

RESL CUSTOMER EXPORT CONTROL AGREEMENT

It is the Radiological and Environmental Sciences Laboratory's (RESL) policy to conduct business in accordance with all applicable U.S. export control laws and regulations. It is also RESL's policy that its Customers comply with U.S. export control laws and regulations. Therefore, Customer agrees to the following:

1. Because products, technical data, and technical assistance (i.e., services) provided to Customer by RESL may be subject to U.S. export control laws and regulations, (i) transactions with certain persons and companies and (ii) the export or reexport of certain types and levels of products, technical data, and services are prohibited or restricted.
2. Customer acknowledges that it is responsible for its own compliance with U.S. export control laws and regulations. Customer further agrees that it assumes the responsibility to obtain all necessary U.S. export licenses or other U.S. governmental authorizations, as well as all liability for the failure to do so.
3. Customer acknowledges that export control requirements may change and that the export or reexport of RESL products, technical data, and services without an export license or other appropriate governmental authorization may result in criminal and/or civil liability.
4. The obligations and requirements described herein shall survive the expiration or termination of any agreement or contract between RESL and Customer.

MaW53 Participating Laboratories

Lab Code	Lab Name	Matrix Code
ADEM01	Alabama Department of Environmental Management	MaW
ADFC99	Abu Dhabi Quality and Conformity Council-Central Testing Lab	MaW
AFOH01	USAFSAM/OEA	MaW
ALIN01	Anatek Labs Inc.	MaW
AMEC99	Amentum Clean Energy Ltd	MaW
ANLB01	Argonne National Laboratory	MaW
AREV01	Framatome - CMC	MaW
ARPL01	Analytical Support Operations - Radiochemical Processing Lab	MaW
ARSL01	ARS	MaW
AY1201	Consolidated Nuclear Security, LLC, ACO Laboratory	MaW
BSCE99	Supreme Council for Environment	MaW
BY1201	Consolidated Nuclear Security, LLC, ACO, Production Laboratory	MaW
CESL01	Lawrence Livermore National Laboratory - EMRL	MaW
CMRC01	Carlsbad Environmental Monitoring and Research Center	MaW
COPS99	Health Canada Radiation Protection Bureau	MaW
DEHS01	Department of Environmental Health & Safety	MaW
EFGS01	Eurofins Frontier Global Sciences, LLC.	MaW
ELIW01	Energy Laboratories, Inc.	MaW
ERAD01	Lawrence Livermore National Laboratory	MaW
ERCL01	Washington State Public Health Laboratories	MaW
ERHD99	National Monitoring Section, Radiation Protection Bureau, Health Canada	MaW
ESDE01	Region 5 EQC Tritium Lab	MaW
ETTP01	MCLinc	MaW
FANR79	Federal Authority for Nuclear Regulation, Environmental Laboratory	MaW
FDHE01	Florida Dept of Health Environmental Laboratory	MaW
FDOH01	Florida Dept. of Health, Mobile Environmental Radiological Lab	MaW
FNAL01	Fermi National Accelerator Laboratory (FermiLab)	MaW
GENE01	GEL Laboratories, LLC	MaW
GPCL01	Georgia Power Company Environmental Laboratory	MaW
HCAL01	Lawrence Livermore National Laboratory	MaW
HECR01	SC Department of Environmental Services	MaW
HPAC99	UKHSA, RCE Glasgow	MaW
IAEA99	International Atomic Energy Agency	MaW
IDOH01	Indiana Department of Health	MaW
IEMA01	Illinois Emergency Management Agency Radiochemistry Laboratory	MaW
ISUE01	ISU Environmental Monitoring Laboratory	MaW
JLNN01	Jefferson Laboratory	MaW
LOCK03	Advanced Test Reactor (ATR) Complex Radioanalytical Laboratory	MaW
LZCA01	ACZ Laboratories, Inc	MaW
MART01	Southern Ohio Cleanup Company LLC	MaW
MART03	Radioactive Material Analysis Laboratory	MaW
MNDH01	Minnesota Department of Health, Public Health Lab. Division	MaW
NARL01	National Analytical Radiation Environmental Laboratory	MaW
NESI01	BWXT-Radioisotope & Analytical Chemistry Laboratory	MaW

NJDH01	New Jersey Dept. of Health, ECLS	MaW
ODHL01	Ohio Department of Health Laboratory	MaW
OTLI01	Pace Analytical National Center for Testing & Innovation	MaW
QUAN01	Eurofins St. Louis	MaW
RJLG01	RJ Lee Group - Columbia Basin Analytical Laboratories (CBAL)	MaW
RPSC01	Radiation Protection Service	MaW
SANC99	RadioAnalysis, South Africa Nuclear Energy Corp.	MaW
SAVA01	Battelle Savannah River Alliance	MaW
SEML01	SRS Environmental Monitoring Laboratory	MaW
SLAC01	SLAC DOE National Accelerator Laboratory	MaW
SLDA01	USACE SLDA FUSRAP Project	MaW
SOUT01	Southwest Research Institute	MaW
SRPD01	Sandia National Laboratories, Radiation Protection Sample Diagnostics	MaW
STRL01	South Texas Project Radiological Laboratory	MaW
TDHL01	Texas Department of State Health Services Laboratory	MaW
TELE01	Teledyne Brown Engineering - Environmental Services	MaW
TELE02	Microbac Laboratories Inc. - Northbrook	MaW
TMAO01	EBERLINE Analytical Corporation	MaW
TNUT01	St. Louis USACE FUSRAP Laboratory	MaW
UNTE01	UniTech-235	MaW
WEST04	PACE ANALYTICAL SERVICES, GREENSBURG	MaW
WIPH01	WI, DPH, Radiation Protection Section	MaW
WSHL01	Wisconsin State Laboratory of Hygiene	MaW
WSTP99	Cavendish Nuclear Limited	MaW
WVDP01	WVDP Environmental Laboratory	MaW
YPGA01	US Army Yuma Proving Ground / Material Analysis Lab	MaW

Laboratories Not Reporting

Lab Code	Lab Name	Matrix Code
ASUK99	AWE (Aldermaston)	MaW
DLEA01	DLE Associates	MaW
FSCL01	Forensic Science Center Lawrence Livermore Laboratory	MaW
MDPH01	MDPH-Division of Radiation Control	MaW
WIPP01	WIPP Laboratories	MaW

Study Reference Values

MAPEP-25-MaW53

Radiological Reference Date: 08/01/2025

Analyte	Ref Value	Ref Unc	Units
Inorganic			
Antimony	0.00017	0.00007	(mg/L)
Arsenic	0.00181	0.00007	(mg/L)
Barium	0.0604	0.0012	(mg/L)
Beryllium	0.443	0.009	(mg/L)
Cadmium	0.308	0.006	(mg/L)
Chromium	0.328	0.007	(mg/L)
Cobalt	0.300	0.006	(mg/L)
Copper	0.428	0.009	(mg/L)
Lead	0.155	0.003	(mg/L)
Mercury	0.0718	0.0014	(mg/L)
Nickel	0.371	0.007	(mg/L)
Selenium	0.394	0.008	(mg/L)
Thallium	0.245	0.005	(mg/L)
Uranium-235	2.35E-4	0.05E-4	(mg/L)
Uranium-238	0.0325	0.0010	(mg/L)
Uranium-Total	0.0327	0.0010	(mg/L)
Vanadium	0.400	0.008	(mg/L)
Zinc	0.564	0.011	(mg/L)

Analyte	Ref Value	Ref Unc	Units
Radiological			
Americium-241	0.361	0.006	(Bq/L)
Cerium-139	26.4	0.3	(Bq/L)
Cesium-134	7.34	0.15	(Bq/L)
Cesium-137	6.7	0.2	(Bq/L)
Cobalt-60	7.24	0.12	(Bq/L)
Hydrogen-3	276	6	(Bq/L)
Iron-55	33.0	0.7	(Bq/L)
Manganese-54	7.95	0.16	(Bq/L)
Nickel-63	25.0	0.5	(Bq/L)
Plutonium-238	0.0019	0.0006	(Bq/L)
Plutonium-239/240	0.0037	0.0007	(Bq/L)
Radium-226	0.407	0.008	(Bq/L)
Strontium-90	3.02	0.06	(Bq/L)
Uranium-234	0.426	0.014	(Bq/L)
Uranium-238	0.404	0.013	(Bq/L)
Zinc-65	23.1	0.5	(Bq/L)

Sample Statistical Summary

MAPEP-25-MaW53

Radiological Reference Date: 08/01/2025

Analyte	T(1)	A(2)	Grand(3) Mean	Std Dev	Ref Value	Ref Unc	Acceptance Range	Units
Inorganic								
Antimony	11	9	0.01154	0.02098	0.00017	0.00007	Sensitivity Evaluation	(mg/L)
Arsenic	11	7	0.00174	0.00022	0.00181	0.00007	0.00127 - 0.00235	(mg/L)
Barium	12	11	0.0619	0.0053	0.0604	0.0012	0.0423 - 0.0785	(mg/L)
Beryllium	12	12	0.432	0.043	0.443	0.009	0.310 - 0.576	(mg/L)
Cadmium	13	13	0.296	0.015	0.308	0.006	0.216 - 0.400	(mg/L)
Chromium	13	13	0.327	0.020	0.328	0.007	0.230 - 0.426	(mg/L)
Cobalt	12	12	0.287	0.013	0.300	0.006	0.210 - 0.390	(mg/L)
Copper	13	13	0.408	0.026	0.428	0.009	0.300 - 0.556	(mg/L)
Lead	13	13	0.155	0.012	0.155	0.003	0.109 - 0.202	(mg/L)
Mercury	12	11	0.0716	0.0047	0.0718	0.0014	0.0503 - 0.0933	(mg/L)
Nickel	13	13	0.355	0.021	0.371	0.007	0.260 - 0.482	(mg/L)
Selenium	12	12	0.363	0.026	0.394	0.008	0.276 - 0.512	(mg/L)
Technetium-99	3	2					False Positive Test	(mg/L)
Thallium	12	12	0.242	0.014	0.245	0.005	0.172 - 0.319	(mg/L)
Uranium-235	15	15	2.30E-4	2.20E-5	2.35E-4	0.05E-4	1.65E-4 - 3.06E-4	(mg/L)
Uranium-238	15	15	0.0322	0.0027	0.0325	0.0010	0.0228 - 0.0423	(mg/L)
Uranium-Total	17	17	0.0326	0.0016	0.0327	0.0010	0.0229 - 0.0425	(mg/L)
Vanadium	12	12	0.408	0.021	0.400	0.008	0.280 - 0.520	(mg/L)
Zinc	13	13	0.520	0.031	0.564	0.011	0.395 - 0.733	(mg/L)

Analyte	T(1)	A(2)	Grand(3) Mean	Std Dev	Ref Value	Ref Unc	Acceptance Range	Units
Radiological								
Americium-241	32	29	0.351	0.032	0.361	0.006	0.253 - 0.469	(Bq/L)
Cerium-139	32	31	26.5	1.5	26.4	0.3	18.5 - 34.3	(Bq/L)
Cesium-134	56	54	6.83	0.52	7.34	0.15	5.14 - 9.54	(Bq/L)
Cesium-137	56	55	6.7	0.3	6.7	0.2	4.7 - 8.7	(Bq/L)
Cobalt-57	47	46					False Positive Test	(Bq/L)
Cobalt-60	56	54	7.21	0.41	7.24	0.12	5.07 - 9.41	(Bq/L)
Hydrogen-3	40	38	273	24	276	6	193 - 359	(Bq/L)
Iron-55	5	5			33.0	0.7	23.1 - 42.9	(Bq/L)
Manganese-54	56	55	7.95	0.43	7.95	0.16	5.57 - 10.34	(Bq/L)
Nickel-63	11	7	25.0	3.6	25.0	0.5	17.5 - 32.5	(Bq/L)
Plutonium-238	28	25	0.0040	0.0094	0.0019	0.0006	Sensitivity Evaluation	(Bq/L)
Plutonium-239/240	28	22	0.0062	0.0055	0.0037	0.0007	Sensitivity Evaluation	(Bq/L)
Potassium-40	50	37					False Positive Test	(Bq/L)
Radium-226	22	17	0.395	0.040	0.407	0.008	0.285 - 0.529	(Bq/L)
Strontium-90	29	25	2.87	0.29	3.02	0.06	2.11 - 3.93	(Bq/L)
Technetium-99	17	16					False Positive Test	(Bq/L)
Uranium-234	30	28	0.415	0.033	0.426	0.014	0.298 - 0.554	(Bq/L)
Uranium-238	32	31	0.396	0.041	0.404	0.013	0.283 - 0.525	(Bq/L)
Zinc-65	56	55	23.3	1.6	23.1	0.5	16.2 - 30.0	(Bq/L)

Note: (1) T = Total number of laboratories reporting analyte.
(2) A = Number of laboratories with 'Acceptable' performance.
(3) Mean excludes values derived as total metals and values indicated as "Not Acceptable".

Results Flags:

A = Result acceptable.....|Bias| ≤ 20%

W = Result acceptable with warning.....20% < |Bias| ≤ 30%

N = Result not acceptable.....|Bias| > 30%

RW = Report Warning

NR = Not Reported

Uncertainty Flags:

N = NOT ACCEPTABLE.....RP < 2%

A = ACCEPTABLE.....2% ≤ RP ≤ 15%

W = ACCEPTABLE WITH WARNING.....15% ≤ RP ≤ 30%

N = NOT ACCEPTABLE.....RP > 30%

Relative Precision (RP) = (Reported Uncertainty / Reported Result) x 100

Flag Summary Report

MAPEP-25-MaW53

Inorganic

Analyte	A	W	RW	N
Antimony	9			2
Arsenic	7			4
Barium	11			1
Beryllium	12			
Cadmium	13			
Chromium	13			
Cobalt	12			
Copper	13			
Lead	12	1		
Mercury	11			1
Nickel	13			
Selenium	11	1		
Thallium	12			
Uranium-Total	17			
Uranium-235	14	1		
Uranium-238	14	1		
Vanadium	12			
Zinc	12	1		
Technetium-99	2			1

Radiological

Analyte	A	W	RW	N
Americium-241	28	1		3
Cerium-139	31			1
Cesium-134	51	3		
Cesium-137	55			1
Cobalt-57	46			10
Cobalt-60	54			2
Hydrogen-3	37	1		2
Iron-55	2	3		
Manganese-54	55			1
Nickel-63	6	1		4
Plutonium-238	25			3
Plutonium-239/240	22			6
Potassium-40	37			18
Radium-226	16	1		5
Strontium-90	24	1		4
Technetium-99	16			2
Uranium-234	27	1		2
Uranium-238	27	4		1
Zinc-65	55			1



Laboratory Results For MAPEP-25-MaW53

(ADEM01) Alabama Department of Environmental Management
1350 Coliseum Blvd.
Montgomery, AL 36110

Inorganic							Units: (mg/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Antimony	NR	0.00017				Sensitivity Evaluation		
Arsenic	NR	0.00181				0.00127 - 0.00235		
Barium	NR	0.0604				0.0423 - 0.0785		
Beryllium	NR	0.443				0.310 - 0.576		
Cadmium	NR	0.308				0.216 - 0.400		
Chromium	NR	0.328				0.230 - 0.426		
Cobalt	NR	0.300				0.210 - 0.390		
Copper	NR	0.428				0.300 - 0.556		
Lead	NR	0.155				0.109 - 0.202		
Mercury	NR	0.0718				0.0503 - 0.0933		
Nickel	NR	0.371				0.260 - 0.482		
Selenium	NR	0.394				0.276 - 0.512		
Technetium-99	NR					False Positive Test		
Thallium	NR	0.245				0.172 - 0.319		
Uranium-235	NR	2.35E-4				1.65E-4 - 3.06E-4		
Uranium-238	NR	0.0325				0.0228 - 0.0423		
Uranium-Total	NR	0.0327				0.0229 - 0.0425		
Vanadium	NR	0.400				0.280 - 0.520		
Zinc	NR	0.564				0.395 - 0.733		

Radiological							Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	NR	0.361				0.253 - 0.469		
Cerium-139	NR	26.4				18.5 - 34.3		
Cesium-134	6.540	7.34	A		-10.9	5.14 - 9.54	0.349	A
Cesium-137	6.790	6.7	A		1.3	4.7 - 8.7	0.328	A
Cobalt-57	NR		N	(11)		False Positive Test		
Cobalt-60	7.270	7.24	A		0.4	5.07 - 9.41	0.241	A
Hydrogen-3	NR	276				193 - 359		
Iron-55	NR	33.0				23.1 - 42.9		
Manganese-54	8.440	7.95	A		6.2	5.57 - 10.34	0.587	A
Nickel-63	NR	25.0				17.5 - 32.5		
Plutonium-238	NR	0.0019				Sensitivity Evaluation		
Plutonium-239/240	NR	0.0037				Sensitivity Evaluation		
Potassium-40	0.951		A			False Positive Test	0.601	

Radiological						Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Radium-226	NR	0.407				0.285 - 0.529	
Strontium-90	NR	3.02				2.11 - 3.93	
Technetium-99	NR					False Positive Test	
Uranium-234	NR	0.426				0.298 - 0.554	
Uranium-238	NR	0.404				0.283 - 0.525	
Zinc-65	24.400	23.1	A		5.6	16.2 - 30.0	1.310 A

Radiological Reference Date: August 1, 2025

Results Flags:

A = Result acceptable.....|Bias| <= 20%

W = Result acceptable with warning.....20% < |Bias| <= 30%

N = Result not acceptable.....|Bias| > 30%

RW = Report Warning

NR = Not Reported

Uncertainty Flags:

N = NOT ACCEPTABLE.....RP < 2%

A = ACCEPTABLE.....2% <= RP <= 15%

W = ACCEPTABLE WITH WARNING.....15% <= RP <= 30%

N = NOT ACCEPTABLE.....RP > 30%

Relative Precision (RP) = (Reported Uncertainty / Reported Result) x 100

Notes:

(1) = False Positive

(2) = False Negative

(4) = Sensitivity Evaluation

(6) = Not Evaluated

(11) = False Positive Test, Result Not Reported

(17) = NOT DETECTED - reported a statistically zero result

(18) = Sensitivity Evaluation, Value Not Reported

(25) = Result not reported with other gamma results

(28) = Not Reporting Previously Reported Analyte

(29) = Statistically significant negative value at 3 standard deviations



Laboratory Results For MAPEP-25-MaW53

(ADFC99) Abu Dhabi Quality and Conformity Council-Central Testing Lab

Radiation Lab

Abu Dhabi, Abu Dhabi 853

Inorganic							Units: (mg/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Antimony	NR	0.00017				Sensitivity Evaluation		
Arsenic	NR	0.00181				0.00127 - 0.00235		
Barium	NR	0.0604				0.0423 - 0.0785		
Beryllium	NR	0.443				0.310 - 0.576		
Cadmium	NR	0.308				0.216 - 0.400		
Chromium	NR	0.328				0.230 - 0.426		
Cobalt	NR	0.300				0.210 - 0.390		
Copper	NR	0.428				0.300 - 0.556		
Lead	NR	0.155				0.109 - 0.202		
Mercury	NR	0.0718				0.0503 - 0.0933		
Nickel	NR	0.371				0.260 - 0.482		
Selenium	NR	0.394				0.276 - 0.512		
Technetium-99	NR					False Positive Test		
Thallium	NR	0.245				0.172 - 0.319		
Uranium-235	NR	2.35E-4				1.65E-4 - 3.06E-4		
Uranium-238	NR	0.0325				0.0228 - 0.0423		
Uranium-Total	NR	0.0327				0.0229 - 0.0425		
Vanadium	NR	0.400				0.280 - 0.520		
Zinc	NR	0.564				0.395 - 0.733		

Radiological							Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	NR	0.361				0.253 - 0.469		
Cerium-139	25.94	26.4	A		-1.7	18.5 - 34.3	2.62	A
Cesium-134	6.69	7.34	A		-8.9	5.14 - 9.54	0.4	A
Cesium-137	6.91	6.7	A		3.1	4.7 - 8.7	0.60	A
Cobalt-57	NR		N	(11)		False Positive Test		
Cobalt-60	6.95	7.24	A		-4.0	5.07 - 9.41	0.44	A
Hydrogen-3	279	276	A		1.1	193 - 359	26	A
Iron-55	39.8	33.0	W		20.6	23.1 - 42.9	2.8	A
Manganese-54	7.90	7.95	A		-0.6	5.57 - 10.34	0.84	A
Nickel-63	25.8	25.0	A		3.2	17.5 - 32.5	1.10	A
Plutonium-238	NR	0.0019	N	(18)		Sensitivity Evaluation		
Plutonium-239/240	NR	0.0037	N	(18)		Sensitivity Evaluation		
Potassium-40	NR		N	(11)		False Positive Test		

Radiological						Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Radium-226	NR	0.407				0.285 - 0.529	
Strontium-90	3.39	3.02	A		12.3	2.11 - 3.93	0.30 A
Technetium-99	NR					False Positive Test	
Uranium-234	0.412	0.426	A		-3.3	0.298 - 0.554	0.051 A
Uranium-238	0.384	0.404	A		-5.0	0.283 - 0.525	0.049 A
Zinc-65	23.46	23.1	A		1.6	16.2 - 30.0	2.0 A

Radiological Reference Date: August 1, 2025

Results Flags:

A = Result acceptable.....|Bias| ≤ 20%

W = Result acceptable with warning.....20% < |Bias| ≤ 30%

N = Result not acceptable.....|Bias| > 30%

RW = Report Warning

NR = Not Reported

Uncertainty Flags:

N = NOT ACCEPTABLE.....RP < 2%

A = ACCEPTABLE.....2% ≤ RP ≤ 15%

W = ACCEPTABLE WITH WARNING.....15% ≤ RP ≤ 30%

N = NOT ACCEPTABLE.....RP > 30%

Relative Precision (RP) = (Reported Uncertainty / Reported Result) x 100

Notes:

- (1) = False Positive
- (2) = False Negative
- (4) = Sensitivity Evaluation
- (6) = Not Evaluated
- (11) = False Positive Test, Result Not Reported
- (17) = NOT DETECTED - reported a statistically zero result
- (18) = Sensitivity Evaluation, Value Not Reported
- (25) = Result not reported with other gamma results
- (28) = Not Reporting Previously Reported Analyte
- (29) = Statistically significant negative value at 3 standard deviations



Laboratory Results For MAPEP-25-MaW53

(AFOH01) USAFSAM/OEA

2510 Fifth Street, Area B

Wright-Patterson AFB, OH 45433-7913

Inorganic							Units: (mg/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Antimony	NR	0.00017				Sensitivity Evaluation		
Arsenic	NR	0.00181				0.00127 - 0.00235		
Barium	NR	0.0604				0.0423 - 0.0785		
Beryllium	NR	0.443				0.310 - 0.576		
Cadmium	NR	0.308				0.216 - 0.400		
Chromium	NR	0.328				0.230 - 0.426		
Cobalt	NR	0.300				0.210 - 0.390		
Copper	NR	0.428				0.300 - 0.556		
Lead	NR	0.155				0.109 - 0.202		
Mercury	NR	0.0718				0.0503 - 0.0933		
Nickel	NR	0.371				0.260 - 0.482		
Selenium	NR	0.394				0.276 - 0.512		
Technetium-99	NR					False Positive Test		
Thallium	NR	0.245				0.172 - 0.319		
Uranium-235	0.000234	2.35E-4	A		-0.4	1.65E-4 - 3.06E-4	0.000005	A
Uranium-238	0.03128	0.0325	A		-3.8	0.0228 - 0.0423	0.00063	A
Uranium-Total	0.03151	0.0327	A		-3.6	0.0229 - 0.0425	0.00063	N
Vanadium	NR	0.400				0.280 - 0.520		
Zinc	NR	0.564				0.395 - 0.733		

Radiological							Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	0.318	0.361	A		-11.9	0.253 - 0.469	0.015	A
Cerium-139	25.0	26.4	A		-5.3	18.5 - 34.3	2.7	A
Cesium-134	6.68	7.34	A		-9.0	5.14 - 9.54	0.24	A
Cesium-137	6.20	6.7	A		-7.5	4.7 - 8.7	0.19	A
Cobalt-57	-0.03		A			False Positive Test	0.07	
Cobalt-60	6.66	7.24	A		-8.0	5.07 - 9.41	0.17	A
Hydrogen-3	224	276	A		-18.8	193 - 359	26	A
Iron-55	NR	33.0				23.1 - 42.9		
Manganese-54	7.13	7.95	A		-10.3	5.57 - 10.34	0.20	A
Nickel-63	NR	25.0				17.5 - 32.5		
Plutonium-238	0.0007	0.0019	A	(17)		Sensitivity Evaluation	0.0005	
Plutonium-239/240	0.0043	0.0037	A			Sensitivity Evaluation	0.0011	
Potassium-40	-0.3		A			False Positive Test	0.3	

Radiological						Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Radium-226	0.381	0.407	A		-6.4	0.285 - 0.529	0.036 A
Strontium-90	2.71	3.02	A		-10.3	2.11 - 3.93	0.11 A
Technetium-99	NR					False Positive Test	
Uranium-234	0.424	0.426	A		-0.5	0.298 - 0.554	0.019 A
Uranium-238	0.409	0.404	A		1.2	0.283 - 0.525	0.018 A
Zinc-65	21.06	23.1	A		-8.8	16.2 - 30.0	0.64 A

Radiological Reference Date: August 1, 2025

Results Flags:

A = Result acceptable.....|Bias| ≤ 20%

W = Result acceptable with warning.....20% < |Bias| ≤ 30%

N = Result not acceptable.....|Bias| > 30%

RW = Report Warning

NR = Not Reported

Uncertainty Flags:

N = NOT ACCEPTABLE.....RP < 2%

A = ACCEPTABLE.....2% ≤ RP ≤ 15%

W = ACCEPTABLE WITH WARNING.....15% ≤ RP ≤ 30%

N = NOT ACCEPTABLE.....RP > 30%

Relative Precision (RP) = (Reported Uncertainty / Reported Result) x 100

Notes:

- (1) = False Positive
- (2) = False Negative
- (4) = Sensitivity Evaluation
- (6) = Not Evaluated
- (11) = False Positive Test, Result Not Reported
- (17) = NOT DETECTED - reported a statistically zero result
- (18) = Sensitivity Evaluation, Value Not Reported
- (25) = Result not reported with other gamma results
- (28) = Not Reporting Previously Reported Analyte
- (29) = Statistically significant negative value at 3 standard deviations



Laboratory Results For MAPEP-25-MaW53

(ALIN01) Anatek Labs Inc.

504 E. Sprague Ave Ste D

Spokane, WA 99202

Inorganic							Units: (mg/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Antimony	NR	0.00017				Sensitivity Evaluation		
Arsenic	NR	0.00181				0.00127 - 0.00235		
Barium	NR	0.0604				0.0423 - 0.0785		
Beryllium	NR	0.443				0.310 - 0.576		
Cadmium	NR	0.308				0.216 - 0.400		
Chromium	NR	0.328				0.230 - 0.426		
Cobalt	NR	0.300				0.210 - 0.390		
Copper	NR	0.428				0.300 - 0.556		
Lead	NR	0.155				0.109 - 0.202		
Mercury	NR	0.0718				0.0503 - 0.0933		
Nickel	NR	0.371				0.260 - 0.482		
Selenium	NR	0.394				0.276 - 0.512		
Technetium-99	NR					False Positive Test		
Thallium	NR	0.245				0.172 - 0.319		
Uranium-235	NR	2.35E-4				1.65E-4 - 3.06E-4		
Uranium-238	NR	0.0325				0.0228 - 0.0423		
Uranium-Total	NR	0.0327				0.0229 - 0.0425		
Vanadium	NR	0.400				0.280 - 0.520		
Zinc	NR	0.564				0.395 - 0.733		

Radiological							Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	NR	0.361				0.253 - 0.469		
Cerium-139	NR	26.4				18.5 - 34.3		
Cesium-134	NR	7.34				5.14 - 9.54		
Cesium-137	NR	6.7				4.7 - 8.7		
Cobalt-57	NR					False Positive Test		
Cobalt-60	NR	7.24				5.07 - 9.41		
Hydrogen-3	NR	276				193 - 359		
Iron-55	NR	33.0				23.1 - 42.9		
Manganese-54	NR	7.95				5.57 - 10.34		
Nickel-63	NR	25.0				17.5 - 32.5		
Plutonium-238	NR	0.0019				Sensitivity Evaluation		
Plutonium-239/240	NR	0.0037				Sensitivity Evaluation		
Potassium-40	NR					False Positive Test		

Radiological						Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Radium-226	.3774	0.407	A		-7.3	0.285 - 0.529	0.0270 A
Strontium-90	NR	3.02				2.11 - 3.93	
Technetium-99	NR					False Positive Test	
Uranium-234	NR	0.426				0.298 - 0.554	
Uranium-238	NR	0.404				0.283 - 0.525	
Zinc-65	NR	23.1				16.2 - 30.0	

Radiological Reference Date: August 1, 2025

Results Flags:

A = Result acceptable.....|Bias| <= 20%

W = Result acceptable with warning.....20% < |Bias| <= 30%

N = Result not acceptable.....|Bias| > 30%

RW = Report Warning

NR = Not Reported

Uncertainty Flags:

N = NOT ACCEPTABLE.....RP < 2%

A = ACCEPTABLE.....2% <= RP <= 15%

W = ACCEPTABLE WITH WARNING.....15% <= RP <= 30%

N = NOT ACCEPTABLE.....RP > 30%

Relative Precision (RP) = (Reported Uncertainty / Reported Result) x 100

Notes:

(1) = False Positive

(2) = False Negative

(4) = Sensitivity Evaluation

(6) = Not Evaluated

(11) = False Positive Test, Result Not Reported

(17) = NOT DETECTED - reported a statistically zero result

(18) = Sensitivity Evaluation, Value Not Reported

(25) = Result not reported with other gamma results

(28) = Not Reporting Previously Reported Analyte

(29) = Statistically significant negative value at 3 standard deviations



Laboratory Results For MAPEP-25-MaW53

(AMEC99) Amentum Clean Energy Ltd

612 Faraday Street

Birchwood Park, Warrington WA3 6GN

Inorganic							Units: (mg/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Antimony	NR	0.00017				Sensitivity Evaluation		
Arsenic	NR	0.00181				0.00127 - 0.00235		
Barium	NR	0.0604				0.0423 - 0.0785		
Beryllium	NR	0.443				0.310 - 0.576		
Cadmium	NR	0.308				0.216 - 0.400		
Chromium	NR	0.328				0.230 - 0.426		
Cobalt	NR	0.300				0.210 - 0.390		
Copper	NR	0.428				0.300 - 0.556		
Lead	NR	0.155				0.109 - 0.202		
Mercury	NR	0.0718				0.0503 - 0.0933		
Nickel	NR	0.371				0.260 - 0.482		
Selenium	NR	0.394				0.276 - 0.512		
Technetium-99	NR					False Positive Test		
Thallium	NR	0.245				0.172 - 0.319		
Uranium-235	NR	2.35E-4				1.65E-4 - 3.06E-4		
Uranium-238	NR	0.0325				0.0228 - 0.0423		
Uranium-Total	NR	0.0327				0.0229 - 0.0425		
Vanadium	NR	0.400				0.280 - 0.520		
Zinc	NR	0.564				0.395 - 0.733		

Radiological							Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	0.332	0.361	A		-8.0	0.253 - 0.469	0.018	A
Cerium-139	24.70	26.4	A		-6.4	18.5 - 34.3	0.70	A
Cesium-134	6.75	7.34	A		-8.0	5.14 - 9.54	0.20	A
Cesium-137	6.70	6.7	A		0.0	4.7 - 8.7	0.21	A
Cobalt-57	0.067		A			False Positive Test	0.041	
Cobalt-60	7.04	7.24	A		-2.8	5.07 - 9.41	0.22	A
Hydrogen-3	292	276	A		5.8	193 - 359	12	A
Iron-55	41.1	33.0	W		24.5	23.1 - 42.9	3.0	A
Manganese-54	7.83	7.95	A		-1.5	5.57 - 10.34	0.26	A
Nickel-63	23.1	25.0	A		-7.6	17.5 - 32.5	1.5	A
Plutonium-238	0.0022	0.0019	A	(17)		Sensitivity Evaluation	0.0013	
Plutonium-239/240	0.0209	0.0037	N	(4)		Sensitivity Evaluation	0.0039	
Potassium-40	1.04		A			False Positive Test	0.82	

Radiological						Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Radium-226	0.363	0.407	A		-10.8	0.285 - 0.529	0.042 A
Strontium-90	2.62	3.02	A		-13.2	2.11 - 3.93	0.28 A
Technetium-99	0.0050		A			False Positive Test	0.0035
Uranium-234	0.403	0.426	A		-5.4	0.298 - 0.554	0.021 A
Uranium-238	0.410	0.404	A		1.5	0.283 - 0.525	0.021 A
Zinc-65	22.74	23.1	A		-1.6	16.2 - 30.0	0.70 A

Radiological Reference Date: August 1, 2025

Results Flags:

A = Result acceptable.....|Bias| <= 20%

W = Result acceptable with warning.....20% < |Bias| <= 30%

N = Result not acceptable.....|Bias| > 30%

RW = Report Warning

NR = Not Reported

Uncertainty Flags:

N = NOT ACCEPTABLE.....RP < 2%

A = ACCEPTABLE.....2% <= RP <= 15%

W = ACCEPTABLE WITH WARNING.....15% <= RP <= 30%

N = NOT ACCEPTABLE.....RP > 30%

Relative Precision (RP) = (Reported Uncertainty / Reported Result) x 100

Notes:

(1) = False Positive

(2) = False Negative

(4) = Sensitivity Evaluation

(6) = Not Evaluated

(11) = False Positive Test, Result Not Reported

(17) = NOT DETECTED - reported a statistically zero result

(18) = Sensitivity Evaluation, Value Not Reported

(25) = Result not reported with other gamma results

(28) = Not Reporting Previously Reported Analyte

(29) = Statistically significant negative value at 3 standard deviations



Laboratory Results For MAPEP-25-MaW53

(ANLB01) Argonne National Laboratory

9700 S. Cass Ave

Argonne, IL 60439

Inorganic							Units: (mg/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Antimony	NR	0.00017				Sensitivity Evaluation		
Arsenic	NR	0.00181				0.00127 - 0.00235		
Barium	NR	0.0604				0.0423 - 0.0785		
Beryllium	NR	0.443				0.310 - 0.576		
Cadmium	NR	0.308				0.216 - 0.400		
Chromium	NR	0.328				0.230 - 0.426		
Cobalt	NR	0.300				0.210 - 0.390		
Copper	NR	0.428				0.300 - 0.556		
Lead	NR	0.155				0.109 - 0.202		
Mercury	NR	0.0718				0.0503 - 0.0933		
Nickel	NR	0.371				0.260 - 0.482		
Selenium	NR	0.394				0.276 - 0.512		
Technetium-99	NR					False Positive Test		
Thallium	NR	0.245				0.172 - 0.319		
Uranium-235	NR	2.35E-4				1.65E-4 - 3.06E-4		
Uranium-238	NR	0.0325				0.0228 - 0.0423		
Uranium-Total	NR	0.0327				0.0229 - 0.0425		
Vanadium	NR	0.400				0.280 - 0.520		
Zinc	NR	0.564				0.395 - 0.733		

Radiological							Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	0.0330	0.361	N		-90.9	0.253 - 0.469	0.026	N
Cerium-139	NR	26.4				18.5 - 34.3		
Cesium-134	7.03	7.34	A		-4.2	5.14 - 9.54	0.71	A
Cesium-137	7.09	6.7	A		5.8	4.7 - 8.7	0.364	A
Cobalt-57	0.09		A			False Positive Test	.244	
Cobalt-60	7.61	7.24	A		5.1	5.07 - 9.41	0.30	A
Hydrogen-3	297.34	276	A		7.7	193 - 359	6.02	A
Iron-55	NR	33.0				23.1 - 42.9		
Manganese-54	8.55	7.95	A		7.5	5.57 - 10.34	0.440	A
Nickel-63	NR	25.0				17.5 - 32.5		
Plutonium-238	0.003	0.0019	A	(17)		Sensitivity Evaluation	0.002	
Plutonium-239/240	0.005	0.0037	A	(17)		Sensitivity Evaluation	0.002	
Potassium-40	NR			(6)		False Positive Test		

Radiological						Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Radium-226	NR	0.407				0.285 - 0.529	
Strontium-90	2.78	3.02	A		-7.9	2.11 - 3.93	0.084 A
Technetium-99	NR					False Positive Test	
Uranium-234	0.390	0.426	A		-8.5	0.298 - 0.554	0.035 A
Uranium-238	0.358	0.404	A		-11.4	0.283 - 0.525	0.026 A
Zinc-65	24.80	23.1	A		7.4	16.2 - 30.0	1.02 A

Radiological Reference Date: August 1, 2025

Results Flags:

A = Result acceptable.....|Bias| ≤ 20%

W = Result acceptable with warning.....20% < |Bias| ≤ 30%

N = Result not acceptable.....|Bias| > 30%

RW = Report Warning

NR = Not Reported

Uncertainty Flags:

N = NOT ACCEPTABLE.....RP < 2%

A = ACCEPTABLE.....2% ≤ RP ≤ 15%

W = ACCEPTABLE WITH WARNING.....15% ≤ RP ≤ 30%

N = NOT ACCEPTABLE.....RP > 30%

Relative Precision (RP) = (Reported Uncertainty / Reported Result) x 100

Notes:

- (1) = False Positive
- (2) = False Negative
- (4) = Sensitivity Evaluation
- (6) = Not Evaluated
- (11) = False Positive Test, Result Not Reported
- (17) = NOT DETECTED - reported a statistically zero result
- (18) = Sensitivity Evaluation, Value Not Reported
- (25) = Result not reported with other gamma results
- (28) = Not Reporting Previously Reported Analyte
- (29) = Statistically significant negative value at 3 standard deviations



Laboratory Results For MAPEP-25-MaW53

(AREV01) Framatome - CMC

1724 Mount Athos Road

Lynchburg, VA 24504

Inorganic							Units: (mg/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Antimony	0.025	0.00017	A	(17)		Sensitivity Evaluation	0.025	
Arsenic	0.025	0.00181	N		1281.2	0.00127 - 0.00235	0.025	N
Barium	0.07	0.0604	A		15.9	0.0423 - 0.0785	0.01	A
Beryllium	0.53	0.443	A		19.6	0.310 - 0.576	0.05	A
Cadmium	0.30	0.308	A		-2.6	0.216 - 0.400	0.03	A
Chromium	0.37	0.328	A		12.8	0.230 - 0.426	0.04	A
Cobalt	0.30	0.300	A		0.0	0.210 - 0.390	0.03	A
Copper	0.47	0.428	A		9.8	0.300 - 0.556	0.05	A
Lead	0.16	0.155	A		3.2	0.109 - 0.202	0.02	A
Mercury	0.07	0.0718	A		-2.5	0.0503 - 0.0933	0.01	A
Nickel	0.40	0.371	A		7.8	0.260 - 0.482	0.04	A
Selenium	0.38	0.394	A		-3.6	0.276 - 0.512	0.04	A
Technetium-99	NR					False Positive Test		
Thallium	0.26	0.245	A		6.1	0.172 - 0.319	0.03	A
Uranium-235	NR	2.35E-4				1.65E-4 - 3.06E-4		
Uranium-238	NR	0.0325				0.0228 - 0.0423		
Uranium-Total	NR	0.0327				0.0229 - 0.0425		
Vanadium	0.45	0.400	A		12.5	0.280 - 0.520	0.05	A
Zinc	0.50	0.564	A		-11.3	0.395 - 0.733	0.05	A

Radiological							Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	NR	0.361				0.253 - 0.469		
Cerium-139	26	26.4	A		-1.5	18.5 - 34.3	0.94	A
Cesium-134	7.15	7.34	A		-2.6	5.14 - 9.54	0.12	N
Cesium-137	6.46	6.7	A		-3.6	4.7 - 8.7	0.23	A
Cobalt-57	0.12		A			False Positive Test	0.12	
Cobalt-60	7.94	7.24	A		9.7	5.07 - 9.41	0.19	A
Hydrogen-3	NR	276				193 - 359		
Iron-55	NR	33.0				23.1 - 42.9		
Manganese-54	7.77	7.95	A		-2.3	5.57 - 10.34	0.38	A
Nickel-63	NR	25.0				17.5 - 32.5		
Plutonium-238	NR	0.0019				Sensitivity Evaluation		
Plutonium-239/240	NR	0.0037				Sensitivity Evaluation		
Potassium-40	3.94		A			False Positive Test	3.94	

Radiological						Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Radium-226	NR	0.407				0.285 - 0.529	
Strontium-90	NR	3.02				2.11 - 3.93	
Technetium-99	NR					False Positive Test	
Uranium-234	NR	0.426				0.298 - 0.554	
Uranium-238	NR	0.404				0.283 - 0.525	
Zinc-65	24	23.1	A		3.9	16.2 - 30.0	0.89 A

Radiological Reference Date: August 1, 2025

Results Flags:

A = Result acceptable.....|Bias| <= 20%

W = Result acceptable with warning.....20% < |Bias| <= 30%

N = Result not acceptable.....|Bias| > 30%

RW = Report Warning

NR = Not Reported

Uncertainty Flags:

N = NOT ACCEPTABLE.....RP < 2%

A = ACCEPTABLE.....2% <= RP <= 15%

W = ACCEPTABLE WITH WARNING.....15% <= RP <= 30%

N = NOT ACCEPTABLE.....RP > 30%

Relative Precision (RP) = (Reported Uncertainty / Reported Result) x 100

Notes:

(1) = False Positive

(2) = False Negative

(4) = Sensitivity Evaluation

(6) = Not Evaluated

(11) = False Positive Test, Result Not Reported

(17) = NOT DETECTED - reported a statistically zero result

(18) = Sensitivity Evaluation, Value Not Reported

(25) = Result not reported with other gamma results

(28) = Not Reporting Previously Reported Analyte

(29) = Statistically significant negative value at 3 standard deviations



Laboratory Results For MAPEP-25-MaW53

(ARPL01) Analytical Support Operations - Radiochemical Processing Lab

PO Box 999

Richland, WA 99354

Inorganic							Units: (mg/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Antimony	NR	0.00017				Sensitivity Evaluation		
Arsenic	NR	0.00181				0.00127 - 0.00235		
Barium	NR	0.0604				0.0423 - 0.0785		
Beryllium	NR	0.443				0.310 - 0.576		
Cadmium	NR	0.308				0.216 - 0.400		
Chromium	NR	0.328				0.230 - 0.426		
Cobalt	NR	0.300				0.210 - 0.390		
Copper	NR	0.428				0.300 - 0.556		
Lead	NR	0.155				0.109 - 0.202		
Mercury	NR	0.0718				0.0503 - 0.0933		
Nickel	NR	0.371				0.260 - 0.482		
Selenium	NR	0.394				0.276 - 0.512		
Technetium-99	NR					False Positive Test		
Thallium	NR	0.245				0.172 - 0.319		
Uranium-235	NR	2.35E-4				1.65E-4 - 3.06E-4		
Uranium-238	NR	0.0325				0.0228 - 0.0423		
Uranium-Total	NR	0.0327				0.0229 - 0.0425		
Vanadium	NR	0.400				0.280 - 0.520		
Zinc	NR	0.564				0.395 - 0.733		

Radiological							Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	0.266	0.361	W		-26.3	0.253 - 0.469	0.013	A
Cerium-139	NR	26.4				18.5 - 34.3		
Cesium-134	6.99	7.34	A		-4.8	5.14 - 9.54	0.29	A
Cesium-137	6.64	6.7	A		-0.9	4.7 - 8.7	0.20	A
Cobalt-57	-0.04		A			False Positive Test	0.42	
Cobalt-60	7.30	7.24	A		0.8	5.07 - 9.41	0.42	A
Hydrogen-3	515.2	276	N		86.7	193 - 359	46.6	A
Iron-55	NR	33.0				23.1 - 42.9		
Manganese-54	7.60	7.95	A		-4.4	5.57 - 10.34	0.23	A
Nickel-63	NR	25.0				17.5 - 32.5		
Plutonium-238	0.003	0.0019	A	(17)		Sensitivity Evaluation	0.016	
Plutonium-239/240	0.008	0.0037	A	(17)		Sensitivity Evaluation	0.004	
Potassium-40	-0.1		A			False Positive Test	3.6	

Radiological						Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Radium-226	NR	0.407				0.285 - 0.529	
Strontium-90	2.04	3.02	N		-32.5	2.11 - 3.93	0.06 A
Technetium-99	0.46		A			False Positive Test	0.20
Uranium-234	0.283	0.426	N		-33.6	0.298 - 0.554	0.060 W
Uranium-238	0.290	0.404	W		-28.2	0.283 - 0.525	0.014 A
Zinc-65	23.40	23.1	A		1.3	16.2 - 30.0	0.90 A

Radiological Reference Date: August 1, 2025

Results Flags:

A = Result acceptable.....|Bias| <= 20%

W = Result acceptable with warning.....20% < |Bias| <= 30%

N = Result not acceptable.....|Bias| > 30%

RW = Report Warning

NR = Not Reported

Uncertainty Flags:

N = NOT ACCEPTABLE.....RP < 2%

A = ACCEPTABLE.....2% <= RP <= 15%

W = ACCEPTABLE WITH WARNING.....15% <= RP <= 30%

N = NOT ACCEPTABLE.....RP > 30%

Relative Precision (RP) = (Reported Uncertainty / Reported Result) x 100

Notes:

(1) = False Positive

(2) = False Negative

(4) = Sensitivity Evaluation

(6) = Not Evaluated

(11) = False Positive Test, Result Not Reported

(17) = NOT DETECTED - reported a statistically zero result

(18) = Sensitivity Evaluation, Value Not Reported

(25) = Result not reported with other gamma results

(28) = Not Reporting Previously Reported Analyte

(29) = Statistically significant negative value at 3 standard deviations



Laboratory Results For MAPEP-25-MaW53

(ARSL01) ARS

2609 North River Road

Port Allen, LA 70767

Inorganic							Units: (mg/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Antimony	NR	0.00017				Sensitivity Evaluation		
Arsenic	NR	0.00181				0.00127 - 0.00235		
Barium	NR	0.0604				0.0423 - 0.0785		
Beryllium	NR	0.443				0.310 - 0.576		
Cadmium	NR	0.308				0.216 - 0.400		
Chromium	NR	0.328				0.230 - 0.426		
Cobalt	NR	0.300				0.210 - 0.390		
Copper	NR	0.428				0.300 - 0.556		
Lead	NR	0.155				0.109 - 0.202		
Mercury	NR	0.0718				0.0503 - 0.0933		
Nickel	NR	0.371				0.260 - 0.482		
Selenium	NR	0.394				0.276 - 0.512		
Technetium-99	NR					False Positive Test		
Thallium	NR	0.245				0.172 - 0.319		
Uranium-235	NR	2.35E-4				1.65E-4 - 3.06E-4		
Uranium-238	NR	0.0325				0.0228 - 0.0423		
Uranium-Total	NR	0.0327				0.0229 - 0.0425		
Vanadium	NR	0.400				0.280 - 0.520		
Zinc	NR	0.564				0.395 - 0.733		

Radiological							Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	NR	0.361				0.253 - 0.469		
Cerium-139	NR	26.4				18.5 - 34.3		
Cesium-134	6.71	7.34	A		-8.6	5.14 - 9.54	0.241	A
Cesium-137	6.9	6.7	A		3.0	4.7 - 8.7	0.196	A
Cobalt-57	-0.058		A			False Positive Test	0.06	
Cobalt-60	7.242	7.24	A		0.0	5.07 - 9.41	0.174	A
Hydrogen-3	NR	276				193 - 359		
Iron-55	NR	33.0				23.1 - 42.9		
Manganese-54	7.893	7.95	A		-0.7	5.57 - 10.34	0.288	A
Nickel-63	NR	25.0				17.5 - 32.5		
Plutonium-238	NR	0.0019				Sensitivity Evaluation		
Plutonium-239/240	NR	0.0037				Sensitivity Evaluation		
Potassium-40	-0.491		A			False Positive Test	0.675	

Radiological						Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Radium-226	NR	0.407				0.285 - 0.529	
Strontium-90	NR	3.02				2.11 - 3.93	
Technetium-99	-0.121		A			False Positive Test	0.16
Uranium-234	NR	0.426				0.298 - 0.554	
Uranium-238	NR	0.404				0.283 - 0.525	
Zinc-65	24.411	23.1	A		5.7	16.2 - 30.0	0.865 A

Radiological Reference Date: August 1, 2025

Results Flags:

A = Result acceptable.....|Bias| ≤ 20%

W = Result acceptable with warning.....20% < |Bias| ≤ 30%

N = Result not acceptable.....|Bias| > 30%

RW = Report Warning

NR = Not Reported

Uncertainty Flags:

N = NOT ACCEPTABLE.....RP < 2%

A = ACCEPTABLE.....2% ≤ RP ≤ 15%

W = ACCEPTABLE WITH WARNING.....15% ≤ RP ≤ 30%

N = NOT ACCEPTABLE.....RP > 30%

Relative Precision (RP) = (Reported Uncertainty / Reported Result) x 100

Notes:

(1) = False Positive

(2) = False Negative

(4) = Sensitivity Evaluation

(6) = Not Evaluated

(11) = False Positive Test, Result Not Reported

(17) = NOT DETECTED - reported a statistically zero result

(18) = Sensitivity Evaluation, Value Not Reported

(25) = Result not reported with other gamma results

(28) = Not Reporting Previously Reported Analyte

(29) = Statistically significant negative value at 3 standard deviations



Laboratory Results For MAPEP-25-MaW53

(AY1201) Consolidated Nuclear Security, LLC, ACO Laboratory

Y12, NSC, Bldg. 9995, Rm 142

Oak Ridge, TN 37831-8189

Inorganic							Units: (mg/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Antimony	NR	0.00017				Sensitivity Evaluation		
Arsenic	NR	0.00181				0.00127 - 0.00235		
Barium	0.0663	0.0604	A		9.8	0.0423 - 0.0785	0.003	A
Beryllium	0.449	0.443	A		1.4	0.310 - 0.576	0.028	A
Cadmium	0.309	0.308	A		0.3	0.216 - 0.400	0.019	A
Chromium	0.320	0.328	A		-2.4	0.230 - 0.426	0.010	A
Cobalt	0.298	0.300	A		-0.7	0.210 - 0.390	0.015	A
Copper	0.421	0.428	A		-1.6	0.300 - 0.556	0.017	A
Lead	0.153	0.155	A		-1.3	0.109 - 0.202	0.015	A
Mercury	0.000289	0.0718	N		-99.6	0.0503 - 0.0933	0.000022	A
Nickel	0.358	0.371	A		-3.5	0.260 - 0.482	0.035	A
Selenium	0.367	0.394	A		-6.9	0.276 - 0.512	0.060	W
Technetium-99	NR					False Positive Test		
Thallium	0.244	0.245	A		-0.4	0.172 - 0.319	0.030	A
Uranium-235	0.0002284	2.35E-4	A		-2.8	1.65E-4 - 3.06E-4	0.00002	A
Uranium-238	0.032	0.0325	A		-1.5	0.0228 - 0.0423	0.003	A
Uranium-Total	0.032	0.0327	A		-2.1	0.0229 - 0.0425	0.0032	A
Vanadium	0.418	0.400	A		4.5	0.280 - 0.520	0.016	A
Zinc	0.532	0.564	A		-5.7	0.395 - 0.733	0.033	A

Radiological							Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	0.37	0.361	A		2.5	0.253 - 0.469	0.86	N
Cerium-139	NR	26.4				18.5 - 34.3		
Cesium-134	NR	7.34		(6)		5.14 - 9.54		
Cesium-137	6.4	6.7	A		-4.5	4.7 - 8.7	0.33	A
Cobalt-57	0.049		A			False Positive Test	0.056	
Cobalt-60	7.6	7.24	A		5.0	5.07 - 9.41	0.25	A
Hydrogen-3	200	276	W		-27.5	193 - 359	10	A
Iron-55	NR	33.0				23.1 - 42.9		
Manganese-54	8.0	7.95	A		0.6	5.57 - 10.34	0.43	A
Nickel-63	NR	25.0				17.5 - 32.5		
Plutonium-238	0.0021	0.0019	A	(17)		Sensitivity Evaluation	0.0040	
Plutonium-239/240	0.0025	0.0037	A	(17)		Sensitivity Evaluation	0.0027	
Potassium-40	4.9		N	(1)		False Positive Test	1.3	

Radiological						Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Radium-226	0.76	0.407	N		86.7	0.285 - 0.529	0.25 N
Strontium-90	3.0	3.02	A		-0.7	2.11 - 3.93	0.17 A
Technetium-99	-0.043		A			False Positive Test	0.34
Uranium-234	0.45	0.426	A		5.6	0.298 - 0.554	0.82 N
Uranium-238	0.392	0.404	A		-3.0	0.283 - 0.525	0.026 A
Zinc-65	25	23.1	A		8.2	16.2 - 30.0	1.2 A

Radiological Reference Date: August 1, 2025

Results Flags:

A = Result acceptable.....|Bias| <= 20%

W = Result acceptable with warning.....20% < |Bias| <= 30%

N = Result not acceptable.....|Bias| > 30%

RW = Report Warning

NR = Not Reported

Uncertainty Flags:

N = NOT ACCEPTABLE.....RP < 2%

A = ACCEPTABLE.....2% <= RP <= 15%

W = ACCEPTABLE WITH WARNING.....15% <= RP <= 30%

N = NOT ACCEPTABLE.....RP > 30%

Relative Precision (RP) = (Reported Uncertainty / Reported Result) x 100

Notes:

(1) = False Positive

(2) = False Negative

(4) = Sensitivity Evaluation

(6) = Not Evaluated

(11) = False Positive Test, Result Not Reported

(17) = NOT DETECTED - reported a statistically zero result

(18) = Sensitivity Evaluation, Value Not Reported

(25) = Result not reported with other gamma results

(28) = Not Reporting Previously Reported Analyte

(29) = Statistically significant negative value at 3 standard deviations



Laboratory Results For MAPEP-25-MaW53
(BSCE99) Supreme Council for Environment
P. O. Box 18233
Manama, Manama 18233

Inorganic							Units: (mg/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Antimony	NR	0.00017				Sensitivity Evaluation		
Arsenic	NR	0.00181				0.00127 - 0.00235		
Barium	NR	0.0604				0.0423 - 0.0785		
Beryllium	NR	0.443				0.310 - 0.576		
Cadmium	0.3046	0.308	A		-1.1	0.216 - 0.400	0.030	A
Chromium	0.3497	0.328	A		6.6	0.230 - 0.426	0.035	A
Cobalt	NR	0.300				0.210 - 0.390		
Copper	0.4104	0.428	A		-4.1	0.300 - 0.556	0.041	A
Lead	0.1875	0.155	W		21.0	0.109 - 0.202	0.019	A
Mercury	NR	0.0718				0.0503 - 0.0933		
Nickel	0.3502	0.371	A		-5.6	0.260 - 0.482	0.035	A
Selenium	NR	0.394				0.276 - 0.512		
Technetium-99	NR					False Positive Test		
Thallium	NR	0.245				0.172 - 0.319		
Uranium-235	NR	2.35E-4				1.65E-4 - 3.06E-4		
Uranium-238	NR	0.0325				0.0228 - 0.0423		
Uranium-Total	NR	0.0327				0.0229 - 0.0425		
Vanadium	NR	0.400				0.280 - 0.520		
Zinc	0.4996	0.564	A		-11.4	0.395 - 0.733	0.050	A

Radiological							Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	0.341	0.361	A		-5.5	0.253 - 0.469	0.059	W
Cerium-139	25.05	26.4	A		-5.1	18.5 - 34.3	2.59	A
Cesium-134	6.86	7.34	A		-6.5	5.14 - 9.54	0.37	A
Cesium-137	6.49	6.7	A		-3.1	4.7 - 8.7	0.55	A
Cobalt-57	NR		N	(11)		False Positive Test		
Cobalt-60	7.07	7.24	A		-2.3	5.07 - 9.41	0.40	A
Hydrogen-3	NR	276				193 - 359		
Iron-55	NR	33.0				23.1 - 42.9		
Manganese-54	7.57	7.95	A		-4.8	5.57 - 10.34	0.64	A
Nickel-63	NR	25.0				17.5 - 32.5		
Plutonium-238	NR	0.0019				Sensitivity Evaluation		
Plutonium-239/240	NR	0.0037				Sensitivity Evaluation		
Potassium-40	NR		N	(11)		False Positive Test		

Radiological						Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Radium-226	NR	0.407				0.285 - 0.529	
Strontium-90	NR	3.02				2.11 - 3.93	
Technetium-99	NR					False Positive Test	
Uranium-234	NR	0.426				0.298 - 0.554	
Uranium-238	1.12	0.404	N		177.2	0.283 - 0.525	0.47 N
Zinc-65	21.44	23.1	A		-7.2	16.2 - 30.0	1.49 A

Radiological Reference Date: August 1, 2025

Results Flags:

A = Result acceptable.....|Bias| ≤ 20%

W = Result acceptable with warning.....20% < |Bias| ≤ 30%

N = Result not acceptable.....|Bias| > 30%

RW = Report Warning

NR = Not Reported

Uncertainty Flags:

N = NOT ACCEPTABLE.....RP < 2%

A = ACCEPTABLE.....2% ≤ RP ≤ 15%

W = ACCEPTABLE WITH WARNING.....15% ≤ RP ≤ 30%

N = NOT ACCEPTABLE.....RP > 30%

Relative Precision (RP) = (Reported Uncertainty / Reported Result) x 100

Notes:

- (1) = False Positive
- (2) = False Negative
- (4) = Sensitivity Evaluation
- (6) = Not Evaluated
- (11) = False Positive Test, Result Not Reported
- (17) = NOT DETECTED - reported a statistically zero result
- (18) = Sensitivity Evaluation, Value Not Reported
- (25) = Result not reported with other gamma results
- (28) = Not Reporting Previously Reported Analyte
- (29) = Statistically significant negative value at 3 standard deviations



Laboratory Results For MAPEP-25-MaW53

(BY1201) Consolidated Nuclear Security, LLC, ACO, Production Laboratory

Y12, NSC, Bldg. 9995, Rm 142

Oak Ridge, TN 37831-8189

Inorganic							Units: (mg/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Antimony	NR	0.00017				Sensitivity Evaluation		
Arsenic	NR	0.00181				0.00127 - 0.00235		
Barium	NR	0.0604				0.0423 - 0.0785		
Beryllium	NR	0.443				0.310 - 0.576		
Cadmium	NR	0.308				0.216 - 0.400		
Chromium	NR	0.328				0.230 - 0.426		
Cobalt	NR	0.300				0.210 - 0.390		
Copper	NR	0.428				0.300 - 0.556		
Lead	NR	0.155				0.109 - 0.202		
Mercury	NR	0.0718				0.0503 - 0.0933		
Nickel	NR	0.371				0.260 - 0.482		
Selenium	NR	0.394				0.276 - 0.512		
Technetium-99	NR					False Positive Test		
Thallium	NR	0.245				0.172 - 0.319		
Uranium-235	NR	2.35E-4				1.65E-4 - 3.06E-4		
Uranium-238	NR	0.0325				0.0228 - 0.0423		
Uranium-Total	NR	0.0327				0.0229 - 0.0425		
Vanadium	NR	0.400				0.280 - 0.520		
Zinc	NR	0.564				0.395 - 0.733		

Radiological							Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	0.311	0.361	A		-13.9	0.253 - 0.469	0.026	A
Cerium-139	NR	26.4				18.5 - 34.3		
Cesium-134	NR	7.34		(6)		5.14 - 9.54		
Cesium-137	7.35	6.7	A		9.7	4.7 - 8.7	0.251	A
Cobalt-57	NR		N	(11)		False Positive Test		
Cobalt-60	7.43	7.24	A		2.6	5.07 - 9.41	.229	A
Hydrogen-3	NR	276				193 - 359		
Iron-55	NR	33.0				23.1 - 42.9		
Manganese-54	8.44	7.95	A		6.2	5.57 - 10.34	0.321	A
Nickel-63	NR	25.0				17.5 - 32.5		
Plutonium-238	-0.002	0.0019	A	(17)		Sensitivity Evaluation	.006	
Plutonium-239/240	0.000012	0.0037	A	(17)		Sensitivity Evaluation	.005	
Potassium-40	0.71		A			False Positive Test	.718	

Radiological						Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Radium-226	NR	0.407				0.285 - 0.529	
Strontium-90	2.60	3.02	A		-13.9	2.11 - 3.93	0.17 A
Technetium-99	0.45		A			False Positive Test	0.1813
Uranium-234	0.444	0.426	A		4.2	0.298 - 0.554	.0500 A
Uranium-238	0.444	0.404	A		9.9	0.283 - 0.525	.0481 A
Zinc-65	24.43	23.1	A		5.8	16.2 - 30.0	1.003 A

Radiological Reference Date: August 1, 2025

Results Flags:

A = Result acceptable.....|Bias| <= 20%

W = Result acceptable with warning.....20% < |Bias| <= 30%

N = Result not acceptable.....|Bias| > 30%

RW = Report Warning

NR = Not Reported

Uncertainty Flags:

N = NOT ACCEPTABLE.....RP < 2%

A = ACCEPTABLE.....2% <= RP <= 15%

W = ACCEPTABLE WITH WARNING.....15% <= RP <= 30%

N = NOT ACCEPTABLE.....RP > 30%

Relative Precision (RP) = (Reported Uncertainty / Reported Result) x 100

Notes:

(1) = False Positive

(2) = False Negative

(4) = Sensitivity Evaluation

(6) = Not Evaluated

(11) = False Positive Test, Result Not Reported

(17) = NOT DETECTED - reported a statistically zero result

(18) = Sensitivity Evaluation, Value Not Reported

(25) = Result not reported with other gamma results

(28) = Not Reporting Previously Reported Analyte

(29) = Statistically significant negative value at 3 standard deviations



Laboratory Results For MAPEP-25-MaW53

(CESL01) Lawrence Livermore National Laboratory - EMRL

7000 East Avenue

Livermore, CA 94551

Inorganic							Units: (mg/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Antimony	NR	0.00017				Sensitivity Evaluation		
Arsenic	NR	0.00181				0.00127 - 0.00235		
Barium	NR	0.0604				0.0423 - 0.0785		
Beryllium	NR	0.443				0.310 - 0.576		
Cadmium	NR	0.308				0.216 - 0.400		
Chromium	NR	0.328				0.230 - 0.426		
Cobalt	NR	0.300				0.210 - 0.390		
Copper	NR	0.428				0.300 - 0.556		
Lead	NR	0.155				0.109 - 0.202		
Mercury	NR	0.0718				0.0503 - 0.0933		
Nickel	NR	0.371				0.260 - 0.482		
Selenium	NR	0.394				0.276 - 0.512		
Technetium-99	NR					False Positive Test		
Thallium	NR	0.245				0.172 - 0.319		
Uranium-235	NR	2.35E-4				1.65E-4 - 3.06E-4		
Uranium-238	NR	0.0325				0.0228 - 0.0423		
Uranium-Total	NR	0.0327				0.0229 - 0.0425		
Vanadium	NR	0.400				0.280 - 0.520		
Zinc	NR	0.564				0.395 - 0.733		

Radiological							Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	NR	0.361				0.253 - 0.469		
Cerium-139	2.94E+01	26.4	A		11.4	18.5 - 34.3	1.68	A
Cesium-134	7.19E+00	7.34	A		-2.0	5.14 - 9.54	5.96E-01	A
Cesium-137	6.69E+00	6.7	A		-0.1	4.7 - 8.7	1.08	W
Cobalt-57	-1.28E-01		A			False Positive Test	1.28E-01	
Cobalt-60	1.02E+01	7.24	N		40.9	5.07 - 9.41	9.76E-01	A
Hydrogen-3	2.53E+02	276	A		-8.3	193 - 359	4.01	N
Iron-55	NR	33.0				23.1 - 42.9		
Manganese-54	8.60E+00	7.95	A		8.2	5.57 - 10.34	1.31	W
Nickel-63	NR	25.0				17.5 - 32.5		
Plutonium-238	5.20E-04	0.0019	A	(17)		Sensitivity Evaluation	3.58E-04	
Plutonium-239/240	4.15E-03	0.0037	A			Sensitivity Evaluation	9.10E-04	
Potassium-40	3.59E+00		A			False Positive Test	6.67	

Radiological						Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Radium-226	NR	0.407				0.285 - 0.529	
Strontium-90	NR	3.02				2.11 - 3.93	
Technetium-99	NR					False Positive Test	
Uranium-234	NR	0.426				0.298 - 0.554	
Uranium-238	NR	0.404				0.283 - 0.525	
Zinc-65	2.27E+01	23.1	A		-1.7	16.2 - 30.0	3.40 A

Radiological Reference Date: August 1, 2025

Results Flags:

A = Result acceptable.....|Bias| <= 20%

W = Result acceptable with warning.....20% < |Bias| <= 30%

N = Result not acceptable.....|Bias| > 30%

RW = Report Warning

NR = Not Reported

Uncertainty Flags:

N = NOT ACCEPTABLE.....RP < 2%

A = ACCEPTABLE.....2% <= RP <= 15%

W = ACCEPTABLE WITH WARNING.....15% <= RP <= 30%

N = NOT ACCEPTABLE.....RP > 30%

Relative Precision (RP) = (Reported Uncertainty / Reported Result) x 100

Notes:

(1) = False Positive

(2) = False Negative

(4) = Sensitivity Evaluation

(6) = Not Evaluated

(11) = False Positive Test, Result Not Reported

(17) = NOT DETECTED - reported a statistically zero result

(18) = Sensitivity Evaluation, Value Not Reported

(25) = Result not reported with other gamma results

(28) = Not Reporting Previously Reported Analyte

(29) = Statistically significant negative value at 3 standard deviations



Laboratory Results For MAPEP-25-MaW53

(CMRC01) Carlsbad Environmental Monitoring and Research Center

1400 University Dr.

Carlsbad, NM 88220

Inorganic							Units: (mg/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Antimony	NR	0.00017				Sensitivity Evaluation		
Arsenic	NR	0.00181				0.00127 - 0.00235		
Barium	NR	0.0604				0.0423 - 0.0785		
Beryllium	NR	0.443				0.310 - 0.576		
Cadmium	NR	0.308				0.216 - 0.400		
Chromium	NR	0.328				0.230 - 0.426		
Cobalt	NR	0.300				0.210 - 0.390		
Copper	NR	0.428				0.300 - 0.556		
Lead	NR	0.155				0.109 - 0.202		
Mercury	NR	0.0718				0.0503 - 0.0933		
Nickel	NR	0.371				0.260 - 0.482		
Selenium	NR	0.394				0.276 - 0.512		
Technetium-99	NR					False Positive Test		
Thallium	NR	0.245				0.172 - 0.319		
Uranium-235	NR	2.35E-4				1.65E-4 - 3.06E-4		
Uranium-238	NR	0.0325				0.0228 - 0.0423		
Uranium-Total	NR	0.0327				0.0229 - 0.0425		
Vanadium	NR	0.400				0.280 - 0.520		
Zinc	NR	0.564				0.395 - 0.733		

Radiological							Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	3.13E-01	0.361	A		-13.3	0.253 - 0.469	1.61E-02	A
Cerium-139	NR	26.4				18.5 - 34.3		
Cesium-134	6.46E+00	7.34	A		-12.0	5.14 - 9.54	2.78E-01	A
Cesium-137	6.72E+00	6.7	A		0.3	4.7 - 8.7	2.75E-01	A
Cobalt-57	-3.08E-02		A			False Positive Test	3.18E-02	
Cobalt-60	6.79E+00	7.24	A		-6.2	5.07 - 9.41	2.28E-01	A
Hydrogen-3	NR	276				193 - 359		
Iron-55	NR	33.0				23.1 - 42.9		
Manganese-54	7.70E+00	7.95	A		-3.1	5.57 - 10.34	2.67E-01	A
Nickel-63	NR	25.0				17.5 - 32.5		
Plutonium-238	-4.69E-04	0.0019	A	(17)		Sensitivity Evaluation	6.05E-04	
Plutonium-239/240	4.02E-02	0.0037	N	(4)		Sensitivity Evaluation	4.58E-03	
Potassium-40	4.59E-01		N	(1)		False Positive Test	1.28E-01	

Radiological						Units: (Bq/L)		
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Radium-226	1.55E+00	0.407	N		280.8	0.285 - 0.529	7.12E-01	N
Strontium-90	2.99E+00	3.02	A		-1.0	2.11 - 3.93	4.28E-02	N
Technetium-99	NR					False Positive Test		
Uranium-234	4.38E-01	0.426	A		2.8	0.298 - 0.554	2.99E-02	A
Uranium-238	3.58E-01	0.404	A		-11.4	0.283 - 0.525	2.51E-02	A
Zinc-65	2.28E+01	23.1	A		-1.3	16.2 - 30.0	5.85E-01	A

Radiological Reference Date: August 1, 2025

Results Flags:

A = Result acceptable.....|Bias| <= 20%

W = Result acceptable with warning.....20% < |Bias| <= 30%

N = Result not acceptable.....|Bias| > 30%

RW = Report Warning

NR = Not Reported

Uncertainty Flags:

N = NOT ACCEPTABLE.....RP < 2%

A = ACCEPTABLE.....2% <= RP <= 15%

W = ACCEPTABLE WITH WARNING.....15% <= RP <= 30%

N = NOT ACCEPTABLE.....RP > 30%

Relative Precision (RP) = (Reported Uncertainty / Reported Result) x 100

Notes:

- (1) = False Positive
- (2) = False Negative
- (4) = Sensitivity Evaluation
- (6) = Not Evaluated
- (11) = False Positive Test, Result Not Reported
- (17) = NOT DETECTED - reported a statistically zero result
- (18) = Sensitivity Evaluation, Value Not Reported
- (25) = Result not reported with other gamma results
- (28) = Not Reporting Previously Reported Analyte
- (29) = Statistically significant negative value at 3 standard deviations



Laboratory Results For MAPEP-25-MaW53
(COPS99) Health Canada Radiation Protection Bureau
775 Brookfield Road
Ottawa, Ontario K1A 1C1

Inorganic							Units: (mg/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Antimony	NR	0.00017				Sensitivity Evaluation		
Arsenic	NR	0.00181				0.00127 - 0.00235		
Barium	NR	0.0604				0.0423 - 0.0785		
Beryllium	NR	0.443				0.310 - 0.576		
Cadmium	NR	0.308				0.216 - 0.400		
Chromium	NR	0.328				0.230 - 0.426		
Cobalt	NR	0.300				0.210 - 0.390		
Copper	NR	0.428				0.300 - 0.556		
Lead	NR	0.155				0.109 - 0.202		
Mercury	NR	0.0718				0.0503 - 0.0933		
Nickel	NR	0.371				0.260 - 0.482		
Selenium	NR	0.394				0.276 - 0.512		
Technetium-99	NR					False Positive Test		
Thallium	NR	0.245				0.172 - 0.319		
Uranium-235	NR	2.35E-4				1.65E-4 - 3.06E-4		
Uranium-238	NR	0.0325				0.0228 - 0.0423		
Uranium-Total	NR	0.0327				0.0229 - 0.0425		
Vanadium	NR	0.400				0.280 - 0.520		
Zinc	NR	0.564				0.395 - 0.733		

Radiological							Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	NR	0.361				0.253 - 0.469		
Cerium-139	NR	26.4				18.5 - 34.3		
Cesium-134	7.29	7.34	A		-0.7	5.14 - 9.54	0.41	A
Cesium-137	6.32	6.7	A		-5.7	4.7 - 8.7	0.47	A
Cobalt-57	0.00443		A			False Positive Test	0.002	
Cobalt-60	8.09	7.24	A		11.7	5.07 - 9.41	0.33	A
Hydrogen-3	NR	276				193 - 359		
Iron-55	NR	33.0				23.1 - 42.9		
Manganese-54	7.26	7.95	A		-8.7	5.57 - 10.34	0.61	A
Nickel-63	NR	25.0				17.5 - 32.5		
Plutonium-238	NR	0.0019				Sensitivity Evaluation		
Plutonium-239/240	NR	0.0037				Sensitivity Evaluation		
Potassium-40	-5.8		A			False Positive Test	2.96	

Radiological						Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Radium-226	NR	0.407				0.285 - 0.529	
Strontium-90	NR	3.02				2.11 - 3.93	
Technetium-99	NR					False Positive Test	
Uranium-234	NR	0.426				0.298 - 0.554	
Uranium-238	NR	0.404				0.283 - 0.525	
Zinc-65	22.04	23.1	A		-4.6	16.2 - 30.0	1.26 A

Radiological Reference Date: August 1, 2025

Results Flags:

A = Result acceptable.....|Bias| ≤ 20%

W = Result acceptable with warning.....20% < |Bias| ≤ 30%

N = Result not acceptable.....|Bias| > 30%

RW = Report Warning

NR = Not Reported

Uncertainty Flags:

N = NOT ACCEPTABLE.....RP < 2%

A = ACCEPTABLE.....2% ≤ RP ≤ 15%

W = ACCEPTABLE WITH WARNING.....15% ≤ RP ≤ 30%

N = NOT ACCEPTABLE.....RP > 30%

Relative Precision (RP) = (Reported Uncertainty / Reported Result) x 100

Notes:

(1) = False Positive

(2) = False Negative

(4) = Sensitivity Evaluation

(6) = Not Evaluated

(11) = False Positive Test, Result Not Reported

(17) = NOT DETECTED - reported a statistically zero result

(18) = Sensitivity Evaluation, Value Not Reported

(25) = Result not reported with other gamma results

(28) = Not Reporting Previously Reported Analyte

(29) = Statistically significant negative value at 3 standard deviations



Laboratory Results For MAPEP-25-MaW53

(DEHS01) Department of Environmental Health & Safety

North Carolina State Univ.

Raleigh, NC 27695-8007

Inorganic							Units: (mg/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Antimony	NR	0.00017				Sensitivity Evaluation		
Arsenic	NR	0.00181				0.00127 - 0.00235		
Barium	NR	0.0604				0.0423 - 0.0785		
Beryllium	NR	0.443				0.310 - 0.576		
Cadmium	NR	0.308				0.216 - 0.400		
Chromium	NR	0.328				0.230 - 0.426		
Cobalt	NR	0.300				0.210 - 0.390		
Copper	NR	0.428				0.300 - 0.556		
Lead	NR	0.155				0.109 - 0.202		
Mercury	NR	0.0718				0.0503 - 0.0933		
Nickel	NR	0.371				0.260 - 0.482		
Selenium	NR	0.394				0.276 - 0.512		
Technetium-99	NR					False Positive Test		
Thallium	NR	0.245				0.172 - 0.319		
Uranium-235	NR	2.35E-4				1.65E-4 - 3.06E-4		
Uranium-238	NR	0.0325				0.0228 - 0.0423		
Uranium-Total	NR	0.0327				0.0229 - 0.0425		
Vanadium	NR	0.400				0.280 - 0.520		
Zinc	NR	0.564				0.395 - 0.733		

Radiological							Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	NR	0.361				0.253 - 0.469		
Cerium-139	26.85	26.4	A		1.7	18.5 - 34.3	1.72	A
Cesium-134	7.69	7.34	A		4.8	5.14 - 9.54	0.47	A
Cesium-137	4.45	6.7	N		-33.6	4.7 - 8.7	1.32	W
Cobalt-57	-0.24		N	(29)		False Positive Test	0.01	
Cobalt-60	6.82	7.24	A		-5.8	5.07 - 9.41	0.41	A
Hydrogen-3	313	276	A		13.4	193 - 359	33	A
Iron-55	NR	33.0				23.1 - 42.9		
Manganese-54	8.04	7.95	A		1.1	5.57 - 10.34	0.61	A
Nickel-63	NR	25.0				17.5 - 32.5		
Plutonium-238	NR	0.0019				Sensitivity Evaluation		
Plutonium-239/240	NR	0.0037				Sensitivity Evaluation		
Potassium-40	NR		N	(11)		False Positive Test		

Radiological						Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Radium-226	NR	0.407				0.285 - 0.529	
Strontium-90	NR	3.02				2.11 - 3.93	
Technetium-99	NR					False Positive Test	
Uranium-234	NR	0.426				0.298 - 0.554	
Uranium-238	NR	0.404				0.283 - 0.525	
Zinc-65	25.07	23.1	A		8.5	16.2 - 30.0	1.53 A

Radiological Reference Date: August 1, 2025

Results Flags:

A = Result acceptable.....|Bias| <= 20%

W = Result acceptable with warning.....20% < |Bias| <= 30%

N = Result not acceptable.....|Bias| > 30%

RW = Report Warning

NR = Not Reported

Uncertainty Flags:

N = NOT ACCEPTABLE.....RP < 2%

A = ACCEPTABLE.....2% <= RP <= 15%

W = ACCEPTABLE WITH WARNING.....15% <= RP <= 30%

N = NOT ACCEPTABLE.....RP > 30%

Relative Precision (RP) = (Reported Uncertainty / Reported Result) x 100

Notes:

(1) = False Positive

(2) = False Negative

(4) = Sensitivity Evaluation

(6) = Not Evaluated

(11) = False Positive Test, Result Not Reported

(17) = NOT DETECTED - reported a statistically zero result

(18) = Sensitivity Evaluation, Value Not Reported

(25) = Result not reported with other gamma results

(28) = Not Reporting Previously Reported Analyte

(29) = Statistically significant negative value at 3 standard deviations



Laboratory Results For MAPEP-25-MaW53
(EFGS01) Eurofins Frontier Global Sciences, LLC.
5755 8th St. E
Tacoma, WA 98424

Inorganic							Units: (mg/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Antimony	NR	0.00017				Sensitivity Evaluation		
Arsenic	NR	0.00181				0.00127 - 0.00235		
Barium	NR	0.0604				0.0423 - 0.0785		
Beryllium	NR	0.443				0.310 - 0.576		
Cadmium	NR	0.308				0.216 - 0.400		
Chromium	NR	0.328				0.230 - 0.426		
Cobalt	NR	0.300				0.210 - 0.390		
Copper	NR	0.428				0.300 - 0.556		
Lead	NR	0.155				0.109 - 0.202		
Mercury	0.068	0.0718	A		-5.3	0.0503 - 0.0933	0.004	A
Nickel	NR	0.371				0.260 - 0.482		
Selenium	NR	0.394				0.276 - 0.512		
Technetium-99	NR					False Positive Test		
Thallium	NR	0.245				0.172 - 0.319		
Uranium-235	NR	2.35E-4				1.65E-4 - 3.06E-4		
Uranium-238	NR	0.0325				0.0228 - 0.0423		
Uranium-Total	NR	0.0327				0.0229 - 0.0425		
Vanadium	NR	0.400				0.280 - 0.520		
Zinc	NR	0.564				0.395 - 0.733		

Radiological							Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	NR	0.361				0.253 - 0.469		
Cerium-139	NR	26.4				18.5 - 34.3		
Cesium-134	NR	7.34				5.14 - 9.54		
Cesium-137	NR	6.7				4.7 - 8.7		
Cobalt-57	NR					False Positive Test		
Cobalt-60	NR	7.24				5.07 - 9.41		
Hydrogen-3	NR	276				193 - 359		
Iron-55	NR	33.0				23.1 - 42.9		
Manganese-54	NR	7.95				5.57 - 10.34		
Nickel-63	NR	25.0				17.5 - 32.5		
Plutonium-238	NR	0.0019				Sensitivity Evaluation		
Plutonium-239/240	NR	0.0037				Sensitivity Evaluation		
Potassium-40	NR					False Positive Test		

Radiological						Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Radium-226	NR	0.407				0.285 - 0.529	
Strontium-90	NR	3.02				2.11 - 3.93	
Technetium-99	NR					False Positive Test	
Uranium-234	NR	0.426				0.298 - 0.554	
Uranium-238	NR	0.404				0.283 - 0.525	
Zinc-65	NR	23.1				16.2 - 30.0	

Radiological Reference Date: August 1, 2025

Results Flags:

A = Result acceptable.....|Bias| ≤ 20%

W = Result acceptable with warning.....20% < |Bias| ≤ 30%

N = Result not acceptable.....|Bias| > 30%

RW = Report Warning

NR = Not Reported

Uncertainty Flags:

N = NOT ACCEPTABLE.....RP < 2%

A = ACCEPTABLE.....2% ≤ RP ≤ 15%

W = ACCEPTABLE WITH WARNING.....15% ≤ RP ≤ 30%

N = NOT ACCEPTABLE.....RP > 30%

Relative Precision (RP) = (Reported Uncertainty / Reported Result) x 100

Notes:

(1) = False Positive

(2) = False Negative

(4) = Sensitivity Evaluation

(6) = Not Evaluated

(11) = False Positive Test, Result Not Reported

(17) = NOT DETECTED - reported a statistically zero result

(18) = Sensitivity Evaluation, Value Not Reported

(25) = Result not reported with other gamma results

(28) = Not Reporting Previously Reported Analyte

(29) = Statistically significant negative value at 3 standard deviations



Laboratory Results For MAPEP-25-MaW53

(ELIW01) Energy Laboratories, Inc.
2393 Salt Creek HWY
Casper, Wy 82601

Inorganic							Units: (mg/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Antimony	NR	0.00017				Sensitivity Evaluation		
Arsenic	NR	0.00181				0.00127 - 0.00235		
Barium	NR	0.0604				0.0423 - 0.0785		
Beryllium	NR	0.443				0.310 - 0.576		
Cadmium	NR	0.308				0.216 - 0.400		
Chromium	NR	0.328				0.230 - 0.426		
Cobalt	NR	0.300				0.210 - 0.390		
Copper	NR	0.428				0.300 - 0.556		
Lead	NR	0.155				0.109 - 0.202		
Mercury	NR	0.0718				0.0503 - 0.0933		
Nickel	NR	0.371				0.260 - 0.482		
Selenium	NR	0.394				0.276 - 0.512		
Technetium-99	NR					False Positive Test		
Thallium	NR	0.245				0.172 - 0.319		
Uranium-235	NR	2.35E-4				1.65E-4 - 3.06E-4		
Uranium-238	NR	0.0325				0.0228 - 0.0423		
Uranium-Total	NR	0.0327				0.0229 - 0.0425		
Vanadium	NR	0.400				0.280 - 0.520		
Zinc	NR	0.564				0.395 - 0.733		

Radiological							Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	NR	0.361				0.253 - 0.469		
Cerium-139	NR	26.4				18.5 - 34.3		
Cesium-134	NR	7.34				5.14 - 9.54		
Cesium-137	NR	6.7				4.7 - 8.7		
Cobalt-57	NR					False Positive Test		
Cobalt-60	NR	7.24				5.07 - 9.41		
Hydrogen-3	NR	276				193 - 359		
Iron-55	NR	33.0				23.1 - 42.9		
Manganese-54	NR	7.95				5.57 - 10.34		
Nickel-63	NR	25.0				17.5 - 32.5		
Plutonium-238	NR	0.0019				Sensitivity Evaluation		
Plutonium-239/240	NR	0.0037				Sensitivity Evaluation		
Potassium-40	NR					False Positive Test		

Radiological						Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Radium-226	0.3811	0.407	A		-6.4	0.285 - 0.529	0.0333 A
Strontium-90	NR	3.02				2.11 - 3.93	
Technetium-99	NR					False Positive Test	
Uranium-234	0.4181	0.426	A		-1.9	0.298 - 0.554	0.03885 A
Uranium-238	0.4255	0.404	A		5.3	0.283 - 0.525	0.03885 A
Zinc-65	NR	23.1				16.2 - 30.0	

Radiological Reference Date: August 1, 2025

Results Flags:

A = Result acceptable.....|Bias| ≤ 20%

W = Result acceptable with warning.....20% < |Bias| ≤ 30%

N = Result not acceptable.....|Bias| > 30%

RW = Report Warning

NR = Not Reported

Uncertainty Flags:

N = NOT ACCEPTABLE.....RP < 2%

A = ACCEPTABLE.....2% ≤ RP ≤ 15%

W = ACCEPTABLE WITH WARNING.....15% ≤ RP ≤ 30%

N = NOT ACCEPTABLE.....RP > 30%

Relative Precision (RP) = (Reported Uncertainty / Reported Result) x 100

Notes:

(1) = False Positive

(2) = False Negative

(4) = Sensitivity Evaluation

(6) = Not Evaluated

(11) = False Positive Test, Result Not Reported

(17) = NOT DETECTED - reported a statistically zero result

(18) = Sensitivity Evaluation, Value Not Reported

(25) = Result not reported with other gamma results

(28) = Not Reporting Previously Reported Analyte

(29) = Statistically significant negative value at 3 standard deviations



Laboratory Results For MAPEP-25-MaW53
 (ERAD01) Lawrence Livermore National Laboratory
 7000 East Ave., L-231
 Livermore, CA 94551

Inorganic							Units: (mg/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Antimony	NR	0.00017				Sensitivity Evaluation		
Arsenic	NR	0.00181				0.00127 - 0.00235		
Barium	NR	0.0604				0.0423 - 0.0785		
Beryllium	NR	0.443				0.310 - 0.576		
Cadmium	NR	0.308				0.216 - 0.400		
Chromium	NR	0.328				0.230 - 0.426		
Cobalt	NR	0.300				0.210 - 0.390		
Copper	NR	0.428				0.300 - 0.556		
Lead	NR	0.155				0.109 - 0.202		
Mercury	NR	0.0718				0.0503 - 0.0933		
Nickel	NR	0.371				0.260 - 0.482		
Selenium	NR	0.394				0.276 - 0.512		
Technetium-99	NR					False Positive Test		
Thallium	NR	0.245				0.172 - 0.319		
Uranium-235	0.0002352	2.35E-4	A		0.1	1.65E-4 - 3.06E-4	0.000001	N
Uranium-238	0.03257	0.0325	A		0.2	0.0228 - 0.0423	0.00016	N
Uranium-Total	0.03281	0.0327	A		0.3	0.0229 - 0.0425	0.00016	N
Vanadium	NR	0.400				0.280 - 0.520		
Zinc	NR	0.564				0.395 - 0.733		

Radiological							Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	NR	0.361				0.253 - 0.469		
Cerium-139	NR	26.4				18.5 - 34.3		
Cesium-134	NR	7.34				5.14 - 9.54		
Cesium-137	NR	6.7				4.7 - 8.7		
Cobalt-57	NR					False Positive Test		
Cobalt-60	NR	7.24				5.07 - 9.41		
Hydrogen-3	NR	276				193 - 359		
Iron-55	NR	33.0				23.1 - 42.9		
Manganese-54	NR	7.95				5.57 - 10.34		
Nickel-63	NR	25.0				17.5 - 32.5		
Plutonium-238	NR	0.0019				Sensitivity Evaluation		
Plutonium-239/240	NR	0.0037				Sensitivity Evaluation		
Potassium-40	NR					False Positive Test		

Radiological						Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Radium-226	NR	0.407				0.285 - 0.529	
Strontium-90	NR	3.02				2.11 - 3.93	
Technetium-99	NR					False Positive Test	
Uranium-234	NR	0.426				0.298 - 0.554	
Uranium-238	NR	0.404				0.283 - 0.525	
Zinc-65	NR	23.1				16.2 - 30.0	

Radiological Reference Date: August 1, 2025

Results Flags:

A = Result acceptable.....|Bias| ≤ 20%

W = Result acceptable with warning.....20% < |Bias| ≤ 30%

N = Result not acceptable.....|Bias| > 30%

RW = Report Warning

NR = Not Reported

Uncertainty Flags:

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A = ACCEPTABLE.....2% ≤ RP ≤ 15%

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Notes:

(1) = False Positive

(2) = False Negative

(4) = Sensitivity Evaluation

(6) = Not Evaluated

(11) = False Positive Test, Result Not Reported

(17) = NOT DETECTED - reported a statistically zero result

(18) = Sensitivity Evaluation, Value Not Reported

(25) = Result not reported with other gamma results

(28) = Not Reporting Previously Reported Analyte

(29) = Statistically significant negative value at 3 standard deviations



Laboratory Results For MAPEP-25-MaW53
(ERCL01) Washington State Public Health Laboratories
1610 N.E. 150th Street
Shoreline, WA 98155-9701

Inorganic							Units: (mg/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Antimony	NR	0.00017				Sensitivity Evaluation		
Arsenic	NR	0.00181				0.00127 - 0.00235		
Barium	NR	0.0604				0.0423 - 0.0785		
Beryllium	NR	0.443				0.310 - 0.576		
Cadmium	NR	0.308				0.216 - 0.400		
Chromium	NR	0.328				0.230 - 0.426		
Cobalt	NR	0.300				0.210 - 0.390		
Copper	NR	0.428				0.300 - 0.556		
Lead	NR	0.155				0.109 - 0.202		
Mercury	NR	0.0718				0.0503 - 0.0933		
Nickel	NR	0.371				0.260 - 0.482		
Selenium	NR	0.394				0.276 - 0.512		
Technetium-99	NR					False Positive Test		
Thallium	NR	0.245				0.172 - 0.319		
Uranium-235	0.000234	2.35E-4	A		-0.4	1.65E-4 - 3.06E-4	0.000032	A
Uranium-238	0.0330	0.0325	A		1.5	0.0228 - 0.0423	0.0044	A
Uranium-Total	0.0332	0.0327	A		1.5	0.0229 - 0.0425	0.0044	A
Vanadium	NR	0.400				0.280 - 0.520		
Zinc	NR	0.564				0.395 - 0.733		

Radiological							Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	0.370	0.361	A		2.5	0.253 - 0.469	0.042	A
Cerium-139	28.1	26.4	A		6.4	18.5 - 34.3	2.6	A
Cesium-134	6.92	7.34	A		-5.7	5.14 - 9.54	0.19	A
Cesium-137	7.55	6.7	A		12.7	4.7 - 8.7	0.38	A
Cobalt-57	-0.141		A			False Positive Test	0.091	
Cobalt-60	7.6	7.24	A		5.0	5.07 - 9.41	1.1	A
Hydrogen-3	285	276	A		3.3	193 - 359	8	A
Iron-55	NR	33.0				23.1 - 42.9		
Manganese-54	8.25	7.95	A		3.8	5.57 - 10.34	0.23	A
Nickel-63	26.3	25.0	A		5.2	17.5 - 32.5	3.8	A
Plutonium-238	0.0015	0.0019	A	(17)		Sensitivity Evaluation	0.0032	
Plutonium-239/240	0.0070	0.0037	A	(17)		Sensitivity Evaluation	0.0030	
Potassium-40	5.7		N	(1)		False Positive Test	1.1	

Radiological						Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Radium-226	0.459	0.407	A		12.8	0.285 - 0.529	0.055 A
Strontium-90	2.70	3.02	A		-10.6	2.11 - 3.93	0.18 A
Technetium-99	-0.30		A			False Positive Test	0.28
Uranium-234	0.400	0.426	A		-6.1	0.298 - 0.554	0.028 A
Uranium-238	0.396	0.404	A		-2.0	0.283 - 0.525	0.028 A
Zinc-65	24.4	23.1	A		5.6	16.2 - 30.0	0.7 A

Radiological Reference Date: August 1, 2025

Results Flags:

A = Result acceptable.....|Bias| ≤ 20%

W = Result acceptable with warning.....20% < |Bias| ≤ 30%

N = Result not acceptable.....|Bias| > 30%

RW = Report Warning

NR = Not Reported

Uncertainty Flags:

N = NOT ACCEPTABLE.....RP < 2%

A = ACCEPTABLE.....2% ≤ RP ≤ 15%

W = ACCEPTABLE WITH WARNING.....15% ≤ RP ≤ 30%

N = NOT ACCEPTABLE.....RP > 30%

Relative Precision (RP) = (Reported Uncertainty / Reported Result) x 100

Notes:

- (1) = False Positive
- (2) = False Negative
- (4) = Sensitivity Evaluation
- (6) = Not Evaluated
- (11) = False Positive Test, Result Not Reported
- (17) = NOT DETECTED - reported a statistically zero result
- (18) = Sensitivity Evaluation, Value Not Reported
- (25) = Result not reported with other gamma results
- (28) = Not Reporting Previously Reported Analyte
- (29) = Statistically significant negative value at 3 standard deviations



Laboratory Results For MAPEP-25-MaW53

(ERHD99) National Monitoring Section, Radiation Protection Bureau, Health Canada
775 Brookfield Road AL6302D1
Ottawa, Ontario K1A 1C1

Inorganic							Units: (mg/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Antimony	0.00004	0.00017	A	(17)		Sensitivity Evaluation	0.002	
Arsenic	0.0012	0.00181	N		-33.7	0.00127 - 0.00235	0.0002	W
Barium	0.0615	0.0604	A		1.8	0.0423 - 0.0785	0.0004	N
Beryllium	0.4453	0.443	A		0.5	0.310 - 0.576	0.002	N
Cadmium	0.2993	0.308	A		-2.8	0.216 - 0.400	0.0024	N
Chromium	0.3094	0.328	A		-5.7	0.230 - 0.426	0.003	N
Cobalt	0.2841	0.300	A		-5.3	0.210 - 0.390	0.002	N
Copper	0.4084	0.428	A		-4.6	0.300 - 0.556	0.004	N
Lead	0.1572	0.155	A		1.4	0.109 - 0.202	0.001	N
Mercury	NR	0.0718				0.0503 - 0.0933		
Nickel	0.3468	0.371	A		-6.5	0.260 - 0.482	0.007	A
Selenium	.3848	0.394	A		-2.3	0.276 - 0.512	0.018	A
Technetium-99	NR					False Positive Test		
Thallium	0.247	0.245	A		0.8	0.172 - 0.319	0.001	N
Uranium-235	0.0002	2.35E-4	A		-14.9	1.65E-4 - 3.06E-4	0.00003	A
Uranium-238	0.0338	0.0325	A		4.0	0.0228 - 0.0423	0.00011	N
Uranium-Total	NR	0.0327				0.0229 - 0.0425		
Vanadium	0.3906	0.400	A		-2.4	0.280 - 0.520	0.003	N
Zinc	0.5108	0.564	A		-9.4	0.395 - 0.733	0.007	N

Radiological							Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	0.364	0.361	A		0.8	0.253 - 0.469	0.014	A
Cerium-139	42.6	26.4	N		61.4	18.5 - 34.3	3.4	A
Cesium-134	7.57	7.34	A		3.1	5.14 - 9.54	0.76	A
Cesium-137	6.76	6.7	A		0.9	4.7 - 8.7	0.53	A
Cobalt-57	-0.10		A			False Positive Test	0.30	
Cobalt-60	7.47	7.24	A		3.2	5.07 - 9.41	0.63	A
Hydrogen-3	295	276	A		6.9	193 - 359	5	N
Iron-55	NR	33.0				23.1 - 42.9		
Manganese-54	7.90	7.95	A		-0.6	5.57 - 10.34	0.59	A
Nickel-63	NR	25.0				17.5 - 32.5		
Plutonium-238	0.011	0.0019	A	(17)		Sensitivity Evaluation	0.004	
Plutonium-239/240	0.007	0.0037	A			Sensitivity Evaluation	0.002	
Potassium-40	-0.36		A			False Positive Test	0.39	

Radiological						Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Radium-226	0.407	0.407	A		0.0	0.285 - 0.529	0.023 A
Strontium-90	NR	3.02	N	(28)		2.11 - 3.93	
Technetium-99	NR					False Positive Test	
Uranium-234	0.420	0.426	A		-1.4	0.298 - 0.554	0.018 A
Uranium-238	0.386	0.404	A		-4.5	0.283 - 0.525	0.017 A
Zinc-65	24.2	23.1	A		4.8	16.2 - 30.0	1.8 A

Radiological Reference Date: August 1, 2025

Results Flags:

A = Result acceptable.....|Bias| <= 20%

W = Result acceptable with warning.....20% < |Bias| <= 30%

N = Result not acceptable.....|Bias| > 30%

RW = Report Warning

NR = Not Reported

Uncertainty Flags:

N = NOT ACCEPTABLE.....RP < 2%

A = ACCEPTABLE.....2% <= RP <= 15%

W = ACCEPTABLE WITH WARNING.....15% <= RP <= 30%

N = NOT ACCEPTABLE.....RP > 30%

Relative Precision (RP) = (Reported Uncertainty / Reported Result) x 100

Notes:

(1) = False Positive

(2) = False Negative

(4) = Sensitivity Evaluation

(6) = Not Evaluated

(11) = False Positive Test, Result Not Reported

(17) = NOT DETECTED - reported a statistically zero result

(18) = Sensitivity Evaluation, Value Not Reported

(25) = Result not reported with other gamma results

(28) = Not Reporting Previously Reported Analyte

(29) = Statistically significant negative value at 3 standard deviations



Laboratory Results For MAPEP-25-MaW53
(ESDE01) Region 5 EQC Tritium Lab
206 Beaufort NE
Aiken, SC 29801

Inorganic							Units: (mg/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Antimony	NR	0.00017				Sensitivity Evaluation		
Arsenic	NR	0.00181				0.00127 - 0.00235		
Barium	NR	0.0604				0.0423 - 0.0785		
Beryllium	NR	0.443				0.310 - 0.576		
Cadmium	NR	0.308				0.216 - 0.400		
Chromium	NR	0.328				0.230 - 0.426		
Cobalt	NR	0.300				0.210 - 0.390		
Copper	NR	0.428				0.300 - 0.556		
Lead	NR	0.155				0.109 - 0.202		
Mercury	NR	0.0718				0.0503 - 0.0933		
Nickel	NR	0.371				0.260 - 0.482		
Selenium	NR	0.394				0.276 - 0.512		
Technetium-99	NR					False Positive Test		
Thallium	NR	0.245				0.172 - 0.319		
Uranium-235	NR	2.35E-4				1.65E-4 - 3.06E-4		
Uranium-238	NR	0.0325				0.0228 - 0.0423		
Uranium-Total	NR	0.0327				0.0229 - 0.0425		
Vanadium	NR	0.400				0.280 - 0.520		
Zinc	NR	0.564				0.395 - 0.733		

Radiological							Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	NR	0.361				0.253 - 0.469		
Cerium-139	NR	26.4				18.5 - 34.3		
Cesium-134	NR	7.34				5.14 - 9.54		
Cesium-137	NR	6.7				4.7 - 8.7		
Cobalt-57	NR					False Positive Test		
Cobalt-60	NR	7.24				5.07 - 9.41		
Hydrogen-3	306	276	A		10.9	193 - 359	9.7	A
Iron-55	NR	33.0				23.1 - 42.9		
Manganese-54	NR	7.95				5.57 - 10.34		
Nickel-63	NR	25.0				17.5 - 32.5		
Plutonium-238	NR	0.0019				Sensitivity Evaluation		
Plutonium-239/240	NR	0.0037				Sensitivity Evaluation		
Potassium-40	NR					False Positive Test		

Radiological						Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Radium-226	NR	0.407				0.285 - 0.529	
Strontium-90	NR	3.02				2.11 - 3.93	
Technetium-99	NR					False Positive Test	
Uranium-234	NR	0.426				0.298 - 0.554	
Uranium-238	NR	0.404				0.283 - 0.525	
Zinc-65	NR	23.1				16.2 - 30.0	

Radiological Reference Date: August 1, 2025

Results Flags:

A = Result acceptable.....|Bias| ≤ 20%

W = Result acceptable with warning.....20% < |Bias| ≤ 30%

N = Result not acceptable.....|Bias| > 30%

RW = Report Warning

NR = Not Reported

Uncertainty Flags:

N = NOT ACCEPTABLE.....RP < 2%

A = ACCEPTABLE.....2% ≤ RP ≤ 15%

W = ACCEPTABLE WITH WARNING.....15% ≤ RP ≤ 30%

N = NOT ACCEPTABLE.....RP > 30%

Relative Precision (RP) = (Reported Uncertainty / Reported Result) x 100

Notes:

(1) = False Positive

(2) = False Negative

(4) = Sensitivity Evaluation

(6) = Not Evaluated

(11) = False Positive Test, Result Not Reported

(17) = NOT DETECTED - reported a statistically zero result

(18) = Sensitivity Evaluation, Value Not Reported

(25) = Result not reported with other gamma results

(28) = Not Reporting Previously Reported Analyte

(29) = Statistically significant negative value at 3 standard deviations



Laboratory Results For MAPEP-25-MaW53

(ETTP01) MCLinc

161 Mitchell Road

Oak Ridge, Tennessee 37830

Inorganic							Units: (mg/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Antimony	0.063	0.00017	A	(17)		Sensitivity Evaluation	0.61	
Arsenic	0.031	0.00181	N		1612.7	0.00127 - 0.00235	0.24	N
Barium	0.059	0.0604	A		-2.3	0.0423 - 0.0785	0.0042	A
Beryllium	0.44	0.443	A		-0.7	0.310 - 0.576	0.044	A
Cadmium	0.30	0.308	A		-2.6	0.216 - 0.400	0.012	A
Chromium	0.33	0.328	A		0.6	0.230 - 0.426	0.018	A
Cobalt	0.27	0.300	A		-10.0	0.210 - 0.390	0.017	A
Copper	0.39	0.428	A		-8.9	0.300 - 0.556	0.029	A
Lead	0.14	0.155	A		-9.7	0.109 - 0.202	0.0084	A
Mercury	0.081	0.0718	A		12.8	0.0503 - 0.0933	0.0041	A
Nickel	0.35	0.371	A		-5.7	0.260 - 0.482	0.042	A
Selenium	0.38	0.394	A		-3.6	0.276 - 0.512	0.034	A
Technetium-99	0.00050		A			False Positive Test	0.005	
Thallium	0.23	0.245	A		-6.1	0.172 - 0.319	0.022	A
Uranium-235	0.00025	2.35E-4	A		6.4	1.65E-4 - 3.06E-4	0.000012	A
Uranium-238	0.030	0.0325	A		-7.7	0.0228 - 0.0423	0.0015	A
Uranium-Total	0.0302	0.0327	A		-7.6	0.0229 - 0.0425	0.0015	A
Vanadium	0.43	0.400	A		7.5	0.280 - 0.520	0.029	A
Zinc	0.51	0.564	A		-9.6	0.395 - 0.733	0.063	A

Radiological							Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	NR	0.361				0.253 - 0.469		
Cerium-139	NR	26.4				18.5 - 34.3		
Cesium-134	NR	7.34				5.14 - 9.54		
Cesium-137	NR	6.7				4.7 - 8.7		
Cobalt-57	NR					False Positive Test		
Cobalt-60	NR	7.24				5.07 - 9.41		
Hydrogen-3	NR	276				193 - 359		
Iron-55	NR	33.0				23.1 - 42.9		
Manganese-54	NR	7.95				5.57 - 10.34		
Nickel-63	NR	25.0				17.5 - 32.5		
Plutonium-238	NR	0.0019				Sensitivity Evaluation		
Plutonium-239/240	NR	0.0037				Sensitivity Evaluation		
Potassium-40	NR					False Positive Test		

Radiological						Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Radium-226	NR	0.407				0.285 - 0.529	
Strontium-90	NR	3.02				2.11 - 3.93	
Technetium-99	0.2986		A			False Positive Test	1.0
Uranium-234	NR	0.426				0.298 - 0.554	
Uranium-238	NR	0.404				0.283 - 0.525	
Zinc-65	NR	23.1				16.2 - 30.0	

Radiological Reference Date: August 1, 2025

Results Flags:

A = Result acceptable.....|Bias| ≤ 20%

W = Result acceptable with warning.....20% < |Bias| ≤ 30%

N = Result not acceptable.....|Bias| > 30%

RW = Report Warning

NR = Not Reported

Uncertainty Flags:

N = NOT ACCEPTABLE.....RP < 2%

A = ACCEPTABLE.....2% ≤ RP ≤ 15%

W = ACCEPTABLE WITH WARNING.....15% ≤ RP ≤ 30%

N = NOT ACCEPTABLE.....RP > 30%

Relative Precision (RP) = (Reported Uncertainty / Reported Result) x 100

Notes:

(1) = False Positive

(2) = False Negative

(4) = Sensitivity Evaluation

(6) = Not Evaluated

(11) = False Positive Test, Result Not Reported

(17) = NOT DETECTED - reported a statistically zero result

(18) = Sensitivity Evaluation, Value Not Reported

(25) = Result not reported with other gamma results

(28) = Not Reporting Previously Reported Analyte

(29) = Statistically significant negative value at 3 standard deviations



Laboratory Results For MAPEP-25-MaW53

(FANR79) Federal Authority for Nuclear Regulation, Environmental Laboratory

Zayed University, gate number 5

Abu Dhabi, Abu Dhabi 00971

Inorganic							Units: (mg/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Antimony	NR	0.00017				Sensitivity Evaluation		
Arsenic	NR	0.00181				0.00127 - 0.00235		
Barium	NR	0.0604				0.0423 - 0.0785		
Beryllium	NR	0.443				0.310 - 0.576		
Cadmium	NR	0.308				0.216 - 0.400		
Chromium	NR	0.328				0.230 - 0.426		
Cobalt	NR	0.300				0.210 - 0.390		
Copper	NR	0.428				0.300 - 0.556		
Lead	NR	0.155				0.109 - 0.202		
Mercury	NR	0.0718				0.0503 - 0.0933		
Nickel	NR	0.371				0.260 - 0.482		
Selenium	NR	0.394				0.276 - 0.512		
Technetium-99	NR					False Positive Test		
Thallium	NR	0.245				0.172 - 0.319		
Uranium-235	NR	2.35E-4				1.65E-4 - 3.06E-4		
Uranium-238	NR	0.0325				0.0228 - 0.0423		
Uranium-Total	NR	0.0327				0.0229 - 0.0425		
Vanadium	NR	0.400				0.280 - 0.520		
Zinc	NR	0.564				0.395 - 0.733		

Radiological							Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	NR	0.361				0.253 - 0.469		
Cerium-139	26.4	26.4	A		0.0	18.5 - 34.3	3.23	A
Cesium-134	6.38	7.34	A		-13.1	5.14 - 9.54	0.226	A
Cesium-137	6.61	6.7	A		-1.3	4.7 - 8.7	0.309	A
Cobalt-57	NR		N	(11)		False Positive Test		
Cobalt-60	7.30	7.24	A		0.8	5.07 - 9.41	0.268	A
Hydrogen-3	294.59	276	A		6.7	193 - 359	21.28	A
Iron-55	NR	33.0				23.1 - 42.9		
Manganese-54	7.85	7.95	A		-1.3	5.57 - 10.34	0.394	A
Nickel-63	NR	25.0				17.5 - 32.5		
Plutonium-238	NR	0.0019				Sensitivity Evaluation		
Plutonium-239/240	NR	0.0037				Sensitivity Evaluation		
Potassium-40	NR		N	(11)		False Positive Test		

Radiological						Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Radium-226	NR	0.407				0.285 - 0.529	
Strontium-90	NR	3.02				2.11 - 3.93	
Technetium-99	NR					False Positive Test	
Uranium-234	NR	0.426				0.298 - 0.554	
Uranium-238	NR	0.404				0.283 - 0.525	
Zinc-65	22.2	23.1	A		-3.9	16.2 - 30.0	0.887 A

Radiological Reference Date: August 1, 2025

Results Flags:

A = Result acceptable.....|Bias| <= 20%

W = Result acceptable with warning.....20% < |Bias| <= 30%

N = Result not acceptable.....|Bias| > 30%

RW = Report Warning

NR = Not Reported

Uncertainty Flags:

N = NOT ACCEPTABLE.....RP < 2%

A = ACCEPTABLE.....2% <= RP <= 15%

W = ACCEPTABLE WITH WARNING.....15% <= RP <= 30%

N = NOT ACCEPTABLE.....RP > 30%

Relative Precision (RP) = (Reported Uncertainty / Reported Result) x 100

Notes:

(1) = False Positive

(2) = False Negative

(4) = Sensitivity Evaluation

(6) = Not Evaluated

(11) = False Positive Test, Result Not Reported

(17) = NOT DETECTED - reported a statistically zero result

(18) = Sensitivity Evaluation, Value Not Reported

(25) = Result not reported with other gamma results

(28) = Not Reporting Previously Reported Analyte

(29) = Statistically significant negative value at 3 standard deviations



Laboratory Results For MAPEP-25-MaW53

(FDHE01) Florida Dept of Health Environmental Laboratory
2100 All Childrens Way
Orlando, FL 32818-5271

Inorganic							Units: (mg/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Antimony	NR	0.00017				Sensitivity Evaluation		
Arsenic	NR	0.00181				0.00127 - 0.00235		
Barium	NR	0.0604				0.0423 - 0.0785		
Beryllium	NR	0.443				0.310 - 0.576		
Cadmium	NR	0.308				0.216 - 0.400		
Chromium	NR	0.328				0.230 - 0.426		
Cobalt	NR	0.300				0.210 - 0.390		
Copper	NR	0.428				0.300 - 0.556		
Lead	NR	0.155				0.109 - 0.202		
Mercury	NR	0.0718				0.0503 - 0.0933		
Nickel	NR	0.371				0.260 - 0.482		
Selenium	NR	0.394				0.276 - 0.512		
Technetium-99	NR					False Positive Test		
Thallium	NR	0.245				0.172 - 0.319		
Uranium-235	NR	2.35E-4				1.65E-4 - 3.06E-4		
Uranium-238	NR	0.0325				0.0228 - 0.0423		
Uranium-Total	NR	0.0327				0.0229 - 0.0425		
Vanadium	NR	0.400				0.280 - 0.520		
Zinc	NR	0.564				0.395 - 0.733		

Radiological							Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	0.322	0.361	A		-10.8	0.253 - 0.469	0.277	N
Cerium-139	NR	26.4				18.5 - 34.3		
Cesium-134	7.587	7.34	A		3.4	5.14 - 9.54	0.128	N
Cesium-137	6.569	6.7	A		-2.0	4.7 - 8.7	0.17	A
Cobalt-57	0.002		A			False Positive Test	0.255	
Cobalt-60	6.961	7.24	A		-3.9	5.07 - 9.41	0.183	A
Hydrogen-3	270.66	276	A		-1.9	193 - 359	15	A
Iron-55	NR	33.0				23.1 - 42.9		
Manganese-54	7.743	7.95	A		-2.6	5.57 - 10.34	0.226	A
Nickel-63	NR	25.0				17.5 - 32.5		
Plutonium-238	0.044	0.0019	A	(17)		Sensitivity Evaluation	0.04	
Plutonium-239/240	0.022	0.0037	A	(17)		Sensitivity Evaluation	0.04	
Potassium-40	0.263		A			False Positive Test	0.372	

Radiological						Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Radium-226	0.405	0.407	A		-0.5	0.285 - 0.529	0.063 W
Strontium-90	3.24	3.02	A		7.3	2.11 - 3.93	0.4 A
Technetium-99	NR					False Positive Test	
Uranium-234	0.462	0.426	A		8.5	0.298 - 0.554	0.1 W
Uranium-238	0.445	0.404	A		10.1	0.283 - 0.525	0.1 W
Zinc-65	23.95	23.1	A		3.7	16.2 - 30.0	0.746 A

Radiological Reference Date: August 1, 2025

Results Flags:

A = Result acceptable.....|Bias| <= 20%

W = Result acceptable with warning.....20% < |Bias| <= 30%

N = Result not acceptable.....|Bias| > 30%

RW = Report Warning

NR = Not Reported

Uncertainty Flags:

N = NOT ACCEPTABLE.....RP < 2%

A = ACCEPTABLE.....2% <= RP <= 15%

W = ACCEPTABLE WITH WARNING.....15% <= RP <= 30%

N = NOT ACCEPTABLE.....RP > 30%

Relative Precision (RP) = (Reported Uncertainty / Reported Result) x 100

Notes:

(1) = False Positive

(2) = False Negative

(4) = Sensitivity Evaluation

(6) = Not Evaluated

(11) = False Positive Test, Result Not Reported

(17) = NOT DETECTED - reported a statistically zero result

(18) = Sensitivity Evaluation, Value Not Reported

(25) = Result not reported with other gamma results

(28) = Not Reporting Previously Reported Analyte

(29) = Statistically significant negative value at 3 standard deviations



Laboratory Results For MAPEP-25-MaW53

(FDOH01) Florida Dept. of Health, Mobile Environmental Radiological Lab
2100 All Childrens Way
Orlando, FL 32818-5271

Inorganic							Units: (mg/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Antimony	NR	0.00017				Sensitivity Evaluation		
Arsenic	NR	0.00181				0.00127 - 0.00235		
Barium	NR	0.0604				0.0423 - 0.0785		
Beryllium	NR	0.443				0.310 - 0.576		
Cadmium	NR	0.308				0.216 - 0.400		
Chromium	NR	0.328				0.230 - 0.426		
Cobalt	NR	0.300				0.210 - 0.390		
Copper	NR	0.428				0.300 - 0.556		
Lead	NR	0.155				0.109 - 0.202		
Mercury	NR	0.0718				0.0503 - 0.0933		
Nickel	NR	0.371				0.260 - 0.482		
Selenium	NR	0.394				0.276 - 0.512		
Technetium-99	NR					False Positive Test		
Thallium	NR	0.245				0.172 - 0.319		
Uranium-235	NR	2.35E-4				1.65E-4 - 3.06E-4		
Uranium-238	NR	0.0325				0.0228 - 0.0423		
Uranium-Total	NR	0.0327				0.0229 - 0.0425		
Vanadium	NR	0.400				0.280 - 0.520		
Zinc	NR	0.564				0.395 - 0.733		

Radiological							Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	0.344	0.361	A		-4.7	0.253 - 0.469	0.073	W
Cerium-139	NR	26.4				18.5 - 34.3		
Cesium-134	7.83	7.34	A		6.7	5.14 - 9.54	0.15	N
Cesium-137	6.48	6.7	A		-3.3	4.7 - 8.7	0.13	A
Cobalt-57	-0.033		A			False Positive Test	0.131	
Cobalt-60	7.04	7.24	A		-2.8	5.07 - 9.41	0.13	N
Hydrogen-3	NR	276				193 - 359		
Iron-55	NR	33.0				23.1 - 42.9		
Manganese-54	7.62	7.95	A		-4.2	5.57 - 10.34	0.15	N
Nickel-63	NR	25.0				17.5 - 32.5		
Plutonium-238	NR	0.0019				Sensitivity Evaluation		
Plutonium-239/240	NR	0.0037				Sensitivity Evaluation		
Potassium-40	1.13		A			False Positive Test	1.13	

Radiological						Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Radium-226	NR	0.407				0.285 - 0.529	
Strontium-90	NR	3.02				2.11 - 3.93	
Technetium-99	NR					False Positive Test	
Uranium-234	NR	0.426				0.298 - 0.554	
Uranium-238	0.496	0.404	W		22.8	0.283 - 0.525	0.21 N
Zinc-65	23.8	23.1	A		3.0	16.2 - 30.0	0.59 A

Radiological Reference Date: August 1, 2025

Results Flags:

A = Result acceptable.....|Bias| ≤ 20%

W = Result acceptable with warning.....20% < |Bias| ≤ 30%

N = Result not acceptable.....|Bias| > 30%

RW = Report Warning

NR = Not Reported

Uncertainty Flags:

N = NOT ACCEPTABLE.....RP < 2%

A = ACCEPTABLE.....2% ≤ RP ≤ 15%

W = ACCEPTABLE WITH WARNING.....15% ≤ RP ≤ 30%

N = NOT ACCEPTABLE.....RP > 30%

Relative Precision (RP) = (Reported Uncertainty / Reported Result) x 100

Notes:

- (1) = False Positive
- (2) = False Negative
- (4) = Sensitivity Evaluation
- (6) = Not Evaluated
- (11) = False Positive Test, Result Not Reported
- (17) = NOT DETECTED - reported a statistically zero result
- (18) = Sensitivity Evaluation, Value Not Reported
- (25) = Result not reported with other gamma results
- (28) = Not Reporting Previously Reported Analyte
- (29) = Statistically significant negative value at 3 standard deviations



Laboratory Results For MAPEP-25-MaW53

(FNAL01) Fermi National Accelerator Laboratory (FermiLab)

PO Box 500, MS325

Batavia, IL 60510

Inorganic							Units: (mg/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Antimony	NR	0.00017				Sensitivity Evaluation		
Arsenic	NR	0.00181				0.00127 - 0.00235		
Barium	NR	0.0604				0.0423 - 0.0785		
Beryllium	NR	0.443				0.310 - 0.576		
Cadmium	NR	0.308				0.216 - 0.400		
Chromium	NR	0.328				0.230 - 0.426		
Cobalt	NR	0.300				0.210 - 0.390		
Copper	NR	0.428				0.300 - 0.556		
Lead	NR	0.155				0.109 - 0.202		
Mercury	NR	0.0718				0.0503 - 0.0933		
Nickel	NR	0.371				0.260 - 0.482		
Selenium	NR	0.394				0.276 - 0.512		
Technetium-99	NR					False Positive Test		
Thallium	NR	0.245				0.172 - 0.319		
Uranium-235	NR	2.35E-4				1.65E-4 - 3.06E-4		
Uranium-238	NR	0.0325				0.0228 - 0.0423		
Uranium-Total	NR	0.0327				0.0229 - 0.0425		
Vanadium	NR	0.400				0.280 - 0.520		
Zinc	NR	0.564				0.395 - 0.733		

Radiological							Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	NR	0.361				0.253 - 0.469		
Cerium-139	28.18	26.4	A		6.7	18.5 - 34.3	1.16	A
Cesium-134	6.67	7.34	A		-9.1	5.14 - 9.54	0.28	A
Cesium-137	6.61	6.7	A		-1.3	4.7 - 8.7	0.29	A
Cobalt-57	0.12		A			False Positive Test	0.19	
Cobalt-60	7.44	7.24	A		2.8	5.07 - 9.41	0.32	A
Hydrogen-3	298	276	A		8.0	193 - 359	12	A
Iron-55	NR	33.0				23.1 - 42.9		
Manganese-54	8.14	7.95	A		2.4	5.57 - 10.34	0.36	A
Nickel-63	NR	25.0				17.5 - 32.5		
Plutonium-238	NR	0.0019				Sensitivity Evaluation		
Plutonium-239/240	NR	0.0037				Sensitivity Evaluation		
Potassium-40	-0.15		A			False Positive Test	1.01	

Radiological						Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Radium-226	NR	0.407				0.285 - 0.529	
Strontium-90	NR	3.02				2.11 - 3.93	
Technetium-99	NR					False Positive Test	
Uranium-234	NR	0.426				0.298 - 0.554	
Uranium-238	NR	0.404				0.283 - 0.525	
Zinc-65	24.77	23.1	A		7.2	16.2 - 30.0	1.06 A

Radiological Reference Date: August 1, 2025

Results Flags:

A = Result acceptable.....|Bias| <= 20%

W = Result acceptable with warning.....20% < |Bias| <= 30%

N = Result not acceptable.....|Bias| > 30%

RW = Report Warning

NR = Not Reported

Uncertainty Flags:

N = NOT ACCEPTABLE.....RP < 2%

A = ACCEPTABLE.....2% <= RP <= 15%

W = ACCEPTABLE WITH WARNING.....15% <= RP <= 30%

N = NOT ACCEPTABLE.....RP > 30%

Relative Precision (RP) = (Reported Uncertainty / Reported Result) x 100

Notes:

(1) = False Positive

(2) = False Negative

(4) = Sensitivity Evaluation

(6) = Not Evaluated

(11) = False Positive Test, Result Not Reported

(17) = NOT DETECTED - reported a statistically zero result

(18) = Sensitivity Evaluation, Value Not Reported

(25) = Result not reported with other gamma results

(28) = Not Reporting Previously Reported Analyte

(29) = Statistically significant negative value at 3 standard deviations



Laboratory Results For MAPEP-25-MaW53

(GENE01) GEL Laboratories, LLC

2040 Savage Road

Charleston, SC 29407

Inorganic							Units: (mg/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Antimony	0.000146	0.00017	A	(17)		Sensitivity Evaluation	0.000335	
Arsenic	0.00217	0.00181	A		19.9	0.00127 - 0.00235	0.000796	N
Barium	0.0590	0.0604	A		-2.3	0.0423 - 0.0785	0.0118	W
Beryllium	0.486	0.443	A		9.7	0.310 - 0.576	0.0972	W
Cadmium	0.275	0.308	A		-10.7	0.216 - 0.400	0.0550	W
Chromium	0.311	0.328	A		-5.2	0.230 - 0.426	0.0623	W
Cobalt	0.273	0.300	A		-9.0	0.210 - 0.390	0.0546	W
Copper	0.365	0.428	A		-14.7	0.300 - 0.556	0.0731	W
Lead	0.140	0.155	A		-9.7	0.109 - 0.202	0.0281	W
Mercury	0.0702	0.0718	A		-2.2	0.0503 - 0.0933	0.0141	W
Nickel	0.325	0.371	A		-12.4	0.260 - 0.482	0.0650	W
Selenium	0.310	0.394	W		-21.3	0.276 - 0.512	0.0621	W
Technetium-99	5.13E-07		A			False Positive Test	2.7E-07	
Thallium	0.219	0.245	A		-10.6	0.172 - 0.319	0.0438	W
Uranium-235	0.000216	2.35E-4	A		-8.1	1.65E-4 - 3.06E-4	0.000043	W
Uranium-238	0.0299	0.0325	A		-8.0	0.0228 - 0.0423	0.00598	W
Uranium-Total	0.0301	0.0327	A		-8.0	0.0229 - 0.0425	0.0889	N
Vanadium	0.404	0.400	A		1.0	0.280 - 0.520	0.0809	W
Zinc	0.445	0.564	W		-21.1	0.395 - 0.733	0.0889	W

Radiological							Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	0.368	0.361	A		1.9	0.253 - 0.469	0.0265	A
Cerium-139	27.3	26.4	A		3.4	18.5 - 34.3	2.96	A
Cesium-134	6.57	7.34	A		-10.5	5.14 - 9.54	0.354	A
Cesium-137	6.69	6.7	A		-0.1	4.7 - 8.7	0.319	A
Cobalt-57	0.0111		A			False Positive Test	0.0459	
Cobalt-60	7.17	7.24	A		-1.0	5.07 - 9.41	0.416	A
Hydrogen-3	252	276	A		-8.7	193 - 359	26.8	A
Iron-55	31.7	33.0	A		-3.9	23.1 - 42.9	3.34	A
Manganese-54	7.93	7.95	A		-0.3	5.57 - 10.34	0.430	A
Nickel-63	21.2	25.0	A		-15.2	17.5 - 32.5	1.82	A
Plutonium-238	-0.00369	0.0019	A	(17)		Sensitivity Evaluation	0.00367	
Plutonium-239/240	0.00805	0.0037	A	(17)		Sensitivity Evaluation	0.00517	
Potassium-40	-1.10		A			False Positive Test	0.795	

Radiological						Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Radium-226	0.343	0.407	A		-15.7	0.285 - 0.529	0.0583 W
Strontium-90	2.62	3.02	A		-13.2	2.11 - 3.93	0.224 A
Technetium-99	-0.363		A			False Positive Test	0.557
Uranium-234	0.399	0.426	A		-6.3	0.298 - 0.554	0.0269 A
Uranium-238	0.373	0.404	A		-7.7	0.283 - 0.525	0.0254 A
Zinc-65	24.7	23.1	A		6.9	16.2 - 30.0	1.23 A

Radiological Reference Date: August 1, 2025

Results Flags:

A = Result acceptable.....|Bias| <= 20%

W = Result acceptable with warning.....20% < |Bias| <= 30%

N = Result not acceptable.....|Bias| > 30%

RW = Report Warning

NR = Not Reported

Uncertainty Flags:

N = NOT ACCEPTABLE.....RP < 2%

A = ACCEPTABLE.....2% <= RP <= 15%

W = ACCEPTABLE WITH WARNING.....15% <= RP <= 30%

N = NOT ACCEPTABLE.....RP > 30%

Relative Precision (RP) = (Reported Uncertainty / Reported Result) x 100

Notes:

(1) = False Positive

(2) = False Negative

(4) = Sensitivity Evaluation

(6) = Not Evaluated

(11) = False Positive Test, Result Not Reported

(17) = NOT DETECTED - reported a statistically zero result

(18) = Sensitivity Evaluation, Value Not Reported

(25) = Result not reported with other gamma results

(28) = Not Reporting Previously Reported Analyte

(29) = Statistically significant negative value at 3 standard deviations



Laboratory Results For MAPEP-25-MaW53

(GPCL01) Georgia Power Company Environmental Laboratory
2480 Maner Road
Atlanta, GA 30339

Inorganic							Units: (mg/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Antimony	NR	0.00017				Sensitivity Evaluation		
Arsenic	NR	0.00181				0.00127 - 0.00235		
Barium	NR	0.0604				0.0423 - 0.0785		
Beryllium	NR	0.443				0.310 - 0.576		
Cadmium	NR	0.308				0.216 - 0.400		
Chromium	NR	0.328				0.230 - 0.426		
Cobalt	NR	0.300				0.210 - 0.390		
Copper	NR	0.428				0.300 - 0.556		
Lead	NR	0.155				0.109 - 0.202		
Mercury	NR	0.0718				0.0503 - 0.0933		
Nickel	NR	0.371				0.260 - 0.482		
Selenium	NR	0.394				0.276 - 0.512		
Technetium-99	NR					False Positive Test		
Thallium	NR	0.245				0.172 - 0.319		
Uranium-235	NR	2.35E-4				1.65E-4 - 3.06E-4		
Uranium-238	NR	0.0325				0.0228 - 0.0423		
Uranium-Total	NR	0.0327				0.0229 - 0.0425		
Vanadium	NR	0.400				0.280 - 0.520		
Zinc	NR	0.564				0.395 - 0.733		

Radiological							Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	NR	0.361				0.253 - 0.469		
Cerium-139	NR	26.4				18.5 - 34.3		
Cesium-134	7.18	7.34	A		-2.2	5.14 - 9.54	0.51	A
Cesium-137	6.9026	6.7	A		3.0	4.7 - 8.7	0.61	A
Cobalt-57	0.0363		A			False Positive Test	0.35	
Cobalt-60	7.1892	7.24	A		-0.7	5.07 - 9.41	0.55	A
Hydrogen-3	271.95	276	A		-1.5	193 - 359	13.92	A
Iron-55	NR	33.0				23.1 - 42.9		
Manganese-54	8.2387	7.95	A		3.6	5.57 - 10.34	0.7	A
Nickel-63	NR	25.0				17.5 - 32.5		
Plutonium-238	NR	0.0019				Sensitivity Evaluation		
Plutonium-239/240	NR	0.0037				Sensitivity Evaluation		
Potassium-40	-5.021		A			False Positive Test	4.73	

Radiological						Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Radium-226	NR	0.407				0.285 - 0.529	
Strontium-90	2.9119	3.02	A		-3.6	2.11 - 3.93	0.2681 A
Technetium-99	NR					False Positive Test	
Uranium-234	NR	0.426				0.298 - 0.554	
Uranium-238	NR	0.404				0.283 - 0.525	
Zinc-65	24.0804	23.1	A		4.2	16.2 - 30.0	1.94 A

Radiological Reference Date: August 1, 2025

Results Flags:

A = Result acceptable.....|Bias| ≤ 20%

W = Result acceptable with warning.....20% < |Bias| ≤ 30%

N = Result not acceptable.....|Bias| > 30%

RW = Report Warning

NR = Not Reported

Uncertainty Flags:

N = NOT ACCEPTABLE.....RP < 2%

A = ACCEPTABLE.....2% ≤ RP ≤ 15%

W = ACCEPTABLE WITH WARNING.....15% ≤ RP ≤ 30%

N = NOT ACCEPTABLE.....RP > 30%

Relative Precision (RP) = (Reported Uncertainty / Reported Result) x 100

Notes:

- (1) = False Positive
- (2) = False Negative
- (4) = Sensitivity Evaluation
- (6) = Not Evaluated
- (11) = False Positive Test, Result Not Reported
- (17) = NOT DETECTED - reported a statistically zero result
- (18) = Sensitivity Evaluation, Value Not Reported
- (25) = Result not reported with other gamma results
- (28) = Not Reporting Previously Reported Analyte
- (29) = Statistically significant negative value at 3 standard deviations



Laboratory Results For MAPEP-25-MaW53
(HCAL01) Lawrence Livermore National Laboratory
Analytical Services and Instrumentation Analytical Lab
Livermore, CA 94550

Inorganic							Units: (mg/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Antimony	NR	0.00017				Sensitivity Evaluation		
Arsenic	NR	0.00181				0.00127 - 0.00235		
Barium	NR	0.0604				0.0423 - 0.0785		
Beryllium	NR	0.443				0.310 - 0.576		
Cadmium	NR	0.308				0.216 - 0.400		
Chromium	NR	0.328				0.230 - 0.426		
Cobalt	NR	0.300				0.210 - 0.390		
Copper	NR	0.428				0.300 - 0.556		
Lead	NR	0.155				0.109 - 0.202		
Mercury	NR	0.0718				0.0503 - 0.0933		
Nickel	NR	0.371				0.260 - 0.482		
Selenium	NR	0.394				0.276 - 0.512		
Technetium-99	NR					False Positive Test		
Thallium	NR	0.245				0.172 - 0.319		
Uranium-235	NR	2.35E-4				1.65E-4 - 3.06E-4		
Uranium-238	NR	0.0325				0.0228 - 0.0423		
Uranium-Total	NR	0.0327				0.0229 - 0.0425		
Vanadium	NR	0.400				0.280 - 0.520		
Zinc	NR	0.564				0.395 - 0.733		

Radiological							Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	NR	0.361				0.253 - 0.469		
Cerium-139	NR	26.4				18.5 - 34.3		
Cesium-134	NR	7.34				5.14 - 9.54		
Cesium-137	NR	6.7				4.7 - 8.7		
Cobalt-57	NR					False Positive Test		
Cobalt-60	NR	7.24				5.07 - 9.41		
Hydrogen-3	263	276	A		-4.7	193 - 359	14	A
Iron-55	NR	33.0				23.1 - 42.9		
Manganese-54	NR	7.95				5.57 - 10.34		
Nickel-63	NR	25.0				17.5 - 32.5		
Plutonium-238	NR	0.0019				Sensitivity Evaluation		
Plutonium-239/240	NR	0.0037				Sensitivity Evaluation		
Potassium-40	NR					False Positive Test		

Radiological						Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Radium-226	NR	0.407				0.285 - 0.529	
Strontium-90	NR	3.02				2.11 - 3.93	
Technetium-99	NR					False Positive Test	
Uranium-234	NR	0.426				0.298 - 0.554	
Uranium-238	NR	0.404				0.283 - 0.525	
Zinc-65	NR	23.1				16.2 - 30.0	

Radiological Reference Date: August 1, 2025

Results Flags:

A = Result acceptable.....|Bias| ≤ 20%

W = Result acceptable with warning.....20% < |Bias| ≤ 30%

N = Result not acceptable.....|Bias| > 30%

RW = Report Warning

NR = Not Reported

Uncertainty Flags:

N = NOT ACCEPTABLE.....RP < 2%

A = ACCEPTABLE.....2% ≤ RP ≤ 15%

W = ACCEPTABLE WITH WARNING.....15% ≤ RP ≤ 30%

N = NOT ACCEPTABLE.....RP > 30%

Relative Precision (RP) = (Reported Uncertainty / Reported Result) x 100

Notes:

(1) = False Positive

(2) = False Negative

(4) = Sensitivity Evaluation

(6) = Not Evaluated

(11) = False Positive Test, Result Not Reported

(17) = NOT DETECTED - reported a statistically zero result

(18) = Sensitivity Evaluation, Value Not Reported

(25) = Result not reported with other gamma results

(28) = Not Reporting Previously Reported Analyte

(29) = Statistically significant negative value at 3 standard deviations



Laboratory Results For MAPEP-25-MaW53
(HECR01) SC Department of Environmental Services
8231 Parklane Road
Columbia, SC 29223

Inorganic							Units: (mg/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Antimony	NR	0.00017				Sensitivity Evaluation		
Arsenic	NR	0.00181				0.00127 - 0.00235		
Barium	NR	0.0604				0.0423 - 0.0785		
Beryllium	NR	0.443				0.310 - 0.576		
Cadmium	NR	0.308				0.216 - 0.400		
Chromium	NR	0.328				0.230 - 0.426		
Cobalt	NR	0.300				0.210 - 0.390		
Copper	NR	0.428				0.300 - 0.556		
Lead	NR	0.155				0.109 - 0.202		
Mercury	NR	0.0718				0.0503 - 0.0933		
Nickel	NR	0.371				0.260 - 0.482		
Selenium	NR	0.394				0.276 - 0.512		
Technetium-99	NR					False Positive Test		
Thallium	NR	0.245				0.172 - 0.319		
Uranium-235	NR	2.35E-4				1.65E-4 - 3.06E-4		
Uranium-238	NR	0.0325				0.0228 - 0.0423		
Uranium-Total	NR	0.0327				0.0229 - 0.0425		
Vanadium	NR	0.400				0.280 - 0.520		
Zinc	NR	0.564				0.395 - 0.733		

Radiological							Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	NR	0.361				0.253 - 0.469		
Cerium-139	NR	26.4				18.5 - 34.3		
Cesium-134	7.240	7.34	A		-1.4	5.14 - 9.54	0.5499	A
Cesium-137	6.617	6.7	A		-1.2	4.7 - 8.7	1.087	W
Cobalt-57	0.2948		A			False Positive Test	0.2241	
Cobalt-60	4.749	7.24	N		-34.4	5.07 - 9.41	0.6064	A
Hydrogen-3	287	276	A		4.0	193 - 359	9.03	A
Iron-55	NR	33.0				23.1 - 42.9		
Manganese-54	8.074	7.95	A		1.6	5.57 - 10.34	1.101	A
Nickel-63	NR	25.0				17.5 - 32.5		
Plutonium-238	NR	0.0019				Sensitivity Evaluation		
Plutonium-239/240	NR	0.0037				Sensitivity Evaluation		
Potassium-40	5.814		N	(1)		False Positive Test	1.161	

Radiological						Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Radium-226	NR	0.407				0.285 - 0.529	
Strontium-90	NR	3.02				2.11 - 3.93	
Technetium-99	NR					False Positive Test	
Uranium-234	NR	0.426				0.298 - 0.554	
Uranium-238	NR	0.404				0.283 - 0.525	
Zinc-65	23.91	23.1	A		3.5	16.2 - 30.0	4.794 W

Radiological Reference Date: August 1, 2025

Results Flags:

A = Result acceptable.....|Bias| ≤ 20%

W = Result acceptable with warning.....20% < |Bias| ≤ 30%

N = Result not acceptable.....|Bias| > 30%

RW = Report Warning

NR = Not Reported

Uncertainty Flags:

N = NOT ACCEPTABLE.....RP < 2%

A = ACCEPTABLE.....2% ≤ RP ≤ 15%

W = ACCEPTABLE WITH WARNING.....15% ≤ RP ≤ 30%

N = NOT ACCEPTABLE.....RP > 30%

Relative Precision (RP) = (Reported Uncertainty / Reported Result) x 100

Notes:

(1) = False Positive

(2) = False Negative

(4) = Sensitivity Evaluation

(6) = Not Evaluated

(11) = False Positive Test, Result Not Reported

(17) = NOT DETECTED - reported a statistically zero result

(18) = Sensitivity Evaluation, Value Not Reported

(25) = Result not reported with other gamma results

(28) = Not Reporting Previously Reported Analyte

(29) = Statistically significant negative value at 3 standard deviations



Laboratory Results For MAPEP-25-MaW53

(HPAC99) UKHSA, RCE Glasgow

155 Hardgate Road

Glasgow, Scotland G51 4LS

Inorganic							Units: (mg/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Antimony	NR	0.00017				Sensitivity Evaluation		
Arsenic	NR	0.00181				0.00127 - 0.00235		
Barium	NR	0.0604				0.0423 - 0.0785		
Beryllium	NR	0.443				0.310 - 0.576		
Cadmium	NR	0.308				0.216 - 0.400		
Chromium	NR	0.328				0.230 - 0.426		
Cobalt	NR	0.300				0.210 - 0.390		
Copper	NR	0.428				0.300 - 0.556		
Lead	NR	0.155				0.109 - 0.202		
Mercury	NR	0.0718				0.0503 - 0.0933		
Nickel	NR	0.371				0.260 - 0.482		
Selenium	NR	0.394				0.276 - 0.512		
Technetium-99	NR					False Positive Test		
Thallium	NR	0.245				0.172 - 0.319		
Uranium-235	NR	2.35E-4				1.65E-4 - 3.06E-4		
Uranium-238	NR	0.0325				0.0228 - 0.0423		
Uranium-Total	NR	0.0327				0.0229 - 0.0425		
Vanadium	NR	0.400				0.280 - 0.520		
Zinc	NR	0.564				0.395 - 0.733		

Radiological							Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	0.363	0.361	A		0.6	0.253 - 0.469	0.025	A
Cerium-139	27.25	26.4	A		3.2	18.5 - 34.3	2.05	A
Cesium-134	7.17	7.34	A		-2.3	5.14 - 9.54	0.51	A
Cesium-137	7.10	6.7	A		6.0	4.7 - 8.7	0.54	A
Cobalt-57	0.20		A			False Positive Test	0.20	
Cobalt-60	7.53	7.24	A		4.0	5.07 - 9.41	0.55	A
Hydrogen-3	270.99	276	A		-1.8	193 - 359	22.32	A
Iron-55	NR	33.0				23.1 - 42.9		
Manganese-54	7.63	7.95	A		-4.0	5.57 - 10.34	0.57	A
Nickel-63	NR	25.0				17.5 - 32.5		
Plutonium-238	0.0081	0.0019	N	(4)		Sensitivity Evaluation	0.0015	
Plutonium-239/240	0.008	0.0037	N	(4)		Sensitivity Evaluation	0.001	
Potassium-40	3.0		A			False Positive Test	3.0	

Radiological						Units: (Bq/L)		
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Radium-226	4.6	0.407	N		1030.2	0.285 - 0.529	4.6	N
Strontium-90	2.12	3.02	W		-29.8	2.11 - 3.93	0.12	A
Technetium-99	NR					False Positive Test		
Uranium-234	0.444	0.426	A		4.2	0.298 - 0.554	0.0275	A
Uranium-238	0.413	0.404	A		2.2	0.283 - 0.525	0.0258	A
Zinc-65	23.51	23.1	A		1.8	16.2 - 30.0	1.75	A

Radiological Reference Date: August 1, 2025

Results Flags:

A = Result acceptable.....|Bias| <= 20%

W = Result acceptable with warning.....20% < |Bias| <= 30%

N = Result not acceptable.....|Bias| > 30%

RW = Report Warning

NR = Not Reported

Uncertainty Flags:

N = NOT ACCEPTABLE.....RP < 2%

A = ACCEPTABLE.....2% <= RP <= 15%

W = ACCEPTABLE WITH WARNING.....15% <= RP <= 30%

N = NOT ACCEPTABLE.....RP > 30%

Relative Precision (RP) = (Reported Uncertainty / Reported Result) x 100

Notes:

- (1) = False Positive
- (2) = False Negative
- (4) = Sensitivity Evaluation
- (6) = Not Evaluated
- (11) = False Positive Test, Result Not Reported
- (17) = NOT DETECTED - reported a statistically zero result
- (18) = Sensitivity Evaluation, Value Not Reported
- (25) = Result not reported with other gamma results
- (28) = Not Reporting Previously Reported Analyte
- (29) = Statistically significant negative value at 3 standard deviations



Laboratory Results For MAPEP-25-MaW53
(IAEA99) International Atomic Energy Agency
Agency's Laboratories Seibersdorf
Seibersdorf, Austria A-2444

Inorganic							Units: (mg/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Antimony	NR	0.00017				Sensitivity Evaluation		
Arsenic	NR	0.00181				0.00127 - 0.00235		
Barium	NR	0.0604				0.0423 - 0.0785		
Beryllium	NR	0.443				0.310 - 0.576		
Cadmium	NR	0.308				0.216 - 0.400		
Chromium	NR	0.328				0.230 - 0.426		
Cobalt	NR	0.300				0.210 - 0.390		
Copper	NR	0.428				0.300 - 0.556		
Lead	NR	0.155				0.109 - 0.202		
Mercury	NR	0.0718				0.0503 - 0.0933		
Nickel	NR	0.371				0.260 - 0.482		
Selenium	NR	0.394				0.276 - 0.512		
Technetium-99	NR					False Positive Test		
Thallium	NR	0.245				0.172 - 0.319		
Uranium-235	0.000234	2.35E-4	A		-0.4	1.65E-4 - 3.06E-4	0.000007	A
Uranium-238	0.0329	0.0325	A		1.2	0.0228 - 0.0423	0.0007	A
Uranium-Total	0.0332	0.0327	A		1.5	0.0229 - 0.0425	0.0007	A
Vanadium	NR	0.400				0.280 - 0.520		
Zinc	NR	0.564				0.395 - 0.733		

Radiological							Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	0.372	0.361	A		3.0	0.253 - 0.469	0.045	A
Cerium-139	26.9	26.4	A		1.9	18.5 - 34.3	0.9	A
Cesium-134	7.09	7.34	A		-3.4	5.14 - 9.54	0.24	A
Cesium-137	6.57	6.7	A		-1.9	4.7 - 8.7	0.19	A
Cobalt-57	NR		N	(11)		False Positive Test		
Cobalt-60	7.14	7.24	A		-1.4	5.07 - 9.41	0.25	A
Hydrogen-3	NR	276				193 - 359		
Iron-55	NR	33.0				23.1 - 42.9		
Manganese-54	7.73	7.95	A		-2.8	5.57 - 10.34	0.26	A
Nickel-63	NR	25.0				17.5 - 32.5		
Plutonium-238	NR	0.0019				Sensitivity Evaluation		
Plutonium-239/240	NR	0.0037				Sensitivity Evaluation		
Potassium-40	1.54		N	(1)		False Positive Test	0.41	

Radiological						Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Radium-226	0.599	0.407	N		47.2	0.285 - 0.529	0.079 A
Strontium-90	NR	3.02				2.11 - 3.93	
Technetium-99	NR					False Positive Test	
Uranium-234	0.431	0.426	A		1.2	0.298 - 0.554	0.009 A
Uranium-238	0.408	0.404	A		1.0	0.283 - 0.525	0.009 A
Zinc-65	22.8	23.1	A		-1.3	16.2 - 30.0	0.6 A

Radiological Reference Date: August 1, 2025

Results Flags:

A = Result acceptable.....|Bias| ≤ 20%

W = Result acceptable with warning.....20% < |Bias| ≤ 30%

N = Result not acceptable.....|Bias| > 30%

RW = Report Warning

NR = Not Reported

Uncertainty Flags:

N = NOT ACCEPTABLE.....RP < 2%

A = ACCEPTABLE.....2% ≤ RP ≤ 15%

W = ACCEPTABLE WITH WARNING.....15% ≤ RP ≤ 30%

N = NOT ACCEPTABLE.....RP > 30%

Relative Precision (RP) = (Reported Uncertainty / Reported Result) x 100

Notes:

- (1) = False Positive
- (2) = False Negative
- (4) = Sensitivity Evaluation
- (6) = Not Evaluated
- (11) = False Positive Test, Result Not Reported
- (17) = NOT DETECTED - reported a statistically zero result
- (18) = Sensitivity Evaluation, Value Not Reported
- (25) = Result not reported with other gamma results
- (28) = Not Reporting Previously Reported Analyte
- (29) = Statistically significant negative value at 3 standard deviations



Laboratory Results For MAPEP-25-MaW53

(IDOH01) Indiana Department of Health

550 W 16th St

Indianapolis, IN 46202

Inorganic							Units: (mg/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Antimony	NR	0.00017				Sensitivity Evaluation		
Arsenic	NR	0.00181				0.00127 - 0.00235		
Barium	NR	0.0604				0.0423 - 0.0785		
Beryllium	NR	0.443				0.310 - 0.576		
Cadmium	NR	0.308				0.216 - 0.400		
Chromium	NR	0.328				0.230 - 0.426		
Cobalt	NR	0.300				0.210 - 0.390		
Copper	NR	0.428				0.300 - 0.556		
Lead	NR	0.155				0.109 - 0.202		
Mercury	NR	0.0718				0.0503 - 0.0933		
Nickel	NR	0.371				0.260 - 0.482		
Selenium	NR	0.394				0.276 - 0.512		
Technetium-99	NR					False Positive Test		
Thallium	NR	0.245				0.172 - 0.319		
Uranium-235	NR	2.35E-4				1.65E-4 - 3.06E-4		
Uranium-238	NR	0.0325				0.0228 - 0.0423		
Uranium-Total	NR	0.0327				0.0229 - 0.0425		
Vanadium	NR	0.400				0.280 - 0.520		
Zinc	NR	0.564				0.395 - 0.733		

Radiological							Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	NR	0.361				0.253 - 0.469		
Cerium-139	24.6	26.4	A		-6.8	18.5 - 34.3	.778	A
Cesium-134	5.83	7.34	W		-20.6	5.14 - 9.54	.289	A
Cesium-137	6.39	6.7	A		-4.6	4.7 - 8.7	.364	A
Cobalt-57	NR		N	(11)		False Positive Test		
Cobalt-60	6.87	7.24	A		-5.1	5.07 - 9.41	.290	A
Hydrogen-3	NR	276				193 - 359		
Iron-55	NR	33.0				23.1 - 42.9		
Manganese-54	7.11	7.95	A		-10.6	5.57 - 10.34	0.422	A
Nickel-63	NR	25.0				17.5 - 32.5		
Plutonium-238	NR	0.0019				Sensitivity Evaluation		
Plutonium-239/240	NR	0.0037				Sensitivity Evaluation		
Potassium-40	NR		N	(11)		False Positive Test		

Radiological						Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Radium-226	NR	0.407				0.285 - 0.529	
Strontium-90	NR	3.02				2.11 - 3.93	
Technetium-99	NR					False Positive Test	
Uranium-234	NR	0.426				0.298 - 0.554	
Uranium-238	NR	0.404				0.283 - 0.525	
Zinc-65	21.5	23.1	A		-6.9	16.2 - 30.0	1.11 A

Radiological Reference Date: August 1, 2025

Results Flags:

A = Result acceptable.....|Bias| ≤ 20%

W = Result acceptable with warning.....20% < |Bias| ≤ 30%

N = Result not acceptable.....|Bias| > 30%

RW = Report Warning

NR = Not Reported

Uncertainty Flags:

N = NOT ACCEPTABLE.....RP < 2%

A = ACCEPTABLE.....2% ≤ RP ≤ 15%

W = ACCEPTABLE WITH WARNING.....15% ≤ RP ≤ 30%

N = NOT ACCEPTABLE.....RP > 30%

Relative Precision (RP) = (Reported Uncertainty / Reported Result) x 100

Notes:

(1) = False Positive

(2) = False Negative

(4) = Sensitivity Evaluation

(6) = Not Evaluated

(11) = False Positive Test, Result Not Reported

(17) = NOT DETECTED - reported a statistically zero result

(18) = Sensitivity Evaluation, Value Not Reported

(25) = Result not reported with other gamma results

(28) = Not Reporting Previously Reported Analyte

(29) = Statistically significant negative value at 3 standard deviations



Laboratory Results For MAPEP-25-MaW53

(IEMA01) Illinois Emergency Management Agency Radiochemistry Laboratory

1301 Knotts St.

Springfield, IL 62703

Inorganic							Units: (mg/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Antimony	NR	0.00017				Sensitivity Evaluation		
Arsenic	NR	0.00181				0.00127 - 0.00235		
Barium	NR	0.0604				0.0423 - 0.0785		
Beryllium	NR	0.443				0.310 - 0.576		
Cadmium	NR	0.308				0.216 - 0.400		
Chromium	NR	0.328				0.230 - 0.426		
Cobalt	NR	0.300				0.210 - 0.390		
Copper	NR	0.428				0.300 - 0.556		
Lead	NR	0.155				0.109 - 0.202		
Mercury	NR	0.0718				0.0503 - 0.0933		
Nickel	NR	0.371				0.260 - 0.482		
Selenium	NR	0.394				0.276 - 0.512		
Technetium-99	NR					False Positive Test		
Thallium	NR	0.245				0.172 - 0.319		
Uranium-235	NR	2.35E-4				1.65E-4 - 3.06E-4		
Uranium-238	NR	0.0325				0.0228 - 0.0423		
Uranium-Total	NR	0.0327				0.0229 - 0.0425		
Vanadium	NR	0.400				0.280 - 0.520		
Zinc	NR	0.564				0.395 - 0.733		

Radiological							Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	0.3711	0.361	A		2.8	0.253 - 0.469	0.0215	A
Cerium-139	27.1	26.4	A		2.7	18.5 - 34.3	0.389	N
Cesium-134	7.29	7.34	A		-0.7	5.14 - 9.54	0.107	N
Cesium-137	6.87	6.7	A		2.5	4.7 - 8.7	0.159	A
Cobalt-57	0.0341		A			False Positive Test	0.050	
Cobalt-60	7.24	7.24	A		0.0	5.07 - 9.41	0.117	N
Hydrogen-3	286	276	A		3.6	193 - 359	3.5	N
Iron-55	NR	33.0				23.1 - 42.9		
Manganese-54	7.95	7.95	A		0.0	5.57 - 10.34	0.168	A
Nickel-63	NR	25.0				17.5 - 32.5		
Plutonium-238	0.00801	0.0019	A	(17)		Sensitivity Evaluation	0.00401	
Plutonium-239/240	0.00680	0.0037	A	(17)		Sensitivity Evaluation	0.00298	
Potassium-40	0.973		A			False Positive Test	0.352	

Radiological						Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Radium-226	NR	0.407				0.285 - 0.529	
Strontium-90	3.03	3.02	A		0.3	2.11 - 3.93	0.12 A
Technetium-99	NR					False Positive Test	
Uranium-234	0.4597	0.426	A		7.9	0.298 - 0.554	0.0247 A
Uranium-238	0.3900	0.404	A		-3.5	0.283 - 0.525	0.0222 A
Zinc-65	23.3	23.1	A		0.9	16.2 - 30.0	0.453 N

Radiological Reference Date: August 1, 2025

Results Flags:

A = Result acceptable.....|Bias| <= 20%

W = Result acceptable with warning.....20% < |Bias| <= 30%

N = Result not acceptable.....|Bias| > 30%

RW = Report Warning

NR = Not Reported

Uncertainty Flags:

N = NOT ACCEPTABLE.....RP < 2%

A = ACCEPTABLE.....2% <= RP <= 15%

W = ACCEPTABLE WITH WARNING.....15% <= RP <= 30%

N = NOT ACCEPTABLE.....RP > 30%

Relative Precision (RP) = (Reported Uncertainty / Reported Result) x 100

Notes:

(1) = False Positive

(2) = False Negative

(4) = Sensitivity Evaluation

(6) = Not Evaluated

(11) = False Positive Test, Result Not Reported

(17) = NOT DETECTED - reported a statistically zero result

(18) = Sensitivity Evaluation, Value Not Reported

(25) = Result not reported with other gamma results

(28) = Not Reporting Previously Reported Analyte

(29) = Statistically significant negative value at 3 standard deviations



Laboratory Results For MAPEP-25-MaW53
(ISUE01) ISU Environmental Monitoring Laboratory
785 5th 8th Ave Rm B107
Pocatello, Idaho 83209

Inorganic							Units: (mg/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Antimony	NR	0.00017				Sensitivity Evaluation		
Arsenic	NR	0.00181				0.00127 - 0.00235		
Barium	NR	0.0604				0.0423 - 0.0785		
Beryllium	NR	0.443				0.310 - 0.576		
Cadmium	NR	0.308				0.216 - 0.400		
Chromium	NR	0.328				0.230 - 0.426		
Cobalt	NR	0.300				0.210 - 0.390		
Copper	NR	0.428				0.300 - 0.556		
Lead	NR	0.155				0.109 - 0.202		
Mercury	NR	0.0718				0.0503 - 0.0933		
Nickel	NR	0.371				0.260 - 0.482		
Selenium	NR	0.394				0.276 - 0.512		
Technetium-99	NR					False Positive Test		
Thallium	NR	0.245				0.172 - 0.319		
Uranium-235	NR	2.35E-4				1.65E-4 - 3.06E-4		
Uranium-238	NR	0.0325				0.0228 - 0.0423		
Uranium-Total	NR	0.0327				0.0229 - 0.0425		
Vanadium	NR	0.400				0.280 - 0.520		
Zinc	NR	0.564				0.395 - 0.733		

Radiological							Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	NR	0.361				0.253 - 0.469		
Cerium-139	27.8	26.4	A		5.3	18.5 - 34.3	0.9	A
Cesium-134	7.4	7.34	A		0.8	5.14 - 9.54	0.2	A
Cesium-137	7.0	6.7	A		4.5	4.7 - 8.7	0.2	A
Cobalt-57	.01		A			False Positive Test	.06	
Cobalt-60	7.3	7.24	A		0.8	5.07 - 9.41	0.2	A
Hydrogen-3	282.5	276	A		2.4	193 - 359	4.5	N
Iron-55	NR	33.0				23.1 - 42.9		
Manganese-54	8.1	7.95	A		1.9	5.57 - 10.34	0.3	A
Nickel-63	NR	25.0				17.5 - 32.5		
Plutonium-238	NR	0.0019				Sensitivity Evaluation		
Plutonium-239/240	NR	0.0037				Sensitivity Evaluation		
Potassium-40	1.4		A			False Positive Test	0.7	

Radiological						Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Radium-226	NR	0.407				0.285 - 0.529	
Strontium-90	NR	3.02				2.11 - 3.93	
Technetium-99	NR					False Positive Test	
Uranium-234	NR	0.426				0.298 - 0.554	
Uranium-238	NR	0.404				0.283 - 0.525	
Zinc-65	0.2	23.1	N		-99.1	16.2 - 30.0	0.7 N

Radiological Reference Date: August 1, 2025

Results Flags:

A = Result acceptable.....|Bias| ≤ 20%

W = Result acceptable with warning.....20% < |Bias| ≤ 30%

N = Result not acceptable.....|Bias| > 30%

RW = Report Warning

NR = Not Reported

Uncertainty Flags:

N = NOT ACCEPTABLE.....RP < 2%

A = ACCEPTABLE.....2% ≤ RP ≤ 15%

W = ACCEPTABLE WITH WARNING.....15% ≤ RP ≤ 30%

N = NOT ACCEPTABLE.....RP > 30%

Relative Precision (RP) = (Reported Uncertainty / Reported Result) x 100

Notes:

- (1) = False Positive
- (2) = False Negative
- (4) = Sensitivity Evaluation
- (6) = Not Evaluated
- (11) = False Positive Test, Result Not Reported
- (17) = NOT DETECTED - reported a statistically zero result
- (18) = Sensitivity Evaluation, Value Not Reported
- (25) = Result not reported with other gamma results
- (28) = Not Reporting Previously Reported Analyte
- (29) = Statistically significant negative value at 3 standard deviations



Laboratory Results For MAPEP-25-MaW53

(JLNN01) Jefferson Laboratory
111 Hadron Drive
Newport News, VA 23606

Inorganic							Units: (mg/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Antimony	NR	0.00017				Sensitivity Evaluation		
Arsenic	NR	0.00181				0.00127 - 0.00235		
Barium	NR	0.0604				0.0423 - 0.0785		
Beryllium	NR	0.443				0.310 - 0.576		
Cadmium	NR	0.308				0.216 - 0.400		
Chromium	NR	0.328				0.230 - 0.426		
Cobalt	NR	0.300				0.210 - 0.390		
Copper	NR	0.428				0.300 - 0.556		
Lead	NR	0.155				0.109 - 0.202		
Mercury	NR	0.0718				0.0503 - 0.0933		
Nickel	NR	0.371				0.260 - 0.482		
Selenium	NR	0.394				0.276 - 0.512		
Technetium-99	NR					False Positive Test		
Thallium	NR	0.245				0.172 - 0.319		
Uranium-235	NR	2.35E-4				1.65E-4 - 3.06E-4		
Uranium-238	NR	0.0325				0.0228 - 0.0423		
Uranium-Total	NR	0.0327				0.0229 - 0.0425		
Vanadium	NR	0.400				0.280 - 0.520		
Zinc	NR	0.564				0.395 - 0.733		

Radiological							Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	.4195	0.361	A		16.2	0.253 - 0.469	.139	N
Cerium-139	NR	26.4				18.5 - 34.3		
Cesium-134	6.625	7.34	A		-9.7	5.14 - 9.54	.168	A
Cesium-137	6.585	6.7	A		-1.7	4.7 - 8.7	.172	A
Cobalt-57	.1395		A			False Positive Test	.883	
Cobalt-60	6.945	7.24	A		-4.1	5.07 - 9.41	.187	A
Hydrogen-3	280.984	276	A		1.8	193 - 359	19.59	A
Iron-55	NR	33.0				23.1 - 42.9		
Manganese-54	7.795	7.95	A		-2.0	5.57 - 10.34	.197	A
Nickel-63	NR	25.0				17.5 - 32.5		
Plutonium-238	NR	0.0019				Sensitivity Evaluation		
Plutonium-239/240	NR	0.0037				Sensitivity Evaluation		
Potassium-40	1.07		A			False Positive Test	1.07	

Radiological						Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Radium-226	NR	0.407				0.285 - 0.529	
Strontium-90	NR	3.02				2.11 - 3.93	
Technetium-99	NR					False Positive Test	
Uranium-234	NR	0.426				0.298 - 0.554	
Uranium-238	NR	0.404				0.283 - 0.525	
Zinc-65	22.95	23.1	A		-0.6	16.2 - 30.0	.529 A

Radiological Reference Date: August 1, 2025

Results Flags:

A = Result acceptable.....|Bias| ≤ 20%

W = Result acceptable with warning.....20% < |Bias| ≤ 30%

N = Result not acceptable.....|Bias| > 30%

RW = Report Warning

NR = Not Reported

Uncertainty Flags:

N = NOT ACCEPTABLE.....RP < 2%

A = ACCEPTABLE.....2% ≤ RP ≤ 15%

W = ACCEPTABLE WITH WARNING.....15% ≤ RP ≤ 30%

N = NOT ACCEPTABLE.....RP > 30%

Relative Precision (RP) = (Reported Uncertainty / Reported Result) x 100

Notes:

(1) = False Positive

(2) = False Negative

(4) = Sensitivity Evaluation

(6) = Not Evaluated

(11) = False Positive Test, Result Not Reported

(17) = NOT DETECTED - reported a statistically zero result

(18) = Sensitivity Evaluation, Value Not Reported

(25) = Result not reported with other gamma results

(28) = Not Reporting Previously Reported Analyte

(29) = Statistically significant negative value at 3 standard deviations



Laboratory Results For MAPEP-25-MaW53

(LOCK03) Advanced Test Reactor (ATR) Complex Radioanalytical Laboratory

INL/Battelle Energy Alliance, LLC

Idaho Falls, ID 83415-7111

Inorganic							Units: (mg/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Antimony	0.0002	0.00017	A	(17)		Sensitivity Evaluation	0.0001	
Arsenic	0.0016	0.00181	A		-11.6	0.00127 - 0.00235	0.0004	W
Barium	0.057	0.0604	A		-5.6	0.0423 - 0.0785	0.008	A
Beryllium	0.415	0.443	A		-6.3	0.310 - 0.576	0.048	A
Cadmium	0.285	0.308	A		-7.5	0.216 - 0.400	0.026	A
Chromium	0.309	0.328	A		-5.8	0.230 - 0.426	0.015	A
Cobalt	0.293	0.300	A		-2.3	0.210 - 0.390	0.032	A
Copper	0.406	0.428	A		-5.1	0.300 - 0.556	0.045	A
Lead	0.148	0.155	A		-4.5	0.109 - 0.202	0.022	A
Mercury	0.063	0.0718	A		-12.3	0.0503 - 0.0933	0.019	N
Nickel	0.362	0.371	A		-2.4	0.260 - 0.482	0.041	A
Selenium	0.354	0.394	A		-10.2	0.276 - 0.512	0.045	A
Technetium-99	NR					False Positive Test		
Thallium	0.242	0.245	A		-1.2	0.172 - 0.319	0.030	A
Uranium-235	0.000252	2.35E-4	A		7.2	1.65E-4 - 3.06E-4	0.000051	W
Uranium-238	0.0349	0.0325	A		7.4	0.0228 - 0.0423	0.0071	W
Uranium-Total	0.035	0.0327	A		7.0	0.0229 - 0.0425	0.007	W
Vanadium	0.392	0.400	A		-2.0	0.280 - 0.520	0.027	A
Zinc	0.543	0.564	A		-3.7	0.395 - 0.733	0.097	W

Radiological							Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	NR	0.361				0.253 - 0.469		
Cerium-139	NR	26.4				18.5 - 34.3		
Cesium-134	6.37	7.34	A		-13.2	5.14 - 9.54	0.38	A
Cesium-137	6.86	6.7	A		2.4	4.7 - 8.7	0.72	A
Cobalt-57	-0.08		A			False Positive Test	0.47	
Cobalt-60	7.99	7.24	A		10.4	5.07 - 9.41	0.45	A
Hydrogen-3	267	276	A		-3.3	193 - 359	46	W
Iron-55	NR	33.0				23.1 - 42.9		
Manganese-54	7.39	7.95	A		-7.0	5.57 - 10.34	0.71	A
Nickel-63	NR	25.0				17.5 - 32.5		
Plutonium-238	NR	0.0019				Sensitivity Evaluation		
Plutonium-239/240	NR	0.0037				Sensitivity Evaluation		
Potassium-40	2.01		A			False Positive Test	13.29	

Radiological						Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Radium-226	NR	0.407				0.285 - 0.529	
Strontium-90	NR	3.02				2.11 - 3.93	
Technetium-99	NR					False Positive Test	
Uranium-234	NR	0.426				0.298 - 0.554	
Uranium-238	NR	0.404				0.283 - 0.525	
Zinc-65	21.75	23.1	A		-5.8	16.2 - 30.0	1.35 A

Radiological Reference Date: August 1, 2025

Results Flags:

A = Result acceptable.....|Bias| <= 20%

W = Result acceptable with warning.....20% < |Bias| <= 30%

N = Result not acceptable.....|Bias| > 30%

RW = Report Warning

NR = Not Reported

Uncertainty Flags:

N = NOT ACCEPTABLE.....RP < 2%

A = ACCEPTABLE.....2% <= RP <= 15%

W = ACCEPTABLE WITH WARNING.....15% <= RP <= 30%

N = NOT ACCEPTABLE.....RP > 30%

Relative Precision (RP) = (Reported Uncertainty / Reported Result) x 100

Notes:

(1) = False Positive

(2) = False Negative

(4) = Sensitivity Evaluation

(6) = Not Evaluated

(11) = False Positive Test, Result Not Reported

(17) = NOT DETECTED - reported a statistically zero result

(18) = Sensitivity Evaluation, Value Not Reported

(25) = Result not reported with other gamma results

(28) = Not Reporting Previously Reported Analyte

(29) = Statistically significant negative value at 3 standard deviations



Laboratory Results For MAPEP-25-MaW53

(LZCA01) ACZ Laboratories, Inc
 2773 Downhill Drive
 Steamboat Springs, CO 80487

Inorganic							Units: (mg/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Antimony	NR	0.00017				Sensitivity Evaluation		
Arsenic	NR	0.00181				0.00127 - 0.00235		
Barium	NR	0.0604				0.0423 - 0.0785		
Beryllium	NR	0.443				0.310 - 0.576		
Cadmium	NR	0.308				0.216 - 0.400		
Chromium	NR	0.328				0.230 - 0.426		
Cobalt	NR	0.300				0.210 - 0.390		
Copper	NR	0.428				0.300 - 0.556		
Lead	NR	0.155				0.109 - 0.202		
Mercury	NR	0.0718				0.0503 - 0.0933		
Nickel	NR	0.371				0.260 - 0.482		
Selenium	NR	0.394				0.276 - 0.512		
Technetium-99	NR					False Positive Test		
Thallium	NR	0.245				0.172 - 0.319		
Uranium-235	NR	2.35E-4				1.65E-4 - 3.06E-4		
Uranium-238	NR	0.0325				0.0228 - 0.0423		
Uranium-Total	NR	0.0327				0.0229 - 0.0425		
Vanadium	NR	0.400				0.280 - 0.520		
Zinc	NR	0.564				0.395 - 0.733		

Radiological							Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	NR	0.361				0.253 - 0.469		
Cerium-139	NR	26.4				18.5 - 34.3		
Cesium-134	NR	7.34				5.14 - 9.54		
Cesium-137	NR	6.7				4.7 - 8.7		
Cobalt-57	NR					False Positive Test		
Cobalt-60	NR	7.24				5.07 - 9.41		
Hydrogen-3	NR	276				193 - 359		
Iron-55	NR	33.0				23.1 - 42.9		
Manganese-54	NR	7.95				5.57 - 10.34		
Nickel-63	NR	25.0				17.5 - 32.5		
Plutonium-238	NR	0.0019				Sensitivity Evaluation		
Plutonium-239/240	NR	0.0037				Sensitivity Evaluation		
Potassium-40	NR					False Positive Test		

Radiological						Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Radium-226	0.382	0.407	A		-6.1	0.285 - 0.529	0.039 A
Strontium-90	NR	3.02				2.11 - 3.93	
Technetium-99	NR					False Positive Test	
Uranium-234	NR	0.426				0.298 - 0.554	
Uranium-238	NR	0.404				0.283 - 0.525	
Zinc-65	NR	23.1				16.2 - 30.0	

Radiological Reference Date: August 1, 2025

Results Flags:

A = Result acceptable.....|Bias| ≤ 20%

W = Result acceptable with warning.....20% < |Bias| ≤ 30%

N = Result not acceptable.....|Bias| > 30%

RW = Report Warning

NR = Not Reported

Uncertainty Flags:

N = NOT ACCEPTABLE.....RP < 2%

A = ACCEPTABLE.....2% ≤ RP ≤ 15%

W = ACCEPTABLE WITH WARNING.....15% ≤ RP ≤ 30%

N = NOT ACCEPTABLE.....RP > 30%

Relative Precision (RP) = (Reported Uncertainty / Reported Result) x 100

Notes:

(1) = False Positive

(2) = False Negative

(4) = Sensitivity Evaluation

(6) = Not Evaluated

(11) = False Positive Test, Result Not Reported

(17) = NOT DETECTED - reported a statistically zero result

(18) = Sensitivity Evaluation, Value Not Reported

(25) = Result not reported with other gamma results

(28) = Not Reporting Previously Reported Analyte

(29) = Statistically significant negative value at 3 standard deviations



Laboratory Results For MAPEP-25-MaW53
 (MART01) Southern Ohio Cleanup Company LLC
 COC, Bldg. X-705, Rm 106
 Piketon, OH 45661

Inorganic							Units: (mg/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Antimony	NR	0.00017				Sensitivity Evaluation		
Arsenic	NR	0.00181				0.00127 - 0.00235		
Barium	NR	0.0604				0.0423 - 0.0785		
Beryllium	NR	0.443				0.310 - 0.576		
Cadmium	NR	0.308				0.216 - 0.400		
Chromium	NR	0.328				0.230 - 0.426		
Cobalt	NR	0.300				0.210 - 0.390		
Copper	NR	0.428				0.300 - 0.556		
Lead	NR	0.155				0.109 - 0.202		
Mercury	NR	0.0718				0.0503 - 0.0933		
Nickel	NR	0.371				0.260 - 0.482		
Selenium	NR	0.394				0.276 - 0.512		
Technetium-99	NR					False Positive Test		
Thallium	NR	0.245				0.172 - 0.319		
Uranium-235	0.00025	2.35E-4	A		6.4	1.65E-4 - 3.06E-4	0.000025	A
Uranium-238	0.0347	0.0325	A		6.8	0.0228 - 0.0423	0.00358	A
Uranium-Total	0.0349	0.0327	A		6.7	0.0229 - 0.0425	0.00361	A
Vanadium	NR	0.400				0.280 - 0.520		
Zinc	NR	0.564				0.395 - 0.733		

Radiological							Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	0.389	0.361	A		7.8	0.253 - 0.469	0.002132	N
Cerium-139	NR	26.4				18.5 - 34.3		
Cesium-134	NR	7.34				5.14 - 9.54		
Cesium-137	NR	6.7				4.7 - 8.7		
Cobalt-57	NR					False Positive Test		
Cobalt-60	NR	7.24				5.07 - 9.41		
Hydrogen-3	NR	276				193 - 359		
Iron-55	NR	33.0				23.1 - 42.9		
Manganese-54	NR	7.95				5.57 - 10.34		
Nickel-63	NR	25.0				17.5 - 32.5		
Plutonium-238	0.003799	0.0019	A	(17)		Sensitivity Evaluation	0.002196	
Plutonium-239/240	0.003554	0.0037	A	(17)		Sensitivity Evaluation	0.002829	
Potassium-40	NR					False Positive Test		

Radiological						Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Radium-226	NR	0.407				0.285 - 0.529	
Strontium-90	NR	3.02				2.11 - 3.93	
Technetium-99	-0.170		A			False Positive Test	0.221
Uranium-234	0.3976	0.426	A		-6.7	0.298 - 0.554	0.002582 N
Uranium-238	0.4095	0.404	A		1.4	0.283 - 0.525	0.002603 N
Zinc-65	NR	23.1				16.2 - 30.0	

Radiological Reference Date: August 1, 2025

Results Flags:

A = Result acceptable.....|Bias| ≤ 20%

W = Result acceptable with warning.....20% < |Bias| ≤ 30%

N = Result not acceptable.....|Bias| > 30%

RW = Report Warning

NR = Not Reported

Uncertainty Flags:

N = NOT ACCEPTABLE.....RP < 2%

A = ACCEPTABLE.....2% ≤ RP ≤ 15%

W = ACCEPTABLE WITH WARNING.....15% ≤ RP ≤ 30%

N = NOT ACCEPTABLE.....RP > 30%

Relative Precision (RP) = (Reported Uncertainty / Reported Result) x 100

Notes:

(1) = False Positive

(2) = False Negative

(4) = Sensitivity Evaluation

(6) = Not Evaluated

(11) = False Positive Test, Result Not Reported

(17) = NOT DETECTED - reported a statistically zero result

(18) = Sensitivity Evaluation, Value Not Reported

(25) = Result not reported with other gamma results

(28) = Not Reporting Previously Reported Analyte

(29) = Statistically significant negative value at 3 standard deviations



Laboratory Results For MAPEP-25-MaW53
(MART03) Radioactive Material Analysis Laboratory
ORNL
Oak Ridge, TN 37830

Inorganic							Units: (mg/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Antimony	0.00024	0.00017	A	(17)		Sensitivity Evaluation	0.00024	
Arsenic	0.00164	0.00181	A		-9.4	0.00127 - 0.00235	0.00016	A
Barium	0.0591	0.0604	A		-2.2	0.0423 - 0.0785	0.0059	A
Beryllium	0.418	0.443	A		-5.6	0.310 - 0.576	0.042	A
Cadmium	0.285	0.308	A		-7.5	0.216 - 0.400	0.029	A
Chromium	0.313	0.328	A		-4.6	0.230 - 0.426	0.031	A
Cobalt	0.293	0.300	A		-2.3	0.210 - 0.390	0.029	A
Copper	0.405	0.428	A		-5.4	0.300 - 0.556	0.041	A
Lead	0.157	0.155	A		1.3	0.109 - 0.202	0.016	A
Mercury	0.0690	0.0718	A		-3.9	0.0503 - 0.0933	0.0069	A
Nickel	0.353	0.371	A		-4.9	0.260 - 0.482	0.035	A
Selenium	0.352	0.394	A		-10.7	0.276 - 0.512	0.070	W
Technetium-99	NR					False Positive Test		
Thallium	0.235	0.245	A		-4.1	0.172 - 0.319	0.024	A
Uranium-235	0.000238	2.35E-4	A		1.3	1.65E-4 - 3.06E-4	0.000024	A
Uranium-238	0.0329	0.0325	A		1.2	0.0228 - 0.0423	0.0033	A
Uranium-Total	0.0331	0.0327	A		1.2	0.0229 - 0.0425	0.0033	A
Vanadium	0.386	0.400	A		-3.5	0.280 - 0.520	0.039	A
Zinc	0.534	0.564	A		-5.3	0.395 - 0.733	0.053	A

Radiological							Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	0.306	0.361	A		-15.2	0.253 - 0.469	0.028	A
Cerium-139	26.88	26.4	A		1.8	18.5 - 34.3	0.99	A
Cesium-134	7.50	7.34	A		2.2	5.14 - 9.54	0.13	N
Cesium-137	6.71	6.7	A		0.1	4.7 - 8.7	0.19	A
Cobalt-57	0.23		A			False Positive Test	0.23	
Cobalt-60	7.30	7.24	A		0.8	5.07 - 9.41	0.16	A
Hydrogen-3	318	276	A		15.2	193 - 359	17	A
Iron-55	NR	33.0				23.1 - 42.9		
Manganese-54	7.91	7.95	A		-0.5	5.57 - 10.34	0.22	A
Nickel-63	NR	25.0				17.5 - 32.5		
Plutonium-238	0.0093	0.0019	A	(17)		Sensitivity Evaluation	0.0050	
Plutonium-239/240	0.0082	0.0037	A	(17)		Sensitivity Evaluation	0.0034	
Potassium-40	3.0		A			False Positive Test	3.0	

Radiological						Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Radium-226	NR	0.407				0.285 - 0.529	
Strontium-90	3.10	3.02	A		2.6	2.11 - 3.93	0.20 A
Technetium-99	-0.40		A			False Positive Test	0.19
Uranium-234	0.432	0.426	A		1.4	0.298 - 0.554	0.027 A
Uranium-238	0.381	0.404	A		-5.7	0.283 - 0.525	0.025 A
Zinc-65	24.10	23.1	A		4.3	16.2 - 30.0	0.62 A

Radiological Reference Date: August 1, 2025

Results Flags:

A = Result acceptable.....|Bias| <= 20%

W = Result acceptable with warning.....20% < |Bias| <= 30%

N = Result not acceptable.....|Bias| > 30%

RW = Report Warning

NR = Not Reported

Uncertainty Flags:

N = NOT ACCEPTABLE.....RP < 2%

A = ACCEPTABLE.....2% <= RP <= 15%

W = ACCEPTABLE WITH WARNING.....15% <= RP <= 30%

N = NOT ACCEPTABLE.....RP > 30%

Relative Precision (RP) = (Reported Uncertainty / Reported Result) x 100

Notes:

(1) = False Positive

(2) = False Negative

(4) = Sensitivity Evaluation

(6) = Not Evaluated

(11) = False Positive Test, Result Not Reported

(17) = NOT DETECTED - reported a statistically zero result

(18) = Sensitivity Evaluation, Value Not Reported

(25) = Result not reported with other gamma results

(28) = Not Reporting Previously Reported Analyte

(29) = Statistically significant negative value at 3 standard deviations



Laboratory Results For MAPEP-25-MaW53

(MNDH01) Minnesota Department of Health, Public Health Lab. Division
601 Robert St. N.
St. Paul, MN 55155

Inorganic							Units: (mg/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Antimony	NR	0.00017				Sensitivity Evaluation		
Arsenic	NR	0.00181				0.00127 - 0.00235		
Barium	NR	0.0604				0.0423 - 0.0785		
Beryllium	NR	0.443				0.310 - 0.576		
Cadmium	NR	0.308				0.216 - 0.400		
Chromium	NR	0.328				0.230 - 0.426		
Cobalt	NR	0.300				0.210 - 0.390		
Copper	NR	0.428				0.300 - 0.556		
Lead	NR	0.155				0.109 - 0.202		
Mercury	NR	0.0718				0.0503 - 0.0933		
Nickel	NR	0.371				0.260 - 0.482		
Selenium	NR	0.394				0.276 - 0.512		
Technetium-99	NR					False Positive Test		
Thallium	NR	0.245				0.172 - 0.319		
Uranium-235	NR	2.35E-4				1.65E-4 - 3.06E-4		
Uranium-238	NR	0.0325				0.0228 - 0.0423		
Uranium-Total	NR	0.0327				0.0229 - 0.0425		
Vanadium	NR	0.400				0.280 - 0.520		
Zinc	NR	0.564				0.395 - 0.733		

Radiological							Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	NR	0.361				0.253 - 0.469		
Cerium-139	27.807	26.4	A		5.3	18.5 - 34.3	0.171	N
Cesium-134	6.6484	7.34	A		-9.4	5.14 - 9.54	0.1128	N
Cesium-137	7.0816	6.7	A		5.7	4.7 - 8.7	0.1264	N
Cobalt-57	NR		N	(11)		False Positive Test		
Cobalt-60	7.7283	7.24	A		6.7	5.07 - 9.41	0.1041	N
Hydrogen-3	183.5052	276	N		-33.5	193 - 359	7.59055	A
Iron-55	NR	33.0				23.1 - 42.9		
Manganese-54	8.6286	7.95	A		8.5	5.57 - 10.34	0.1487	N
Nickel-63	81.7978	25.0	N		227.2	17.5 - 32.5	0.400155	N
Plutonium-238	NR	0.0019				Sensitivity Evaluation		
Plutonium-239/240	NR	0.0037				Sensitivity Evaluation		
Potassium-40	1.3928		A			False Positive Test	0.9700	

Radiological						Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Radium-226	NR	0.407				0.285 - 0.529	
Strontium-90	NR	3.02				2.11 - 3.93	
Technetium-99	NR					False Positive Test	
Uranium-234	NR	0.426				0.298 - 0.554	
Uranium-238	NR	0.404				0.283 - 0.525	
Zinc-65	26.094	23.1	A		13.0	16.2 - 30.0	0.3928 N

Radiological Reference Date: August 1, 2025

Results Flags:

A = Result acceptable.....|Bias| ≤ 20%

W = Result acceptable with warning.....20% < |Bias| ≤ 30%

N = Result not acceptable.....|Bias| > 30%

RW = Report Warning

NR = Not Reported

Uncertainty Flags:

N = NOT ACCEPTABLE.....RP < 2%

A = ACCEPTABLE.....2% ≤ RP ≤ 15%

W = ACCEPTABLE WITH WARNING.....15% ≤ RP ≤ 30%

N = NOT ACCEPTABLE.....RP > 30%

Relative Precision (RP) = (Reported Uncertainty / Reported Result) x 100

Notes:

- (1) = False Positive
- (2) = False Negative
- (4) = Sensitivity Evaluation
- (6) = Not Evaluated
- (11) = False Positive Test, Result Not Reported
- (17) = NOT DETECTED - reported a statistically zero result
- (18) = Sensitivity Evaluation, Value Not Reported
- (25) = Result not reported with other gamma results
- (28) = Not Reporting Previously Reported Analyte
- (29) = Statistically significant negative value at 3 standard deviations



Laboratory Results For MAPEP-25-MaW53

(NARL01) National Analytical Radiation Environmental Laboratory

540 S. Morris Ave.

Montgomery, AL 36115-2601

Inorganic							Units: (mg/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Antimony	NR	0.00017				Sensitivity Evaluation		
Arsenic	NR	0.00181				0.00127 - 0.00235		
Barium	NR	0.0604				0.0423 - 0.0785		
Beryllium	NR	0.443				0.310 - 0.576		
Cadmium	NR	0.308				0.216 - 0.400		
Chromium	NR	0.328				0.230 - 0.426		
Cobalt	NR	0.300				0.210 - 0.390		
Copper	NR	0.428				0.300 - 0.556		
Lead	NR	0.155				0.109 - 0.202		
Mercury	NR	0.0718				0.0503 - 0.0933		
Nickel	NR	0.371				0.260 - 0.482		
Selenium	NR	0.394				0.276 - 0.512		
Technetium-99	NR					False Positive Test		
Thallium	NR	0.245				0.172 - 0.319		
Uranium-235	NR	2.35E-4				1.65E-4 - 3.06E-4		
Uranium-238	NR	0.0325				0.0228 - 0.0423		
Uranium-Total	NR	0.0327				0.0229 - 0.0425		
Vanadium	NR	0.400				0.280 - 0.520		
Zinc	NR	0.564				0.395 - 0.733		

Radiological							Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	.354	0.361	A		-1.9	0.253 - 0.469	.0248	A
Cerium-139	26.9	26.4	A		1.9	18.5 - 34.3	1.5	A
Cesium-134	7.07	7.34	A		-3.7	5.14 - 9.54	0.394	A
Cesium-137	7.14	6.7	A		6.6	4.7 - 8.7	.409	A
Cobalt-57	.0905		A			False Positive Test	0.101	
Cobalt-60	7.22	7.24	A		-0.3	5.07 - 9.41	.399	A
Hydrogen-3	277	276	A		0.4	193 - 359	7.53	A
Iron-55	NR	33.0				23.1 - 42.9		
Manganese-54	8.39	7.95	A		5.5	5.57 - 10.34	.481	A
Nickel-63	NR	25.0				17.5 - 32.5		
Plutonium-238	-.0011	0.0019	A	(17)		Sensitivity Evaluation	.00133	
Plutonium-239/240	.00442	0.0037	A	(17)		Sensitivity Evaluation	.00281	
Potassium-40	-1.11		A			False Positive Test	.750	

Radiological						Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Radium-226	.411	0.407	A		1.0	0.285 - 0.529	.0254 A
Strontium-90	3.04	3.02	A		0.7	2.11 - 3.93	.0855 A
Technetium-99	NR					False Positive Test	
Uranium-234	.462	0.426	A		8.5	0.298 - 0.554	.0307 A
Uranium-238	.409	0.404	A		1.2	0.283 - 0.525	.0281 A
Zinc-65	24.7	23.1	A		6.9	16.2 - 30.0	1.39 A

Radiological Reference Date: August 1, 2025

Results Flags:

A = Result acceptable.....|Bias| <= 20%

W = Result acceptable with warning.....20% < |Bias| <= 30%

N = Result not acceptable.....|Bias| > 30%

RW = Report Warning

NR = Not Reported

Uncertainty Flags:

N = NOT ACCEPTABLE.....RP < 2%

A = ACCEPTABLE.....2% <= RP <= 15%

W = ACCEPTABLE WITH WARNING.....15% <= RP <= 30%

N = NOT ACCEPTABLE.....RP > 30%

Relative Precision (RP) = (Reported Uncertainty / Reported Result) x 100

Notes:

(1) = False Positive

(2) = False Negative

(4) = Sensitivity Evaluation

(6) = Not Evaluated

(11) = False Positive Test, Result Not Reported

(17) = NOT DETECTED - reported a statistically zero result

(18) = Sensitivity Evaluation, Value Not Reported

(25) = Result not reported with other gamma results

(28) = Not Reporting Previously Reported Analyte

(29) = Statistically significant negative value at 3 standard deviations



Laboratory Results For MAPEP-25-MaW53
(NESI01) BWXT-Radioisotope & Analytical Chemistry Laboratory
Lynchburg Technology Center
Lynchburg, VA 24504-5447

Inorganic							Units: (mg/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Antimony	0.000467	0.00017	N	(4)		Sensitivity Evaluation	0.00003	
Arsenic	0.0017	0.00181	A		-6.1	0.00127 - 0.00235	0.0001	A
Barium	0.072	0.0604	A		19.2	0.0423 - 0.0785	0.0004	N
Beryllium	0.380	0.443	A		-14.2	0.310 - 0.576	0.002	N
Cadmium	0.285	0.308	A		-7.5	0.216 - 0.400	0.002	N
Chromium	0.347	0.328	A		5.8	0.230 - 0.426	0.002	N
Cobalt	0.305	0.300	A		1.7	0.210 - 0.390	0.002	N
Copper	0.432	0.428	A		0.9	0.300 - 0.556	0.002	N
Lead	0.157	0.155	A		1.3	0.109 - 0.202	0.001	N
Mercury	0.0751	0.0718	A		4.6	0.0503 - 0.0933	0.005	A
Nickel	0.378	0.371	A		1.9	0.260 - 0.482	0.002	N
Selenium	0.320	0.394	A		-18.8	0.276 - 0.512	0.014	A
Technetium-99	NR					False Positive Test		
Thallium	0.225	0.245	A		-8.2	0.172 - 0.319	0.001	N
Uranium-235	NR	2.35E-4				1.65E-4 - 3.06E-4		
Uranium-238	NR	0.0325				0.0228 - 0.0423		
Uranium-Total	NR	0.0327				0.0229 - 0.0425		
Vanadium	0.430	0.400	A		7.5	0.280 - 0.520	0.002	N
Zinc	0.558	0.564	A		-1.1	0.395 - 0.733	0.003	N

Radiological							Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	0.384	0.361	A		6.4	0.253 - 0.469	0.030	A
Cerium-139	29.0	26.4	A		9.8	18.5 - 34.3	1.20	A
Cesium-134	6.27	7.34	A		-14.6	5.14 - 9.54	0.333	A
Cesium-137	6.74	6.7	A		0.6	4.7 - 8.7	0.307	A
Cobalt-57	-0.028		A			False Positive Test	0.166	
Cobalt-60	7.41	7.24	A		2.3	5.07 - 9.41	0.292	A
Hydrogen-3	270	276	A		-2.2	193 - 359	13.8	A
Iron-55	26.3	33.0	W		-20.3	23.1 - 42.9	1.98	A
Manganese-54	8.15	7.95	A		2.5	5.57 - 10.34	0.409	A
Nickel-63	23.6	25.0	A		-5.6	17.5 - 32.5	1.90	A
Plutonium-238	0.003	0.0019	A	(17)		Sensitivity Evaluation	0.004	
Plutonium-239/240	0.007	0.0037	A	(17)		Sensitivity Evaluation	0.003	
Potassium-40	8.71		N	(1)		False Positive Test	2.02	

Radiological						Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Radium-226	NR	0.407				0.285 - 0.529	
Strontium-90	3.07	3.02	A		1.7	2.11 - 3.93	0.225 A
Technetium-99	-0.003		A			False Positive Test	0.075
Uranium-234	0.423	0.426	A		-0.7	0.298 - 0.554	0.021 A
Uranium-238	0.417	0.404	A		3.2	0.283 - 0.525	0.021 A
Zinc-65	24.0	23.1	A		3.9	16.2 - 30.0	1.02 A

Radiological Reference Date: August 1, 2025

Results Flags:

A = Result acceptable.....|Bias| ≤ 20%

W = Result acceptable with warning.....20% < |Bias| ≤ 30%

N = Result not acceptable.....|Bias| > 30%

RW = Report Warning

NR = Not Reported

Uncertainty Flags:

N = NOT ACCEPTABLE.....RP < 2%

A = ACCEPTABLE.....2% ≤ RP ≤ 15%

W = ACCEPTABLE WITH WARNING.....15% ≤ RP ≤ 30%

N = NOT ACCEPTABLE.....RP > 30%

Relative Precision (RP) = (Reported Uncertainty / Reported Result) x 100

Notes:

- (1) = False Positive
- (2) = False Negative
- (4) = Sensitivity Evaluation
- (6) = Not Evaluated
- (11) = False Positive Test, Result Not Reported
- (17) = NOT DETECTED - reported a statistically zero result
- (18) = Sensitivity Evaluation, Value Not Reported
- (25) = Result not reported with other gamma results
- (28) = Not Reporting Previously Reported Analyte
- (29) = Statistically significant negative value at 3 standard deviations



Laboratory Results For MAPEP-25-MaW53
(NJDH01) New Jersey Dept. of Health, ECLS
3 Schwarzkopf Drive
Ewing, NJ 08628

Inorganic							Units: (mg/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Antimony	NR	0.00017				Sensitivity Evaluation		
Arsenic	NR	0.00181				0.00127 - 0.00235		
Barium	NR	0.0604				0.0423 - 0.0785		
Beryllium	NR	0.443				0.310 - 0.576		
Cadmium	NR	0.308				0.216 - 0.400		
Chromium	NR	0.328				0.230 - 0.426		
Cobalt	NR	0.300				0.210 - 0.390		
Copper	NR	0.428				0.300 - 0.556		
Lead	NR	0.155				0.109 - 0.202		
Mercury	NR	0.0718				0.0503 - 0.0933		
Nickel	NR	0.371				0.260 - 0.482		
Selenium	NR	0.394				0.276 - 0.512		
Technetium-99	NR					False Positive Test		
Thallium	NR	0.245				0.172 - 0.319		
Uranium-235	NR	2.35E-4				1.65E-4 - 3.06E-4		
Uranium-238	NR	0.0325				0.0228 - 0.0423		
Uranium-Total	NR	0.0327				0.0229 - 0.0425		
Vanadium	NR	0.400				0.280 - 0.520		
Zinc	NR	0.564				0.395 - 0.733		

Radiological							Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	NR	0.361				0.253 - 0.469		
Cerium-139	25.3	26.4	A		-4.2	18.5 - 34.3	0.87	A
Cesium-134	5.59	7.34	W		-23.8	5.14 - 9.54	0.56	A
Cesium-137	5.44	6.7	A		-18.8	4.7 - 8.7	0.53	A
Cobalt-57	0.053		A			False Positive Test	0.23	
Cobalt-60	6.49	7.24	A		-10.4	5.07 - 9.41	0.56	A
Hydrogen-3	256	276	A		-7.2	193 - 359	19	A
Iron-55	NR	33.0				23.1 - 42.9		
Manganese-54	8.06	7.95	A		1.4	5.57 - 10.34	0.64	A
Nickel-63	NR	25.0				17.5 - 32.5		
Plutonium-238	NR	0.0019				Sensitivity Evaluation		
Plutonium-239/240	NR	0.0037				Sensitivity Evaluation		
Potassium-40	1.77		A			False Positive Test	5.2	

Radiological						Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Radium-226	0.42	0.407	A		3.2	0.285 - 0.529	0.15 N
Strontium-90	3.24	3.02	A		7.3	2.11 - 3.93	0.29 A
Technetium-99	NR					False Positive Test	
Uranium-234	NR	0.426				0.298 - 0.554	
Uranium-238	NR	0.404				0.283 - 0.525	
Zinc-65	25.1	23.1	A		8.7	16.2 - 30.0	1.6 A

Radiological Reference Date: August 1, 2025

Results Flags:

A = Result acceptable.....|Bias| <= 20%

W = Result acceptable with warning.....20% < |Bias| <= 30%

N = Result not acceptable.....|Bias| > 30%

RW = Report Warning

NR = Not Reported

Uncertainty Flags:

N = NOT ACCEPTABLE.....RP < 2%

A = ACCEPTABLE.....2% <= RP <= 15%

W = ACCEPTABLE WITH WARNING.....15% <= RP <= 30%

N = NOT ACCEPTABLE.....RP > 30%

Relative Precision (RP) = (Reported Uncertainty / Reported Result) x 100

Notes:

(1) = False Positive

(2) = False Negative

(4) = Sensitivity Evaluation

(6) = Not Evaluated

(11) = False Positive Test, Result Not Reported

(17) = NOT DETECTED - reported a statistically zero result

(18) = Sensitivity Evaluation, Value Not Reported

(25) = Result not reported with other gamma results

(28) = Not Reporting Previously Reported Analyte

(29) = Statistically significant negative value at 3 standard deviations



Laboratory Results For MAPEP-25-MaW53
(ODHL01) Ohio Department of Health Laboratory
8995 E Main Street
Reynoldsburg, OH 43068

Inorganic							Units: (mg/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Antimony	NR	0.00017				Sensitivity Evaluation		
Arsenic	NR	0.00181				0.00127 - 0.00235		
Barium	NR	0.0604				0.0423 - 0.0785		
Beryllium	NR	0.443				0.310 - 0.576		
Cadmium	NR	0.308				0.216 - 0.400		
Chromium	NR	0.328				0.230 - 0.426		
Cobalt	NR	0.300				0.210 - 0.390		
Copper	NR	0.428				0.300 - 0.556		
Lead	NR	0.155				0.109 - 0.202		
Mercury	NR	0.0718				0.0503 - 0.0933		
Nickel	NR	0.371				0.260 - 0.482		
Selenium	NR	0.394				0.276 - 0.512		
Technetium-99	NR					False Positive Test		
Thallium	NR	0.245				0.172 - 0.319		
Uranium-235	NR	2.35E-4				1.65E-4 - 3.06E-4		
Uranium-238	NR	0.0325				0.0228 - 0.0423		
Uranium-Total	NR	0.0327				0.0229 - 0.0425		
Vanadium	NR	0.400				0.280 - 0.520		
Zinc	NR	0.564				0.395 - 0.733		

Radiological							Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	NR	0.361				0.253 - 0.469		
Cerium-139	NR	26.4				18.5 - 34.3		
Cesium-134	7.23	7.34	A		-1.5	5.14 - 9.54	0.258	A
Cesium-137	6.67	6.7	A		-0.4	4.7 - 8.7	0.429	A
Cobalt-57	0.0723		A			False Positive Test	0.0784	
Cobalt-60	7.21	7.24	A		-0.4	5.07 - 9.41	0.231	A
Hydrogen-3	245.18	276	A		-11.2	193 - 359	6.94	A
Iron-55	NR	33.0				23.1 - 42.9		
Manganese-54	7.74	7.95	A		-2.6	5.57 - 10.34	0.496	A
Nickel-63	NR	25.0				17.5 - 32.5		
Plutonium-238	NR	0.0019				Sensitivity Evaluation		
Plutonium-239/240	NR	0.0037				Sensitivity Evaluation		
Potassium-40	0.318		A			False Positive Test	0.635	

Radiological						Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Radium-226	NR	0.407				0.285 - 0.529	
Strontium-90	NR	3.02				2.11 - 3.93	
Technetium-99	NR					False Positive Test	
Uranium-234	NR	0.426				0.298 - 0.554	
Uranium-238	NR	0.404				0.283 - 0.525	
Zinc-65	22.6	23.1	A		-2.2	16.2 - 30.0	1.06 A

Radiological Reference Date: August 1, 2025

Results Flags:

A = Result acceptable.....|Bias| ≤ 20%

W = Result acceptable with warning.....20% < |Bias| ≤ 30%

N = Result not acceptable.....|Bias| > 30%

RW = Report Warning

NR = Not Reported

Uncertainty Flags:

N = NOT ACCEPTABLE.....RP < 2%

A = ACCEPTABLE.....2% ≤ RP ≤ 15%

W = ACCEPTABLE WITH WARNING.....15% ≤ RP ≤ 30%

N = NOT ACCEPTABLE.....RP > 30%

Relative Precision (RP) = (Reported Uncertainty / Reported Result) x 100

Notes:

(1) = False Positive

(2) = False Negative

(4) = Sensitivity Evaluation

(6) = Not Evaluated

(11) = False Positive Test, Result Not Reported

(17) = NOT DETECTED - reported a statistically zero result

(18) = Sensitivity Evaluation, Value Not Reported

(25) = Result not reported with other gamma results

(28) = Not Reporting Previously Reported Analyte

(29) = Statistically significant negative value at 3 standard deviations



Laboratory Results For MAPEP-25-MaW53

(OTLI01) Pace Analytical National Center for Testing & Innovation

12065 Lebanon Road

Mt. Juliet, TN 37122

Inorganic							Units: (mg/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Antimony	.005	0.00017	A	(17)		Sensitivity Evaluation	.005	
Arsenic	0.00172	0.00181	A		-5.0	0.00127 - 0.00235	.001	N
Barium	.061	0.0604	A		1.0	0.0423 - 0.0785	.005	A
Beryllium	.387	0.443	A		-12.6	0.310 - 0.576	.001	N
Cadmium	0.329	0.308	A		6.8	0.216 - 0.400	.001	N
Chromium	0.334	0.328	A		1.8	0.230 - 0.426	.02	A
Cobalt	0.3	0.300	A		0.0	0.210 - 0.390	.002	N
Copper	.416	0.428	A		-2.8	0.300 - 0.556	.001	N
Lead	.153	0.155	A		-1.3	0.109 - 0.202	.002	N
Mercury	0.074	0.0718	A		3.1	0.0503 - 0.0933	.002	A
Nickel	0.376	0.371	A		1.3	0.260 - 0.482	.002	N
Selenium	0.401	0.394	A		1.8	0.276 - 0.512	.002	N
Technetium-99	NR					False Positive Test		
Thallium	0.24	0.245	A		-2.0	0.172 - 0.319	.001	N
Uranium-235	0.00025	2.35E-4	A		6.4	1.65E-4 - 3.06E-4	.00001	A
Uranium-238	.036	0.0325	A		10.8	0.0228 - 0.0423	.001	A
Uranium-Total	.0308	0.0327	A		-5.8	0.0229 - 0.0425	.001	A
Vanadium	.408	0.400	A		2.0	0.280 - 0.520	.001	N
Zinc	.531	0.564	A		-5.9	0.395 - 0.733	.02	A

Radiological							Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	0.337	0.361	A		-6.6	0.253 - 0.469	.052	W
Cerium-139	27.8	26.4	A		5.3	18.5 - 34.3	1.81	A
Cesium-134	7.29	7.34	A		-0.7	5.14 - 9.54	0.54	A
Cesium-137	7.325	6.7	A		9.3	4.7 - 8.7	0.625	A
Cobalt-57	-.078		A			False Positive Test	0.197	
Cobalt-60	7.84	7.24	A		8.3	5.07 - 9.41	0.592	A
Hydrogen-3	272	276	A		-1.4	193 - 359	12.9	A
Iron-55	NR	33.0				23.1 - 42.9		
Manganese-54	8.80	7.95	A		10.7	5.57 - 10.34	0.721	A
Nickel-63	32.1	25.0	W		28.4	17.5 - 32.5	1.52	A
Plutonium-238	.001	0.0019	A	(17)		Sensitivity Evaluation	.012	
Plutonium-239/240	-.008	0.0037	A	(17)		Sensitivity Evaluation	.006	
Potassium-40	0.125		A			False Positive Test	1.76	

Radiological						Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Radium-226	NR	0.407				0.285 - 0.529	
Strontium-90	2.62	3.02	A		-13.2	2.11 - 3.93	0.105 A
Technetium-99	-0.771		A			False Positive Test	0.472
Uranium-234	0.38	0.426	A		-10.8	0.298 - 0.554	.043 A
Uranium-238	0.425	0.404	A		5.2	0.283 - 0.525	0.045 A
Zinc-65	25.1	23.1	A		8.7	16.2 - 30.0	1.96 A

Radiological Reference Date: August 1, 2025

Results Flags:

A = Result acceptable.....|Bias| <= 20%

W = Result acceptable with warning.....20% < |Bias| <= 30%

N = Result not acceptable.....|Bias| > 30%

RW = Report Warning

NR = Not Reported

Uncertainty Flags:

N = NOT ACCEPTABLE.....RP < 2%

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N = NOT ACCEPTABLE.....RP > 30%

Relative Precision (RP) = (Reported Uncertainty / Reported Result) x 100

Notes:

- (1) = False Positive
- (2) = False Negative
- (4) = Sensitivity Evaluation
- (6) = Not Evaluated
- (11) = False Positive Test, Result Not Reported
- (17) = NOT DETECTED - reported a statistically zero result
- (18) = Sensitivity Evaluation, Value Not Reported
- (25) = Result not reported with other gamma results
- (28) = Not Reporting Previously Reported Analyte
- (29) = Statistically significant negative value at 3 standard deviations



Laboratory Results For MAPEP-25-MaW53

(QUAN01) Eurofins St. Louis
13715 Rider Trail North
Earth City, MO 63045-1205

Inorganic							Units: (mg/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Antimony	NR	0.00017				Sensitivity Evaluation		
Arsenic	NR	0.00181				0.00127 - 0.00235		
Barium	NR	0.0604				0.0423 - 0.0785		
Beryllium	NR	0.443				0.310 - 0.576		
Cadmium	NR	0.308				0.216 - 0.400		
Chromium	NR	0.328				0.230 - 0.426		
Cobalt	NR	0.300				0.210 - 0.390		
Copper	NR	0.428				0.300 - 0.556		
Lead	NR	0.155				0.109 - 0.202		
Mercury	NR	0.0718				0.0503 - 0.0933		
Nickel	NR	0.371				0.260 - 0.482		
Selenium	NR	0.394				0.276 - 0.512		
Technetium-99	NR					False Positive Test		
Thallium	NR	0.245				0.172 - 0.319		
Uranium-235	NR	2.35E-4				1.65E-4 - 3.06E-4		
Uranium-238	NR	0.0325				0.0228 - 0.0423		
Uranium-Total	NR	0.0327				0.0229 - 0.0425		
Vanadium	NR	0.400				0.280 - 0.520		
Zinc	NR	0.564				0.395 - 0.733		

Radiological							Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	NR	0.361				0.253 - 0.469		
Cerium-139	NR	26.4				18.5 - 34.3		
Cesium-134	NR	7.34				5.14 - 9.54		
Cesium-137	NR	6.7				4.7 - 8.7		
Cobalt-57	NR					False Positive Test		
Cobalt-60	NR	7.24				5.07 - 9.41		
Hydrogen-3	NR	276				193 - 359		
Iron-55	NR	33.0				23.1 - 42.9		
Manganese-54	NR	7.95				5.57 - 10.34		
Nickel-63	NR	25.0				17.5 - 32.5		
Plutonium-238	NR	0.0019				Sensitivity Evaluation		
Plutonium-239/240	NR	0.0037				Sensitivity Evaluation		
Potassium-40	NR					False Positive Test		

Radiological						Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Radium-226	0.429	0.407	A		5.4	0.285 - 0.529	0.0294 A
Strontium-90	NR	3.02				2.11 - 3.93	
Technetium-99	NR					False Positive Test	
Uranium-234	NR	0.426				0.298 - 0.554	
Uranium-238	NR	0.404				0.283 - 0.525	
Zinc-65	NR	23.1				16.2 - 30.0	

Radiological Reference Date: August 1, 2025

Results Flags:

A = Result acceptable.....|Bias| ≤ 20%

W = Result acceptable with warning.....20% < |Bias| ≤ 30%

N = Result not acceptable.....|Bias| > 30%

RW = Report Warning

NR = Not Reported

Uncertainty Flags:

N = NOT ACCEPTABLE.....RP < 2%

A = ACCEPTABLE.....2% ≤ RP ≤ 15%

W = ACCEPTABLE WITH WARNING.....15% ≤ RP ≤ 30%

N = NOT ACCEPTABLE.....RP > 30%

Relative Precision (RP) = (Reported Uncertainty / Reported Result) x 100

Notes:

- (1) = False Positive
- (2) = False Negative
- (4) = Sensitivity Evaluation
- (6) = Not Evaluated
- (11) = False Positive Test, Result Not Reported
- (17) = NOT DETECTED - reported a statistically zero result
- (18) = Sensitivity Evaluation, Value Not Reported
- (25) = Result not reported with other gamma results
- (28) = Not Reporting Previously Reported Analyte
- (29) = Statistically significant negative value at 3 standard deviations



Laboratory Results For MAPEP-25-MaW53

(RJLG01) RJ Lee Group - Columbia Basin Analytical Laboratories (CBAL)

2710 North 20th Avenue

Pasco, WA 99301

Inorganic							Units: (mg/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Antimony	-0.0003	0.00017	N	(29)		Sensitivity Evaluation	0.00009	
Arsenic	-0.002	0.00181	N		-210.5	0.00127 - 0.00235	0.001	N
Barium	0.117	0.0604	N		93.7	0.0423 - 0.0785	0.005	A
Beryllium	0.429	0.443	A		-3.2	0.310 - 0.576	0.038	A
Cadmium	0.305	0.308	A		-1.0	0.216 - 0.400	0.015	A
Chromium	0.334	0.328	A		1.8	0.230 - 0.426	0.014	A
Cobalt	0.290	0.300	A		-3.3	0.210 - 0.390	0.015	A
Copper	0.398	0.428	A		-7.0	0.300 - 0.556	0.021	A
Lead	0.158	0.155	A		1.9	0.109 - 0.202	0.008	A
Mercury	0.069	0.0718	A		-3.9	0.0503 - 0.0933	0.004	A
Nickel	0.354	0.371	A		-4.6	0.260 - 0.482	0.016	A
Selenium	0.365	0.394	A		-7.4	0.276 - 0.512	0.029	A
Technetium-99	NR					False Positive Test		
Thallium	0.253	0.245	A		3.3	0.172 - 0.319	0.01	A
Uranium-235	NR	2.35E-4				1.65E-4 - 3.06E-4		
Uranium-238	NR	0.0325				0.0228 - 0.0423		
Uranium-Total	0.035	0.0327	A		7.0	0.0229 - 0.0425	0.001	A
Vanadium	0.409	0.400	A		2.3	0.280 - 0.520	0.016	A
Zinc	0.566	0.564	A		0.4	0.395 - 0.733	0.128	W

Radiological							Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	NR	0.361				0.253 - 0.469		
Cerium-139	NR	26.4				18.5 - 34.3		
Cesium-134	NR	7.34				5.14 - 9.54		
Cesium-137	NR	6.7				4.7 - 8.7		
Cobalt-57	NR					False Positive Test		
Cobalt-60	NR	7.24				5.07 - 9.41		
Hydrogen-3	NR	276				193 - 359		
Iron-55	NR	33.0				23.1 - 42.9		
Manganese-54	NR	7.95				5.57 - 10.34		
Nickel-63	NR	25.0				17.5 - 32.5		
Plutonium-238	NR	0.0019				Sensitivity Evaluation		
Plutonium-239/240	NR	0.0037				Sensitivity Evaluation		
Potassium-40	NR					False Positive Test		

Radiological						Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Radium-226	NR	0.407				0.285 - 0.529	
Strontium-90	NR	3.02				2.11 - 3.93	
Technetium-99	NR					False Positive Test	
Uranium-234	NR	0.426				0.298 - 0.554	
Uranium-238	NR	0.404				0.283 - 0.525	
Zinc-65	NR	23.1				16.2 - 30.0	

Radiological Reference Date: August 1, 2025

Results Flags:

A = Result acceptable.....|Bias| ≤ 20%

W = Result acceptable with warning.....20% < |Bias| ≤ 30%

N = Result not acceptable.....|Bias| > 30%

RW = Report Warning

NR = Not Reported

Uncertainty Flags:

N = NOT ACCEPTABLE.....RP < 2%

A = ACCEPTABLE.....2% ≤ RP ≤ 15%

W = ACCEPTABLE WITH WARNING.....15% ≤ RP ≤ 30%

N = NOT ACCEPTABLE.....RP > 30%

Relative Precision (RP) = (Reported Uncertainty / Reported Result) x 100

Notes:

(1) = False Positive

(2) = False Negative

(4) = Sensitivity Evaluation

(6) = Not Evaluated

(11) = False Positive Test, Result Not Reported

(17) = NOT DETECTED - reported a statistically zero result

(18) = Sensitivity Evaluation, Value Not Reported

(25) = Result not reported with other gamma results

(28) = Not Reporting Previously Reported Analyte

(29) = Statistically significant negative value at 3 standard deviations



Laboratory Results For MAPEP-25-MaW53

(RPSC01) Radiation Protection Service

O. Ministry of Labour, Immigration, Training & Skills Development

Mississauga, Ontario L4V 1W8

Inorganic							Units: (mg/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Antimony	NR	0.00017				Sensitivity Evaluation		
Arsenic	NR	0.00181				0.00127 - 0.00235		
Barium	NR	0.0604				0.0423 - 0.0785		
Beryllium	NR	0.443				0.310 - 0.576		
Cadmium	NR	0.308				0.216 - 0.400		
Chromium	NR	0.328				0.230 - 0.426		
Cobalt	NR	0.300				0.210 - 0.390		
Copper	NR	0.428				0.300 - 0.556		
Lead	NR	0.155				0.109 - 0.202		
Mercury	NR	0.0718				0.0503 - 0.0933		
Nickel	NR	0.371				0.260 - 0.482		
Selenium	NR	0.394				0.276 - 0.512		
Technetium-99	NR					False Positive Test		
Thallium	NR	0.245				0.172 - 0.319		
Uranium-235	NR	2.35E-4				1.65E-4 - 3.06E-4		
Uranium-238	NR	0.0325				0.0228 - 0.0423		
Uranium-Total	NR	0.0327				0.0229 - 0.0425		
Vanadium	NR	0.400				0.280 - 0.520		
Zinc	NR	0.564				0.395 - 0.733		

Radiological							Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	NR	0.361				0.253 - 0.469		
Cerium-139	27.6	26.4	A		4.5	18.5 - 34.3	1.46	A
Cesium-134	6.87	7.34	A		-6.4	5.14 - 9.54	0.37	A
Cesium-137	7.07	6.7	A		5.5	4.7 - 8.7	0.565	A
Cobalt-57	0.284		A			False Positive Test	0.599	
Cobalt-60	7.26	7.24	A		0.3	5.07 - 9.41	0.434	A
Hydrogen-3	271.88	276	A		-1.5	193 - 359	39.01	A
Iron-55	NR	33.0				23.1 - 42.9		
Manganese-54	8.01	7.95	A		0.8	5.57 - 10.34	0.646	A
Nickel-63	NR	25.0				17.5 - 32.5		
Plutonium-238	NR	0.0019				Sensitivity Evaluation		
Plutonium-239/240	NR	0.0037				Sensitivity Evaluation		
Potassium-40	1.48		A			False Positive Test	3.27	

Radiological						Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Radium-226	NR	0.407				0.285 - 0.529	
Strontium-90	NR	3.02				2.11 - 3.93	
Technetium-99	NR					False Positive Test	
Uranium-234	NR	0.426				0.298 - 0.554	
Uranium-238	NR	0.404				0.283 - 0.525	
Zinc-65	22.4	23.1	A		-3.0	16.2 - 30.0	1.61 A

Radiological Reference Date: August 1, 2025

Results Flags:

A = Result acceptable.....|Bias| ≤ 20%

W = Result acceptable with warning.....20% < |Bias| ≤ 30%

N = Result not acceptable.....|Bias| > 30%

RW = Report Warning

NR = Not Reported

Uncertainty Flags:

N = NOT ACCEPTABLE.....RP < 2%

A = ACCEPTABLE.....2% ≤ RP ≤ 15%

W = ACCEPTABLE WITH WARNING.....15% ≤ RP ≤ 30%

N = NOT ACCEPTABLE.....RP > 30%

Relative Precision (RP) = (Reported Uncertainty / Reported Result) x 100

Notes:

(1) = False Positive

(2) = False Negative

(4) = Sensitivity Evaluation

(6) = Not Evaluated

(11) = False Positive Test, Result Not Reported

(17) = NOT DETECTED - reported a statistically zero result

(18) = Sensitivity Evaluation, Value Not Reported

(25) = Result not reported with other gamma results

(28) = Not Reporting Previously Reported Analyte

(29) = Statistically significant negative value at 3 standard deviations



Laboratory Results For MAPEP-25-MaW53
(SANC99) RadioAnalysis, South Africa Nuclear Energy Corp.
Sample Receipt Gate 1
Pretoria, Gauteng 0001

Inorganic							Units: (mg/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Antimony	NR	0.00017				Sensitivity Evaluation		
Arsenic	NR	0.00181				0.00127 - 0.00235		
Barium	NR	0.0604				0.0423 - 0.0785		
Beryllium	NR	0.443				0.310 - 0.576		
Cadmium	NR	0.308				0.216 - 0.400		
Chromium	NR	0.328				0.230 - 0.426		
Cobalt	NR	0.300				0.210 - 0.390		
Copper	NR	0.428				0.300 - 0.556		
Lead	NR	0.155				0.109 - 0.202		
Mercury	NR	0.0718				0.0503 - 0.0933		
Nickel	NR	0.371				0.260 - 0.482		
Selenium	NR	0.394				0.276 - 0.512		
Technetium-99	NR					False Positive Test		
Thallium	NR	0.245				0.172 - 0.319		
Uranium-235	NR	2.35E-4				1.65E-4 - 3.06E-4		
Uranium-238	NR	0.0325				0.0228 - 0.0423		
Uranium-Total	NR	0.0327				0.0229 - 0.0425		
Vanadium	NR	0.400				0.280 - 0.520		
Zinc	NR	0.564				0.395 - 0.733		

Radiological							Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	0.696	0.361	N		92.8	0.253 - 0.469	0.055	A
Cerium-139	25.6	26.4	A		-3.0	18.5 - 34.3	1.2	A
Cesium-134	6.20	7.34	A		-15.5	5.14 - 9.54	0.25	A
Cesium-137	6.78	6.7	A		1.2	4.7 - 8.7	0.28	A
Cobalt-57	2.22		A			False Positive Test	2.22	
Cobalt-60	6.55	7.24	A		-9.5	5.07 - 9.41	0.31	A
Hydrogen-3	262.3	276	A		-5.0	193 - 359	16.1	A
Iron-55	NR	33.0				23.1 - 42.9		
Manganese-54	7.68	7.95	A		-3.4	5.57 - 10.34	0.31	A
Nickel-63	NR	25.0				17.5 - 32.5		
Plutonium-238	0.027	0.0019	N	(4)		Sensitivity Evaluation	0.004	
Plutonium-239/240	0.130	0.0037	N	(4)		Sensitivity Evaluation	0.013	
Potassium-40	4.01		A			False Positive Test	4.01	

Radiological							Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Radium-226	0.301	0.407	W		-26.0	0.285 - 0.529	0.030	A
Strontium-90	2.69	3.02	A		-10.9	2.11 - 3.93	0.36	A
Technetium-99	NR					False Positive Test		
Uranium-234	0.319	0.426	W		-25.1	0.298 - 0.554	0.016	A
Uranium-238	0.316	0.404	W		-21.8	0.283 - 0.525	0.016	A
Zinc-65	19.98	23.1	A		-13.5	16.2 - 30.0	0.83	A

Radiological Reference Date: August 1, 2025

Results Flags:

A = Result acceptable.....|Bias| <= 20%

W = Result acceptable with warning.....20% < |Bias| <= 30%

N = Result not acceptable.....|Bias| > 30%

RW = Report Warning

NR = Not Reported

Uncertainty Flags:

N = NOT ACCEPTABLE.....RP < 2%

A = ACCEPTABLE.....2% <= RP <= 15%

W = ACCEPTABLE WITH WARNING.....15% <= RP <= 30%

N = NOT ACCEPTABLE.....RP > 30%

Relative Precision (RP) = (Reported Uncertainty / Reported Result) x 100

Notes:

(1) = False Positive

(2) = False Negative

(4) = Sensitivity Evaluation

(6) = Not Evaluated

(11) = False Positive Test, Result Not Reported

(17) = NOT DETECTED - reported a statistically zero result

(18) = Sensitivity Evaluation, Value Not Reported

(25) = Result not reported with other gamma results

(28) = Not Reporting Previously Reported Analyte

(29) = Statistically significant negative value at 3 standard deviations



Laboratory Results For MAPEP-25-MaW53
(SAVA01) Battelle Savannah River Alliance
SRNL (non-purchased material receipt)
AIKEN, SC 29808-0000

Inorganic							Units: (mg/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Antimony	0.000207	0.00017	A	(17)		Sensitivity Evaluation	0.000072	
Arsenic	0.00159	0.00181	A		-12.2	0.00127 - 0.00235	0.000555	N
Barium	0.0609	0.0604	A		0.8	0.0423 - 0.0785	0.00609	A
Beryllium	0.424	0.443	A		-4.3	0.310 - 0.576	0.022	A
Cadmium	0.294	0.308	A		-4.5	0.216 - 0.400	0.0294	A
Chromium	0.326	0.328	A		-0.6	0.230 - 0.426	0.017	A
Cobalt	0.271	0.300	A		-9.7	0.210 - 0.390	0.014	A
Copper	0.405	0.428	A		-5.4	0.300 - 0.556	0.021	A
Lead	0.152	0.155	A		-1.9	0.109 - 0.202	0.0152	A
Mercury	0.0735	0.0718	A		2.4	0.0503 - 0.0933	0.00735	A
Nickel	0.346	0.371	A		-6.7	0.260 - 0.482	0.018	A
Selenium	0.374	0.394	A		-5.1	0.276 - 0.512	0.0374	A
Technetium-99	NR					False Positive Test		
Thallium	0.240	0.245	A		-2.0	0.172 - 0.319	0.0240	A
Uranium-235	NR	2.35E-4				1.65E-4 - 3.06E-4		
Uranium-238	NR	0.0325				0.0228 - 0.0423		
Uranium-Total	0.0323	0.0327	A		-1.2	0.0229 - 0.0425	0.00323	A
Vanadium	0.402	0.400	A		0.5	0.280 - 0.520	0.021	A
Zinc	0.528	0.564	A		-6.4	0.395 - 0.733	0.027	A

Radiological							Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	NR	0.361				0.253 - 0.469		
Cerium-139	NR	26.4				18.5 - 34.3		
Cesium-134	7.40	7.34	A		0.8	5.14 - 9.54	0.379	A
Cesium-137	6.55	6.7	A		-2.2	4.7 - 8.7	0.870	A
Cobalt-57	2.47		A			False Positive Test	1.27	
Cobalt-60	6.69	7.24	A		-7.6	5.07 - 9.41	0.431	A
Hydrogen-3	NR	276				193 - 359		
Iron-55	NR	33.0				23.1 - 42.9		
Manganese-54	8.45	7.95	A		6.3	5.57 - 10.34	0.772	A
Nickel-63	NR	25.0				17.5 - 32.5		
Plutonium-238	NR	0.0019				Sensitivity Evaluation		
Plutonium-239/240	NR	0.0037				Sensitivity Evaluation		
Potassium-40	25.3		A			False Positive Test	11.3	

Radiological						Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Radium-226	NR	0.407				0.285 - 0.529	
Strontium-90	NR	3.02				2.11 - 3.93	
Technetium-99	NR					False Positive Test	
Uranium-234	NR	0.426				0.298 - 0.554	
Uranium-238	NR	0.404				0.283 - 0.525	
Zinc-65	22.3	23.1	A		-3.5	16.2 - 30.0	1.20 A

Radiological Reference Date: August 1, 2025

Results Flags:

A = Result acceptable.....|Bias| <= 20%

W = Result acceptable with warning.....20% < |Bias| <= 30%

N = Result not acceptable.....|Bias| > 30%

RW = Report Warning

NR = Not Reported

Uncertainty Flags:

N = NOT ACCEPTABLE.....RP < 2%

A = ACCEPTABLE.....2% <= RP <= 15%

W = ACCEPTABLE WITH WARNING.....15% <= RP <= 30%

N = NOT ACCEPTABLE.....RP > 30%

Relative Precision (RP) = (Reported Uncertainty / Reported Result) x 100

Notes:

(1) = False Positive

(2) = False Negative

(4) = Sensitivity Evaluation

(6) = Not Evaluated

(11) = False Positive Test, Result Not Reported

(17) = NOT DETECTED - reported a statistically zero result

(18) = Sensitivity Evaluation, Value Not Reported

(25) = Result not reported with other gamma results

(28) = Not Reporting Previously Reported Analyte

(29) = Statistically significant negative value at 3 standard deviations



Laboratory Results For MAPEP-25-MaW53
(SEML01) SRS Environmental Monitoring Laboratory
Bldg 735-B
Aiken, SC 29808

Inorganic							Units: (mg/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Antimony	0.010	0.00017	A	(17)		Sensitivity Evaluation	0.010	
Arsenic	0.010	0.00181	A	(4)	452.5	0.00127 - 0.00235	0.010	N
Barium	0.0550	0.0604	A		-8.9	0.0423 - 0.0785	0.0050	A
Beryllium	0.386	0.443	A		-12.9	0.310 - 0.576	0.031	A
Cadmium	0.277	0.308	A		-10.1	0.216 - 0.400	0.030	A
Chromium	0.301	0.328	A		-8.2	0.230 - 0.426	0.030	A
Cobalt	0.268	0.300	A		-10.7	0.210 - 0.390	0.024	A
Copper	0.378	0.428	A		-11.7	0.300 - 0.556	0.038	A
Lead	0.147	0.155	A		-5.2	0.109 - 0.202	0.014	A
Mercury	0.0746	0.0718	A		3.9	0.0503 - 0.0933	0.00746	A
Nickel	0.318	0.371	A		-14.3	0.260 - 0.482	0.032	A
Selenium	0.364	0.394	A		-7.6	0.276 - 0.512	0.047	A
Technetium-99	NR					False Positive Test		
Thallium	0.267	0.245	A		9.0	0.172 - 0.319	0.027	A
Uranium-235	NR	2.35E-4				1.65E-4 - 3.06E-4		
Uranium-238	NR	0.0325				0.0228 - 0.0423		
Uranium-Total	NR	0.0327				0.0229 - 0.0425		
Vanadium	0.374	0.400	A		-6.5	0.280 - 0.520	0.034	A
Zinc	0.504	0.564	A		-10.6	0.395 - 0.733	0.050	A

Radiological							Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	0.370	0.361	A		2.5	0.253 - 0.469	0.033	A
Cerium-139	27.7	26.4	A		4.9	18.5 - 34.3	2.2	A
Cesium-134	7.28	7.34	A		-0.8	5.14 - 9.54	0.57	A
Cesium-137	6.86	6.7	A		2.4	4.7 - 8.7	0.61	A
Cobalt-57	-0.08		A			False Positive Test	0.21	
Cobalt-60	7.54	7.24	A		4.1	5.07 - 9.41	0.55	A
Hydrogen-3	294	276	A		6.5	193 - 359	33	A
Iron-55	NR	33.0				23.1 - 42.9		
Manganese-54	8.23	7.95	A		3.5	5.57 - 10.34	0.77	A
Nickel-63	NR	25.0				17.5 - 32.5		
Plutonium-238	0.0027	0.0019	A	(17)		Sensitivity Evaluation	0.0035	
Plutonium-239/240	0.0037	0.0037	A	(17)		Sensitivity Evaluation	0.0044	
Potassium-40	0.4		A			False Positive Test	1.1	

Radiological						Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Radium-226	NR	0.407				0.285 - 0.529	
Strontium-90	3.29	3.02	A		8.9	2.11 - 3.93	0.26 A
Technetium-99	-0.06		A			False Positive Test	0.24
Uranium-234	0.411	0.426	A		-3.5	0.298 - 0.554	0.027 A
Uranium-238	0.403	0.404	A		-0.2	0.283 - 0.525	0.026 A
Zinc-65	24.5	23.1	A		6.1	16.2 - 30.0	2.0 A

Radiological Reference Date: August 1, 2025

Results Flags:

A = Result acceptable.....|Bias| <= 20%

W = Result acceptable with warning.....20% < |Bias| <= 30%

N = Result not acceptable.....|Bias| > 30%

RW = Report Warning

NR = Not Reported

Uncertainty Flags:

N = NOT ACCEPTABLE.....RP < 2%

A = ACCEPTABLE.....2% <= RP <= 15%

W = ACCEPTABLE WITH WARNING.....15% <= RP <= 30%

N = NOT ACCEPTABLE.....RP > 30%

Relative Precision (RP) = (Reported Uncertainty / Reported Result) x 100

Notes:

(1) = False Positive

(2) = False Negative

(4) = Sensitivity Evaluation

(6) = Not Evaluated

(11) = False Positive Test, Result Not Reported

(17) = NOT DETECTED - reported a statistically zero result

(18) = Sensitivity Evaluation, Value Not Reported

(25) = Result not reported with other gamma results

(28) = Not Reporting Previously Reported Analyte

(29) = Statistically significant negative value at 3 standard deviations



Laboratory Results For MAPEP-25-MaW53
(SLAC01) SLAC DOE National Accelerator Laboratory
2575 Sand Hill Road
Menlo Park, CA 94025

Inorganic							Units: (mg/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Antimony	NR	0.00017				Sensitivity Evaluation		
Arsenic	NR	0.00181				0.00127 - 0.00235		
Barium	NR	0.0604				0.0423 - 0.0785		
Beryllium	NR	0.443				0.310 - 0.576		
Cadmium	NR	0.308				0.216 - 0.400		
Chromium	NR	0.328				0.230 - 0.426		
Cobalt	NR	0.300				0.210 - 0.390		
Copper	NR	0.428				0.300 - 0.556		
Lead	NR	0.155				0.109 - 0.202		
Mercury	NR	0.0718				0.0503 - 0.0933		
Nickel	NR	0.371				0.260 - 0.482		
Selenium	NR	0.394				0.276 - 0.512		
Technetium-99	NR					False Positive Test		
Thallium	NR	0.245				0.172 - 0.319		
Uranium-235	NR	2.35E-4				1.65E-4 - 3.06E-4		
Uranium-238	NR	0.0325				0.0228 - 0.0423		
Uranium-Total	NR	0.0327				0.0229 - 0.0425		
Vanadium	NR	0.400				0.280 - 0.520		
Zinc	NR	0.564				0.395 - 0.733		

Radiological							Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	NR	0.361				0.253 - 0.469		
Cerium-139	NR	26.4				18.5 - 34.3		
Cesium-134	6.46	7.34	A		-12.0	5.14 - 9.54	0.65	A
Cesium-137	6.51	6.7	A		-2.8	4.7 - 8.7	0.65	A
Cobalt-57	0.31		A			False Positive Test	0.31	
Cobalt-60	6.64	7.24	A		-8.3	5.07 - 9.41	0.66	A
Hydrogen-3	253	276	A		-8.3	193 - 359	25.26	A
Iron-55	NR	33.0				23.1 - 42.9		
Manganese-54	8.12	7.95	A		2.1	5.57 - 10.34	0.81	A
Nickel-63	NR	25.0				17.5 - 32.5		
Plutonium-238	NR	0.0019				Sensitivity Evaluation		
Plutonium-239/240	NR	0.0037				Sensitivity Evaluation		
Potassium-40	5.33		N	(1)		False Positive Test	0.53	

Radiological						Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Radium-226	NR	0.407				0.285 - 0.529	
Strontium-90	NR	3.02				2.11 - 3.93	
Technetium-99	NR					False Positive Test	
Uranium-234	NR	0.426				0.298 - 0.554	
Uranium-238	NR	0.404				0.283 - 0.525	
Zinc-65	21.09	23.1	A		-8.7	16.2 - 30.0	2.11 A

Radiological Reference Date: August 1, 2025

Results Flags:

A = Result acceptable.....|Bias| ≤ 20%

W = Result acceptable with warning.....20% < |Bias| ≤ 30%

N = Result not acceptable.....|Bias| > 30%

RW = Report Warning

NR = Not Reported

Uncertainty Flags:

N = NOT ACCEPTABLE.....RP < 2%

A = ACCEPTABLE.....2% ≤ RP ≤ 15%

W = ACCEPTABLE WITH WARNING.....15% ≤ RP ≤ 30%

N = NOT ACCEPTABLE.....RP > 30%

Relative Precision (RP) = (Reported Uncertainty / Reported Result) x 100

Notes:

(1) = False Positive

(2) = False Negative

(4) = Sensitivity Evaluation

(6) = Not Evaluated

(11) = False Positive Test, Result Not Reported

(17) = NOT DETECTED - reported a statistically zero result

(18) = Sensitivity Evaluation, Value Not Reported

(25) = Result not reported with other gamma results

(28) = Not Reporting Previously Reported Analyte

(29) = Statistically significant negative value at 3 standard deviations



Laboratory Results For MAPEP-25-MaW53
(SLDA01) USACE SLDA FUSRAP Project
2992 River Road
Vandergrift, PA 15690

Inorganic							Units: (mg/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Antimony	NR	0.00017				Sensitivity Evaluation		
Arsenic	NR	0.00181				0.00127 - 0.00235		
Barium	NR	0.0604				0.0423 - 0.0785		
Beryllium	NR	0.443				0.310 - 0.576		
Cadmium	NR	0.308				0.216 - 0.400		
Chromium	NR	0.328				0.230 - 0.426		
Cobalt	NR	0.300				0.210 - 0.390		
Copper	NR	0.428				0.300 - 0.556		
Lead	NR	0.155				0.109 - 0.202		
Mercury	NR	0.0718				0.0503 - 0.0933		
Nickel	NR	0.371				0.260 - 0.482		
Selenium	NR	0.394				0.276 - 0.512		
Technetium-99	-1.43E-07		N	(29)		False Positive Test	1.43E-08	
Thallium	NR	0.245				0.172 - 0.319		
Uranium-235	NR	2.35E-4				1.65E-4 - 3.06E-4		
Uranium-238	NR	0.0325				0.0228 - 0.0423		
Uranium-Total	0.0304608	0.0327	A		-6.8	0.0229 - 0.0425	0.000456	N
Vanadium	NR	0.400				0.280 - 0.520		
Zinc	NR	0.564				0.395 - 0.733		

Radiological							Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	0.3425	0.361	A		-5.1	0.253 - 0.469	0.0478	A
Cerium-139	26.0480	26.4	A		-1.3	18.5 - 34.3	0.3750	N
Cesium-134	6.3001	7.34	A		-14.2	5.14 - 9.54	0.1089	N
Cesium-137	6.7484	6.7	A		0.7	4.7 - 8.7	0.1534	A
Cobalt-57	0.2785		A			False Positive Test	0.4523	
Cobalt-60	7.2561	7.24	A		0.2	5.07 - 9.41	0.1477	A
Hydrogen-3	NR	276				193 - 359		
Iron-55	NR	33.0				23.1 - 42.9		
Manganese-54	8.1654	7.95	A		2.7	5.57 - 10.34	0.1757	A
Nickel-63	NR	25.0				17.5 - 32.5		
Plutonium-238	0.0146	0.0019	A	(17)		Sensitivity Evaluation	0.0216	
Plutonium-239/240	0.0140	0.0037	A	(17)		Sensitivity Evaluation	0.0099	
Potassium-40	0.458		A			False Positive Test	0.3982	

Radiological						Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Radium-226	NR	0.407				0.285 - 0.529	
Strontium-90	1.998	3.02	N		-33.8	2.11 - 3.93	0.092 A
Technetium-99	-2.4587		N	(29)		False Positive Test	0.247162
Uranium-234	0.4169	0.426	A		-2.1	0.298 - 0.554	0.0361 A
Uranium-238	0.4220	0.404	A		4.5	0.283 - 0.525	0.0364 A
Zinc-65	24.7390	23.1	A		7.1	16.2 - 30.0	0.5095 A

Radiological Reference Date: August 1, 2025

Results Flags:

A = Result acceptable.....|Bias| <= 20%

W = Result acceptable with warning.....20% < |Bias| <= 30%

N = Result not acceptable.....|Bias| > 30%

RW = Report Warning

NR = Not Reported

Uncertainty Flags:

N = NOT ACCEPTABLE.....RP < 2%

A = ACCEPTABLE.....2% <= RP <= 15%

W = ACCEPTABLE WITH WARNING.....15% <= RP <= 30%

N = NOT ACCEPTABLE.....RP > 30%

Relative Precision (RP) = (Reported Uncertainty / Reported Result) x 100

Notes:

(1) = False Positive

(2) = False Negative

(4) = Sensitivity Evaluation

(6) = Not Evaluated

(11) = False Positive Test, Result Not Reported

(17) = NOT DETECTED - reported a statistically zero result

(18) = Sensitivity Evaluation, Value Not Reported

(25) = Result not reported with other gamma results

(28) = Not Reporting Previously Reported Analyte

(29) = Statistically significant negative value at 3 standard deviations



Laboratory Results For MAPEP-25-MaW53

(SOUT01) Southwest Research Institute

6220 Culebra Rd.

San Antonio, TX 78238-5166

Inorganic							Units: (mg/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Antimony	NR	0.00017				Sensitivity Evaluation		
Arsenic	NR	0.00181				0.00127 - 0.00235		
Barium	NR	0.0604				0.0423 - 0.0785		
Beryllium	NR	0.443				0.310 - 0.576		
Cadmium	NR	0.308				0.216 - 0.400		
Chromium	NR	0.328				0.230 - 0.426		
Cobalt	NR	0.300				0.210 - 0.390		
Copper	NR	0.428				0.300 - 0.556		
Lead	NR	0.155				0.109 - 0.202		
Mercury	NR	0.0718				0.0503 - 0.0933		
Nickel	NR	0.371				0.260 - 0.482		
Selenium	NR	0.394				0.276 - 0.512		
Technetium-99	NR					False Positive Test		
Thallium	NR	0.245				0.172 - 0.319		
Uranium-235	0.000224	2.35E-4	A		-4.7	1.65E-4 - 3.06E-4	0.000067	N
Uranium-238	0.0334	0.0325	A		2.8	0.0228 - 0.0423	0.00536	W
Uranium-Total	0.0337	0.0327	A		3.1	0.0229 - 0.0425	0.00541	W
Vanadium	NR	0.400				0.280 - 0.520		
Zinc	NR	0.564				0.395 - 0.733		

Radiological							Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	0.370	0.361	A		2.5	0.253 - 0.469	0.0344	A
Cerium-139	NR	26.4				18.5 - 34.3		
Cesium-134	7.00	7.34	A		-4.6	5.14 - 9.54	0.331	A
Cesium-137	6.78	6.7	A		1.2	4.7 - 8.7	0.323	A
Cobalt-57	0.0607		A			False Positive Test	0.134	
Cobalt-60	7.56	7.24	A		4.4	5.07 - 9.41	0.393	A
Hydrogen-3	NR	276				193 - 359		
Iron-55	27.1	33.0	A		-17.9	23.1 - 42.9	2.31	A
Manganese-54	NR	7.95	N	(25)		5.57 - 10.34		
Nickel-63	NR	25.0	N	(28)		17.5 - 32.5		
Plutonium-238	0.00001	0.0019	A	(17)		Sensitivity Evaluation	0.00185	
Plutonium-239/240	0.00922	0.0037	A	(17)		Sensitivity Evaluation	0.00324	
Potassium-40	4.30		A			False Positive Test	1.97	

Radiological						Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Radium-226	0.374	0.407	A		-8.1	0.285 - 0.529	0.0296 A
Strontium-90	NR	3.02				2.11 - 3.93	
Technetium-99	NR		N	(11)		False Positive Test	
Uranium-234	0.400	0.426	A		-6.1	0.298 - 0.554	0.0318 A
Uranium-238	0.396	0.404	A		-2.0	0.283 - 0.525	0.0316 A
Zinc-65	23.3	23.1	A		0.9	16.2 - 30.0	1.05 A

Radiological Reference Date: August 1, 2025

Results Flags:

A = Result acceptable.....|Bias| <= 20%

W = Result acceptable with warning.....20% < |Bias| <= 30%

N = Result not acceptable.....|Bias| > 30%

RW = Report Warning

NR = Not Reported

Uncertainty Flags:

N = NOT ACCEPTABLE.....RP < 2%

A = ACCEPTABLE.....2% <= RP <= 15%

W = ACCEPTABLE WITH WARNING.....15% <= RP <= 30%

N = NOT ACCEPTABLE.....RP > 30%

Relative Precision (RP) = (Reported Uncertainty / Reported Result) x 100

Notes:

(1) = False Positive

(2) = False Negative

(4) = Sensitivity Evaluation

(6) = Not Evaluated

(11) = False Positive Test, Result Not Reported

(17) = NOT DETECTED - reported a statistically zero result

(18) = Sensitivity Evaluation, Value Not Reported

(25) = Result not reported with other gamma results

(28) = Not Reporting Previously Reported Analyte

(29) = Statistically significant negative value at 3 standard deviations



Laboratory Results For MAPEP-25-MaW53

(SRPD01) Sandia National Laboratories, Radiation Protection Sample Diagnostics

PO Box 5800, MS1103

Albuquerque, NM 87185-1103

Inorganic							Units: (mg/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Antimony	NR	0.00017				Sensitivity Evaluation		
Arsenic	NR	0.00181				0.00127 - 0.00235		
Barium	NR	0.0604				0.0423 - 0.0785		
Beryllium	NR	0.443				0.310 - 0.576		
Cadmium	NR	0.308				0.216 - 0.400		
Chromium	NR	0.328				0.230 - 0.426		
Cobalt	NR	0.300				0.210 - 0.390		
Copper	NR	0.428				0.300 - 0.556		
Lead	NR	0.155				0.109 - 0.202		
Mercury	NR	0.0718				0.0503 - 0.0933		
Nickel	NR	0.371				0.260 - 0.482		
Selenium	NR	0.394				0.276 - 0.512		
Technetium-99	NR					False Positive Test		
Thallium	NR	0.245				0.172 - 0.319		
Uranium-235	NR	2.35E-4				1.65E-4 - 3.06E-4		
Uranium-238	NR	0.0325				0.0228 - 0.0423		
Uranium-Total	NR	0.0327				0.0229 - 0.0425		
Vanadium	NR	0.400				0.280 - 0.520		
Zinc	NR	0.564				0.395 - 0.733		

Radiological							Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	NR	0.361				0.253 - 0.469		
Cerium-139	2.43E+01	26.4	A		-8.0	18.5 - 34.3	2.33	A
Cesium-134	6.31E+00	7.34	A		-14.0	5.14 - 9.54	5.30E-01	A
Cesium-137	6.39E+00	6.7	A		-4.6	4.7 - 8.7	5.28E-01	A
Cobalt-57	3.85E-01		A			False Positive Test	2.70E-01	
Cobalt-60	5.83E+00	7.24	A		-19.5	5.07 - 9.41	4.51E-01	A
Hydrogen-3	NR	276				193 - 359		
Iron-55	NR	33.0				23.1 - 42.9		
Manganese-54	7.15E+00	7.95	A		-10.1	5.57 - 10.34	5.37E-01	A
Nickel-63	NR	25.0				17.5 - 32.5		
Plutonium-238	NR	0.0019				Sensitivity Evaluation		
Plutonium-239/240	NR	0.0037				Sensitivity Evaluation		
Potassium-40	1.56E+01		N	(1)		False Positive Test	2.44	

Radiological						Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Radium-226	NR	0.407				0.285 - 0.529	
Strontium-90	NR	3.02				2.11 - 3.93	
Technetium-99	NR					False Positive Test	
Uranium-234	NR	0.426				0.298 - 0.554	
Uranium-238	NR	0.404				0.283 - 0.525	
Zinc-65	1.86E+01	23.1	A		-19.5	16.2 - 30.0	1.25 A

Radiological Reference Date: August 1, 2025

Results Flags:

A = Result acceptable.....|Bias| ≤ 20%

W = Result acceptable with warning.....20% < |Bias| ≤ 30%

N = Result not acceptable.....|Bias| > 30%

RW = Report Warning

NR = Not Reported

Uncertainty Flags:

N = NOT ACCEPTABLE.....RP < 2%

A = ACCEPTABLE.....2% ≤ RP ≤ 15%

W = ACCEPTABLE WITH WARNING.....15% ≤ RP ≤ 30%

N = NOT ACCEPTABLE.....RP > 30%

Relative Precision (RP) = (Reported Uncertainty / Reported Result) x 100

Notes:

- (1) = False Positive
- (2) = False Negative
- (4) = Sensitivity Evaluation
- (6) = Not Evaluated
- (11) = False Positive Test, Result Not Reported
- (17) = NOT DETECTED - reported a statistically zero result
- (18) = Sensitivity Evaluation, Value Not Reported
- (25) = Result not reported with other gamma results
- (28) = Not Reporting Previously Reported Analyte
- (29) = Statistically significant negative value at 3 standard deviations



Laboratory Results For MAPEP-25-MaW53
(STRL01) South Texas Project Radiological Laboratory
12090 FM 521
Wadsworth, Texas 77483

Inorganic							Units: (mg/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Antimony	NR	0.00017				Sensitivity Evaluation		
Arsenic	NR	0.00181				0.00127 - 0.00235		
Barium	NR	0.0604				0.0423 - 0.0785		
Beryllium	NR	0.443				0.310 - 0.576		
Cadmium	NR	0.308				0.216 - 0.400		
Chromium	NR	0.328				0.230 - 0.426		
Cobalt	NR	0.300				0.210 - 0.390		
Copper	NR	0.428				0.300 - 0.556		
Lead	NR	0.155				0.109 - 0.202		
Mercury	NR	0.0718				0.0503 - 0.0933		
Nickel	NR	0.371				0.260 - 0.482		
Selenium	NR	0.394				0.276 - 0.512		
Technetium-99	NR					False Positive Test		
Thallium	NR	0.245				0.172 - 0.319		
Uranium-235	NR	2.35E-4				1.65E-4 - 3.06E-4		
Uranium-238	NR	0.0325				0.0228 - 0.0423		
Uranium-Total	NR	0.0327				0.0229 - 0.0425		
Vanadium	NR	0.400				0.280 - 0.520		
Zinc	NR	0.564				0.395 - 0.733		

Radiological							Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	NR	0.361				0.253 - 0.469		
Cerium-139	NR	26.4				18.5 - 34.3		
Cesium-134	7.05	7.34	A		-4.0	5.14 - 9.54	0.1	N
Cesium-137	6.54	6.7	A		-2.4	4.7 - 8.7	0.063	N
Cobalt-57	NR		N	(11)		False Positive Test		
Cobalt-60	7.12	7.24	A		-1.7	5.07 - 9.41	0.12	N
Hydrogen-3	281.5	276	A		2.0	193 - 359	5.23	N
Iron-55	NR	33.0				23.1 - 42.9		
Manganese-54	7.96	7.95	A		0.1	5.57 - 10.34	0.24	A
Nickel-63	NR	25.0				17.5 - 32.5		
Plutonium-238	NR	0.0019				Sensitivity Evaluation		
Plutonium-239/240	NR	0.0037				Sensitivity Evaluation		
Potassium-40	NR		N	(11)		False Positive Test		

Radiological						Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Radium-226	NR	0.407				0.285 - 0.529	
Strontium-90	NR	3.02				2.11 - 3.93	
Technetium-99	NR					False Positive Test	
Uranium-234	NR	0.426				0.298 - 0.554	
Uranium-238	NR	0.404				0.283 - 0.525	
Zinc-65	23.81	23.1	A		3.1	16.2 - 30.0	0.44 N

Radiological Reference Date: August 1, 2025

Results Flags:

A = Result acceptable.....|Bias| <= 20%

W = Result acceptable with warning.....20% < |Bias| <= 30%

N = Result not acceptable.....|Bias| > 30%

RW = Report Warning

NR = Not Reported

Uncertainty Flags:

N = NOT ACCEPTABLE.....RP < 2%

A = ACCEPTABLE.....2% <= RP <= 15%

W = ACCEPTABLE WITH WARNING.....15% <= RP <= 30%

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Relative Precision (RP) = (Reported Uncertainty / Reported Result) x 100

Notes:

(1) = False Positive

(2) = False Negative

(4) = Sensitivity Evaluation

(6) = Not Evaluated

(11) = False Positive Test, Result Not Reported

(17) = NOT DETECTED - reported a statistically zero result

(18) = Sensitivity Evaluation, Value Not Reported

(25) = Result not reported with other gamma results

(28) = Not Reporting Previously Reported Analyte

(29) = Statistically significant negative value at 3 standard deviations



Laboratory Results For MAPEP-25-MaW53

(TDHL01) Texas Department of State Health Services Laboratory
 1100 W 49th Street
 Austin, TX 78756

Inorganic						Units: (mg/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Flag
Antimony	NR	0.00017				Sensitivity Evaluation	
Arsenic	NR	0.00181				0.00127 - 0.00235	
Barium	NR	0.0604				0.0423 - 0.0785	
Beryllium	NR	0.443				0.310 - 0.576	
Cadmium	NR	0.308				0.216 - 0.400	
Chromium	NR	0.328				0.230 - 0.426	
Cobalt	NR	0.300				0.210 - 0.390	
Copper	NR	0.428				0.300 - 0.556	
Lead	NR	0.155				0.109 - 0.202	
Mercury	NR	0.0718				0.0503 - 0.0933	
Nickel	NR	0.371				0.260 - 0.482	
Selenium	NR	0.394				0.276 - 0.512	
Technetium-99	NR					False Positive Test	
Thallium	NR	0.245				0.172 - 0.319	
Uranium-235	NR	2.35E-4				1.65E-4 - 3.06E-4	
Uranium-238	NR	0.0325				0.0228 - 0.0423	
Uranium-Total	NR	0.0327				0.0229 - 0.0425	
Vanadium	NR	0.400				0.280 - 0.520	
Zinc	NR	0.564				0.395 - 0.733	

Radiological						Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Flag
Americium-241	0.331	0.361	A		-8.3	0.253 - 0.469	0.037 A
Cerium-139	NR	26.4				18.5 - 34.3	
Cesium-134	6.83	7.34	A		-6.9	5.14 - 9.54	0.14 A
Cesium-137	6.53	6.7	A		-2.5	4.7 - 8.7	0.23 A
Cobalt-57	-0.117		A			False Positive Test	0.061
Cobalt-60	7.12	7.24	A		-1.7	5.07 - 9.41	0.16 A
Hydrogen-3	266	276	A		-3.6	193 - 359	14 A
Iron-55	NR	33.0				23.1 - 42.9	
Manganese-54	7.80	7.95	A		-1.9	5.57 - 10.34	0.23 A
Nickel-63	NR	25.0				17.5 - 32.5	
Plutonium-238	-0.00042	0.0019	A	(17)		Sensitivity Evaluation	0.00030
Plutonium-239/240	-0.00021	0.0037	N	(2)		Sensitivity Evaluation	0.00021
Potassium-40	-0.30		A			False Positive Test	0.66

Radiological						Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Radium-226	0.398	0.407	A		-2.2	0.285 - 0.529	0.019 A
Strontium-90	3.00	3.02	A		-0.7	2.11 - 3.93	0.13 A
Technetium-99	NR					False Positive Test	
Uranium-234	0.361	0.426	A		-15.3	0.298 - 0.554	0.040 A
Uranium-238	0.406	0.404	A		0.5	0.283 - 0.525	0.044 A
Zinc-65	23.65	23.1	A		2.4	16.2 - 30.0	0.67 A

Radiological Reference Date: August 1, 2025

Results Flags:

A = Result acceptable.....|Bias| <= 20%

W = Result acceptable with warning.....20% < |Bias| <= 30%

N = Result not acceptable.....|Bias| > 30%

RW = Report Warning

NR = Not Reported

Uncertainty Flags:

N = NOT ACCEPTABLE.....RP < 2%

A = ACCEPTABLE.....2% <= RP <= 15%

W = ACCEPTABLE WITH WARNING.....15% <= RP <= 30%

N = NOT ACCEPTABLE.....RP > 30%

Relative Precision (RP) = (Reported Uncertainty / Reported Result) x 100

Notes:

(1) = False Positive

(2) = False Negative

(4) = Sensitivity Evaluation

(6) = Not Evaluated

(11) = False Positive Test, Result Not Reported

(17) = NOT DETECTED - reported a statistically zero result

(18) = Sensitivity Evaluation, Value Not Reported

(25) = Result not reported with other gamma results

(28) = Not Reporting Previously Reported Analyte

(29) = Statistically significant negative value at 3 standard deviations



Laboratory Results For MAPEP-25-MaW53

(TELE01) Teledyne Brown Engineering - Environmental Services

2508 Quality Lane

Knoxville, TN 37931-6819

Inorganic							Units: (mg/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Antimony	NR	0.00017				Sensitivity Evaluation		
Arsenic	NR	0.00181				0.00127 - 0.00235		
Barium	NR	0.0604				0.0423 - 0.0785		
Beryllium	NR	0.443				0.310 - 0.576		
Cadmium	NR	0.308				0.216 - 0.400		
Chromium	NR	0.328				0.230 - 0.426		
Cobalt	NR	0.300				0.210 - 0.390		
Copper	NR	0.428				0.300 - 0.556		
Lead	NR	0.155				0.109 - 0.202		
Mercury	NR	0.0718				0.0503 - 0.0933		
Nickel	NR	0.371				0.260 - 0.482		
Selenium	NR	0.394				0.276 - 0.512		
Technetium-99	NR					False Positive Test		
Thallium	NR	0.245				0.172 - 0.319		
Uranium-235	NR	2.35E-4				1.65E-4 - 3.06E-4		
Uranium-238	NR	0.0325				0.0228 - 0.0423		
Uranium-Total	NR	0.0327				0.0229 - 0.0425		
Vanadium	NR	0.400				0.280 - 0.520		
Zinc	NR	0.564				0.395 - 0.733		

Radiological							Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	NR	0.361				0.253 - 0.469		
Cerium-139	NR	26.4				18.5 - 34.3		
Cesium-134	NR	7.34				5.14 - 9.54		
Cesium-137	NR	6.7				4.7 - 8.7		
Cobalt-57	NR					False Positive Test		
Cobalt-60	NR	7.24				5.07 - 9.41		
Hydrogen-3	NR	276				193 - 359		
Iron-55	NR	33.0				23.1 - 42.9		
Manganese-54	NR	7.95				5.57 - 10.34		
Nickel-63	23.0	25.0	A		-8.0	17.5 - 32.5	3.16	A
Plutonium-238	NR	0.0019				Sensitivity Evaluation		
Plutonium-239/240	NR	0.0037				Sensitivity Evaluation		
Potassium-40	NR					False Positive Test		

Radiological						Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Radium-226	NR	0.407				0.285 - 0.529	
Strontium-90	NR	3.02				2.11 - 3.93	
Technetium-99	0.170		A			False Positive Test	0.376
Uranium-234	NR	0.426				0.298 - 0.554	
Uranium-238	NR	0.404				0.283 - 0.525	
Zinc-65	NR	23.1				16.2 - 30.0	

Radiological Reference Date: August 1, 2025

Results Flags:

A = Result acceptable.....|Bias| ≤ 20%

W = Result acceptable with warning.....20% < |Bias| ≤ 30%

N = Result not acceptable.....|Bias| > 30%

RW = Report Warning

NR = Not Reported

Uncertainty Flags:

N = NOT ACCEPTABLE.....RP < 2%

A = ACCEPTABLE.....2% ≤ RP ≤ 15%

W = ACCEPTABLE WITH WARNING.....15% ≤ RP ≤ 30%

N = NOT ACCEPTABLE.....RP > 30%

Relative Precision (RP) = (Reported Uncertainty / Reported Result) x 100

Notes:

(1) = False Positive

(2) = False Negative

(4) = Sensitivity Evaluation

(6) = Not Evaluated

(11) = False Positive Test, Result Not Reported

(17) = NOT DETECTED - reported a statistically zero result

(18) = Sensitivity Evaluation, Value Not Reported

(25) = Result not reported with other gamma results

(28) = Not Reporting Previously Reported Analyte

(29) = Statistically significant negative value at 3 standard deviations



Laboratory Results For MAPEP-25-MaW53
(TELE02) Microbac Laboratories Inc. - Northbrook
700 Landwehr Road
Northbrook, IL 60062-

Inorganic							Units: (mg/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Antimony	NR	0.00017				Sensitivity Evaluation		
Arsenic	NR	0.00181				0.00127 - 0.00235		
Barium	NR	0.0604				0.0423 - 0.0785		
Beryllium	NR	0.443				0.310 - 0.576		
Cadmium	NR	0.308				0.216 - 0.400		
Chromium	NR	0.328				0.230 - 0.426		
Cobalt	NR	0.300				0.210 - 0.390		
Copper	NR	0.428				0.300 - 0.556		
Lead	NR	0.155				0.109 - 0.202		
Mercury	NR	0.0718				0.0503 - 0.0933		
Nickel	NR	0.371				0.260 - 0.482		
Selenium	NR	0.394				0.276 - 0.512		
Technetium-99	NR					False Positive Test		
Thallium	NR	0.245				0.172 - 0.319		
Uranium-235	NR	2.35E-4				1.65E-4 - 3.06E-4		
Uranium-238	NR	0.0325				0.0228 - 0.0423		
Uranium-Total	NR	0.0327				0.0229 - 0.0425		
Vanadium	NR	0.400				0.280 - 0.520		
Zinc	NR	0.564				0.395 - 0.733		

Radiological							Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	NR	0.361				0.253 - 0.469		
Cerium-139	NR	26.4				18.5 - 34.3		
Cesium-134	5.50	7.34	W		-25.1	5.14 - 9.54	0.16	A
Cesium-137	6.51	6.7	A		-2.8	4.7 - 8.7	0.24	A
Cobalt-57	0.003		A			False Positive Test	0.066	
Cobalt-60	6.81	7.24	A		-5.9	5.07 - 9.41	0.16	A
Hydrogen-3	240	276	A		-13.0	193 - 359	10	A
Iron-55	NR	33.0				23.1 - 42.9		
Manganese-54	7.39	7.95	A		-7.0	5.57 - 10.34	0.24	A
Nickel-63	14.0	25.0	N		-44.0	17.5 - 32.5	2.0	A
Plutonium-238	NR	0.0019				Sensitivity Evaluation		
Plutonium-239/240	NR	0.0037				Sensitivity Evaluation		
Potassium-40	8.11		N	(1)		False Positive Test	0.93	

Radiological						Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Radium-226	NR	0.407				0.285 - 0.529	
Strontium-90	NR	3.02				2.11 - 3.93	
Technetium-99	NR					False Positive Test	
Uranium-234	NR	0.426				0.298 - 0.554	
Uranium-238	NR	0.404				0.283 - 0.525	
Zinc-65	21.3	23.1	A		-7.8	16.2 - 30.0	0.5 A

Radiological Reference Date: August 1, 2025

Results Flags:

A = Result acceptable.....|Bias| ≤ 20%

W = Result acceptable with warning.....20% < |Bias| ≤ 30%

N = Result not acceptable.....|Bias| > 30%

RW = Report Warning

NR = Not Reported

Uncertainty Flags:

N = NOT ACCEPTABLE.....RP < 2%

A = ACCEPTABLE.....2% ≤ RP ≤ 15%

W = ACCEPTABLE WITH WARNING.....15% ≤ RP ≤ 30%

N = NOT ACCEPTABLE.....RP > 30%

Relative Precision (RP) = (Reported Uncertainty / Reported Result) x 100

Notes:

- (1) = False Positive
- (2) = False Negative
- (4) = Sensitivity Evaluation
- (6) = Not Evaluated
- (11) = False Positive Test, Result Not Reported
- (17) = NOT DETECTED - reported a statistically zero result
- (18) = Sensitivity Evaluation, Value Not Reported
- (25) = Result not reported with other gamma results
- (28) = Not Reporting Previously Reported Analyte
- (29) = Statistically significant negative value at 3 standard deviations



Laboratory Results For MAPEP-25-MaW53
(TMAO01) EBERLINE Analytical Corporation
601 A SCARBORO RD
OAK RIDGE, TN 37830-

Inorganic							Units: (mg/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Antimony	NR	0.00017				Sensitivity Evaluation		
Arsenic	NR	0.00181				0.00127 - 0.00235		
Barium	NR	0.0604				0.0423 - 0.0785		
Beryllium	NR	0.443				0.310 - 0.576		
Cadmium	NR	0.308				0.216 - 0.400		
Chromium	NR	0.328				0.230 - 0.426		
Cobalt	NR	0.300				0.210 - 0.390		
Copper	NR	0.428				0.300 - 0.556		
Lead	NR	0.155				0.109 - 0.202		
Mercury	NR	0.0718				0.0503 - 0.0933		
Nickel	NR	0.371				0.260 - 0.482		
Selenium	NR	0.394				0.276 - 0.512		
Technetium-99	NR					False Positive Test		
Thallium	NR	0.245				0.172 - 0.319		
Uranium-235	NR	2.35E-4				1.65E-4 - 3.06E-4		
Uranium-238	NR	0.0325				0.0228 - 0.0423		
Uranium-Total	NR	0.0327				0.0229 - 0.0425		
Vanadium	NR	0.400				0.280 - 0.520		
Zinc	NR	0.564				0.395 - 0.733		

Radiological							Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	0.380	0.361	A		5.3	0.253 - 0.469	0.114	W
Cerium-139	NR	26.4				18.5 - 34.3		
Cesium-134	6.808	7.34	A		-7.2	5.14 - 9.54	1.182	W
Cesium-137	6.911	6.7	A		3.1	4.7 - 8.7	1.356	W
Cobalt-57	-0.020		A			False Positive Test	0.351	
Cobalt-60	7.817	7.24	A		8.0	5.07 - 9.41	0.989	A
Hydrogen-3	276.628	276	A		0.2	193 - 359	16.837	A
Iron-55	NR	33.0				23.1 - 42.9		
Manganese-54	8.742	7.95	A		10.0	5.57 - 10.34	1.829	W
Nickel-63	14.034	25.0	N		-43.9	17.5 - 32.5	0.852	A
Plutonium-238	-0.00511	0.0019	A	(17)		Sensitivity Evaluation	0.0200	
Plutonium-239/240	0.0102	0.0037	A	(17)		Sensitivity Evaluation	0.0276	
Potassium-40	0.824		A			False Positive Test	5.546	

Radiological						Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Radium-226	0.422	0.407	A		3.7	0.285 - 0.529	0.133 N
Strontium-90	6.123	3.02	N		102.7	2.11 - 3.93	0.570 A
Technetium-99	0.114		A			False Positive Test	0.274
Uranium-234	0.453	0.426	A		6.3	0.298 - 0.554	0.112 W
Uranium-238	0.426	0.404	A		5.4	0.283 - 0.525	0.107 W
Zinc-65	24.250	23.1	A		5.0	16.2 - 30.0	4.179 W

Radiological Reference Date: August 1, 2025

Results Flags:

A = Result acceptable.....|Bias| <= 20%

W = Result acceptable with warning.....20% < |Bias| <= 30%

N = Result not acceptable.....|Bias| > 30%

RW = Report Warning

NR = Not Reported

Uncertainty Flags:

N = NOT ACCEPTABLE.....RP < 2%

A = ACCEPTABLE.....2% <= RP <= 15%

W = ACCEPTABLE WITH WARNING.....15% <= RP <= 30%

N = NOT ACCEPTABLE.....RP > 30%

Relative Precision (RP) = (Reported Uncertainty / Reported Result) x 100

Notes:

- (1) = False Positive
- (2) = False Negative
- (4) = Sensitivity Evaluation
- (6) = Not Evaluated
- (11) = False Positive Test, Result Not Reported
- (17) = NOT DETECTED - reported a statistically zero result
- (18) = Sensitivity Evaluation, Value Not Reported
- (25) = Result not reported with other gamma results
- (28) = Not Reporting Previously Reported Analyte
- (29) = Statistically significant negative value at 3 standard deviations



Laboratory Results For MAPEP-25-MaW53
(TNUT01) St. Louis USACE FUSRAP Laboratory
112 James S McDonnell Blvd
HAZELWOOD, MO 63042

Inorganic							Units: (mg/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Antimony	NR	0.00017				Sensitivity Evaluation		
Arsenic	NR	0.00181				0.00127 - 0.00235		
Barium	NR	0.0604				0.0423 - 0.0785		
Beryllium	NR	0.443				0.310 - 0.576		
Cadmium	NR	0.308				0.216 - 0.400		
Chromium	NR	0.328				0.230 - 0.426		
Cobalt	NR	0.300				0.210 - 0.390		
Copper	NR	0.428				0.300 - 0.556		
Lead	NR	0.155				0.109 - 0.202		
Mercury	NR	0.0718				0.0503 - 0.0933		
Nickel	NR	0.371				0.260 - 0.482		
Selenium	NR	0.394				0.276 - 0.512		
Technetium-99	NR					False Positive Test		
Thallium	NR	0.245				0.172 - 0.319		
Uranium-235	NR	2.35E-4				1.65E-4 - 3.06E-4		
Uranium-238	NR	0.0325				0.0228 - 0.0423		
Uranium-Total	NR	0.0327				0.0229 - 0.0425		
Vanadium	NR	0.400				0.280 - 0.520		
Zinc	NR	0.564				0.395 - 0.733		

Radiological							Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	0.375	0.361	A		3.9	0.253 - 0.469	0.0985	W
Cerium-139	26.2	26.4	A		-0.8	18.5 - 34.3	0.657	A
Cesium-134	5.96	7.34	A		-18.8	5.14 - 9.54	0.173	A
Cesium-137	6.81	6.7	A		1.6	4.7 - 8.7	0.209	A
Cobalt-57	-0.364		A			False Positive Test	0.335	
Cobalt-60	7.12	7.24	A		-1.7	5.07 - 9.41	0.156	A
Hydrogen-3	NR	276				193 - 359		
Iron-55	NR	33.0				23.1 - 42.9		
Manganese-54	8.16	7.95	A		2.6	5.57 - 10.34	0.232	A
Nickel-63	NR	25.0				17.5 - 32.5		
Plutonium-238	NR	0.0019				Sensitivity Evaluation		
Plutonium-239/240	NR	0.0037				Sensitivity Evaluation		
Potassium-40	5.12		N	(1)		False Positive Test	0.516	

Radiological						Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Radium-226	0.466	0.407	A		14.5	0.285 - 0.529	0.0714 W
Strontium-90	NR	3.02				2.11 - 3.93	
Technetium-99	NR					False Positive Test	
Uranium-234	0.369	0.426	A		-13.4	0.298 - 0.554	0.0723 W
Uranium-238	0.375	0.404	A		-7.2	0.283 - 0.525	0.0729 W
Zinc-65	25.6	23.1	A		10.8	16.2 - 30.0	1.02 A

Radiological Reference Date: August 1, 2025

Results Flags:

A = Result acceptable.....|Bias| ≤ 20%

W = Result acceptable with warning.....20% < |Bias| ≤ 30%

N = Result not acceptable.....|Bias| > 30%

RW = Report Warning

NR = Not Reported

Uncertainty Flags:

N = NOT ACCEPTABLE.....RP < 2%

A = ACCEPTABLE.....2% ≤ RP ≤ 15%

W = ACCEPTABLE WITH WARNING.....15% ≤ RP ≤ 30%

N = NOT ACCEPTABLE.....RP > 30%

Relative Precision (RP) = (Reported Uncertainty / Reported Result) x 100

Notes:

- (1) = False Positive
- (2) = False Negative
- (4) = Sensitivity Evaluation
- (6) = Not Evaluated
- (11) = False Positive Test, Result Not Reported
- (17) = NOT DETECTED - reported a statistically zero result
- (18) = Sensitivity Evaluation, Value Not Reported
- (25) = Result not reported with other gamma results
- (28) = Not Reporting Previously Reported Analyte
- (29) = Statistically significant negative value at 3 standard deviations



Laboratory Results For MAPEP-25-MaW53

(UNTE01) UniTech-235

178 Aldo Drive

Barnwell, SC 29812

Inorganic							Units: (mg/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Antimony	NR	0.00017				Sensitivity Evaluation		
Arsenic	NR	0.00181				0.00127 - 0.00235		
Barium	NR	0.0604				0.0423 - 0.0785		
Beryllium	NR	0.443				0.310 - 0.576		
Cadmium	NR	0.308				0.216 - 0.400		
Chromium	NR	0.328				0.230 - 0.426		
Cobalt	NR	0.300				0.210 - 0.390		
Copper	NR	0.428				0.300 - 0.556		
Lead	NR	0.155				0.109 - 0.202		
Mercury	NR	0.0718				0.0503 - 0.0933		
Nickel	NR	0.371				0.260 - 0.482		
Selenium	NR	0.394				0.276 - 0.512		
Technetium-99	NR					False Positive Test		
Thallium	NR	0.245				0.172 - 0.319		
Uranium-235	NR	2.35E-4				1.65E-4 - 3.06E-4		
Uranium-238	NR	0.0325				0.0228 - 0.0423		
Uranium-Total	NR	0.0327				0.0229 - 0.0425		
Vanadium	NR	0.400				0.280 - 0.520		
Zinc	NR	0.564				0.395 - 0.733		

Radiological							Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	NR	0.361				0.253 - 0.469		
Cerium-139	21.96	26.4	A		-16.8	18.5 - 34.3	1.64	A
Cesium-134	5.96	7.34	A		-18.8	5.14 - 9.54	0.73	A
Cesium-137	7.43	6.7	A		10.9	4.7 - 8.7	1.10	A
Cobalt-57	0.2		A			False Positive Test	0.32	
Cobalt-60	7.36	7.24	A		1.7	5.07 - 9.41	0.83	A
Hydrogen-3	NR	276				193 - 359		
Iron-55	NR	33.0				23.1 - 42.9		
Manganese-54	9.01	7.95	A		13.3	5.57 - 10.34	1.07	A
Nickel-63	NR	25.0				17.5 - 32.5		
Plutonium-238	NR	0.0019				Sensitivity Evaluation		
Plutonium-239/240	NR	0.0037				Sensitivity Evaluation		
Potassium-40	0.3		N	(1)		False Positive Test	0.03	

Radiological						Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Radium-226	NR	0.407				0.285 - 0.529	
Strontium-90	NR	3.02				2.11 - 3.93	
Technetium-99	NR					False Positive Test	
Uranium-234	NR	0.426				0.298 - 0.554	
Uranium-238	NR	0.404				0.283 - 0.525	
Zinc-65	18.57	23.1	A		-19.6	16.2 - 30.0	2.20 A

Radiological Reference Date: August 1, 2025

Results Flags:

A = Result acceptable.....|Bias| ≤ 20%

W = Result acceptable with warning.....20% < |Bias| ≤ 30%

N = Result not acceptable.....|Bias| > 30%

RW = Report Warning

NR = Not Reported

Uncertainty Flags:

N = NOT ACCEPTABLE.....RP < 2%

A = ACCEPTABLE.....2% ≤ RP ≤ 15%

W = ACCEPTABLE WITH WARNING.....15% ≤ RP ≤ 30%

N = NOT ACCEPTABLE.....RP > 30%

Relative Precision (RP) = (Reported Uncertainty / Reported Result) x 100

Notes:

(1) = False Positive

(2) = False Negative

(4) = Sensitivity Evaluation

(6) = Not Evaluated

(11) = False Positive Test, Result Not Reported

(17) = NOT DETECTED - reported a statistically zero result

(18) = Sensitivity Evaluation, Value Not Reported

(25) = Result not reported with other gamma results

(28) = Not Reporting Previously Reported Analyte

(29) = Statistically significant negative value at 3 standard deviations



Laboratory Results For MAPEP-25-MaW53
(WEST04) PACE ANALYTICAL SERVICES, GREENSBURG
1638 Roseytown Road
Greensburg, PA 15601

Inorganic							Units: (mg/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Antimony	NR	0.00017				Sensitivity Evaluation		
Arsenic	NR	0.00181				0.00127 - 0.00235		
Barium	NR	0.0604				0.0423 - 0.0785		
Beryllium	NR	0.443				0.310 - 0.576		
Cadmium	NR	0.308				0.216 - 0.400		
Chromium	NR	0.328				0.230 - 0.426		
Cobalt	NR	0.300				0.210 - 0.390		
Copper	NR	0.428				0.300 - 0.556		
Lead	NR	0.155				0.109 - 0.202		
Mercury	NR	0.0718				0.0503 - 0.0933		
Nickel	NR	0.371				0.260 - 0.482		
Selenium	NR	0.394				0.276 - 0.512		
Technetium-99	NR					False Positive Test		
Thallium	NR	0.245				0.172 - 0.319		
Uranium-235	NR	2.35E-4				1.65E-4 - 3.06E-4		
Uranium-238	NR	0.0325				0.0228 - 0.0423		
Uranium-Total	NR	0.0327				0.0229 - 0.0425		
Vanadium	NR	0.400				0.280 - 0.520		
Zinc	NR	0.564				0.395 - 0.733		

Radiological							Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	NR	0.361				0.253 - 0.469		
Cerium-139	NR	26.4				18.5 - 34.3		
Cesium-134	NR	7.34				5.14 - 9.54		
Cesium-137	NR	6.7				4.7 - 8.7		
Cobalt-57	NR					False Positive Test		
Cobalt-60	NR	7.24				5.07 - 9.41		
Hydrogen-3	NR	276				193 - 359		
Iron-55	NR	33.0				23.1 - 42.9		
Manganese-54	NR	7.95				5.57 - 10.34		
Nickel-63	NR	25.0				17.5 - 32.5		
Plutonium-238	NR	0.0019				Sensitivity Evaluation		
Plutonium-239/240	NR	0.0037				Sensitivity Evaluation		
Potassium-40	NR					False Positive Test		

Radiological						Units: (Bq/L)		
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Radium-226	0.2834	0.407	N		-30.4	0.285 - 0.529	0.0570	W
Strontium-90	2.5123	3.02	A		-16.8	2.11 - 3.93	0.4218	W
Technetium-99	NR					False Positive Test		
Uranium-234	NR	0.426				0.298 - 0.554		
Uranium-238	NR	0.404				0.283 - 0.525		
Zinc-65	NR	23.1				16.2 - 30.0		

Radiological Reference Date: August 1, 2025

Results Flags:

A = Result acceptable.....|Bias| <= 20%

W = Result acceptable with warning.....20% < |Bias| <= 30%

N = Result not acceptable.....|Bias| > 30%

RW = Report Warning

NR = Not Reported

Uncertainty Flags:

N = NOT ACCEPTABLE.....RP < 2%

A = ACCEPTABLE.....2% <= RP <= 15%

W = ACCEPTABLE WITH WARNING.....15% <= RP <= 30%

N = NOT ACCEPTABLE.....RP > 30%

Relative Precision (RP) = (Reported Uncertainty / Reported Result) x 100

Notes:

(1) = False Positive

(2) = False Negative

(4) = Sensitivity Evaluation

(6) = Not Evaluated

(11) = False Positive Test, Result Not Reported

(17) = NOT DETECTED - reported a statistically zero result

(18) = Sensitivity Evaluation, Value Not Reported

(25) = Result not reported with other gamma results

(28) = Not Reporting Previously Reported Analyte

(29) = Statistically significant negative value at 3 standard deviations



Laboratory Results For MAPEP-25-MaW53
(WIPH01) WI, DPH, Radiation Protection Section
201 E Washington Ave
Madison, WI 53703

Inorganic							Units: (mg/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Antimony	NR	0.00017				Sensitivity Evaluation		
Arsenic	NR	0.00181				0.00127 - 0.00235		
Barium	NR	0.0604				0.0423 - 0.0785		
Beryllium	NR	0.443				0.310 - 0.576		
Cadmium	NR	0.308				0.216 - 0.400		
Chromium	NR	0.328				0.230 - 0.426		
Cobalt	NR	0.300				0.210 - 0.390		
Copper	NR	0.428				0.300 - 0.556		
Lead	NR	0.155				0.109 - 0.202		
Mercury	NR	0.0718				0.0503 - 0.0933		
Nickel	NR	0.371				0.260 - 0.482		
Selenium	NR	0.394				0.276 - 0.512		
Technetium-99	NR					False Positive Test		
Thallium	NR	0.245				0.172 - 0.319		
Uranium-235	NR	2.35E-4				1.65E-4 - 3.06E-4		
Uranium-238	NR	0.0325				0.0228 - 0.0423		
Uranium-Total	NR	0.0327				0.0229 - 0.0425		
Vanadium	NR	0.400				0.280 - 0.520		
Zinc	NR	0.564				0.395 - 0.733		

Radiological							Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	0.49	0.361	N		35.7	0.253 - 0.469	0.46	N
Cerium-139	NR	26.4				18.5 - 34.3		
Cesium-134	6.89	7.34	A		-6.1	5.14 - 9.54	0.25	A
Cesium-137	6.65	6.7	A		-0.7	4.7 - 8.7	0.44	A
Cobalt-57	22.53		A			False Positive Test	72.95	
Cobalt-60	7.15	7.24	A		-1.2	5.07 - 9.41	0.24	A
Hydrogen-3	NR	276				193 - 359		
Iron-55	NR	33.0				23.1 - 42.9		
Manganese-54	7.49	7.95	A		-5.8	5.57 - 10.34	0.44	A
Nickel-63	NR	25.0				17.5 - 32.5		
Plutonium-238	NR	0.0019				Sensitivity Evaluation		
Plutonium-239/240	NR	0.0037				Sensitivity Evaluation		
Potassium-40	2.42		N	(1)		False Positive Test	0.75	

Radiological						Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Radium-226	NR	0.407				0.285 - 0.529	
Strontium-90	NR	3.02				2.11 - 3.93	
Technetium-99	NR					False Positive Test	
Uranium-234	NR	0.426				0.298 - 0.554	
Uranium-238	NR	0.404				0.283 - 0.525	
Zinc-65	22.28	23.1	A		-3.6	16.2 - 30.0	1.05 A

Radiological Reference Date: August 1, 2025

Results Flags:

A = Result acceptable.....|Bias| ≤ 20%

W = Result acceptable with warning.....20% < |Bias| ≤ 30%

N = Result not acceptable.....|Bias| > 30%

RW = Report Warning

NR = Not Reported

Uncertainty Flags:

N = NOT ACCEPTABLE.....RP < 2%

A = ACCEPTABLE.....2% ≤ RP ≤ 15%

W = ACCEPTABLE WITH WARNING.....15% ≤ RP ≤ 30%

N = NOT ACCEPTABLE.....RP > 30%

Relative Precision (RP) = (Reported Uncertainty / Reported Result) x 100

Notes:

(1) = False Positive

(2) = False Negative

(4) = Sensitivity Evaluation

(6) = Not Evaluated

(11) = False Positive Test, Result Not Reported

(17) = NOT DETECTED - reported a statistically zero result

(18) = Sensitivity Evaluation, Value Not Reported

(25) = Result not reported with other gamma results

(28) = Not Reporting Previously Reported Analyte

(29) = Statistically significant negative value at 3 standard deviations



Laboratory Results For MAPEP-25-MaW53
(WSHL01) Wisconsin State Laboratory of Hygiene
2601 Agriculture Drive
Madison, WI 53718

Inorganic							Units: (mg/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Antimony	NR	0.00017				Sensitivity Evaluation		
Arsenic	NR	0.00181				0.00127 - 0.00235		
Barium	NR	0.0604				0.0423 - 0.0785		
Beryllium	NR	0.443				0.310 - 0.576		
Cadmium	NR	0.308				0.216 - 0.400		
Chromium	NR	0.328				0.230 - 0.426		
Cobalt	NR	0.300				0.210 - 0.390		
Copper	NR	0.428				0.300 - 0.556		
Lead	NR	0.155				0.109 - 0.202		
Mercury	NR	0.0718				0.0503 - 0.0933		
Nickel	NR	0.371				0.260 - 0.482		
Selenium	NR	0.394				0.276 - 0.512		
Technetium-99	NR					False Positive Test		
Thallium	NR	0.245				0.172 - 0.319		
Uranium-235	NR	2.35E-4				1.65E-4 - 3.06E-4		
Uranium-238	NR	0.0325				0.0228 - 0.0423		
Uranium-Total	NR	0.0327				0.0229 - 0.0425		
Vanadium	NR	0.400				0.280 - 0.520		
Zinc	NR	0.564				0.395 - 0.733		

Radiological							Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	0.3219	0.361	A		-10.8	0.253 - 0.469	0.0207	A
Cerium-139	25.9	26.4	A		-1.9	18.5 - 34.3	1.21	A
Cesium-134	6.96	7.34	A		-5.2	5.14 - 9.54	0.402	A
Cesium-137	6.81	6.7	A		1.6	4.7 - 8.7	0.236	A
Cobalt-57	0.115		A			False Positive Test	0.0985	
Cobalt-60	7.26	7.24	A		0.3	5.07 - 9.41	0.503	A
Hydrogen-3	287.76	276	A		4.3	193 - 359	4.40	N
Iron-55	NR	33.0				23.1 - 42.9		
Manganese-54	8.10	7.95	A		1.9	5.57 - 10.34	0.969	A
Nickel-63	NR	25.0				17.5 - 32.5		
Plutonium-238	0.002939	0.0019	A	(17)		Sensitivity Evaluation	0.002803	
Plutonium-239/240	0.005460	0.0037	A	(17)		Sensitivity Evaluation	0.002002	
Potassium-40	-1.76		A			False Positive Test	0.862	

Radiological						Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Radium-226	NR	0.407				0.285 - 0.529	
Strontium-90	2.67	3.02	A		-11.6	2.11 - 3.93	0.044 N
Technetium-99	NR					False Positive Test	
Uranium-234	0.4060	0.426	A		-4.7	0.298 - 0.554	0.0241 A
Uranium-238	0.4042	0.404	A		0.1	0.283 - 0.525	0.0240 A
Zinc-65	23.7	23.1	A		2.6	16.2 - 30.0	2.19 A

Radiological Reference Date: August 1, 2025

Results Flags:

A = Result acceptable.....|Bias| ≤ 20%

W = Result acceptable with warning.....20% < |Bias| ≤ 30%

N = Result not acceptable.....|Bias| > 30%

RW = Report Warning

NR = Not Reported

Uncertainty Flags:

N = NOT ACCEPTABLE.....RP < 2%

A = ACCEPTABLE.....2% ≤ RP ≤ 15%

W = ACCEPTABLE WITH WARNING.....15% ≤ RP ≤ 30%

N = NOT ACCEPTABLE.....RP > 30%

Relative Precision (RP) = (Reported Uncertainty / Reported Result) x 100

Notes:

- (1) = False Positive
- (2) = False Negative
- (4) = Sensitivity Evaluation
- (6) = Not Evaluated
- (11) = False Positive Test, Result Not Reported
- (17) = NOT DETECTED - reported a statistically zero result
- (18) = Sensitivity Evaluation, Value Not Reported
- (25) = Result not reported with other gamma results
- (28) = Not Reporting Previously Reported Analyte
- (29) = Statistically significant negative value at 3 standard deviations



Laboratory Results For MAPEP-25-MaW53

(WSTP99) Cavendish Nuclear Limited

Greson Court

Cumbria, UK CA24 3HZ

Inorganic						Units: (mg/L)		
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Antimony	NR	0.00017				Sensitivity Evaluation		
Arsenic	NR	0.00181				0.00127 - 0.00235		
Barium	NR	0.0604				0.0423 - 0.0785		
Beryllium	NR	0.443				0.310 - 0.576		
Cadmium	NR	0.308				0.216 - 0.400		
Chromium	NR	0.328				0.230 - 0.426		
Cobalt	NR	0.300				0.210 - 0.390		
Copper	NR	0.428				0.300 - 0.556		
Lead	NR	0.155				0.109 - 0.202		
Mercury	NR	0.0718				0.0503 - 0.0933		
Nickel	NR	0.371				0.260 - 0.482		
Selenium	NR	0.394				0.276 - 0.512		
Technetium-99	NR					False Positive Test		
Thallium	NR	0.245				0.172 - 0.319		
Uranium-235	0.0001694	2.35E-4	W		-27.9	1.65E-4 - 3.06E-4	0.000005	A
Uranium-238	0.02449	0.0325	W		-24.6	0.0228 - 0.0423	0.00065	A
Uranium-Total	0.0336	0.0327	A		2.8	0.0229 - 0.0425	0.0011	A
Vanadium	NR	0.400				0.280 - 0.520		
Zinc	NR	0.564				0.395 - 0.733		

Radiological						Units: (Bq/L)		
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	0.365	0.361	A		1.1	0.253 - 0.469	0.038	A
Cerium-139	25.47	26.4	A		-3.5	18.5 - 34.3	0.51	A
Cesium-134	7.35	7.34	A		0.1	5.14 - 9.54	0.40	A
Cesium-137	6.77	6.7	A		1.0	4.7 - 8.7	0.43	A
Cobalt-57	0.07		A			False Positive Test	0.21	
Cobalt-60	6.98	7.24	A		-3.6	5.07 - 9.41	0.29	A
Hydrogen-3	240.9	276	A		-12.7	193 - 359	8.2	A
Iron-55	NR	33.0				23.1 - 42.9		
Manganese-54	7.20	7.95	A		-9.4	5.57 - 10.34	0.33	A
Nickel-63	NR	25.0				17.5 - 32.5		
Plutonium-238	0.0001	0.0019	A	(17)		Sensitivity Evaluation	0.0024	
Plutonium-239/240	0.0035	0.0037	A	(17)		Sensitivity Evaluation	0.0029	
Potassium-40	1.9		A			False Positive Test	3.1	

Radiological						Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Radium-226	NR	0.407				0.285 - 0.529	
Strontium-90	2.75	3.02	A		-8.9	2.11 - 3.93	0.19 A
Technetium-99	0.012		A			False Positive Test	0.021
Uranium-234	0.161	0.426	N		-62.2	0.298 - 0.554	0.023 A
Uranium-238	0.305	0.404	W		-24.5	0.283 - 0.525	0.011 A
Zinc-65	21.28	23.1	A		-7.9	16.2 - 30.0	0.70 A

Radiological Reference Date: August 1, 2025

Results Flags:

A = Result acceptable.....|Bias| <= 20%

W = Result acceptable with warning.....20% < |Bias| <= 30%

N = Result not acceptable.....|Bias| > 30%

RW = Report Warning

NR = Not Reported

Uncertainty Flags:

N = NOT ACCEPTABLE.....RP < 2%

A = ACCEPTABLE.....2% <= RP <= 15%

W = ACCEPTABLE WITH WARNING.....15% <= RP <= 30%

N = NOT ACCEPTABLE.....RP > 30%

Relative Precision (RP) = (Reported Uncertainty / Reported Result) x 100

Notes:

(1) = False Positive

(2) = False Negative

(4) = Sensitivity Evaluation

(6) = Not Evaluated

(11) = False Positive Test, Result Not Reported

(17) = NOT DETECTED - reported a statistically zero result

(18) = Sensitivity Evaluation, Value Not Reported

(25) = Result not reported with other gamma results

(28) = Not Reporting Previously Reported Analyte

(29) = Statistically significant negative value at 3 standard deviations



Laboratory Results For MAPEP-25-MaW53
(WVDP01) WVDP Environmental Laboratory
10282 Rock Springs Road
West Valley, NY 14171

Inorganic							Units: (mg/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Antimony	NR	0.00017				Sensitivity Evaluation		
Arsenic	NR	0.00181				0.00127 - 0.00235		
Barium	NR	0.0604				0.0423 - 0.0785		
Beryllium	NR	0.443				0.310 - 0.576		
Cadmium	NR	0.308				0.216 - 0.400		
Chromium	NR	0.328				0.230 - 0.426		
Cobalt	NR	0.300				0.210 - 0.390		
Copper	NR	0.428				0.300 - 0.556		
Lead	NR	0.155				0.109 - 0.202		
Mercury	NR	0.0718				0.0503 - 0.0933		
Nickel	NR	0.371				0.260 - 0.482		
Selenium	NR	0.394				0.276 - 0.512		
Technetium-99	NR					False Positive Test		
Thallium	NR	0.245				0.172 - 0.319		
Uranium-235	NR	2.35E-4				1.65E-4 - 3.06E-4		
Uranium-238	NR	0.0325				0.0228 - 0.0423		
Uranium-Total	NR	0.0327				0.0229 - 0.0425		
Vanadium	NR	0.400				0.280 - 0.520		
Zinc	NR	0.564				0.395 - 0.733		

Radiological							Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	NR	0.361				0.253 - 0.469		
Cerium-139	NR	26.4				18.5 - 34.3		
Cesium-134	6.35	7.34	A		-13.5	5.14 - 9.54	0.164	A
Cesium-137	6.48	6.7	A		-3.3	4.7 - 8.7	0.208	A
Cobalt-57	0.0333		A			False Positive Test	0.0397	
Cobalt-60	6.86	7.24	A		-5.2	5.07 - 9.41	0.196	A
Hydrogen-3	NR	276				193 - 359		
Iron-55	NR	33.0				23.1 - 42.9		
Manganese-54	7.57	7.95	A		-4.8	5.57 - 10.34	0.256	A
Nickel-63	NR	25.0				17.5 - 32.5		
Plutonium-238	NR	0.0019				Sensitivity Evaluation		
Plutonium-239/240	NR	0.0037				Sensitivity Evaluation		
Potassium-40	-0.294		A			False Positive Test	0.991	

Radiological						Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Radium-226	NR	0.407				0.285 - 0.529	
Strontium-90	3.05	3.02	A		1.0	2.11 - 3.93	0.243 A
Technetium-99	NR					False Positive Test	
Uranium-234	NR	0.426				0.298 - 0.554	
Uranium-238	NR	0.404				0.283 - 0.525	
Zinc-65	22.2	23.1	A		-3.9	16.2 - 30.0	0.870 A

Radiological Reference Date: August 1, 2025

Results Flags:

A = Result acceptable.....|Bias| <= 20%

W = Result acceptable with warning.....20% < |Bias| <= 30%

N = Result not acceptable.....|Bias| > 30%

RW = Report Warning

NR = Not Reported

Uncertainty Flags:

N = NOT ACCEPTABLE.....RP < 2%

A = ACCEPTABLE.....2% <= RP <= 15%

W = ACCEPTABLE WITH WARNING.....15% <= RP <= 30%

N = NOT ACCEPTABLE.....RP > 30%

Relative Precision (RP) = (Reported Uncertainty / Reported Result) x 100

Notes:

(1) = False Positive

(2) = False Negative

(4) = Sensitivity Evaluation

(6) = Not Evaluated

(11) = False Positive Test, Result Not Reported

(17) = NOT DETECTED - reported a statistically zero result

(18) = Sensitivity Evaluation, Value Not Reported

(25) = Result not reported with other gamma results

(28) = Not Reporting Previously Reported Analyte

(29) = Statistically significant negative value at 3 standard deviations



Laboratory Results For MAPEP-25-MaW53

(YPGA01) US Army Yuma Proving Ground / Material Analysis Lab

301 C. Street

Yuma, AZ 85365

Inorganic							Units: (mg/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Antimony	NR	0.00017				Sensitivity Evaluation		
Arsenic	NR	0.00181				0.00127 - 0.00235		
Barium	NR	0.0604				0.0423 - 0.0785		
Beryllium	NR	0.443				0.310 - 0.576		
Cadmium	NR	0.308				0.216 - 0.400		
Chromium	NR	0.328				0.230 - 0.426		
Cobalt	NR	0.300				0.210 - 0.390		
Copper	NR	0.428				0.300 - 0.556		
Lead	NR	0.155				0.109 - 0.202		
Mercury	NR	0.0718				0.0503 - 0.0933		
Nickel	NR	0.371				0.260 - 0.482		
Selenium	NR	0.394				0.276 - 0.512		
Technetium-99	NR					False Positive Test		
Thallium	NR	0.245				0.172 - 0.319		
Uranium-235	0.00023	2.35E-4	A		-2.1	1.65E-4 - 3.06E-4	0.00003	A
Uranium-238	0.0316	0.0325	A		-2.8	0.0228 - 0.0423	0.001	A
Uranium-Total	0.0318	0.0327	A		-2.8	0.0229 - 0.0425	0.001	A
Vanadium	NR	0.400				0.280 - 0.520		
Zinc	NR	0.564				0.395 - 0.733		

Radiological							Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	NR	0.361				0.253 - 0.469		
Cerium-139	NR	26.4				18.5 - 34.3		
Cesium-134	NR	7.34				5.14 - 9.54		
Cesium-137	NR	6.7				4.7 - 8.7		
Cobalt-57	NR					False Positive Test		
Cobalt-60	NR	7.24				5.07 - 9.41		
Hydrogen-3	NR	276				193 - 359		
Iron-55	NR	33.0				23.1 - 42.9		
Manganese-54	NR	7.95				5.57 - 10.34		
Nickel-63	NR	25.0				17.5 - 32.5		
Plutonium-238	NR	0.0019				Sensitivity Evaluation		
Plutonium-239/240	NR	0.0037				Sensitivity Evaluation		
Potassium-40	NR					False Positive Test		

Radiological						Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Radium-226	NR	0.407				0.285 - 0.529	
Strontium-90	NR	3.02				2.11 - 3.93	
Technetium-99	NR					False Positive Test	
Uranium-234	NR	0.426				0.298 - 0.554	
Uranium-238	NR	0.404				0.283 - 0.525	
Zinc-65	NR	23.1				16.2 - 30.0	

Radiological Reference Date: August 1, 2025

Results Flags:

A = Result acceptable.....|Bias| <= 20%

W = Result acceptable with warning.....20% < |Bias| <= 30%

N = Result not acceptable.....|Bias| > 30%

RW = Report Warning

NR = Not Reported

Uncertainty Flags:

N = NOT ACCEPTABLE.....RP < 2%

A = ACCEPTABLE.....2% <= RP <= 15%

W = ACCEPTABLE WITH WARNING.....15% <= RP <= 30%

N = NOT ACCEPTABLE.....RP > 30%

Relative Precision (RP) = (Reported Uncertainty / Reported Result) x 100

Notes:

(1) = False Positive

(2) = False Negative

(4) = Sensitivity Evaluation

(6) = Not Evaluated

(11) = False Positive Test, Result Not Reported

(17) = NOT DETECTED - reported a statistically zero result

(18) = Sensitivity Evaluation, Value Not Reported

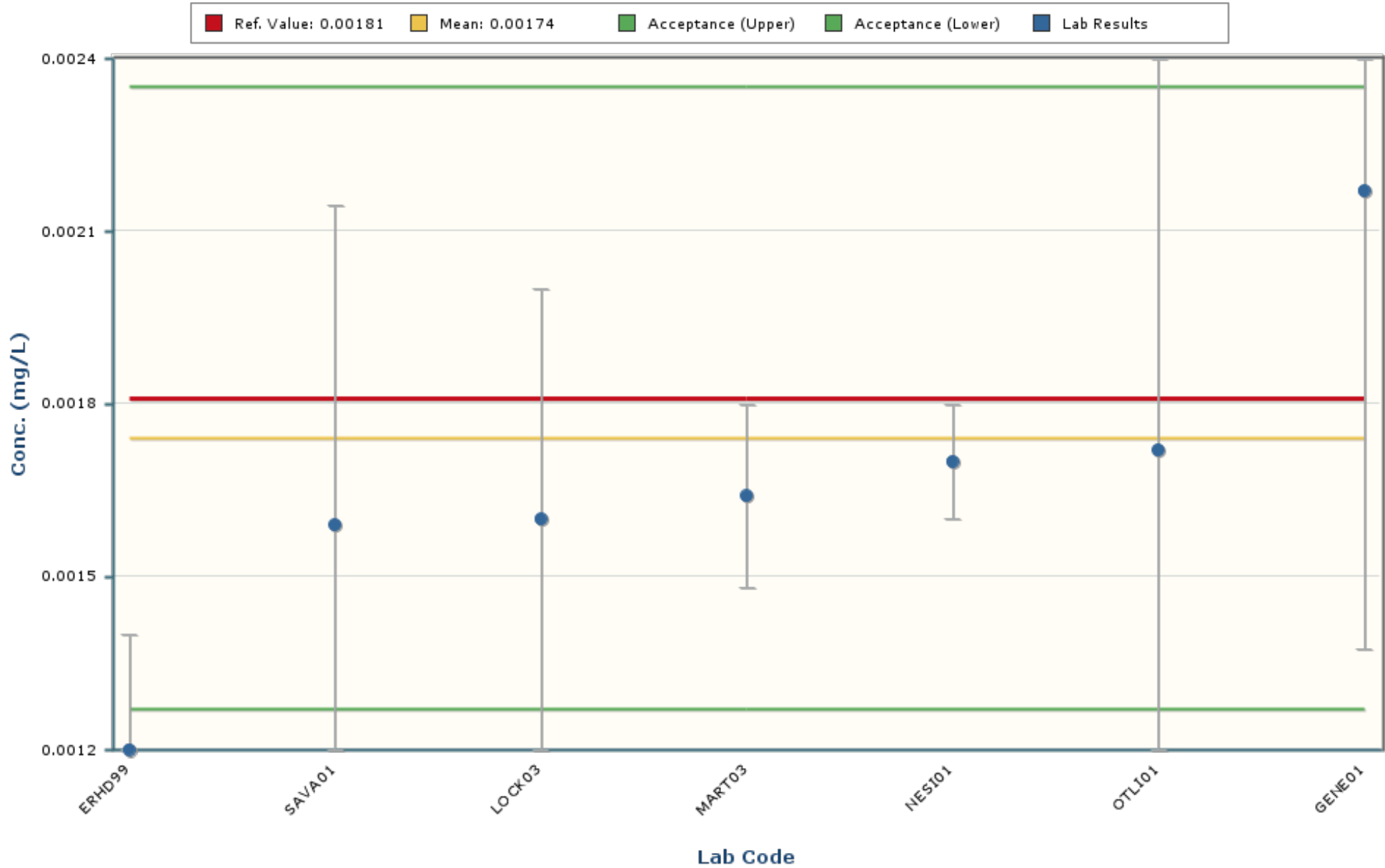
(25) = Result not reported with other gamma results

(28) = Not Reporting Previously Reported Analyte

(29) = Statistically significant negative value at 3 standard deviations

Arsenic

MAPEP-25-MaW53



Notes:

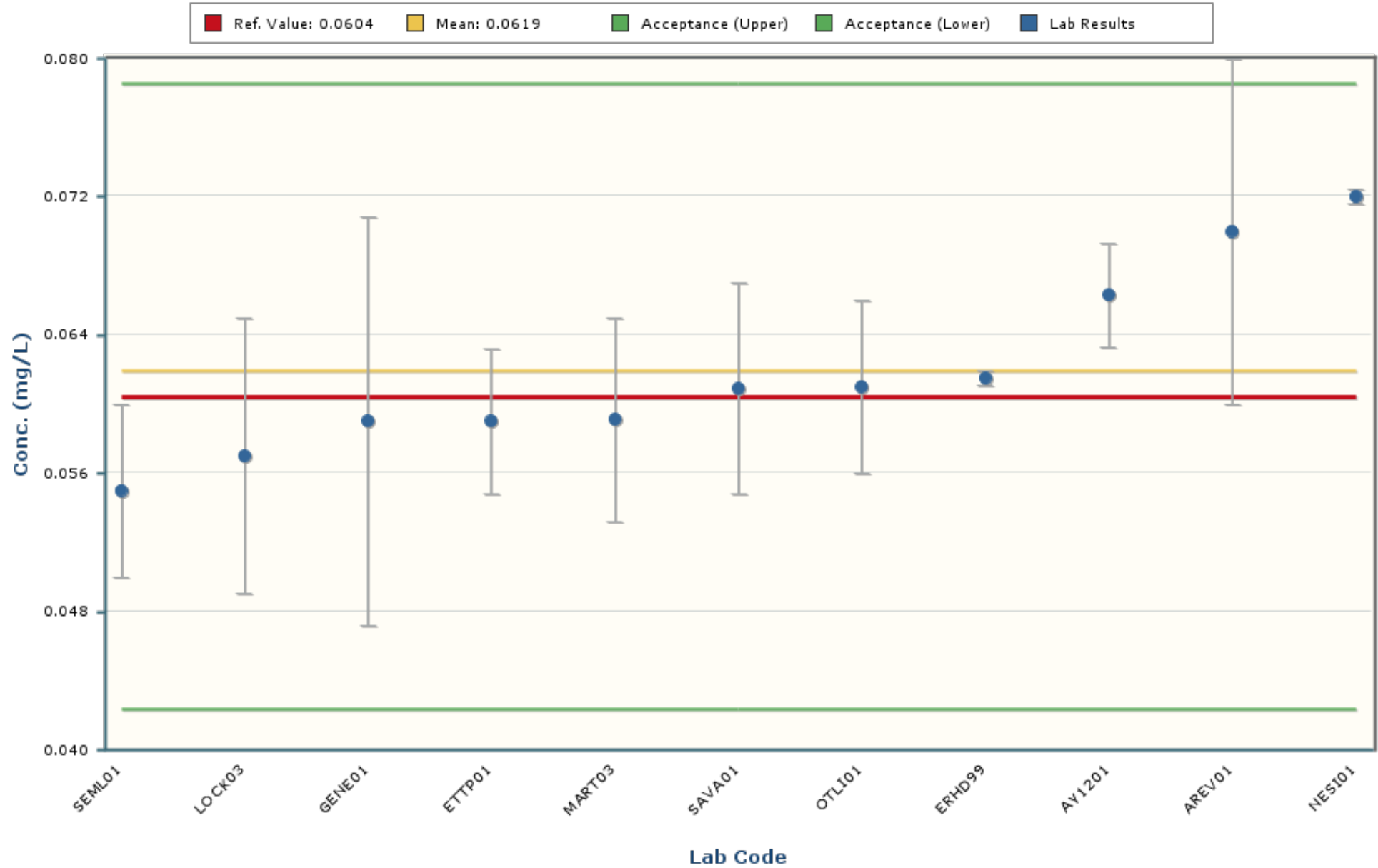
The chart mean excludes values outside of a bias range of $\pm 30\%$.

The chart shows only data points with values between 0.00064 and 0.00283 (± 5 Standard Deviations).

The error bars encompassing each result are plotted at $\pm$ one standard deviation.

Barium

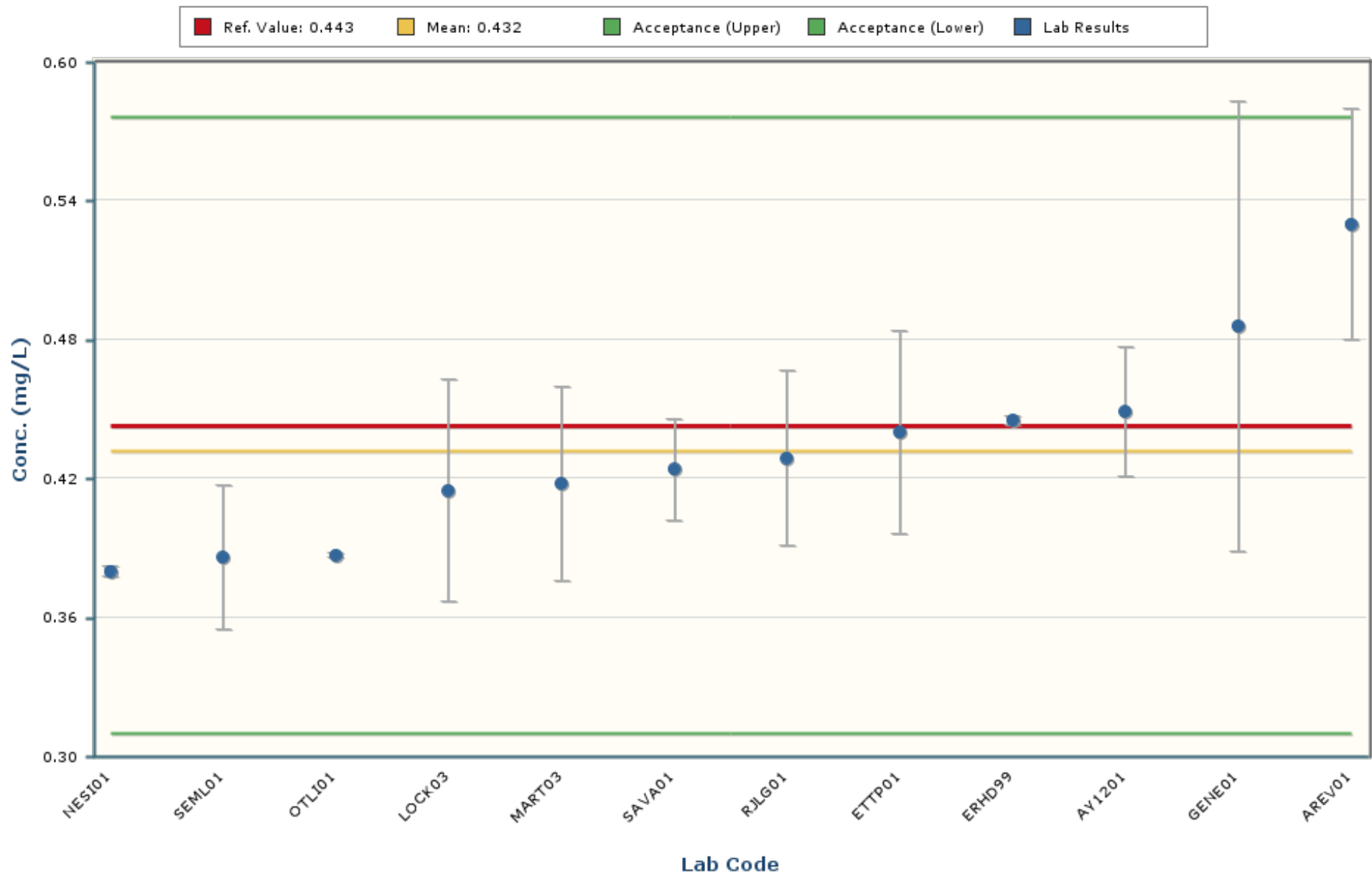
MAPEP-25-MaW53



Notes:
The chart mean excludes values outside of a bias range of $\pm 30\%$.
The chart shows only data points with values between 0.0352 and 0.0886 (± 5 Standard Deviations).
The error bars encompassing each result are plotted at $\pm$ one standard deviation.

Beryllium

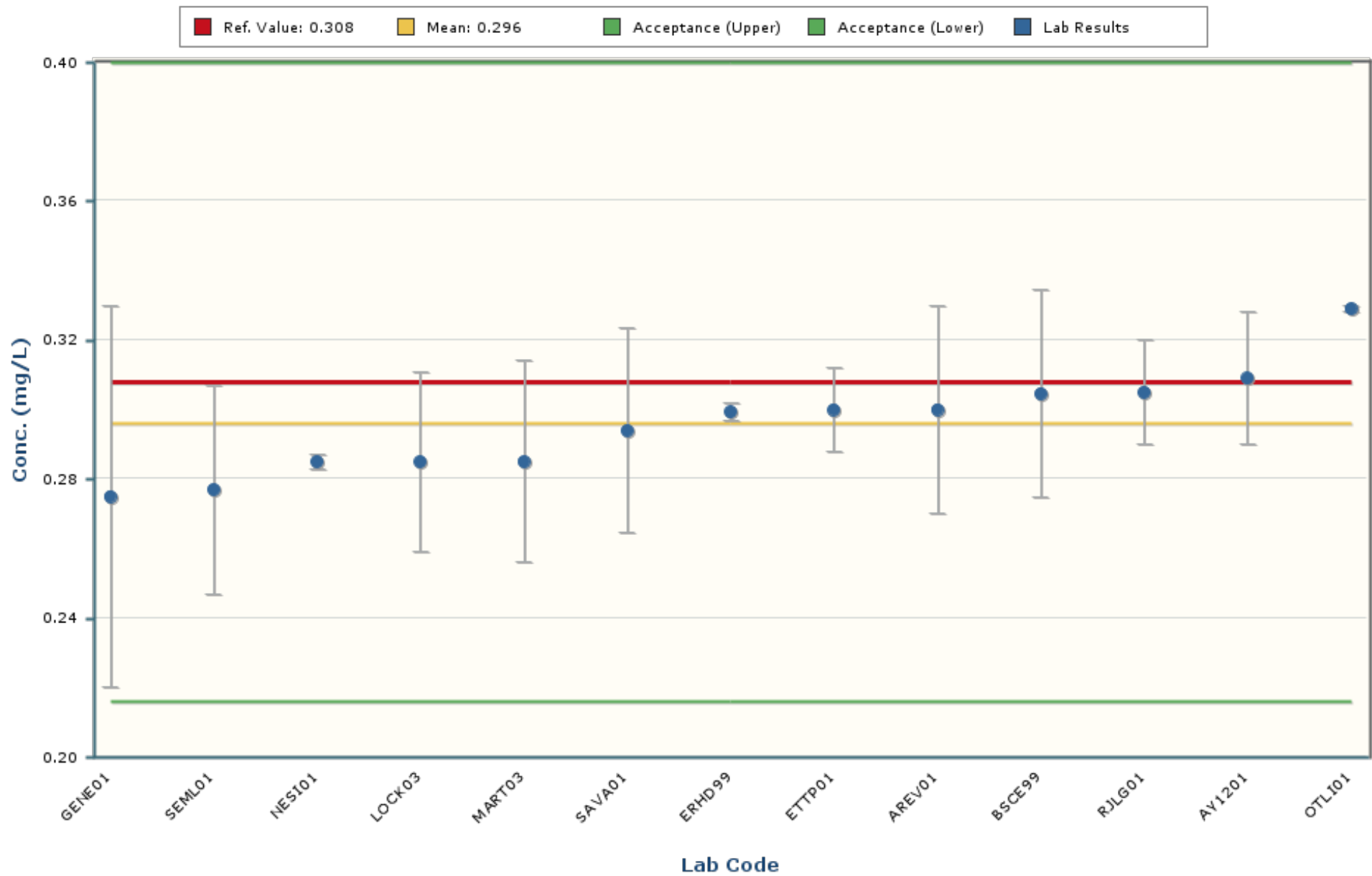
MAPEP-25-MaW53



Notes:
The chart mean excludes values outside of a bias range of $\pm 30\%$.
The chart shows only data points with values between 0.217 and 0.648 (± 5 Standard Deviations).
The error bars encompassing each result are plotted at $\pm$ one standard deviation.

Cadmium

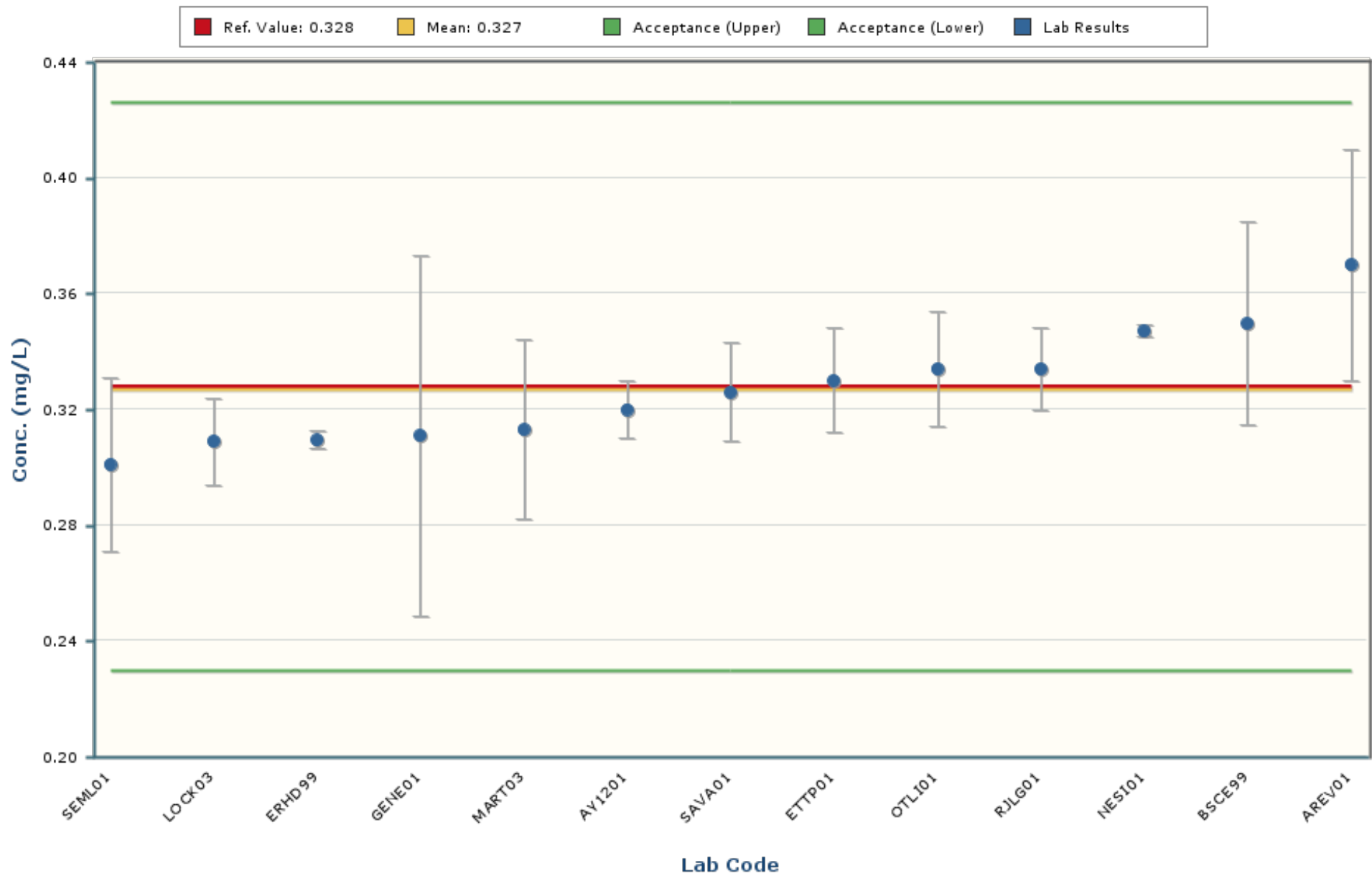
MAPEP-25-MaW53



Notes:
The chart mean excludes values outside of a bias range of $\pm 30\%$.
The chart shows only data points with values between 0.222 and 0.370 (± 5 Standard Deviations).
The error bars encompassing each result are plotted at $\pm$ one standard deviation.

Chromium

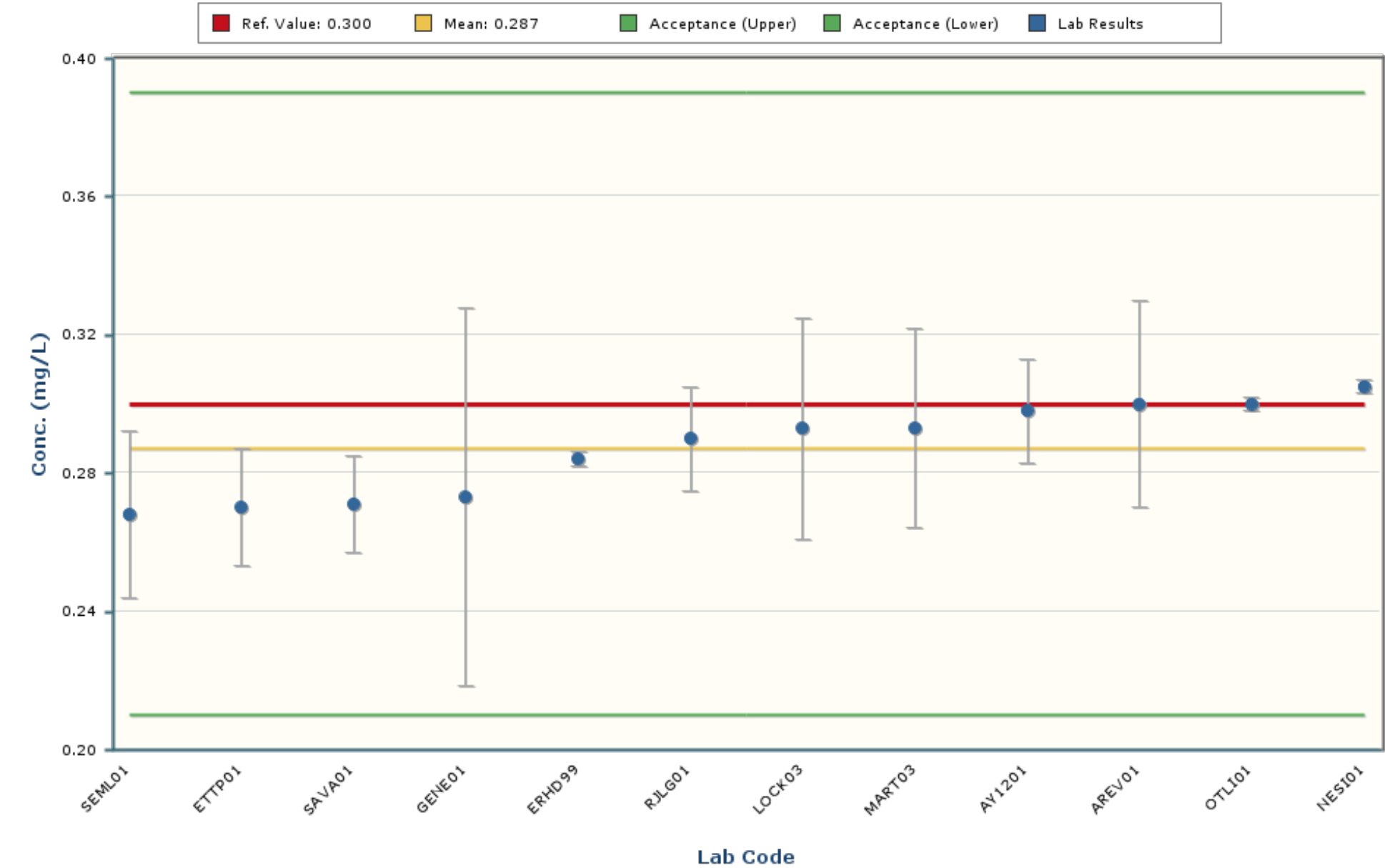
MAPEP-25-MaW53



Notes:
The chart mean excludes values outside of a bias range of $\pm 30\%$.
The chart shows only data points with values between 0.228 and 0.426 (± 5 Standard Deviations).
The error bars encompassing each result are plotted at $\pm$ one standard deviation.

Cobalt

MAPEP-25-MaW53



Notes:

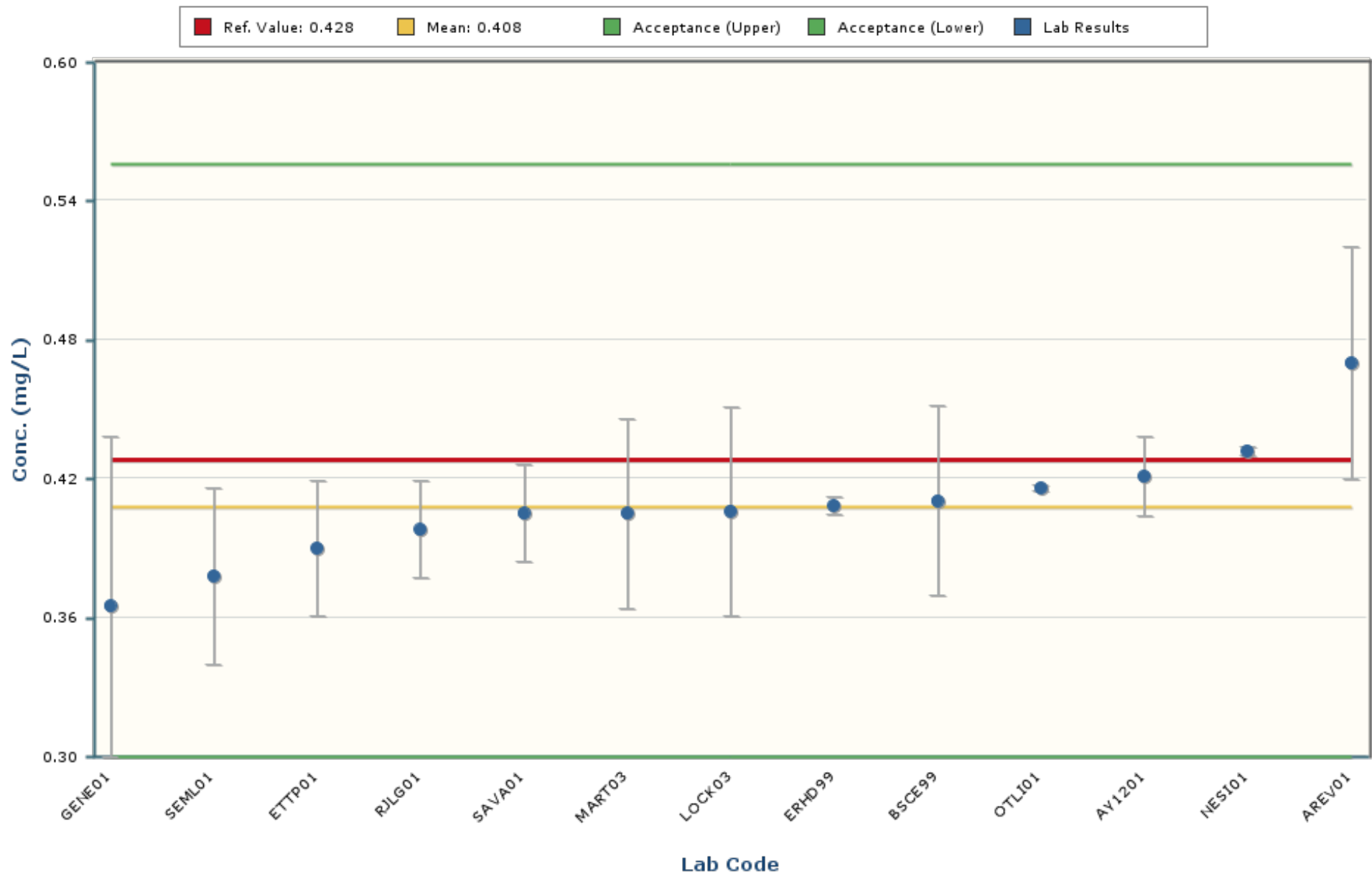
The chart mean excludes values outside of a bias range of $\pm 30\%$.

The chart shows only data points with values between 0.220 and 0.354 (± 5 Standard Deviations).

The error bars encompassing each result are plotted at $\pm$ one standard deviation.

Copper

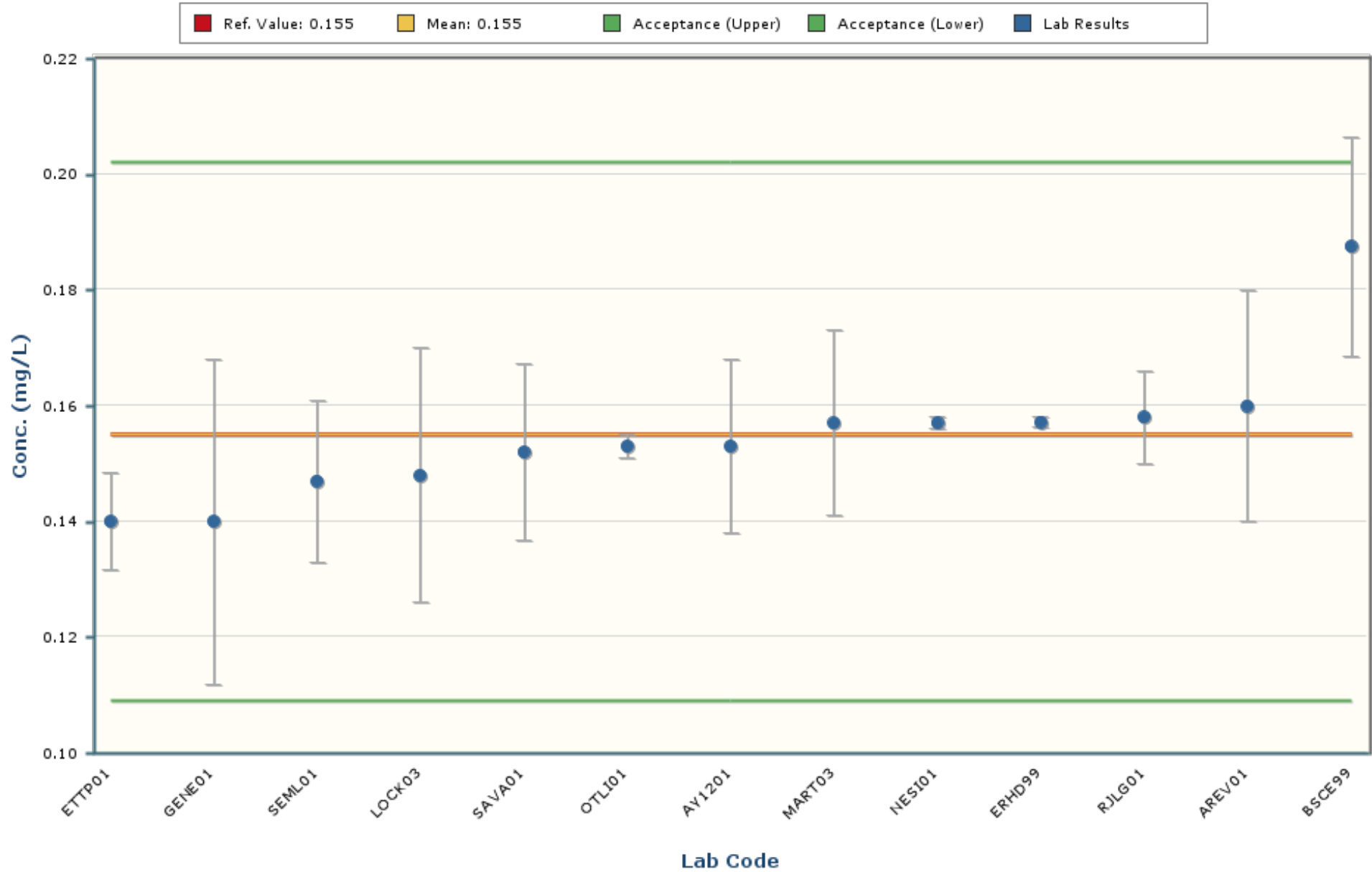
MAPEP-25-MaW53



Notes:
The chart mean excludes values outside of a bias range of $\pm 30\%$.
The chart shows only data points with values between 0.280 and 0.536 (± 5 Standard Deviations).
The error bars encompassing each result are plotted at $\pm$ one standard deviation.

Lead

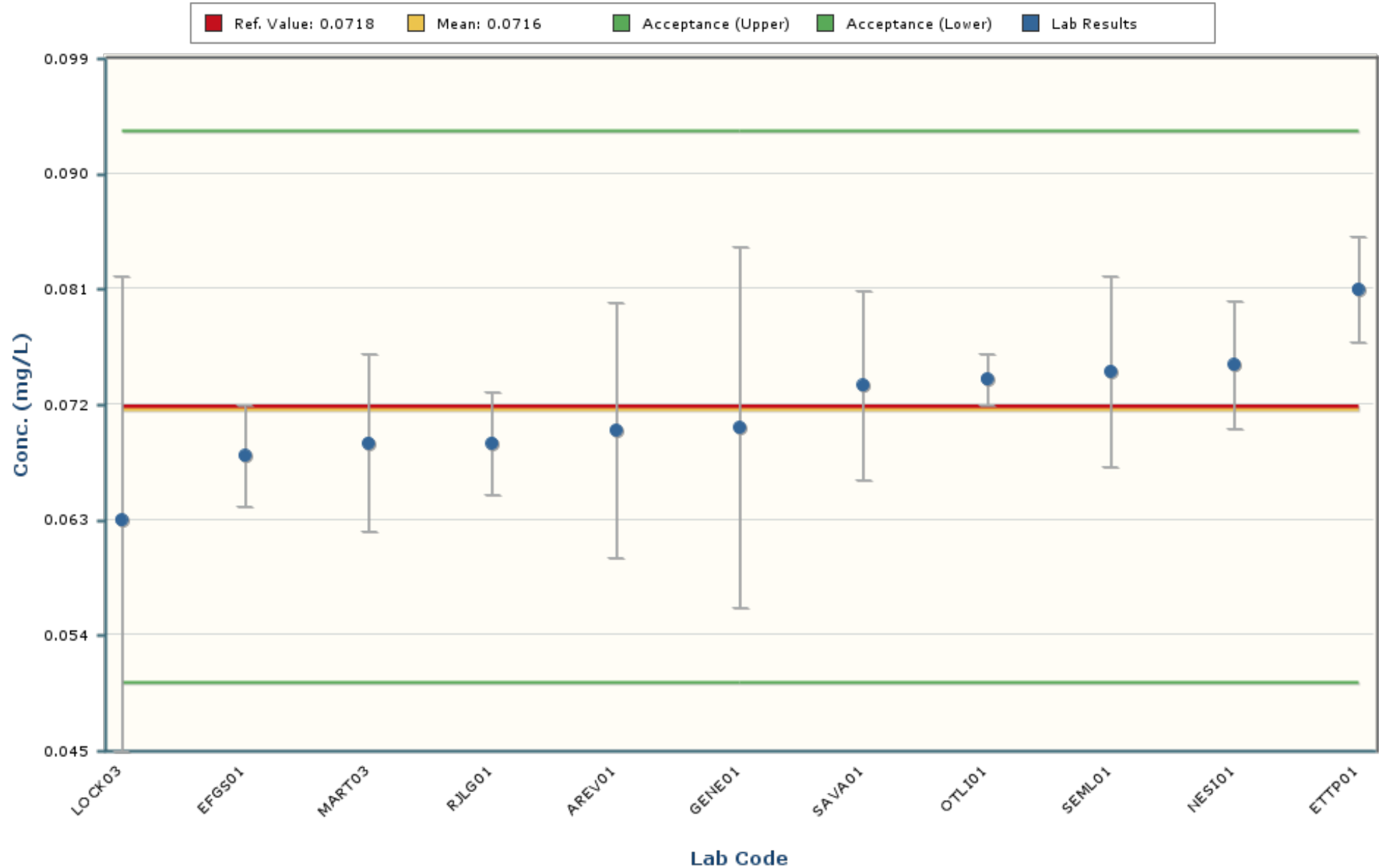
MAPEP-25-MaW53



Notes:
The chart mean excludes values outside of a bias range of $\pm 30\%$.
The chart shows only data points with values between 0.095 and 0.214 (± 5 Standard Deviations).
The error bars encompassing each result are plotted at $\pm$ one standard deviation.

Mercury

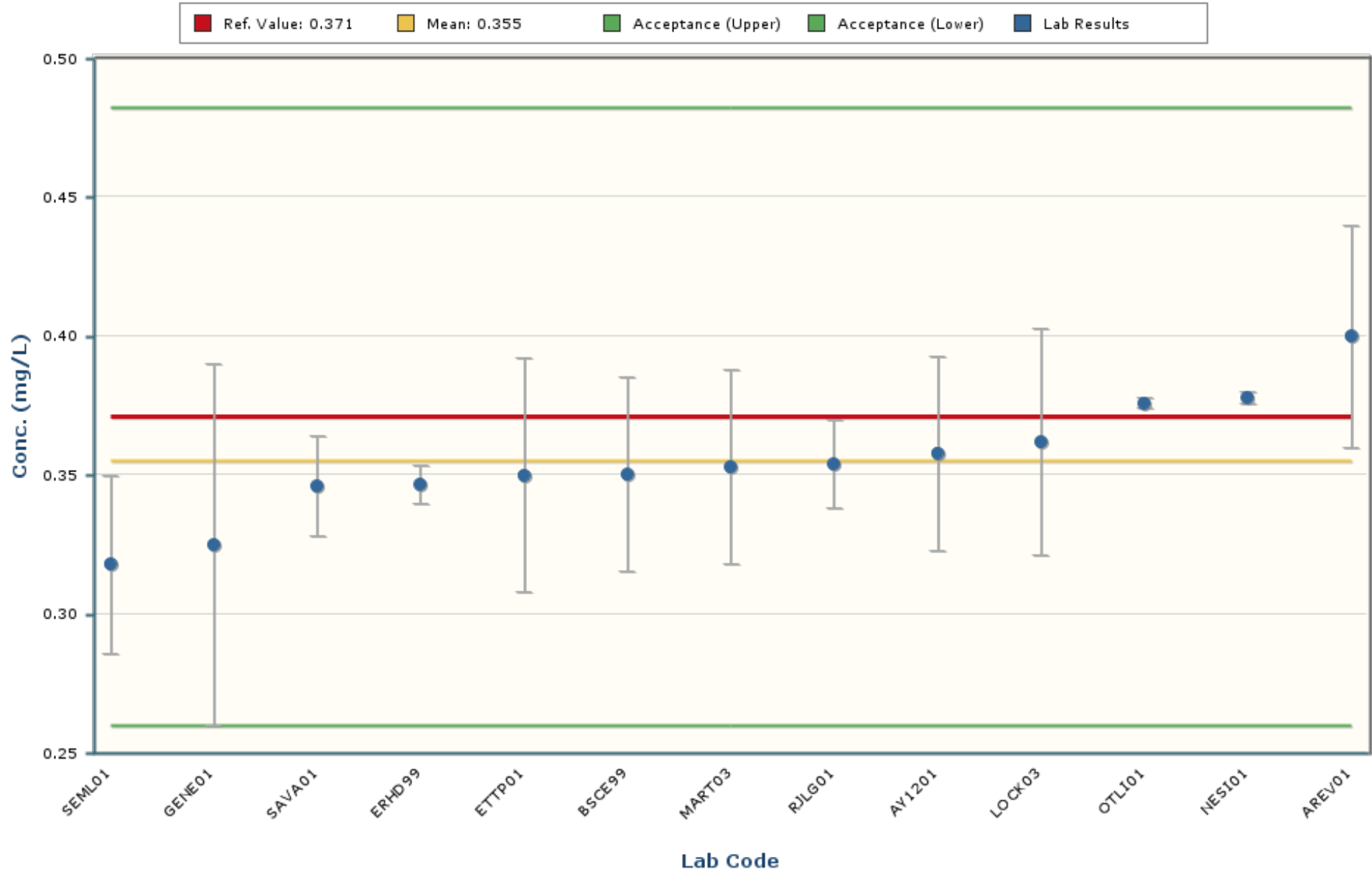
MAPEP-25-MaW53



Notes:
The chart mean excludes values outside of a bias range of $\pm 30\%$.
The chart shows only data points with values between 0.0479 and 0.0952 (± 5 Standard Deviations).
The error bars encompassing each result are plotted at $\pm$ one standard deviation.

Nickel

MAPEP-25-MaW53



Notes:

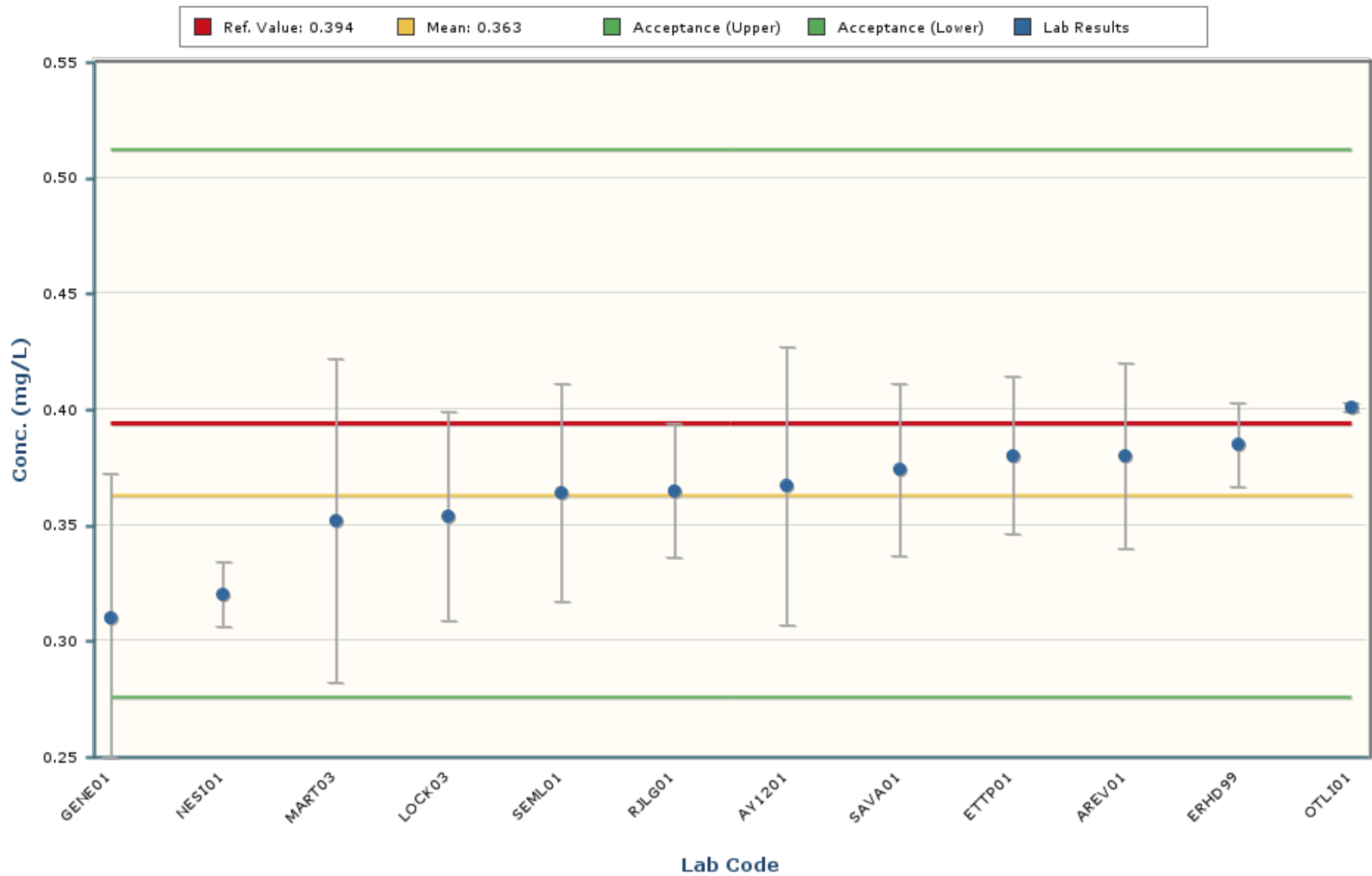
The chart mean excludes values outside of a bias range of $\pm 30\%$.

The chart shows only data points with values between 0.248 and 0.462 (± 5 Standard Deviations).

The error bars encompassing each result are plotted at $\pm$ one standard deviation.

Selenium

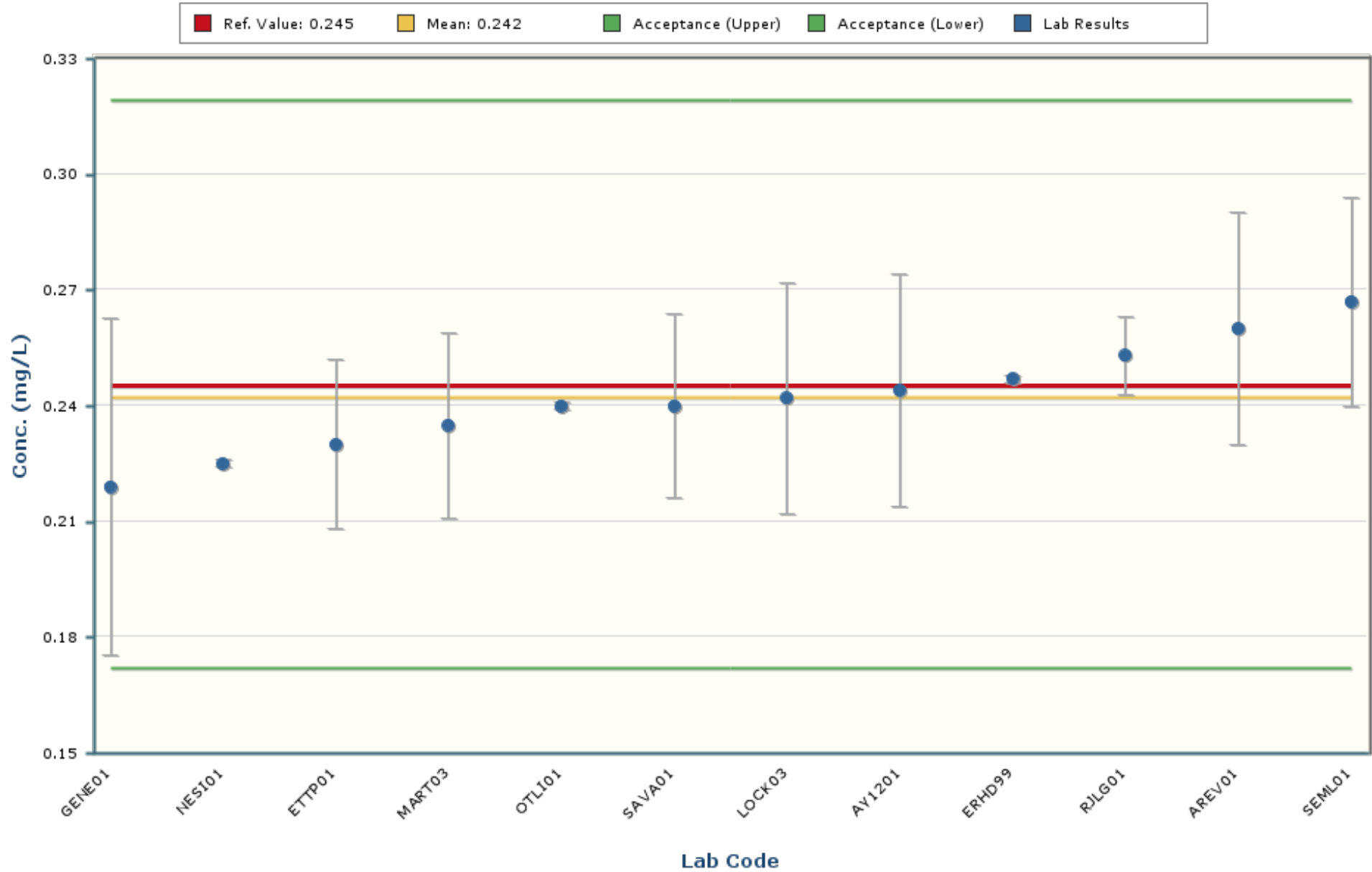
MAPEP-25-MaW53



Notes:
The chart mean excludes values outside of a bias range of $\pm 30\%$.
The chart shows only data points with values between 0.232 and 0.493 (± 5 Standard Deviations).
The error bars encompassing each result are plotted at $\pm$ one standard deviation.

Thallium

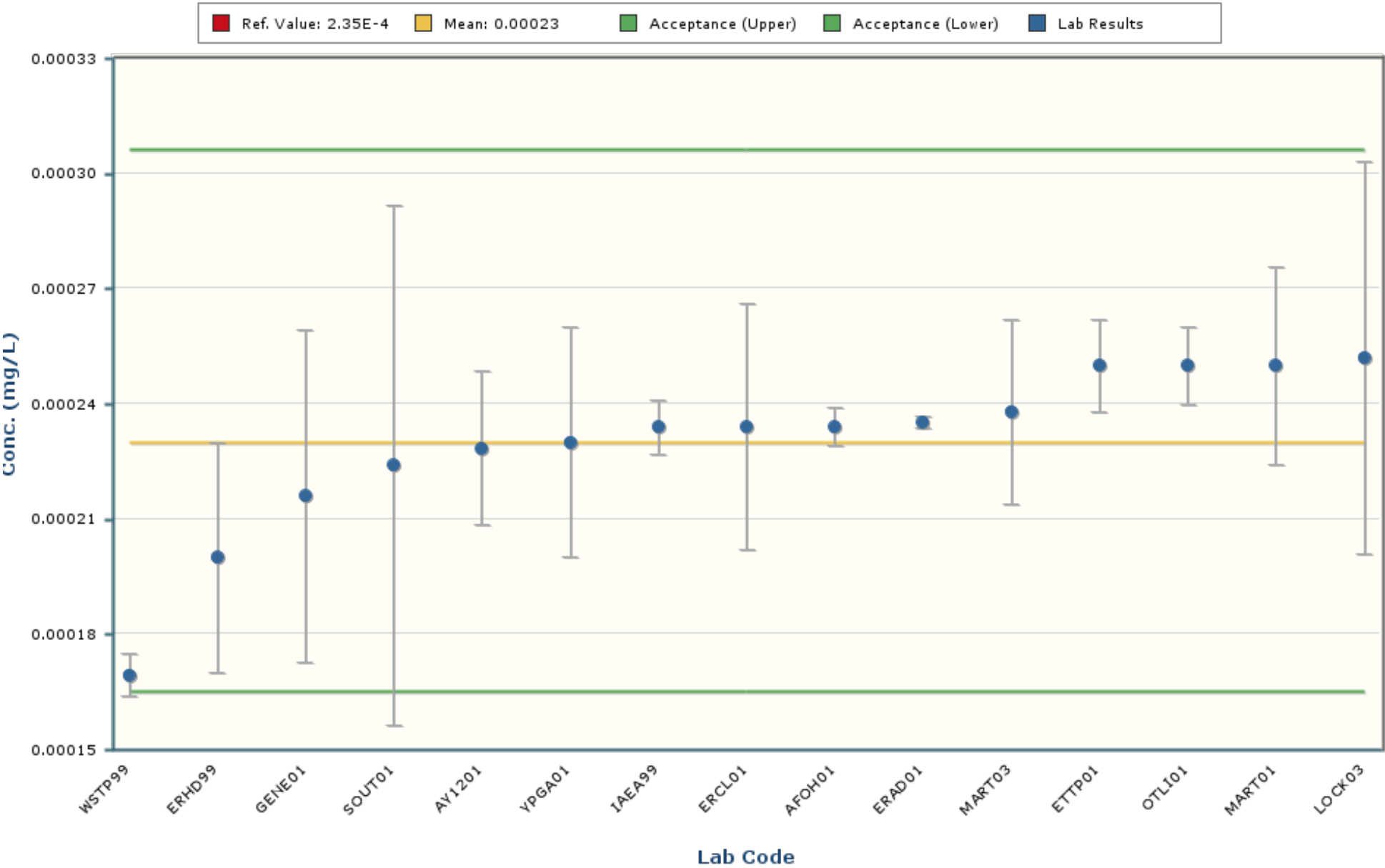
MAPEP-25-MaW53



Notes:
The chart mean excludes values outside of a bias range of $\pm 30\%$.
The chart shows only data points with values between 0.172 and 0.311 (± 5 Standard Deviations).
The error bars encompassing each result are plotted at $\pm$ one standard deviation.

Uranium-235

MAPEP-25-MaW53



Notes:

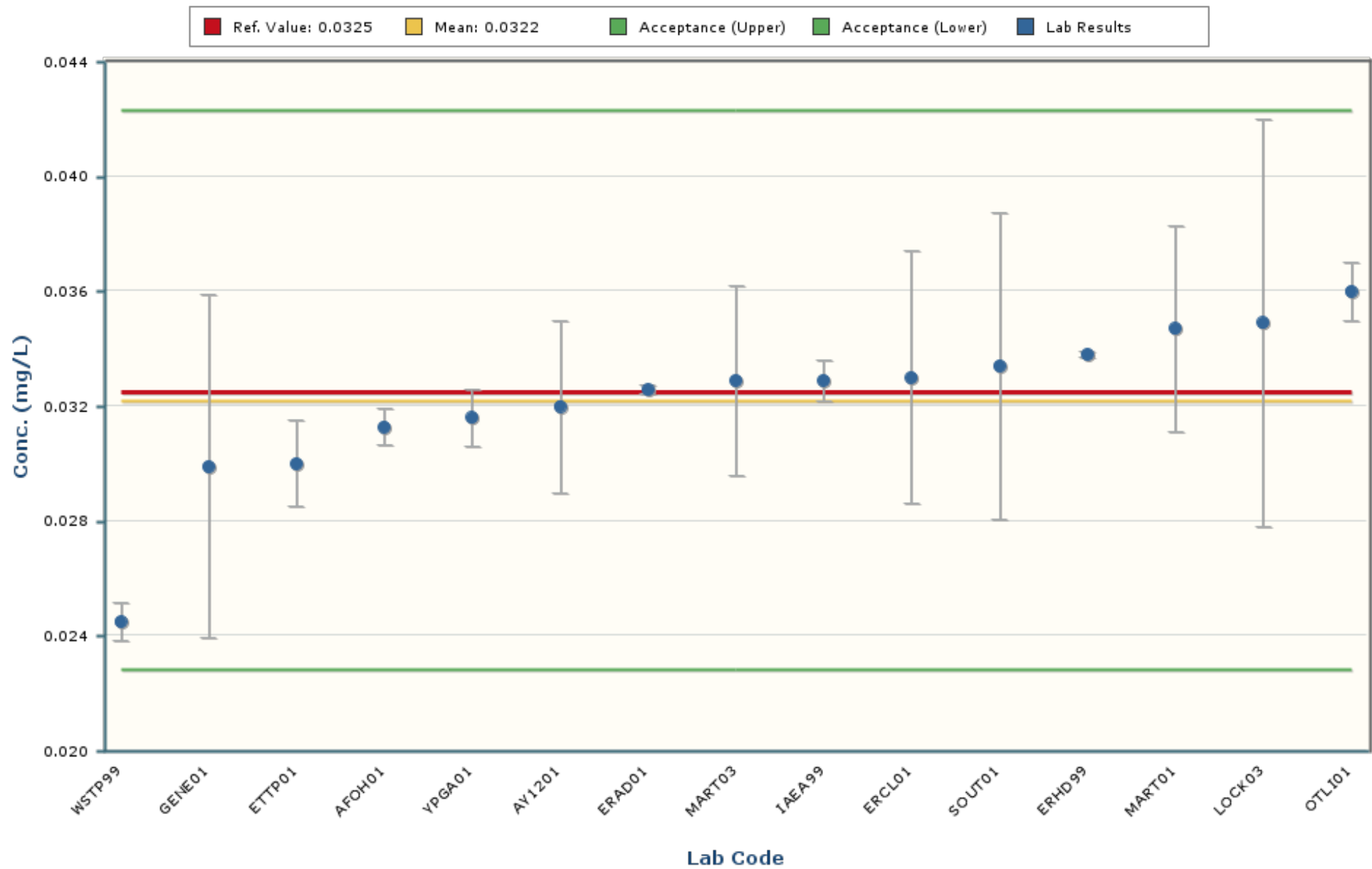
The chart mean excludes values outside of a bias range of $\pm 30\%$.

The chart shows only data points with values between 0.000121 and 0.000338 (± 5 Standard Deviations).

The error bars encompassing each result are plotted at $\pm$ one standard deviation.

Uranium-238

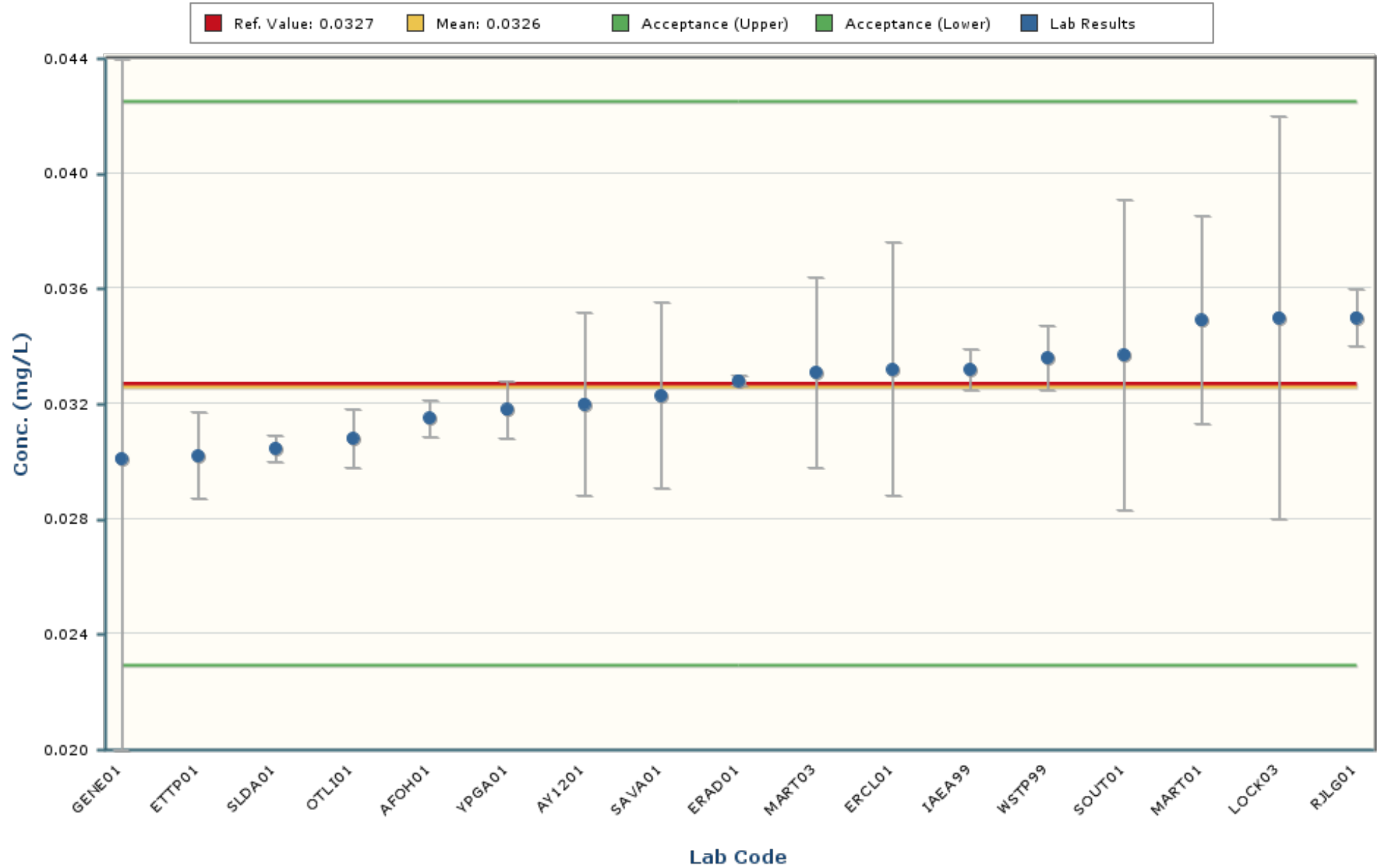
MAPEP-25-MaW53



Notes:
The chart mean excludes values outside of a bias range of $\pm 30\%$.
The chart shows only data points with values between 0.0186 and 0.0459 (± 5 Standard Deviations).
The error bars encompassing each result are plotted at $\pm$ one standard deviation.

Uranium-Total

MAPEP-25-MaW53



Notes:

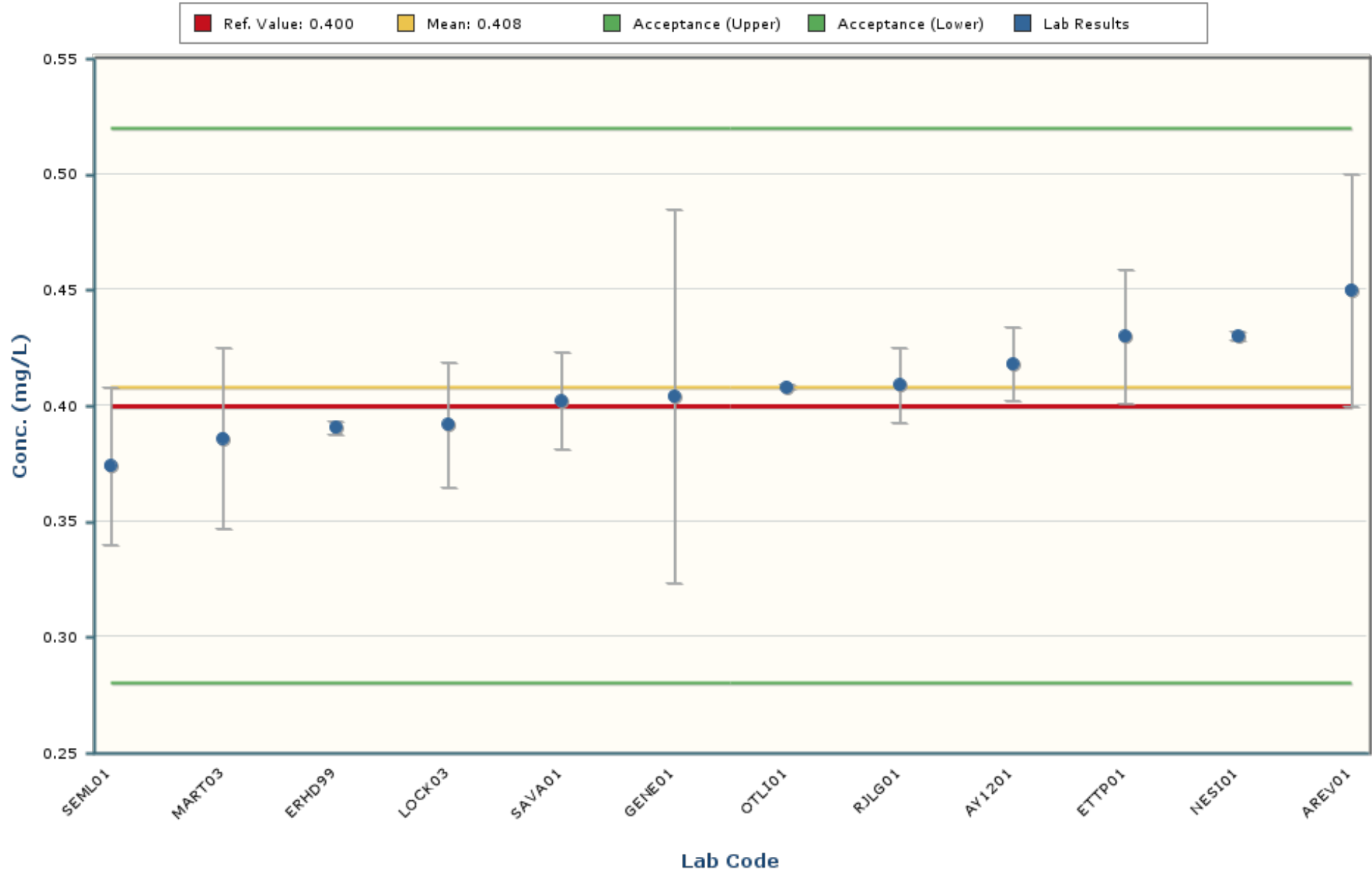
The chart mean excludes values outside of a bias range of $\pm 30\%$.

The chart shows only data points with values between 0.0245 and 0.0407 (± 5 Standard Deviations).

The error bars encompassing each result are plotted at $\pm$ one standard deviation.

Vanadium

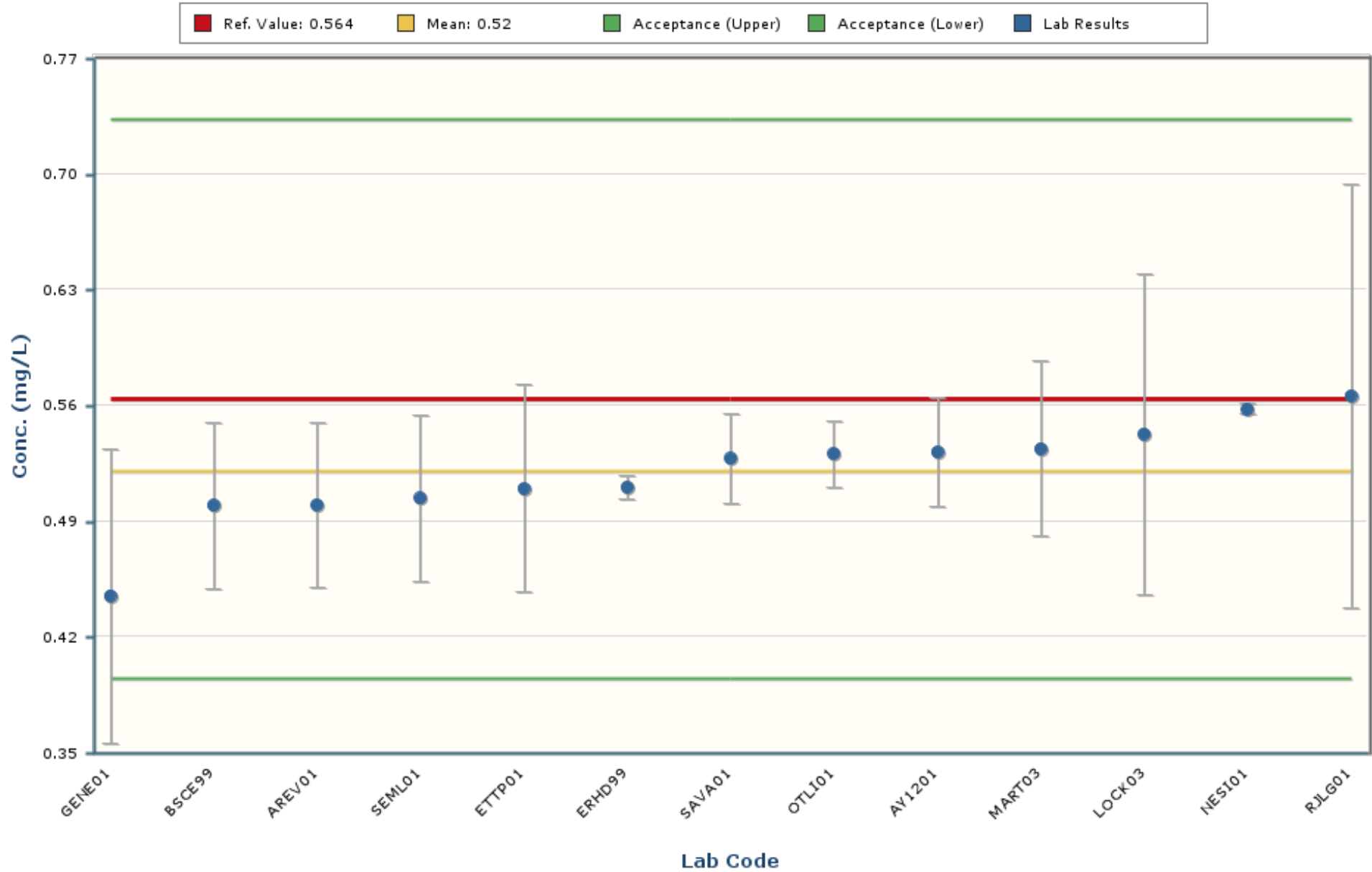
MAPEP-25-MaW53



Notes:
The chart mean excludes values outside of a bias range of $\pm 30\%$.
The chart shows only data points with values between 0.300 and 0.515 (± 5 Standard Deviations).
The error bars encompassing each result are plotted at $\pm$ one standard deviation.

Zinc

MAPEP-25-MaW53



Notes:

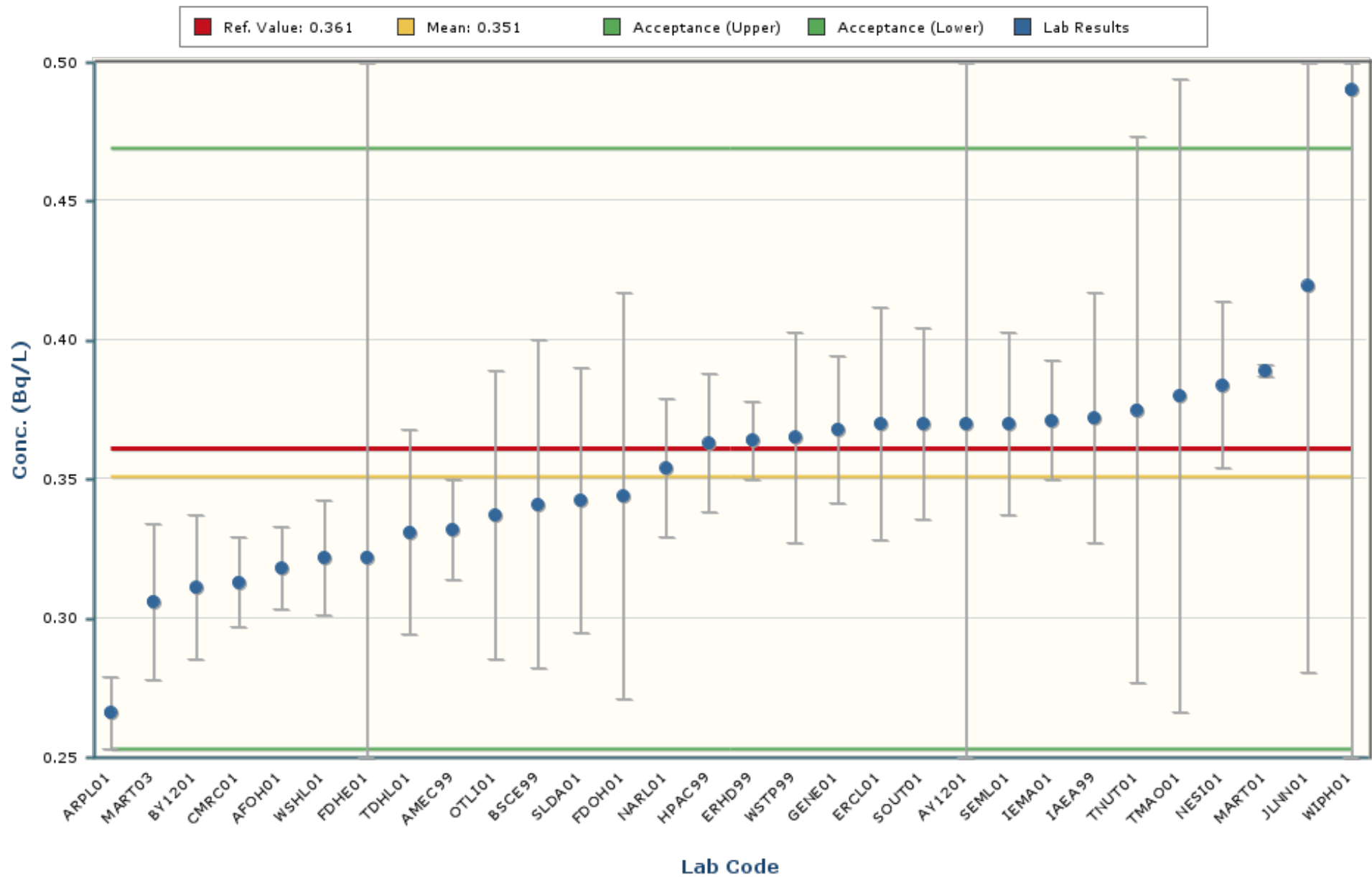
The chart mean excludes values outside of a bias range of $\pm 30\%$.

The chart shows only data points with values between 0.365 and 0.675 (± 5 Standard Deviations).

The error bars encompassing each result are plotted at $\pm$ one standard deviation.

Americium-241

MAPEP-25-MaW53



Notes:

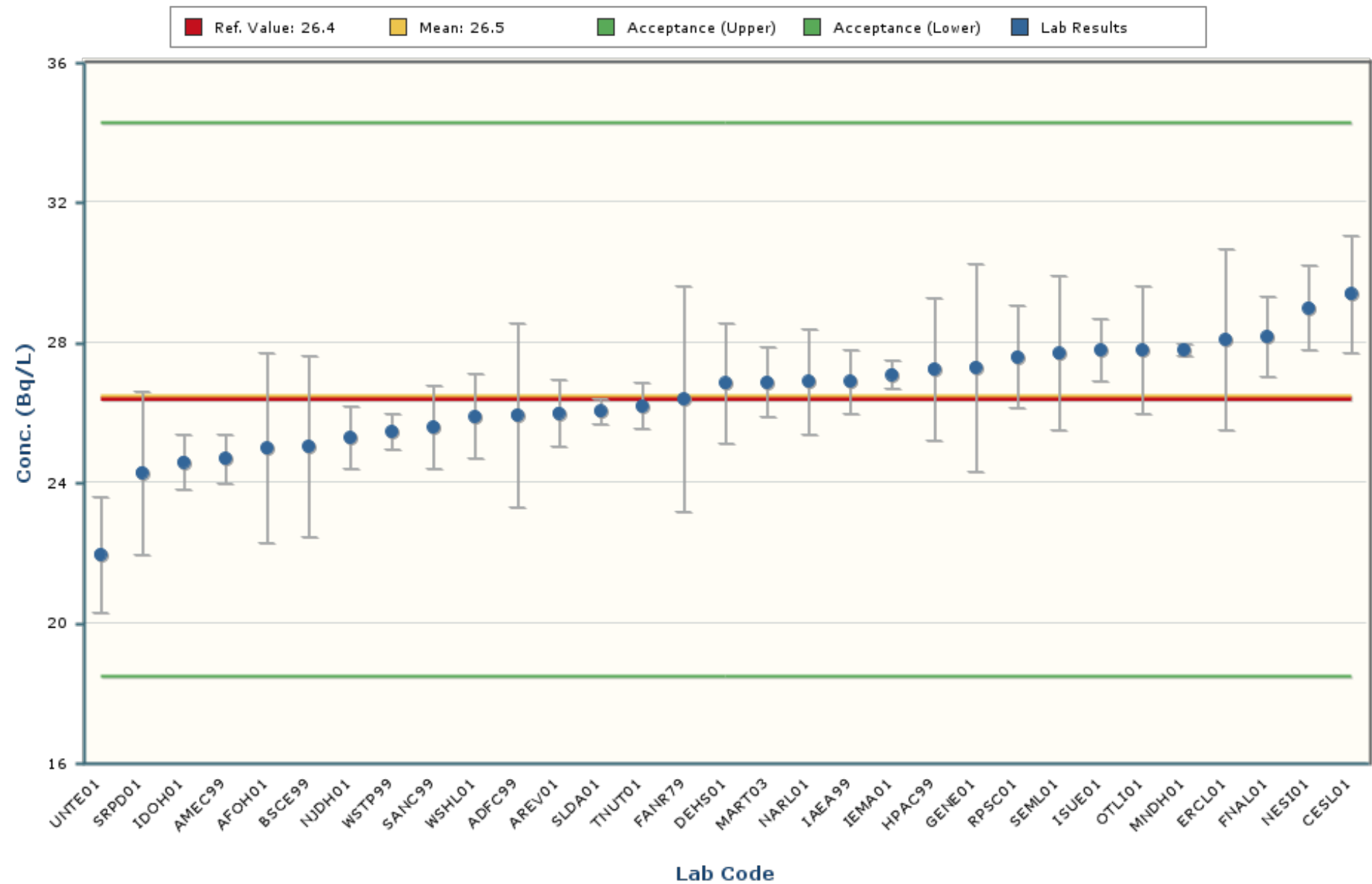
The chart mean excludes values outside of a bias range of $\pm 30\%$.

The chart shows only data points with values between 0.193 and 0.509 (± 5 Standard Deviations).

The error bars encompassing each result are plotted at $\pm$ one standard deviation.

Cerium-139

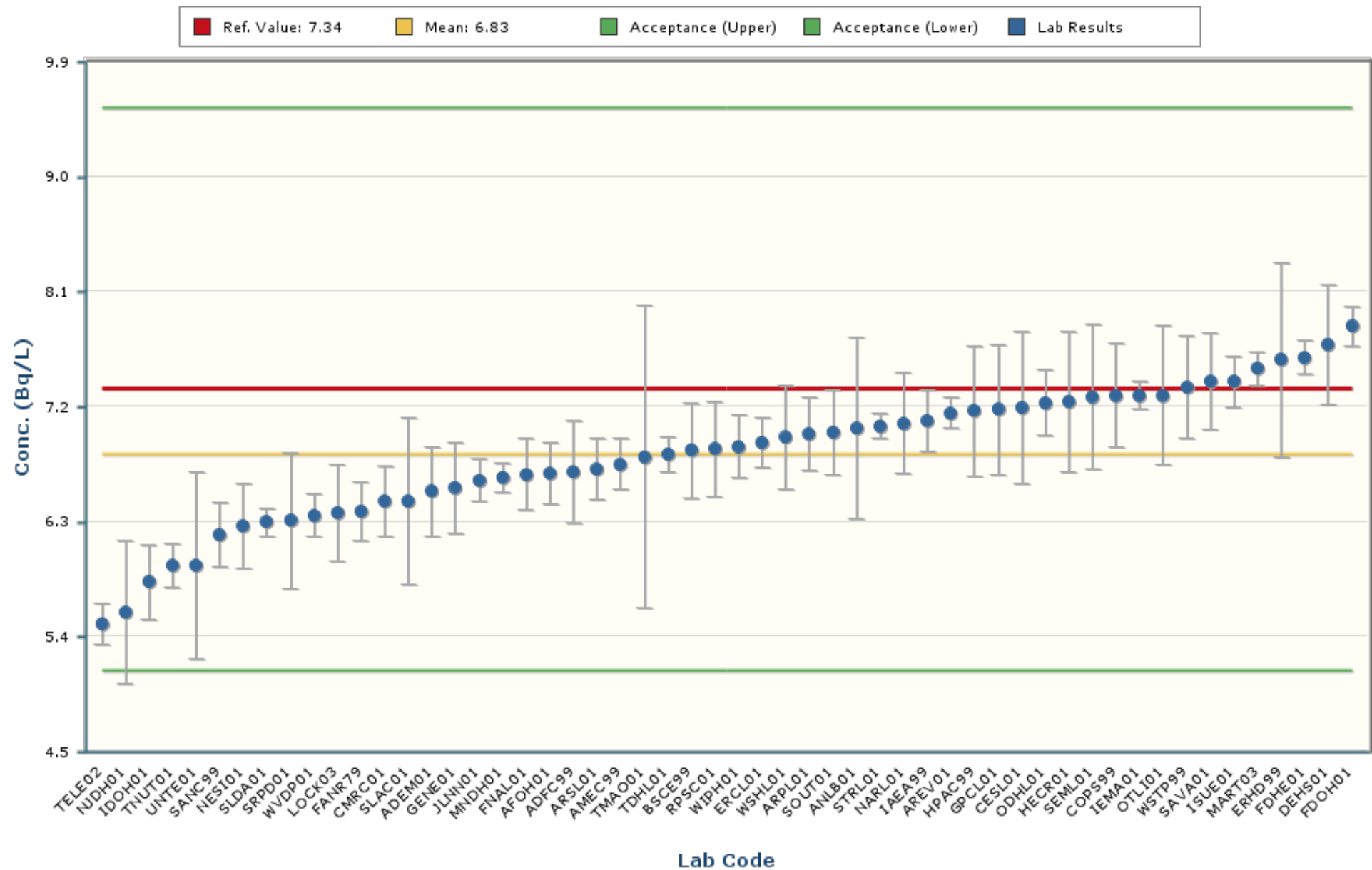
MAPEP-25-MaW53



Notes:
The chart mean excludes values outside of a bias range of $\pm 30\%$.
The chart shows only data points with values between 18.8 and 34.2 (± 5 Standard Deviations).
The error bars encompassing each result are plotted at $\pm$ one standard deviation.

Cesium-134

MAPEP-25-MaW53



Notes:

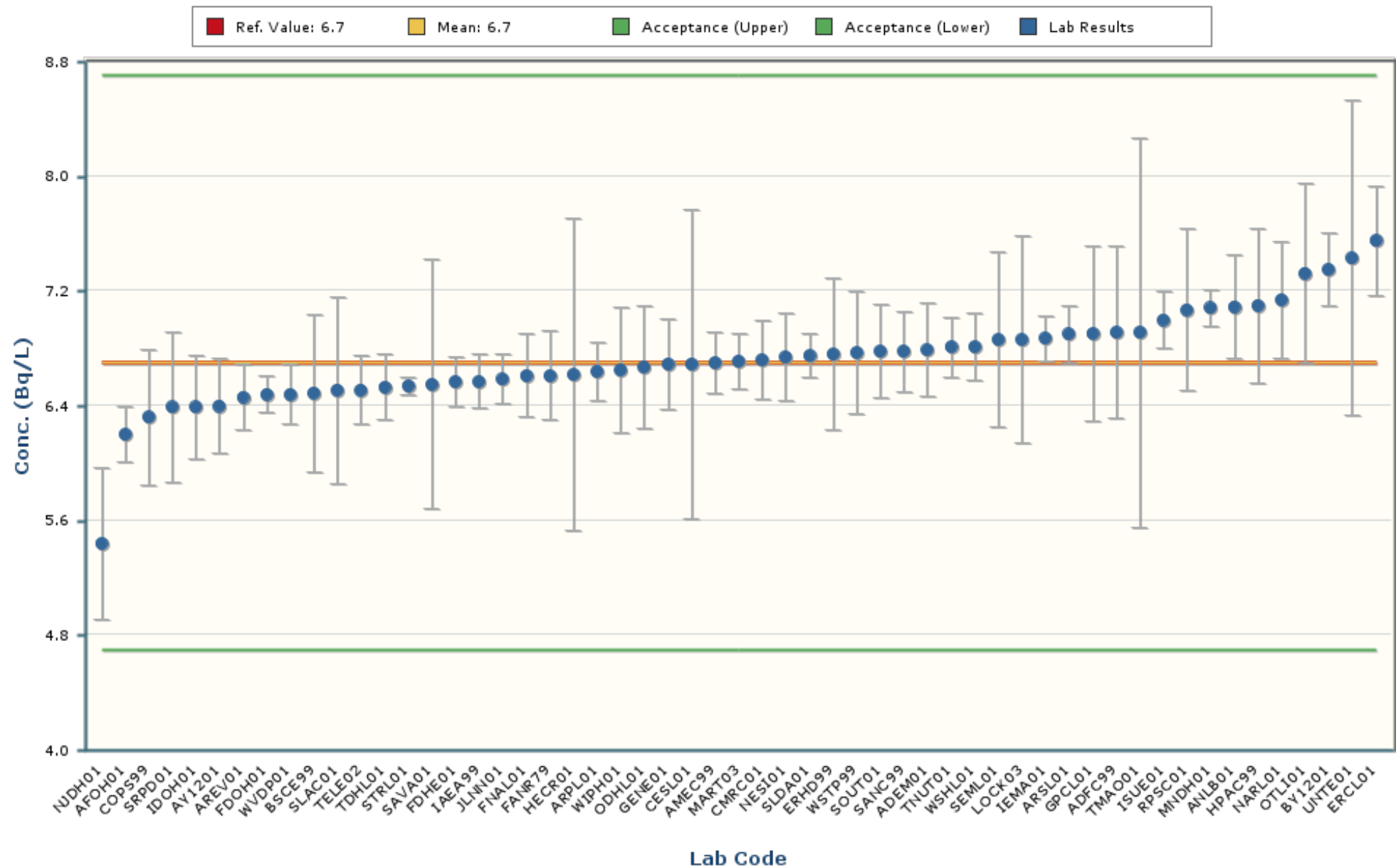
The chart mean excludes values outside of a bias range of $\pm 30\%$.

The chart shows only data points with values between 4.22 and 9.44 (± 5 Standard Deviations).

The error bars encompassing each result are plotted at $\pm$ one standard deviation.

Cesium-137

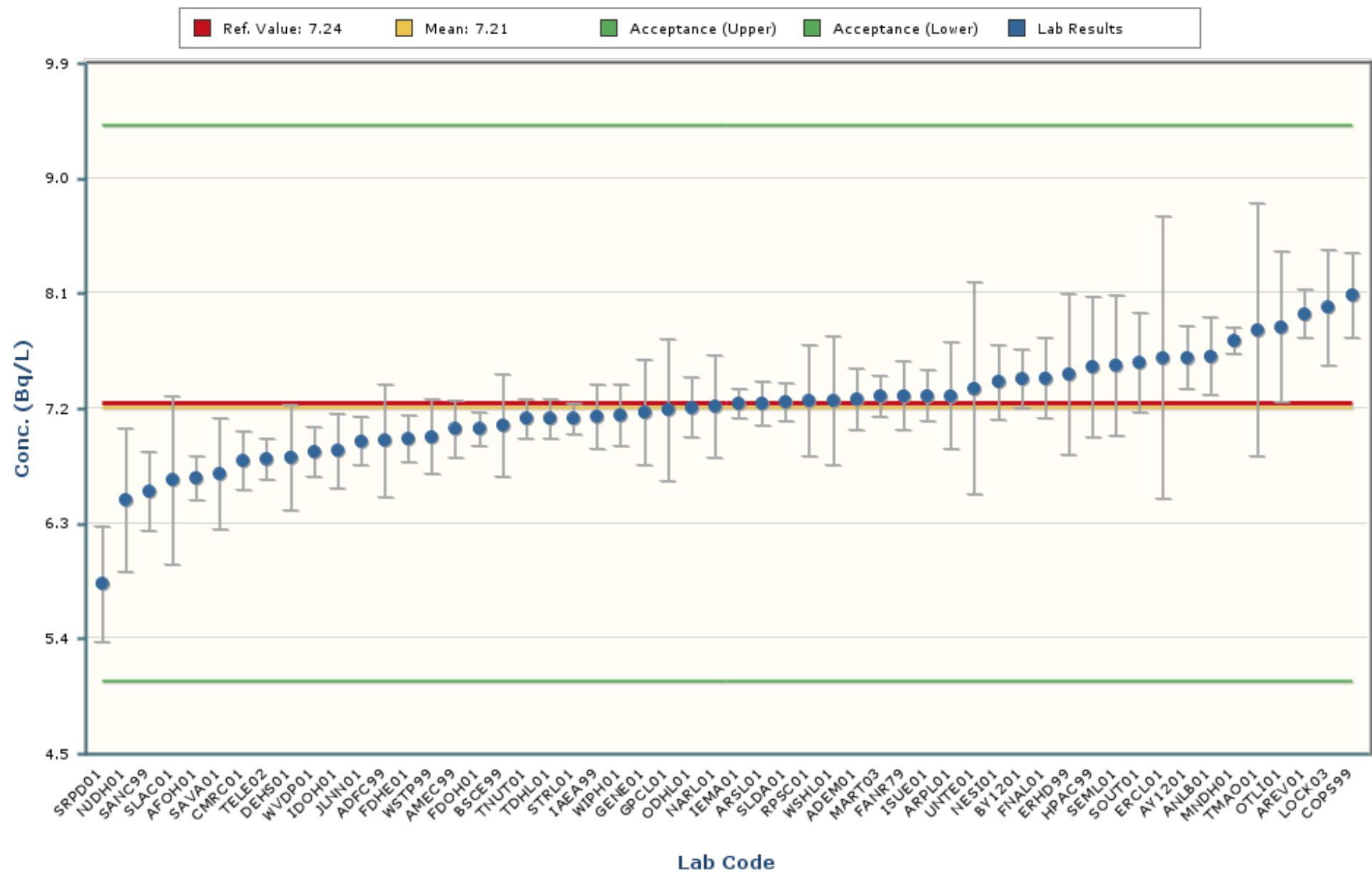
MAPEP-25-MaW53



Notes:
The chart mean excludes values outside of a bias range of $\pm 30\%$.
The chart shows only data points with values between 5.1 and 8.4 (± 5 Standard Deviations).
The error bars encompassing each result are plotted at ± 1 standard deviation.

Cobalt-60

MAPEP-25-MaW53



Notes:

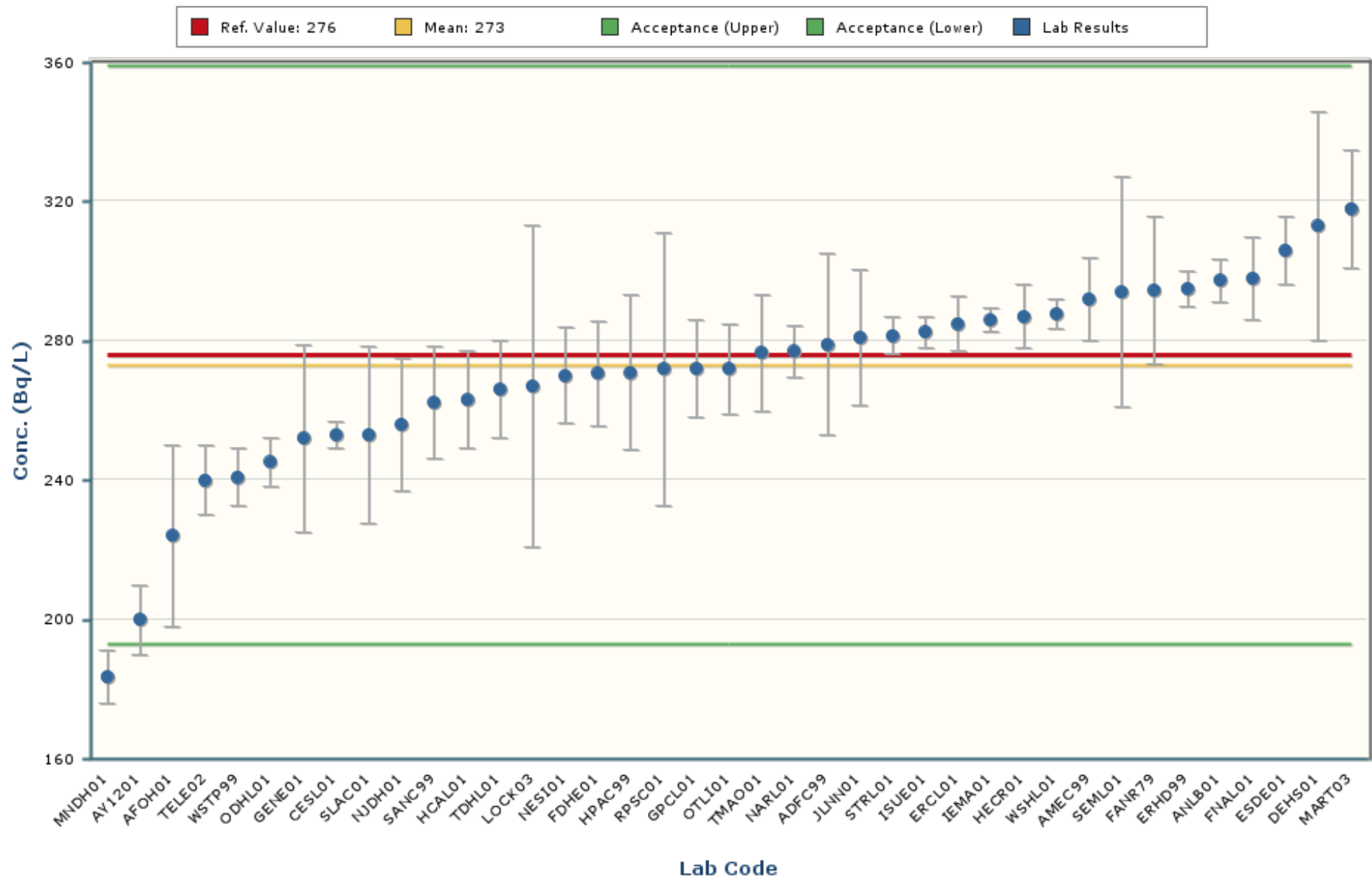
The chart mean excludes values outside of a bias range of $\pm 30\%$.

The chart shows only data points with values between 5.16 and 9.25 (± 5 Standard Deviations).

The error bars encompassing each result are plotted at $\pm$ one standard deviation.

Hydrogen-3

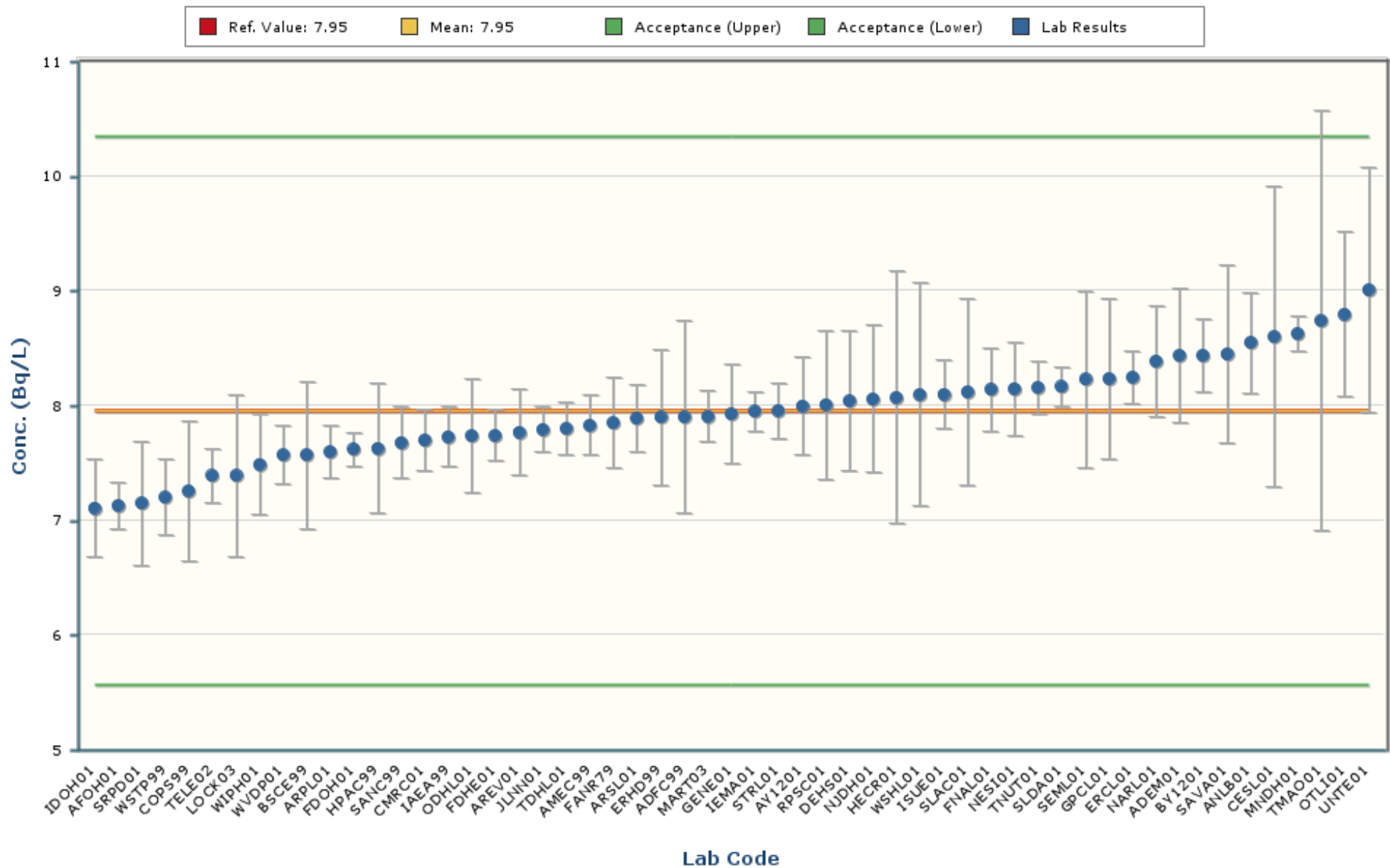
MAPEP-25-MaW53



Notes:
The chart mean excludes values outside of a bias range of $\pm 30\%$.
The chart shows only data points with values between 154 and 393 (± 5 Standard Deviations).
The error bars encompassing each result are plotted at $\pm$ one standard deviation.

Manganese-54

MAPEP-25-MaW53



Notes:

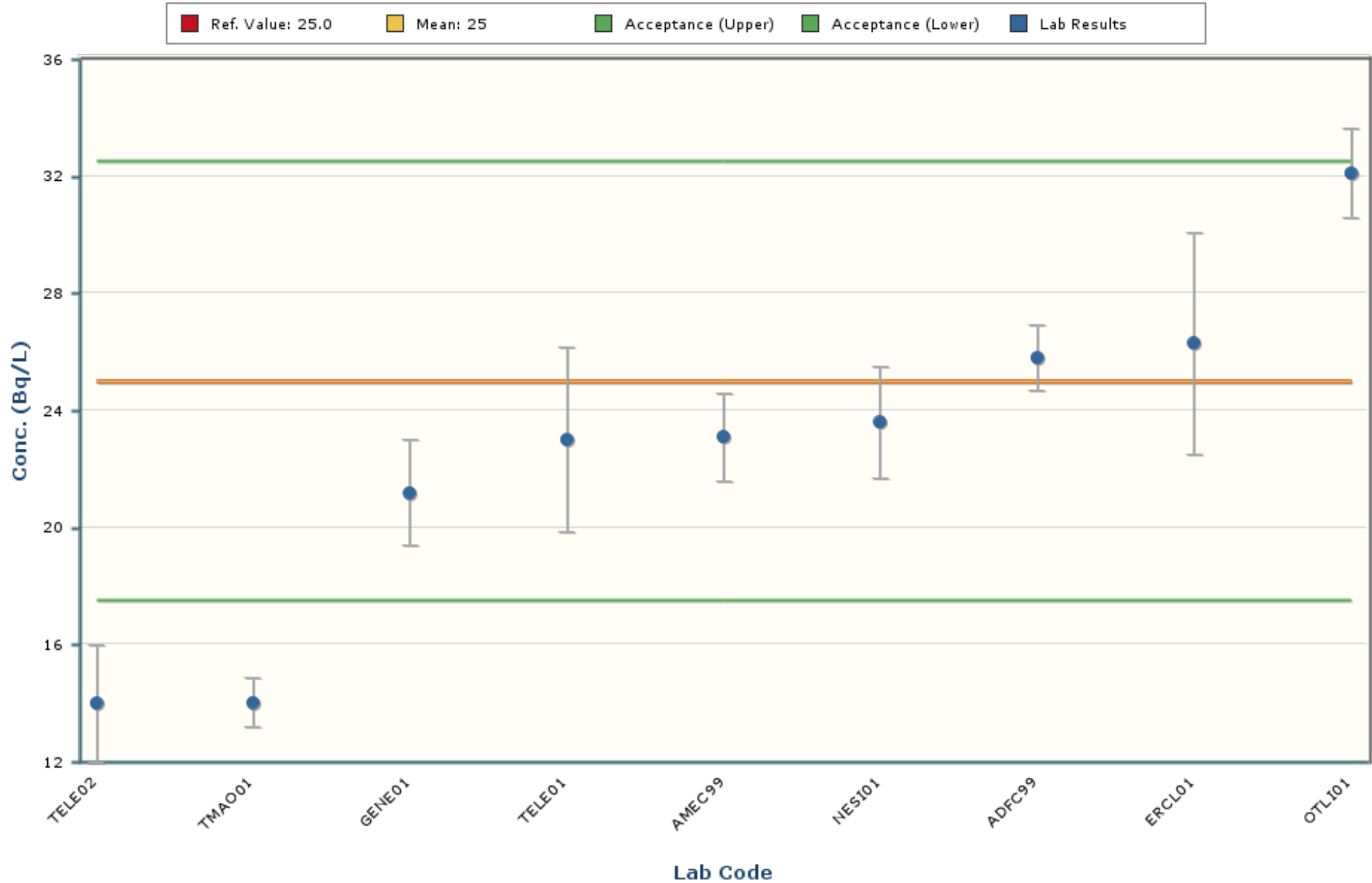
The chart mean excludes values outside of a bias range of $\pm 30\%$.

The chart shows only data points with values between 5.79 and 10.11 (± 5 Standard Deviations).

The error bars encompassing each result are plotted at $\pm$ one standard deviation.

Nickel-63

MAPEP-25-MaW53



Notes:

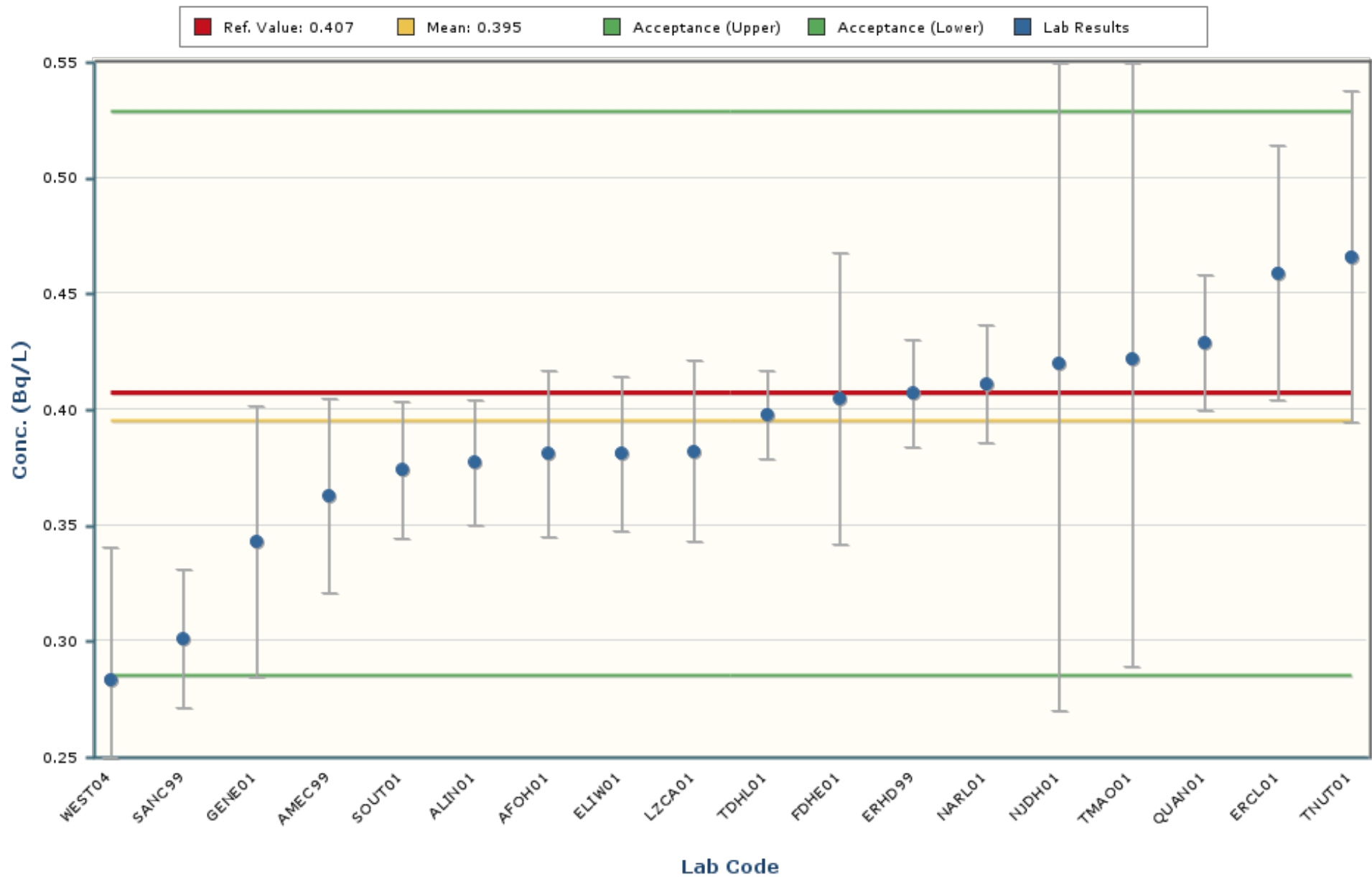
The chart mean excludes values outside of a bias range of $\pm 30\%$.

The chart shows only data points with values between 7.1 and 42.9 (± 5 Standard Deviations).

The error bars encompassing each result are plotted at $\pm$ one standard deviation.

Radium-226

MAPEP-25-MaW53



Notes:

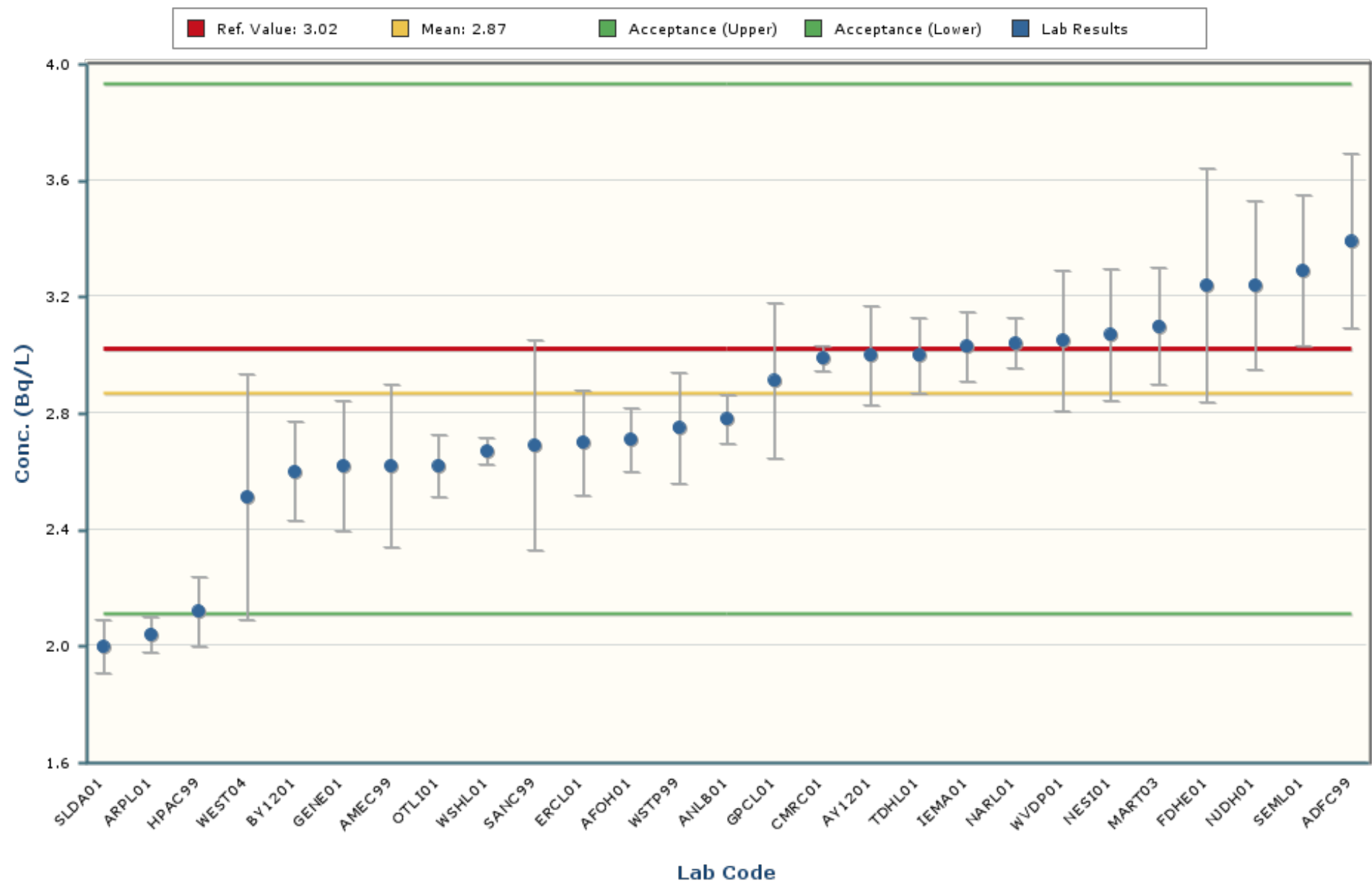
The chart mean excludes values outside of a bias range of $\pm 30\%$.

The chart shows only data points with values between 0.194 and 0.597 (± 5 Standard Deviations).

The error bars encompassing each result are plotted at $\pm$ one standard deviation.

Strontium-90

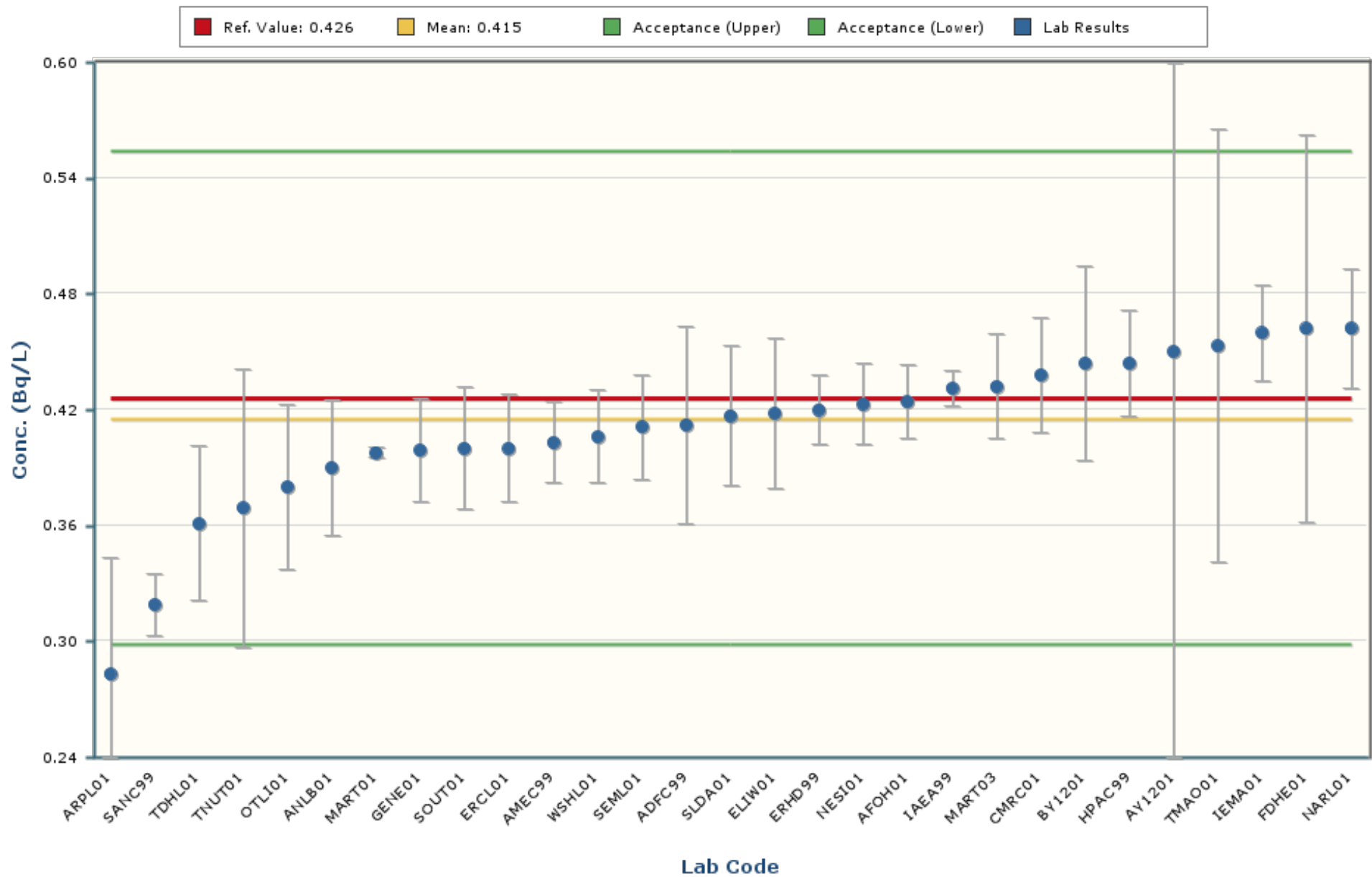
MAPEP-25-MaW53



Notes:
The chart mean excludes values outside of a bias range of $\pm 30\%$.
The chart shows only data points with values between 1.41 and 4.33 (± 5 Standard Deviations).
The error bars encompassing each result are plotted at $\pm$ one standard deviation.

Uranium-234

MAPEP-25-MaW53



Notes:

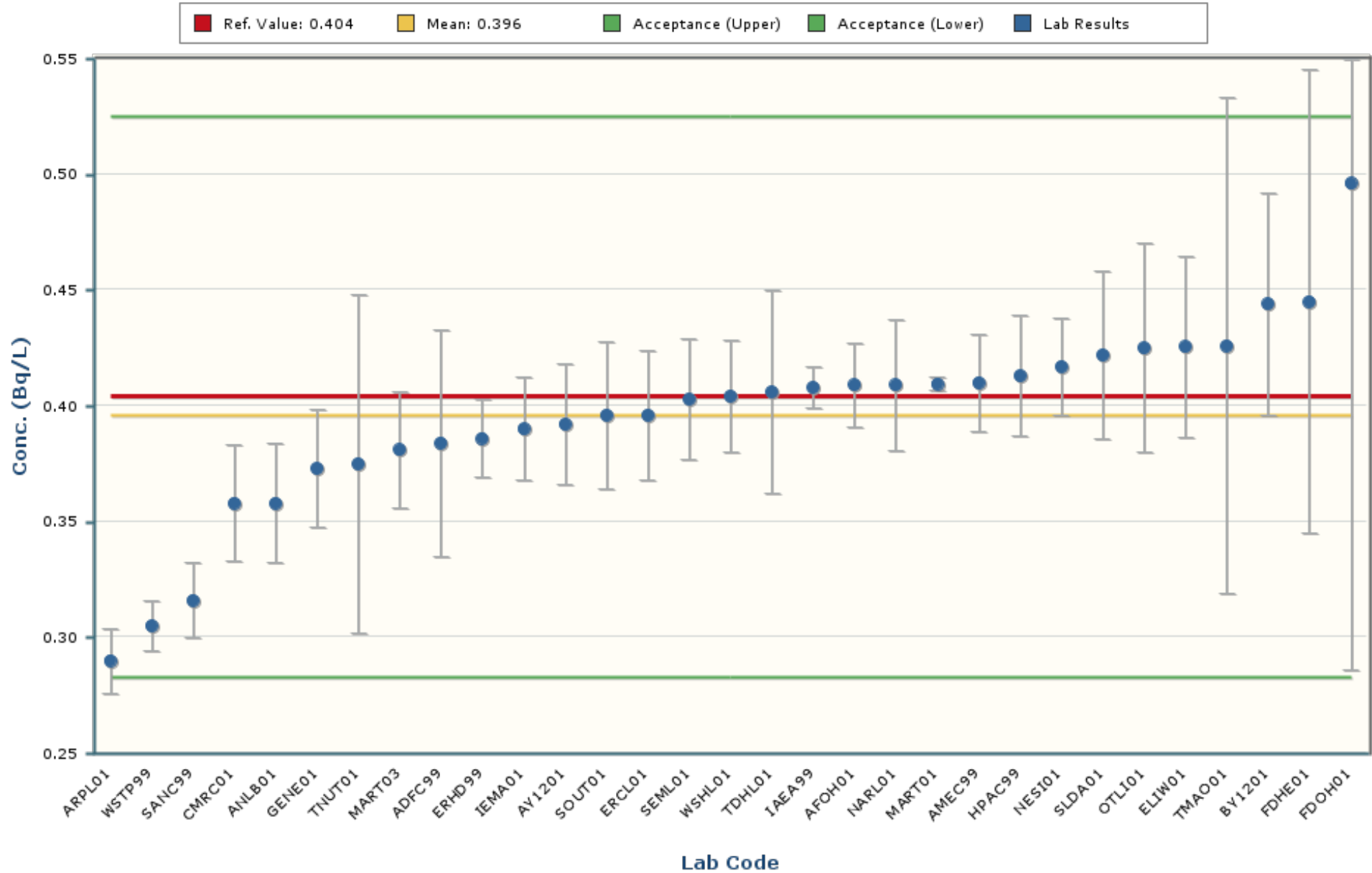
The chart mean excludes values outside of a bias range of $\pm 30\%$.

The chart shows only data points with values between 0.250 and 0.580 (± 5 Standard Deviations).

The error bars encompassing each result are plotted at $\pm$ one standard deviation.

Uranium-238

MAPEP-25-MaW53



Notes:

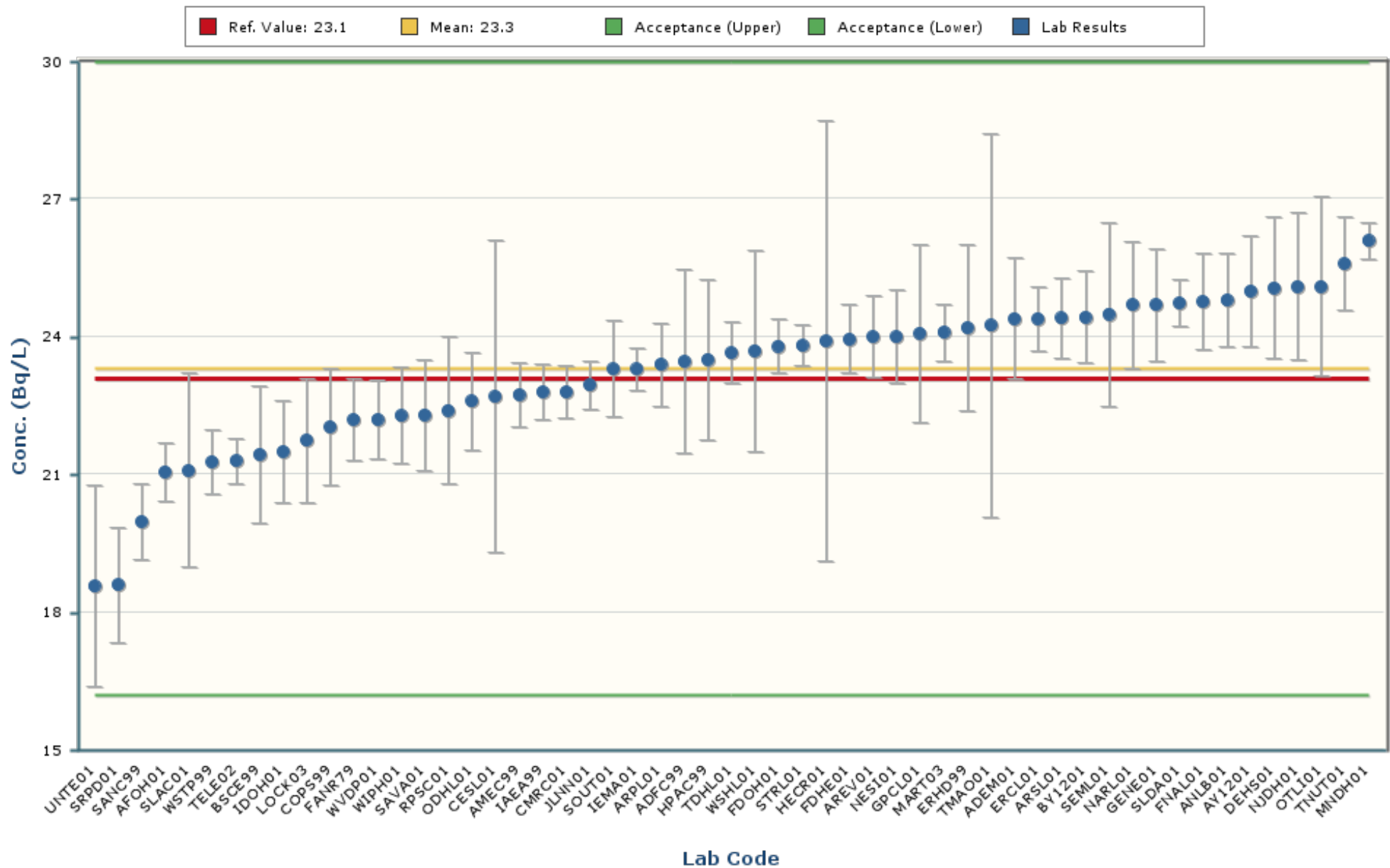
The chart mean excludes values outside of a bias range of $\pm 30\%$.

The chart shows only data points with values between 0.192 and 0.600 (± 5 Standard Deviations).

The error bars encompassing each result are plotted at $\pm$ one standard deviation.

Zinc-65

MAPEP-25-MaW53



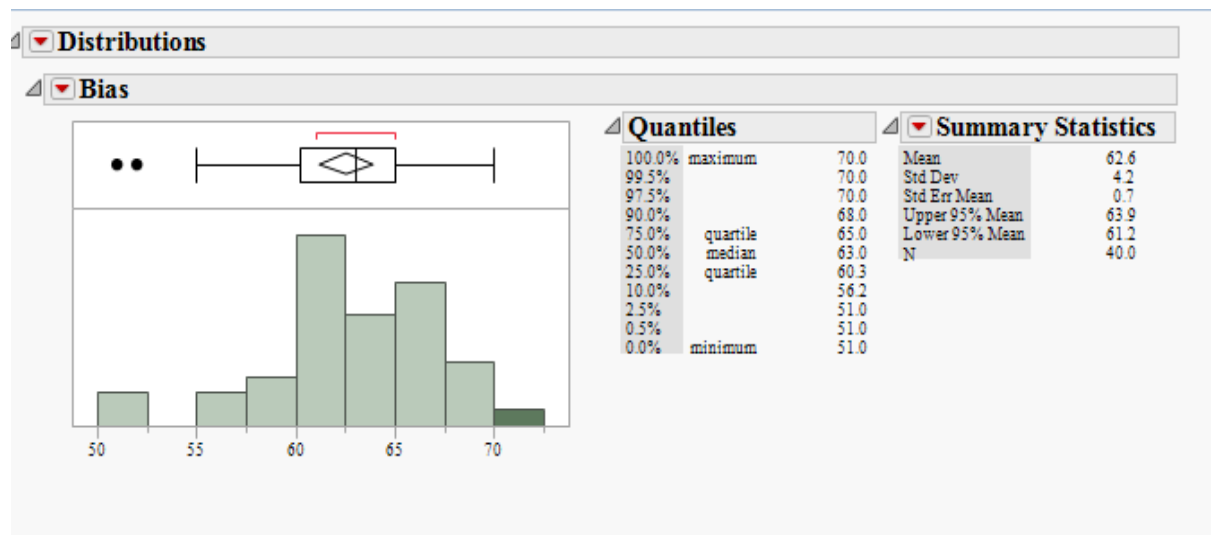
Notes:

The chart mean excludes values outside of a bias range of $\pm 30\%$.

The chart shows only data points with values between 15.2 and 31.3 (± 5 Standard Deviations).

The error bars encompassing each result are plotted at ± 1 standard deviation.

The intent of the distribution graphs contained within this report is to graphically demonstrate to users how % Bias data within the current MAPEP Series appears when examined by matrix, by analyte, by method of sample preparation or by method of detection. Biases greater than +/- 100% have been screened from the data. The box plot of the bias data points and the mean visually illustrate the breadth of the distribution and where potential outliers in the distribution might lie. The statistics for the distribution plot are provided adjacent to the Bias plot. In some cases, N becomes very small and thus developed statistics may not accurately reflect estimates of the population if N were a significantly larger value.

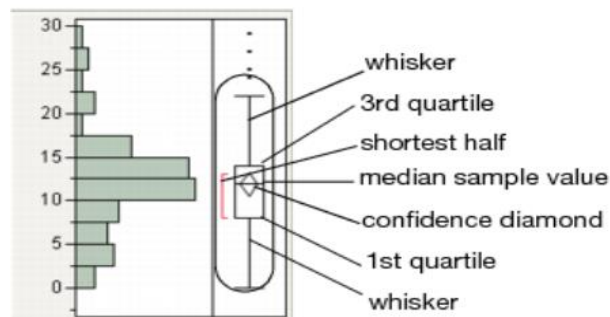


Outlier Box Plot

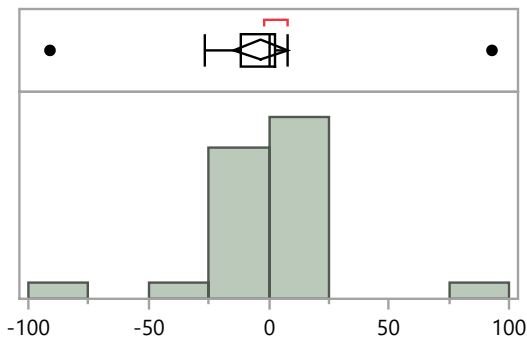
The BLACK small vertical line inside the small rectangle at the top of the data distribution graph is the median of the population of the bias shown for that analyte in the matrix. The confidence diamond contains the mean and the upper and lower 95% of the mean. If you drew a line through the middle of the diamond, you would have the mean. The top and bottom points of the diamond represent the upper and lower 95% of the mean. The ends of the box represent the 25th and 75th quantiles, also expressed as 1st and 3rd quartile. The difference between the 1st and 3rd quartiles is called the interquartile range. Each box has lines that extend from each end, sometimes called whiskers. The whiskers extend from the ends of the box to the outermost data point that falls within the distances computed as follows:

3rd quartile + 1.5*(interquartile range)

1st quartile - 1.5*(interquartile range)



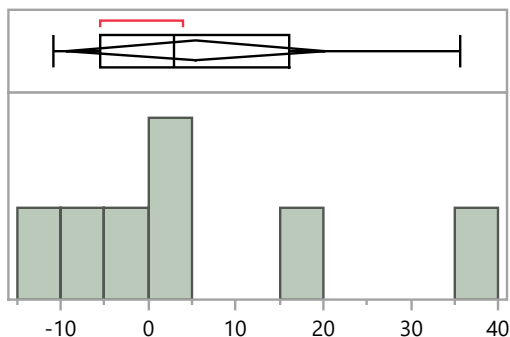
If the data points do not reach the computed ranges, then the whiskers are determined by the upper and lower data point values (not including outliers). The bracket outside of the box identifies the *shortest half*, which is the most dense 50% of the observations (Rousseuw and Leroy 1987).

MaW53 Distribution by Detection Method**Distributions Analyte_Detection=Americium-241 Alpha Spectrometry****Bias****Quantiles**

100.0%	maximum	92.8
99.5%		92.8
97.5%		92.8
90.0%		7.0
75.0%	quartile	2.5
50.0%	median	0.6
25.0%	quartile	-11.4
10.0%		-19.6
2.5%		-90.9
0.5%		-90.9
0.0%	minimum	-90.9

Summary Statistics

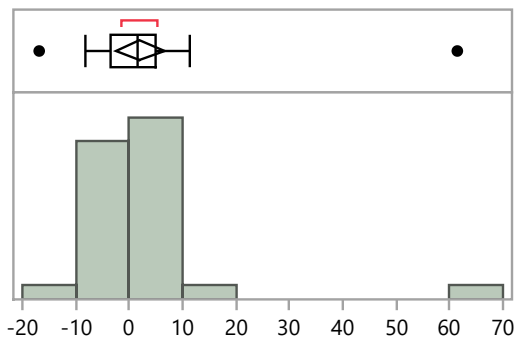
Mean	-3.3
Std Dev	27.8
Std Err Mean	5.6
Upper 95% Mean	8.2
Lower 95% Mean	-14.8
N	25.0

Distributions Analyte_Detection=Americium-241 Gamma Spectrometry**Bias****Quantiles**

100.0%	maximum	35.7
99.5%		35.7
97.5%		35.7
90.0%		35.7
75.0%	quartile	16.2
50.0%	median	3.0
25.0%	quartile	-5.5
10.0%		-10.8
2.5%		-10.8
0.5%		-10.8
0.0%	minimum	-10.8

Summary Statistics

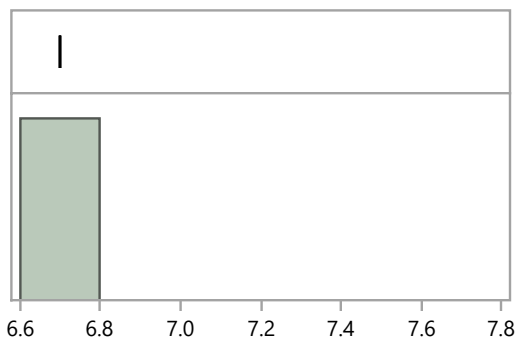
Mean	5.4
Std Dev	15.9
Std Err Mean	6.0
Upper 95% Mean	20.1
Lower 95% Mean	-9.3
N	7.0

Distributions Analyte_Detection=Cerium-139 Gamma Spectrometry**Bias****Quantiles**

100.0%	maximum	61.4
99.5%		61.4
97.5%		61.4
90.0%		9.1
75.0%	quartile	4.9
50.0%	median	1.7
25.0%	quartile	-3.5
10.0%		-6.7
2.5%		-16.8
0.5%		-16.8
0.0%	minimum	-16.8

Summary Statistics

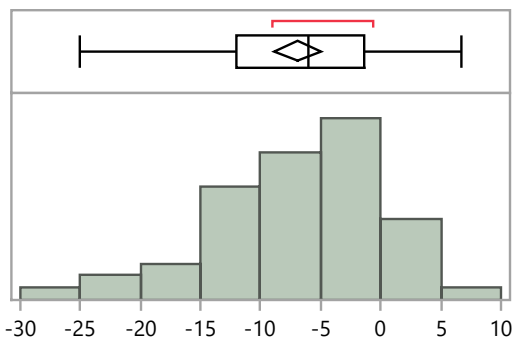
Mean	2.1
Std Dev	12.4
Std Err Mean	2.2
Upper 95% Mean	6.6
Lower 95% Mean	-2.5
N	31.0

MaW53 Distribution by Detection Method**Distributions Analyte_Detection=Cerium-139 Liquid Scintillation Counter****Bias****Quantiles**

100.0%	maximum	6.7
99.5%		6.7
97.5%		6.7
90.0%		6.7
75.0%	quartile	6.7
50.0%	median	6.7
25.0%	quartile	6.7
10.0%		6.7
2.5%		6.7
0.5%		6.7
0.0%	minimum	6.7

Summary Statistics

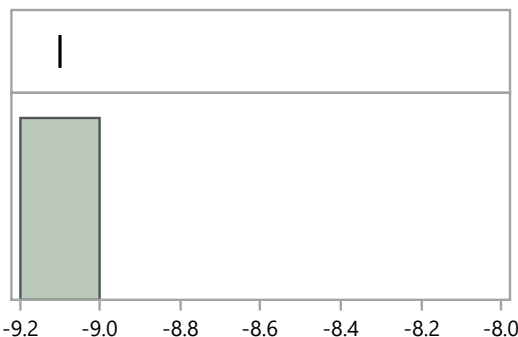
Mean	6.7
Std Dev	.
Std Err Mean	.
Upper 95% Mean	.
Lower 95% Mean	.
N	1.0

Distributions Analyte_Detection=Cesium-134 Gamma Spectrometry**Bias****Quantiles**

100.0%	maximum	6.7
99.5%		6.7
97.5%		6.0
90.0%		1.6
75.0%	quartile	-1.5
50.0%	median	-6.1
25.0%	quartile	-12.0
10.0%		-17.5
2.5%		-24.6
0.5%		-25.1
0.0%	minimum	-25.1

Summary Statistics

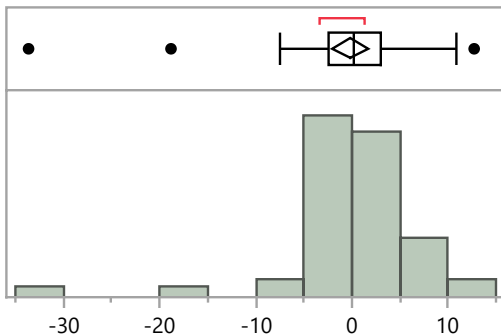
Mean	-6.9
Std Dev	7.2
Std Err Mean	1.0
Upper 95% Mean	-4.9
Lower 95% Mean	-8.9
N	53.0

Distributions Analyte_Detection=Cesium-134 Liquid Scintillation Counter**Bias****Quantiles**

100.0%	maximum	-9.1
99.5%		-9.1
97.5%		-9.1
90.0%		-9.1
75.0%	quartile	-9.1
50.0%	median	-9.1
25.0%	quartile	-9.1
10.0%		-9.1
2.5%		-9.1
0.5%		-9.1
0.0%	minimum	-9.1

Summary Statistics

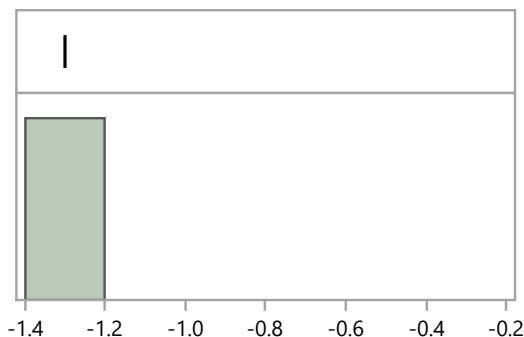
Mean	-9.1
Std Dev	.
Std Err Mean	.
Upper 95% Mean	.
Lower 95% Mean	.
N	1.0

MaW53 Distribution by Detection Method**Distributions Analyte_Detection=Cesium-137 Gamma Spectrometry****Bias****Quantiles**

100.0%	maximum	12.7
99.5%		12.7
97.5%		12.0
90.0%		6.2
75.0%	quartile	3.0
50.0%	median	0.1
25.0%	quartile	-2.5
10.0%		-4.6
2.5%		-27.7
0.5%		-33.6
0.0%	minimum	-33.6

Summary Statistics

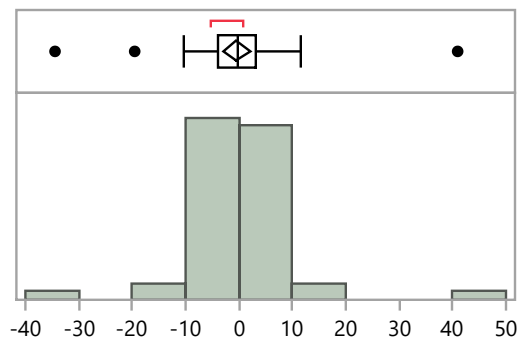
Mean	-0.2
Std Dev	6.7
Std Err Mean	0.9
Upper 95% Mean	1.7
Lower 95% Mean	-2.0
N	55.0

Distributions Analyte_Detection=Cesium-137 Liquid Scintillation Counter**Bias****Quantiles**

100.0%	maximum	-1.3
99.5%		-1.3
97.5%		-1.3
90.0%		-1.3
75.0%	quartile	-1.3
50.0%	median	-1.3
25.0%	quartile	-1.3
10.0%		-1.3
2.5%		-1.3
0.5%		-1.3
0.0%	minimum	-1.3

Summary Statistics

Mean	-1.3
Std Dev	.
Std Err Mean	.
Upper 95% Mean	.
Lower 95% Mean	.
N	1.0

Distributions Analyte_Detection=Cobalt-60 Gamma Spectrometry**Bias****Quantiles**

100.0%	maximum	40.9
99.5%		40.9
97.5%		29.2
90.0%		8.1
75.0%	quartile	3.2
50.0%	median	-0.3
25.0%	quartile	-4.0
10.0%		-8.1
2.5%		-28.4
0.5%		-34.4
0.0%	minimum	-34.4

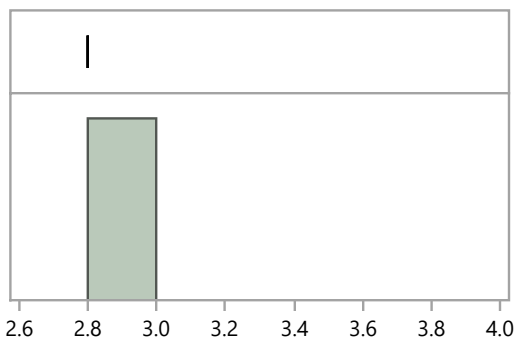
Summary Statistics

Mean	-0.4
Std Dev	9.2
Std Err Mean	1.2
Upper 95% Mean	2.1
Lower 95% Mean	-2.9
N	55.0

MaW53 Distribution by Detection Method

Distributions Analyte_Detection=Cobalt-60 Liquid Scintillation Counter

Bias



Quantiles

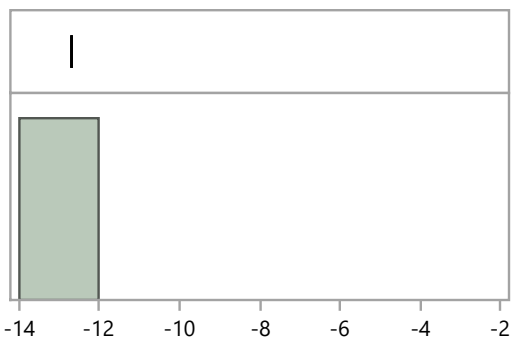
100.0%	maximum	2.8
99.5%		2.8
97.5%		2.8
90.0%		2.8
75.0%	quartile	2.8
50.0%	median	2.8
25.0%	quartile	2.8
10.0%		2.8
2.5%		2.8
0.5%		2.8
0.0%	minimum	2.8

Summary Statistics

Mean	2.8
Std Dev	.
Std Err Mean	.
Upper 95% Mean	.
Lower 95% Mean	.
N	1.0

Distributions Analyte_Detection=Hydrogen-3 Alpha Spectrometry

Bias



Quantiles

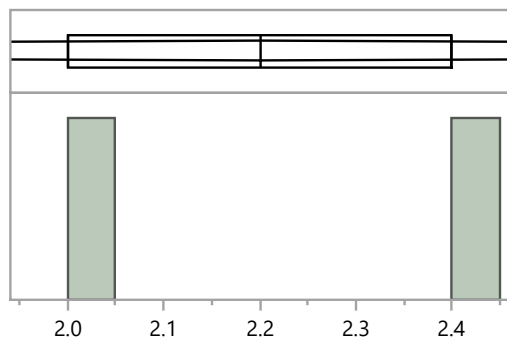
100.0%	maximum	-12.7
99.5%		-12.7
97.5%		-12.7
90.0%		-12.7
75.0%	quartile	-12.7
50.0%	median	-12.7
25.0%	quartile	-12.7
10.0%		-12.7
2.5%		-12.7
0.5%		-12.7
0.0%	minimum	-12.7

Summary Statistics

Mean	-12.7
Std Dev	.
Std Err Mean	.
Upper 95% Mean	.
Lower 95% Mean	.
N	1.0

Distributions Analyte_Detection=Hydrogen-3 Gamma Spectrometry

Bias

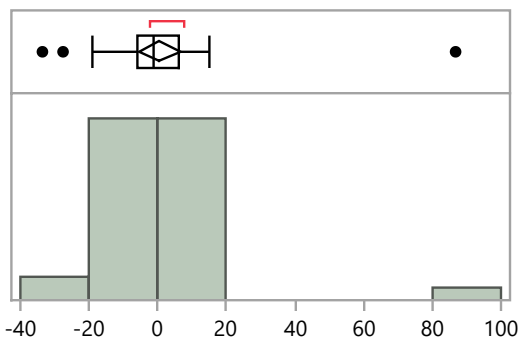


Quantiles

100.0%	maximum	2.4
99.5%		2.4
97.5%		2.4
90.0%		2.4
75.0%	quartile	2.4
50.0%	median	2.2
25.0%	quartile	2.0
10.0%		2.0
2.5%		2.0
0.5%		2.0
0.0%	minimum	2.0

Summary Statistics

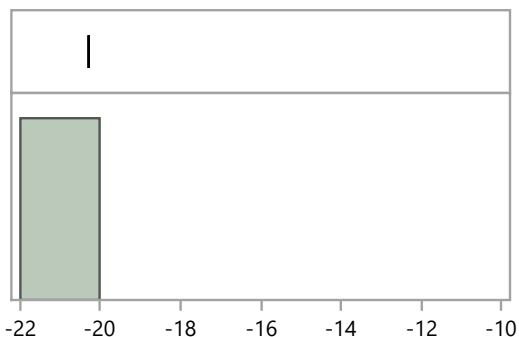
Mean	2.2
Std Dev	0.3
Std Err Mean	0.2
Upper 95% Mean	4.7
Lower 95% Mean	-0.3
N	2.0

MaW53 Distribution by Detection Method**Distributions Analyte_Detection=Hydrogen-3 Liquid Scintillation Counter****Bias****Quantiles**

100.0%	maximum	86.7
99.5%		86.7
97.5%		86.7
90.0%		11.4
75.0%	quartile	6.2
50.0%	median	-1.4
25.0%	quartile	-6.1
10.0%		-14.2
2.5%		-33.5
0.5%		-33.5
0.0%	minimum	-33.5

Summary Statistics

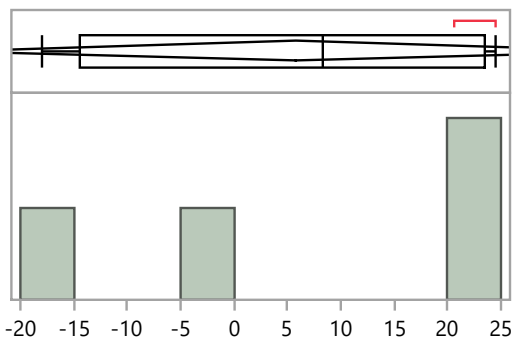
Mean	0.6
Std Dev	17.7
Std Err Mean	2.9
Upper 95% Mean	6.5
Lower 95% Mean	-5.3
N	37.0

Distributions Analyte_Detection=Iron-55 Gamma Spectrometry**Bias****Quantiles**

100.0%	maximum	-20.3
99.5%		-20.3
97.5%		-20.3
90.0%		-20.3
75.0%	quartile	-20.3
50.0%	median	-20.3
25.0%	quartile	-20.3
10.0%		-20.3
2.5%		-20.3
0.5%		-20.3
0.0%	minimum	-20.3

Summary Statistics

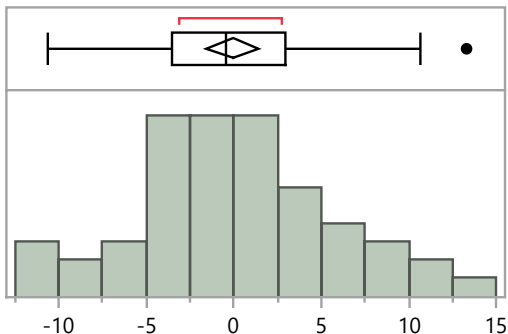
Mean	-20.3
Std Dev	.
Std Err Mean	.
Upper 95% Mean	.
Lower 95% Mean	.
N	1.0

Distributions Analyte_Detection=Iron-55 Liquid Scintillation Counter**Bias****Quantiles**

100.0%	maximum	24.5
99.5%		24.5
97.5%		24.5
90.0%		24.5
75.0%	quartile	23.5
50.0%	median	8.4
25.0%	quartile	-14.4
10.0%		-17.9
2.5%		-17.9
0.5%		-17.9
0.0%	minimum	-17.9

Summary Statistics

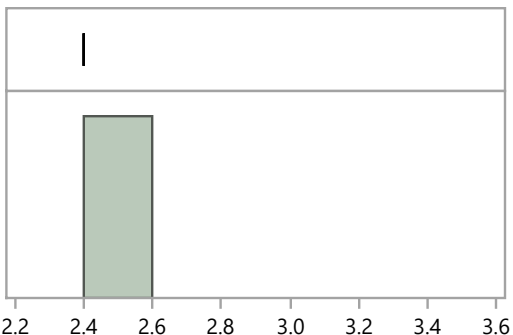
Mean	5.8
Std Dev	20.2
Std Err Mean	10.1
Upper 95% Mean	38.0
Lower 95% Mean	-26.3
N	4.0

MaW53 Distribution by Detection Method**Distributions Analyte_Detection=Manganese-54 Gamma Spectrometry****Bias****Quantiles**

100.0%	maximum	13.3
99.5%		13.3
97.5%		12.3
90.0%		7.9
75.0%	quartile	2.9
50.0%	median	-0.4
25.0%	quartile	-3.6
10.0%		-7.9
2.5%		-10.5
0.5%		-10.6
0.0%	minimum	-10.6

Summary Statistics

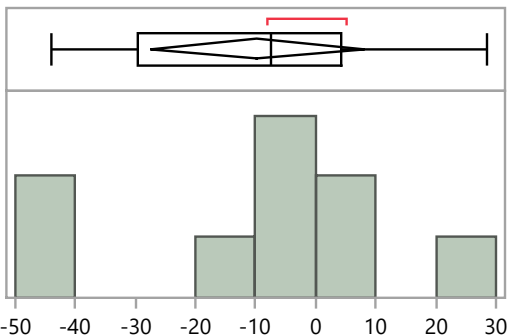
Mean	-0.1
Std Dev	5.5
Std Err Mean	0.7
Upper 95% Mean	1.4
Lower 95% Mean	-1.6
N	54.0

Distributions Analyte_Detection=Manganese-54 Liquid Scintillation Counter**Bias****Quantiles**

100.0%	maximum	2.4
99.5%		2.4
97.5%		2.4
90.0%		2.4
75.0%	quartile	2.4
50.0%	median	2.4
25.0%	quartile	2.4
10.0%		2.4
2.5%		2.4
0.5%		2.4
0.0%	minimum	2.4

Summary Statistics

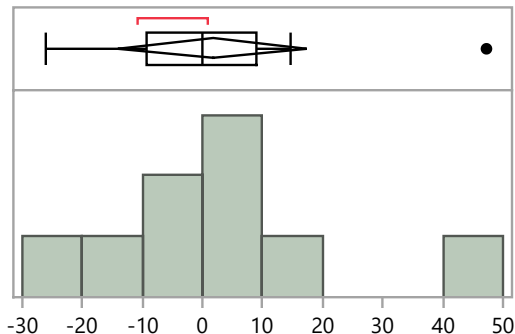
Mean	2.4
Std Dev	.
Std Err Mean	.
Upper 95% Mean	.
Lower 95% Mean	.
N	1.0

Distributions Analyte_Detection=Nickel-63 Liquid Scintillation Counter**Bias****Quantiles**

100.0%	maximum	28.4
99.5%		28.4
97.5%		28.4
90.0%		28.4
75.0%	quartile	4.2
50.0%	median	-7.6
25.0%	quartile	-29.6
10.0%		-44.0
2.5%		-44.0
0.5%		-44.0
0.0%	minimum	-44.0

Summary Statistics

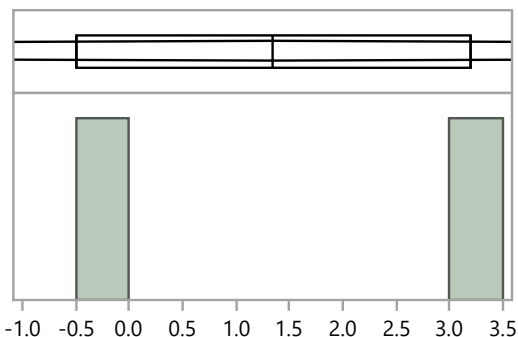
Mean	-9.7
Std Dev	23.0
Std Err Mean	7.7
Upper 95% Mean	8.0
Lower 95% Mean	-27.4
N	9.0

MaW53 Distribution by Detection Method**Distributions Analyte_Detection=Radium-226 Alpha Spectrometry****Bias****Quantiles**

100.0%	maximum	47.2
99.5%		47.2
97.5%		47.2
90.0%		47.2
75.0%	quartile	9.1
50.0%	median	0.0
25.0%	quartile	-9.5
10.0%		-26.0
2.5%		-26.0
0.5%		-26.0
0.0%	minimum	-26.0

Summary Statistics

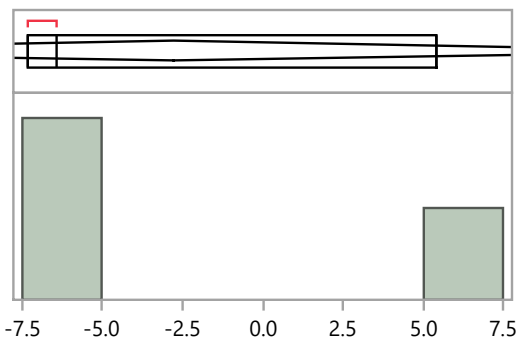
Mean	1.7
Std Dev	20.4
Std Err Mean	6.8
Upper 95% Mean	17.4
Lower 95% Mean	-14.0
N	9.0

Distributions Analyte_Detection=Radium-226 Gamma Spectrometry**Bias****Quantiles**

100.0%	maximum	3.2
99.5%		3.2
97.5%		3.2
90.0%		3.2
75.0%	quartile	3.2
50.0%	median	1.4
25.0%	quartile	-0.5
10.0%		-0.5
2.5%		-0.5
0.5%		-0.5
0.0%	minimum	-0.5

Summary Statistics

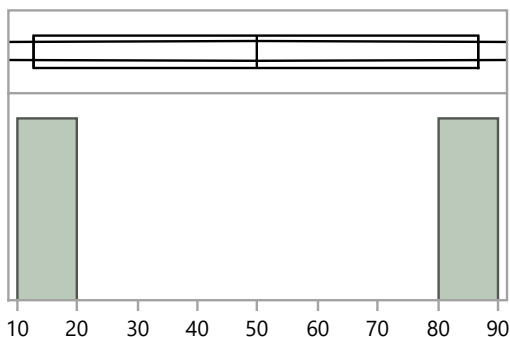
Mean	1.4
Std Dev	2.6
Std Err Mean	1.9
Upper 95% Mean	24.9
Lower 95% Mean	-22.2
N	2.0

Distributions Analyte_Detection=Radium-226 Gas Flow Proportional Counter**Bias****Quantiles**

100.0%	maximum	5.4
99.5%		5.4
97.5%		5.4
90.0%		5.4
75.0%	quartile	5.4
50.0%	median	-6.4
25.0%	quartile	-7.3
10.0%		-7.3
2.5%		-7.3
0.5%		-7.3
0.0%	minimum	-7.3

Summary Statistics

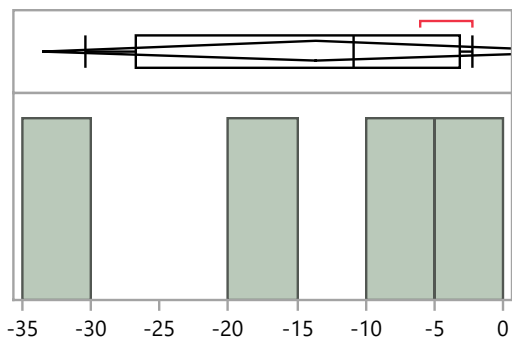
Mean	-2.8
Std Dev	7.1
Std Err Mean	4.1
Upper 95% Mean	14.8
Lower 95% Mean	-20.4
N	3.0

MaW53 Distribution by Detection Method**Distributions Analyte_Detection=Radium-226 Gross Alpha/Beta - 2 pi gas flow proportional counter****Bias****Quantiles**

100.0%	maximum	86.7
99.5%		86.7
97.5%		86.7
90.0%		86.7
75.0%	quartile	86.7
50.0%	median	49.8
25.0%	quartile	12.8
10.0%		12.8
2.5%		12.8
0.5%		12.8
0.0%	minimum	12.8

Summary Statistics

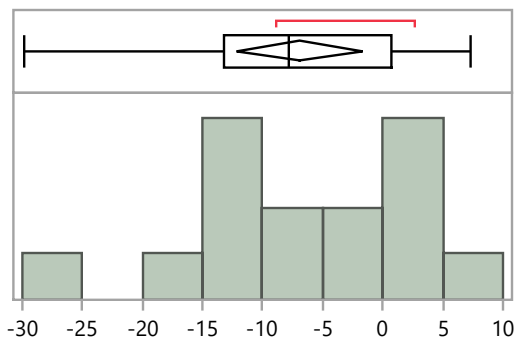
Mean	49.8
Std Dev	52.3
Std Err Mean	37.0
Upper 95% Mean	519.2
Lower 95% Mean	-419.7
N	2.0

Distributions Analyte_Detection=Radium-226 Other**Bias****Quantiles**

100.0%	maximum	-2.2
99.5%		-2.2
97.5%		-2.2
90.0%		-2.2
75.0%	quartile	-3.2
50.0%	median	-10.9
25.0%	quartile	-26.7
10.0%		-30.4
2.5%		-30.4
0.5%		-30.4
0.0%	minimum	-30.4

Summary Statistics

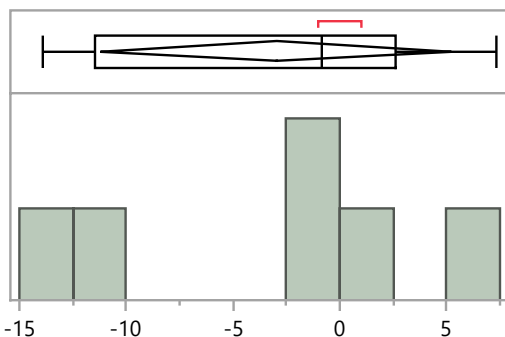
Mean	-13.6
Std Dev	12.6
Std Err Mean	6.3
Upper 95% Mean	6.4
Lower 95% Mean	-33.6
N	4.0

Distributions Analyte_Detection=Strontium-90 Gas Flow Proportional Counter**Bias****Quantiles**

100.0%	maximum	7.3
99.5%		7.3
97.5%		7.3
90.0%		4.5
75.0%	quartile	0.7
50.0%	median	-7.9
25.0%	quartile	-13.2
10.0%		-22.0
2.5%		-29.8
0.5%		-29.8
0.0%	minimum	-29.8

Summary Statistics

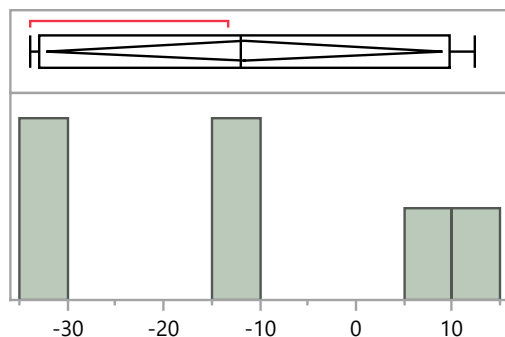
Mean	-6.9
Std Dev	9.5
Std Err Mean	2.5
Upper 95% Mean	-1.6
Lower 95% Mean	-12.2
N	15.0

MaW53 Distribution by Detection Method**Distributions Analyte_Detection=Strontium-90 Gross Alpha/Beta - 2 pi gas flow proportional counter****Bias****Quantiles**

100.0%	maximum	7.3
99.5%		7.3
97.5%		7.3
90.0%		7.3
75.0%	quartile	2.6
50.0%	median	-0.9
25.0%	quartile	-11.4
10.0%		-13.9
2.5%		-13.9
0.5%		-13.9
0.0%	minimum	-13.9

Summary Statistics

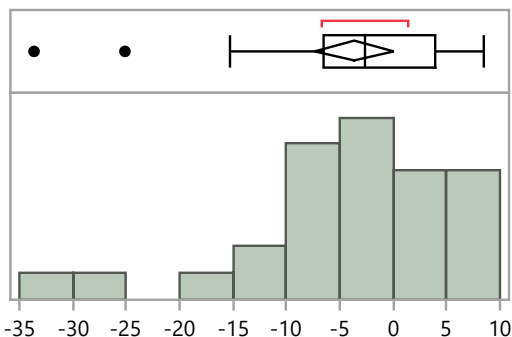
Mean	-3.0
Std Dev	7.8
Std Err Mean	3.2
Upper 95% Mean	5.3
Lower 95% Mean	-11.2
N	6.0

Distributions Analyte_Detection=Strontium-90 Liquid Scintillation Counter**Bias****Quantiles**

100.0%	maximum	12.3
99.5%		12.3
97.5%		12.3
90.0%		12.3
75.0%	quartile	9.8
50.0%	median	-12.1
25.0%	quartile	-32.8
10.0%		-33.8
2.5%		-33.8
0.5%		-33.8
0.0%	minimum	-33.8

Summary Statistics

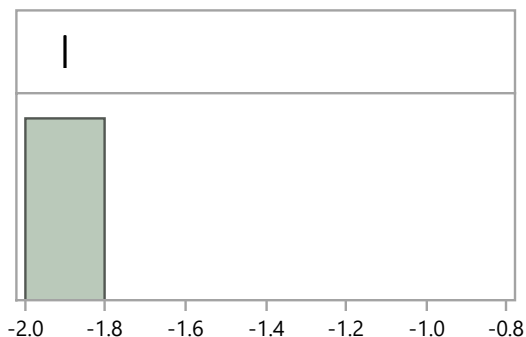
Mean	-11.5
Std Dev	19.6
Std Err Mean	8.0
Upper 95% Mean	9.1
Lower 95% Mean	-32.1
N	6.0

Distributions Analyte_Detection=Uranium-234 Alpha Spectrometry**Bias****Quantiles**

100.0%	maximum	8.5
99.5%		8.5
97.5%		8.5
90.0%		8.0
75.0%	quartile	3.9
50.0%	median	-2.7
25.0%	quartile	-6.6
10.0%		-16.3
2.5%		-33.6
0.5%		-33.6
0.0%	minimum	-33.6

Summary Statistics

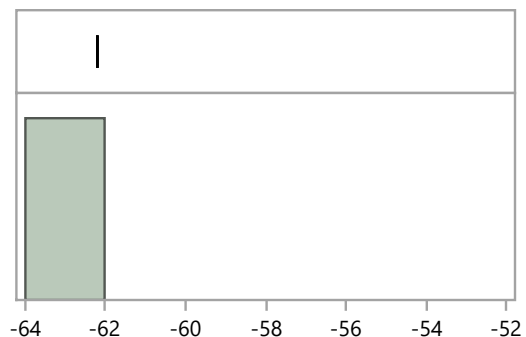
Mean	-3.7
Std Dev	9.7
Std Err Mean	1.8
Upper 95% Mean	0.1
Lower 95% Mean	-7.4
N	28.0

MaW53 Distribution by Detection Method**Distributions Analyte_Detection=Uranium-234 Gas Flow Proportional Counter****Bias****Quantiles**

100.0%	maximum	-1.9
99.5%		-1.9
97.5%		-1.9
90.0%		-1.9
75.0%	quartile	-1.9
50.0%	median	-1.9
25.0%	quartile	-1.9
10.0%		-1.9
2.5%		-1.9
0.5%		-1.9
0.0%	minimum	-1.9

Summary Statistics

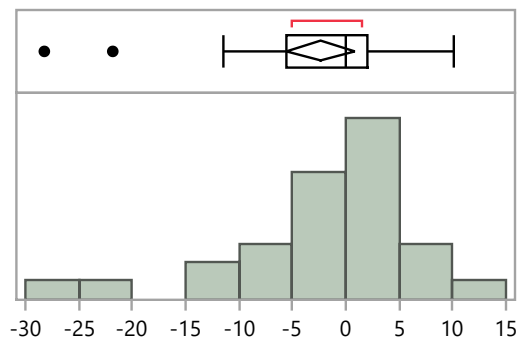
Mean	-1.9
Std Dev	.
Std Err Mean	.
Upper 95% Mean	.
Lower 95% Mean	.
N	1.0

Distributions Analyte_Detection=Uranium-234 Inductively Coupled Plasma Mass Spectrometry**Bias****Quantiles**

100.0%	maximum	-62.2
99.5%		-62.2
97.5%		-62.2
90.0%		-62.2
75.0%	quartile	-62.2
50.0%	median	-62.2
25.0%	quartile	-62.2
10.0%		-62.2
2.5%		-62.2
0.5%		-62.2
0.0%	minimum	-62.2

Summary Statistics

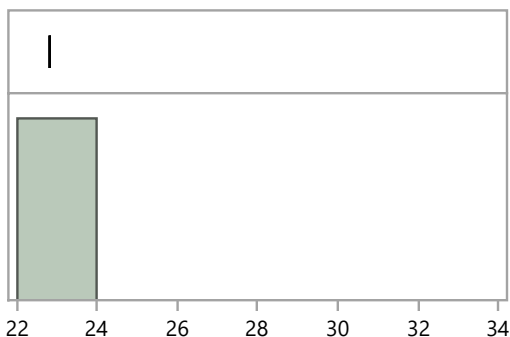
Mean	-62.2
Std Dev	.
Std Err Mean	.
Upper 95% Mean	.
Lower 95% Mean	.
N	1.0

Distributions Analyte_Detection=Uranium-238 Alpha Spectrometry**Bias****Quantiles**

100.0%	maximum	10.1
99.5%		10.1
97.5%		10.1
90.0%		5.9
75.0%	quartile	2.0
50.0%	median	-0.1
25.0%	quartile	-5.5
10.0%		-12.4
2.5%		-28.2
0.5%		-28.2
0.0%	minimum	-28.2

Summary Statistics

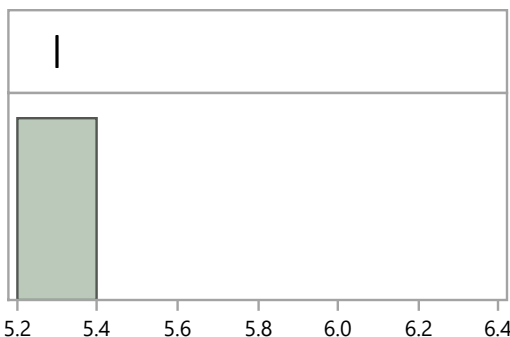
Mean	-2.4
Std Dev	8.4
Std Err Mean	1.6
Upper 95% Mean	0.9
Lower 95% Mean	-5.6
N	28.0

MaW53 Distribution by Detection Method**Distributions Analyte_Detection=Uranium-238 Gamma Spectrometry****Bias****Quantiles**

100.0%	maximum	22.8
99.5%		22.8
97.5%		22.8
90.0%		22.8
75.0%	quartile	22.8
50.0%	median	22.8
25.0%	quartile	22.8
10.0%		22.8
2.5%		22.8
0.5%		22.8
0.0%	minimum	22.8

Summary Statistics

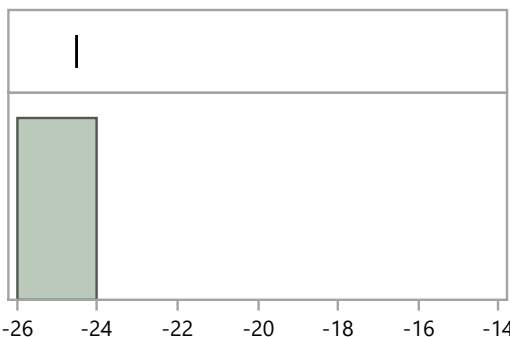
Mean	22.8
Std Dev	.
Std Err Mean	.
Upper 95% Mean	.
Lower 95% Mean	.
N	1.0

Distributions Analyte_Detection=Uranium-238 Gas Flow Proportional Counter**Bias****Quantiles**

100.0%	maximum	5.3
99.5%		5.3
97.5%		5.3
90.0%		5.3
75.0%	quartile	5.3
50.0%	median	5.3
25.0%	quartile	5.3
10.0%		5.3
2.5%		5.3
0.5%		5.3
0.0%	minimum	5.3

Summary Statistics

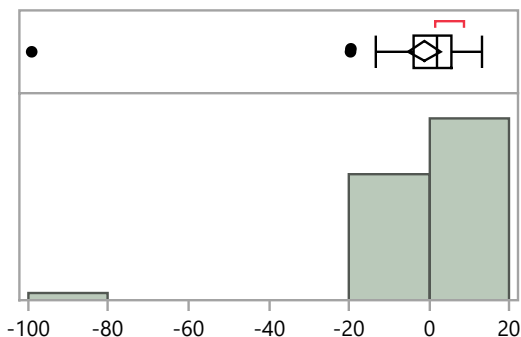
Mean	5.3
Std Dev	.
Std Err Mean	.
Upper 95% Mean	.
Lower 95% Mean	.
N	1.0

Distributions Analyte_Detection=Uranium-238 Inductively Coupled Plasma Mass Spectrometry**Bias****Quantiles**

100.0%	maximum	-24.5
99.5%		-24.5
97.5%		-24.5
90.0%		-24.5
75.0%	quartile	-24.5
50.0%	median	-24.5
25.0%	quartile	-24.5
10.0%		-24.5
2.5%		-24.5
0.5%		-24.5
0.0%	minimum	-24.5

Summary Statistics

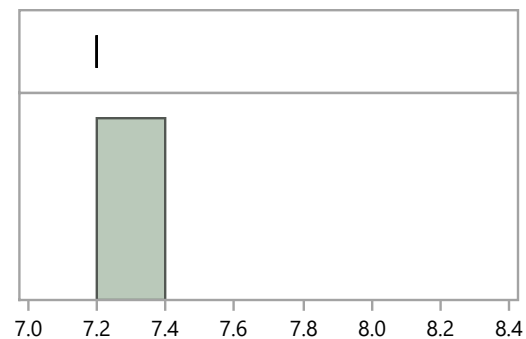
Mean	-24.5
Std Dev	.
Std Err Mean	.
Upper 95% Mean	.
Lower 95% Mean	.
N	1.0

MaW53 Distribution by Detection Method**Distributions Analyte_Detection=Zinc-65 Gamma Spectrometry****Bias****Quantiles**

100.0%	maximum	13.0
99.5%		13.0
97.5%		12.1
90.0%		8.3
75.0%	quartile	5.6
50.0%	median	1.8
25.0%	quartile	-3.9
10.0%		-8.7
2.5%		-67.3
0.5%		-99.1
0.0%	minimum	-99.1

Summary Statistics

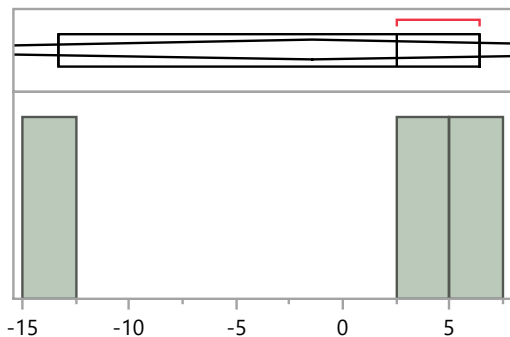
Mean	-1.3
Std Dev	15.1
Std Err Mean	2.0
Upper 95% Mean	2.8
Lower 95% Mean	-5.4
N	55.0

Distributions Analyte_Detection=Zinc-65 Liquid Scintillation Counter**Bias****Quantiles**

100.0%	maximum	7.2
99.5%		7.2
97.5%		7.2
90.0%		7.2
75.0%	quartile	7.2
50.0%	median	7.2
25.0%	quartile	7.2
10.0%		7.2
2.5%		7.2
0.5%		7.2
0.0%	minimum	7.2

Summary Statistics

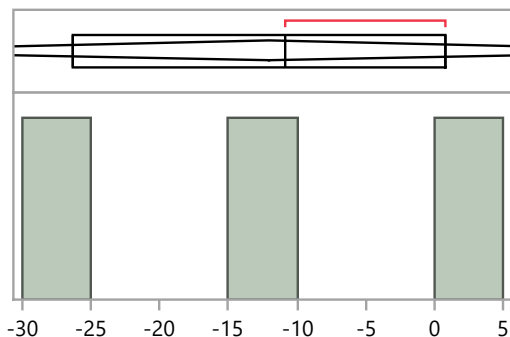
Mean	7.2
Std Dev	.
Std Err Mean	.
Upper 95% Mean	.
Lower 95% Mean	.
N	1.0

MaW53 Distribution by Preparation Method**Distributions Analyte_Method=Americium-241 Acid dissolution with hydrofluoric acid****Bias****Quantiles**

100.0%	maximum	6.4
99.5%		6.4
97.5%		6.4
90.0%		6.4
75.0%	quartile	6.4
50.0%	median	2.5
25.0%	quartile	-13.3
10.0%		-13.3
2.5%		-13.3
0.5%		-13.3
0.0%	minimum	-13.3

Summary Statistics

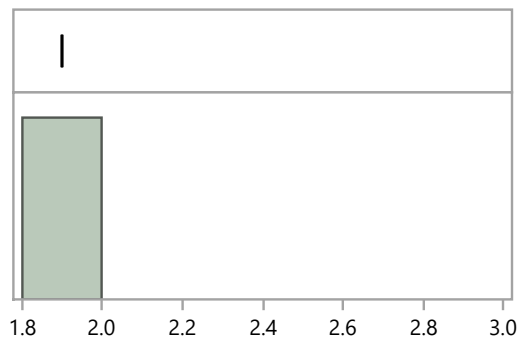
Mean	-1.5
Std Dev	10.4
Std Err Mean	6.0
Upper 95% Mean	24.4
Lower 95% Mean	-27.4
N	3.0

Distributions Analyte_Method=Americium-241 Coprecipitation, acidified**Bias****Quantiles**

100.0%	maximum	0.8
99.5%		0.8
97.5%		0.8
90.0%		0.8
75.0%	quartile	0.8
50.0%	median	-10.8
25.0%	quartile	-26.3
10.0%		-26.3
2.5%		-26.3
0.5%		-26.3
0.0%	minimum	-26.3

Summary Statistics

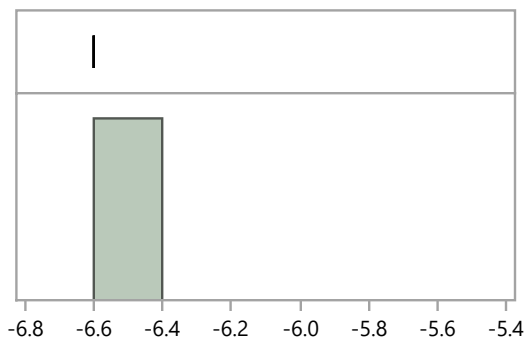
Mean	-12.1
Std Dev	13.6
Std Err Mean	7.9
Upper 95% Mean	21.7
Lower 95% Mean	-45.9
N	3.0

Distributions Analyte_Method=Americium-241 Coprecipitation, straight**Bias****Quantiles**

100.0%	maximum	1.9
99.5%		1.9
97.5%		1.9
90.0%		1.9
75.0%	quartile	1.9
50.0%	median	1.9
25.0%	quartile	1.9
10.0%		1.9
2.5%		1.9
0.5%		1.9
0.0%	minimum	1.9

Summary Statistics

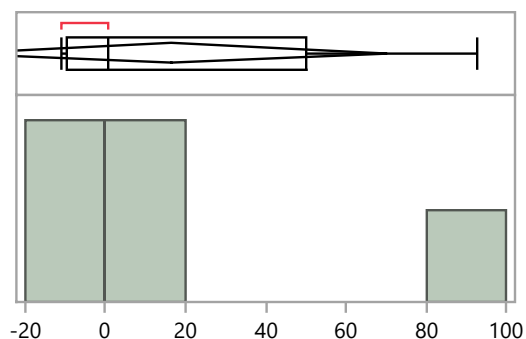
Mean	1.9
Std Dev	.
Std Err Mean	.
Upper 95% Mean	.
Lower 95% Mean	.
N	1.0

MaW53 Distribution by Preparation Method**Distributions Analyte_Method=Americium-241 EPA 907, Actinide Elements, 600/4/80-032****Bias****Quantiles**

100.0%	maximum	-6.6
99.5%		-6.6
97.5%		-6.6
90.0%		-6.6
75.0%	quartile	-6.6
50.0%	median	-6.6
25.0%	quartile	-6.6
10.0%		-6.6
2.5%		-6.6
0.5%		-6.6
0.0%	minimum	-6.6

Summary Statistics

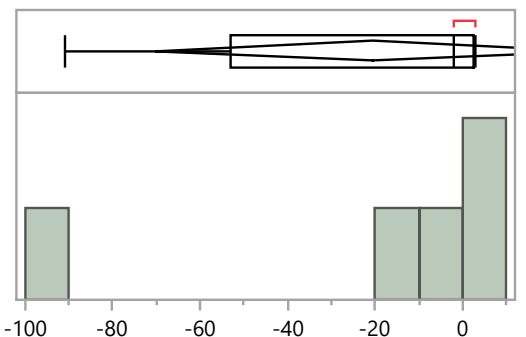
Mean	-6.6
Std Dev	.
Std Err Mean	.
Upper 95% Mean	.
Lower 95% Mean	.
N	1.0

Distributions Analyte_Method=Americium-241 Evaporation, acidified**Bias****Quantiles**

100.0%	maximum	92.8
99.5%		92.8
97.5%		92.8
90.0%		92.8
75.0%	quartile	50.3
50.0%	median	0.6
25.0%	quartile	-9.4
10.0%		-10.8
2.5%		-10.8
0.5%		-10.8
0.0%	minimum	-10.8

Summary Statistics

Mean	16.5
Std Dev	43.3
Std Err Mean	19.4
Upper 95% Mean	70.2
Lower 95% Mean	-37.3
N	5.0

Distributions Analyte_Method=Americium-241 Ion Exchange Chromatography / Ion Chromatography**Bias****Quantiles**

100.0%	maximum	2.8
99.5%		2.8
97.5%		2.8
90.0%		2.8
75.0%	quartile	2.7
50.0%	median	-1.9
25.0%	quartile	-53.1
10.0%		-90.9
2.5%		-90.9
0.5%		-90.9
0.0%	minimum	-90.9

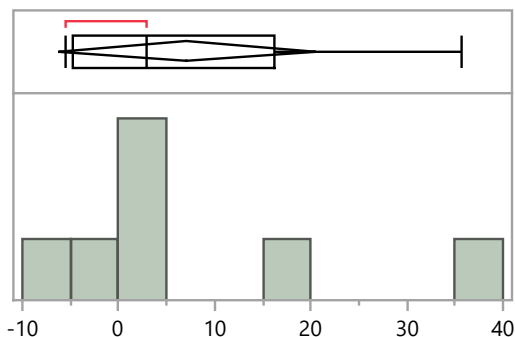
Summary Statistics

Mean	-20.5
Std Dev	40.0
Std Err Mean	17.9
Upper 95% Mean	29.1
Lower 95% Mean	-70.2
N	5.0

MaW53 Distribution by Preparation Method

Distributions Analyte_Method=Americium-241 No preparation - analyzed as received

Bias



Quantiles

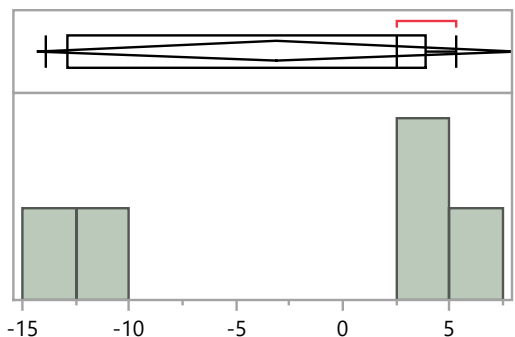
100.0%	maximum	35.7
99.5%		35.7
97.5%		35.7
90.0%		35.7
75.0%	quartile	16.2
50.0%	median	3.0
25.0%	quartile	-4.7
10.0%		-5.5
2.5%		-5.5
0.5%		-5.5
0.0%	minimum	-5.5

Summary Statistics

Mean	7.1
Std Dev	14.5
Std Err Mean	5.5
Upper 95% Mean	20.5
Lower 95% Mean	-6.3
N	7.0

Distributions Analyte_Method=Americium-241 Other

Bias



Quantiles

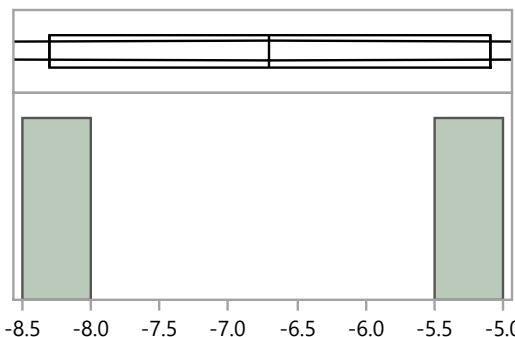
100.0%	maximum	5.3
99.5%		5.3
97.5%		5.3
90.0%		5.3
75.0%	quartile	3.9
50.0%	median	2.5
25.0%	quartile	-12.9
10.0%		-13.9
2.5%		-13.9
0.5%		-13.9
0.0%	minimum	-13.9

Summary Statistics

Mean	-3.1
Std Dev	9.0
Std Err Mean	4.0
Upper 95% Mean	8.1
Lower 95% Mean	-14.3
N	5.0

Distributions Analyte_Method=Americium-241 Total dissolution by fusion

Bias

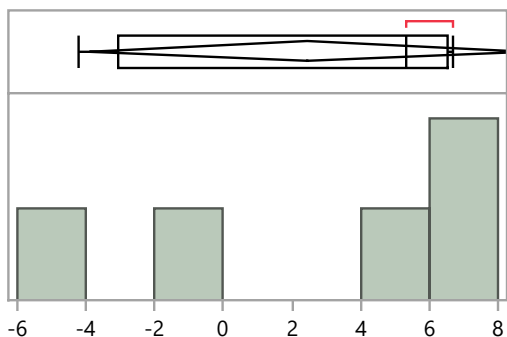


Quantiles

100.0%	maximum	-5.1
99.5%		-5.1
97.5%		-5.1
90.0%		-5.1
75.0%	quartile	-5.1
50.0%	median	-6.7
25.0%	quartile	-8.3
10.0%		-8.3
2.5%		-8.3
0.5%		-8.3
0.0%	minimum	-8.3

Summary Statistics

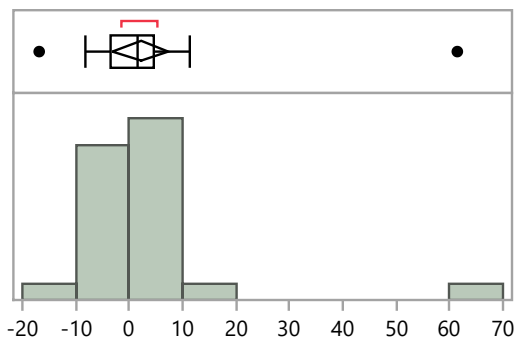
Mean	-6.7
Std Dev	2.3
Std Err Mean	1.6
Upper 95% Mean	13.6
Lower 95% Mean	-27.0
N	2.0

MaW53 Distribution by Preparation Method**Distributions Analyte_Method=Cerium-139 EPA 901.1, Gamma Emitting, 600/4-80-032****Bias****Quantiles**

100.0%	maximum	6.7
99.5%		6.7
97.5%		6.7
90.0%		6.7
75.0%	quartile	6.6
50.0%	median	5.3
25.0%	quartile	-3.1
10.0%		-4.2
2.5%		-4.2
0.5%		-4.2
0.0%	minimum	-4.2

Summary Statistics

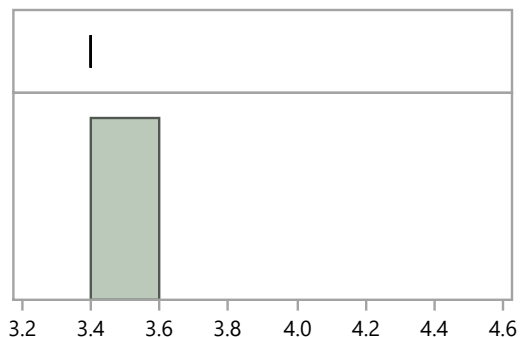
Mean	2.5
Std Dev	5.1
Std Err Mean	2.3
Upper 95% Mean	8.8
Lower 95% Mean	-3.9
N	5.0

Distributions Analyte_Method=Cerium-139 No preparation - analyzed as received**Bias****Quantiles**

100.0%	maximum	61.4
99.5%		61.4
97.5%		61.4
90.0%		10.1
75.0%	quartile	4.5
50.0%	median	1.7
25.0%	quartile	-3.5
10.0%		-7.0
2.5%		-16.8
0.5%		-16.8
0.0%	minimum	-16.8

Summary Statistics

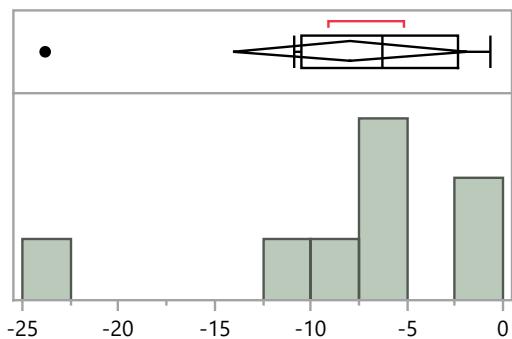
Mean	2.2
Std Dev	13.2
Std Err Mean	2.5
Upper 95% Mean	7.4
Lower 95% Mean	-3.0
N	27.0

Distributions Analyte_Method=Cesium-134 Coprecipitation, acidified**Bias****Quantiles**

100.0%	maximum	3.4
99.5%		3.4
97.5%		3.4
90.0%		3.4
75.0%	quartile	3.4
50.0%	median	3.4
25.0%	quartile	3.4
10.0%		3.4
2.5%		3.4
0.5%		3.4
0.0%	minimum	3.4

Summary Statistics

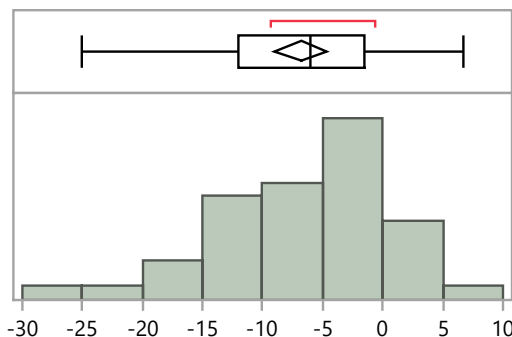
Mean	3.4
Std Dev	.
Std Err Mean	.
Upper 95% Mean	.
Lower 95% Mean	.
N	1.0

MaW53 Distribution by Preparation Method**Distributions Analyte_Method=Cesium-134 EPA 901.1, Gamma Emitting, 600/4-80-032****Bias****Quantiles**

100.0%	maximum	-0.7
99.5%		-0.7
97.5%		-0.7
90.0%		-0.7
75.0%	quartile	-2.4
50.0%	median	-6.3
25.0%	quartile	-10.5
10.0%		-23.8
2.5%		-23.8
0.5%		-23.8
0.0%	minimum	-23.8

Summary Statistics

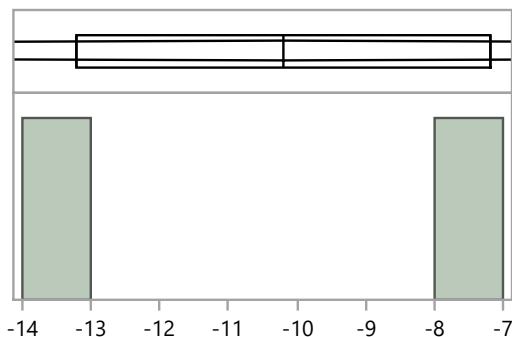
Mean	-8.0
Std Dev	7.3
Std Err Mean	2.6
Upper 95% Mean	-1.9
Lower 95% Mean	-14.0
N	8.0

Distributions Analyte_Method=Cesium-134 No preparation - analyzed as received**Bias****Quantiles**

100.0%	maximum	6.7
99.5%		6.7
97.5%		6.5
90.0%		1.6
75.0%	quartile	-1.5
50.0%	median	-6.1
25.0%	quartile	-12.0
10.0%		-17.5
2.5%		-24.7
0.5%		-25.1
0.0%	minimum	-25.1

Summary Statistics

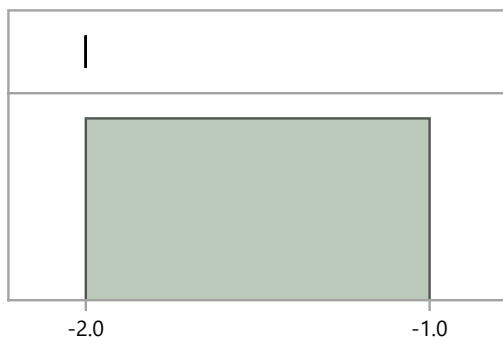
Mean	-6.8
Std Dev	7.2
Std Err Mean	1.1
Upper 95% Mean	-4.6
Lower 95% Mean	-9.1
N	43.0

Distributions Analyte_Method=Cesium-134 Other**Bias****Quantiles**

100.0%	maximum	-7.2
99.5%		-7.2
97.5%		-7.2
90.0%		-7.2
75.0%	quartile	-7.2
50.0%	median	-10.2
25.0%	quartile	-13.2
10.0%		-13.2
2.5%		-13.2
0.5%		-13.2
0.0%	minimum	-13.2

Summary Statistics

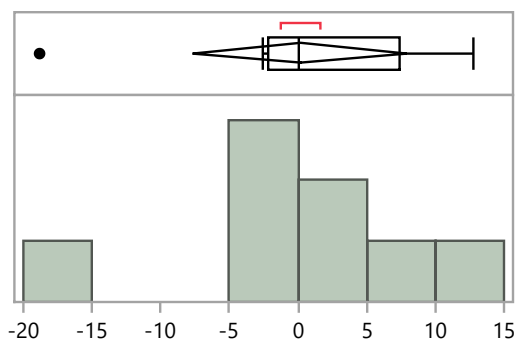
Mean	-10.2
Std Dev	4.2
Std Err Mean	3.0
Upper 95% Mean	27.9
Lower 95% Mean	-48.3
N	2.0

MaW53 Distribution by Preparation Method**Distributions Analyte_Method=Cesium-137 Coprecipitation, acidified****Bias****Quantiles**

100.0%	maximum	-2.0
99.5%		-2.0
97.5%		-2.0
90.0%		-2.0
75.0%	quartile	-2.0
50.0%	median	-2.0
25.0%	quartile	-2.0
10.0%		-2.0
2.5%		-2.0
0.5%		-2.0
0.0%	minimum	-2.0

Summary Statistics

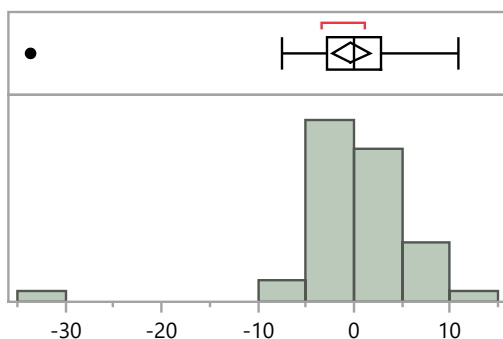
Mean	-2.0
Std Dev	.
Std Err Mean	.
Upper 95% Mean	.
Lower 95% Mean	.
N	1.0

Distributions Analyte_Method=Cesium-137 EPA 901.1, Gamma Emitting, 600/4-80-032**Bias****Quantiles**

100.0%	maximum	12.7
99.5%		12.7
97.5%		12.7
90.0%		12.7
75.0%	quartile	7.4
50.0%	median	0.1
25.0%	quartile	-2.2
10.0%		-18.8
2.5%		-18.8
0.5%		-18.8
0.0%	minimum	-18.8

Summary Statistics

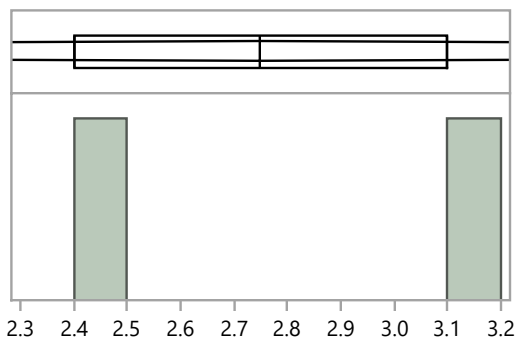
Mean	0.1
Std Dev	9.4
Std Err Mean	3.3
Upper 95% Mean	8.0
Lower 95% Mean	-7.7
N	8.0

Distributions Analyte_Method=Cesium-137 No preparation - analyzed as received**Bias****Quantiles**

100.0%	maximum	10.9
99.5%		10.9
97.5%		10.7
90.0%		5.9
75.0%	quartile	2.8
50.0%	median	0.0
25.0%	quartile	-2.8
10.0%		-4.6
2.5%		-29.7
0.5%		-33.6
0.0%	minimum	-33.6

Summary Statistics

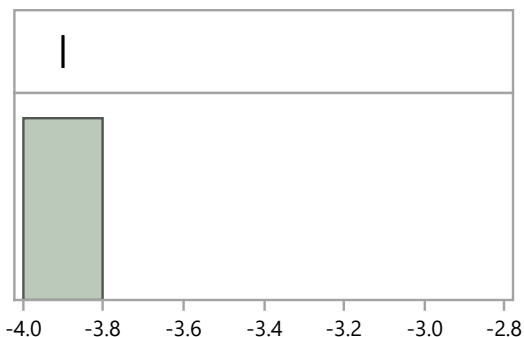
Mean	-0.3
Std Dev	6.4
Std Err Mean	1.0
Upper 95% Mean	1.6
Lower 95% Mean	-2.3
N	45.0

MaW53 Distribution by Preparation Method**Distributions Analyte_Method=Cesium-137 Other****Bias****Quantiles**

100.0%	maximum	3.1
99.5%		3.1
97.5%		3.1
90.0%		3.1
75.0%	quartile	3.1
50.0%	median	2.8
25.0%	quartile	2.4
10.0%		2.4
2.5%		2.4
0.5%		2.4
0.0%	minimum	2.4

Summary Statistics

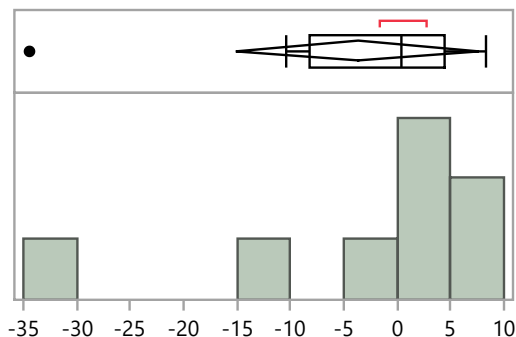
Mean	2.8
Std Dev	0.5
Std Err Mean	0.4
Upper 95% Mean	7.2
Lower 95% Mean	-1.7
N	2.0

Distributions Analyte_Method=Cobalt-60 Coprecipitation, acidified**Bias****Quantiles**

100.0%	maximum	-3.9
99.5%		-3.9
97.5%		-3.9
90.0%		-3.9
75.0%	quartile	-3.9
50.0%	median	-3.9
25.0%	quartile	-3.9
10.0%		-3.9
2.5%		-3.9
0.5%		-3.9
0.0%	minimum	-3.9

Summary Statistics

Mean	-3.9
Std Dev	.
Std Err Mean	.
Upper 95% Mean	.
Lower 95% Mean	.
N	1.0

Distributions Analyte_Method=Cobalt-60 EPA 901.1, Gamma Emitting, 600/4-80-032**Bias****Quantiles**

100.0%	maximum	8.3
99.5%		8.3
97.5%		8.3
90.0%		8.3
75.0%	quartile	4.5
50.0%	median	0.4
25.0%	quartile	-8.2
10.0%		-34.4
2.5%		-34.4
0.5%		-34.4
0.0%	minimum	-34.4

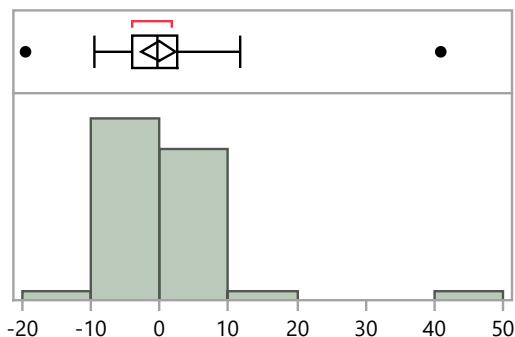
Summary Statistics

Mean	-3.7
Std Dev	13.6
Std Err Mean	4.8
Upper 95% Mean	7.6
Lower 95% Mean	-15.0
N	8.0

MaW53 Distribution by Preparation Method

Distributions Analyte_Method=Cobalt-60 No preparation - analyzed as received

Bias



Quantiles

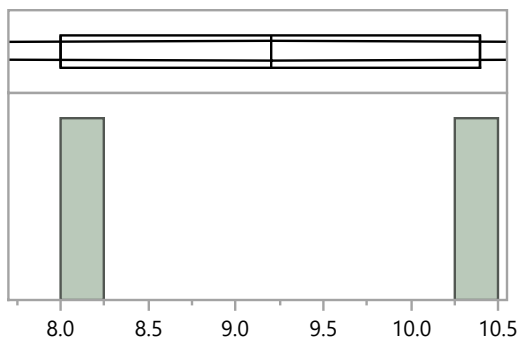
100.0%	maximum	40.9
99.5%		40.9
97.5%		36.5
90.0%		5.7
75.0%	quartile	2.5
50.0%	median	-0.4
25.0%	quartile	-4.1
10.0%		-7.8
2.5%		-18.0
0.5%		-19.5
0.0%	minimum	-19.5

Summary Statistics

Mean	-0.1
Std Dev	8.2
Std Err Mean	1.2
Upper 95% Mean	2.4
Lower 95% Mean	-2.6
N	45.0

Distributions Analyte_Method=Cobalt-60 Other

Bias



Quantiles

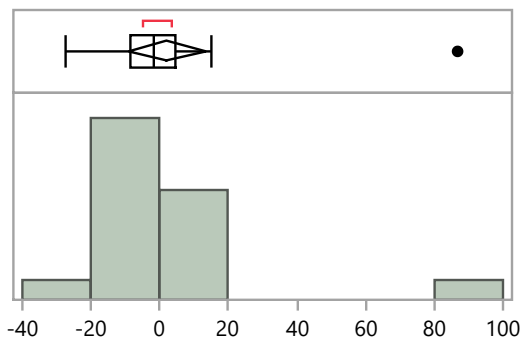
100.0%	maximum	10.4
99.5%		10.4
97.5%		10.4
90.0%		10.4
75.0%	quartile	10.4
50.0%	median	9.2
25.0%	quartile	8.0
10.0%		8.0
2.5%		8.0
0.5%		8.0
0.0%	minimum	8.0

Summary Statistics

Mean	9.2
Std Dev	1.7
Std Err Mean	1.2
Upper 95% Mean	24.4
Lower 95% Mean	-6.0
N	2.0

Distributions Analyte_Method=Hydrogen-3 Distillation

Bias

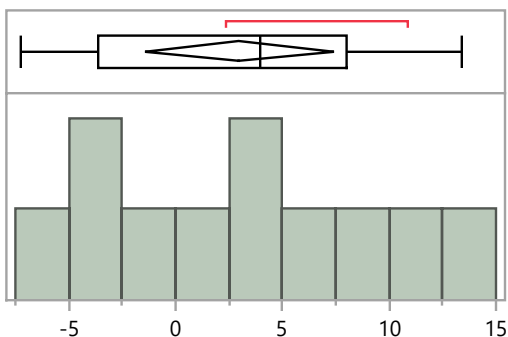


Quantiles

100.0%	maximum	86.7
99.5%		86.7
97.5%		86.7
90.0%		22.4
75.0%	quartile	4.4
50.0%	median	-1.7
25.0%	quartile	-8.4
10.0%		-14.5
2.5%		-27.5
0.5%		-27.5
0.0%	minimum	-27.5

Summary Statistics

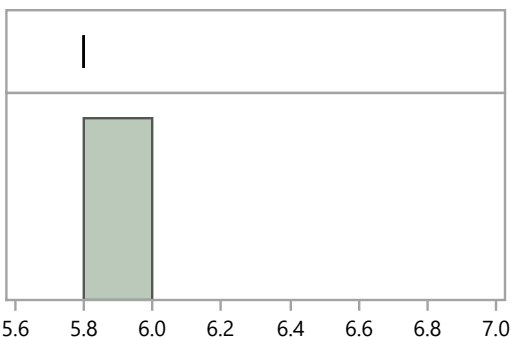
Mean	2.2
Std Dev	23.1
Std Err Mean	5.4
Upper 95% Mean	13.7
Lower 95% Mean	-9.3
N	18.0

MaW53 Distribution by Preparation Method**Distributions Analyte_Method=Hydrogen-3 EPA 906, Tritium, 600/4/80-032****Bias****Quantiles**

100.0%	maximum	13.4
99.5%		13.4
97.5%		13.4
90.0%		12.9
75.0%	quartile	8.0
50.0%	median	4.0
25.0%	quartile	-3.6
10.0%		-6.7
2.5%		-7.2
0.5%		-7.2
0.0%	minimum	-7.2

Summary Statistics

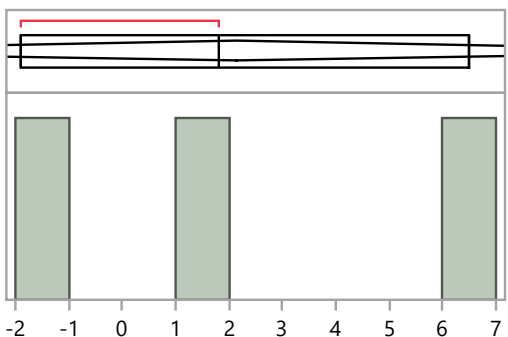
Mean	3.0
Std Dev	6.6
Std Err Mean	2.0
Upper 95% Mean	7.4
Lower 95% Mean	-1.5
N	11.0

Distributions Analyte_Method=Hydrogen-3 Evaporation, acidified**Bias****Quantiles**

100.0%	maximum	5.8
99.5%		5.8
97.5%		5.8
90.0%		5.8
75.0%	quartile	5.8
50.0%	median	5.8
25.0%	quartile	5.8
10.0%		5.8
2.5%		5.8
0.5%		5.8
0.0%	minimum	5.8

Summary Statistics

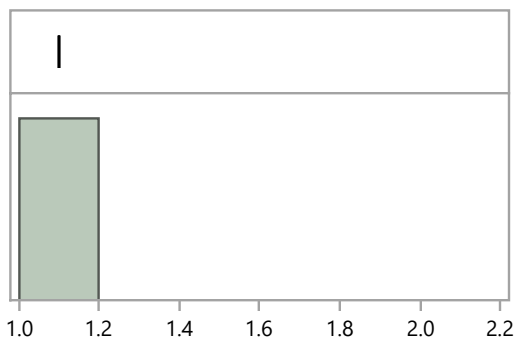
Mean	5.8
Std Dev	.
Std Err Mean	.
Upper 95% Mean	.
Lower 95% Mean	.
N	1.0

Distributions Analyte_Method=Hydrogen-3 Evaporation, straight**Bias****Quantiles**

100.0%	maximum	6.5
99.5%		6.5
97.5%		6.5
90.0%		6.5
75.0%	quartile	6.5
50.0%	median	1.8
25.0%	quartile	-1.9
10.0%		-1.9
2.5%		-1.9
0.5%		-1.9
0.0%	minimum	-1.9

Summary Statistics

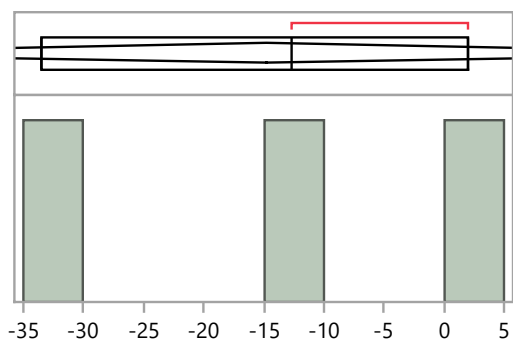
Mean	2.1
Std Dev	4.2
Std Err Mean	2.4
Upper 95% Mean	12.6
Lower 95% Mean	-8.3
N	3.0

MaW53 Distribution by Preparation Method**Distributions Analyte_Method=Hydrogen-3 Ion Exchange Chromatography / Ion Chromatography****Bias****Quantiles**

100.0%	maximum	1.1
99.5%		1.1
97.5%		1.1
90.0%		1.1
75.0%	quartile	1.1
50.0%	median	1.1
25.0%	quartile	1.1
10.0%		1.1
2.5%		1.1
0.5%		1.1
0.0%	minimum	1.1

Summary Statistics

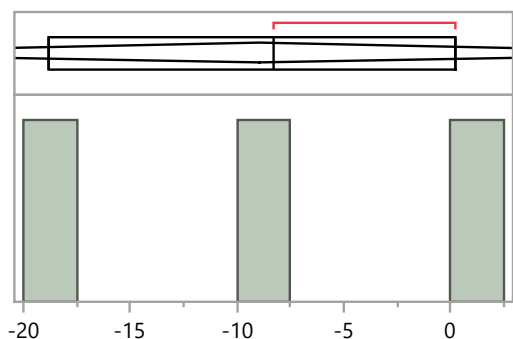
Mean	1.1
Std Dev	.
Std Err Mean	.
Upper 95% Mean	.
Lower 95% Mean	.
N	1.0

Distributions Analyte_Method=Hydrogen-3 No preparation - analyzed as received**Bias****Quantiles**

100.0%	maximum	2.0
99.5%		2.0
97.5%		2.0
90.0%		2.0
75.0%	quartile	2.0
50.0%	median	-12.7
25.0%	quartile	-33.5
10.0%		-33.5
2.5%		-33.5
0.5%		-33.5
0.0%	minimum	-33.5

Summary Statistics

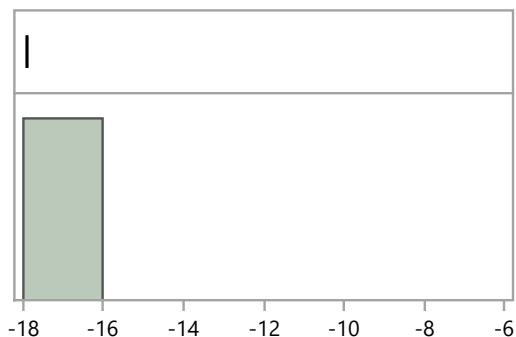
Mean	-14.7
Std Dev	17.8
Std Err Mean	10.3
Upper 95% Mean	29.6
Lower 95% Mean	-59.0
N	3.0

Distributions Analyte_Method=Hydrogen-3 Other**Bias****Quantiles**

100.0%	maximum	0.2
99.5%		0.2
97.5%		0.2
90.0%		0.2
75.0%	quartile	0.2
50.0%	median	-8.3
25.0%	quartile	-18.8
10.0%		-18.8
2.5%		-18.8
0.5%		-18.8
0.0%	minimum	-18.8

Summary Statistics

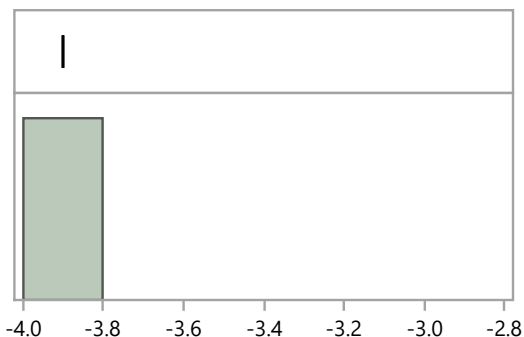
Mean	-9.0
Std Dev	9.5
Std Err Mean	5.5
Upper 95% Mean	14.7
Lower 95% Mean	-32.6
N	3.0

MaW53 Distribution by Preparation Method**Distributions Analyte_Method=Iron-55 Acid dissolution with hydrofluoric acid****Bias****Quantiles**

100.0%	maximum	-17.9
99.5%		-17.9
97.5%		-17.9
90.0%		-17.9
75.0%	quartile	-17.9
50.0%	median	-17.9
25.0%	quartile	-17.9
10.0%		-17.9
2.5%		-17.9
0.5%		-17.9
0.0%	minimum	-17.9

Summary Statistics

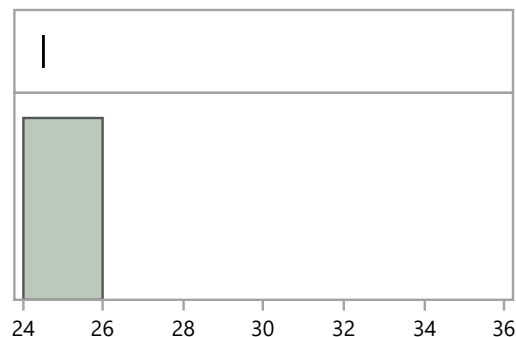
Mean	-17.9
Std Dev	.
Std Err Mean	.
Upper 95% Mean	.
Lower 95% Mean	.
N	1.0

Distributions Analyte_Method=Iron-55 Coprecipitation, straight**Bias****Quantiles**

100.0%	maximum	-3.9
99.5%		-3.9
97.5%		-3.9
90.0%		-3.9
75.0%	quartile	-3.9
50.0%	median	-3.9
25.0%	quartile	-3.9
10.0%		-3.9
2.5%		-3.9
0.5%		-3.9
0.0%	minimum	-3.9

Summary Statistics

Mean	-3.9
Std Dev	.
Std Err Mean	.
Upper 95% Mean	.
Lower 95% Mean	.
N	1.0

Distributions Analyte_Method=Iron-55 Evaporation, acidified**Bias****Quantiles**

100.0%	maximum	24.5
99.5%		24.5
97.5%		24.5
90.0%		24.5
75.0%	quartile	24.5
50.0%	median	24.5
25.0%	quartile	24.5
10.0%		24.5
2.5%		24.5
0.5%		24.5
0.0%	minimum	24.5

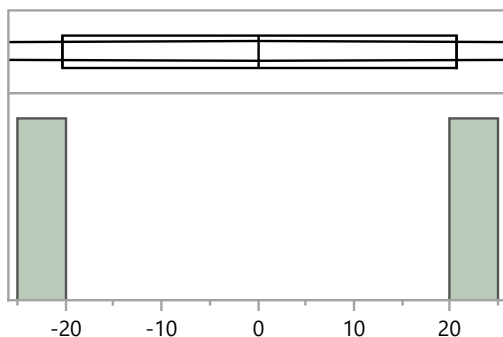
Summary Statistics

Mean	24.5
Std Dev	.
Std Err Mean	.
Upper 95% Mean	.
Lower 95% Mean	.
N	1.0

MaW53 Distribution by Preparation Method

Distributions Analyte_Method=Iron-55 Ion Exchange Chromatography / Ion Chromatography

Bias



Quantiles

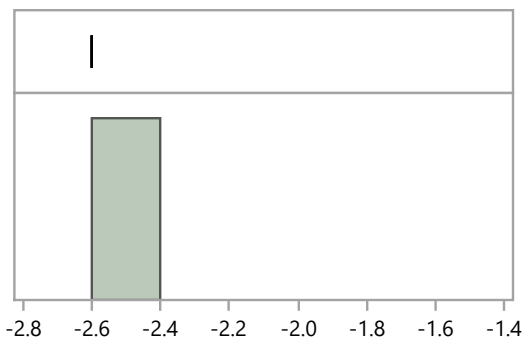
100.0%	maximum	20.6
99.5%		20.6
97.5%		20.6
90.0%		20.6
75.0%	quartile	20.6
50.0%	median	0.2
25.0%	quartile	-20.3
10.0%		-20.3
2.5%		-20.3
0.5%		-20.3
0.0%	minimum	-20.3

Summary Statistics

Mean	0.2
Std Dev	28.9
Std Err Mean	20.5
Upper 95% Mean	260.0
Lower 95% Mean	-259.7
N	2.0

Distributions Analyte_Method=Manganese-54 Coprecipitation, acidified

Bias



Quantiles

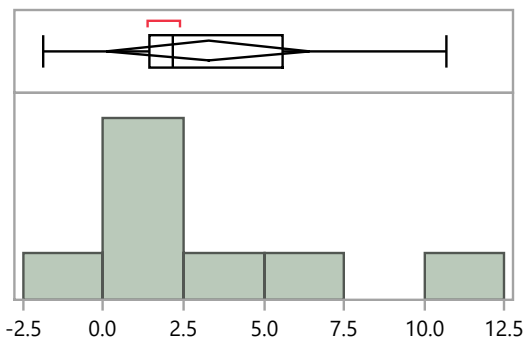
100.0%	maximum	-2.6
99.5%		-2.6
97.5%		-2.6
90.0%		-2.6
75.0%	quartile	-2.6
50.0%	median	-2.6
25.0%	quartile	-2.6
10.0%		-2.6
2.5%		-2.6
0.5%		-2.6
0.0%	minimum	-2.6

Summary Statistics

Mean	-2.6
Std Dev	.
Std Err Mean	.
Upper 95% Mean	.
Lower 95% Mean	.
N	1.0

Distributions Analyte_Method=Manganese-54 EPA 901.1, Gamma Emitting, 600/4-80-032

Bias

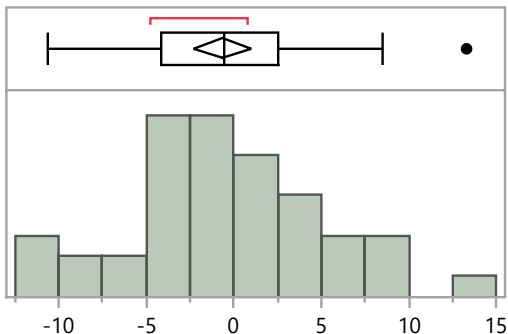


Quantiles

100.0%	maximum	10.7
99.5%		10.7
97.5%		10.7
90.0%		10.7
75.0%	quartile	5.6
50.0%	median	2.2
25.0%	quartile	1.4
10.0%		-1.9
2.5%		-1.9
0.5%		-1.9
0.0%	minimum	-1.9

Summary Statistics

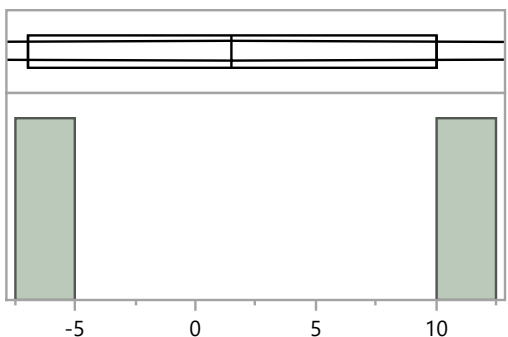
Mean	3.3
Std Dev	3.8
Std Err Mean	1.3
Upper 95% Mean	6.4
Lower 95% Mean	0.1
N	8.0

MaW53 Distribution by Preparation Method**Distributions Analyte_Method=Manganese-54 No preparation - analyzed as received****Bias****Quantiles**

100.0%	maximum	13.3
99.5%		13.3
97.5%		12.7
90.0%		6.9
75.0%	quartile	2.6
50.0%	median	-0.6
25.0%	quartile	-4.2
10.0%		-9.1
2.5%		-10.6
0.5%		-10.6
0.0%	minimum	-10.6

Summary Statistics

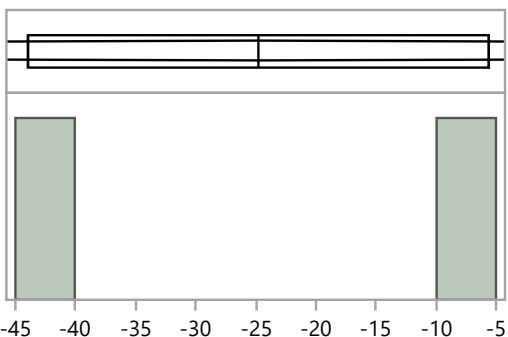
Mean	-0.7
Std Dev	5.4
Std Err Mean	0.8
Upper 95% Mean	1.0
Lower 95% Mean	-2.3
N	44.0

Distributions Analyte_Method=Manganese-54 Other**Bias****Quantiles**

100.0%	maximum	10.0
99.5%		10.0
97.5%		10.0
90.0%		10.0
75.0%	quartile	10.0
50.0%	median	1.5
25.0%	quartile	-7.0
10.0%		-7.0
2.5%		-7.0
0.5%		-7.0
0.0%	minimum	-7.0

Summary Statistics

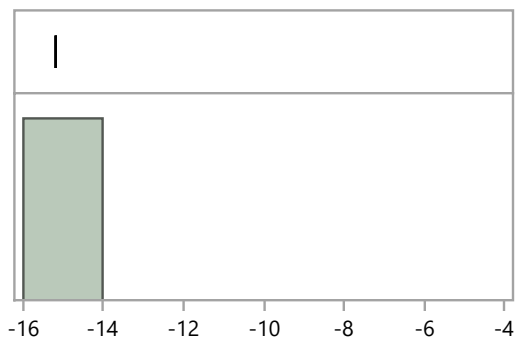
Mean	1.5
Std Dev	12.0
Std Err Mean	8.5
Upper 95% Mean	109.5
Lower 95% Mean	-106.5
N	2.0

Distributions Analyte_Method=Nickel-63 Coprecipitation, acidified**Bias****Quantiles**

100.0%	maximum	-5.6
99.5%		-5.6
97.5%		-5.6
90.0%		-5.6
75.0%	quartile	-5.6
50.0%	median	-24.8
25.0%	quartile	-44.0
10.0%		-44.0
2.5%		-44.0
0.5%		-44.0
0.0%	minimum	-44.0

Summary Statistics

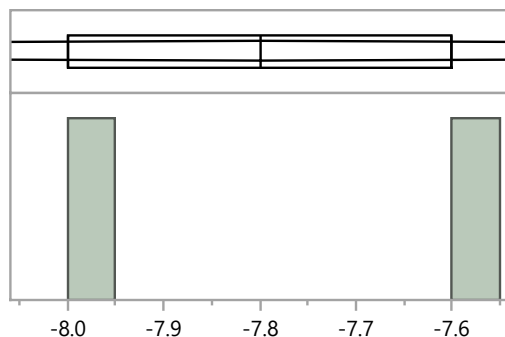
Mean	-24.8
Std Dev	27.2
Std Err Mean	19.2
Upper 95% Mean	219.2
Lower 95% Mean	-268.8
N	2.0

MaW53 Distribution by Preparation Method**Distributions Analyte_Method=Nickel-63 Coprecipitation, straight****Bias****Quantiles**

100.0%	maximum	-15.2
99.5%		-15.2
97.5%		-15.2
90.0%		-15.2
75.0%	quartile	-15.2
50.0%	median	-15.2
25.0%	quartile	-15.2
10.0%		-15.2
2.5%		-15.2
0.5%		-15.2
0.0%	minimum	-15.2

Summary Statistics

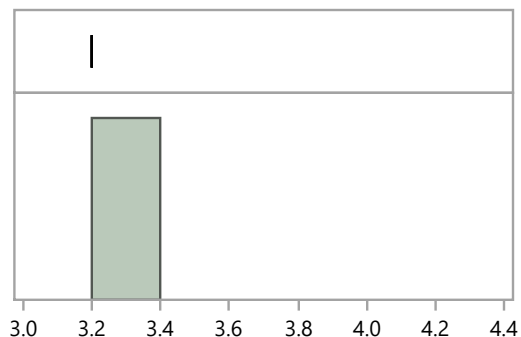
Mean	-15.2
Std Dev	.
Std Err Mean	.
Upper 95% Mean	.
Lower 95% Mean	.
N	1.0

Distributions Analyte_Method=Nickel-63 Evaporation, acidified**Bias****Quantiles**

100.0%	maximum	-7.6
99.5%		-7.6
97.5%		-7.6
90.0%		-7.6
75.0%	quartile	-7.6
50.0%	median	-7.8
25.0%	quartile	-8.0
10.0%		-8.0
2.5%		-8.0
0.5%		-8.0
0.0%	minimum	-8.0

Summary Statistics

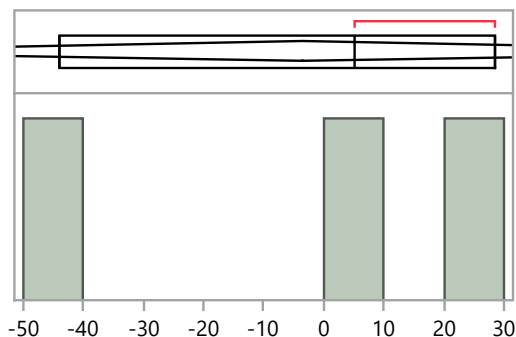
Mean	-7.8
Std Dev	0.3
Std Err Mean	0.2
Upper 95% Mean	-5.3
Lower 95% Mean	-10.3
N	2.0

Distributions Analyte_Method=Nickel-63 Ion Exchange Chromatography / Ion Chromatography**Bias****Quantiles**

100.0%	maximum	3.2
99.5%		3.2
97.5%		3.2
90.0%		3.2
75.0%	quartile	3.2
50.0%	median	3.2
25.0%	quartile	3.2
10.0%		3.2
2.5%		3.2
0.5%		3.2
0.0%	minimum	3.2

Summary Statistics

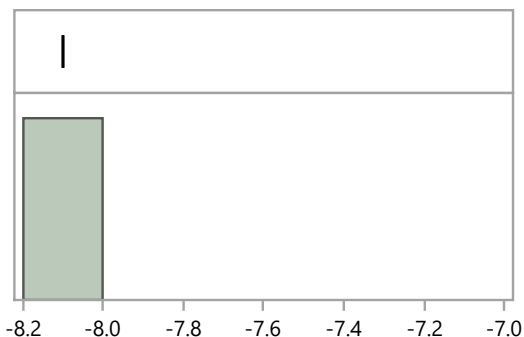
Mean	3.2
Std Dev	.
Std Err Mean	.
Upper 95% Mean	.
Lower 95% Mean	.
N	1.0

MaW53 Distribution by Preparation Method**Distributions Analyte_Method=Nickel-63 Other****Bias****Quantiles**

100.0%	maximum	28.4
99.5%		28.4
97.5%		28.4
90.0%		28.4
75.0%	quartile	28.4
50.0%	median	5.2
25.0%	quartile	-43.9
10.0%		-43.9
2.5%		-43.9
0.5%		-43.9
0.0%	minimum	-43.9

Summary Statistics

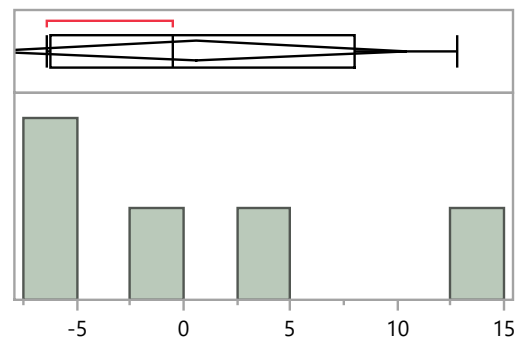
Mean	-3.4
Std Dev	36.9
Std Err Mean	21.3
Upper 95% Mean	88.3
Lower 95% Mean	-95.1
N	3.0

Distributions Analyte_Method=Radium-226 Acid leaching without hydrofluoric acid**Bias****Quantiles**

100.0%	maximum	-8.1
99.5%		-8.1
97.5%		-8.1
90.0%		-8.1
75.0%	quartile	-8.1
50.0%	median	-8.1
25.0%	quartile	-8.1
10.0%		-8.1
2.5%		-8.1
0.5%		-8.1
0.0%	minimum	-8.1

Summary Statistics

Mean	-8.1
Std Dev	.
Std Err Mean	.
Upper 95% Mean	.
Lower 95% Mean	.
N	1.0

Distributions Analyte_Method=Radium-226 Coprecipitation, acidified**Bias****Quantiles**

100.0%	maximum	12.8
99.5%		12.8
97.5%		12.8
90.0%		12.8
75.0%	quartile	8.0
50.0%	median	-0.5
25.0%	quartile	-6.3
10.0%		-6.4
2.5%		-6.4
0.5%		-6.4
0.0%	minimum	-6.4

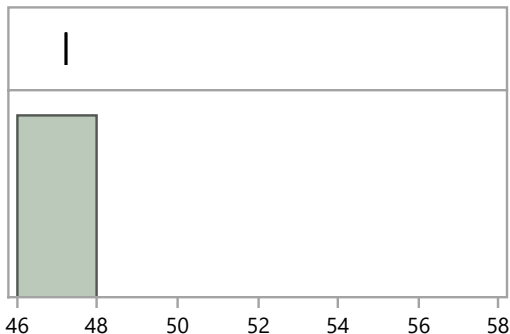
Summary Statistics

Mean	0.6
Std Dev	7.9
Std Err Mean	3.5
Upper 95% Mean	10.4
Lower 95% Mean	-9.2
N	5.0

MaW53 Distribution by Preparation Method

Distributions Analyte_Method=Radium-226 Coprecipitation, straight

Bias



Quantiles

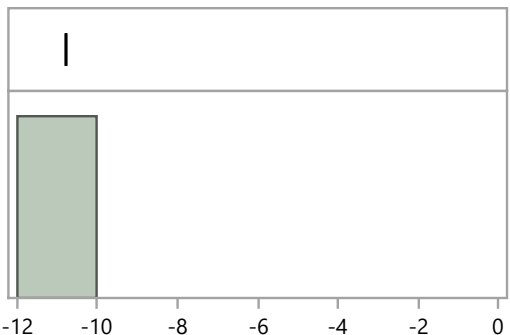
100.0%	maximum	47.2
99.5%		47.2
97.5%		47.2
90.0%		47.2
75.0%	quartile	47.2
50.0%	median	47.2
25.0%	quartile	47.2
10.0%		47.2
2.5%		47.2
0.5%		47.2
0.0%	minimum	47.2

Summary Statistics

Mean	47.2
Std Dev	.
Std Err Mean	.
Upper 95% Mean	.
Lower 95% Mean	.
N	1.0

Distributions Analyte_Method=Radium-226 Evaporation, acidified

Bias



Quantiles

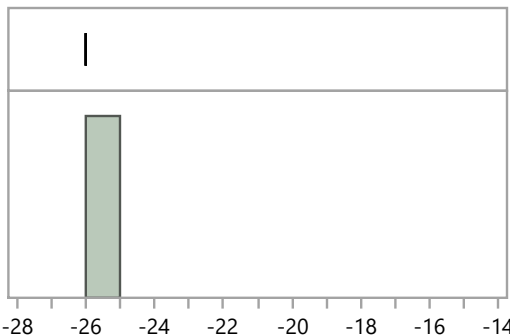
100.0%	maximum	-10.8
99.5%		-10.8
97.5%		-10.8
90.0%		-10.8
75.0%	quartile	-10.8
50.0%	median	-10.8
25.0%	quartile	-10.8
10.0%		-10.8
2.5%		-10.8
0.5%		-10.8
0.0%	minimum	-10.8

Summary Statistics

Mean	-10.8
Std Dev	.
Std Err Mean	.
Upper 95% Mean	.
Lower 95% Mean	.
N	1.0

Distributions Analyte_Method=Radium-226 Evaporation, straight

Bias

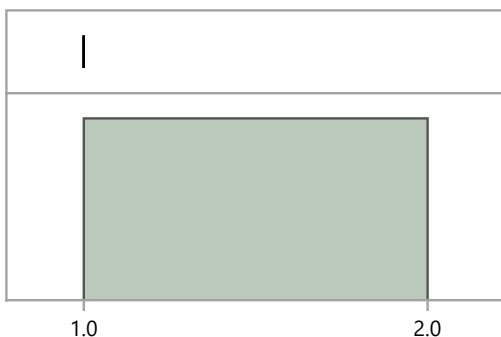


Quantiles

100.0%	maximum	-26.0
99.5%		-26.0
97.5%		-26.0
90.0%		-26.0
75.0%	quartile	-26.0
50.0%	median	-26.0
25.0%	quartile	-26.0
10.0%		-26.0
2.5%		-26.0
0.5%		-26.0
0.0%	minimum	-26.0

Summary Statistics

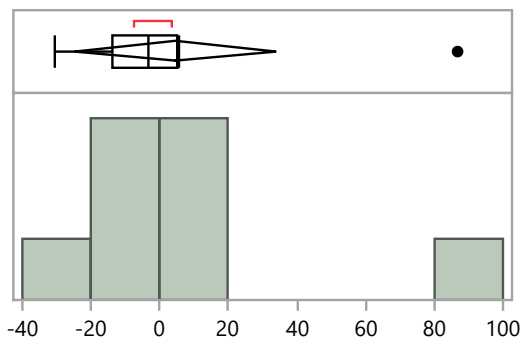
Mean	-26.0
Std Dev	.
Std Err Mean	.
Upper 95% Mean	.
Lower 95% Mean	.
N	1.0

MaW53 Distribution by Preparation Method**Distributions Analyte_Method=Radium-226 Ion Exchange Chromatography / Ion Chromatography****Bias****Quantiles**

100.0%	maximum	1.0
99.5%		1.0
97.5%		1.0
90.0%		1.0
75.0%	quartile	1.0
50.0%	median	1.0
25.0%	quartile	1.0
10.0%		1.0
2.5%		1.0
0.5%		1.0
0.0%	minimum	1.0

Summary Statistics

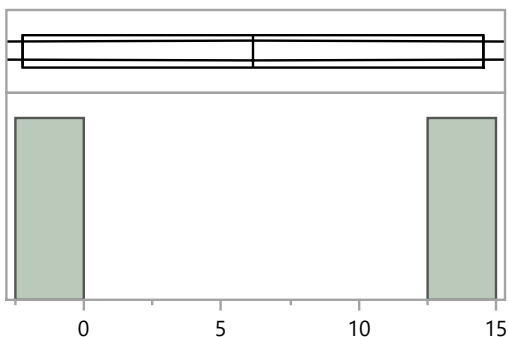
Mean	1.0
Std Dev	.
Std Err Mean	.
Upper 95% Mean	.
Lower 95% Mean	.
N	1.0

Distributions Analyte_Method=Radium-226 Other**Bias****Quantiles**

100.0%	maximum	86.7
99.5%		86.7
97.5%		86.7
90.0%		86.7
75.0%	quartile	5.0
50.0%	median	-3.2
25.0%	quartile	-13.6
10.0%		-30.4
2.5%		-30.4
0.5%		-30.4
0.0%	minimum	-30.4

Summary Statistics

Mean	4.5
Std Dev	35.2
Std Err Mean	12.4
Upper 95% Mean	33.9
Lower 95% Mean	-24.9
N	8.0

Distributions Analyte_Method=Radium-226 Total dissolution by fusion**Bias****Quantiles**

100.0%	maximum	14.5
99.5%		14.5
97.5%		14.5
90.0%		14.5
75.0%	quartile	14.5
50.0%	median	6.2
25.0%	quartile	-2.2
10.0%		-2.2
2.5%		-2.2
0.5%		-2.2
0.0%	minimum	-2.2

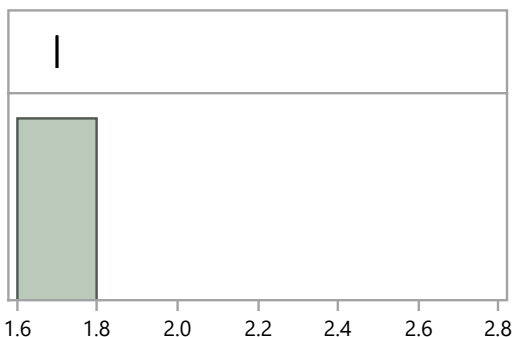
Summary Statistics

Mean	6.2
Std Dev	11.8
Std Err Mean	8.4
Upper 95% Mean	112.2
Lower 95% Mean	-99.9
N	2.0

MaW53 Distribution by Preparation Method

Distributions Analyte_Method=Strontium-90 Acid dissolution with hydrofluoric acid

Bias



Quantiles

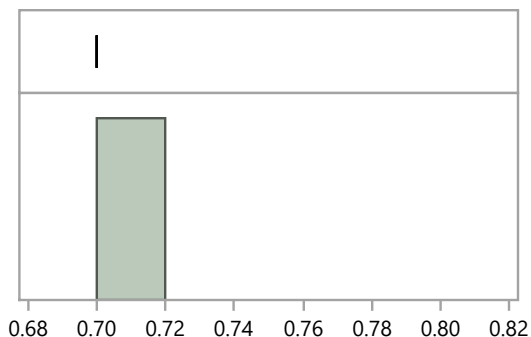
100.0%	maximum	1.7
99.5%		1.7
97.5%		1.7
90.0%		1.7
75.0%	quartile	1.7
50.0%	median	1.7
25.0%	quartile	1.7
10.0%		1.7
2.5%		1.7
0.5%		1.7
0.0%	minimum	1.7

Summary Statistics

Mean	1.7
Std Dev	.
Std Err Mean	.
Upper 95% Mean	.
Lower 95% Mean	.
N	1.0

Distributions Analyte_Method=Strontium-90 Coprecipitation, straight

Bias



Quantiles

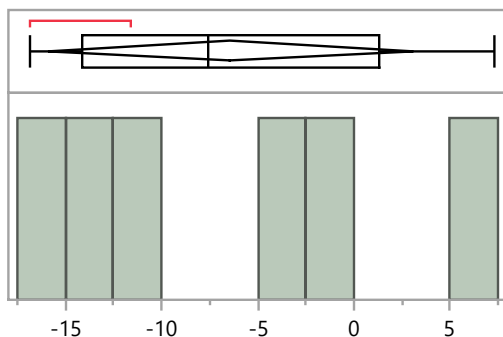
100.0%	maximum	0.7
99.5%		0.7
97.5%		0.7
90.0%		0.7
75.0%	quartile	0.7
50.0%	median	0.7
25.0%	quartile	0.7
10.0%		0.7
2.5%		0.7
0.5%		0.7
0.0%	minimum	0.7

Summary Statistics

Mean	0.7
Std Dev	.
Std Err Mean	.
Upper 95% Mean	.
Lower 95% Mean	.
N	1.0

Distributions Analyte_Method=Strontium-90 EPA 905, Radioactive Strontium, 600/4-80-032

Bias

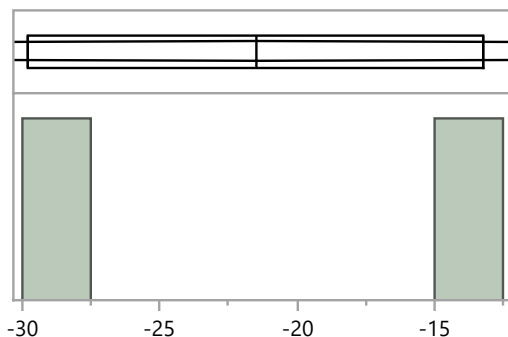


Quantiles

100.0%	maximum	7.3
99.5%		7.3
97.5%		7.3
90.0%		7.3
75.0%	quartile	1.3
50.0%	median	-7.6
25.0%	quartile	-14.1
10.0%		-16.8
2.5%		-16.8
0.5%		-16.8
0.0%	minimum	-16.8

Summary Statistics

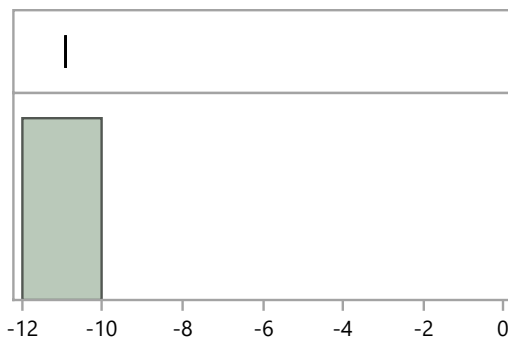
Mean	-6.4
Std Dev	9.0
Std Err Mean	3.7
Upper 95% Mean	3.1
Lower 95% Mean	-15.9
N	6.0

MaW53 Distribution by Preparation Method**Distributions Analyte_Method=Strontium-90 Evaporation, acidified****Bias****Quantiles**

100.0%	maximum	-13.2
99.5%		-13.2
97.5%		-13.2
90.0%		-13.2
75.0%	quartile	-13.2
50.0%	median	-21.5
25.0%	quartile	-29.8
10.0%		-29.8
2.5%		-29.8
0.5%		-29.8
0.0%	minimum	-29.8

Summary Statistics

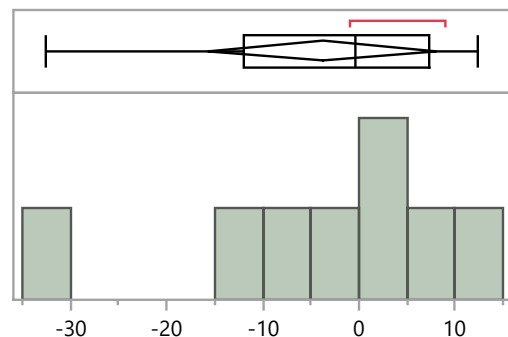
Mean	-21.5
Std Dev	11.7
Std Err Mean	8.3
Upper 95% Mean	84.0
Lower 95% Mean	-127.0
N	2.0

Distributions Analyte_Method=Strontium-90 Evaporation, straight**Bias****Quantiles**

100.0%	maximum	-10.9
99.5%		-10.9
97.5%		-10.9
90.0%		-10.9
75.0%	quartile	-10.9
50.0%	median	-10.9
25.0%	quartile	-10.9
10.0%		-10.9
2.5%		-10.9
0.5%		-10.9
0.0%	minimum	-10.9

Summary Statistics

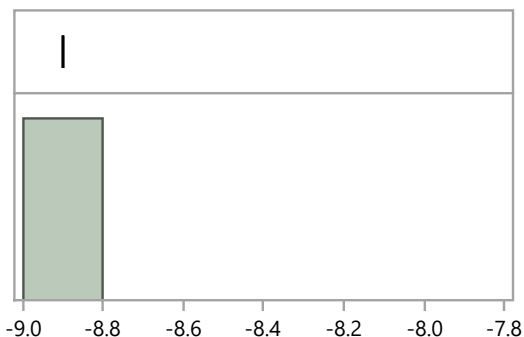
Mean	-10.9
Std Dev	.
Std Err Mean	.
Upper 95% Mean	.
Lower 95% Mean	.
N	1.0

Distributions Analyte_Method=Strontium-90 Ion Exchange Chromatography / Ion Chromatography**Bias****Quantiles**

100.0%	maximum	12.3
99.5%		12.3
97.5%		12.3
90.0%		12.3
75.0%	quartile	7.3
50.0%	median	-0.4
25.0%	quartile	-11.9
10.0%		-32.5
2.5%		-32.5
0.5%		-32.5
0.0%	minimum	-32.5

Summary Statistics

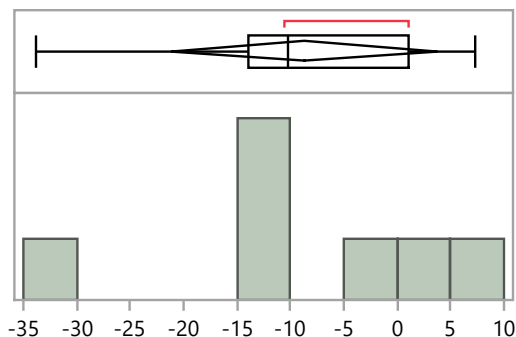
Mean	-3.8
Std Dev	14.2
Std Err Mean	5.0
Upper 95% Mean	8.1
Lower 95% Mean	-15.7
N	8.0

MaW53 Distribution by Preparation Method**Distributions Analyte_Method=Strontium-90 No preparation - analyzed as received****Bias****Quantiles**

100.0%	maximum	-8.9
99.5%		-8.9
97.5%		-8.9
90.0%		-8.9
75.0%	quartile	-8.9
50.0%	median	-8.9
25.0%	quartile	-8.9
10.0%		-8.9
2.5%		-8.9
0.5%		-8.9
0.0%	minimum	-8.9

Summary Statistics

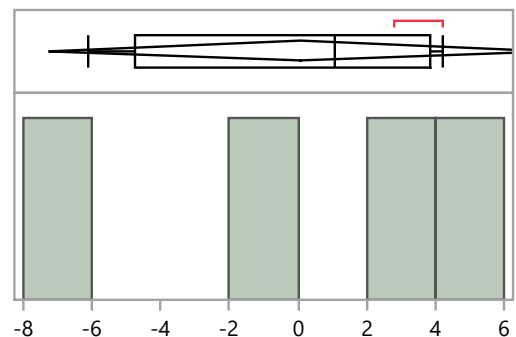
Mean	-8.9
Std Dev	.
Std Err Mean	.
Upper 95% Mean	.
Lower 95% Mean	.
N	1.0

Distributions Analyte_Method=Strontium-90 Other**Bias****Quantiles**

100.0%	maximum	7.3
99.5%		7.3
97.5%		7.3
90.0%		7.3
75.0%	quartile	1.0
50.0%	median	-10.3
25.0%	quartile	-13.9
10.0%		-33.8
2.5%		-33.8
0.5%		-33.8
0.0%	minimum	-33.8

Summary Statistics

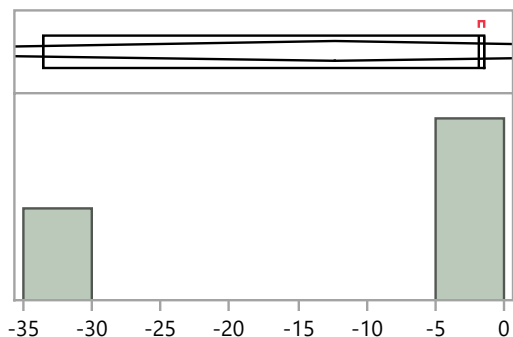
Mean	-8.7
Std Dev	13.4
Std Err Mean	5.1
Upper 95% Mean	3.7
Lower 95% Mean	-21.1
N	7.0

Distributions Analyte_Method=Uranium-234 Acid dissolution with hydrofluoric acid**Bias****Quantiles**

100.0%	maximum	4.2
99.5%		4.2
97.5%		4.2
90.0%		4.2
75.0%	quartile	3.9
50.0%	median	1.1
25.0%	quartile	-4.8
10.0%		-6.1
2.5%		-6.1
0.5%		-6.1
0.0%	minimum	-6.1

Summary Statistics

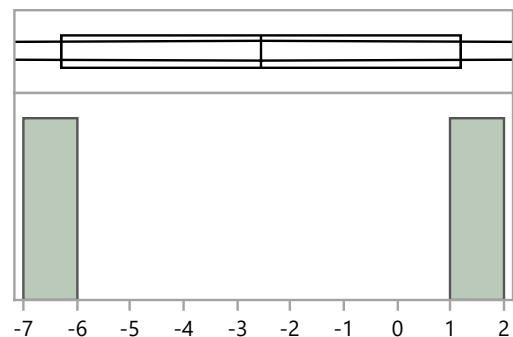
Mean	0.1
Std Dev	4.6
Std Err Mean	2.3
Upper 95% Mean	7.4
Lower 95% Mean	-7.3
N	4.0

MaW53 Distribution by Preparation Method**Distributions Analyte_Method=Uranium-234 Coprecipitation, acidified****Bias****Quantiles**

100.0%	maximum	-1.4
99.5%		-1.4
97.5%		-1.4
90.0%		-1.4
75.0%	quartile	-1.4
50.0%	median	-1.9
25.0%	quartile	-33.6
10.0%		-33.6
2.5%		-33.6
0.5%		-33.6
0.0%	minimum	-33.6

Summary Statistics

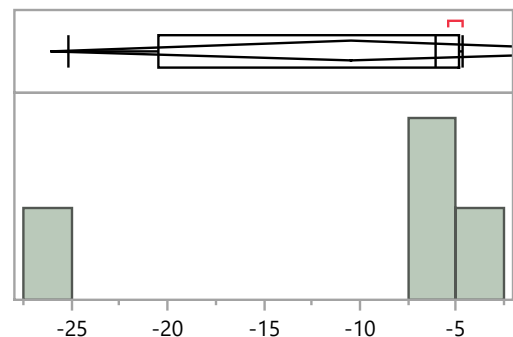
Mean	-12.3
Std Dev	18.4
Std Err Mean	10.7
Upper 95% Mean	33.5
Lower 95% Mean	-58.1
N	3.0

Distributions Analyte_Method=Uranium-234 Coprecipitation, straight**Bias****Quantiles**

100.0%	maximum	1.2
99.5%		1.2
97.5%		1.2
90.0%		1.2
75.0%	quartile	1.2
50.0%	median	-2.6
25.0%	quartile	-6.3
10.0%		-6.3
2.5%		-6.3
0.5%		-6.3
0.0%	minimum	-6.3

Summary Statistics

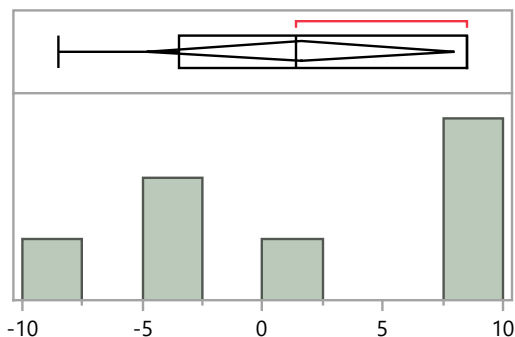
Mean	-2.6
Std Dev	5.3
Std Err Mean	3.8
Upper 95% Mean	45.1
Lower 95% Mean	-50.2
N	2.0

Distributions Analyte_Method=Uranium-234 Evaporation, acidified**Bias****Quantiles**

100.0%	maximum	-4.7
99.5%		-4.7
97.5%		-4.7
90.0%		-4.7
75.0%	quartile	-4.9
50.0%	median	-6.1
25.0%	quartile	-20.5
10.0%		-25.1
2.5%		-25.1
0.5%		-25.1
0.0%	minimum	-25.1

Summary Statistics

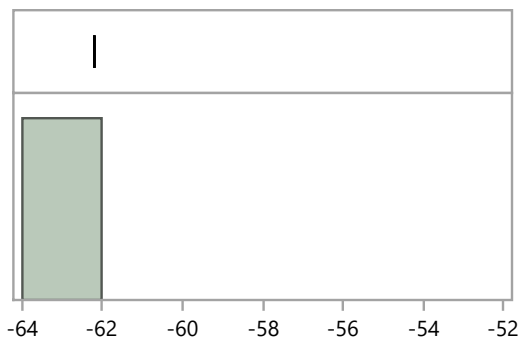
Mean	-10.5
Std Dev	9.8
Std Err Mean	4.9
Upper 95% Mean	5.1
Lower 95% Mean	-26.0
N	4.0

MaW53 Distribution by Preparation Method**Distributions Analyte_Method=Uranium-234 Ion Exchange Chromatography / Ion Chromatography****Bias****Quantiles**

100.0%	maximum	8.5
99.5%		8.5
97.5%		8.5
90.0%		8.5
75.0%	quartile	8.5
50.0%	median	1.4
25.0%	quartile	-3.5
10.0%		-8.5
2.5%		-8.5
0.5%		-8.5
0.0%	minimum	-8.5

Summary Statistics

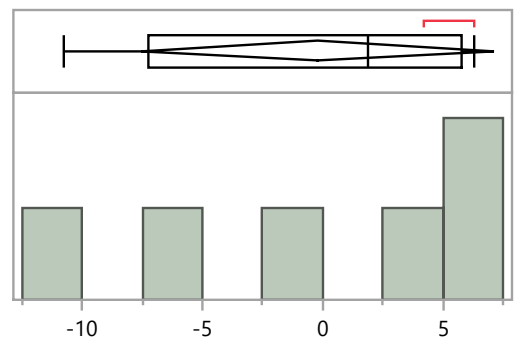
Mean	1.6
Std Dev	6.9
Std Err Mean	2.6
Upper 95% Mean	8.0
Lower 95% Mean	-4.8
N	7.0

Distributions Analyte_Method=Uranium-234 No preparation - analyzed as received**Bias****Quantiles**

100.0%	maximum	-62.2
99.5%		-62.2
97.5%		-62.2
90.0%		-62.2
75.0%	quartile	-62.2
50.0%	median	-62.2
25.0%	quartile	-62.2
10.0%		-62.2
2.5%		-62.2
0.5%		-62.2
0.0%	minimum	-62.2

Summary Statistics

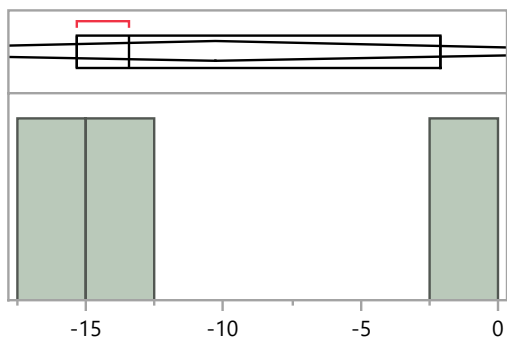
Mean	-62.2
Std Dev	.
Std Err Mean	.
Upper 95% Mean	.
Lower 95% Mean	.
N	1.0

Distributions Analyte_Method=Uranium-234 Other**Bias****Quantiles**

100.0%	maximum	6.3
99.5%		6.3
97.5%		6.3
90.0%		6.3
75.0%	quartile	5.8
50.0%	median	1.9
25.0%	quartile	-7.3
10.0%		-10.8
2.5%		-10.8
0.5%		-10.8
0.0%	minimum	-10.8

Summary Statistics

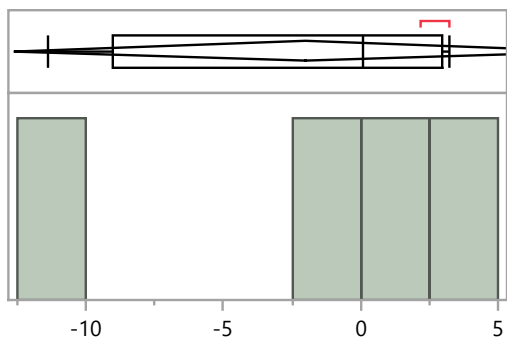
Mean	-0.2
Std Dev	7.0
Std Err Mean	2.8
Upper 95% Mean	7.1
Lower 95% Mean	-7.5
N	6.0

MaW53 Distribution by Preparation Method**Distributions Analyte_Method=Uranium-234 Total dissolution by fusion****Bias****Quantiles**

100.0%	maximum	-2.1
99.5%		-2.1
97.5%		-2.1
90.0%		-2.1
75.0%	quartile	-2.1
50.0%	median	-13.4
25.0%	quartile	-15.3
10.0%		-15.3
2.5%		-15.3
0.5%		-15.3
0.0%	minimum	-15.3

Summary Statistics

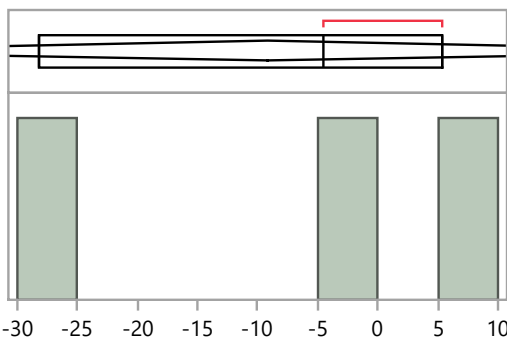
Mean	-10.3
Std Dev	7.1
Std Err Mean	4.1
Upper 95% Mean	7.5
Lower 95% Mean	-28.0
N	3.0

Distributions Analyte_Method=Uranium-238 Acid dissolution with hydrofluoric acid**Bias****Quantiles**

100.0%	maximum	3.2
99.5%		3.2
97.5%		3.2
90.0%		3.2
75.0%	quartile	3.0
50.0%	median	0.1
25.0%	quartile	-9.1
10.0%		-11.4
2.5%		-11.4
0.5%		-11.4
0.0%	minimum	-11.4

Summary Statistics

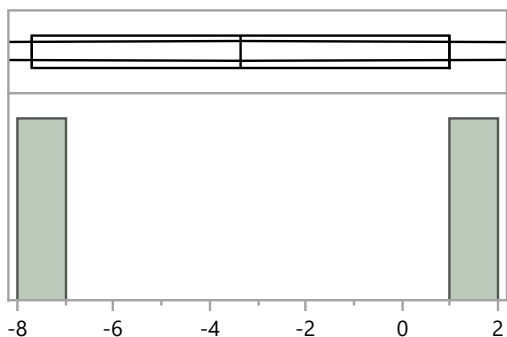
Mean	-2.0
Std Dev	6.7
Std Err Mean	3.3
Upper 95% Mean	8.6
Lower 95% Mean	-12.6
N	4.0

Distributions Analyte_Method=Uranium-238 Coprecipitation, acidified**Bias****Quantiles**

100.0%	maximum	5.3
99.5%		5.3
97.5%		5.3
90.0%		5.3
75.0%	quartile	5.3
50.0%	median	-4.5
25.0%	quartile	-28.2
10.0%		-28.2
2.5%		-28.2
0.5%		-28.2
0.0%	minimum	-28.2

Summary Statistics

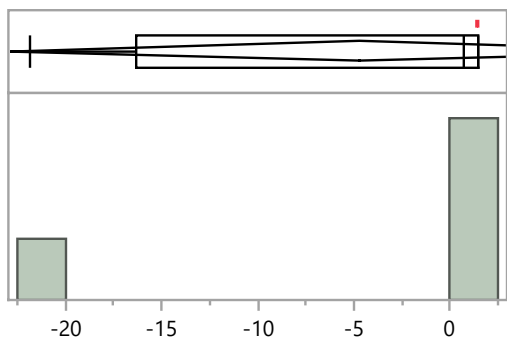
Mean	-9.1
Std Dev	17.2
Std Err Mean	9.9
Upper 95% Mean	33.7
Lower 95% Mean	-51.9
N	3.0

MaW53 Distribution by Preparation Method**Distributions Analyte_Method=Uranium-238 Coprecipitation, straight****Bias****Quantiles**

100.0%	maximum	1.0
99.5%		1.0
97.5%		1.0
90.0%		1.0
75.0%	quartile	1.0
50.0%	median	-3.4
25.0%	quartile	-7.7
10.0%		-7.7
2.5%		-7.7
0.5%		-7.7
0.0%	minimum	-7.7

Summary Statistics

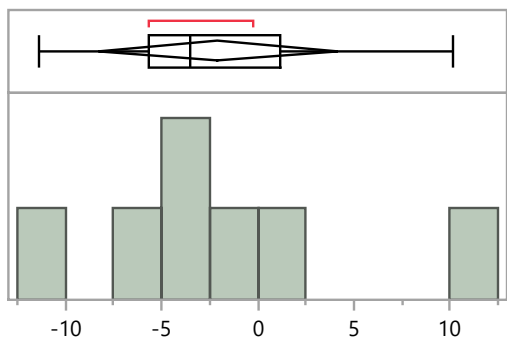
Mean	-3.4
Std Dev	6.2
Std Err Mean	4.4
Upper 95% Mean	51.9
Lower 95% Mean	-58.6
N	2.0

Distributions Analyte_Method=Uranium-238 Evaporation, acidified**Bias****Quantiles**

100.0%	maximum	1.5
99.5%		1.5
97.5%		1.5
90.0%		1.5
75.0%	quartile	1.5
50.0%	median	0.8
25.0%	quartile	-16.3
10.0%		-21.8
2.5%		-21.8
0.5%		-21.8
0.0%	minimum	-21.8

Summary Statistics

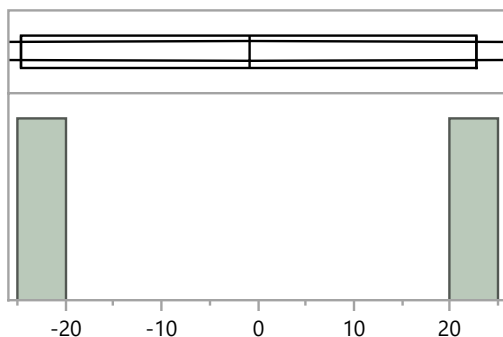
Mean	-4.7
Std Dev	11.4
Std Err Mean	5.7
Upper 95% Mean	13.5
Lower 95% Mean	-22.9
N	4.0

Distributions Analyte_Method=Uranium-238 Ion Exchange Chromatography / Ion Chromatography**Bias****Quantiles**

100.0%	maximum	10.1
99.5%		10.1
97.5%		10.1
90.0%		10.1
75.0%	quartile	1.2
50.0%	median	-3.5
25.0%	quartile	-5.7
10.0%		-11.4
2.5%		-11.4
0.5%		-11.4
0.0%	minimum	-11.4

Summary Statistics

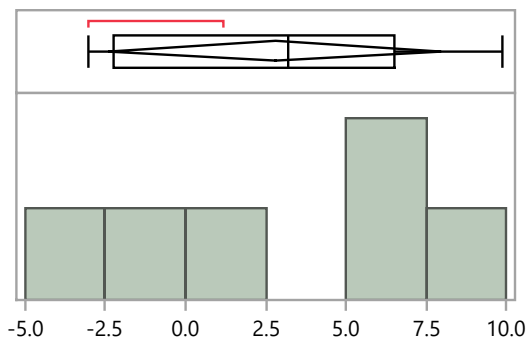
Mean	-2.1
Std Dev	6.7
Std Err Mean	2.6
Upper 95% Mean	4.2
Lower 95% Mean	-8.3
N	7.0

MaW53 Distribution by Preparation Method**Distributions Analyte_Method=Uranium-238 No preparation - analyzed as received****Bias****Quantiles**

100.0%	maximum	22.8
99.5%		22.8
97.5%		22.8
90.0%		22.8
75.0%	quartile	22.8
50.0%	median	-0.8
25.0%	quartile	-24.5
10.0%		-24.5
2.5%		-24.5
0.5%		-24.5
0.0%	minimum	-24.5

Summary Statistics

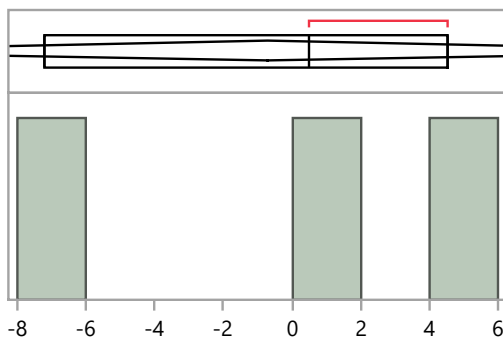
Mean	-0.8
Std Dev	33.4
Std Err Mean	23.6
Upper 95% Mean	299.7
Lower 95% Mean	-301.4
N	2.0

Distributions Analyte_Method=Uranium-238 Other**Bias****Quantiles**

100.0%	maximum	9.9
99.5%		9.9
97.5%		9.9
90.0%		9.9
75.0%	quartile	6.5
50.0%	median	3.2
25.0%	quartile	-2.3
10.0%		-3.0
2.5%		-3.0
0.5%		-3.0
0.0%	minimum	-3.0

Summary Statistics

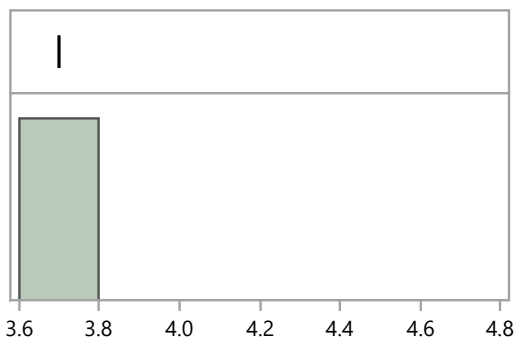
Mean	2.8
Std Dev	4.9
Std Err Mean	2.0
Upper 95% Mean	8.0
Lower 95% Mean	-2.4
N	6.0

Distributions Analyte_Method=Uranium-238 Total dissolution by fusion**Bias****Quantiles**

100.0%	maximum	4.5
99.5%		4.5
97.5%		4.5
90.0%		4.5
75.0%	quartile	4.5
50.0%	median	0.5
25.0%	quartile	-7.2
10.0%		-7.2
2.5%		-7.2
0.5%		-7.2
0.0%	minimum	-7.2

Summary Statistics

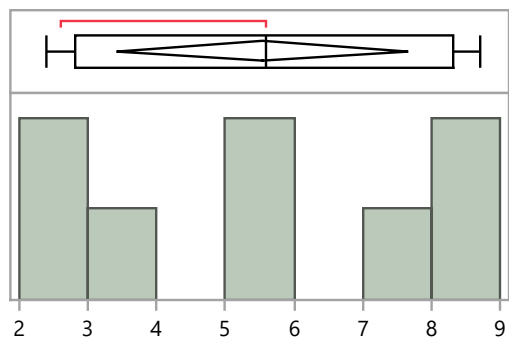
Mean	-0.7
Std Dev	5.9
Std Err Mean	3.4
Upper 95% Mean	14.0
Lower 95% Mean	-15.5
N	3.0

MaW53 Distribution by Preparation Method**Distributions Analyte_Method=Zinc-65 Coprecipitation, acidified****Bias****Quantiles**

100.0%	maximum	3.7
99.5%		3.7
97.5%		3.7
90.0%		3.7
75.0%	quartile	3.7
50.0%	median	3.7
25.0%	quartile	3.7
10.0%		3.7
2.5%		3.7
0.5%		3.7
0.0%	minimum	3.7

Summary Statistics

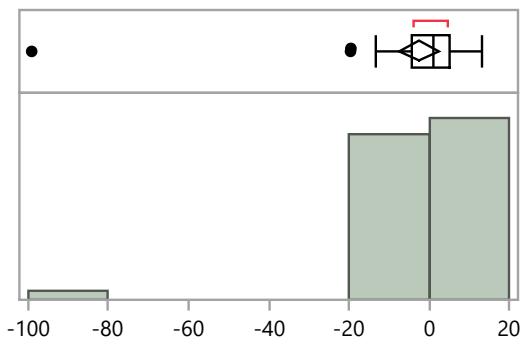
Mean	3.7
Std Dev	.
Std Err Mean	.
Upper 95% Mean	.
Lower 95% Mean	.
N	1.0

Distributions Analyte_Method=Zinc-65 EPA 901.1, Gamma Emitting, 600/4-80-032**Bias****Quantiles**

100.0%	maximum	8.7
99.5%		8.7
97.5%		8.7
90.0%		8.7
75.0%	quartile	8.3
50.0%	median	5.6
25.0%	quartile	2.8
10.0%		2.4
2.5%		2.4
0.5%		2.4
0.0%	minimum	2.4

Summary Statistics

Mean	5.5
Std Dev	2.5
Std Err Mean	0.9
Upper 95% Mean	7.7
Lower 95% Mean	3.4
N	8.0

Distributions Analyte_Method=Zinc-65 No preparation - analyzed as received**Bias****Quantiles**

100.0%	maximum	13.0
99.5%		13.0
97.5%		12.7
90.0%		7.7
75.0%	quartile	5.3
50.0%	median	0.9
25.0%	quartile	-4.3
10.0%		-10.7
2.5%		-87.2
0.5%		-99.1
0.0%	minimum	-99.1

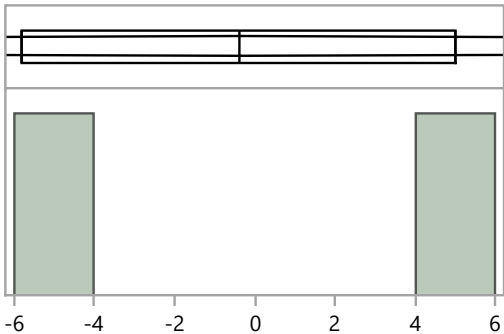
Summary Statistics

Mean	-2.4
Std Dev	16.4
Std Err Mean	2.4
Upper 95% Mean	2.5
Lower 95% Mean	-7.4
N	45.0

MaW53 Distribution by Preparation Method

Distributions Analyte_Method=Zinc-65 Other

Bias



Quantiles			Summary Statistics	
100.0%	maximum	5.0	Mean	-0.4
99.5%		5.0	Std Dev	7.6
97.5%		5.0	Std Err Mean	5.4
90.0%		5.0	Upper 95% Mean	68.2
75.0%	quartile	5.0	Lower 95% Mean	-69.0
50.0%	median	-0.4	N	2.0
25.0%	quartile	-5.8		
10.0%		-5.8		
2.5%		-5.8		
0.5%		-5.8		
0.0%	minimum	-5.8		