

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.

MaS54 Participating Laboratories

Lab Code	Lab Name	Matrix Code
ADEM01	Alabama Department of Environmental Management	MaS
ADFC99	Abu Dhabi Quality and Conformity Council-Central Testing Lab	MaS
AFOH01	USAFSAM/OEA	MaS
AMEC99	Amentum Clean Energy Ltd	MaS
ARSL01	ARS	MaS
AY1201	Consolidated Nuclear Security, LLC, ACO Laboratory	MaS
BSCE99	Supreme Council for Environment	MaS
BY1201	Consolidated Nuclear Security, LLC, ACO, Production Laboratory	MaS
CDHS01	California Department of Public Health	MaS
CESL01	Lawrence Livermore National Laboratory - EMRL	MaS
CMRC01	Carlsbad Environmental Monitoring and Research Center	MaS
EFGS01	Eurofins Environment Testing Seattle	MaS
ERCL01	Washington State Public Health Laboratories	MaS
ERHD99	National Monitoring Section, Radiation Protection Bureau, Health Canada	MaS
ETTP01	MCLinc	MaS
EULC01	EnergySolutions, LLC	MaS
FANR79	Federal Authority for Nuclear Regulation, Environmental Laboratory	MaS
FDHE01	Florida Dept of Health Environmental Laboratory	MaS
FDOH01	Florida Dept. of Health, Mobile Environmental Radiological Lab	MaS
GENE01	GEL Laboratories, LLC	MaS
GPCL01	Georgia Power Company Environmental Laboratory	MaS
HECR01	SC Department of Environmental Services	MaS
HPAC99	UKHSA, RCE Glasgow	MaS
HPAL01	Los Alamos National Laboratory	MaS
IAEA20	IAEA Marine Environment Laboratories, Radiometrics Laboratory	MaS
IAEA99	International Atomic Energy Agency	MaS
HEMA01	Illinois Emergency Management Agency Radiochemistry Laboratory	MaS
ISUE01	ISU Environmental Monitoring Laboratory	MaS
JAEC99	Research Laboratories and Information Directorate	MaS
JLNN01	Jefferson Laboratory	MaS
JNRC99	Energy and Mineral Regulatory Commission	MaS
LOCK03	Advanced Test Reactor (ATR) Complex Radioanalytical Laboratory	MaS
MART01	Southern Ohio Cleanup Company LLC	MaS
MART03	Radioactive Material Analysis Laboratory	MaS
MDPH01	MDPH-Division of Radiation Control	MaS
NARL01	National Analytical Radiation Environmental Laboratory	MaS
NESI01	BWXT-Radioisotope & Analytical Chemistry Laboratory	MaS
NJDH01	New Jersey Dept. of Health, ECLS	MaS
NOCS99	National Oceanography Centre, Southampton	MaS
ODHL01	Ohio Department of Health Laboratory	MaS
OTLI01	Pace Analytical National Center for Testing & Innovation	MaS
RJLG01	RJ Lee Group - Columbia Basin Analytical Laboratories (CBAL)	MaS
RPSC01	Radiation Protection Service	MaS
SANC99	RadioAnalysis, South Africa Nuclear Energy Corp.	MaS

SEML01	SRS Environmental Monitoring Laboratory	MaS
SLAC01	SLAC DOE National Accelerator Laboratory	MaS
SLDA01	USACE SLDA FUSRAP Project	MaS
SOUT01	Southwest Research Institute	MaS
SRPD01	Sandia National Laboratories, Radiation Protection Sample Diagnostics	MaS
STRL01	South Texas Project Radiological Laboratory	MaS
TDHL01	Texas Department of State Health Services Laboratory	MaS
TELE01	Teledyne Brown Engineering - Environmental Services	MaS
TELE02	Microbac Laboratories Inc. - Northbrook	MaS
TMAO01	EBERLINE Analytical Corporation	MaS
TNUT01	St. Louis USACE FUSRAP Laboratory	MaS
WEST04	PACE ANALYTICAL SERVICES, GREENSBURG	MaS
WIPH01	WI, DPH, Radiation Protection Section	MaS
WSHL01	Wisconsin State Laboratory of Hygiene	MaS
YPGA01	US Army Yuma Proving Ground / Material Analysis Lab	MaS

Laboratories Not Reporting

Lab Code	Lab Name	Matrix Code
ARPL01	Analytical Support Operations - Radiochemical Processing Lab	MaS
ASUK99	AWE (Aldermaston)	MaS
IAEA59	IAEA-Equipment Radiation Monitoring Laboratory	MaS
UNTE01	UniTech-235	MaS

Study Reference Values

MAPEP-26-MaS54

Radiological Reference Date: 02/01/2026

Analyte	Ref Value	Ref Unc	Tot Mtl Ref Val	Tot Mtl Ref Unc	Units
Inorganic					
Antimony	5.77	0.12	7.18	0.08	(mg/kg)
Arsenic	7.4	0.2	7.5	0.3	(mg/kg)
Barium	129	4	524	17	(mg/kg)
Beryllium	1.62	0.03	2.59	0.07	(mg/kg)
Cadmium	0.584	0.013	0.62	0.02	(mg/kg)
Chromium	11.9	0.3	30.2	0.9	(mg/kg)
Cobalt	5.73	0.18	7.1	0.2	(mg/kg)
Copper	14.4	0.5	21.5	1.3	(mg/kg)
Lead	10.8	0.2	14.9	0.3	(mg/kg)
Mercury	0.0686	0.0013	0.0686	0.0014	(mg/kg)
Molybdenum	1.00	0.05			(mg/kg)
Nickel	11.9	0.4	14.1	1.0	(mg/kg)
Selenium	1.75	0.03	1.79	0.04	(mg/kg)
Silver	1.94	0.04	2.13	0.04	(mg/kg)
Thallium	1.30	0.02	1.65	0.04	(mg/kg)
Uranium-235	0.0203	0.0011			(mg/kg)
Uranium-238	2.79	0.14			(mg/kg)
Uranium-Total	2.81	0.14			(mg/kg)
Vanadium	35.6	1.1	64	3	(mg/kg)
Zinc	49	2	77	5	(mg/kg)

Analyte	Ref Value	Ref Unc	Units
Radiological			
Americium-241	0.30	0.07	(Bq/kg)
Cesium-134	627	6	(Bq/kg)
Cesium-137	728	11	(Bq/kg)
Cobalt-57	558	11	(Bq/kg)
Iron-55	980	20	(Bq/kg)
Lead-210			(Bq/kg)
Manganese-54	387	8	(Bq/kg)
Neptunium-237	15.70	0.16	(Bq/kg)
Nickel-63	1230	30	(Bq/kg)
Plutonium-239/240	0.22	0.05	(Bq/kg)
Potassium-40	514	19	(Bq/kg)
Strontium-90	545	11	(Bq/kg)
Thorium-228	42.9	1.9	(Bq/kg)
Thorium-230	47	2	(Bq/kg)
Thorium-232	38.5	1.5	(Bq/kg)
Uranium-234	34.7	1.7	(Bq/kg)
Uranium-238	34.7	1.7	(Bq/kg)
Zinc-65	434	9	(Bq/kg)

Sample Statistical Summary

MAPEP-26-MaS54

Radiological Reference Date: 02/01/2026

Analyte	T(1)	A(2)	Grand(3) Mean	Std Dev	Ref Value	Ref Unc	Acceptance Range	Units
Inorganic								
Antimony	9	8	5.05	0.74	5.77	0.12	4.04 - 7.50	(mg/kg)
Arsenic	11	11	7.1	0.9	7.4	0.2	5.2 - 9.6	(mg/kg)
Barium	10	10	133	8	129	4	90 - 168	(mg/kg)
Beryllium	10	10	1.78	0.17	1.62	0.03	1.13 - 2.11	(mg/kg)
Cadmium	9	9	0.592	0.045	0.584	0.013	0.409 - 0.759	(mg/kg)
Chromium	10	8	12.6	0.9	11.9	0.3	8.3 - 15.5	(mg/kg)
Cobalt	12	12	6.08	0.73	5.73	0.18	4.01 - 7.45	(mg/kg)
Copper	12	12	15.6	1.6	14.4	0.5	10.1 - 18.7	(mg/kg)
Lead	12	12	11.2	1.0	10.8	0.2	7.6 - 14.0	(mg/kg)
Mercury	8	8	0.0676	0.0116	0.0686	0.0013	0.0480 - 0.0892	(mg/kg)
Molybdenum	5	4			1.00	0.05	0.70 - 1.30	(mg/kg)
Nickel	11	11	12.1	0.9	11.9	0.4	8.3 - 15.5	(mg/kg)
Selenium	9	5			1.75	0.03	1.23 - 2.28	(mg/kg)
Silver	10	10	1.80	0.14	1.94	0.04	1.36 - 2.52	(mg/kg)
Technetium-99	4	3					False Positive Test	(mg/kg)
Thallium	10	10	1.22	0.08	1.30	0.02	0.91 - 1.69	(mg/kg)
Uranium-235	10	7	0.0179	0.0019	0.0203	0.0011	0.0142 - 0.0264	(mg/kg)
Uranium-238	10	9	2.52	0.31	2.79	0.14	1.95 - 3.63	(mg/kg)
Uranium-Total	11	10	2.53	0.29	2.81	0.14	1.97 - 3.65	(mg/kg)
Vanadium	11	9	35.7	2.4	35.6	1.1	24.9 - 46.3	(mg/kg)
Zinc	12	11	57	5	49	2	34 - 64	(mg/kg)

Analyte	T(1)	A(2)	Grand(3) Mean	Std Dev	Ref Value	Ref Unc	Acceptance Range	Units
Radiological								
Americium-241	34	31	1.14	2.48	0.30	0.07	Sensitivity Evaluation	(Bq/kg)
Cesium-134	53	51	599	60	627	6	439 - 815	(Bq/kg)
Cesium-137	53	53	736	47	728	11	510 - 946	(Bq/kg)
Cobalt-57	53	49	553	51	558	11	391 - 725	(Bq/kg)
Cobalt-60	45	35					False Positive Test	(Bq/kg)
Iron-55	6	4			980	20	686 - 1274	(Bq/kg)
Lead-210	4							(Bq/kg)
Manganese-54	53	53	391	27	387	8	271 - 503	(Bq/kg)
Neptunium-237	12	11	15.78	2.33	15.70	0.16	10.99 - 20.41	(Bq/kg)
Nickel-63	7	6	1196	180	1230	30	861 - 1599	(Bq/kg)
Plutonium-238	21	20					False Positive Test	(Bq/kg)
Plutonium-239/240	22	20	0.81	0.86	0.22	0.05	Sensitivity Evaluation	(Bq/kg)
Potassium-40	53	52	511	49	514	19	360 - 668	(Bq/kg)
Strontium-90	22	19	476	52	545	11	382 - 709	(Bq/kg)
Technetium-99	15	11					False Positive Test	(Bq/kg)
Thorium-228	20	18	46.2	6.0	42.9	1.9	30.0 - 55.8	(Bq/kg)
Thorium-230	19	16	49	6	47	2	33 - 61	(Bq/kg)
Thorium-232	22	20	40.3	4.3	38.5	1.5	27.0 - 50.1	(Bq/kg)
Uranium-234	25	23	34.6	4.4	34.7	1.7	24.3 - 45.1	(Bq/kg)
Uranium-238	29	24	31.2	4.7	34.7	1.7	24.3 - 45.1	(Bq/kg)
Zinc-65	53	52	449	33	434	9	304 - 564	(Bq/kg)

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..... $|\text{Bias}| \leq 20\%$
W = Result acceptable with warning..... $20\% < |\text{Bias}| \leq 30\%$
N = Result not acceptable..... $|\text{Bias}| > 30\%$
RW = Report Warning
NR = Not Reported

Uncertainty Flags:

N = NOT ACCEPTABLE..... $\text{RP} < 2\%$
A = ACCEPTABLE..... $2\% \leq \text{RP} \leq 15\%$
W = ACCEPTABLE WITH WARNING..... $15\% \leq \text{RP} \leq 30\%$
N = NOT ACCEPTABLE..... $\text{RP} > 30\%$
Relative Precision (RP) = (Reported Uncertainty / Reported Result) x 100

Flag Summary Report

MAPEP-26-MaS54

Inorganic				
Analyte	A	W	RW	N
Antimony	5	3		1
Arsenic	10	1		
Barium	10			
Beryllium	9	1		
Cadmium	9			
Chromium	7	1		2
Cobalt	11	1		
Copper	10	2		
Lead	12			
Mercury	7	1		
Molybdenum	3	1		1
Nickel	9	2		
Selenium	5			4
Silver	10			
Thallium	10			
Uranium-Total	9	1		1
Uranium-235	7			3
Uranium-238	8	1		1
Vanadium	9			2
Zinc	7	4		1
Technetium-99	3			1
Radiological				
Analyte	A	W	RW	N
Americium-241	31			3
Cesium-134	50	1		
Cesium-137	53			
Cobalt-57	48	1		4
Cobalt-60	35			18
Iron-55	3	1		2
Manganese-54	53			
Neptunium-237	10	1		1
Nickel-63	5	1		1
Plutonium-238	20			2
Plutonium-239/240	20			2
Potassium-40	49	3		1
Strontium-90	13	6		3
Technetium-99	11			4
Thorium-228	13	5		2
Thorium-230	14	2		3
Thorium-232	17	3		2
Uranium-234	22	1		2
Uranium-238	18	6		5
Zinc-65	52			1



Department of Energy RESL - 1955 Fremont Ave, MS4149 - Idaho Falls, ID 83415

Laboratory Results For MAPEP-26-MaS54

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

Inorganic							Units: (mg/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Antimony	NR	5.77				4.04 - 7.50		
Arsenic	NR	7.4				5.2 - 9.6		
Barium	NR	129				90 - 168		
Beryllium	NR	1.62				1.13 - 2.11		
Cadmium	NR	0.584				0.409 - 0.759		
Chromium	NR	11.9				8.3 - 15.5		
Cobalt	NR	5.73				4.01 - 7.45		
Copper	NR	14.4				10.1 - 18.7		
Lead	NR	10.8				7.6 - 14.0		
Mercury	NR	0.0686				0.0480 - 0.0892		
Molybdenum	NR	1.00				0.70 - 1.30		
Nickel	NR	11.9				8.3 - 15.5		
Selenium	NR	1.75				1.23 - 2.28		
Silver	NR	1.94				1.36 - 2.52		
Technetium-99	NR					False Positive Test		
Thallium	NR	1.30				0.91 - 1.69		
Uranium-235	NR	0.0203				0.0142 - 0.0264		
Uranium-238	NR	2.79				1.95 - 3.63		
Uranium-Total	NR	2.81				1.97 - 3.65		
Vanadium	NR	35.6				24.9 - 46.3		
Zinc	NR	49				34 - 64		

Radiological							Units: (Bq/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	NR	0.30				Sensitivity Evaluation		
Cesium-134	536.5000	627	A		-14.4	439 - 815	18.4260	A
Cesium-137	688.2000	728	A		-5.5	510 - 946	28.7120	A
Cobalt-57	469.9000	558	A		-15.8	391 - 725	24.0870	A
Cobalt-60	NR		N	(11)		False Positive Test		
Iron-55	NR	980				686 - 1274		
Manganese-54	369.6300	387	A		-4.5	271 - 503	18.2410	A
Neptunium-237	NR	15.70				10.99 - 20.41		
Nickel-63	NR	1230				861 - 1599		
Plutonium-238	NR					False Positive Test		
Plutonium-239/240	NR	0.22				Sensitivity Evaluation		

Radiological							Units: (Bq/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Potassium-40	521.7000	514	A		1.5	360 - 668	43.2900	A
Strontium-90	NR	545				382 - 709		
Technetium-99	NR					False Positive Test		
Thorium-228	NR	42.9				30.0 - 55.8		
Thorium-230	NR	47				33 - 61		
Thorium-232	NR	38.5				27.0 - 50.1		
Uranium-234	NR	34.7				24.3 - 45.1		
Uranium-238	NR	34.7				24.3 - 45.1		
Zinc-65	436.6000	434	A		0.6	304 - 564	18.7590	A

Radiological Reference Date: February 1, 2026

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

(5) = Total Metal

(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



Department of Energy RESL - 1955 Fremont Ave, MS4149 - Idaho Falls, ID 83415

Laboratory Results For MAPEP-26-MaS54

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

Radiation Lab

Abu Dhabi, Abu Dhabi 853

Inorganic							Units: (mg/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Antimony	NR	5.77				4.04 - 7.50		
Arsenic	NR	7.4				5.2 - 9.6		
Barium	NR	129				90 - 168		
Beryllium	NR	1.62				1.13 - 2.11		
Cadmium	NR	0.584				0.409 - 0.759		
Chromium	NR	11.9				8.3 - 15.5		
Cobalt	NR	5.73				4.01 - 7.45		
Copper	NR	14.4				10.1 - 18.7		
Lead	NR	10.8				7.6 - 14.0		
Mercury	NR	0.0686				0.0480 - 0.0892		
Molybdenum	NR	1.00				0.70 - 1.30		
Nickel	NR	11.9				8.3 - 15.5		
Selenium	NR	1.75				1.23 - 2.28		
Silver	NR	1.94				1.36 - 2.52		
Technetium-99	NR					False Positive Test		
Thallium	NR	1.30				0.91 - 1.69		
Uranium-235	NR	0.0203				0.0142 - 0.0264		
Uranium-238	NR	2.79				1.95 - 3.63		
Uranium-Total	NR	2.81				1.97 - 3.65		
Vanadium	NR	35.6				24.9 - 46.3		
Zinc	NR	49				34 - 64		

Radiological							Units: (Bq/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	NR	0.30				Sensitivity Evaluation		
Cesium-134	707.5	627	A		12.8	439 - 815	57.30	A
Cesium-137	839.50	728	A		15.3	510 - 946	101.20	A
Cobalt-57	660	558	A		18.3	391 - 725	95.2	A
Cobalt-60	NR		N	(11)		False Positive Test		
Iron-55	NR	980				686 - 1274		
Manganese-54	442.50	387	A		14.3	271 - 503	45.60	A
Neptunium-237	NR	15.70				10.99 - 20.41		
Nickel-63	NR	1230				861 - 1599		
Plutonium-238	NR					False Positive Test		
Plutonium-239/240	NR	0.22				Sensitivity Evaluation		

Radiological						Units: (Bq/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Potassium-40	536.50	514	A		4.4	360 - 668	51 A
Strontium-90	NR	545				382 - 709	
Technetium-99	NR					False Positive Test	
Thorium-228	NR	42.9				30.0 - 55.8	
Thorium-230	NR	47				33 - 61	
Thorium-232	NR	38.5				27.0 - 50.1	
Uranium-234	NR	34.7				24.3 - 45.1	
Uranium-238	NR	34.7				24.3 - 45.1	
Zinc-65	486.50	434	A		12.1	304 - 564	40.5 A

Radiological Reference Date: February 1, 2026

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

(5) = Total Metal

(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



Department of Energy RESL - 1955 Fremont Ave, MS4149 - Idaho Falls, ID 83415

Laboratory Results For MAPEP-26-MaS54

(AFOH01) USAFSAM/OEA

2510 Fifth Street, Area B

Wright-Patterson AFB, OH 45433-7913

Inorganic							Units: (mg/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Antimony	NR	5.77				4.04 - 7.50		
Arsenic	NR	7.4				5.2 - 9.6		
Barium	NR	129				90 - 168		
Beryllium	NR	1.62				1.13 - 2.11		
Cadmium	NR	0.584				0.409 - 0.759		
Chromium	NR	11.9				8.3 - 15.5		
Cobalt	NR	5.73				4.01 - 7.45		
Copper	NR	14.4				10.1 - 18.7		
Lead	NR	10.8				7.6 - 14.0		
Mercury	NR	0.0686				0.0480 - 0.0892		
Molybdenum	NR	1.00				0.70 - 1.30		
Nickel	NR	11.9				8.3 - 15.5		
Selenium	NR	1.75				1.23 - 2.28		
Silver	NR	1.94				1.36 - 2.52		
Technetium-99	NR					False Positive Test		
Thallium	NR	1.30				0.91 - 1.69		
Uranium-235	NR	0.0203				0.0142 - 0.0264		
Uranium-238	NR	2.79				1.95 - 3.63		
Uranium-Total	NR	2.81				1.97 - 3.65		
Vanadium	NR	35.6				24.9 - 46.3		
Zinc	NR	49				34 - 64		

Radiological							Units: (Bq/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	-0.4	0.30	A	(17)		Sensitivity Evaluation	0.6	
Cesium-134	594	627	A		-5.3	439 - 815	14	A
Cesium-137	682	728	A		-6.3	510 - 946	23	A
Cobalt-57	534	558	A		-4.3	391 - 725	19	A
Cobalt-60	0.01		A			False Positive Test	0.32	
Iron-55	NR	980				686 - 1274		
Manganese-54	356	387	A		-8.0	271 - 503	11	A
Neptunium-237	14	15.70	A		-10.8	10.99 - 20.41	1	A
Nickel-63	NR	1230				861 - 1599		
Plutonium-238	0.2		A			False Positive Test	0.3	
Plutonium-239/240	0.9	0.22	A	(17)		Sensitivity Evaluation	0.5	

Radiological						Units: (Bq/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Potassium-40	448	514	A		-12.8	360 - 668	16 A
Strontium-90	435	545	W		-20.2	382 - 709	24 A
Technetium-99	NR					False Positive Test	
Thorium-228	46	42.9	A		7.2	30.0 - 55.8	4 A
Thorium-230	50.7	47	A		7.9	33 - 61	4.0 A
Thorium-232	38.5	38.5	A		0.0	27.0 - 50.1	3.3 A
Uranium-234	35.5	34.7	A		2.3	24.3 - 45.1	3.3 A
Uranium-238	31.0	34.7	A		-10.7	24.3 - 45.1	3.1 A
Zinc-65	403	434	A		-7.1	304 - 564	12 A

Radiological Reference Date: February 1, 2026

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

(5) = Total Metal

(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



Department of Energy RESL - 1955 Fremont Ave, MS4149 - Idaho Falls, ID 83415

Laboratory Results For MAPEP-26-MaS54

(AMEC99) Amentum Clean Energy Ltd

612 Faraday Street

Birchwood Park, Warrington WA3 6GN

Inorganic							Units: (mg/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Antimony	NR	5.77				4.04 - 7.50		
Arsenic	NR	7.4				5.2 - 9.6		
Barium	NR	129				90 - 168		
Beryllium	NR	1.62				1.13 - 2.11		
Cadmium	NR	0.584				0.409 - 0.759		
Chromium	NR	11.9				8.3 - 15.5		
Cobalt	NR	5.73				4.01 - 7.45		
Copper	NR	14.4				10.1 - 18.7		
Lead	NR	10.8				7.6 - 14.0		
Mercury	NR	0.0686				0.0480 - 0.0892		
Molybdenum	NR	1.00				0.70 - 1.30		
Nickel	NR	11.9				8.3 - 15.5		
Selenium	NR	1.75				1.23 - 2.28		
Silver	NR	1.94				1.36 - 2.52		
Technetium-99	NR					False Positive Test		
Thallium	NR	1.30				0.91 - 1.69		
Uranium-235	NR	0.0203				0.0142 - 0.0264		
Uranium-238	NR	2.79				1.95 - 3.63		
Uranium-Total	NR	2.81				1.97 - 3.65		
Vanadium	NR	35.6				24.9 - 46.3		
Zinc	NR	49				34 - 64		

Radiological							Units: (Bq/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	1.7	0.30	A	(17)		Sensitivity Evaluation	1.6	
Cesium-134	579	627	A		-7.7	439 - 815	20	A
Cesium-137	736	728	A		1.1	510 - 946	26	A
Cobalt-57	555	558	A		-0.5	391 - 725	21	A
Cobalt-60	0.46		A			False Positive Test	0.57	
Iron-55	880	980	A		-10.2	686 - 1274	290	N
Manganese-54	385	387	A		-0.5	271 - 503	14	A
Neptunium-237	17.7	15.70	A		12.7	10.99 - 20.41	2.1	A
Nickel-63	NR	1230				861 - 1599		
Plutonium-238	NR		N	(11)		False Positive Test		
Plutonium-239/240	NR	0.22	N	(18)		Sensitivity Evaluation		

Radiological						Units: (Bq/kg)		
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Potassium-40	497	514	A		-3.3	360 - 668	19	A
Strontium-90	NR	545				382 - 709		
Technetium-99	NR					False Positive Test		
Thorium-228	52.7	42.9	W		22.8	30.0 - 55.8	5.5	A
Thorium-230	57.7	47	W		22.8	33 - 61	5.9	A
Thorium-232	47.2	38.5	W		22.6	27.0 - 50.1	4.9	A
Uranium-234	33.6	34.7	A		-3.2	24.3 - 45.1	1.2	A
Uranium-238	30.3	34.7	A		-12.7	24.3 - 45.1	1.1	A
Zinc-65	449	434	A		3.5	304 - 564	16	A

Radiological Reference Date: February 1, 2026

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

(5) = Total Metal

(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



Department of Energy RESL - 1955 Fremont Ave, MS4149 - Idaho Falls, ID 83415

Laboratory Results For MAPEP-26-MaS54

(ARSL01) ARS

2609 North River Road

Port Allen, LA 70767

Inorganic							Units: (mg/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Antimony	NR	5.77				4.04 - 7.50		
Arsenic	NR	7.4				5.2 - 9.6		
Barium	NR	129				90 - 168		
Beryllium	NR	1.62				1.13 - 2.11		
Cadmium	NR	0.584				0.409 - 0.759		
Chromium	NR	11.9				8.3 - 15.5		
Cobalt	NR	5.73				4.01 - 7.45		
Copper	NR	14.4				10.1 - 18.7		
Lead	NR	10.8				7.6 - 14.0		
Mercury	NR	0.0686				0.0480 - 0.0892		
Molybdenum	NR	1.00				0.70 - 1.30		
Nickel	NR	11.9				8.3 - 15.5		
Selenium	NR	1.75				1.23 - 2.28		
Silver	NR	1.94				1.36 - 2.52		
Technetium-99	NR					False Positive Test		
Thallium	NR	1.30				0.91 - 1.69		
Uranium-235	NR	0.0203				0.0142 - 0.0264		
Uranium-238	NR	2.79				1.95 - 3.63		
Uranium-Total	NR	2.81				1.97 - 3.65		
Vanadium	NR	35.6				24.9 - 46.3		
Zinc	NR	49				34 - 64		

Radiological							Units: (Bq/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	1.396	0.30	A	(17)		Sensitivity Evaluation	0.547	
Cesium-134	520.71	627	A		-17.0	439 - 815	17.785	A
Cesium-137	652.86	728	A		-10.3	510 - 946	15.936	A
Cobalt-57	488.05	558	A		-12.5	391 - 725	17.24	A
Cobalt-60	5.163		N	(1)		False Positive Test	0.408	
Iron-55	NR	980				686 - 1274		
Manganese-54	353.4	387	A		-8.7	271 - 503	12.091	A
Neptunium-237	NR	15.70				10.99 - 20.41		
Nickel-63	NR	1230				861 - 1599		
Plutonium-238	NR					False Positive Test		
Plutonium-239/240	NR	0.22				Sensitivity Evaluation		

Radiological							Units: (Bq/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Potassium-40	491.04	514	A		-4.5	360 - 668	19.034	A
Strontium-90	NR	545				382 - 709		
Technetium-99	-7.679		A			False Positive Test	28.549	
Thorium-228	NR	42.9				30.0 - 55.8		
Thorium-230	NR	47				33 - 61		
Thorium-232	NR	38.5				27.0 - 50.1		
Uranium-234	NR	34.7				24.3 - 45.1		
Uranium-238	NR	34.7				24.3 - 45.1		
Zinc-65	442.79	434	A		2.0	304 - 564	15.029	A

Radiological Reference Date: February 1, 2026

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

(5) = Total Metal

(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



Department of Energy RESL - 1955 Fremont Ave, MS4149 - Idaho Falls, ID 83415

Laboratory Results For MAPEP-26-MaS54

(AY1201) Consolidated Nuclear Security, LLC, ACO Laboratory

Y12, NSC, Bldg. 9995, Rm 142

Oak Ridge, TN 37831-8189

Inorganic							Units: (mg/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Antimony	NR	5.77				4.04 - 7.50		
Arsenic	7.16	7.4	A		-3.2	5.2 - 9.6	0.947	A
Barium	138	129	A		7.0	90 - 168	5.617	A
Beryllium	1.78	1.62	A		9.9	1.13 - 2.11	0.111	A
Cadmium	0.549	0.584	A		-6.0	0.409 - 0.759	0.061	A
Chromium	14.2	11.9	A		19.3	8.3 - 15.5	0.447	A
Cobalt	5.69	5.73	A		-0.7	4.01 - 7.45	0.568	A
Copper	15.0	14.4	A		4.2	10.1 - 18.7	1.859	A
Lead	11.7	10.8	A		8.3	7.6 - 14.0	0.763	A
Mercury	0.0595	0.0686	A		-13.3	0.0480 - 0.0892	0.0062	A
Molybdenum	NR	1.00				0.70 - 1.30		
Nickel	12.9	11.9	A		8.4	8.3 - 15.5	0.637	A
Selenium	3.92	1.75	N		124.0	1.23 - 2.28	0.636	W
Silver	1.61	1.94	A		-17.0	1.36 - 2.52	0.165	A
Technetium-99	NR					False Positive Test		
Thallium	1.26	1.30	A		-3.1	0.91 - 1.69	0.155	A
Uranium-235	0.022	0.0203	A		8.4	0.0142 - 0.0264	0.002	A
Uranium-238	2.95	2.79	A		5.7	1.95 - 3.63	0.3	A
Uranium-Total	2.97	2.81	A		5.7	1.97 - 3.65	0.3	A
Vanadium	36.9	35.6	A		3.7	24.9 - 46.3	1.402	A
Zinc	61.1	49	W		24.7	34 - 64	3.825	A

Radiological							Units: (Bq/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	0.706	0.30	A	(17)		Sensitivity Evaluation	0.574	
Cesium-134	NR	627		(6)		439 - 815		
Cesium-137	710	728	A		-2.5	510 - 946	21.8	A
Cobalt-57	555	558	A		-0.5	391 - 725	15.1	A
Cobalt-60	4.00		N	(1)		False Positive Test	0.513	
Iron-55	NR	980				686 - 1274		
Manganese-54	385	387	A		-0.5	271 - 503	118	N
Neptunium-237	NR	15.70				10.99 - 20.41		
Nickel-63	NR	1230				861 - 1599		
Plutonium-238	0.502		A			False Positive Test	0.614	
Plutonium-239/240	0.124	0.22	A	(17)		Sensitivity Evaluation	0.325	

Radiological						Units: (Bq/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Potassium-40	533	514	A		3.7	360 - 668	4.35 N
Strontium-90	540	545	A		-0.9	382 - 709	21 A
Technetium-99	-26.1		A			False Positive Test	17.4
Thorium-228	45.9	42.9	A		7.0	30.0 - 55.8	3.48 A
Thorium-230	49.2	47	A		4.7	33 - 61	4.96 A
Thorium-232	41.2	38.5	A		7.0	27.0 - 50.1	3.18 A
Uranium-234	37	34.7	A		6.6	24.3 - 45.1	3.8 A
Uranium-238	41	34.7	A		18.2	24.3 - 45.1	4.1 A
Zinc-65	455	434	A		4.8	304 - 564	64.0 A

Radiological Reference Date: February 1, 2026

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

(5) = Total Metal

(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



Department of Energy RESL - 1955 Fremont Ave, MS4149 - Idaho Falls, ID 83415

Laboratory Results For MAPEP-26-MaS54
 (BSCE99) Supreme Council for Environment
 P. O. Box 18233
 Manama, Manama 18233

Inorganic							Units: (mg/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Antimony	NR	5.77				4.04 - 7.50		
Arsenic	NR	7.4				5.2 - 9.6		
Barium	NR	129				90 - 168		
Beryllium	NR	1.62				1.13 - 2.11		
Cadmium	NR	0.584				0.409 - 0.759		
Chromium	NR	11.9				8.3 - 15.5		
Cobalt	NR	5.73				4.01 - 7.45		
Copper	NR	14.4				10.1 - 18.7		
Lead	NR	10.8				7.6 - 14.0		
Mercury	NR	0.0686				0.0480 - 0.0892		
Molybdenum	NR	1.00				0.70 - 1.30		
Nickel	NR	11.9				8.3 - 15.5		
Selenium	NR	1.75				1.23 - 2.28		
Silver	NR	1.94				1.36 - 2.52		
Technetium-99	NR					False Positive Test		
Thallium	NR	1.30				0.91 - 1.69		
Uranium-235	NR	0.0203				0.0142 - 0.0264		
Uranium-238	NR	2.79				1.95 - 3.63		
Uranium-Total	NR	2.81				1.97 - 3.65		
Vanadium	NR	35.6				24.9 - 46.3		
Zinc	NR	49				34 - 64		

Radiological							Units: (Bq/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	NR	0.30	N	(18)		Sensitivity Evaluation		
Cesium-134	604.25	627	A		-3.6	439 - 815	28.76	A
Cesium-137	711.54	728	A		-2.3	510 - 946	59.56	A
Cobalt-57	525.48	558	A		-5.8	391 - 725	49.18	A
Cobalt-60	0.19		N	(1)		False Positive Test	0.04	
Iron-55	NR	980				686 - 1274		
Manganese-54	372.95	387	A		-3.6	271 - 503	31.10	A
Neptunium-237	NR	15.70				10.99 - 20.41		
Nickel-63	NR	1230				861 - 1599		
Plutonium-238	NR					False Positive Test		
Plutonium-239/240	NR	0.22				Sensitivity Evaluation		

Radiological						Units: (Bq/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Potassium-40	463.25	514	A		-9.9	360 - 668	30.81 A
Strontium-90	NR	545				382 - 709	
Technetium-99	NR					False Positive Test	
Thorium-228	NR	42.9				30.0 - 55.8	
Thorium-230	NR	47				33 - 61	
Thorium-232	46.13	38.5	A		19.8	27.0 - 50.1	3.03 A
Uranium-234	NR	34.7				24.3 - 45.1	
Uranium-238	28.82	34.7	A		-16.9	24.3 - 45.1	3.28 A
Zinc-65	423.33	434	A		-2.5	304 - 564	26.88 A

Radiological Reference Date: February 1, 2026

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

(5) = Total Metal

(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



Department of Energy RESL - 1955 Fremont Ave, MS4149 - Idaho Falls, ID 83415

Laboratory Results For MAPEP-26-MaS54

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

Y12, NSC, Bldg. 9995, Rm 142

Oak Ridge, TN 37831-8189

Inorganic							Units: (mg/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Antimony	NR	5.77				4.04 - 7.50		
Arsenic	NR	7.4				5.2 - 9.6		
Barium	NR	129				90 - 168		
Beryllium	NR	1.62				1.13 - 2.11		
Cadmium	NR	0.584				0.409 - 0.759		
Chromium	NR	11.9				8.3 - 15.5		
Cobalt	NR	5.73				4.01 - 7.45		
Copper	NR	14.4				10.1 - 18.7		
Lead	NR	10.8				7.6 - 14.0		
Mercury	NR	0.0686				0.0480 - 0.0892		
Molybdenum	NR	1.00				0.70 - 1.30		
Nickel	NR	11.9				8.3 - 15.5		
Selenium	NR	1.75				1.23 - 2.28		
Silver	NR	1.94				1.36 - 2.52		
Technetium-99	NR					False Positive Test		
Thallium	NR	1.30				0.91 - 1.69		
Uranium-235	NR	0.0203				0.0142 - 0.0264		
Uranium-238	NR	2.79				1.95 - 3.63		
Uranium-Total	NR	2.81				1.97 - 3.65		
Vanadium	NR	35.6				24.9 - 46.3		
Zinc	NR	49				34 - 64		

Radiological							Units: (Bq/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	0.148	0.30	A	(17)		Sensitivity Evaluation	0.76	
Cesium-134	NR	627		(6)		439 - 815		
Cesium-137	787.261	728	A		8.1	510 - 946	16.762	A
Cobalt-57	531.062	558	A		-4.8	391 - 725	9.660	N
Cobalt-60	4.971		N	(1)		False Positive Test	0.377	
Iron-55	NR	980				686 - 1274		
Manganese-54	384.431	387	A		-0.7	271 - 503	8.079	A
Neptunium-237	NR	15.70				10.99 - 20.41		
Nickel-63	NR	1230				861 - 1599		
Plutonium-238	-0.44		A			False Positive Test	.66	
Plutonium-239/240	-0.176	0.22	A	(17)		Sensitivity Evaluation	0.45	

Radiological							Units: (Bq/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Potassium-40	596.398	514	A		16.0	360 - 668	19.372	A
Strontium-90	418.56	545	W		-23.2	382 - 709	20.12	A
Technetium-99	86.00		N	(1)		False Positive Test	20.66	
Thorium-228	40.70	42.9	A		-5.1	30.0 - 55.8	5.00	A
Thorium-230	43.00	47	A		-8.5	33 - 61	5.35	A
Thorium-232	39.4	38.5	A		2.3	27.0 - 50.1	5.00	A
Uranium-234	37.6	34.7	A		8.4	24.3 - 45.1	4.97	A
Uranium-238	27.9	34.7	A		-19.6	24.3 - 45.1	3.99	A
Zinc-65	443.775	434	A		2.3	304 - 564	10.881	A

Radiological Reference Date: February 1, 2026

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%

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

Notes:

(1) = False Positive

(5) = Total Metal

(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



Department of Energy RESL - 1955 Fremont Ave, MS4149 - Idaho Falls, ID 83415

Laboratory Results For MAPEP-26-MaS54
 (CDHS01) California Department of Public Health
 Drinking Water & Radiation Lab.
 Richmond, CA 94804-6403

Inorganic							Units: (mg/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Antimony	NR	5.77				4.04 - 7.50		
Arsenic	NR	7.4				5.2 - 9.6		
Barium	NR	129				90 - 168		
Beryllium	NR	1.62				1.13 - 2.11		
Cadmium	NR	0.584				0.409 - 0.759		
Chromium	NR	11.9				8.3 - 15.5		
Cobalt	NR	5.73				4.01 - 7.45		
Copper	NR	14.4				10.1 - 18.7		
Lead	NR	10.8				7.6 - 14.0		
Mercury	NR	0.0686				0.0480 - 0.0892		
Molybdenum	NR	1.00				0.70 - 1.30		
Nickel	NR	11.9				8.3 - 15.5		
Selenium	NR	1.75				1.23 - 2.28		
Silver	NR	1.94				1.36 - 2.52		
Technetium-99	NR					False Positive Test		
Thallium	NR	1.30				0.91 - 1.69		
Uranium-235	NR	0.0203				0.0142 - 0.0264		
Uranium-238	NR	2.79				1.95 - 3.63		
Uranium-Total	NR	2.81				1.97 - 3.65		
Vanadium	NR	35.6				24.9 - 46.3		
Zinc	NR	49				34 - 64		

Radiological							Units: (Bq/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	0.146	0.30	A	(17)		Sensitivity Evaluation	0.178	
Cesium-134	609	627	A		-2.9	439 - 815	29.8	A
Cesium-137	804	728	A		10.4	510 - 946	37.2	A
Cobalt-57	607	558	A		8.8	391 - 725	20.0	A
Cobalt-60	0.577		A			False Positive Test	0.599	
Iron-55	NR	980				686 - 1274		
Manganese-54	431	387	A		11.4	271 - 503	16.6	A
Neptunium-237	NR	15.70				10.99 - 20.41		
Nickel-63	NR	1230				861 - 1599		
Plutonium-238	0.220		A			False Positive Test	0.140	
Plutonium-239/240	0.0726	0.22	A	(17)		Sensitivity Evaluation	0.151	

Radiological							Units: (Bq/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Potassium-40	577	514	A		12.3	360 - 668	29.2	A
Strontium-90	430	545	W		-21.1	382 - 709	4.27	N
Technetium-99	91.0		N	(1)		False Positive Test	16.7	
Thorium-228	37.7	42.9	A		-12.1	30.0 - 55.8	1.21	A
Thorium-230	43.6	47	A		-7.2	33 - 61	1.28	A
Thorium-232	39.5	38.5	A		2.6	27.0 - 50.1	1.19	A
Uranium-234	45.7	34.7	N		31.7	24.3 - 45.1	1.97	A
Uranium-238	30.6	34.7	A		-11.8	24.3 - 45.1	1.56	A
Zinc-65	412	434	A		-5.1	304 - 564	15.4	A

Radiological Reference Date: February 1, 2026

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

(5) = Total Metal

(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



Department of Energy RESL - 1955 Fremont Ave, MS4149 - Idaho Falls, ID 83415

Laboratory Results For MAPEP-26-MaS54

(CESL01) Lawrence Livermore National Laboratory - EMRL

7000 East Avenue

Livermore, CA 94551

Inorganic							Units: (mg/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Antimony	NR	5.77				4.04 - 7.50		
Arsenic	NR	7.4				5.2 - 9.6		
Barium	NR	129				90 - 168		
Beryllium	NR	1.62				1.13 - 2.11		
Cadmium	NR	0.584				0.409 - 0.759		
Chromium	NR	11.9				8.3 - 15.5		
Cobalt	NR	5.73				4.01 - 7.45		
Copper	NR	14.4				10.1 - 18.7		
Lead	NR	10.8				7.6 - 14.0		
Mercury	NR	0.0686				0.0480 - 0.0892		
Molybdenum	NR	1.00				0.70 - 1.30		
Nickel	NR	11.9				8.3 - 15.5		
Selenium	NR	1.75				1.23 - 2.28		
Silver	NR	1.94				1.36 - 2.52		
Technetium-99	NR					False Positive Test		
Thallium	NR	1.30				0.91 - 1.69		
Uranium-235	NR	0.0203				0.0142 - 0.0264		
Uranium-238	NR	2.79				1.95 - 3.63		
Uranium-Total	NR	2.81				1.97 - 3.65		
Vanadium	NR	35.6				24.9 - 46.3		
Zinc	NR	49				34 - 64		

Radiological							Units: (Bq/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	NR	0.30				Sensitivity Evaluation		
Cesium-134	6.23E+02	627	A		-0.6	439 - 815	1.34	A
Cesium-137	7.40E+02	728	A		1.6	510 - 946	3.13	A
Cobalt-57	5.57E+02	558	A		-0.2	391 - 725	1.78	A
Cobalt-60	1.16E+00		A			False Positive Test	7.15E-01	
Iron-55	NR	980				686 - 1274		
Manganese-54	3.75E+02	387	A		-3.1	271 - 503	1.34	A
Neptunium-237	NR	15.70				10.99 - 20.41		
Nickel-63	NR	1230				861 - 1599		
Plutonium-238	9.21E-02		A			False Positive Test	7.76E-02	
Plutonium-239/240	3.48E-01	0.22	A	(17)		Sensitivity Evaluation	1.20E-01	

Radiological							Units: (Bq/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Potassium-40	4.74E+02	514	A		-7.8	360 - 668	3.80	A
Strontium-90	NR	545				382 - 709		
Technetium-99	NR					False Positive Test		
Thorium-228	NR	42.9				30.0 - 55.8		
Thorium-230	NR	47				33 - 61		
Thorium-232	NR	38.5				27.0 - 50.1		
Uranium-234	NR	34.7				24.3 - 45.1		
Uranium-238	NR	34.7				24.3 - 45.1		
Zinc-65	4.45E+02	434	A		2.5	304 - 564	1.77	A

Radiological Reference Date: February 1, 2026

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

(5) = Total Metal

(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



Department of Energy RESL - 1955 Fremont Ave, MS4149 - Idaho Falls, ID 83415

Laboratory Results For MAPEP-26-MaS54

(CMRC01) Carlsbad Environmental Monitoring and Research Center

1400 University Dr.

Carlsbad, NM 88220

Inorganic							Units: (mg/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Antimony	NR	5.77				4.04 - 7.50		
Arsenic	NR	7.4				5.2 - 9.6		
Barium	NR	129				90 - 168		
Beryllium	NR	1.62				1.13 - 2.11		
Cadmium	NR	0.584				0.409 - 0.759		
Chromium	NR	11.9				8.3 - 15.5		
Cobalt	NR	5.73				4.01 - 7.45		
Copper	NR	14.4				10.1 - 18.7		
Lead	NR	10.8				7.6 - 14.0		
Mercury	NR	0.0686				0.0480 - 0.0892		
Molybdenum	NR	1.00				0.70 - 1.30		
Nickel	NR	11.9				8.3 - 15.5		
Selenium	NR	1.75				1.23 - 2.28		
Silver	NR	1.94				1.36 - 2.52		
Technetium-99	NR					False Positive Test		
Thallium	NR	1.30				0.91 - 1.69		
Uranium-235	NR	0.0203				0.0142 - 0.0264		
Uranium-238	NR	2.79				1.95 - 3.63		
Uranium-Total	NR	2.81				1.97 - 3.65		
Vanadium	NR	35.6				24.9 - 46.3		
Zinc	NR	49				34 - 64		

Radiological							Units: (Bq/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	3.43E-01	0.30	A	(17)		Sensitivity Evaluation	1.53E-01	
Cesium-134	5.97E+02	627	A		-4.8	439 - 815	8.93	N
Cesium-137	7.98E+02	728	A		9.6	510 - 946	1.20	N
Cobalt-57	5.91E+02	558	A		5.9	391 - 725	1.82	A
Cobalt-60	1.73E+00		N	(1)		False Positive Test	4.80E-01	
Iron-55	NR	980				686 - 1274		
Manganese-54	4.21E+02	387	A		8.8	271 - 503	6.25	N
Neptunium-237	1.72E+01	15.70	A		9.6	10.99 - 20.41	8.98E-01	A
Nickel-63	NR	1230				861 - 1599		
Plutonium-238	-1.07E+01		A			False Positive Test	5.01	
Plutonium-239/240	-1.45E+03	0.22	N	(29)		Sensitivity Evaluation	2.99	

Radiological						Units: (Bq/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Potassium-40	5.49E+02	514	A		6.8	360 - 668	1.34 A
Strontium-90	4.32E+02	545	W		-20.7	382 - 709	5.92 N
Technetium-99	NR					False Positive Test	
Thorium-228	NR	42.9				30.0 - 55.8	
Thorium-230	NR	47				33 - 61	
Thorium-232	NR	38.5				27.0 - 50.1	
Uranium-234	2.86E+01	34.7	A		-17.6	24.3 - 45.1	3.21 A
Uranium-238	2.75E+01	34.7	W		-20.7	24.3 - 45.1	3.09 A
Zinc-65	4.75E+02	434	A		9.4	304 - 564	7.20 N

Radiological Reference Date: February 1, 2026

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

(5) = Total Metal

(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



Department of Energy RESL - 1955 Fremont Ave, MS4149 - Idaho Falls, ID 83415

Laboratory Results For MAPEP-26-MaS54

(EFGS01) Eurofins Environment Testing Seattle

5755 8th St. E

Tacoma, WA 98424

Inorganic							Units: (mg/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Antimony	NR	5.77				4.04 - 7.50		
Arsenic	NR	7.4				5.2 - 9.6		
Barium	NR	129				90 - 168		
Beryllium	NR	1.62				1.13 - 2.11		
Cadmium	NR	0.584				0.409 - 0.759		
Chromium	NR	11.9				8.3 - 15.5		
Cobalt	NR	5.73				4.01 - 7.45		
Copper	NR	14.4				10.1 - 18.7		
Lead	NR	10.8				7.6 - 14.0		
Mercury	0.057	0.0686	A		-16.9	0.0480 - 0.0892	0.003	A
Molybdenum	NR	1.00				0.70 - 1.30		
Nickel	NR	11.9				8.3 - 15.5		
Selenium	NR	1.75				1.23 - 2.28		
Silver	NR	1.94				1.36 - 2.52		
Technetium-99	NR					False Positive Test		
Thallium	NR	1.30				0.91 - 1.69		
Uranium-235	NR	0.0203				0.0142 - 0.0264		
Uranium-238	NR	2.79				1.95 - 3.63		
Uranium-Total	NR	2.81				1.97 - 3.65		
Vanadium	NR	35.6				24.9 - 46.3		
Zinc	NR	49				34 - 64		

Radiological							Units: (Bq/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	NR	0.30				Sensitivity Evaluation		
Cesium-134	NR	627				439 - 815		
Cesium-137	NR	728				510 - 946		
Cobalt-57	NR	558				391 - 725		
Cobalt-60	NR					False Positive Test		
Iron-55	NR	980				686 - 1274		
Manganese-54	NR	387				271 - 503		
Neptunium-237	NR	15.70				10.99 - 20.41		
Nickel-63	NR	1230				861 - 1599		
Plutonium-238	NR					False Positive Test		
Plutonium-239/240	NR	0.22				Sensitivity Evaluation		

Radiological						Units: (Bq/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Potassium-40	NR	514				360 - 668	
Strontium-90	NR	545				382 - 709	
Technetium-99	NR					False Positive Test	
Thorium-228	NR	42.9				30.0 - 55.8	
Thorium-230	NR	47				33 - 61	
Thorium-232	NR	38.5				27.0 - 50.1	
Uranium-234	NR	34.7				24.3 - 45.1	
Uranium-238	NR	34.7				24.3 - 45.1	
Zinc-65	NR	434				304 - 564	

Radiological Reference Date: February 1, 2026

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

(5) = Total Metal

(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



Department of Energy RESL - 1955 Fremont Ave, MS4149 - Idaho Falls, ID 83415

Laboratory Results For MAPEP-26-MaS54

(ERCL01) Washington State Public Health Laboratories

1610 N.E. 150th Street

Shoreline, WA 98155-9701

Inorganic							Units: (mg/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Antimony	NR	5.77				4.04 - 7.50		
Arsenic	NR	7.4				5.2 - 9.6		
Barium	NR	129				90 - 168		
Beryllium	NR	1.62				1.13 - 2.11		
Cadmium	NR	0.584				0.409 - 0.759		
Chromium	NR	11.9				8.3 - 15.5		
Cobalt	NR	5.73				4.01 - 7.45		
Copper	NR	14.4				10.1 - 18.7		
Lead	NR	10.8				7.6 - 14.0		
Mercury	NR	0.0686				0.0480 - 0.0892		
Molybdenum	NR	1.00				0.70 - 1.30		
Nickel	NR	11.9				8.3 - 15.5		
Selenium	NR	1.75				1.23 - 2.28		
Silver	NR	1.94				1.36 - 2.52		
Technetium-99	NR					False Positive Test		
Thallium	NR	1.30				0.91 - 1.69		
Uranium-235	0.0177	0.0203	A		-12.8	0.0142 - 0.0264	0.0024	A
Uranium-238	2.52	2.79	A		-9.7	1.95 - 3.63	0.34	A
Uranium-Total	2.54	2.81	A		-9.6	1.97 - 3.65	0.34	A
Vanadium	NR	35.6				24.9 - 46.3		
Zinc	NR	49				34 - 64		

Radiological							Units: (Bq/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	0.22	0.30	A	(17)		Sensitivity Evaluation	0.58	
Cesium-134	744	627	A		18.7	439 - 815	4	N
Cesium-137	770	728	A		5.8	510 - 946	8	N
Cobalt-57	577	558	A		3.4	391 - 725	6	N
Cobalt-60	0.04		A			False Positive Test	0.24	
Iron-55	NR	980				686 - 1274		
Manganese-54	407	387	A		5.2	271 - 503	30	A
Neptunium-237	NR	15.70				10.99 - 20.41		
Nickel-63	NR	1230				861 - 1599		
Plutonium-238	0.52		A			False Positive Test	0.58	
Plutonium-239/240	0.11	0.22	A	(17)		Sensitivity Evaluation	0.42	

Radiological							Units: (Bq/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Potassium-40	496	514	A		-3.5	360 - 668	26	A
Strontium-90	566	545	A		3.9	382 - 709	17	A
Technetium-99	NR					False Positive Test		
Thorium-228	64.8	42.9	N		51.0	30.0 - 55.8	6.4	A
Thorium-230	55.1	47	A		17.2	33 - 61	5.5	A
Thorium-232	52.2	38.5	N		35.6	27.0 - 50.1	5.1	A
Uranium-234	35.9	34.7	A		3.5	24.3 - 45.1	2.6	A
Uranium-238	38.1	34.7	A		9.8	24.3 - 45.1	2.8	A
Zinc-65	451	434	A		3.9	304 - 564	6	N

Radiological Reference Date: February 1, 2026

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

(5) = Total Metal

(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



Department of Energy RESL - 1955 Fremont Ave, MS4149 - Idaho Falls, ID 83415

Laboratory Results For MAPEP-26-MaS54

(ERHD99) National Monitoring Section, Radiation Protection Bureau, Health Canada

775 Brookfield Road AL6302D1

Ottawa, Ontario K1A 1C1

Inorganic							Units: (mg/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Antimony	0.044	5.77	N		-99.2	4.04 - 7.50	0.01	W
Arsenic	6.37	7.4	A		-13.9	5.2 - 9.6	0.2	A
Barium	NR	129				90 - 168		
Beryllium	1.92	1.62	A		18.5	1.13 - 2.11	0.07	A
Cadmium	0.579	0.584	A		-0.9	0.409 - 0.759	0.0075	N
Chromium	NR	11.9				8.3 - 15.5		
Cobalt	7.12	5.73	W		24.3	4.01 - 7.45	0.1	N
Copper	13.9	14.4	A		-3.5	10.1 - 18.7	0.5	A
Lead	10.5	10.8	A		-2.8	7.6 - 14.0	0.07	N
Mercury	NR	0.0686				0.0480 - 0.0892		
Molybdenum	0.584	1.00	N		-41.6	0.70 - 1.30	0.02	A
Nickel	12	11.9	A		0.8	8.3 - 15.5	0.2	N
Selenium	1.88	1.75	A		7.4	1.23 - 2.28	0.15	A
Silver	2	1.94	A		3.1	1.36 - 2.52	0.04	A
Technetium-99	NR					False Positive Test		
Thallium	1.26	1.30	A		-3.1	0.91 - 1.69	0.08	A
Uranium-235	0.006	0.0203	N		-70.4	0.0142 - 0.0264	0.0001	N
Uranium-238	0.82	2.79	N		-70.6	1.95 - 3.63	0.1	A
Uranium-Total	NR	2.81				1.97 - 3.65		
Vanadium	39.4	35.6	A		10.7	24.9 - 46.3	0.5	N
Zinc	54.8	49	A		11.8	34 - 64	2.5	A

Radiological							Units: (Bq/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	3.65	0.30	A	(17)		Sensitivity Evaluation	4.9	
Cesium-134	645	627	A		2.9	439 - 815	32	A
Cesium-137	762	728	A		4.7	510 - 946	38	A
Cobalt-57	598	558	A		7.2	391 - 725	30	A
Cobalt-60	1.6		A			False Positive Test	3.2	
Iron-55	NR	980				686 - 1274		
Lead-210	48.4			(6)			3.8	A
Manganese-54	406	387	A		4.9	271 - 503	21	A
Neptunium-237	13.2	15.70	A		-15.9	10.99 - 20.41	0.7	A
Nickel-63	NR	1230				861 - 1599		
Plutonium-238	1.00		A			False Positive Test	1.7	

Radiological							Units: (Bq/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Plutonium-239/240	2.31	0.22	A	(17)		Sensitivity Evaluation	2.4	
Potassium-40	511	514	A		-0.6	360 - 668	26	A
Strontium-90	557	545	A		2.2	382 - 709	23	A
Technetium-99	NR					False Positive Test		
Thorium-228	41.0	42.9	A		-4.4	30.0 - 55.8	2.4	A
Thorium-230	64.3	47	N		36.8	33 - 61	2.9	A
Thorium-232	30.6	38.5	W		-20.5	27.0 - 50.1	2.0	A
Uranium-234	31.9	34.7	A		-8.1	24.3 - 45.1	1.4	A
Uranium-238	31.5	34.7	A		-9.2	24.3 - 45.1	1.0	A
Zinc-65	472	434	A		8.8	304 - 564	24	A

Radiological Reference Date: February 1, 2026

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

(5) = Total Metal

(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



Department of Energy RESL - 1955 Fremont Ave, MS4149 - Idaho Falls, ID 83415

Laboratory Results For MAPEP-26-MaS54

(ETTP01) MCLinc

161 Mitchell Road

Oak Ridge, Tennessee 37830

Inorganic							Units: (mg/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Antimony	6.0	5.77	A		4.0	4.04 - 7.50	0.60	A
Arsenic	6.8	7.4	A		-8.1	5.2 - 9.6	0.68	A
Barium	135	129	A		4.7	90 - 168	8.05	A
Beryllium	1.9	1.62	A		17.3	1.13 - 2.11	0.14	A
Cadmium	0.63	0.584	A		7.9	0.409 - 0.759	0.046	A
Chromium	13	11.9	A		9.2	8.3 - 15.5	1.34	A
Cobalt	6.4	5.73	A		11.7	4.01 - 7.45	0.40	A
Copper	17.0	14.4	A		18.1	10.1 - 18.7	0.95	A
Lead	11	10.8	A		1.9	7.6 - 14.0	0.60	A
Mercury	0.057	0.0686	A		-16.9	0.0480 - 0.0892	0.0029	A
Molybdenum	NR	1.00				0.70 - 1.30		
Nickel	12	11.9	A		0.8	8.3 - 15.5	0.87	A
Selenium	1.9	1.75	A		8.6	1.23 - 2.28	0.21	A
Silver	2.0	1.94	A		3.1	1.36 - 2.52	0.17	A
Technetium-99	0.000019		A			False Positive Test	0.00019	
Thallium	1.1	1.30	A		-15.4	0.91 - 1.69	0.052	A
Uranium-235	0.014	0.0203	N		-31.0	0.0142 - 0.0264	0.00071	A
Uranium-238	2.090	2.79	W		-25.1	1.95 - 3.63	0.10	A
Uranium-Total	2.1	2.81	W		-25.3	1.97 - 3.65	0.11	A
Vanadium	37	35.6	A		3.9	24.9 - 46.3	3.56	A
Zinc	53	49	A		8.2	34 - 64	9.08	W

Radiological							Units: (Bq/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	NR	0.30				Sensitivity Evaluation		
Cesium-134	NR	627				439 - 815		
Cesium-137	NR	728				510 - 946		
Cobalt-57	NR	558				391 - 725		
Cobalt-60	NR					False Positive Test		
Iron-55	NR	980				686 - 1274		
Manganese-54	NR	387				271 - 503		
Neptunium-237	NR	15.70				10.99 - 20.41		
Nickel-63	NR	1230				861 - 1599		
Plutonium-238	NR					False Positive Test		
Plutonium-239/240	NR	0.22				Sensitivity Evaluation		

Radiological							Units: (Bq/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Potassium-40	NR	514				360 - 668		
Strontium-90	NR	545				382 - 709		
Technetium-99	12		N	(1)		False Positive Test	0.6	
Thorium-228	NR	42.9				30.0 - 55.8		
Thorium-230	NR	47				33 - 61		
Thorium-232	NR	38.5				27.0 - 50.1		
Uranium-234	NR	34.7				24.3 - 45.1		
Uranium-238	25.93	34.7	W		-25.3	24.3 - 45.1	1.3	A
Zinc-65	NR	434				304 - 564		

Radiological Reference Date: February 1, 2026

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%

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

Notes:

(1) = False Positive

(5) = Total Metal

(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



Department of Energy RESL - 1955 Fremont Ave, MS4149 - Idaho Falls, ID 83415

Laboratory Results For MAPEP-26-MaS54

(EULC01) EnergySolutions, LLC

2235 S. Saltbush Rd.

Grantsville, UT 84029

Inorganic							Units: (mg/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Antimony	NR	5.77				4.04 - 7.50		
Arsenic	NR	7.4				5.2 - 9.6		
Barium	NR	129				90 - 168		
Beryllium	NR	1.62				1.13 - 2.11		
Cadmium	NR	0.584				0.409 - 0.759		
Chromium	NR	11.9				8.3 - 15.5		
Cobalt	NR	5.73				4.01 - 7.45		
Copper	NR	14.4				10.1 - 18.7		
Lead	NR	10.8				7.6 - 14.0		
Mercury	NR	0.0686				0.0480 - 0.0892		
Molybdenum	NR	1.00				0.70 - 1.30		
Nickel	NR	11.9				8.3 - 15.5		
Selenium	NR	1.75				1.23 - 2.28		
Silver	NR	1.94				1.36 - 2.52		
Technetium-99	NR					False Positive Test		
Thallium	NR	1.30				0.91 - 1.69		
Uranium-235	NR	0.0203				0.0142 - 0.0264		
Uranium-238	NR	2.79				1.95 - 3.63		
Uranium-Total	NR	2.81				1.97 - 3.65		
Vanadium	NR	35.6				24.9 - 46.3		
Zinc	NR	49				34 - 64		

Radiological							Units: (Bq/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	-0.01	0.30	A	(17)		Sensitivity Evaluation	27.70	
Cesium-134	552.04	627	A		-12.0	439 - 815	32.05	A
Cesium-137	714.10	728	A		-1.9	510 - 946	87.62	A
Cobalt-57	NR	558	N	(25)		391 - 725		
Cobalt-60	1.65		A			False Positive Test	4.88	
Iron-55	NR	980				686 - 1274		
Manganese-54	380.36	387	A		-1.7	271 - 503	41.28	A
Neptunium-237	NR	15.70				10.99 - 20.41		
Nickel-63	NR	1230				861 - 1599		
Plutonium-238	NR					False Positive Test		
Plutonium-239/240	NR	0.22				Sensitivity Evaluation		

Radiological						Units: (Bq/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Potassium-40	435.49	514	A		-15.3	360 - 668	62.09 A
Strontium-90	NR	545				382 - 709	
Technetium-99	NR					False Positive Test	
Thorium-228	NR	42.9				30.0 - 55.8	
Thorium-230	NR	47				33 - 61	
Thorium-232	34.3	38.5	A		-10.9	27.0 - 50.1	7.49 W
Uranium-234	NR	34.7				24.3 - 45.1	
Uranium-238	NR	34.7				24.3 - 45.1	
Zinc-65	406.63	434	A		-6.3	304 - 564	39.62 A

Radiological Reference Date: February 1, 2026

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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Notes:

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(5) = Total Metal

(6) = Not Evaluated

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(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-26-MaS54

(FANR79) Federal Authority for Nuclear Regulation, Environmental Laboratory

Zayed University, gate number 5

Abu Dhabi, Abu Dhabi 00971

Inorganic							Units: (mg/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Antimony	NR	5.77				4.04 - 7.50		
Arsenic	NR	7.4				5.2 - 9.6		
Barium	NR	129				90 - 168		
Beryllium	NR	1.62				1.13 - 2.11		
Cadmium	NR	0.584				0.409 - 0.759		
Chromium	NR	11.9				8.3 - 15.5		
Cobalt	NR	5.73				4.01 - 7.45		
Copper	NR	14.4				10.1 - 18.7		
Lead	NR	10.8				7.6 - 14.0		
Mercury	NR	0.0686				0.0480 - 0.0892		
Molybdenum	NR	1.00				0.70 - 1.30		
Nickel	NR	11.9				8.3 - 15.5		
Selenium	NR	1.75				1.23 - 2.28		
Silver	NR	1.94				1.36 - 2.52		
Technetium-99	NR					False Positive Test		
Thallium	NR	1.30				0.91 - 1.69		
Uranium-235	NR	0.0203				0.0142 - 0.0264		
Uranium-238	NR	2.79				1.95 - 3.63		
Uranium-Total	NR	2.81				1.97 - 3.65		
Vanadium	NR	35.6				24.9 - 46.3		
Zinc	NR	49				34 - 64		

Radiological							Units: (Bq/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	-1.0	0.30	N	(29)		Sensitivity Evaluation	0.042	
Cesium-134	651.13	627	A		3.8	439 - 815	80.18	A
Cesium-137	772.84	728	A		6.2	510 - 946	2.41	N
Cobalt-57	108.11	558	N		-80.6	391 - 725	1.15	N
Cobalt-60	-1.032		N	(29)		False Positive Test	0.095	
Iron-55	NR	980				686 - 1274		
Manganese-54	407.07	387	A		5.2	271 - 503	1.99	N
Neptunium-237	NR	15.70				10.99 - 20.41		
Nickel-63	NR	1230				861 - 1599		
Plutonium-238	NR					False Positive Test		
Plutonium-239/240	NR	0.22				Sensitivity Evaluation		

Radiological							Units: (Bq/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Potassium-40	504.90	514	A		-1.8	360 - 668	7.62	N
Strontium-90	NR	545				382 - 709		
Technetium-99	NR					False Positive Test		
Thorium-228	NR	42.9				30.0 - 55.8		
Thorium-230	NR	47				33 - 61		
Thorium-232	NR	38.5				27.0 - 50.1		
Uranium-234	NR	34.7				24.3 - 45.1		
Uranium-238	NR	34.7				24.3 - 45.1		
Zinc-65	492.51	434	A		13.5	304 - 564	3.69	N

Radiological Reference Date: February 1, 2026

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

Notes:

(1) = False Positive

(5) = Total Metal

(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



Department of Energy RESL - 1955 Fremont Ave, MS4149 - Idaho Falls, ID 83415

Laboratory Results For MAPEP-26-MaS54

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

Inorganic							Units: (mg/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Antimony	NR	5.77				4.04 - 7.50		
Arsenic	NR	7.4				5.2 - 9.6		
Barium	NR	129				90 - 168		
Beryllium	NR	1.62				1.13 - 2.11		
Cadmium	NR	0.584				0.409 - 0.759		
Chromium	NR	11.9				8.3 - 15.5		
Cobalt	NR	5.73				4.01 - 7.45		
Copper	NR	14.4				10.1 - 18.7		
Lead	NR	10.8				7.6 - 14.0		
Mercury	NR	0.0686				0.0480 - 0.0892		
Molybdenum	NR	1.00				0.70 - 1.30		
Nickel	NR	11.9				8.3 - 15.5		
Selenium	NR	1.75				1.23 - 2.28		
Silver	NR	1.94				1.36 - 2.52		
Technetium-99	NR					False Positive Test		
Thallium	NR	1.30				0.91 - 1.69		
Uranium-235	NR	0.0203				0.0142 - 0.0264		
Uranium-238	NR	2.79				1.95 - 3.63		
Uranium-Total	NR	2.81				1.97 - 3.65		
Vanadium	NR	35.6				24.9 - 46.3		
Zinc	NR	49				34 - 64		

Radiological							Units: (Bq/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	0.02	0.30	A	(17)		Sensitivity Evaluation	3.61	
Cesium-134	661.63	627	A		5.5	439 - 815	9.89	N
Cesium-137	749	728	A		2.9	510 - 946	16.4	A
Cobalt-57	539.67	558	A		-3.3	391 - 725	11.73	A
Cobalt-60	0.785		A			False Positive Test	0.785	
Iron-55	NR	980				686 - 1274		
Manganese-54	408.33	387	A		5.5	271 - 503	8.68	A
Neptunium-237	17.5	15.70	A		11.5	10.99 - 20.41	10	N
Nickel-63	NR	1230				861 - 1599		
Plutonium-238	2.72		A			False Positive Test	4.5	
Plutonium-239/240	1.81	0.22	A	(17)		Sensitivity Evaluation	4.1	

Radiological							Units: (Bq/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Potassium-40	533	514	A		3.7	360 - 668	17.2	A
Strontium-90	749.18	545	N		37.5	382 - 709	120.26	W
Technetium-99	NR					False Positive Test		
Thorium-228	47.11	42.9	A		9.8	30.0 - 55.8	4.1	A
Thorium-230	44.57	47	A		-5.2	33 - 61	4.5	A
Thorium-232	43.46	38.5	A		12.9	27.0 - 50.1	4.4	A
Uranium-234	39.59	34.7	A		14.1	24.3 - 45.1	13.2	N
Uranium-238	24.12	34.7	N		-30.5	24.3 - 45.1	8.1	N
Zinc-65	478	434	A		10.1	304 - 564	9.97	A

Radiological Reference Date: February 1, 2026

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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Notes:

(1) = False Positive

(5) = Total Metal

(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



Department of Energy RESL - 1955 Fremont Ave, MS4149 - Idaho Falls, ID 83415

Laboratory Results For MAPEP-26-MaS54

(FDOH01) Florida Dept. of Health, Mobile Environmental Radiological Lab

2100 All Childrens Way

Orlando, FL 32818-5271

Inorganic							Units: (mg/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Antimony	NR	5.77				4.04 - 7.50		
Arsenic	NR	7.4				5.2 - 9.6		
Barium	NR	129				90 - 168		
Beryllium	NR	1.62				1.13 - 2.11		
Cadmium	NR	0.584				0.409 - 0.759		
Chromium	NR	11.9				8.3 - 15.5		
Cobalt	NR	5.73				4.01 - 7.45		
Copper	NR	14.4				10.1 - 18.7		
Lead	NR	10.8				7.6 - 14.0		
Mercury	NR	0.0686				0.0480 - 0.0892		
Molybdenum	NR	1.00				0.70 - 1.30		
Nickel	NR	11.9				8.3 - 15.5		
Selenium	NR	1.75				1.23 - 2.28		
Silver	NR	1.94				1.36 - 2.52		
Technetium-99	NR					False Positive Test		
Thallium	NR	1.30				0.91 - 1.69		
Uranium-235	NR	0.0203				0.0142 - 0.0264		
Uranium-238	NR	2.79				1.95 - 3.63		
Uranium-Total	NR	2.81				1.97 - 3.65		
Vanadium	NR	35.6				24.9 - 46.3		
Zinc	NR	49				34 - 64		

Radiological							Units: (Bq/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	0.24	0.30	A	(17)		Sensitivity Evaluation	1.76	
Cesium-134	672.77	627	A		7.3	439 - 815	8.39	N
Cesium-137	726.56	728	A		-0.2	510 - 946	12.32	N
Cobalt-57	509.39	558	A		-8.7	391 - 725	7.57	N
Cobalt-60	0.7		A			False Positive Test	0.3	
Iron-55	NR	980				686 - 1274		
Manganese-54	395.88	387	A		2.3	271 - 503	6.6	N
Neptunium-237	18.25	15.70	A		16.2	10.99 - 20.41	7.31	N
Nickel-63	NR	1230				861 - 1599		
Plutonium-238	NR					False Positive Test		
Plutonium-239/240	NR	0.22				Sensitivity Evaluation		

Radiological						Units: (Bq/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Potassium-40	537.4	514	A		4.6	360 - 668	12.49 A
Strontium-90	NR	545				382 - 709	
Technetium-99	NR					False Positive Test	
Thorium-228	NR	42.9				30.0 - 55.8	
Thorium-230	NR	47				33 - 61	
Thorium-232	NR	38.5				27.0 - 50.1	
Uranium-234	NR	34.7				24.3 - 45.1	
Uranium-238	27.33	34.7	W		-21.2	24.3 - 45.1	10.1 N
Zinc-65	463.91	434	A		6.9	304 - 564	9.29 A

Radiological Reference Date: February 1, 2026

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

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Notes:

(1) = False Positive

(5) = Total Metal

(6) = Not Evaluated

(11) = False Positive Test, Result Not Reported

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

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(25) = Result not reported with other gamma results

(28) = Not Reporting Previously Reported Analyte

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



Department of Energy RESL - 1955 Fremont Ave, MS4149 - Idaho Falls, ID 83415

Laboratory Results For MAPEP-26-MaS54

(GENE01) GEL Laboratories, LLC

2040 Savage Road

Charleston, SC 29407

Inorganic							Units: (mg/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Antimony	4.18	5.77	W		-27.6	4.04 - 7.50	0.296	A
Arsenic	9.28	7.4	W		25.4	5.2 - 9.6	0.638	A
Barium	118	129	A		-8.5	90 - 168	7.85	A
Beryllium	1.50	1.62	A		-7.4	1.13 - 2.11	0.105	A
Cadmium	0.584	0.584	A		0.0	0.409 - 0.759	0.0496	A
Chromium	11.5	11.9	A		-3.4	8.3 - 15.5	0.768	A
Cobalt	5.36	5.73	A		-6.5	4.01 - 7.45	0.361	A
Copper	14.7	14.4	A		2.1	10.1 - 18.7	0.981	A
Lead	9.25	10.8	A		-14.4	7.6 - 14.0	0.625	A
Mercury	0.0695	0.0686	A		1.3	0.0480 - 0.0892	0.00522	A
Molybdenum	NR	1.00				0.70 - 1.30		
Nickel	11.1	11.9	A		-6.7	8.3 - 15.5	0.740	A
Selenium	4.16	1.75	N		137.7	1.23 - 2.28	0.300	A
Silver	1.67	1.94	A		-13.9	1.36 - 2.52	0.115	A
Technetium-99	-3.56E-05		A			False Positive Test	2.13E-05	
Thallium	1.12	1.30	A		-13.8	0.91 - 1.69	0.0792	A
Uranium-235	0.0175	0.0203	A		-13.8	0.0142 - 0.0264	0.00116	A
Uranium-238	2.71	2.79	A		-2.9	1.95 - 3.63	0.175	A
Uranium-Total	2.73	2.81	A		-2.8	1.97 - 3.65	0.175	A
Vanadium	34.2	35.6	A		-3.9	24.9 - 46.3	2.28	A
Zinc	47.1	49	A		-3.9	34 - 64	3.14	A

Radiological							Units: (Bq/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	2.56	0.30	A	(17)		Sensitivity Evaluation	0.964	
Cesium-134	547	627	A		-12.8	439 - 815	28.1	A
Cesium-137	741	728	A		1.8	510 - 946	40.0	A
Cobalt-57	611	558	A		9.5	391 - 725	22.9	A
Cobalt-60	0.409		A			False Positive Test	0.275	
Iron-55	661	980	N		-32.6	686 - 1274	151	W
Manganese-54	394	387	A		1.8	271 - 503	19.7	A
Neptunium-237	11.6	15.70	W		-26.1	10.99 - 20.41	1.14	A
Nickel-63	1200	1230	A		-2.4	861 - 1599	144	A
Plutonium-238	-3.90E-08		A			False Positive Test	0.287	
Plutonium-239/240	1.63	0.22	A	(17)		Sensitivity Evaluation	0.599	

Radiological							Units: (Bq/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Potassium-40	514	514	A		0.0	360 - 668	24.5	A
Strontium-90	378	545	N		-30.6	382 - 709	36.1	A
Technetium-99	-7.36		A			False Positive Test	16.4	
Thorium-228	53.7	42.9	W		25.2	30.0 - 55.8	4.44	A
Thorium-230	59.2	47	W		26.0	33 - 61	4.66	A
Thorium-232	58.0	38.5	N		50.6	27.0 - 50.1	4.49	A
Uranium-234	28.0	34.7	A		-19.3	24.3 - 45.1	2.14	A
Uranium-238	28.3	34.7	A		-18.4	24.3 - 45.1	2.13	A
Zinc-65	438	434	A		0.9	304 - 564	18.6	A

Radiological Reference Date: February 1, 2026

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

(5) = Total Metal

(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



Department of Energy RESL - 1955 Fremont Ave, MS4149 - Idaho Falls, ID 83415

Laboratory Results For MAPEP-26-MaS54

(GPCL01) Georgia Power Company Environmental Laboratory

2480 Maner Road

Atlanta, GA 30339

Inorganic							Units: (mg/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Antimony	NR	5.77				4.04 - 7.50		
Arsenic	NR	7.4				5.2 - 9.6		
Barium	NR	129				90 - 168		
Beryllium	NR	1.62				1.13 - 2.11		
Cadmium	NR	0.584				0.409 - 0.759		
Chromium	NR	11.9				8.3 - 15.5		
Cobalt	NR	5.73				4.01 - 7.45		
Copper	NR	14.4				10.1 - 18.7		
Lead	NR	10.8				7.6 - 14.0		
Mercury	NR	0.0686				0.0480 - 0.0892		
Molybdenum	NR	1.00				0.70 - 1.30		
Nickel	NR	11.9				8.3 - 15.5		
Selenium	NR	1.75				1.23 - 2.28		
Silver	NR	1.94				1.36 - 2.52		
Technetium-99	NR					False Positive Test		
Thallium	NR	1.30				0.91 - 1.69		
Uranium-235	NR	0.0203				0.0142 - 0.0264		
Uranium-238	NR	2.79				1.95 - 3.63		
Uranium-Total	NR	2.81				1.97 - 3.65		
Vanadium	NR	35.6				24.9 - 46.3		
Zinc	NR	49				34 - 64		

Radiological							Units: (Bq/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	NR	0.30				Sensitivity Evaluation		
Cesium-134	653.23	627	A		4.2	439 - 815	34.99	A
Cesium-137	727.71	728	A		0.0	510 - 946	44.13	A
Cobalt-57	546.18	558	A		-2.1	391 - 725	35.77	A
Cobalt-60	-0.31		A			False Positive Test	1.13	
Iron-55	NR	980				686 - 1274		
Manganese-54	388.74	387	A		0.5	271 - 503	23.91	A
Neptunium-237	NR	15.70				10.99 - 20.41		
Nickel-63	NR	1230				861 - 1599		
Plutonium-238	NR					False Positive Test		
Plutonium-239/240	NR	0.22				Sensitivity Evaluation		

Radiological						Units: (Bq/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Potassium-40	539.92	514	A		5.0	360 - 668	40.73 A
Strontium-90	NR	545				382 - 709	
Technetium-99	NR					False Positive Test	
Thorium-228	NR	42.9				30.0 - 55.8	
Thorium-230	NR	47				33 - 61	
Thorium-232	NR	38.5				27.0 - 50.1	
Uranium-234	NR	34.7				24.3 - 45.1	
Uranium-238	NR	34.7				24.3 - 45.1	
Zinc-65	455.78	434	A		5.0	304 - 564	28.7 A

Radiological Reference Date: February 1, 2026

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

(5) = Total Metal

(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



Department of Energy RESL - 1955 Fremont Ave, MS4149 - Idaho Falls, ID 83415

Laboratory Results For MAPEP-26-MaS54

(HECR01) SC Department of Environmental Services

8231 Parklane Road

Columbia, SC 29223

Inorganic							Units: (mg/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Antimony	NR	5.77				4.04 - 7.50		
Arsenic	NR	7.4				5.2 - 9.6		
Barium	NR	129				90 - 168		
Beryllium	NR	1.62				1.13 - 2.11		
Cadmium	NR	0.584				0.409 - 0.759		
Chromium	NR	11.9				8.3 - 15.5		
Cobalt	NR	5.73				4.01 - 7.45		
Copper	NR	14.4				10.1 - 18.7		
Lead	NR	10.8				7.6 - 14.0		
Mercury	NR	0.0686				0.0480 - 0.0892		
Molybdenum	NR	1.00				0.70 - 1.30		
Nickel	NR	11.9				8.3 - 15.5		
Selenium	NR	1.75				1.23 - 2.28		
Silver	NR	1.94				1.36 - 2.52		
Technetium-99	NR					False Positive Test		
Thallium	NR	1.30				0.91 - 1.69		
Uranium-235	NR	0.0203				0.0142 - 0.0264		
Uranium-238	NR	2.79				1.95 - 3.63		
Uranium-Total	NR	2.81				1.97 - 3.65		
Vanadium	NR	35.6				24.9 - 46.3		
Zinc	NR	49				34 - 64		

Radiological							Units: (Bq/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	NR	0.30				Sensitivity Evaluation		
Cesium-134	632.2	627	A		0.8	439 - 815	23.27	A
Cesium-137	751.1	728	A		3.2	510 - 946	61.31	A
Cobalt-57	567.3	558	A		1.7	391 - 725	30.58	A
Cobalt-60	-.5968		A			False Positive Test	.3312	
Iron-55	NR	980				686 - 1274		
Manganese-54	404.6	387	A		4.5	271 - 503	40.83	A
Neptunium-237	NR	15.70				10.99 - 20.41		
Nickel-63	NR	1230				861 - 1599		
Plutonium-238	NR					False Positive Test		
Plutonium-239/240	NR	0.22				Sensitivity Evaluation		

Radiological						Units: (Bq/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Potassium-40	538.0	514	A		4.7	360 - 668	51.98 A
Strontium-90	NR	545				382 - 709	
Technetium-99	NR					False Positive Test	
Thorium-228	NR	42.9				30.0 - 55.8	
Thorium-230	NR	47				33 - 61	
Thorium-232	NR	38.5				27.0 - 50.1	
Uranium-234	NR	34.7				24.3 - 45.1	
Uranium-238	NR	34.7				24.3 - 45.1	
Zinc-65	566.8	434	N		30.6	304 - 564	69.63 A

Radiological Reference Date: February 1, 2026

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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Notes:

(1) = False Positive

(5) = Total Metal

(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



Department of Energy RESL - 1955 Fremont Ave, MS4149 - Idaho Falls, ID 83415

Laboratory Results For MAPEP-26-MaS54

(HPAC99) UKHSA, RCE Glasgow

155 Hardgate Road

Glasgow, Scotland G51 4LS

Inorganic							Units: (mg/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Antimony	NR	5.77				4.04 - 7.50		
Arsenic	7.376477	7.4	A		-0.3	5.2 - 9.6	0.553236	A
Barium	143.4343	129	A		11.2	90 - 168	14.34343	A
Beryllium	2.049	1.62	W		26.5	1.13 - 2.11	0.14343	A
Cadmium	NR	0.584				0.409 - 0.759		
Chromium	15.81817	11.9	N		32.9	8.3 - 15.5	2.056362	A
Cobalt	6.55193	5.73	A		14.3	4.01 - 7.45	0.393116	A
Copper	17.62597	14.4	W		22.4	10.1 - 18.7	1.233818	A
Lead	12.31187	10.8	A		14.0	7.6 - 14.0	0.861831	A
Mercury	NR	0.0686				0.0480 - 0.0892		
Molybdenum	NR	1.00				0.70 - 1.30		
Nickel	NR	11.9				8.3 - 15.5		
Selenium	NR	1.75				1.23 - 2.28		
Silver	NR	1.94				1.36 - 2.52		
Technetium-99	0.0000269		N	(1)		False Positive Test	0.000003	
Thallium	1.320847	1.30	A		1.6	0.91 - 1.69	0.099064	A
Uranium-235	NR	0.0203				0.0142 - 0.0264		
Uranium-238	NR	2.79				1.95 - 3.63		
Uranium-Total	NR	2.81				1.97 - 3.65		
Vanadium	37.73103	35.6	A		6.0	24.9 - 46.3	3.395793	A
Zinc	62.29317	49	W		27.1	34 - 64	5.917851	A

Radiological							Units: (Bq/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	0.512	0.30	A			Sensitivity Evaluation	.155	
Cesium-134	598	627	A		-4.6	439 - 815	27	A
Cesium-137	704	728	A		-3.3	510 - 946	33	A
Cobalt-57	500	558	A		-10.4	391 - 725	23	A
Cobalt-60	NR		N	(11)		False Positive Test		
Iron-55	NR	980				686 - 1274		
Manganese-54	375	387	A		-3.1	271 - 503	17	A
Neptunium-237	NR	15.70				10.99 - 20.41		
Nickel-63	NR	1230				861 - 1599		
Plutonium-238	.222		N	(1)		False Positive Test	.0586	
Plutonium-239/240	.276	0.22	A			Sensitivity Evaluation	.0815	

Radiological						Units: (Bq/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Potassium-40	485	514	A		-5.6	360 - 668	24 A
Strontium-90	454.87	545	A		-16.5	382 - 709	25.861 A
Technetium-99	NR					False Positive Test	
Thorium-228	40.323	42.9	A		-6.0	30.0 - 55.8	4.086 A
Thorium-230	44.642	47	A		-5.0	33 - 61	4.364 A
Thorium-232	34.136	38.5	A		-11.3	27.0 - 50.1	3.672 A
Uranium-234	42.679	34.7	W		23.0	24.3 - 45.1	1.984 A
Uranium-238	24.306	34.7	W		-30.0	24.3 - 45.1	1.327 A
Zinc-65	433	434	A		-0.2	304 - 564	20 A

Radiological Reference Date: February 1, 2026

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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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

(5) = Total Metal

(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



Department of Energy RESL - 1955 Fremont Ave, MS4149 - Idaho Falls, ID 83415

Laboratory Results For MAPEP-26-MaS54
 (HPAL01) Los Alamos National Laboratory
 Scott Engeman, z277361 MS G761
 Los Alamos, NM 87545-1663

Inorganic							Units: (mg/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Antimony	NR	5.77				4.04 - 7.50		
Arsenic	NR	7.4				5.2 - 9.6		
Barium	NR	129				90 - 168		
Beryllium	NR	1.62				1.13 - 2.11		
Cadmium	NR	0.584				0.409 - 0.759		
Chromium	NR	11.9				8.3 - 15.5		
Cobalt	NR	5.73				4.01 - 7.45		
Copper	NR	14.4				10.1 - 18.7		
Lead	NR	10.8				7.6 - 14.0		
Mercury	NR	0.0686				0.0480 - 0.0892		
Molybdenum	NR	1.00				0.70 - 1.30		
Nickel	NR	11.9				8.3 - 15.5		
Selenium	NR	1.75				1.23 - 2.28		
Silver	NR	1.94				1.36 - 2.52		
Technetium-99	NR					False Positive Test		
Thallium	NR	1.30				0.91 - 1.69		
Uranium-235	NR	0.0203				0.0142 - 0.0264		
Uranium-238	NR	2.79				1.95 - 3.63		
Uranium-Total	NR	2.81				1.97 - 3.65		
Vanadium	NR	35.6				24.9 - 46.3		
Zinc	NR	49				34 - 64		

Radiological							Units: (Bq/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	NR	0.30				Sensitivity Evaluation		
Cesium-134	5.16E+02	627	A		-17.7	439 - 815	17.36	A
Cesium-137	6.88E+02	728	A		-5.5	510 - 946	23.05	A
Cobalt-57	5.20E+02	558	A		-6.8	391 - 725	29.47	A
Cobalt-60	NR		N	(11)		False Positive Test		
Iron-55	NR	980				686 - 1274		
Manganese-54	3.64E+02	387	A		-5.9	271 - 503	12.41	A
Neptunium-237	NR	15.70				10.99 - 20.41		
Nickel-63	NR	1230				861 - 1599		
Plutonium-238	NR					False Positive Test		
Plutonium-239/240	NR	0.22				Sensitivity Evaluation		

Radiological						Units: (Bq/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Potassium-40	4.77E+02	514	A		-7.2	360 - 668	26.07 A
Strontium-90	NR	545				382 - 709	
Technetium-99	NR					False Positive Test	
Thorium-228	NR	42.9				30.0 - 55.8	
Thorium-230	NR	47				33 - 61	
Thorium-232	NR	38.5				27.0 - 50.1	
Uranium-234	NR	34.7				24.3 - 45.1	
Uranium-238	NR	34.7				24.3 - 45.1	
Zinc-65	4.37E+02	434	A		0.7	304 - 564	15.07 A

Radiological Reference Date: February 1, 2026

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

(5) = Total Metal

(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-26-MaS54

(IAEA20) IAEA Marine Environment Laboratories, Radiometrics Laboratory

4a, Quai Antoine 1er

Monaco, Monaco 98000

Inorganic							Units: (mg/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Antimony	NR	5.77				4.04 - 7.50		
Arsenic	NR	7.4				5.2 - 9.6		
Barium	NR	129				90 - 168		
Beryllium	NR	1.62				1.13 - 2.11		
Cadmium	NR	0.584				0.409 - 0.759		
Chromium	NR	11.9				8.3 - 15.5		
Cobalt	NR	5.73				4.01 - 7.45		
Copper	NR	14.4				10.1 - 18.7		
Lead	NR	10.8				7.6 - 14.0		
Mercury	NR	0.0686				0.0480 - 0.0892		
Molybdenum	NR	1.00				0.70 - 1.30		
Nickel	NR	11.9				8.3 - 15.5		
Selenium	NR	1.75				1.23 - 2.28		
Silver	NR	1.94				1.36 - 2.52		
Technetium-99	NR					False Positive Test		
Thallium	NR	1.30				0.91 - 1.69		
Uranium-235	NR	0.0203				0.0142 - 0.0264		
Uranium-238	NR	2.79				1.95 - 3.63		
Uranium-Total	NR	2.81				1.97 - 3.65		
Vanadium	NR	35.6				24.9 - 46.3		
Zinc	NR	49				34 - 64		

Radiological							Units: (Bq/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	-0.01	0.30	A	(17)		Sensitivity Evaluation	0.5	
Cesium-134	638	627	A		1.8	439 - 815	32	A
Cesium-137	770	728	A		5.8	510 - 946	40	A
Cobalt-57	586	558	A		5.0	391 - 725	34	A
Cobalt-60	-0.01		A			False Positive Test	0.5	
Iron-55	NR	980				686 - 1274		
Manganese-54	395	387	A		2.1	271 - 503	20	A
Neptunium-237	NR	15.70				10.99 - 20.41		
Nickel-63	NR	1230				861 - 1599		
Plutonium-238	NR					False Positive Test		
Plutonium-239/240	NR	0.22				Sensitivity Evaluation		

Radiological						Units: (Bq/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Potassium-40	504	514	A		-1.9	360 - 668	26 A
Strontium-90	NR	545				382 - 709	
Technetium-99	NR					False Positive Test	
Thorium-228	NR	42.9				30.0 - 55.8	
Thorium-230	NR	47				33 - 61	
Thorium-232	NR	38.5				27.0 - 50.1	
Uranium-234	NR	34.7				24.3 - 45.1	
Uranium-238	NR	34.7				24.3 - 45.1	
Zinc-65	460	434	A		6.0	304 - 564	23 A

Radiological Reference Date: February 1, 2026

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

(5) = Total Metal

(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



Department of Energy RESL - 1955 Fremont Ave, MS4149 - Idaho Falls, ID 83415

Laboratory Results For MAPEP-26-MaS54
 (IAEA99) International Atomic Energy Agency
 Agency's Laboratories Seibersdorf
 Seibersdorf, Austria A-2444

Inorganic							Units: (mg/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Antimony	NR	5.77				4.04 - 7.50		
Arsenic	8.2	7.5	A	(5)	9.3	5.3 - 9.8	0.5	A
Barium	588	524	A	(5)	12.2	367 - 681	25	A
Beryllium	NR	1.62				1.13 - 2.11		
Cadmium	NR	0.584				0.409 - 0.759		
Chromium	31.0	30.2	A	(5)	2.6	21.1 - 39.3	2.0	A
Cobalt	7.13	7.1	A	(5)	0.4	4.97 - 9.23	0.31	A
Copper	21.1	21.5	A	(5)	-1.9	15.1 - 28.0	0.9	A
Lead	15.8	14.9	A	(5)	6.0	10.4 - 19.4	0.8	A
Mercury	NR	0.0686				0.0480 - 0.0892		
Molybdenum	1.04	1.00	A		4.0	0.70 - 1.30	0.05	A
Nickel	14.3	14.1	A	(5)	1.4	9.9 - 18.3	0.8	A
Selenium	NR	1.75				1.23 - 2.28		
Silver	1.98	2.13	A	(5)	-7.0	1.49 - 2.77	0.11	A
Technetium-99	NR					False Positive Test		
Thallium	NR	1.30				0.91 - 1.69		
Uranium-235	NR	0.0203				0.0142 - 0.0264		
Uranium-238	NR	2.79				1.95 - 3.63		
Uranium-Total	NR	2.81				1.97 - 3.65		
Vanadium	73.0	64	A	(5)	14.1	44.8 - 83.2	3.7	A
Zinc	70.8	77	A	(5)	-8.1	54 - 100	2.5	A

Radiological							Units: (Bq/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	0.026	0.30	A	(17)		Sensitivity Evaluation	0.538	
Cesium-134	584	627	A		-6.9	439 - 815	14	A
Cesium-137	689	728	A		-5.4	510 - 946	23	A
Cobalt-57	535	558	A		-4.1	391 - 725	11	A
Cobalt-60	0.207		A			False Positive Test	0.514	
Iron-55	NR	980				686 - 1274		
Manganese-54	363	387	A		-6.2	271 - 503	8	A
Neptunium-237	NR	15.70				10.99 - 20.41		
Nickel-63	NR	1230				861 - 1599		
Plutonium-238	NR					False Positive Test		
Plutonium-239/240	NR	0.22				Sensitivity Evaluation		

Radiological						Units: (Bq/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Potassium-40	474	514	A		-7.8	360 - 668	17 A
Strontium-90	NR	545				382 - 709	
Technetium-99	NR					False Positive Test	
Thorium-228	NR	42.9				30.0 - 55.8	
Thorium-230	NR	47				33 - 61	
Thorium-232	NR	38.5				27.0 - 50.1	
Uranium-234	34.5	34.7	A		-0.6	24.3 - 45.1	1.3 A
Uranium-238	34.1	34.7	A		-1.7	24.3 - 45.1	1.3 A
Zinc-65	419	434	A		-3.5	304 - 564	16 A

Radiological Reference Date: February 1, 2026

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

(5) = Total Metal

(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



Department of Energy RESL - 1955 Fremont Ave, MS4149 - Idaho Falls, ID 83415

Laboratory Results For MAPEP-26-MaS54

(IEMA01) Illinois Emergency Management Agency Radiochemistry Laboratory

1301 Knotts St.

Springfield, IL 62703

Inorganic							Units: (mg/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Antimony	NR	5.77				4.04 - 7.50		
Arsenic	NR	7.4				5.2 - 9.6		
Barium	NR	129				90 - 168		
Beryllium	NR	1.62				1.13 - 2.11		
Cadmium	NR	0.584				0.409 - 0.759		
Chromium	NR	11.9				8.3 - 15.5		
Cobalt	NR	5.73				4.01 - 7.45		
Copper	NR	14.4				10.1 - 18.7		
Lead	NR	10.8				7.6 - 14.0		
Mercury	NR	0.0686				0.0480 - 0.0892		
Molybdenum	NR	1.00				0.70 - 1.30		
Nickel	NR	11.9				8.3 - 15.5		
Selenium	NR	1.75				1.23 - 2.28		
Silver	NR	1.94				1.36 - 2.52		
Technetium-99	NR					False Positive Test		
Thallium	NR	1.30				0.91 - 1.69		
Uranium-235	NR	0.0203				0.0142 - 0.0264		
Uranium-238	NR	2.79				1.95 - 3.63		
Uranium-Total	NR	2.81				1.97 - 3.65		
Vanadium	NR	35.6				24.9 - 46.3		
Zinc	NR	49				34 - 64		

Radiological							Units: (Bq/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	0.3777	0.30	A	(17)		Sensitivity Evaluation	.3463	
Cesium-134	551	627	A		-12.1	439 - 815	3.65	N
Cesium-137	744	728	A		2.2	510 - 946	10.3	N
Cobalt-57	543	558	A		-2.7	391 - 725	5.71	N
Cobalt-60	-0.0531		A			False Positive Test	0.229	
Iron-55	NR	980				686 - 1274		
Manganese-54	406	387	A		4.9	271 - 503	5.03	N
Neptunium-237	NR	15.70				10.99 - 20.41		
Nickel-63	NR	1230				861 - 1599		
Plutonium-238	0.4156		A			False Positive Test	0.2842	
Plutonium-239/240	0.1385	0.22	A	(17)		Sensitivity Evaluation	0.1208	

Radiological						Units: (Bq/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Potassium-40	574	514	A		11.7	360 - 668	11.8 A
Strontium-90	514.0	545	A		-5.7	382 - 709	24.5 A
Technetium-99	NR					False Positive Test	
Thorium-228	NR	42.9				30.0 - 55.8	
Thorium-230	NR	47				33 - 61	
Thorium-232	NR	38.5				27.0 - 50.1	
Uranium-234	30.01	34.7	A		-13.5	24.3 - 45.1	1.898 A
Uranium-238	33.02	34.7	A		-4.8	24.3 - 45.1	2.011 A
Zinc-65	496	434	A		14.3	304 - 564	6.79 N

Radiological Reference Date: February 1, 2026

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

Notes:

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(5) = Total Metal

(6) = Not Evaluated

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(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



Department of Energy RESL - 1955 Fremont Ave, MS4149 - Idaho Falls, ID 83415

Laboratory Results For MAPEP-26-MaS54
 (ISUE01) ISU Environmental Monitoring Laboratory
 785 5th 8th Ave Rm B107
 Pocatello, ID 83209

Inorganic							Units: (mg/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Antimony	NR	5.77				4.04 - 7.50		
Arsenic	NR	7.4				5.2 - 9.6		
Barium	NR	129				90 - 168		
Beryllium	NR	1.62				1.13 - 2.11		
Cadmium	NR	0.584				0.409 - 0.759		
Chromium	NR	11.9				8.3 - 15.5		
Cobalt	NR	5.73				4.01 - 7.45		
Copper	NR	14.4				10.1 - 18.7		
Lead	NR	10.8				7.6 - 14.0		
Mercury	NR	0.0686				0.0480 - 0.0892		
Molybdenum	NR	1.00				0.70 - 1.30		
Nickel	NR	11.9				8.3 - 15.5		
Selenium	NR	1.75				1.23 - 2.28		
Silver	NR	1.94				1.36 - 2.52		
Technetium-99	NR					False Positive Test		
Thallium	NR	1.30				0.91 - 1.69		
Uranium-235	NR	0.0203				0.0142 - 0.0264		
Uranium-238	NR	2.79				1.95 - 3.63		
Uranium-Total	NR	2.81				1.97 - 3.65		
Vanadium	NR	35.6				24.9 - 46.3		
Zinc	NR	49				34 - 64		

Radiological							Units: (Bq/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	NR	0.30				Sensitivity Evaluation		
Cesium-134	556.4	627	A		-11.3	439 - 815	16.4	A
Cesium-137	745.9	728	A		2.5	510 - 946	44.9	A
Cobalt-57	438.0	558	W		-21.5	391 - 725	31.3	A
Cobalt-60	0.1		A			False Positive Test	0.2	
Iron-55	NR	980				686 - 1274		
Manganese-54	394.4	387	A		1.9	271 - 503	20.3	A
Neptunium-237	NR	15.70				10.99 - 20.41		
Nickel-63	NR	1230				861 - 1599		
Plutonium-238	NR					False Positive Test		
Plutonium-239/240	NR	0.22				Sensitivity Evaluation		

Radiological							Units: (Bq/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Potassium-40	519.1	514	A		1.0	360 - 668	25.2	A
Strontium-90	NR	545				382 - 709		
Technetium-99	NR					False Positive Test		
Thorium-228	NR	42.9				30.0 - 55.8		
Thorium-230	NR	47				33 - 61		
Thorium-232	NR	38.5				27.0 - 50.1		
Uranium-234	NR	34.7				24.3 - 45.1		
Uranium-238	NR	34.7				24.3 - 45.1		
Zinc-65	422.3	434	A		-2.7	304 - 564	17.4	A

Radiological Reference Date: February 1, 2026

Results Flags:

A = Result acceptable..... $|\text{Bias}| \leq 20\%$

W = Result acceptable with warning..... $20\% < |\text{Bias}| \leq 30\%$

N = Result not acceptable..... $|\text{Bias}| > 30\%$

RW = Report Warning

NR = Not Reported

Uncertainty Flags:

N = NOT ACCEPTABLE..... $\text{RP} < 2\%$

A = ACCEPTABLE..... $2\% \leq \text{RP} \leq 15\%$

W = ACCEPTABLE WITH WARNING..... $15\% \leq \text{RP} \leq 30\%$

N = NOT ACCEPTABLE..... $\text{RP} > 30\%$

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

Notes:

(1) = False Positive

(5) = Total Metal

(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



Department of Energy RESL - 1955 Fremont Ave, MS4149 - Idaho Falls, ID 83415

Laboratory Results For MAPEP-26-MaS54

(JAEC99) Research Laboratories and Information Directorate

Jordan Atomic Energy Commission

Amman, Jordan 70 (11934)

Inorganic							Units: (mg/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Antimony	6.27	7.18	A	(5)	-12.7	5.03 - 9.33	0.326	A
Arsenic	NR	7.4				5.2 - 9.6		
Barium	NR	129				90 - 168		
Beryllium	NR	1.62				1.13 - 2.11		
Cadmium	NR	0.584				0.409 - 0.759		
Chromium	NR	11.9				8.3 - 15.5		
Cobalt	7.1	7.1	A	(5)	0.0	4.97 - 9.23	0.923	A
Copper	19.246	21.5	A	(5)	-10.5	15.1 - 28.0	1.967	A
Lead	14.643	14.9	A	(5)	-1.7	10.4 - 19.4	1.226	A
Mercury	NR	0.0686				0.0480 - 0.0892		
Molybdenum	NR	1.00				0.70 - 1.30		
Nickel	18.006	14.1	W	(5)	27.7	9.9 - 18.3	1.965	A
Selenium	NR	1.75				1.23 - 2.28		
Silver	NR	1.94				1.36 - 2.52		
Technetium-99	NR					False Positive Test		
Thallium	NR	1.30				0.91 - 1.69		
Uranium-235	NR	0.0203				0.0142 - 0.0264		
Uranium-238	NR	2.79				1.95 - 3.63		
Uranium-Total	NR	2.81				1.97 - 3.65		
Vanadium	NR	35.6				24.9 - 46.3		
Zinc	60.72	77	W	(5)	-21.1	54 - 100	1.532	A

Radiological							Units: (Bq/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	NR	0.30				Sensitivity Evaluation		
Cesium-134	709.4	627	A		13.1	439 - 815	27.6	A
Cesium-137	718.2	728	A		-1.3	510 - 946	25.7	A
Cobalt-57	524.1	558	A		-6.1	391 - 725	19.7	A
Cobalt-60	NR		N	(11)		False Positive Test		
Iron-55	NR	980				686 - 1274		
Manganese-54	382.9	387	A		-1.1	271 - 503	14.2	A
Neptunium-237	NR	15.70				10.99 - 20.41		
Nickel-63	NR	1230				861 - 1599		
Plutonium-238	NR					False Positive Test		
Plutonium-239/240	NR	0.22				Sensitivity Evaluation		

Radiological						Units: (Bq/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Potassium-40	503.7	514	A		-2.0	360 - 668	18 A
Strontium-90	NR	545				382 - 709	
Technetium-99	NR					False Positive Test	
Thorium-228	NR	42.9				30.0 - 55.8	
Thorium-230	NR	47				33 - 61	
Thorium-232	NR	38.5				27.0 - 50.1	
Uranium-234	41.3	34.7	A		19.0	24.3 - 45.1	4.8 A
Uranium-238	30.7	34.7	A		-11.5	24.3 - 45.1	4.1 A
Zinc-65	439.7	434	A		1.3	304 - 564	15.1 A

Radiological Reference Date: February 1, 2026

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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Notes:

(1) = False Positive

(5) = Total Metal

(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



Department of Energy RESL - 1955 Fremont Ave, MS4149 - Idaho Falls, ID 83415

Laboratory Results For MAPEP-26-MaS54

(JLNN01) Jefferson Laboratory

111 Hadron Drive

Newport News, VA 23606

Inorganic							Units: (mg/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Antimony	NR	5.77				4.04 - 7.50		
Arsenic	NR	7.4				5.2 - 9.6		
Barium	NR	129				90 - 168		
Beryllium	NR	1.62				1.13 - 2.11		
Cadmium	NR	0.584				0.409 - 0.759		
Chromium	NR	11.9				8.3 - 15.5		
Cobalt	NR	5.73				4.01 - 7.45		
Copper	NR	14.4				10.1 - 18.7		
Lead	NR	10.8				7.6 - 14.0		
Mercury	NR	0.0686				0.0480 - 0.0892		
Molybdenum	NR	1.00				0.70 - 1.30		
Nickel	NR	11.9				8.3 - 15.5		
Selenium	NR	1.75				1.23 - 2.28		
Silver	NR	1.94				1.36 - 2.52		
Technetium-99	NR					False Positive Test		
Thallium	NR	1.30				0.91 - 1.69		
Uranium-235	NR	0.0203				0.0142 - 0.0264		
Uranium-238	NR	2.79				1.95 - 3.63		
Uranium-Total	NR	2.81				1.97 - 3.65		
Vanadium	NR	35.6				24.9 - 46.3		
Zinc	NR	49				34 - 64		

Radiological							Units: (Bq/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	0.0332	0.30	A	(17)		Sensitivity Evaluation	0.62241	
Cesium-134	611	627	A		-2.6	439 - 815	9.94172	N
Cesium-137	785	728	A		7.8	510 - 946	12.2119	N
Cobalt-57	613	558	A		9.9	391 - 725	12.328	A
Cobalt-60	1.42		N	(1)		False Positive Test	0.13095	
Iron-55	NR	980				686 - 1274		
Manganese-54	422	387	A		9.0	271 - 503	5.624	N
Neptunium-237	NR	15.70				10.99 - 20.41		
Nickel-63	NR	1230				861 - 1599		
Plutonium-238	NR					False Positive Test		
Plutonium-239/240	NR	0.22				Sensitivity Evaluation		

Radiological							Units: (Bq/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Potassium-40	537	514	A		4.5	360 - 668	11.1982	A
Strontium-90	NR	545				382 - 709		
Technetium-99	NR					False Positive Test		
Thorium-228	NR	42.9				30.0 - 55.8		
Thorium-230	NR	47				33 - 61		
Thorium-232	NR	38.5				27.0 - 50.1		
Uranium-234	NR	34.7				24.3 - 45.1		
Uranium-238	NR	34.7				24.3 - 45.1		
Zinc-65	491	434	A		13.1	304 - 564	6.46871	N

Radiological Reference Date: February 1, 2026

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

(5) = Total Metal

(6) = Not Evaluated

(11) = False Positive Test, Result Not Reported

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

(18) = Sensitivity Evaluation, Value Not Reported

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



Department of Energy RESL - 1955 Fremont Ave, MS4149 - Idaho Falls, ID 83415

Laboratory Results For MAPEP-26-MaS54
 (JNRC99) Energy and Mineral Regulatory Commission
 Radiological laboratories directorate
 Amman, Amman 11821

Inorganic							Units: (mg/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Antimony	NR	5.77				4.04 - 7.50		
Arsenic	NR	7.4				5.2 - 9.6		
Barium	NR	129				90 - 168		
Beryllium	NR	1.62				1.13 - 2.11		
Cadmium	NR	0.584				0.409 - 0.759		
Chromium	NR	11.9				8.3 - 15.5		
Cobalt	NR	5.73				4.01 - 7.45		
Copper	NR	14.4				10.1 - 18.7		
Lead	NR	10.8				7.6 - 14.0		
Mercury	NR	0.0686				0.0480 - 0.0892		
Molybdenum	NR	1.00				0.70 - 1.30		
Nickel	NR	11.9				8.3 - 15.5		
Selenium	NR	1.75				1.23 - 2.28		
Silver	NR	1.94				1.36 - 2.52		
Technetium-99	NR					False Positive Test		
Thallium	NR	1.30				0.91 - 1.69		
Uranium-235	NR	0.0203				0.0142 - 0.0264		
Uranium-238	NR	2.79				1.95 - 3.63		
Uranium-Total	NR	2.81				1.97 - 3.65		
Vanadium	NR	35.6				24.9 - 46.3		
Zinc	NR	49				34 - 64		

Radiological							Units: (Bq/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	NR	0.30				Sensitivity Evaluation		
Cesium-134	584	627	A		-6.9	439 - 815	4	N
Cesium-137	721	728	A		-1.0	510 - 946	6	N
Cobalt-57	549	558	A		-1.6	391 - 725	5	N
Cobalt-60	NR		N	(11)		False Positive Test		
Iron-55	NR	980				686 - 1274		
Manganese-54	382	387	A		-1.3	271 - 503	4	N
Neptunium-237	NR	15.70				10.99 - 20.41		
Nickel-63	NR	1230				861 - 1599		
Plutonium-238	NR					False Positive Test		
Plutonium-239/240	NR	0.22				Sensitivity Evaluation		

Radiological						Units: (Bq/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Potassium-40	423	514	A		-17.7	360 - 668	13 A
Strontium-90	NR	545				382 - 709	
Technetium-99	NR					False Positive Test	
Thorium-228	NR	42.9				30.0 - 55.8	
Thorium-230	NR	47				33 - 61	
Thorium-232	NR	38.5				27.0 - 50.1	
Uranium-234	NR	34.7				24.3 - 45.1	
Uranium-238	NR	34.7	N	(28)		24.3 - 45.1	
Zinc-65	417	434	A		-3.9	304 - 564	4 N

Radiological Reference Date: February 1, 2026

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

(5) = Total Metal

(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



Department of Energy RESL - 1955 Fremont Ave, MS4149 - Idaho Falls, ID 83415

Laboratory Results For MAPEP-26-MaS54

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

INL/Battelle Energy Alliance, LLC

Idaho Falls, ID 83415-7111

Inorganic							Units: (mg/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Antimony	NR	5.77				4.04 - 7.50		
Arsenic	NR	7.4				5.2 - 9.6		
Barium	NR	129				90 - 168		
Beryllium	NR	1.62				1.13 - 2.11		
Cadmium	NR	0.584				0.409 - 0.759		
Chromium	NR	11.9				8.3 - 15.5		
Cobalt	NR	5.73				4.01 - 7.45		
Copper	NR	14.4				10.1 - 18.7		
Lead	NR	10.8				7.6 - 14.0		
Mercury	NR	0.0686				0.0480 - 0.0892		
Molybdenum	NR	1.00				0.70 - 1.30		
Nickel	NR	11.9				8.3 - 15.5		
Selenium	NR	1.75				1.23 - 2.28		
Silver	NR	1.94				1.36 - 2.52		
Technetium-99	NR					False Positive Test		
Thallium	NR	1.30				0.91 - 1.69		
Uranium-235	NR	0.0203				0.0142 - 0.0264		
Uranium-238	NR	2.79				1.95 - 3.63		
Uranium-Total	NR	2.81				1.97 - 3.65		
Vanadium	NR	35.6				24.9 - 46.3		
Zinc	NR	49				34 - 64		

Radiological							Units: (Bq/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	NR	0.30				Sensitivity Evaluation		
Cesium-134	707.75	627	A		12.9	439 - 815	10.76	N
Cesium-137	850.5	728	A		16.8	510 - 946	13.1	N
Cobalt-57	668	558	A		19.7	391 - 725	11.31	N
Cobalt-60	1.53		A			False Positive Test	0.65	
Iron-55	NR	980				686 - 1274		
Manganese-54	448.25	387	A		15.8	271 - 503	7.19	N
Neptunium-237	NR	15.70				10.99 - 20.41		
Nickel-63	NR	1230				861 - 1599		
Plutonium-238	NR					False Positive Test		
Plutonium-239/240	NR	0.22				Sensitivity Evaluation		

Radiological							Units: (Bq/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Potassium-40	552.75	514	A		7.5	360 - 668	20.84	A
Strontium-90	NR	545				382 - 709		
Technetium-99	NR					False Positive Test		
Thorium-228	NR	42.9				30.0 - 55.8		
Thorium-230	NR	47				33 - 61		
Thorium-232	NR	38.5				27.0 - 50.1		
Uranium-234	NR	34.7				24.3 - 45.1		
Uranium-238	NR	34.7				24.3 - 45.1		
Zinc-65	516.5	434	A		19.0	304 - 564	8.38	N

Radiological Reference Date: February 1, 2026

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

(5) = Total Metal

(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



Department of Energy RESL - 1955 Fremont Ave, MS4149 - Idaho Falls, ID 83415

Laboratory Results For MAPEP-26-MaS54

(MART01) Southern Ohio Cleanup Company LLC

COC, Bldg. X-705, Rm 106

Piketon, OH 45661

Inorganic							Units: (mg/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Antimony	NR	5.77				4.04 - 7.50		
Arsenic	NR	7.4				5.2 - 9.6		
Barium	NR	129				90 - 168		
Beryllium	NR	1.62				1.13 - 2.11		
Cadmium	NR	0.584				0.409 - 0.759		
Chromium	NR	11.9				8.3 - 15.5		
Cobalt	NR	5.73				4.01 - 7.45		
Copper	NR	14.4				10.1 - 18.7		
Lead	NR	10.8				7.6 - 14.0		
Mercury	NR	0.0686				0.0480 - 0.0892		
Molybdenum	NR	1.00				0.70 - 1.30		
Nickel	NR	11.9				8.3 - 15.5		
Selenium	NR	1.75				1.23 - 2.28		
Silver	NR	1.94				1.36 - 2.52		
Technetium-99	NR					False Positive Test		
Thallium	NR	1.30				0.91 - 1.69		
Uranium-235	NR	0.0203				0.0142 - 0.0264		
Uranium-238	NR	2.79				1.95 - 3.63		
Uranium-Total	NR	2.81				1.97 - 3.65		
Vanadium	NR	35.6				24.9 - 46.3		
Zinc	NR	49				34 - 64		

Radiological							Units: (Bq/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	0.2022	0.30	A	(17)		Sensitivity Evaluation	0.2293	
Cesium-134	NR	627				439 - 815		
Cesium-137	NR	728				510 - 946		
Cobalt-57	NR	558				391 - 725		
Cobalt-60	NR					False Positive Test		
Iron-55	NR	980				686 - 1274		
Manganese-54	NR	387				271 - 503		
Neptunium-237	17.14	15.70	A		9.2	10.99 - 20.41	1.148	A
Nickel-63	NR	1230				861 - 1599		
Plutonium-238	.2928		A			False Positive Test	0.1375	
Plutonium-239/240	0.2800	0.22	A	(17)		Sensitivity Evaluation	0.1259	

Radiological							Units: (Bq/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Potassium-40	NR	514				360 - 668		
Strontium-90	NR	545				382 - 709		
Technetium-99	4.30		A			False Positive Test	2.98	
Thorium-228	42.78	42.9	A		-0.3	30.0 - 55.8	3.182	A
Thorium-230	49.92	47	A		6.2	33 - 61	3.544	A
Thorium-232	42.18	38.5	A		9.6	27.0 - 50.1	3.114	A
Uranium-234	27.87	34.7	A		-19.7	24.3 - 45.1	2.044	A
Uranium-238	26.26	34.7	W		-24.3	24.3 - 45.1	1.948	A
Zinc-65	NR	434				304 - 564		

Radiological Reference Date: February 1, 2026

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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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

(5) = Total Metal

(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



Department of Energy RESL - 1955 Fremont Ave, MS4149 - Idaho Falls, ID 83415

Laboratory Results For MAPEP-26-MaS54
 (MART03) Radioactive Material Analysis Laboratory
 ORNL
 Oak Ridge, TN 37830

Inorganic							Units: (mg/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Antimony	5.62	5.77	A		-2.6	4.04 - 7.50	0.56	A
Arsenic	7.11	7.4	A		-3.9	5.2 - 9.6	0.71	A
Barium	133	129	A		3.1	90 - 168	13	A
Beryllium	1.81	1.62	A		11.7	1.13 - 2.11	0.18	A
Cadmium	0.589	0.584	A		0.9	0.409 - 0.759	0.059	A
Chromium	12.4	11.9	A		4.2	8.3 - 15.5	1.2	A
Cobalt	6.06	5.73	A		5.8	4.01 - 7.45	0.61	A
Copper	14.9	14.4	A		3.5	10.1 - 18.7	1.5	A
Lead	11.3	10.8	A		4.6	7.6 - 14.0	1.1	A
Mercury	0.0581	0.0686	A		-15.3	0.0480 - 0.0892	0.0058	A
Molybdenum	0.939	1.00	A		-6.1	0.70 - 1.30	0.094	A
Nickel	12.0	11.9	A		0.8	8.3 - 15.5	1.2	A
Selenium	1.73	1.75	A		-1.1	1.23 - 2.28	0.17	A
Silver	1.74	1.94	A		-10.3	1.36 - 2.52	0.17	A
Technetium-99	NR					False Positive Test		
Thallium	1.28	1.30	A		-1.5	0.91 - 1.69	0.13	A
Uranium-235	0.0167	0.0203	A		-17.7	0.0142 - 0.0264	0.0017	A
Uranium-238	2.30	2.79	A		-17.6	1.95 - 3.63	0.23	A
Uranium-Total	2.32	2.81	A		-17.4	1.97 - 3.65	0.23	A
Vanadium	33.9	35.6	A		-4.8	24.9 - 46.3	3.4	A
Zinc	54.8	49	A		11.8	34 - 64	5.5	A

Radiological							Units: (Bq/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	NR	0.30				Sensitivity Evaluation		
Cesium-134	587.8	627	A		-6.3	439 - 815	4.5	N
Cesium-137	709	728	A		-2.6	510 - 946	10	N
Cobalt-57	550.3	558	A		-1.4	391 - 725	6.1	N
Cobalt-60	1.8		A			False Positive Test	1.8	
Iron-55	NR	980				686 - 1274		
Manganese-54	353.7	387	A		-8.6	271 - 503	5.1	N
Neptunium-237	NR	15.70				10.99 - 20.41		
Nickel-63	NR	1230				861 - 1599		
Plutonium-238	NR					False Positive Test		
Plutonium-239/240	NR	0.22				Sensitivity Evaluation		

Radiological							Units: (Bq/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Potassium-40	475	514	A		-7.6	360 - 668	15	A
Strontium-90	NR	545				382 - 709		
Technetium-99	-3.0		A			False Positive Test	4.5	
Thorium-228	NR	42.9				30.0 - 55.8		
Thorium-230	NR	47				33 - 61		
Thorium-232	NR	38.5				27.0 - 50.1		
Uranium-234	NR	34.7				24.3 - 45.1		
Uranium-238	NR	34.7				24.3 - 45.1		
Zinc-65	403.9	434	A		-6.9	304 - 564	7.2	N

Radiological Reference Date: February 1, 2026

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

(5) = Total Metal

(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



Department of Energy RESL - 1955 Fremont Ave, MS4149 - Idaho Falls, ID 83415

Laboratory Results For MAPEP-26-MaS54
 (MDPH01) MDPH-Division of Radiation Control
 MERL-Room 0066
 Jamaica Plain, MA 02130-3597

Inorganic							Units: (mg/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Antimony	NR	5.77				4.04 - 7.50		
Arsenic	NR	7.4				5.2 - 9.6		
Barium	NR	129				90 - 168		
Beryllium	NR	1.62				1.13 - 2.11		
Cadmium	NR	0.584				0.409 - 0.759		
Chromium	NR	11.9				8.3 - 15.5		
Cobalt	NR	5.73				4.01 - 7.45		
Copper	NR	14.4				10.1 - 18.7		
Lead	NR	10.8				7.6 - 14.0		
Mercury	NR	0.0686				0.0480 - 0.0892		
Molybdenum	NR	1.00				0.70 - 1.30		
Nickel	NR	11.9				8.3 - 15.5		
Selenium	NR	1.75				1.23 - 2.28		
Silver	NR	1.94				1.36 - 2.52		
Technetium-99	NR					False Positive Test		
Thallium	NR	1.30				0.91 - 1.69		
Uranium-235	NR	0.0203				0.0142 - 0.0264		
Uranium-238	NR	2.79				1.95 - 3.63		
Uranium-Total	NR	2.81				1.97 - 3.65		
Vanadium	NR	35.6				24.9 - 46.3		
Zinc	NR	49				34 - 64		

Radiological							Units: (Bq/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	NR	0.30				Sensitivity Evaluation		
Cesium-134	568.57	627	A		-9.3	439 - 815	25.09	A
Cesium-137	695.60	728	A		-4.5	510 - 946	25.10	A
Cobalt-57	568.57	558	A		1.9	391 - 725	73.43	A
Cobalt-60	NR		N	(11)		False Positive Test		
Iron-55	NR	980				686 - 1274		
Manganese-54	368.27	387	A		-4.8	271 - 503	15.87	A
Neptunium-237	NR	15.70				10.99 - 20.41		
Nickel-63	NR	1230				861 - 1599		
Plutonium-238	NR					False Positive Test		
Plutonium-239/240	NR	0.22				Sensitivity Evaluation		

Radiological						Units: (Bq/kg)		
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Potassium-40	641.95	514	W		24.9	360 - 668	39.63	A
Strontium-90	NR	545				382 - 709		
Technetium-99	NR					False Positive Test		
Thorium-228	NR	42.9				30.0 - 55.8		
Thorium-230	NR	47				33 - 61		
Thorium-232	NR	38.5				27.0 - 50.1		
Uranium-234	NR	34.7				24.3 - 45.1		
Uranium-238	NR	34.7				24.3 - 45.1		
Zinc-65	430.43	434	A		-0.8	304 - 564	17.76	A

Radiological Reference Date: February 1, 2026

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

(5) = Total Metal

(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



Department of Energy RESL - 1955 Fremont Ave, MS4149 - Idaho Falls, ID 83415

Laboratory Results For MAPEP-26-MaS54

(NARL01) National Analytical Radiation Environmental Laboratory

540 S. Morris Ave.

Montgomery, AL 36115-2601

Inorganic							Units: (mg/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Antimony	NR	5.77				4.04 - 7.50		
Arsenic	NR	7.4				5.2 - 9.6		
Barium	NR	129				90 - 168		
Beryllium	NR	1.62				1.13 - 2.11		
Cadmium	NR	0.584				0.409 - 0.759		
Chromium	NR	11.9				8.3 - 15.5		
Cobalt	NR	5.73				4.01 - 7.45		
Copper	NR	14.4				10.1 - 18.7		
Lead	NR	10.8				7.6 - 14.0		
Mercury	NR	0.0686				0.0480 - 0.0892		
Molybdenum	NR	1.00				0.70 - 1.30		
Nickel	NR	11.9				8.3 - 15.5		
Selenium	NR	1.75				1.23 - 2.28		
Silver	NR	1.94				1.36 - 2.52		
Technetium-99	NR					False Positive Test		
Thallium	NR	1.30				0.91 - 1.69		
Uranium-235	NR	0.0203				0.0142 - 0.0264		
Uranium-238	NR	2.79				1.95 - 3.63		
Uranium-Total	NR	2.81				1.97 - 3.65		
Vanadium	NR	35.6				24.9 - 46.3		
Zinc	NR	49				34 - 64		

Radiological							Units: (Bq/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	0.122	0.30	A	(17)		Sensitivity Evaluation	0.132	
Cesium-134	615	627	A		-1.9	439 - 815	33.1	A
Cesium-137	751	728	A		3.2	510 - 946	40.4	A
Cobalt-57	545	558	A		-2.3	391 - 725	29.6	A
Cobalt-60	0.211		A			False Positive Test	0.195	
Iron-55	NR	980				686 - 1274		
Manganese-54	401	387	A		3.6	271 - 503	21.5	A
Neptunium-237	NR	15.70				10.99 - 20.41		
Nickel-63	NR	1230				861 - 1599		
Plutonium-238	NR					False Positive Test		
Plutonium-239/240	NR	0.22				Sensitivity Evaluation		

Radiological						Units: (Bq/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Potassium-40	529	514	A		2.9	360 - 668	29.1 A
Strontium-90	NR	545				382 - 709	
Technetium-99	NR					False Positive Test	
Thorium-228	45.5	42.9	A		6.1	30.0 - 55.8	3.15 A
Thorium-230	47.5	47	A		1.1	33 - 61	3.30 A
Thorium-232	40.8	38.5	A		6.0	27.0 - 50.1	2.90 A
Uranium-234	35.3	34.7	A		1.7	24.3 - 45.1	2.26 A
Uranium-238	36.3	34.7	A		4.6	24.3 - 45.1	2.31 A
Zinc-65	467	434	A		7.6	304 - 564	25.1 A

Radiological Reference Date: February 1, 2026

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

(5) = Total Metal

(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



Department of Energy RESL - 1955 Fremont Ave, MS4149 - Idaho Falls, ID 83415

Laboratory Results For MAPEP-26-MaS54

(NESI01) BWXT-Radioisotope & Analytical Chemistry Laboratory

Lynchburg Technology Center

Lynchburg, VA 24504-5447

Inorganic							Units: (mg/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Antimony	5.37	5.77	A		-6.9	4.04 - 7.50	0.123	A
Arsenic	6.17	7.4	A		-16.6	5.2 - 9.6	0.14	A
Barium	130	129	A		0.8	90 - 168	1.42	N
Beryllium	1.66	1.62	A		2.5	1.13 - 2.11	0.014	N
Cadmium	0.521	0.584	A		-10.8	0.409 - 0.759	0.001	N
Chromium	12.4	11.9	A		4.2	8.3 - 15.5	0.136	N
Cobalt	4.82	5.73	A		-15.9	4.01 - 7.45	0.05	N
Copper	14.6	14.4	A		1.4	10.1 - 18.7	0.164	N
Lead	10.5	10.8	A		-2.8	7.6 - 14.0	0.114	N
Mercury	0.073	0.0686	A		6.4	0.0480 - 0.0892	0.005	A
Molybdenum	NR	1.00				0.70 - 1.30		
Nickel	11.1	11.9	A		-6.7	8.3 - 15.5	0.122	N
Selenium	2.40	1.75	N		37.1	1.23 - 2.28	0.16	A
Silver	1.79	1.94	A		-7.7	1.36 - 2.52	0.014	N
Technetium-99	NR					False Positive Test		
Thallium	1.18	1.30	A		-9.2	0.91 - 1.69	0.014	N
Uranium-235	NR	0.0203				0.0142 - 0.0264		
Uranium-238	NR	2.79				1.95 - 3.63		
Uranium-Total	NR	2.81				1.97 - 3.65		
Vanadium	34.1	35.6	A		-4.2	24.9 - 46.3	0.372	N
Zinc	56.9	49	A		16.1	34 - 64	0.614	N

Radiological							Units: (Bq/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	NR	0.30	N	(18)		Sensitivity Evaluation		
Cesium-134	589	627	A		-6.1	439 - 815	25.5	A
Cesium-137	763	728	A		4.8	510 - 946	28.0	A
Cobalt-57	588	558	A		5.4	391 - 725	24.2	A
Cobalt-60	-0.157		A			False Positive Test	0.747	
Iron-55	946	980	A		-3.5	686 - 1274	144	W
Manganese-54	410	387	A		5.9	271 - 503	17.7	A
Neptunium-237	NR	15.70				10.99 - 20.41		
Nickel-63	971	1230	W		-21.1	861 - 1599	111	A
Plutonium-238	0.86		A			False Positive Test	1.49	
Plutonium-239/240	1.68	0.22	A	(17)		Sensitivity Evaluation	1.04	

Radiological						Units: (Bq/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Potassium-40	542	514	A		5.4	360 - 668	30.6 A
Strontium-90	515	545	A		-5.5	382 - 709	47.0 A
Technetium-99	-39.2		A			False Positive Test	35.3
Thorium-228	NR	42.9				30.0 - 55.8	
Thorium-230	NR	47				33 - 61	
Thorium-232	NR	38.5				27.0 - 50.1	
Uranium-234	38.7	34.7	A		11.5	24.3 - 45.1	4.17 A
Uranium-238	24.4	34.7	W		-29.7	24.3 - 45.1	3.29 A
Zinc-65	483	434	A		11.3	304 - 564	21.1 A

Radiological Reference Date: February 1, 2026

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

(5) = Total Metal

(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



Department of Energy RESL - 1955 Fremont Ave, MS4149 - Idaho Falls, ID 83415

Laboratory Results For MAPEP-26-MaS54
 (NJDH01) New Jersey Dept. of Health, ECLS
 3 Schwarzkopf Drive
 Ewing, NJ 08628

Inorganic							Units: (mg/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Antimony	NR	5.77				4.04 - 7.50		
Arsenic	NR	7.4				5.2 - 9.6		
Barium	NR	129				90 - 168		
Beryllium	NR	1.62				1.13 - 2.11		
Cadmium	NR	0.584				0.409 - 0.759		
Chromium	NR	11.9				8.3 - 15.5		
Cobalt	NR	5.73				4.01 - 7.45		
Copper	NR	14.4				10.1 - 18.7		
Lead	NR	10.8				7.6 - 14.0		
Mercury	NR	0.0686				0.0480 - 0.0892		
Molybdenum	NR	1.00				0.70 - 1.30		
Nickel	NR	11.9				8.3 - 15.5		
Selenium	NR	1.75				1.23 - 2.28		
Silver	NR	1.94				1.36 - 2.52		
Technetium-99	NR					False Positive Test		
Thallium	NR	1.30				0.91 - 1.69		
Uranium-235	NR	0.0203				0.0142 - 0.0264		
Uranium-238	NR	2.79				1.95 - 3.63		
Uranium-Total	NR	2.81				1.97 - 3.65		
Vanadium	NR	35.6				24.9 - 46.3		
Zinc	NR	49				34 - 64		

Radiological							Units: (Bq/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	NR	0.30				Sensitivity Evaluation		
Cesium-134	549	627	A		-12.4	439 - 815	33.1	A
Cesium-137	664	728	A		-8.8	510 - 946	39.9	A
Cobalt-57	481	558	A		-13.8	391 - 725	48.2	A
Cobalt-60	0.37		A			False Positive Test	0.148	
Iron-55	NR	980				686 - 1274		
Manganese-54	349	387	A		-9.8	271 - 503	21.0	A
Neptunium-237	NR	15.70				10.99 - 20.41		
Nickel-63	NR	1230				861 - 1599		
Plutonium-238	NR					False Positive Test		
Plutonium-239/240	NR	0.22				Sensitivity Evaluation		

Radiological							Units: (Bq/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Potassium-40	448	514	A		-12.8	360 - 668	19.0	A
Strontium-90	NR	545				382 - 709		
Technetium-99	NR					False Positive Test		
Thorium-228	NR	42.9				30.0 - 55.8		
Thorium-230	NR	47				33 - 61		
Thorium-232	NR	38.5				27.0 - 50.1		
Uranium-234	NR	34.7				24.3 - 45.1		
Uranium-238	NR	34.7				24.3 - 45.1		
Zinc-65	395	434	A		-9.0	304 - 564	15.9	A

Radiological Reference Date: February 1, 2026

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

(5) = Total Metal

(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



Department of Energy RESL - 1955 Fremont Ave, MS4149 - Idaho Falls, ID 83415

Laboratory Results For MAPEP-26-MaS54

(NOCS99) National Oceanography Centre, Southampton

GAU-Radioanalytical

Southampton, Hampshire SO14 3ZH

Inorganic							Units: (mg/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Antimony	5.5	7.18	W	(5)	-23.4	5.03 - 9.33	0.2	A
Arsenic	7.0	7.5	A	(5)	-6.7	5.3 - 9.8	0.5	A
Barium	610	524	A	(5)	16.4	367 - 681	20	A
Beryllium	3	2.59	A	(5)	15.8	1.81 - 3.37	0.5	W
Cadmium	0.60	0.62	A	(5)	-3.2	0.434 - 0.806	0.05	A
Chromium	38	30.2	W	(5)	25.8	21.1 - 39.3	2	A
Cobalt	8.4	7.1	A	(5)	18.3	4.97 - 9.23	0.5	A
Copper	25	21.5	A	(5)	16.3	15.1 - 28.0	2	A
Lead	15	14.9	A	(5)	0.7	10.4 - 19.4	1	A
Mercury	0.080	0.0686	A		16.6	0.0480 - 0.0892	0.003	A
Molybdenum	1.00	1.00	A		0.0	0.70 - 1.30	0.05	A
Nickel	18	14.1	W	(5)	27.7	9.9 - 18.3	1	A
Selenium	3.0	1.79	N	(5)	67.6	1.25 - 2.33	0.5	W
Silver	2	2.13	A	(5)	-6.1	1.49 - 2.77	0.1	A
Technetium-99	NR					False Positive Test		
Thallium	1.40	1.65	A	(5)	-15.2	1.16 - 2.15	0.05	A
Uranium-235	0.018	0.0203	A		-11.3	0.0142 - 0.0264	0.001	A
Uranium-238	2.5	2.79	A		-10.4	1.95 - 3.63	0.1	A
Uranium-Total	2.5	2.81	A		-11.0	1.97 - 3.65	0.1	A
Vanadium	87	64	N	(5)	35.9	44.8 - 83.2	4	A
Zinc	110	77	N	(5)	42.9	54 - 100	5	A

Radiological							Units: (Bq/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	1	0.30	A	(17)		Sensitivity Evaluation	10	
Cesium-134	600	627	A		-4.3	439 - 815	20	A
Cesium-137	690	728	A		-5.2	510 - 946	20	A
Cobalt-57	470	558	A		-15.8	391 - 725	40	A
Cobalt-60	5		A			False Positive Test	50	
Iron-55	800	980	A		-18.4	686 - 1274	40	A
Lead-210	40			(6)			5	A
Manganese-54	360	387	A		-7.0	271 - 503	10	A
Neptunium-237	NR	15.70				10.99 - 20.41		
Nickel-63	1050	1230	A		-14.6	861 - 1599	50	A
Plutonium-238	0.1		A			False Positive Test	1	

Radiological							Units: (Bq/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Plutonium-239/240	0.36	0.22	A			Sensitivity Evaluation	0.08	
Potassium-40	470	514	A		-8.6	360 - 668	20	A
Strontium-90	499	545	A		-8.4	382 - 709	29	A
Technetium-99	50		N	(1)		False Positive Test	5	
Thorium-228	47	42.9	A		9.6	30.0 - 55.8	3	A
Thorium-230	47	47	A		0.0	33 - 61	3	A
Thorium-232	39	38.5	A		1.3	27.0 - 50.1	2	A
Uranium-234	33	34.7	A		-4.9	24.3 - 45.1	3	A
Uranium-238	30	34.7	A		-13.5	24.3 - 45.1	2	A
Zinc-65	410	434	A		-5.5	304 - 564	10	A

Radiological Reference Date: February 1, 2026

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

Notes:

(1) = False Positive

(5) = Total Metal

(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



Department of Energy RESL - 1955 Fremont Ave, MS4149 - Idaho Falls, ID 83415

Laboratory Results For MAPEP-26-MaS54

(ODHL01) Ohio Department of Health Laboratory

8995 E Main Street

Reynoldsburg, OH 43068

Inorganic							Units: (mg/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Antimony	NR	5.77				4.04 - 7.50		
Arsenic	NR	7.4				5.2 - 9.6		
Barium	NR	129				90 - 168		
Beryllium	NR	1.62				1.13 - 2.11		
Cadmium	NR	0.584				0.409 - 0.759		
Chromium	NR	11.9				8.3 - 15.5		
Cobalt	NR	5.73				4.01 - 7.45		
Copper	NR	14.4				10.1 - 18.7		
Lead	NR	10.8				7.6 - 14.0		
Mercury	NR	0.0686				0.0480 - 0.0892		
Molybdenum	NR	1.00				0.70 - 1.30		
Nickel	NR	11.9				8.3 - 15.5		
Selenium	NR	1.75				1.23 - 2.28		
Silver	NR	1.94				1.36 - 2.52		
Technetium-99	NR					False Positive Test		
Thallium	NR	1.30				0.91 - 1.69		
Uranium-235	NR	0.0203				0.0142 - 0.0264		
Uranium-238	NR	2.79				1.95 - 3.63		
Uranium-Total	NR	2.81				1.97 - 3.65		
Vanadium	NR	35.6				24.9 - 46.3		
Zinc	NR	49				34 - 64		

Radiological							Units: (Bq/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	NR	0.30				Sensitivity Evaluation		
Cesium-134	675	627	A		7.7	439 - 815	19.2	A
Cesium-137	784	728	A		7.7	510 - 946	47.2	A
Cobalt-57	642	558	A		15.1	391 - 725	44.0	A
Cobalt-60	1.93		N	(1)		False Positive Test	0.207	
Iron-55	NR	980				686 - 1274		
Manganese-54	409	387	A		5.7	271 - 503	24.7	A
Neptunium-237	NR	15.70				10.99 - 20.41		
Nickel-63	NR	1230				861 - 1599		
Plutonium-238	NR					False Positive Test		
Plutonium-239/240	NR	0.22				Sensitivity Evaluation		

Radiological						Units: (Bq/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Potassium-40	505	514	A		-1.8	360 - 668	22.5 A
Strontium-90	NR	545				382 - 709	
Technetium-99	NR					False Positive Test	
Thorium-228	NR	42.9				30.0 - 55.8	
Thorium-230	NR	47				33 - 61	
Thorium-232	NR	38.5				27.0 - 50.1	
Uranium-234	NR	34.7				24.3 - 45.1	
Uranium-238	NR	34.7				24.3 - 45.1	
Zinc-65	455	434	A		4.8	304 - 564	19.9 A

Radiological Reference Date: February 1, 2026

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

(5) = Total Metal

(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



Department of Energy RESL - 1955 Fremont Ave, MS4149 - Idaho Falls, ID 83415

Laboratory Results For MAPEP-26-MaS54

(OTLI01) Pace Analytical National Center for Testing & Innovation

12065 Lebanon Road

Mt. Juliet, TN 37122

Inorganic							Units: (mg/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Antimony	4.26	5.77	W		-26.2	4.04 - 7.50	0.5	A
Arsenic	6.87	7.4	A		-7.2	5.2 - 9.6	0.2	A
Barium	138	129	A		7.0	90 - 168	0.5	N
Beryllium	1.63	1.62	A		0.6	1.13 - 2.11	.5	N
Cadmium	0.616	0.584	A		5.5	0.409 - 0.759	0.2	N
Chromium	16.2	11.9	N		36.1	8.3 - 15.5	1	A
Cobalt	6.83	5.73	A		19.2	4.01 - 7.45	0.2	A
Copper	18.3	14.4	W		27.1	10.1 - 18.7	1	A
Lead	12.2	10.8	A		13.0	7.6 - 14.0	.4	A
Mercury	NR	0.0686				0.0480 - 0.0892		
Molybdenum	NR	1.00				0.70 - 1.30		
Nickel	13.7	11.9	A		15.1	8.3 - 15.5	0.5	A
Selenium	1.89	1.75	A		8.0	1.23 - 2.28	0.5	W
Silver	1.8	1.94	A		-7.2	1.36 - 2.52	0.1	A
Technetium-99	NR					False Positive Test		
Thallium	1.28	1.30	A		-1.5	0.91 - 1.69	0.4	N
Uranium-235	-.01	0.0203	N		-149.3	0.0142 - 0.0264	.01	N
Uranium-238	2.99	2.79	A		7.2	1.95 - 3.63	0.987	N
Uranium-Total	2.99	2.81	A		6.4	1.97 - 3.65	0.987	N
Vanadium	1.28	35.6	N		-96.4	24.9 - 46.3	0.4	N
Zinc	62.2	49	W		26.9	34 - 64	5	A

Radiological							Units: (Bq/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	0.4	0.30	A	(17)		Sensitivity Evaluation	1.22	
Cesium-134	518	627	A		-17.4	439 - 815	34	A
Cesium-137	647	728	A		-11.1	510 - 946	43	A
Cobalt-57	482	558	A		-13.6	391 - 725	31	A
Cobalt-60	1.39		A			False Positive Test	2.33	
Iron-55	NR	980				686 - 1274		
Manganese-54	337	387	A		-12.9	271 - 503	24	A
Neptunium-237	NR	15.70				10.99 - 20.41		
Nickel-63	829	1230	N		-32.6	861 - 1599	64	A
Plutonium-238	0.13		A			False Positive Test	1.62	
Plutonium-239/240	1.17	0.22	A	(17)		Sensitivity Evaluation	1.71	

Radiological							Units: (Bq/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Potassium-40	462	514	A		-10.1	360 - 668	53	A
Strontium-90	410	545	W		-24.8	382 - 709	15.6	A
Technetium-99	-25.1		A			False Positive Test	16.8	
Thorium-228	NR	42.9				30.0 - 55.8		
Thorium-230	NR	47				33 - 61		
Thorium-232	NR	38.5				27.0 - 50.1		
Uranium-234	39	34.7	A		12.4	24.3 - 45.1	8	W
Uranium-238	23.6	34.7	N		-32.0	24.3 - 45.1	6.3	W
Zinc-65	374	434	A		-13.8	304 - 564	29	A

Radiological Reference Date: February 1, 2026

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

(5) = Total Metal

(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-26-MaS54

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

2710 North 20th Avenue

Pasco, WA 99301

Inorganic							Units: (mg/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Antimony	4.87	5.77	A		-15.6	4.04 - 7.50	0.459	A
Arsenic	6.44	7.4	A		-13.0	5.2 - 9.6	0.298	A
Barium	131	129	A		1.6	90 - 168	4.06	A
Beryllium	1.79	1.62	A		10.5	1.13 - 2.11	0.104	A
Cadmium	0.664	0.584	A		13.7	0.409 - 0.759	0.030	A
Chromium	12.3	11.9	A		3.4	8.3 - 15.5	0.441	A
Cobalt	5.85	5.73	A		2.1	4.01 - 7.45	0.382	A
Copper	14.5	14.4	A		0.7	10.1 - 18.7	0.922	A
Lead	12.3	10.8	A		13.9	7.6 - 14.0	0.482	A
Mercury	0.087	0.0686	W		26.8	0.0480 - 0.0892	0.008	A
Molybdenum	0.768	1.00	W		-23.2	0.70 - 1.30	0.059	A
Nickel	11.6	11.9	A		-2.5	8.3 - 15.5	0.612	A
Selenium	1.62	1.75	A		-7.4	1.23 - 2.28	0.163	A
Silver	1.79	1.94	A		-7.7	1.36 - 2.52	0.066	A
Technetium-99	NR					False Positive Test		
Thallium	1.22	1.30	A		-6.2	0.91 - 1.69	0.231	W
Uranium-235	NR	0.0203				0.0142 - 0.0264		
Uranium-238	NR	2.79				1.95 - 3.63		
Uranium-Total	0.631	2.81	N		-77.5	1.97 - 3.65	0.037	A
Vanadium	32.3	35.6	A		-9.3	24.9 - 46.3	1.29	A
Zinc	58.2	49	A		18.8	34 - 64	10.10	W

Radiological							Units: (Bq/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	NR	0.30				Sensitivity Evaluation		
Cesium-134	NR	627				439 - 815		
Cesium-137	NR	728				510 - 946		
Cobalt-57	NR	558				391 - 725		
Cobalt-60	NR					False Positive Test		
Iron-55	NR	980				686 - 1274		
Manganese-54	NR	387				271 - 503		
Neptunium-237	NR	15.70				10.99 - 20.41		
Nickel-63	NR	1230				861 - 1599		
Plutonium-238	NR					False Positive Test		
Plutonium-239/240	NR	0.22				Sensitivity Evaluation		

Radiological						Units: (Bq/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Potassium-40	NR	514				360 - 668	
Strontium-90	NR	545				382 - 709	
Technetium-99	NR					False Positive Test	
Thorium-228	NR	42.9				30.0 - 55.8	
Thorium-230	NR	47				33 - 61	
Thorium-232	NR	38.5				27.0 - 50.1	
Uranium-234	NR	34.7				24.3 - 45.1	
Uranium-238	NR	34.7				24.3 - 45.1	
Zinc-65	NR	434				304 - 564	

Radiological Reference Date: February 1, 2026

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%

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

Notes:

(1) = False Positive

(5) = Total Metal

(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



Department of Energy RESL - 1955 Fremont Ave, MS4149 - Idaho Falls, ID 83415

Laboratory Results For MAPEP-26-MaS54

(RPSC01) Radiation Protection Service

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

Mississauga, Ontario L4V 1W8

Inorganic							Units: (mg/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Antimony	NR	5.77				4.04 - 7.50		
Arsenic	NR	7.4				5.2 - 9.6		
Barium	NR	129				90 - 168		
Beryllium	NR	1.62				1.13 - 2.11		
Cadmium	NR	0.584				0.409 - 0.759		
Chromium	NR	11.9				8.3 - 15.5		
Cobalt	NR	5.73				4.01 - 7.45		
Copper	NR	14.4				10.1 - 18.7		
Lead	NR	10.8				7.6 - 14.0		
Mercury	NR	0.0686				0.0480 - 0.0892		
Molybdenum	NR	1.00				0.70 - 1.30		
Nickel	NR	11.9				8.3 - 15.5		
Selenium	NR	1.75				1.23 - 2.28		
Silver	NR	1.94				1.36 - 2.52		
Technetium-99	NR					False Positive Test		
Thallium	NR	1.30				0.91 - 1.69		
Uranium-235	NR	0.0203				0.0142 - 0.0264		
Uranium-238	NR	2.79				1.95 - 3.63		
Uranium-Total	NR	2.81				1.97 - 3.65		
Vanadium	NR	35.6				24.9 - 46.3		
Zinc	NR	49				34 - 64		

Radiological							Units: (Bq/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	NR	0.30				Sensitivity Evaluation		
Cesium-134	523	627	A		-16.6	439 - 815	7.14	N
Cesium-137	610	728	A		-16.2	510 - 946	22.6	A
Cobalt-57	453	558	A		-18.8	391 - 725	16.9	A
Cobalt-60	-0.287		A			False Positive Test	0.706	
Iron-55	NR	980				686 - 1274		
Lead-210	50.3			(6)			30.4	N
Manganese-54	321	387	A		-17.1	271 - 503	9.95	A
Neptunium-237	NR	15.70				10.99 - 20.41		
Nickel-63	NR	1230				861 - 1599		
Plutonium-238	NR					False Positive Test		

Radiological							Units: (Bq/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Plutonium-239/240	NR	0.22				Sensitivity Evaluation		
Potassium-40	402	514	W		-21.8	360 - 668	14.8	A
Strontium-90	NR	545				382 - 709		
Technetium-99	NR					False Positive Test		
Thorium-228	173	42.9	N		303.3	30.0 - 55.8	75.7	N
Thorium-230	NR	47				33 - 61		
Thorium-232	NR	38.5				27.0 - 50.1		
Uranium-234	NR	34.7				24.3 - 45.1		
Uranium-238	NR	34.7				24.3 - 45.1		
Zinc-65	375	434	A		-13.6	304 - 564	11.1	A

Radiological Reference Date: February 1, 2026

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

Notes:

(1) = False Positive

(5) = Total Metal

(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



Department of Energy RESL - 1955 Fremont Ave, MS4149 - Idaho Falls, ID 83415

Laboratory Results For MAPEP-26-MaS54

(SANC99) RadioAnalysis, South Africa Nuclear Energy Corp.

Sample Receipt Gate 1

Pretoria, Gauteng 0001

Inorganic							Units: (mg/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Antimony	NR	5.77				4.04 - 7.50		
Arsenic	NR	7.4				5.2 - 9.6		
Barium	NR	129				90 - 168		
Beryllium	NR	1.62				1.13 - 2.11		
Cadmium	NR	0.584				0.409 - 0.759		
Chromium	NR	11.9				8.3 - 15.5		
Cobalt	NR	5.73				4.01 - 7.45		
Copper	NR	14.4				10.1 - 18.7		
Lead	NR	10.8				7.6 - 14.0		
Mercury	NR	0.0686				0.0480 - 0.0892		
Molybdenum	NR	1.00				0.70 - 1.30		
Nickel	NR	11.9				8.3 - 15.5		
Selenium	NR	1.75				1.23 - 2.28		
Silver	NR	1.94				1.36 - 2.52		
Technetium-99	NR					False Positive Test		
Thallium	NR	1.30				0.91 - 1.69		
Uranium-235	NR	0.0203				0.0142 - 0.0264		
Uranium-238	NR	2.79				1.95 - 3.63		
Uranium-Total	2.52	2.81	A		-10.3	1.97 - 3.65	0.36	A
Vanadium	NR	35.6				24.9 - 46.3		
Zinc	NR	49				34 - 64		

Radiological							Units: (Bq/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	11.31	0.30	A	(17)		Sensitivity Evaluation	11.31	
Cesium-134	519.72	627	A		-17.1	439 - 815	18.77	A
Cesium-137	719.79	728	A		-1.1	510 - 946	28.95	A
Cobalt-57	538.91	558	A		-3.4	391 - 725	16.29	A
Cobalt-60	1.50		A			False Positive Test	1.50	
Iron-55	NR	980				686 - 1274		
Manganese-54	360.47	387	A		-6.9	271 - 503	13.32	A
Neptunium-237	NR	15.70				10.99 - 20.41		
Nickel-63	NR	1230				861 - 1599		
Plutonium-238	NR					False Positive Test		
Plutonium-239/240	NR	0.22				Sensitivity Evaluation		

Radiological						Units: (Bq/kg)		
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Potassium-40	372.24	514	W		-27.6	360 - 668	31.15	A
Strontium-90	231.2	545	N		-57.6	382 - 709	33.0	A
Technetium-99	NR					False Positive Test		
Thorium-228	NR	42.9				30.0 - 55.8		
Thorium-230	NR	47				33 - 61		
Thorium-232	37.39	38.5	A		-2.9	27.0 - 50.1	2.60	A
Uranium-234	NR	34.7				24.3 - 45.1		
Uranium-238	NR	34.7				24.3 - 45.1		
Zinc-65	409.31	434	A		-5.7	304 - 564	18.87	A

Radiological Reference Date: February 1, 2026

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%

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

Notes:

(1) = False Positive

(5) = Total Metal

(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



Department of Energy RESL - 1955 Fremont Ave, MS4149 - Idaho Falls, ID 83415

Laboratory Results For MAPEP-26-MaS54
 (SEML01) SRS Environmental Monitoring Laboratory
 Bldg 735-B
 Aiken, SC 29808

Inorganic							Units: (mg/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Antimony	NR	5.77				4.04 - 7.50		
Arsenic	NR	7.4				5.2 - 9.6		
Barium	NR	129				90 - 168		
Beryllium	NR	1.62				1.13 - 2.11		
Cadmium	NR	0.584				0.409 - 0.759		
Chromium	NR	11.9				8.3 - 15.5		
Cobalt	NR	5.73				4.01 - 7.45		
Copper	NR	14.4				10.1 - 18.7		
Lead	NR	10.8				7.6 - 14.0		
Mercury	NR	0.0686				0.0480 - 0.0892		
Molybdenum	NR	1.00				0.70 - 1.30		
Nickel	NR	11.9				8.3 - 15.5		
Selenium	NR	1.75				1.23 - 2.28		
Silver	NR	1.94				1.36 - 2.52		
Technetium-99	NR					False Positive Test		
Thallium	NR	1.30				0.91 - 1.69		
Uranium-235	NR	0.0203				0.0142 - 0.0264		
Uranium-238	NR	2.79				1.95 - 3.63		
Uranium-Total	NR	2.81				1.97 - 3.65		
Vanadium	NR	35.6				24.9 - 46.3		
Zinc	NR	49				34 - 64		

Radiological							Units: (Bq/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	0.24	0.30	A	(17)		Sensitivity Evaluation	0.29	
Cesium-134	602	627	A		-4.0	439 - 815	42	A
Cesium-137	700	728	A		-3.8	510 - 946	65	A
Cobalt-57	507	558	A		-9.1	391 - 725	41	A
Cobalt-60	0.26		A			False Positive Test	0.26	
Iron-55	NR	980				686 - 1274		
Manganese-54	372	387	A		-3.9	271 - 503	35	A
Neptunium-237	18.2	15.70	A		15.9	10.99 - 20.41	2.1	A
Nickel-63	NR	1230				861 - 1599		
Plutonium-238	0.20		A			False Positive Test	0.25	
Plutonium-239/240	0.30	0.22	A	(17)		Sensitivity Evaluation	0.22	

Radiological						Units: (Bq/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Potassium-40	502	514	A		-2.3	360 - 668	50 A
Strontium-90	437	545	A		-19.8	382 - 709	26 A
Technetium-99	NR					False Positive Test	
Thorium-228	46.5	42.9	A		8.4	30.0 - 55.8	2.8 A
Thorium-230	46.0	47	A		-2.1	33 - 61	2.9 A
Thorium-232	40.0	38.5	A		3.9	27.0 - 50.1	2.4 A
Uranium-234	37.8	34.7	A		8.9	24.3 - 45.1	2.5 A
Uranium-238	36.5	34.7	A		5.2	24.3 - 45.1	2.4 A
Zinc-65	449	434	A		3.5	304 - 564	41 A

Radiological Reference Date: February 1, 2026

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%

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Notes:

(1) = False Positive

(5) = Total Metal

(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



Department of Energy RESL - 1955 Fremont Ave, MS4149 - Idaho Falls, ID 83415

Laboratory Results For MAPEP-26-MaS54

(SLAC01) SLAC DOE National Accelerator Laboratory
2575 Sand Hill Road
Menlo Park, CA 94025

Inorganic							Units: (mg/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Antimony	NR	5.77				4.04 - 7.50		
Arsenic	NR	7.4				5.2 - 9.6		
Barium	NR	129				90 - 168		
Beryllium	NR	1.62				1.13 - 2.11		
Cadmium	NR	0.584				0.409 - 0.759		
Chromium	NR	11.9				8.3 - 15.5		
Cobalt	NR	5.73				4.01 - 7.45		
Copper	NR	14.4				10.1 - 18.7		
Lead	NR	10.8				7.6 - 14.0		
Mercury	NR	0.0686				0.0480 - 0.0892		
Molybdenum	NR	1.00				0.70 - 1.30		
Nickel	NR	11.9				8.3 - 15.5		
Selenium	NR	1.75				1.23 - 2.28		
Silver	NR	1.94				1.36 - 2.52		
Technetium-99	NR					False Positive Test		
Thallium	NR	1.30				0.91 - 1.69		
Uranium-235	NR	0.0203				0.0142 - 0.0264		
Uranium-238	NR	2.79				1.95 - 3.63		
Uranium-Total	NR	2.81				1.97 - 3.65		
Vanadium	NR	35.6				24.9 - 46.3		
Zinc	NR	49				34 - 64		

Radiological							Units: (Bq/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	NR	0.30				Sensitivity Evaluation		
Cesium-134	590.04	627	A		-5.9	439 - 815	59.00	A
Cesium-137	746.08	728	A		2.5	510 - 946	74.61	A
Cobalt-57	550.64	558	A		-1.3	391 - 725	55.06	A
Cobalt-60	0.49		A			False Positive Test	0.49	
Iron-55	NR	980				686 - 1274		
Manganese-54	391.82	387	A		1.2	271 - 503	39.18	A
Neptunium-237	NR	15.70				10.99 - 20.41		
Nickel-63	NR	1230				861 - 1599		
Plutonium-238	NR					False Positive Test		
Plutonium-239/240	NR	0.22				Sensitivity Evaluation		

Radiological							Units: (Bq/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Potassium-40	498.21	514	A		-3.1	360 - 668	49.82	A
Strontium-90	NR	545				382 - 709		
Technetium-99	NR					False Positive Test		
Thorium-228	NR	42.9				30.0 - 55.8		
Thorium-230	NR	47				33 - 61		
Thorium-232	NR	38.5				27.0 - 50.1		
Uranium-234	NR	34.7				24.3 - 45.1		
Uranium-238	NR	34.7				24.3 - 45.1		
Zinc-65	443.84	434	A		2.3	304 - 564	44.38	A

Radiological Reference Date: February 1, 2026

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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Notes:

(1) = False Positive

(5) = Total Metal

(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



Department of Energy RESL - 1955 Fremont Ave, MS4149 - Idaho Falls, ID 83415

Laboratory Results For MAPEP-26-MaS54
(SLDA01) USACE SLDA FUSRAP Project
2992 River Road
Vandergrift, PA 15690

Inorganic							Units: (mg/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Antimony	NR	5.77				4.04 - 7.50		
Arsenic	NR	7.4				5.2 - 9.6		
Barium	NR	129				90 - 168		
Beryllium	NR	1.62				1.13 - 2.11		
Cadmium	NR	0.584				0.409 - 0.759		
Chromium	NR	11.9				8.3 - 15.5		
Cobalt	NR	5.73				4.01 - 7.45		
Copper	NR	14.4				10.1 - 18.7		
Lead	NR	10.8				7.6 - 14.0		
Mercury	NR	0.0686				0.0480 - 0.0892		
Molybdenum	NR	1.00				0.70 - 1.30		
Nickel	NR	11.9				8.3 - 15.5		
Selenium	NR	1.75				1.23 - 2.28		
Silver	NR	1.94				1.36 - 2.52		
Technetium-99	0.0000052		A			False Positive Test	0.000002	
Thallium	NR	1.30				0.91 - 1.69		
Uranium-235	NR	0.0203				0.0142 - 0.0264		
Uranium-238	NR	2.79				1.95 - 3.63		
Uranium-Total	NR	2.81				1.97 - 3.65		
Vanadium	NR	35.6				24.9 - 46.3		
Zinc	NR	49				34 - 64		

Radiological							Units: (Bq/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	-0.39	0.30	A	(17)		Sensitivity Evaluation	2.76	
Cesium-134	542.85	627	A		-13.4	439 - 815	7.05	N
Cesium-137	733.51	728	A		0.8	510 - 946	12.61	N
Cobalt-57	583.13	558	A		4.5	391 - 725	7.515	N
Cobalt-60	0.253		A			False Positive Test	0.61	
Iron-55	NR	980				686 - 1274		
Lead-210	45.08			(6)			31.41	N
Manganese-54	391.52	387	A		1.2	271 - 503	6.98	N
Neptunium-237	20.97	15.70	N		33.6	10.99 - 20.41	2.34	A
Nickel-63	NR	1230				861 - 1599		
Plutonium-238	5.34		A			False Positive Test	3.26	

Radiological							Units: (Bq/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Plutonium-239/240	2.96	0.22	A	(17)		Sensitivity Evaluation	2.31	
Potassium-40	541.5	514	A		5.4	360 - 668	21.905	A
Strontium-90	510.19	545	A		-6.4	382 - 709	31.36	A
Technetium-99	0.0000033		A			False Positive Test	0.001744	
Thorium-228	51.34	42.9	A		19.7	30.0 - 55.8	9.75	W
Thorium-230	68.93	47	N		46.7	33 - 61	11.91	W
Thorium-232	42.02	38.5	A		9.1	27.0 - 50.1	8.59	W
Uranium-234	37.30	34.7	A		7.5	24.3 - 45.1	7.17	W
Uranium-238	38.47	34.7	A		10.9	24.3 - 45.1	7.27	W
Zinc-65	474.46	434	A		9.3	304 - 564	15.98	A

Radiological Reference Date: February 1, 2026

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

(5) = Total Metal

(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



Department of Energy RESL - 1955 Fremont Ave, MS4149 - Idaho Falls, ID 83415

Laboratory Results For MAPEP-26-MaS54

(SOUT01) Southwest Research Institute

6220 Culebra Rd.

San Antonio, TX 78238-5166

Inorganic							Units: (mg/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Antimony	NR	5.77				4.04 - 7.50		
Arsenic	NR	7.4				5.2 - 9.6		
Barium	NR	129				90 - 168		
Beryllium	NR	1.62				1.13 - 2.11		
Cadmium	NR	0.584				0.409 - 0.759		
Chromium	NR	11.9				8.3 - 15.5		
Cobalt	NR	5.73				4.01 - 7.45		
Copper	NR	14.4				10.1 - 18.7		
Lead	NR	10.8				7.6 - 14.0		
Mercury	NR	0.0686				0.0480 - 0.0892		
Molybdenum	NR	1.00				0.70 - 1.30		
Nickel	NR	11.9				8.3 - 15.5		
Selenium	NR	1.75				1.23 - 2.28		
Silver	NR	1.94				1.36 - 2.52		
Technetium-99	NR					False Positive Test		
Thallium	NR	1.30				0.91 - 1.69		
Uranium-235	0.0167	0.0203	A		-17.7	0.0142 - 0.0264	0.00380	W
Uranium-238	2.24	2.79	A		-19.7	1.95 - 3.63	0.359	W
Uranium-Total	2.26	2.81	A		-19.6	1.97 - 3.65	0.362	W
Vanadium	NR	35.6				24.9 - 46.3		
Zinc	NR	49				34 - 64		

Radiological							Units: (Bq/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	0.217	0.30	A	(17)		Sensitivity Evaluation	0.218	
Cesium-134	615	627	A		-1.9	439 - 815	11.2	N
Cesium-137	815	728	A		12.0	510 - 946	14.4	N
Cobalt-57	619	558	A		10.9	391 - 725	11.8	N
Cobalt-60	1.23		A			False Positive Test	0.900	
Iron-55	769	980	W		-21.5	686 - 1274	78.5	A
Manganese-54	444	387	A		14.7	271 - 503	8.15	N
Neptunium-237	15.0	15.70	A		-4.5	10.99 - 20.41	1.43	A
Nickel-63	1337	1230	A		8.7	861 - 1599	79.3	A
Plutonium-238	0.107		A			False Positive Test	0.151	
Plutonium-239/240	0.107	0.22	A	(17)		Sensitivity Evaluation	0.151	

Radiological						Units: (Bq/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Potassium-40	589	514	A		14.6	360 - 668	20.1 A
Strontium-90	537	545	A		-1.5	382 - 709	38.1 A
Technetium-99	-3.35		A			False Positive Test	5.04
Thorium-228	50.7	42.9	A		18.2	30.0 - 55.8	4.89 A
Thorium-230	52.2	47	A		11.1	33 - 61	5.04 A
Thorium-232	40.7	38.5	A		5.7	27.0 - 50.1	4.04 A
Uranium-234	30.5	34.7	A		-12.1	24.3 - 45.1	2.97 A
Uranium-238	28.4	34.7	A		-18.2	24.3 - 45.1	2.80 A
Zinc-65	519	434	A		19.6	304 - 564	11.6 A

Radiological Reference Date: February 1, 2026

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

(5) = Total Metal

(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



Department of Energy RESL - 1955 Fremont Ave, MS4149 - Idaho Falls, ID 83415

Laboratory Results For MAPEP-26-MaS54

(SRPD01) Sandia National Laboratories, Radiation Protection Sample Diagnostics

PO Box 5800, MS1103

Albuquerque, NM 87185-1103

Inorganic							Units: (mg/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Antimony	NR	5.77				4.04 - 7.50		
Arsenic	NR	7.4				5.2 - 9.6		
Barium	NR	129				90 - 168		
Beryllium	NR	1.62				1.13 - 2.11		
Cadmium	NR	0.584				0.409 - 0.759		
Chromium	NR	11.9				8.3 - 15.5		
Cobalt	NR	5.73				4.01 - 7.45		
Copper	NR	14.4				10.1 - 18.7		
Lead	NR	10.8				7.6 - 14.0		
Mercury	NR	0.0686				0.0480 - 0.0892		
Molybdenum	NR	1.00				0.70 - 1.30		
Nickel	NR	11.9				8.3 - 15.5		
Selenium	NR	1.75				1.23 - 2.28		
Silver	NR	1.94				1.36 - 2.52		
Technetium-99	NR					False Positive Test		
Thallium	NR	1.30				0.91 - 1.69		
Uranium-235	NR	0.0203				0.0142 - 0.0264		
Uranium-238	NR	2.79				1.95 - 3.63		
Uranium-Total	NR	2.81				1.97 - 3.65		
Vanadium	NR	35.6				24.9 - 46.3		
Zinc	NR	49				34 - 64		

Radiological							Units: (Bq/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	1.14E+00	0.30	A	(17)		Sensitivity Evaluation	4.32	
Cesium-134	6.80E+02	627	A		8.5	439 - 815	4.40	A
Cesium-137	8.01E+02	728	A		10.0	510 - 946	4.82	A
Cobalt-57	5.84E+02	558	A		4.7	391 - 725	5.84	A
Cobalt-60	4.08E-01		A			False Positive Test	5.14E-01	
Iron-55	NR	980				686 - 1274		
Manganese-54	4.20E+02	387	A		8.5	271 - 503	2.54	A
Neptunium-237	NR	15.70				10.99 - 20.41		
Nickel-63	NR	1230				861 - 1599		
Plutonium-238	NR					False Positive Test		
Plutonium-239/240	NR	0.22				Sensitivity Evaluation		

Radiological						Units: (Bq/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Potassium-40	5.33E+02	514	A		3.7	360 - 668	2.43 A
Strontium-90	NR	545				382 - 709	
Technetium-99	NR					False Positive Test	
Thorium-228	NR	42.9				30.0 - 55.8	
Thorium-230	NR	47				33 - 61	
Thorium-232	NR	38.5				27.0 - 50.1	
Uranium-234	NR	34.7				24.3 - 45.1	
Uranium-238	NR	34.7				24.3 - 45.1	
Zinc-65	4.88E+02	434	A		12.4	304 - 564	2.19 A

Radiological Reference Date: February 1, 2026

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

(5) = Total Metal

(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-26-MaS54
(STRL01) South Texas Project Radiological Laboratory
12090 FM 521
Wadsworth, TX 77483

Inorganic							Units: (mg/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Antimony	NR	5.77				4.04 - 7.50		
Arsenic	NR	7.4				5.2 - 9.6		
Barium	NR	129				90 - 168		
Beryllium	NR	1.62				1.13 - 2.11		
Cadmium	NR	0.584				0.409 - 0.759		
Chromium	NR	11.9				8.3 - 15.5		
Cobalt	NR	5.73				4.01 - 7.45		
Copper	NR	14.4				10.1 - 18.7		
Lead	NR	10.8				7.6 - 14.0		
Mercury	NR	0.0686				0.0480 - 0.0892		
Molybdenum	NR	1.00				0.70 - 1.30		
Nickel	NR	11.9				8.3 - 15.5		
Selenium	NR	1.75				1.23 - 2.28		
Silver	NR	1.94				1.36 - 2.52		
Technetium-99	NR					False Positive Test		
Thallium	NR	1.30				0.91 - 1.69		
Uranium-235	NR	0.0203				0.0142 - 0.0264		
Uranium-238	NR	2.79				1.95 - 3.63		
Uranium-Total	NR	2.81				1.97 - 3.65		
Vanadium	NR	35.6				24.9 - 46.3		
Zinc	NR	49				34 - 64		

Radiological							Units: (Bq/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	NR	0.30				Sensitivity Evaluation		
Cesium-134	632.81	627	A		0.9	439 - 815	14.26	A
Cesium-137	775.1	728	A		6.5	510 - 946	9.3	N
Cobalt-57	585.2	558	A		4.9	391 - 725	8.88	N
Cobalt-60	NR		N	(11)		False Positive Test		
Iron-55	NR	980				686 - 1274		
Manganese-54	423.3	387	A		9.4	271 - 503	3.96	N
Neptunium-237	NR	15.70				10.99 - 20.41		
Nickel-63	NR	1230				861 - 1599		
Plutonium-238	NR					False Positive Test		
Plutonium-239/240	NR	0.22				Sensitivity Evaluation		

Radiological							Units: (Bq/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Potassium-40	NR	514	N	(25)		360 - 668		
Strontium-90	NR	545				382 - 709		
Technetium-99	NR					False Positive Test		
Thorium-228	NR	42.9				30.0 - 55.8		
Thorium-230	NR	47				33 - 61		
Thorium-232	NR	38.5				27.0 - 50.1		
Uranium-234	NR	34.7				24.3 - 45.1		
Uranium-238	NR	34.7				24.3 - 45.1		
Zinc-65	499.4	434	A		15.1	304 - 564	11.1	A

Radiological Reference Date: February 1, 2026

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

Notes:

(1) = False Positive

(5) = Total Metal

(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



Department of Energy RESL - 1955 Fremont Ave, MS4149 - Idaho Falls, ID 83415

Laboratory Results For MAPEP-26-MaS54

(TDHL01) Texas Department of State Health Services Laboratory

1100 W 49th Street

Austin, TX 78756

Inorganic							Units: (mg/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Antimony	NR	5.77				4.04 - 7.50		
Arsenic	NR	7.4				5.2 - 9.6		
Barium	NR	129				90 - 168		
Beryllium	NR	1.62				1.13 - 2.11		
Cadmium	NR	0.584				0.409 - 0.759		
Chromium	NR	11.9				8.3 - 15.5		
Cobalt	NR	5.73				4.01 - 7.45		
Copper	NR	14.4				10.1 - 18.7		
Lead	NR	10.8				7.6 - 14.0		
Mercury	NR	0.0686				0.0480 - 0.0892		
Molybdenum	NR	1.00				0.70 - 1.30		
Nickel	NR	11.9				8.3 - 15.5		
Selenium	NR	1.75				1.23 - 2.28		
Silver	NR	1.94				1.36 - 2.52		
Technetium-99	NR					False Positive Test		
Thallium	NR	1.30				0.91 - 1.69		
Uranium-235	NR	0.0203				0.0142 - 0.0264		
Uranium-238	NR	2.79				1.95 - 3.63		
Uranium-Total	NR	2.81				1.97 - 3.65		
Vanadium	NR	35.6				24.9 - 46.3		
Zinc	NR	49				34 - 64		

Radiological							Units: (Bq/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	NR	0.30				Sensitivity Evaluation		
Cesium-134	625	627	A		-0.3	439 - 815	10	N
Cesium-137	724	728	A		-0.5	510 - 946	22	A
Cobalt-57	556	558	A		-0.4	391 - 725	12	A
Cobalt-60	-0.2		A			False Positive Test	1.6	
Iron-55	NR	980				686 - 1274		
Manganese-54	393	387	A		1.6	271 - 503	11	A
Neptunium-237	NR	15.70				10.99 - 20.41		
Nickel-63	NR	1230				861 - 1599		
Plutonium-238	NR					False Positive Test		
Plutonium-239/240	NR	0.22				Sensitivity Evaluation		

Radiological							Units: (Bq/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Potassium-40	503	514	A		-2.1	360 - 668	29	A
Strontium-90	470	545	A		-13.8	382 - 709	15	A
Technetium-99	NR					False Positive Test		
Thorium-228	NR	42.9				30.0 - 55.8		
Thorium-230	NR	47				33 - 61		
Thorium-232	NR	38.5				27.0 - 50.1		
Uranium-234	NR	34.7				24.3 - 45.1		
Uranium-238	NR	34.7				24.3 - 45.1		
Zinc-65	460	434	A		6.0	304 - 564	15	A

Radiological Reference Date: February 1, 2026

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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Notes:

(1) = False Positive

(5) = Total Metal

(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



Department of Energy RESL - 1955 Fremont Ave, MS4149 - Idaho Falls, ID 83415

Laboratory Results For MAPEP-26-MaS54

(TELE01) Teledyne Brown Engineering - Environmental Services

2508 Quality Lane

Knoxville, TN 37931-6819

Inorganic							Units: (mg/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Antimony	NR	5.77				4.04 - 7.50		
Arsenic	NR	7.4				5.2 - 9.6		
Barium	NR	129				90 - 168		
Beryllium	NR	1.62				1.13 - 2.11		
Cadmium	NR	0.584				0.409 - 0.759		
Chromium	NR	11.9				8.3 - 15.5		
Cobalt	NR	5.73				4.01 - 7.45		
Copper	NR	14.4				10.1 - 18.7		
Lead	NR	10.8				7.6 - 14.0		
Mercury	NR	0.0686				0.0480 - 0.0892		
Molybdenum	NR	1.00				0.70 - 1.30		
Nickel	NR	11.9				8.3 - 15.5		
Selenium	NR	1.75				1.23 - 2.28		
Silver	NR	1.94				1.36 - 2.52		
Technetium-99	NR					False Positive Test		
Thallium	NR	1.30				0.91 - 1.69		
Uranium-235	NR	0.0203				0.0142 - 0.0264		
Uranium-238	NR	2.79				1.95 - 3.63		
Uranium-Total	NR	2.81				1.97 - 3.65		
Vanadium	NR	35.6				24.9 - 46.3		
Zinc	NR	49				34 - 64		

Radiological							Units: (Bq/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	NR	0.30				Sensitivity Evaluation		
Cesium-134	NR	627				439 - 815		
Cesium-137	NR	728				510 - 946		
Cobalt-57	NR	558				391 - 725		
Cobalt-60	NR					False Positive Test		
Iron-55	NR	980				686 - 1274		
Manganese-54	NR	387				271 - 503		
Neptunium-237	NR	15.70				10.99 - 20.41		
Nickel-63	1160	1230	A		-5.7	861 - 1599	29.3	A
Plutonium-238	NR					False Positive Test		
Plutonium-239/240	NR	0.22				Sensitivity Evaluation		

Radiological						Units: (Bq/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Potassium-40	NR	514				360 - 668	
Strontium-90	NR	545				382 - 709	
Technetium-99	-5.46		A			False Positive Test	16.2
Thorium-228	53.9	42.9	W		25.6	30.0 - 55.8	13.0 W
Thorium-230	69.3	47	N		47.4	33 - 61	18.1 W
Thorium-232	47.9	38.5	W		24.4	27.0 - 50.1	11.8 W
Uranium-234	NR	34.7				24.3 - 45.1	
Uranium-238	NR	34.7				24.3 - 45.1	
Zinc-65	NR	434				304 - 564	

Radiological Reference Date: February 1, 2026

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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Notes:

(1) = False Positive

(5) = Total Metal

(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



Department of Energy RESL - 1955 Fremont Ave, MS4149 - Idaho Falls, ID 83415

Laboratory Results For MAPEP-26-MaS54

(TELE02) Microbac Laboratories Inc. - Northbrook

700 Landwehr Road

Northbrook, IL 60062-

Inorganic							Units: (mg/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Antimony	NR	5.77				4.04 - 7.50		
Arsenic	NR	7.4				5.2 - 9.6		
Barium	NR	129				90 - 168		
Beryllium	NR	1.62				1.13 - 2.11		
Cadmium	NR	0.584				0.409 - 0.759		
Chromium	NR	11.9				8.3 - 15.5		
Cobalt	NR	5.73				4.01 - 7.45		
Copper	NR	14.4				10.1 - 18.7		
Lead	NR	10.8				7.6 - 14.0		
Mercury	NR	0.0686				0.0480 - 0.0892		
Molybdenum	NR	1.00				0.70 - 1.30		
Nickel	NR	11.9				8.3 - 15.5		
Selenium	NR	1.75				1.23 - 2.28		
Silver	NR	1.94				1.36 - 2.52		
Technetium-99	NR					False Positive Test		
Thallium	NR	1.30				0.91 - 1.69		
Uranium-235	NR	0.0203				0.0142 - 0.0264		
Uranium-238	NR	2.79				1.95 - 3.63		
Uranium-Total	NR	2.81				1.97 - 3.65		
Vanadium	NR	35.6				24.9 - 46.3		
Zinc	NR	49				34 - 64		

Radiological							Units: (Bq/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	NR	0.30				Sensitivity Evaluation		
Cesium-134	442	627	W		-29.5	439 - 815	6	N
Cesium-137	704	728	A		-3.3	510 - 946	8	N
Cobalt-57	315	558	N		-43.5	391 - 725	6	N
Cobalt-60	-1.0		A			False Positive Test	1.0	
Iron-55	NR	980				686 - 1274		
Manganese-54	384	387	A		-0.8	271 - 503	7	N
Neptunium-237	NR	15.70				10.99 - 20.41		
Nickel-63	NR	1230				861 - 1599		
Plutonium-238	NR					False Positive Test		
Plutonium-239/240	NR	0.22				Sensitivity Evaluation		

Radiological						Units: (Bq/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Potassium-40	579	514	A		12.6	360 - 668	37 A
Strontium-90	401	545	W		-26.4	382 - 709	12 A
Technetium-99	NR					False Positive Test	
Thorium-228	NR	42.9				30.0 - 55.8	
Thorium-230	NR	47				33 - 61	
Thorium-232	NR	38.5				27.0 - 50.1	
Uranium-234	NR	34.7				24.3 - 45.1	
Uranium-238	NR	34.7				24.3 - 45.1	
Zinc-65	448	434	A		3.2	304 - 564	11 A

Radiological Reference Date: February 1, 2026

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

(5) = Total Metal

(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



Department of Energy RESL - 1955 Fremont Ave, MS4149 - Idaho Falls, ID 83415

Laboratory Results For MAPEP-26-MaS54
(TMAO01) EBERLINE Analytical Corporation
601 A SCARBORO RD
OAK RIDGE, TN 37830-

Inorganic							Units: (mg/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Antimony	NR	5.77				4.04 - 7.50		
Arsenic	NR	7.4				5.2 - 9.6		
Barium	NR	129				90 - 168		
Beryllium	NR	1.62				1.13 - 2.11		
Cadmium	NR	0.584				0.409 - 0.759		
Chromium	NR	11.9				8.3 - 15.5		
Cobalt	NR	5.73				4.01 - 7.45		
Copper	NR	14.4				10.1 - 18.7		
Lead	NR	10.8				7.6 - 14.0		
Mercury	NR	0.0686				0.0480 - 0.0892		
Molybdenum	NR	1.00				0.70 - 1.30		
Nickel	NR	11.9				8.3 - 15.5		
Selenium	NR	1.75				1.23 - 2.28		
Silver	NR	1.94				1.36 - 2.52		
Technetium-99	NR					False Positive Test		
Thallium	NR	1.30				0.91 - 1.69		
Uranium-235	NR	0.0203				0.0142 - 0.0264		
Uranium-238	NR	2.79				1.95 - 3.63		
Uranium-Total	NR	2.81				1.97 - 3.65		
Vanadium	NR	35.6				24.9 - 46.3		
Zinc	NR	49				34 - 64		

Radiological							Units: (Bq/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	0.459	0.30	A	(17)		Sensitivity Evaluation	2.240	
Cesium-134	592.632	627	A		-5.5	439 - 815	42.742	A
Cesium-137	746.414	728	A		2.5	510 - 946	65.282	A
Cobalt-57	165.953	558	N		-70.3	391 - 725	15.893	A
Cobalt-60	-0.421		A			False Positive Test	3.855	
Iron-55	-4.072	980	N		-100.4	686 - 1274	34.663	N
Manganese-54	403.902	387	A		4.4	271 - 503	38.266	A
Neptunium-237	13.799	15.70	A		-12.1	10.99 - 20.41	5.837	N
Nickel-63	1456.800	1230	A		18.4	861 - 1599	164.828	A
Plutonium-238	9.626		A			False Positive Test	5.433	
Plutonium-239/240	1.093	0.22	A	(17)		Sensitivity Evaluation	2.224	

Radiological							Units: (Bq/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Potassium-40	550.785	514	A		7.2	360 - 668	129.620	W
Strontium-90	458.363	545	A		-15.9	382 - 709	26.351	A
Technetium-99	34.339		A			False Positive Test	36.233	
Thorium-228	33.739	42.9	W		-21.4	30.0 - 55.8	13.080	N
Thorium-230	39.311	47	A		-16.4	33 - 61	14.115	N
Thorium-232	39.283	38.5	A		2.0	27.0 - 50.1	13.323	N
Uranium-234	29.498	34.7	A		-15.0	24.3 - 45.1	8.741	W
Uranium-238	23.341	34.7	N		-32.7	24.3 - 45.1	7.442	N
Zinc-65	453.531	434	A		4.5	304 - 564	45.605	A

Radiological Reference Date: February 1, 2026

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

(5) = Total Metal

(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-26-MaS54
(TNUT01) St. Louis USACE FUSRAP Laboratory
112 James S McDonnell Blvd
HAZELWOOD, MO 63042

Inorganic							Units: (mg/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Antimony	NR	5.77				4.04 - 7.50		
Arsenic	NR	7.4				5.2 - 9.6		
Barium	NR	129				90 - 168		
Beryllium	NR	1.62				1.13 - 2.11		
Cadmium	NR	0.584				0.409 - 0.759		
Chromium	NR	11.9				8.3 - 15.5		
Cobalt	NR	5.73				4.01 - 7.45		
Copper	NR	14.4				10.1 - 18.7		
Lead	NR	10.8				7.6 - 14.0		
Mercury	NR	0.0686				0.0480 - 0.0892		
Molybdenum	NR	1.00				0.70 - 1.30		
Nickel	NR	11.9				8.3 - 15.5		
Selenium	NR	1.75				1.23 - 2.28		
Silver	NR	1.94				1.36 - 2.52		
Technetium-99	NR					False Positive Test		
Thallium	NR	1.30				0.91 - 1.69		
Uranium-235	NR	0.0203				0.0142 - 0.0264		
Uranium-238	NR	2.79				1.95 - 3.63		
Uranium-Total	NR	2.81				1.97 - 3.65		
Vanadium	NR	35.6				24.9 - 46.3		
Zinc	NR	49				34 - 64		

Radiological							Units: (Bq/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	-.0140	0.30	A	(17)		Sensitivity Evaluation	.562	
Cesium-134	507	627	A		-19.1	439 - 815	5.77	N
Cesium-137	715	728	A		-1.8	510 - 946	18.2	A
Cobalt-57	531	558	A		-4.8	391 - 725	8.74	N
Cobalt-60	0.850		N	(1)		False Positive Test	0.117	
Iron-55	NR	980				686 - 1274		
Manganese-54	391	387	A		1.0	271 - 503	8.79	A
Neptunium-237	NR	15.70				10.99 - 20.41		
Nickel-63	NR	1230				861 - 1599		
Plutonium-238	NR					False Positive Test		
Plutonium-239/240	NR	0.22				Sensitivity Evaluation		

Radiological							Units: (Bq/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Potassium-40	537	514	A		4.5	360 - 668	14.4	A
Strontium-90	NR	545				382 - 709		
Technetium-99	NR					False Positive Test		
Thorium-228	54.5	42.9	W		27.0	30.0 - 55.8	6.08	A
Thorium-230	55.0	47	A		17.0	33 - 61	6.12	A
Thorium-232	42.6	38.5	A		10.6	27.0 - 50.1	5.15	A
Uranium-234	30.9	34.7	A		-11.0	24.3 - 45.1	4.52	A
Uranium-238	37.7	34.7	A		8.6	24.3 - 45.1	5.00	A
Zinc-65	476	434	A		9.7	304 - 564	12.2	A

Radiological Reference Date: February 1, 2026

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

Notes:

(1) = False Positive

(5) = Total Metal

(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



Department of Energy RESL - 1955 Fremont Ave, MS4149 - Idaho Falls, ID 83415

Laboratory Results For MAPEP-26-MaS54

(WEST04) PACE ANALYTICAL SERVICES, GREENSBURG

1638 Roseytown Road

Greensburg, PA 15601

Inorganic							Units: (mg/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Antimony	NR	5.77				4.04 - 7.50		
Arsenic	NR	7.4				5.2 - 9.6		
Barium	NR	129				90 - 168		
Beryllium	NR	1.62				1.13 - 2.11		
Cadmium	NR	0.584				0.409 - 0.759		
Chromium	NR	11.9				8.3 - 15.5		
Cobalt	NR	5.73				4.01 - 7.45		
Copper	NR	14.4				10.1 - 18.7		
Lead	NR	10.8				7.6 - 14.0		
Mercury	NR	0.0686				0.0480 - 0.0892		
Molybdenum	NR	1.00				0.70 - 1.30		
Nickel	NR	11.9				8.3 - 15.5		
Selenium	NR	1.75				1.23 - 2.28		
Silver	NR	1.94				1.36 - 2.52		
Technetium-99	NR					False Positive Test		
Thallium	NR	1.30				0.91 - 1.69		
Uranium-235	NR	0.0203				0.0142 - 0.0264		
Uranium-238	NR	2.79				1.95 - 3.63		
Uranium-Total	NR	2.81				1.97 - 3.65		
Vanadium	NR	35.6				24.9 - 46.3		
Zinc	NR	49				34 - 64		

Radiological							Units: (Bq/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	NR	0.30				Sensitivity Evaluation		
Cesium-134	586.990	627	A		-6.4	439 - 815	41.601	A
Cesium-137	739.090	728	A		1.5	510 - 946	52.257	A
Cobalt-57	607.100	558	A		8.8	391 - 725	43.252	A
Cobalt-60	0.0001		A			False Positive Test	0.588	
Iron-55	NR	980				686 - 1274		
Manganese-54	422.670	387	A		9.2	271 - 503	29.989	A
Neptunium-237	NR	15.70				10.99 - 20.41		
Nickel-63	NR	1230				861 - 1599		
Plutonium-238	NR					False Positive Test		
Plutonium-239/240	NR	0.22				Sensitivity Evaluation		

Radiological							Units: (Bq/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Potassium-40	538.920	514	A		4.8	360 - 668	41.654	A
Strontium-90	NR	545				382 - 709		
Technetium-99	NR					False Positive Test		
Thorium-228	NR	42.9				30.0 - 55.8		
Thorium-230	NR	47				33 - 61		
Thorium-232	NR	38.5				27.0 - 50.1		
Uranium-234	NR	34.7				24.3 - 45.1		
Uranium-238	NR	34.7				24.3 - 45.1		
Zinc-65	480.510	434	A		10.7	304 - 564	32.990	A

Radiological Reference Date: February 1, 2026

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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Notes:

(1) = False Positive

(5) = Total Metal

(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



Department of Energy RESL - 1955 Fremont Ave, MS4149 - Idaho Falls, ID 83415

Laboratory Results For MAPEP-26-MaS54

(WIPH01) WI, DPH, Radiation Protection Section

201 E Washington Ave

Madison, WI 53703

Inorganic							Units: (mg/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Antimony	NR	5.77				4.04 - 7.50		
Arsenic	NR	7.4				5.2 - 9.6		
Barium	NR	129				90 - 168		
Beryllium	NR	1.62				1.13 - 2.11		
Cadmium	NR	0.584				0.409 - 0.759		
Chromium	NR	11.9				8.3 - 15.5		
Cobalt	NR	5.73				4.01 - 7.45		
Copper	NR	14.4				10.1 - 18.7		
Lead	NR	10.8				7.6 - 14.0		
Mercury	NR	0.0686				0.0480 - 0.0892		
Molybdenum	NR	1.00				0.70 - 1.30		
Nickel	NR	11.9				8.3 - 15.5		
Selenium	NR	1.75				1.23 - 2.28		
Silver	NR	1.94				1.36 - 2.52		
Technetium-99	NR					False Positive Test		
Thallium	NR	1.30				0.91 - 1.69		
Uranium-235	NR	0.0203				0.0142 - 0.0264		
Uranium-238	NR	2.79				1.95 - 3.63		
Uranium-Total	NR	2.81				1.97 - 3.65		
Vanadium	NR	35.6				24.9 - 46.3		
Zinc	NR	49				34 - 64		

Radiological							Units: (Bq/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	8.193	0.30	A	(17)		Sensitivity Evaluation	4.634	
Cesium-134	587.459	627	A		-6.3	439 - 815	11.613	N
Cesium-137	731.472	728	A		0.5	510 - 946	43.978	A
Cobalt-57	563.151	558	A		0.9	391 - 725	40.056	A
Cobalt-60	1.035		N	(1)		False Positive Test	0.138	
Iron-55	NR	980				686 - 1274		
Manganese-54	384.518	387	A		-0.6	271 - 503	19.680	A
Neptunium-237	NR	15.70				10.99 - 20.41		
Nickel-63	NR	1230				861 - 1599		
Plutonium-238	NR					False Positive Test		
Plutonium-239/240	NR	0.22				Sensitivity Evaluation		

Radiological						Units: (Bq/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Potassium-40	473.062	514	A		-8.0	360 - 668	20.468 A
Strontium-90	NR	545				382 - 709	
Technetium-99	NR					False Positive Test	
Thorium-228	NR	42.9				30.0 - 55.8	
Thorium-230	NR	47				33 - 61	
Thorium-232	NR	38.5				27.0 - 50.1	
Uranium-234	NR	34.7				24.3 - 45.1	
Uranium-238	NR	34.7				24.3 - 45.1	
Zinc-65	434.590	434	A		0.1	304 - 564	17.630 A

Radiological Reference Date: February 1, 2026

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

(5) = Total Metal

(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



Department of Energy RESL - 1955 Fremont Ave, MS4149 - Idaho Falls, ID 83415

Laboratory Results For MAPEP-26-MaS54
 (WSHL01) Wisconsin State Laboratory of Hygiene
 2601 Agriculture Drive
 Madison, WI 53718

Inorganic							Units: (mg/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Antimony	NR	5.77				4.04 - 7.50		
Arsenic	NR	7.4				5.2 - 9.6		
Barium	NR	129				90 - 168		
Beryllium	NR	1.62				1.13 - 2.11		
Cadmium	NR	0.584				0.409 - 0.759		
Chromium	NR	11.9				8.3 - 15.5		
Cobalt	NR	5.73				4.01 - 7.45		
Copper	NR	14.4				10.1 - 18.7		
Lead	NR	10.8				7.6 - 14.0		
Mercury	NR	0.0686				0.0480 - 0.0892		
Molybdenum	NR	1.00				0.70 - 1.30		
Nickel	NR	11.9				8.3 - 15.5		
Selenium	NR	1.75				1.23 - 2.28		
Silver	NR	1.94				1.36 - 2.52		
Technetium-99	NR					False Positive Test		
Thallium	NR	1.30				0.91 - 1.69		
Uranium-235	NR	0.0203				0.0142 - 0.0264		
Uranium-238	NR	2.79				1.95 - 3.63		
Uranium-Total	NR	2.81				1.97 - 3.65		
Vanadium	NR	35.6				24.9 - 46.3		
Zinc	NR	49				34 - 64		

Radiological							Units: (Bq/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	0.7737	0.30	A			Sensitivity Evaluation	0.2465	
Cesium-134	609	627	A		-2.9	439 - 815	11.8	N
Cesium-137	763	728	A		4.8	510 - 946	22.8	A
Cobalt-57	571	558	A		2.3	391 - 725	13.1	A
Cobalt-60	0.231		A			False Positive Test	0.253	
Iron-55	NR	980				686 - 1274		
Manganese-54	410	387	A		5.9	271 - 503	17.7	A
Neptunium-237	NR	15.70				10.99 - 20.41		
Nickel-63	NR	1230				861 - 1599		
Plutonium-238	0.2743		A			False Positive Test	0.4343	
Plutonium-239/240	0.6406	0.22	A	(17)		Sensitivity Evaluation	0.2734	

Radiological						Units: (Bq/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Potassium-40	520	514	A		1.2	360 - 668	45.97 A
Strontium-90	455	545	A		-16.5	382 - 709	5.34 N
Technetium-99	NR					False Positive Test	
Thorium-228	NR	42.9				30.0 - 55.8	
Thorium-230	NR	47				33 - 61	
Thorium-232	NR	38.5				27.0 - 50.1	
Uranium-234	19.83	34.7	N		-42.9	24.3 - 45.1	1.57 A
Uranium-238	14.77	34.7	N		-57.4	24.3 - 45.1	1.280 A
Zinc-65	472	434	A		8.8	304 - 564	38.3 A

Radiological Reference Date: February 1, 2026

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

Notes:

(1) = False Positive

(5) = Total Metal

(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



Department of Energy RESL - 1955 Fremont Ave, MS4149 - Idaho Falls, ID 83415

Laboratory Results For MAPEP-26-MaS54

(YPGA01) US Army Yuma Proving Ground / Material Analysis Lab

301 C. Street

Yuma, AZ 85365

Inorganic							Units: (mg/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Antimony	NR	5.77				4.04 - 7.50		
Arsenic	NR	7.4				5.2 - 9.6		
Barium	NR	129				90 - 168		
Beryllium	NR	1.62				1.13 - 2.11		
Cadmium	NR	0.584				0.409 - 0.759		
Chromium	NR	11.9				8.3 - 15.5		
Cobalt	NR	5.73				4.01 - 7.45		
Copper	NR	14.4				10.1 - 18.7		
Lead	NR	10.8				7.6 - 14.0		
Mercury	NR	0.0686				0.0480 - 0.0892		
Molybdenum	NR	1.00				0.70 - 1.30		
Nickel	NR	11.9				8.3 - 15.5		
Selenium	NR	1.75				1.23 - 2.28		
Silver	NR	1.94				1.36 - 2.52		
Technetium-99	NR					False Positive Test		
Thallium	NR	1.30				0.91 - 1.69		
Uranium-235	0.017	0.0203	A		-16.3	0.0142 - 0.0264	0.005	W
Uranium-238	2.37	2.79	A		-15.1	1.95 - 3.63	0.6	W
Uranium-Total	2.38	2.81	A		-15.3	1.97 - 3.65	0.6	W
Vanadium	NR	35.6				24.9 - 46.3		
Zinc	NR	49				34 - 64		

Radiological							Units: (Bq/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	NR	0.30				Sensitivity Evaluation		
Cesium-134	NR	627				439 - 815		
Cesium-137	NR	728				510 - 946		
Cobalt-57	NR	558				391 - 725		
Cobalt-60	NR					False Positive Test		
Iron-55	NR	980				686 - 1274		
Manganese-54	NR	387				271 - 503		
Neptunium-237	NR	15.70				10.99 - 20.41		
Nickel-63	NR	1230				861 - 1599		
Plutonium-238	NR					False Positive Test		
Plutonium-239/240	NR	0.22				Sensitivity Evaluation		

Radiological						Units: (Bq/kg)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Potassium-40	NR	514				360 - 668	
Strontium-90	NR	545				382 - 709	
Technetium-99	NR					False Positive Test	
Thorium-228	NR	42.9				30.0 - 55.8	
Thorium-230	NR	47				33 - 61	
Thorium-232	NR	38.5				27.0 - 50.1	
Uranium-234	NR	34.7				24.3 - 45.1	
Uranium-238	NR	34.7				24.3 - 45.1	
Zinc-65	NR	434				304 - 564	

Radiological Reference Date: February 1, 2026

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

(5) = Total Metal

(6) = Not Evaluated

(11) = False Positive Test, Result Not Reported

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

(18) = Sensitivity Evaluation, Value Not Reported

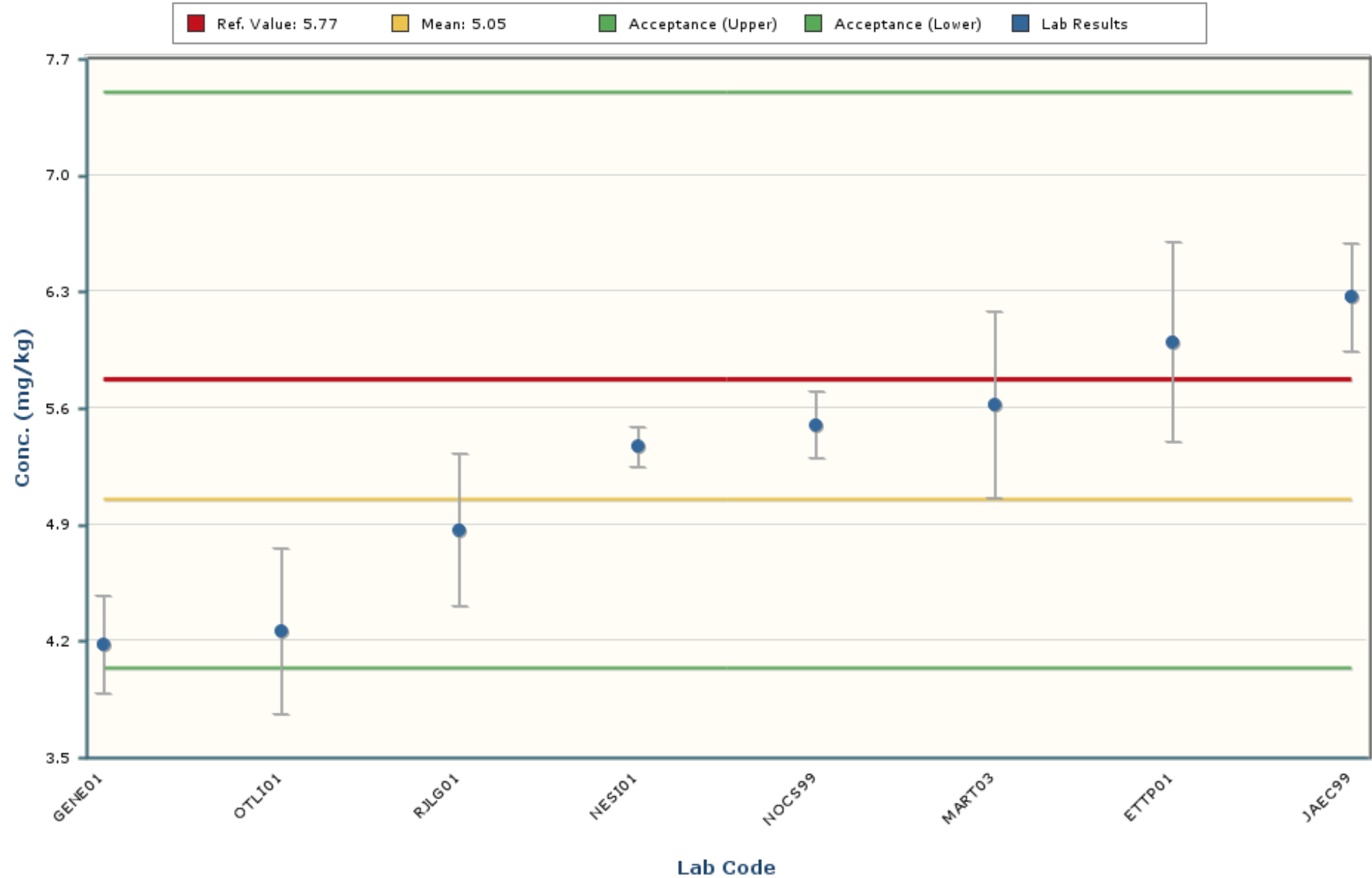
(25) = Result not reported with other gamma results

(28) = Not Reporting Previously Reported Analyte

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

Antimony

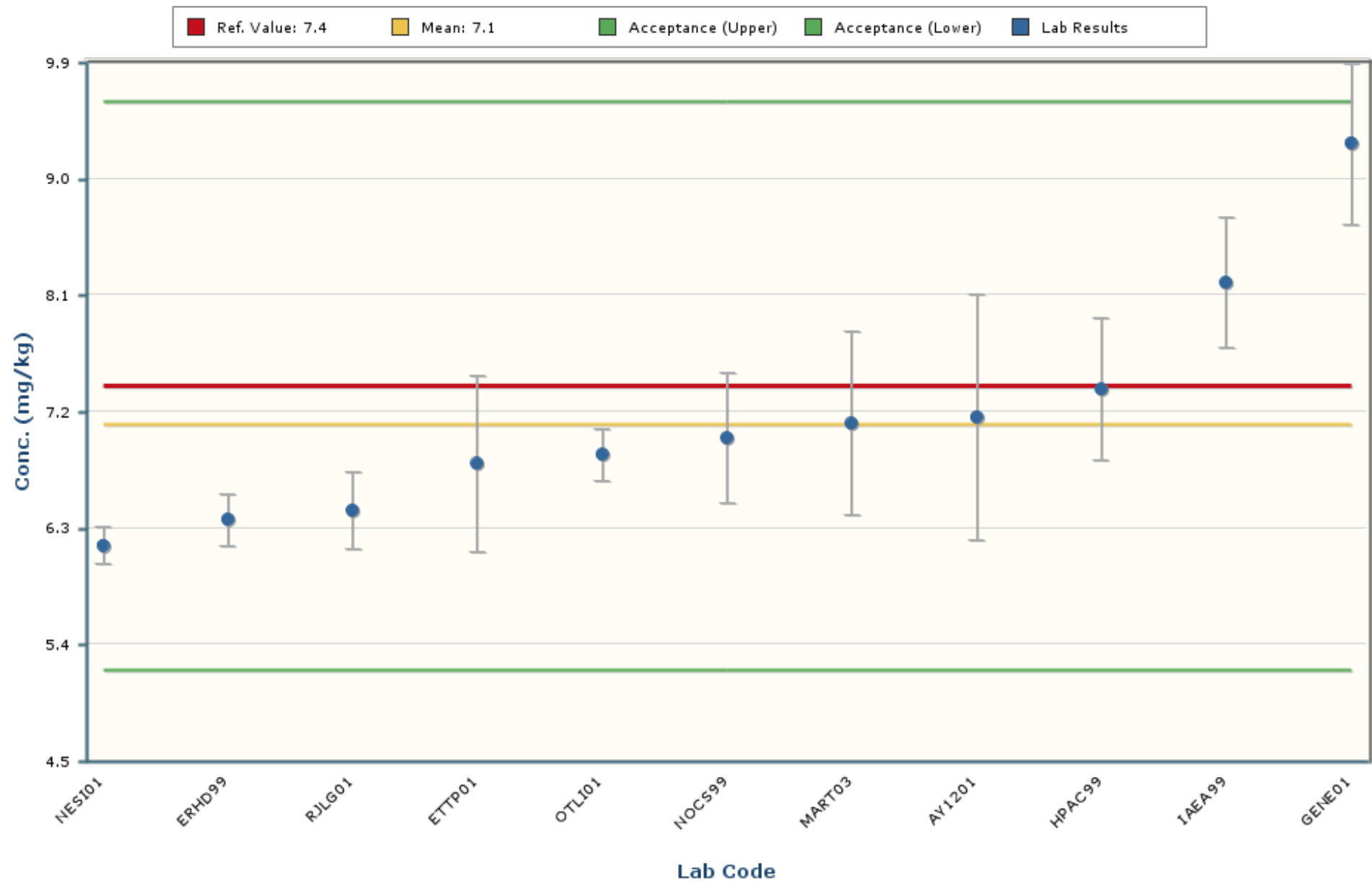
MAPEP-26-MaS54



Notes:
The chart mean excludes values outside of a bias range of $\pm 30\%$.
The chart shows only data points with values between 1.35 and 8.75 (± 5 Standard Deviations).
The error bars encompassing each result are plotted at $\pm$ one standard deviation.

Arsenic

MAPEP-26-MaS54



Notes:

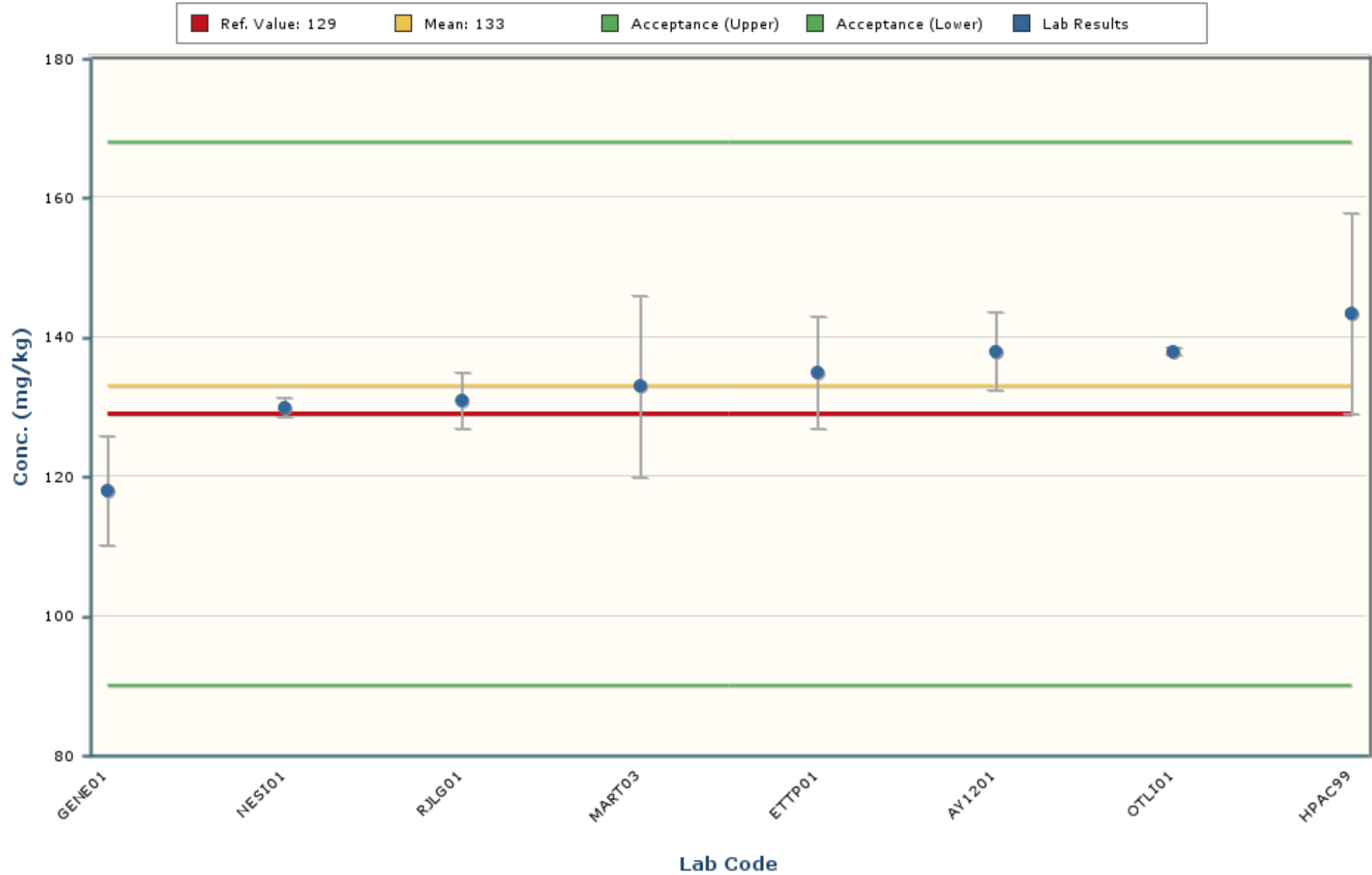
The chart mean excludes values outside of a bias range of $\pm 30\%$.

The chart shows only data points with values between 2.5 and 11.7 (± 5 Standard Deviations).

The error bars encompassing each result are plotted at $\pm$ one standard deviation.

Barium

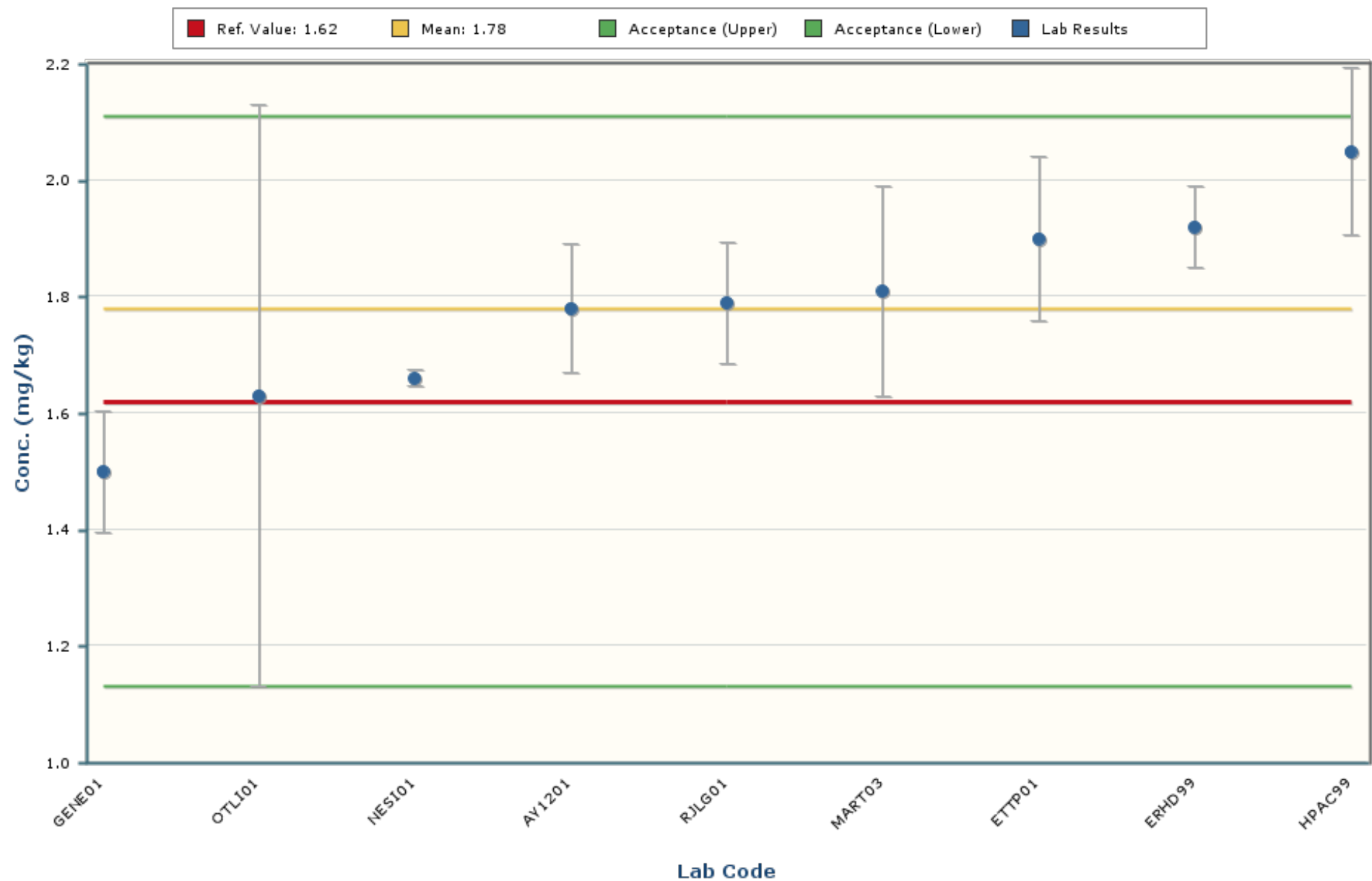
MAPEP-26-MaS54



Notes:
The chart mean excludes values outside of a bias range of $\pm 30\%$.
The chart shows only data points with values between 96 and 171 (± 5 Standard Deviations).
The error bars encompassing each result are plotted at $\pm$ one standard deviation.

Beryllium

MAPEP-26-MaS54



Notes:

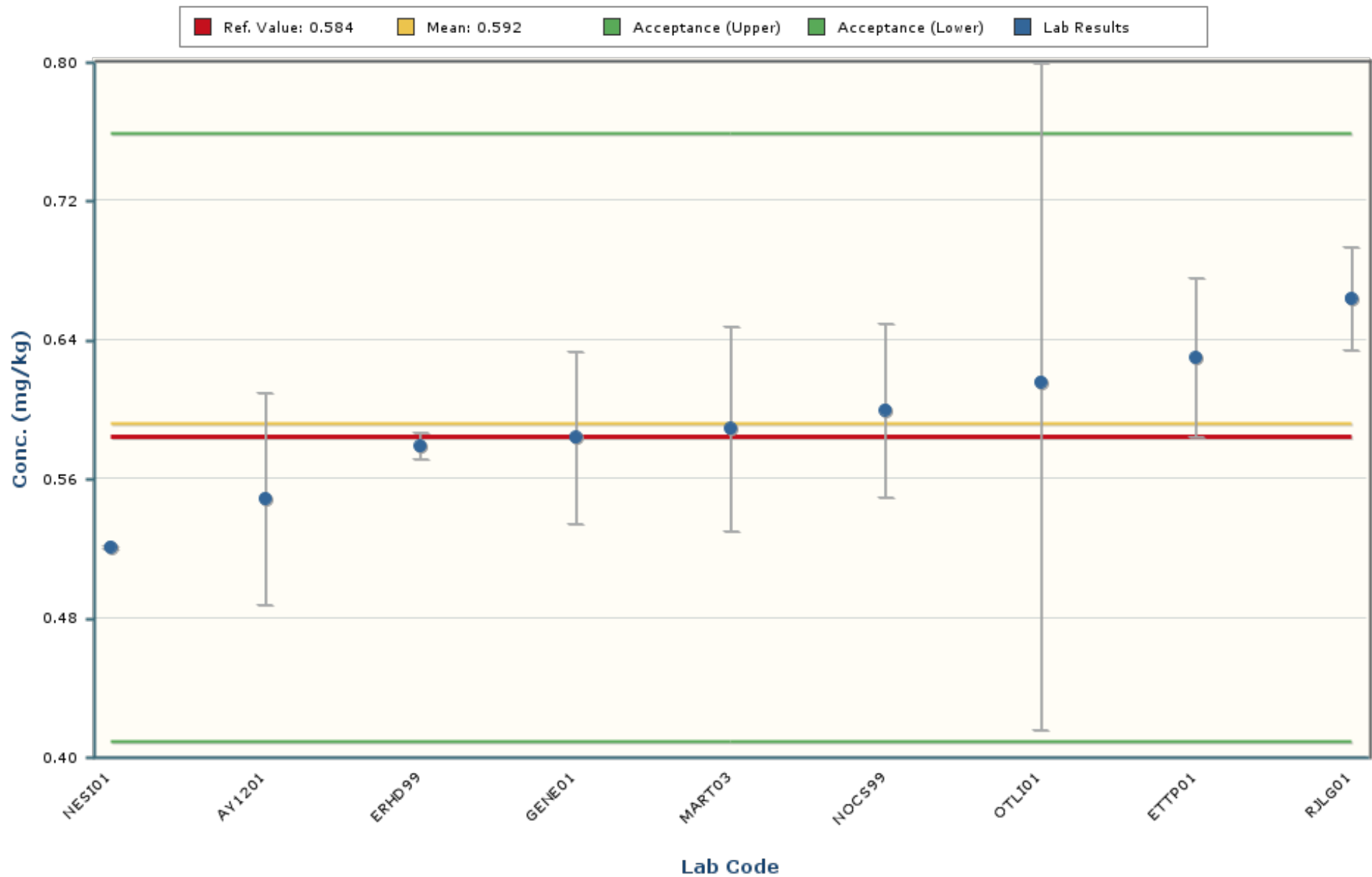
The chart mean excludes values outside of a bias range of $\pm 30\%$.

The chart shows only data points with values between 0.95 and 2.62 (± 5 Standard Deviations).

The error bars encompassing each result are plotted at $\pm$ one standard deviation.

Cadmium

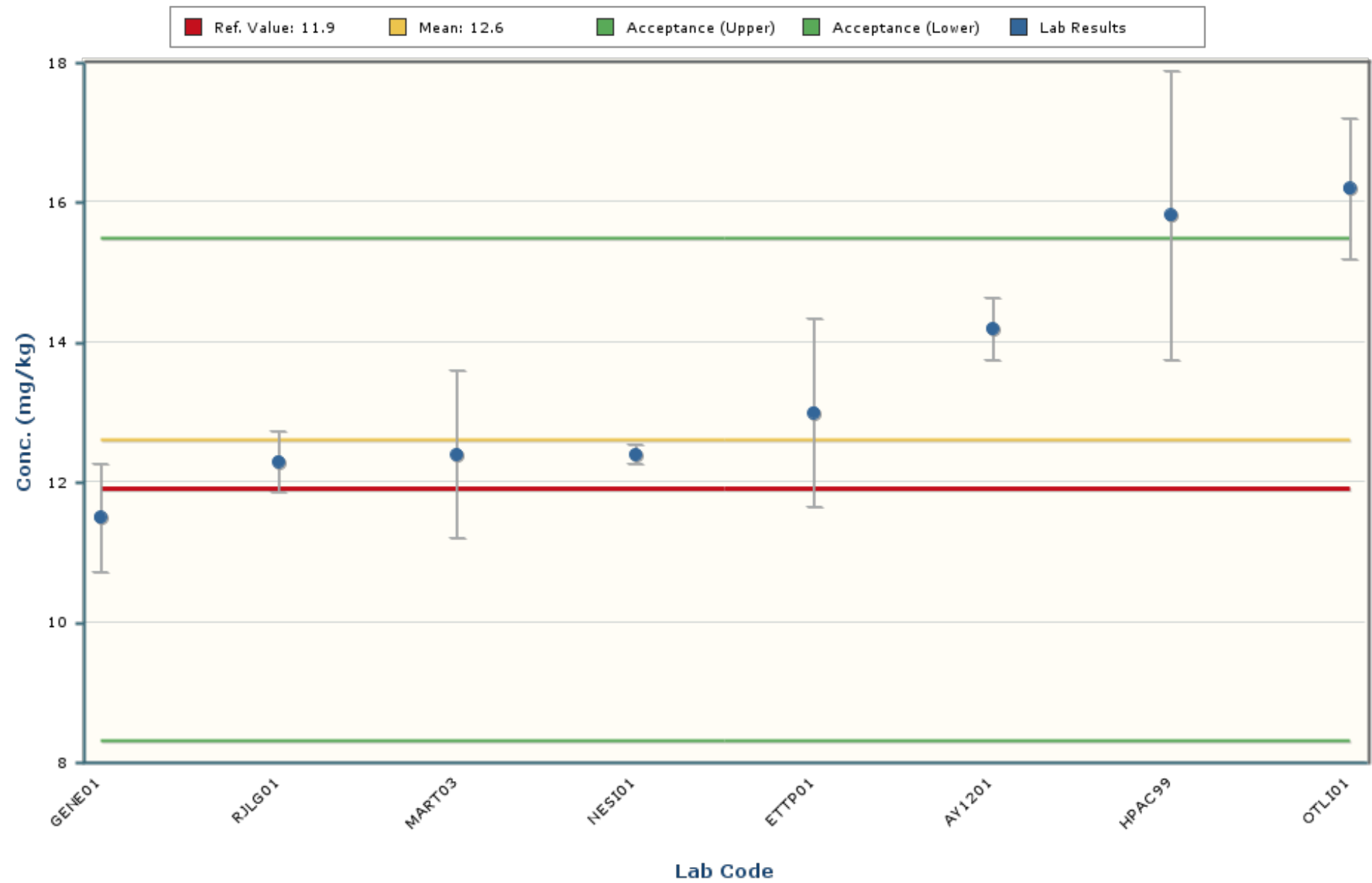
MAPEP-26-MaS54



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 0.818 (± 5 Standard Deviations).
The error bars encompassing each result are plotted at ± 1 standard deviation.

Chromium

MAPEP-26-MaS54



Notes:

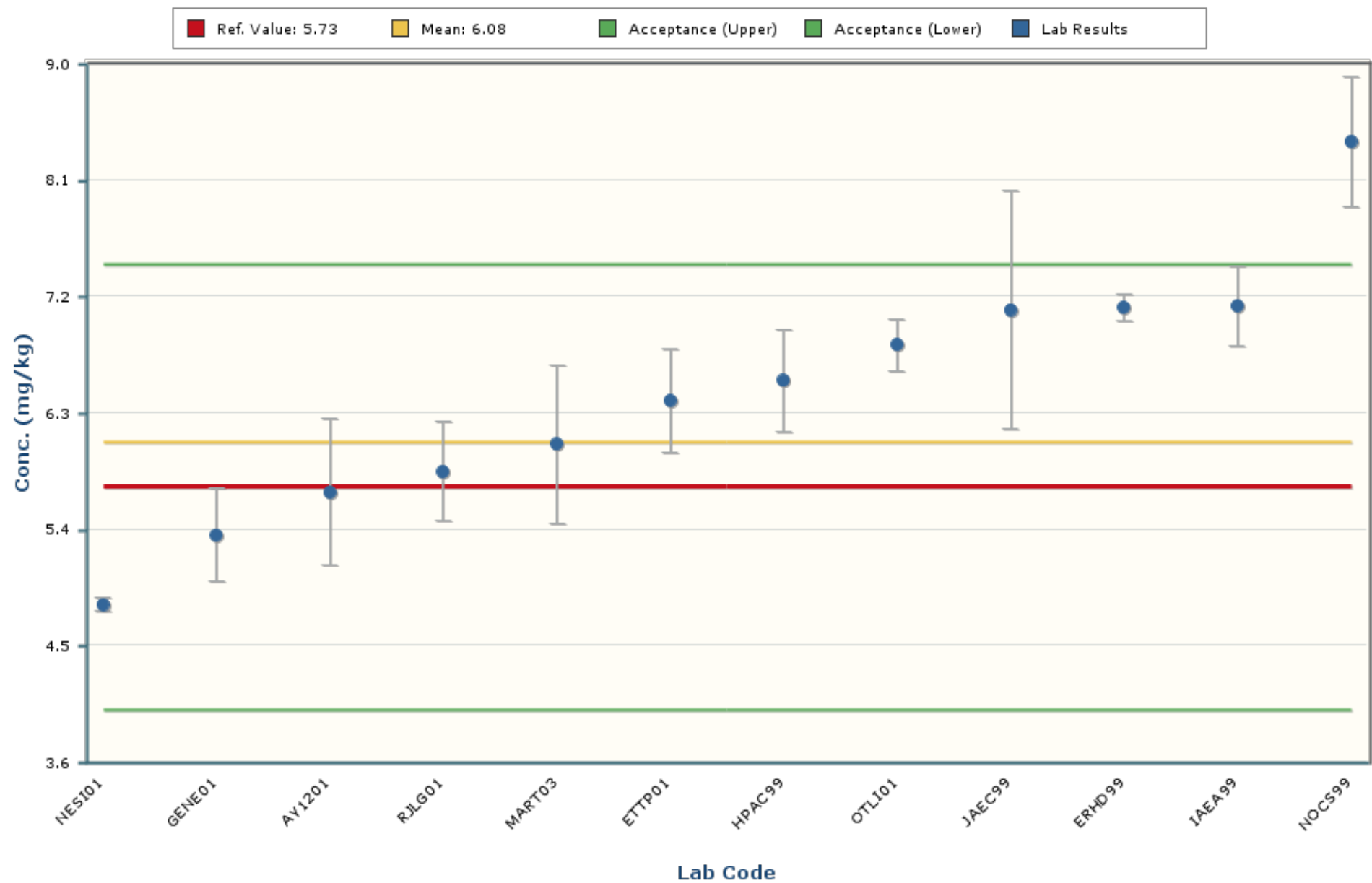
The chart mean excludes values outside of a bias range of $\pm 30\%$.

The chart shows only data points with values between 8.1 and 17.2 (± 5 Standard Deviations).

The error bars encompassing each result are plotted at $\pm$ one standard deviation.

Cobalt

MAPEP-26-MaS54



Notes:

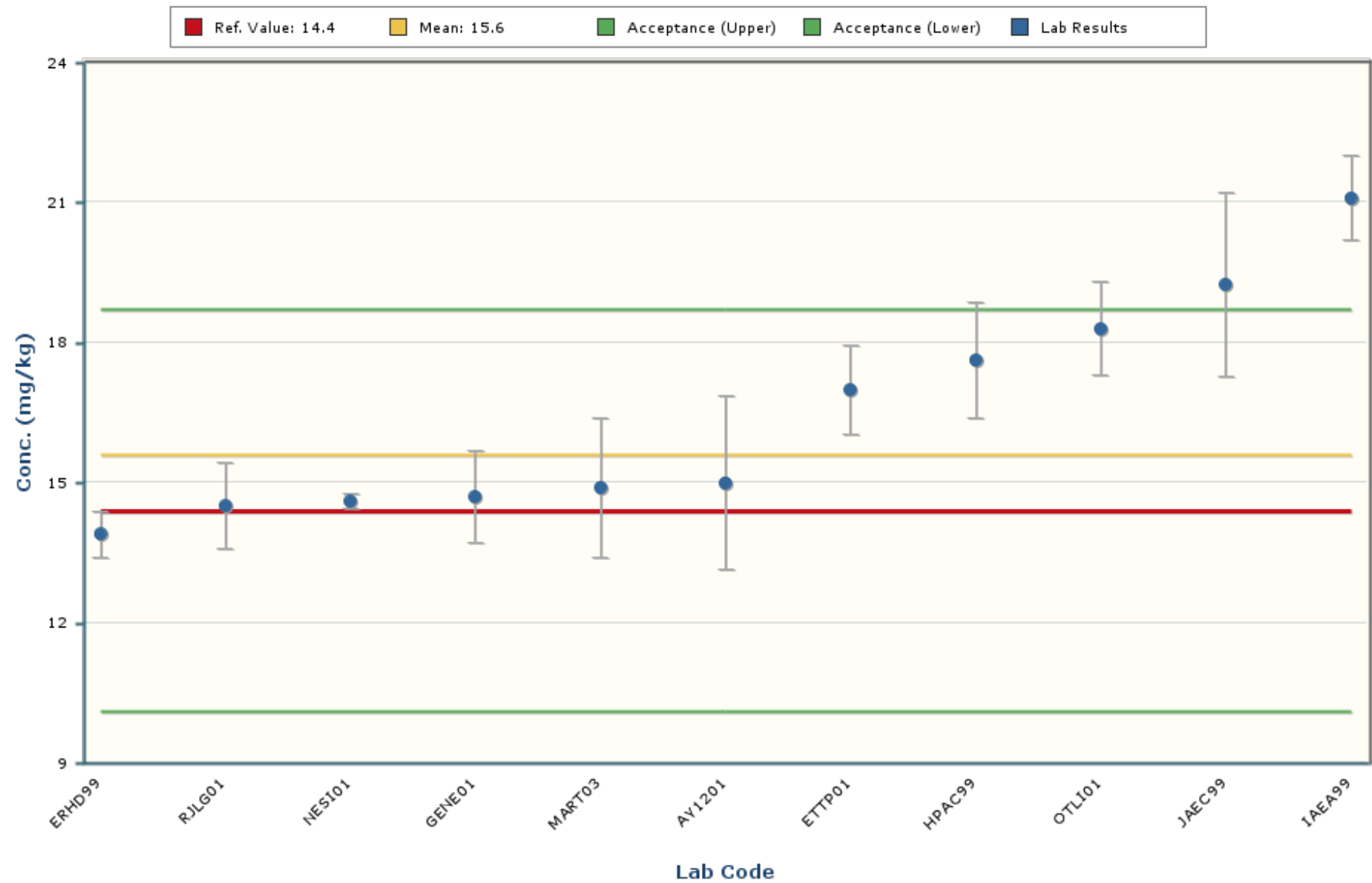
The chart mean excludes values outside of a bias range of $\pm 30\%$.

The chart shows only data points with values between 2.42 and 9.73 (± 5 Standard Deviations).

The error bars encompassing each result are plotted at $\pm$ one standard deviation.

Copper

MAPEP-26-MaS54



Notes:

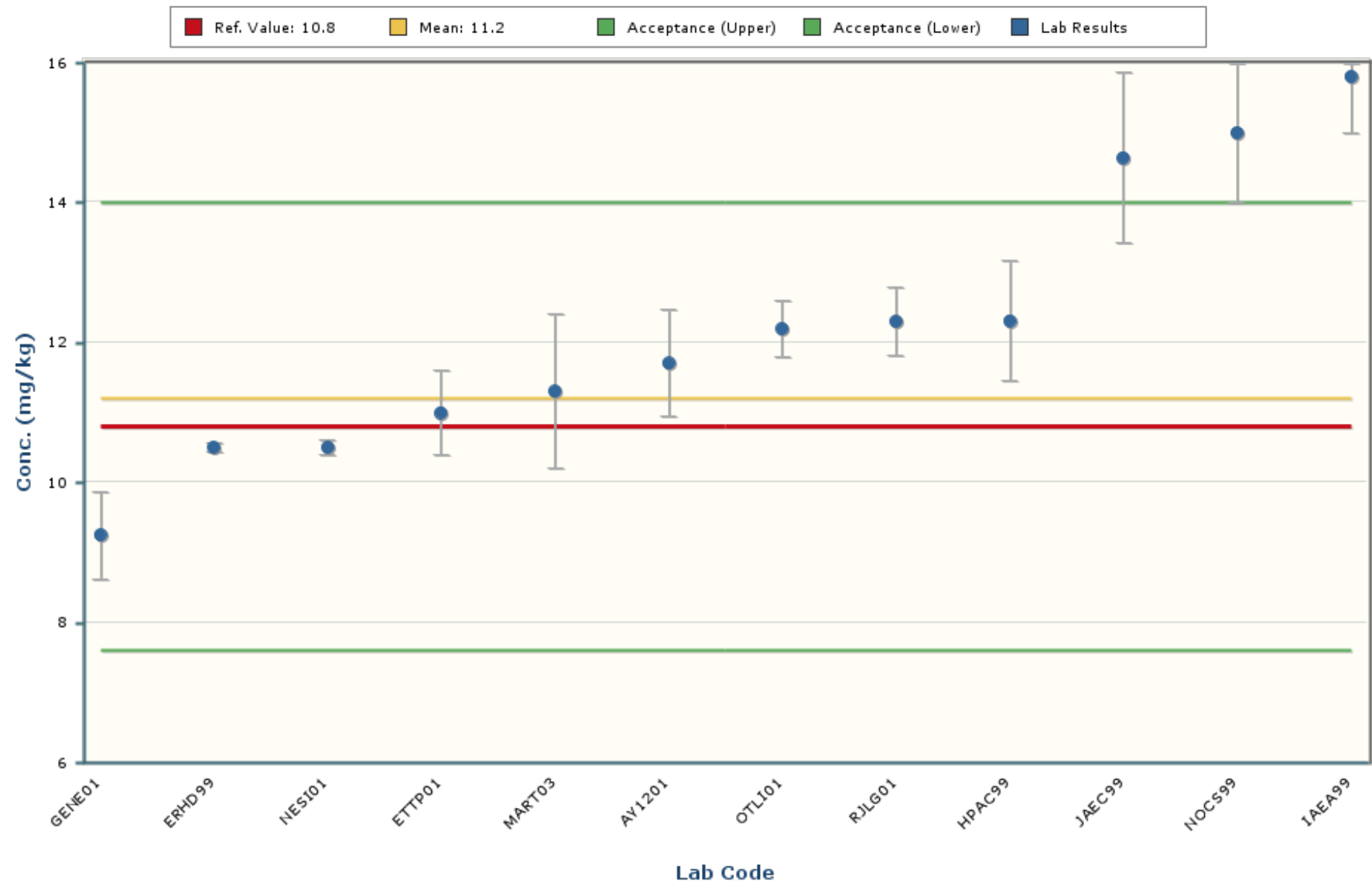
The chart mean excludes values outside of a bias range of $\pm 30\%$.

The chart shows only data points with values between 7.7 and 23.5 (± 5 Standard Deviations).

The error bars encompassing each result are plotted at $\pm$ one standard deviation.

Lead

MAPEP-26-MaS54



Notes:

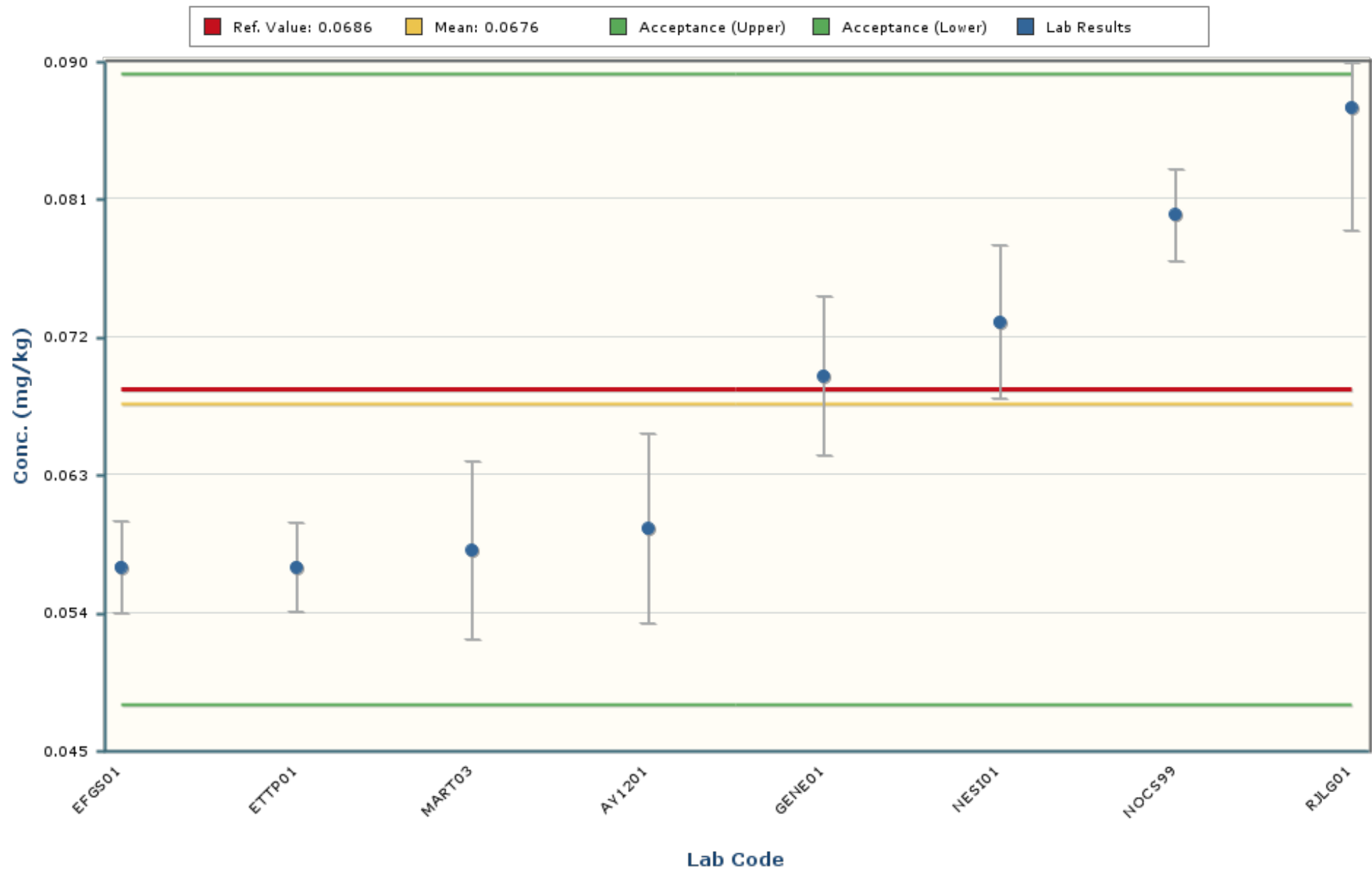
The chart mean excludes values outside of a bias range of $\pm 30\%$.

The chart shows only data points with values between 6.1 and 16.4 (± 5 Standard Deviations).

The error bars encompassing each result are plotted at $\pm$ one standard deviation.

Mercury

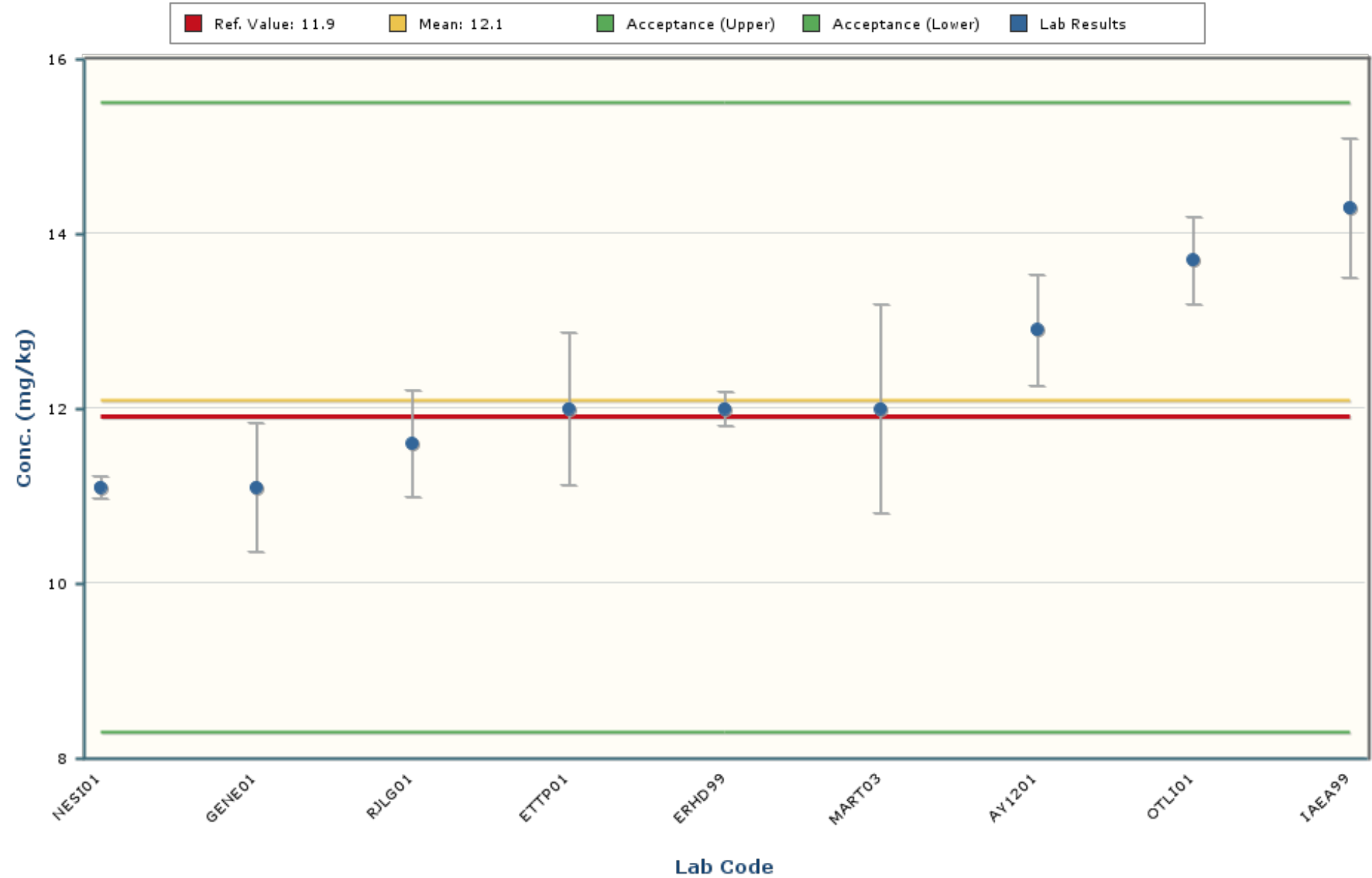
MAPEP-26-MaS54



Notes:
The chart mean excludes values outside of a bias range of $\pm 30\%$.
The chart shows only data points with values between 0.0096 and 0.1257 (± 5 Standard Deviations).
The error bars encompassing each result are plotted at $\pm$ one standard deviation.

Nickel

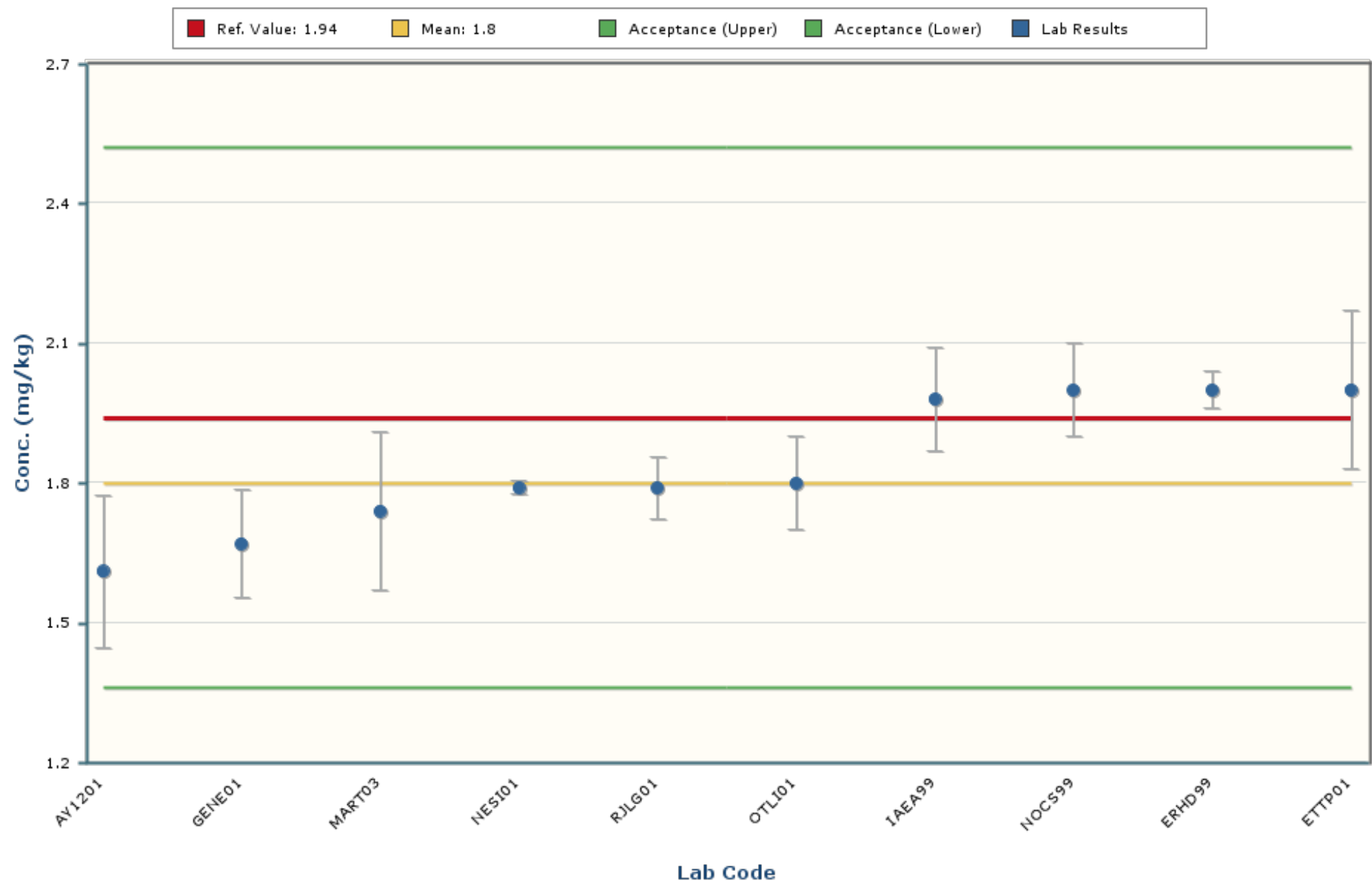
MAPEP-26-MaS54



Notes:
The chart mean excludes values outside of a bias range of $\pm 30\%$.
The chart shows only data points with values between 7.6 and 16.5 (± 5 Standard Deviations).
The error bars encompassing each result are plotted at ± 1 standard deviation.

Silver

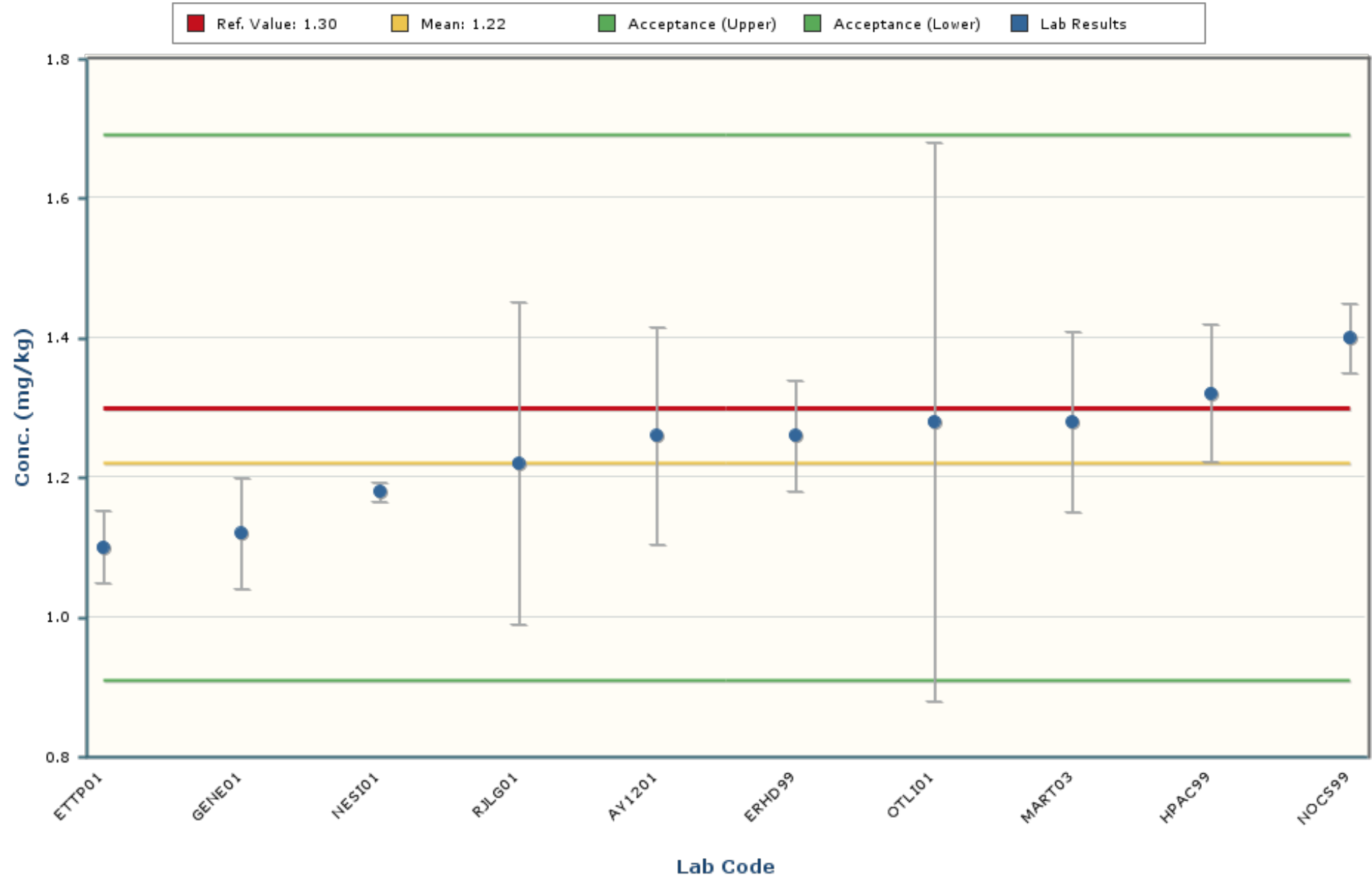
MAPEP-26-MaS54



Notes:
The chart mean excludes values outside of a bias range of $\pm 30\%$.
The chart shows only data points with values between 1.10 and 2.50 (± 5 Standard Deviations).
The error bars encompassing each result are plotted at $\pm$ one standard deviation.

Thallium

MAPEP-26-MaS54



Notes:

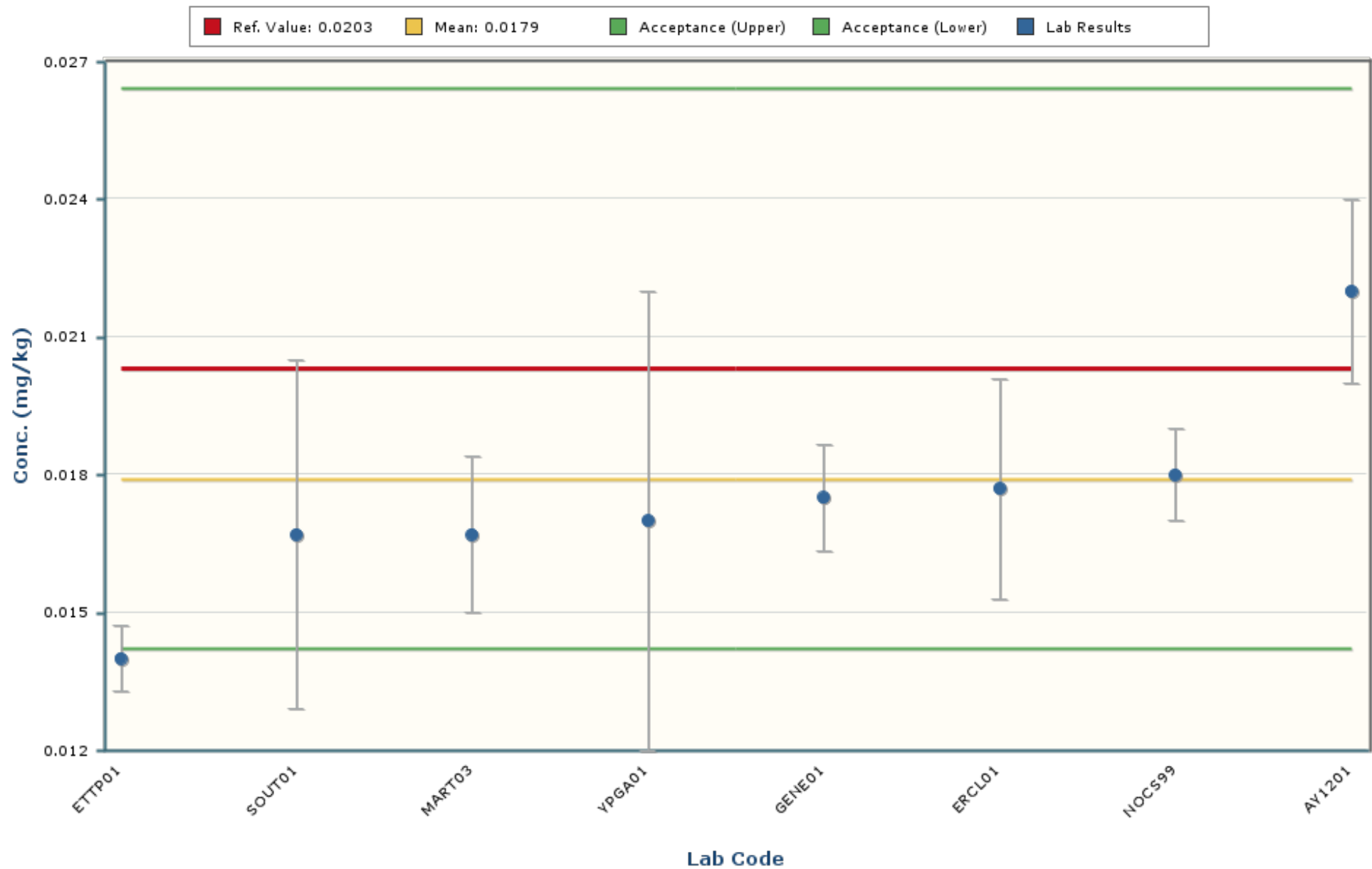
The chart mean excludes values outside of a bias range of $\pm 30\%$.

The chart shows only data points with values between 0.84 and 1.61 (± 5 Standard Deviations).

The error bars encompassing each result are plotted at $\pm$ one standard deviation.

Uranium-235

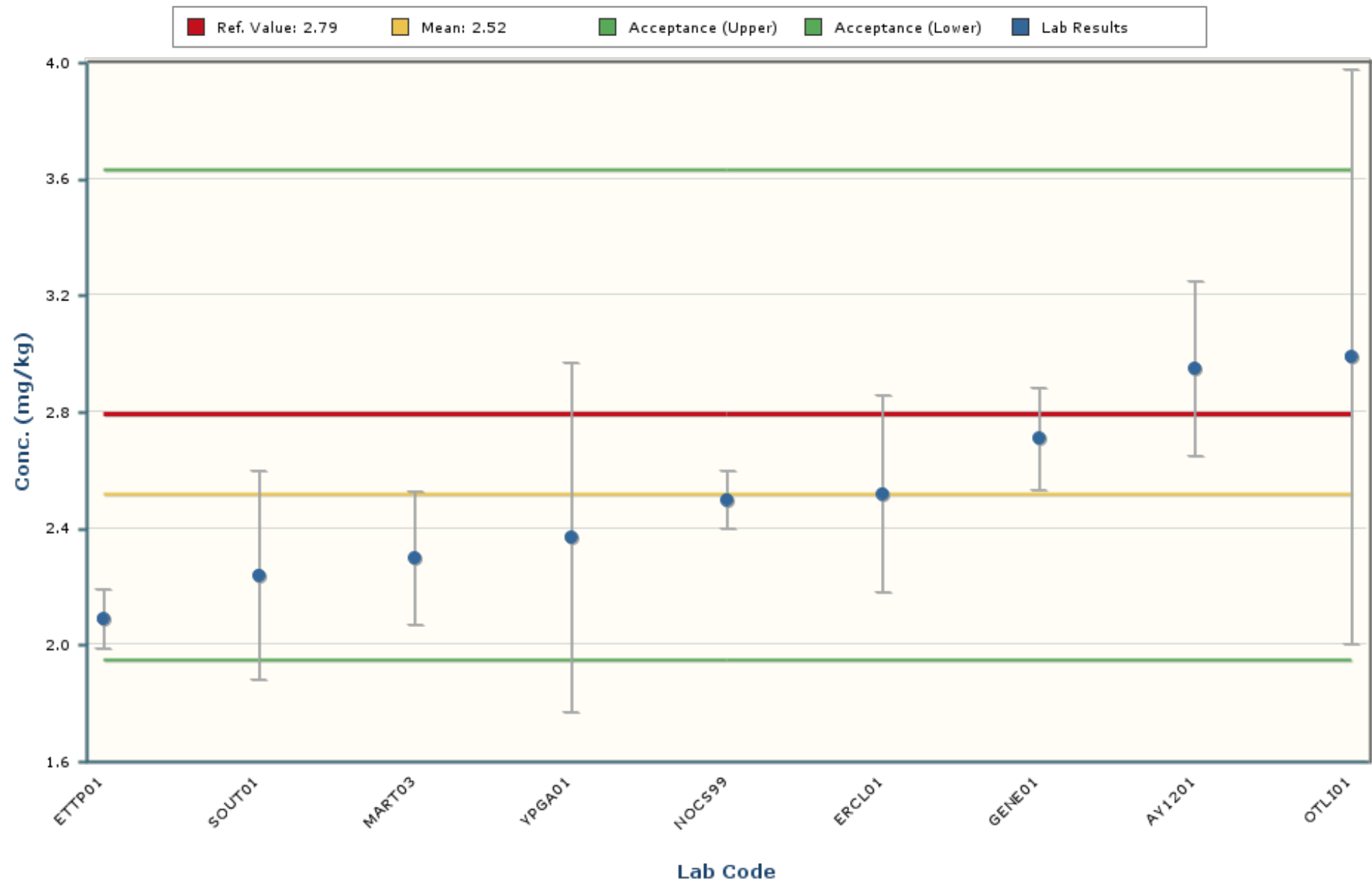
MAPEP-26-MaS54



Notes:
The chart mean excludes values outside of a bias range of $\pm 30\%$.
The chart shows only data points with values between 0.0087 and 0.0272 (± 5 Standard Deviations).
The error bars encompassing each result are plotted at $\pm$ one standard deviation.

Uranium-238

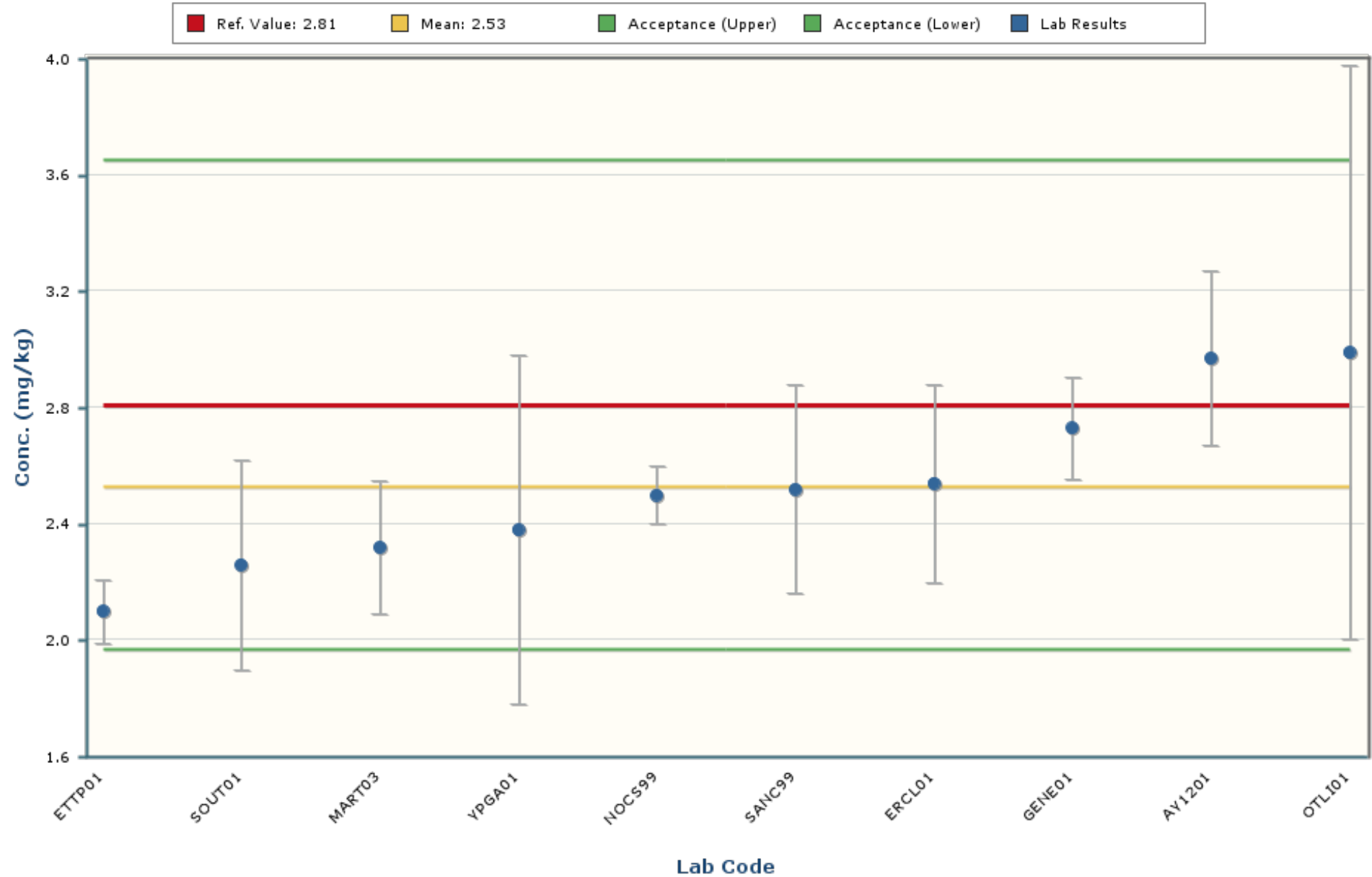
MAPEP-26-MaS54



Notes:
The chart mean excludes values outside of a bias range of $\pm 30\%$.
The chart shows only data points with values between 0.96 and 4.08 (± 5 Standard Deviations).
The error bars encompassing each result are plotted at $\pm$ one standard deviation.

Uranium-Total

MAPEP-26-MaS54



Notes:

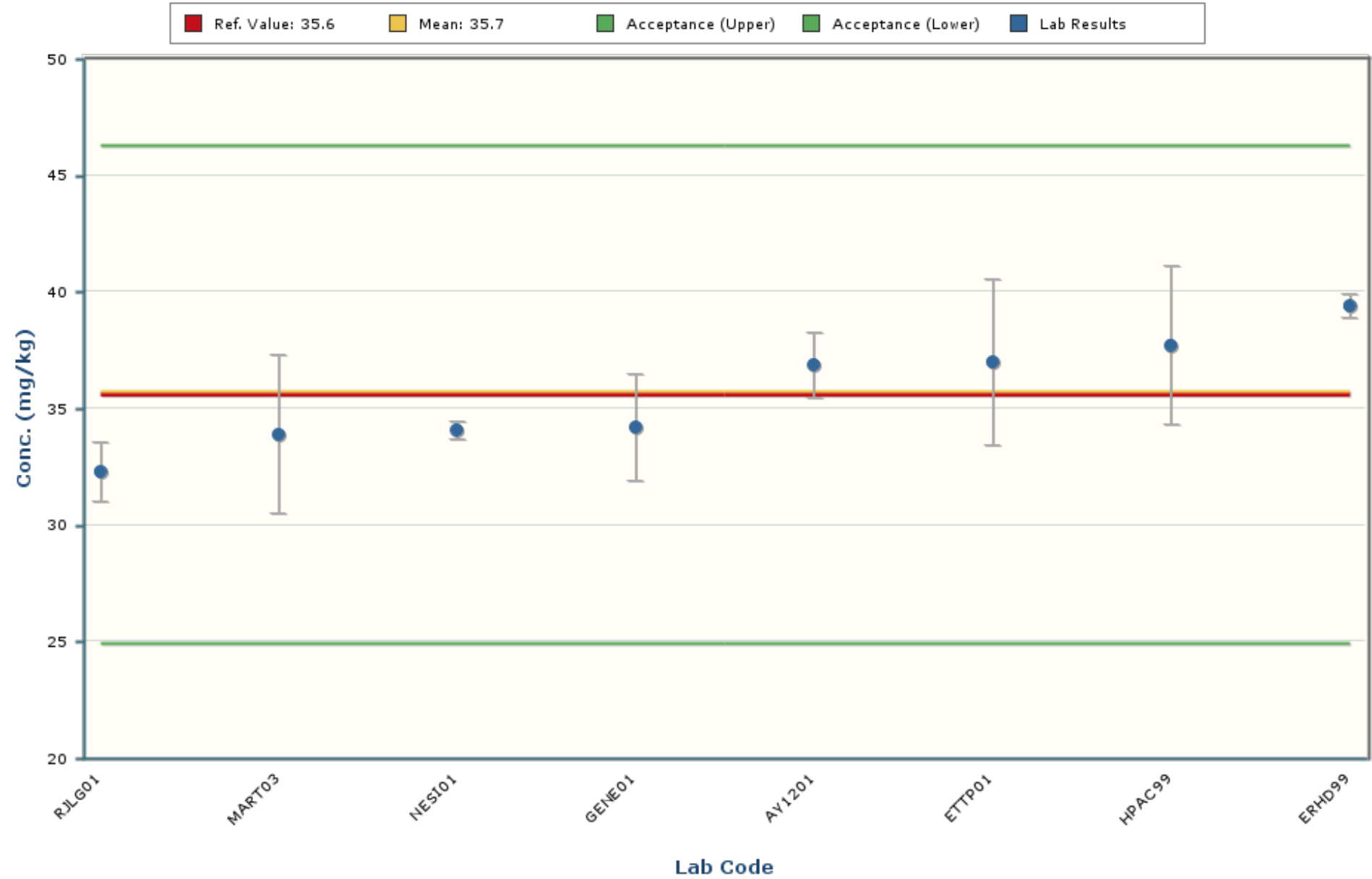
The chart mean excludes values outside of a bias range of $\pm 30\%$.

The chart shows only data points with values between 1.07 and 3.99 (± 5 Standard Deviations).

The error bars encompassing each result are plotted at $\pm$ one standard deviation.

Vanadium

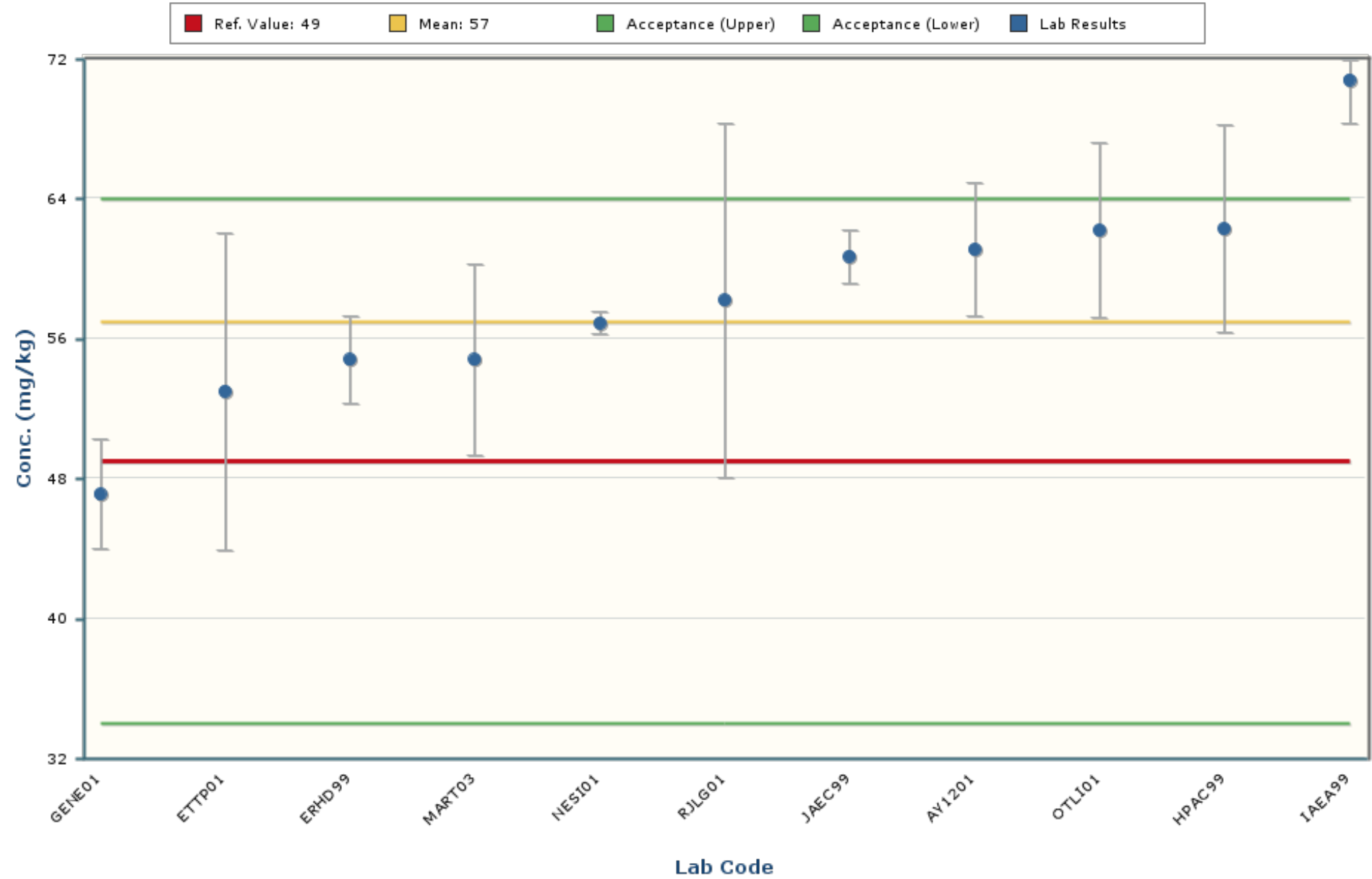
MAPEP-26-MaS54



Notes:
The chart mean excludes values outside of a bias range of $\pm 30\%$.
The chart shows only data points with values between 23.7 and 47.7 (± 5 Standard Deviations).
The error bars encompassing each result are plotted at $\pm$ one standard deviation.

Zinc

MAPEP-26-MaS54



Notes:

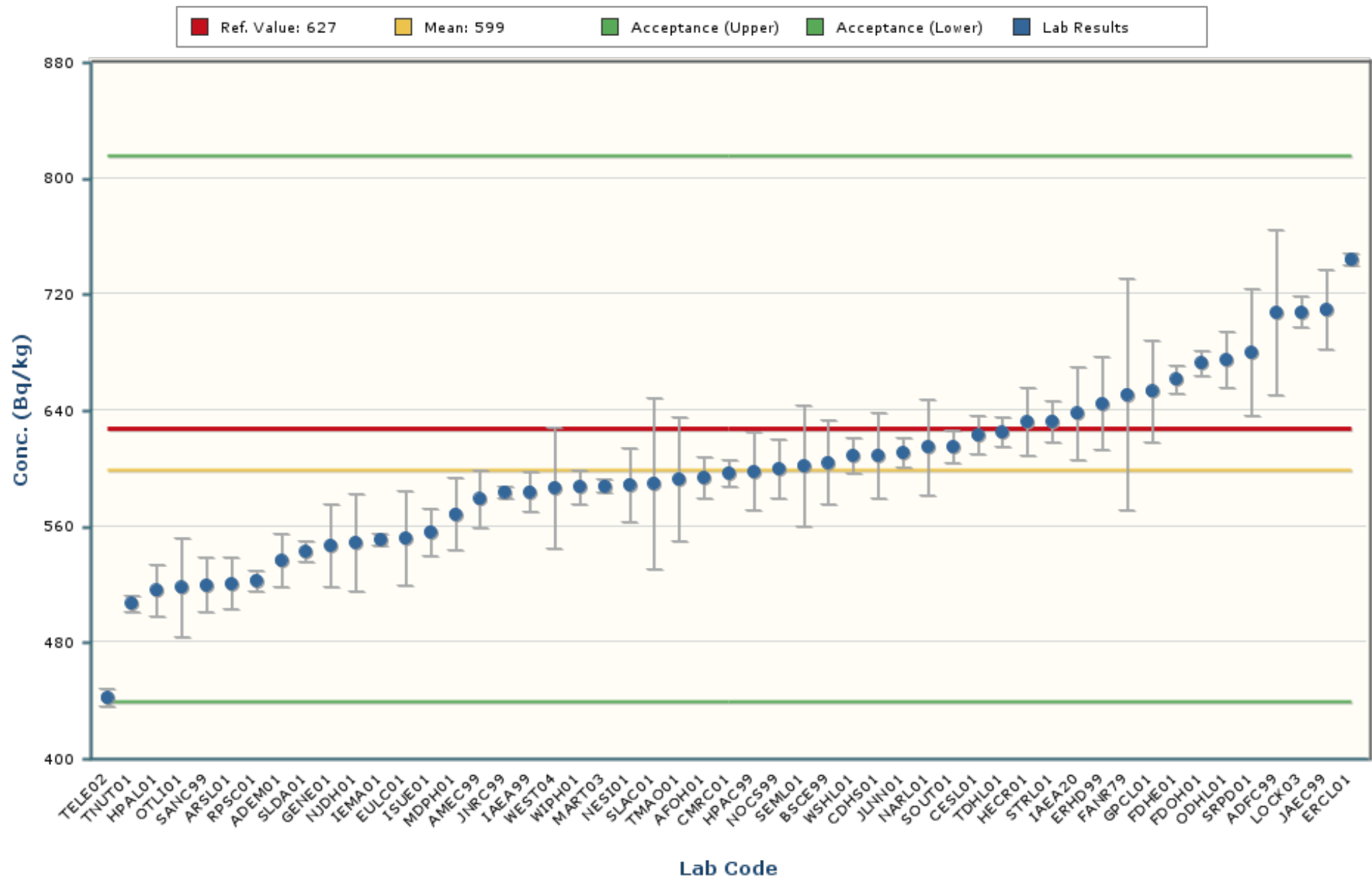
The chart mean excludes values outside of a bias range of $\pm 30\%$.

The chart shows only data points with values between 32 and 81 (± 5 Standard Deviations).

The error bars encompassing each result are plotted at $\pm$ one standard deviation.

Cesium-134

MAPEP-26-MaS54



Notes:

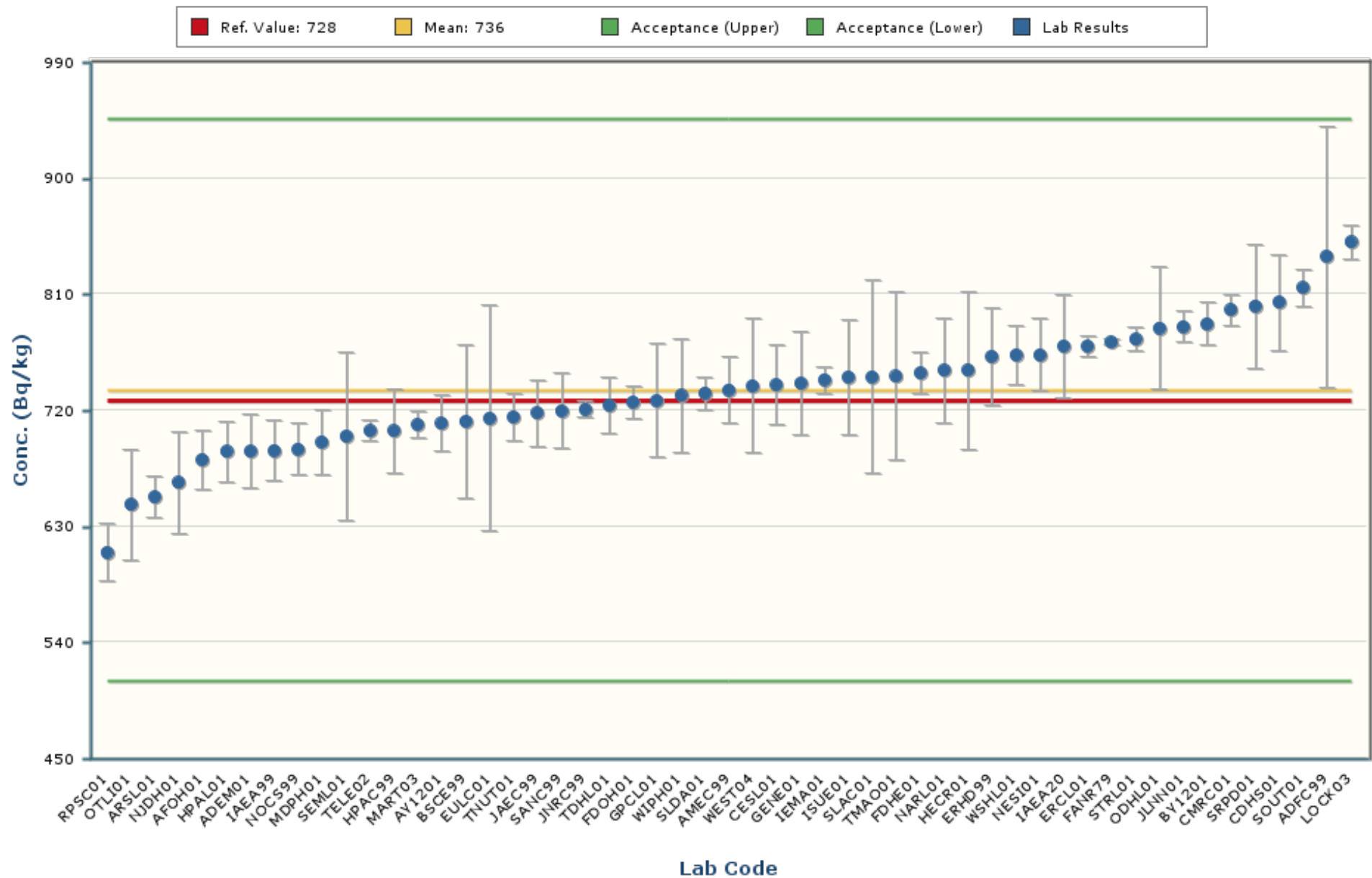
The chart mean excludes values outside of a bias range of $\pm 30\%$.

The chart shows only data points with values between 301 and 897 (± 5 Standard Deviations).

The error bars encompassing each result are plotted at $\pm$ one standard deviation.

Cesium-137

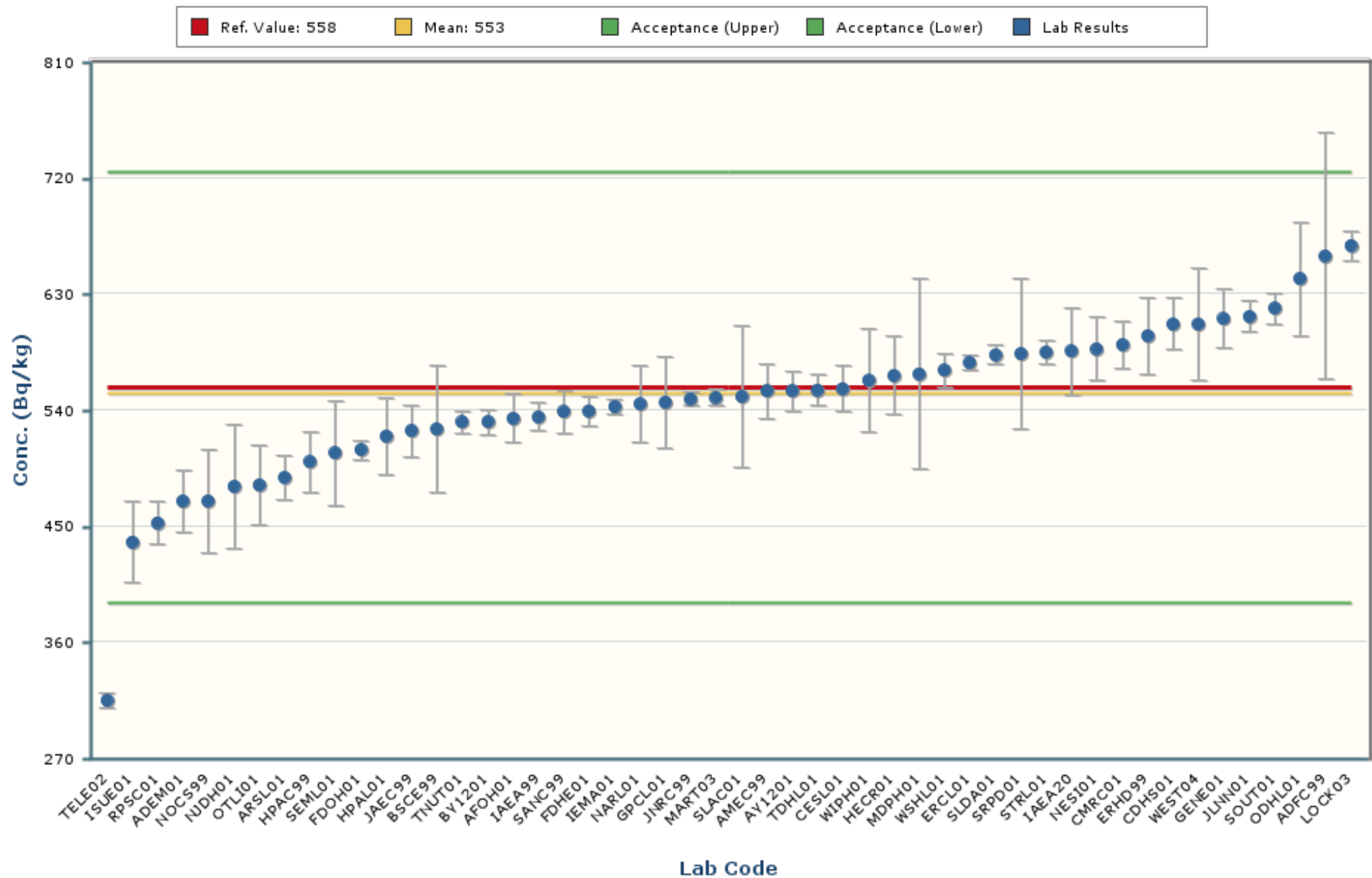
MAPEP-26-MaS54



Notes:
The chart mean excludes values outside of a bias range of $\pm 30\%$.
The chart shows only data points with values between 501 and 971 (± 5 Standard Deviations).
The error bars encompassing each result are plotted at $\pm$ one standard deviation.

Cobalt-57

MAPEP-26-MaS54



Notes:

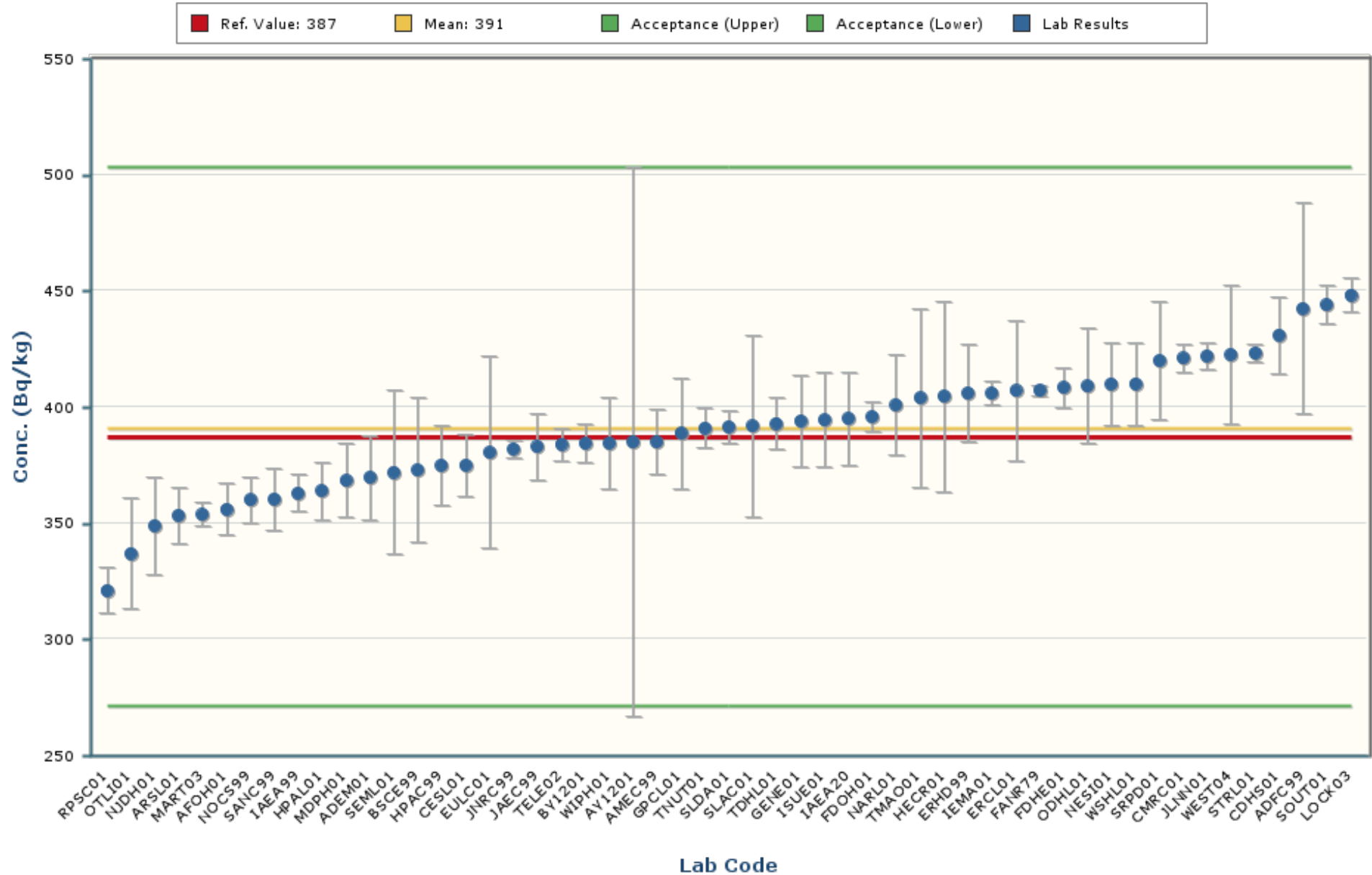
The chart mean excludes values outside of a bias range of $\pm 30\%$.

The chart shows only data points with values between 299 and 806 (± 5 Standard Deviations).

The error bars encompassing each result are plotted at $\pm$ one standard deviation.

Manganese-54

MAPEP-26-MaS54



Notes:

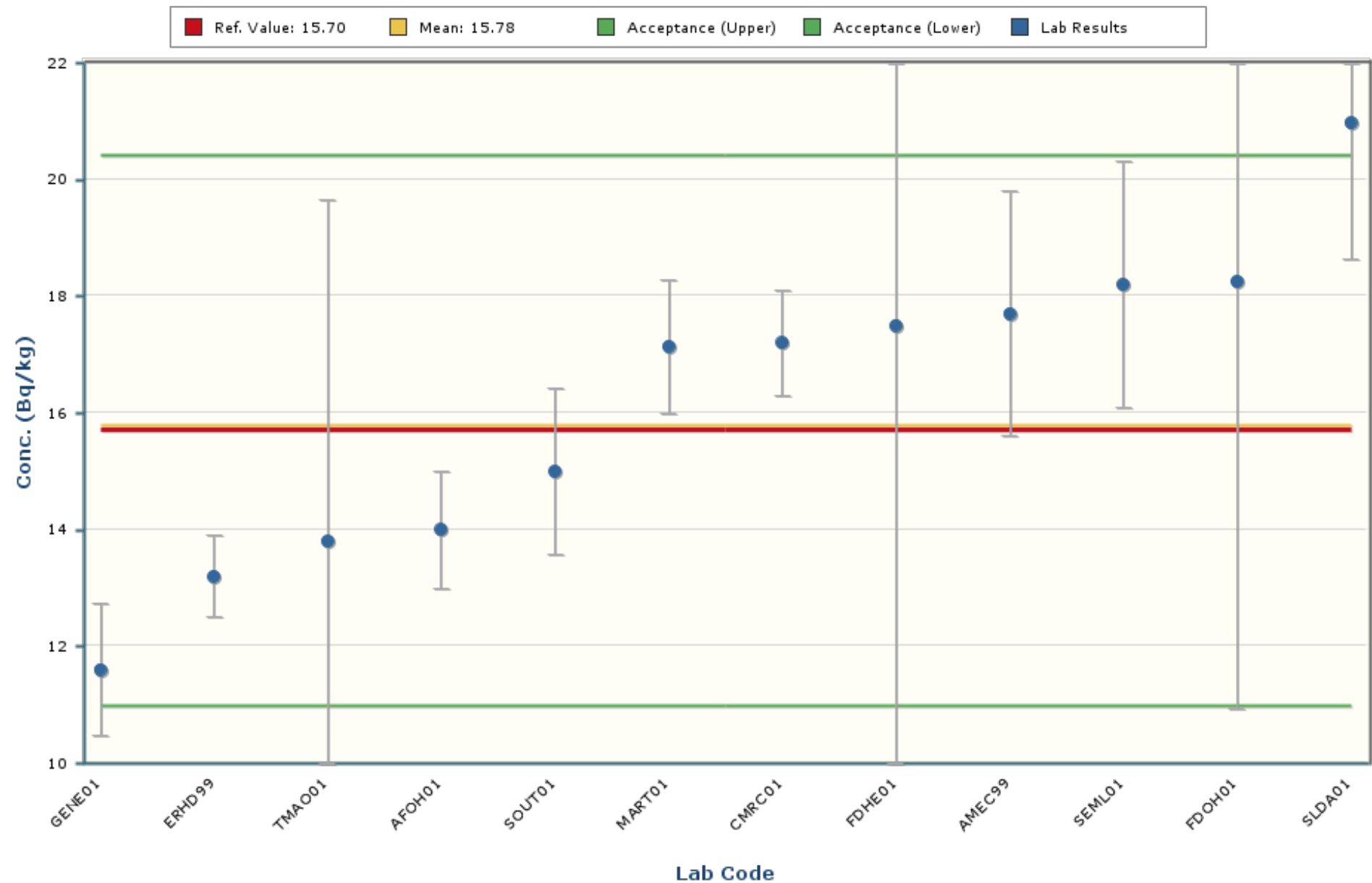
The chart mean excludes values outside of a bias range of $\pm 30\%$.

The chart shows only data points with values between 256 and 525 (± 5 Standard Deviations).

The error bars encompassing each result are plotted at $\pm$ one standard deviation.

Neptunium-237

MAPEP-26-MaS54



Notes:

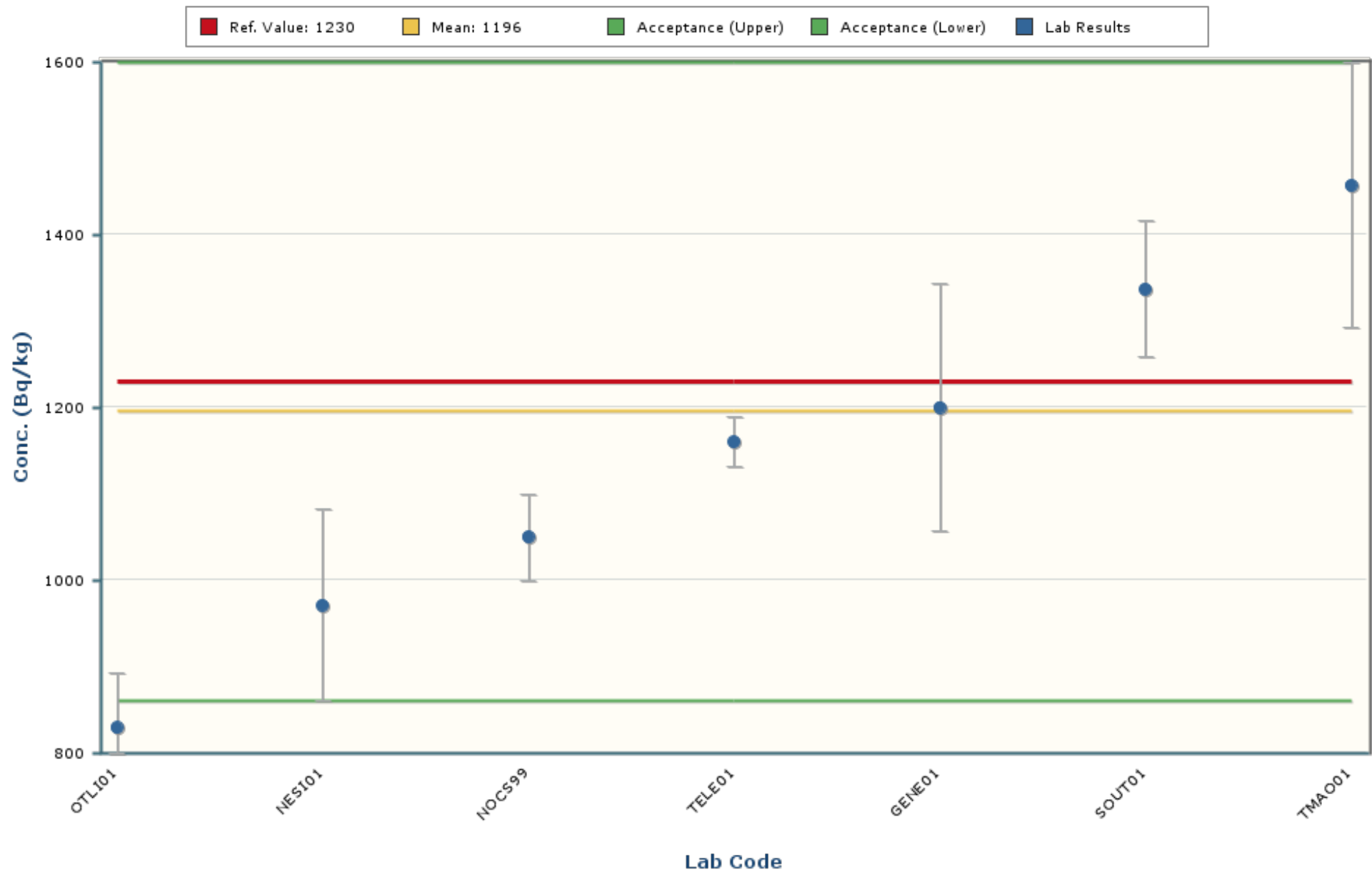
The chart mean excludes values outside of a bias range of $\pm 30\%$.

The chart shows only data points with values between 4.13 and 27.43 (± 5 Standard Deviations).

The error bars encompassing each result are plotted at $\pm$ one standard deviation.

Nickel-63

MAPEP-26-MaS54



Notes:

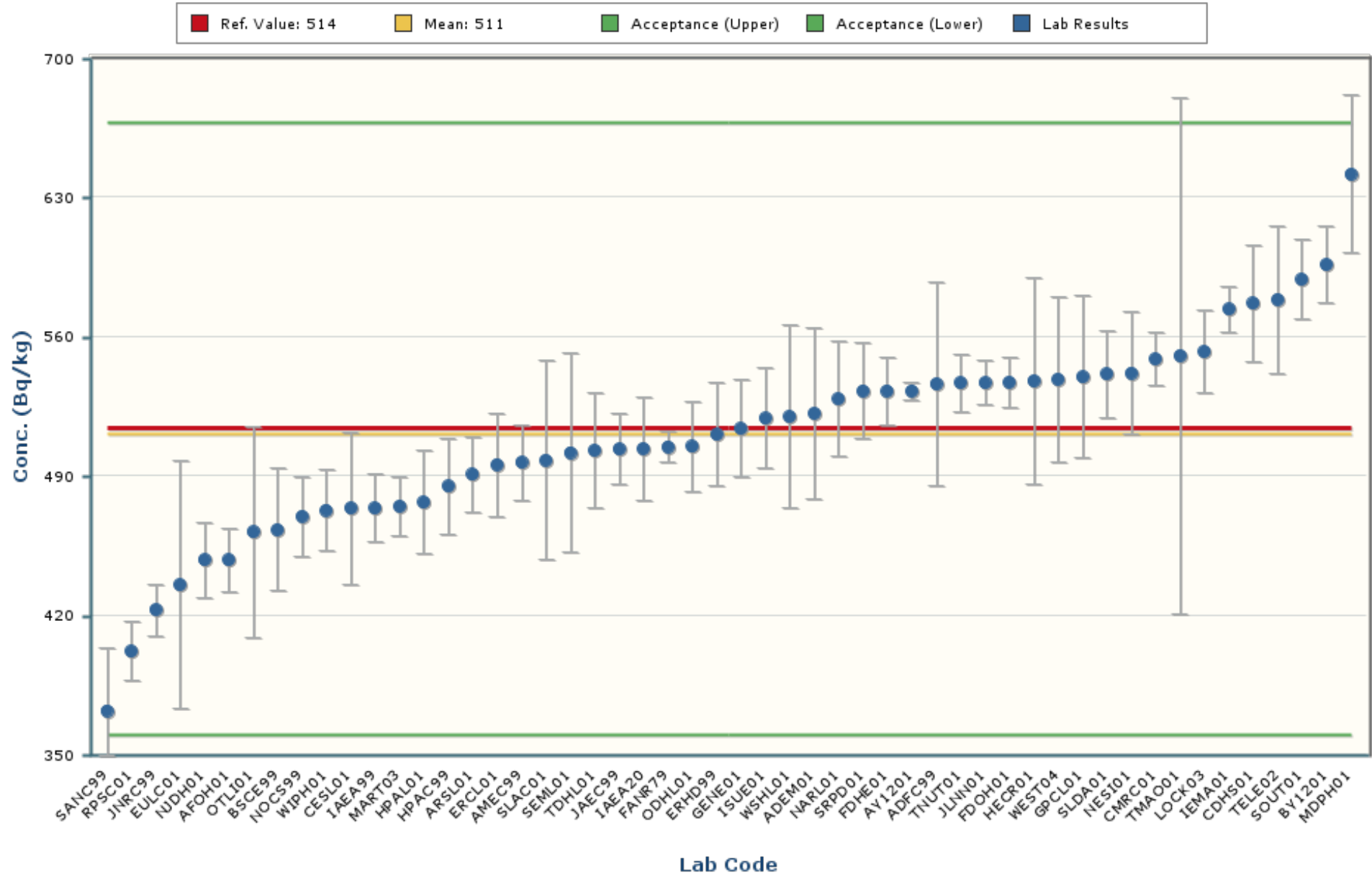
The chart mean excludes values outside of a bias range of $\pm 30\%$.

The chart shows only data points with values between 298 and 2093 (± 5 Standard Deviations).

The error bars encompassing each result are plotted at $\pm$ one standard deviation.

Potassium-40

MAPEP-26-MaS54



Notes:

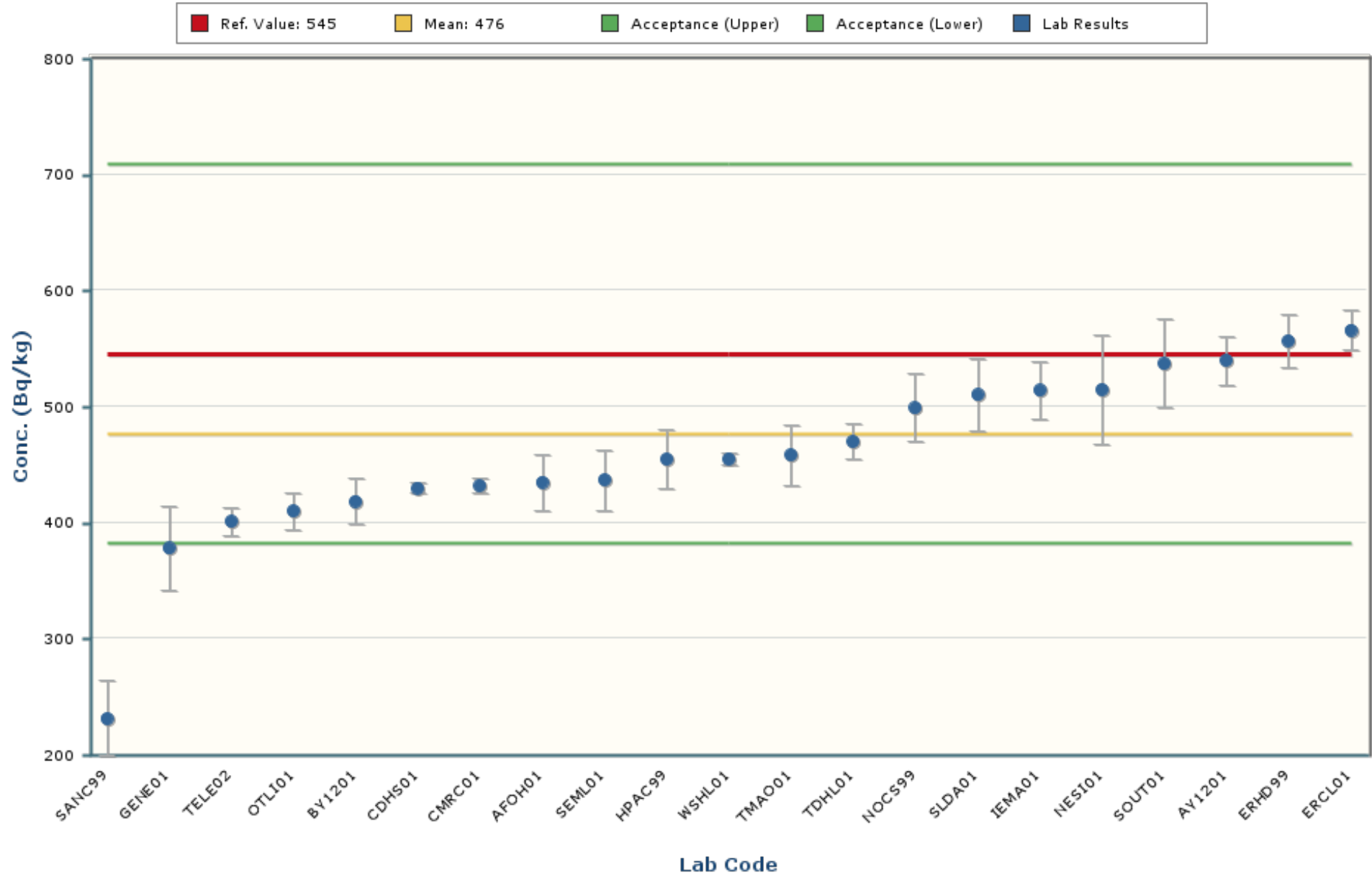
The chart mean excludes values outside of a bias range of $\pm 30\%$.

The chart shows only data points with values between 263 and 758 (± 5 Standard Deviations).

The error bars encompassing each result are plotted at $\pm$ one standard deviation.

Strontium-90

MAPEP-26-MaS54



Notes:

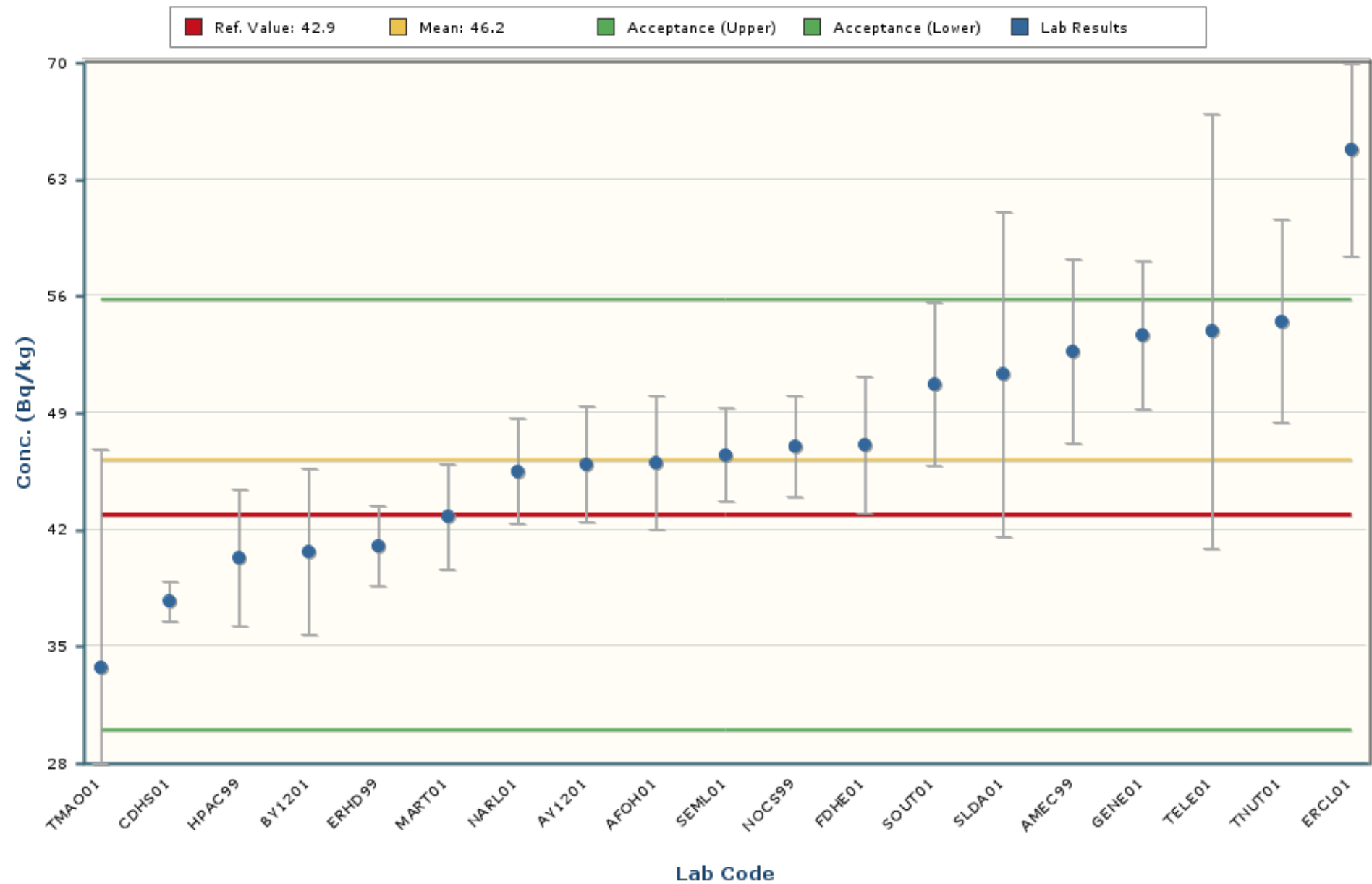
The chart mean excludes values outside of a bias range of $\pm 30\%$.

The chart shows only data points with values between 215 and 736 (± 5 Standard Deviations).

The error bars encompassing each result are plotted at $\pm$ one standard deviation.

Thorium-228

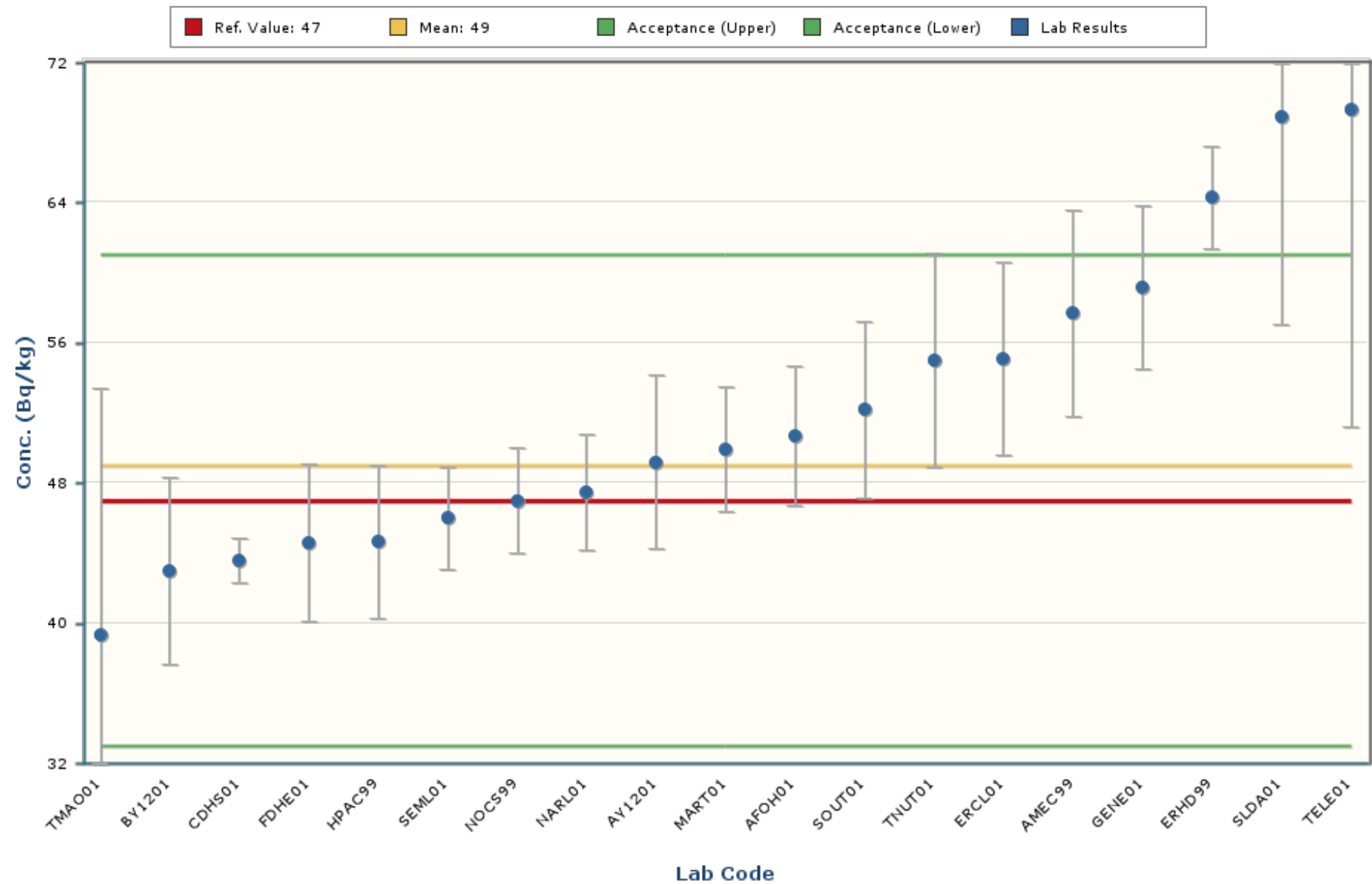
MAPEP-26-MaS54



Notes:
The chart mean excludes values outside of a bias range of $\pm 30\%$.
The chart shows only data points with values between 16.3 and 76.0 (± 5 Standard Deviations).
The error bars encompassing each result are plotted at $\pm$ one standard deviation.

Thorium-230

MAPEP-26-MaS54



Notes:

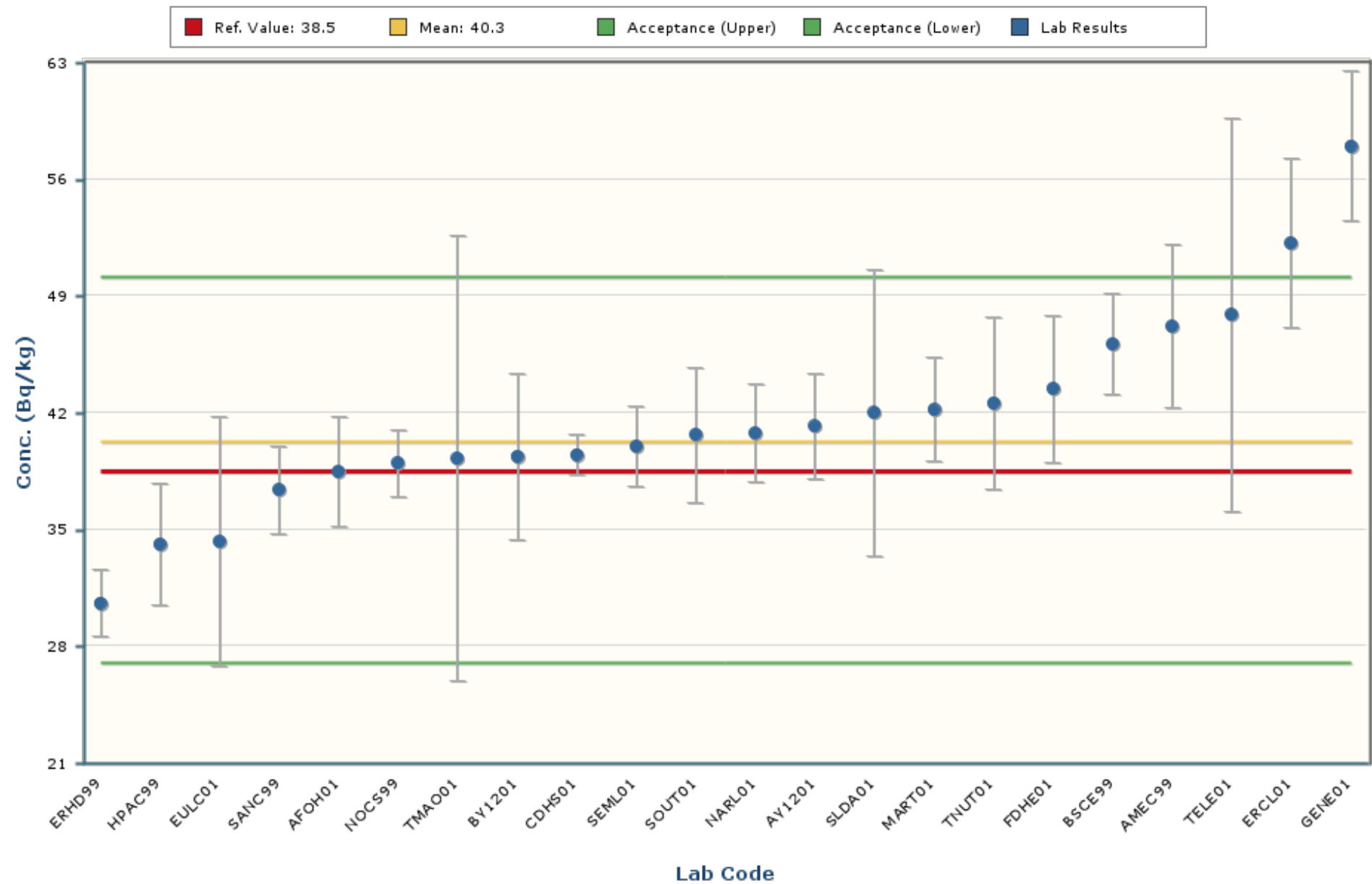
The chart mean excludes values outside of a bias range of $\pm 30\%$.

The chart shows only data points with values between 21 and 77 (± 5 Standard Deviations).

The error bars encompassing each result are plotted at $\pm$ one standard deviation.

Thorium-232

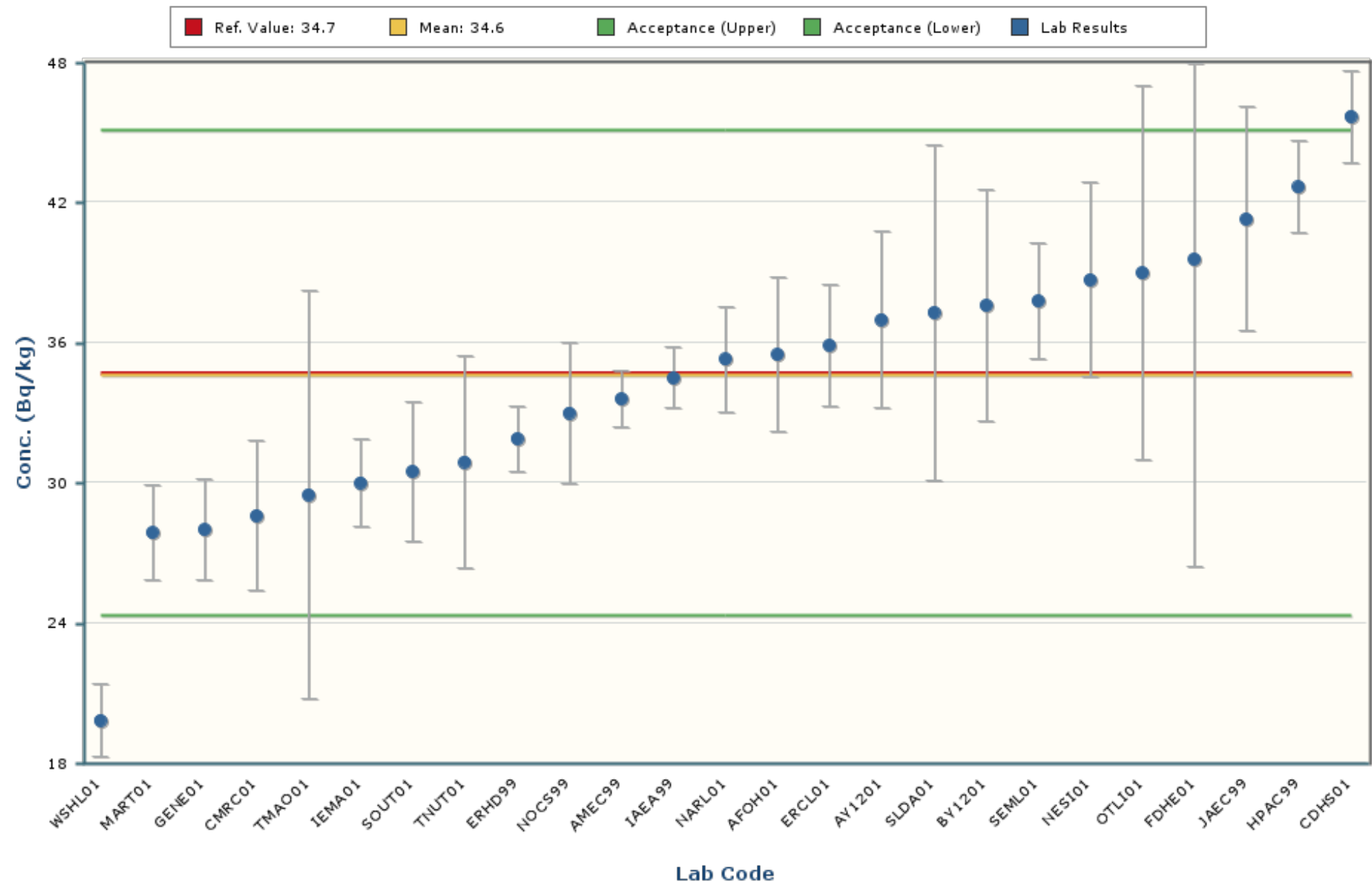
MAPEP-26-MaS54



Notes:
The chart mean excludes values outside of a bias range of $\pm 30\%$.
The chart shows only data points with values between 19.0 and 61.7 (± 5 Standard Deviations).
The error bars encompassing each result are plotted at $\pm$ one standard deviation.

Uranium-234

MAPEP-26-MaS54



Notes:

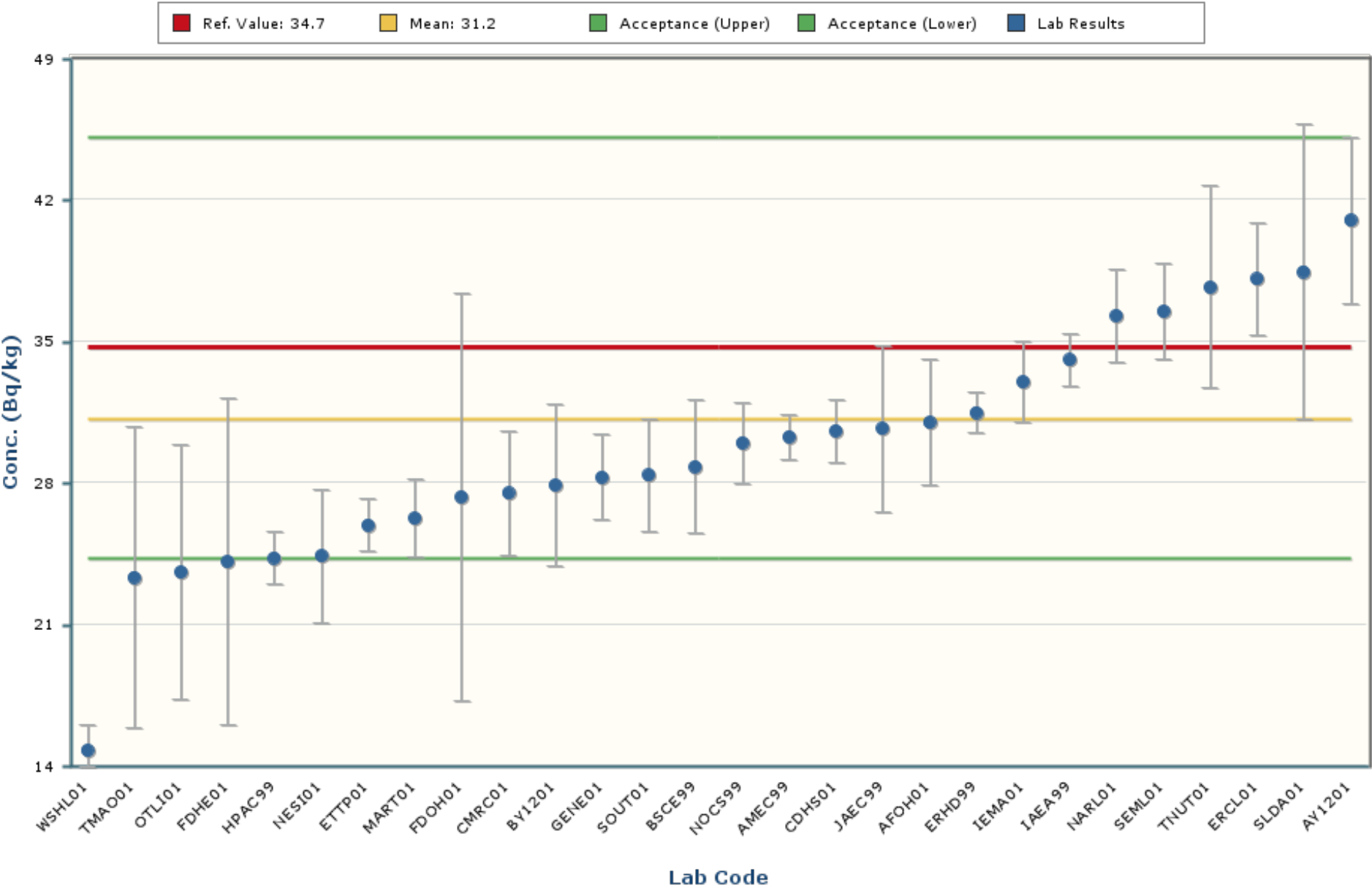
The chart mean excludes values outside of a bias range of $\pm 30\%$.

The chart shows only data points with values between 12.8 and 56.5 (± 5 Standard Deviations).

The error bars encompassing each result are plotted at $\pm$ one standard deviation.

Uranium-238

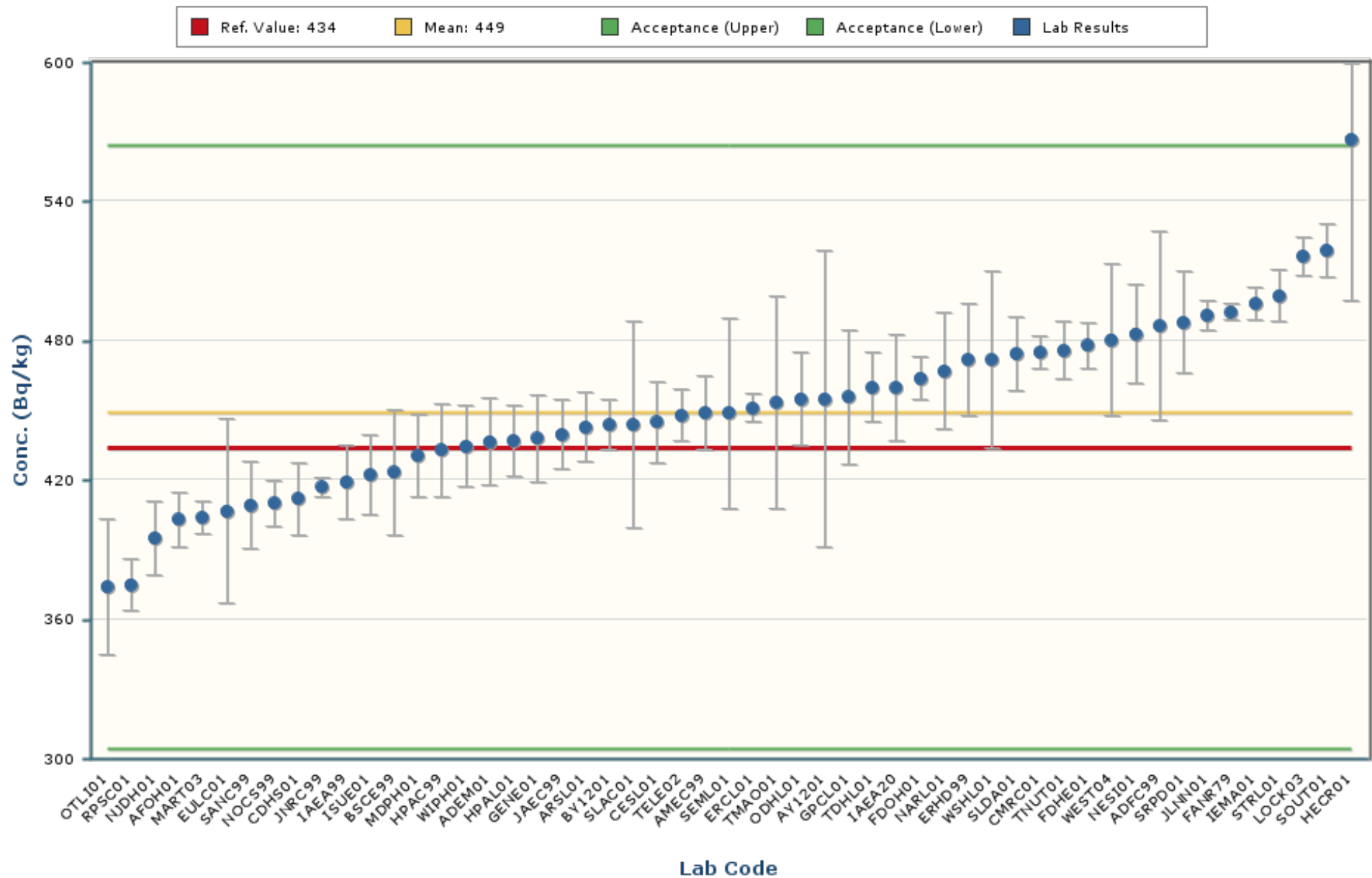
MAPEP-26-MaS54



Notes:
The chart mean excludes values outside of a bias range of $\pm 30\%$.
The chart shows only data points with values between 7.5 and 54.8 (± 5 Standard Deviations).
The error bars encompassing each result are plotted at $\pm$ one standard deviation.

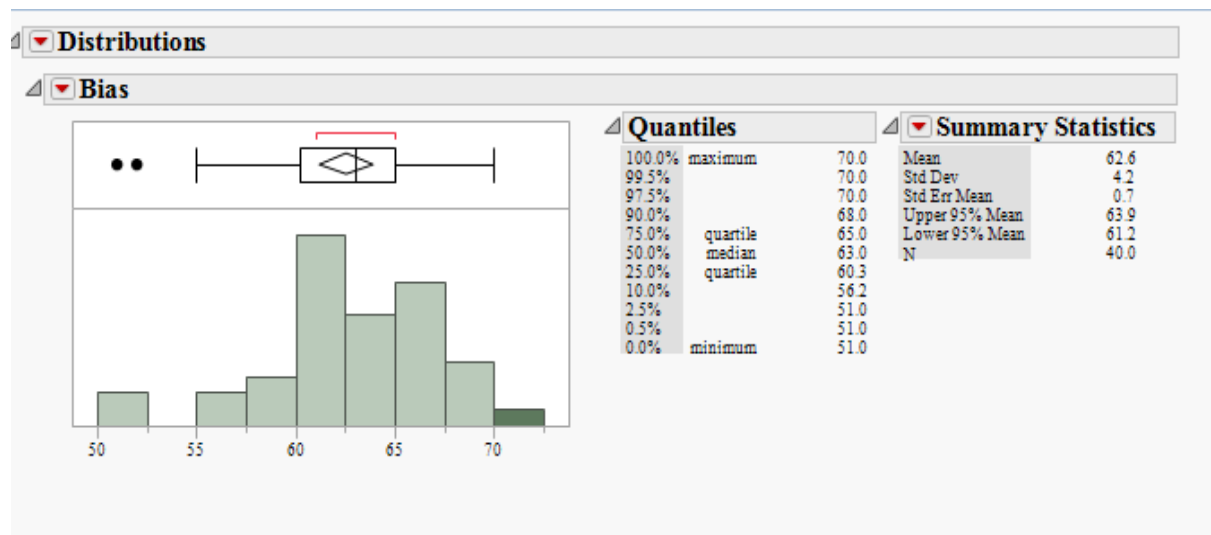
Zinc-65

MAPEP-26-MaS54



Notes:
The chart mean excludes values outside of a bias range of $\pm 30\%$.
The chart shows only data points with values between 282 and 616 (± 5 Standard Deviations).
The error bars encompassing each result are plotted at $\pm$ one 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.

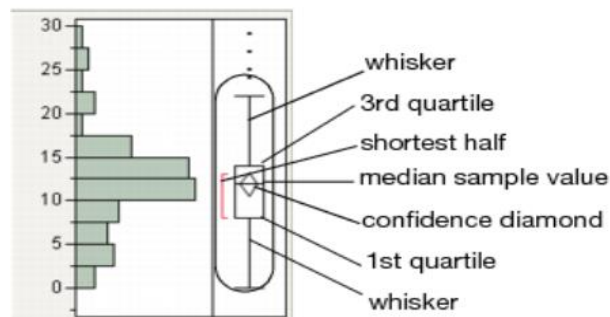


Outlier Box Plot

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)

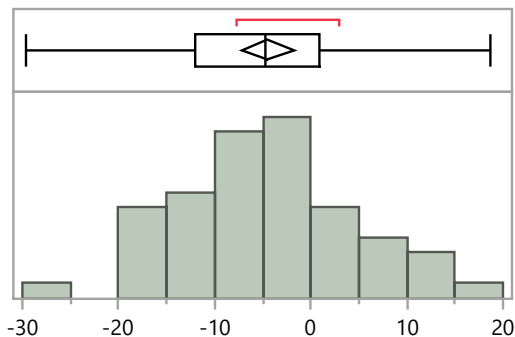


If the data points do not reach the computed ranges, then the whiskers are determined by the upper and lower data point values (not including outliers). The bracket outside of the box identifies the *shortest half*, which is the most dense 50% of the observations (Rousseuw and Leroy 1987).

MaS54 Distribution by Detection Method

Distributions Analyte_Detection=Cesium-134 Gamma Spectrometry

Bias



Quantiles

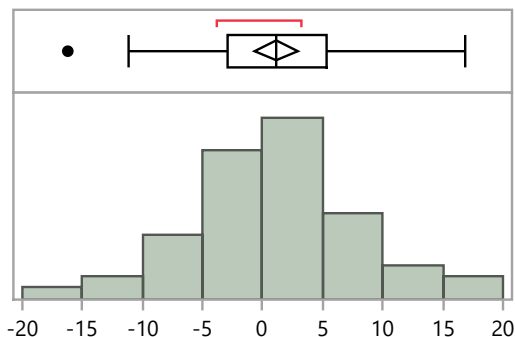
100.0%	maximum	18.7
99.5%		18.7
97.5%		17.0
90.0%		8.3
75.0%	quartile	0.9
50.0%	median	-4.8
25.0%	quartile	-12.0
10.0%		-17.1
2.5%		-26.4
0.5%		-29.5
0.0%	minimum	-29.5

Summary Statistics

Mean	-4.5
Std Dev	9.5
Std Err Mean	1.3
Upper 95% Mean	-1.8
Lower 95% Mean	-7.2
N	51.0

Distributions Analyte_Detection=Cesium-137 Gamma Spectrometry

Bias



Quantiles

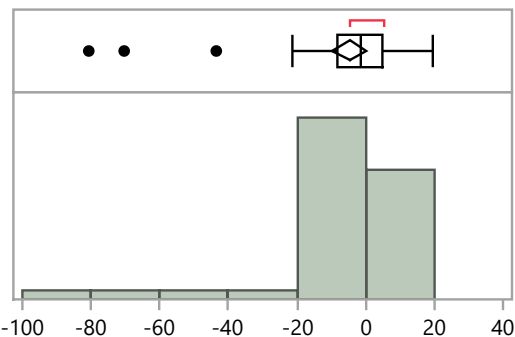
100.0%	maximum	16.8
99.5%		16.8
97.5%		16.3
90.0%		9.8
75.0%	quartile	5.3
50.0%	median	1.1
25.0%	quartile	-3.0
10.0%		-6.0
2.5%		-14.4
0.5%		-16.2
0.0%	minimum	-16.2

Summary Statistics

Mean	1.1
Std Dev	6.5
Std Err Mean	0.9
Upper 95% Mean	2.9
Lower 95% Mean	-0.7
N	53.0

Distributions Analyte_Detection=Cobalt-57 Gamma Spectrometry

Bias



Quantiles

100.0%	maximum	19.7
99.5%		19.7
97.5%		19.2
90.0%		9.8
75.0%	quartile	4.9
50.0%	median	-1.5
25.0%	quartile	-8.2
10.0%		-17.9
2.5%		-77.3
0.5%		-80.6
0.0%	minimum	-80.6

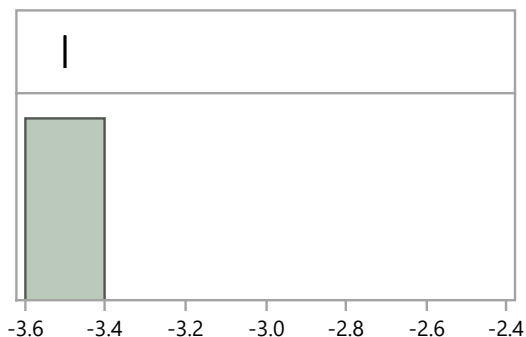
Summary Statistics

Mean	-4.7
Std Dev	17.8
Std Err Mean	2.5
Upper 95% Mean	0.3
Lower 95% Mean	-9.6
N	52.0

MaS54 Distribution by Detection Method

Distributions Analyte_Detection=Iron-55 Gamma Spectrometry

Bias



Quantiles

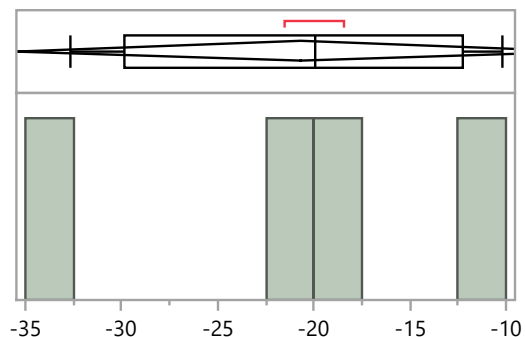
100.0%	maximum	-3.5
99.5%		-3.5
97.5%		-3.5
90.0%		-3.5
75.0%	quartile	-3.5
50.0%	median	-3.5
25.0%	quartile	-3.5
10.0%		-3.5
2.5%		-3.5
0.5%		-3.5
0.0%	minimum	-3.5

Summary Statistics

Mean	-3.5
Std Dev	.
Std Err Mean	.
Upper 95% Mean	.
Lower 95% Mean	.
N	1.0

Distributions Analyte_Detection=Iron-55 Liquid Scintillation Counter

Bias



Quantiles

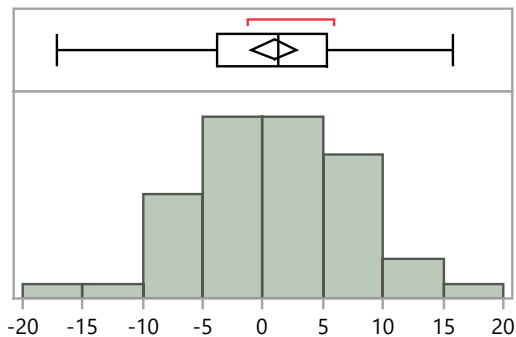
100.0%	maximum	-10.2
99.5%		-10.2
97.5%		-10.2
90.0%		-10.2
75.0%	quartile	-12.3
50.0%	median	-20.0
25.0%	quartile	-29.8
10.0%		-32.6
2.5%		-32.6
0.5%		-32.6
0.0%	minimum	-32.6

Summary Statistics

Mean	-20.7
Std Dev	9.3
Std Err Mean	4.6
Upper 95% Mean	-5.9
Lower 95% Mean	-35.4
N	4.0

Distributions Analyte_Detection=Manganese-54 Gamma Spectrometry

Bias

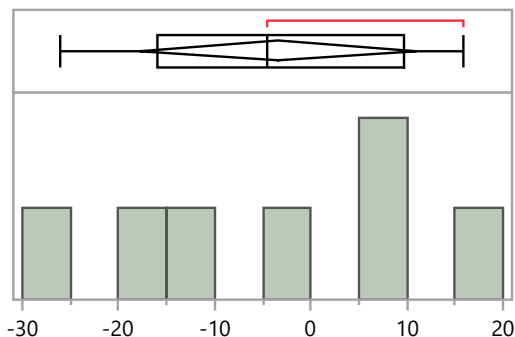


Quantiles

100.0%	maximum	15.8
99.5%		15.8
97.5%		15.4
90.0%		9.3
75.0%	quartile	5.4
50.0%	median	1.2
25.0%	quartile	-3.8
10.0%		-8.4
2.5%		-15.6
0.5%		-17.1
0.0%	minimum	-17.1

Summary Statistics

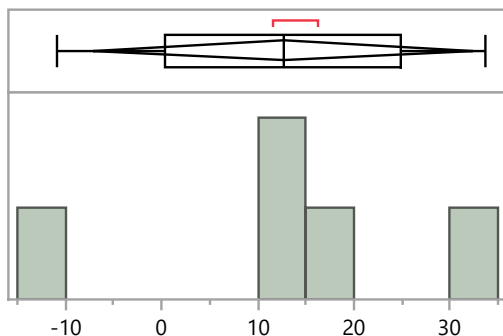
Mean	0.9
Std Dev	6.9
Std Err Mean	1.0
Upper 95% Mean	2.8
Lower 95% Mean	-1.0
N	53.0

MaS54 Distribution by Detection Method**Distributions Analyte_Detection=Neptunium-237 Alpha Spectrometry****Bias****Quantiles**

100.0%	maximum	15.9
99.5%		15.9
97.5%		15.9
90.0%		15.9
75.0%	quartile	9.6
50.0%	median	-4.5
25.0%	quartile	-15.9
10.0%		-26.1
2.5%		-26.1
0.5%		-26.1
0.0%	minimum	-26.1

Summary Statistics

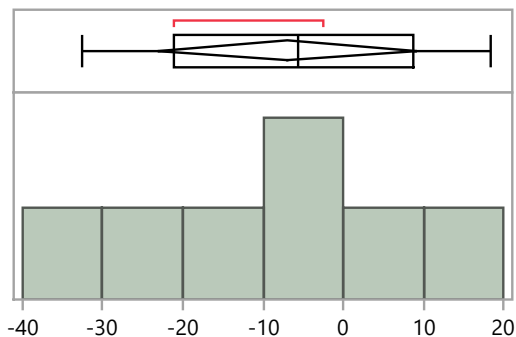
Mean	-3.4
Std Dev	15.5
Std Err Mean	5.9
Upper 95% Mean	11.0
Lower 95% Mean	-17.8
N	7.0

Distributions Analyte_Detection=Neptunium-237 Gamma Spectrometry**Bias****Quantiles**

100.0%	maximum	33.6
99.5%		33.6
97.5%		33.6
90.0%		33.6
75.0%	quartile	24.9
50.0%	median	12.7
25.0%	quartile	0.3
10.0%		-10.8
2.5%		-10.8
0.5%		-10.8
0.0%	minimum	-10.8

Summary Statistics

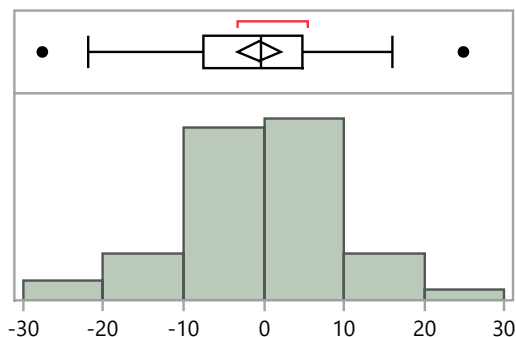
Mean	12.6
Std Dev	15.8
Std Err Mean	7.1
Upper 95% Mean	32.3
Lower 95% Mean	-7.0
N	5.0

Distributions Analyte_Detection=Nickel-63 Liquid Scintillation Counter**Bias****Quantiles**

100.0%	maximum	18.4
99.5%		18.4
97.5%		18.4
90.0%		18.4
75.0%	quartile	8.7
50.0%	median	-5.7
25.0%	quartile	-21.1
10.0%		-32.6
2.5%		-32.6
0.5%		-32.6
0.0%	minimum	-32.6

Summary Statistics

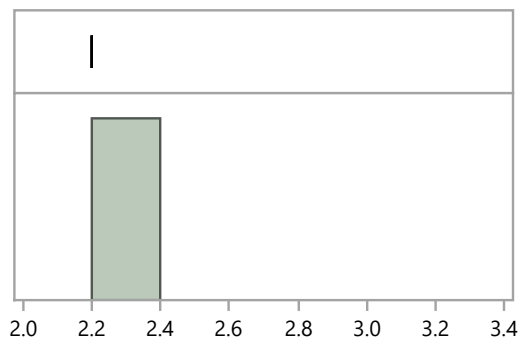
Mean	-7.0
Std Dev	17.4
Std Err Mean	6.6
Upper 95% Mean	9.1
Lower 95% Mean	-23.2
N	7.0

MaS54 Distribution by Detection Method**Distributions Analyte_Detection=Potassium-40 Gamma Spectrometry****Bias****Quantiles**

100.0%	maximum	24.9
99.5%		24.9
97.5%		22.0
90.0%		12.1
75.0%	quartile	4.8
50.0%	median	-0.3
25.0%	quartile	-7.5
10.0%		-12.8
2.5%		-25.7
0.5%		-27.6
0.0%	minimum	-27.6

Summary Statistics

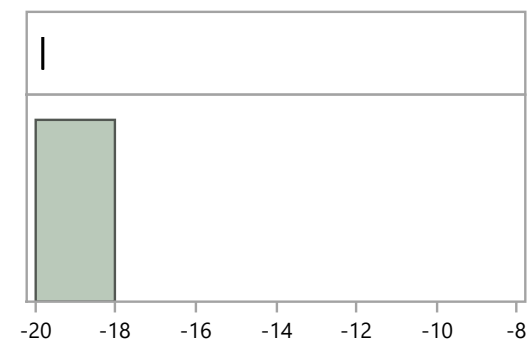
Mean	-0.6
Std Dev	9.6
Std Err Mean	1.3
Upper 95% Mean	2.0
Lower 95% Mean	-3.3
N	52.0

Distributions Analyte_Detection=Strontium-90 Alpha Spectrometry**Bias****Quantiles**

100.0%	maximum	2.2
99.5%		2.2
97.5%		2.2
90.0%		2.2
75.0%	quartile	2.2
50.0%	median	2.2
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	2.2
Std Dev	.
Std Err Mean	.
Upper 95% Mean	.
Lower 95% Mean	.
N	1.0

Distributions Analyte_Detection=Strontium-90 Gamma Spectrometry**Bias****Quantiles**

100.0%	maximum	-19.8
99.5%		-19.8
97.5%		-19.8
90.0%		-19.8
75.0%	quartile	-19.8
50.0%	median	-19.8
25.0%	quartile	-19.8
10.0%		-19.8
2.5%		-19.8
0.5%		-19.8
0.0%	minimum	-19.8

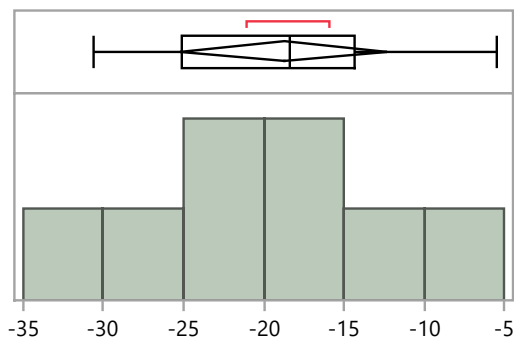
Summary Statistics

Mean	-19.8
Std Dev	.
Std Err Mean	.
Upper 95% Mean	.
Lower 95% Mean	.
N	1.0

MaS54 Distribution by Detection Method

Distributions Analyte_Detection=Strontium-90 Gas Flow Proportional Counter

Bias



Quantiles

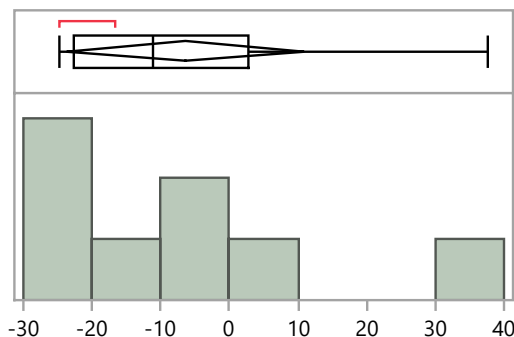
100.0%	maximum	-5.5
99.5%		-5.5
97.5%		-5.5
90.0%		-5.5
75.0%	quartile	-14.3
50.0%	median	-18.4
25.0%	quartile	-25.1
10.0%		-30.6
2.5%		-30.6
0.5%		-30.6
0.0%	minimum	-30.6

Summary Statistics

Mean	-18.8
Std Dev	7.7
Std Err Mean	2.7
Upper 95% Mean	-12.3
Lower 95% Mean	-25.2
N	8.0

Distributions Analyte_Detection=Strontium-90 Gross Alpha/Beta - 2 pi gas flow proportional counter

Bias



Quantiles

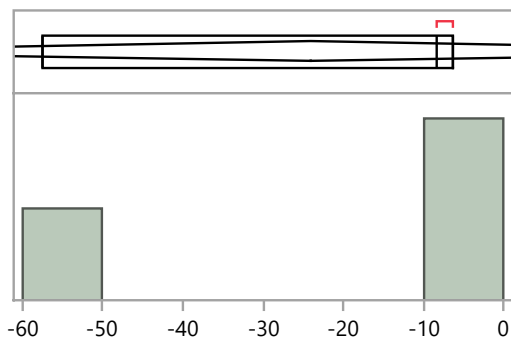
100.0%	maximum	37.5
99.5%		37.5
97.5%		37.5
90.0%		37.5
75.0%	quartile	2.7
50.0%	median	-11.1
25.0%	quartile	-22.6
10.0%		-24.8
2.5%		-24.8
0.5%		-24.8
0.0%	minimum	-24.8

Summary Statistics

Mean	-6.3
Std Dev	20.7
Std Err Mean	7.3
Upper 95% Mean	11.0
Lower 95% Mean	-23.6
N	8.0

Distributions Analyte_Detection=Strontium-90 Liquid Scintillation Counter

Bias

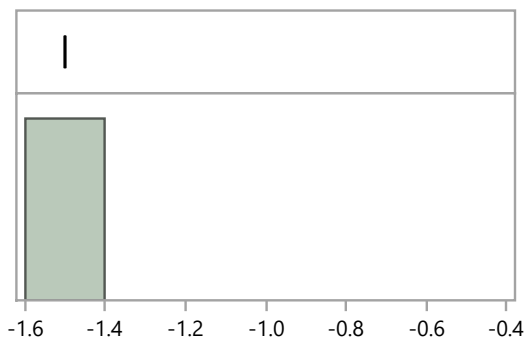


Quantiles

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	-8.4
25.0%	quartile	-57.6
10.0%		-57.6
2.5%		-57.6
0.5%		-57.6
0.0%	minimum	-57.6

Summary Statistics

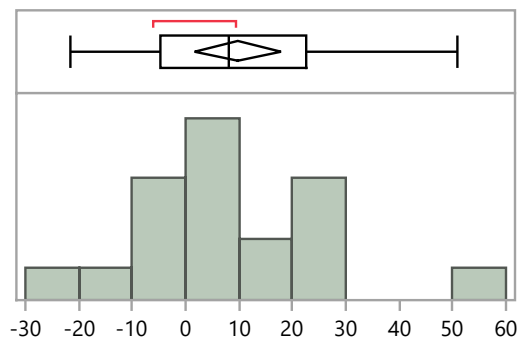
Mean	-24.1
Std Dev	29.0
Std Err Mean	16.7
Upper 95% Mean	47.9
Lower 95% Mean	-96.2
N	3.0

MaS54 Distribution by Detection Method**Distributions Analyte_Detection=Strontium-90 Other****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	-1.5
25.0%	quartile	-1.5
10.0%		-1.5
2.5%		-1.5
0.5%		-1.5
0.0%	minimum	-1.5

Summary Statistics

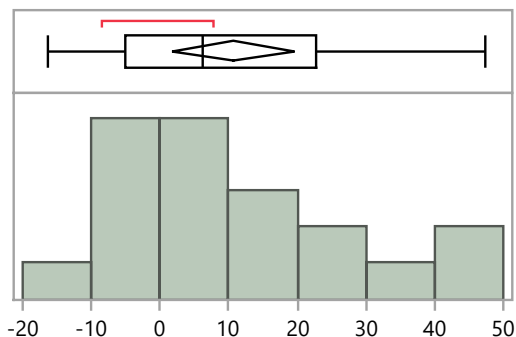
Mean	-1.5
Std Dev	.
Std Err Mean	.
Upper 95% Mean	.
Lower 95% Mean	.
N	1.0

Distributions Analyte_Detection=Thorium-228 Alpha Spectrometry**Bias****Quantiles**

100.0%	maximum	50.7
99.5%		50.7
97.5%		50.7
90.0%		26.7
75.0%	quartile	22.6
50.0%	median	8.1
25.0%	quartile	-4.7
10.0%		-12.3
2.5%		-21.5
0.5%		-21.5
0.0%	minimum	-21.5

Summary Statistics

Mean	9.7
Std Dev	16.8
Std Err Mean	3.8
Upper 95% Mean	17.7
Lower 95% Mean	1.6
N	19.0

Distributions Analyte_Detection=Thorium-230 Alpha Spectrometry**Bias****Quantiles**

100.0%	maximum	47.4
99.5%		47.4
97.5%		47.4
90.0%		46.7
75.0%	quartile	22.8
50.0%	median	6.2
25.0%	quartile	-5.0
10.0%		-8.5
2.5%		-16.4
0.5%		-16.4
0.0%	minimum	-16.4

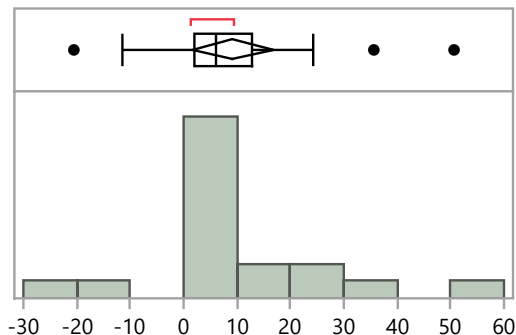
Summary Statistics

Mean	10.6
Std Dev	18.5
Std Err Mean	4.2
Upper 95% Mean	19.5
Lower 95% Mean	1.6
N	19.0

MaS54 Distribution by Detection Method

Distributions Analyte_Detection=Thorium-232 Alpha Spectrometry

Bias



Quantiles

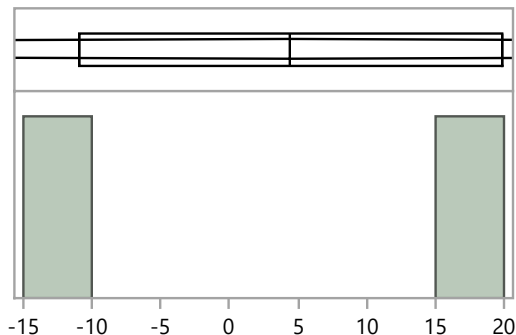
100.0%	maximum	50.6
99.5%		50.6
97.5%		50.6
90.0%		35.6
75.0%	quartile	12.9
50.0%	median	6.0
25.0%	quartile	2.0
10.0%		-11.3
2.5%		-20.5
0.5%		-20.5
0.0%	minimum	-20.5

Summary Statistics

Mean	9.2
Std Dev	15.8
Std Err Mean	3.6
Upper 95% Mean	16.8
Lower 95% Mean	1.6
N	19.0

Distributions Analyte_Detection=Thorium-232 Gamma Spectrometry

Bias



Quantiles

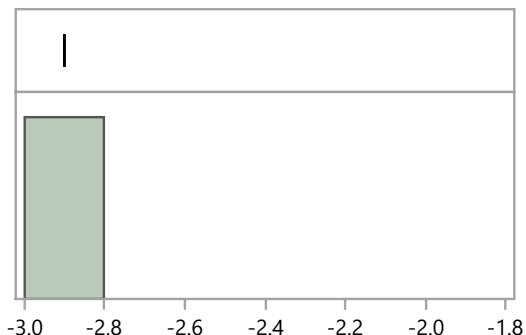
100.0%	maximum	19.8
99.5%		19.8
97.5%		19.8
90.0%		19.8
75.0%	quartile	19.8
50.0%	median	4.5
25.0%	quartile	-10.9
10.0%		-10.9
2.5%		-10.9
0.5%		-10.9
0.0%	minimum	-10.9

Summary Statistics

Mean	4.5
Std Dev	21.7
Std Err Mean	15.4
Upper 95% Mean	199.5
Lower 95% Mean	-190.6
N	2.0

Distributions Analyte_Detection=Thorium-232 Other

Bias

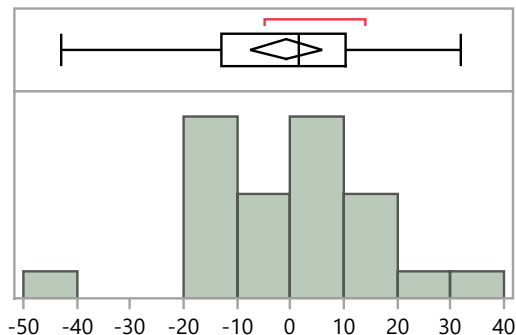


Quantiles

100.0%	maximum	-2.9
99.5%		-2.9
97.5%		-2.9
90.0%		-2.9
75.0%	quartile	-2.9
50.0%	median	-2.9
25.0%	quartile	-2.9
10.0%		-2.9
2.5%		-2.9
0.5%		-2.9
0.0%	minimum	-2.9

Summary Statistics

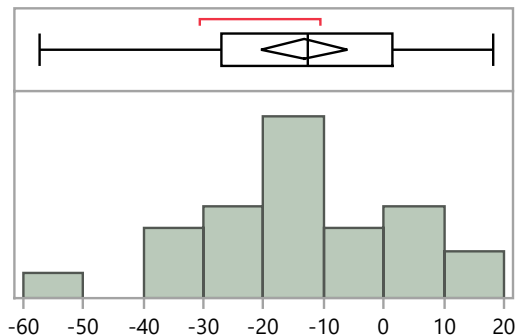
Mean	-2.9
Std Dev	.
Std Err Mean	.
Upper 95% Mean	.
Lower 95% Mean	.
N	1.0

MaS54 Distribution by Detection Method**Distributions Analyte_Detection=Uranium-234 Alpha Spectrometry****Bias****Quantiles**

100.0%	maximum	31.7
99.5%		31.7
97.5%		31.7
90.0%		20.6
75.0%	quartile	10.2
50.0%	median	1.7
25.0%	quartile	-12.8
10.0%		-19.5
2.5%		-42.9
0.5%		-42.9
0.0%	minimum	-42.9

Summary Statistics

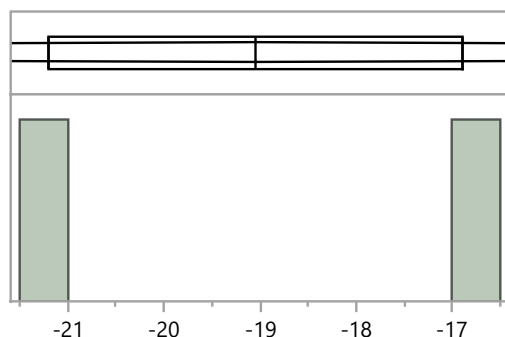
Mean	-0.7
Std Dev	16.2
Std Err Mean	3.2
Upper 95% Mean	6.0
Lower 95% Mean	-7.4
N	25.0

Distributions Analyte_Detection=Uranium-238 Alpha Spectrometry**Bias****Quantiles**

100.0%	maximum	18.2
99.5%		18.2
97.5%		18.2
90.0%		10.2
75.0%	quartile	1.4
50.0%	median	-12.7
25.0%	quartile	-27.0
10.0%		-32.3
2.5%		-57.4
0.5%		-57.4
0.0%	minimum	-57.4

Summary Statistics

Mean	-13.3
Std Dev	17.4
Std Err Mean	3.5
Upper 95% Mean	-6.1
Lower 95% Mean	-20.5
N	25.0

Distributions Analyte_Detection=Uranium-238 Gamma Spectrometry**Bias****Quantiles**

100.0%	maximum	-16.9
99.5%		-16.9
97.5%		-16.9
90.0%		-16.9
75.0%	quartile	-16.9
50.0%	median	-19.1
25.0%	quartile	-21.2
10.0%		-21.2
2.5%		-21.2
0.5%		-21.2
0.0%	minimum	-21.2

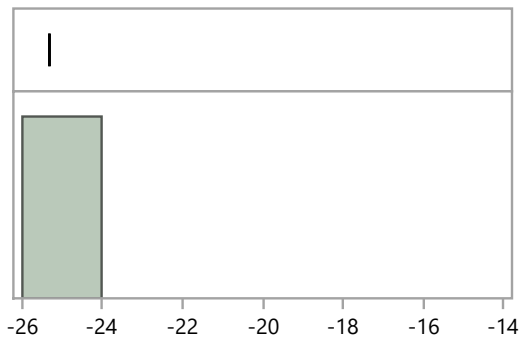
Summary Statistics

Mean	-19.1
Std Dev	3.0
Std Err Mean	2.2
Upper 95% Mean	8.3
Lower 95% Mean	-46.4
N	2.0

MaS54 Distribution by Detection Method

Distributions Analyte_Detection=Uranium-238 Inductively Coupled Plasma Mass Spectrometry

Bias

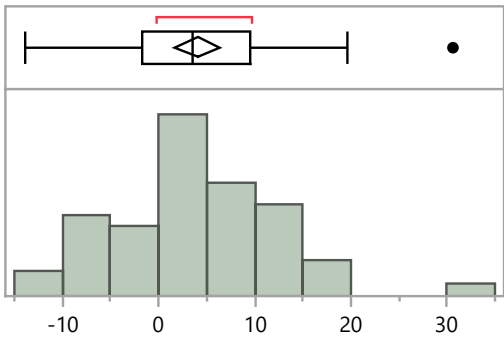


Quantiles		
100.0%	maximum	-25.3
99.5%		-25.3
97.5%		-25.3
90.0%		-25.3
75.0%	quartile	-25.3
50.0%	median	-25.3
25.0%	quartile	-25.3
10.0%		-25.3
2.5%		-25.3
0.5%		-25.3
0.0%	minimum	-25.3

Summary Statistics	
Mean	-25.3
Std Dev	.
Std Err Mean	.
Upper 95% Mean	.
Lower 95% Mean	.
N	1.0

Distributions Analyte_Detection=Zinc-65 Gamma Spectrometry

Bias



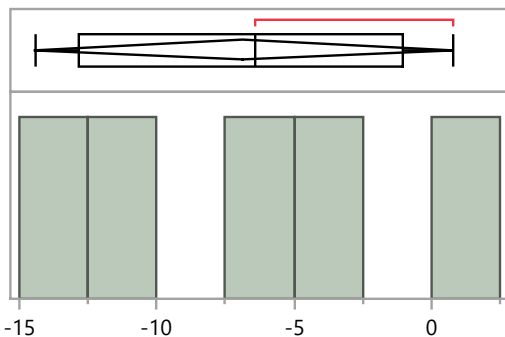
Quantiles		
100.0%	maximum	30.6
99.5%		30.6
97.5%		26.7
90.0%		14.0
75.0%	quartile	9.6
50.0%	median	3.5
25.0%	quartile	-1.7
10.0%		-6.7
2.5%		-13.7
0.5%		-13.8
0.0%	minimum	-13.8

Summary Statistics	
Mean	4.0
Std Dev	8.5
Std Err Mean	1.2
Upper 95% Mean	6.4
Lower 95% Mean	1.7
N	53.0

MaS54 Distribution by Preparation Method

Distributions Analyte_Method=Cesium-134 EPA 901.1, Gamma Emitting, 600/4-80-032

Bias



Quantiles

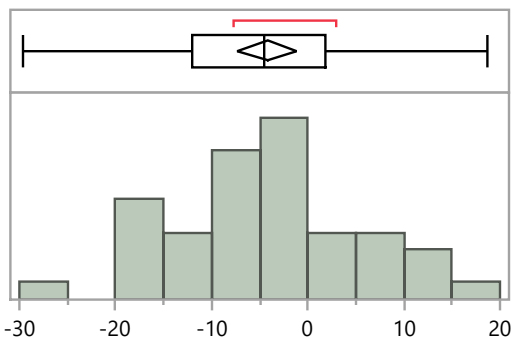
100.0%	maximum	0.8
99.5%		0.8
97.5%		0.8
90.0%		0.8
75.0%	quartile	-1.1
50.0%	median	-6.4
25.0%	quartile	-12.9
10.0%		-14.4
2.5%		-14.4
0.5%		-14.4
0.0%	minimum	-14.4

Summary Statistics

Mean	-6.8
Std Dev	6.1
Std Err Mean	2.7
Upper 95% Mean	0.8
Lower 95% Mean	-14.5
N	5.0

Distributions Analyte_Method=Cesium-134 No preparation - analyzed as received

Bias



Quantiles

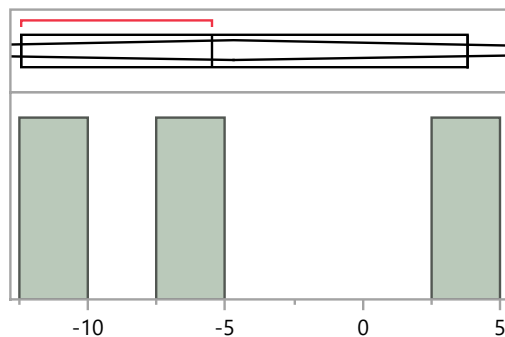
100.0%	maximum	18.7
99.5%		18.7
97.5%		18.1
90.0%		11.1
75.0%	quartile	1.8
50.0%	median	-4.6
25.0%	quartile	-12.0
10.0%		-17.3
2.5%		-28.5
0.5%		-29.5
0.0%	minimum	-29.5

Summary Statistics

Mean	-4.2
Std Dev	10.0
Std Err Mean	1.5
Upper 95% Mean	-1.1
Lower 95% Mean	-7.3
N	43.0

Distributions Analyte_Method=Cesium-134 Other

Bias



Quantiles

100.0%	maximum	3.8
99.5%		3.8
97.5%		3.8
90.0%		3.8
75.0%	quartile	3.8
50.0%	median	-5.5
25.0%	quartile	-12.4
10.0%		-12.4
2.5%		-12.4
0.5%		-12.4
0.0%	minimum	-12.4

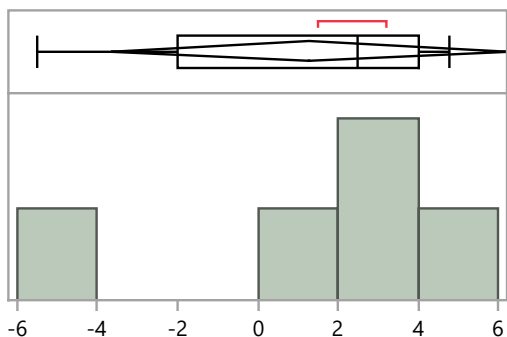
Summary Statistics

Mean	-4.7
Std Dev	8.1
Std Err Mean	4.7
Upper 95% Mean	15.5
Lower 95% Mean	-24.9
N	3.0

MaS54 Distribution by Preparation Method

Distributions Analyte_Method=Cesium-137 EPA 901.1, Gamma Emitting, 600/4-80-032

Bias



Quantiles

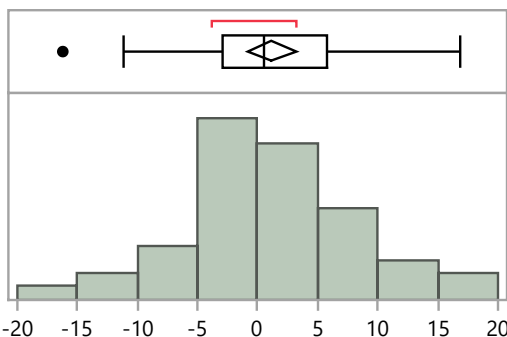
100.0%	maximum	4.8
99.5%		4.8
97.5%		4.8
90.0%		4.8
75.0%	quartile	4.0
50.0%	median	2.5
25.0%	quartile	-2.0
10.0%		-5.5
2.5%		-5.5
0.5%		-5.5
0.0%	minimum	-5.5

Summary Statistics

Mean	1.3
Std Dev	4.0
Std Err Mean	1.8
Upper 95% Mean	6.3
Lower 95% Mean	-3.7
N	5.0

Distributions Analyte_Method=Cesium-137 No preparation - analyzed as received

Bias



Quantiles

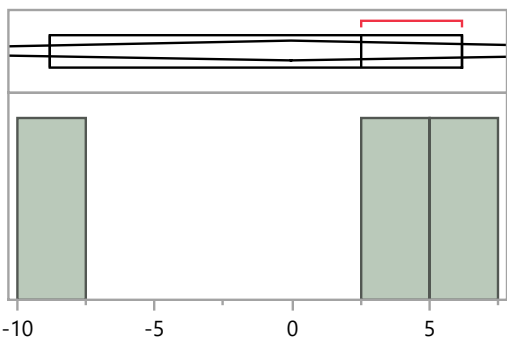
100.0%	maximum	16.8
99.5%		16.8
97.5%		16.6
90.0%		10.2
75.0%	quartile	5.8
50.0%	median	0.5
25.0%	quartile	-3.0
10.0%		-5.8
2.5%		-15.4
0.5%		-16.2
0.0%	minimum	-16.2

Summary Statistics

Mean	1.2
Std Dev	6.7
Std Err Mean	1.0
Upper 95% Mean	3.2
Lower 95% Mean	-0.9
N	45.0

Distributions Analyte_Method=Cesium-137 Other

Bias



Quantiles

100.0%	maximum	6.2
99.5%		6.2
97.5%		6.2
90.0%		6.2
75.0%	quartile	6.2
50.0%	median	2.5
25.0%	quartile	-8.8
10.0%		-8.8
2.5%		-8.8
0.5%		-8.8
0.0%	minimum	-8.8

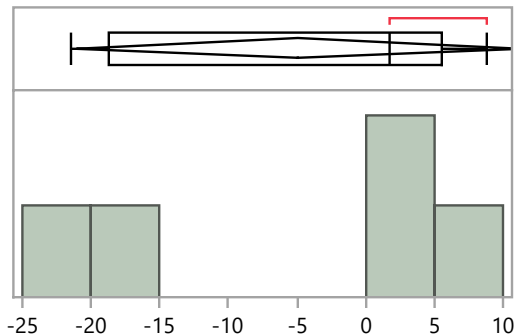
Summary Statistics

Mean	-0.0
Std Dev	7.8
Std Err Mean	4.5
Upper 95% Mean	19.4
Lower 95% Mean	-19.4
N	3.0

MaS54 Distribution by Preparation Method

Distributions Analyte_Method=Cobalt-57 EPA 901.1, Gamma Emitting, 600/4-80-032

Bias



Quantiles

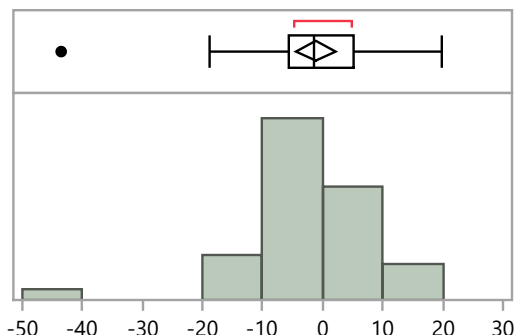
100.0%	maximum	8.8
99.5%		8.8
97.5%		8.8
90.0%		8.8
75.0%	quartile	5.6
50.0%	median	1.7
25.0%	quartile	-18.7
10.0%		-21.5
2.5%		-21.5
0.5%		-21.5
0.0%	minimum	-21.5

Summary Statistics

Mean	-4.9
Std Dev	13.0
Std Err Mean	5.8
Upper 95% Mean	11.3
Lower 95% Mean	-21.1
N	5.0

Distributions Analyte_Method=Cobalt-57 No preparation - analyzed as received

Bias



Quantiles

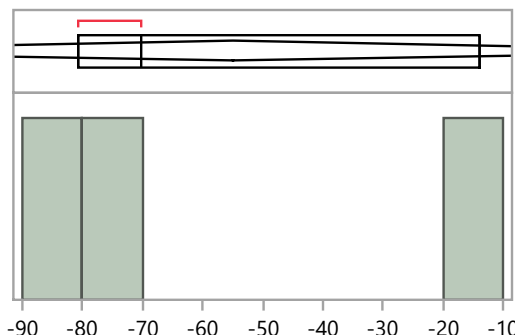
100.0%	maximum	19.7
99.5%		19.7
97.5%		19.5
90.0%		10.4
75.0%	quartile	5.0
50.0%	median	-1.4
25.0%	quartile	-5.6
10.0%		-13.1
2.5%		-40.4
0.5%		-43.5
0.0%	minimum	-43.5

Summary Statistics

Mean	-1.2
Std Dev	10.6
Std Err Mean	1.6
Upper 95% Mean	2.0
Lower 95% Mean	-4.4
N	44.0

Distributions Analyte_Method=Cobalt-57 Other

Bias



Quantiles

100.0%	maximum	-13.8
99.5%		-13.8
97.5%		-13.8
90.0%		-13.8
75.0%	quartile	-13.8
50.0%	median	-70.3
25.0%	quartile	-80.6
10.0%		-80.6
2.5%		-80.6
0.5%		-80.6
0.0%	minimum	-80.6

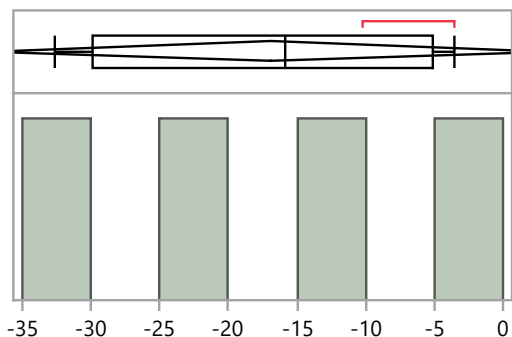
Summary Statistics

Mean	-54.9
Std Dev	36.0
Std Err Mean	20.8
Upper 95% Mean	34.4
Lower 95% Mean	-144.2
N	3.0

MaS54 Distribution by Preparation Method

Distributions Analyte_Method=Iron-55 Acid dissolution with hydrofluoric acid

Bias



Quantiles

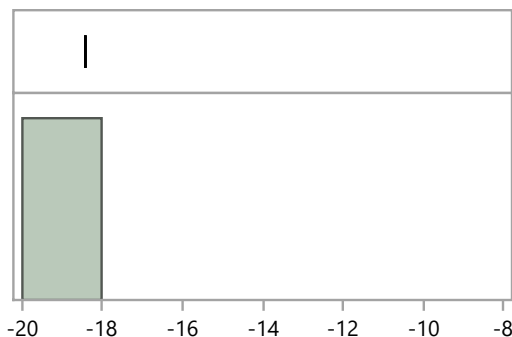
100.0%	maximum	-3.5
99.5%		-3.5
97.5%		-3.5
90.0%		-3.5
75.0%	quartile	-5.2
50.0%	median	-15.9
25.0%	quartile	-29.8
10.0%		-32.6
2.5%		-32.6
0.5%		-32.6
0.0%	minimum	-32.6

Summary Statistics

Mean	-17.0
Std Dev	12.8
Std Err Mean	6.4
Upper 95% Mean	3.4
Lower 95% Mean	-37.3
N	4.0

Distributions Analyte_Method=Iron-55 Total dissolution by fusion

Bias



Quantiles

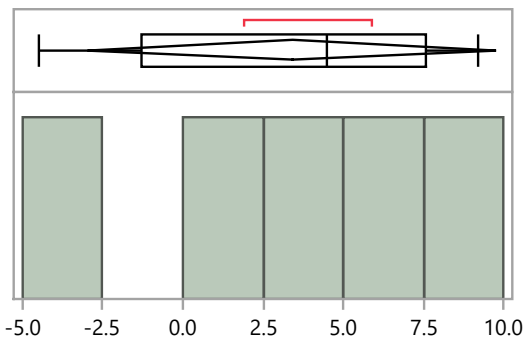
100.0%	maximum	-18.4
99.5%		-18.4
97.5%		-18.4
90.0%		-18.4
75.0%	quartile	-18.4
50.0%	median	-18.4
25.0%	quartile	-18.4
10.0%		-18.4
2.5%		-18.4
0.5%		-18.4
0.0%	minimum	-18.4

Summary Statistics

Mean	-18.4
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

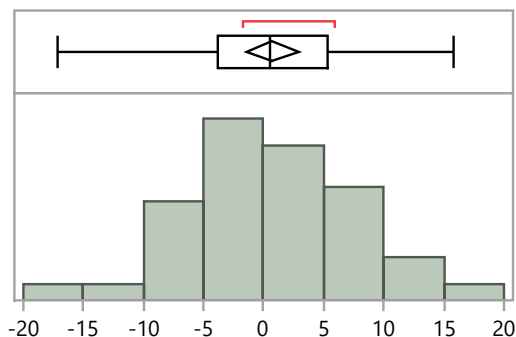


Quantiles

100.0%	maximum	9.2
99.5%		9.2
97.5%		9.2
90.0%		9.2
75.0%	quartile	7.6
50.0%	median	4.5
25.0%	quartile	-1.3
10.0%		-4.5
2.5%		-4.5
0.5%		-4.5
0.0%	minimum	-4.5

Summary Statistics

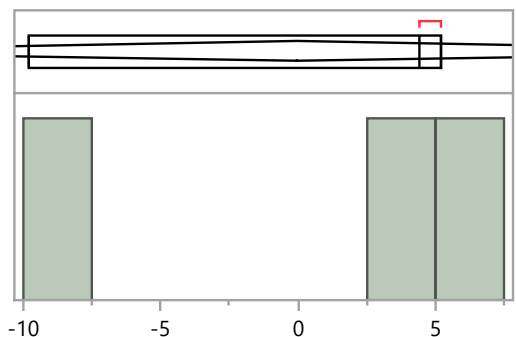
Mean	3.4
Std Dev	5.1
Std Err Mean	2.3
Upper 95% Mean	9.8
Lower 95% Mean	-3.0
N	5.0

MaS54 Distribution by Preparation Method**Distributions Analyte_Method=Manganese-54 No preparation - analyzed as received****Bias****Quantiles**

100.0%	maximum	15.8
99.5%		15.8
97.5%		15.6
90.0%		10.2
75.0%	quartile	5.4
50.0%	median	0.5
25.0%	quartile	-3.8
10.0%		-8.2
2.5%		-16.5
0.5%		-17.1
0.0%	minimum	-17.1

Summary Statistics

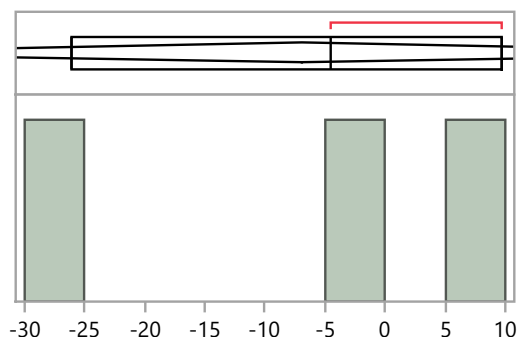
Mean	0.7
Std Dev	7.1
Std Err Mean	1.1
Upper 95% Mean	2.9
Lower 95% Mean	-1.4
N	45.0

Distributions Analyte_Method=Manganese-54 Other**Bias****Quantiles**

100.0%	maximum	5.2
99.5%		5.2
97.5%		5.2
90.0%		5.2
75.0%	quartile	5.2
50.0%	median	4.4
25.0%	quartile	-9.8
10.0%		-9.8
2.5%		-9.8
0.5%		-9.8
0.0%	minimum	-9.8

Summary Statistics

Mean	-0.1
Std Dev	8.4
Std Err Mean	4.9
Upper 95% Mean	20.9
Lower 95% Mean	-21.0
N	3.0

Distributions Analyte_Method=Neptunium-237 Acid dissolution with hydrofluoric acid**Bias****Quantiles**

100.0%	maximum	9.6
99.5%		9.6
97.5%		9.6
90.0%		9.6
75.0%	quartile	9.6
50.0%	median	-4.5
25.0%	quartile	-26.1
10.0%		-26.1
2.5%		-26.1
0.5%		-26.1
0.0%	minimum	-26.1

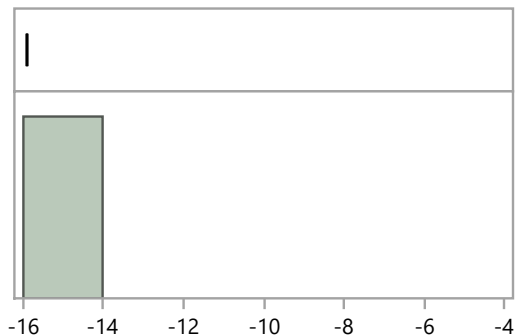
Summary Statistics

Mean	-7.0
Std Dev	18.0
Std Err Mean	10.4
Upper 95% Mean	37.7
Lower 95% Mean	-51.7
N	3.0

MaS54 Distribution by Preparation Method

Distributions Analyte_Method=Neptunium-237 Acid leaching without hydrofluoric acid

Bias



Quantiles

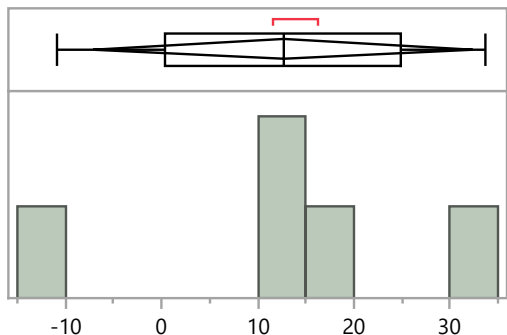
100.0%	maximum	-15.9
99.5%		-15.9
97.5%		-15.9
90.0%		-15.9
75.0%	quartile	-15.9
50.0%	median	-15.9
25.0%	quartile	-15.9
10.0%		-15.9
2.5%		-15.9
0.5%		-15.9
0.0%	minimum	-15.9

Summary Statistics

Mean	-15.9
Std Dev	.
Std Err Mean	.
Upper 95% Mean	.
Lower 95% Mean	.
N	1.0

Distributions Analyte_Method=Neptunium-237 No preparation - analyzed as received

Bias



Quantiles

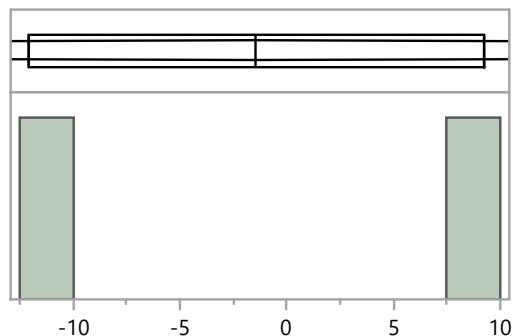
100.0%	maximum	33.6
99.5%		33.6
97.5%		33.6
90.0%		33.6
75.0%	quartile	24.9
50.0%	median	12.7
25.0%	quartile	0.3
10.0%		-10.8
2.5%		-10.8
0.5%		-10.8
0.0%	minimum	-10.8

Summary Statistics

Mean	12.6
Std Dev	15.8
Std Err Mean	7.1
Upper 95% Mean	32.3
Lower 95% Mean	-7.0
N	5.0

Distributions Analyte_Method=Neptunium-237 Other

Bias



Quantiles

100.0%	maximum	9.2
99.5%		9.2
97.5%		9.2
90.0%		9.2
75.0%	quartile	9.2
50.0%	median	-1.5
25.0%	quartile	-12.1
10.0%		-12.1
2.5%		-12.1
0.5%		-12.1
0.0%	minimum	-12.1

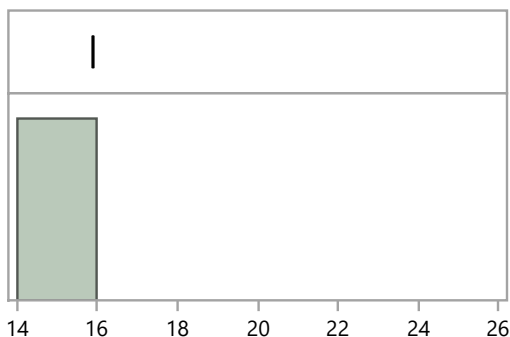
Summary Statistics

Mean	-1.5
Std Dev	15.1
Std Err Mean	10.7
Upper 95% Mean	133.9
Lower 95% Mean	-136.8
N	2.0

MaS54 Distribution by Preparation Method

Distributions Analyte_Method=Neptunium-237 Total dissolution by fusion

Bias



Quantiles

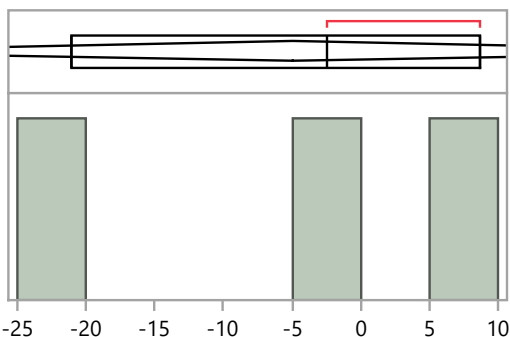
100.0%	maximum	15.9
99.5%		15.9
97.5%		15.9
90.0%		15.9
75.0%	quartile	15.9
50.0%	median	15.9
25.0%	quartile	15.9
10.0%		15.9
2.5%		15.9
0.5%		15.9
0.0%	minimum	15.9

Summary Statistics

Mean	15.9
Std Dev	.
Std Err Mean	.
Upper 95% Mean	.
Lower 95% Mean	.
N	1.0

Distributions Analyte_Method=Nickel-63 Acid dissolution with hydrofluoric acid

Bias



Quantiles

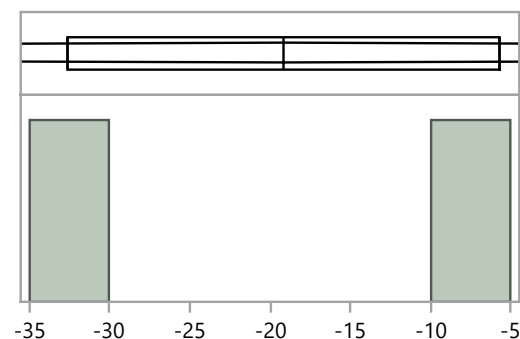
100.0%	maximum	8.7
99.5%		8.7
97.5%		8.7
90.0%		8.7
75.0%	quartile	8.7
50.0%	median	-2.4
25.0%	quartile	-21.1
10.0%		-21.1
2.5%		-21.1
0.5%		-21.1
0.0%	minimum	-21.1

Summary Statistics

Mean	-4.9
Std Dev	15.1
Std Err Mean	8.7
Upper 95% Mean	32.5
Lower 95% Mean	-42.3
N	3.0

Distributions Analyte_Method=Nickel-63 Acid leaching without hydrofluoric acid

Bias



Quantiles

100.0%	maximum	-5.7
99.5%		-5.7
97.5%		-5.7
90.0%		-5.7
75.0%	quartile	-5.7
50.0%	median	-19.2
25.0%	quartile	-32.6
10.0%		-32.6
2.5%		-32.6
0.5%		-32.6
0.0%	minimum	-32.6

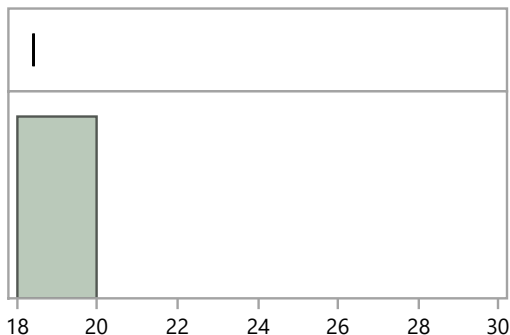
Summary Statistics

Mean	-19.2
Std Dev	19.0
Std Err Mean	13.5
Upper 95% Mean	151.7
Lower 95% Mean	-190.0
N	2.0

MaS54 Distribution by Preparation Method

Distributions Analyte_Method=Nickel-63 Other

Bias



Quantiles

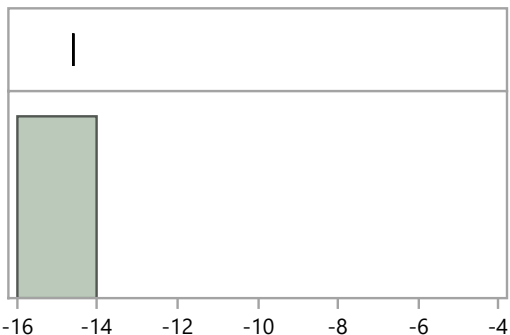
100.0%	maximum	18.4
99.5%		18.4
97.5%		18.4
90.0%		18.4
75.0%	quartile	18.4
50.0%	median	18.4
25.0%	quartile	18.4
10.0%		18.4
2.5%		18.4
0.5%		18.4
0.0%	minimum	18.4

Summary Statistics

Mean	18.4
Std Dev	.
Std Err Mean	.
Upper 95% Mean	.
Lower 95% Mean	.
N	1.0

Distributions Analyte_Method=Nickel-63 Total dissolution by fusion

Bias



Quantiles

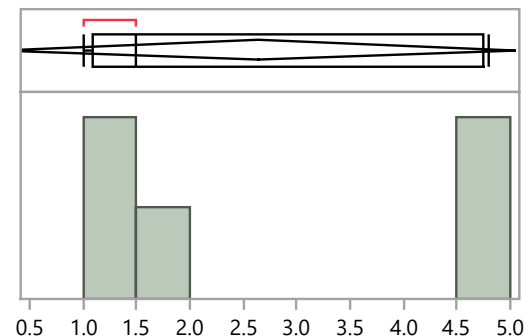
100.0%	maximum	-14.6
99.5%		-14.6
97.5%		-14.6
90.0%		-14.6
75.0%	quartile	-14.6
50.0%	median	-14.6
25.0%	quartile	-14.6
10.0%		-14.6
2.5%		-14.6
0.5%		-14.6
0.0%	minimum	-14.6

Summary Statistics

Mean	-14.6
Std Dev	.
Std Err Mean	.
Upper 95% Mean	.
Lower 95% Mean	.
N	1.0

Distributions Analyte_Method=Potassium-40 EPA 901.1, Gamma Emitting, 600/4-80-032

Bias

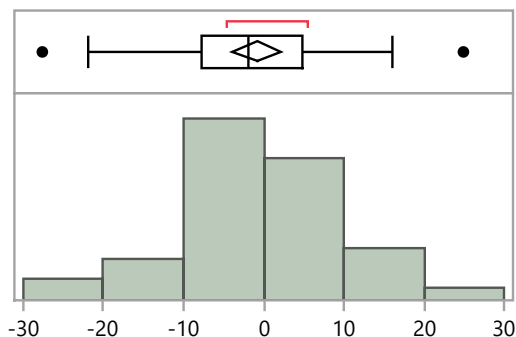


Quantiles

100.0%	maximum	4.8
99.5%		4.8
97.5%		4.8
90.0%		4.8
75.0%	quartile	4.8
50.0%	median	1.5
25.0%	quartile	1.1
10.0%		1.0
2.5%		1.0
0.5%		1.0
0.0%	minimum	1.0

Summary Statistics

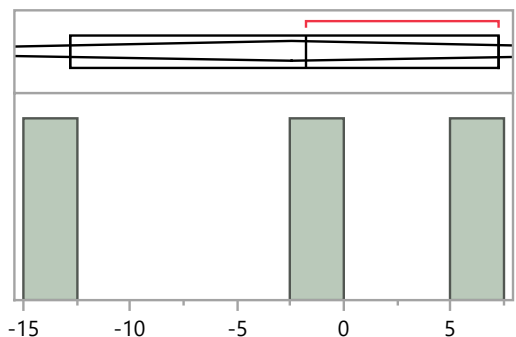
Mean	2.6
Std Dev	1.9
Std Err Mean	0.9
Upper 95% Mean	5.0
Lower 95% Mean	0.2
N	5.0

MaS54 Distribution by Preparation Method**Distributions Analyte_Method=Potassium-40 No preparation - analyzed as received****Bias****Quantiles**

100.0%	maximum	24.9
99.5%		24.9
97.5%		23.8
90.0%		12.5
75.0%	quartile	4.9
50.0%	median	-1.9
25.0%	quartile	-7.8
10.0%		-14.1
2.5%		-26.9
0.5%		-27.6
0.0%	minimum	-27.6

Summary Statistics

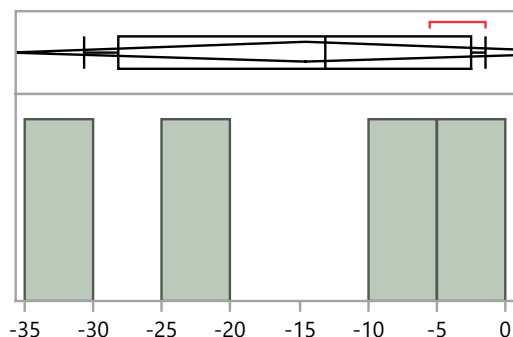
Mean	-0.9
Std Dev	10.2
Std Err Mean	1.5
Upper 95% Mean	2.2
Lower 95% Mean	-4.0
N	44.0

Distributions Analyte_Method=Potassium-40 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	-1.8
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	-2.5
Std Dev	10.0
Std Err Mean	5.8
Upper 95% Mean	22.4
Lower 95% Mean	-27.3
N	3.0

Distributions Analyte_Method=Strontium-90 Acid dissolution with hydrofluoric acid**Bias****Quantiles**

100.0%	maximum	-1.5
99.5%		-1.5
97.5%		-1.5
90.0%		-1.5
75.0%	quartile	-2.5
50.0%	median	-13.1
25.0%	quartile	-28.1
10.0%		-30.6
2.5%		-30.6
0.5%		-30.6
0.0%	minimum	-30.6

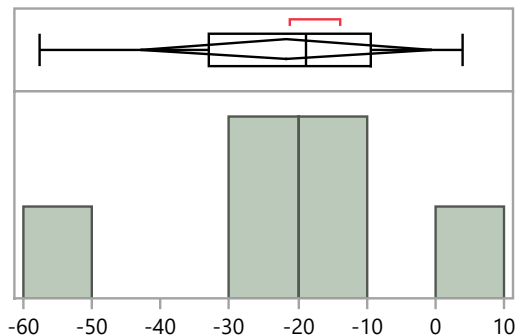
Summary Statistics

Mean	-14.6
Std Dev	13.5
Std Err Mean	6.8
Upper 95% Mean	6.9
Lower 95% Mean	-36.1
N	4.0

MaS54 Distribution by Preparation Method

Distributions Analyte_Method=Strontium-90 Acid leaching without hydrofluoric acid

Bias



Quantiles

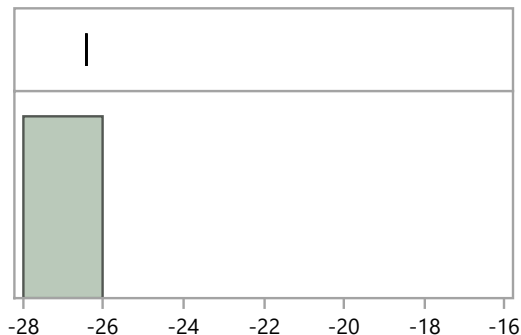
100.0%	maximum	3.9
99.5%		3.9
97.5%		3.9
90.0%		3.9
75.0%	quartile	-9.4
50.0%	median	-18.8
25.0%	quartile	-33.0
10.0%		-57.6
2.5%		-57.6
0.5%		-57.6
0.0%	minimum	-57.6

Summary Statistics

Mean	-21.7
Std Dev	20.2
Std Err Mean	8.3
Upper 95% Mean	-0.4
Lower 95% Mean	-42.9
N	6.0

Distributions Analyte_Method=Strontium-90 Coprecipitation, acidified

Bias



Quantiles

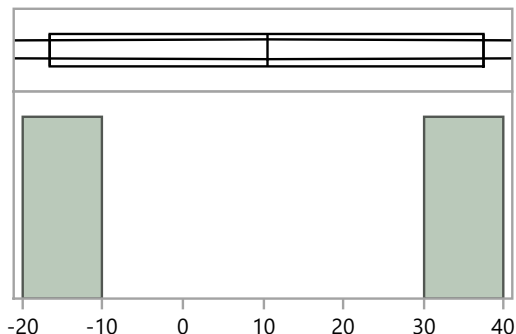
100.0%	maximum	-26.4
99.5%		-26.4
97.5%		-26.4
90.0%		-26.4
75.0%	quartile	-26.4
50.0%	median	-26.4
25.0%	quartile	-26.4
10.0%		-26.4
2.5%		-26.4
0.5%		-26.4
0.0%	minimum	-26.4

Summary Statistics

Mean	-26.4
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	37.5
99.5%		37.5
97.5%		37.5
90.0%		37.5
75.0%	quartile	37.5
50.0%	median	10.5
25.0%	quartile	-16.5
10.0%		-16.5
2.5%		-16.5
0.5%		-16.5
0.0%	minimum	-16.5

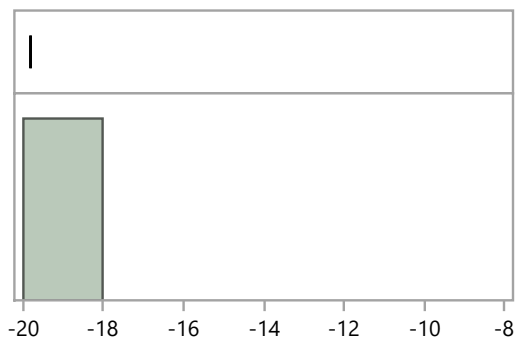
Summary Statistics

Mean	10.5
Std Dev	38.2
Std Err Mean	27.0
Upper 95% Mean	353.6
Lower 95% Mean	-332.6
N	2.0

MaS54 Distribution by Preparation Method

Distributions Analyte_Method=Strontium-90 No preparation - analyzed as received

Bias



Quantiles

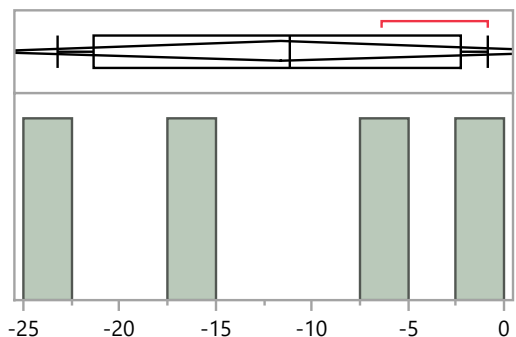
100.0%	maximum	-19.8
99.5%		-19.8
97.5%		-19.8
90.0%		-19.8
75.0%	quartile	-19.8
50.0%	median	-19.8
25.0%	quartile	-19.8
10.0%		-19.8
2.5%		-19.8
0.5%		-19.8
0.0%	minimum	-19.8

Summary Statistics

Mean	-19.8
Std Dev	.
Std Err Mean	.
Upper 95% Mean	.
Lower 95% Mean	.
N	1.0

Distributions Analyte_Method=Strontium-90 Other

Bias



Quantiles

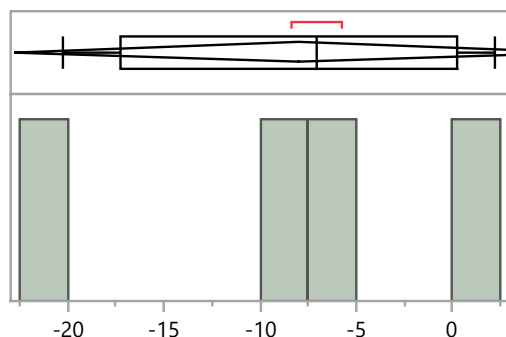
100.0%	maximum	-0.9
99.5%		-0.9
97.5%		-0.9
90.0%		-0.9
75.0%	quartile	-2.3
50.0%	median	-11.2
25.0%	quartile	-21.4
10.0%		-23.2
2.5%		-23.2
0.5%		-23.2
0.0%	minimum	-23.2

Summary Statistics

Mean	-11.6
Std Dev	9.9
Std Err Mean	5.0
Upper 95% Mean	4.2
Lower 95% Mean	-27.4
N	4.0

Distributions Analyte_Method=Strontium-90 Total dissolution by fusion

Bias



Quantiles

100.0%	maximum	2.2
99.5%		2.2
97.5%		2.2
90.0%		2.2
75.0%	quartile	0.2
50.0%	median	-7.1
25.0%	quartile	-17.3
10.0%		-20.2
2.5%		-20.2
0.5%		-20.2
0.0%	minimum	-20.2

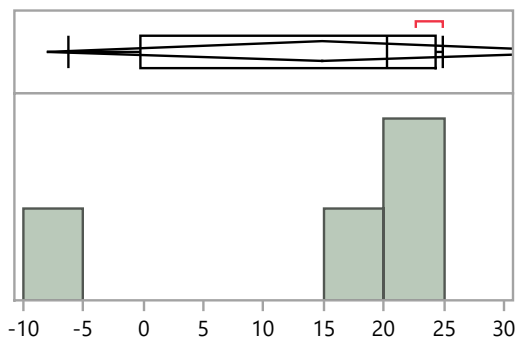
Summary Statistics

Mean	-8.0
Std Dev	9.3
Std Err Mean	4.6
Upper 95% Mean	6.7
Lower 95% Mean	-22.8
N	4.0

MaS54 Distribution by Preparation Method

Distributions Analyte_Method=Thorium-228 Acid dissolution with hydrofluoric acid

Bias



Quantiles

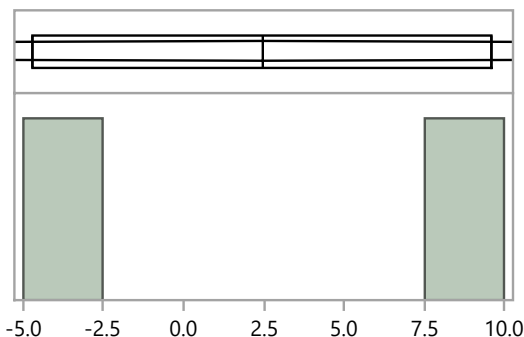
100.0%	maximum	24.9
99.5%		24.9
97.5%		24.9
90.0%		24.9
75.0%	quartile	24.3
50.0%	median	20.3
25.0%	quartile	-0.2
10.0%		-6.2
2.5%		-6.2
0.5%		-6.2
0.0%	minimum	-6.2

Summary Statistics

Mean	14.8
Std Dev	14.3
Std Err Mean	7.1
Upper 95% Mean	37.6
Lower 95% Mean	-8.0
N	4.0

Distributions Analyte_Method=Thorium-228 Acid leaching without hydrofluoric acid

Bias



Quantiles

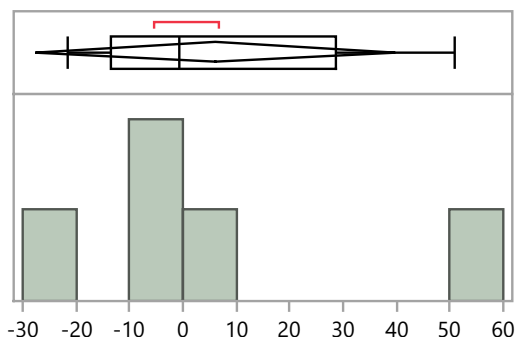
100.0%	maximum	9.6
99.5%		9.6
97.5%		9.6
90.0%		9.6
75.0%	quartile	9.6
50.0%	median	2.5
25.0%	quartile	-4.7
10.0%		-4.7
2.5%		-4.7
0.5%		-4.7
0.0%	minimum	-4.7

Summary Statistics

Mean	2.5
Std Dev	10.1
Std Err Mean	7.2
Upper 95% Mean	93.3
Lower 95% Mean	-88.4
N	2.0

Distributions Analyte_Method=Thorium-228 Other

Bias

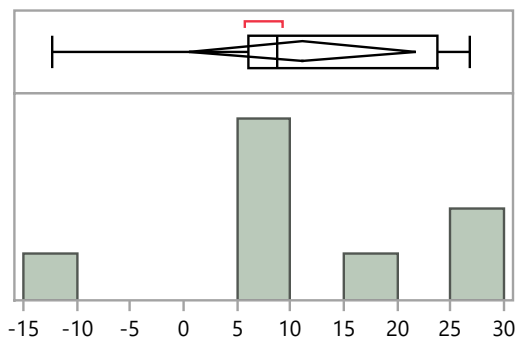


Quantiles

100.0%	maximum	50.7
99.5%		50.7
97.5%		50.7
90.0%		50.7
75.0%	quartile	28.7
50.0%	median	-0.5
25.0%	quartile	-13.4
10.0%		-21.5
2.5%		-21.5
0.5%		-21.5
0.0%	minimum	-21.5

Summary Statistics

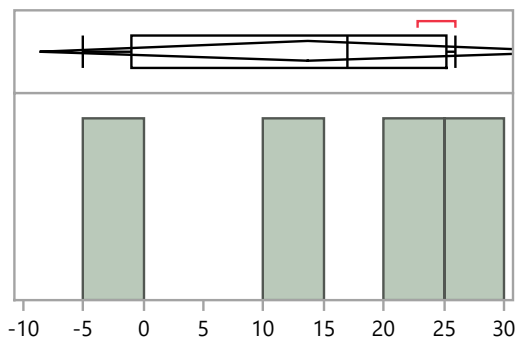
Mean	6.0
Std Dev	27.0
Std Err Mean	12.1
Upper 95% Mean	39.6
Lower 95% Mean	-27.6
N	5.0

MaS54 Distribution by Preparation Method**Distributions Analyte_Method=Thorium-228 Total dissolution by fusion****Bias****Quantiles**

100.0%	maximum	26.7
99.5%		26.7
97.5%		26.7
90.0%		26.7
75.0%	quartile	23.8
50.0%	median	8.7
25.0%	quartile	6.1
10.0%		-12.3
2.5%		-12.3
0.5%		-12.3
0.0%	minimum	-12.3

Summary Statistics

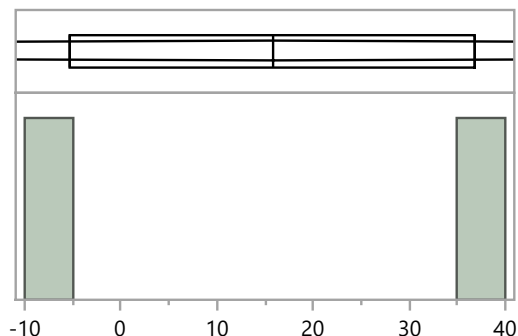
Mean	11.2
Std Dev	12.6
Std Err Mean	4.5
Upper 95% Mean	21.7
Lower 95% Mean	0.6
N	8.0

Distributions Analyte_Method=Thorium-230 Acid dissolution with hydrofluoric acid**Bias****Quantiles**

100.0%	maximum	26.0
99.5%		26.0
97.5%		26.0
90.0%		26.0
75.0%	quartile	25.2
50.0%	median	17.0
25.0%	quartile	-1.0
10.0%		-5.0
2.5%		-5.0
0.5%		-5.0
0.0%	minimum	-5.0

Summary Statistics

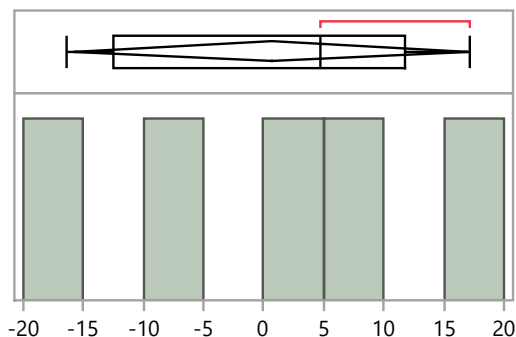
Mean	13.7
Std Dev	14.0
Std Err Mean	7.0
Upper 95% Mean	36.1
Lower 95% Mean	-8.6
N	4.0

Distributions Analyte_Method=Thorium-230 Acid leaching without hydrofluoric acid**Bias****Quantiles**

100.0%	maximum	36.8
99.5%		36.8
97.5%		36.8
90.0%		36.8
75.0%	quartile	36.8
50.0%	median	15.8
25.0%	quartile	-5.2
10.0%		-5.2
2.5%		-5.2
0.5%		-5.2
0.0%	minimum	-5.2

Summary Statistics

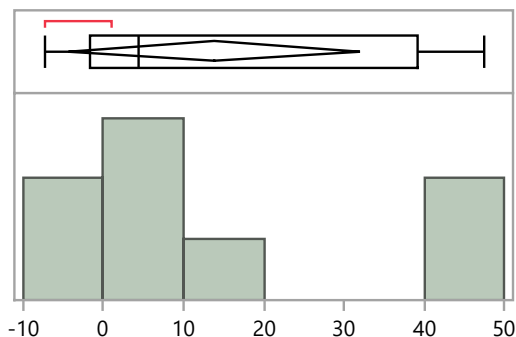
Mean	15.8
Std Dev	29.7
Std Err Mean	21.0
Upper 95% Mean	282.6
Lower 95% Mean	-251.0
N	2.0

MaS54 Distribution by Preparation Method**Distributions Analyte_Method=Thorium-230 Other****Bias****Quantiles**

100.0%	maximum	17.2
99.5%		17.2
97.5%		17.2
90.0%		17.2
75.0%	quartile	11.7
50.0%	median	4.7
25.0%	quartile	-12.5
10.0%		-16.4
2.5%		-16.4
0.5%		-16.4
0.0%	minimum	-16.4

Summary Statistics

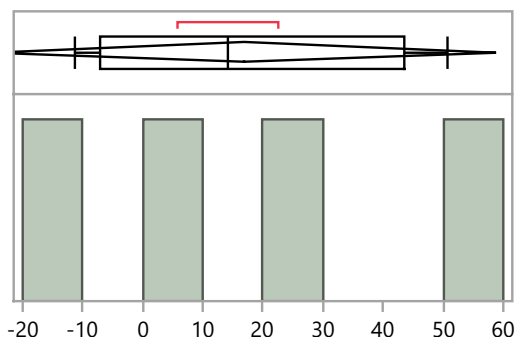
Mean	0.6
Std Dev	13.2
Std Err Mean	5.9
Upper 95% Mean	17.0
Lower 95% Mean	-15.7
N	5.0

Distributions Analyte_Method=Thorium-230 Total dissolution by fusion**Bias****Quantiles**

100.0%	maximum	47.4
99.5%		47.4
97.5%		47.4
90.0%		47.4
75.0%	quartile	39.3
50.0%	median	4.5
25.0%	quartile	-1.6
10.0%		-7.2
2.5%		-7.2
0.5%		-7.2
0.0%	minimum	-7.2

Summary Statistics

Mean	13.9
Std Dev	21.7
Std Err Mean	7.7
Upper 95% Mean	32.0
Lower 95% Mean	-4.3
N	8.0

Distributions Analyte_Method=Thorium-232 Acid dissolution with hydrofluoric acid**Bias****Quantiles**

100.0%	maximum	50.6
99.5%		50.6
97.5%		50.6
90.0%		50.6
75.0%	quartile	43.6
50.0%	median	14.2
25.0%	quartile	-7.1
10.0%		-11.3
2.5%		-11.3
0.5%		-11.3
0.0%	minimum	-11.3

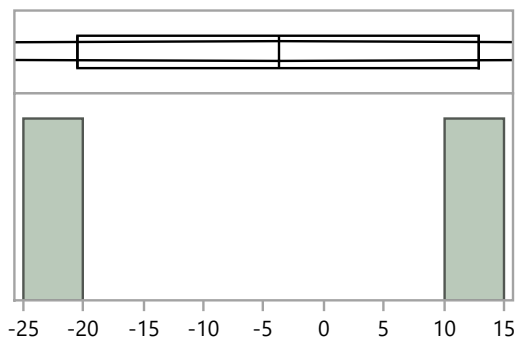
Summary Statistics

Mean	16.9
Std Dev	26.4
Std Err Mean	13.2
Upper 95% Mean	58.9
Lower 95% Mean	-25.1
N	4.0

MaS54 Distribution by Preparation Method

Distributions Analyte_Method=Thorium-232 Acid leaching without hydrofluoric acid

Bias



Quantiles

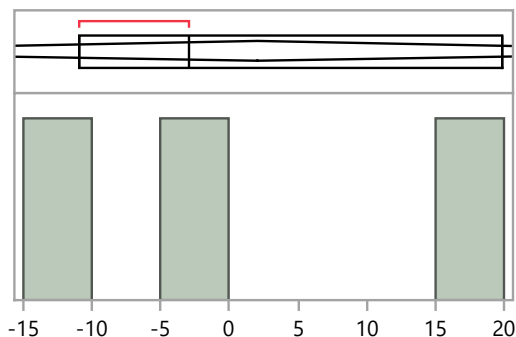
100.0%	maximum	12.9
99.5%		12.9
97.5%		12.9
90.0%		12.9
75.0%	quartile	12.9
50.0%	median	-3.8
25.0%	quartile	-20.5
10.0%		-20.5
2.5%		-20.5
0.5%		-20.5
0.0%	minimum	-20.5

Summary Statistics

Mean	-3.8
Std Dev	23.6
Std Err Mean	16.7
Upper 95% Mean	208.4
Lower 95% Mean	-216.0
N	2.0

Distributions Analyte_Method=Thorium-232 No preparation - analyzed as received

Bias



Quantiles

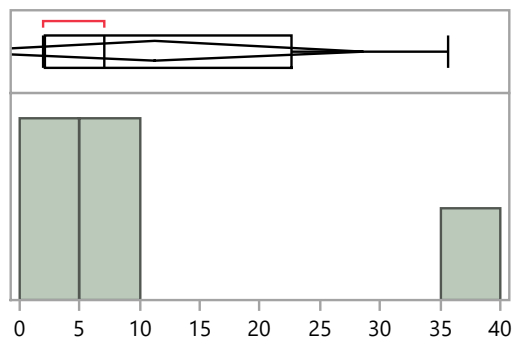
100.0%	maximum	19.8
99.5%		19.8
97.5%		19.8
90.0%		19.8
75.0%	quartile	19.8
50.0%	median	-2.9
25.0%	quartile	-10.9
10.0%		-10.9
2.5%		-10.9
0.5%		-10.9
0.0%	minimum	-10.9

Summary Statistics

Mean	2.0
Std Dev	15.9
Std Err Mean	9.2
Upper 95% Mean	41.6
Lower 95% Mean	-37.6
N	3.0

Distributions Analyte_Method=Thorium-232 Other

Bias

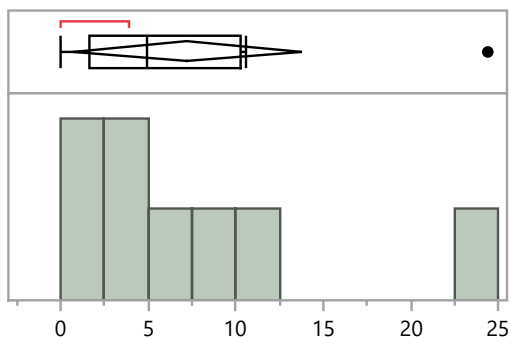


Quantiles

100.0%	maximum	35.6
99.5%		35.6
97.5%		35.6
90.0%		35.6
75.0%	quartile	22.6
50.0%	median	7.0
25.0%	quartile	2.2
10.0%		2.0
2.5%		2.0
0.5%		2.0
0.0%	minimum	2.0

Summary Statistics

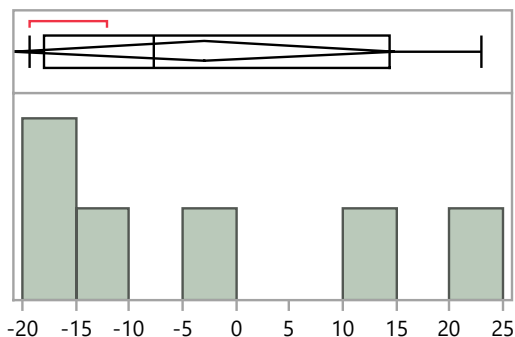
Mean	11.3
Std Dev	14.0
Std Err Mean	6.2
Upper 95% Mean	28.6
Lower 95% Mean	-6.0
N	5.0

MaS54 Distribution by Preparation Method**Distributions Analyte_Method=Thorium-232 Total dissolution by fusion****Bias****Quantiles**

100.0%	maximum	24.4
99.5%		24.4
97.5%		24.4
90.0%		24.4
75.0%	quartile	10.2
50.0%	median	5.0
25.0%	quartile	1.6
10.0%		0.0
2.5%		0.0
0.5%		0.0
0.0%	minimum	0.0

Summary Statistics

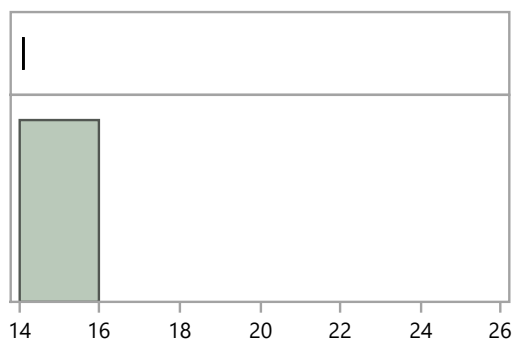
Mean	7.2
Std Dev	7.8
Std Err Mean	2.8
Upper 95% Mean	13.8
Lower 95% Mean	0.7
N	8.0

Distributions Analyte_Method=Uranium-234 Acid dissolution with hydrofluoric acid**Bias****Quantiles**

100.0%	maximum	23.0
99.5%		23.0
97.5%		23.0
90.0%		23.0
75.0%	quartile	14.4
50.0%	median	-7.7
25.0%	quartile	-18.0
10.0%		-19.3
2.5%		-19.3
0.5%		-19.3
0.0%	minimum	-19.3

Summary Statistics

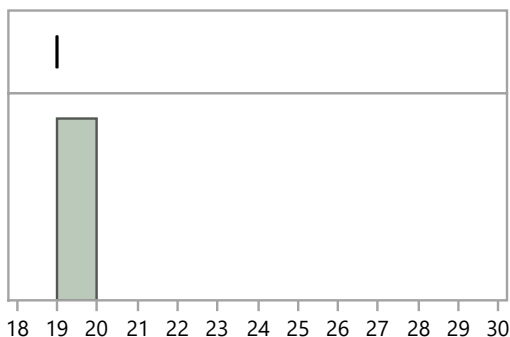
Mean	-3.0
Std Dev	17.0
Std Err Mean	6.9
Upper 95% Mean	14.9
Lower 95% Mean	-20.8
N	6.0

Distributions Analyte_Method=Uranium-234 Acid leaching without hydrofluoric acid**Bias****Quantiles**

100.0%	maximum	14.1
99.5%		14.1
97.5%		14.1
90.0%		14.1
75.0%	quartile	14.1
50.0%	median	14.1
25.0%	quartile	14.1
10.0%		14.1
2.5%		14.1
0.5%		14.1
0.0%	minimum	14.1

Summary Statistics

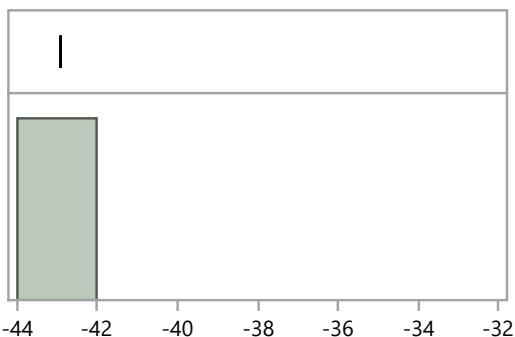
Mean	14.1
Std Dev	.
Std Err Mean	.
Upper 95% Mean	.
Lower 95% Mean	.
N	1.0

MaS54 Distribution by Preparation Method**Distributions Analyte_Method=Uranium-234 EPA 908, Uranium-Radiochemical Method, 600/4/80-032****Bias****Quantiles**

100.0%	maximum	19.0
99.5%		19.0
97.5%		19.0
90.0%		19.0
75.0%	quartile	19.0
50.0%	median	19.0
25.0%	quartile	19.0
10.0%		19.0
2.5%		19.0
0.5%		19.0
0.0%	minimum	19.0

Summary Statistics

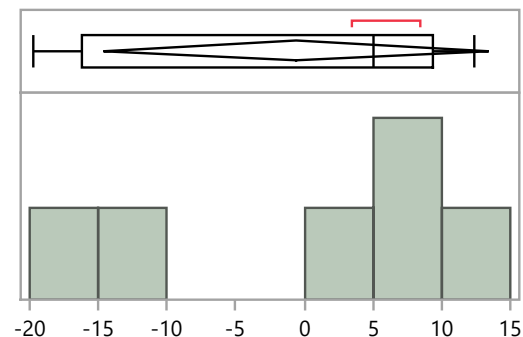
Mean	19.0
Std Dev	.
Std Err Mean	.
Upper 95% Mean	.
Lower 95% Mean	.
N	1.0

Distributions Analyte_Method=Uranium-234 Evaporation, acidified**Bias****Quantiles**

100.0%	maximum	-42.9
99.5%		-42.9
97.5%		-42.9
90.0%		-42.9
75.0%	quartile	-42.9
50.0%	median	-42.9
25.0%	quartile	-42.9
10.0%		-42.9
2.5%		-42.9
0.5%		-42.9
0.0%	minimum	-42.9

Summary Statistics

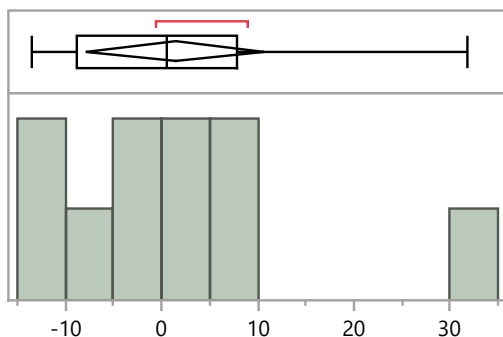
Mean	-42.9
Std Dev	.
Std Err Mean	.
Upper 95% Mean	.
Lower 95% Mean	.
N	1.0

Distributions Analyte_Method=Uranium-234 Other**Bias****Quantiles**

100.0%	maximum	12.4
99.5%		12.4
97.5%		12.4
90.0%		12.4
75.0%	quartile	9.4
50.0%	median	5.1
25.0%	quartile	-16.2
10.0%		-19.7
2.5%		-19.7
0.5%		-19.7
0.0%	minimum	-19.7

Summary Statistics

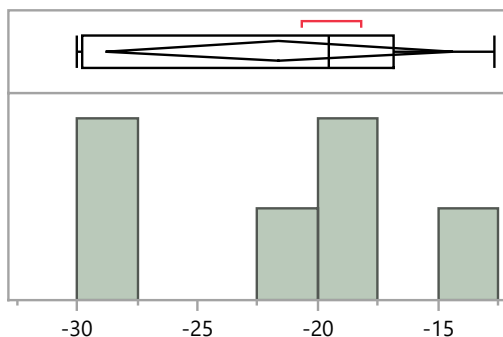
Mean	-0.6
Std Dev	13.3
Std Err Mean	5.4
Upper 95% Mean	13.4
Lower 95% Mean	-14.6
N	6.0

MaS54 Distribution by Preparation Method
Distributions Analyte_Method=Uranium-234 Total dissolution by fusion
Bias

Quantiles

100.0%	maximum	31.7
99.5%		31.7
97.5%		31.7
90.0%		29.4
75.0%	quartile	7.9
50.0%	median	0.6
25.0%	quartile	-8.8
10.0%		-13.3
2.5%		-13.5
0.5%		-13.5
0.0%	minimum	-13.5

Summary Statistics

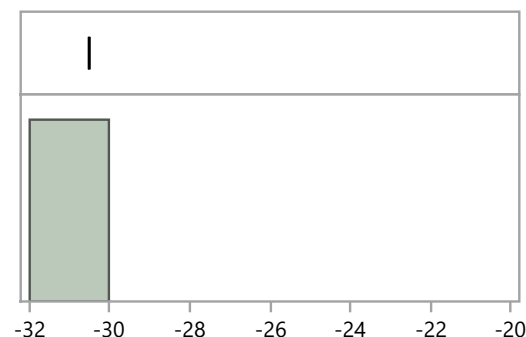
Mean	1.4
Std Dev	13.0
Std Err Mean	4.1
Upper 95% Mean	10.7
Lower 95% Mean	-7.9
N	10.0

Distributions Analyte_Method=Uranium-238 Acid dissolution with hydrofluoric acid
Bias

Quantiles

100.0%	maximum	-12.7
99.5%		-12.7
97.5%		-12.7
90.0%		-12.7
75.0%	quartile	-16.8
50.0%	median	-19.6
25.0%	quartile	-29.8
10.0%		-30.0
2.5%		-30.0
0.5%		-30.0
0.0%	minimum	-30.0

Summary Statistics

Mean	-21.6
Std Dev	6.9
Std Err Mean	2.8
Upper 95% Mean	-14.4
Lower 95% Mean	-28.9
N	6.0

Distributions Analyte_Method=Uranium-238 Acid leaching without hydrofluoric acid
Bias

Quantiles

100.0%	maximum	-30.5
99.5%		-30.5
97.5%		-30.5
90.0%		-30.5
75.0%	quartile	-30.5
50.0%	median	-30.5
25.0%	quartile	-30.5
10.0%		-30.5
2.5%		-30.5
0.5%		-30.5
0.0%	minimum	-30.5

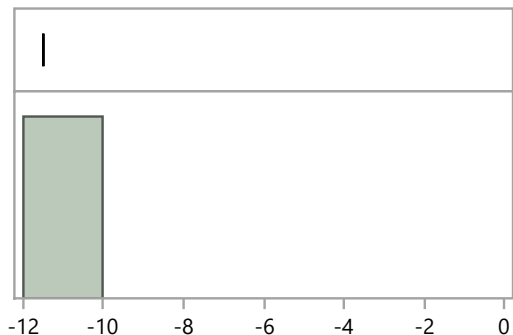
Summary Statistics

Mean	-30.5
Std Dev	.
Std Err Mean	.
Upper 95% Mean	.
Lower 95% Mean	.
N	1.0

MaS54 Distribution by Preparation Method

Distributions Analyte_Method=Uranium-238 EPA 908, Uranium-Radiochemical Method, 600/4/80-032

Bias



Quantiles

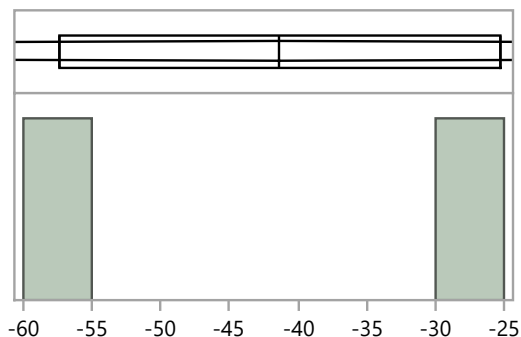
100.0%	maximum	-11.5
99.5%		-11.5
97.5%		-11.5
90.0%		-11.5
75.0%	quartile	-11.5
50.0%	median	-11.5
25.0%	quartile	-11.5
10.0%		-11.5
2.5%		-11.5
0.5%		-11.5
0.0%	minimum	-11.5

Summary Statistics

Mean	-11.5
Std Dev	.
Std Err Mean	.
Upper 95% Mean	.
Lower 95% Mean	.
N	1.0

Distributions Analyte_Method=Uranium-238 Evaporation, acidified

Bias



Quantiles

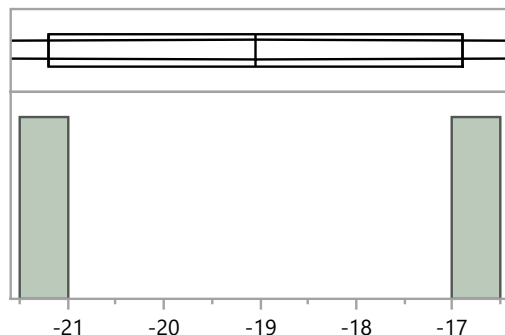
100.0%	maximum	-25.3
99.5%		-25.3
97.5%		-25.3
90.0%		-25.3
75.0%	quartile	-25.3
50.0%	median	-41.4
25.0%	quartile	-57.4
10.0%		-57.4
2.5%		-57.4
0.5%		-57.4
0.0%	minimum	-57.4

Summary Statistics

Mean	-41.4
Std Dev	22.7
Std Err Mean	16.1
Upper 95% Mean	162.6
Lower 95% Mean	-245.3
N	2.0

Distributions Analyte_Method=Uranium-238 No preparation - analyzed as received

Bias

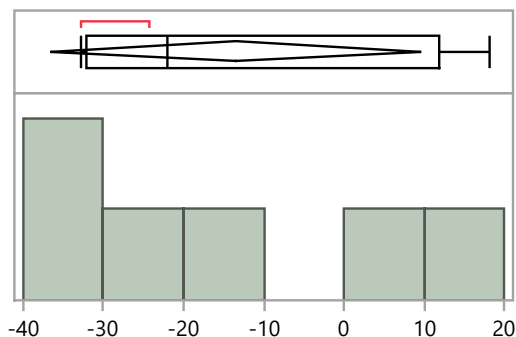


Quantiles

100.0%	maximum	-16.9
99.5%		-16.9
97.5%		-16.9
90.0%		-16.9
75.0%	quartile	-16.9
50.0%	median	-19.1
25.0%	quartile	-21.2
10.0%		-21.2
2.5%		-21.2
0.5%		-21.2
0.0%	minimum	-21.2

Summary Statistics

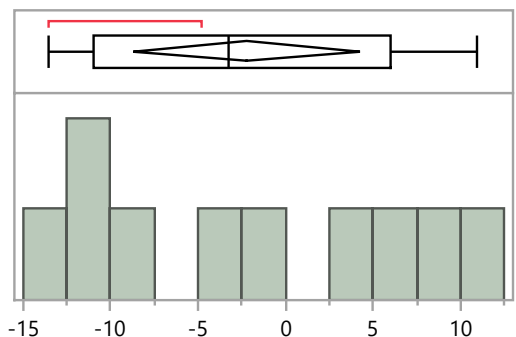
Mean	-19.1
Std Dev	3.0
Std Err Mean	2.2
Upper 95% Mean	8.3
Lower 95% Mean	-46.4
N	2.0

MaS54 Distribution by Preparation Method**Distributions Analyte_Method=Uranium-238 Other****Bias****Quantiles**

100.0%	maximum	18.2
99.5%		18.2
97.5%		18.2
90.0%		18.2
75.0%	quartile	11.9
50.0%	median	-22.0
25.0%	quartile	-32.2
10.0%		-32.7
2.5%		-32.7
0.5%		-32.7
0.0%	minimum	-32.7

Summary Statistics

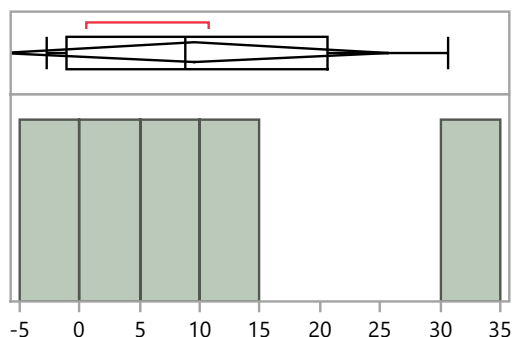
Mean	-13.4
Std Dev	22.0
Std Err Mean	9.0
Upper 95% Mean	9.6
Lower 95% Mean	-36.5
N	6.0

Distributions Analyte_Method=Uranium-238 Total dissolution by fusion**Bias****Quantiles**

100.0%	maximum	10.9
99.5%		10.9
97.5%		10.9
90.0%		10.7
75.0%	quartile	6.1
50.0%	median	-3.3
25.0%	quartile	-11.0
10.0%		-13.3
2.5%		-13.5
0.5%		-13.5
0.0%	minimum	-13.5

Summary Statistics

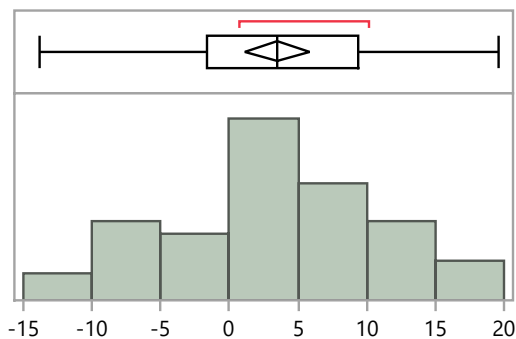
Mean	-2.2
Std Dev	9.1
Std Err Mean	2.9
Upper 95% Mean	4.2
Lower 95% Mean	-8.7
N	10.0

Distributions Analyte_Method=Zinc-65 EPA 901.1, Gamma Emitting, 600/4-80-032**Bias****Quantiles**

100.0%	maximum	30.6
99.5%		30.6
97.5%		30.6
90.0%		30.6
75.0%	quartile	20.7
50.0%	median	8.8
25.0%	quartile	-1.1
10.0%		-2.7
2.5%		-2.7
0.5%		-2.7
0.0%	minimum	-2.7

Summary Statistics

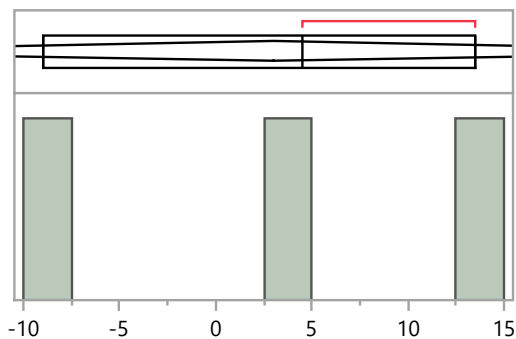
Mean	9.6
Std Dev	13.0
Std Err Mean	5.8
Upper 95% Mean	25.7
Lower 95% Mean	-6.5
N	5.0

MaS54 Distribution by Preparation Method**Distributions Analyte_Method=Zinc-65 No preparation - analyzed as received****Bias****Quantiles**

100.0%	maximum	19.6
99.5%		19.6
97.5%		19.5
90.0%		13.6
75.0%	quartile	9.4
50.0%	median	3.5
25.0%	quartile	-1.7
10.0%		-6.5
2.5%		-13.8
0.5%		-13.8
0.0%	minimum	-13.8

Summary Statistics

Mean	3.5
Std Dev	7.7
Std Err Mean	1.2
Upper 95% Mean	5.8
Lower 95% Mean	1.2
N	45.0

Distributions Analyte_Method=Zinc-65 Other**Bias****Quantiles**

100.0%	maximum	13.5
99.5%		13.5
97.5%		13.5
90.0%		13.5
75.0%	quartile	13.5
50.0%	median	4.5
25.0%	quartile	-9.0
10.0%		-9.0
2.5%		-9.0
0.5%		-9.0
0.0%	minimum	-9.0

Summary Statistics

Mean	3.0
Std Dev	11.3
Std Err Mean	6.5
Upper 95% Mean	31.1
Lower 95% Mean	-25.1
N	3.0