

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.

RdV53 Participating Laboratories

Lab Code	Lab Name	Matrix Code
ADEM01	Alabama Department of Environmental Management	RdV
ADFC99	Abu Dhabi Quality and Conformity Council-Central Testing Lab	RdV
AMEC99	Amentum Clean Energy Ltd	RdV
ARSL01	ARS	RdV
BSCE99	Supreme Council for Environment	RdV
CDHS01	California Department of Public Health	RdV
CMRC01	Carlsbad Environmental Monitoring and Research Center	RdV
COPS99	Health Canada Radiation Protection Bureau	RdV
CSSL99	Chemistry Support Services	RdV
ERCL01	Washington State Public Health Laboratories	RdV
ERHD99	National Monitoring Section, Radiation Protection Bureau, Health Canada	RdV
FANR79	Federal Authority for Nuclear Regulation, Environmental Laboratory	RdV
FDHE01	Florida Dept of Health Environmental Laboratory	RdV
FDOH01	Florida Dept. of Health, Mobile Environmental Radiological Lab	RdV
GENE01	GEL Laboratories, LLC	RdV
GPCL01	Georgia Power Company Environmental Laboratory	RdV
HECR01	SC Department of Environmental Services	RdV
HPAC99	UKHSA, RCE Glasgow	RdV
IDOH01	Indiana Department of Health	RdV
IEMA01	Illinois Emergency Management Agency Radiochemistry Laboratory	RdV
ISUE01	ISU Environmental Monitoring Laboratory	RdV
JNRC99	Energy and Mineral Regulatory Commission	RdV
LOCK03	Advanced Test Reactor (ATR) Complex Radioanalytical Laboratory	RdV
NARL01	National Analytical Radiation Environmental Laboratory	RdV
NJDH01	New Jersey Dept. of Health, ECLS	RdV
NOCS99	National Oceanography Centre, Southampton	RdV
ODHL01	Ohio Department of Health Laboratory	RdV
RPSC01	Radiation Protection Service	RdV
SEML01	SRS Environmental Monitoring Laboratory	RdV
SOUT01	Southwest Research Institute	RdV
SRPD01	Sandia National Laboratories, Radiation Protection Sample Diagnostics	RdV
TDHL01	Texas Department of State Health Services Laboratory	RdV
TELE01	Teledyne Brown Engineering - Environmental Services	RdV
TELE02	Microbac Laboratories Inc. - Northbrook	RdV
TMAO01	EBERLINE Analytical Corporation	RdV
UNTE01	UniTech-235	RdV
WIPH01	WI, DPH, Radiation Protection Section	RdV
WSHL01	Wisconsin State Laboratory of Hygiene	RdV
WSTP99	Cavendish Nuclear Limited	RdV

Laboratories Not Reporting

Lab Code	Lab Name	Matrix Code
ASUK99	AWE (Aldermaston)	RdV
IAEA59	IAEA-Equipment Radiation Monitoring Laboratory	RdV
IAEA99	International Atomic Energy Agency	RdV
MDPH01	MDPH-Division of Radiation Control	RdV
NSPH01	Nevada State Public Health Laboratory	RdV
SANC99	RadioAnalysis, South Africa Nuclear Energy Corp.	RdV
WIPP01	WIPP Laboratories	RdV

Study Reference Values

MAPEP-25-RdV53

Radiological Reference Date: 08/01/2025

Analyte	Ref Value	Ref Unc	Units
Inorganic			
Uranium-235	0.069	0.004	(ug/sample)
Uranium-238	9.6	0.4	(ug/sample)
Uranium-Total	9.6	0.4	(ug/sample)

Analyte	Ref Value	Ref Unc	Units
Radiological			
Americium-241	0.00038	0.00008	(Bq/sample)
Cesium-137	0.986	0.016	(Bq/sample)
Cobalt-57	4.47	0.09	(Bq/sample)
Cobalt-60	2.30	0.05	(Bq/sample)
Manganese-54	3.10	0.06	(Bq/sample)
Plutonium-238	0.0366	0.0012	(Bq/sample)
Plutonium-239/240	0.0371	0.0016	(Bq/sample)
Strontium-90	1.43	0.03	(Bq/sample)
Uranium-234	0.115	0.005	(Bq/sample)
Uranium-238	0.119	0.005	(Bq/sample)
Zinc-65	9.29	0.19	(Bq/sample)

Sample Statistical Summary

MAPEP-25-RdV53

Radiological Reference Date: 08/01/2025

Analyte	T(1)	A(2)	Grand(3) Mean	Std Dev	Ref Value	Ref Unc	Acceptance Range	Units
Inorganic								
Uranium-235	5	4			0.069	0.004	0.048 - 0.090	(ug/sample)
Uranium-238	5	4			9.6	0.4	6.7 - 12.5	(ug/sample)
Uranium-Total	3	3			9.6	0.4	6.7 - 12.5	(ug/sample)

Analyte	T(1)	A(2)	Grand(3) Mean	Std Dev	Ref Value	Ref Unc	Acceptance Range	Units
Radiological								
Americium-241	19	16		0.16262	0.00038	0.00008	Sensitivity Evaluation	(Bq/sample)
Cesium-134	33	30					False Positive Test	(Bq/sample)
Cesium-137	39	30	1.039	0.089	0.986	0.016	0.690 - 1.282	(Bq/sample)
Cobalt-57	38	30	4.72	0.46	4.47	0.09	3.13 - 5.81	(Bq/sample)
Cobalt-60	39	32	2.43	0.20	2.30	0.05	1.61 - 2.99	(Bq/sample)
Manganese-54	39	33	3.28	0.34	3.10	0.06	2.17 - 4.03	(Bq/sample)
Plutonium-238	15	14	0.0371	0.0036	0.0366	0.0012	0.0256 - 0.0476	(Bq/sample)
Plutonium-239/240	15	13	0.0365	0.0043	0.0371	0.0016	0.0260 - 0.0482	(Bq/sample)
Strontium-90	17	15	1.37	0.15	1.43	0.03	1.00 - 1.86	(Bq/sample)
Uranium-234	16	13	0.115	0.009	0.115	0.005	0.081 - 0.150	(Bq/sample)
Uranium-238	17	13	0.115	0.014	0.119	0.005	0.083 - 0.155	(Bq/sample)
Zinc-65	39	31	9.88	0.92	9.29	0.19	6.50 - 12.08	(Bq/sample)

- 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, from large vegetation sample size and values indicated as "Not Acceptable".
(4) Uranium Reference values shown for small vegetation sample size only.

Results Flags:

A = Result acceptable.....|Bias| <= 20%
W = Result acceptable with warning.....20% < |Bias| <= 30%
N = Result not acceptable.....|Bias| > 30%
RW = Report Warning
NR = Not Reported

Uncertainty Flags:

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

Flag Summary Report

MAPEP-25-RdV53

Inorganic				
Analyte	A	W	RW	N
Uranium-Total	3			
Uranium-235	4			1
Uranium-238	4			1
Radiological				
Analyte	A	W	RW	N
Americium-241	16			3
Cesium-134	30			5
Cesium-137	29	1		9
Cobalt-57	28	2		8
Cobalt-60	30	2		7
Manganese-54	30	3		6
Plutonium-238	14			1
Plutonium-239/240	11	2		2
Strontium-90	14	1		2
Uranium-234	12	1		3
Uranium-238	11	2		4
Zinc-65	29	2		8



Laboratory Results For MAPEP-25-RdV53

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

Inorganic						Units: (ug/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Uranium-235	NR	0.069				0.048 - 0.090	
Uranium-238	NR	9.6				6.7 - 12.5	
Uranium-Total	NR	9.6				6.7 - 12.5	

Radiological						Units: (Bq/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Americium-241	NR	0.00038				Sensitivity Evaluation	
Cesium-134	NR					False Positive Test	
Cesium-137	1.0500	0.986	A		6.5	0.690 - 1.282	0.0926 A
Cobalt-57	4.8500	4.47	A		8.5	3.13 - 5.81	0.2240 A
Cobalt-60	2.5300	2.30	A		10.0	1.61 - 2.99	0.1080 A
Manganese-54	3.6800	3.10	A		18.7	2.17 - 4.03	0.2180 A
Plutonium-238	NR	0.0366				0.0256 - 0.0476	
Plutonium-239/240	NR	0.0371				0.0260 - 0.0482	
Strontium-90	NR	1.43				1.00 - 1.86	
Uranium-234	NR	0.115				0.081 - 0.150	
Uranium-238	NR	0.119				0.083 - 0.155	
Zinc-65	10.9000	9.29	A		17.3	6.50 - 12.08	0.5580 A

Radiological Reference Date: August 1, 2025

Results Flags:

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

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

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

RW = Report Warning

NR = Not Reported

Uncertainty Flags:

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

A = ACCEPTABLE.....2% ≤ RP ≤ 15%

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

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

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

Notes:

(1) = False Positive

(4) = Sensitivity Evaluation

(11) = False Positive Test, Result Not Reported

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

(28) = Not Reporting Previously Reported Analyte

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



Laboratory Results For MAPEP-25-RdV53

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

Radiation Lab

Abu Dhabi, Abu Dhabi 853

Inorganic						Units: (ug/sample)		
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Uranium-235	NR	0.069				0.048 - 0.090		
Uranium-238	NR	9.6				6.7 - 12.5		
Uranium-Total	NR	9.6				6.7 - 12.5		

Radiological					Units: (Bq/sample)			
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	NR	0.00038				Sensitivity Evaluation		
Cesium-134	NR		N	(11)		False Positive Test		
Cesium-137	1.10	0.986	A		11.6	0.690 - 1.282	0.08	A
Cobalt-57	4.93	4.47	A		10.3	3.13 - 5.81	0.47	A
Cobalt-60	2.62	2.30	A		13.9	1.61 - 2.99	0.30	A
Manganese-54	3.42	3.10	A		10.3	2.17 - 4.03	0.30	A
Plutonium-238	NR	0.0366				0.0256 - 0.0476		
Plutonium-239/240	NR	0.0371				0.0260 - 0.0482		
Strontium-90	NR	1.43				1.00 - 1.86		
Uranium-234	NR	0.115				0.081 - 0.150		
Uranium-238	NR	0.119				0.083 - 0.155		
Zinc-65	11.86	9.29	W		27.7	6.50 - 12.08	1.0	A

Radiological Reference Date: August 1, 2025

Results Flags:

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

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

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

RW = Report Warning

NR = Not Reported

Uncertainty Flags:

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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:

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(11) = False Positive Test, Result Not Reported

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



Laboratory Results For MAPEP-25-RdV53

(AMEC99) Amentum Clean Energy Ltd

612 Faraday Street

Birchwood Park, Warrington WA3 6GN

Inorganic						Units: (ug/sample)		
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Uranium-235	NR	0.069				0.048 - 0.090		
Uranium-238	NR	9.6				6.7 - 12.5		
Uranium-Total	NR	9.6				6.7 - 12.5		

Radiological					Units: (Bq/sample)			
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	NR	0.00038				Sensitivity Evaluation		
Cesium-134	0.090		N	(1)		False Positive Test	0.026	
Cesium-137	1.069	0.986	A		8.4	0.690 - 1.282	0.065	A
Cobalt-57	4.66	4.47	A		4.3	3.13 - 5.81	0.26	A
Cobalt-60	2.54	2.30	A		10.4	1.61 - 2.99	0.14	A
Manganese-54	3.34	3.10	A		7.7	2.17 - 4.03	0.18	A
Plutonium-238	NR	0.0366				0.0256 - 0.0476		
Plutonium-239/240	NR	0.0371				0.0260 - 0.0482		
Strontium-90	1.42	1.43	A		-0.7	1.00 - 1.86	0.11	A
Uranium-234	NR	0.115				0.081 - 0.150		
Uranium-238	NR	0.119				0.083 - 0.155		
Zinc-65	10.32	9.29	A		11.1	6.50 - 12.08	0.54	A

Radiological Reference Date: August 1, 2025

Results Flags:

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

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

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

RW = Report Warning

NR = Not Reported

Uncertainty Flags:

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

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

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

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

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

Notes:

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Laboratory Results For MAPEP-25-RdV53

(ARSL01) ARS

2609 North River Road

Port Allen, LA 70767

Inorganic						Units: (ug/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Uranium-235	NR	0.069				0.048 - 0.090	
Uranium-238	NR	9.6				6.7 - 12.5	
Uranium-Total	NR	9.6				6.7 - 12.5	

Radiological						Units: (Bq/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Americium-241	0.04710	0.00038	A	(17)		Sensitivity Evaluation	0.06897
Cesium-134	-0.07480		A			False Positive Test	0.06316
Cesium-137	1.07740	0.986	A		9.3	0.690 - 1.282	0.05319 A
Cobalt-57	4.86620	4.47	A		8.9	3.13 - 5.81	0.19190 A
Cobalt-60	2.47750	2.30	A		7.7	1.61 - 2.99	0.06960 A
Manganese-54	3.20660	3.10	A		3.4	2.17 - 4.03	0.13373 A
Plutonium-238	NR	0.0366				0.0256 - 0.0476	
Plutonium-239/240	NR	0.0371				0.0260 - 0.0482	
Strontium-90	NR	1.43				1.00 - 1.86	
Uranium-234	NR	0.115				0.081 - 0.150	
Uranium-238	NR	0.119				0.083 - 0.155	
Zinc-65	10.17100	9.29	A		9.5	6.50 - 12.08	0.38191 A

Radiological Reference Date: August 1, 2025

Results Flags:

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

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

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

RW = Report Warning

NR = Not Reported

Uncertainty Flags:

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

A = ACCEPTABLE.....2% ≤ RP ≤ 15%

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

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

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

Notes:

(1) = False Positive

(4) = Sensitivity Evaluation

(11) = False Positive Test, Result Not Reported

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



Laboratory Results For MAPEP-25-RdV53
(BSCE99) Supreme Council for Environment
P. O. Box 18233
Manama, Manama 18233

Inorganic						Units: (ug/sample)		
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Uranium-235	NR	0.069				0.048 - 0.090		
Uranium-238	NR	9.6				6.7 - 12.5		
Uranium-Total	NR	9.6				6.7 - 12.5		

Radiological					Units: (Bq/sample)			
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	NR	0.00038				Sensitivity Evaluation		
Cesium-134	0.03		A			False Positive Test	0.02	
Cesium-137	0.83	0.986	A		-15.8	0.690 - 1.282	0.11	A
Cobalt-57	3.50	4.47	W		-21.7	3.13 - 5.81	0.33	A
Cobalt-60	1.58	2.30	N		-31.3	1.61 - 2.99	0.09	A
Manganese-54	2.72	3.10	A		-12.3	2.17 - 4.03	0.23	A
Plutonium-238	NR	0.0366				0.0256 - 0.0476		
Plutonium-239/240	NR	0.0371				0.0260 - 0.0482		
Strontium-90	NR	1.43				1.00 - 1.86		
Uranium-234	NR	0.115				0.081 - 0.150		
Uranium-238	NR	0.119				0.083 - 0.155		
Zinc-65	6.24	9.29	N		-32.8	6.50 - 12.08	0.44	A

Radiological Reference Date: August 1, 2025

Results Flags:

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

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

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

RW = Report Warning

NR = Not Reported

Uncertainty Flags:

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

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

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

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

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

Notes:

(1) = False Positive

(4) = Sensitivity Evaluation

(11) = False Positive Test, Result Not Reported

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

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



Laboratory Results For MAPEP-25-RdV53
(CDHS01) California Department of Public Health
Drinking Water & Radiation Lab.
Richmond, CA 94804-6403

Inorganic						Units: (ug/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Uranium-235	NR	0.069				0.048 - 0.090	
Uranium-238	NR	9.6				6.7 - 12.5	
Uranium-Total	NR	9.6				6.7 - 12.5	

Radiological						Units: (Bq/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Americium-241	-0.000753	0.00038	A	(17)		Sensitivity Evaluation	0.00124
Cesium-134	0.00398		A			False Positive Test	0.0364
Cesium-137	1.09	0.986	A		10.5	0.690 - 1.282	0.108 A
Cobalt-57	5.18	4.47	A		15.9	3.13 - 5.81	0.210 A
Cobalt-60	2.49	2.30	A		8.3	1.61 - 2.99	0.111 A
Manganese-54	3.52	3.10	A		13.5	2.17 - 4.03	0.194 A
Plutonium-238	0.0370	0.0366	A		1.1	0.0256 - 0.0476	0.00315 A
Plutonium-239/240	0.0396	0.0371	A		6.7	0.0260 - 0.0482	0.00324 A
Strontium-90	1.49	1.43	A		4.2	1.00 - 1.86	0.0414 A
Uranium-234	0.112	0.115	A		-2.6	0.081 - 0.150	0.00856 A
Uranium-238	0.107	0.119	A		-10.1	0.083 - 0.155	0.00845 A
Zinc-65	9.21	9.29	A		-0.9	6.50 - 12.08	0.460 A

Radiological Reference Date: August 1, 2025

Results Flags:

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

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

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

RW = Report Warning

NR = Not Reported

Uncertainty Flags:

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

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

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

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

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

Notes:

(1) = False Positive

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(11) = False Positive Test, Result Not Reported

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

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



Laboratory Results For MAPEP-25-RdV53

(CMRC01) Carlsbad Environmental Monitoring and Research Center

1400 University Dr.

Carlsbad, NM 88220

Inorganic						Units: (ug/sample)		
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Uranium-235	NR	0.069				0.048 - 0.090		
Uranium-238	NR	9.6				6.7 - 12.5		
Uranium-Total	NR	9.6				6.7 - 12.5		

Radiological					Units: (Bq/sample)			
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	9.49E-03	0.00038	N	(4)		Sensitivity Evaluation	7.02E-04	
Cesium-134	3.24E-03		A			False Positive Test	1.09E-02	
Cesium-137	9.31E-01	0.986	A		-5.6	0.690 - 1.282	2.45E-02	A
Cobalt-57	4.43E+00	4.47	A		-0.9	3.13 - 5.81	6.50E-02	N
Cobalt-60	2.17E+00	2.30	A		-5.7	1.61 - 2.99	3.76E-02	N
Manganese-54	3.09E+00	3.10	A		-0.3	2.17 - 4.03	4.88E-02	N
Plutonium-238	3.64E-02	0.0366	A		-0.5	0.0256 - 0.0476	1.75E-03	A
Plutonium-239/240	8.98E-02	0.0371	N		142.0	0.0260 - 0.0482	4.46E-03	A
Strontium-90	1.17E+00	1.43	A		-18.2	1.00 - 1.86	1.46E-02	N
Uranium-234	1.19E-01	0.115	A		3.5	0.081 - 0.150	7.31E-03	A
Uranium-238	1.16E-01	0.119	A		-2.5	0.083 - 0.155	7.14E-03	A
Zinc-65	9.75E+00	9.29	A		5.0	6.50 - 12.08	1.32E-01	N

Radiological Reference Date: August 1, 2025

Results Flags:

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

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

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

RW = Report Warning

NR = Not Reported

Uncertainty Flags:

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

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

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

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

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

Notes:

(1) = False Positive

(4) = Sensitivity Evaluation

(11) = False Positive Test, Result Not Reported

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

(28) = Not Reporting Previously Reported Analyte

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



Laboratory Results For MAPEP-25-RdV53
(COPS99) Health Canada Radiation Protection Bureau
775 Brookfield Road
Ottawa, Ontario K1A 1C1

Inorganic						Units: (ug/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Uranium-235	NR	0.069				0.048 - 0.090	
Uranium-238	NR	9.6				6.7 - 12.5	
Uranium-Total	NR	9.6				6.7 - 12.5	

Radiological						Units: (Bq/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Americium-241	NR	0.00038				Sensitivity Evaluation	
Cesium-134	0.000116		A			False Positive Test	0.000066
Cesium-137	1.11	0.986	A		12.6	0.690 - 1.282	0.07 A
Cobalt-57	5.23	4.47	A		17.0	3.13 - 5.81	0.38 A
Cobalt-60	2.74	2.30	A		19.1	1.61 - 2.99	0.09 A
Manganese-54	3.5	3.10	A		12.9	2.17 - 4.03	0.22 A
Plutonium-238	NR	0.0366				0.0256 - 0.0476	
Plutonium-239/240	NR	0.0371				0.0260 - 0.0482	
Strontium-90	NR	1.43				1.00 - 1.86	
Uranium-234	NR	0.115				0.081 - 0.150	
Uranium-238	NR	0.119				0.083 - 0.155	
Zinc-65	10.96	9.29	A		18.0	6.50 - 12.08	0.49 A

Radiological Reference Date: August 1, 2025

Results Flags:

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

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

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

RW = Report Warning

NR = Not Reported

Uncertainty Flags:

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

A = ACCEPTABLE.....2% ≤ RP ≤ 15%

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

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

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

Notes:

(1) = False Positive

(4) = Sensitivity Evaluation

(11) = False Positive Test, Result Not Reported

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

(28) = Not Reporting Previously Reported Analyte

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



Laboratory Results For MAPEP-25-RdV53

(CSSL99) Chemistry Support Services

Dounreay

Thurso, Caithness KW14 7TZ

Inorganic						Units: (ug/sample)		
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Uranium-235	NR	0.069				0.048 - 0.090		
Uranium-238	NR	9.6				6.7 - 12.5		
Uranium-Total	NR	9.6				6.7 - 12.5		

Radiological						Units: (Bq/sample)		
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	0.0002378	0.00038	A			Sensitivity Evaluation	0.000006	
Cesium-134	NR		N	(11)		False Positive Test		
Cesium-137	NR	0.986	N	(28)		0.690 - 1.282		
Cobalt-57	NR	4.47	N	(28)		3.13 - 5.81		
Cobalt-60	NR	2.30	N	(28)		1.61 - 2.99		
Manganese-54	NR	3.10	N	(28)		2.17 - 4.03		
Plutonium-238	0.0384385	0.0366	A		5.0	0.0256 - 0.0476	0.001183	A
Plutonium-239/240	0.0365668	0.0371	A		-1.4	0.0260 - 0.0482	0.001104	A
Strontium-90	1.43	1.43	A		0.0	1.00 - 1.86	0.182	A
Uranium-234	NR	0.115				0.081 - 0.150		
Uranium-238	NR	0.119				0.083 - 0.155		
Zinc-65	NR	9.29	N	(28)		6.50 - 12.08		

Radiological Reference Date: August 1, 2025

Results Flags:

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

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

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

RW = Report Warning

NR = Not Reported

Uncertainty Flags:

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

A = ACCEPTABLE.....2% ≤ RP ≤ 15%

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

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

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

Notes:

(1) = False Positive

(4) = Sensitivity Evaluation

(11) = False Positive Test, Result Not Reported

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

(28) = Not Reporting Previously Reported Analyte

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



Laboratory Results For MAPEP-25-RdV53
(ERCL01) Washington State Public Health Laboratories
1610 N.E. 150th Street
Shoreline, WA 98155-9701

Inorganic						Units: (ug/sample)		
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Uranium-235	0.0644	0.069	A		-6.7	0.048 - 0.090	0.0089	A
Uranium-238	9.0	9.6	A		-6.3	6.7 - 12.5	1.2	A
Uranium-Total	9.0	9.6	A		-6.3	6.7 - 12.5	1.2	A

Radiological						Units: (Bq/sample)		
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	-0.0045	0.00038	A	(17)		Sensitivity Evaluation	0.0068	
Cesium-134	0.025		A			False Positive Test	0.043	
Cesium-137	1.53	0.986	N		55.2	0.690 - 1.282	0.09	A
Cobalt-57	7.79	4.47	N		74.3	3.13 - 5.81	0.16	A
Cobalt-60	3.52	2.30	N		53.0	1.61 - 2.99	0.13	A
Manganese-54	4.07	3.10	N		31.3	2.17 - 4.03	0.13	A
Plutonium-238	0.0303	0.0366	A		-17.2	0.0256 - 0.0476	0.0039	A
Plutonium-239/240	0.0288	0.0371	W		-22.4	0.0260 - 0.0482	0.0042	A
Strontium-90	1.16	1.43	A		-18.9	1.00 - 1.86	0.09	A
Uranium-234	0.111	0.115	A		-3.5	0.081 - 0.150	0.012	A
Uranium-238	0.116	0.119	A		-2.5	0.083 - 0.155	0.012	A
Zinc-65	12.4	9.29	N		33.5	6.50 - 12.08	0.3	A

Radiological Reference Date: August 1, 2025

Results Flags:

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

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

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

RW = Report Warning

NR = Not Reported

Uncertainty Flags:

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

A = ACCEPTABLE.....2% ≤ RP ≤ 15%

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

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

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

Notes:

(1) = False Positive

(4) = Sensitivity Evaluation

(11) = False Positive Test, Result Not Reported

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

(28) = Not Reporting Previously Reported Analyte

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



Laboratory Results For MAPEP-25-RdV53

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

Inorganic						Units: (ug/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Flag
Uranium-235	0.079	0.069	A		14.5	0.048 - 0.090	0.0009 N
Uranium-238	11.199	9.6	A		16.7	6.7 - 12.5	0.08 N
Uranium-Total	NR	9.6				6.7 - 12.5	

Radiological						Units: (Bq/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Flag
Americium-241	0.001	0.00038	A	(17)		Sensitivity Evaluation	0.002
Cesium-134	0.024		A			False Positive Test	0.04
Cesium-137	1.18	0.986	A		19.7	0.690 - 1.282	0.14 A
Cobalt-57	5.83	4.47	N		30.4	3.13 - 5.81	0.11 N
Cobalt-60	2.81	2.30	W		22.2	1.61 - 2.99	0.57 W
Manganese-54	3.98	3.10	W		28.4	2.17 - 4.03	0.43 A
Plutonium-238	0.0356	0.0366	A		-2.7	0.0256 - 0.0476	0.001 A
Plutonium-239/240	0.0360	0.0371	A		-3.0	0.0260 - 0.0482	0.001 A
Strontium-90	1.50	1.43	A		4.9	1.00 - 1.86	0.03 A
Uranium-234	0.108	0.115	A		-6.1	0.081 - 0.150	0.003 A
Uranium-238	0.114	0.119	A		-4.2	0.083 - 0.155	0.003 A
Zinc-65	12.3	9.29	N		32.4	6.50 - 12.08	1.4 A

Radiological Reference Date: August 1, 2025

Results Flags:

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

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

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

RW = Report Warning

NR = Not Reported

Uncertainty Flags:

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

A = ACCEPTABLE.....2% ≤ RP ≤ 15%

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

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

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

Notes:

(1) = False Positive

(4) = Sensitivity Evaluation

(11) = False Positive Test, Result Not Reported

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

(28) = Not Reporting Previously Reported Analyte

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



Laboratory Results For MAPEP-25-RdV53

(FANR79) Federal Authority for Nuclear Regulation, Environmental Laboratory

Zayed University, gate number 5

Abu Dhabi, Abu Dhabi 00971

Inorganic						Units: (ug/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Uranium-235	NR	0.069				0.048 - 0.090	
Uranium-238	NR	9.6				6.7 - 12.5	
Uranium-Total	NR	9.6				6.7 - 12.5	

Radiological						Units: (Bq/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Americium-241	NR	0.00038				Sensitivity Evaluation	
Cesium-134	NR					False Positive Test	
Cesium-137	9.70E-01	0.986	A		-1.6	0.690 - 1.282	1.80E-01 W
Cobalt-57	NR	4.47				3.13 - 5.81	
Cobalt-60	2.60E+00	2.30	A		13.0	1.61 - 2.99	3.66E-01 A
Manganese-54	3.03E+00	3.10	A		-2.3	2.17 - 4.03	5.63E-01 W
Plutonium-238	NR	0.0366				0.0256 - 0.0476	
Plutonium-239/240	NR	0.0371				0.0260 - 0.0482	
Strontium-90	NR	1.43				1.00 - 1.86	
Uranium-234	NR	0.115				0.081 - 0.150	
Uranium-238	NR	0.119				0.083 - 0.155	
Zinc-65	9.86E+00	9.29	A		6.1	6.50 - 12.08	2.33 W

Radiological Reference Date: August 1, 2025

Results Flags:

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

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

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

RW = Report Warning

NR = Not Reported

Uncertainty Flags:

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

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

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

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

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

Notes:

(1) = False Positive

(4) = Sensitivity Evaluation

(11) = False Positive Test, Result Not Reported

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

(28) = Not Reporting Previously Reported Analyte

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



Laboratory Results For MAPEP-25-RdV53

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

Inorganic						Units: (ug/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Flag
Uranium-235	NR	0.069				0.048 - 0.090	
Uranium-238	NR	9.6				6.7 - 12.5	
Uranium-Total	NR	9.6				6.7 - 12.5	

Radiological						Units: (Bq/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Flag
Americium-241	0.021	0.00038	A	(17)		Sensitivity Evaluation	0.227
Cesium-134	0.024		A			False Positive Test	0.175
Cesium-137	1.016	0.986	A		3.0	0.690 - 1.282	0.063 A
Cobalt-57	5.23	4.47	A		17.0	3.13 - 5.81	0.167 A
Cobalt-60	2.433	2.30	A		5.8	1.61 - 2.99	0.063 A
Manganese-54	3.34	3.10	A		7.7	2.17 - 4.03	0.144 A
Plutonium-238	0.024	0.0366	N		-34.4	0.0256 - 0.0476	0.03 N
Plutonium-239/240	0.023	0.0371	N		-38.0	0.0260 - 0.0482	0.03 N
Strontium-90	0.93	1.43	N		-35.0	1.00 - 1.86	0.1 A
Uranium-234	0.049	0.115	N		-57.4	0.081 - 0.150	0.03 N
Uranium-238	0.049	0.119	N		-58.8	0.083 - 0.155	0.03 N
Zinc-65	10.3	9.29	A		10.9	6.50 - 12.08	0.304 A

Radiological Reference Date: August 1, 2025

Results Flags:

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

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

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

RW = Report Warning

NR = Not Reported

Uncertainty Flags:

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

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

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

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

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

Notes:

(1) = False Positive

(4) = Sensitivity Evaluation

(11) = False Positive Test, Result Not Reported

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

(28) = Not Reporting Previously Reported Analyte

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



Laboratory Results For MAPEP-25-RdV53

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

Inorganic						Units: (ug/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Flag
Uranium-235	NR	0.069				0.048 - 0.090	
Uranium-238	NR	9.6				6.7 - 12.5	
Uranium-Total	NR	9.6				6.7 - 12.5	

Radiological						Units: (Bq/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Flag
Americium-241	-0.005	0.00038	A	(17)		Sensitivity Evaluation	0.084
Cesium-134	0.079		A			False Positive Test	0.079
Cesium-137	1.06	0.986	A		7.5	0.690 - 1.282	0.21 W
Cobalt-57	5.2	4.47	A		16.3	3.13 - 5.81	0.13 A
Cobalt-60	2.39	2.30	A		3.9	1.61 - 2.99	0.043 N
Manganese-54	3.42	3.10	A		10.3	2.17 - 4.03	0.078 A
Plutonium-238	NR	0.0366				0.0256 - 0.0476	
Plutonium-239/240	NR	0.0371				0.0260 - 0.0482	
Strontium-90	NR	1.43				1.00 - 1.86	
Uranium-234	NR	0.115				0.081 - 0.150	
Uranium-238	0.072	0.119	N		-39.5	0.083 - 0.155	0.361 N
Zinc-65	10.513	9.29	A		13.2	6.50 - 12.08	0.238 A

Radiological Reference Date: August 1, 2025

Results Flags:

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

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

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

RW = Report Warning

NR = Not Reported

Uncertainty Flags:

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

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

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

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

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

Notes:

(1) = False Positive

(4) = Sensitivity Evaluation

(11) = False Positive Test, Result Not Reported

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

(28) = Not Reporting Previously Reported Analyte

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



Laboratory Results For MAPEP-25-RdV53

(GENE01) GEL Laboratories, LLC

2040 Savage Road

Charleston, SC 29407

Inorganic						Units: (ug/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Flag
Uranium-235	NR	0.069				0.048 - 0.090	
Uranium-238	NR	9.6				6.7 - 12.5	
Uranium-Total	NR	9.6				6.7 - 12.5	

Radiological						Units: (Bq/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Flag
Americium-241	-0.000308	0.00038	A	(17)		Sensitivity Evaluation	0.000295
Cesium-134	0.00315		A			False Positive Test	0.0378
Cesium-137	1.12	0.986	A		13.6	0.690 - 1.282	0.0871 A
Cobalt-57	4.91	4.47	A		9.8	3.13 - 5.81	0.237 A
Cobalt-60	2.42	2.30	A		5.2	1.61 - 2.99	0.142 A
Manganese-54	3.30	3.10	A		6.5	2.17 - 4.03	0.201 A
Plutonium-238	0.0400	0.0366	A		9.3	0.0256 - 0.0476	0.00206 A
Plutonium-239/240	0.0377	0.0371	A		1.6	0.0260 - 0.0482	0.00197 A
Strontium-90	1.42	1.43	A		-0.7	1.00 - 1.86	0.0445 A
Uranium-234	0.1110	0.115	A		-3.5	0.081 - 0.150	0.00563 A
Uranium-238	0.1170	0.119	A		-1.7	0.083 - 0.155	0.00557 A
Zinc-65	10.4	9.29	A		11.9	6.50 - 12.08	0.536 A

Radiological Reference Date: August 1, 2025

Results Flags:

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

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

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

RW = Report Warning

NR = Not Reported

Uncertainty Flags:

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

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

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

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

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

Notes:

(1) = False Positive

(4) = Sensitivity Evaluation

(11) = False Positive Test, Result Not Reported

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

(28) = Not Reporting Previously Reported Analyte

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



Laboratory Results For MAPEP-25-RdV53

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

Inorganic						Units: (ug/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Uranium-235	NR	0.069				0.048 - 0.090	
Uranium-238	NR	9.6				6.7 - 12.5	
Uranium-Total	NR	9.6				6.7 - 12.5	

Radiological						Units: (Bq/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Americium-241	NR	0.00038				Sensitivity Evaluation	
Cesium-134	-0.03		A			False Positive Test	0.16
Cesium-137	1.1	0.986	A		11.6	0.690 - 1.282	0.18 W
Cobalt-57	4.93	4.47	A		10.3	3.13 - 5.81	0.41 A
Cobalt-60	2.37	2.30	A		3.0	1.61 - 2.99	0.22 A
Manganese-54	3.45	3.10	A		11.3	2.17 - 4.03	0.35 A
Plutonium-238	NR	0.0366				0.0256 - 0.0476	
Plutonium-239/240	NR	0.0371				0.0260 - 0.0482	
Strontium-90	NR	1.43				1.00 - 1.86	
Uranium-234	NR	0.115				0.081 - 0.150	
Uranium-238	NR	0.119				0.083 - 0.155	
Zinc-65	10.03	9.29	A		8.0	6.50 - 12.08	0.93 A

Radiological Reference Date: August 1, 2025

Results Flags:

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

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

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

RW = Report Warning

NR = Not Reported

Uncertainty Flags:

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

A = ACCEPTABLE.....2% ≤ RP ≤ 15%

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

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

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

Notes:

(1) = False Positive

(4) = Sensitivity Evaluation

(11) = False Positive Test, Result Not Reported

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

(28) = Not Reporting Previously Reported Analyte

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



Laboratory Results For MAPEP-25-RdV53
(HECR01) SC Department of Environmental Services
8231 Parklane Road
Columbia, SC 29223

Inorganic						Units: (ug/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Uranium-235	NR	0.069				0.048 - 0.090	
Uranium-238	NR	9.6				6.7 - 12.5	
Uranium-Total	NR	9.6				6.7 - 12.5	

Radiological						Units: (Bq/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Americium-241	NR	0.00038				Sensitivity Evaluation	
Cesium-134	-0.2254		A			False Positive Test	0.1970
Cesium-137	0.8910	0.986	A		-9.6	0.690 - 1.282	0.1889 W
Cobalt-57	3.610	4.47	A		-19.2	3.13 - 5.81	0.3069 A
Cobalt-60	2.167	2.30	A		-5.8	1.61 - 2.99	0.2157 A
Manganese-54	2.833	3.10	A		-8.6	2.17 - 4.03	0.4071 A
Plutonium-238	NR	0.0366				0.0256 - 0.0476	
Plutonium-239/240	NR	0.0371				0.0260 - 0.0482	
Strontium-90	NR	1.43				1.00 - 1.86	
Uranium-234	NR	0.115				0.081 - 0.150	
Uranium-238	NR	0.119				0.083 - 0.155	
Zinc-65	8.788	9.29	A		-5.4	6.50 - 12.08	1.608 W

Radiological Reference Date: August 1, 2025

Results Flags:

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

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

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

RW = Report Warning

NR = Not Reported

Uncertainty Flags:

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

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

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

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

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

Notes:

(1) = False Positive

(4) = Sensitivity Evaluation

(11) = False Positive Test, Result Not Reported

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

(28) = Not Reporting Previously Reported Analyte

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



Laboratory Results For MAPEP-25-RdV53

(HPAC99) UKHSA, RCE Glasgow

155 Hardgate Road

Glasgow, Scotland G51 4LS

Inorganic						Units: (ug/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Flag
Uranium-235	NR	0.069				0.048 - 0.090	
Uranium-238	NR	9.6				6.7 - 12.5	
Uranium-Total	NR	9.6				6.7 - 12.5	

Radiological						Units: (Bq/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Flag
Americium-241	NR	0.00038				Sensitivity Evaluation	
Cesium-134	0.09		A			False Positive Test	0.09
Cesium-137	1.25	0.986	W		26.8	0.690 - 1.282	0.08 A
Cobalt-57	5.16	4.47	A		15.4	3.13 - 5.81	0.40 A
Cobalt-60	2.58	2.30	A		12.2	1.61 - 2.99	0.15 A
Manganese-54	3.59	3.10	A		15.8	2.17 - 4.03	0.21 A
Plutonium-238	NR	0.0366				0.0256 - 0.0476	
Plutonium-239/240	NR	0.0371				0.0260 - 0.0482	
Strontium-90	1.41	1.43	A		-1.4	1.00 - 1.86	0.06 A
Uranium-234	0.142	0.115	W		23.5	0.081 - 0.150	0.008 A
Uranium-238	0.146	0.119	W		22.7	0.083 - 0.155	0.008 A
Zinc-65	10.5	9.29	A		13.0	6.50 - 12.08	0.80 A

Radiological Reference Date: August 1, 2025

Results Flags:

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

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

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

RW = Report Warning

NR = Not Reported

Uncertainty Flags:

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

A = ACCEPTABLE.....2% ≤ RP ≤ 15%

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

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

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

Notes:

(1) = False Positive

(4) = Sensitivity Evaluation

(11) = False Positive Test, Result Not Reported

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

(28) = Not Reporting Previously Reported Analyte

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



Laboratory Results For MAPEP-25-RdV53

(IDOH01) Indiana Department of Health

550 W 16th St

Indianapolis, IN 46202

Inorganic						Units: (ug/sample)		
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Uranium-235	NR	0.069				0.048 - 0.090		
Uranium-238	NR	9.6				6.7 - 12.5		
Uranium-Total	NR	9.6				6.7 - 12.5		

Radiological					Units: (Bq/sample)			
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	NR	0.00038				Sensitivity Evaluation		
Cesium-134	NR					False Positive Test		
Cesium-137	1.36	0.986	N		37.9	0.690 - 1.282	0.07	A
Cobalt-57	6.74	4.47	N		50.8	3.13 - 5.81	.161	A
Cobalt-60	3.27	2.30	N		42.2	1.61 - 2.99	.09	A
Manganese-54	4.36	3.10	N		40.6	2.17 - 4.03	.144	A
Plutonium-238	NR	0.0366				0.0256 - 0.0476		
Plutonium-239/240	NR	0.0371				0.0260 - 0.0482		
Strontium-90	NR	1.43				1.00 - 1.86		
Uranium-234	NR	0.115				0.081 - 0.150		
Uranium-238	NR	0.119				0.083 - 0.155		
Zinc-65	13.4	9.29	N		44.2	6.50 - 12.08	.411	A

Radiological Reference Date: August 1, 2025

Results Flags:

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

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

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

RW = Report Warning

NR = Not Reported

Uncertainty Flags:

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

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Notes:

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(4) = Sensitivity Evaluation

(11) = False Positive Test, Result Not Reported

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

(28) = Not Reporting Previously Reported Analyte

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



Laboratory Results For MAPEP-25-RdV53

(IEMA01) Illinois Emergency Management Agency Radiochemistry Laboratory

1301 Knotts St.

Springfield, IL 62703

Inorganic						Units: (ug/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Flag
Uranium-235	NR	0.069				0.048 - 0.090	
Uranium-238	NR	9.6				6.7 - 12.5	
Uranium-Total	NR	9.6				6.7 - 12.5	

Radiological						Units: (Bq/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Flag
Americium-241	0.000563	0.00038	A	(17)		Sensitivity Evaluation	0.000283
Cesium-134	0.00374		A			False Positive Test	0.111
Cesium-137	1.06	0.986	A		7.5	0.690 - 1.282	0.138 A
Cobalt-57	4.44	4.47	A		-0.7	3.13 - 5.81	0.113 A
Cobalt-60	2.19	2.30	A		-4.8	1.61 - 2.99	0.104 A
Manganese-54	3.17	3.10	A		2.3	2.17 - 4.03	0.167 A
Plutonium-238	0.0427	0.0366	A		16.7	0.0256 - 0.0476	0.0023 A
Plutonium-239/240	0.0422	0.0371	A		13.7	0.0260 - 0.0482	0.0023 A
Strontium-90	1.395	1.43	A		-2.4	1.00 - 1.86	0.034 A
Uranium-234	0.1164	0.115	A		1.2	0.081 - 0.150	0.0045 A
Uranium-238	0.1140	0.119	A		-4.2	0.083 - 0.155	0.0044 A
Zinc-65	9.05	9.29	A		-2.6	6.50 - 12.08	0.428 A

Radiological Reference Date: August 1, 2025

Results Flags:

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

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

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

RW = Report Warning

NR = Not Reported

Uncertainty Flags:

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

A = ACCEPTABLE.....2% ≤ RP ≤ 15%

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

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

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

Notes:

(1) = False Positive

(4) = Sensitivity Evaluation

(11) = False Positive Test, Result Not Reported

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

(28) = Not Reporting Previously Reported Analyte

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



Laboratory Results For MAPEP-25-RdV53
(ISUE01) ISU Environmental Monitoring Laboratory
785 5th 8th Ave Rm B107
Pocatello, Idaho 83209

Inorganic						Units: (ug/sample)		
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Uranium-235	NR	0.069				0.048 - 0.090		
Uranium-238	NR	9.6				6.7 - 12.5		
Uranium-Total	NR	9.6				6.7 - 12.5		

Radiological						Units: (Bq/sample)		
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	NR	0.00038				Sensitivity Evaluation		
Cesium-134	0.03		A			False Positive Test		0.02
Cesium-137	1.08	0.986	A		9.5	0.690 - 1.282	0.06	A
Cobalt-57	4.80	4.47	A		7.4	3.13 - 5.81	0.14	A
Cobalt-60	2.49	2.30	A		8.3	1.61 - 2.99	0.07	A
Manganese-54	3.36	3.10	A		8.4	2.17 - 4.03	0.11	A
Plutonium-238	NR	0.0366				0.0256 - 0.0476		
Plutonium-239/240	NR	0.0371				0.0260 - 0.0482		
Strontium-90	NR	1.43				1.00 - 1.86		
Uranium-234	NR	0.115				0.081 - 0.150		
Uranium-238	NR	0.119				0.083 - 0.155		
Zinc-65	10.19	9.29	A		9.7	6.50 - 12.08	0.33	A

Radiological Reference Date: August 1, 2025

Results Flags:

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

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

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

RW = Report Warning

NR = Not Reported

Uncertainty Flags:

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

A = ACCEPTABLE.....2% ≤ RP ≤ 15%

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

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

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

Notes:

(1) = False Positive

(4) = Sensitivity Evaluation

(11) = False Positive Test, Result Not Reported

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

(28) = Not Reporting Previously Reported Analyte

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



Laboratory Results For MAPEP-25-RdV53
(JNRC99) Energy and Mineral Regulatory Commission
Radiological laboratories directorate
Amman, Amman 11821

Inorganic						Units: (ug/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Uranium-235	NR	0.069				0.048 - 0.090	
Uranium-238	NR	9.6				6.7 - 12.5	
Uranium-Total	NR	9.6				6.7 - 12.5	

Radiological						Units: (Bq/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Americium-241	NR	0.00038				Sensitivity Evaluation	
Cesium-134	NR					False Positive Test	
Cesium-137	2.40	0.986	N		143.4	0.690 - 1.282	0.05 A
Cobalt-57	11	4.47	N		146.1	3.13 - 5.81	0.07 N
Cobalt-60	5	2.30	N		117.4	1.61 - 2.99	0.05 N
Manganese-54	7.20	3.10	N		132.3	2.17 - 4.03	0.07 N
Plutonium-238	NR	0.0366				0.0256 - 0.0476	
Plutonium-239/240	NR	0.0371				0.0260 - 0.0482	
Strontium-90	NR	1.43				1.00 - 1.86	
Uranium-234	NR	0.115				0.081 - 0.150	
Uranium-238	NR	0.119				0.083 - 0.155	
Zinc-65	22	9.29	N		136.8	6.50 - 12.08	0.2 N

Radiological Reference Date: August 1, 2025

Results Flags:

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

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

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

RW = Report Warning

NR = Not Reported

Uncertainty Flags:

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

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

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

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

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

Notes:

(1) = False Positive

(4) = Sensitivity Evaluation

(11) = False Positive Test, Result Not Reported

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

(28) = Not Reporting Previously Reported Analyte

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



Laboratory Results For MAPEP-25-RdV53

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

INL/Battelle Energy Alliance, LLC

Idaho Falls, ID 83415-7111

Inorganic						Units: (ug/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Uranium-235	NR	0.069				0.048 - 0.090	
Uranium-238	NR	9.6				6.7 - 12.5	
Uranium-Total	NR	9.6				6.7 - 12.5	

Radiological						Units: (Bq/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Americium-241	NR	0.00038				Sensitivity Evaluation	
Cesium-134	-0.06		A			False Positive Test	0.19
Cesium-137	1.46	0.986	N		48.1	0.690 - 1.282	0.17 A
Cobalt-57	4.41	4.47	A		-1.3	3.13 - 5.81	0.13 A
Cobalt-60	2.68	2.30	A		16.5	1.61 - 2.99	0.15 A
Manganese-54	3.36	3.10	A		8.4	2.17 - 4.03	0.2 A
Plutonium-238	NR	0.0366				0.0256 - 0.0476	
Plutonium-239/240	NR	0.0371				0.0260 - 0.0482	
Strontium-90	NR	1.43				1.00 - 1.86	
Uranium-234	NR	0.115				0.081 - 0.150	
Uranium-238	NR	0.119				0.083 - 0.155	
Zinc-65	10.26	9.29	A		10.4	6.50 - 12.08	0.49 A

Radiological Reference Date: August 1, 2025

Results Flags:

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

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

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

RW = Report Warning

NR = Not Reported

Uncertainty Flags:

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

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

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

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

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

Notes:

(1) = False Positive

(4) = Sensitivity Evaluation

(11) = False Positive Test, Result Not Reported

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

(28) = Not Reporting Previously Reported Analyte

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



Laboratory Results For MAPEP-25-RdV53

(NARL01) National Analytical Radiation Environmental Laboratory

540 S. Morris Ave.

Montgomery, AL 36115-2601

Inorganic						Units: (ug/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Flag
Uranium-235	NR	0.069				0.048 - 0.090	
Uranium-238	NR	9.6				6.7 - 12.5	
Uranium-Total	NR	9.6				6.7 - 12.5	

Radiological						Units: (Bq/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Flag
Americium-241	.000465	0.00038	A	(17)		Sensitivity Evaluation	.000501
Cesium-134	-.00421		A			False Positive Test	.0568
Cesium-137	1.03	0.986	A		4.5	0.690 - 1.282	.0791 A
Cobalt-57	4.86	4.47	A		8.7	3.13 - 5.81	.278 A
Cobalt-60	2.24	2.30	A		-2.6	1.61 - 2.99	.134 A
Manganese-54	3.26	3.10	A		5.2	2.17 - 4.03	0.2 A
Plutonium-238	.0365	0.0366	A		-0.3	0.0256 - 0.0476	.00349 A
Plutonium-239/240	.0361	0.0371	A		-2.7	0.0260 - 0.0482	.00346 A
Strontium-90	NR	1.43				1.00 - 1.86	
Uranium-234	NR	0.115				0.081 - 0.150	
Uranium-238	NR	0.119				0.083 - 0.155	
Zinc-65	9.74	9.29	A		4.8	6.50 - 12.08	.578 A

Radiological Reference Date: August 1, 2025

Results Flags:

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

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

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

RW = Report Warning

NR = Not Reported

Uncertainty Flags:

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

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

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

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

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

Notes:

(1) = False Positive

(4) = Sensitivity Evaluation

(11) = False Positive Test, Result Not Reported

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

(28) = Not Reporting Previously Reported Analyte

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



Laboratory Results For MAPEP-25-RdV53
(NJDH01) New Jersey Dept. of Health, ECLS
3 Schwarzkopf Drive
Ewing, NJ 08628

Inorganic						Units: (ug/sample)		
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Uranium-235	NR	0.069				0.048 - 0.090		
Uranium-238	NR	9.6				6.7 - 12.5		
Uranium-Total	NR	9.6				6.7 - 12.5		

Radiological					Units: (Bq/sample)			
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	NR	0.00038				Sensitivity Evaluation		
Cesium-134	0.019		A			False Positive Test		0.11
Cesium-137	1.45	0.986	N		47.1	0.690 - 1.282	0.18	A
Cobalt-57	5.9	4.47	N		32.0	3.13 - 5.81	0.24	A
Cobalt-60	2.85	2.30	W		23.9	1.61 - 2.99	0.25	A
Manganese-54	3.91	3.10	W		26.1	2.17 - 4.03	0.31	A
Plutonium-238	NR	0.0366				0.0256 - 0.0476		
Plutonium-239/240	NR	0.0371				0.0260 - 0.0482		
Strontium-90	NR	1.43				1.00 - 1.86		
Uranium-234	NR	0.115				0.081 - 0.150		
Uranium-238	NR	0.119				0.083 - 0.155		
Zinc-65	11.4	9.29	W		22.7	6.50 - 12.08	0.71	A

Radiological Reference Date: August 1, 2025

Results Flags:

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

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

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

RW = Report Warning

NR = Not Reported

Uncertainty Flags:

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

A = ACCEPTABLE.....2% ≤ RP ≤ 15%

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

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

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

Notes:

(1) = False Positive

(4) = Sensitivity Evaluation

(11) = False Positive Test, Result Not Reported

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

(28) = Not Reporting Previously Reported Analyte

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



Laboratory Results For MAPEP-25-RdV53
(NOCS99) National Oceanography Centre, Southampton
GAU-Radioanalytical
Southampton, Hampshire SO14 3ZH

Inorganic						Units: (ug/sample)		
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Uranium-235	0.065	0.069	A		-5.8	0.048 - 0.090	0.004	A
Uranium-238	9.2	9.6	A		-4.2	6.7 - 12.5	0.4	A
Uranium-Total	NR	9.6				6.7 - 12.5		

Radiological						Units: (Bq/sample)		
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	0.002	0.00038	A	(17)		Sensitivity Evaluation	0.02	
Cesium-134	0.2		A			False Positive Test	2	
Cesium-137	1.10	0.986	A		11.6	0.690 - 1.282	0.05	A
Cobalt-57	4.6	4.47	A		2.9	3.13 - 5.81	0.2	A
Cobalt-60	2.5	2.30	A		8.7	1.61 - 2.99	0.1	A
Manganese-54	3.4	3.10	A		9.7	2.17 - 4.03	0.2	A
Plutonium-238	0.032	0.0366	A		-12.6	0.0256 - 0.0476	0.002	A
Plutonium-239/240	0.034	0.0371	A		-8.4	0.0260 - 0.0482	0.003	A
Strontium-90	1.43	1.43	A		0.0	1.00 - 1.86	0.09	A
Uranium-234	0.110	0.115	A		-4.3	0.081 - 0.150	0.005	A
Uranium-238	0.110	0.119	A		-7.6	0.083 - 0.155	0.005	A
Zinc-65	11.1	9.29	A		19.5	6.50 - 12.08	0.4	A

Radiological Reference Date: August 1, 2025

Results Flags:

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

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

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

RW = Report Warning

NR = Not Reported

Uncertainty Flags:

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

A = ACCEPTABLE.....2% ≤ RP ≤ 15%

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

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

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

Notes:

(1) = False Positive

(4) = Sensitivity Evaluation

(11) = False Positive Test, Result Not Reported

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

(28) = Not Reporting Previously Reported Analyte

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



Laboratory Results For MAPEP-25-RdV53
(ODHL01) Ohio Department of Health Laboratory
8995 E Main Street
Reynoldsburg, OH 43068

Inorganic						Units: (ug/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Uranium-235	NR	0.069				0.048 - 0.090	
Uranium-238	NR	9.6				6.7 - 12.5	
Uranium-Total	NR	9.6				6.7 - 12.5	

Radiological						Units: (Bq/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Americium-241	NR	0.00038				Sensitivity Evaluation	
Cesium-134	-0.00132		N	(29)		False Positive Test	0.000093
Cesium-137	1.01	0.986	A		2.4	0.690 - 1.282	0.100 A
Cobalt-57	4.89	4.47	A		9.4	3.13 - 5.81	0.364 A
Cobalt-60	2.32	2.30	A		0.9	1.61 - 2.99	0.100 A
Manganese-54	3.02	3.10	A		-2.6	2.17 - 4.03	0.215 A
Plutonium-238	NR	0.0366				0.0256 - 0.0476	
Plutonium-239/240	NR	0.0371				0.0260 - 0.0482	
Strontium-90	NR	1.43				1.00 - 1.86	
Uranium-234	NR	0.115				0.081 - 0.150	
Uranium-238	NR	0.119				0.083 - 0.155	
Zinc-65	9.09	9.29	A		-2.2	6.50 - 12.08	0.496 A

Radiological Reference Date: August 1, 2025

Results Flags:

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

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

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

RW = Report Warning

NR = Not Reported

Uncertainty Flags:

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

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

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

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

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

Notes:

(1) = False Positive

(4) = Sensitivity Evaluation

(11) = False Positive Test, Result Not Reported

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

(28) = Not Reporting Previously Reported Analyte

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



Laboratory Results For MAPEP-25-RdV53

(RPSC01) Radiation Protection Service

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

Mississauga, Ontario L4V 1W8

Inorganic						Units: (ug/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Uranium-235	NR	0.069				0.048 - 0.090	
Uranium-238	NR	9.6				6.7 - 12.5	
Uranium-Total	NR	9.6				6.7 - 12.5	

Radiological						Units: (Bq/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Americium-241	NR	0.00038				Sensitivity Evaluation	
Cesium-134	0.0745		A			False Positive Test	1.83
Cesium-137	8.41	0.986	N		752.9	0.690 - 1.282	0.597 A
Cobalt-57	35.3	4.47	N		689.7	3.13 - 5.81	1.78 A
Cobalt-60	19.2	2.30	N		734.8	1.61 - 2.99	0.667 A
Manganese-54	26.0	3.10	N		738.7	2.17 - 4.03	1.15 A
Plutonium-238	NR	0.0366				0.0256 - 0.0476	
Plutonium-239/240	NR	0.0371				0.0260 - 0.0482	
Strontium-90	NR	1.43				1.00 - 1.86	
Uranium-234	NR	0.115				0.081 - 0.150	
Uranium-238	NR	0.119				0.083 - 0.155	
Zinc-65	77.9	9.29	N		738.5	6.50 - 12.08	3.03 A

Radiological Reference Date: August 1, 2025

Results Flags:

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

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

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

RW = Report Warning

NR = Not Reported

Uncertainty Flags:

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

A = ACCEPTABLE.....2% ≤ RP ≤ 15%

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

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

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

Notes:

(1) = False Positive

(4) = Sensitivity Evaluation

(11) = False Positive Test, Result Not Reported

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

(28) = Not Reporting Previously Reported Analyte

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



Laboratory Results For MAPEP-25-RdV53
(SEML01) SRS Environmental Monitoring Laboratory
Bldg 735-B
Aiken, SC 29808

Inorganic						Units: (ug/sample)		
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Uranium-235	NR	0.069				0.048 - 0.090		
Uranium-238	NR	9.6				6.7 - 12.5		
Uranium-Total	NR	9.6				6.7 - 12.5		

Radiological					Units: (Bq/sample)			
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	0.00155	0.00038	N	(4)		Sensitivity Evaluation	0.00037	
Cesium-134	-0.107		A			False Positive Test	0.079	
Cesium-137	1.00	0.986	A		1.4	0.690 - 1.282	0.14	A
Cobalt-57	4.49	4.47	A		0.4	3.13 - 5.81	0.37	A
Cobalt-60	2.19	2.30	A		-4.8	1.61 - 2.99	0.20	A
Manganese-54	3.18	3.10	A		2.6	2.17 - 4.03	0.39	A
Plutonium-238	0.0381	0.0366	A		4.1	0.0256 - 0.0476	0.0023	A
Plutonium-239/240	0.0354	0.0371	A		-4.6	0.0260 - 0.0482	0.0022	A
Strontium-90	1.430	1.43	A		0.0	1.00 - 1.86	0.054	A
Uranium-234	0.1195	0.115	A		3.9	0.081 - 0.150	0.0062	A
Uranium-238	0.1269	0.119	A		6.6	0.083 - 0.155	0.0065	A
Zinc-65	9.88	9.29	A		6.4	6.50 - 12.08	0.97	A

Radiological Reference Date: August 1, 2025

Results Flags:

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

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

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

RW = Report Warning

NR = Not Reported

Uncertainty Flags:

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

A = ACCEPTABLE.....2% ≤ RP ≤ 15%

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

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

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

Notes:

(1) = False Positive

(4) = Sensitivity Evaluation

(11) = False Positive Test, Result Not Reported

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

(28) = Not Reporting Previously Reported Analyte

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



Laboratory Results For MAPEP-25-RdV53

(SOUT01) Southwest Research Institute

6220 Culebra Rd.

San Antonio, TX 78238-5166

Inorganic						Units: (ug/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Flag
Uranium-235	0.0690	0.069	A		0.0	0.048 - 0.090	0.0114 W
Uranium-238	10.1	9.6	A		5.2	6.7 - 12.5	1.62 W
Uranium-Total	10.1	9.6	A		5.2	6.7 - 12.5	1.62 W

Radiological						Units: (Bq/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Flag
Americium-241	0.00374	0.00038	A	(17)		Sensitivity Evaluation	0.00231
Cesium-134	-0.124		A			False Positive Test	0.127
Cesium-137	1.17	0.986	A		18.7	0.690 - 1.282	0.112 A
Cobalt-57	5.00	4.47	A		11.9	3.13 - 5.81	0.131 A
Cobalt-60	2.35	2.30	A		2.2	1.61 - 2.99	0.163 A
Manganese-54	3.70	3.10	A		19.4	2.17 - 4.03	0.180 A
Plutonium-238	0.0411	0.0366	A		12.3	0.0256 - 0.0476	0.00681 W
Plutonium-239/240	0.0441	0.0371	A		18.9	0.0260 - 0.0482	0.00704 W
Strontium-90	NR	1.43				1.00 - 1.86	
Uranium-234	0.105	0.115	A		-8.7	0.081 - 0.150	0.0116 A
Uranium-238	0.121	0.119	A		1.7	0.083 - 0.155	0.0127 A
Zinc-65	10.0	9.29	A		7.6	6.50 - 12.08	0.311 A

Radiological Reference Date: August 1, 2025

Results Flags:

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

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

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

RW = Report Warning

NR = Not Reported

Uncertainty Flags:

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

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

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

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

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

Notes:

(1) = False Positive

(4) = Sensitivity Evaluation

(11) = False Positive Test, Result Not Reported

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

(28) = Not Reporting Previously Reported Analyte

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



Laboratory Results For MAPEP-25-RdV53

(SRPD01) Sandia National Laboratories, Radiation Protection Sample Diagnostics

PO Box 5800, MS1103

Albuquerque, NM 87185-1103

Inorganic						Units: (ug/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Uranium-235	NR	0.069				0.048 - 0.090	
Uranium-238	NR	9.6				6.7 - 12.5	
Uranium-Total	NR	9.6				6.7 - 12.5	

Radiological						Units: (Bq/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Americium-241	NR	0.00038				Sensitivity Evaluation	
Cesium-134	-7.99E-02		A			False Positive Test	1.10E-01
Cesium-137	9.89E-01	0.986	A		0.3	0.690 - 1.282	1.42E-01 A
Cobalt-57	5.09E+00	4.47	A		13.9	3.13 - 5.81	5.21E-01 A
Cobalt-60	2.60E+00	2.30	A		13.0	1.61 - 2.99	2.14E-01 A
Manganese-54	3.89E+00	3.10	W		25.5	2.17 - 4.03	2.63E-01 A
Plutonium-238	NR	0.0366				0.0256 - 0.0476	
Plutonium-239/240	NR	0.0371				0.0260 - 0.0482	
Strontium-90	NR	1.43				1.00 - 1.86	
Uranium-234	NR	0.115				0.081 - 0.150	
Uranium-238	NR	0.119				0.083 - 0.155	
Zinc-65	9.88E+00	9.29	A		6.4	6.50 - 12.08	5.98E-01 A

Radiological Reference Date: August 1, 2025

Results Flags:

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

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

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

RW = Report Warning

NR = Not Reported

Uncertainty Flags:

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

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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

(4) = Sensitivity Evaluation

(11) = False Positive Test, Result Not Reported

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

(28) = Not Reporting Previously Reported Analyte

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



Laboratory Results For MAPEP-25-RdV53

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

Inorganic						Units: (ug/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Flag
Uranium-235	NR	0.069				0.048 - 0.090	
Uranium-238	NR	9.6				6.7 - 12.5	
Uranium-Total	NR	9.6				6.7 - 12.5	

Radiological						Units: (Bq/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Flag
Americium-241	0.0040	0.00038	A	(17)		Sensitivity Evaluation	0.0025
Cesium-134	-0.17		A			False Positive Test	0.28
Cesium-137	1.029	0.986	A		4.4	0.690 - 1.282	0.082 A
Cobalt-57	5.46	4.47	W		22.1	3.13 - 5.81	0.17 A
Cobalt-60	2.462	2.30	A		7.0	1.61 - 2.99	0.084 A
Manganese-54	3.21	3.10	A		3.5	2.17 - 4.03	0.14 A
Plutonium-238	0.0324	0.0366	A		-11.5	0.0256 - 0.0476	0.0073 W
Plutonium-239/240	0.0295	0.0371	W		-20.5	0.0260 - 0.0482	0.0069 W
Strontium-90	1.173	1.43	A		-18.0	1.00 - 1.86	0.034 A
Uranium-234	0.106	0.115	A		-7.8	0.081 - 0.150	0.014 A
Uranium-238	0.099	0.119	A		-16.8	0.083 - 0.155	0.013 A
Zinc-65	9.89	9.29	A		6.5	6.50 - 12.08	0.37 A

Radiological Reference Date: August 1, 2025

Results Flags:

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

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

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

RW = Report Warning

NR = Not Reported

Uncertainty Flags:

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

A = ACCEPTABLE.....2% ≤ RP ≤ 15%

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

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

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

Notes:

(1) = False Positive

(4) = Sensitivity Evaluation

(11) = False Positive Test, Result Not Reported

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

(28) = Not Reporting Previously Reported Analyte

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



Laboratory Results For MAPEP-25-RdV53

(TELE01) Teledyne Brown Engineering - Environmental Services
2508 Quality Lane
Knoxville, TN 37931-6819

Inorganic						Units: (ug/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Uranium-235	NR	0.069				0.048 - 0.090	
Uranium-238	NR	9.6				6.7 - 12.5	
Uranium-Total	NR	9.6				6.7 - 12.5	

Radiological						Units: (Bq/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Americium-241	NR	0.00038				Sensitivity Evaluation	
Cesium-134	0.1051		A			False Positive Test	0.117
Cesium-137	0.9581	0.986	A		-2.8	0.690 - 1.282	0.159 W
Cobalt-57	4.54	4.47	A		1.6	3.13 - 5.81	0.158 A
Cobalt-60	2.08	2.30	A		-9.6	1.61 - 2.99	0.151 A
Manganese-54	2.64	3.10	A		-14.8	2.17 - 4.03	0.228 A
Plutonium-238	NR	0.0366				0.0256 - 0.0476	
Plutonium-239/240	NR	0.0371				0.0260 - 0.0482	
Strontium-90	1.50	1.43	A		4.9	1.00 - 1.86	0.054 A
Uranium-234	NR	0.115				0.081 - 0.150	
Uranium-238	NR	0.119				0.083 - 0.155	
Zinc-65	8.39	9.29	A		-9.7	6.50 - 12.08	0.543 A

Radiological Reference Date: August 1, 2025

Results Flags:

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

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

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

RW = Report Warning

NR = Not Reported

Uncertainty Flags:

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

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

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

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

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

Notes:

(1) = False Positive

(4) = Sensitivity Evaluation

(11) = False Positive Test, Result Not Reported

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

(28) = Not Reporting Previously Reported Analyte

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



Laboratory Results For MAPEP-25-RdV53

(TELE02) Microbac Laboratories Inc. - Northbrook
700 Landwehr Road
Northbrook, IL 60062-

Inorganic						Units: (ug/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Flag
Uranium-235	NR	0.069				0.048 - 0.090	
Uranium-238	NR	9.6				6.7 - 12.5	
Uranium-Total	NR	9.6				6.7 - 12.5	

Radiological						Units: (Bq/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Flag
Americium-241	NR	0.00038				Sensitivity Evaluation	
Cesium-134	-0.01		A			False Positive Test	0.04
Cesium-137	0.63	0.986	N		-36.1	0.690 - 1.282	0.09 A
Cobalt-57	3.04	4.47	N		-32.0	3.13 - 5.81	0.12 A
Cobalt-60	1.49	2.30	N		-35.2	1.61 - 2.99	0.11 A
Manganese-54	2.13	3.10	N		-31.3	2.17 - 4.03	0.15 A
Plutonium-238	NR	0.0366				0.0256 - 0.0476	
Plutonium-239/240	NR	0.0371				0.0260 - 0.0482	
Strontium-90	NR	1.43				1.00 - 1.86	
Uranium-234	NR	0.115				0.081 - 0.150	
Uranium-238	NR	0.119				0.083 - 0.155	
Zinc-65	5.88	9.29	N		-36.7	6.50 - 12.08	0.38 A

Radiological Reference Date: August 1, 2025

Results Flags:

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

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

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

RW = Report Warning

NR = Not Reported

Uncertainty Flags:

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

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

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

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

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

Notes:

(1) = False Positive

(4) = Sensitivity Evaluation

(11) = False Positive Test, Result Not Reported

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

(28) = Not Reporting Previously Reported Analyte

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



Laboratory Results For MAPEP-25-RdV53
(TMAO01) EBERLINE Analytical Corporation
601 A SCARBORO RD
OAK RIDGE, TN 37830-

Inorganic						Units: (ug/sample)		
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Uranium-235	NR	0.069				0.048 - 0.090		
Uranium-238	NR	9.6				6.7 - 12.5		
Uranium-Total	NR	9.6				6.7 - 12.5		

Radiological						Units: (Bq/sample)		
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	-0.612	0.00038	A	(17)		Sensitivity Evaluation	0.633	
Cesium-134	0.056		A			False Positive Test	0.682	
Cesium-137	1.449	0.986	N		47.0	0.690 - 1.282	1.116	N
Cobalt-57	4.443	4.47	A		-0.6	3.13 - 5.81	0.734	W
Cobalt-60	2.173	2.30	A		-5.5	1.61 - 2.99	0.872	N
Manganese-54	2.833	3.10	A		-8.6	2.17 - 4.03	1.391	N
Plutonium-238	NR	0.0366				0.0256 - 0.0476		
Plutonium-239/240	NR	0.0371				0.0260 - 0.0482		
Strontium-90	1.059	1.43	W		-25.9	1.00 - 1.86	4.255	N
Uranium-234	0.115	0.115	A		0.0	0.081 - 0.150	1.115	N
Uranium-238	0.085	0.119	W		-28.6	0.083 - 0.155	0.945	N
Zinc-65	8.668	9.29	A		-6.7	6.50 - 12.08	3.458	N

Radiological Reference Date: August 1, 2025

Results Flags:

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

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

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

RW = Report Warning

NR = Not Reported

Uncertainty Flags:

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

A = ACCEPTABLE.....2% ≤ RP ≤ 15%

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

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

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

Notes:

(1) = False Positive

(4) = Sensitivity Evaluation

(11) = False Positive Test, Result Not Reported

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

(28) = Not Reporting Previously Reported Analyte

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



Laboratory Results For MAPEP-25-RdV53

(UNTE01) UniTech-235

178 Aldo Drive

Barnwell, SC 29812

Inorganic						Units: (ug/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Uranium-235	NR	0.069				0.048 - 0.090	
Uranium-238	NR	9.6				6.7 - 12.5	
Uranium-Total	NR	9.6				6.7 - 12.5	

Radiological						Units: (Bq/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Americium-241	NR	0.00038				Sensitivity Evaluation	
Cesium-134	0.2		N	(1)		False Positive Test	0.01
Cesium-137	1.03	0.986	A		4.5	0.690 - 1.282	0.35 N
Cobalt-57	3.98	4.47	A		-11.0	3.13 - 5.81	0.41 A
Cobalt-60	2.40	2.30	A		4.3	1.61 - 2.99	0.37 W
Manganese-54	2.63	3.10	A		-15.2	2.17 - 4.03	0.54 W
Plutonium-238	NR	0.0366				0.0256 - 0.0476	
Plutonium-239/240	NR	0.0371				0.0260 - 0.0482	
Strontium-90	NR	1.43				1.00 - 1.86	
Uranium-234	NR	0.115				0.081 - 0.150	
Uranium-238	NR	0.119				0.083 - 0.155	
Zinc-65	7.52	9.29	A		-19.1	6.50 - 12.08	1.11 A

Radiological Reference Date: August 1, 2025

Results Flags:

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

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

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

RW = Report Warning

NR = Not Reported

Uncertainty Flags:

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

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

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

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

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

Notes:

(1) = False Positive

(4) = Sensitivity Evaluation

(11) = False Positive Test, Result Not Reported

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

(28) = Not Reporting Previously Reported Analyte

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



Laboratory Results For MAPEP-25-RdV53
(WIPH01) WI, DPH, Radiation Protection Section
201 E Washington Ave
Madison, WI 53703

Inorganic						Units: (ug/sample)		
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Uranium-235	NR	0.069				0.048 - 0.090		
Uranium-238	NR	9.6				6.7 - 12.5		
Uranium-Total	NR	9.6				6.7 - 12.5		

Radiological						Units: (Bq/sample)		
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	-0.24	0.00038	A	(17)		Sensitivity Evaluation	0.17	
Cesium-134	0.2		A			False Positive Test	0.15	
Cesium-137	0.92	0.986	A		-6.7	0.690 - 1.282	0.08	A
Cobalt-57	4.74	4.47	A		6.0	3.13 - 5.81	0.36	A
Cobalt-60	2.34	2.30	A		1.7	1.61 - 2.99	0.09	A
Manganese-54	3.06	3.10	A		-1.3	2.17 - 4.03	0.18	A
Plutonium-238	NR	0.0366				0.0256 - 0.0476		
Plutonium-239/240	NR	0.0371				0.0260 - 0.0482		
Strontium-90	NR	1.43				1.00 - 1.86		
Uranium-234	NR	0.115				0.081 - 0.150		
Uranium-238	NR	0.119				0.083 - 0.155		
Zinc-65	8.91	9.29	A		-4.1	6.50 - 12.08	0.42	A

Radiological Reference Date: August 1, 2025

Results Flags:

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

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

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

RW = Report Warning

NR = Not Reported

Uncertainty Flags:

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

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

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

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

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

Notes:

(1) = False Positive

(4) = Sensitivity Evaluation

(11) = False Positive Test, Result Not Reported

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

(28) = Not Reporting Previously Reported Analyte

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



Laboratory Results For MAPEP-25-RdV53
(WSHL01) Wisconsin State Laboratory of Hygiene
2601 Agriculture Drive
Madison, WI 53718

Inorganic						Units: (ug/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Uranium-235	NR	0.069				0.048 - 0.090	
Uranium-238	NR	9.6				6.7 - 12.5	
Uranium-Total	NR	9.6				6.7 - 12.5	

Radiological						Units: (Bq/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Americium-241	0.003730	0.00038	N	(4)		Sensitivity Evaluation	0.000881
Cesium-134	-0.000865		A			False Positive Test	0.0385
Cesium-137	0.964	0.986	A		-2.2	0.690 - 1.282	0.0428 A
Cobalt-57	4.15	4.47	A		-7.2	3.13 - 5.81	0.131 A
Cobalt-60	2.26	2.30	A		-1.7	1.61 - 2.99	0.198 A
Manganese-54	3.02	3.10	A		-2.6	2.17 - 4.03	0.140 A
Plutonium-238	0.04067	0.0366	A		11.1	0.0256 - 0.0476	0.00290 A
Plutonium-239/240	0.03837	0.0371	A		3.4	0.0260 - 0.0482	0.00273 A
Strontium-90	NR	1.43	N	(28)		1.00 - 1.86	
Uranium-234	0.1136	0.115	A		-1.2	0.081 - 0.150	0.00658 A
Uranium-238	0.1250	0.119	A		5.0	0.083 - 0.155	0.00712 A
Zinc-65	9.20	9.29	A		-1.0	6.50 - 12.08	0.753 A

Radiological Reference Date: August 1, 2025

Results Flags:

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

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

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

RW = Report Warning

NR = Not Reported

Uncertainty Flags:

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

A = ACCEPTABLE.....2% ≤ RP ≤ 15%

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

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

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

Notes:

(1) = False Positive

(4) = Sensitivity Evaluation

(11) = False Positive Test, Result Not Reported

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

(28) = Not Reporting Previously Reported Analyte

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



Laboratory Results For MAPEP-25-RdV53

(WSTP99) Cavendish Nuclear Limited

Greson Court

Cumbria, UK CA24 3HZ

Inorganic						Units: (ug/sample)		
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Uranium-235	0.0455	0.069	N		-34.1	0.048 - 0.090	0.0014	A
Uranium-238	6.45	9.6	N		-32.8	6.7 - 12.5	0.21	A
Uranium-Total	9.29	9.6	A		-3.2	6.7 - 12.5	0.29	A

Radiological						Units: (Bq/sample)		
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	0.00067	0.00038	A	(17)		Sensitivity Evaluation	0.00031	
Cesium-134	0.019		A			False Positive Test	0.028	
Cesium-137	0.979	0.986	A		-0.7	0.690 - 1.282	0.070	A
Cobalt-57	4.94	4.47	A		10.5	3.13 - 5.81	0.15	A
Cobalt-60	2.305	2.30	A		0.2	1.61 - 2.99	0.083	A
Manganese-54	3.14	3.10	A		1.3	2.17 - 4.03	0.12	A
Plutonium-238	0.0385	0.0366	A		5.2	0.0256 - 0.0476	0.0031	A
Plutonium-239/240	0.0360	0.0371	A		-3.0	0.0260 - 0.0482	0.0029	A
Strontium-90	1.512	1.43	A		5.7	1.00 - 1.86	0.087	A
Uranium-234	0.0533	0.115	N		-53.7	0.081 - 0.150	0.0057	A
Uranium-238	0.0802	0.119	N		-32.6	0.083 - 0.155	0.0026	A
Zinc-65	9.54	9.29	A		2.7	6.50 - 12.08	0.25	A

Radiological Reference Date: August 1, 2025

Results Flags:

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

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

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

RW = Report Warning

NR = Not Reported

Uncertainty Flags:

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

A = ACCEPTABLE.....2% ≤ RP ≤ 15%

Radiological						Units: (Bq/sample)		
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag

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

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

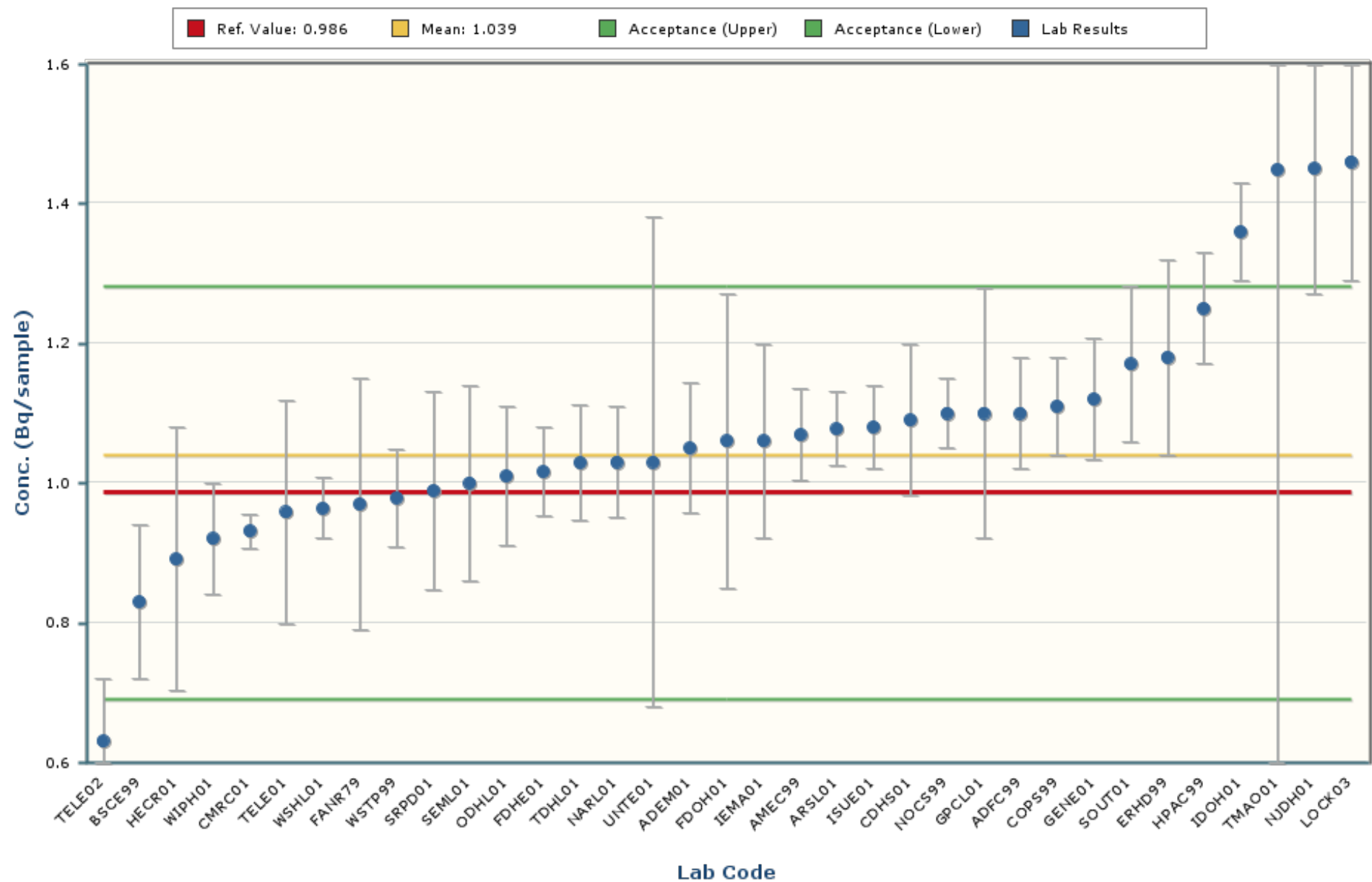
Relative Precision (RP) = (Reported Uncertainty / Reported Result) x 100

Notes:

- (1) = False Positive
- (4) = Sensitivity Evaluation
- (11) = False Positive Test, Result Not Reported
- (17) = NOT DETECTED - reported a statistically zero result
- (28) = Not Reporting Previously Reported Analyte
- (29) = Statistically significant negative value at 3 standard deviations

Cesium-137

MAPEP-25-RdV53



Notes:

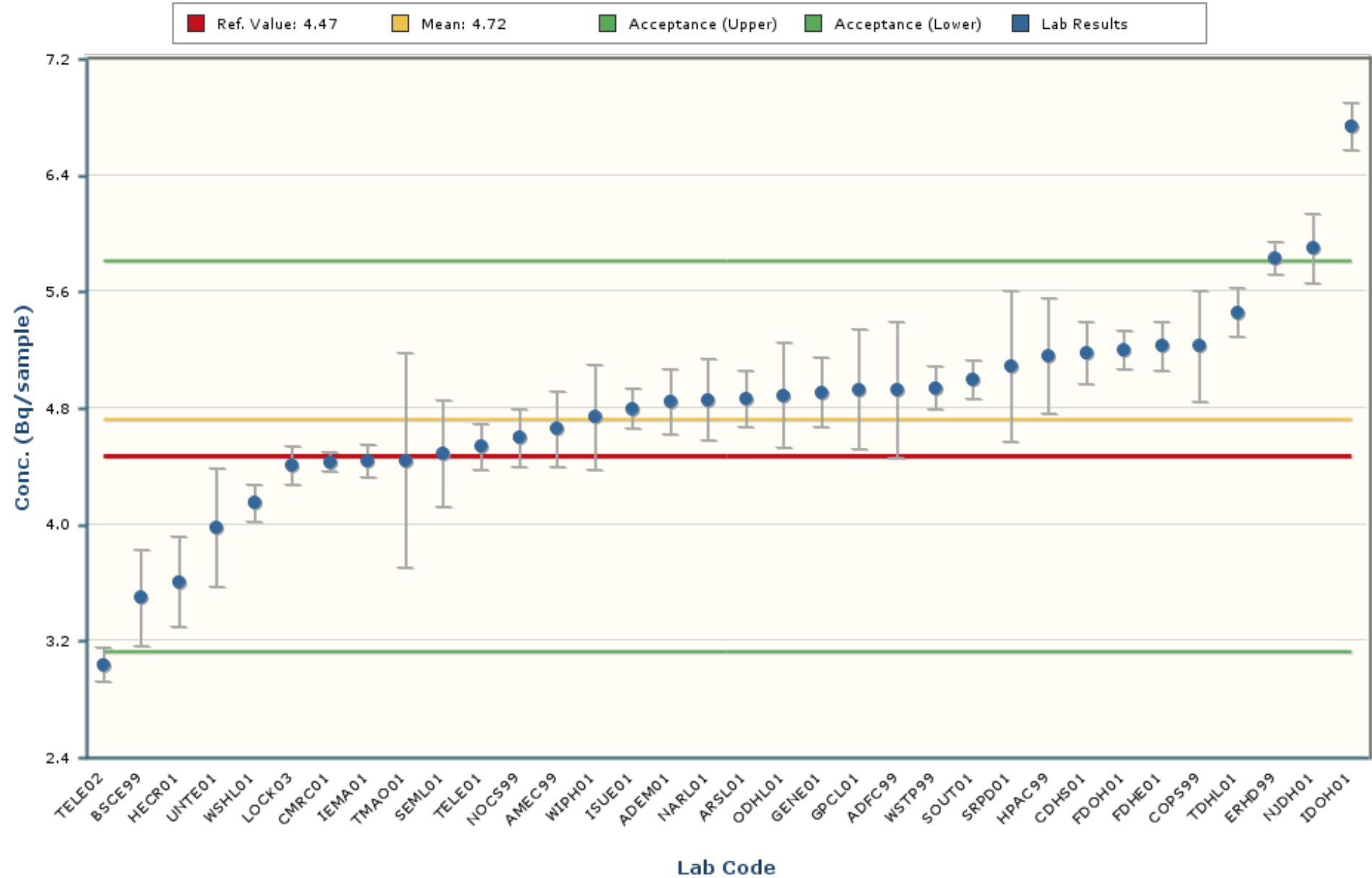
The chart mean excludes values outside of a bias range of $\pm 30\%$.

The chart shows only data points with values between 0.594 and 1.484 (± 5 Standard Deviations).

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

Cobalt-57

MAPEP-25-RdV53



Notes:

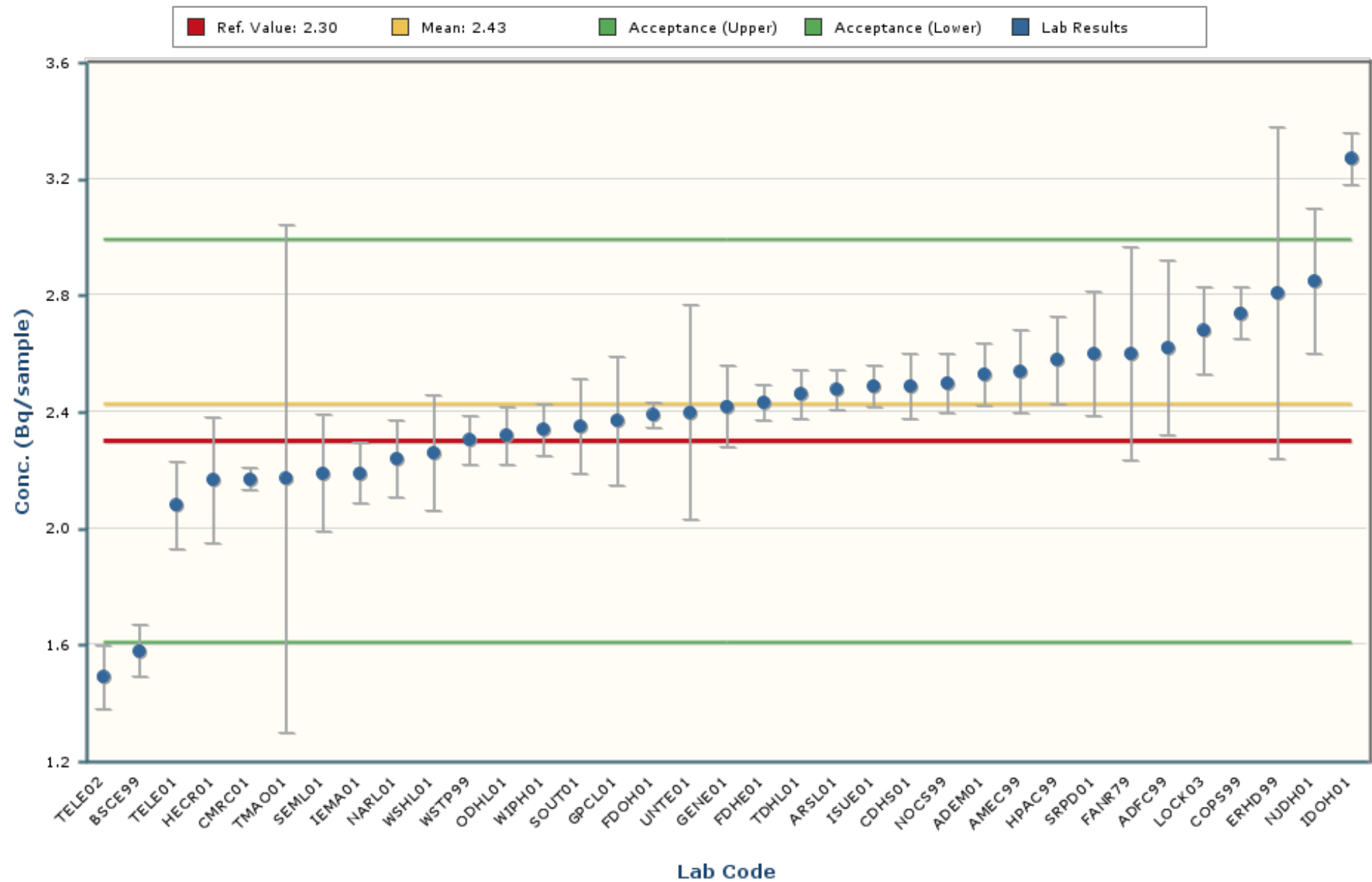
The chart mean excludes values outside of a bias range of $\pm 30\%$.

The chart shows only data points with values between 2.40 and 7.03 (± 5 Standard Deviations).

The error bars encompassing each result are plotted at ± 1 standard deviation.

Cobalt-60

MAPEP-25-RdV53



Notes:

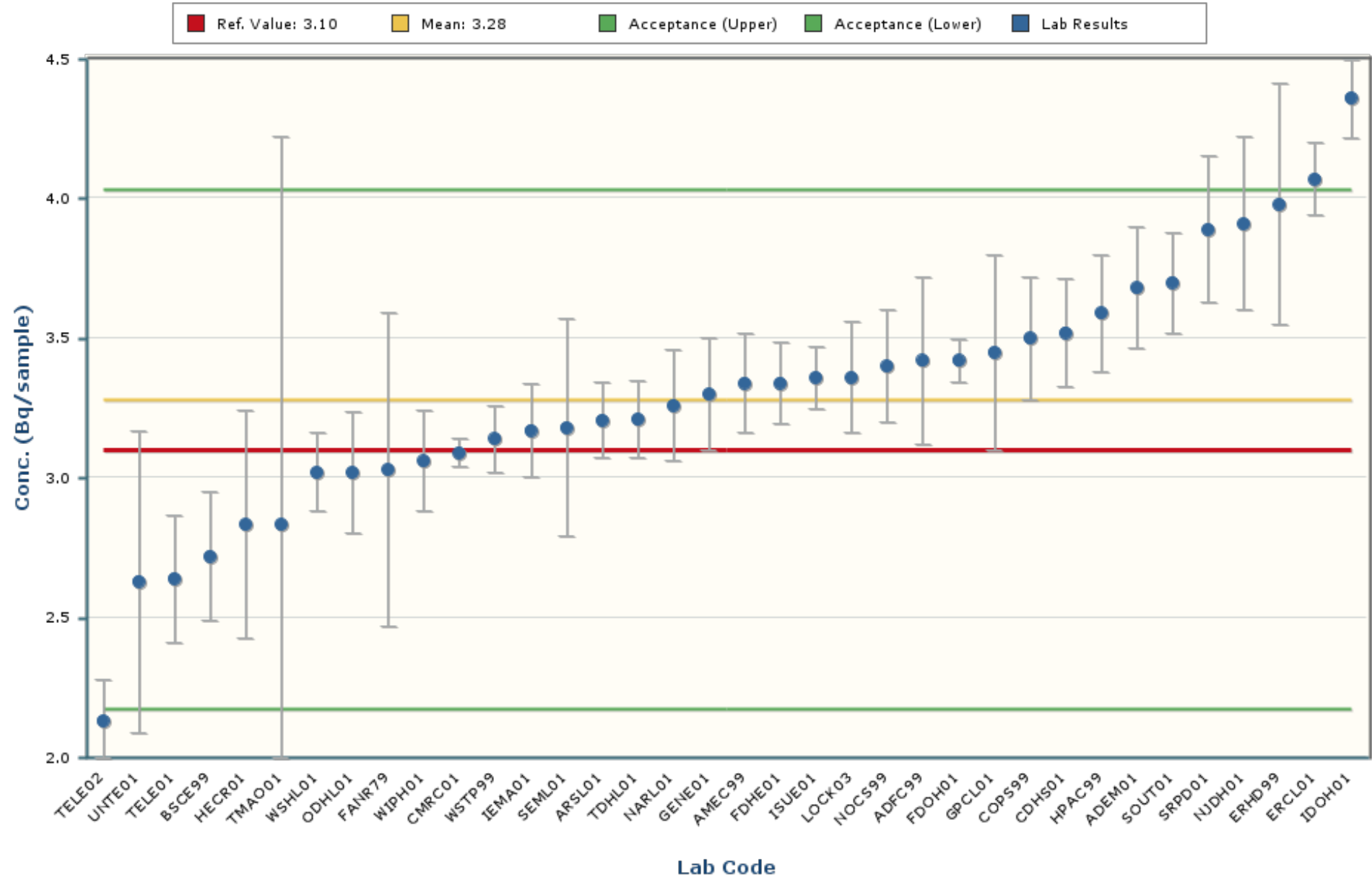
The chart mean excludes values outside of a bias range of $\pm 30\%$.

The chart shows only data points with values between 1.45 and 3.41 (± 5 Standard Deviations).

The error bars encompassing each result are plotted at ± 1 standard deviation.

Manganese-54

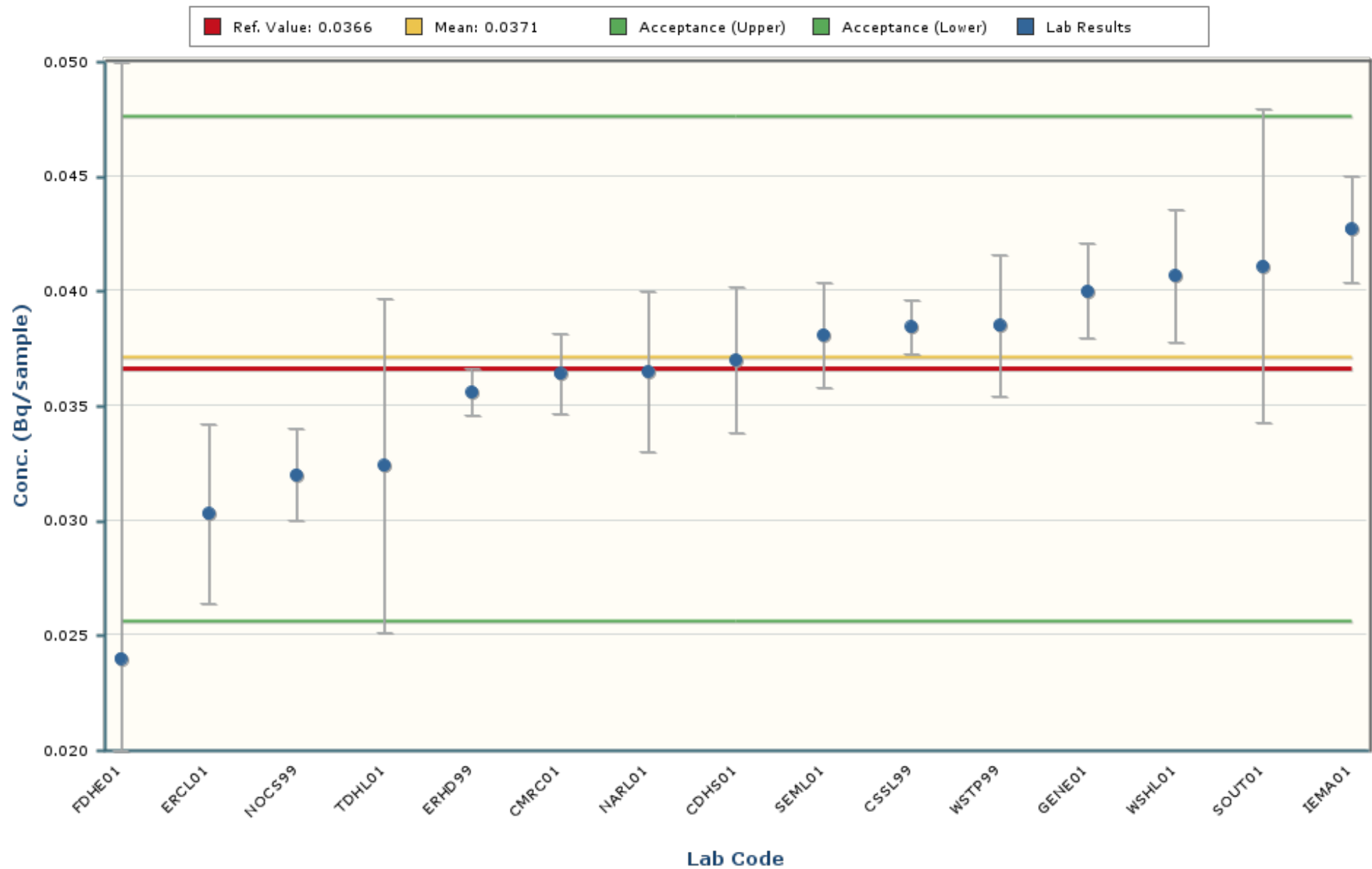
MAPEP-25-RdV53



Notes:
The chart mean excludes values outside of a bias range of $\pm 30\%$.
The chart shows only data points with values between 1.56 and 5.00 (± 5 Standard Deviations).
The error bars encompassing each result are plotted at $\pm$ one standard deviation.

Plutonium-238

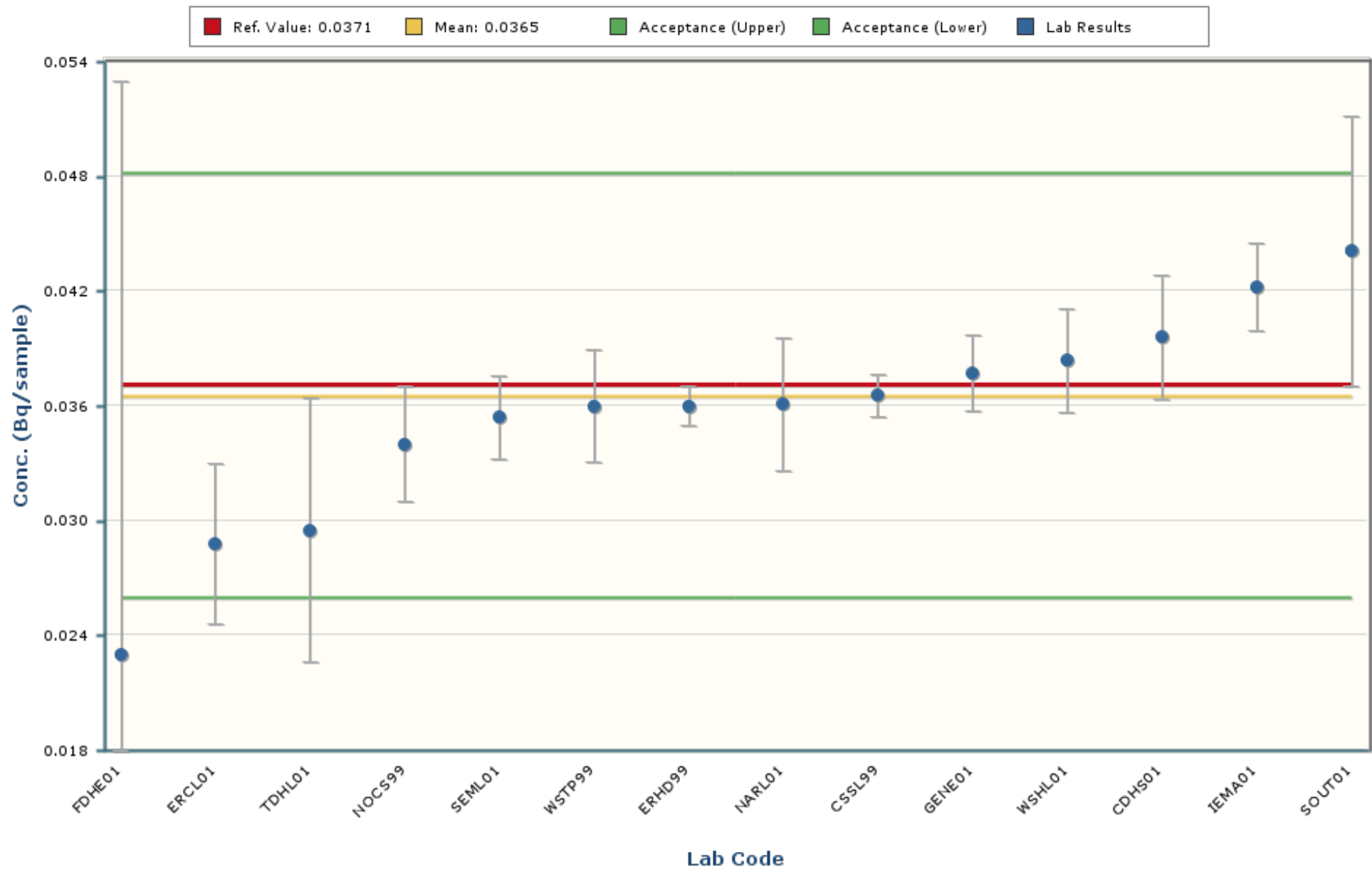
MAPEP-25-RdV53



Notes:
The chart mean excludes values outside of a bias range of $\pm 30\%$.
The chart shows only data points with values between 0.0190 and 0.0552 (± 5 Standard Deviations).
The error bars encompassing each result are plotted at $\pm$ one standard deviation.

Plutonium-239/240

MAPEP-25-RdV53



Notes:

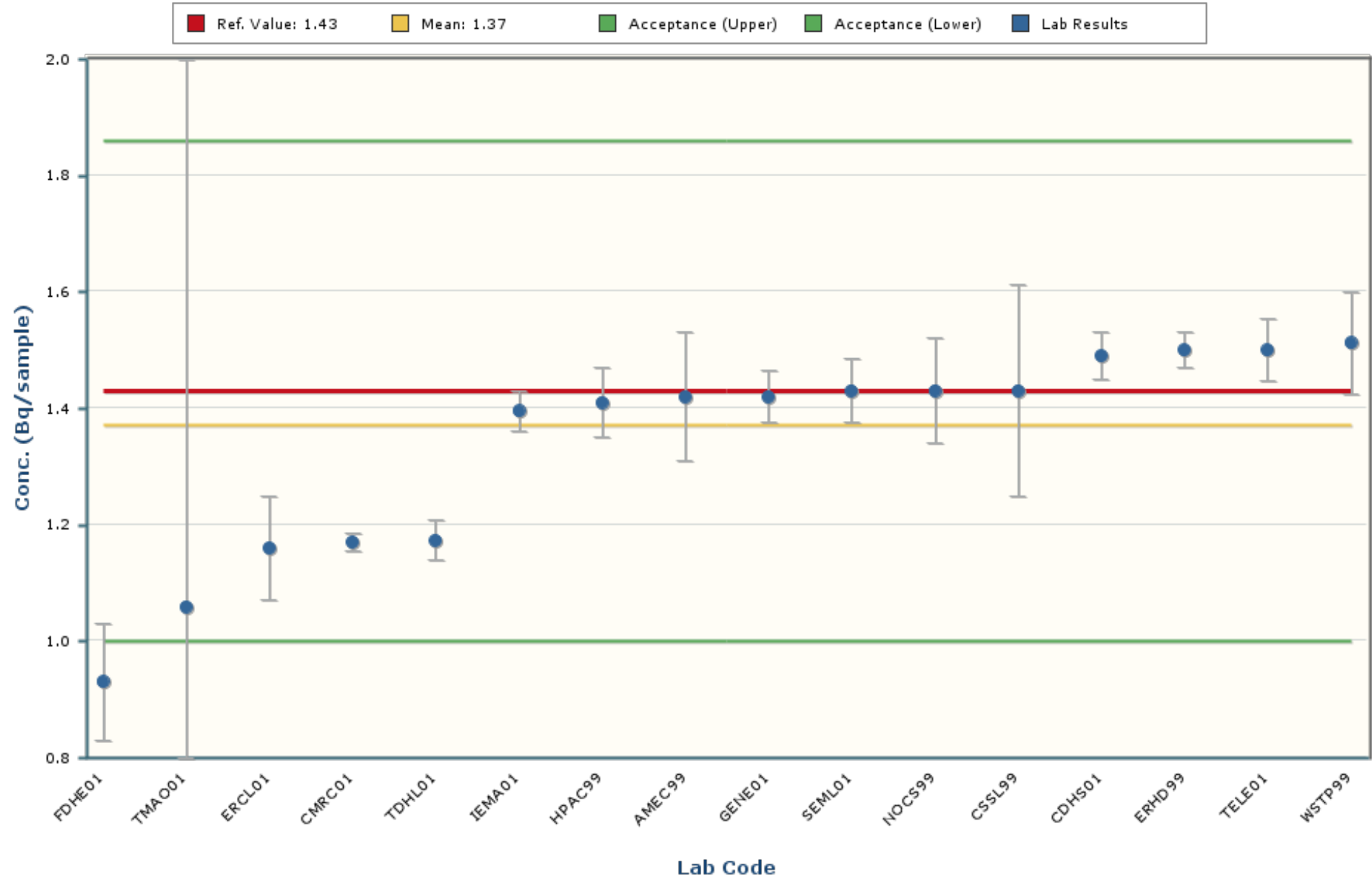
The chart mean excludes values outside of a bias range of $\pm 30\%$.

The chart shows only data points with values between 0.0150 and 0.0580 (± 5 Standard Deviations).

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

Strontium-90

MAPEP-25-RdV53



Notes:

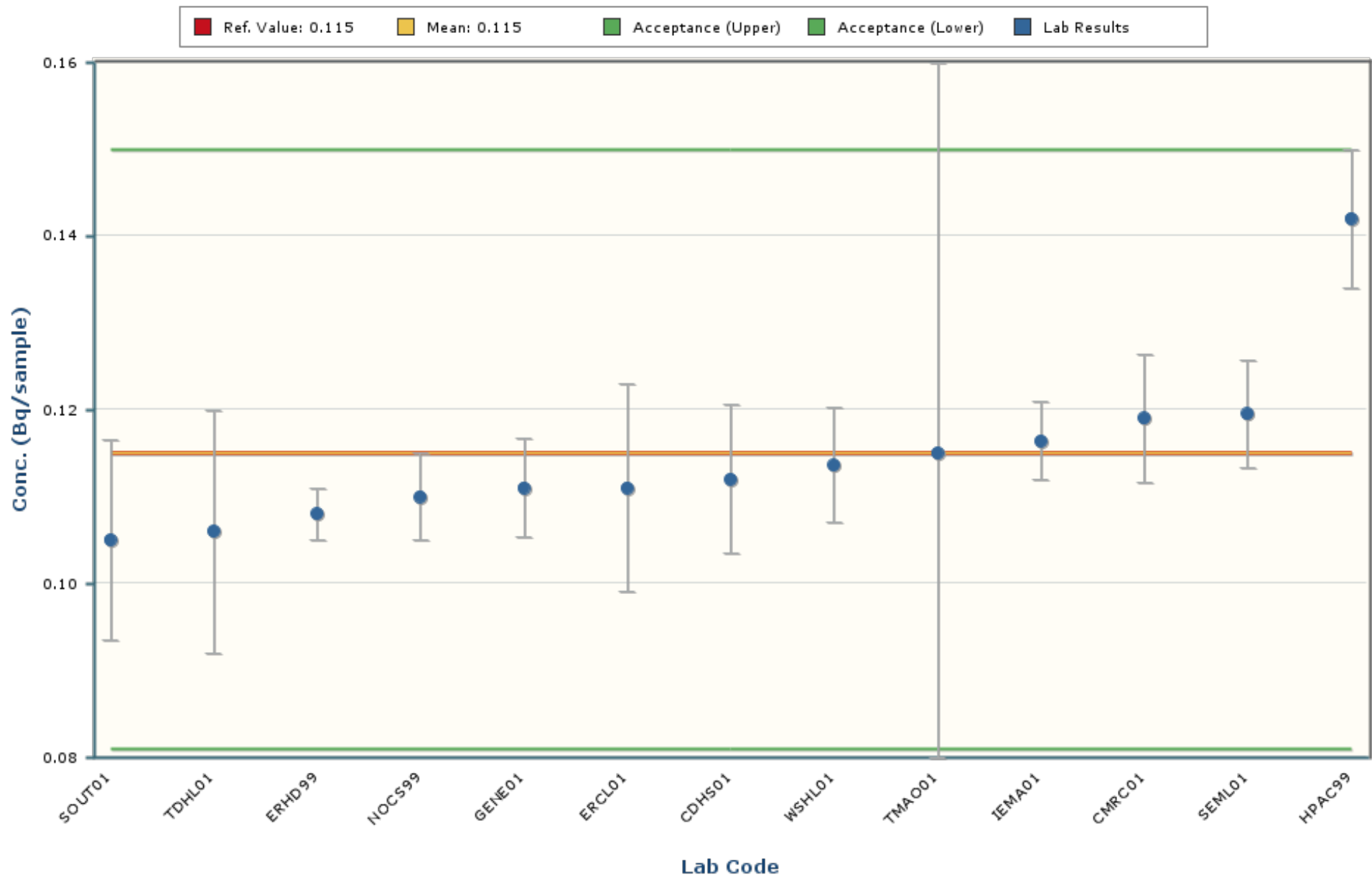
The chart mean excludes values outside of a bias range of $\pm 30\%$.

The chart shows only data points with values between 0.63 and 2.11 (± 5 Standard Deviations).

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

Uranium-234

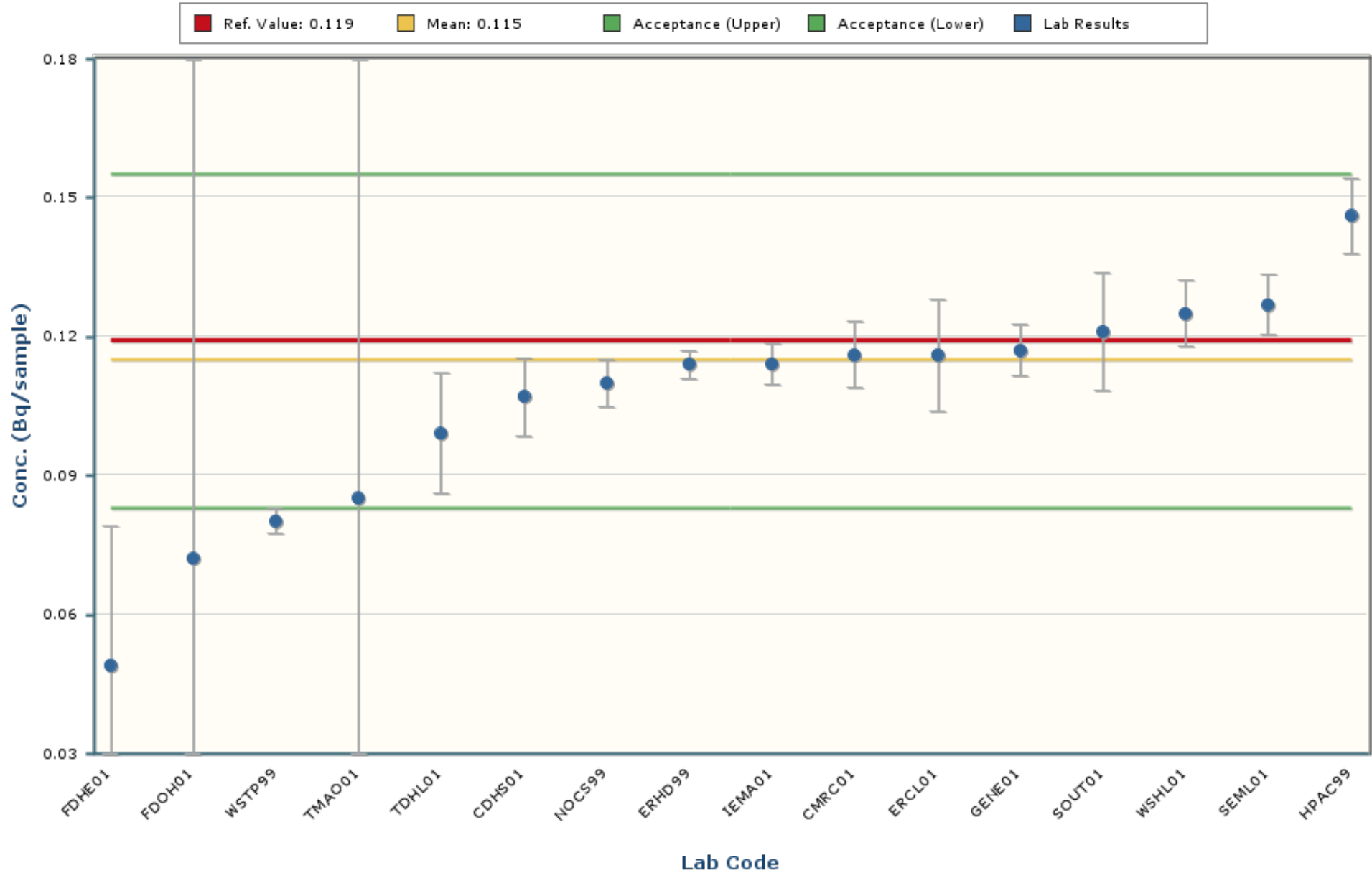
MAPEP-25-RdV53



Notes:
The chart mean excludes values outside of a bias range of $\pm 30\%$.
The chart shows only data points with values between 0.067 and 0.162 (± 5 Standard Deviations).
The error bars encompassing each result are plotted at $\pm$ one standard deviation.

Uranium-238

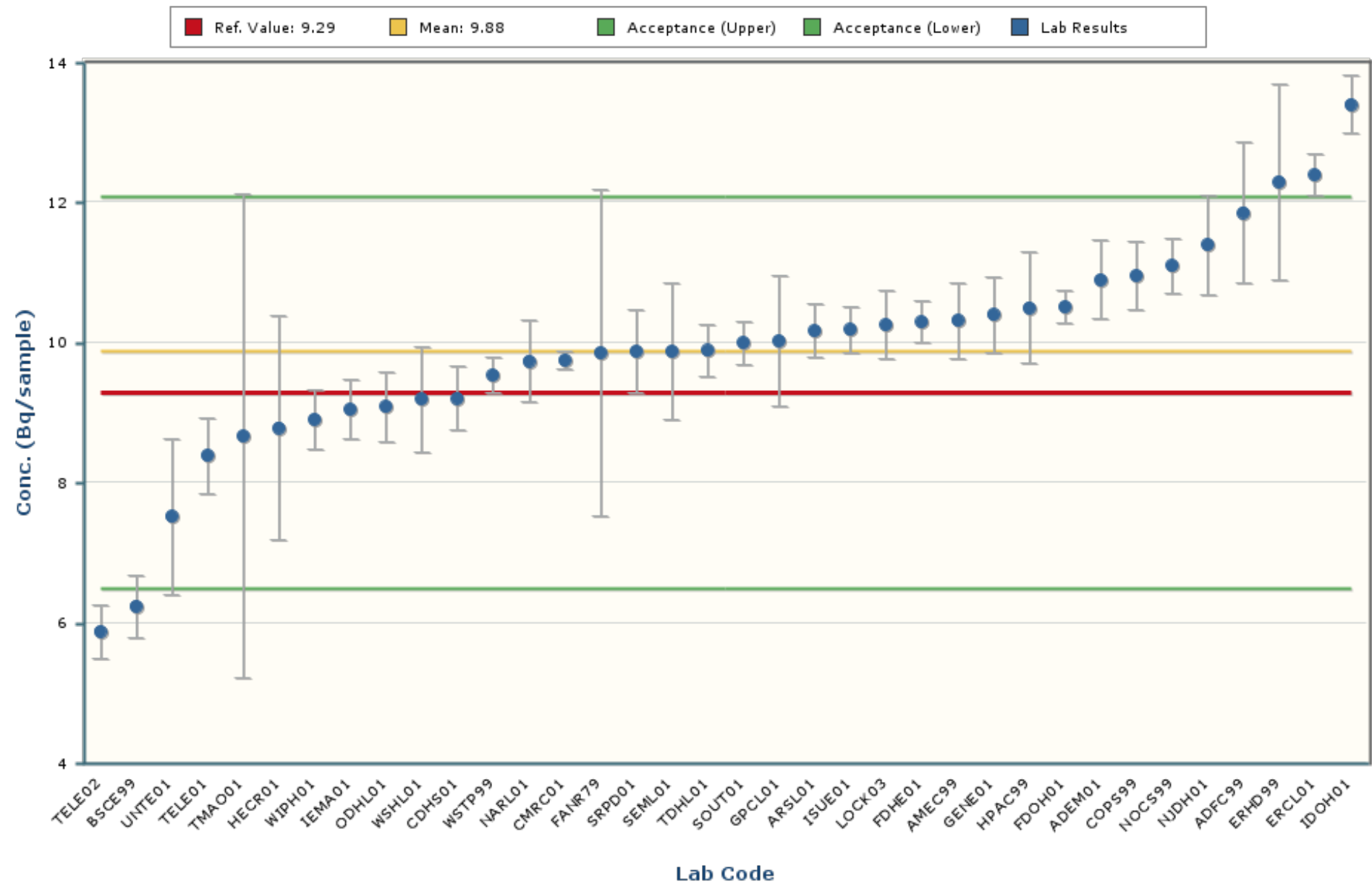
MAPEP-25-RdV53



Notes:
The chart mean excludes values outside of a bias range of $\pm 30\%$.
The chart shows only data points with values between 0.043 and 0.187 (± 5 Standard Deviations).
The error bars encompassing each result are plotted at $\pm$ one standard deviation.

Zinc-65

MAPEP-25-RdV53



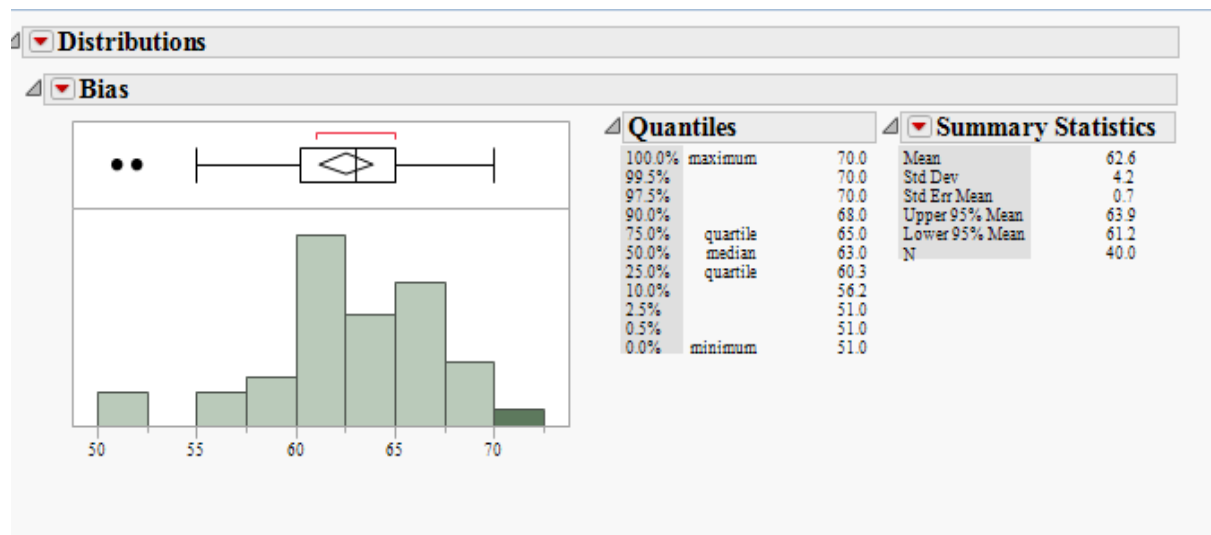
Notes:

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

The chart shows only data points with values between 5.27 and 14.49 (± 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.

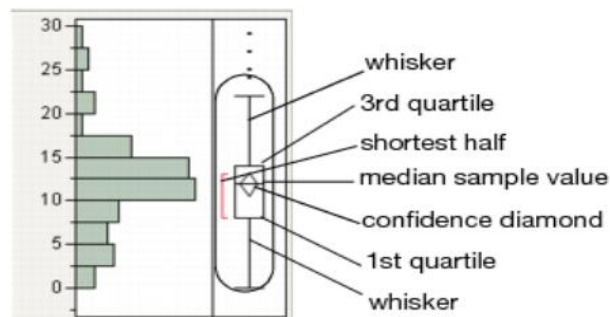


Outlier Box Plot

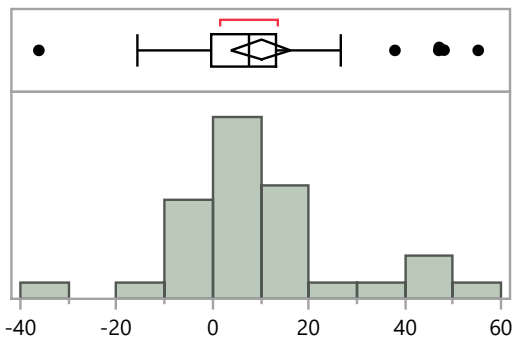
The BLACK small vertical line inside the small rectangle at the top of the data distribution graph is the median of the population of the bias shown for that analyte in the matrix. The confidence diamond contains the mean and the upper and lower 95% of the mean. If you drew a line through the middle 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)



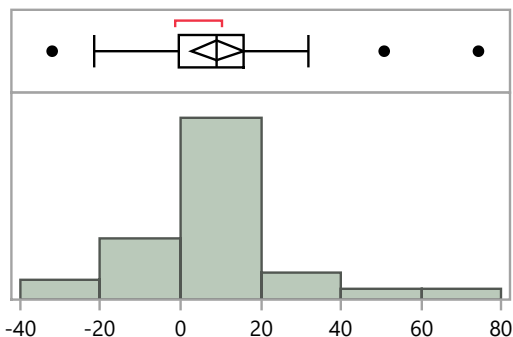
If the data points do not reach the computed ranges, then the whiskers are determined by the upper and lower data point values (not including outliers). The bracket outside of the box identifies the *shortest half*, which is the most dense 50% of the observations (Rousseuw and Leroy 1987).

RdV53 Distribution by Detection Method**Distributions Analyte_Detection=Cesium-137 Gamma Spectrometry****Bias****Quantiles**

100.0%	maximum	55.2
99.5%		55.2
97.5%		55.2
90.0%		47.0
75.0%	quartile	13.4
50.0%	median	7.5
25.0%	quartile	-0.5
10.0%		-7.6
2.5%		-36.1
0.5%		-36.1
0.0%	minimum	-36.1

Summary Statistics

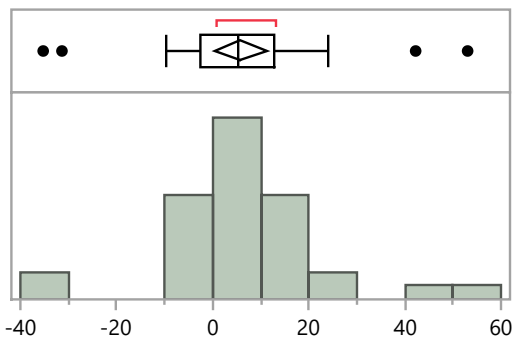
Mean	10.0
Std Dev	18.6
Std Err Mean	3.1
Upper 95% Mean	16.3
Lower 95% Mean	3.7
N	36.0

Distributions Analyte_Detection=Cobalt-57 Gamma Spectrometry**Bias****Quantiles**

100.0%	maximum	74.3
99.5%		74.3
97.5%		74.3
90.0%		31.0
75.0%	quartile	15.9
50.0%	median	8.9
25.0%	quartile	-0.6
10.0%		-14.3
2.5%		-32.0
0.5%		-32.0
0.0%	minimum	-32.0

Summary Statistics

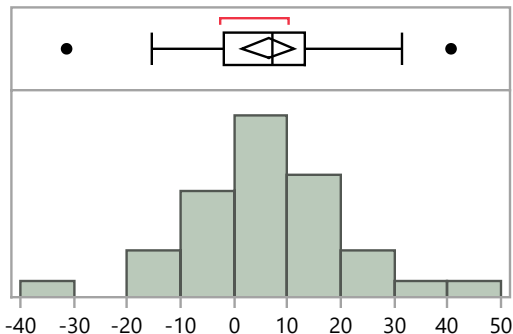
Mean	9.2
Std Dev	18.9
Std Err Mean	3.2
Upper 95% Mean	15.7
Lower 95% Mean	2.7
N	35.0

Distributions Analyte_Detection=Cobalt-60 Gamma Spectrometry**Bias****Quantiles**

100.0%	maximum	53.0
99.5%		53.0
97.5%		53.0
90.0%		22.7
75.0%	quartile	12.8
50.0%	median	5.5
25.0%	quartile	-2.4
10.0%		-6.9
2.5%		-35.2
0.5%		-35.2
0.0%	minimum	-35.2

Summary Statistics

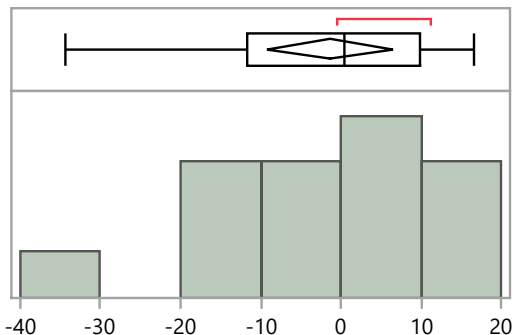
Mean	5.8
Std Dev	15.9
Std Err Mean	2.7
Upper 95% Mean	11.2
Lower 95% Mean	0.4
N	36.0

RdV53 Distribution by Detection Method**Distributions Analyte_Detection=Manganese-54 Gamma Spectrometry****Bias****Quantiles**

100.0%	maximum	40.6
99.5%		40.6
97.5%		40.6
90.0%		26.8
75.0%	quartile	13.4
50.0%	median	7.1
25.0%	quartile	-2.1
10.0%		-13.1
2.5%		-31.3
0.5%		-31.3
0.0%	minimum	-31.3

Summary Statistics

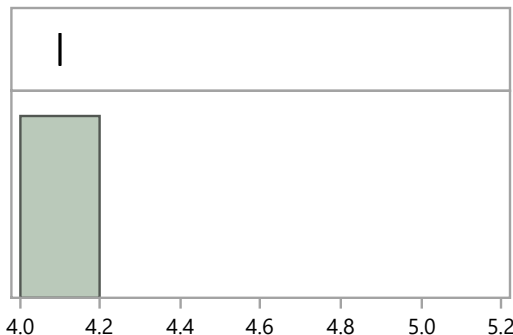
Mean	6.4
Std Dev	14.3
Std Err Mean	2.4
Upper 95% Mean	11.3
Lower 95% Mean	1.6
N	36.0

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

100.0%	maximum	16.7
99.5%		16.7
97.5%		16.7
90.0%		14.5
75.0%	quartile	9.8
50.0%	median	0.4
25.0%	quartile	-11.8
10.0%		-25.8
2.5%		-34.4
0.5%		-34.4
0.0%	minimum	-34.4

Summary Statistics

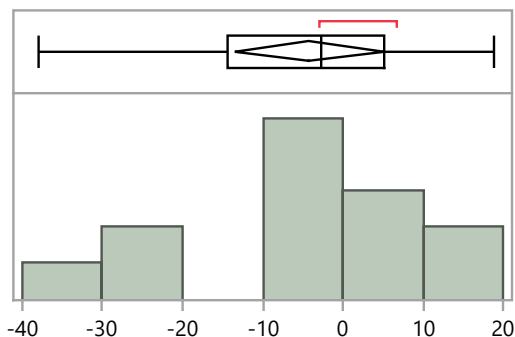
Mean	-1.3
Std Dev	13.7
Std Err Mean	3.7
Upper 95% Mean	6.6
Lower 95% Mean	-9.2
N	14.0

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

100.0%	maximum	4.1
99.5%		4.1
97.5%		4.1
90.0%		4.1
75.0%	quartile	4.1
50.0%	median	4.1
25.0%	quartile	4.1
10.0%		4.1
2.5%		4.1
0.5%		4.1
0.0%	minimum	4.1

Summary Statistics

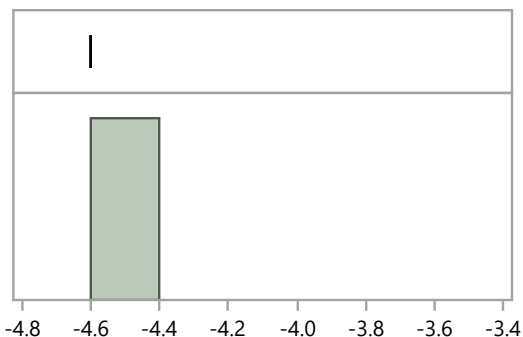
Mean	4.1
Std Dev	.
Std Err Mean	.
Upper 95% Mean	.
Lower 95% Mean	.
N	1.0

RdV53 Distribution by Detection Method**Distributions Analyte_Detection=Plutonium-239/240 Alpha Spectrometry****Bias****Quantiles**

100.0%	maximum	18.9
99.5%		18.9
97.5%		18.9
90.0%		16.8
75.0%	quartile	5.1
50.0%	median	-2.7
25.0%	quartile	-14.5
10.0%		-31.8
2.5%		-38.0
0.5%		-38.0
0.0%	minimum	-38.0

Summary Statistics

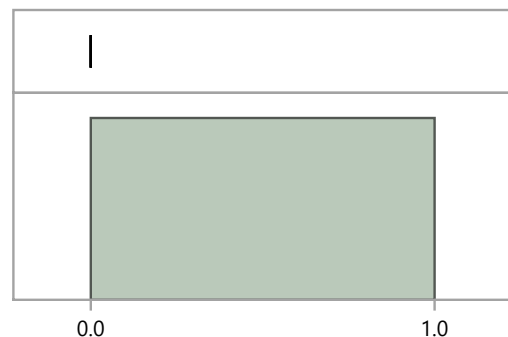
Mean	-4.2
Std Dev	15.4
Std Err Mean	4.3
Upper 95% Mean	5.0
Lower 95% Mean	-13.5
N	13.0

Distributions Analyte_Detection=Plutonium-239/240 Gamma Spectrometry**Bias****Quantiles**

100.0%	maximum	-4.6
99.5%		-4.6
97.5%		-4.6
90.0%		-4.6
75.0%	quartile	-4.6
50.0%	median	-4.6
25.0%	quartile	-4.6
10.0%		-4.6
2.5%		-4.6
0.5%		-4.6
0.0%	minimum	-4.6

Summary Statistics

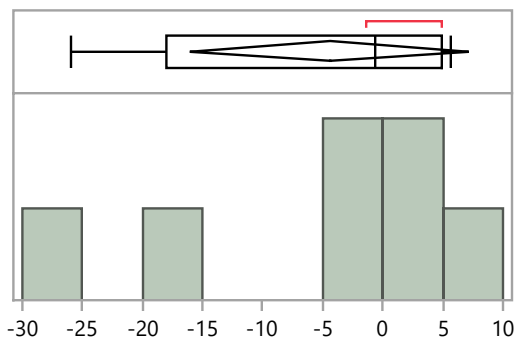
Mean	-4.6
Std Dev	.
Std Err Mean	.
Upper 95% Mean	.
Lower 95% Mean	.
N	1.0

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

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

Summary Statistics

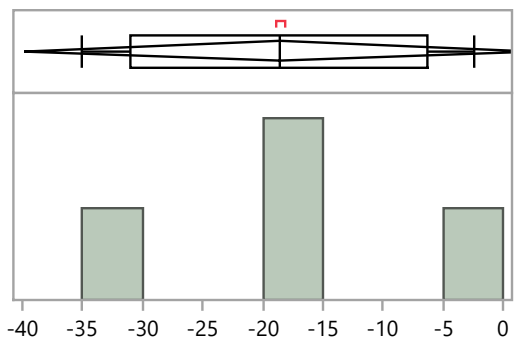
Mean	0.0
Std Dev	.
Std Err Mean	.
Upper 95% Mean	.
Lower 95% Mean	.
N	1.0

RdV53 Distribution by Detection Method**Distributions Analyte_Detection=Strontium-90 Gas Flow Proportional Counter****Bias****Quantiles**

100.0%	maximum	5.7
99.5%		5.7
97.5%		5.7
90.0%		5.7
75.0%	quartile	4.9
50.0%	median	-0.7
25.0%	quartile	-18.0
10.0%		-25.9
2.5%		-25.9
0.5%		-25.9
0.0%	minimum	-25.9

Summary Statistics

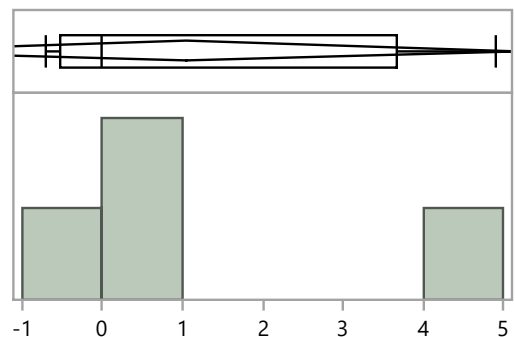
Mean	-4.5
Std Dev	12.5
Std Err Mean	4.7
Upper 95% Mean	7.1
Lower 95% Mean	-16.0
N	7.0

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

100.0%	maximum	-2.4
99.5%		-2.4
97.5%		-2.4
90.0%		-2.4
75.0%	quartile	-6.4
50.0%	median	-18.6
25.0%	quartile	-31.0
10.0%		-35.0
2.5%		-35.0
0.5%		-35.0
0.0%	minimum	-35.0

Summary Statistics

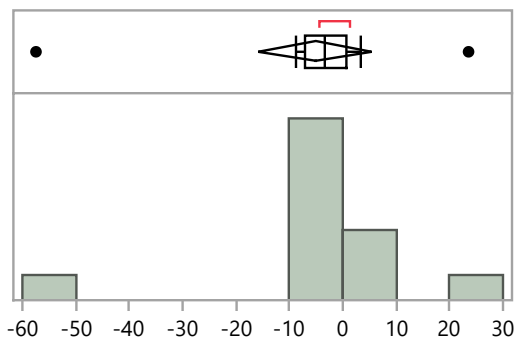
Mean	-18.6
Std Dev	13.3
Std Err Mean	6.7
Upper 95% Mean	2.6
Lower 95% Mean	-39.8
N	4.0

Distributions Analyte_Detection=Strontium-90 Liquid Scintillation Counter**Bias****Quantiles**

100.0%	maximum	4.9
99.5%		4.9
97.5%		4.9
90.0%		4.9
75.0%	quartile	3.7
50.0%	median	0.0
25.0%	quartile	-0.5
10.0%		-0.7
2.5%		-0.7
0.5%		-0.7
0.0%	minimum	-0.7

Summary Statistics

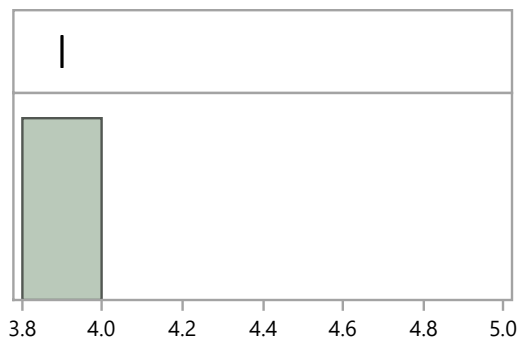
Mean	1.1
Std Dev	2.6
Std Err Mean	1.3
Upper 95% Mean	5.2
Lower 95% Mean	-3.1
N	4.0

RdV53 Distribution by Detection Method**Distributions Analyte_Detection=Uranium-234 Alpha Spectrometry****Bias****Quantiles**

100.0%	maximum	23.5
99.5%		23.5
97.5%		23.5
90.0%		15.5
75.0%	quartile	0.6
50.0%	median	-3.5
25.0%	quartile	-7.0
10.0%		-37.9
2.5%		-57.4
0.5%		-57.4
0.0%	minimum	-57.4

Summary Statistics

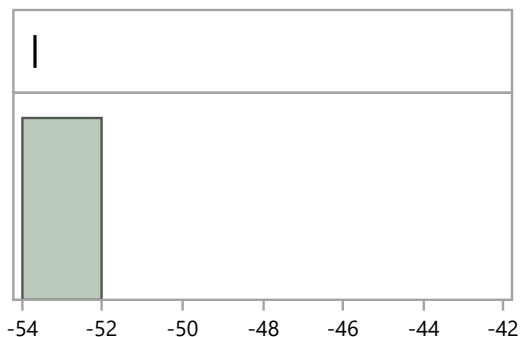
Mean	-5.1
Std Dev	17.7
Std Err Mean	4.9
Upper 95% Mean	5.5
Lower 95% Mean	-15.8
N	13.0

Distributions Analyte_Detection=Uranium-234 Gamma Spectrometry**Bias****Quantiles**

100.0%	maximum	3.9
99.5%		3.9
97.5%		3.9
90.0%		3.9
75.0%	quartile	3.9
50.0%	median	3.9
25.0%	quartile	3.9
10.0%		3.9
2.5%		3.9
0.5%		3.9
0.0%	minimum	3.9

Summary Statistics

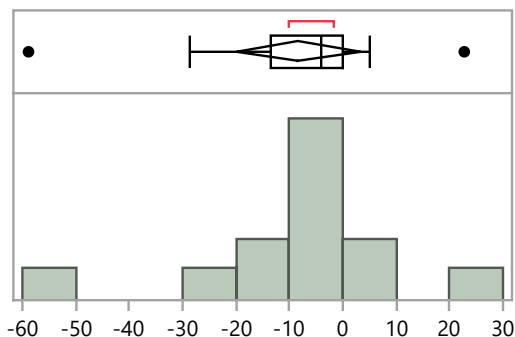
Mean	3.9
Std Dev	.
Std Err Mean	.
Upper 95% Mean	.
Lower 95% Mean	.
N	1.0

Distributions Analyte_Detection=Uranium-234 Inductively Coupled Plasma Mass Spectrometry**Bias****Quantiles**

100.0%	maximum	-53.7
99.5%		-53.7
97.5%		-53.7
90.0%		-53.7
75.0%	quartile	-53.7
50.0%	median	-53.7
25.0%	quartile	-53.7
10.0%		-53.7
2.5%		-53.7
0.5%		-53.7
0.0%	minimum	-53.7

Summary Statistics

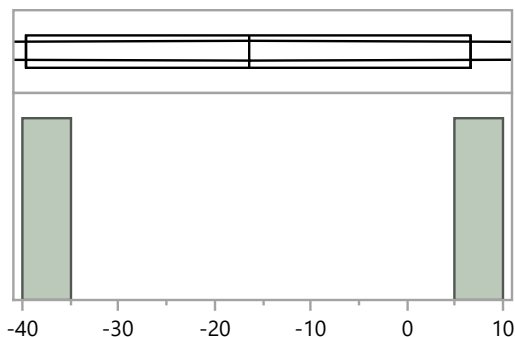
Mean	-53.7
Std Dev	.
Std Err Mean	.
Upper 95% Mean	.
Lower 95% Mean	.
N	1.0

RdV53 Distribution by Detection Method**Distributions Analyte_Detection=Uranium-238 Alpha Spectrometry****Bias****Quantiles**

100.0%	maximum	22.7
99.5%		22.7
97.5%		22.7
90.0%		15.6
75.0%	quartile	0.0
50.0%	median	-4.2
25.0%	quartile	-13.5
10.0%		-46.7
2.5%		-58.8
0.5%		-58.8
0.0%	minimum	-58.8

Summary Statistics

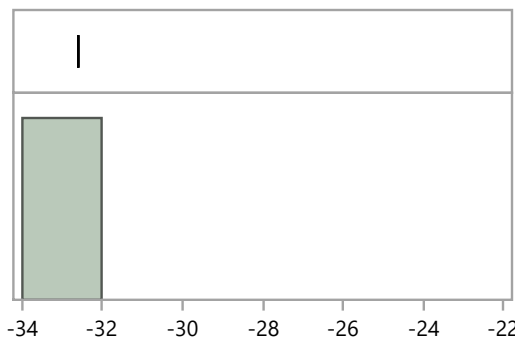
Mean	-8.3
Std Dev	19.2
Std Err Mean	5.3
Upper 95% Mean	3.3
Lower 95% Mean	-19.9
N	13.0

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

100.0%	maximum	6.6
99.5%		6.6
97.5%		6.6
90.0%		6.6
75.0%	quartile	6.6
50.0%	median	-16.5
25.0%	quartile	-39.5
10.0%		-39.5
2.5%		-39.5
0.5%		-39.5
0.0%	minimum	-39.5

Summary Statistics

Mean	-16.5
Std Dev	32.6
Std Err Mean	23.1
Upper 95% Mean	276.4
Lower 95% Mean	-309.3
N	2.0

Distributions Analyte_Detection=Uranium-238 Inductively Coupled Plasma Mass Spectrometry**Bias****Quantiles**

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

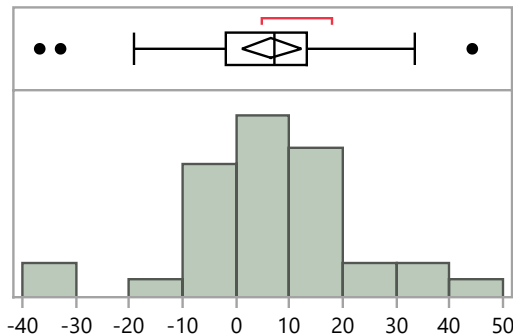
Summary Statistics

Mean	-32.6
Std Dev	.
Std Err Mean	.
Upper 95% Mean	.
Lower 95% Mean	.
N	1.0

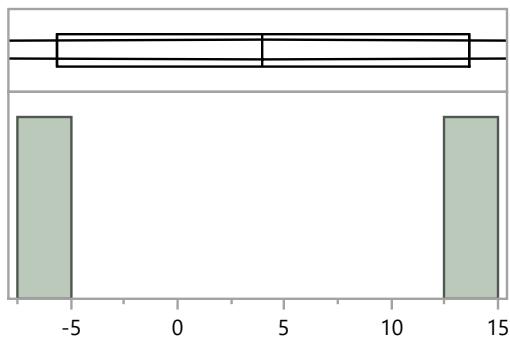
RdV53 Distribution by Detection Method

Distributions Analyte_Detection=Zinc-65 Gamma Spectrometry

Bias



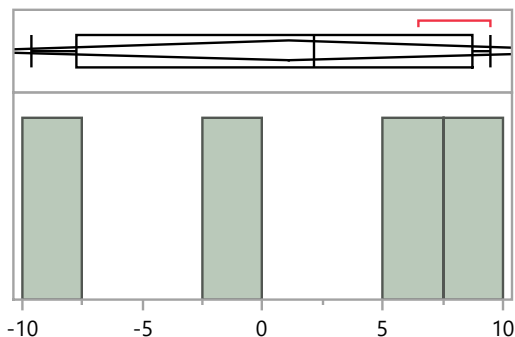
Quantiles			Summary Statistics	
100.0%	maximum	44.2	Mean	6.6
99.5%		44.2	Std Dev	16.2
97.5%		44.2	Std Err Mean	2.7
90.0%		29.1	Upper 95% Mean	12.1
75.0%	quartile	13.2	Lower 95% Mean	1.1
50.0%	median	7.1	N	36.0
25.0%	quartile	-1.9		
10.0%		-12.5		
2.5%		-36.7		
0.5%		-36.7		
0.0%	minimum	-36.7		

RdV53 Distribution by Preparation Method**Distributions Analyte_Method=Cesium-137 Acid dissolution with hydrofluoric acid****Bias****Quantiles**

100.0%	maximum	13.6
99.5%		13.6
97.5%		13.6
90.0%		13.6
75.0%	quartile	13.6
50.0%	median	4.0
25.0%	quartile	-5.6
10.0%		-5.6
2.5%		-5.6
0.5%		-5.6
0.0%	minimum	-5.6

Summary Statistics

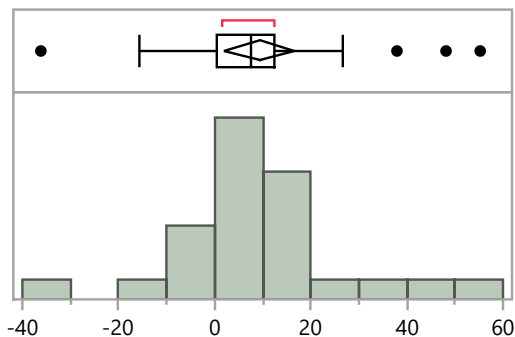
Mean	4.0
Std Dev	13.6
Std Err Mean	9.6
Upper 95% Mean	126.0
Lower 95% Mean	-118.0
N	2.0

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

100.0%	maximum	9.5
99.5%		9.5
97.5%		9.5
90.0%		9.5
75.0%	quartile	8.8
50.0%	median	2.2
25.0%	quartile	-7.8
10.0%		-9.6
2.5%		-9.6
0.5%		-9.6
0.0%	minimum	-9.6

Summary Statistics

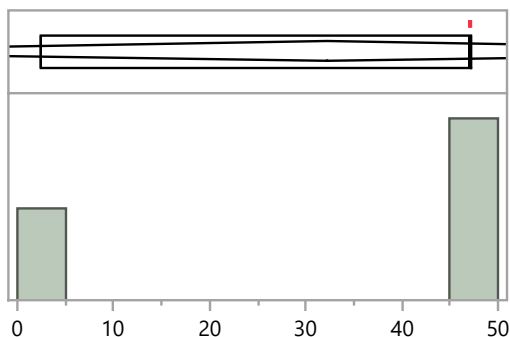
Mean	1.1
Std Dev	8.7
Std Err Mean	4.3
Upper 95% Mean	14.8
Lower 95% Mean	-12.7
N	4.0

Distributions Analyte_Method=Cesium-137 No preparation - analyzed as received**Bias****Quantiles**

100.0%	maximum	55.2
99.5%		55.2
97.5%		55.2
90.0%		39.9
75.0%	quartile	12.6
50.0%	median	7.5
25.0%	quartile	0.3
10.0%		-8.5
2.5%		-36.1
0.5%		-36.1
0.0%	minimum	-36.1

Summary Statistics

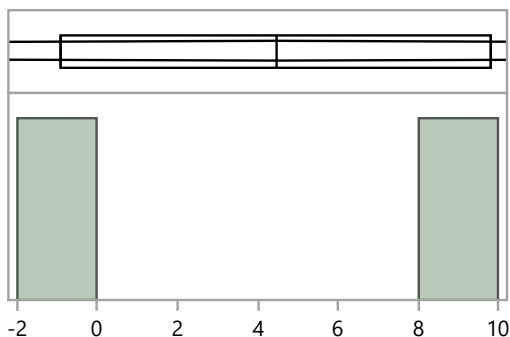
Mean	9.3
Std Dev	18.1
Std Err Mean	3.5
Upper 95% Mean	16.5
Lower 95% Mean	2.1
N	27.0

RdV53 Distribution by Preparation Method**Distributions Analyte_Method=Cesium-137 Other****Bias****Quantiles**

100.0%	maximum	47.1
99.5%		47.1
97.5%		47.1
90.0%		47.1
75.0%	quartile	47.1
50.0%	median	47.0
25.0%	quartile	2.4
10.0%		2.4
2.5%		2.4
0.5%		2.4
0.0%	minimum	2.4

Summary Statistics

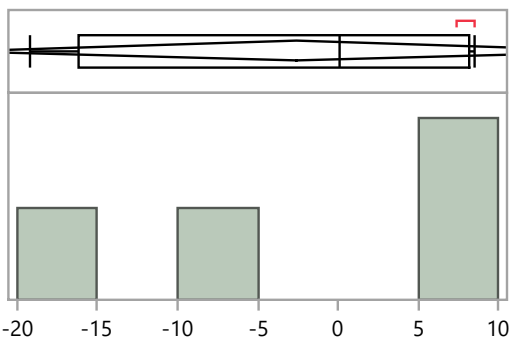
Mean	32.2
Std Dev	25.8
Std Err Mean	14.9
Upper 95% Mean	96.2
Lower 95% Mean	-31.9
N	3.0

Distributions Analyte_Method=Cobalt-57 Acid dissolution with hydrofluoric acid**Bias****Quantiles**

100.0%	maximum	9.8
99.5%		9.8
97.5%		9.8
90.0%		9.8
75.0%	quartile	9.8
50.0%	median	4.5
25.0%	quartile	-0.9
10.0%		-0.9
2.5%		-0.9
0.5%		-0.9
0.0%	minimum	-0.9

Summary Statistics

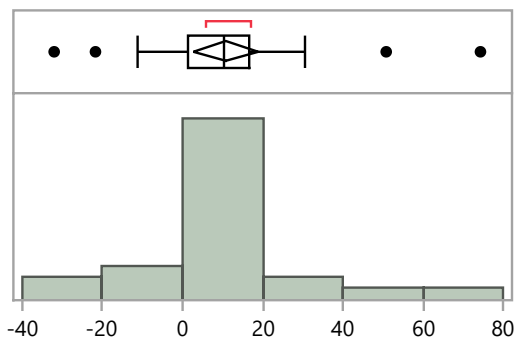
Mean	4.5
Std Dev	7.6
Std Err Mean	5.4
Upper 95% Mean	72.4
Lower 95% Mean	-63.5
N	2.0

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

100.0%	maximum	8.5
99.5%		8.5
97.5%		8.5
90.0%		8.5
75.0%	quartile	8.2
50.0%	median	0.1
25.0%	quartile	-16.2
10.0%		-19.2
2.5%		-19.2
0.5%		-19.2
0.0%	minimum	-19.2

Summary Statistics

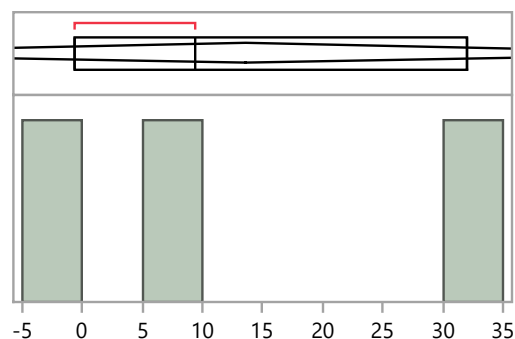
Mean	-2.6
Std Dev	13.2
Std Err Mean	6.6
Upper 95% Mean	18.3
Lower 95% Mean	-23.6
N	4.0

RdV53 Distribution by Preparation Method**Distributions Analyte_Method=Cobalt-57 No preparation - analyzed as received****Bias****Quantiles**

100.0%	maximum	74.3
99.5%		74.3
97.5%		74.3
90.0%		36.5
75.0%	quartile	16.5
50.0%	median	10.3
25.0%	quartile	1.3
10.0%		-14.2
2.5%		-32.0
0.5%		-32.0
0.0%	minimum	-32.0

Summary Statistics

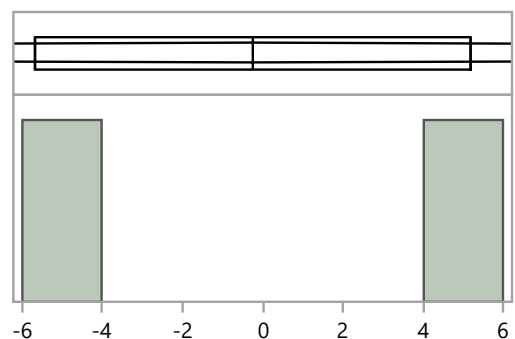
Mean	10.9
Std Dev	20.3
Std Err Mean	4.0
Upper 95% Mean	19.0
Lower 95% Mean	2.7
N	26.0

Distributions Analyte_Method=Cobalt-57 Other**Bias****Quantiles**

100.0%	maximum	32.0
99.5%		32.0
97.5%		32.0
90.0%		32.0
75.0%	quartile	32.0
50.0%	median	9.4
25.0%	quartile	-0.6
10.0%		-0.6
2.5%		-0.6
0.5%		-0.6
0.0%	minimum	-0.6

Summary Statistics

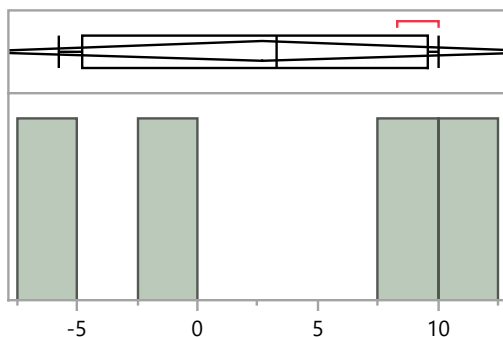
Mean	13.6
Std Dev	16.7
Std Err Mean	9.6
Upper 95% Mean	55.1
Lower 95% Mean	-27.9
N	3.0

Distributions Analyte_Method=Cobalt-60 Acid dissolution with hydrofluoric acid**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	-0.3
25.0%	quartile	-5.7
10.0%		-5.7
2.5%		-5.7
0.5%		-5.7
0.0%	minimum	-5.7

Summary Statistics

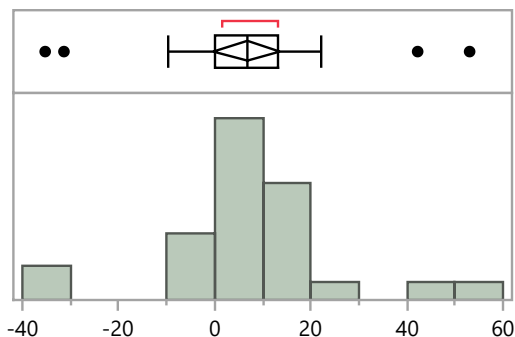
Mean	-0.3
Std Dev	7.7
Std Err Mean	5.5
Upper 95% Mean	69.0
Lower 95% Mean	-69.5
N	2.0

RdV53 Distribution by Preparation Method**Distributions Analyte_Method=Cobalt-60 EPA 901.1, Gamma Emitting, 600/4-80-032****Bias****Quantiles**

100.0%	maximum	10.0
99.5%		10.0
97.5%		10.0
90.0%		10.0
75.0%	quartile	9.6
50.0%	median	3.3
25.0%	quartile	-4.8
10.0%		-5.8
2.5%		-5.8
0.5%		-5.8
0.0%	minimum	-5.8

Summary Statistics

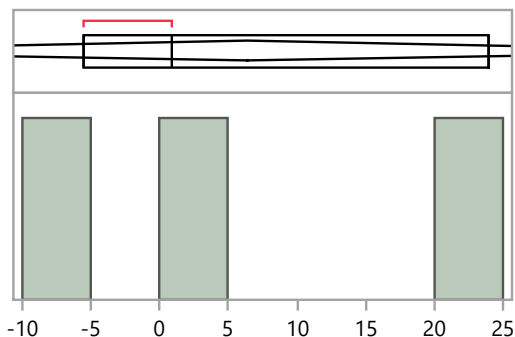
Mean	2.7
Std Dev	7.7
Std Err Mean	3.8
Upper 95% Mean	14.9
Lower 95% Mean	-9.5
N	4.0

Distributions Analyte_Method=Cobalt-60 No preparation - analyzed as received**Bias****Quantiles**

100.0%	maximum	53.0
99.5%		53.0
97.5%		53.0
90.0%		26.2
75.0%	quartile	13.0
50.0%	median	7.0
25.0%	quartile	0.2
10.0%		-13.9
2.5%		-35.2
0.5%		-35.2
0.0%	minimum	-35.2

Summary Statistics

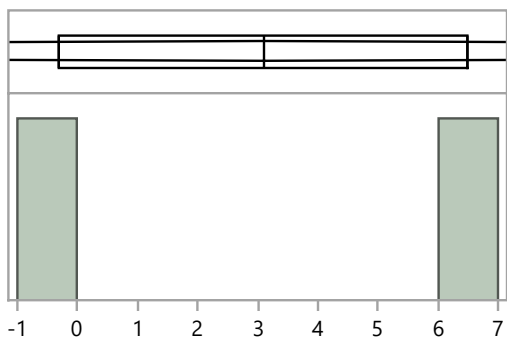
Mean	6.7
Std Dev	17.6
Std Err Mean	3.4
Upper 95% Mean	13.6
Lower 95% Mean	-0.3
N	27.0

Distributions Analyte_Method=Cobalt-60 Other**Bias****Quantiles**

100.0%	maximum	23.9
99.5%		23.9
97.5%		23.9
90.0%		23.9
75.0%	quartile	23.9
50.0%	median	0.9
25.0%	quartile	-5.5
10.0%		-5.5
2.5%		-5.5
0.5%		-5.5
0.0%	minimum	-5.5

Summary Statistics

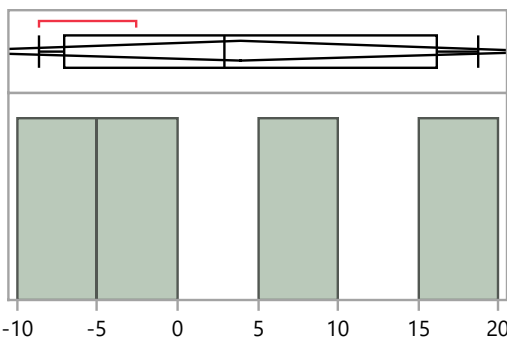
Mean	6.4
Std Dev	15.5
Std Err Mean	8.9
Upper 95% Mean	44.8
Lower 95% Mean	-32.0
N	3.0

RdV53 Distribution by Preparation Method**Distributions Analyte_Method=Manganese-54 Acid dissolution with hydrofluoric acid****Bias****Quantiles**

100.0%	maximum	6.5
99.5%		6.5
97.5%		6.5
90.0%		6.5
75.0%	quartile	6.5
50.0%	median	3.1
25.0%	quartile	-0.3
10.0%		-0.3
2.5%		-0.3
0.5%		-0.3
0.0%	minimum	-0.3

Summary Statistics

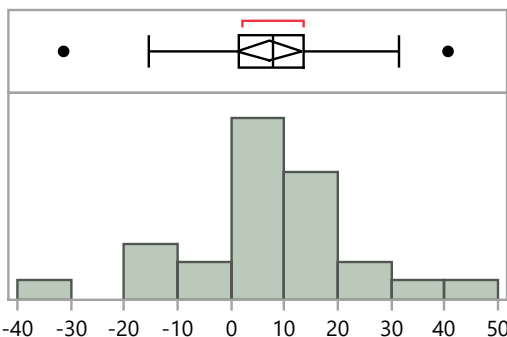
Mean	3.1
Std Dev	4.8
Std Err Mean	3.4
Upper 95% Mean	46.3
Lower 95% Mean	-40.1
N	2.0

Distributions Analyte_Method=Manganese-54 EPA 901.1, Gamma Emitting, 600/4-80-032**Bias****Quantiles**

100.0%	maximum	18.7
99.5%		18.7
97.5%		18.7
90.0%		18.7
75.0%	quartile	16.1
50.0%	median	2.9
25.0%	quartile	-7.1
10.0%		-8.6
2.5%		-8.6
0.5%		-8.6
0.0%	minimum	-8.6

Summary Statistics

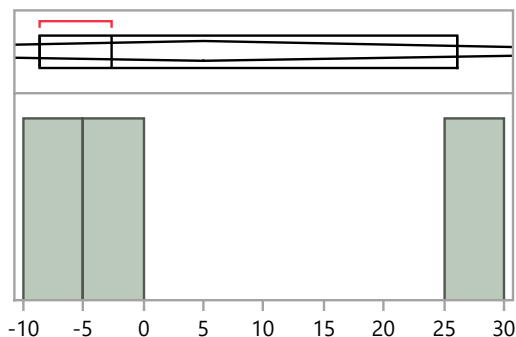
Mean	4.0
Std Dev	12.1
Std Err Mean	6.0
Upper 95% Mean	23.2
Lower 95% Mean	-15.2
N	4.0

Distributions Analyte_Method=Manganese-54 No preparation - analyzed as received**Bias****Quantiles**

100.0%	maximum	40.6
99.5%		40.6
97.5%		40.6
90.0%		29.0
75.0%	quartile	13.5
50.0%	median	7.7
25.0%	quartile	1.3
10.0%		-14.9
2.5%		-31.3
0.5%		-31.3
0.0%	minimum	-31.3

Summary Statistics

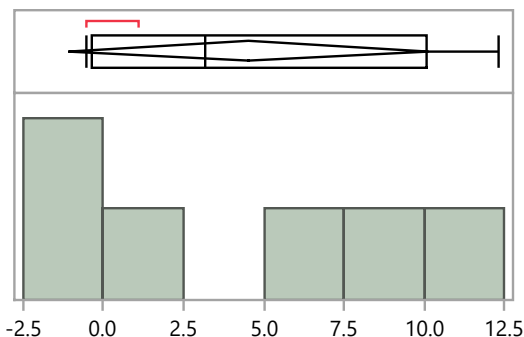
Mean	7.2
Std Dev	15.1
Std Err Mean	2.9
Upper 95% Mean	13.2
Lower 95% Mean	1.2
N	27.0

RdV53 Distribution by Preparation Method**Distributions Analyte_Method=Manganese-54 Other****Bias****Quantiles**

100.0%	maximum	26.1
99.5%		26.1
97.5%		26.1
90.0%		26.1
75.0%	quartile	26.1
50.0%	median	-2.6
25.0%	quartile	-8.6
10.0%		-8.6
2.5%		-8.6
0.5%		-8.6
0.0%	minimum	-8.6

Summary Statistics

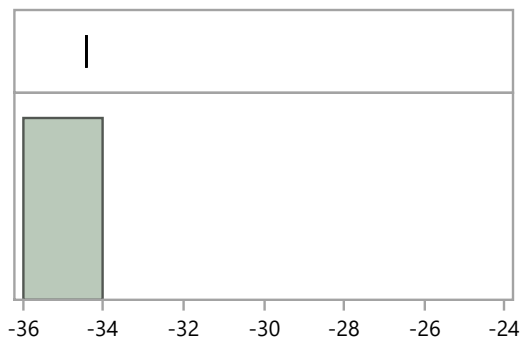
Mean	5.0
Std Dev	18.5
Std Err Mean	10.7
Upper 95% Mean	51.0
Lower 95% Mean	-41.1
N	3.0

Distributions Analyte_Method=Plutonium-238 Acid dissolution with hydrofluoric acid**Bias****Quantiles**

100.0%	maximum	12.3
99.5%		12.3
97.5%		12.3
90.0%		12.3
75.0%	quartile	10.1
50.0%	median	3.2
25.0%	quartile	-0.4
10.0%		-0.5
2.5%		-0.5
0.5%		-0.5
0.0%	minimum	-0.5

Summary Statistics

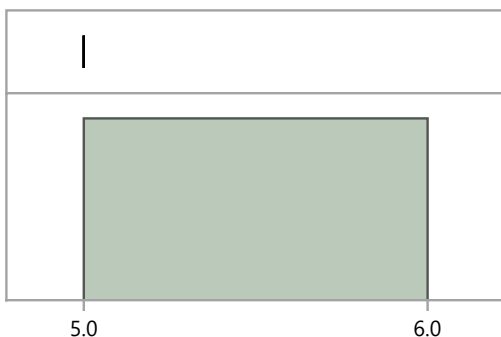
Mean	4.5
Std Dev	5.4
Std Err Mean	2.2
Upper 95% Mean	10.1
Lower 95% Mean	-1.1
N	6.0

Distributions Analyte_Method=Plutonium-238 Acid leaching without hydrofluoric acid**Bias****Quantiles**

100.0%	maximum	-34.4
99.5%		-34.4
97.5%		-34.4
90.0%		-34.4
75.0%	quartile	-34.4
50.0%	median	-34.4
25.0%	quartile	-34.4
10.0%		-34.4
2.5%		-34.4
0.5%		-34.4
0.0%	minimum	-34.4

Summary Statistics

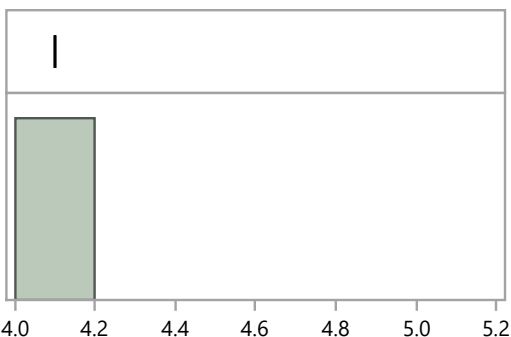
Mean	-34.4
Std Dev	.
Std Err Mean	.
Upper 95% Mean	.
Lower 95% Mean	.
N	1.0

RdV53 Distribution by Preparation Method**Distributions Analyte_Method=Plutonium-238 EPA 907, Actinide Elements, 600/4/80-032****Bias****Quantiles**

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

Summary Statistics

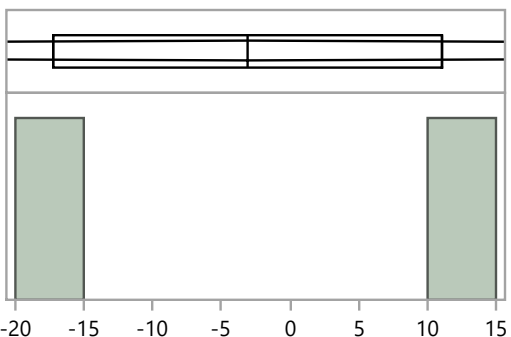
Mean	5.0
Std Dev	.
Std Err Mean	.
Upper 95% Mean	.
Lower 95% Mean	.
N	1.0

Distributions Analyte_Method=Plutonium-238 No preparation - analyzed as received**Bias****Quantiles**

100.0%	maximum	4.1
99.5%		4.1
97.5%		4.1
90.0%		4.1
75.0%	quartile	4.1
50.0%	median	4.1
25.0%	quartile	4.1
10.0%		4.1
2.5%		4.1
0.5%		4.1
0.0%	minimum	4.1

Summary Statistics

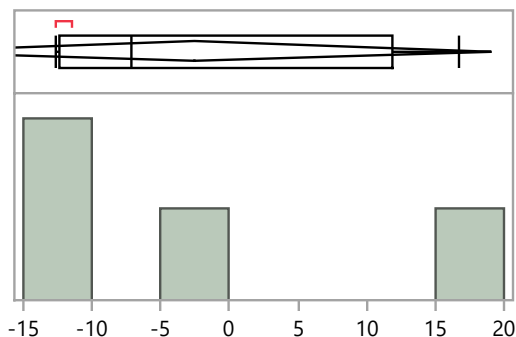
Mean	4.1
Std Dev	.
Std Err Mean	.
Upper 95% Mean	.
Lower 95% Mean	.
N	1.0

Distributions Analyte_Method=Plutonium-238 Other**Bias****Quantiles**

100.0%	maximum	11.1
99.5%		11.1
97.5%		11.1
90.0%		11.1
75.0%	quartile	11.1
50.0%	median	-3.1
25.0%	quartile	-17.2
10.0%		-17.2
2.5%		-17.2
0.5%		-17.2
0.0%	minimum	-17.2

Summary Statistics

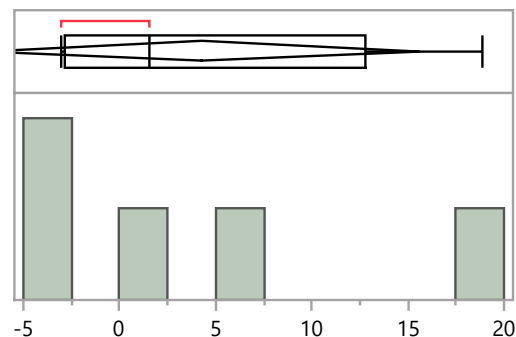
Mean	-3.1
Std Dev	20.0
Std Err Mean	14.2
Upper 95% Mean	176.7
Lower 95% Mean	-182.8
N	2.0

RdV53 Distribution by Preparation Method**Distributions Analyte_Method=Plutonium-238 Total dissolution by fusion****Bias****Quantiles**

100.0%	maximum	16.7
99.5%		16.7
97.5%		16.7
90.0%		16.7
75.0%	quartile	11.8
50.0%	median	-7.1
25.0%	quartile	-12.3
10.0%		-12.6
2.5%		-12.6
0.5%		-12.6
0.0%	minimum	-12.6

Summary Statistics

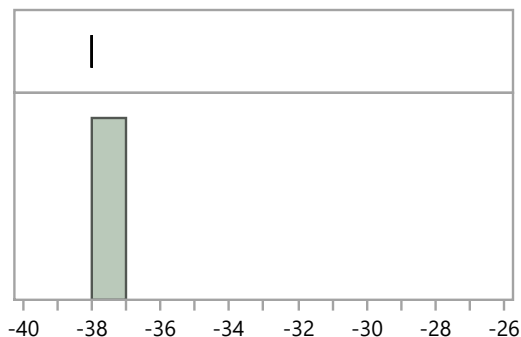
Mean	-2.5
Std Dev	13.6
Std Err Mean	6.8
Upper 95% Mean	19.1
Lower 95% Mean	-24.1
N	4.0

Distributions Analyte_Method=Plutonium-239/240 Acid dissolution with hydrofluoric acid**Bias****Quantiles**

100.0%	maximum	18.9
99.5%		18.9
97.5%		18.9
90.0%		18.9
75.0%	quartile	12.8
50.0%	median	1.6
25.0%	quartile	-2.9
10.0%		-3.0
2.5%		-3.0
0.5%		-3.0
0.0%	minimum	-3.0

Summary Statistics

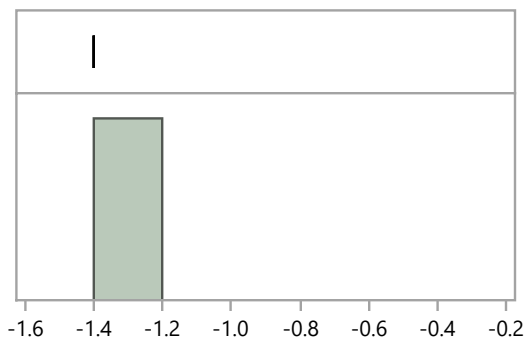
Mean	4.3
Std Dev	9.1
Std Err Mean	4.1
Upper 95% Mean	15.6
Lower 95% Mean	-7.0
N	5.0

Distributions Analyte_Method=Plutonium-239/240 Acid leaching without hydrofluoric acid**Bias****Quantiles**

100.0%	maximum	-38.0
99.5%		-38.0
97.5%		-38.0
90.0%		-38.0
75.0%	quartile	-38.0
50.0%	median	-38.0
25.0%	quartile	-38.0
10.0%		-38.0
2.5%		-38.0
0.5%		-38.0
0.0%	minimum	-38.0

Summary Statistics

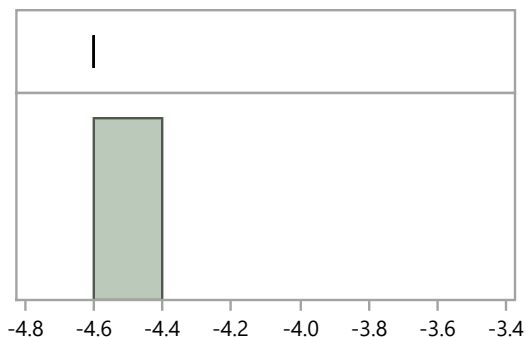
Mean	-38.0
Std Dev	.
Std Err Mean	.
Upper 95% Mean	.
Lower 95% Mean	.
N	1.0

RdV53 Distribution by Preparation Method**Distributions Analyte_Method=Plutonium-239/240 EPA 907, Actinide Elements, 600/4/80-032****Bias****Quantiles**

100.0%	maximum	-1.4
99.5%		-1.4
97.5%		-1.4
90.0%		-1.4
75.0%	quartile	-1.4
50.0%	median	-1.4
25.0%	quartile	-1.4
10.0%		-1.4
2.5%		-1.4
0.5%		-1.4
0.0%	minimum	-1.4

Summary Statistics

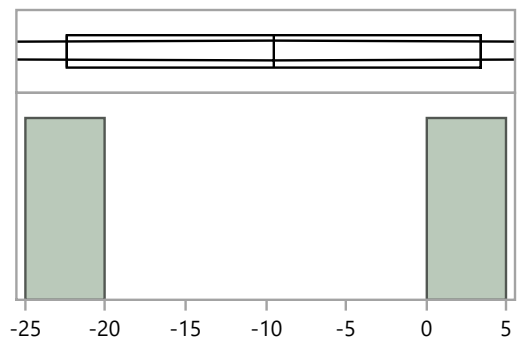
Mean	-1.4
Std Dev	.
Std Err Mean	.
Upper 95% Mean	.
Lower 95% Mean	.
N	1.0

Distributions Analyte_Method=Plutonium-239/240 No preparation - analyzed as received**Bias****Quantiles**

100.0%	maximum	-4.6
99.5%		-4.6
97.5%		-4.6
90.0%		-4.6
75.0%	quartile	-4.6
50.0%	median	-4.6
25.0%	quartile	-4.6
10.0%		-4.6
2.5%		-4.6
0.5%		-4.6
0.0%	minimum	-4.6

Summary Statistics

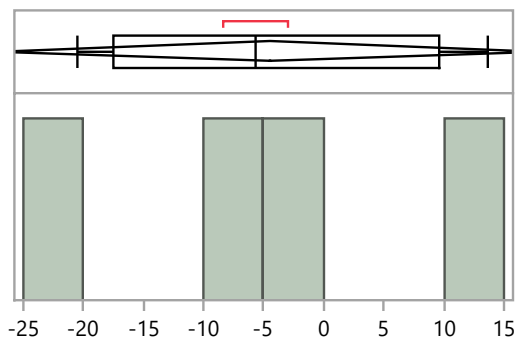
Mean	-4.6
Std Dev	.
Std Err Mean	.
Upper 95% Mean	.
Lower 95% Mean	.
N	1.0

Distributions Analyte_Method=Plutonium-239/240 Other**Bias****Quantiles**

100.0%	maximum	3.4
99.5%		3.4
97.5%		3.4
90.0%		3.4
75.0%	quartile	3.4
50.0%	median	-9.5
25.0%	quartile	-22.4
10.0%		-22.4
2.5%		-22.4
0.5%		-22.4
0.0%	minimum	-22.4

Summary Statistics

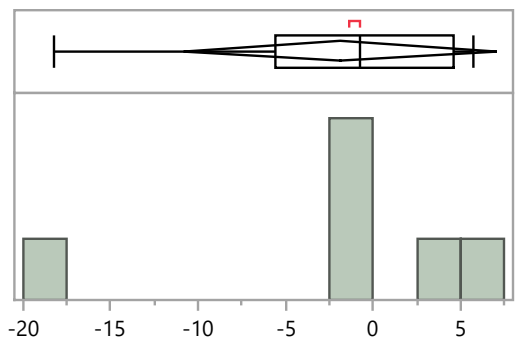
Mean	-9.5
Std Dev	18.2
Std Err Mean	12.9
Upper 95% Mean	154.4
Lower 95% Mean	-173.4
N	2.0

RdV53 Distribution by Preparation Method**Distributions Analyte_Method=Plutonium-239/240 Total dissolution by fusion****Bias****Quantiles**

100.0%	maximum	13.7
99.5%		13.7
97.5%		13.7
90.0%		13.7
75.0%	quartile	9.5
50.0%	median	-5.7
25.0%	quartile	-17.5
10.0%		-20.5
2.5%		-20.5
0.5%		-20.5
0.0%	minimum	-20.5

Summary Statistics

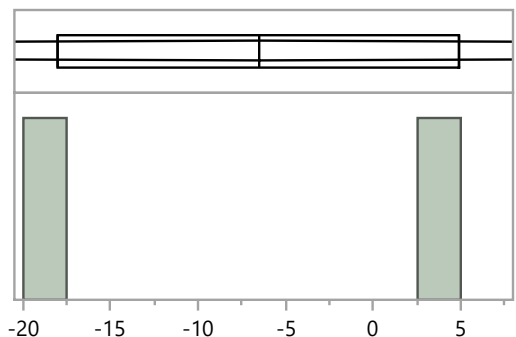
Mean	-4.6
Std Dev	14.2
Std Err Mean	7.1
Upper 95% Mean	18.0
Lower 95% Mean	-27.1
N	4.0

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

100.0%	maximum	5.7
99.5%		5.7
97.5%		5.7
90.0%		5.7
75.0%	quartile	4.6
50.0%	median	-0.7
25.0%	quartile	-5.6
10.0%		-18.2
2.5%		-18.2
0.5%		-18.2
0.0%	minimum	-18.2

Summary Statistics

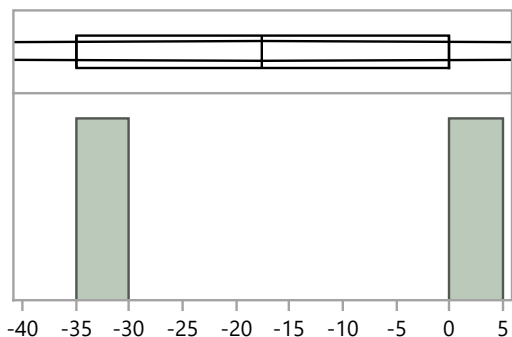
Mean	-1.9
Std Dev	8.5
Std Err Mean	3.5
Upper 95% Mean	7.1
Lower 95% Mean	-10.8
N	6.0

Distributions Analyte_Method=Strontium-90 Acid leaching without hydrofluoric acid**Bias****Quantiles**

100.0%	maximum	4.9
99.5%		4.9
97.5%		4.9
90.0%		4.9
75.0%	quartile	4.9
50.0%	median	-6.6
25.0%	quartile	-18.0
10.0%		-18.0
2.5%		-18.0
0.5%		-18.0
0.0%	minimum	-18.0

Summary Statistics

Mean	-6.6
Std Dev	16.2
Std Err Mean	11.5
Upper 95% Mean	138.9
Lower 95% Mean	-152.0
N	2.0

RdV53 Distribution by Preparation Method**Distributions Analyte_Method=Strontium-90 EPA 905, Radioactive Strontium, 600/4-80-032****Bias****Quantiles**

100.0%	maximum	0.0
99.5%		0.0
97.5%		0.0
90.0%		0.0
75.0%	quartile	0.0
50.0%	median	-17.5
25.0%	quartile	-35.0
10.0%		-35.0
2.5%		-35.0
0.5%		-35.0
0.0%	minimum	-35.0

Summary Statistics

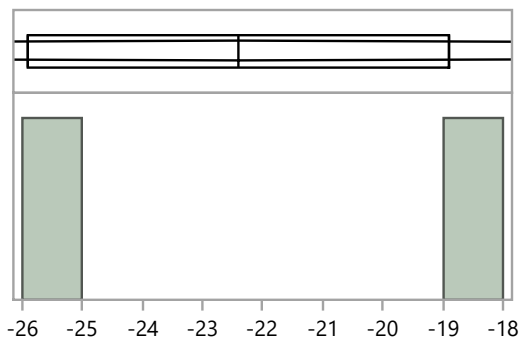
Mean	-17.5
Std Dev	24.7
Std Err Mean	17.5
Upper 95% Mean	204.9
Lower 95% Mean	-239.9
N	2.0

Distributions Analyte_Method=Strontium-90 No preparation - analyzed as received**Bias****Quantiles**

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

Summary Statistics

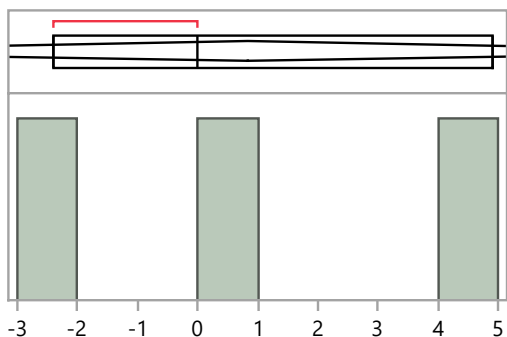
Mean	0.0
Std Dev	.
Std Err Mean	.
Upper 95% Mean	.
Lower 95% Mean	.
N	1.0

Distributions Analyte_Method=Strontium-90 Other**Bias****Quantiles**

100.0%	maximum	-18.9
99.5%		-18.9
97.5%		-18.9
90.0%		-18.9
75.0%	quartile	-18.9
50.0%	median	-22.4
25.0%	quartile	-25.9
10.0%		-25.9
2.5%		-25.9
0.5%		-25.9
0.0%	minimum	-25.9

Summary Statistics

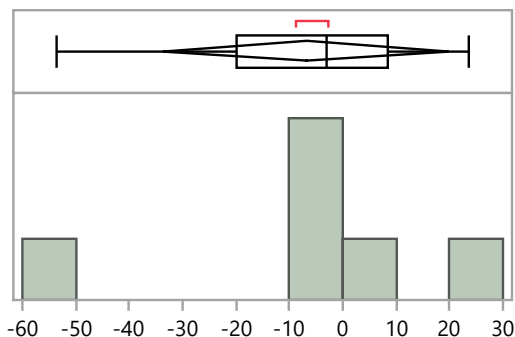
Mean	-22.4
Std Dev	4.9
Std Err Mean	3.5
Upper 95% Mean	22.1
Lower 95% Mean	-66.9
N	2.0

RdV53 Distribution by Preparation Method**Distributions Analyte_Method=Strontium-90 Total dissolution by fusion****Bias****Quantiles**

100.0%	maximum	4.9
99.5%		4.9
97.5%		4.9
90.0%		4.9
75.0%	quartile	4.9
50.0%	median	0.0
25.0%	quartile	-2.4
10.0%		-2.4
2.5%		-2.4
0.5%		-2.4
0.0%	minimum	-2.4

Summary Statistics

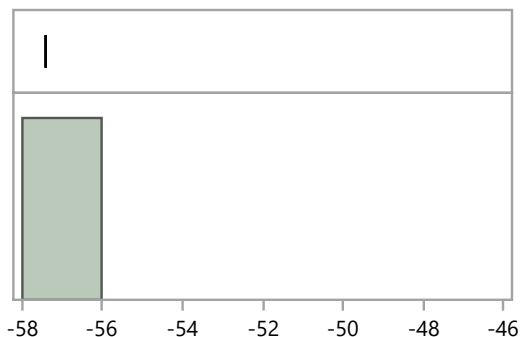
Mean	0.8
Std Dev	3.7
Std Err Mean	2.1
Upper 95% Mean	10.1
Lower 95% Mean	-8.4
N	3.0

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

100.0%	maximum	23.5
99.5%		23.5
97.5%		23.5
90.0%		23.5
75.0%	quartile	8.5
50.0%	median	-3.1
25.0%	quartile	-20.0
10.0%		-53.7
2.5%		-53.7
0.5%		-53.7
0.0%	minimum	-53.7

Summary Statistics

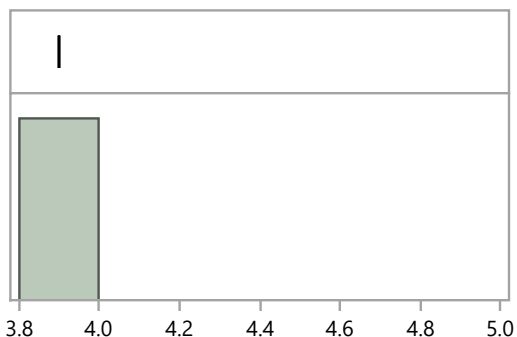
Mean	-6.9
Std Dev	25.5
Std Err Mean	10.4
Upper 95% Mean	19.9
Lower 95% Mean	-33.7
N	6.0

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

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

Summary Statistics

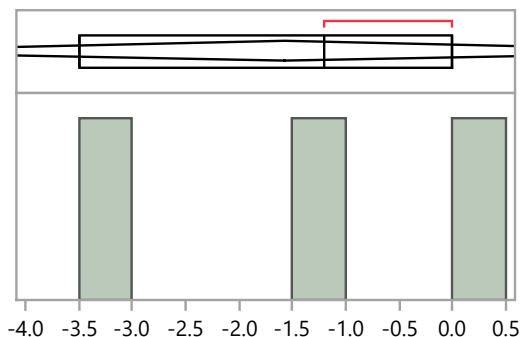
Mean	-57.4
Std Dev	.
Std Err Mean	.
Upper 95% Mean	.
Lower 95% Mean	.
N	1.0

RdV53 Distribution by Preparation Method**Distributions Analyte_Method=Uranium-234 No preparation - analyzed as received****Bias****Quantiles**

100.0%	maximum	3.9
99.5%		3.9
97.5%		3.9
90.0%		3.9
75.0%	quartile	3.9
50.0%	median	3.9
25.0%	quartile	3.9
10.0%		3.9
2.5%		3.9
0.5%		3.9
0.0%	minimum	3.9

Summary Statistics

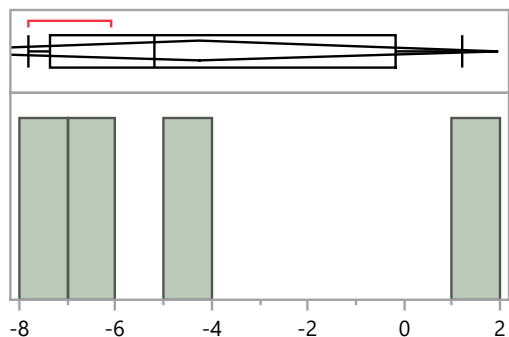
Mean	3.9
Std Dev	.
Std Err Mean	.
Upper 95% Mean	.
Lower 95% Mean	.
N	1.0

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

100.0%	maximum	0.0
99.5%		0.0
97.5%		0.0
90.0%		0.0
75.0%	quartile	0.0
50.0%	median	-1.2
25.0%	quartile	-3.5
10.0%		-3.5
2.5%		-3.5
0.5%		-3.5
0.0%	minimum	-3.5

Summary Statistics

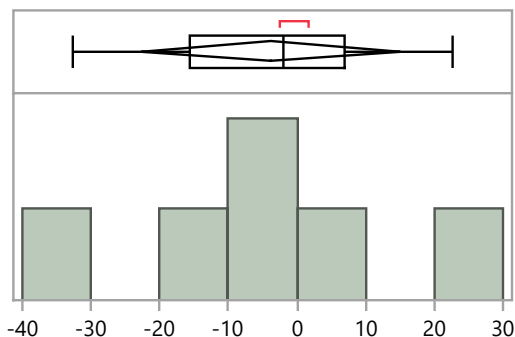
Mean	-1.6
Std Dev	1.8
Std Err Mean	1.0
Upper 95% Mean	2.9
Lower 95% Mean	-6.0
N	3.0

Distributions Analyte_Method=Uranium-234 Total dissolution by fusion**Bias****Quantiles**

100.0%	maximum	1.2
99.5%		1.2
97.5%		1.2
90.0%		1.2
75.0%	quartile	-0.2
50.0%	median	-5.2
25.0%	quartile	-7.4
10.0%		-7.8
2.5%		-7.8
0.5%		-7.8
0.0%	minimum	-7.8

Summary Statistics

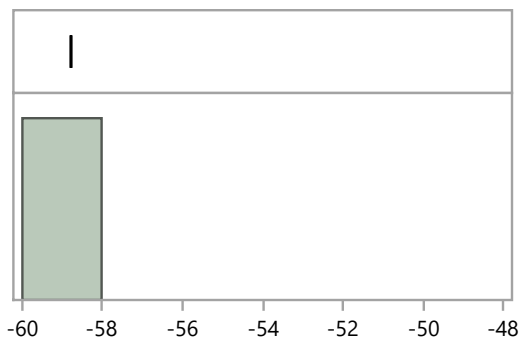
Mean	-4.3
Std Dev	3.9
Std Err Mean	2.0
Upper 95% Mean	2.0
Lower 95% Mean	-10.5
N	4.0

RdV53 Distribution by Preparation Method**Distributions Analyte_Method=Uranium-238 Acid dissolution with hydrofluoric acid****Bias****Quantiles**

100.0%	maximum	22.7
99.5%		22.7
97.5%		22.7
90.0%		22.7
75.0%	quartile	7.0
50.0%	median	-2.1
25.0%	quartile	-15.7
10.0%		-32.6
2.5%		-32.6
0.5%		-32.6
0.0%	minimum	-32.6

Summary Statistics

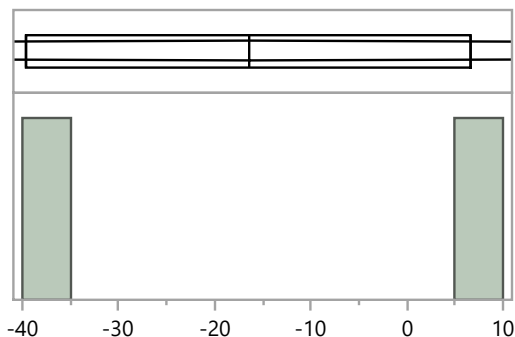
Mean	-3.8
Std Dev	17.9
Std Err Mean	7.3
Upper 95% Mean	15.1
Lower 95% Mean	-22.6
N	6.0

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

100.0%	maximum	-58.8
99.5%		-58.8
97.5%		-58.8
90.0%		-58.8
75.0%	quartile	-58.8
50.0%	median	-58.8
25.0%	quartile	-58.8
10.0%		-58.8
2.5%		-58.8
0.5%		-58.8
0.0%	minimum	-58.8

Summary Statistics

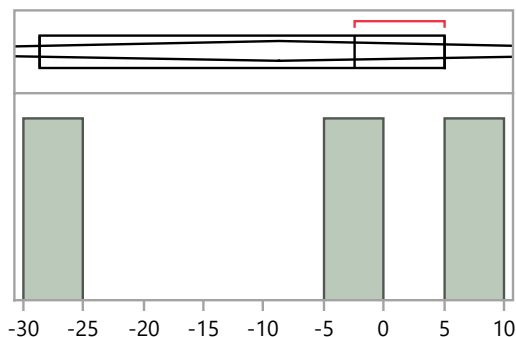
Mean	-58.8
Std Dev	.
Std Err Mean	.
Upper 95% Mean	.
Lower 95% Mean	.
N	1.0

Distributions Analyte_Method=Uranium-238 No preparation - analyzed as received**Bias****Quantiles**

100.0%	maximum	6.6
99.5%		6.6
97.5%		6.6
90.0%		6.6
75.0%	quartile	6.6
50.0%	median	-16.5
25.0%	quartile	-39.5
10.0%		-39.5
2.5%		-39.5
0.5%		-39.5
0.0%	minimum	-39.5

Summary Statistics

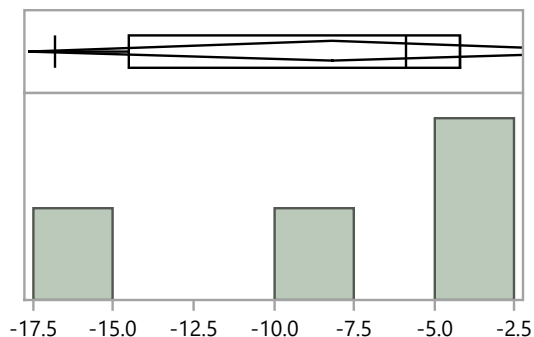
Mean	-16.5
Std Dev	32.6
Std Err Mean	23.1
Upper 95% Mean	276.4
Lower 95% Mean	-309.3
N	2.0

RdV53 Distribution by Preparation Method**Distributions Analyte_Method=Uranium-238 Other****Bias****Quantiles**

100.0%	maximum	5.0
99.5%		5.0
97.5%		5.0
90.0%		5.0
75.0%	quartile	5.0
50.0%	median	-2.5
25.0%	quartile	-28.6
10.0%		-28.6
2.5%		-28.6
0.5%		-28.6
0.0%	minimum	-28.6

Summary Statistics

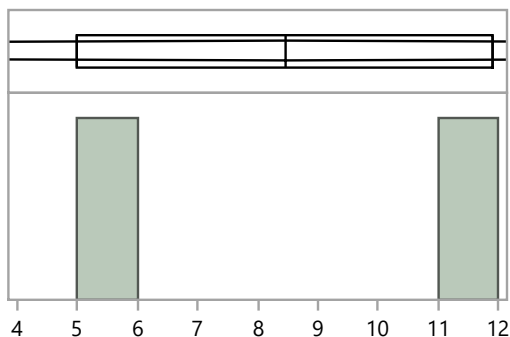
Mean	-8.7
Std Dev	17.6
Std Err Mean	10.2
Upper 95% Mean	35.1
Lower 95% Mean	-52.5
N	3.0

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

100.0%	maximum	-4.2
99.5%		-4.2
97.5%		-4.2
90.0%		-4.2
75.0%	quartile	-4.2
50.0%	median	-5.9
25.0%	quartile	-14.5
10.0%		-16.8
2.5%		-16.8
0.5%		-16.8
0.0%	minimum	-16.8

Summary Statistics

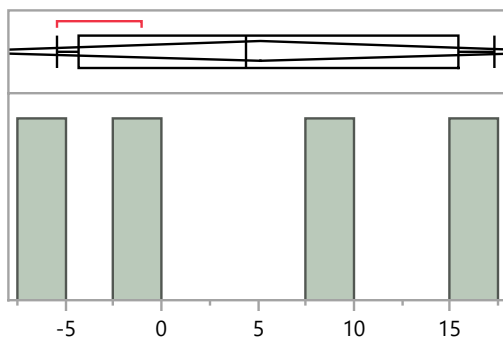
Mean	-8.2
Std Dev	6.0
Std Err Mean	3.0
Upper 95% Mean	1.3
Lower 95% Mean	-17.7
N	4.0

Distributions Analyte_Method=Zinc-65 Acid dissolution with hydrofluoric acid**Bias****Quantiles**

100.0%	maximum	11.9
99.5%		11.9
97.5%		11.9
90.0%		11.9
75.0%	quartile	11.9
50.0%	median	8.5
25.0%	quartile	5.0
10.0%		5.0
2.5%		5.0
0.5%		5.0
0.0%	minimum	5.0

Summary Statistics

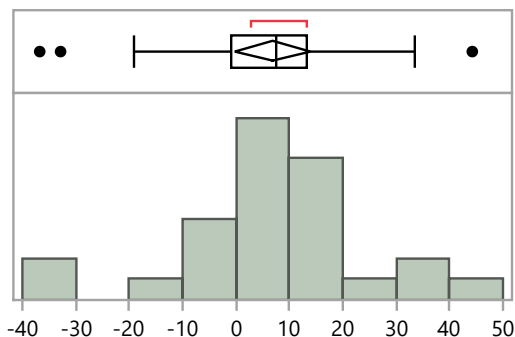
Mean	8.5
Std Dev	4.9
Std Err Mean	3.5
Upper 95% Mean	52.3
Lower 95% Mean	-35.4
N	2.0

RdV53 Distribution by Preparation Method**Distributions Analyte_Method=Zinc-65 EPA 901.1, Gamma Emitting, 600/4-80-032****Bias****Quantiles**

100.0%	maximum	17.3
99.5%		17.3
97.5%		17.3
90.0%		17.3
75.0%	quartile	15.4
50.0%	median	4.4
25.0%	quartile	-4.3
10.0%		-5.4
2.5%		-5.4
0.5%		-5.4
0.0%	minimum	-5.4

Summary Statistics

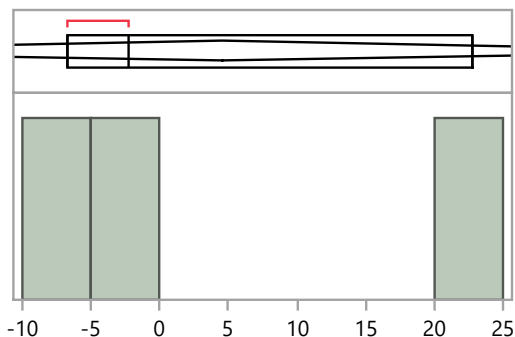
Mean	5.2
Std Dev	10.3
Std Err Mean	5.1
Upper 95% Mean	21.5
Lower 95% Mean	-11.2
N	4.0

Distributions Analyte_Method=Zinc-65 No preparation - analyzed as received**Bias****Quantiles**

100.0%	maximum	44.2
99.5%		44.2
97.5%		44.2
90.0%		32.6
75.0%	quartile	13.2
50.0%	median	7.6
25.0%	quartile	-0.9
10.0%		-21.8
2.5%		-36.7
0.5%		-36.7
0.0%	minimum	-36.7

Summary Statistics

Mean	6.9
Std Dev	17.9
Std Err Mean	3.4
Upper 95% Mean	14.0
Lower 95% Mean	-0.2
N	27.0

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

100.0%	maximum	22.7
99.5%		22.7
97.5%		22.7
90.0%		22.7
75.0%	quartile	22.7
50.0%	median	-2.2
25.0%	quartile	-6.7
10.0%		-6.7
2.5%		-6.7
0.5%		-6.7
0.0%	minimum	-6.7

Summary Statistics

Mean	4.6
Std Dev	15.8
Std Err Mean	9.1
Upper 95% Mean	43.9
Lower 95% Mean	-34.7
N	3.0