

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.

MaSF45 Participating Laboratories

Lab Code	Lab Name	Matrix Code
AFOH01	USAFSAM/OEA	MaSF
ERCL01	Washington State Public Health Laboratories	MaSF
GENE01	GEL Laboratories, LLC	MaSF
HCAL01	Lawrence Livermore National Laboratory	MaSF
RQCT01	Radiobioassay Quality Control Testing	MaSF
WIPP01	WIPP Laboratories	MaSF
WSHL01	Wisconsin State Laboratory of Hygiene	MaSF

Laboratories Not Reporting

Lab Code	Lab Name	Matrix Code
ANLB01	Argonne National Laboratory	MaSF
LANL01	Los Alamos National Laboratory	MaSF

Study Reference Values

MAPEP-21-MaSF45

Radiological Reference Date: 08/01/2021

Analyte	Ref Value	Ref Unc
Radiological	Units: (Bq/sample)	
Americium-241	0.0586	0.0012
Cesium-134	3.07	0.08
Cesium-137	4.64	0.10
Cobalt-57	3.18	0.08
Cobalt-60	2.80	0.07
Manganese-54	3.51	0.09
Plutonium-238	0.0444	0.0010
Plutonium-239/240	0.0921	0.0019
Strontium-90	0.6649	0.0165
Uranium-234	0.1595	0.0084
Uranium-238	0.1643	0.0085

Sample Statistical Summary

MAPEP-21-MaSF45

Radiological Reference Date: 08/01/2021

Analyte	T(1)	A(2)	Grand(3) Mean	Std Dev	Ref Value	Ref Unc	Acceptance Range
							Units: (Bq/sample)
Americium-241	6	6	0.0547	0.0051	0.0586	0.0012	0.0410 - 0.0762
Cesium-134	6	6	3.11	0.21	3.07	0.08	2.15 - 3.99
Cesium-137	6	6	4.76	0.54	4.64	0.10	3.25 - 6.03
Cobalt-57	6	6	3.41	0.45	3.18	0.08	2.23 - 4.13
Cobalt-60	6	6	2.84	0.30	2.80	0.07	1.96 - 3.64
Curium-244	2	2					False Positive Test
Manganese-54	5	5			3.51	0.09	2.46 - 4.56
Neptunium-237	1						False Positive Test
Plutonium-238	6	6	0.0442	0.0025	0.0444	0.0010	0.0311 - 0.0577
Plutonium-239/240	6	6	0.0856	0.0051	0.0921	0.0019	0.0645 - 0.1197
Strontium-90	4	4			0.6649	0.0165	0.4654 - 0.8644
Uranium-234	5	5			0.1595	0.0084	0.1117 - 0.2074
Uranium-238	5	5			0.1643	0.0085	0.1150 - 0.2136
Zinc-65	6	6					False Positive Test

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

Results Flags:

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

Uncertainty Flags:

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

Flag Summary Report

MAPEP-21-MaSF45

Radiological				
Analyte	A	W	RW	N
Americium-241	6			
Cesium-134	6			
Cesium-137	5	1		
Cobalt-57	5	1		
Cobalt-60	6			
Curium-244	2			
Manganese-54	4	1		
Neptunium-237				1
Plutonium-238	6			
Plutonium-239/240	6			
Strontium-90	2	2		
Uranium-234	5			
Uranium-238	5			
Zinc-65	6			



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

Laboratory Results For MAPEP-21-MaSF45

(AFOH01) USAFSAM/OEA

2510 Fifth Street, Area B

Wright-Patterson AFB, OH 45433-7913

Radiological						Units: (Bq/sample)		
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	0.0589	0.0586	A		0.5	0.0410 - 0.0762	0.0029	A
Cesium-134	NR	3.07				2.15 - 3.99		
Cesium-137	NR	4.64				3.25 - 6.03		
Cobalt-57	NR	3.18				2.23 - 4.13		
Cobalt-60	NR	2.80				1.96 - 3.64		
Curium-244	NR					False Positive Test		
Manganese-54	NR	3.51				2.46 - 4.56		
Neptunium-237	NR					False Positive Test		
Plutonium-238	0.0451	0.0444	A		1.6	0.0311 - 0.0577	0.0024	A
Plutonium-239/240	0.0902	0.0921	A		-2.1	0.0645 - 0.1197	0.0036	A
Strontium-90	0.670	0.6649	A		0.8	0.4654 - 0.8644	0.041	A
Uranium-234	0.169	0.1595	A		6.0	0.1117 - 0.2074	0.012	A
Uranium-238	0.171	0.1643	A		4.1	0.1150 - 0.2136	0.012	A
Zinc-65	NR					False Positive Test		

Radiological Reference Date: August 1, 2021

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:

NOT ACCEPTABLE.....RP < 2%

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

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

NOT ACCEPTABLE.....RP > 30%

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

Notes:

(1) = False Positive



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

Laboratory Results For MAPEP-21-MaSF45
 (ERCL01) Washington State Public Health Laboratories
 1610 N.E. 150th Street
 Shoreline, WA 98155-9701

Radiological						Units: (Bq/sample)		
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	0.0525	0.0586	A		-10.4	0.0410 - 0.0762	0.0094	W
Cesium-134	3.23	3.07	A		5.2	2.15 - 3.99	0.05	N
Cesium-137	4.01	4.64	A		-13.6	3.25 - 6.03	0.08	N
Cobalt-57	2.71	3.18	A		-14.8	2.23 - 4.13	0.05	N
Cobalt-60	2.57	2.80	A		-8.2	1.96 - 3.64	0.04	N
Curium-244	0.0001		A			False Positive Test	0.0030	
Manganese-54	3.13	3.51	A		-10.8	2.46 - 4.56	0.06	N
Neptunium-237	NR					False Positive Test		
Plutonium-238	0.0459	0.0444	A		3.4	0.0311 - 0.0577	0.0085	W
Plutonium-239/240	0.086	0.0921	A		-6.6	0.0645 - 0.1197	0.011	A
Strontium-90	NR	0.6649				0.4654 - 0.8644		
Uranium-234	0.17	0.1595	A		6.6	0.1117 - 0.2074	0.17	N
Uranium-238	0.18	0.1643	A		9.6	0.1150 - 0.2136	0.21	N
Zinc-65	-0.008		A			False Positive Test	0.042	

Radiological Reference Date: August 1, 2021

Results Flags:

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- N = Result not acceptable.....|Bias| > 30%
- RW = Report Warning
- NR = Not Reported

Uncertainty Flags:

- NOT ACCEPTABLE.....RP < 2%
- ACCEPTABLE.....2% <= RP <= 15%
- ACCEPTABLE WITH WARNING.....15% < RP <= 30%
- NOT ACCEPTABLE.....RP > 30%

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

Notes:

(1) = False Positive



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

Laboratory Results For MAPEP-21-MaSF45
 (GENE01) GEL Laboratories, LLC
 2040 Savage Road
 Charleston, SC 29407

Radiological						Units: (Bq/sample)		
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	0.0475	0.0586	A		-18.9	0.0410 - 0.0762	0.00284	A
Cesium-134	3.26	3.07	A		6.2	2.15 - 3.99	0.427	A
Cesium-137	4.75	4.64	A		2.4	3.25 - 6.03	0.444	A
Cobalt-57	3.66	3.18	A		15.1	2.23 - 4.13	0.367	A
Cobalt-60	2.53	2.80	A		-9.6	1.96 - 3.64	0.420	W
Curium-244	NR					False Positive Test		
Manganese-54	3.37	3.51	A		-4.0	2.46 - 4.56	0.487	A
Neptunium-237	0.00736		N	(1)		False Positive Test	0.00118	
Plutonium-238	0.0446	0.0444	A		0.5	0.0311 - 0.0577	0.00239	A
Plutonium-239/240	0.0822	0.0921	A		-10.7	0.0645 - 0.1197	0.00324	A
Strontium-90	0.482	0.6649	W		-27.5	0.4654 - 0.8644	0.0531	A
Uranium-234	0.156	0.1595	A		-2.2	0.1117 - 0.2074	0.00427	A
Uranium-238	0.165	0.1643	A		0.4	0.1150 - 0.2136	0.00439	A
Zinc-65	0.734		A			False Positive Test	0.423	

Radiological Reference Date: August 1, 2021

Results Flags:

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

Uncertainty Flags:

- NOT ACCEPTABLE.....RP < 2%
- ACCEPTABLE.....2% <= RP <= 15%
- ACCEPTABLE WITH WARNING.....15% < RP <= 30%
- NOT ACCEPTABLE.....RP > 30%

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

Notes:

(1) = False Positive



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

Laboratory Results For MAPEP-21-MaSF45
 (HCAL01) Lawrence Livermore National Laboratory
 Analytical Services and Instrumentation Analytical Lab
 Livermore, CA 94550

Radiological						Units: (Bq/sample)		
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	0.062	0.0586	A		5.8	0.0410 - 0.0762	0.0032	A
Cesium-134	3.21	3.07	A		4.6	2.15 - 3.99	0.16	A
Cesium-137	4.88	4.64	A		5.2	3.25 - 6.03	0.28	A
Cobalt-57	3.79	3.18	A		19.2	2.23 - 4.13	0.32	A
Cobalt-60	2.80	2.80	A		0.0	1.96 - 3.64	0.16	A
Curium-244	0.000029			A		False Positive Test	0.000024	
Manganese-54	NR	3.51				2.46 - 4.56		
Neptunium-237	NR					False Positive Test		
Plutonium-238	0.047	0.0444	A		5.9	0.0311 - 0.0577	0.0022	A
Plutonium-239/240	0.093	0.0921	A		1.0	0.0645 - 0.1197	0.0043	A
Strontium-90	NR	0.6649				0.4654 - 0.8644		
Uranium-234	NR	0.1595				0.1117 - 0.2074		
Uranium-238	NR	0.1643				0.1150 - 0.2136		
Zinc-65	-0.20		A			False Positive Test	0.63	

Radiological Reference Date: August 1, 2021

Results Flags:

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- N = Result not acceptable.....|Bias| > 30%
- RW = Report Warning
- NR = Not Reported

Uncertainty Flags:

- NOT ACCEPTABLE.....RP < 2%
- ACCEPTABLE.....2% <= RP <= 15%
- ACCEPTABLE WITH WARNING.....15% < RP <= 30%
- NOT ACCEPTABLE.....RP > 30%

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

Notes:

(1) = False Positive



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

Laboratory Results For MAPEP-21-MaSF45
 (RQCT01) Radiobioassay Quality Control Testing
 PO Box 1625, MS 2114
 Idaho Falls, ID 83415

Radiological						Units: (Bq/sample)		
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	0.0525	0.0586	A		-10.4	0.0410 - 0.0762	0.00348	A
Cesium-134	2.89	3.07	A		-5.9	2.15 - 3.99	0.22	A
Cesium-137	4.48	4.64	A		-3.4	3.25 - 6.03	0.27	A
Cobalt-57	3.12	3.18	A		-1.9	2.23 - 4.13	0.20	A
Cobalt-60	3.15	2.80	A		12.5	1.96 - 3.64	0.26	A
Curium-244	NR					False Positive Test		
Manganese-54	3.74	3.51	A		6.6	2.46 - 4.56	0.26	A
Neptunium-237	NR					False Positive Test		
Plutonium-238	0.0403	0.0444	A		-9.2	0.0311 - 0.0577	0.00292	A
Plutonium-239/240	0.0799	0.0921	A		-13.2	0.0645 - 0.1197	0.00548	A
Strontium-90	0.6142	0.6649	A		-7.6	0.4654 - 0.8644	0.07104	A
Uranium-234	0.148	0.1595	A		-7.2	0.1117 - 0.2074	0.00947	A
Uranium-238	0.155	0.1643	A		-5.7	0.1150 - 0.2136	0.00988	A
Zinc-65	-0.0072		A			False Positive Test	0.1584	

Radiological Reference Date: August 1, 2021

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Uncertainty Flags:

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

Notes:

(1) = False Positive



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

Laboratory Results For MAPEP-21-MaSF45

(WIPP01) WIPP Laboratories
 1400 University Drive
 Carlsbad, NM 88220

Radiological							Units: (Bq/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	5.49E-02	0.0586	A		-6.3	0.0410 - 0.0762	8.74E-03	W
Cesium-134	3.25E+00	3.07	A		5.9	2.15 - 3.99	1.95E-01	A
Cesium-137	5.65E+00	4.64	W		21.8	3.25 - 6.03	3.09E-01	A
Cobalt-57	3.87E+00	3.18	W		21.7	2.23 - 4.13	2.65E-01	A
Cobalt-60	3.25E+00	2.80	A		16.1	1.96 - 3.64	2.31E-01	A
Curium-244	NR					False Positive Test		
Manganese-54	4.32E+00	3.51	W		23.1	2.46 - 4.56	2.95E-01	A
Neptunium-237	NR					False Positive Test		
Plutonium-238	4.22E-02	0.0444	A		-5.0	0.0311 - 0.0577	1.05E-02	W
Plutonium-239/240	8.23E-02	0.0921	A		-10.6	0.0645 - 0.1197	2.04E-02	W
Strontium-90	5.19E-01	0.6649	W		-21.9	0.4654 - 0.8644	2.93E-02	A
Uranium-234	1.56E-01	0.1595	A		-2.2	0.1117 - 0.2074	1.46E-02	A
Uranium-238	1.56E-01	0.1643	A		-5.1	0.1150 - 0.2136	1.46E-02	A
Zinc-65	1.23E-01		A			False Positive Test	1.50E-01	

Radiological Reference Date: August 1, 2021

Results Flags:

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- N = Result not acceptable.....|Bias| > 30%
- RW = Report Warning
- NR = Not Reported

Uncertainty Flags:

- NOT ACCEPTABLE.....RP < 2%
- ACCEPTABLE.....2% <= RP <= 15%
- ACCEPTABLE WITH WARNING.....15% < RP <= 30%
- NOT ACCEPTABLE.....RP > 30%

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

Notes:

(1) = False Positive



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

Laboratory Results For MAPEP-21-MaSF45
 (WSHL01) Wisconsin State Laboratory of Hygiene
 2601 Agriculture Drive
 Madison, WI 53718

Radiological						Units: (Bq/sample)		
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	NR	0.0586				0.0410 - 0.0762		
Cesium-134	2.8	3.07	A		-8.8	2.15 - 3.99	0.108	A
Cesium-137	4.78	4.64	A		3.0	3.25 - 6.03	0.197	A
Cobalt-57	3.31	3.18	A		4.1	2.23 - 4.13	0.129	A
Cobalt-60	2.75	2.80	A		-1.8	1.96 - 3.64	0.178	A
Curium-244	NR					False Positive Test		
Manganese-54	3.31	3.51	A		-5.7	2.46 - 4.56	0.196	A
Neptunium-237	NR					False Positive Test		
Plutonium-238	NR	0.0444				0.0311 - 0.0577		
Plutonium-239/240	NR	0.0921				0.0645 - 0.1197		
Strontium-90	NR	0.6649				0.4654 - 0.8644		
Uranium-234	NR	0.1595				0.1117 - 0.2074		
Uranium-238	NR	0.1643				0.1150 - 0.2136		
Zinc-65	-0.192		A			False Positive Test	0.134	

Radiological Reference Date: August 1, 2021

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:

- NOT ACCEPTABLE.....RP < 2%
- ACCEPTABLE.....2% <= RP <= 15%
- ACCEPTABLE WITH WARNING.....15% < RP <= 30%
- NOT ACCEPTABLE.....RP > 30%

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

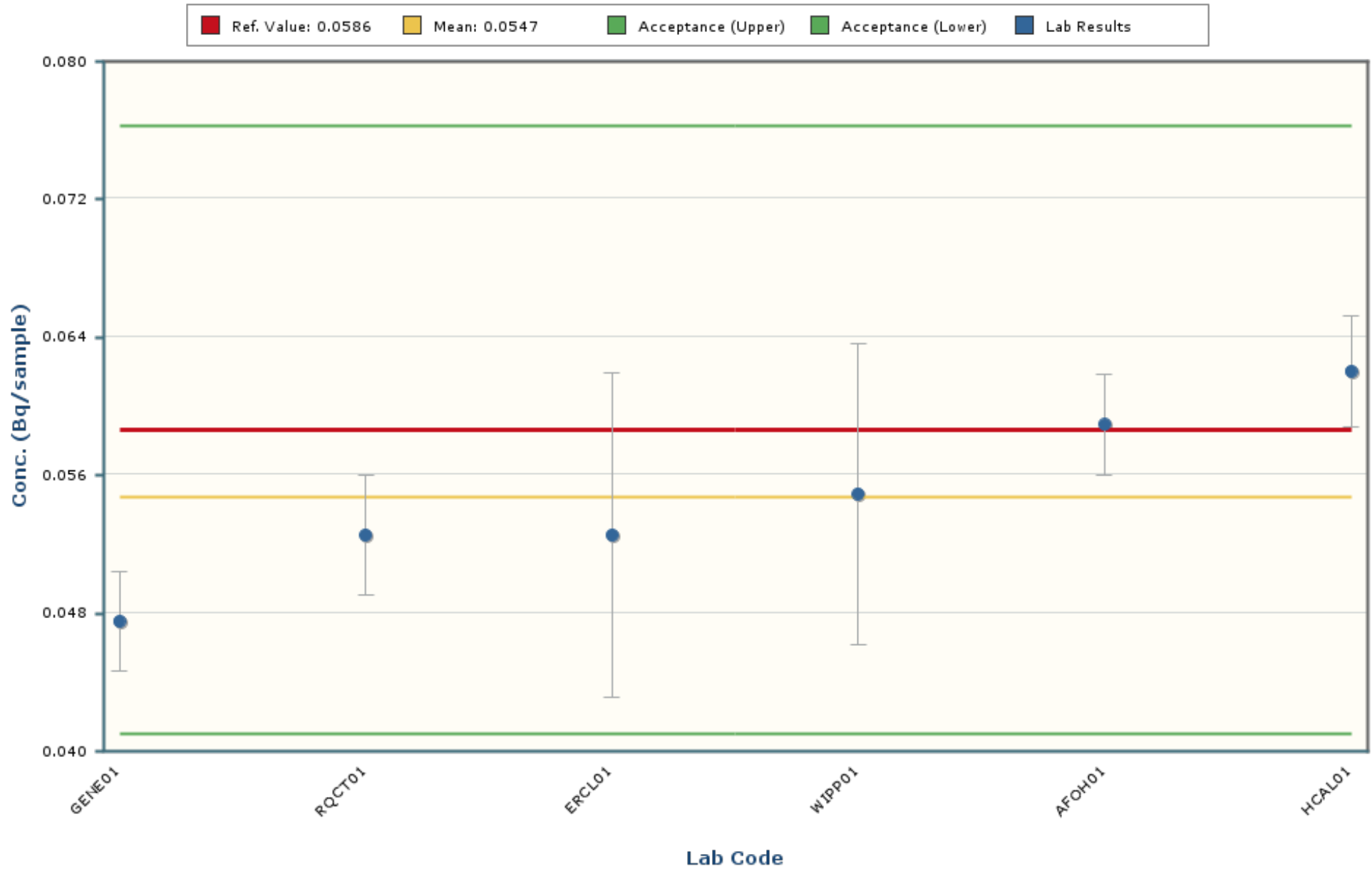
Radiological						Units: (Bq/sample)		
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag

Notes:

(1) = False Positive

Americium-241

MAPEP-21-MaSF45



Notes:

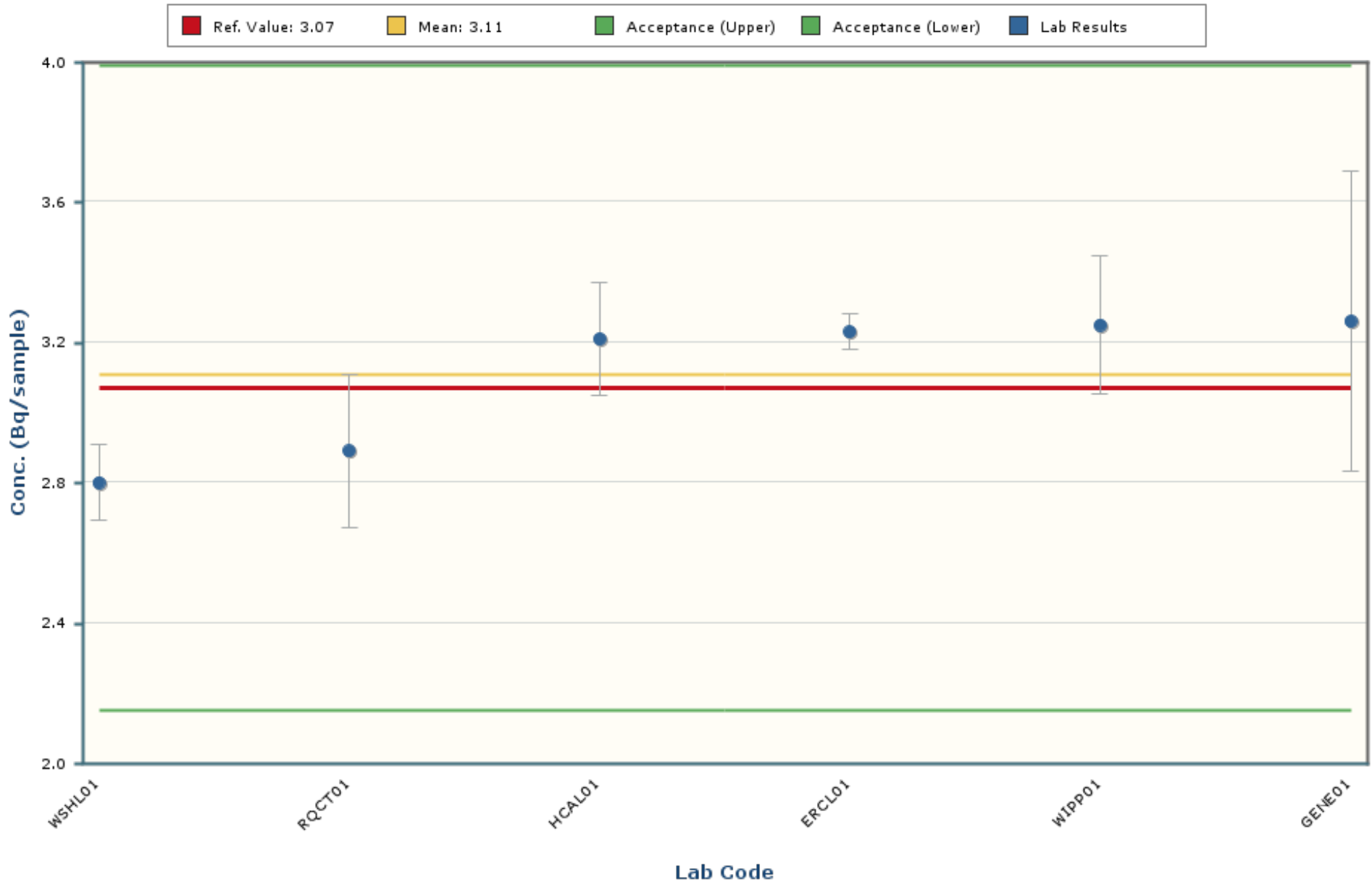
The chart mean excludes values outside of a bias range of $\pm 30\%$.

The chart shows only data points with values between 0.0290 and 0.0805 (± 5 Standard Deviations).

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

Cesium-134

MAPEP-21-MaSF45



Notes:

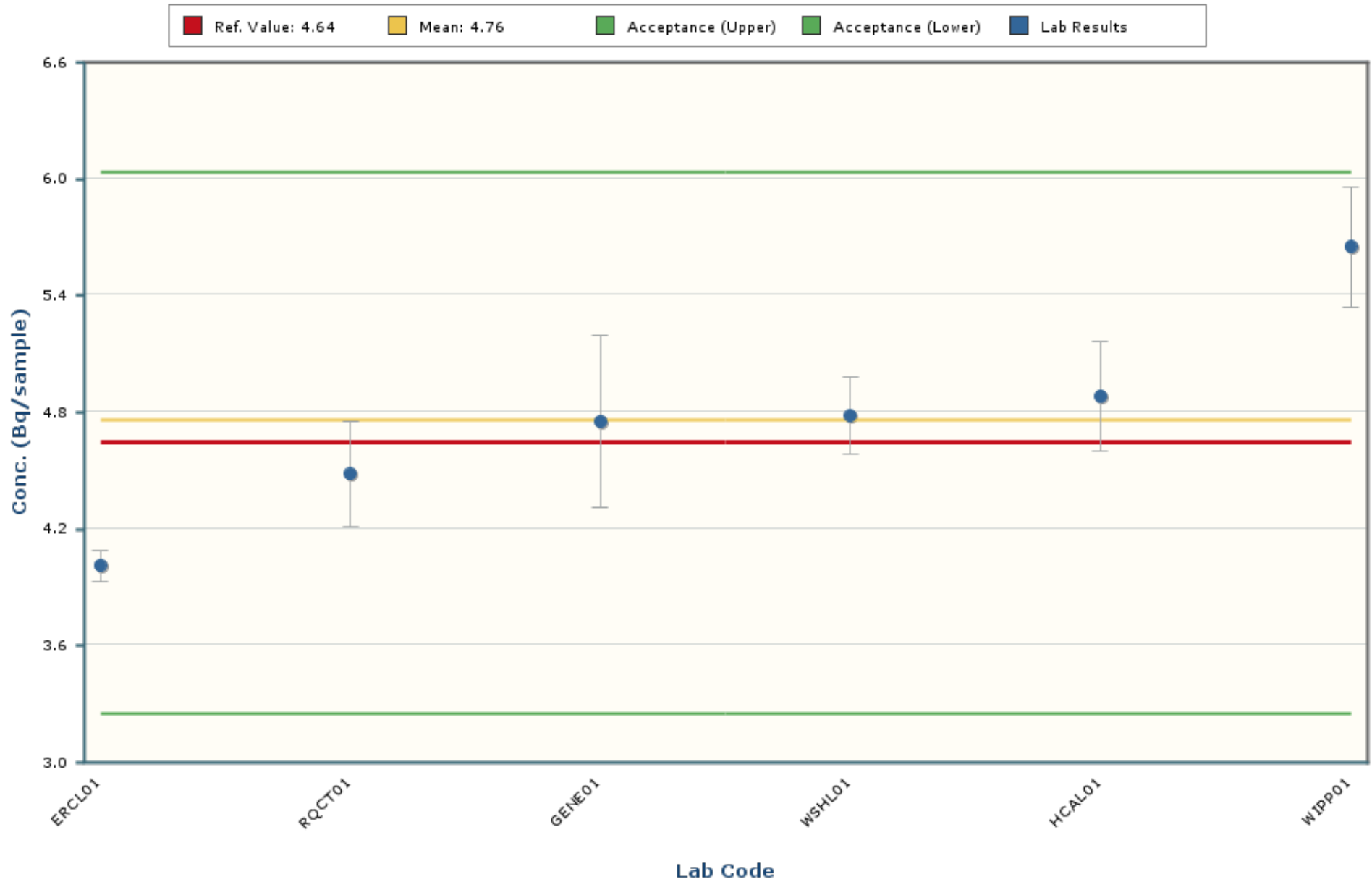
The chart mean excludes values outside of a bias range of $\pm 30\%$.

The chart shows only data points with values between 2.08 and 4.13 (± 5 Standard Deviations).

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

Cesium-137

MAPEP-21-MaSF45



Notes:

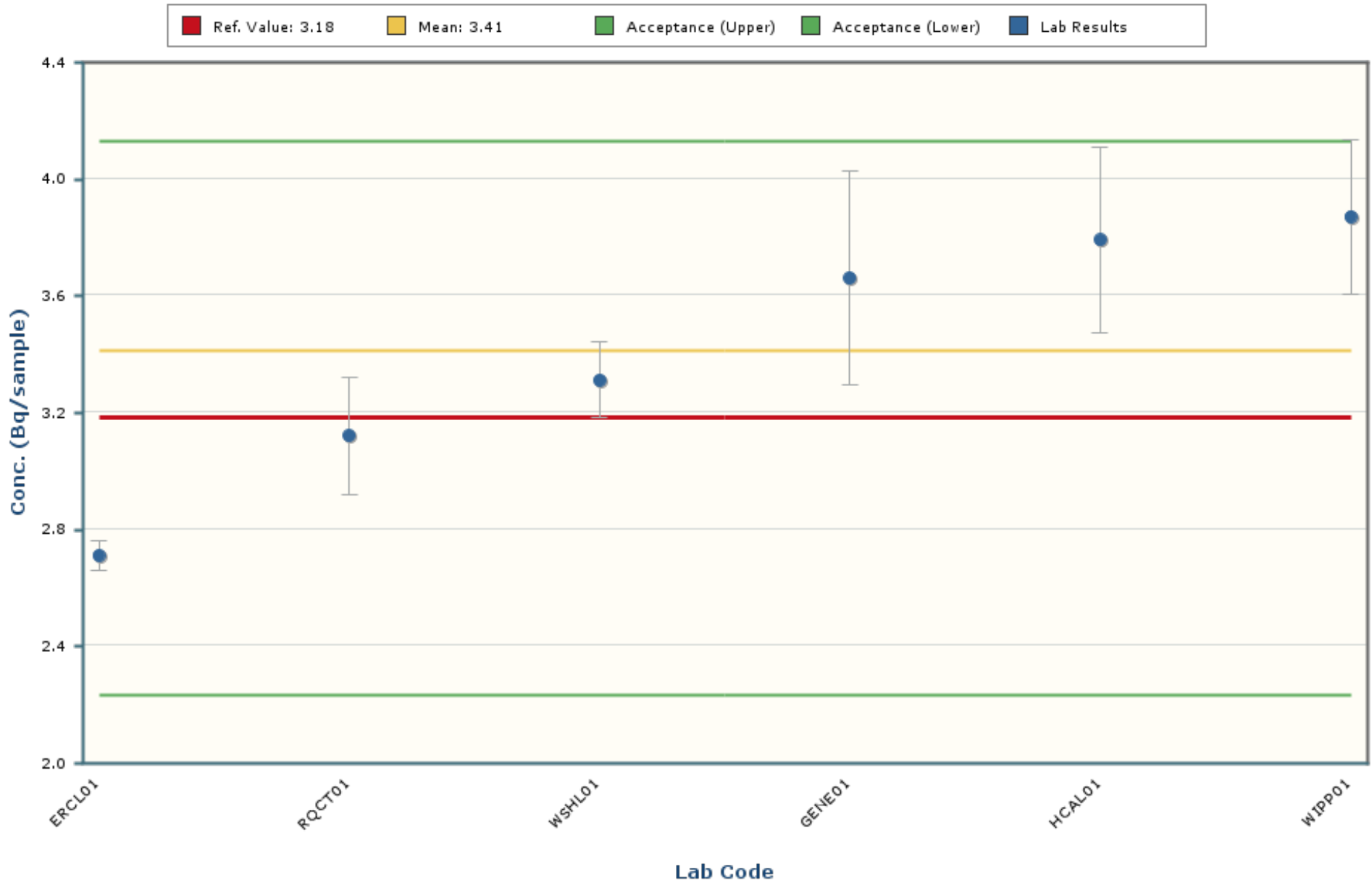
The chart mean excludes values outside of a bias range of $\pm 30\%$.

The chart shows only data points with values between 2.07 and 7.45 (± 5 Standard Deviations).

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

Cobalt-57

MAPEP-21-MaSF45



Notes:

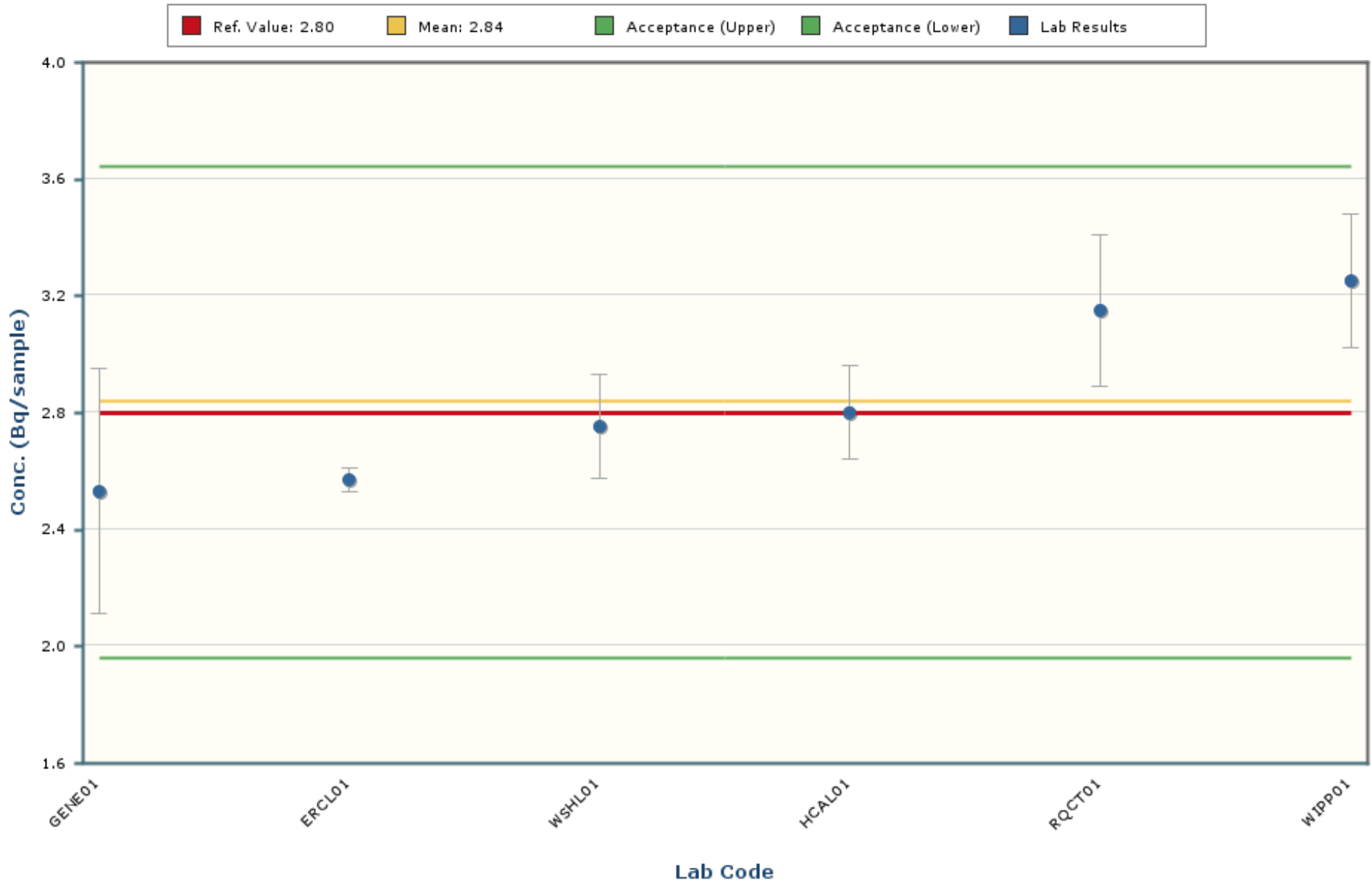
The chart mean excludes values outside of a bias range of $\pm 30\%$.

The chart shows only data points with values between 1.17 and 5.65 (± 5 Standard Deviations).

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

Cobalt-60

MAPEP-21-MaSF45



Notes:

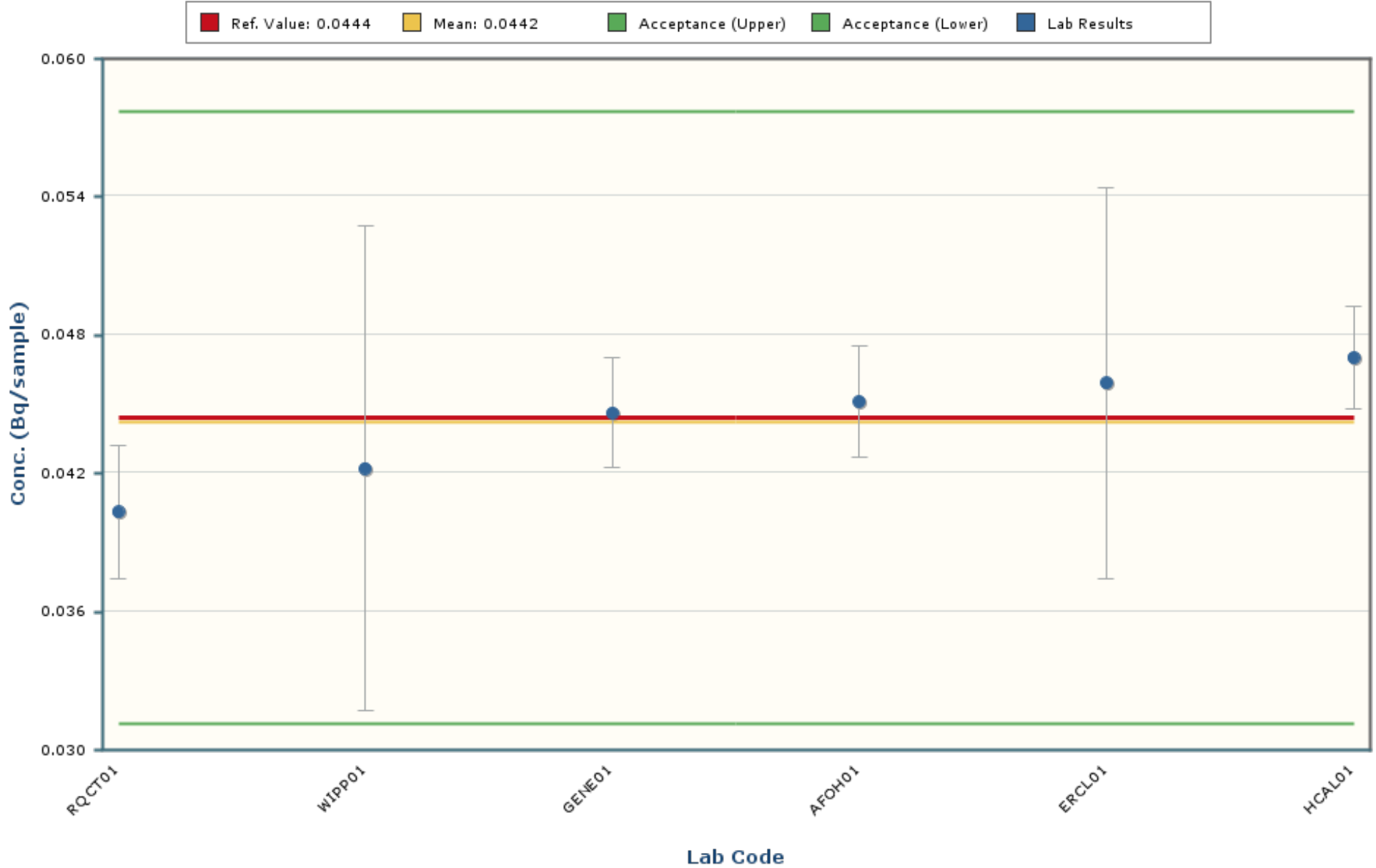
The chart mean excludes values outside of a bias range of $\pm 30\%$.

The chart shows only data points with values between 1.35 and 4.33 (± 5 Standard Deviations).

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

Plutonium-238

MAPEP-21-MaSF45



Notes:

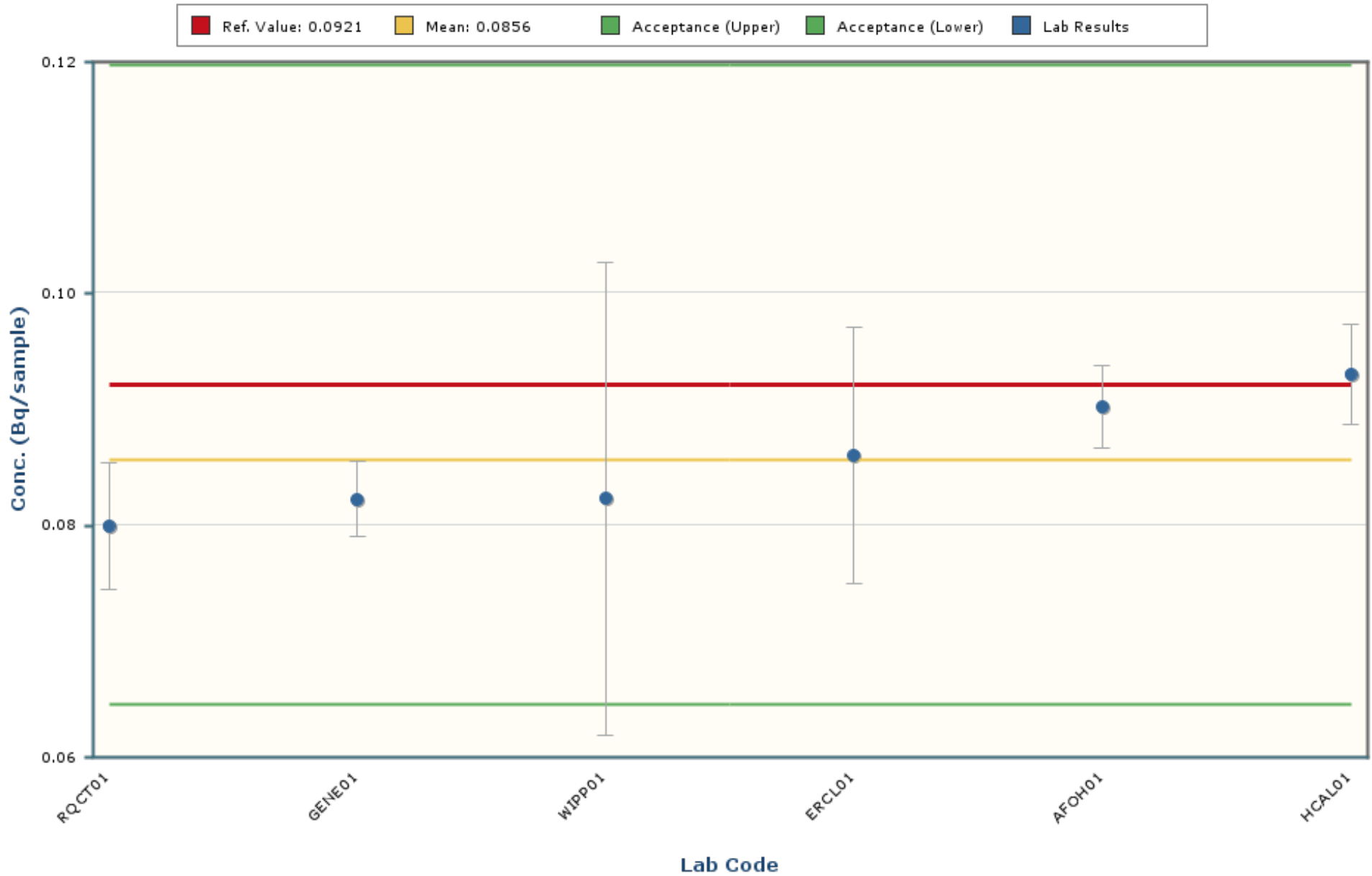
The chart mean excludes values outside of a bias range of $\pm 30\%$.

The chart shows only data points with values between 0.0318 and 0.0566 (± 5 Standard Deviations).

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

Plutonium-239/240

MAPEP-21-MaSF45



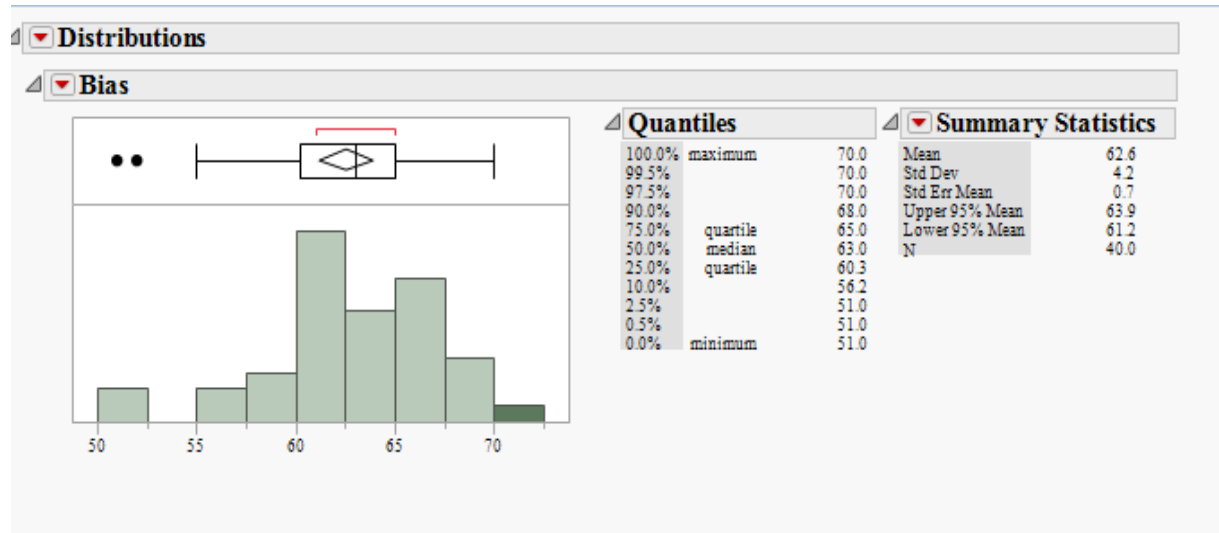
Notes:

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

The chart shows only data points with values between 0.0600 and 0.1112 (± 5 Standard Deviations).

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

The intent of the distribution graphs contained within this report is to graphically demonstrate to users how % Bias data within the current MAPEP Series appears when examined by matrix, by analyte, by method of sample preparation or by method of detection. Biases greater than +/- 100% have been screened from the data. The box plot of the bias data points and the mean visually illustrate the breadth of the distribution and where potential outliers in the distribution might lie. The statistics for the distribution plot are provided adjacent to the Bias plot. In some cases, N becomes very small and thus developed statistics may not accurately reflect estimates of the population if N were a significantly larger value.

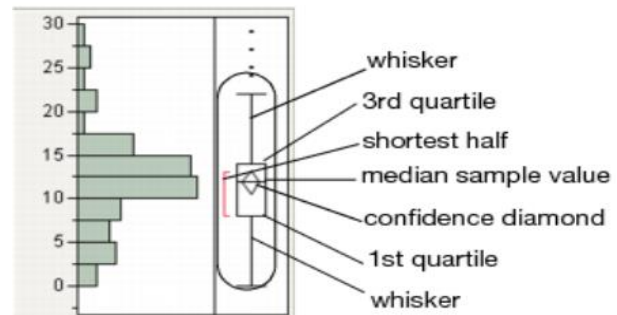


Outlier Box Plot

The BLACK small vertical line inside the small rectangle at the top of the data distribution graph is the median of the population of the bias shown for that analyte in the matrix. The confidence diamond contains the mean and the upper and lower 95% of the mean. If you drew a line through the middle of the diamond, you would have the mean. The top and bottom points of the diamond represent the upper and lower 95% of the mean. The ends of the box represent the 25th and 75th quantiles, also expressed as 1st and 3rd quartile. The difference between the 1st and 3rd quartiles is called the interquartile range. Each box has lines that extend from each end, sometimes called whiskers. The whiskers extend from the ends of the box to the outermost data point that falls within the distances computed as follows:

3rd quartile + 1.5*(interquartile range)

1st quartile - 1.5*(interquartile range)



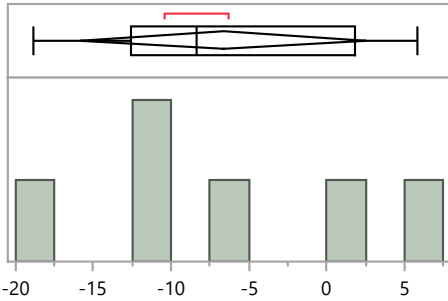
If the data points do not reach the computed ranges, then the whiskers are determined by the upper and lower data point values (not including outliers). The bracket outside of the box identifies the *shortest half*, which is the most dense 50% of the observations (Rousseuw and Leroy 1987).

MaSF45 Distribution by Detection Method

MaSF Distribution by Detection Method

Distributions Analyte_Detection=Americium-241 Alpha Spectrometry

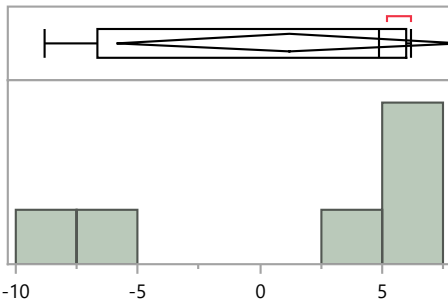
Bias



Quantiles			Summary Statistics	
100.0%	maximum	5.8	Mean	-6.6
99.5%		5.8	Std Dev	8.8
97.5%		5.8	Std Err Mean	3.6
90.0%		5.8	Upper 95% Mean	2.6
75.0%	quartile	1.8	Lower 95% Mean	-15.8
50.0%	median	-8.4	N	6.0
25.0%	quartile	-12.5		
10.0%		-18.9		
2.5%		-18.9		
0.5%		-18.9		
0.0%	minimum	-18.9		

Distributions Analyte_Detection=Cesium-134 Gamma Spectrometry

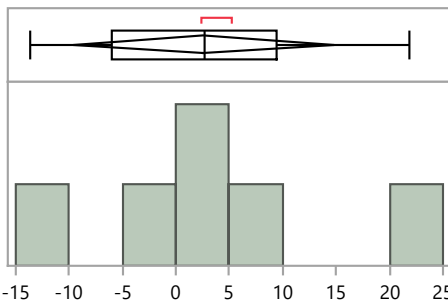
Bias



Quantiles			Summary Statistics	
100.0%	maximum	6.2	Mean	1.2
99.5%		6.2	Std Dev	6.7
97.5%		6.2	Std Err Mean	2.7
90.0%		6.2	Upper 95% Mean	8.2
75.0%	quartile	6.0	Lower 95% Mean	-5.8
50.0%	median	4.9	N	6.0
25.0%	quartile	-6.6		
10.0%		-8.8		
2.5%		-8.8		
0.5%		-8.8		
0.0%	minimum	-8.8		

Distributions Analyte_Detection=Cesium-137 Gamma Spectrometry

Bias



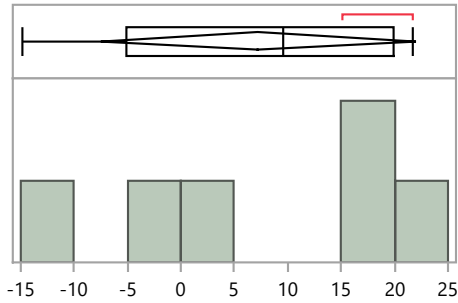
Quantiles			Summary Statistics	
100.0%	maximum	21.8	Mean	2.6
99.5%		21.8	Std Dev	11.6
97.5%		21.8	Std Err Mean	4.7
90.0%		21.8	Upper 95% Mean	14.8
75.0%	quartile	9.4	Lower 95% Mean	-9.6
50.0%	median	2.7	N	6.0
25.0%	quartile	-6.0		
10.0%		-13.6		
2.5%		-13.6		
0.5%		-13.6		
0.0%	minimum	-13.6		

MaSF45 Distribution by Detection Method

MaSF Distribution by Detection Method

Distributions Analyte_Detection=Cobalt-57 Gamma Spectrometry

Bias



Quantiles

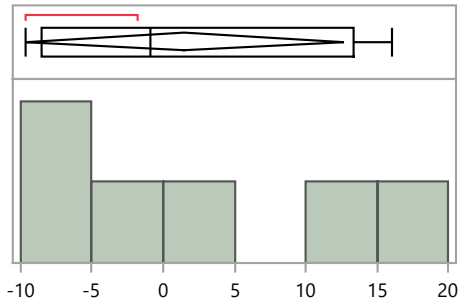
100.0%	maximum	21.7
99.5%		21.7
97.5%		21.7
90.0%		21.7
75.0%	quartile	19.8
50.0%	median	9.6
25.0%	quartile	-5.1
10.0%		-14.8
2.5%		-14.8
0.5%		-14.8
0.0%	minimum	-14.8

Summary Statistics

Mean	7.2
Std Dev	14.1
Std Err Mean	5.8
Upper 95% Mean	22.0
Lower 95% Mean	-7.6
N	6.0

Distributions Analyte_Detection=Cobalt-60 Gamma Spectrometry

Bias



Quantiles

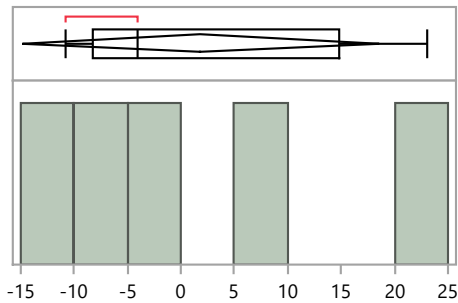
100.0%	maximum	16.1
99.5%		16.1
97.5%		16.1
90.0%		16.1
75.0%	quartile	13.4
50.0%	median	-0.9
25.0%	quartile	-8.6
10.0%		-9.6
2.5%		-9.6
0.5%		-9.6
0.0%	minimum	-9.6

Summary Statistics

Mean	1.5
Std Dev	10.6
Std Err Mean	4.3
Upper 95% Mean	12.7
Lower 95% Mean	-9.7
N	6.0

Distributions Analyte_Detection=Manganese-54 Gamma Spectrometry

Bias



Quantiles

100.0%	maximum	23.1
99.5%		23.1
97.5%		23.1
90.0%		23.1
75.0%	quartile	14.9
50.0%	median	-4.0
25.0%	quartile	-8.3
10.0%		-10.8
2.5%		-10.8
0.5%		-10.8
0.0%	minimum	-10.8

Summary Statistics

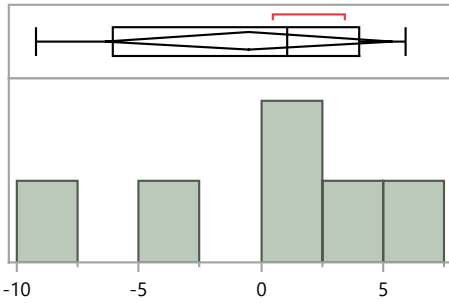
Mean	1.8
Std Dev	13.5
Std Err Mean	6.0
Upper 95% Mean	18.6
Lower 95% Mean	-14.9
N	5.0

MaSF45 Distribution by Detection Method

MaSF Distribution by Detection Method

Distributions Analyte_Detection=Plutonium-238 Alpha Spectrometry

Bias



Quantiles

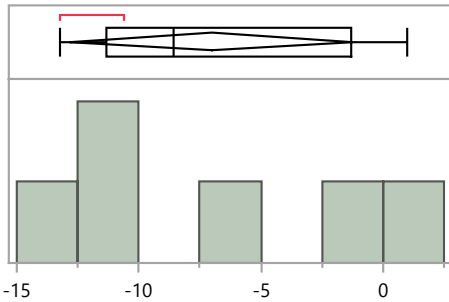
100.0%	maximum	5.9
99.5%		5.9
97.5%		5.9
90.0%		5.9
75.0%	quartile	4.0
50.0%	median	1.1
25.0%	quartile	-6.1
10.0%		-9.2
2.5%		-9.2
0.5%		-9.2
0.0%	minimum	-9.2

Summary Statistics

Mean	-0.5
Std Dev	5.6
Std Err Mean	2.3
Upper 95% Mean	5.4
Lower 95% Mean	-6.4
N	6.0

Distributions Analyte_Detection=Plutonium-239/240 Alpha Spectrometry

Bias



Quantiles

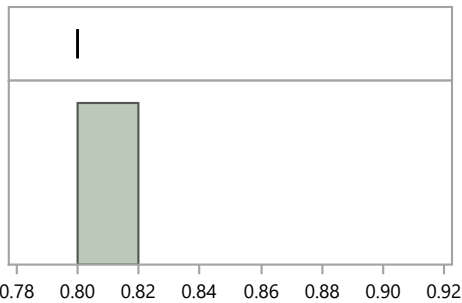
100.0%	maximum	1.0
99.5%		1.0
97.5%		1.0
90.0%		1.0
75.0%	quartile	-1.3
50.0%	median	-8.6
25.0%	quartile	-11.3
10.0%		-13.2
2.5%		-13.2
0.5%		-13.2
0.0%	minimum	-13.2

Summary Statistics

Mean	-7.0
Std Dev	5.5
Std Err Mean	2.3
Upper 95% Mean	-1.2
Lower 95% Mean	-12.8
N	6.0

Distributions Analyte_Detection=Strontium-90 Alpha Spectrometry

Bias



Quantiles

100.0%	maximum	0.8
99.5%		0.8
97.5%		0.8
90.0%		0.8
75.0%	quartile	0.8
50.0%	median	0.8
25.0%	quartile	0.8
10.0%		0.8
2.5%		0.8
0.5%		0.8
0.0%	minimum	0.8

Summary Statistics

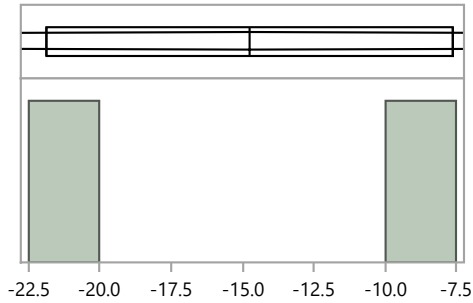
Mean	0.8
Std Dev	.
Std Err Mean	.
Upper 95% Mean	.
Lower 95% Mean	.
N	1.0

MaSF45 Distribution by Detection Method

MaSF Distribution by Detection Method

Distributions Analyte_Detection=Strontium-90 Gas Flow Proportional Counter

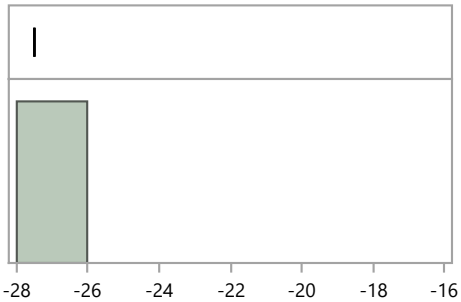
Bias



Quantiles			Summary Statistics	
100.0%	maximum	-7.6	Mean	-14.8
99.5%		-7.6	Std Dev	10.1
97.5%		-7.6	Std Err Mean	7.2
90.0%		-7.6	Upper 95% Mean	76.1
75.0%	quartile	-7.6	Lower 95% Mean	-105.6
50.0%	median	-14.8	N	2.0
25.0%	quartile	-21.9		
10.0%		-21.9		
2.5%		-21.9		
0.5%		-21.9		
0.0%	minimum	-21.9		

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

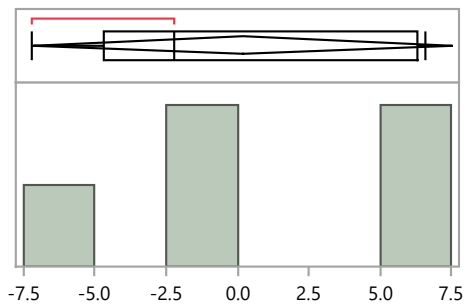
Bias



Quantiles			Summary Statistics	
100.0%	maximum	-27.5	Mean	-27.5
99.5%		-27.5	Std Dev	.
97.5%		-27.5	Std Err Mean	.
90.0%		-27.5	Upper 95% Mean	.
75.0%	quartile	-27.5	Lower 95% Mean	.
50.0%	median	-27.5	N	1.0
25.0%	quartile	-27.5		
10.0%		-27.5		
2.5%		-27.5		
0.5%		-27.5		
0.0%	minimum	-27.5		

Distributions Analyte_Detection=Uranium-234 Alpha Spectrometry

Bias



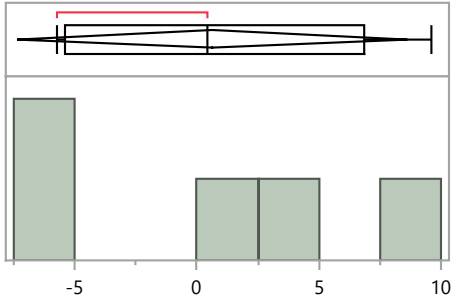
Quantiles			Summary Statistics	
100.0%	maximum	6.6	Mean	0.2
99.5%		6.6	Std Dev	5.9
97.5%		6.6	Std Err Mean	2.7
90.0%		6.6	Upper 95% Mean	7.6
75.0%	quartile	6.3	Lower 95% Mean	-7.2
50.0%	median	-2.2	N	5.0
25.0%	quartile	-4.7		
10.0%		-7.2		
2.5%		-7.2		
0.5%		-7.2		
0.0%	minimum	-7.2		

MaSF45 Distribution by Detection Method

MaSF Distribution by Detection Method

Distributions Analyte_Detection=Uranium-238 Alpha Spectrometry

Bias



Quantiles

100.0%	maximum	9.6
99.5%		9.6
97.5%		9.6
90.0%		9.6
75.0%	quartile	6.9
50.0%	median	0.4
25.0%	quartile	-5.4
10.0%		-5.7
2.5%		-5.7
0.5%		-5.7
0.0%	minimum	-5.7

Summary Statistics

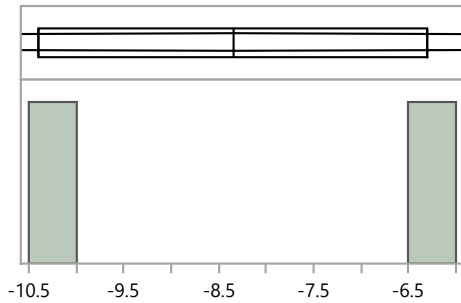
Mean	0.7
Std Dev	6.4
Std Err Mean	2.9
Upper 95% Mean	8.6
Lower 95% Mean	-7.3
N	5.0

MaSF45 Distribution by Preparation Method

MaSF Distribution by Prep Method

Distributions Analyte_Method=Americium-241 Acid dissolution with hydrofluoric acid

Bias



Quantiles

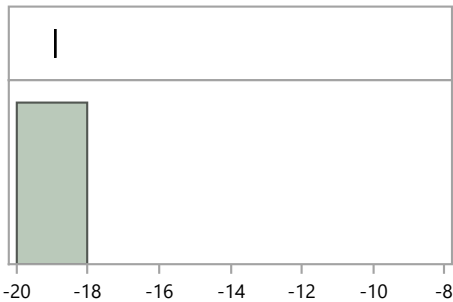
100.0%	maximum	-6.3
99.5%		-6.3
97.5%		-6.3
90.0%		-6.3
75.0%	quartile	-6.3
50.0%	median	-8.4
25.0%	quartile	-10.4
10.0%		-10.4
2.5%		-10.4
0.5%		-10.4
0.0%	minimum	-10.4

Summary Statistics

Mean	-8.4
Std Dev	2.9
Std Err Mean	2.1
Upper 95% Mean	17.7
Lower 95% Mean	-34.4
N	2.0

Distributions Analyte_Method=Americium-241 Coprecipitation, straight

Bias



Quantiles

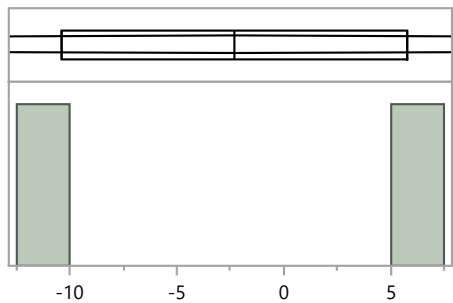
100.0%	maximum	-18.9
99.5%		-18.9
97.5%		-18.9
90.0%		-18.9
75.0%	quartile	-18.9
50.0%	median	-18.9
25.0%	quartile	-18.9
10.0%		-18.9
2.5%		-18.9
0.5%		-18.9
0.0%	minimum	-18.9

Summary Statistics

Mean	-18.9
Std Dev	.
Std Err Mean	.
Upper 95% Mean	.
Lower 95% Mean	.
N	1.0

Distributions Analyte_Method=Americium-241 Other

Bias



Quantiles

100.0%	maximum	5.8
99.5%		5.8
97.5%		5.8
90.0%		5.8
75.0%	quartile	5.8
50.0%	median	-2.3
25.0%	quartile	-10.4
10.0%		-10.4
2.5%		-10.4
0.5%		-10.4
0.0%	minimum	-10.4

Summary Statistics

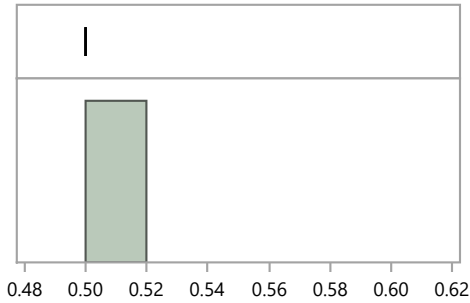
Mean	-2.3
Std Dev	11.5
Std Err Mean	8.1
Upper 95% Mean	100.6
Lower 95% Mean	-105.2
N	2.0

MaSF45 Distribution by Preparation Method

MaSF Distribution by Prep Method

Distributions Analyte_Method=Americium-241 Total dissolution by fusion

Bias



Quantiles

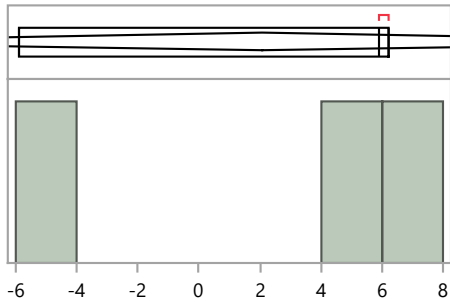
100.0%	maximum	0.5
99.5%		0.5
97.5%		0.5
90.0%		0.5
75.0%	quartile	0.5
50.0%	median	0.5
25.0%	quartile	0.5
10.0%		0.5
2.5%		0.5
0.5%		0.5
0.0%	minimum	0.5

Summary Statistics

Mean	0.5
Std Dev	.
Std Err Mean	.
Upper 95% Mean	.
Lower 95% Mean	.
N	1.0

Distributions Analyte_Method=Cesium-134 Acid dissolution with hydrofluoric acid

Bias



Quantiles

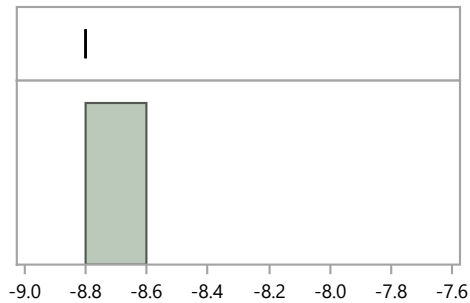
100.0%	maximum	6.2
99.5%		6.2
97.5%		6.2
90.0%		6.2
75.0%	quartile	6.2
50.0%	median	5.9
25.0%	quartile	-5.9
10.0%		-5.9
2.5%		-5.9
0.5%		-5.9
0.0%	minimum	-5.9

Summary Statistics

Mean	2.1
Std Dev	6.9
Std Err Mean	4.0
Upper 95% Mean	19.2
Lower 95% Mean	-15.1
N	3.0

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

Bias



Quantiles

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

Summary Statistics

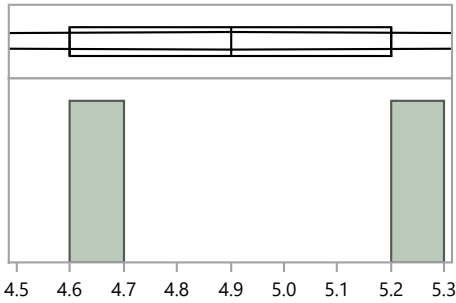
Mean	-8.8
Std Dev	.
Std Err Mean	.
Upper 95% Mean	.
Lower 95% Mean	.
N	1.0

MaSF45 Distribution by Preparation Method

MaSF Distribution by Prep Method

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

Bias



Quantiles

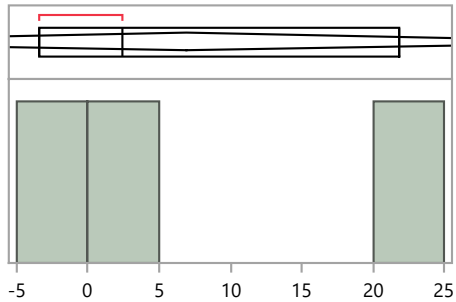
100.0%	maximum	5.2
99.5%		5.2
97.5%		5.2
90.0%		5.2
75.0%	quartile	5.2
50.0%	median	4.9
25.0%	quartile	4.6
10.0%		4.6
2.5%		4.6
0.5%		4.6
0.0%	minimum	4.6

Summary Statistics

Mean	4.9
Std Dev	0.4
Std Err Mean	0.3
Upper 95% Mean	8.7
Lower 95% Mean	1.1
N	2.0

Distributions Analyte_Method=Cesium-137 Acid dissolution with hydrofluoric acid

Bias



Quantiles

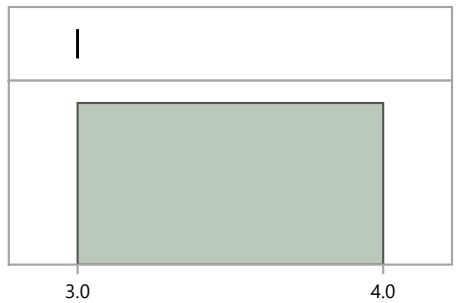
100.0%	maximum	21.8
99.5%		21.8
97.5%		21.8
90.0%		21.8
75.0%	quartile	21.8
50.0%	median	2.4
25.0%	quartile	-3.4
10.0%		-3.4
2.5%		-3.4
0.5%		-3.4
0.0%	minimum	-3.4

Summary Statistics

Mean	6.9
Std Dev	13.2
Std Err Mean	7.6
Upper 95% Mean	39.7
Lower 95% Mean	-25.9
N	3.0

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

Bias



Quantiles

100.0%	maximum	3.0
99.5%		3.0
97.5%		3.0
90.0%		3.0
75.0%	quartile	3.0
50.0%	median	3.0
25.0%	quartile	3.0
10.0%		3.0
2.5%		3.0
0.5%		3.0
0.0%	minimum	3.0

Summary Statistics

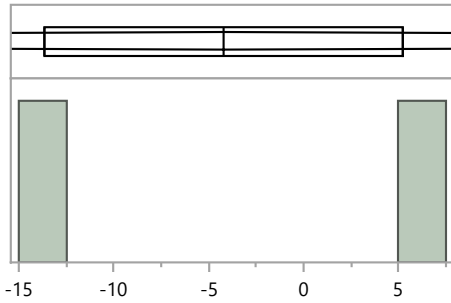
Mean	3.0
Std Dev	.
Std Err Mean	.
Upper 95% Mean	.
Lower 95% Mean	.
N	1.0

MaSF45 Distribution by Preparation Method

MaSF Distribution by Prep Method

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

Bias



Quantiles

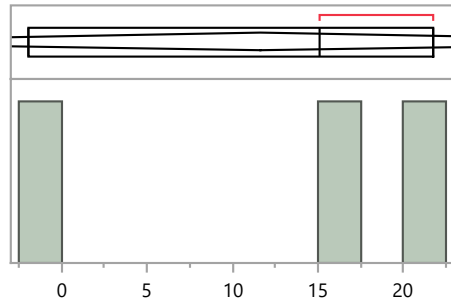
100.0%	maximum	5.2
99.5%		5.2
97.5%		5.2
90.0%		5.2
75.0%	quartile	5.2
50.0%	median	-4.2
25.0%	quartile	-13.6
10.0%		-13.6
2.5%		-13.6
0.5%		-13.6
0.0%	minimum	-13.6

Summary Statistics

Mean	-4.2
Std Dev	13.3
Std Err Mean	9.4
Upper 95% Mean	115.2
Lower 95% Mean	-123.6
N	2.0

Distributions Analyte_Method=Cobalt-57 Acid dissolution with hydrofluoric acid

Bias



Quantiles

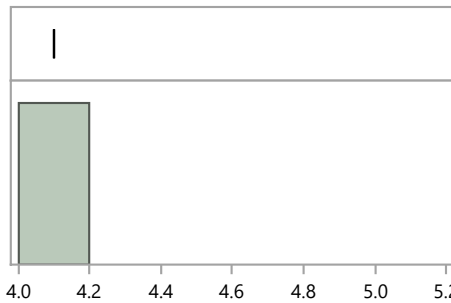
100.0%	maximum	21.7
99.5%		21.7
97.5%		21.7
90.0%		21.7
75.0%	quartile	21.7
50.0%	median	15.1
25.0%	quartile	-1.9
10.0%		-1.9
2.5%		-1.9
0.5%		-1.9
0.0%	minimum	-1.9

Summary Statistics

Mean	11.6
Std Dev	12.2
Std Err Mean	7.0
Upper 95% Mean	41.9
Lower 95% Mean	-18.6
N	3.0

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

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

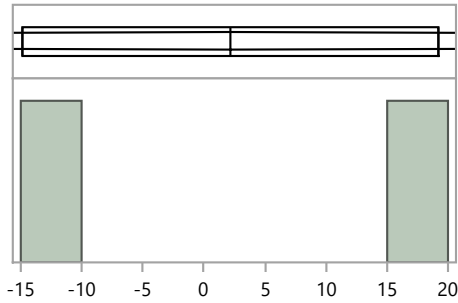
Mean	4.1
Std Dev	.
Std Err Mean	.
Upper 95% Mean	.
Lower 95% Mean	.
N	1.0

MaSF45 Distribution by Preparation Method

MaSF Distribution by Prep Method

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

Bias



Quantiles

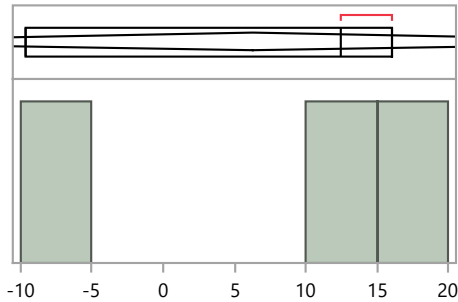
100.0%	maximum	19.2
99.5%		19.2
97.5%		19.2
90.0%		19.2
75.0%	quartile	19.2
50.0%	median	2.2
25.0%	quartile	-14.8
10.0%		-14.8
2.5%		-14.8
0.5%		-14.8
0.0%	minimum	-14.8

Summary Statistics

Mean	2.2
Std Dev	24.0
Std Err Mean	17.0
Upper 95% Mean	218.2
Lower 95% Mean	-213.8
N	2.0

Distributions Analyte_Method=Cobalt-60 Acid dissolution with hydrofluoric acid

Bias



Quantiles

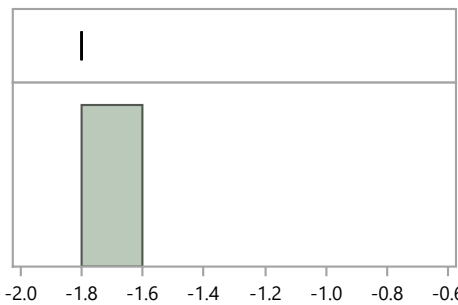
100.0%	maximum	16.1
99.5%		16.1
97.5%		16.1
90.0%		16.1
75.0%	quartile	16.1
50.0%	median	12.5
25.0%	quartile	-9.6
10.0%		-9.6
2.5%		-9.6
0.5%		-9.6
0.0%	minimum	-9.6

Summary Statistics

Mean	6.3
Std Dev	13.9
Std Err Mean	8.0
Upper 95% Mean	40.9
Lower 95% Mean	-28.2
N	3.0

Distributions Analyte_Method=Cobalt-60 EPA 901.1, Gamma Emitting, 600/4-80-032

Bias



Quantiles

100.0%	maximum	-1.8
99.5%		-1.8
97.5%		-1.8
90.0%		-1.8
75.0%	quartile	-1.8
50.0%	median	-1.8
25.0%	quartile	-1.8
10.0%		-1.8
2.5%		-1.8
0.5%		-1.8
0.0%	minimum	-1.8

Summary Statistics

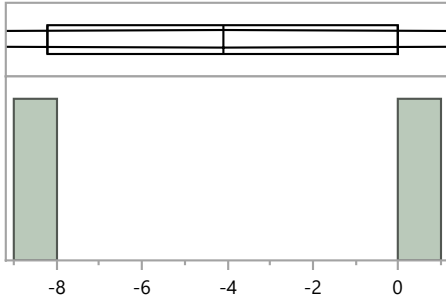
Mean	-1.8
Std Dev	.
Std Err Mean	.
Upper 95% Mean	.
Lower 95% Mean	.
N	1.0

MaSF45 Distribution by Preparation Method

MaSF Distribution by Prep Method

Distributions Analyte_Method=Cobalt-60 No preparation - analyzed as received

Bias



Quantiles

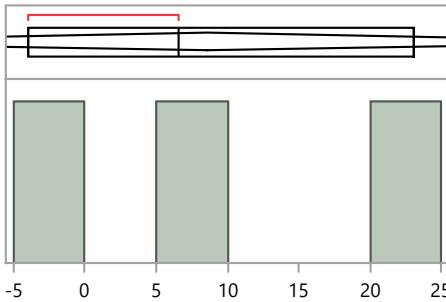
100.0%	maximum	0.0
99.5%		0.0
97.5%		0.0
90.0%		0.0
75.0%	quartile	0.0
50.0%	median	-4.1
25.0%	quartile	-8.2
10.0%		-8.2
2.5%		-8.2
0.5%		-8.2
0.0%	minimum	-8.2

Summary Statistics

Mean	-4.1
Std Dev	5.8
Std Err Mean	4.1
Upper 95% Mean	48.0
Lower 95% Mean	-56.2
N	2.0

Distributions Analyte_Method=Manganese-54 Acid dissolution with hydrofluoric acid

Bias



Quantiles

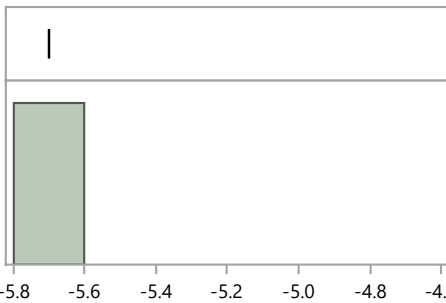
100.0%	maximum	23.1
99.5%		23.1
97.5%		23.1
90.0%		23.1
75.0%	quartile	23.1
50.0%	median	6.6
25.0%	quartile	-4.0
10.0%		-4.0
2.5%		-4.0
0.5%		-4.0
0.0%	minimum	-4.0

Summary Statistics

Mean	8.6
Std Dev	13.7
Std Err Mean	7.9
Upper 95% Mean	42.5
Lower 95% Mean	-25.4
N	3.0

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

Bias



Quantiles

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

Summary Statistics

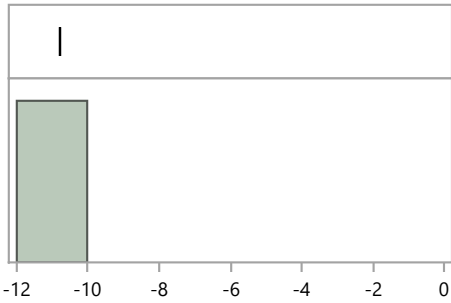
Mean	-5.7
Std Dev	.
Std Err Mean	.
Upper 95% Mean	.
Lower 95% Mean	.
N	1.0

MaSF45 Distribution by Preparation Method

MaSF Distribution by Prep Method

Distributions Analyte_Method=Manganese-54 No preparation - analyzed as received

Bias



Quantiles

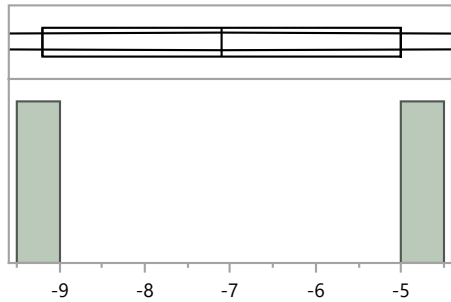
100.0%	maximum	-10.8
99.5%		-10.8
97.5%		-10.8
90.0%		-10.8
75.0%	quartile	-10.8
50.0%	median	-10.8
25.0%	quartile	-10.8
10.0%		-10.8
2.5%		-10.8
0.5%		-10.8
0.0%	minimum	-10.8

Summary Statistics

Mean	-10.8
Std Dev	.
Std Err Mean	.
Upper 95% Mean	.
Lower 95% Mean	.
N	1.0

Distributions Analyte_Method=Plutonium-238 Acid dissolution with hydrofluoric acid

Bias



Quantiles

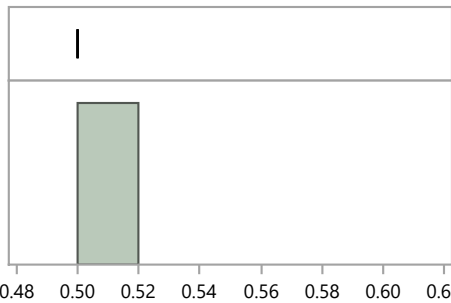
100.0%	maximum	-5.0
99.5%		-5.0
97.5%		-5.0
90.0%		-5.0
75.0%	quartile	-5.0
50.0%	median	-7.1
25.0%	quartile	-9.2
10.0%		-9.2
2.5%		-9.2
0.5%		-9.2
0.0%	minimum	-9.2

Summary Statistics

Mean	-7.1
Std Dev	3.0
Std Err Mean	2.1
Upper 95% Mean	19.6
Lower 95% Mean	-33.8
N	2.0

Distributions Analyte_Method=Plutonium-238 Coprecipitation, straight

Bias



Quantiles

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

Summary Statistics

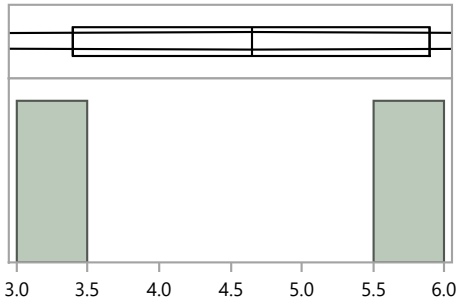
Mean	0.5
Std Dev	.
Std Err Mean	.
Upper 95% Mean	.
Lower 95% Mean	.
N	1.0

MaSF45 Distribution by Preparation Method

MaSF Distribution by Prep Method

Distributions Analyte_Method=Plutonium-238 Other

Bias



Quantiles

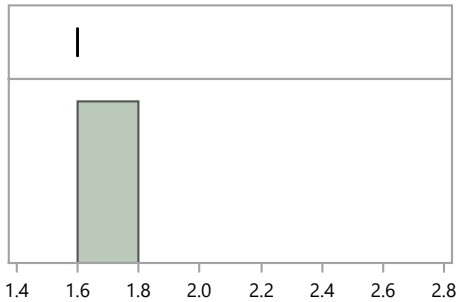
100.0%	maximum	5.9
99.5%		5.9
97.5%		5.9
90.0%		5.9
75.0%	quartile	5.9
50.0%	median	4.7
25.0%	quartile	3.4
10.0%		3.4
2.5%		3.4
0.5%		3.4
0.0%	minimum	3.4

Summary Statistics

Mean	4.7
Std Dev	1.8
Std Err Mean	1.3
Upper 95% Mean	20.5
Lower 95% Mean	-11.2
N	2.0

Distributions Analyte_Method=Plutonium-238 Total dissolution by fusion

Bias



Quantiles

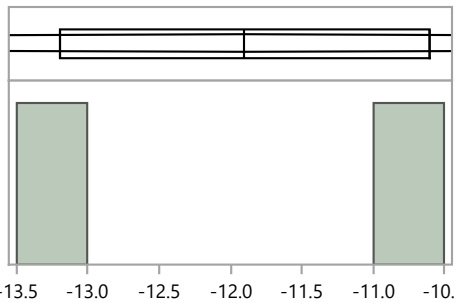
100.0%	maximum	1.6
99.5%		1.6
97.5%		1.6
90.0%		1.6
75.0%	quartile	1.6
50.0%	median	1.6
25.0%	quartile	1.6
10.0%		1.6
2.5%		1.6
0.5%		1.6
0.0%	minimum	1.6

Summary Statistics

Mean	1.6
Std Dev	.
Std Err Mean	.
Upper 95% Mean	.
Lower 95% Mean	.
N	1.0

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

Bias



Quantiles

100.0%	maximum	-10.6
99.5%		-10.6
97.5%		-10.6
90.0%		-10.6
75.0%	quartile	-10.6
50.0%	median	-11.9
25.0%	quartile	-13.2
10.0%		-13.2
2.5%		-13.2
0.5%		-13.2
0.0%	minimum	-13.2

Summary Statistics

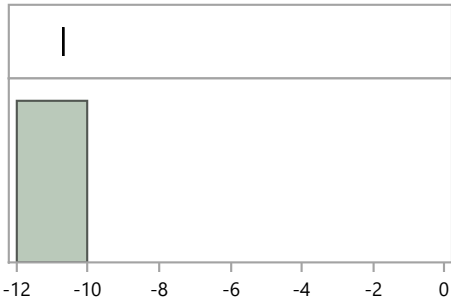
Mean	-11.9
Std Dev	1.8
Std Err Mean	1.3
Upper 95% Mean	4.6
Lower 95% Mean	-28.4
N	2.0

MaSF45 Distribution by Preparation Method

MaSF Distribution by Prep Method

Distributions Analyte_Method=Plutonium-239/240 Coprecipitation, straight

Bias



Quantiles

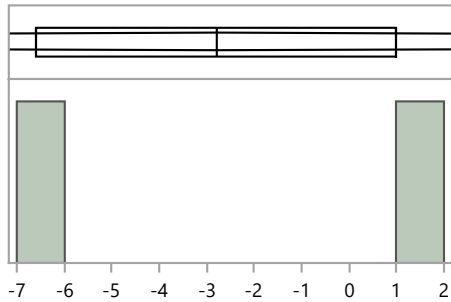
100.0%	maximum	-10.7
99.5%		-10.7
97.5%		-10.7
90.0%		-10.7
75.0%	quartile	-10.7
50.0%	median	-10.7
25.0%	quartile	-10.7
10.0%		-10.7
2.5%		-10.7
0.5%		-10.7
0.0%	minimum	-10.7

Summary Statistics

Mean	-10.7
Std Dev	.
Std Err Mean	.
Upper 95% Mean	.
Lower 95% Mean	.
N	1.0

Distributions Analyte_Method=Plutonium-239/240 Other

Bias



Quantiles

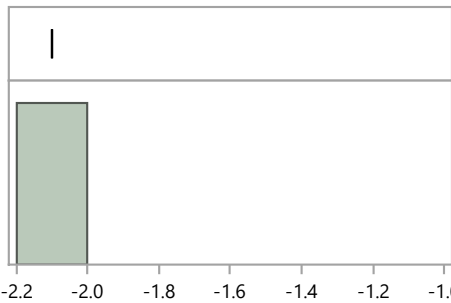
100.0%	maximum	1.0
99.5%		1.0
97.5%		1.0
90.0%		1.0
75.0%	quartile	1.0
50.0%	median	-2.8
25.0%	quartile	-6.6
10.0%		-6.6
2.5%		-6.6
0.5%		-6.6
0.0%	minimum	-6.6

Summary Statistics

Mean	-2.8
Std Dev	5.4
Std Err Mean	3.8
Upper 95% Mean	45.5
Lower 95% Mean	-51.1
N	2.0

Distributions Analyte_Method=Plutonium-239/240 Total dissolution by fusion

Bias



Quantiles

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

Summary Statistics

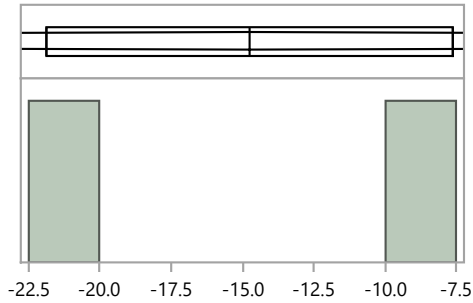
Mean	-2.1
Std Dev	.
Std Err Mean	.
Upper 95% Mean	.
Lower 95% Mean	.
N	1.0

MaSF45 Distribution by Preparation Method

MaSF Distribution by Prep Method

Distributions Analyte_Method=Strontium-90 Acid dissolution with hydrofluoric acid

Bias



Quantiles

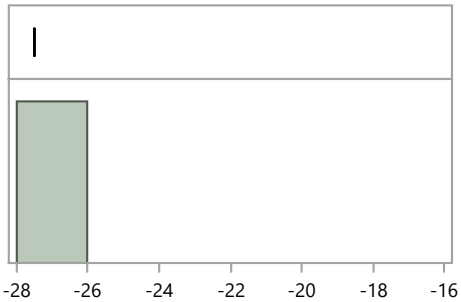
100.0%	maximum	-7.6
99.5%		-7.6
97.5%		-7.6
90.0%		-7.6
75.0%	quartile	-7.6
50.0%	median	-14.8
25.0%	quartile	-21.9
10.0%		-21.9
2.5%		-21.9
0.5%		-21.9
0.0%	minimum	-21.9

Summary Statistics

Mean	-14.8
Std Dev	10.1
Std Err Mean	7.2
Upper 95% Mean	76.1
Lower 95% Mean	-105.6
N	2.0

Distributions Analyte_Method=Strontium-90 Other

Bias



Quantiles

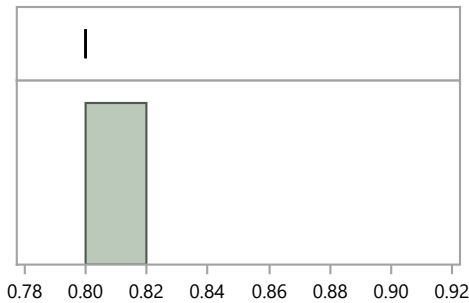
100.0%	maximum	-27.5
99.5%		-27.5
97.5%		-27.5
90.0%		-27.5
75.0%	quartile	-27.5
50.0%	median	-27.5
25.0%	quartile	-27.5
10.0%		-27.5
2.5%		-27.5
0.5%		-27.5
0.0%	minimum	-27.5

Summary Statistics

Mean	-27.5
Std Dev	.
Std Err Mean	.
Upper 95% Mean	.
Lower 95% Mean	.
N	1.0

Distributions Analyte_Method=Strontium-90 Total dissolution by fusion

Bias



Quantiles

100.0%	maximum	0.8
99.5%		0.8
97.5%		0.8
90.0%		0.8
75.0%	quartile	0.8
50.0%	median	0.8
25.0%	quartile	0.8
10.0%		0.8
2.5%		0.8
0.5%		0.8
0.0%	minimum	0.8

Summary Statistics

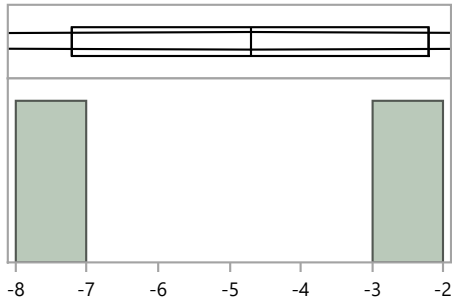
Mean	0.8
Std Dev	.
Std Err Mean	.
Upper 95% Mean	.
Lower 95% Mean	.
N	1.0

MaSF45 Distribution by Preparation Method

MaSF Distribution by Prep Method

Distributions Analyte_Method=Uranium-234 Acid dissolution with hydrofluoric acid

Bias



Quantiles

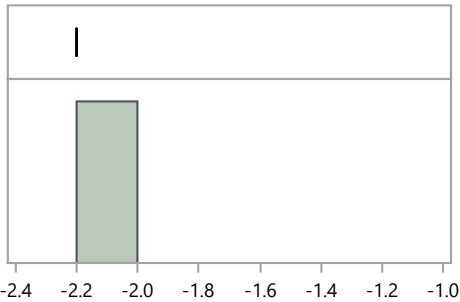
100.0%	maximum	-2.2
99.5%		-2.2
97.5%		-2.2
90.0%		-2.2
75.0%	quartile	-2.2
50.0%	median	-4.7
25.0%	quartile	-7.2
10.0%		-7.2
2.5%		-7.2
0.5%		-7.2
0.0%	minimum	-7.2

Summary Statistics

Mean	-4.7
Std Dev	3.5
Std Err Mean	2.5
Upper 95% Mean	27.1
Lower 95% Mean	-36.5
N	2.0

Distributions Analyte_Method=Uranium-234 Coprecipitation, straight

Bias



Quantiles

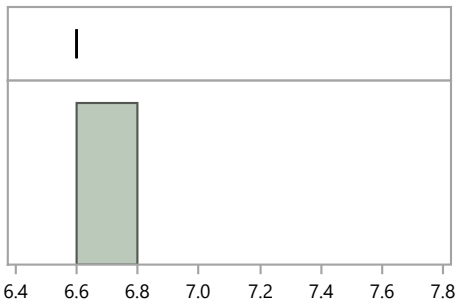
100.0%	maximum	-2.2
99.5%		-2.2
97.5%		-2.2
90.0%		-2.2
75.0%	quartile	-2.2
50.0%	median	-2.2
25.0%	quartile	-2.2
10.0%		-2.2
2.5%		-2.2
0.5%		-2.2
0.0%	minimum	-2.2

Summary Statistics

Mean	-2.2
Std Dev	.
Std Err Mean	.
Upper 95% Mean	.
Lower 95% Mean	.
N	1.0

Distributions Analyte_Method=Uranium-234 Other

Bias



Quantiles

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

Summary Statistics

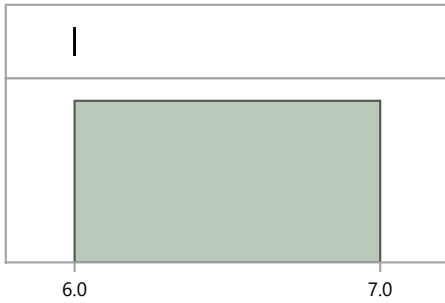
Mean	6.6
Std Dev	.
Std Err Mean	.
Upper 95% Mean	.
Lower 95% Mean	.
N	1.0

MaSF45 Distribution by Preparation Method

MaSF Distribution by Prep Method

Distributions Analyte_Method=Uranium-234 Total dissolution by fusion

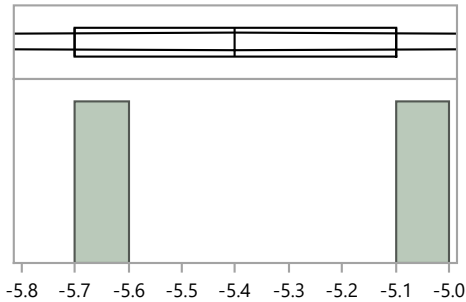
Bias



Quantiles			Summary Statistics	
100.0%	maximum	6.0	Mean	6.0
99.5%		6.0	Std Dev	.
97.5%		6.0	Std Err Mean	.
90.0%		6.0	Upper 95% Mean	.
75.0%	quartile	6.0	Lower 95% Mean	.
50.0%	median	6.0	N	1.0
25.0%	quartile	6.0		
10.0%		6.0		
2.5%		6.0		
0.5%		6.0		
0.0%	minimum	6.0		

Distributions Analyte_Method=Uranium-238 Acid dissolution with hydrofluoric acid

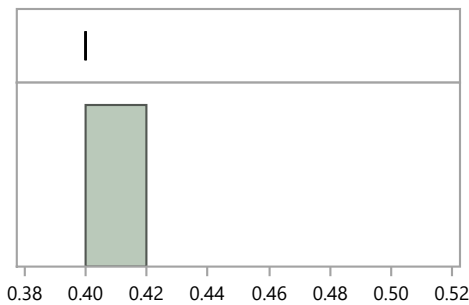
Bias



Quantiles			Summary Statistics	
100.0%	maximum	-5.1	Mean	-5.4
99.5%		-5.1	Std Dev	0.4
97.5%		-5.1	Std Err Mean	0.3
90.0%		-5.1	Upper 95% Mean	-1.6
75.0%	quartile	-5.1	Lower 95% Mean	-9.2
50.0%	median	-5.4	N	2.0
25.0%	quartile	-5.7		
10.0%		-5.7		
2.5%		-5.7		
0.5%		-5.7		
0.0%	minimum	-5.7		

Distributions Analyte_Method=Uranium-238 Coprecipitation, straight

Bias



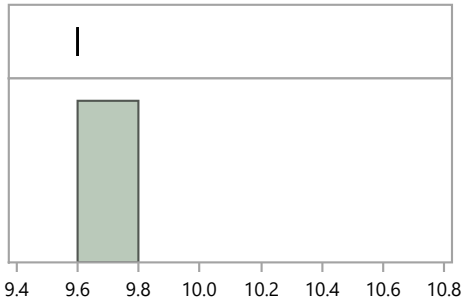
Quantiles			Summary Statistics	
100.0%	maximum	0.4	Mean	0.4
99.5%		0.4	Std Dev	.
97.5%		0.4	Std Err Mean	.
90.0%		0.4	Upper 95% Mean	.
75.0%	quartile	0.4	Lower 95% Mean	.
50.0%	median	0.4	N	1.0
25.0%	quartile	0.4		
10.0%		0.4		
2.5%		0.4		
0.5%		0.4		
0.0%	minimum	0.4		

MaSF45 Distribution by Preparation Method

MaSF Distribution by Prep Method

Distributions Analyte_Method=Uranium-238 Other

Bias



Quantiles

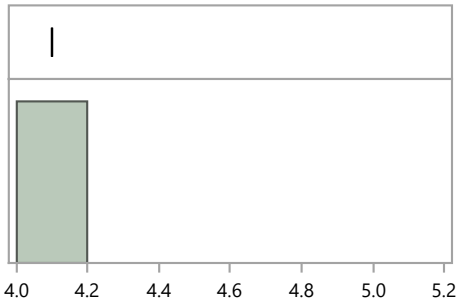
100.0%	maximum	9.6
99.5%		9.6
97.5%		9.6
90.0%		9.6
75.0%	quartile	9.6
50.0%	median	9.6
25.0%	quartile	9.6
10.0%		9.6
2.5%		9.6
0.5%		9.6
0.0%	minimum	9.6

Summary Statistics

Mean	9.6
Std Dev	.
Std Err Mean	.
Upper 95% Mean	.
Lower 95% Mean	.
N	1.0

Distributions Analyte_Method=Uranium-238 Total dissolution by fusion

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