MAPEP-08-OrW19 Laboratories Receiving Samples

	Lab Code	Lab Name
1	AALI01	Xenco Laboratories-Atlanta
2	ANTE01	Paragon Analytics a Division of DataChem Laboratories, Inc.
3	ASHL01	CH2M Hill Applied Science Laboratory
4	AY1201	B&W Y-12, Analytical Chemistry Organization Laboratory
5	BCLI01	BC Laboratories, Inc
6	BNEL01	Northeast Laboratory Services, Inc.
7	CALN01	Caltest Analytical Laboratory
8	CDHS01	California Department of Public Health
9	CORE02	TestAmerica Denver
10	DAFI01	Davis & Floyd, Inc.
11	DPAL01	S&S Onsite Analytical
12	EMAX01	EMAX Laboratories, Inc
13	GENE01	GEL Laboratories, LLC
14	GPLP01	GPL Laboratories, LLLP
15	GROW01	FGL Environmental
16	MART01	USEC, Inc.
17	MART02	United States Enrichment Corporation
18	NARL01	National Air and Radiation Environmental Laboratory
19	NESI01	B&W Technical Services-Radioisotope & Analytical Chemistry Laboratory
20	NMLA01	Assaigai Analytical Laboratories, Inc.
21	OBGL01	Life Science Laboratories, Inc.
22	OTLI01	Outreach Technologies, Inc.
23	QUAN01	TestAmerica St. Louis
24	QUAN02	TestAmerica Knoxville
25	SALC01	TestAmerica-Morgan Hill
26	SOUT01	Southwest Research Institute
27	WEST01	Lionville Laboratory
28	WEST03	Waste Sampling and Characterization Facility

5 Laboratories did not report data

Setup and Process Data

MAPEP-08-OrW19

Analyte	Ref. Value	Total Ref.	Uncertainty	F.P.	S.E.
Organic					
Aldrin	6.62		0.20		
gamma-BHC (Lindane)	3.17		0.10		
4,4'-DDE	9.23		0.28		
Dieldrin	4.53		0.14		
Endrin	5.54		0.17		
Heptachlor	4.81		0.14		
1,3-Dichlorobenzene	48.7		1.5		
Hexachloroethane	128		4		
Nitrobenzene	185		6		
1,2,4-Trichlorobenzene	49.2		1.5		
Acenaphthylene	48.2		1.4		
Benzo(a)anthracene	127		4		
Benzo(a)pyrene	98.6		3.0		
Benzo(k)fluoranthene	56.4		1.7		
bis(2-chloroisopropyl)ether	155		5		
2-Chloronaphthalene	58.5		1.8		
2-Chlorophenol	195		6		
Chrysene	68.9		2.1		
Di-n-butylphthalate	75.8		2.3		
Diethylphthalate	88.4		2.6		
2,4-Dinitrotoluene	120		4		
2,6-Dinitrotoluene	64.2		1.9		
Di-n-octylphthalate	56.2		1.7		
Fluorene	42.8		1.3		
2-Methylnaphthalene	141		4		
4-Nitrophenol	168		5		
Pentachlorophenol	122		4		
Phenanthrene	134		4		
Phenol	157		5		
Pyrene	66.7		2.0		
2,4,5-Trichlorophenol	109		3		

Sample Statistical Summary

MAPEP-08-OrW19

Analyte	T(1)	A(2)	Calc(3) Mean	Std(4) Dev	Assnd(5) Value	Ref Unc	Acceptance Range
Organic							Units: (ug/L)
Aldrin	13	13	5.49	1.21	6.62	0.20	1.87 - 9.12
delta-BHC	12	12					
alpha-BHC	12	12					
beta-BHC	12	12					
gamma-BHC (Lindane)	13	9	2.86	0.54	3.17	0.10	1.24 - 4.48
4,4'-DDD	12	12					
4,4'-DDE	13	12	8.00	1.29	9.23	0.28	4.12 - 11.87
4,4'-DDT	12	12					
Dieldrin	13	13	4.20	0.67	4.53	0.14	2.19 - 6.21
Endosulfan I	12	12					
Endosulfan II	12	12					
Endosulfan sulfate	12	12					
Endrin Aldehyde	12	12					
Endrin	13	13	5.18	1.05	5.54	0.17	2.04 - 8.33
Heptachlor	13	11	4.08	0.84	4.81	0.14	1.56 - 6.60
Heptachlor epoxide	12	12					
Methoxychlor	11	10					
1,2-Dichlorobenzene	18	18					
1,3-Dichlorobenzene	20	19	32.7	8.7	48.7	1.5	6.6 - 58.8
1,4-Dichlorobenzene	18	18					
Hexachlorobutadiene	18	18					
Hexachloroethane	21	21	82	23	128	4	13 - 150
Naphthalene	18	18					
Nitrobenzene	21	21	140	28	185	6	57 - 222
1,2,4-Trichlorobenzene	21	21	35.6	8.7	49.2	1.5	9.4 - 61.7
Acenaphthene	18	18					
Acenaphthylene	21	21	39.2	6.9	48.2	1.4	18.6 - 59.8
Anthracene	19	17					
Benzo(a)anthracene	21	21	109	17	127	4	58 - 161
Benzo(a)pyrene	21	21	76.6	15.8	98.5	3.0	29.1 - 124.0
Benzo(b)fluoranthene	19	18					
Benzo(g,h,i)perylene	18	18					
Benzo(k)fluoranthene	21	21	48.4	11.6	56.4	1.7	13.5 - 83.3
4-Bromophenyl-phenylether	16	15					
Butylbenzylphthalate	18	18					
4-Chloro-3-methylphenol	18	18					
bis(2-chloroethoxy)methane	16	16					
bis(2-chloroethyl)ether	16	16					
bis(2-chloroisopropyl)ether	20	20	112	25	155	5	37 - 187
2-Chloronaphthalene	21	21	44.5	9.0	58.5	1.8	17.5 - 71.5
2-Chlorophenol	21	21	149	32	195	6	54 - 244
4-Chlorophenyl-phenylether	16	16					
Chrysene	21	21	59.0	10.5	68.9	2.1	27.5 - 90.4
Dibenzo(a,h)anthracene	18	18					
Dibenzofuran	18	18					
Di-n-butylphthalate	21	21	63.3	12.7	75.8	2.3	25.3 - 101.3
2,4-Dichlorophenol	17	17					
2,6-Dichlorophenol	11	11					
Diethylphthalate	21	20	69.6	18.0	88.4	2.6	15.7 - 123.5
2,4-Dimethylphenol	18	18					

Dimethylphthalate	18	17					
2,4-Dinitrophenol	18	17					
2,4-Dinitrotoluene	21	21	96	17	120	4	45 - 148
2,6-Dinitrotoluene	21	21	53.3	9.1	64.2	1.9	25.9 - 80.7
Di-n-octylphthalate	21	21	50.6	11.5	56.2	1.7	16.2 - 85.1
Bis(2-ethylhexyl)phthalate	18	18					
Fluoranthene	18	18					
Fluorene	21	21	35.8	6.5	42.8	1.3	16.4 - 55.2
Hexachlorobenzene	18	18					
Hexachlorocyclopentadiene	18	18					
Indeno(1,2,3-c,d)pyrene	18	18					
Isophorone	18	18					
4,6-Dinitro-2-methylphenol	18	17					
2-Methylnaphthalene	21	21	94	22	141	4	29 - 159
2-Methylphenol	18	18					
4-Nitrophenol	21	21	93	44	168	5	9 - 225
3-Methyl & 4-Methylphenol	16	16					
2-Nitrophenol	18	18					
Pentachlorophenol	21	21	100	23	122	4	32 - 169
Phenanthrene	21	20	110	16	134	4	61 - 160
Phenol	21	21	88	41	157	5	9 - 210
Pyrene	21	20	57.3	11.8	66.7	2.0	21.9 - 92.8
2,4,5-Trichlorophenol	21	21	89	17	109	3	39 - 140
2,4,6-Trichlorophenol	19	17					

Note: (1) T = Total number of laboratories reporting analyte.
(2) A = Number of laboratories with 'Acceptable' performance.
(3) Mean calculated from NELAC FOPT Tables (Effective 07/01/2007).
(4) Standard deviation calculated from NELAC FOPT Tables.
(5) Assigned Value (T)

Flag Summary Report

Generated December 17, 2008

MAPEP-08-OrW19

Organic				
Analyte	**A**	**W**	**RW**	**N**
Phenol	21			
2-Chlorophenol	21			
1,3-Dichlorobenzene	19			1
1,4-Dichlorobenzene	18			
1,2-Dichlorobenzene	18			
Hexachloroethane	21			
Nitrobenzene	21			
Isophorone	18			
2-Nitrophenol	18			
2,4-Dimethylphenol	18			
2,4-Dichlorophenol	17			
1,2,4-Trichlorobenzene	21			
Naphthalene	18			
Hexachlorobutadiene	18			
4-Chloro-3-methylphenol	18			
2-Methylnaphthalene	21			
2-Methylphenol	18			
Hexachlorocyclopentadiene	18			
Methylphenol	16			
2,4,6-Trichlorophenol	17			2
2,6-Dichlorophenol	11			
2-Chloronaphthalene	21			
Dimethylphthalate	17			1
Acenaphthylene	21			
2,6-Dinitrotoluene	21			
Acenaphthene	18			
2,4-Dinitrotoluene	21			
2,4-Dinitrophenol	17			1
Dibenzofuran	18			
4-Nitrophenol	21			
Fluorene	21			
Diethylphthalate	20			1
4,6-Dinitro-2-methylphenol	17			1
2,4,5-Trichlorophenol	21			
Hexachlorobenzene	18			

Pentachlorophenol	21			
Phenanthrene	20			1
Anthracene	17			2
Di-n-butylphthalate	21			
Fluoranthene	18			
Pyrene	20			1
Butylbenzylphthalate	18			
Benzo(a)anthracene	21			
Chrysene	21			
Bis(2-ethylhexyl)phthalate	17	1		
Di-n-octylphthalate	21			
Benzo(b)fluoranthene	18			1
Benzo(k)fluoranthene	21			
Benzo(a)pyrene	21			
Indeno(1,2,3-c,d)pyrene	18			
Dibenzo(a,h)anthracene	18			
Benzo(g,h,i)perylene	18			
alpha-BHC	12			
beta-BHC	12			
gamma-BHC (Lindane)	9			4
delta-BHC	12			
Heptachlor	11			2
Aldrin	13			
Heptachlor epoxide	12			
Endosulfan I	12			
4,4'-DDE	12			1
Dieldrin	13			
Endrin	13			
4,4'-DDD	12			
Endosulfan II	12			
4,4'-DDT	12			
Endrin Aldehyde	9	3		
Endosulfan sulfate	12			
Methoxychlor	10			1
phenylether	15			1
chloroethoxy)methane	16			
bis(2-chloroethyl)ether	16			
phenylether	16			
bis(2-chloroisopropyl)ether	20			

Mixed Analyte Performance Evaluation Program

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

Laboratory Results For MAPEP-08-OrW19
(AALI01) Xenco Laboratories-Atlanta
6017 Financial Drive
Norcross, GA 30071

Organic — Units: (ug/L)

Analyte	Result	Ref Value	Flag	Notes	Z-	Acceptance Range	Unc Value	Unc Flag
Aldrin	5.07	5.49	A		-0.35	1.87 - 9.12		
delta-BHC	<0.002		A					
alpha-BHC	<0.01		A					
beta-BHC	<0.002		A					
gamma-BHC (Lindane)	2.58	2.86	A		-0.52	1.24 - 4.48		
4,4'-DDD	<0.004		A					
4,4'-DDE	7.87	8.00	A		-0.10	4.12 - 11.87		
4,4'-DDT	<0.005		A					
Dieldrin	4.0	4.20	A		-0.30	2.19 - 6.21		
Endosulfan I	<0.002		A					
Endosulfan II	<0.005		A					
Endosulfan sulfate	<0.007		A					
Endrin Aldehyde	0.485		W	(1)				
Endrin	4.55	5.18	A		-0.60	2.04 - 8.33		
Heptachlor	2.95	4.08	A		-1.35	1.56 - 6.60		
Heptachlor epoxide	<0.003		A					
Methoxychlor	<0.029		A					
1,2-Dichlorobenzene	<3.66		A					
1,3-Dichlorobenzene	28.7	32.7	A		-0.46	6.6 - 58.8		
1,4-Dichlorobenzene	<3.22		A					
Hexachlorobutadiene	<3.56		A					
Hexachloroethane	82.1	82	A		0.02	13 - 150		
Naphthalene	<3.04		A					
Nitrobenzene	145	140	A		0.20	57 - 222		
1,2,4-Trichlorobenzene	32.4	35.6	A		-0.36	9.4 - 61.7		
Acenaphthene	<2.86		A					
Acenaphthylene	38.6	39.2	A		-0.09	18.6 - 59.8		
Anthracene	120		N	(10)				
Benzo(a)anthracene	111	109	A		0.10	58 - 161		
Benzo(a)pyrene	76.5	76.6	A		0.00	29.1 - 124.0		
Benzo(b)fluoranthene	<3.94		A					
Benzo(g,h,i)perylene	<3.94		A					
Benzo(k)fluoranthene	51.8	48.4	A		0.30	13.5 - 83.3		
4-Bromophenyl-phenylether	<4.24		A					
Butylbenzylphthalate	<3.64		A					
4-Chloro-3-methylphenol	<4.36		A					

Organic — Units: (ug/L)

Analyte	Result	Ref Value	Flag	Notes	Z-	Acceptance Range	Unc Value	Unc Flag
bis(2-chloroethoxy)methane	<2.50		A					
bis(2-chloroethyl)ether	<3.56		A					
bis(2-chloroisopropyl)ether	81.3	112	A		-1.23	37 - 187		
2-Chloronaphthalene	49.2	44.5	A		0.52	17.5 - 71.5		
2-Chlorophenol	134	149	A		-0.48	54 - 244		
4-Chlorophenyl-phenylether	<2.70		A					
Chrysene	56.4	59.0	A		-0.25	27.5 - 90.4		
Dibenzo(a,h)anthracene	<3.66		A					
Dibenzofuran	<3.28		A					
Di-n-butylphthalate	70.8	63.3	A		0.59	25.3 - 101.3		
2,4-Dichlorophenol	<3.28		A					
2,6-Dichlorophenol	<3.28		A					
Diethylphthalate	86.5	69.6	A		0.94	15.7 - 123.5		
2,4-Dimethylphenol	<3.26		A					
Dimethylphthalate	<3.94		A					
2,4-Dinitrophenol	<14.2		A					
2,4-Dinitrotoluene	110	96	A		0.80	45 - 148		
2,6-Dinitrotoluene	54.4	53.3	A		0.12	25.9 - 80.7		
Di-n-octylphthalate	45.7	50.6	A		-0.43	16.2 - 85.1		
Bis(2-ethylhexyl)phthalate	<2.40		A					
Fluoranthene	<3.62		A					
Fluorene	34.4	35.8	A		-0.22	16.4 - 55.2		
Hexachlorobenzene	<4.42		A					
Hexachlorocyclopentadiene	<3.74		A					
Indeno(1,2,3-c,d)pyrene	<3.74		A					
Isophorone	<2.82		A					
4,6-Dinitro-2-methylphenol	<2.80		A					
2-Methylnaphthalene	108	94	A		0.65	29 - 159		
2-Methylphenol	<4.00		A					
4-Nitrophenol	221	93	A		2.90	9 - 225		
3-Methyl & 4-Methylphenol	<5.10		A					
2-Nitrophenol	<3.90		A					
Pentachlorophenol	88.0	100	A		-0.55	32 - 169		
Phenanthrene	115	110	A		0.28	61 - 160		
Phenol	88.4	88	A		0.01	9 - 210		
Pyrene	83.0	57.3	A		2.17	21.9 - 92.8		
2,4,5-Trichlorophenol	96.2	89	A		0.41	39 - 140		
2,4,6-Trichlorophenol	<3.28		A					

NOTE: The spiking solution used to create the MAPEP OrW Standard was prepared by a subcontractor and validated by RESL Chemists.

Criteria based on FoPT Table for NPW - Jan 1, 2008

A = Result acceptable Z-score <=3.0
N = Result not acceptable Z-score > 3.0
NR = Not Reported

Notes:

(1) = False Positive
(2) = False Negative
(10) = Check Isomer

Mixed Analyte Performance Evaluation Program

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

Laboratory Results For MAPEP-08-OrW19
(ANTE01) Paragon Analytics a Division of DataChem Laboratories, Inc.
225 Commerce Drive
Fort Collins, CO 80524-1416

Organic — Units: (ug/L)

Analyte	Result	Ref Value	Flag	Notes	Z-	Acceptance Range	Unc Value	Unc Flag
Aldrin	5.9	5.49	A		0.34	1.87 - 9.12		
delta-BHC	<0.0474		A					
alpha-BHC	<0.0474		A					
beta-BHC	<0.0474		A					
gamma-BHC (Lindane)	3.09	2.86	A		0.43	1.24 - 4.48		
4,4'-DDD	<0.0474		A					
4,4'-DDE	6.62	8.00	A		-1.07	4.12 - 11.87		
4,4'-DDT	<0.0474		A					
Dieldrin	4.36	4.20	A		0.24	2.19 - 6.21		
Endosulfan I	<0.0474		A					
Endosulfan II	<0.0474		A					
Endosulfan sulfate	<0.0474		A					
Endrin Aldehyde	0.0533		W	(1)				
Endrin	5.23	5.18	A		0.05	2.04 - 8.33		
Heptachlor	2.86	4.08	A		-1.45	1.56 - 6.60		
Heptachlor epoxide	<0.0474		A					
Methoxychlor	0.237		N	(1)				
1,2-Dichlorobenzene	<9.48		A					
1,3-Dichlorobenzene	31.9	32.7	A		-0.09	6.6 - 58.8		
1,4-Dichlorobenzene	<9.48		A					
Hexachlorobutadiene	<9.48		A					
Hexachloroethane	87.4	82	A		0.25	13 - 150		
Naphthalene	<9.48		A					
Nitrobenzene	110	140	A		-1.07	57 - 222		
1,2,4-Trichlorobenzene	36	35.6	A		0.05	9.4 - 61.7		
Acenaphthene	<9.48		A					
Acenaphthylene	39.3	39.2	A		0.02	18.6 - 59.8		
Anthracene	<9.48		A					
Benzo(a)anthracene	106	109	A		-0.19	58 - 161		
Benzo(a)pyrene	70	76.6	A		-0.42	29.1 - 124.0		
Benzo(b)fluoranthene	<9.48		A					
Benzo(g,h,i)perylene	<9.48		A					
Benzo(k)fluoranthene	44.1	48.4	A		-0.37	13.5 - 83.3		
4-Bromophenyl-phenylether	<9.48		A					
Butylbenzylphthalate	<9.48		A					
4-Chloro-3-methylphenol	<9.48		A					

Organic — Units: (ug/L)

Analyte	Result	Ref Value	Flag	Notes	Z-	Acceptance Range	Unc Value	Unc Flag
bis(2-chloroethoxy)methane	<9.48		A					
bis(2-chloroethyl)ether	<9.48		A					
bis(2-chloroisopropyl)ether	126	112	A		0.57	37 - 187		
2-Chloronaphthalene	42.2	44.5	A		-0.26	17.5 - 71.5		
2-Chlorophenol	151	149	A		0.06	54 - 244		
4-Chlorophenyl-phenylether	<9.48		A					
Chrysene	54.3	59.0	A		-0.45	27.5 - 90.4		
Dibenzo(a,h)anthracene	<9.48		A					
Dibenzofuran	<9.48		A					
Di-n-butylphthalate	62.5	63.3	A		-0.06	25.3 - 101.3		
2,4-Dichlorophenol	<9.48		A					
Diethylphthalate	68.9	69.6	A		-0.04	15.7 - 123.5		
2,4-Dimethylphenol	<9.48		A					
Dimethylphthalate	<9.48		A					
2,4-Dinitrophenol	19		N	(1)				
2,4-Dinitrotoluene	90	96	A		-0.37	45 - 148		
2,6-Dinitrotoluene	53.3	53.3	A		0.00	25.9 - 80.7		
Di-n-octylphthalate	47.2	50.6	A		-0.30	16.2 - 85.1		
Bis(2-ethylhexyl)phthalate	<9.48		A					
Fluoranthene	<9.48		A					
Fluorene	36.5	35.8	A		0.11	16.4 - 55.2		
Hexachlorobenzene	<9.48		A					
Hexachlorocyclopentadiene	<9.48		A					
Indeno(1,2,3-c,d)pyrene	<9.48		A					
Isophorone	<9.48		A					
4,6-Dinitro-2-methylphenol	19		N	(1)				
2-Methylnaphthalene	113	94	A		0.88	29 - 159		
2-Methylphenol	<9.48		A					
4-Nitrophenol	112	93	A		0.43	9 - 225		
3-Methyl & 4-Methylphenol	<9.48		A					
2-Nitrophenol	<9.48		A					
Pentachlorophenol	94	100	A		-0.28	32 - 169		
Phenanthrene	113	110	A		0.16	61 - 160		
Phenol	122	88	A		0.83	9 - 210		
Pyrene	50.3	57.3	A		-0.60	21.9 - 92.8		
2,4,5-Trichlorophenol	88.1	89	A		-0.07	39 - 140		
2,4,6-Trichlorophenol	<9.48		A					

NOTE: The spiking solution used to create the MAPEP OrW Standard was prepared by a subcontractor and validated by RESL Chemists.

Criteria based on FoPT Table for NPW - Jan 1, 2008

A = Result acceptable Z-score <=3.0
N = Result not acceptable Z-score > 3.0
NR = Not Reported

Notes:

(1) = False Positive
(2) = False Negative
(10) = Check Isomer

Mixed Analyte Performance Evaluation Program

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

Laboratory Results For MAPEP-08-OrW19
(ASHL01) CH2M Hill Applied Science Laboratory
2300 NW Walnut Blvd
Corvallis, OR 97330

Organic — Units: (ug/L)

Analyte	Result	Ref Value	Flag	Notes	Z-	Acceptance Range	Unc Value	Unc Flag
Aldrin	5.17	5.49	A		-0.27	1.87 - 9.12	0.72	
delta-BHC	<0.004		A				0.0007	
alpha-BHC	<0.004		A				0.0006	
beta-BHC	<0.004		A				0.0006	
gamma-BHC (Lindane)	5.29	2.86	N		4.50	1.24 - 4.48	0.84	
4,4'-DDD	<0.004		A				0.0005	
4,4'-DDE	8.36	8.00	A		0.28	4.12 - 11.87	1.10	
4,4'-DDT	<0.004		A				0.0007	
Dieldrin	4.14	4.20	A		-0.09	2.19 - 6.21	0.56	
Endosulfan I	<0.004		A				0.0005	
Endosulfan II	<0.004		A				0.0006	
Endosulfan sulfate	<0.100		A				0.016	
Endrin Aldehyde	<0.200		A				0.022	
Endrin	4.72	5.18	A		-0.44	2.04 - 8.33	0.89	
Heptachlor	2.81	4.08	A		-1.51	1.56 - 6.60	0.39	
Heptachlor epoxide	<0.004		A				0.0006	
Methoxychlor	<0.004		A				0.001	
1,2-Dichlorobenzene	<9.5		A				0.6	
1,3-Dichlorobenzene	25.1	32.7	A		-0.87	6.6 - 58.8	1.5	
1,4-Dichlorobenzene	<9.5		A				0.6	
Hexachlorobutadiene	<9.5		A				0.5	
Hexachloroethane	55.1	82	A		-1.17	13 - 150	3.4	
Naphthalene	<9.5		A				0.6	
Nitrobenzene	124	140	A		-0.57	57 - 222	8	
1,2,4-Trichlorobenzene	27.8	35.6	A		-0.89	9.4 - 61.7	1.4	
Acenaphthene	<9.5		A				0.7	
Acenaphthylene	34.7	39.2	A		-0.66	18.6 - 59.8	2.4	
Anthracene	<9.5		A				0.6	
Benzo(a)anthracene	103	109	A		-0.37	58 - 161	7	
Benzo(a)pyrene	88.8	76.6	A		0.78	29.1 - 124.0	5.9	
Benzo(b)fluoranthene	<9.5		A				0.8	
Benzo(g,h,i)perylene	<9.5		A				0.5	
Benzo(k)fluoranthene	47.7	48.4	A		-0.06	13.5 - 83.3	3.6	
4-Bromophenyl-phenylether	<9.5		A				0.5	
Butylbenzylphthalate	<5.7		A				0.5	
4-Chloro-3-methylphenol	<9.5		A				0.5	

Organic								Units: (ug/L)
Analyte	Result	Ref Value	Flag	Notes	Z-	Acceptance Range	Unc Value	Unc Flag
bis(2-chloroethoxy)methane	<9.5		A				0.5	
bis(2-chloroethyl)ether	<9.5		A				0.5	
bis(2-chloroisopropyl)ether	98.7	112	A		-0.53	37 - 187	9.3	
2-Chloronaphthalene	38.5	44.5	A		-0.67	17.5 - 71.5	2.4	
2-Chlorophenol	122	149	A		-0.86	54 - 244	6	
4-Chlorophenyl-phenylether	<9.5		A				0.6	
Chrysene	56.6	59.0	A		-0.23	27.5 - 90.4	3.6	
Dibenzo(a,h)anthracene	<9.5		A				0.6	
Dibenzofuran	<9.5		A				0.6	
Di-n-butylphthalate	56.8	63.3	A		-0.51	25.3 - 101.3	3.6	
2,4-Dichlorophenol	<9.5		A				0.5	
Diethylphthalate	65.9	69.6	A		-0.21	15.7 - 123.5	4.3	
2,4-Dimethylphenol	<9.5		A				0.5	
Dimethylphthalate	<9.5		A				0.7	
2,4-Dinitrophenol	<23.8		A				1.6	
2,4-Dinitrotoluene	80.5	96	A		-0.92	45 - 148	5.4	
2,6-Dinitrotoluene	41.8	53.3	A		-1.26	25.9 - 80.7	2.9	
Di-n-octylphthalate	45.4	50.6	A		-0.46	16.2 - 85.1	3.9	
Bis(2-ethylhexyl)phthalate	<9.5		A				0.8	
Fluoranthene	<9.5		A				0.6	
Fluorene	29.6	35.8	A		-0.96	16.4 - 55.2	2.1	
Hexachlorobenzene	<9.5		A				0.5	
Hexachlorocyclopentadiene	<9.5		A				0.7	
Indeno(1,2,3-c,d)pyrene	<9.5		A				0.6	
Isophorone	<9.5		A				0.5	
4,6-Dinitro-2-methylphenol	<23.8		A				1.5	
2-Methylnaphthalene	88.3	94	A		-0.26	29 - 159	6.3	
2-Methylphenol	<9.5		A				0.6	
4-Nitrophenol	48.1	93	A		-1.02	9 - 225	6.0	
3-Methyl & 4-Methylphenol	<9.5		A				0.8	
2-Nitrophenol	<9.5		A				0.5	
Pentachlorophenol	75.1	100	A		-1.12	32 - 169	5.6	
Phenanthrene	89.1	110	A		-1.30	61 - 160	6.2	
Phenol	46.0	88	A		-1.03	9 - 210	1.7	
Pyrene	55.6	57.3	A		-0.15	21.9 - 92.8	3.9	
2,4,5-Trichlorophenol	73.2	89	A		-0.96	39 - 140	5.1	
2,4,6-Trichlorophenol	<9.5		A				0.6	

NOTE: The spiking solution used to create the MAPEP OrW Standard was prepared by a subcontractor and validated by RESL Chemists.

Criteria based on FoPT Table for NPW - Jan 1, 2008

A = Result acceptable Z-score <=3.0
N = Result not acceptable Z-score > 3.0
NR = Not Reported

Notes:

(1) = False Positive
(2) = False Negative
(10) = Check Isomer

Mixed Analyte Performance Evaluation Program

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

Laboratory Results For MAPEP-08-OrW19
(AY1201) B&W Y-12, Analytical Chemistry Organization Laboratory
Y12, NSC, Bldg. 9995, Rm 142
Oak Ridge, TN 37831-8189

Organic — Units: (ug/L)

Analyte	Result	Ref Value	Flag	Notes	Z-	Acceptance Range	Unc Value	Unc Flag
Aldrin	5.01	5.49	A		-0.40	1.87 - 9.12		
delta-BHC	<0.04		A					
alpha-BHC	<0.04		A					
beta-BHC	<0.04		A					
gamma-BHC (Lindane)	2.81	2.86	A		-0.09	1.24 - 4.48		
4,4'-DDD	<0.08		A					
4,4'-DDE	8.77	8.00	A		0.60	4.12 - 11.87		
4,4'-DDT	<0.08		A					
Dieldrin	4.38	4.20	A		0.27	2.19 - 6.21		
Endosulfan I	<0.04		A					
Endosulfan II	<0.08		A					
Endosulfan sulfate	<0.08		A					
Endrin Aldehyde	<0.08		A					
Endrin	5.71	5.18	A		0.50	2.04 - 8.33		
Heptachlor	2.92	4.08	A		-1.38	1.56 - 6.60		
Heptachlor epoxide	<0.04		A					
Methoxychlor	<0.4		A					
1,2-Dichlorobenzene	<10		A					
1,3-Dichlorobenzene	31.3	32.7	A		-0.16	6.6 - 58.8		
1,4-Dichlorobenzene	<10		A					
Hexachlorobutadiene	<10		A					
Hexachloroethane	82.3	82	A		0.03	13 - 150		
Naphthalene	<10		A					
Nitrobenzene	168	140	A		1.03	57 - 222		
1,2,4-Trichlorobenzene	37.3	35.6	A		0.20	9.4 - 61.7		
Acenaphthene	<10		A					
Acenaphthylene	44.0	39.2	A		0.70	18.6 - 59.8		
Anthracene	<10		A					
Benzo(a)anthracene	112	109	A		0.16	58 - 161		
Benzo(a)pyrene	93.5	76.6	A		1.07	29.1 - 124.0		
Benzo(b)fluoranthene	<10		A					
Benzo(g,h,i)perylene	<10		A					
Benzo(k)fluoranthene	39.8	48.4	A		-0.74	13.5 - 83.3		
4-Bromophenyl-phenylether	<10		A					
Butylbenzylphthalate	<10		A					
4-Chloro-3-methylphenol	<10		A					

Organic								Units: (ug/L)
Analyte	Result	Ref Value	Flag	Notes	Z-	Acceptance Range	Unc Value	Unc Flag
bis(2-chloroethoxy)methane	<10		A					
bis(2-chloroethyl)ether	<10		A					
bis(2-chloroisopropyl)ether	125	112	A		0.53	37 - 187		
2-Chloronaphthalene	39.5	44.5	A		-0.56	17.5 - 71.5		
2-Chlorophenol	126	149	A		-0.74	54 - 244		
4-Chlorophenyl-phenylether	<10		A					
Chrysene	60.0	59.0	A		0.10	27.5 - 90.4		
Dibenzo(a,h)anthracene	<10		A					
Dibenzofuran	<10		A					
Di-n-butylphthalate	33.7	63.3	A		-2.33	25.3 - 101.3		
2,4-Dichlorophenol	<10		A					
2,6-Dichlorophenol	<10		A					
Diethylphthalate	25.0	69.6	A		-2.48	15.7 - 123.5		
2,4-Dimethylphenol	<10		A					
Dimethylphthalate	<10		A					
2,4-Dinitrophenol	<19		A					
2,4-Dinitrotoluene	97.2	96	A		0.06	45 - 148		
2,6-Dinitrotoluene	47.9	53.3	A		-0.59	25.9 - 80.7		
Di-n-octylphthalate	55.7	50.6	A		0.44	16.2 - 85.1		
Bis(2-ethylhexyl)phthalate	<19		A					
Fluoranthene	<10		A					
Fluorene	38.2	35.8	A		0.37	16.4 - 55.2		
Hexachlorobenzene	<10		A					
Hexachlorocyclopentadiene	<10		A					
Indeno(1,2,3-c,d)pyrene	<10		A					
Isophorone	<10		A					
4,6-Dinitro-2-methylphenol	<19		A					
2-Methylnaphthalene	115	94	A		0.98	29 - 159		
4-Nitrophenol	101	93	A		0.18	9 - 225		
2-Methylphenol	<10		A					
3-Methyl & 4-Methylphenol	<19		A					
2-Nitrophenol	<10		A					
Pentachlorophenol	87.2	100	A		-0.58	32 - 169		
Phenanthrene	115	110	A		0.28	61 - 160		
Phenol	112	88	A		0.59	9 - 210		
Pyrene	54.6	57.3	A		-0.23	21.9 - 92.8		
2,4,5-Trichlorophenol	71.1	89	A		-1.08	39 - 140		
2,4,6-Trichlorophenol	<10		A					

NOTE: The spiking solution used to create the MAPEP OrW Standard was prepared by a subcontractor and validated by RESL Chemists.

Criteria based on FoPT Table for NPW - Jan 1, 2008

A = Result acceptable Z-score <=3.0
N = Result not acceptable Z-score > 3.0
NR = Not Reported

Notes:

(1) = False Positive
(2) = False Negative
(10) = Check Isomer

Mixed Analyte Performance Evaluation Program

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

Laboratory Results For MAPEP-08-OrW19
(BCLI01) BC Laboratories, Inc
4100 Atlas Court
Bakersfield, CA 93308

Organic — Units: (ug/L)

Analyte	Result	Ref Value	Flag	Notes	Z-	Acceptance Range	Unc Value	Unc Flag
Aldrin	4.70	5.49	A		-0.66	1.87 - 9.12		
gamma-BHC (Lindane)	2.81	2.86	A		-0.09	1.24 - 4.48		
4,4'-DDE	5.76	8.00	A		-1.73	4.12 - 11.87		
Dieldrin	3.47	4.20	A		-1.09	2.19 - 6.21		
Endrin	4.07	5.18	A		-1.06	2.04 - 8.33		
Heptachlor	1.19	4.08	N		-3.44	1.56 - 6.60		
1,3-Dichlorobenzene	26.0	32.7	A		-0.77	6.6 - 58.8		
Hexachloroethane	58.7	82	A		-1.01	13 - 150		
Nitrobenzene	117	140	A		-0.82	57 - 222		
1,2,4-Trichlorobenzene	28.4	35.6	A		-0.82	9.4 - 61.7		
Acenaphthylene	34.1	39.2	A		-0.74	18.6 - 59.8		
Benzo(a)anthracene	81.5	109	A		-1.63	58 - 161		
Benzo(a)pyrene	74.2	76.6	A		-0.15	29.1 - 124.0		
Benzo(k)fluoranthene	52.2	48.4	A		0.33	13.5 - 83.3		
bis(2-chloroisopropyl)ether	92.3	112	A		-0.79	37 - 187		
2-Chloronaphthalene	38.3	44.5	A		-0.69	17.5 - 71.5		
2-Chlorophenol	112	149	A		-1.18	54 - 244		
Chrysene	53.5	59.0	A		-0.52	27.5 - 90.4		
Di-n-butylphthalate	56.4	63.3	A		-0.54	25.3 - 101.3		
Diethylphthalate	67.8	69.6	A		-0.10	15.7 - 123.5		
2,4-Dinitrotoluene	93.8	96	A		-0.14	45 - 148		
2,6-Dinitrotoluene	50.5	53.3	A		-0.31	25.9 - 80.7		
Di-n-octylphthalate	47.3	50.6	A		-0.29	16.2 - 85.1		
Fluorene	31.9	35.8	A		-0.60	16.4 - 55.2		
2-Methylnaphthalene	86.8	94	A		-0.33	29 - 159		
4-Nitrophenol	57.3	93	A		-0.81	9 - 225		
Pentachlorophenol	102	100	A		0.07	32 - 169		
Phenanthrene	101	110	A		-0.57	61 - 160		
Phenol	40.9	88	A		-1.16	9 - 210		
Pyrene	44.7	57.3	A		-1.07	21.9 - 92.8		
2,4,5-Trichlorophenol	82.0	89	A		-0.43	39 - 140		

NOTE: The spiking solution used to create the MAPEP OrW Standard was prepared by a subcontractor and validated by RESL Chemists.

Criteria based on FoPT Table for NPW - Jan 1, 2008

A = Result acceptable Z-score <=3.0
N = Result not acceptable Z-score > 3.0
NR = Not Reported

Notes:

(1) = False Positive
(2) = False Negative
(10) = Check Isomer

Mixed Analyte Performance Evaluation Program

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

Laboratory Results For MAPEP-08-OrW19
(BNEL01) Northeast Laboratory Services, Inc.
PO Box 788
Waterville, ME 04903-0788

Organic — Units: (ug/L)

Analyte	Result	Ref Value	Flag	Notes	Z-	Acceptance Range	Unc Value	Unc Flag
Aldrin	NR	5.49				1.87 - 9.12		
gamma-BHC (Lindane)	NR	2.86				1.24 - 4.48		
4,4'-DDE	NR	8.00				4.12 - 11.87		
Dieldrin	NR	4.20				2.19 - 6.21		
Endrin	NR	5.18				2.04 - 8.33		
Heptachlor	NR	4.08				1.56 - 6.60		
1,3-Dichlorobenzene	23.9	32.7	A		-1.01	6.6 - 58.8		
Hexachloroethane	44.8	82	A		-1.62	13 - 150		
Nitrobenzene	96.2	140	A		-1.57	57 - 222		
1,2,4-Trichlorobenzene	30.6	35.6	A		-0.57	9.4 - 61.7		
Acenaphthylene	39.0	39.2	A		-0.03	18.6 - 59.8		
Anthracene	82.8		N	(10)				
Benzo(a)anthracene	88.3	109	A		-1.23	58 - 161		
Benzo(a)pyrene	72.4	76.6	A		-0.26	29.1 - 124.0		
Benzo(b)fluoranthene	46.5		N	(10)				
Benzo(k)fluoranthene	51.4	48.4	A		0.26	13.5 - 83.3		
bis(2-chloroisopropyl)ether	100.7	112	A		-0.45	37 - 187		
2-Chloronaphthalene	43.7	44.5	A		-0.09	17.5 - 71.5		
2-Chlorophenol	119	149	A		-0.96	54 - 244		
Chrysene	51.9	59.0	A		-0.68	27.5 - 90.4		
Di-n-butylphthalate	52.1	63.3	A		-0.88	25.3 - 101.3		
Diethylphthalate	56.2	69.6	A		-0.75	15.7 - 123.5		
2,4-Dinitrotoluene	89.4	96	A		-0.40	45 - 148		
2,6-Dinitrotoluene	41.0	53.3	A		-1.35	25.9 - 80.7		
Di-n-octylphthalate	42.2	50.6	A		-0.73	16.2 - 85.1		
Fluorene	33.6	35.8	A		-0.34	16.4 - 55.2		
2-Methylnaphthalene	84.5	94	A		-0.43	29 - 159		
4-Nitrophenol	60.5	93	A		-0.74	9 - 225		
Pentachlorophenol	96.5	100	A		-0.17	32 - 169		
Phenanthrene	85.2	110	A		-1.54	61 - 160		
Phenol	43.9	88	A		-1.08	9 - 210		
Pyrene	53.6	57.3	A		-0.32	21.9 - 92.8		
2,4,5-Trichlorophenol	83.6	89	A		-0.34	39 - 140		
2,4,6-Trichlorophenol	82.1		N	(10)				

NOTE: The spiking solution used to create the MAPEP OrW Standard was prepared by a subcontractor and validated by RESL Chemists.

Criteria based on FoPT Table for NPW - Jan 1, 2008

A = Result acceptable Z-score <=3.0
N = Result not acceptable Z-score > 3.0
NR = Not Reported

Notes:

(1) = False Positive
(2) = False Negative
(10) = Check Isomer

Mixed Analyte Performance Evaluation Program

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

Laboratory Results For MAPEP-08-OrW19
(CALN01) Caltest Analytical Laboratory
1885 N. Kelly Road
Napa, CA 94558

Organic — Units: (ug/L)

Analyte	Result	Ref Value	Flag	Notes	Z-	Acceptance Range	Unc Value	Unc Flag
Aldrin	NR	5.49				1.87 - 9.12		
gamma-BHC (Lindane)	NR	2.86				1.24 - 4.48		
4,4'-DDE	NR	8.00				4.12 - 11.87		
Dieldrin	NR	4.20				2.19 - 6.21		
Endrin	NR	5.18				2.04 - 8.33		
Heptachlor	NR	4.08				1.56 - 6.60		
1,3-Dichlorobenzene	NR	32.7				6.6 - 58.8		
Hexachloroethane	70.0	82	A		-0.51	13 - 150		
Nitrobenzene	94.0	140	A		-1.65	57 - 222		
1,2,4-Trichlorobenzene	24.0	35.6	A		-1.33	9.4 - 61.7		
Acenaphthylene	33.7	39.2	A		-0.80	18.6 - 59.8		
Benzo(a)anthracene	83.7	109	A		-1.50	58 - 161		
Benzo(a)pyrene	93.2	76.6	A		1.05	29.1 - 124.0		
Benzo(k)fluoranthene	48.2	48.4	A		-0.02	13.5 - 83.3		
bis(2-chloroisopropyl)ether	97.4	112	A		-0.58	37 - 187		
2-Chloronaphthalene	36.1	44.5	A		-0.93	17.5 - 71.5		
2-Chlorophenol	117	149	A		-1.02	54 - 244		
Chrysene	57.7	59.0	A		-0.12	27.5 - 90.4		
Di-n-butylphthalate	82.6	63.3	A		1.53	25.3 - 101.3		
Diethylphthalate	86.0	69.6	A		0.91	15.7 - 123.5		
2,4-Dinitrotoluene	122	96	A		1.50	45 - 148		
2,6-Dinitrotoluene	51.7	53.3	A		-0.18	25.9 - 80.7		
Di-n-octylphthalate	42.5	50.6	A		-0.71	16.2 - 85.1		
Fluorene	34.9	35.8	A		-0.14	16.4 - 55.2		
2-Methylnaphthalene	77.1	94	A		-0.78	29 - 159		
4-Nitrophenol	61.0	93	A		-0.72	9 - 225		
Pentachlorophenol	59.4	100	A		-1.81	32 - 169		
Phenanthrene	87.9	110	A		-1.37	61 - 160		
Phenol	47.3	88	A		-1.00	9 - 210		
Pyrene	47.9	57.3	A		-0.80	21.9 - 92.8		
2,4,5-Trichlorophenol	68.9	89	A		-1.21	39 - 140		

NOTE: The spiking solution used to create the MAPEP OrW Standard was prepared by a subcontractor and validated by RESL Chemists.

Criteria based on FoPT Table for NPW - Jan 1, 2008

A = Result acceptable Z-score <=3.0
N = Result not acceptable Z-score > 3.0
NR = Not Reported

Notes:

(1) = False Positive
(2) = False Negative
(10) = Check Isomer

Mixed Analyte Performance Evaluation Program

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

Laboratory Results For MAPEP-08-OrW19
(CORE02) TestAmerica Denver
4955 Yarrow St
Arvada, CO 80002

Organic — Units: (ug/L)

Analyte	Result	Ref Value	Flag	Notes	Z-	Acceptance Range	Unc Value	Unc Flag
Aldrin	7.0	5.49	A		1.25	1.87 - 9.12		
delta-BHC	<0.5		A					
alpha-BHC	<0.5		A					
beta-BHC	<0.5		A					
gamma-BHC (Lindane)	6.1	2.86	N		6.00	1.24 - 4.48		
4,4'-DDD	<0.5		A					
4,4'-DDE	6.7	8.00	A		-1.00	4.12 - 11.87		
4,4'-DDT	<0.5		A					
Dieldrin	3.7	4.20	A		-0.74	2.19 - 6.21		
Endosulfan I	<0.5		A					
Endosulfan II	<0.5		A					
Endosulfan sulfate	<0.5		A					
Endrin Aldehyde	<0.5		A					
Endrin	4.3	5.18	A		-0.84	2.04 - 8.33		
Heptachlor	4.7	4.08	A		0.74	1.56 - 6.60		
Heptachlor epoxide	<0.5		A					
Methoxychlor	<1.0		A					
1,2-Dichlorobenzene	<10		A					
1,3-Dichlorobenzene	22	32.7	A		-1.23	6.6 - 58.8		
1,4-Dichlorobenzene	<10		A					
Hexachlorobutadiene	<10		A					
Hexachloroethane	60	82	A		-0.95	13 - 150		
Naphthalene	<10		A					
Nitrobenzene	110	140	A		-1.07	57 - 222		
1,2,4-Trichlorobenzene	20	35.6	A		-1.79	9.4 - 61.7		
Acenaphthene	<10		A					
Acenaphthylene	28	39.2	A		-1.63	18.6 - 59.8		
Anthracene	<10		A					
Benzo(a)anthracene	99	109	A		-0.60	58 - 161		
Benzo(a)pyrene	78	76.6	A		0.09	29.1 - 124.0		
Benzo(b)fluoranthene	<10		A					
Benzo(g,h,i)perylene	<10		A					
Benzo(k)fluoranthene	39	48.4	A		-0.81	13.5 - 83.3		
4-Bromophenyl-phenylether	<10		A					
Butylbenzylphthalate	<10		A					
4-Chloro-3-methylphenol	<10		A					

Organic								Units: (ug/L)
Analyte	Result	Ref Value	Flag	Notes	Z-	Acceptance Range	Unc Value	Unc Flag
bis(2-chloroethoxy)methane	<10		A					
bis(2-chloroethyl)ether	<10		A					
bis(2-chloroisopropyl)ether	76	112	A		-1.44	37 - 187		
2-Chloronaphthalene	30	44.5	A		-1.61	17.5 - 71.5		
2-Chlorophenol	110	149	A		-1.24	54 - 244		
4-Chlorophenyl-phenylether	<10		A					
Chrysene	51	59.0	A		-0.76	27.5 - 90.4		
Dibenzo(a,h)anthracene	<10		A					
Dibenzofuran	<10		A					
Di-n-butylphthalate	63	63.3	A		-0.02	25.3 - 101.3		
2,4-Dichlorophenol	<10		A					
2,6-Dichlorophenol	<10		A					
Diethylphthalate	76	69.6	A		0.36	15.7 - 123.5		
2,4-Dimethylphenol	<10		A					
Dimethylphthalate	<10		A					
2,4-Dinitrophenol	<20		A					
2,4-Dinitrotoluene	100	96	A		0.22	45 - 148		
2,6-Dinitrotoluene	43	53.3	A		-1.13	25.9 - 80.7		
Di-n-octylphthalate	44	50.6	A		-0.58	16.2 - 85.1		
Bis(2-ethylhexyl)phthalate	<10		A					
Fluoranthene	<10		A					
Fluorene	28	35.8	A		-1.21	16.4 - 55.2		
Hexachlorobenzene	<10		A					
Hexachlorocyclopentadiene	<50		A					
Indeno(1,2,3-c,d)pyrene	<10		A					
Isophorone	<10		A					
4,6-Dinitro-2-methylphenol	<20		A					
2-Methylnaphthalene	84	94	A		-0.46	29 - 159		
2-Methylphenol	<10		A					
4-Nitrophenol	140	93	A		1.07	9 - 225		
3-Methyl & 4-Methylphenol	<20		A					
2-Nitrophenol	<10		A					
Pentachlorophenol	91	100	A		-0.42	32 - 169		
Phenanthrene	110	110	A		-0.03	61 - 160		
Phenol	90	88	A		0.05	9 - 210		
Pyrene	54	57.3	A		-0.28	21.9 - 92.8		
2,4,5-Trichlorophenol	66	89	A		-1.39	39 - 140		
2,4,6-Trichlorophenol	<10		A					

NOTE: The spiking solution used to create the MAPEP OrW Standard was prepared by a subcontractor and validated by RESL Chemists.

Criteria based on FoPT Table for NPW - Jan 1, 2008

A = Result acceptable Z-score <=3.0
N = Result not acceptable Z-score > 3.0
NR = Not Reported

Notes:

(1) = False Positive
(2) = False Negative
(10) = Check Isomer

Mixed Analyte Performance Evaluation Program

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

Laboratory Results For MAPEP-08-OrW19
(DAFI01) Davis & Floyd, Inc.
PO Drawer 428
Greenwood, SC 29648

Organic — Units: (ug/L)

Analyte	Result	Ref Value	Flag	Notes	Z-	Acceptance Range	Unc Value	Unc Flag
Aldrin	5.87	5.49	A		0.31	1.87 - 9.12		
delta-BHC	<0.05		A					
alpha-BHC	<0.05		A					
beta-BHC	<0.05		A					
gamma-BHC (Lindane)	3.18	2.86	A		0.59	1.24 - 4.48		
4,4'-DDD	<0.05		A					
4,4'-DDE	7.90	8.00	A		-0.08	4.12 - 11.87		
4,4'-DDT	<0.05		A					
Dieldrin	4.47	4.20	A		0.41	2.19 - 6.21		
Endosulfan I	<0.05		A					
Endosulfan II	<0.05		A					
Endosulfan sulfate	<0.05		A					
Endrin Aldehyde	<0.05		A					
Endrin	5.47	5.18	A		0.28	2.04 - 8.33		
Heptachlor	3.94	4.08	A		-0.17	1.56 - 6.60		
Heptachlor epoxide	<0.05		A					
1,2-Dichlorobenzene	<10		A					
1,3-Dichlorobenzene	28.9	32.7	A		-0.44	6.6 - 58.8		
1,4-Dichlorobenzene	<10		A					
Hexachlorobutadiene	<10		A					
Hexachloroethane	71.7	82	A		-0.44	13 - 150		
Naphthalene	<10		A					
Nitrobenzene	114	140	A		-0.93	57 - 222		
1,2,4-Trichlorobenzene	32.2	35.6	A		-0.39	9.4 - 61.7		
Acenaphthene	<10		A					
Acenaphthylene	36.0	39.2	A		-0.47	18.6 - 59.8		
Anthracene	<10		A					
Benzo(a)anthracene	116	109	A		0.39	58 - 161		
Benzo(a)pyrene	85.7	76.6	A		0.58	29.1 - 124.0		
Benzo(b)fluoranthene	<10		A					
Benzo(g,h,i)perylene	<10		A					
Benzo(k)fluoranthene	51.3	48.4	A		0.25	13.5 - 83.3		
4-Bromophenyl-phenylether	<10		A					
Butylbenzylphthalate	<10		A					
4-Chloro-3-methylphenol	<10		A					
bis(2-chloroethoxy)methane	<10		A					

Organic — Units: (ug/L)

Analyte	Result	Ref Value	Flag	Notes	Z-	Acceptance Range	Unc Value	Unc Flag
bis(2-chloroethyl)ether	<10		A					
bis(2-chloroisopropyl)ether	62.6	112	A		-1.98	37 - 187		
2-Chloronaphthalene	40.1	44.5	A		-0.49	17.5 - 71.5		
2-Chlorophenol	123	149	A		-0.83	54 - 244		
4-Chlorophenyl-phenylether	<10		A					
Chrysene	60.0	59.0	A		0.10	27.5 - 90.4		
Dibenzo(a,h)anthracene	<10		A					
Dibenzofuran	<10		A					
Di-n-butylphthalate	60.6	63.3	A		-0.21	25.3 - 101.3		
2,4-Dichlorophenol	<10		A					
2,6-Dichlorophenol	<10		A					
Diethylphthalate	69.9	69.6	A		0.02	15.7 - 123.5		
2,4-Dimethylphenol	<10		A					
Dimethylphthalate	<10		A					
2,4-Dinitrophenol	<25		A					
2,4-Dinitrotoluene	103	96	A		0.39	45 - 148		
2,6-Dinitrotoluene	47.3	53.3	A		-0.66	25.9 - 80.7		
Di-n-octylphthalate	51.7	50.6	A		0.09	16.2 - 85.1		
Bis(2-ethylhexyl)phthalate	<10		A					
Fluoranthene	<10		A					
Fluorene	33.1	35.8	A		-0.42	16.4 - 55.2		
Hexachlorobenzene	<10		A					
Hexachlorocyclopentadiene	<10		A					
Indeno(1,2,3-c,d)pyrene	<10		A					
Isophorone	<10		A					
4,6-Dinitro-2-methylphenol	<25		A					
2-Methylnaphthalene	103	94	A		0.42	29 - 159		
2-Methylphenol	<10		A					
4-Nitrophenol	91.4	93	A		-0.03	9 - 225		
3-Methyl & 4-Methylphenol	<10		A					
2-Nitrophenol	<10		A					
Pentachlorophenol	55.0	100	A		-2.00	32 - 169		
Phenanthrene	118	110	A		0.46	61 - 160		
Phenol	63.6	88	A		-0.60	9 - 210		
Pyrene	59.6	57.3	A		0.19	21.9 - 92.8		
2,4,5-Trichlorophenol	78.1	89	A		-0.67	39 - 140		
2,4,6-Trichlorophenol	<10		A					

NOTE: The spiking solution used to create the MAPEP OrW Standard was prepared by a subcontractor and validated by RESL Chemists.

Criteria based on FoPT Table for NPW - Jan 1, 2008

A = Result acceptable Z-score <=3.0
N = Result not acceptable Z-score > 3.0
NR = Not Reported

Notes:

(1) = False Positive
(2) = False Negative
(10) = Check Isomer

Mixed Analyte Performance Evaluation Program

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

Laboratory Results For MAPEP-08-OrW19
(EMAX01) EMAX Laboratories, Inc
1835 W. 205th St.
Torrance, CA 90501

Organic — Units: (ug/L)

Analyte	Result	Ref Value	Flag	Notes	Z-	Acceptance Range	Unc Value	Unc Flag
Aldrin	NR	5.49				1.87 - 9.12		
gamma-BHC (Lindane)	NR	2.86				1.24 - 4.48		
4,4'-DDE	NR	8.00				4.12 - 11.87		
Dieldrin	NR	4.20				2.19 - 6.21		
Endrin	NR	5.18				2.04 - 8.33		
Heptachlor	NR	4.08				1.56 - 6.60		
1,2-Dichlorobenzene	<5		A					
1,3-Dichlorobenzene	37.71429	32.7	A		0.58	6.6 - 58.8		
1,4-Dichlorobenzene	<5		A					
Hexachlorobutadiene	<5		A					
Hexachloroethane	93.1461	82	A		0.51	13 - 150		
Naphthalene	<5		A					
Nitrobenzene	154.227	140	A		0.53	57 - 222		
1,2,4-Trichlorobenzene	38.92838	35.6	A		0.39	9.4 - 61.7		
Acenaphthene	<5		A					
Acenaphthylene	42.81124	39.2	A		0.53	18.6 - 59.8		
Anthracene	<5		A					
Benzo(a)anthracene	103.132	109	A		-0.36	58 - 161		
Benzo(a)pyrene	76.84533	76.6	A		0.02	29.1 - 124.0		
Benzo(b)fluoranthene	<5		A					
Benzo(g,h,i)perylene	<5		A					
Benzo(k)fluoranthene	43.51295	48.4	A		-0.42	13.5 - 83.3		
4-Bromophenyl-phenylether	<5		A					
Butylbenzylphthalate	<5		A					
4-Chloro-3-methylphenol	<5		A					
bis(2-chloroethoxy)methane	<5		A					
bis(2-chloroethyl)ether	<5		A					
bis(2-chloroisopropyl)ether	99.67067	112	A		-0.49	37 - 187		
2-Chloronaphthalene	50.16667	44.5	A		0.63	17.5 - 71.5		
2-Chlorophenol	157.441	149	A		0.26	54 - 244		
4-Chlorophenyl-phenylether	<5		A					
Chrysene	60.79124	59.0	A		0.17	27.5 - 90.4		
Dibenzo(a,h)anthracene	<5		A					
Dibenzofuran	<5		A					
Di-n-butylphthalate	74.59067	63.3	A		0.89	25.3 - 101.3		
2,4-Dichlorophenol	<5		A					

Organic								Units: (ug/L)
Analyte	Result	Ref Value	Flag	Notes	Z-	Acceptance Range	Unc Value	Unc Flag
2,6-Dichlorophenol	<5		A					
Diethylphthalate	78.052	69.6	A		0.47	15.7 - 123.5		
2,4-Dimethylphenol	<5		A					
Dimethylphthalate	<5		A					
2,4-Dinitrophenol	<5		A					
2,4-Dinitrotoluene	109.669	96	A		0.78	45 - 148		
2,6-Dinitrotoluene	59.69105	53.3	A		0.70	25.9 - 80.7		
Di-n-octylphthalate	38.28552	50.6	A		-1.07	16.2 - 85.1		
Bis(2-ethylhexyl)phthalate	<5		A					
Fluoranthene	<5		A					
Fluorene	38.05848	35.8	A		0.35	16.4 - 55.2		
Hexachlorobenzene	<5		A					
Hexachlorocyclopentadiene	<5		A					
Indeno(1,2,3-c,d)pyrene	<5		A					
Isophorone	<5		A					
4,6-Dinitro-2-methylphenol	<5		A					
2-Methylnaphthalene	121.4514	94	A		1.28	29 - 159		
4-Nitrophenol	139.207	93	A		1.05	9 - 225		
2-Methylphenol	<5		A					
3-Methyl & 4-Methylphenol	<5		A					
2-Nitrophenol	<5		A					
Pentachlorophenol	92.03714	100	A		-0.37	32 - 169		
Phenanthrene	124.0044	110	A		0.83	61 - 160		
Phenol	129.5648	88	A		1.02	9 - 210		
Pyrene	55.39848	57.3	A		-0.17	21.9 - 92.8		
2,4,5-Trichlorophenol	103.6817	89	A		0.85	39 - 140		
2,4,6-Trichlorophenol	<5		A					

NOTE: The spiking solution used to create the MAPEP OrW Standard was prepared by a subcontractor and validated by RESL Chemists.

Criteria based on FoPT Table for NPW - Jan 1, 2008

A = Result acceptable Z-score <=3.0
N = Result not acceptable Z-score > 3.0
NR = Not Reported

Notes:

(1) = False Positive
(2) = False Negative
(10) = Check Isomer

Mixed Analyte Performance Evaluation Program

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

Laboratory Results For MAPEP-08-OrW19
(GENE01) GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407

Organic — Units: (ug/L)

Analyte	Result	Ref Value	Flag	Notes	Z-	Acceptance Range	Unc Value	Unc Flag
Aldrin	5.17	5.49	A		-0.27	1.87 - 9.12		
delta-BHC	<0.019		A					
alpha-BHC	<0.019		A					
beta-BHC	<0.019		A					
gamma-BHC (Lindane)	3.70	2.86	A		1.56	1.24 - 4.48		
4,4'-DDD	<0.038		A					
4,4'-DDE	7.60	8.00	A		-0.31	4.12 - 11.87		
4,4'-DDT	<0.038		A					
Dieldrin	3.89	4.20	A		-0.46	2.19 - 6.21		
Endosulfan I	<0.019		A					
Endosulfan II	<0.038		A					
Endosulfan sulfate	<0.038		A					
Endrin Aldehyde	.172		W	(1)				
Endrin	4.68	5.18	A		-0.48	2.04 - 8.33		
Heptachlor	1.04	4.08	N		-3.62	1.56 - 6.60		
Heptachlor epoxide	<0.019		A					
Methoxychlor	<19.0		A					
1,2-Dichlorobenzene	<9.52		A					
1,3-Dichlorobenzene	29.5	32.7	A		-0.37	6.6 - 58.8		
1,4-Dichlorobenzene	<9.52		A					
Hexachlorobutadiene	<9.52		A					
Hexachloroethane	72.2	82	A		-0.42	13 - 150		
Naphthalene	<.952		A					
Nitrobenzene	155	140	A		0.56	57 - 222		
1,2,4-Trichlorobenzene	33.1	35.6	A		-0.28	9.4 - 61.7		
Acenaphthene	<.952		A					
Acenaphthylene	37.4	39.2	A		-0.26	18.6 - 59.8		
Anthracene	<.952		A					
Benzo(a)anthracene	95.3	109	A		-0.82	58 - 161		
Benzo(a)pyrene	78.8	76.6	A		0.14	29.1 - 124.0		
Benzo(b)fluoranthene	<.952		A					
Benzo(g,h,i)perylene	<.952		A					
Benzo(k)fluoranthene	40.6	48.4	A		-0.67	13.5 - 83.3		
4-Bromophenyl-phenylether	<9.52		A					
Butylbenzylphthalate	<9.52		A					
4-Chloro-3-methylphenol	<9.52		A					

Organic								Units: (ug/L)
Analyte	Result	Ref Value	Flag	Notes	Z-	Acceptance Range	Unc Value	Unc Flag
bis(2-chloroethoxy)methane	<9.52		A					
bis(2-chloroethyl)ether	<9.52		A					
bis(2-chloroisopropyl)ether	110	112	A		-0.08	37 - 187		
2-Chloronaphthalene	41.5	44.5	A		-0.33	17.5 - 71.5		
2-Chlorophenol	146	149	A		-0.10	54 - 244		
4-Chlorophenyl-phenylether	<9.52		A					
Chrysene	54.0	59.0	A		-0.48	27.5 - 90.4		
Dibenzo(a,h)anthracene	<.952		A					
Dibenzofuran	<9.52		A					
Di-n-butylphthalate	58.1	63.3	A		-0.41	25.3 - 101.3		
2,4-Dichlorophenol	<9.52		A					
2,6-Dichlorophenol	<9.52		A					
Diethylphthalate	67.4	69.6	A		-0.12	15.7 - 123.5		
2,4-Dimethylphenol	<9.52		A					
Dimethylphthalate	<9.52		A					
2,4-Dinitrophenol	<9.52		A					
2,4-Dinitrotoluene	91.6	96	A		-0.27	45 - 148		
2,6-Dinitrotoluene	46.7	53.3	A		-0.72	25.9 - 80.7		
Di-n-octylphthalate	40.2	50.6	A		-0.91	16.2 - 85.1		
Bis(2-ethylhexyl)phthalate	<9.52		A					
Fluoranthene	<.952		A					
Fluorene	33.0	35.8	A		-0.43	16.4 - 55.2		
Hexachlorobenzene	<9.52		A					
Hexachlorocyclopentadiene	<9.52		A					
Indeno(1,2,3-c,d)pyrene	<.952		A					
Isophorone	<9.52		A					
4,6-Dinitro-2-methylphenol	<9.52		A					
2-Methylnaphthalene	101	94	A		0.33	29 - 159		
2-Methylphenol	<9.52		A					
4-Nitrophenol	50.0	93	A		-0.97	9 - 225		
3-Methyl & 4-Methylphenol	<9.52		A					
2-Nitrophenol	<9.52		A					
Pentachlorophenol	89.9	100	A		-0.47	32 - 169		
Phenanthrene	91.6	110	A		-1.15	61 - 160		
Phenol	47.1	88	A		-1.01	9 - 210		
Pyrene	60.9	57.3	A		0.30	21.9 - 92.8		
2,4,5-Trichlorophenol	85.5	89	A		-0.23	39 - 140		
2,4,6-Trichlorophenol	<9.52		A					

NOTE: The spiking solution used to create the MAPEP OrW Standard was prepared by a subcontractor and validated by RESL Chemists.

Criteria based on FoPT Table for NPW - Jan 1, 2008

A = Result acceptable Z-score <=3.0
N = Result not acceptable Z-score > 3.0
NR = Not Reported

Notes:

(1) = False Positive
(2) = False Negative
(10) = Check Isomer

Mixed Analyte Performance Evaluation Program

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

Laboratory Results For MAPEP-08-OrW19
(GPLP01) GPL Laboratories, LLLP
7210A Corporate Court
Frederick, MD 21703

Organic — Units: (ug/L)

Analyte	Result	Ref Value	Flag	Notes	Z-	Acceptance Range	Unc Value	Unc Flag
Aldrin	4.4	5.49	A		-0.91	1.87 - 9.12		
delta-BHC	<0.05		A					
alpha-BHC	<0.05		A					
beta-BHC	<0.05		A					
gamma-BHC (Lindane)	3.3	2.86	A		0.81	1.24 - 4.48		
4,4'-DDD	<0.05		A					
4,4'-DDE	4.8	8.00	A		-2.48	4.12 - 11.87		
4,4'-DDT	<0.05		A					
Dieldrin	3.4	4.20	A		-1.19	2.19 - 6.21		
Endosulfan I	<0.05		A					
Endosulfan II	<0.05		A					
Endosulfan sulfate	<0.05		A					
Endrin Aldehyde	<0.05		A					
Endrin	4.3	5.18	A		-0.84	2.04 - 8.33		
Heptachlor	3.0	4.08	A		-1.29	1.56 - 6.60		
Heptachlor epoxide	<0.05		A					
Methoxychlor	<0.05		A					
1,2-Dichlorobenzene	<10		A					
1,3-Dichlorobenzene	<10	32.7	N	(2)		6.6 - 58.8		
1,4-Dichlorobenzene	<10		A					
Hexachlorobutadiene	<10		A					
Hexachloroethane	83	82	A		0.06	13 - 150		
Naphthalene	<10		A					
Nitrobenzene	140	140	A		0.01	57 - 222		
1,2,4-Trichlorobenzene	39	35.6	A		0.39	9.4 - 61.7		
Acenaphthene	<10		A					
Acenaphthylene	43	39.2	A		0.55	18.6 - 59.8		
Anthracene	<10		A					
Benzo(a)anthracene	72	109	A		-2.18	58 - 161		
Benzo(a)pyrene	58	76.6	A		-1.17	29.1 - 124.0		
Benzo(b)fluoranthene	<10		A					
Benzo(g,h,i)perylene	<10		A					
Benzo(k)fluoranthene	37	48.4	A		-0.98	13.5 - 83.3		
4-Bromophenyl-phenylether	<10		A					
Butylbenzylphthalate	<10		A					
4-Chloro-3-methylphenol	<10		A					

Organic								Units: (ug/L)
Analyte	Result	Ref Value	Flag	Notes	Z-	Acceptance Range	Unc Value	Unc Flag
bis(2-chloroethoxy)methane	<10		A					
bis(2-chloroethyl)ether	<10		A					
bis(2-chloroisopropyl)ether	110	112	A		-0.08	37 - 187		
2-Chloronaphthalene	53	44.5	A		0.95	17.5 - 71.5		
2-Chlorophenol	140	149	A		-0.29	54 - 244		
4-Chlorophenyl-phenylether	<10		A					
Chrysene	41	59.0	A		-1.72	27.5 - 90.4		
Dibenzo(a,h)anthracene	<10		A					
Dibenzofuran	<10		A					
Di-n-butylphthalate	62	63.3	A		-0.10	25.3 - 101.3		
2,4-Dichlorophenol	<10		A					
Diethylphthalate	<10	69.6	N	(2)		15.7 - 123.5		
2,4-Dimethylphenol	<10		A					
Dimethylphthalate	73		N	(1)				
2,4-Dinitrophenol	<20		A					
2,4-Dinitrotoluene	97	96	A		0.04	45 - 148		
2,6-Dinitrotoluene	53	53.3	A		-0.03	25.9 - 80.7		
Di-n-octylphthalate	37	50.6	A		-1.19	16.2 - 85.1		
Bis(2-ethylhexyl)phthalate	<10		A					
Fluoranthene	<10		A					
Fluorene	37	35.8	A		0.19	16.4 - 55.2		
Hexachlorobenzene	<10		A					
Hexachlorocyclopentadiene	<10		A					
Indeno(1,2,3-c,d)pyrene	<10		A					
Isophorone	<10		A					
4,6-Dinitro-2-methylphenol	<20		A					
2-Methylnaphthalene	100	94	A		0.28	29 - 159		
2-Methylphenol	<10		A					
4-Nitrophenol	100	93	A		0.16	9 - 225		
2-Nitrophenol	<10		A					
Pentachlorophenol	59	100	A		-1.82	32 - 169		
Phenanthrene	110	110	A		-0.03	61 - 160		
Phenol	120	88	A		0.78	9 - 210		
Pyrene	62	57.3	A		0.39	21.9 - 92.8		
2,4,5-Trichlorophenol	90	89	A		0.04	39 - 140		
2,4,6-Trichlorophenol	<10		A					

NOTE: The spiking solution used to create the MAPEP OrW Standard was prepared by a subcontractor and validated by RESL Chemists.

Criteria based on FoPT Table for NPW - Jan 1, 2008

A = Result acceptable Z-score <=3.0
N = Result not acceptable Z-score > 3.0
NR = Not Reported

Notes:

(1) = False Positive
(2) = False Negative
(10) = Check Isomer

Mixed Analyte Performance Evaluation Program

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

Laboratory Results For MAPEP-08-OrW19
(MART01) USEC, Inc.
Lab COC, Bldg. X-710, Rm 222
Piketon, OH 45661-

Organic — Units: (ug/L)

Analyte	Result	Ref Value	Flag	Notes	Z-	Acceptance Range	Unc Value	Unc Flag
Aldrin	5.93	5.49	A		0.36	1.87 - 9.12		
delta-BHC	<0.2		A					
alpha-BHC	<0.2		A					
beta-BHC	<0.2		A					
gamma-BHC (Lindane)	3.59	2.86	A		1.35	1.24 - 4.48		
4,4'-DDD	<0.2		A					
4,4'-DDE	8.52	8.00	A		0.41	4.12 - 11.87		
4,4'-DDT	<0.2		A					
Dieldrin	4.10	4.20	A		-0.15	2.19 - 6.21		
Endosulfan I	<0.2		A					
Endosulfan II	<0.2		A					
Endosulfan sulfate	<0.2		A					
Endrin Aldehyde	<0.2		A					
Endrin	4.99	5.18	A		-0.18	2.04 - 8.33		
Heptachlor	3.63	4.08	A		-0.54	1.56 - 6.60		
Heptachlor epoxide	<0.2		A					
Methoxychlor	<0.2		A					
1,3-Dichlorobenzene	NR	32.7				6.6 - 58.8		
Hexachloroethane	NR	82				13 - 150		
Nitrobenzene	NR	140				57 - 222		
1,2,4-Trichlorobenzene	NR	35.6				9.4 - 61.7		
Acenaphthylene	NR	39.2				18.6 - 59.8		
Benzo(a)anthracene	NR	109				58 - 161		
Benzo(a)pyrene	NR	76.6				29.1 - 124.0		
Benzo(k)fluoranthene	NR	48.4				13.5 - 83.3		
bis(2-chloroisopropyl)ether	NR	112				37 - 187		
2-Chloronaphthalene	NR	44.5				17.5 - 71.5		
2-Chlorophenol	NR	149				54 - 244		
Chrysene	NR	59.0				27.5 - 90.4		
Di-n-butylphthalate	NR	63.3				25.3 - 101.3		
Diethylphthalate	NR	69.6				15.7 - 123.5		
2,4-Dinitrotoluene	NR	96				45 - 148		
2,6-Dinitrotoluene	NR	53.3				25.9 - 80.7		
Di-n-octylphthalate	NR	50.6				16.2 - 85.1		
Fluorene	NR	35.8				16.4 - 55.2		
2-Methylnaphthalene	NR	94				29 - 159		

Organic								Units: (ug/L)
Analyte	Result	Ref Value	Flag	Notes	Z-	Acceptance Range	Unc Value	Unc Flag
4-Nitrophenol	NR	93				9 - 225		
Pentachlorophenol	NR	100				32 - 169		
Phenanthrene	NR	110				61 - 160		
Phenol	NR	88				9 - 210		
Pyrene	NR	57.3				21.9 - 92.8		
2,4,5-Trichlorophenol	NR	89				39 - 140		

NOTE: The spiking solution used to create the MAPEP OrW Standard was prepared by a subcontractor and validated by RESL Chemists.

Criteria based on FoPT Table for NPW - Jan 1, 2008

A = Result acceptable Z-score <=3.0
N = Result not acceptable Z-score > 3.0
NR = Not Reported

Notes:

(1) = False Positive
(2) = False Negative
(10) = Check Isomer

Mixed Analyte Performance Evaluation Program

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

Laboratory Results For MAPEP-08-OrW19
(MART02) United States Enrichment Corporation
PO Box 1410
Paducah, KY 42002

Organic — Units: (ug/L)

Analyte	Result	Ref Value	Flag	Notes	Z-	Acceptance Range	Unc Value	Unc Flag
Aldrin	NR	5.49				1.87 - 9.12		
gamma-BHC (Lindane)	NR	2.86				1.24 - 4.48		
4,4'-DDE	NR	8.00				4.12 - 11.87		
Dieldrin	NR	4.20				2.19 - 6.21		
Endrin	NR	5.18				2.04 - 8.33		
Heptachlor	NR	4.08				1.56 - 6.60		
1,2-Dichlorobenzene	<5		A					
1,3-Dichlorobenzene	43.6	32.7	A		1.26	6.6 - 58.8		
1,4-Dichlorobenzene	<5		A					
Hexachlorobutadiene	<5		A					
Hexachloroethane	105	82	A		1.03	13 - 150		
Naphthalene	<5		A					
Nitrobenzene	170	140	A		1.10	57 - 222		
1,2,4-Trichlorobenzene	40.2	35.6	A		0.53	9.4 - 61.7		
Acenaphthene	<5		A					
Acenaphthylene	41.6	39.2	A		0.35	18.6 - 59.8		
Anthracene	<5		A					
Benzo(a)anthracene	114	109	A		0.28	58 - 161		
Benzo(a)pyrene	90.6	76.6	A		0.89	29.1 - 124.0		
Benzo(b)fluoranthene	<5		A					
Benzo(g,h,i)perylene	<5		A					
Benzo(k)fluoranthene	55.0	48.4	A		0.57	13.5 - 83.3		
Butylbenzylphthalate	<5		A					
4-Chloro-3-methylphenol	<5		A					
bis(2-chloroisopropyl)ether	147	112	A		1.41	37 - 187		
2-Chloronaphthalene	52.4	44.5	A		0.88	17.5 - 71.5		
2-Chlorophenol	171	149	A		0.69	54 - 244		
Chrysene	60.9	59.0	A		0.18	27.5 - 90.4		
Dibenzo(a,h)anthracene	<5		A					
Dibenzofuran	<5		A					
Di-n-butylphthalate	72.9	63.3	A		0.76	25.3 - 101.3		
2,6-Dichlorophenol	<5		A					
Diethylphthalate	81.0	69.6	A		0.64	15.7 - 123.5		
2,4-Dimethylphenol	<5		A					
Dimethylphthalate	<5		A					
2,4-Dinitrophenol	<5		A					

Organic								Units: (ug/L)
Analyte	Result	Ref Value	Flag	Notes	Z-	Acceptance Range	Unc Value	Unc Flag
2,4-Dinitrotoluene	110	96	A		0.80	45 - 148		
2,6-Dinitrotoluene	58.9	53.3	A		0.61	25.9 - 80.7		
Di-n-octylphthalate	49.2	50.6	A		-0.12	16.2 - 85.1		
Bis(2-ethylhexyl)phthalate	<5		A					
Fluoranthene	<5		A					
Fluorene	37.3	35.8	A		0.23	16.4 - 55.2		
Hexachlorobenzene	<5		A					
Hexachlorocyclopentadiene	<5		A					
Indeno(1,2,3-c,d)pyrene	<5		A					
Isophorone	<5		A					
4,6-Dinitro-2-methylphenol	<5		A					
2-Methylnaphthalene	131	94	A		1.72	29 - 159		
2-Methylphenol	<5		A					
4-Nitrophenol	57.2	93	A		-0.81	9 - 225		
3-Methyl & 4-Methylphenol	<5		A					
2-Nitrophenol	<5		A					
Pentachlorophenol	109	100	A		0.38	32 - 169		
Phenanthrene	121	110	A		0.64	61 - 160		
Phenol	55.8	88	A		-0.79	9 - 210		
Pyrene	60.1	57.3	A		0.23	21.9 - 92.8		
2,4,5-Trichlorophenol	94.2	89	A		0.29	39 - 140		
2,4,6-Trichlorophenol	<5		A					

NOTE: The spiking solution used to create the MAPEP OrW Standard was prepared by a subcontractor and validated by RESL Chemists.

Criteria based on FoPT Table for NPW - Jan 1, 2008

A = Result acceptable Z-score <=3.0
N = Result not acceptable Z-score > 3.0
NR = Not Reported

Notes:

(1) = False Positive
(2) = False Negative
(10) = Check Isomer

Mixed Analyte Performance Evaluation Program

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

Laboratory Results For MAPEP-08-OrW19
(NARL01) National Air and Radiation Environmental Laboratory
540 S. Morris Ave.
Montgomery, AL 36115-2601

Organic — Units: (ug/L)

Analyte	Result	Ref Value	Flag	Notes	Z-	Acceptance Range	Unc Value	Unc Flag
Aldrin	6.34	5.49	A		0.70	1.87 - 9.12		
delta-BHC	<0.5		A					
alpha-BHC	<0.5		A					
beta-BHC	<0.5		A					
gamma-BHC (Lindane)	<0.5	2.86	N	(2)		1.24 - 4.48		
4,4'-DDD	<0.5		A					
4,4'-DDE	8.64	8.00	A		0.50	4.12 - 11.87		
4,4'-DDT	<0.5		A					
Dieldrin	3.94	4.20	A		-0.39	2.19 - 6.21		
Endosulfan I	<0.5		A					
Endosulfan II	<0.5		A					
Endosulfan sulfate	<0.5		A					
Endrin Aldehyde	<0.5		A					
Endrin	5.02	5.18	A		-0.16	2.04 - 8.33		
Heptachlor	3.69	4.08	A		-0.46	1.56 - 6.60		
Heptachlor epoxide	<0.5		A					
Methoxychlor	<0.5		A					
1,3-Dichlorobenzene	NR	32.7				6.6 - 58.8		
Hexachloroethane	NR	82				13 - 150		
Nitrobenzene	NR	140				57 - 222		
1,2,4-Trichlorobenzene	NR	35.6				9.4 - 61.7		
Acenaphthylene	NR	39.2				18.6 - 59.8		
Benzo(a)anthracene	NR	109				58 - 161		
Benzo(a)pyrene	NR	76.6				29.1 - 124.0		
Benzo(k)fluoranthene	NR	48.4				13.5 - 83.3		
bis(2-chloroisopropyl)ether	NR	112				37 - 187		
2-Chloronaphthalene	NR	44.5				17.5 - 71.5		
2-Chlorophenol	NR	149				54 - 244		
Chrysene	NR	59.0				27.5 - 90.4		
Di-n-butylphthalate	NR	63.3				25.3 - 101.3		
Diethylphthalate	NR	69.6				15.7 - 123.5		
2,4-Dinitrotoluene	NR	96				45 - 148		
2,6-Dinitrotoluene	NR	53.3				25.9 - 80.7		
Di-n-octylphthalate	NR	50.6				16.2 - 85.1		
Fluorene	NR	35.8				16.4 - 55.2		
2-Methylnaphthalene	NR	94				29 - 159		

Organic								Units: (ug/L)
Analyte	Result	Ref Value	Flag	Notes	Z-	Acceptance Range	Unc Value	Unc Flag
4-Nitrophenol	NR	93				9 - 225		
Pentachlorophenol	NR	100				32 - 169		
Phenanthrene	NR	110				61 - 160		
Phenol	NR	88				9 - 210		
Pyrene	NR	57.3				21.9 - 92.8		
2,4,5-Trichlorophenol	NR	89				39 - 140		

NOTE: The spiking solution used to create the MAPEP OrW Standard was prepared by a subcontractor and validated by RESL Chemists.

Criteria based on FoPT Table for NPW - Jan 1, 2008

A = Result acceptable Z-score <=3.0
N = Result not acceptable Z-score > 3.0
NR = Not Reported

Notes:

(1) = False Positive
(2) = False Negative
(10) = Check Isomer

Mixed Analyte Performance Evaluation Program

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

Laboratory Results For MAPEP-08-OrW19
(NMLA01) Assaigai Analytical Laboratories, Inc.
4301 Masthead NE Ste. A
Albuquerque, NM 87109

Organic — Units: (ug/L)

Analyte	Result	Ref Value	Flag	Notes	Z-	Acceptance Range	Unc Value	Unc Flag
Aldrin	3.1	5.49	A		-1.98	1.87 - 9.12		
delta-BHC	< 0.20		A					
alpha-BHC	< 0.20		A					
beta-BHC	< 0.20		A					
gamma-BHC (Lindane)	2.5	2.86	A		-0.67	1.24 - 4.48		
4,4'-DDD	< 0.20		A					
4,4'-DDE	3.0	8.00	N		-3.87	4.12 - 11.87		
4,4'-DDT	< 0.20		A					
Dieldrin	3.7	4.20	A		-0.74	2.19 - 6.21		
Endosulfan I	< 0.20		A					
Endosulfan II	< 0.20		A					
Endosulfan sulfate	< 0.20		A					
Endrin Aldehyde	< 0.20		A					
Endrin	4.9	5.18	A		-0.27	2.04 - 8.33		
Heptachlor	2.6	4.08	A		-1.76	1.56 - 6.60		
Heptachlor epoxide	< 0.20		A					
Methoxychlor	< 0.20		A					
1,2-Dichlorobenzene	< 2.0		A					
1,3-Dichlorobenzene	27.0	32.7	A		-0.65	6.6 - 58.8		
1,4-Dichlorobenzene	< 2.0		A					
Hexachlorobutadiene	< 20.0		A					
Hexachloroethane	58.0	82	A		-1.04	13 - 150		
Naphthalene	< 2.0		A					
Nitrobenzene	140	140	A		0.01	57 - 222		
1,2,4-Trichlorobenzene	29.0	35.6	A		-0.75	9.4 - 61.7		
Acenaphthene	< 2.0		A					
Acenaphthylene	36.0	39.2	A		-0.47	18.6 - 59.8		
Anthracene	< 2.0		A					
Benzo(a)anthracene	67.0	109	A		-2.47	58 - 161		
Benzo(a)pyrene	40.0	76.6	A		-2.31	29.1 - 124.0		
Benzo(b)fluoranthene	< 2.0		A					
Benzo(g,h,i)perylene	< 2.0		A					
Benzo(k)fluoranthene	24.0	48.4	A		-2.10	13.5 - 83.3		
4-Bromophenyl-phenylether	< 2.0		A					
Butylbenzylphthalate	< 2.0		A					
4-Chloro-3-methylphenol	< 10.0		A					

Organic								Units: (ug/L)
Analyte	Result	Ref Value	Flag	Notes	Z-	Acceptance Range	Unc Value	Unc Flag
bis(2-chloroethoxy)methane	< 2.0		A					
bis(2-chloroethyl)ether	< 2.0		A					
bis(2-chloroisopropyl)ether	120	112	A		0.33	37 - 187		
2-Chloronaphthalene	42.0	44.5	A		-0.28	17.5 - 71.5		
2-Chlorophenol	110	149	A		-1.24	54 - 244		
4-Chlorophenyl-phenylether	< 2.0		A					
Chrysene	35.0	59.0	A		-2.29	27.5 - 90.4		
Dibenzo(a,h)anthracene	< 2.0		A					
Dibenzofuran	< 2.0		A					
Di-n-butylphthalate	58.0	63.3	A		-0.42	25.3 - 101.3		
2,4-Dichlorophenol	< 10.0		A					
Diethylphthalate	68.0	69.6	A		-0.09	15.7 - 123.5		
2,4-Dimethylphenol	< 10.0		A					
Dimethylphthalate	< 2.0		A					
2,4-Dinitrophenol	< 20.0		A					
2,4-Dinitrotoluene	92.0	96	A		-0.25	45 - 148		
2,6-Dinitrotoluene	44.0	53.3	A		-1.02	25.9 - 80.7		
Di-n-octylphthalate	20.0	50.6	A		-2.67	16.2 - 85.1		
Bis(2-ethylhexyl)phthalate	< 10.0		A					
Fluoranthene	< 2.0		A					
Fluorene	32.0	35.8	A		-0.59	16.4 - 55.2		
Hexachlorobenzene	< 20.0		A					
Hexachlorocyclopentadiene	< 20.0		A					
Indeno(1,2,3-c,d)pyrene	< 2.0		A					
Isophorone	< 2.0		A					
4,6-Dinitro-2-methylphenol	< 20.0		A					
2-Methylnaphthalene	100	94	A		0.28	29 - 159		
2-Methylphenol	< 10.0		A					
4-Nitrophenol	51.0	93	A		-0.95	9 - 225		
3-Methyl & 4-Methylphenol	< 10.0		A					
2-Nitrophenol	< 10.0		A					
Pentachlorophenol	82.0	100	A		-0.81	32 - 169		
Phenanthrene	100	110	A		-0.64	61 - 160		
Phenol	47.0	88	A		-1.01	9 - 210		
Pyrene	46.0	57.3	A		-0.96	21.9 - 92.8		
2,4,5-Trichlorophenol	65.0	89	A		-1.44	39 - 140		
2,4,6-Trichlorophenol	< 10.0		A					

NOTE: The spiking solution used to create the MAPEP OrW Standard was prepared by a subcontractor and validated by RESL Chemists.

Criteria based on FoPT Table for NPW - Jan 1, 2008

A = Result acceptable Z-score <=3.0
N = Result not acceptable Z-score > 3.0
NR = Not Reported

Notes:

(1) = False Positive
(2) = False Negative
(10) = Check Isomer

Mixed Analyte Performance Evaluation Program

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

Laboratory Results For MAPEP-08-OrW19
(OBGL01) Life Science Laboratories, Inc.
5000 Brittonfield Pkwy, Ste. 200
East Syracuse, NY 13057

Organic — Units: (ug/L)

Analyte	Result	Ref Value	Flag	Notes	Z-	Acceptance Range	Unc Value	Unc Flag
Aldrin	NR	5.49				1.87 - 9.12		
gamma-BHC (Lindane)	NR	2.86				1.24 - 4.48		
4,4'-DDE	NR	8.00				4.12 - 11.87		
Dieldrin	NR	4.20				2.19 - 6.21		
Endrin	NR	5.18				2.04 - 8.33		
Heptachlor	NR	4.08				1.56 - 6.60		
1,2-Dichlorobenzene	<9.4		A					
1,3-Dichlorobenzene	38	32.7	A		0.61	6.6 - 58.8		
1,4-Dichlorobenzene	<9.4		A					
Hexachlorobutadiene	<9.4		A					
Hexachloroethane	96	82	A		0.63	13 - 150		
Naphthalene	<9.4		A					
Nitrobenzene	140	140	A		0.01	57 - 222		
1,2,4-Trichlorobenzene	40	35.6	A		0.51	9.4 - 61.7		
Acenaphthene	<9.4		A					
Acenaphthylene	48	39.2	A		1.28	18.6 - 59.8		
Anthracene	<9.4		A					
Benzo(a)anthracene	130	109	A		1.21	58 - 161		
Benzo(a)pyrene	100	76.6	A		1.48	29.1 - 124.0		
Benzo(b)fluoranthene	<9.4		A					
Benzo(g,h,i)perylene	<9.4		A					
Benzo(k)fluoranthene	60	48.4	A		1.00	13.5 - 83.3		
4-Bromophenyl-phenylether	<9.4		A					
Butylbenzylphthalate	<9.4		A					
4-Chloro-3-methylphenol	<9.4		A					
bis(2-chloroethoxy)methane	<9.4		A					
bis(2-chloroethyl)ether	<9.4		A					
bis(2-chloroisopropyl)ether	120	112	A		0.33	37 - 187		
2-Chloronaphthalene	52	44.5	A		0.83	17.5 - 71.5		
2-Chlorophenol	130	149	A		-0.61	54 - 244		
4-Chlorophenyl-phenylether	<9.4		A					
Chrysene	72	59.0	A		1.24	27.5 - 90.4		
Dibenzo(a,h)anthracene	<9.4		A					
Dibenzofuran	<9.4		A					
Di-n-butylphthalate	70	63.3	A		0.53	25.3 - 101.3		
2,4-Dichlorophenol	<9.4		A					

Organic								Units: (ug/L)
Analyte	Result	Ref Value	Flag	Notes	Z-	Acceptance Range	Unc Value	Unc Flag
Diethylphthalate	77	69.6	A		0.41	15.7 - 123.5		
2,4-Dimethylphenol	<9.4		A					
Dimethylphthalate	<9.4		A					
2,4-Dinitrophenol	<47		A					
2,4-Dinitrotoluene	110	96	A		0.80	45 - 148		
2,6-Dinitrotoluene	57	53.3	A		0.41	25.9 - 80.7		
Di-n-octylphthalate	58	50.6	A		0.64	16.2 - 85.1		
Bis(2-ethylhexyl)phthalate	<9.4		A					
Fluoranthene	<9.4		A					
Fluorene	45	35.8	A		1.43	16.4 - 55.2		
Hexachlorobenzene	<9.4		A					
Hexachlorocyclopentadiene	<9.4		A					
Indeno(1,2,3-c,d)pyrene	<9.4		A					
Isophorone	<9.4		A					
4,6-Dinitro-2-methylphenol	<9.4		A					
2-Methylnaphthalene	110	94	A		0.75	29 - 159		
4-Nitrophenol	140	93	A		1.07	9 - 225		
2-Methylphenol	<9.4		A					
2-Nitrophenol	<9.4		A					
Pentachlorophenol	94	100	A		-0.28	32 - 169		
Phenanthrene	110	110	A		-0.03	61 - 160		
Phenol	110	88	A		0.54	9 - 210		
Pyrene	71	57.3	A		1.16	21.9 - 92.8		
2,4,5-Trichlorophenol	95	89	A		0.34	39 - 140		
2,4,6-Trichlorophenol	<9.5		A					

NOTE: The spiking solution used to create the MAPEP OrW Standard was prepared by a subcontractor and validated by RESL Chemists.

Criteria based on FoPT Table for NPW - Jan 1, 2008

A = Result acceptable Z-score <=3.0
N = Result not acceptable Z-score > 3.0
NR = Not Reported

Notes:

(1) = False Positive
(2) = False Negative
(10) = Check Isomer

Mixed Analyte Performance Evaluation Program

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

Laboratory Results For MAPEP-08-OrW19
(OTLI01) Outreach Technologies, Inc.
311 N. Aspen
Broken Arrow, OK 74012-

Organic — Units: (ug/L)

Analyte	Result	Ref Value	Flag	Notes	Z-	Acceptance Range	Unc Value	Unc Flag
Aldrin	NR	5.49				1.87 - 9.12		
gamma-BHC (Lindane)	NR	2.86				1.24 - 4.48		
4,4'-DDE	NR	8.00				4.12 - 11.87		
Dieldrin	NR	4.20				2.19 - 6.21		
Endrin	NR	5.18				2.04 - 8.33		
Heptachlor	NR	4.08				1.56 - 6.60		
1,3-Dichlorobenzene	NR	32.7				6.6 - 58.8		
Hexachloroethane	NR	82				13 - 150		
Nitrobenzene	NR	140				57 - 222		
1,2,4-Trichlorobenzene	NR	35.6				9.4 - 61.7		
Acenaphthylene	NR	39.2				18.6 - 59.8		
Benzo(a)anthracene	NR	109				58 - 161		
Benzo(a)pyrene	NR	76.6				29.1 - 124.0		
Benzo(k)fluoranthene	NR	48.4				13.5 - 83.3		
bis(2-chloroisopropyl)ether	NR	112				37 - 187		
2-Chloronaphthalene	NR	44.5				17.5 - 71.5		
2-Chlorophenol	NR	149				54 - 244		
Chrysene	NR	59.0				27.5 - 90.4		
Di-n-butylphthalate	NR	63.3				25.3 - 101.3		
Diethylphthalate	NR	69.6				15.7 - 123.5		
2,4-Dinitrotoluene	NR	96				45 - 148		
2,6-Dinitrotoluene	NR	53.3				25.9 - 80.7		
Di-n-octylphthalate	NR	50.6				16.2 - 85.1		
Fluorene	NR	35.8				16.4 - 55.2		
2-Methylnaphthalene	NR	94				29 - 159		
4-Nitrophenol	NR	93				9 - 225		
Pentachlorophenol	NR	100				32 - 169		
Phenanthrene	NR	110				61 - 160		
Phenol	NR	88				9 - 210		
Pyrene	NR	57.3				21.9 - 92.8		
2,4,5-Trichlorophenol	NR	89				39 - 140		

NOTE: The spiking solution used to create the MAPEP OrW Standard was prepared by a subcontractor and validated by RESL Chemists.

Criteria based on FoPT Table for NPW - Jan 1, 2008

A = Result acceptable Z-score <=3.0
N = Result not acceptable Z-score > 3.0
NR = Not Reported

Notes:

(1) = False Positive
(2) = False Negative
(10) = Check Isomer

Mixed Analyte Performance Evaluation Program

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

Laboratory Results For MAPEP-08-OrW19
(QUAN01) TestAmerica St. Louis
13715 Rider Trail North
Earth City, MO 63045-

Organic — Units: (ug/L)

Analyte	Result	Ref Value	Flag	Notes	Z-	Acceptance Range	Unc Value	Unc Flag
Aldrin	5.72	5.49	A		0.19	1.87 - 9.12		
delta-BHC	< 0.05		A					
alpha-BHC	< 0.05		A					
beta-BHC	< 0.05		A					
gamma-BHC (Lindane)	4.71	2.86	N		3.43	1.24 - 4.48		
4,4'-DDD	< 0.05		A					
4,4'-DDE	7.58	8.00	A		-0.32	4.12 - 11.87		
4,4'-DDT	< 0.05		A					
Dieldrin	4.68	4.20	A		0.72	2.19 - 6.21		
Endosulfan I	< 0.05		A					
Endosulfan II	< 0.05		A					
Endosulfan sulfate	< 0.05		A					
Endrin Aldehyde	< 0.05		A					
Endrin	5.47	5.18	A		0.28	2.04 - 8.33		
Heptachlor	4.15	4.08	A		0.08	1.56 - 6.60		
Heptachlor epoxide	< 0.05		A					
Methoxychlor	< 0.10		A					
1,2-Dichlorobenzene	< 20.0		A					
1,3-Dichlorobenzene	19.1	32.7	A		-1.56	6.6 - 58.8		
1,4-Dichlorobenzene	< 20.0		A					
Hexachlorobutadiene	< 20.0		A					
Hexachloroethane	47.5	82	A		-1.50	13 - 150		
Naphthalene	< 20.0		A					
Nitrobenzene	117	140	A		-0.82	57 - 222		
1,2,4-Trichlorobenzene	21.7	35.6	A		-1.59	9.4 - 61.7		
Acenaphthene	< 20.0		A					
Acenaphthylene	29.4	39.2	A		-1.43	18.6 - 59.8		
Anthracene	< 20.0		A					
Benzo(a)anthracene	70.9	109	A		-2.25	58 - 161		
Benzo(a)pyrene	63.7	76.6	A		-0.81	29.1 - 124.0		
Benzo(b)fluoranthene	< 20.0		A					
Benzo(g,h,i)perylene	< 20.0		A					
Benzo(k)fluoranthene	33.9	48.4	A		-1.25	13.5 - 83.3		
4-Bromophenyl-phenylether	< 20.0		A					
Butylbenzylphthalate	< 20.0		A					
4-Chloro-3-methylphenol	< 20.0		A					

Organic								Units: (ug/L)
Analyte	Result	Ref Value	Flag	Notes	Z-	Acceptance Range	Unc Value	Unc Flag
bis(2-chloroethoxy)methane	< 20.0		A					
bis(2-chloroethyl)ether	< 20.0		A					
bis(2-chloroisopropyl)ether	97.0	112	A		-0.60	37 - 187		
2-Chloronaphthalene	31.0	44.5	A		-1.50	17.5 - 71.5		
2-Chlorophenol	126	149	A		-0.74	54 - 244		
4-Chlorophenyl-phenylether	< 20.0		A					
Chrysene	46.5	59.0	A		-1.19	27.5 - 90.4		
Dibenzo(a,h)anthracene	< 20.0		A					
Dibenzofuran	< 20.0		A					
Di-n-butylphthalate	51.4	63.3	A		-0.94	25.3 - 101.3		
2,4-Dichlorophenol	< 20.0		A					
2,6-Dichlorophenol	< 20.0		A					
Diethylphthalate	60.4	69.6	A		-0.51	15.7 - 123.5		
2,4-Dimethylphenol	< 20.0		A					
Dimethylphthalate	< 20.0		A					
2,4-Dinitrophenol	< 100		A					
2,4-Dinitrotoluene	82.4	96	A		-0.81	45 - 148		
2,6-Dinitrotoluene	42.3	53.3	A		-1.20	25.9 - 80.7		
Di-n-octylphthalate	37.7	50.6	A		-1.13	16.2 - 85.1		
Bis(2-ethylhexyl)phthalate	< 20.0		A					
Fluoranthene	< 20.0		A					
Fluorene	25.3	35.8	A		-1.62	16.4 - 55.2		
Hexachlorobenzene	< 20.0		A					
Hexachlorocyclopentadiene	< 100		A					
Indeno(1,2,3-c,d)pyrene	< 20.0		A					
Isophorone	< 20.0		A					
4,6-Dinitro-2-methylphenol	< 100		A					
2-Methylnaphthalene	73.5	94	A		-0.94	29 - 159		
4-Nitrophenol	72.1	93	A		-0.47	9 - 225		
2-Methylphenol	< 20.0		A					
3-Methyl & 4-Methylphenol	< 20.0		A					
2-Nitrophenol	< 20.0		A					
Pentachlorophenol	58.7	100	A		-1.84	32 - 169		
Phenanthrene	83.4	110	A		-1.65	61 - 160		
Phenol	61.7	88	A		-0.65	9 - 210		
Pyrene	37.5	57.3	A		-1.68	21.9 - 92.8		
2,4,5-Trichlorophenol	69.7	89	A		-1.17	39 - 140		
2,4,6-Trichlorophenol	< 20.0		A					

NOTE: The spiking solution used to create the MAPEP OrW Standard was prepared by a subcontractor and validated by RESL Chemists.

Criteria based on FoPT Table for NPW - Jan 1, 2008

A = Result acceptable Z-score <=3.0
N = Result not acceptable Z-score > 3.0
NR = Not Reported

Notes:

(1) = False Positive
(2) = False Negative
(10) = Check Isomer

Mixed Analyte Performance Evaluation Program

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

Laboratory Results For MAPEP-08-OrW19
(QUAN02) TestAmerica Knoxville
5815 Middlebrook Pike
Knoxville, TN 37921-

Organic — Units: (ug/L)

Analyte	Result	Ref Value	Flag	Notes	Z-	Acceptance Range	Unc Value	Unc Flag
Aldrin	NR	5.49				1.87 - 9.12		
gamma-BHC (Lindane)	NR	2.86				1.24 - 4.48		
4,4'-DDE	NR	8.00				4.12 - 11.87		
Dieldrin	NR	4.20				2.19 - 6.21		
Endrin	NR	5.18				2.04 - 8.33		
Heptachlor	NR	4.08				1.56 - 6.60		
1,2-Dichlorobenzene	<10.0		A					
1,3-Dichlorobenzene	33.7	32.7	A		0.12	6.6 - 58.8		
1,4-Dichlorobenzene	<10.0		A					
Hexachlorobutadiene	<10.0		A					
Hexachloroethane	85.9	82	A		0.19	13 - 150		
Naphthalene	<10.0		A					
Nitrobenzene	144	140	A		0.16	57 - 222		
1,2,4-Trichlorobenzene	34.1	35.6	A		-0.17	9.4 - 61.7		
Acenaphthene	<10.0		A					
Acenaphthylene	39.1	39.2	A		-0.02	18.6 - 59.8		
Anthracene	<10.0		A					
Benzo(a)anthracene	110	109	A		0.04	58 - 161		
Benzo(a)pyrene	79.9	76.6	A		0.21	29.1 - 124.0		
Benzo(b)fluoranthene	<10.0		A					
Benzo(g,h,i)perylene	<10.0		A					
Benzo(k)fluoranthene	39.0	48.4	A		-0.81	13.5 - 83.3		
Butylbenzylphthalate	<10.0		A					
4-Chloro-3-methylphenol	<10.0		A					
bis(2-chloroisopropyl)ether	NR	112				37 - 187		
2-Chloronaphthalene	42.6	44.5	A		-0.21	17.5 - 71.5		
2-Chlorophenol	141	149	A		-0.26	54 - 244		
Chrysene	60.2	59.0	A		0.12	27.5 - 90.4		
Dibenzo(a,h)anthracene	<10.0		A					
Dibenzofuran	<10.0		A					
Di-n-butylphthalate	61.9	63.3	A		-0.11	25.3 - 101.3		
2,4-Dichlorophenol	<10.0		A					
Diethylphthalate	74.8	69.6	A		0.29	15.7 - 123.5		
2,4-Dimethylphenol	<10.0		A					
Dimethylphthalate	<10.0		A					
2,4-Dinitrophenol	<50.0		A					

Organic								Units: (ug/L)
Analyte	Result	Ref Value	Flag	Notes	Z-	Acceptance Range	Unc Value	Unc Flag
2,4-Dinitrotoluene	92.1	96	A		-0.24	45 - 148		
2,6-Dinitrotoluene	48.2	53.3	A		-0.56	25.9 - 80.7		
Di-n-octylphthalate	41.9	50.6	A		-0.76	16.2 - 85.1		
Bis(2-ethylhexyl)phthalate	<10.0		A					
Fluoranthene	<10.0		A					
Fluorene	34.2	35.8	A		-0.25	16.4 - 55.2		
Hexachlorobenzene	<10.0		A					
Hexachlorocyclopentadiene	<50.0		A					
Indeno(1,2,3-c,d)pyrene	<10.0		A					
Isophorone	<10.0		A					
4,6-Dinitro-2-methylphenol	<50.0		A					
2-Methylnaphthalene	102	94	A		0.38	29 - 159		
2-Methylphenol	<10.0		A					
4-Nitrophenol	166	93	A		1.66	9 - 225		
3-Methyl & 4-Methylphenol	<10.0		A					
2-Nitrophenol	<10.0		A					
Pentachlorophenol	92.1	100	A		-0.37	32 - 169		
Phenanthrene	98.4	110	A		-0.73	61 - 160		
Phenol	114	88	A		0.64	9 - 210		
Pyrene	56.4	57.3	A		-0.08	21.9 - 92.8		
2,4,5-Trichlorophenol	82.7	89	A		-0.39	39 - 140		
2,4,6-Trichlorophenol	<10.0		A					

NOTE: The spiking solution used to create the MAPEP OrW Standard was prepared by a subcontractor and validated by RESL Chemists.

Criteria based on FoPT Table for NPW - Jan 1, 2008

A = Result acceptable Z-score <=3.0
N = Result not acceptable Z-score > 3.0
NR = Not Reported

Notes:

(1) = False Positive
(2) = False Negative
(10) = Check Isomer

Mixed Analyte Performance Evaluation Program

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

Laboratory Results For MAPEP-08-OrW19
(SALC01) TestAmerica-Morgan Hill
885 Jarvis Drive
Morgan Hill, CA 95037

Organic — Units: (ug/L)

Analyte	Result	Ref Value	Flag	Notes	Z-	Acceptance Range	Unc Value	Unc Flag
Aldrin	NR	5.49				1.87 - 9.12		
gamma-BHC (Lindane)	NR	2.86				1.24 - 4.48		
4,4'-DDE	NR	8.00				4.12 - 11.87		
Dieldrin	NR	4.20				2.19 - 6.21		
Endrin	NR	5.18				2.04 - 8.33		
Heptachlor	NR	4.08				1.56 - 6.60		
1,2-Dichlorobenzene	<10		A					
1,3-Dichlorobenzene	33.1	32.7	A		0.05	6.6 - 58.8		
1,4-Dichlorobenzene	<10		A					
Hexachlorobutadiene	<10		A					
Hexachloroethane	94.0	82	A		0.54	13 - 150		
Naphthalene	<5		A					
Nitrobenzene	141	140	A		0.05	57 - 222		
1,2,4-Trichlorobenzene	35.0	35.6	A		-0.07	9.4 - 61.7		
Acenaphthene	<5		A					
Acenaphthylene	47.4	39.2	A		1.19	18.6 - 59.8		
Anthracene	<5		A					
Benzo(a)anthracene	115	109	A		0.33	58 - 161		
Benzo(a)pyrene	93.9	76.6	A		1.10	29.1 - 124.0		
Benzo(b)fluoranthene	<5		A					
Benzo(g,h,i)perylene	<10		A					
Benzo(k)fluoranthene	43.5	48.4	A		-0.42	13.5 - 83.3		
4-Bromophenyl-phenylether	<5		A					
Butylbenzylphthalate	<5		A					
4-Chloro-3-methylphenol	<5		A					
bis(2-chloroethoxy)methane	<5		A					
bis(2-chloroethyl)ether	<10		A					
bis(2-chloroisopropyl)ether	118	112	A		0.25	37 - 187		
2-Chloronaphthalene	48.3	44.5	A		0.42	17.5 - 71.5		
2-Chlorophenol	148	149	A		-0.04	54 - 244		
4-Chlorophenyl-phenylether	<10		A					
Chrysene	60.2	59.0	A		0.12	27.5 - 90.4		
Dibenzo(a,h)anthracene	<5		A					
Dibenzofuran	<5		A					
Di-n-butylphthalate	65.7	63.3	A		0.19	25.3 - 101.3		
2,4-Dichlorophenol	<5		A					

Organic								Units: (ug/L)
Analyte	Result	Ref Value	Flag	Notes	Z-	Acceptance Range	Unc Value	Unc Flag
2,6-Dichlorophenol	<10		A					
Diethylphthalate	71.5	69.6	A		0.11	15.7 - 123.5		
2,4-Dimethylphenol	<10		A					
Dimethylphthalate	<5		A					
2,4-Dinitrophenol	<10		A					
2,4-Dinitrotoluene	82.3	96	A		-0.82	45 - 148		
2,6-Dinitrotoluene	42.7	53.3	A		-1.16	25.9 - 80.7		
Di-n-octylphthalate	46.2	50.6	A		-0.39	16.2 - 85.1		
Bis(2-ethylhexyl)phthalate	<10		A					
Fluoranthene	<5		A					
Fluorene	33.2	35.8	A		-0.40	16.4 - 55.2		
Hexachlorobenzene	<5		A					
Hexachlorocyclopentadiene	<10		A					
Indeno(1,2,3-c,d)pyrene	<10		A					
Isophorone	<5		A					
4,6-Dinitro-2-methylphenol	<5		A					
2-Methylnaphthalene	112	94	A		0.84	29 - 159		
2-Methylphenol	<5		A					
4-Nitrophenol	47.0	93	A		-1.04	9 - 225		
3-Methyl & 4-Methylphenol	<5		A					
2-Nitrophenol	<5		A					
Pentachlorophenol	83.2	100	A		-0.76	32 - 169		
Phenanthrene	99.8	110	A		-0.65	61 - 160		
Phenol	47.9	88	A		-0.99	9 - 210		
Pyrene	<5	57.3	N	(2)		21.9 - 92.8		
2,4,5-Trichlorophenol	80.6	89	A		-0.52	39 - 140		
2,4,6-Trichlorophenol	<5		A					

NOTE: The spiking solution used to create the MAPEP OrW Standard was prepared by a subcontractor and validated by RESL Chemists.

Criteria based on FoPT Table for NPW - Jan 1, 2008

A = Result acceptable Z-score <=3.0
N = Result not acceptable Z-score > 3.0
NR = Not Reported

Notes:

(1) = False Positive
(2) = False Negative
(10) = Check Isomer

Mixed Analyte Performance Evaluation Program

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

Laboratory Results For MAPEP-08-OrW19
(SOUT01) Southwest Research Institute
6220 Culebra Rd.
San Antonio, TX 78228-0510

Organic — Units: (ug/L)

Analyte	Result	Ref Value	Flag	Notes	Z-	Acceptance Range	Unc Value	Unc Flag
Aldrin	NR	5.49				1.87 - 9.12		
gamma-BHC (Lindane)	NR	2.86				1.24 - 4.48		
4,4'-DDE	NR	8.00				4.12 - 11.87		
Dieldrin	NR	4.20				2.19 - 6.21		
Endrin	NR	5.18				2.04 - 8.33		
Heptachlor	NR	4.08				1.56 - 6.60		
1,2-Dichlorobenzene	<5.00		A					
1,3-Dichlorobenzene	33.7	32.7	A		0.12	6.6 - 58.8		
1,4-Dichlorobenzene	<5.00		A					
Hexachlorobutadiene	<5.00		A					
Hexachloroethane	88.9	82	A		0.32	13 - 150		
Naphthalene	<5.00		A					
Nitrobenzene	174	140	A		1.25	57 - 222		
1,2,4-Trichlorobenzene	35.9	35.6	A		0.04	9.4 - 61.7		
Acenaphthene	<5.00		A					
Acenaphthylene	41.7	39.2	A		0.36	18.6 - 59.8		
Anthracene	<5.00		A					
Benzo(a)anthracene	124	109	A		0.86	58 - 161		
Benzo(a)pyrene	97.3	76.6	A		1.31	29.1 - 124.0		
Benzo(b)fluoranthene	<5.00		A					
Benzo(g,h,i)perylene	<5.00		A					
Benzo(k)fluoranthene	50.9	48.4	A		0.22	13.5 - 83.3		
4-Bromophenyl-phenylether	<5.00		A					
Butylbenzylphthalate	<5.00		A					
4-Chloro-3-methylphenol	<5.00		A					
bis(2-chloroethoxy)methane	<5.00		A					
bis(2-chloroethyl)ether	<5.00		A					
bis(2-chloroisopropyl)ether	135	112	A		0.93	37 - 187		
2-Chloronaphthalene	38.4	44.5	A		-0.68	17.5 - 71.5		
2-Chlorophenol	173	149	A		0.75	54 - 244		
4-Chlorophenyl-phenylether	<5.00		A					
Chrysene	60.7	59.0	A		0.16	27.5 - 90.4		
Dibenzo(a,h)anthracene	<5.00		A					
Dibenzofuran	<5.00		A					
Di-n-butylphthalate	69.1	63.3	A		0.46	25.3 - 101.3		
2,4-Dichlorophenol	<5.00		A					

Organic								Units: (ug/L)
Analyte	Result	Ref Value	Flag	Notes	Z-	Acceptance Range	Unc Value	Unc Flag
Diethylphthalate	89.4	69.6	A		1.10	15.7 - 123.5		
2,4-Dimethylphenol	<5.00		A					
Dimethylphthalate	<5.00		A					
2,4-Dinitrophenol	<5.00		A					
2,4-Dinitrotoluene	122	96	A		1.50	45 - 148		
2,6-Dinitrotoluene	55.8	53.3	A		0.27	25.9 - 80.7		
Di-n-octylphthalate	51.4	50.6	A		0.07	16.2 - 85.1		
Bis(2-ethylhexyl)phthalate	<5.00		A					
Fluoranthene	<5.00		A					
Fluorene	36.4	35.8	A		0.10	16.4 - 55.2		
Hexachlorobenzene	<5.00		A					
Hexachlorocyclopentadiene	<5.00		A					
Indeno(1,2,3-c,d)pyrene	<5.00		A					
Isophorone	<5.00		A					
4,6-Dinitro-2-methylphenol	<5.00		A					
2-Methylnaphthalene	128	94	A		1.58	29 - 159		
2-Methylphenol	<5.00		A					
4-Nitrophenol	115	93	A		0.50	9 - 225		
3-Methyl & 4-Methylphenol	<5.00		A					
2-Nitrophenol	<5.00		A					
Pentachlorophenol	123	100	A		0.99	32 - 169		
Phenanthrene	131	110	A		1.25	61 - 160		
Phenol	88.8	88	A		0.02	9 - 210		
Pyrene	58.3	57.3	A		0.08	21.9 - 92.8		
2,4,5-Trichlorophenol	107	89	A		1.05	39 - 140		
2,4,6-Trichlorophenol	<5.00		A					

NOTE: The spiking solution used to create the MAPEP OrW Standard was prepared by a subcontractor and validated by RESL Chemists.

Criteria based on FoPT Table for NPW - Jan 1, 2008

A = Result acceptable Z-score <=3.0
N = Result not acceptable Z-score > 3.0
NR = Not Reported

Notes:

(1) = False Positive
(2) = False Negative
(10) = Check Isomer

Mixed Analyte Performance Evaluation Program

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

Laboratory Results For MAPEP-08-OrW19
(WEST01) Lionville Laboratory
208 Welsh Pool Road
Exton, PA 19341-1313

Organic — Units: (ug/L)

Analyte	Result	Ref Value	Flag	Notes	Z-	Acceptance Range	Unc Value	Unc Flag
Aldrin	NR	5.49				1.87 - 9.12		
gamma-BHC (Lindane)	NR	2.86				1.24 - 4.48		
4,4'-DDE	NR	8.00				4.12 - 11.87		
Dieldrin	NR	4.20				2.19 - 6.21		
Endrin	NR	5.18				2.04 - 8.33		
Heptachlor	NR	4.08				1.56 - 6.60		
1,2-Dichlorobenzene	<10		A					
1,3-Dichlorobenzene	39	32.7	A		0.73	6.6 - 58.8		
1,4-Dichlorobenzene	<10		A					
Hexachlorobutadiene	<10		A					
Hexachloroethane	100	82	A		0.81	13 - 150		
Naphthalene	<10		A					
Nitrobenzene	170	140	A		1.10	57 - 222		
1,2,4-Trichlorobenzene	41	35.6	A		0.62	9.4 - 61.7		
Acenaphthene	<10		A					
Acenaphthylene	48	39.2	A		1.28	18.6 - 59.8		
Anthracene	<10		A					
Benzo(a)anthracene	140	109	A		1.80	58 - 161		
Benzo(a)pyrene	110	76.6	A		2.12	29.1 - 124.0		
Benzo(b)fluoranthene	<10		A					
Benzo(g,h,i)perylene	<10		A					
Benzo(k)fluoranthene	60	48.4	A		1.00	13.5 - 83.3		
4-Bromophenyl-phenylether	10		N	(1)				
Butylbenzylphthalate	<10		A					
4-Chloro-3-methylphenol	<10		A					
bis(2-chloroethoxy)methane	<10		A					
bis(2-chloroethyl)ether	<10		A					
bis(2-chloroisopropyl)ether	110	112	A		-0.08	37 - 187		
2-Chloronaphthalene	56	44.5	A		1.28	17.5 - 71.5		
2-Chlorophenol	170	149	A		0.66	54 - 244		
4-Chlorophenyl-phenylether	<10		A					
Chrysene	76	59.0	A		1.62	27.5 - 90.4		
Dibenzo(a,h)anthracene	<10		A					
Dibenzofuran	<10		A					
Di-n-butylphthalate	73	63.3	A		0.77	25.3 - 101.3		
2,4-Dichlorophenol	<10		A					

Organic								Units: (ug/L)
Analyte	Result	Ref Value	Flag	Notes	Z-	Acceptance Range	Unc Value	Unc Flag
2,6-Dichlorophenol	<10		A					
Diethylphthalate	91	69.6	A		1.19	15.7 - 123.5		
2,4-Dimethylphenol	<10		A					
Dimethylphthalate	<10		A					
2,4-Dinitrophenol	<50		A					
2,4-Dinitrotoluene	110	96	A		0.80	45 - 148		
2,6-Dinitrotoluene	59	53.3	A		0.62	25.9 - 80.7		
Di-n-octylphthalate	55	50.6	A		0.38	16.2 - 85.1		
Bis(2-ethylhexyl)phthalate	2		W	(1)				
Fluoranthene	<10		A					
Fluorene	42	35.8	A		0.96	16.4 - 55.2		
Hexachlorobenzene	<10		A					
Hexachlorocyclopentadiene	<10		A					
Indeno(1,2,3-c,d)pyrene	<10		A					
Isophorone	<10		A					
4,6-Dinitro-2-methylphenol	<25		A					
2-Methylnaphthalene	130	94	A		1.67	29 - 159		
4-Nitrophenol	120	93	A		0.61	9 - 225		
2-Methylphenol	<10		A					
3-Methyl & 4-Methylphenol	<10		A					
2-Nitrophenol	<10		A					
Pentachlorophenol	44	100	A		-2.48	32 - 169		
Phenanthrene	160	110	N		3.02	61 - 160		
Phenol	140	88	A		1.28	9 - 210		
Pyrene	74	57.3	A		1.41	21.9 - 92.8		
2,4,5-Trichlorophenol	100	89	A		0.64	39 - 140		
2,4,6-Trichlorophenol	<10		A					

NOTE: The spiking solution used to create the MAPEP OrW Standard was prepared by a subcontractor and validated by RESL Chemists.

Criteria based on FoPT Table for NPW - Jan 1, 2008

A = Result acceptable Z-score <=3.0
N = Result not acceptable Z-score > 3.0
NR = Not Reported

Notes:

(1) = False Positive
(2) = False Negative
(10) = Check Isomer

Mixed Analyte Performance Evaluation Program

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

Laboratory Results For MAPEP-08-OrW19
(WEST03) Waste Sampling and Characterization Facility
PO Box 1000, S3-30
Richland, WA 99352

Organic — Units: (ug/L)

Analyte	Result	Ref Value	Flag	Notes	Z-	Acceptance Range	Unc Value	Unc Flag
Aldrin	NR	5.49				1.87 - 9.12		
gamma-BHC (Lindane)	NR	2.86				1.24 - 4.48		
4,4'-DDE	NR	8.00				4.12 - 11.87		
Dieldrin	NR	4.20				2.19 - 6.21		
Endrin	NR	5.18				2.04 - 8.33		
Heptachlor	NR	4.08				1.56 - 6.60		
1,2-Dichlorobenzene	<1.4		A					
1,3-Dichlorobenzene	39	32.7	A		0.73	6.6 - 58.8		
1,4-Dichlorobenzene	<1.3		A					
Hexachlorobutadiene	<2.0		A					
Hexachloroethane	98	82	A		0.72	13 - 150		
Naphthalene	<2.0		A					
Nitrobenzene	149	140	A		0.34	57 - 222		
1,2,4-Trichlorobenzene	41	35.6	A		0.62	9.4 - 61.7		
Acenaphthene	<2.5		A					
Acenaphthylene	45	39.2	A		0.84	18.6 - 59.8		
Anthracene	<0.5		A					
Benzo(a)anthracene	96	109	A		-0.78	58 - 161		
Benzo(a)pyrene	87	76.6	A		0.66	29.1 - 124.0		
Benzo(b)fluoranthene	<0.5		A					
Benzo(g,h,i)perylene	<0.5		A					
Benzo(k)fluoranthene	46	48.4	A		-0.20	13.5 - 83.3		
4-Bromophenyl-phenylether	<1.0		A					
Butylbenzylphthalate	<0.6		A					
4-Chloro-3-methylphenol	<0.5		A					
bis(2-chloroethoxy)methane	<1.0		A					
bis(2-chloroethyl)ether	<1.0		A					
bis(2-chloroisopropyl)ether	121	112	A		0.37	37 - 187		
2-Chloronaphthalene	52	44.5	A		0.83	17.5 - 71.5		
2-Chlorophenol	153	149	A		0.12	54 - 244		
4-Chlorophenyl-phenylether	<1.6		A					
Chrysene	55	59.0	A		-0.38	27.5 - 90.4		
Dibenzo(a,h)anthracene	<0.5		A					
Dibenzofuran	<2.1		A					
Di-n-butylphthalate	68	63.3	A		0.37	25.3 - 101.3		
2,4-Dichlorophenol	<0.5		A					

Organic								Units: (ug/L)
Analyte	Result	Ref Value	Flag	Notes	Z-	Acceptance Range	Unc Value	Unc Flag
2,6-Dichlorophenol	<0.6		A					
Diethylphthalate	78	69.6	A		0.47	15.7 - 123.5		
2,4-Dimethylphenol	<1.0		A					
Dimethylphthalate	<0.5		A					
2,4-Dinitrophenol	<2.0		A					
2,4-Dinitrotoluene	93	96	A		-0.19	45 - 148		
2,6-Dinitrotoluene	54	53.3	A		0.08	25.9 - 80.7		
Di-n-octylphthalate	55	50.6	A		0.38	16.2 - 85.1		
Bis(2-ethylhexyl)phthalate	<0.8		A					
Fluoranthene	<0.5		A					
Fluorene	38	35.8	A		0.34	16.4 - 55.2		
Hexachlorobenzene	<0.5		A					
Hexachlorocyclopentadiene	<5.0		A					
Indeno(1,2,3-c,d)pyrene	<0.5		A					
Isophorone	<0.5		A					
4,6-Dinitro-2-methylphenol	<1.0		A					
2-Methylnaphthalene	116	94	A		1.02	29 - 159		
4-Nitrophenol	122	93	A		0.66	9 - 225		
2-Methylphenol	<0.5		A					
3-Methyl & 4-Methylphenol	<0.5		A					
2-Nitrophenol	<0.5		A					
Pentachlorophenol	112	100	A		0.51	32 - 169		
Phenanthrene	109	110	A		-0.09	61 - 160		
Phenol	127	88	A		0.96	9 - 210		
Pyrene	57	57.3	A		-0.03	21.9 - 92.8		
2,4,5-Trichlorophenol	89	89	A		-0.02	39 - 140		
2,4,6-Trichlorophenol	86		N	(10)				

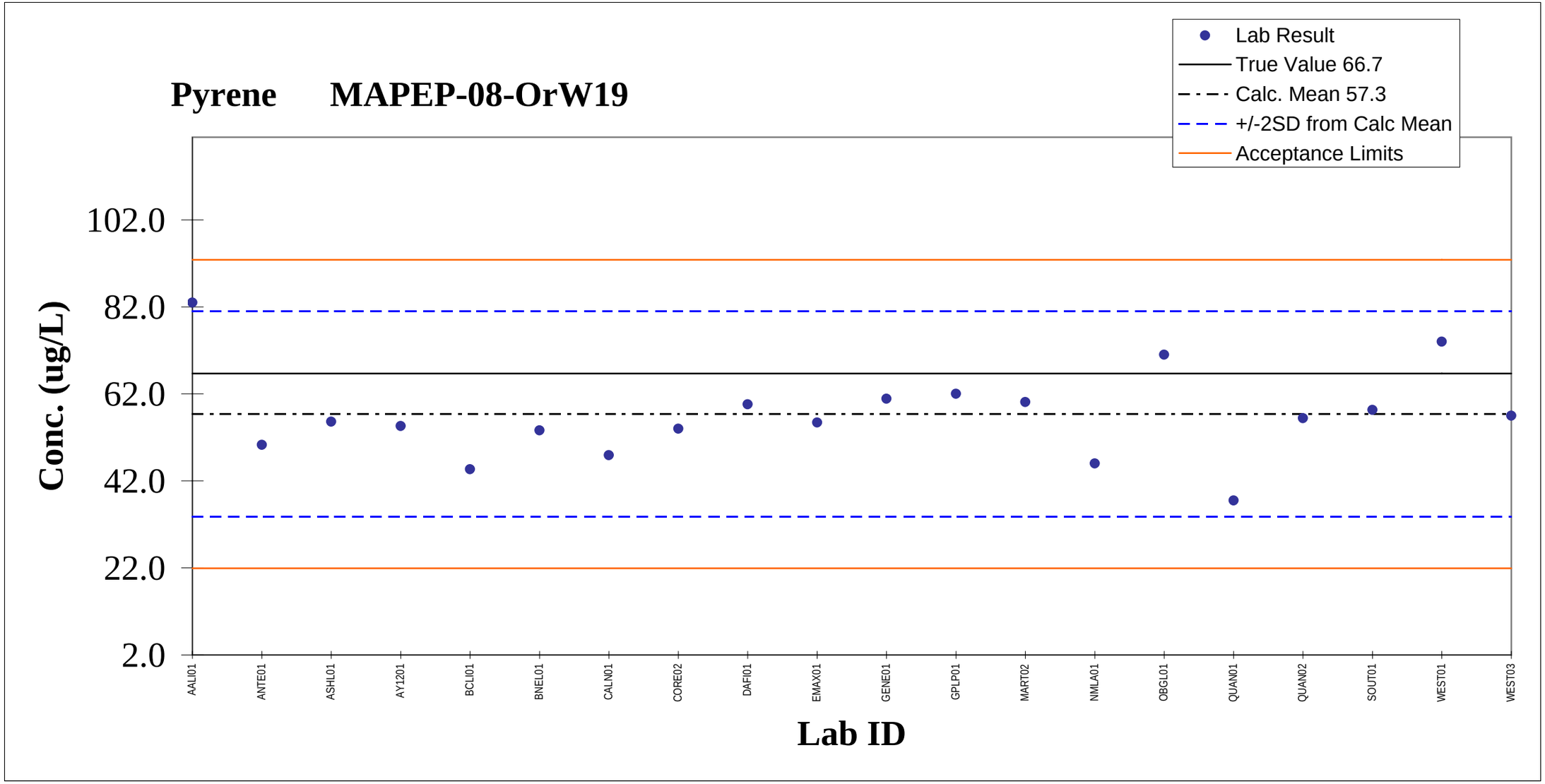
NOTE: The spiking solution used to create the MAPEP OrW Standard was prepared by a subcontractor and validated by RESL Chemists.

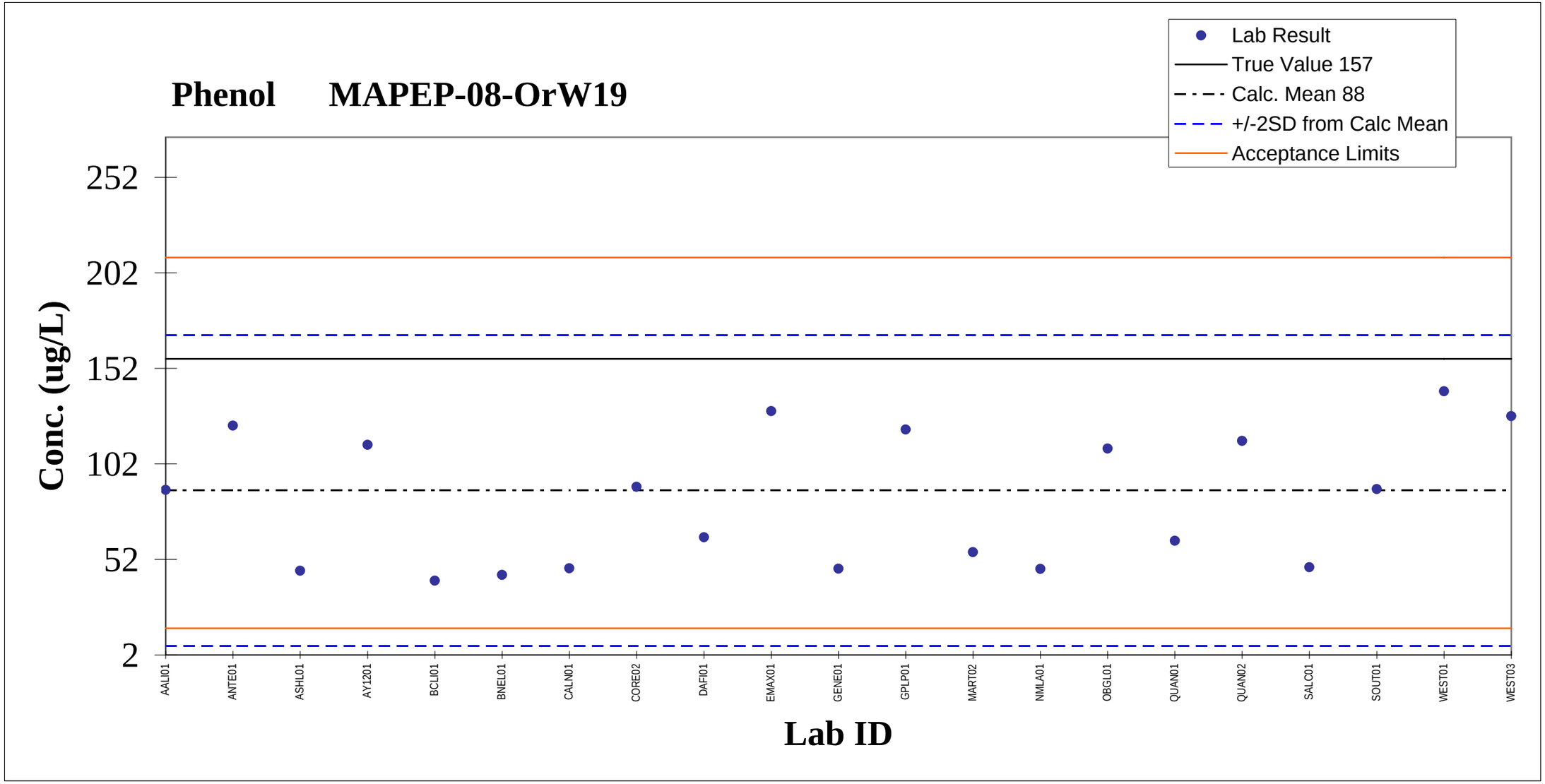
Criteria based on FoPT Table for NPW - Jan 1, 2008

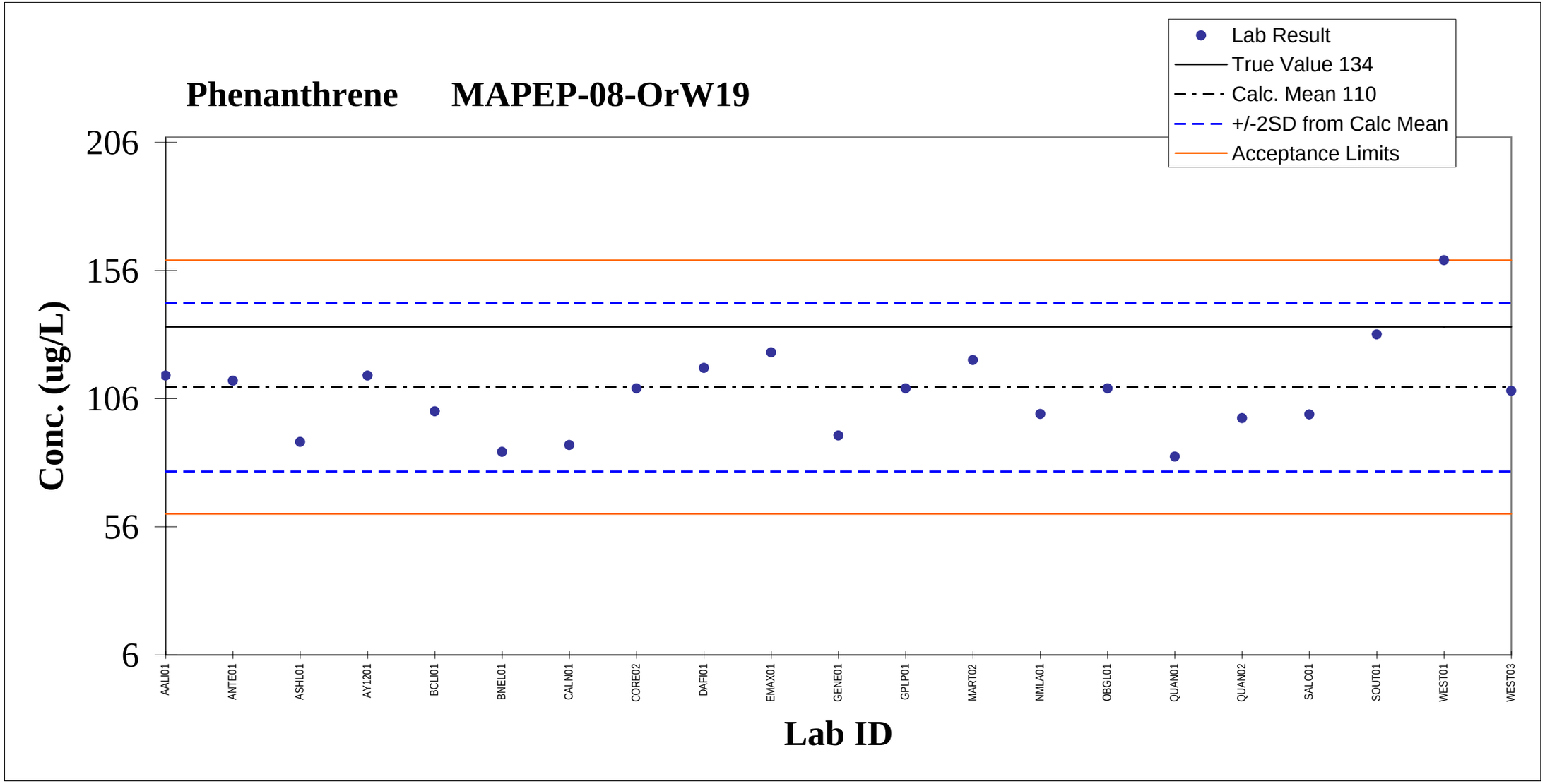
A = Result acceptable Z-score <=3.0
N = Result not acceptable Z-score > 3.0
NR = Not Reported

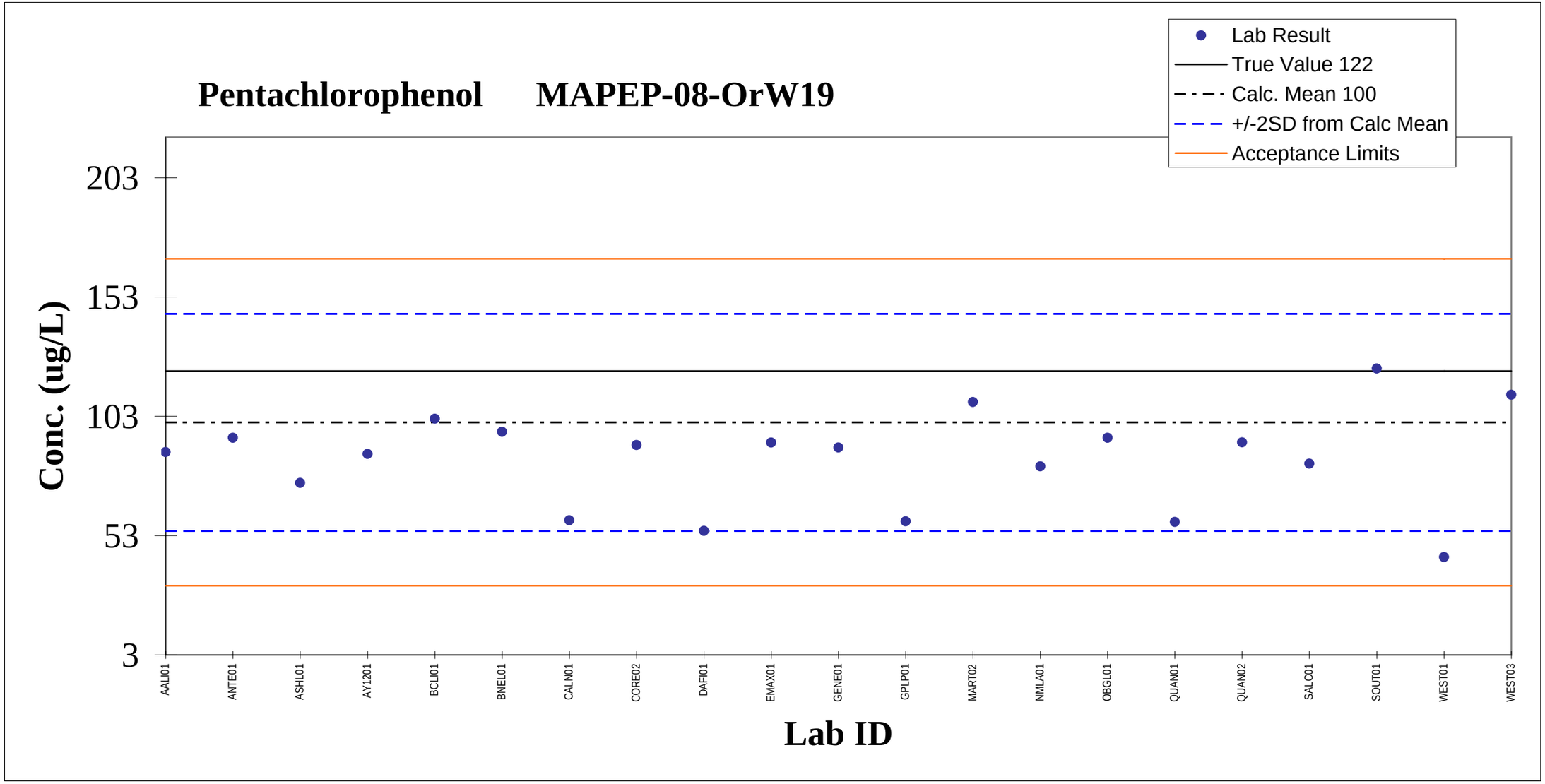
Notes:

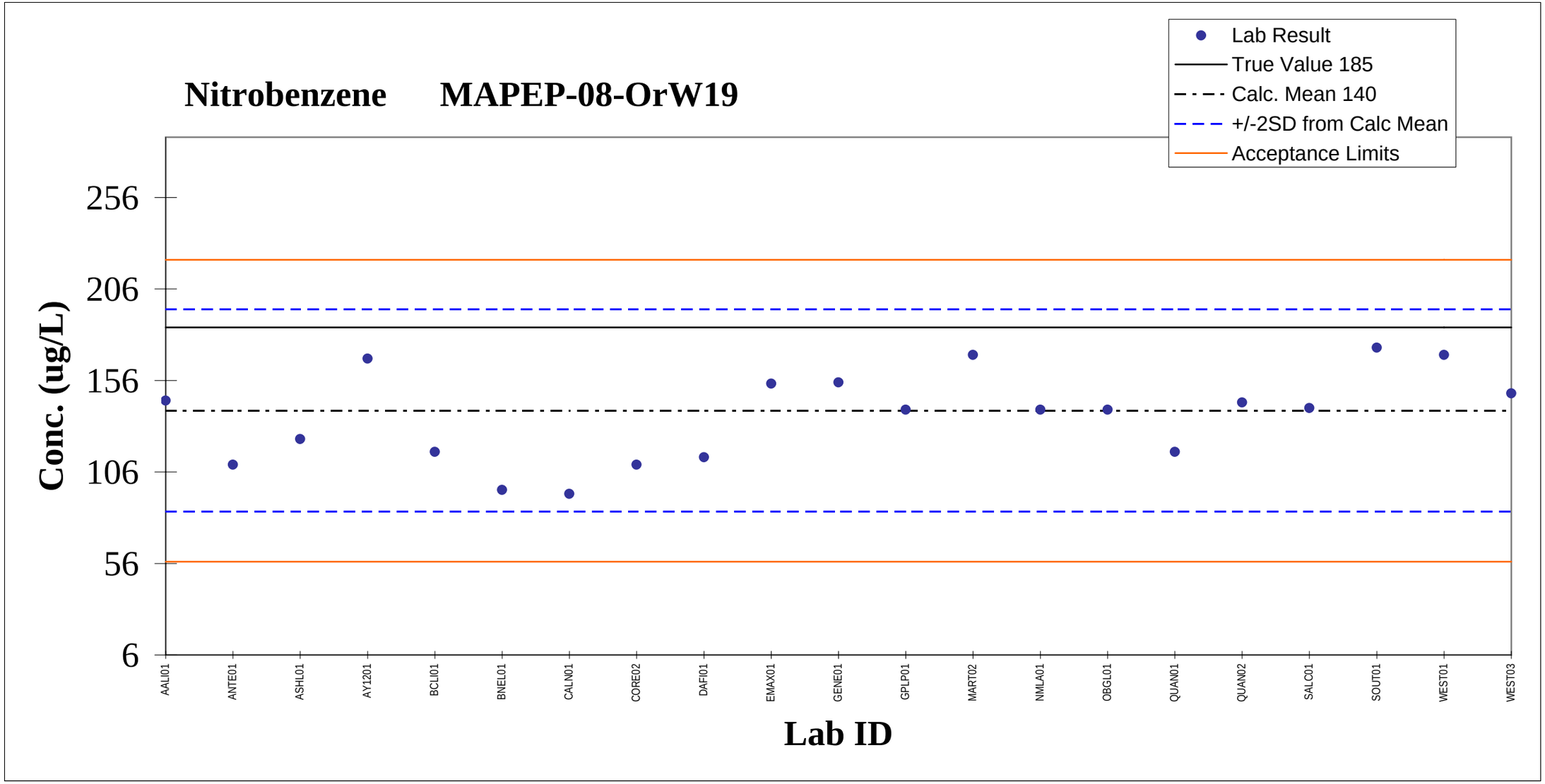
(1) = False Positive
(2) = False Negative
(10) = Check Isomer

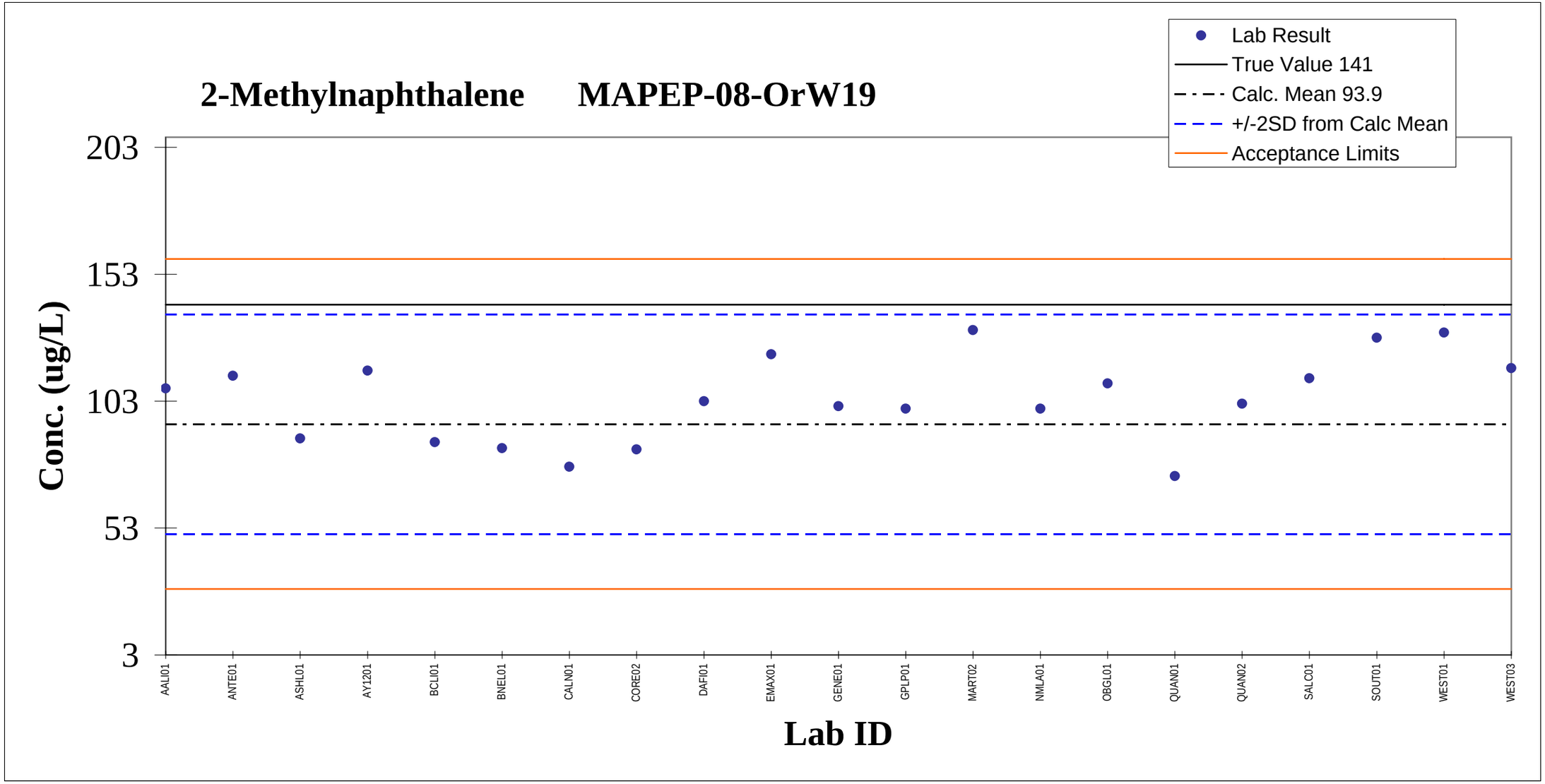

Pyrene MAPEP-08-OrW19
Lab Result
True Value 66.7
Calc. Mean 57.3
+/-2SD from Calc Mean
Acceptance Limits
Conc. (ug/L)
102.0
82.0
62.0
42.0
22.0
2.0
AALI01
ANTE01
ASHL01
AY1201
BCLI01
BNEL01
CALN01
CORE02
DAFI01
EMAX01
GENE01
GPLP01
MART02
NMLA01
OBGL01
QUAN01
QUAN02
SOUT01
WEST01
WEST03
Lab ID

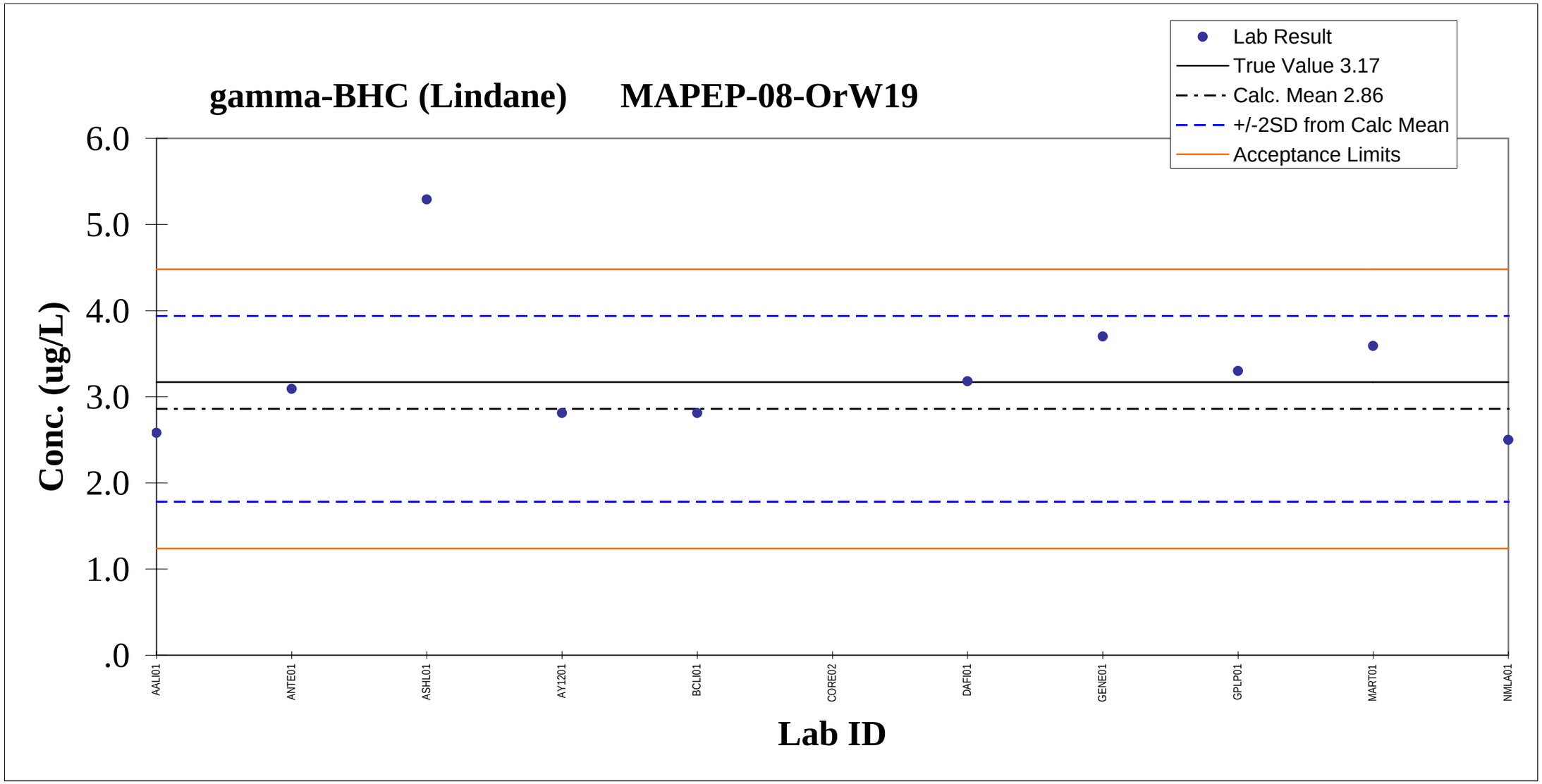

Phenol MAPEP-08-OrW19
Lab Result
True Value 157
Calc. Mean 88
+/-2SD from Calc Mean
Acceptance Limits
Conc. (ug/L)
252
202
152
102
52
2
AALI01
ANTE01
ASHL01
AY1201
BCLI01
BNEL01
CALN01
CORE02
DAFI01
EMAX01
GENE01
GPLP01
MART02
NMLA01
OBGL01
QUAN01
QUAN02
SALC01
SOUT01
WEST01
WEST03
Lab ID

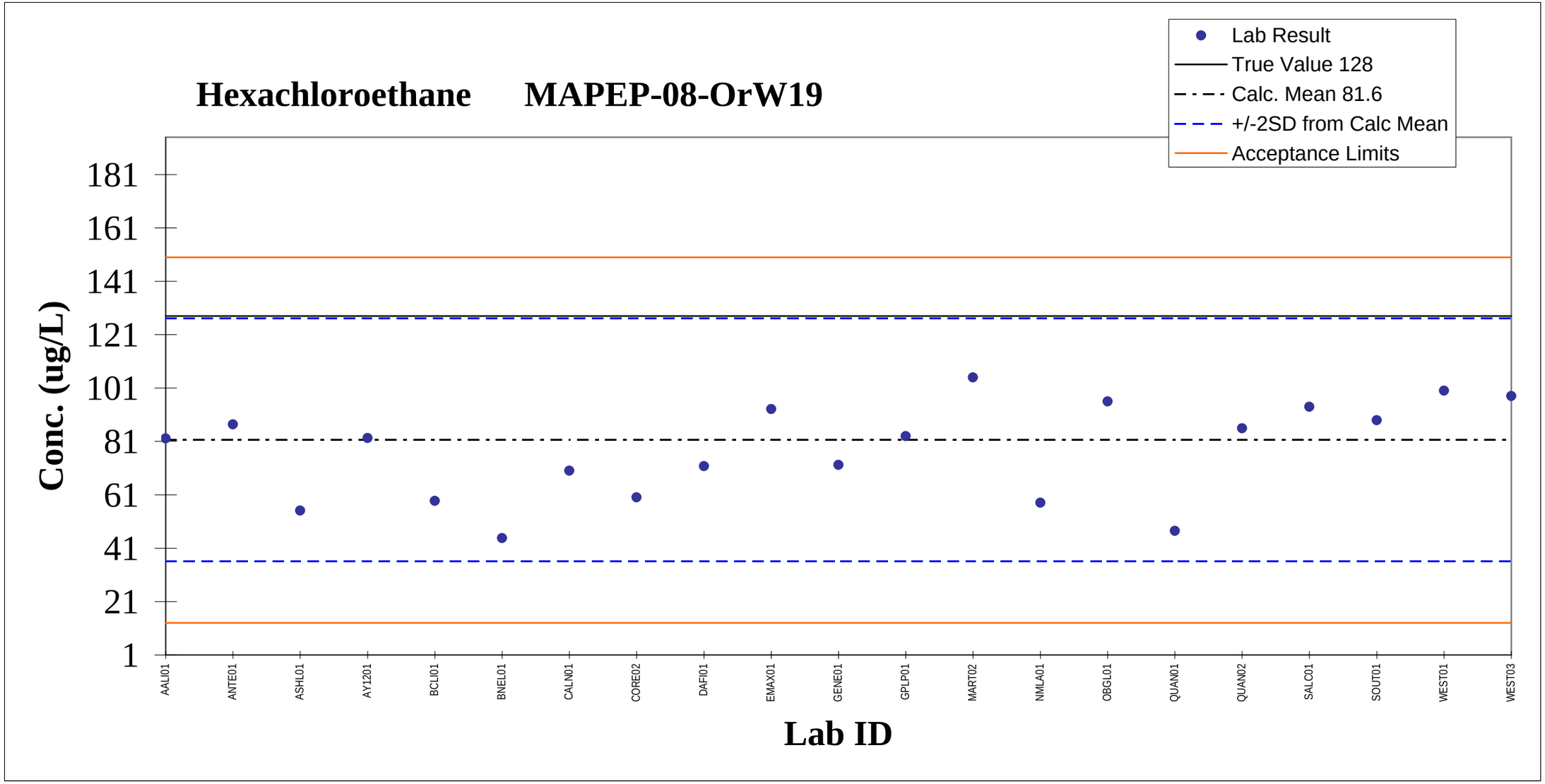

Phenanthrene MAPEP-08-OrW19
Lab Result
True Value 134
Calc. Mean 110
+/-2SD from Calc Mean
Acceptance Limits
206
156
106
56
6
Conc. (ug/L)
AALI01
ANTE01
ASHL01
AY1201
BCLI01
BNEL01
CALN01
CORE02
DAFI01
EMAX01
GENE01
GPLP01
MART02
NMLA01
OBGL01
QUAN01
QUAN02
SALC01
SOUT01
WEST01
WEST03
Lab ID

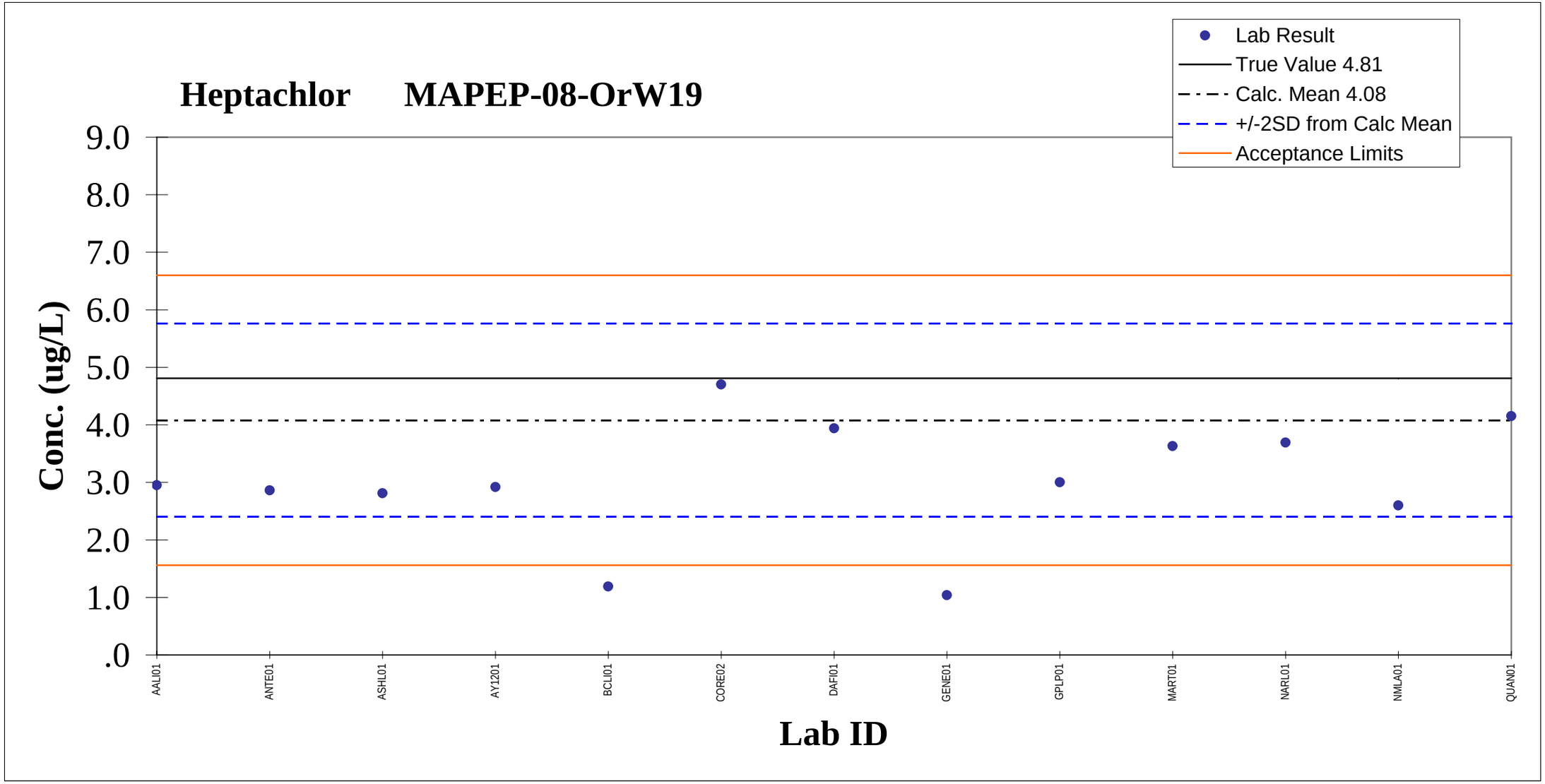

Pentachlorophenol MAPEP-08-OrW19
Lab Result
True Value 122
Calc. Mean 100
+/-2SD from Calc Mean
Acceptance Limits
Conc. (ug/L)
203
153
103
53
3
AALI01
ANTE01
ASHL01
AY1201
BCLI01
BNEL01
CALN01
CORE02
DAFI01
EMAX01
GENE01
GPLP01
MART02
NMLA01
OBGL01
QUAN01
QUAN02
SALC01
SOUT01
WEST01
WEST03
Lab ID

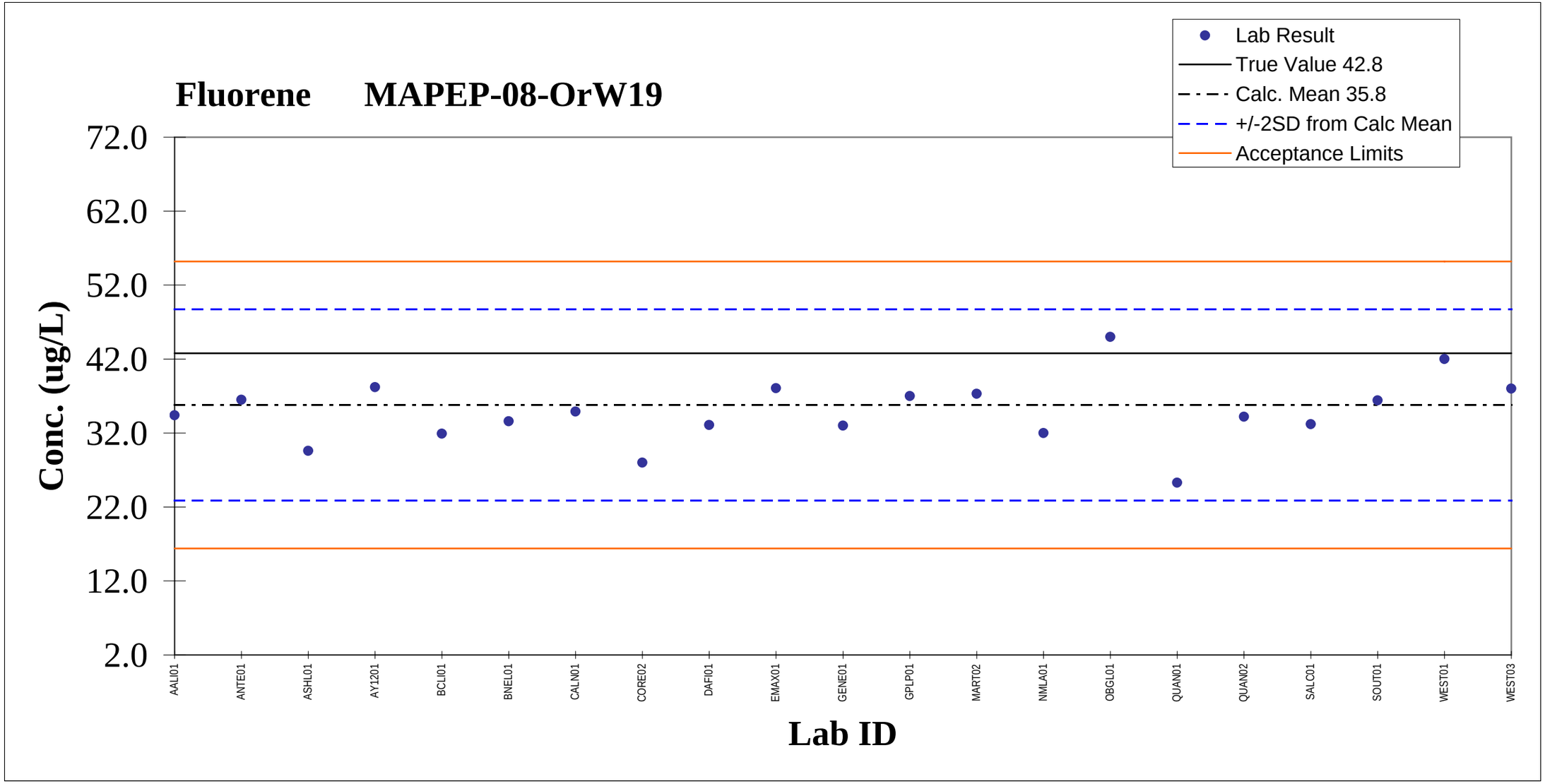

Nitrobenzene MAPEP-08-OrW19
Lab Result
True Value 185
Calc. Mean 140
+/-2SD from Calc Mean
Acceptance Limits
Conc. (ug/L)
256
206
156
106
56
6
AALI01
ANTE01
ASHL01
AY1201
BCLI01
BNEL01
CALN01
CORE02
DAFI01
EMAX01
GENE01
GPLP01
MART02
NMLA01
OBGL01
QUAN01
QUAN02
SALC01
SOUT01
WEST01
WEST03
Lab ID


2-Methylnaphthalene MAPEP-08-OrW19
Lab Result
True Value 141
Calc. Mean 93.9
+/-2SD from Calc Mean
Acceptance Limits
Conc. (ug/L)
203
153
103
53
3
AALI01
ANTE01
ASHL01
AY1201
BCLI01
BNEL01
CALN01
CORE02
DAFI01
EMAX01
GENE01
GPLP01
MART02
NMLA01
OBGL01
QUAN01
QUAN02
SALC01
SOUT01
WEST01
WEST03
Lab ID


gamma-BHC (Lindane) MAPEP-08-OrW19
Lab Result
True Value 3.17
Calc. Mean 2.86
+/-2SD from Calc Mean
Acceptance Limits
Conc. (ug/L)
6.0
5.0
4.0
3.0
2.0
1.0
.0
AALI01
ANTE01
ASHL01
AY1201
BCLI01
CORE02
DAFI01
GENE01
GPLP01
MART01
NMLA01
Lab ID


Hexachloroethane MAPEP-08-OrW19
Lab Result
True Value 128
Calc. Mean 81.6
+/-2SD from Calc Mean
Acceptance Limits
Conc. (ug/L)
181
161
141
121
101
81
61
41
21
1
AALI01
ANTE01
ASHL01
AY1201
BCLI01
BNEL01
CALN01
CORE02
DAFI01
EMAX01
GENE01
GPLP01
MART02
NMLA01
OBGL01
QUAN01
QUAN02
SALC01
SOUT01
WEST01
WEST03
Lab ID


Heptachlor MAPEP-08-OrW19
Lab Result
True Value 4.81
Calc. Mean 4.08
+/-2SD from Calc Mean
Acceptance Limits
Conc. (ug/L)
9.0
8.0
7.0
6.0
5.0
4.0
3.0
2.0
1.0
.0
AALI01
ANTE01
ASHL01
AY1201
BCLI01
CORE02
DAFI01
GENE01
GPLP01
MART01
NARL01
NMLA01
QUAN01
Lab ID


Fluorene MAPEP-08-OrW19
Lab Result
True Value 42.8
Calc. Mean 35.8
+/-2SD from Calc Mean
Acceptance Limits
Conc. (ug/L)
72.0
62.0
52.0
42.0
32.0
22.0
12.0
2.0
AALI01
ANTE01
ASHL01
AY1201
BCLI01
BNEL01
CALN01
CORE02
DAFI01
EMAX01
GENE01
GPLP01
MART02
NMLA01
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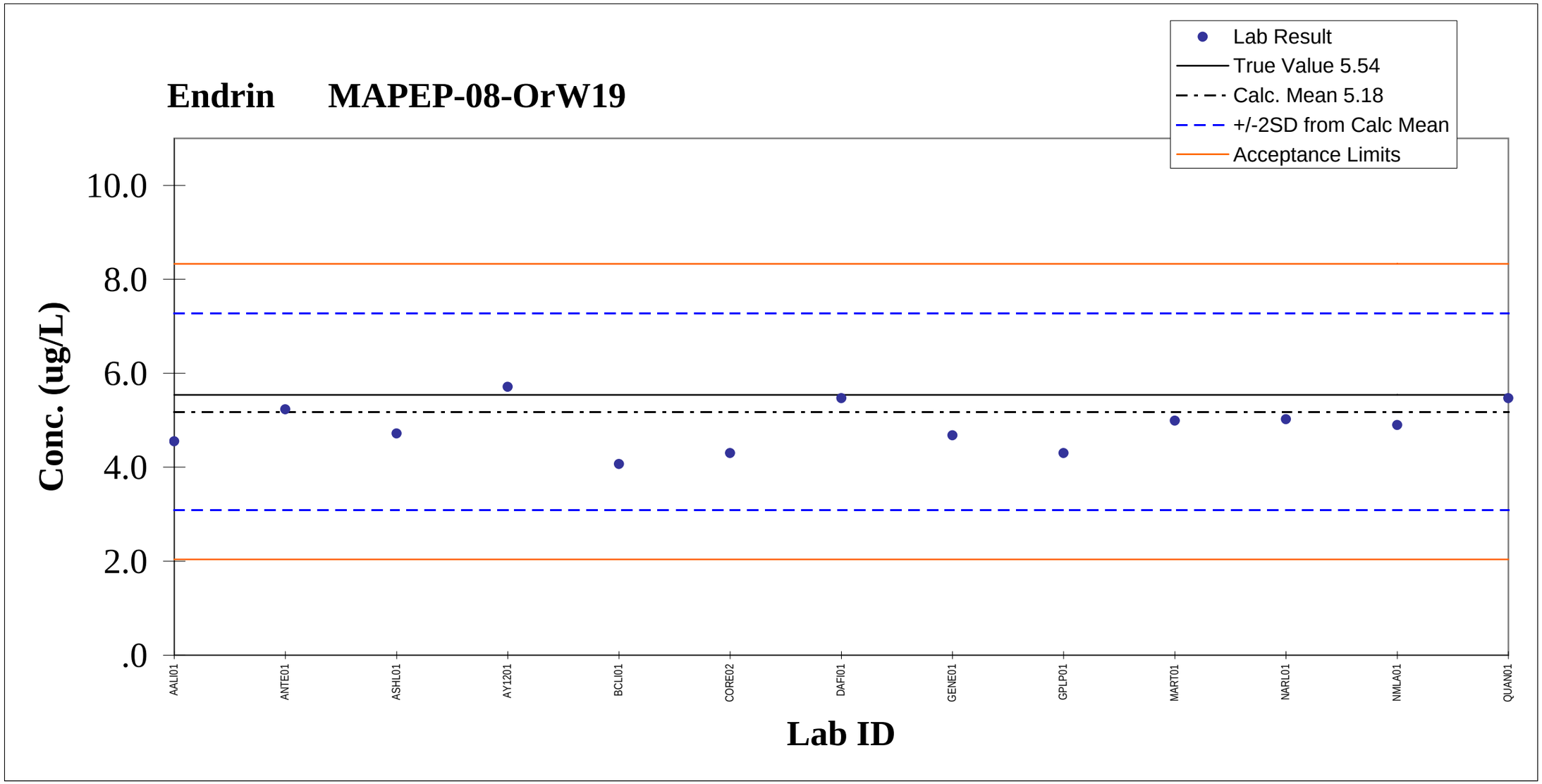
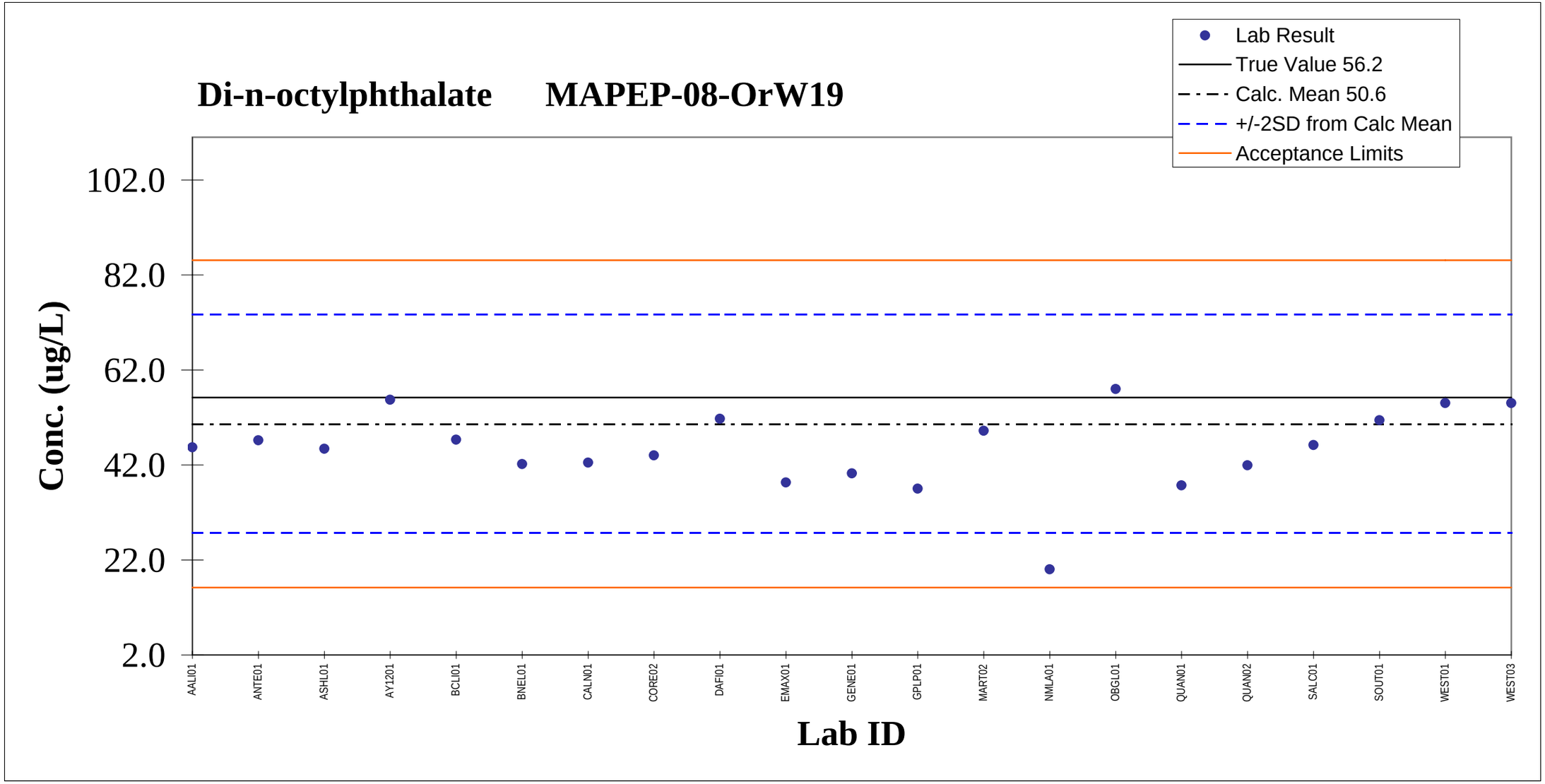
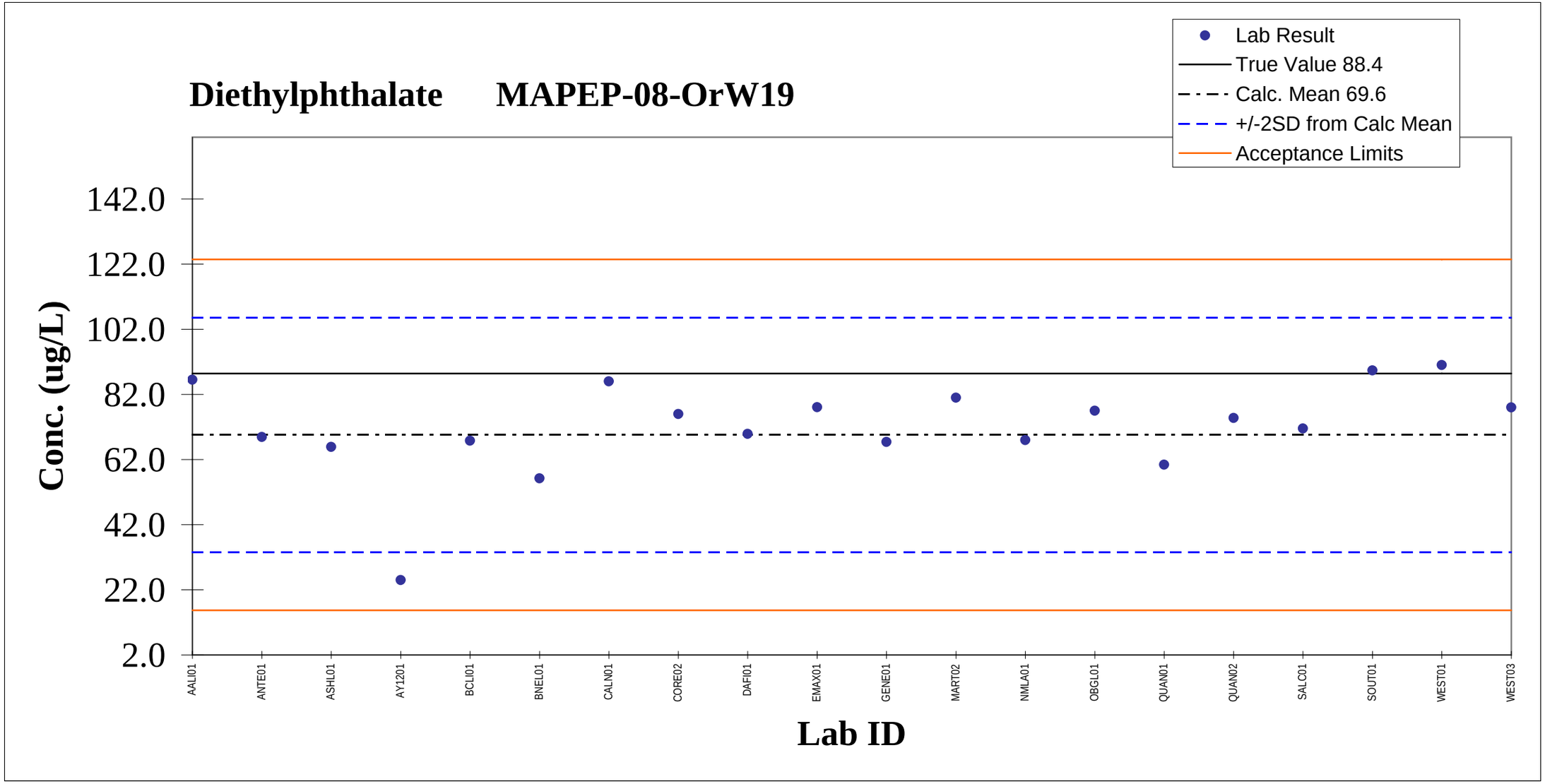
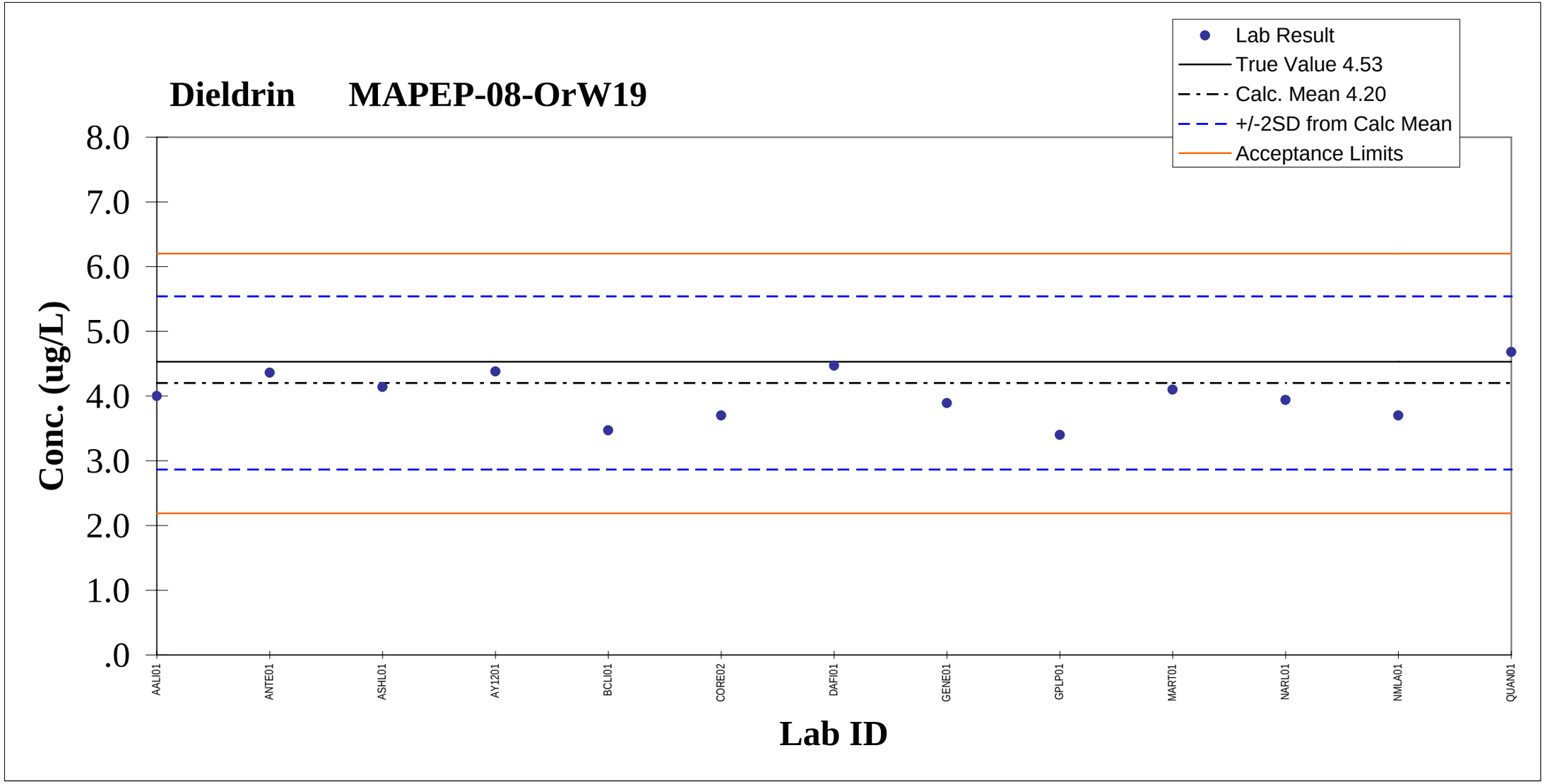
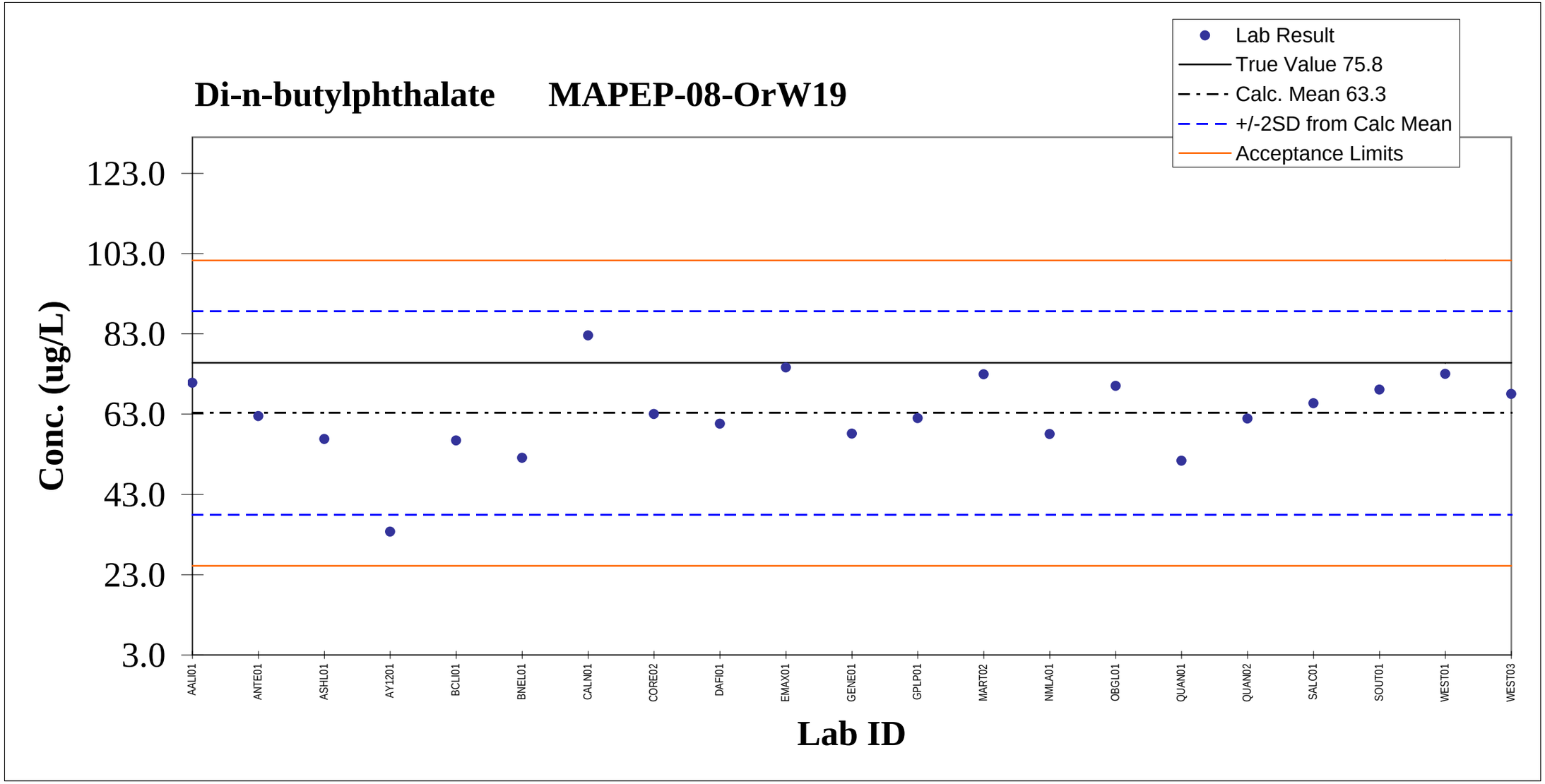
QUAN01
QUAN02
SALC01
SOUT01
WEST01
WEST03
Lab ID

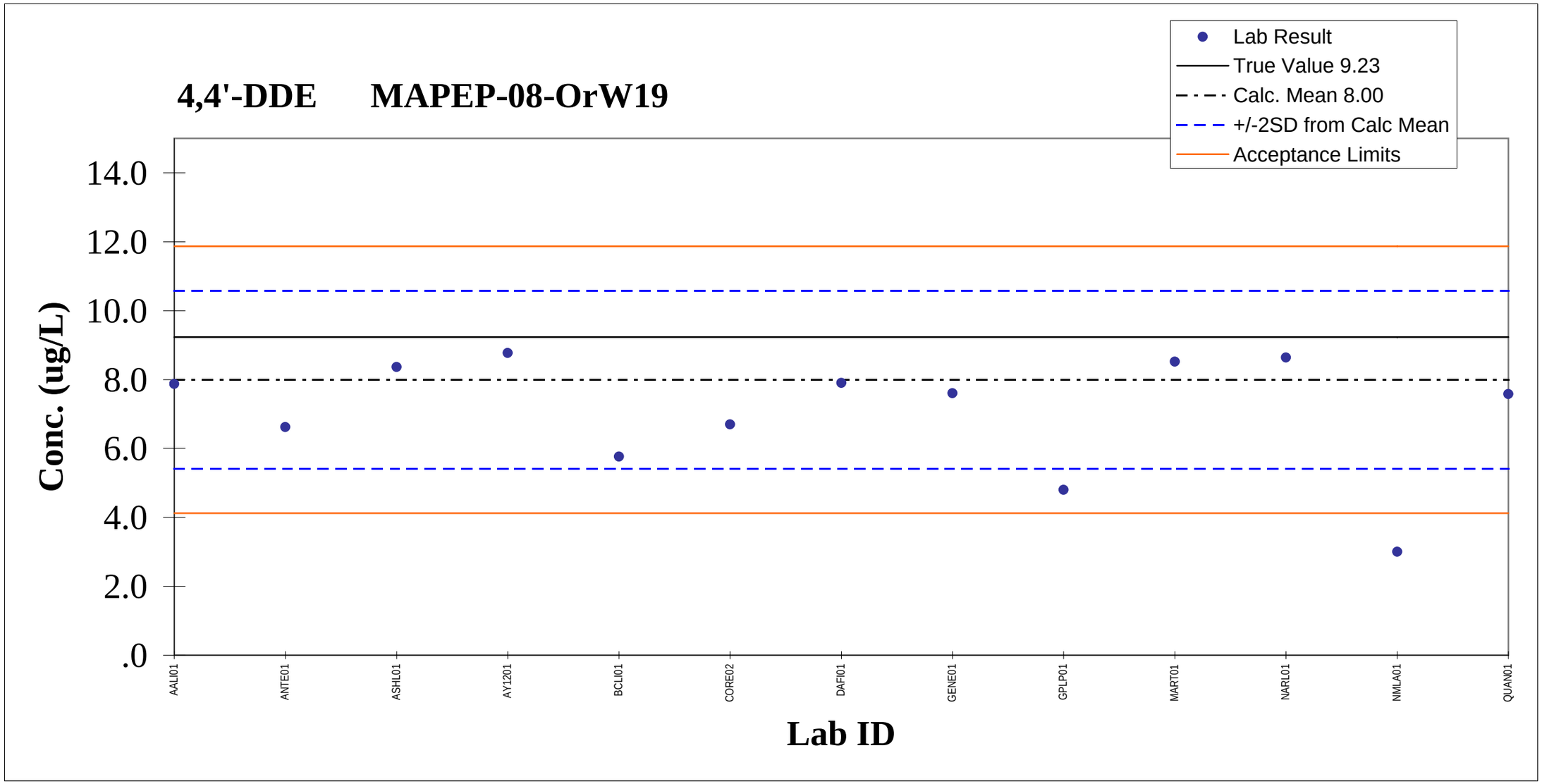

Endrin MAPEP-08-OrW19
Lab Result
True Value 5.54
Calc. Mean 5.18
+/-2SD from Calc Mean
Acceptance Limits
Conc. (ug/L)
10.0
8.0
6.0
4.0
2.0
.0
AALI01
ANTE01
ASHL01
AY1201
BCLI01
CORE02
DAFI01
GENE01
GPLP01
MART01
NARL01
NMLA01
QUAN01
Lab ID

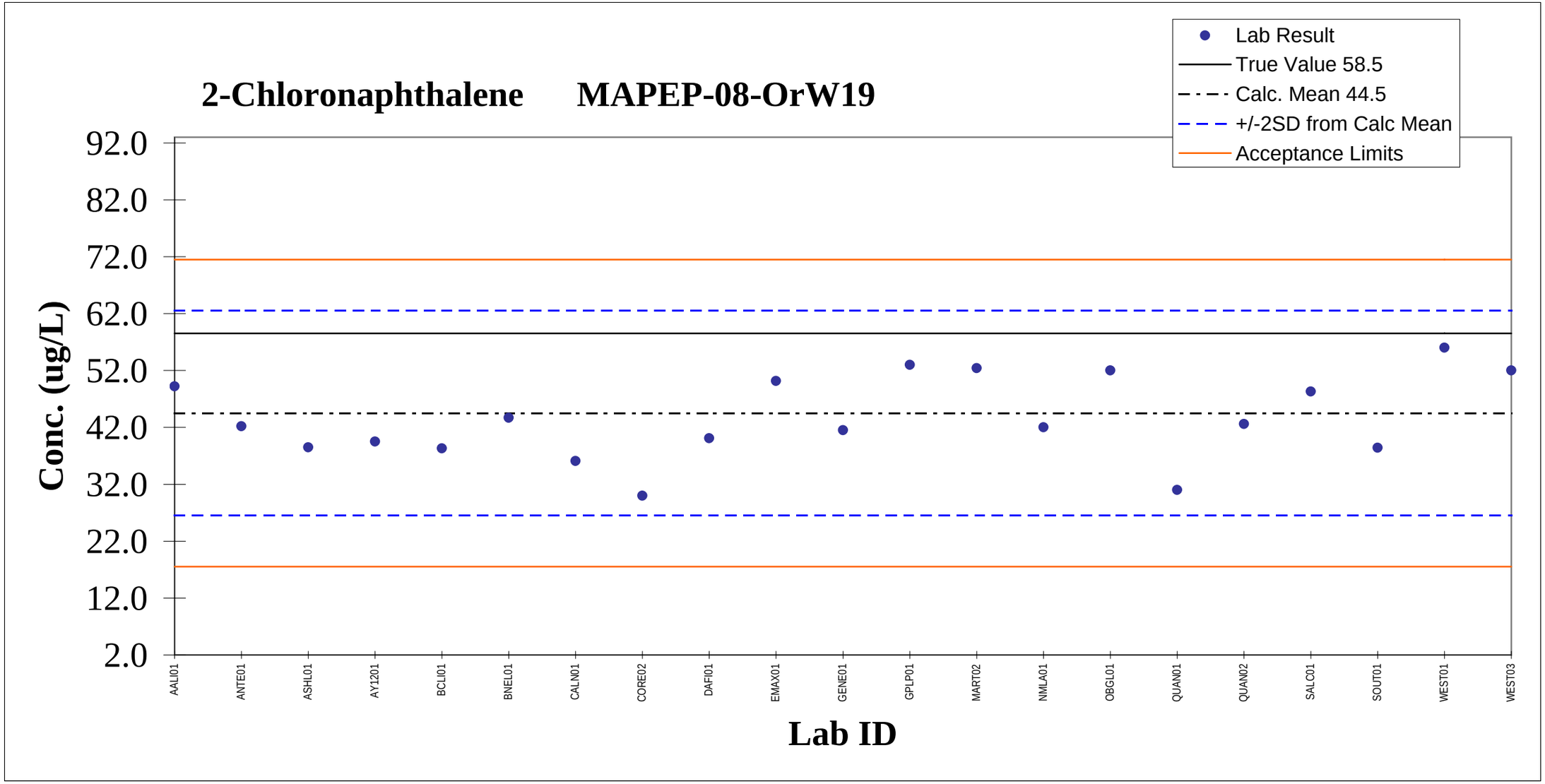

Di-n-octylphthalate MAPEP-08-OrW19
Lab Result
True Value 56.2
Calc. Mean 50.6
+/-2SD from Calc Mean
Acceptance Limits
Conc. (ug/L)
102.0
82.0
62.0
42.0
22.0
2.0
AALI01
ANTE01
ASHL01
AY1201
BCLI01
BNEL01
CALN01
CORE02
DAFI01
EMAX01
GENE01
GPLP01
MART02
NMLA01
OBGL01
QUAN01
QUAN02
SALC01
SOUT01
WEST01
WEST03
Lab ID

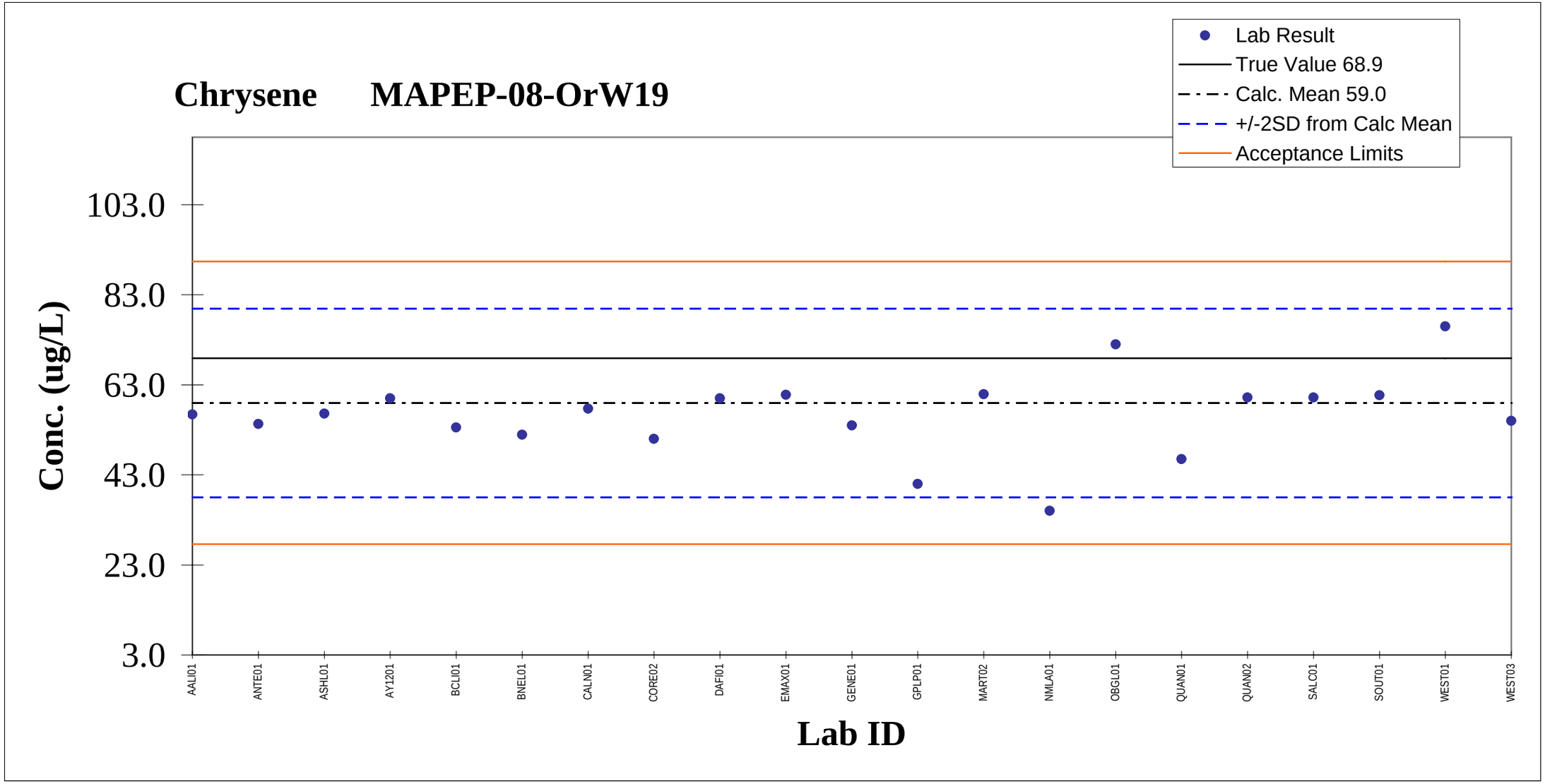

Diethylphthalate MAPEP-08-OrW19
Lab Result
True Value 88.4
Calc. Mean 69.6
+/-2SD from Calc Mean
Acceptance Limits
Conc. (ug/L)
142.0
122.0
102.0
82.0
62.0
42.0
22.0
2.0
AALI01
ANTE01
ASHL01
AY1201
BCLI01
BNEL01
CALN01
CORE02
DAFI01
EMAX01
GENE01
MART02
NMLA01
OBGL01
QUAN01
QUAN02
SALC01
SOUT01
WEST01
WEST03
Lab ID

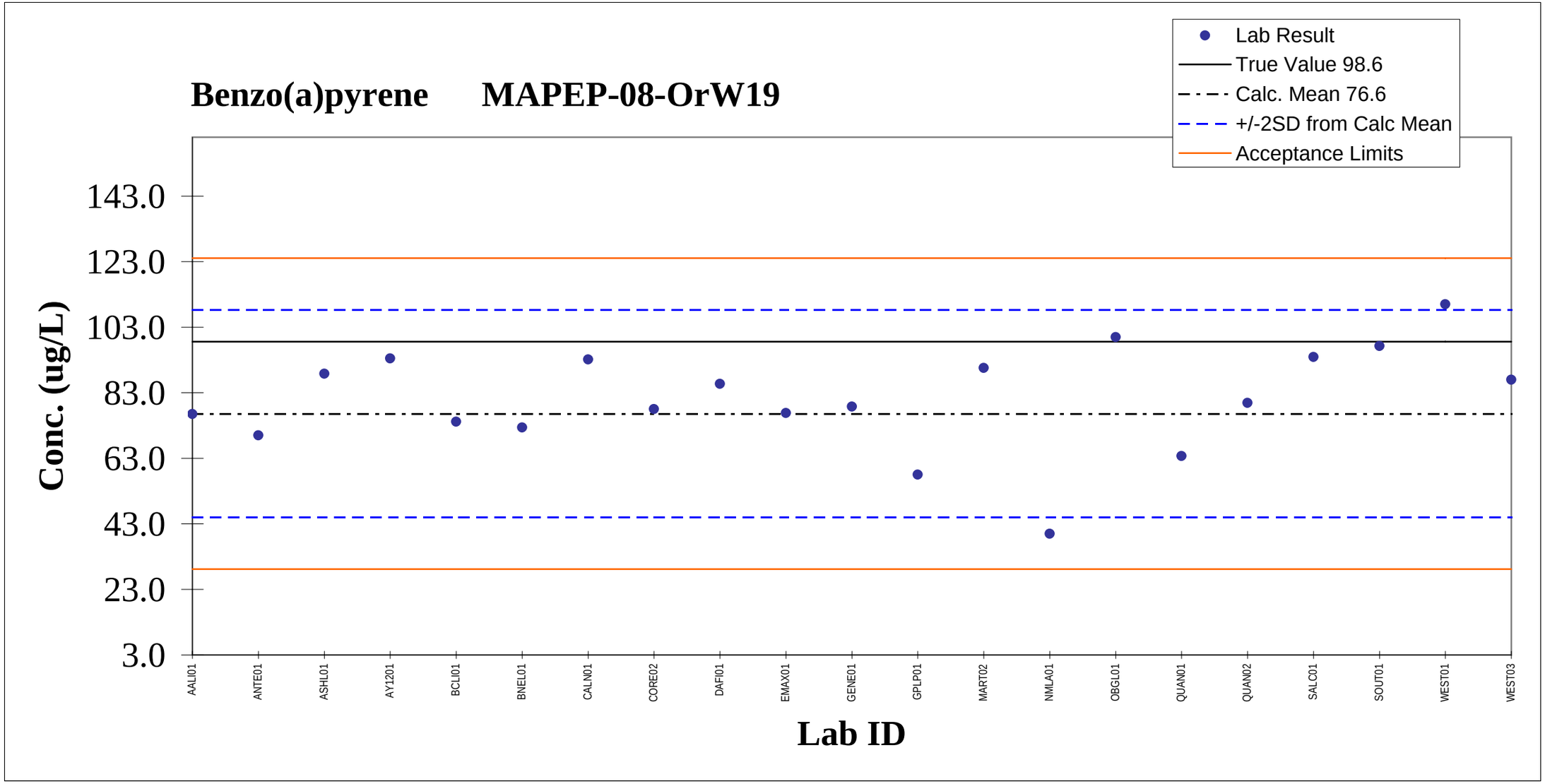

Dieldrin MAPEP-08-OrW19
Lab Result
True Value 4.53
Calc. Mean 4.20
+/-2SD from Calc Mean
Acceptance Limits
Conc. (ug/L)
8.0
7.0
6.0
5.0
4.0
3.0
2.0
1.0
.0
AALI01
ANTE01
ASHL01
AY1201
BCLI01
CORE02
DAFI01
GENE01
GPLP01
MART01
NARL01
NMLA01
QUAN01
Lab ID

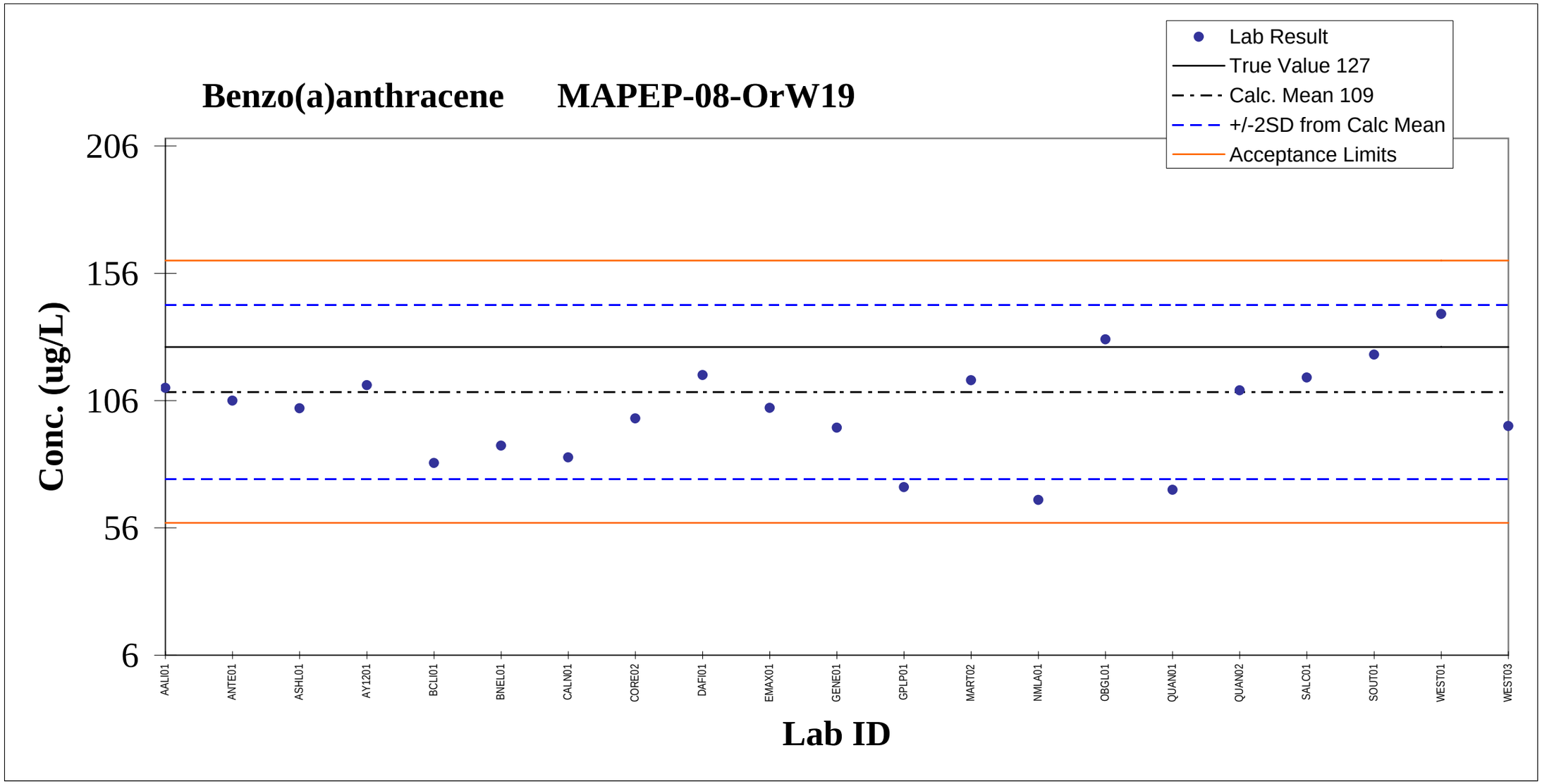

Di-n-butylphthalate MAPEP-08-OrW19
Lab Result
True Value 75.8
Calc. Mean 63.3
+/-2SD from Calc Mean
Acceptance Limits
Conc. (ug/L)
123.0
103.0
83.0
63.0
43.0
23.0
3.0
AALI01
ANTE01
ASHL01
AY1201
BCLI01
BNEL01
CALN01
CORE02
DAFI01
EMAX01
GENE01
GPLP01
MART02
NMLA01
OBGL01
QUAN01
QUAN02
SALC01
SOUT01
WEST01
WEST03
Lab ID

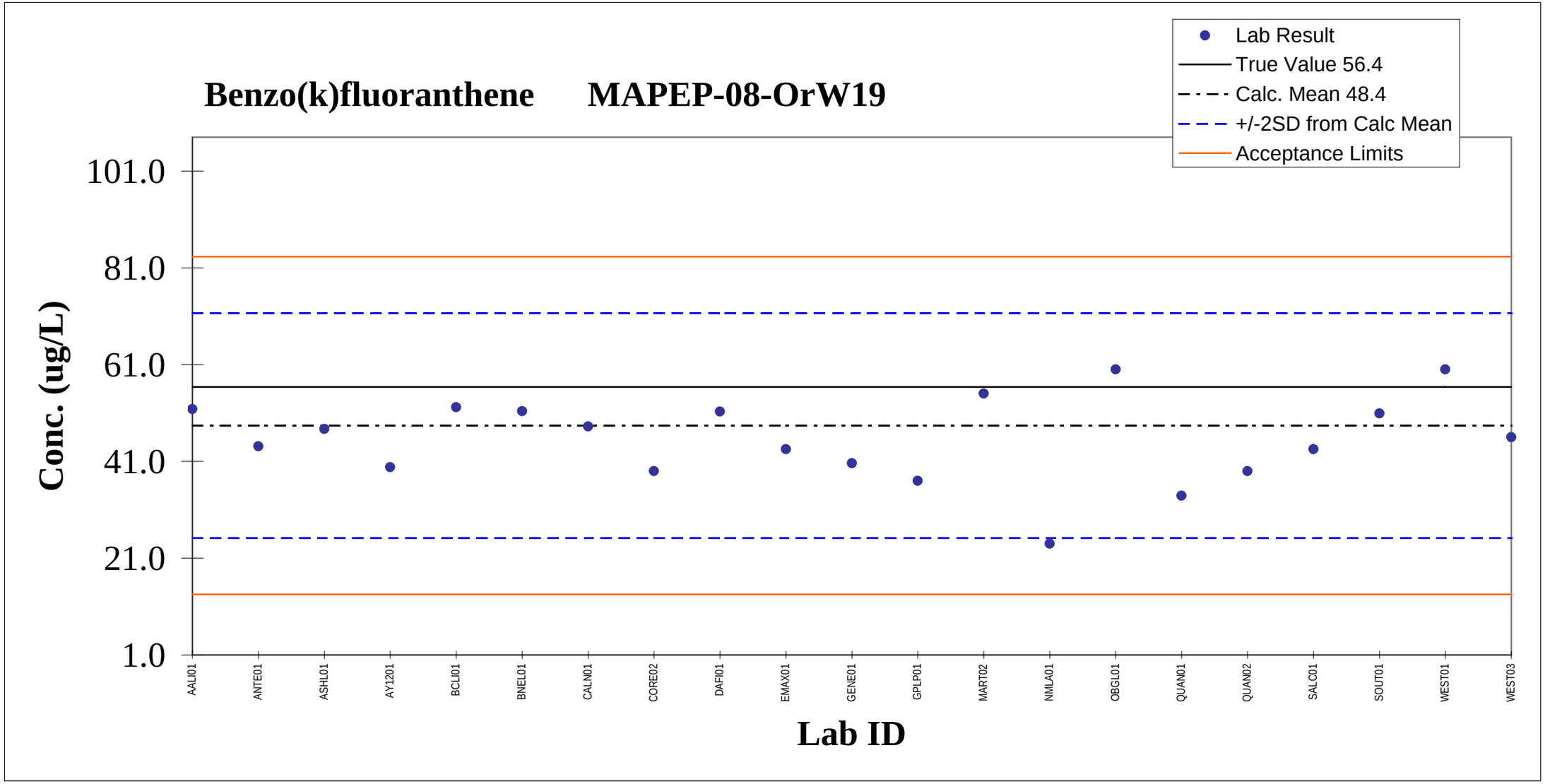

4,4'-DDE MAPEP-08-OrW19
Lab Result
True Value 9.23
Calc. Mean 8.00
+/-2SD from Calc Mean
Acceptance Limits
Conc. (ug/L)
14.0
12.0
10.0
8.0
6.0
4.0
2.0
.0
AALI01
ANTE01
ASHL01
AY1201
BCLI01
CORE02
DAFI01
GENE01
GPLP01
MART01
NARL01
NMLA01
QUAN01
Lab ID

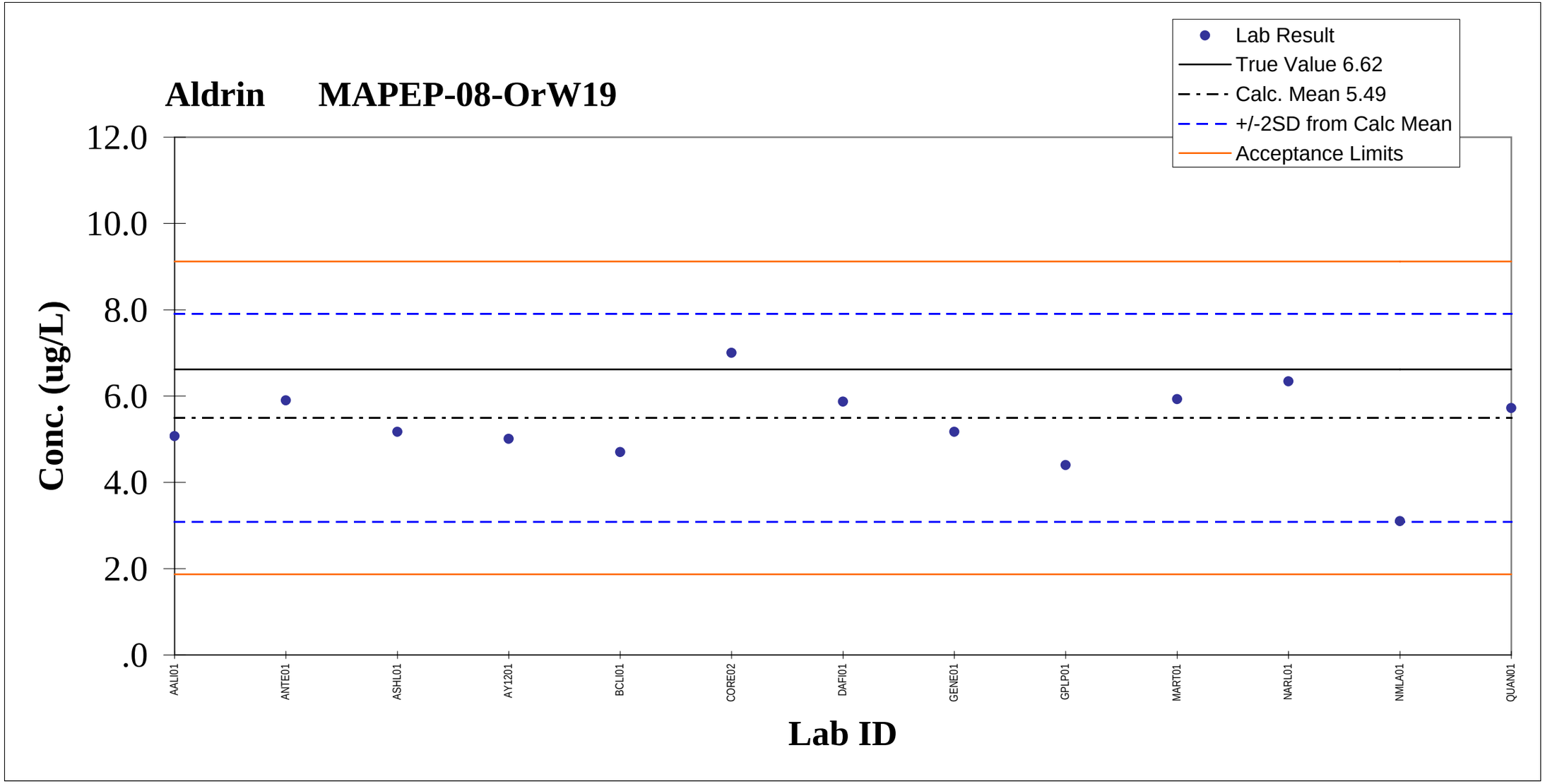

2-Chloronaphthalene MAPEP-08-OrW19
Lab Result
True Value 58.5
Calc. Mean 44.5
+/-2SD from Calc Mean
Acceptance Limits
Conc. (ug/L)
92.0
82.0
72.0
62.0
52.0
42.0
32.0
22.0
12.0
2.0
AALI01
ANTE01
ASHL01
AY1201
BCLI01
BNEL01
CALN01
CORE02
DAFI01
EMAX01
GENE01
GPLP01
MART02
NMLA01
OBGL01
QUAN01
QUAN02
SALC01
SOUT01
WEST01
WEST03
Lab ID

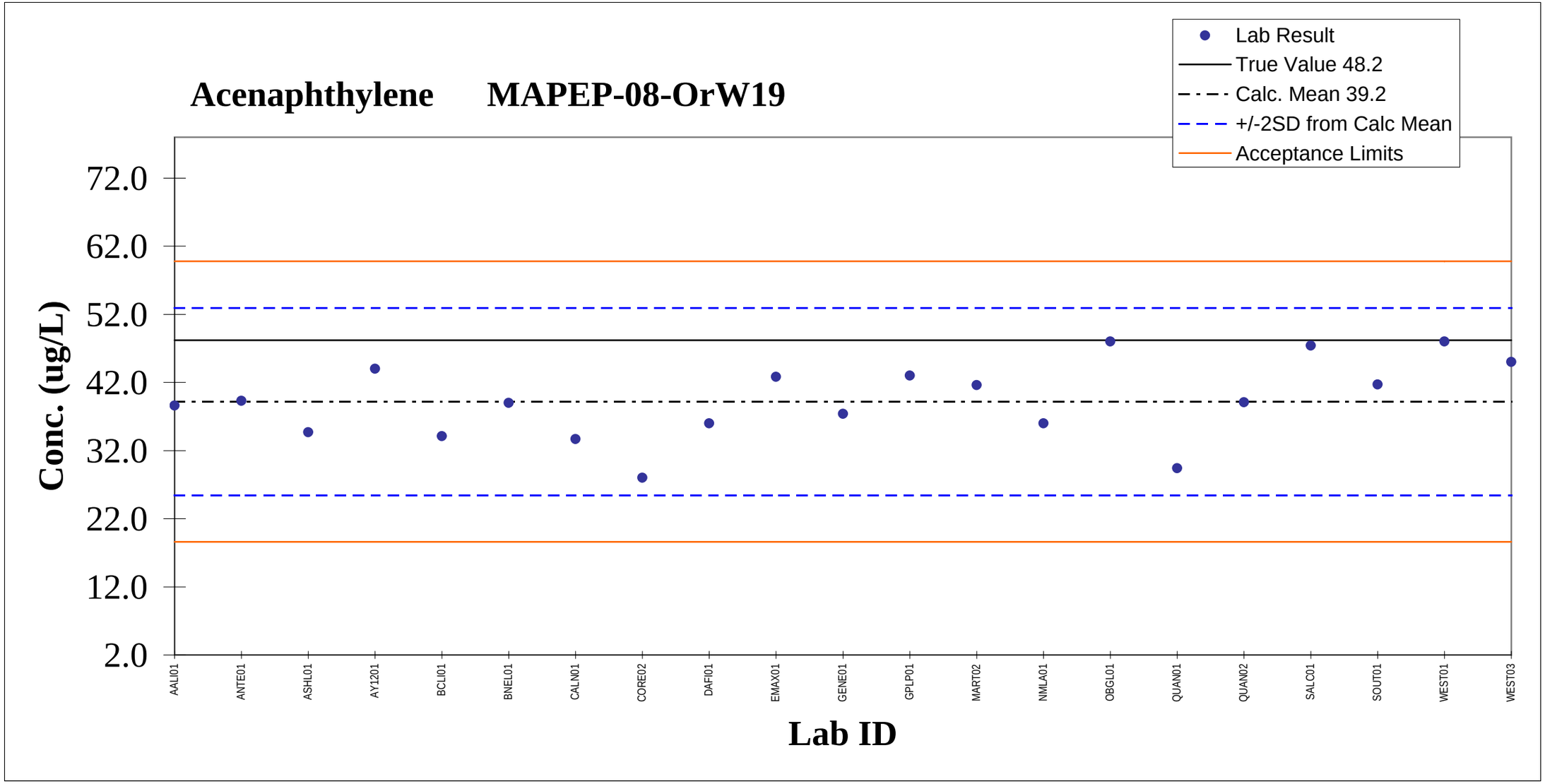

Chrysene MAPEP-08-OrW19
Lab Result
True Value 68.9
Calc. Mean 59.0
+/-2SD from Calc Mean
Acceptance Limits
Conc. (ug/L)
103.0
83.0
63.0
43.0
23.0
3.0
AALI01
ANTE01
ASHL01
AY1201
BCLI01
BNEL01
CALN01
CORE02
DAFI01
EMAX01
GENE01
GPLP01
MART02
NMLA01
OBGL01
QUAN01
QUAN02
SALC01
SOUT01
WEST01
WEST03
Lab ID

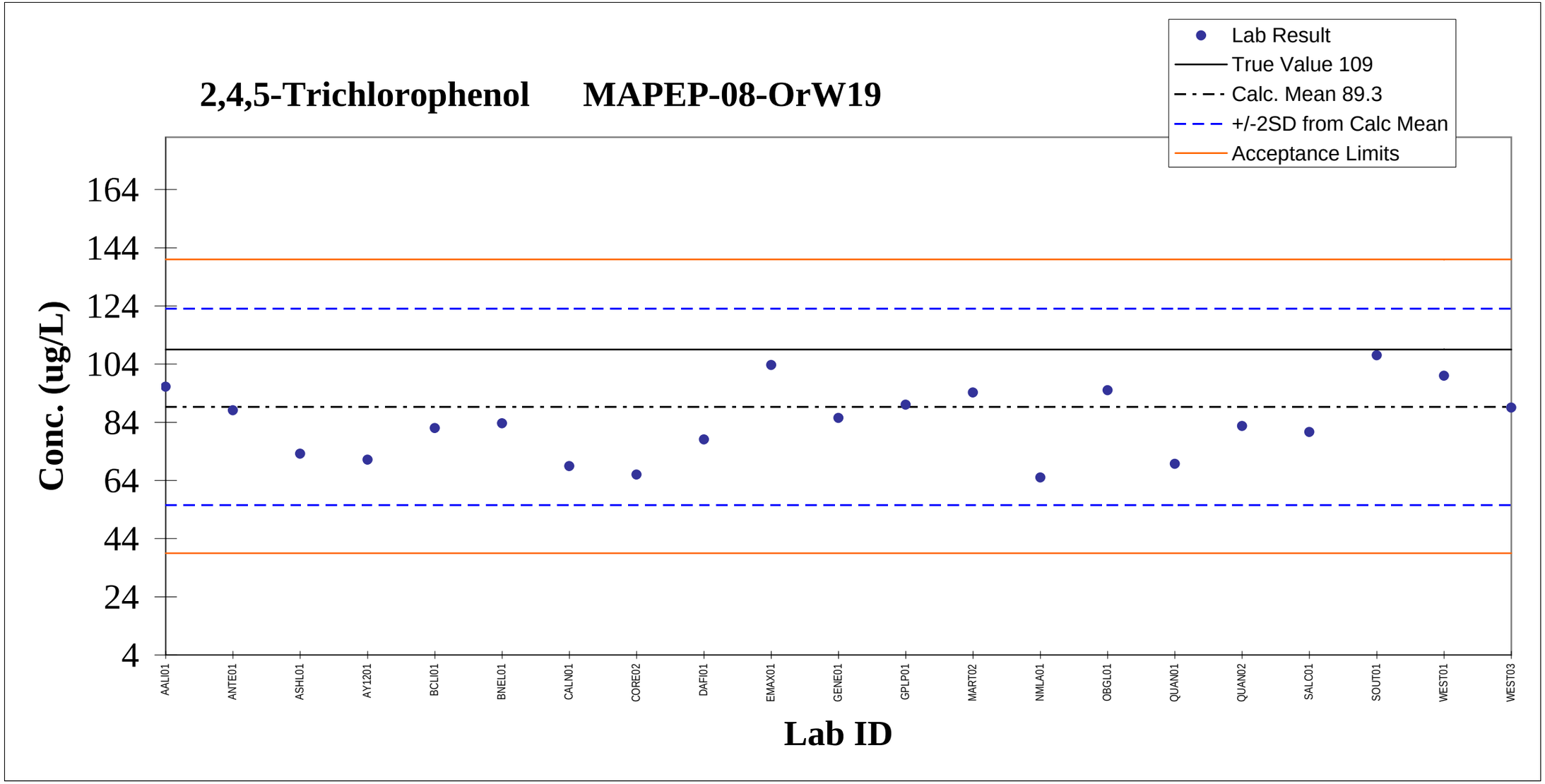

Benzo(a)pyrene MAPEP-08-OrW19
Lab Result
True Value 98.6
Calc. Mean 76.6
+/-2SD from Calc Mean
Acceptance Limits
Conc. (ug/L)
143.0
123.0
103.0
83.0
63.0
43.0
23.0
3.0
AALI01
ANTE01
ASHL01
AY1201
BCLI01
BNEL01
CALN01
CORE02
DAFI01
EMAX01
GENE01
GPLP01
MART02
NMLA01
OBGL01
QUAN01
QUAN02
SALC01
SOUT01
WEST01
WEST03
Lab ID

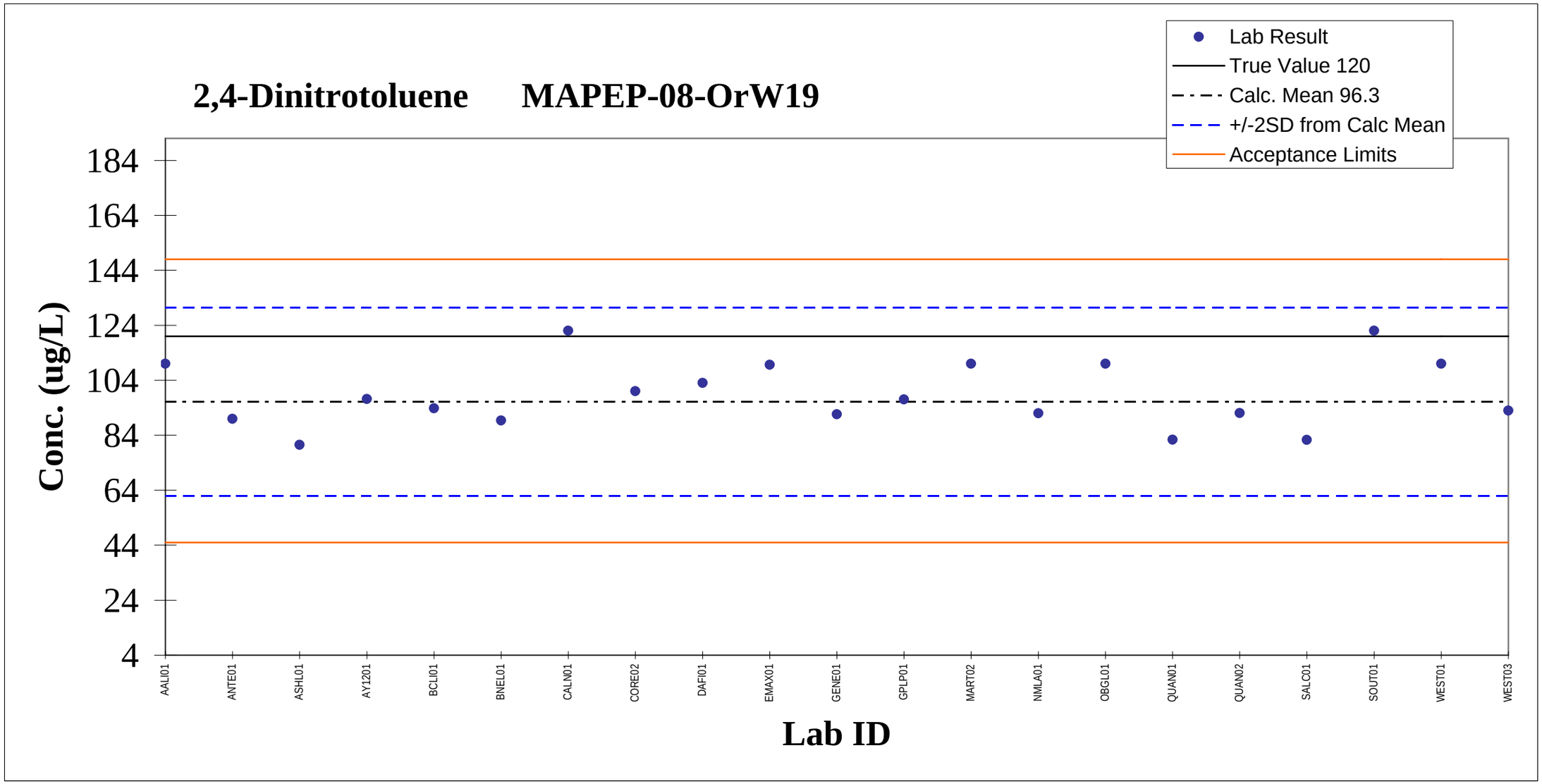

Benzo(a)anthracene MAPEP-08-OrW19
Lab Result
True Value 127
Calc. Mean 109
+/-2SD from Calc Mean
Acceptance Limits
206
156
106
56
6
Conc. (ug/L)
AALI01
ANTE01
ASHL01
AY1201
BCLI01
BNEL01
CALN01
CORE02
DAFI01
EMAX01
GENE01
GPLP01
MART02
NMLA01
OBGL01
QUAN01
QUAN02
SALC01
SOUT01
WEST01
WEST03
Lab ID


Benzo(k)fluoranthene MAPEP-08-OrW19
Lab Result
True Value 56.4
Calc. Mean 48.4
+/-2SD from Calc Mean
Acceptance Limits
Conc. (ug/L)
101.0
81.0
61.0
41.0
21.0
1.0
AALI01
ANTE01
ASHL01
AY1201
BCLI01
BNEL01
CALN01
CORE02
DAFI01
EMAX01
GENE01
GPLP01
MART02
NMLA01
OBGL01
QUAN01
QUAN02
SALC01
SOUT01
WEST01
WEST03
Lab ID


Aldrin MAPEP-08-OrW19
Lab Result
True Value 6.62
Calc. Mean 5.49
+/-2SD from Calc Mean
Acceptance Limits
Conc. (ug/L)
12.0
10.0
8.0
6.0
4.0
2.0
.0
AALI01
ANTE01
ASHL01
AY1201
BCLI01
CORE02
DAFI01
GENE01
GPLP01
MART01
NARL01
NMLA01
QUAN01
Lab ID


Acenaphthylene MAPEP-08-OrW19
Lab Result
True Value 48.2
Calc. Mean 39.2
+/-2SD from Calc Mean
Acceptance Limits
Conc. (ug/L)
72.0
62.0
52.0
42.0
32.0
22.0
12.0
2.0
AALI01
ANTE01
ASHL01
AY1201
BCLI01
BNEL01
CALN01
CORE02
DAFI01
EMAX01
GENE01
GPLP01
MART02
NMLA01
OBGL01
QUAN01
QUAN02
SALC01
SOUT01
WEST01
WEST03
Lab ID


2,4,5-Trichlorophenol MAPEP-08-OrW19
Lab Result
True Value 109
Calc. Mean 89.3
+/-2SD from Calc Mean
Acceptance Limits
Conc. (ug/L)
164
144
124
104
84
64
44
24
4
AALI01
ANTE01
ASHL01
AY1201
BCLI01
BNEL01
CALN01
CORE02
DAFI01
EMAX01
GENE01
GPLP01
MART02
NMLA01
OBGL01
QUAN01
QUAN02
SALC01
SOUT01
WEST01
WEST03
Lab ID


2,4-Dinitrotoluene MAPEP-08-OrW19
Lab Result
True Value 120
Calc. Mean 96.3
+/-2SD from Calc Mean
Acceptance Limits
Conc. (ug/L)
184
164
144
124
104
84
64
44
24
4
AALI01
ANTE01
ASHL01
AY1201
BCLI01
BNEL01
CALN01
CORE02
DAFI01
EMAX01
GENE01
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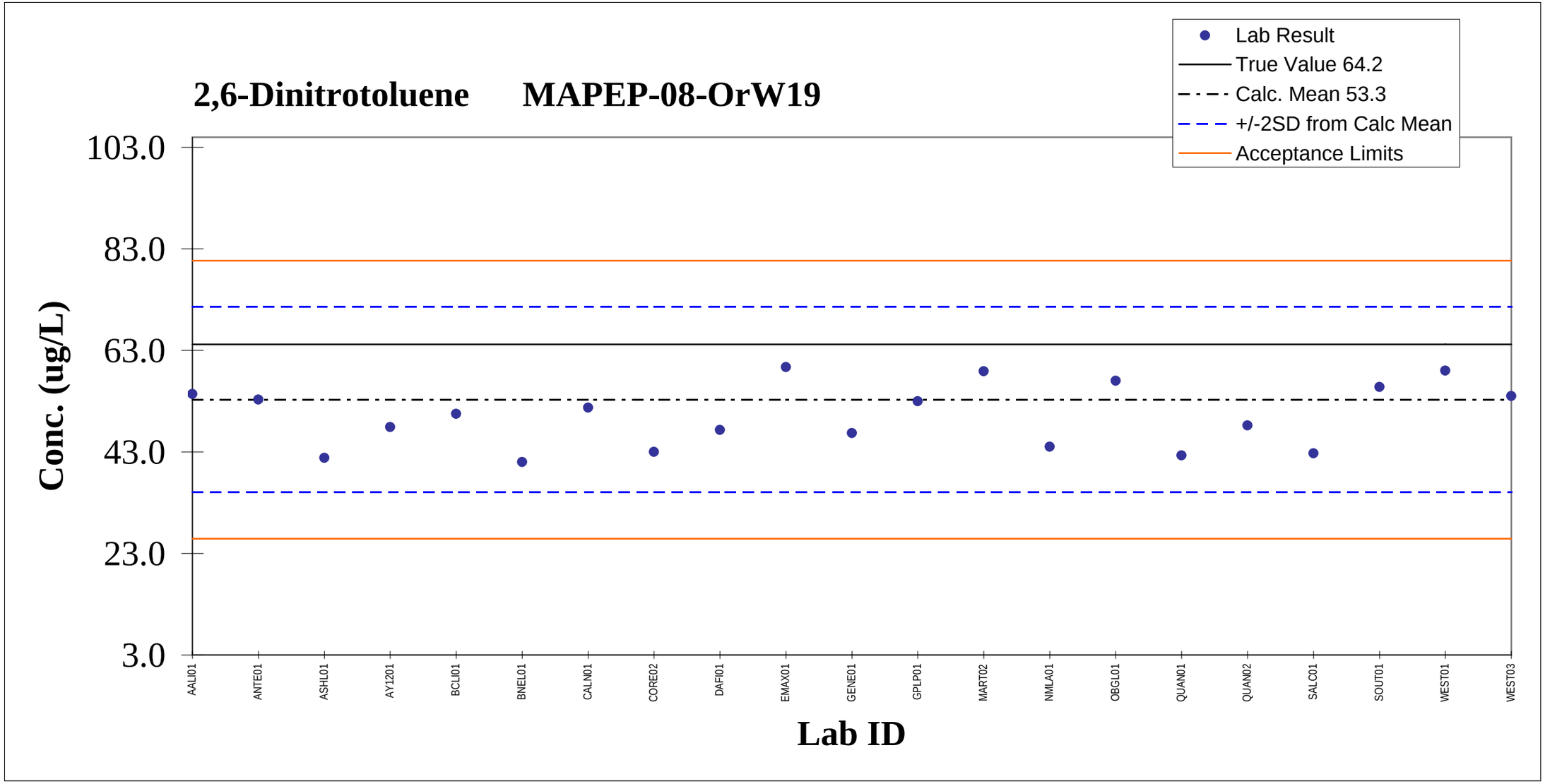
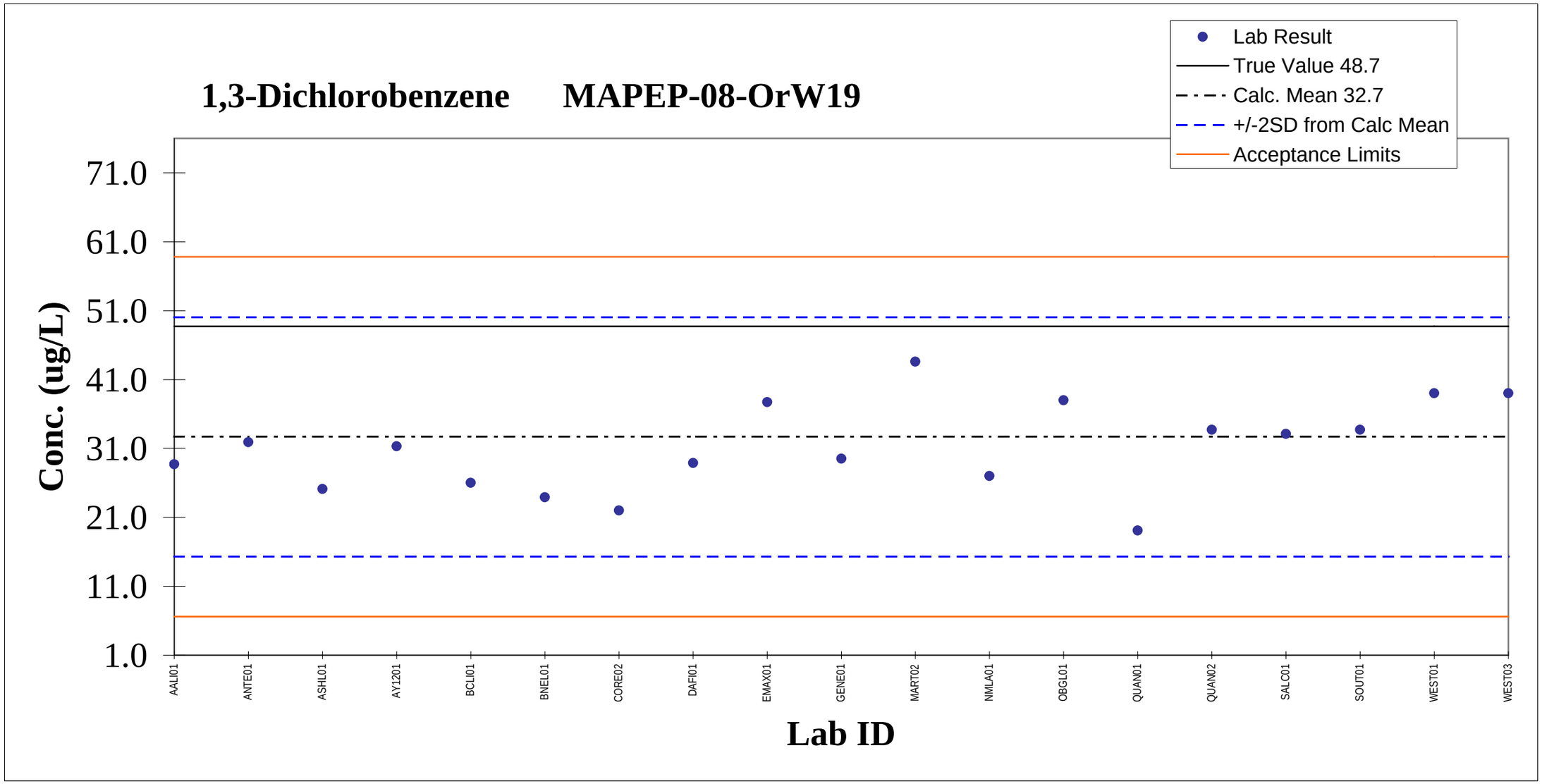
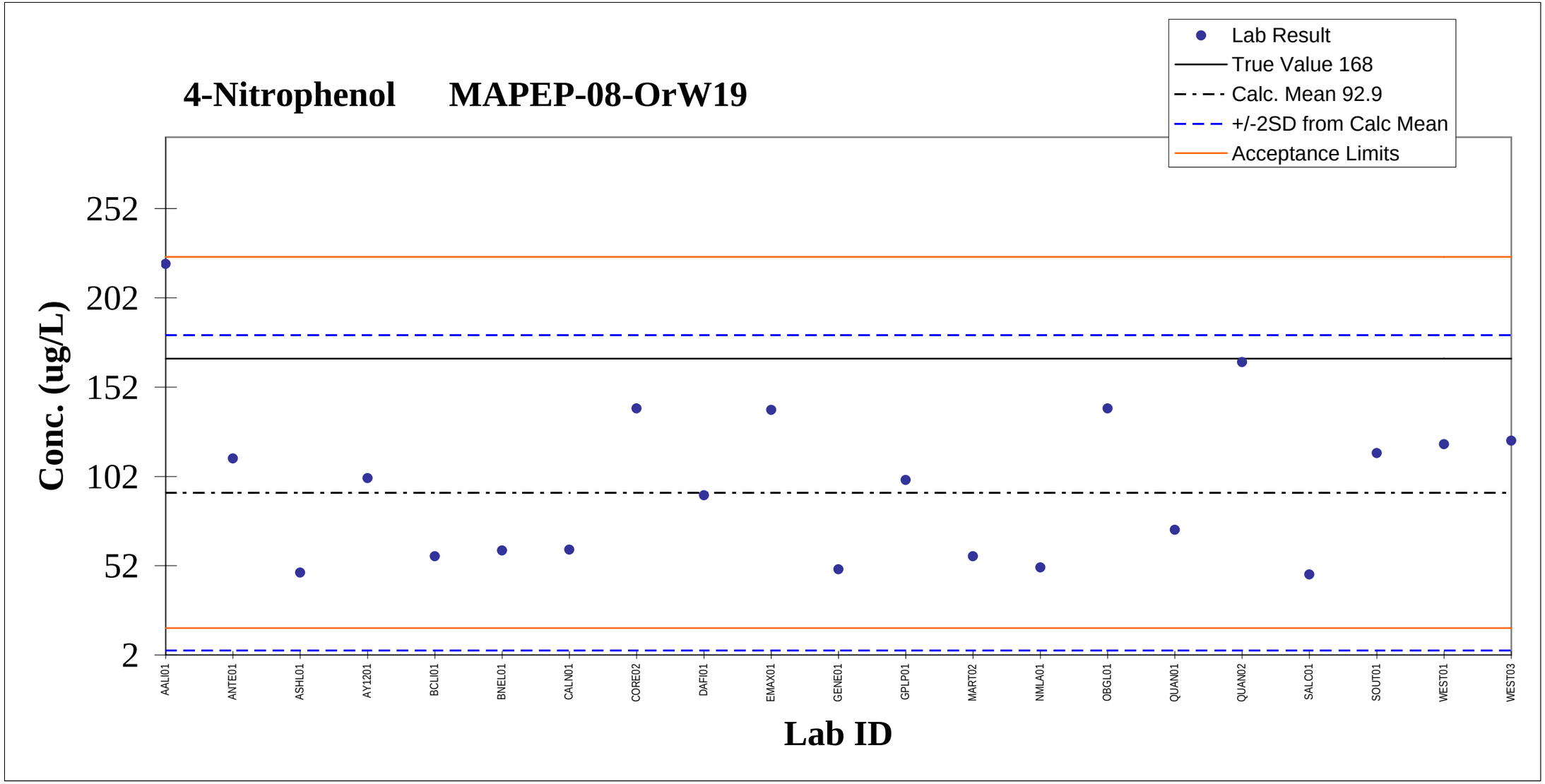
QUAN02
SALC01
SOUT01
WEST01
WEST03
Lab ID


2,6-Dinitrotoluene MAPEP-08-OrW19
Lab Result
True Value 64.2
Calc. Mean 53.3
+/-2SD from Calc Mean
Acceptance Limits
Conc. (ug/L)
103.0
83.0
63.0
43.0
23.0
3.0
AALI01
ANTE01
ASHL01
AY1201
BCLI01
BNEL01
CALN01
CORE02
DAFI01
EMAX01
GENE01
GPLP01
MART02
NMLA01
OBGL01
QUAN01
QUAN02
SALC01
SOUT01
WEST01
WEST03
Lab ID


1,3-Dichlorobenzene MAPEP-08-OrW19
Lab Result
True Value 48.7
Calc. Mean 32.7
+/-2SD from Calc Mean
Acceptance Limits
Conc. (ug/L)
71.0
61.0
51.0
41.0
31.0
21.0
11.0
1.0
AALI01
ANTE01
ASHL01
AY1201
BCLI01
BNEL01
CORE02
DAFI01
EMAX01
GENE01
MART02
NMLA01
OBGL01
QUAN01
QUAN02
SALC01
SOUT01
WEST01
WEST03
Lab ID


4-Nitrophenol MAPEP-08-OrW19
Lab Result
True Value 168
Calc. Mean 92.9
+/-2SD from Calc Mean
Acceptance Limits
Conc. (ug/L)
252
202
152
102
52
2
AALI01
ANTE01
ASHL01
AY1201
BCLI01
BNEL01
CALN01
CORE02
DAFI01
EMAX01
GENE01
GPLP01
MART02
NMLA01
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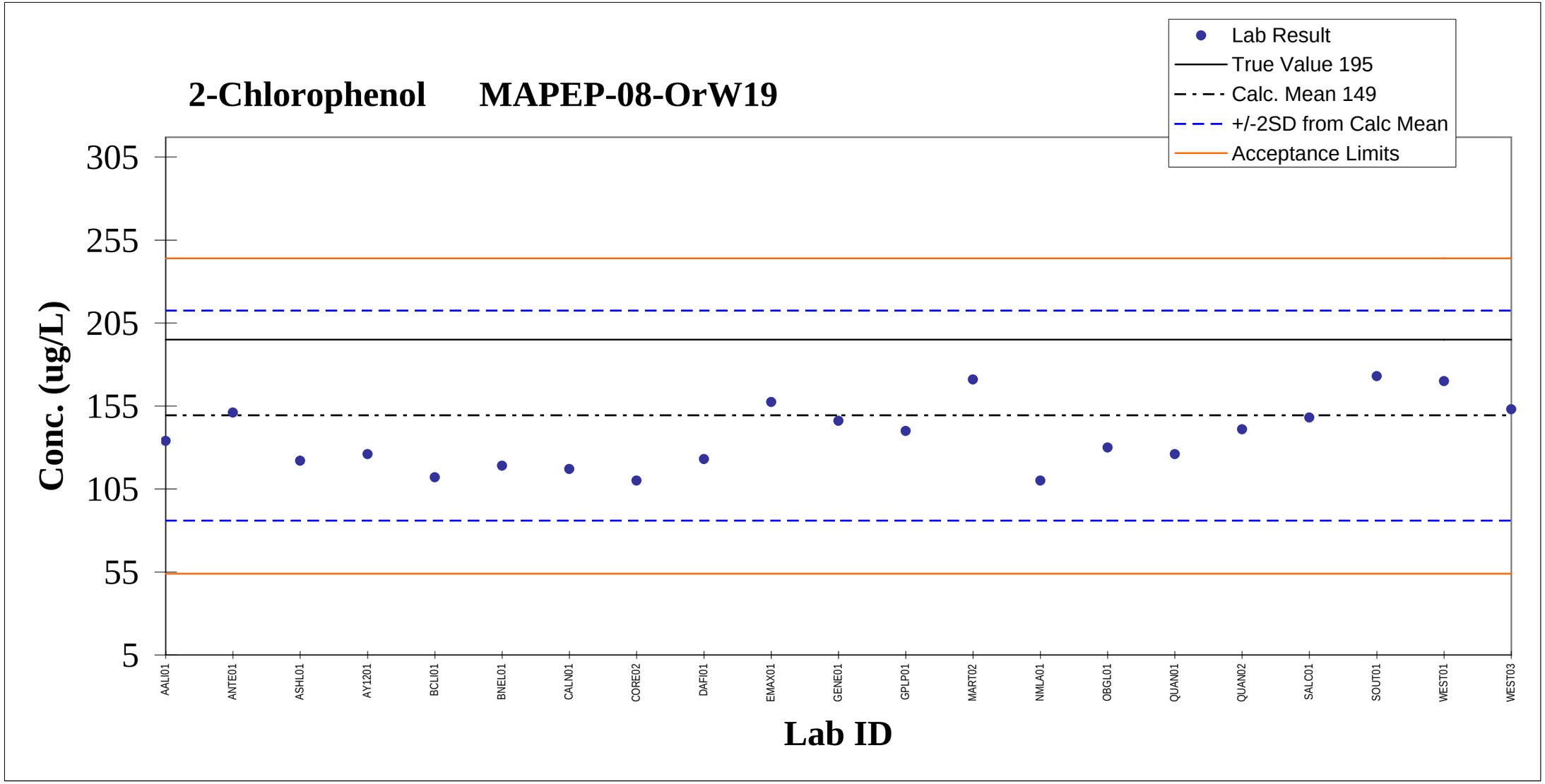
QUAN01
QUAN02
SALC01
SOUT01
WEST01
WEST03
Lab ID


2-Chlorophenol MAPEP-08-OrW19
Lab Result
True Value 195
Calc. Mean 149
+/-2SD from Calc Mean
Acceptance Limits
Conc. (ug/L)
305
255
205
155
105
55
5
AALI01
ANTE01
ASHL01
AY1201
BCLI01
BNEL01
CALN01
CORE02
DAFI01
EMAX01
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OBGL01
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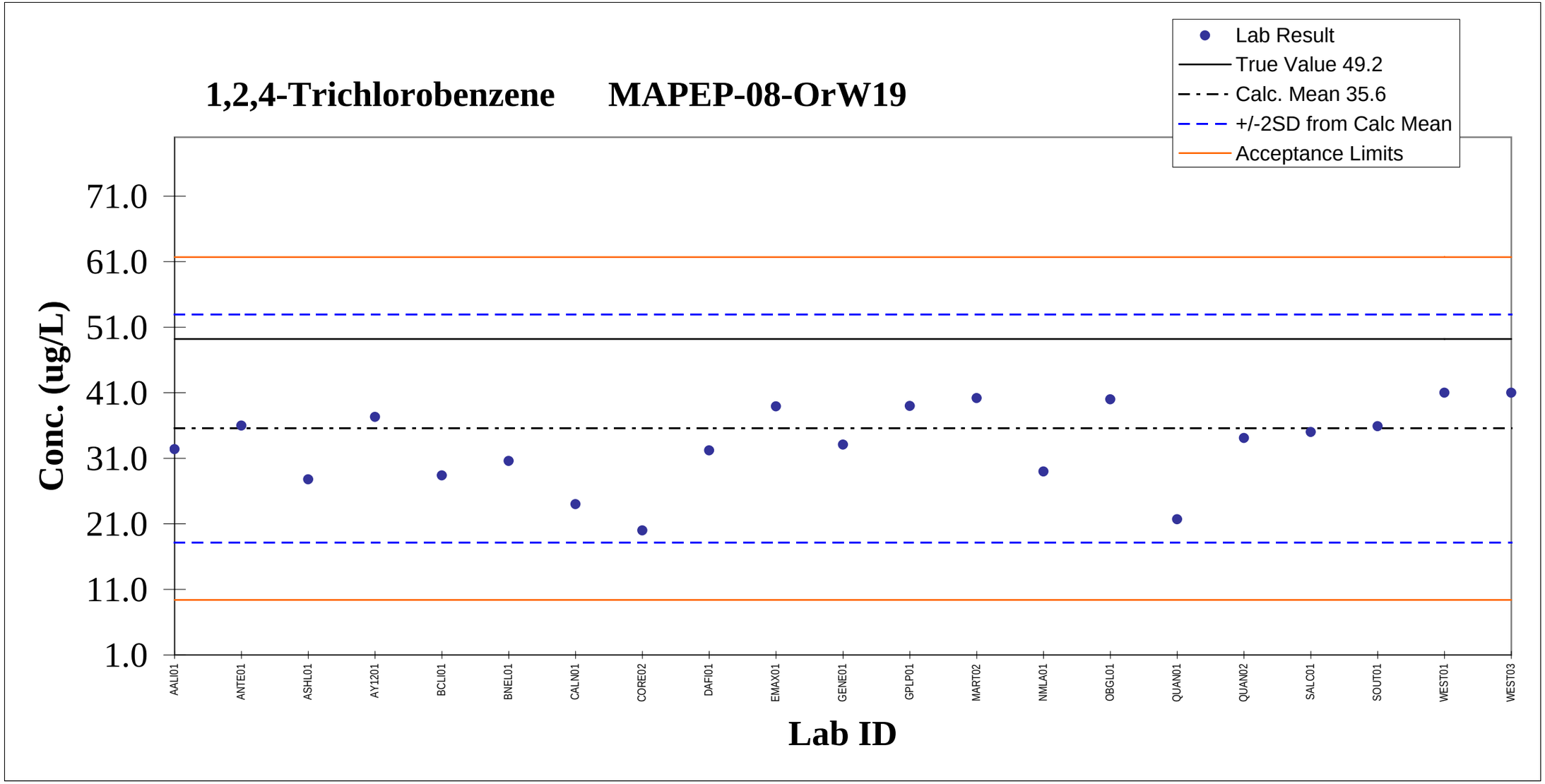
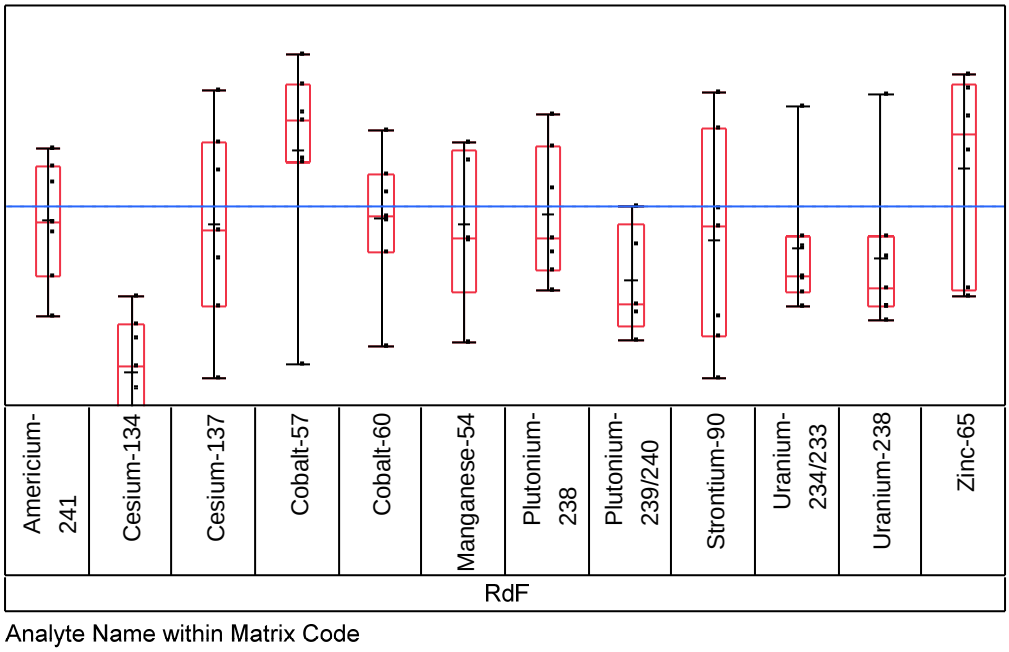
QUAN02
SALC01
SOUT01
WEST01
WEST03
Lab ID


1,2,4-Trichlorobenzene MAPEP-08-OrW19
Lab Result
True Value 49.2
Calc. Mean 35.6
+/-2SD from Calc Mean
Acceptance Limits
Conc. (ug/L)
71.0
61.0
51.0
41.0
31.0
21.0
11.0
1.0
AALI01
ANTE01
ASHL01
AY1201
BCLI01
BNEL01
CALN01
CORE02
DAFI01
EMAX01
GENE01
GPLP01
MART02
NMLA01
OBGL01
QUAN01
QUAN02
SALC01
SOUT01
WEST01
WEST03
Lab ID

The intent of the historical graphs contained within this report is to graphically illustrate how laboratories are historically performing within the MAPEP program. The data points (small 'dots') plot the bias (or z-score for organic constituents) of each of the analytes in each of the matrices for each of the studies for MAPEP since Series 12. The BLACK small horizontal line is the mean of the population of the bias shown for that analyte in the matrix. The red box is a typical "box plot" of the data.



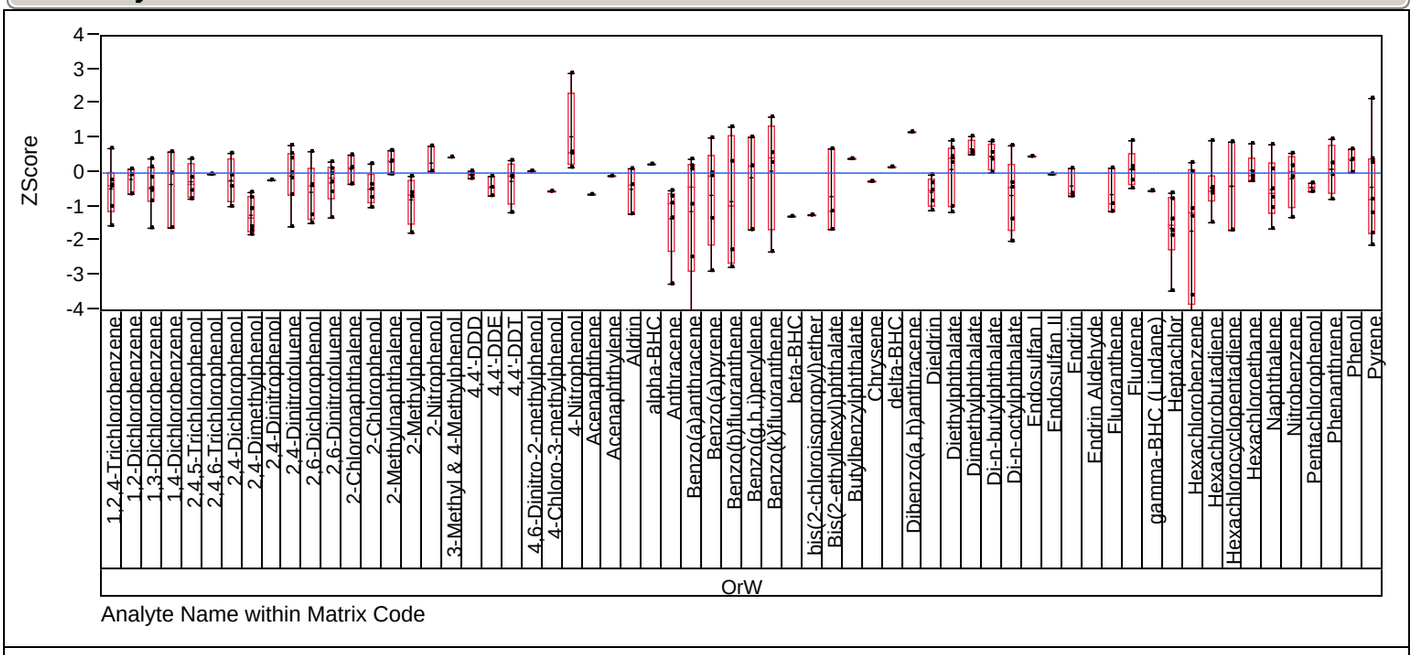
The box plots summarize the distribution of points for each analyte. The ends of the box are the 25th and 75th quantiles. The difference between the quartiles is the interquartile range. The line across the middle of the box identifies the median sample value. Each box has lines, sometimes called whiskers, that extend from each end. The whiskers extend from the ends of the end to the outermost data point that falls within the distances computed .

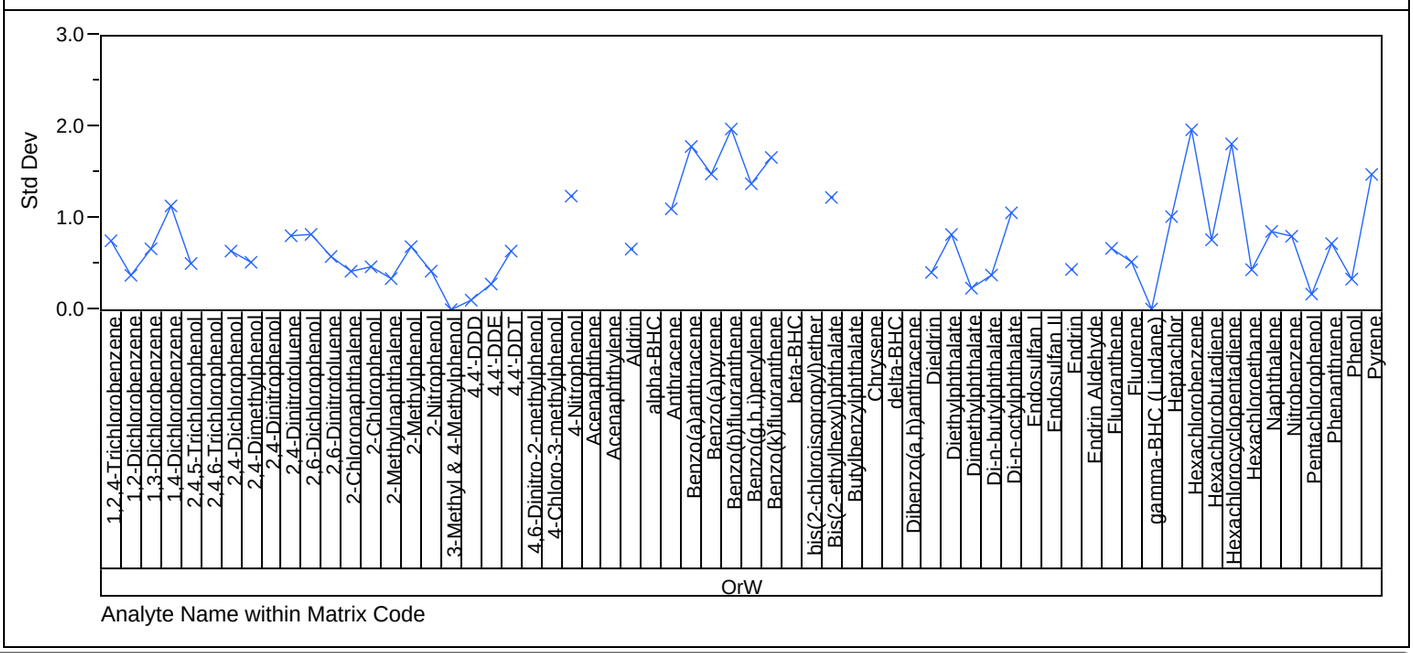
The box plot along with the laboratory bias data points and the mean visually illustrate the breadth of the distribution and where any potential outliers in the distribution might lie. The ideal visual representation would be to have a very small box plot on top of a very small distribution of data thus indicating very good precision. Accuracy would be reflected by having the mean bias very close to zero (i.e. the box plot overlaps zero at some point).

The Standard Deviation plot below the Bias plot is just that, the standard deviation of the % bias shown above. The ideal pot would be to have the standard deviation as small as possible.

Variability Gauge Lab Code=AALI01

Variability Chart for ZScore



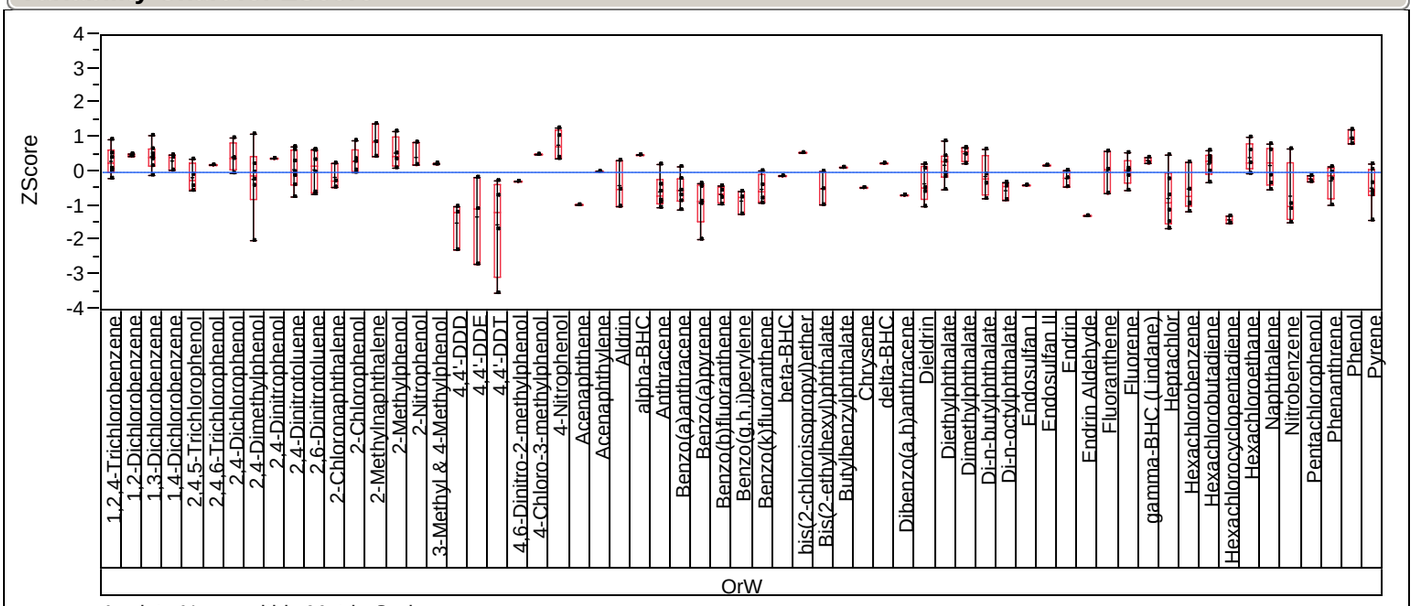


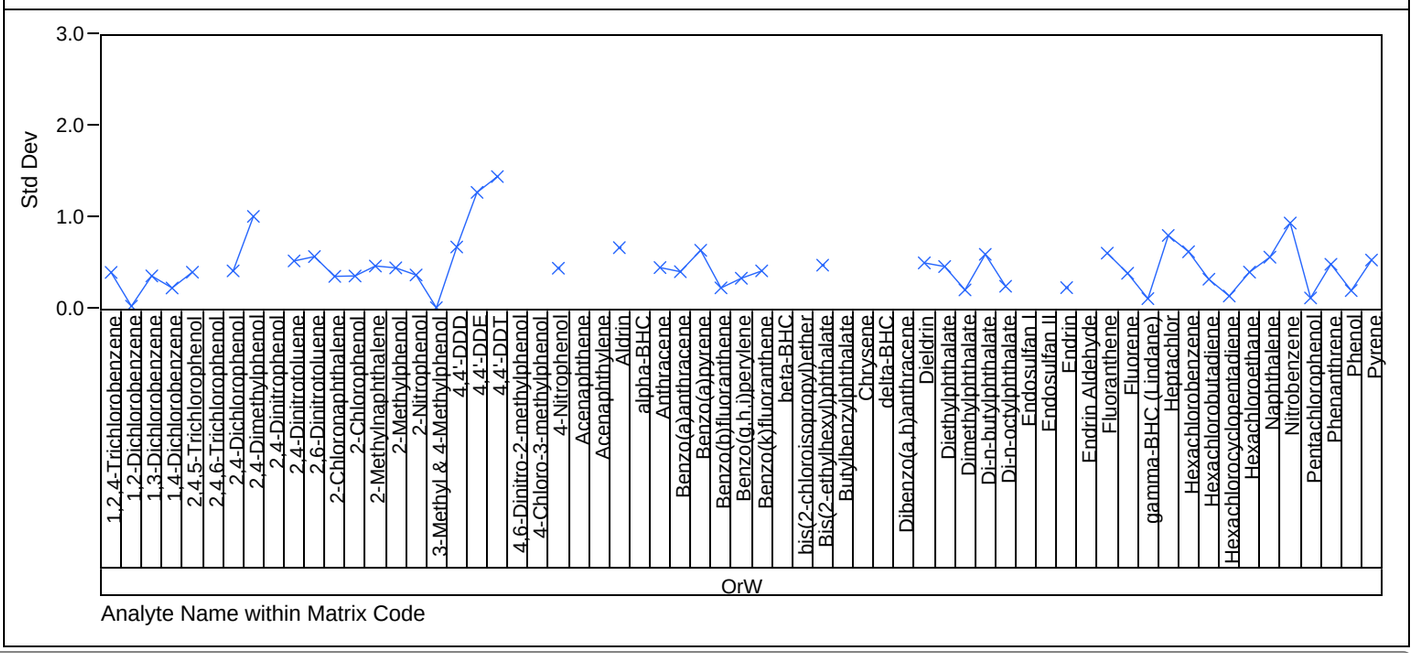
Variability Gauge Lab Code=ANTE01

Variability Chart for ZScore

Variability Gauge Lab Code=ANTE01

Variability Chart for ZScore



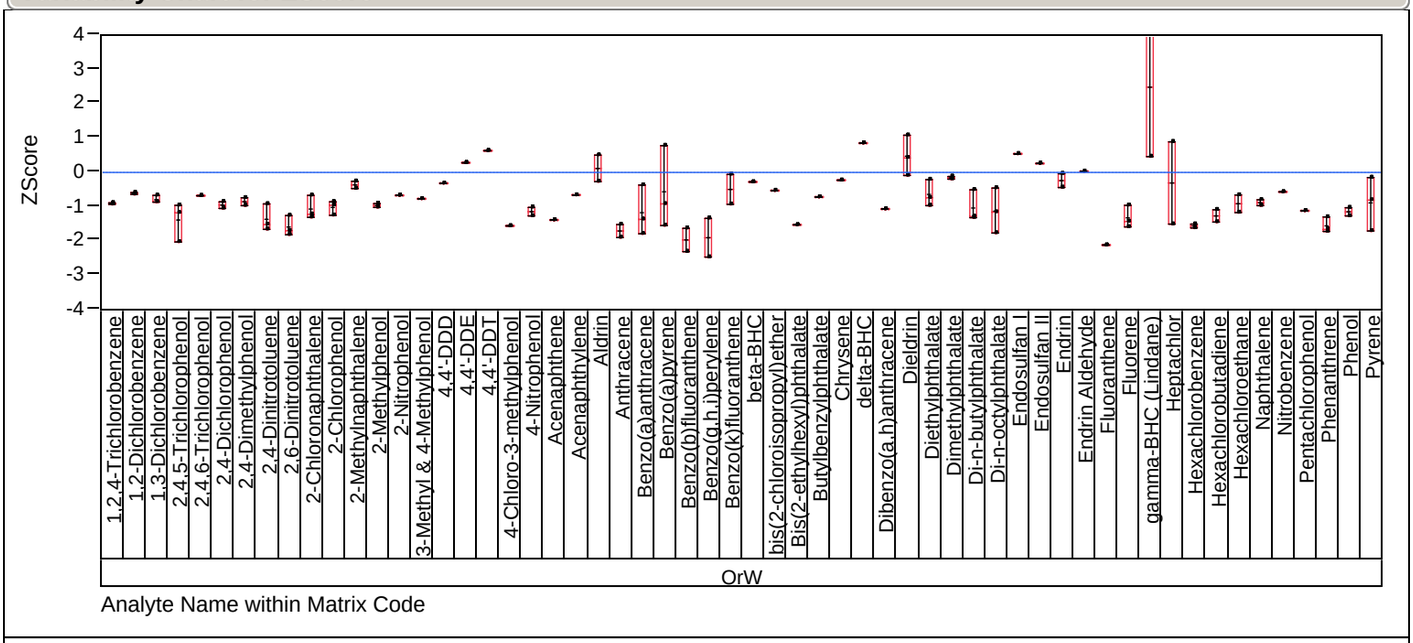


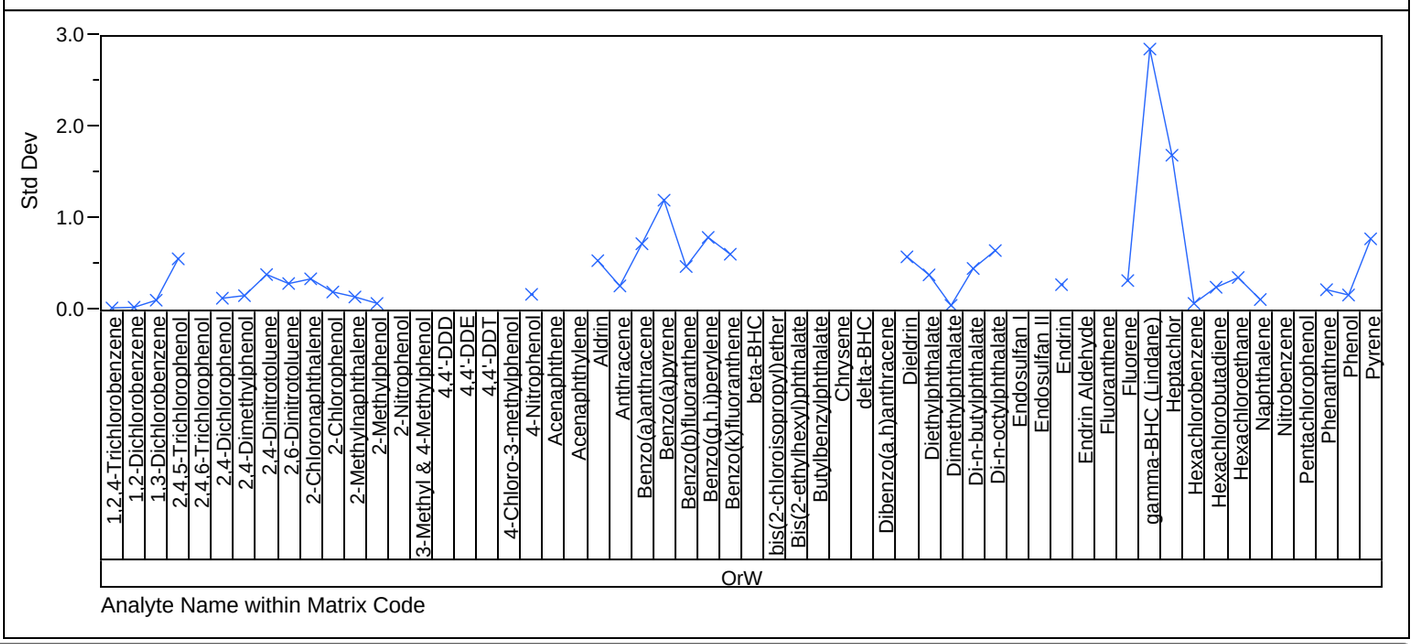
Variability Gauge Lab Code=ASHL01

Variability Chart for ZScore

Variability Gauge Lab Code=ASHL01

Variability Chart for ZScore



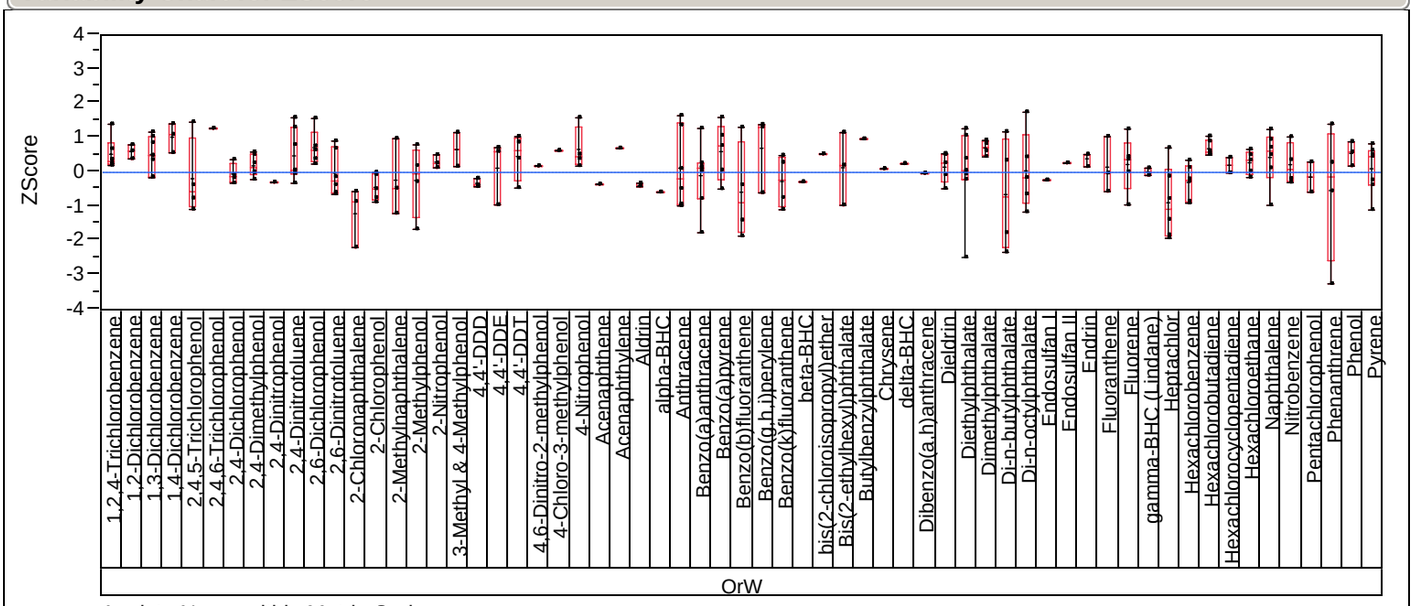


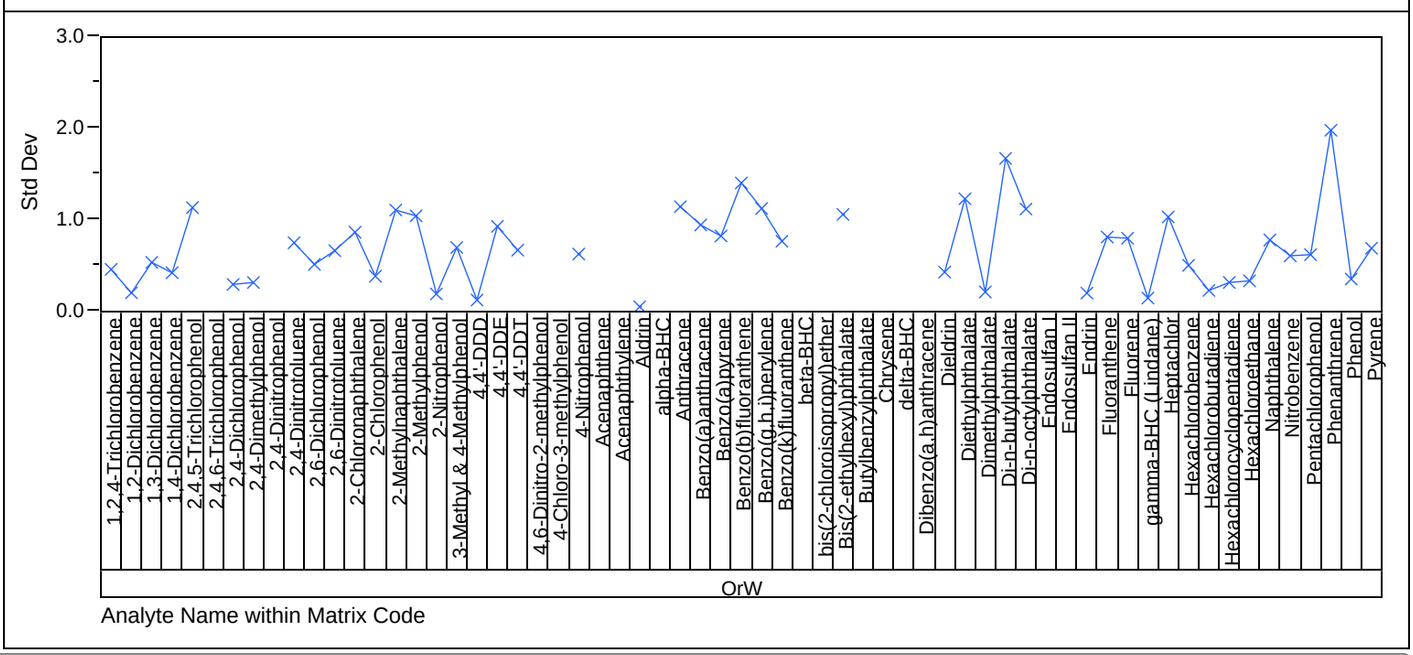
Variability Gauge Lab Code=AY1201

Variability Chart for ZScore

Variability Gauge Lab Code=AY1201

Variability Chart for ZScore



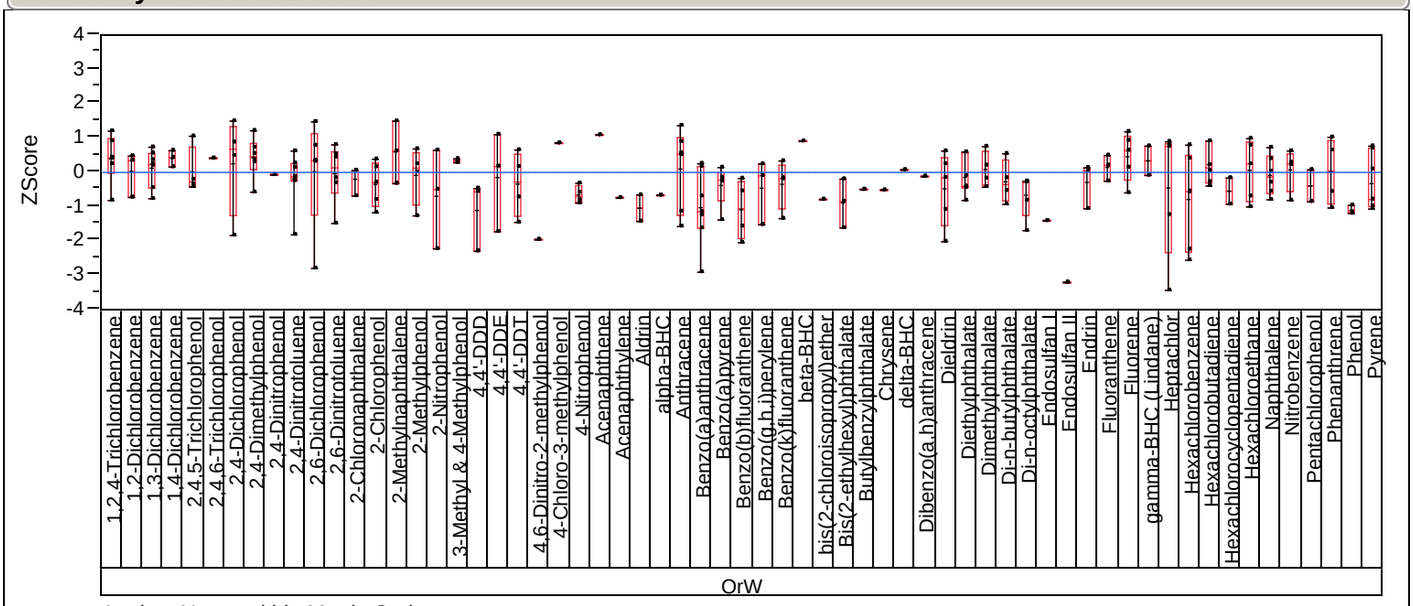


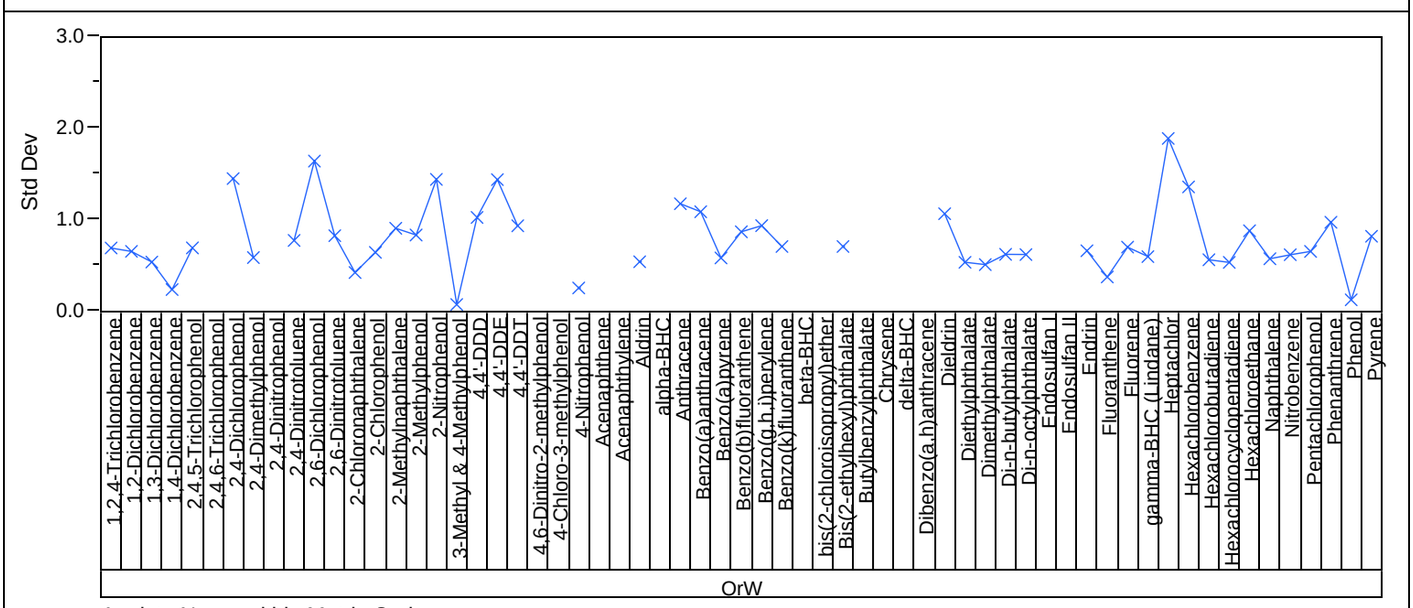
Variability Gauge Lab Code=BCLI01

Variability Chart for ZScore

Variability Gauge Lab Code=BCLI01

Variability Chart for ZScore



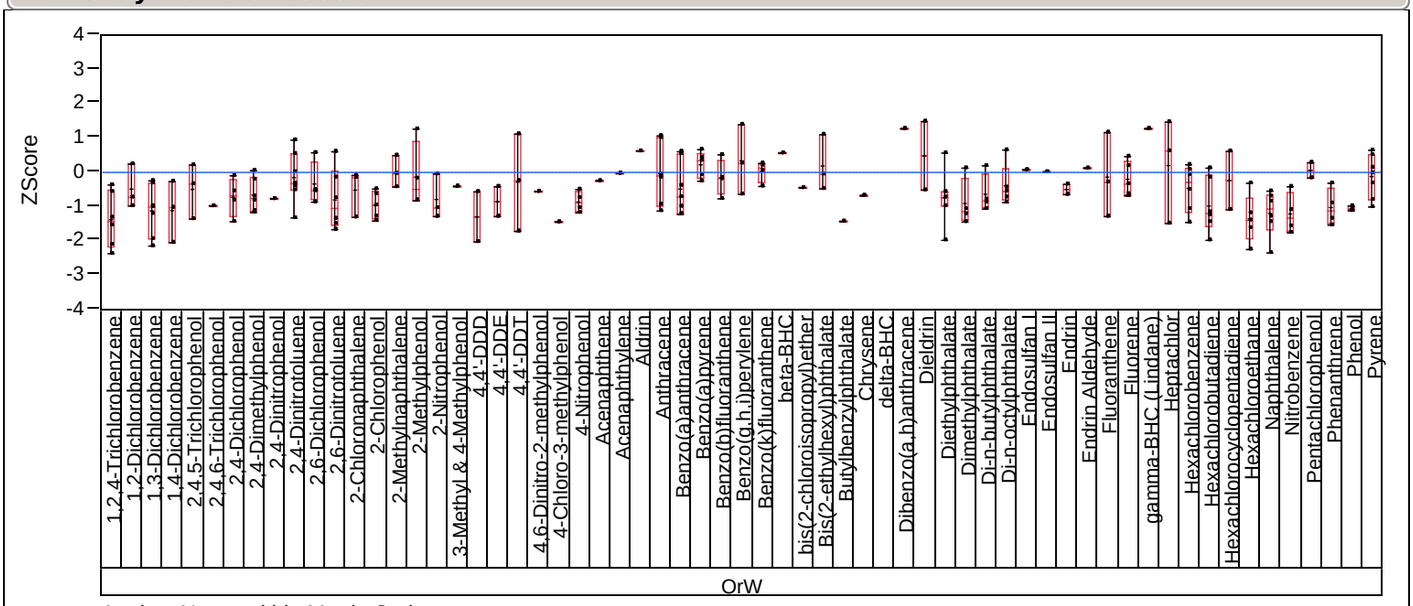


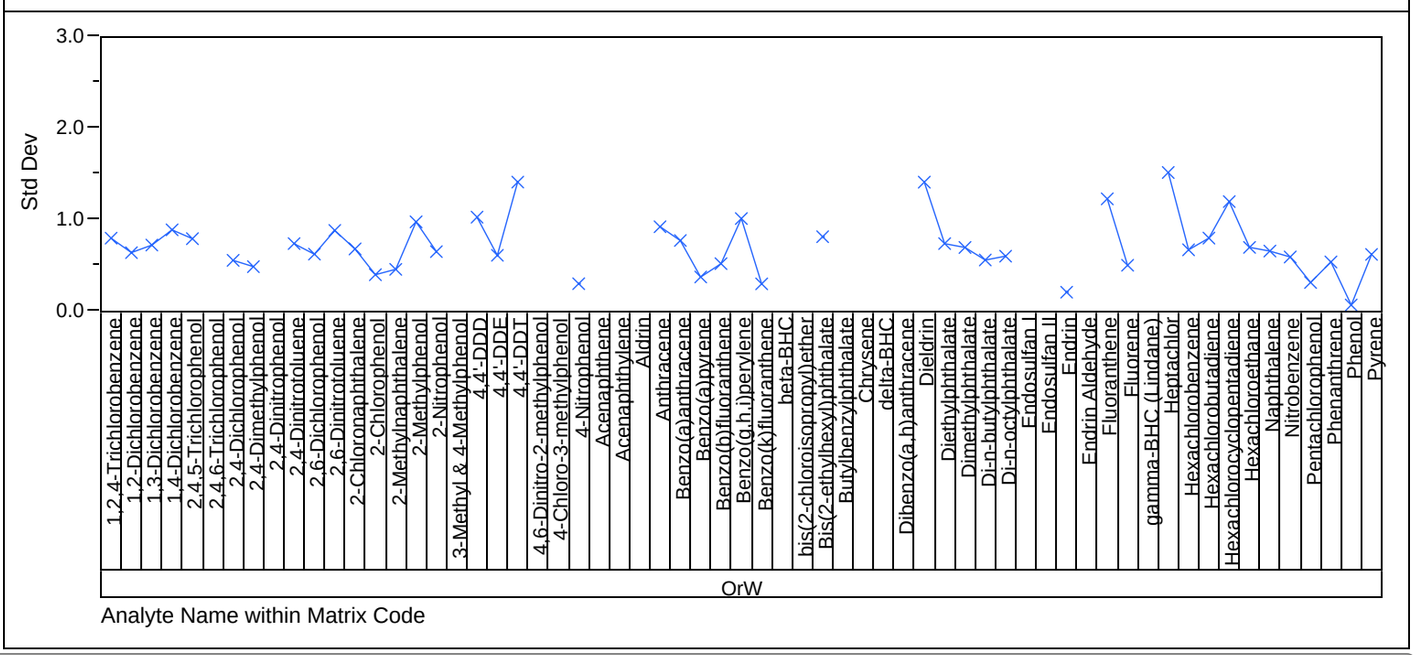
Variability Gauge Lab Code=BNEL01

Variability Chart for ZScore

Variability Gauge Lab Code=BNEL01

Variability Chart for ZScore



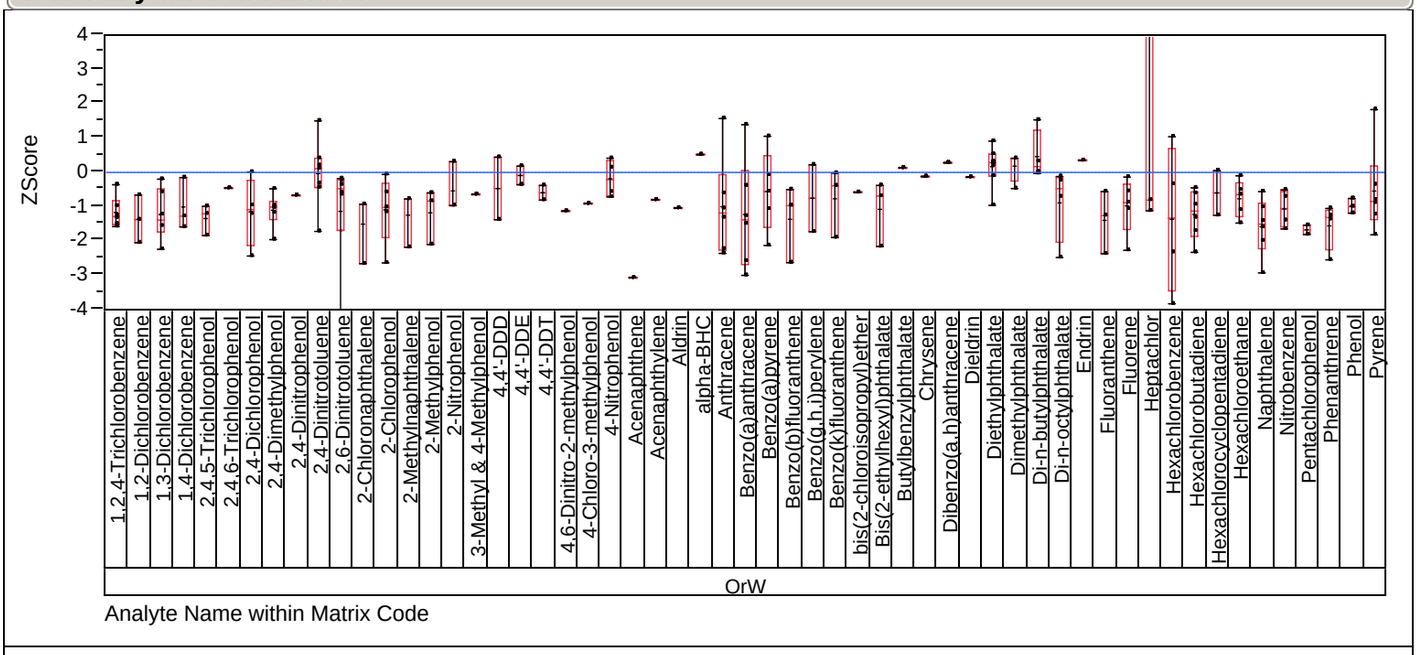


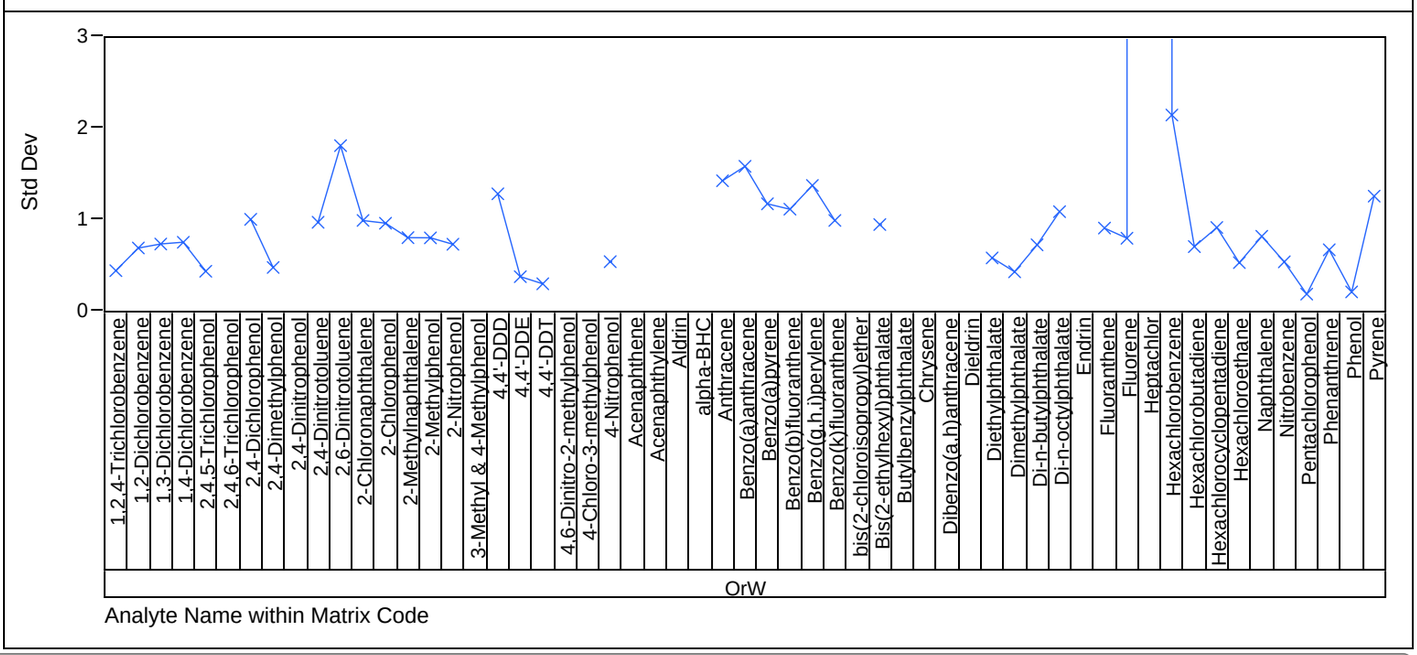
Variability Gauge Lab Code=CALN01

Variability Chart for ZScore

Variability Gauge Lab Code=CALN01

Variability Chart for ZScore



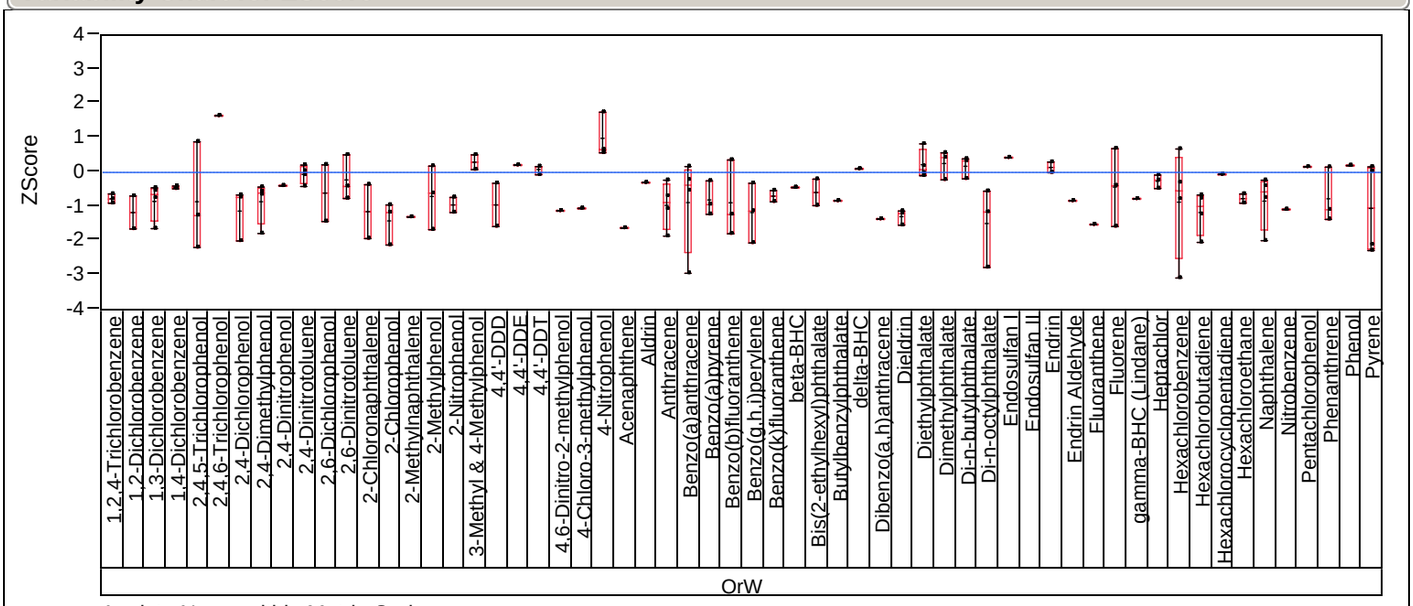


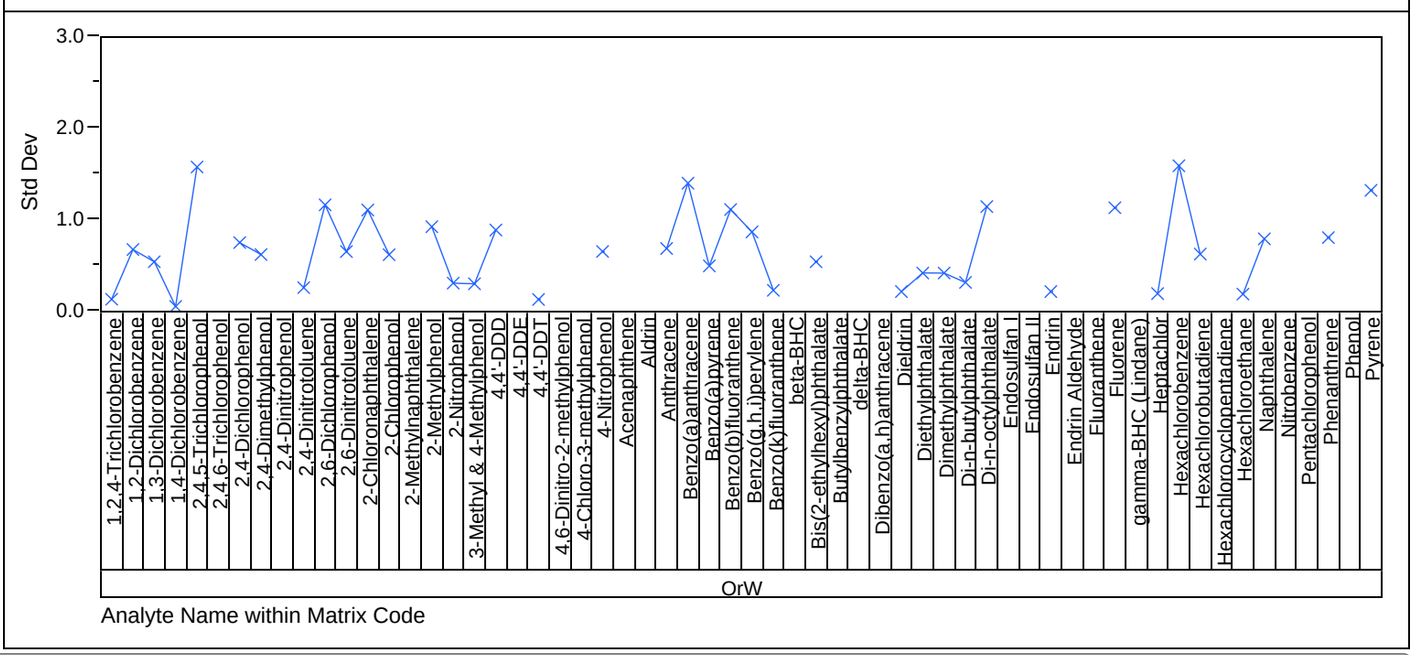
Variability Gauge Lab Code=CDHS01

Variability Chart for ZScore

Variability Gauge Lab Code=CDHS01

Variability Chart for ZScore



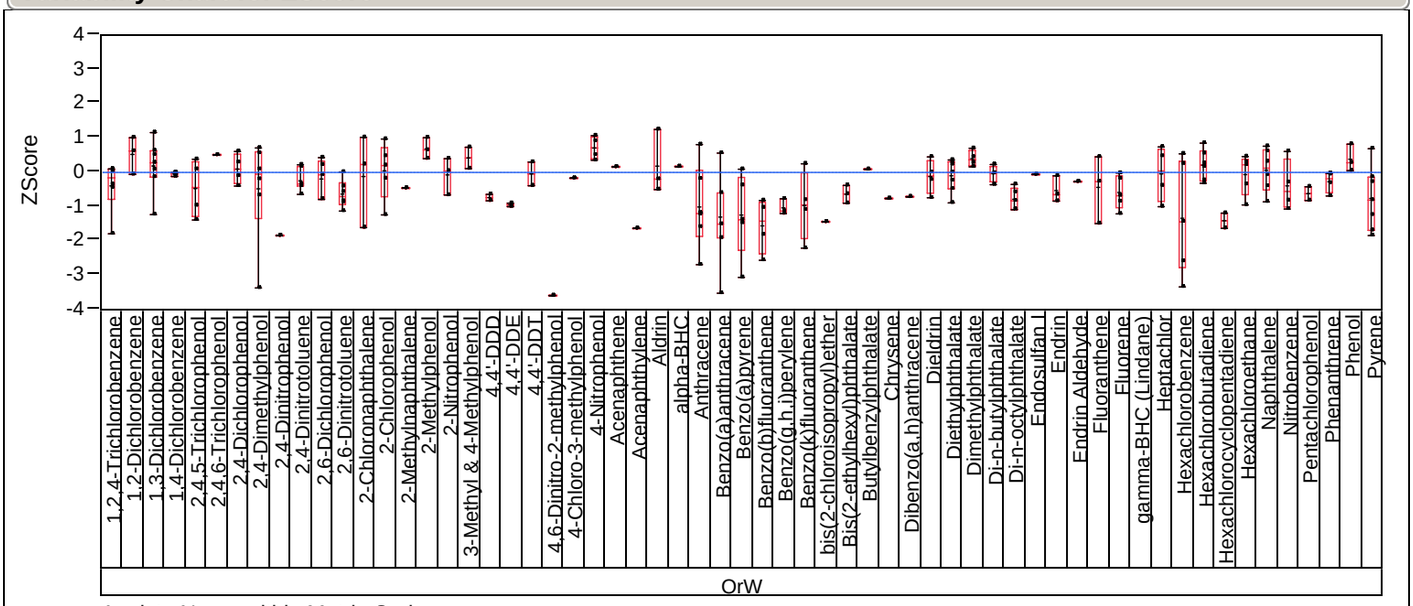


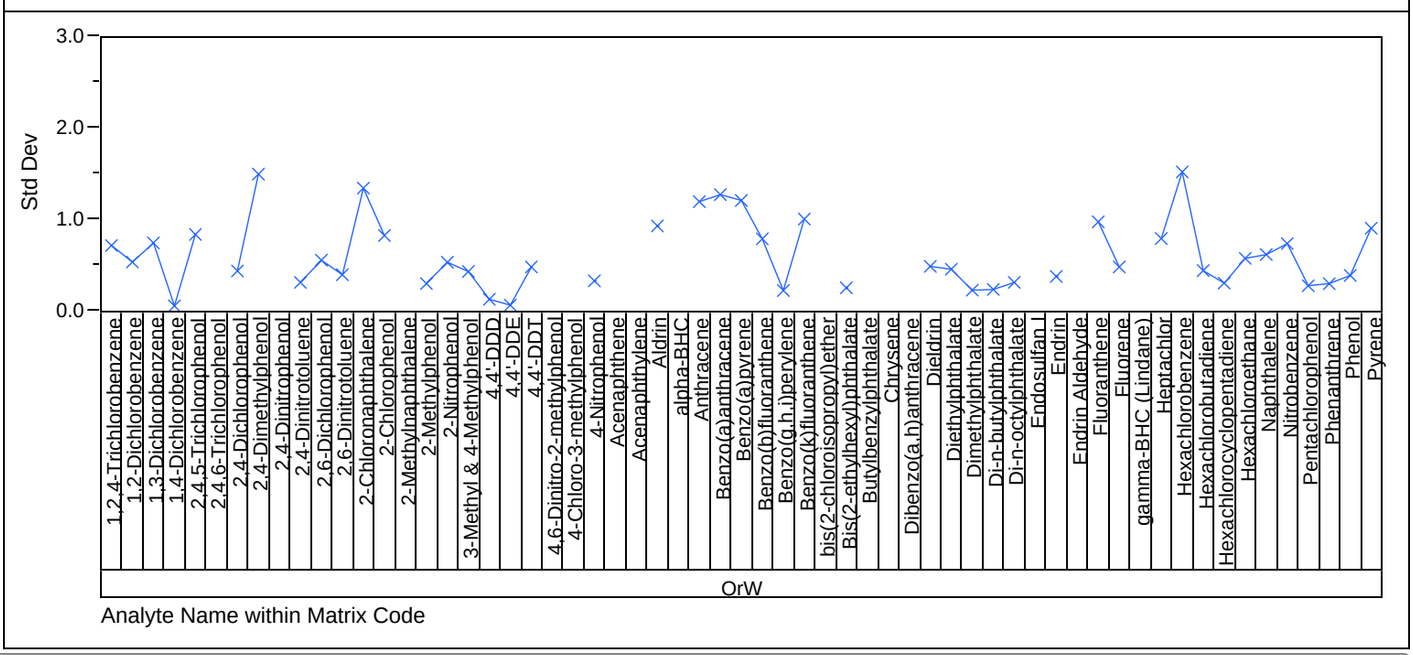
Variability Gauge Lab Code=CORE02

Variability Chart for ZScore

Variability Gauge Lab Code=CORE02

Variability Chart for ZScore



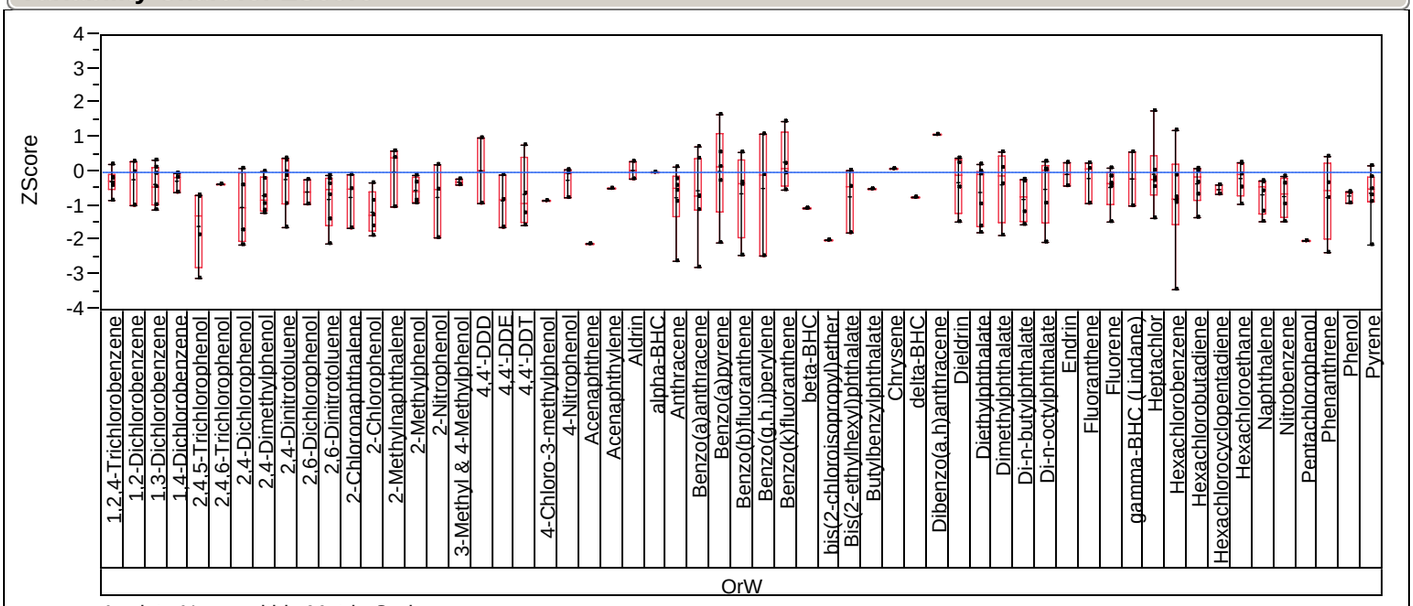


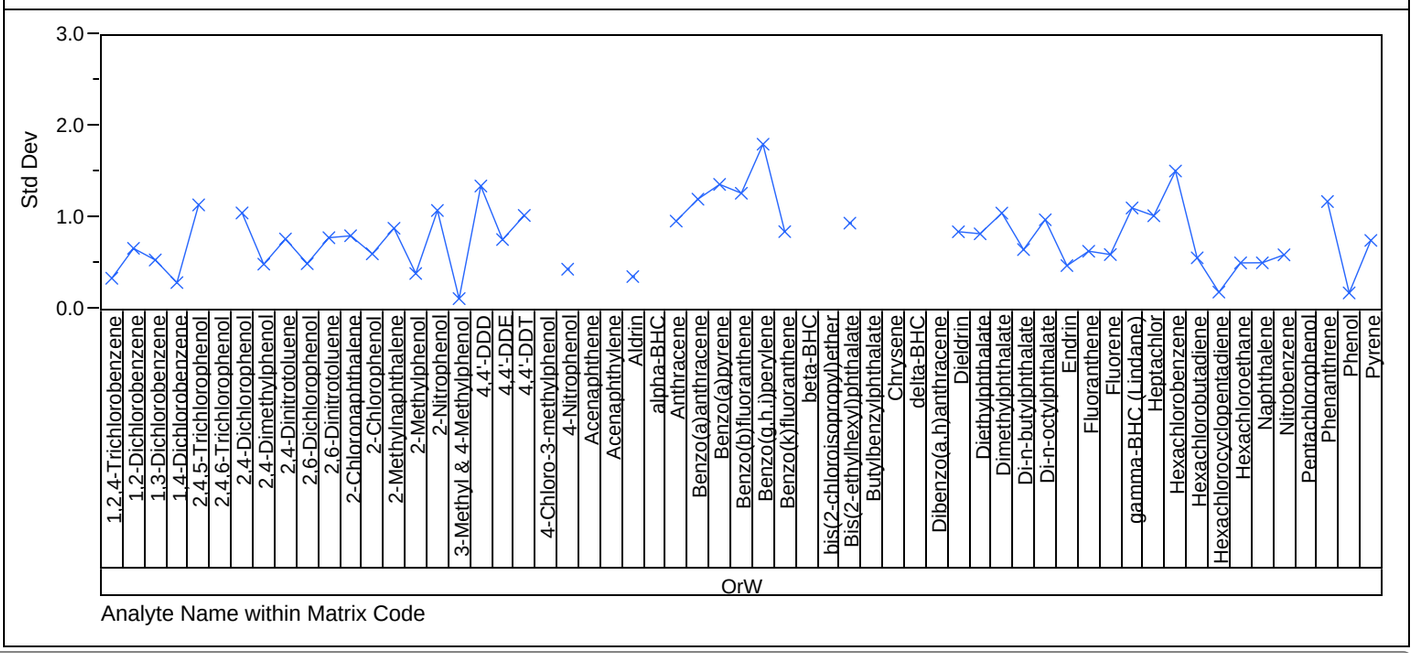
Variability Gauge Lab Code=DAFI01

Variability Chart for ZScore

Variability Gauge Lab Code=DAFI01

Variability Chart for ZScore



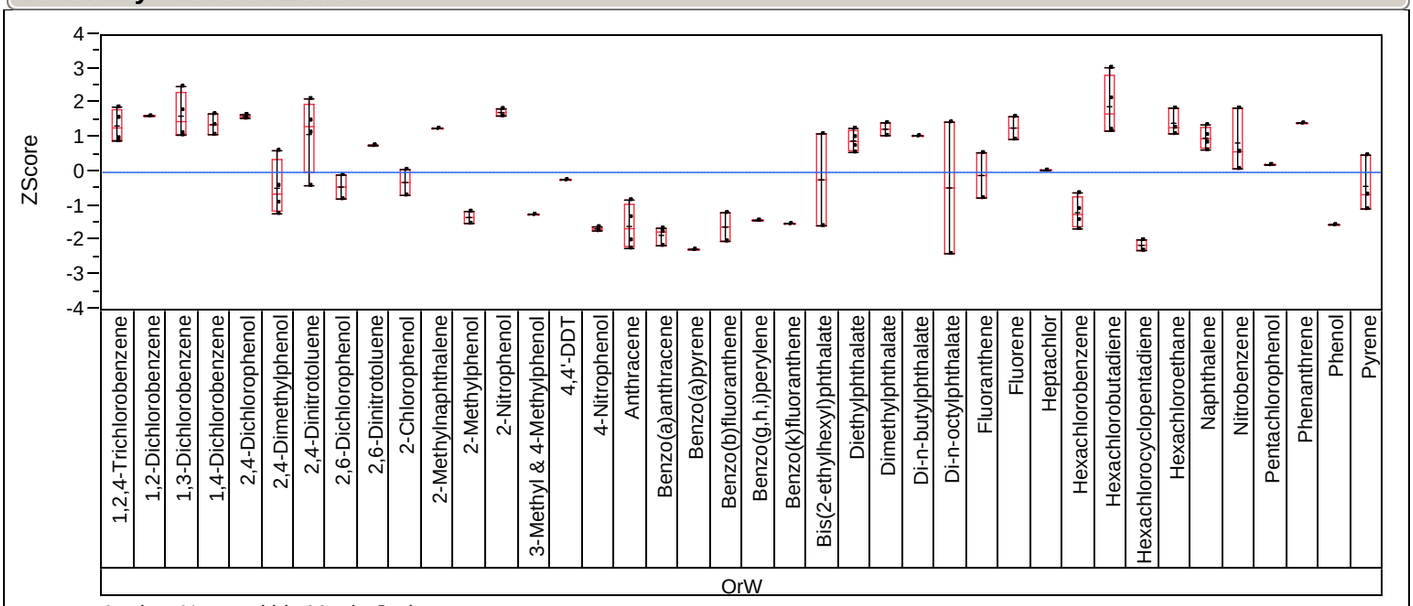


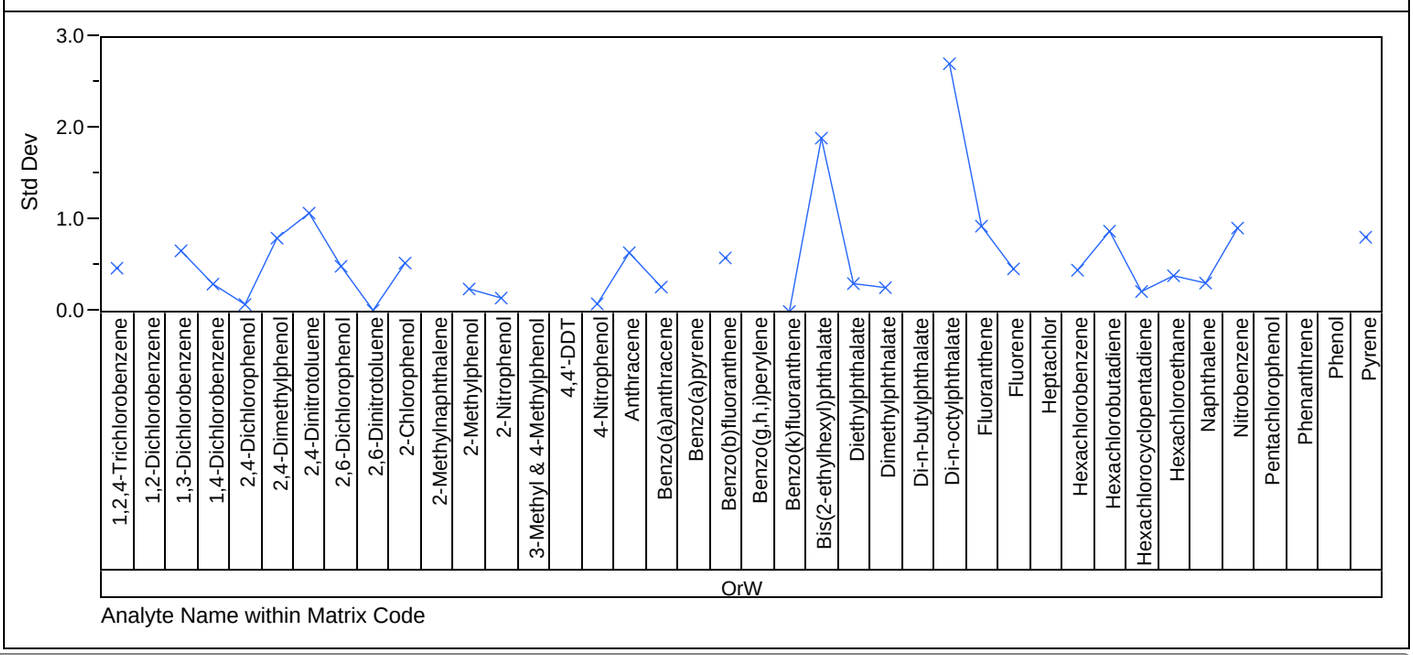
Variability Gauge Lab Code=DPAL01

Variability Chart for ZScore

Variability Gauge Lab Code=DPAL01

Variability Chart for ZScore



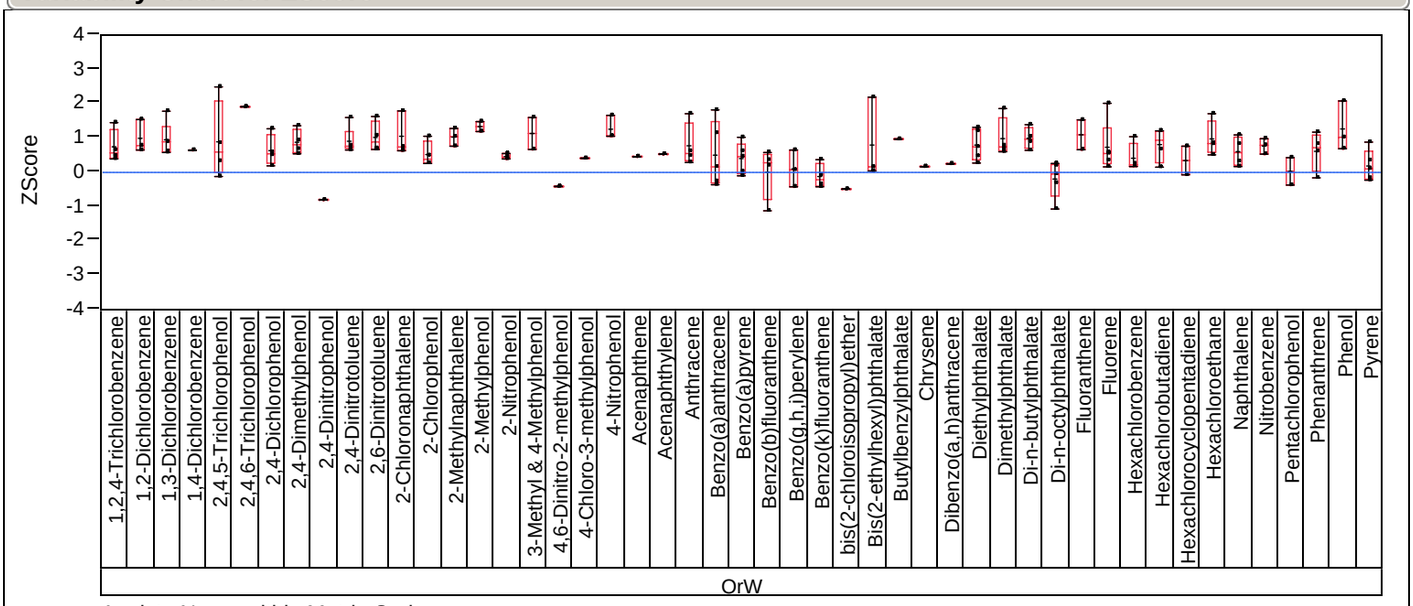


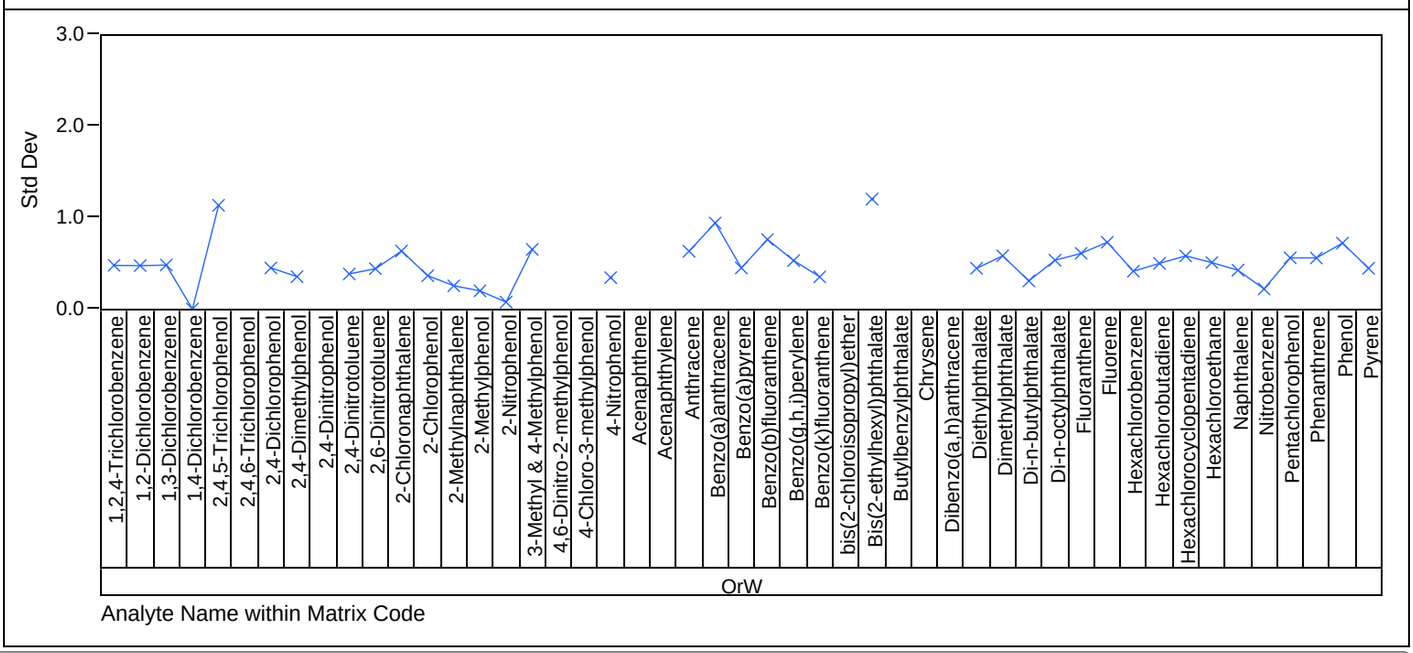
Variability Gauge Lab Code=EMAX01

Variability Chart for ZScore

Variability Gauge Lab Code=EMAX01

Variability Chart for ZScore



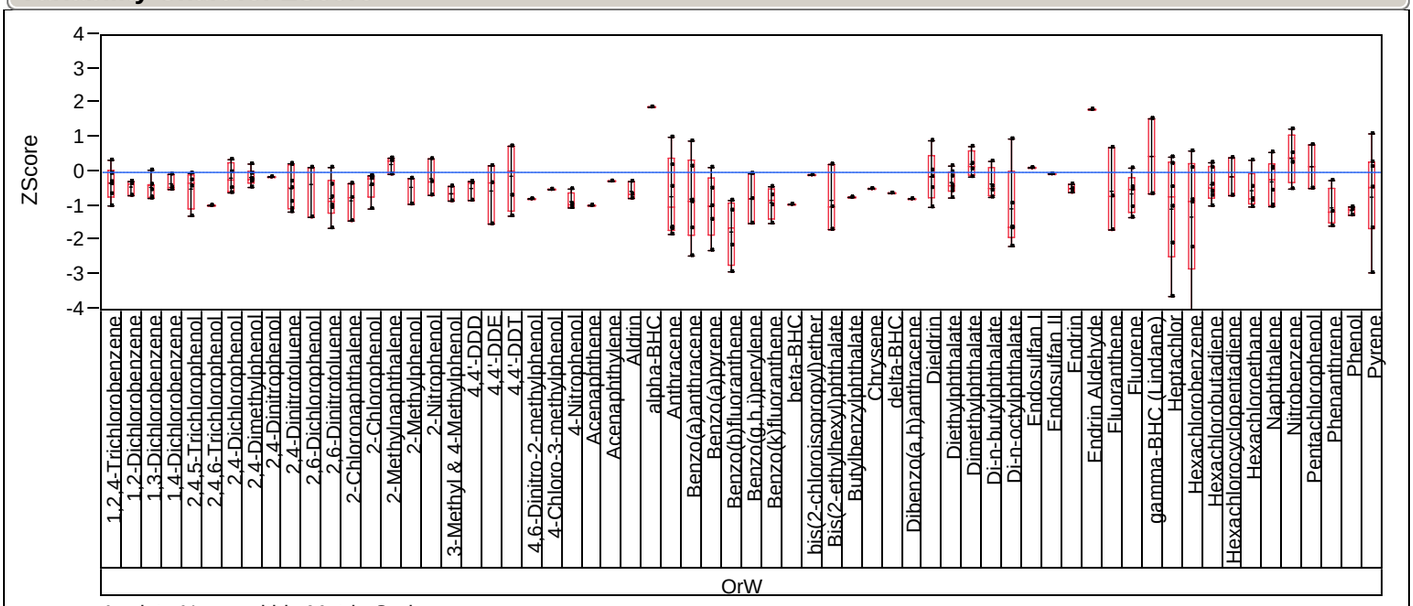


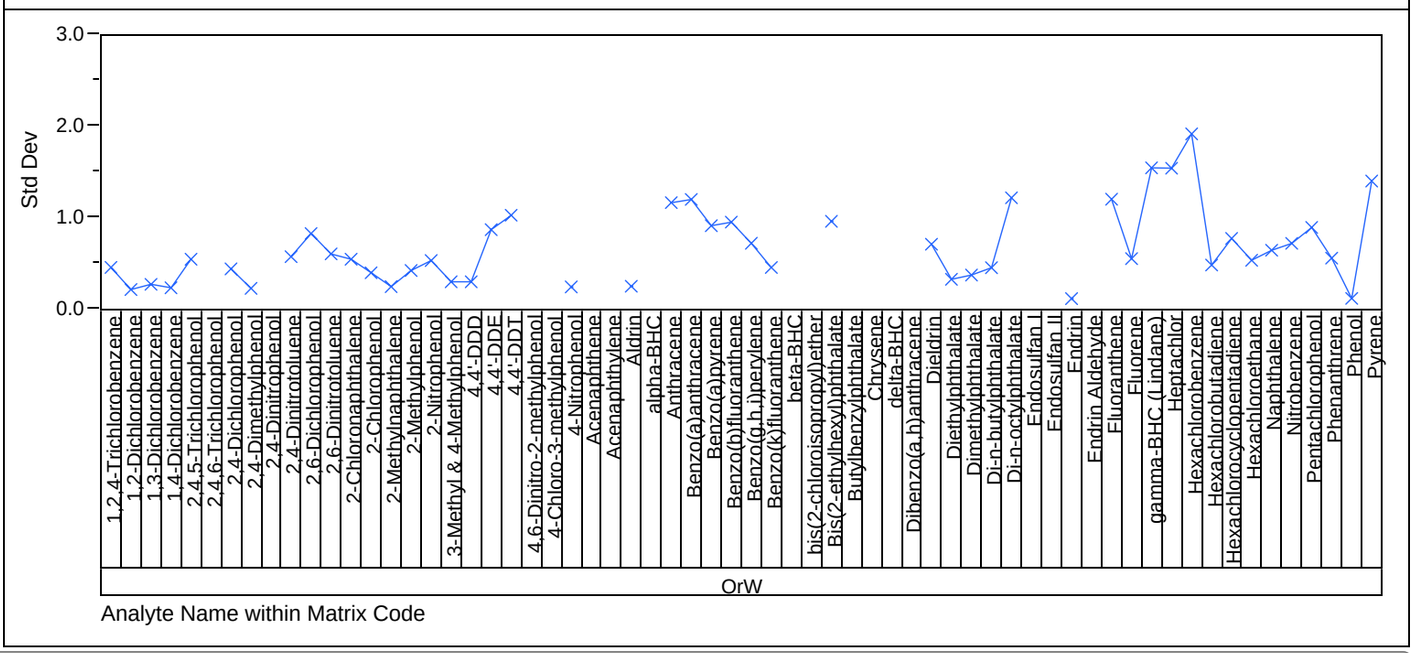
Variability Gauge Lab Code=GENE01

Variability Chart for ZScore

Variability Gauge Lab Code=GENE01

Variability Chart for ZScore



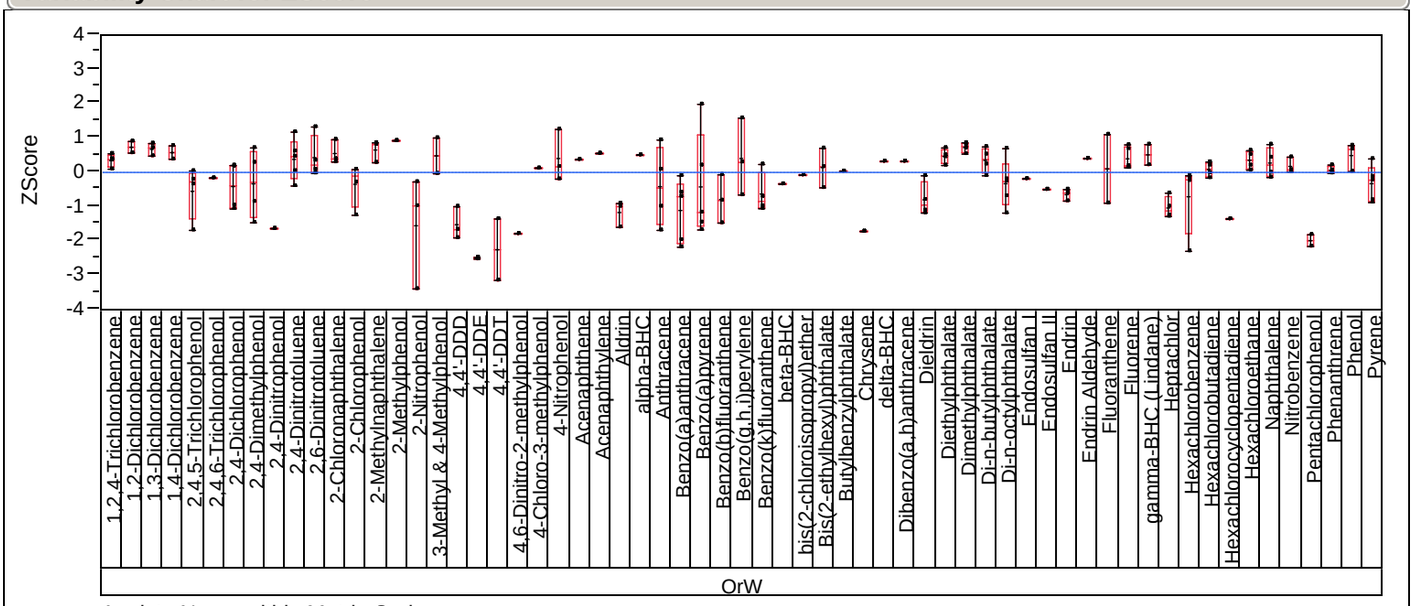


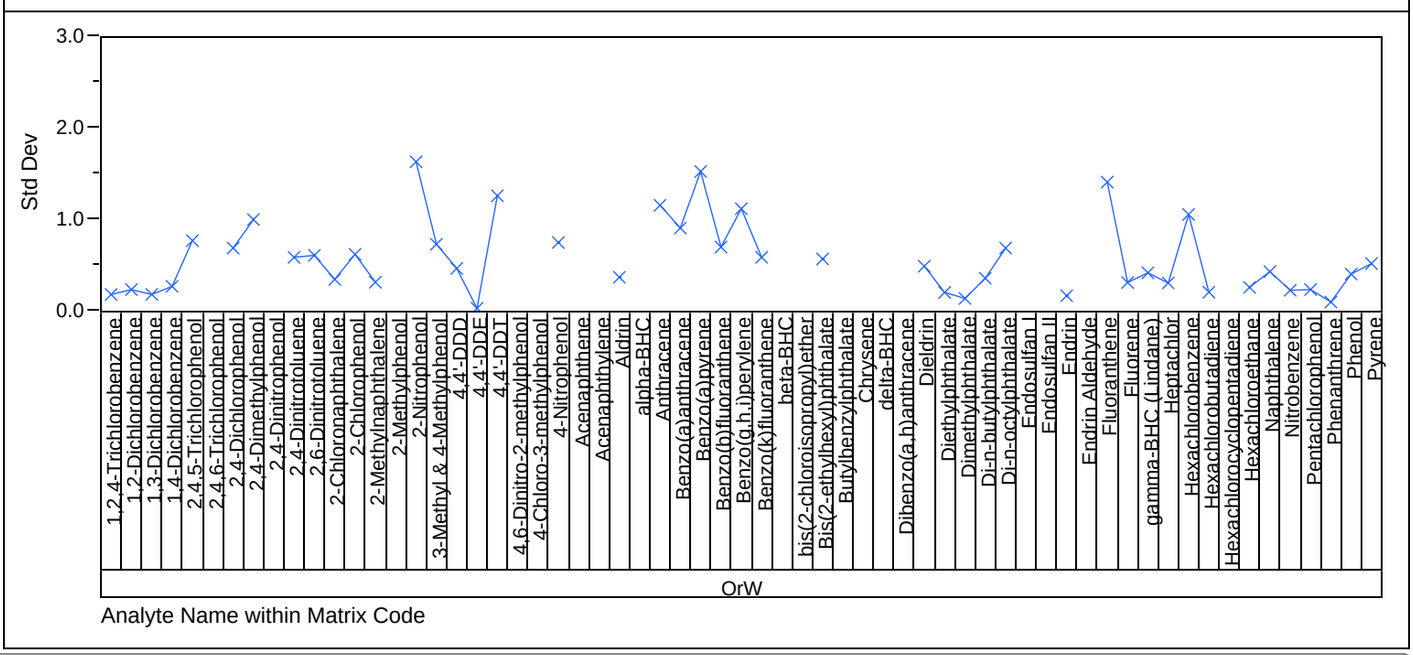
Variability Gauge Lab Code=GPLP01

Variability Chart for ZScore

Variability Gauge Lab Code=GPLP01

Variability Chart for ZScore



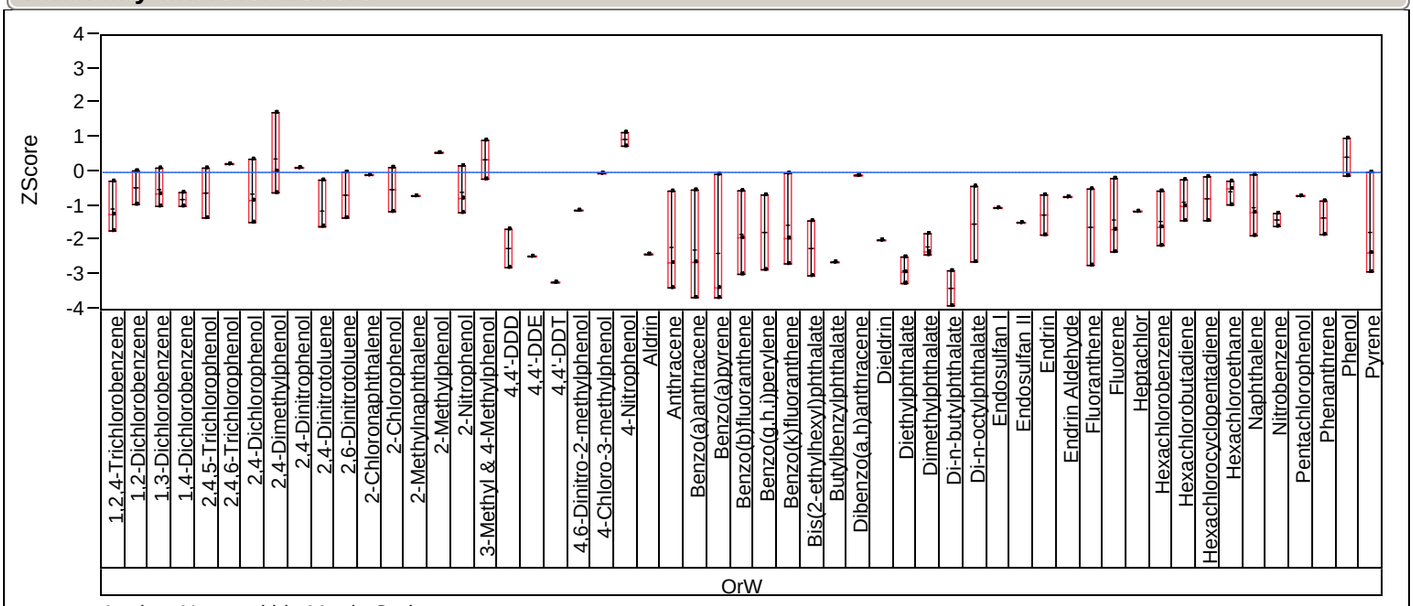


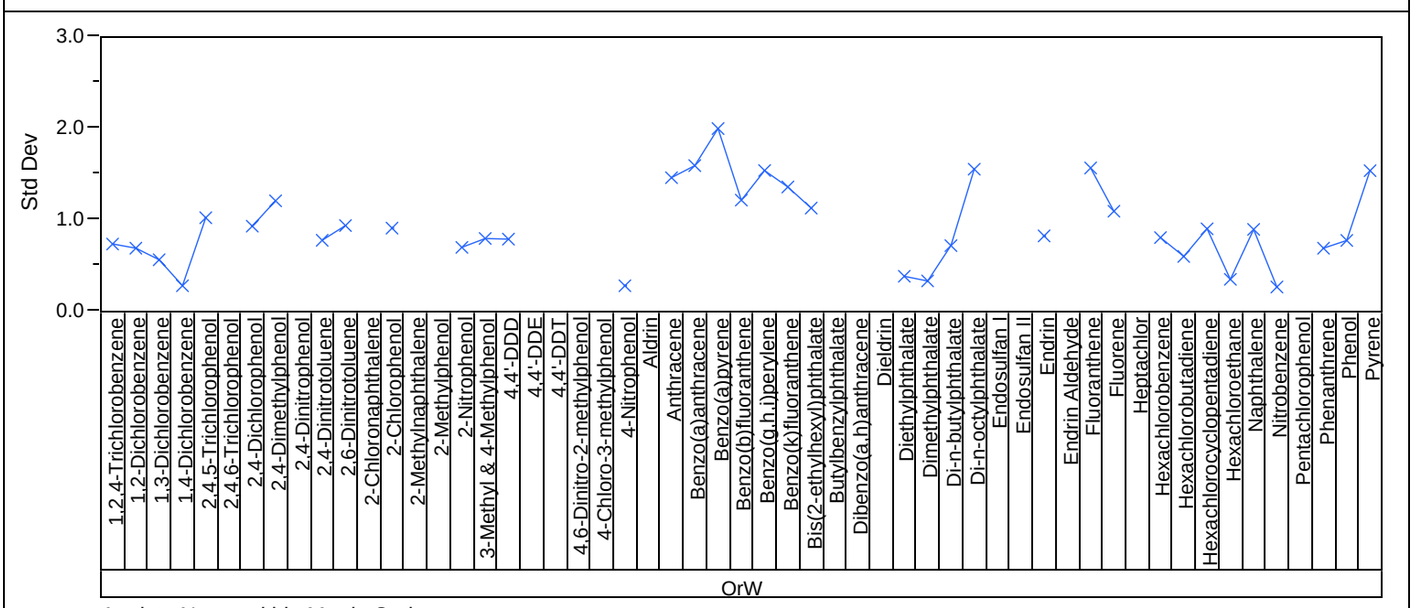
Variability Gauge Lab Code=GROW01

Variability Chart for ZScore

Variability Gauge Lab Code=GROW01

Variability Chart for ZScore



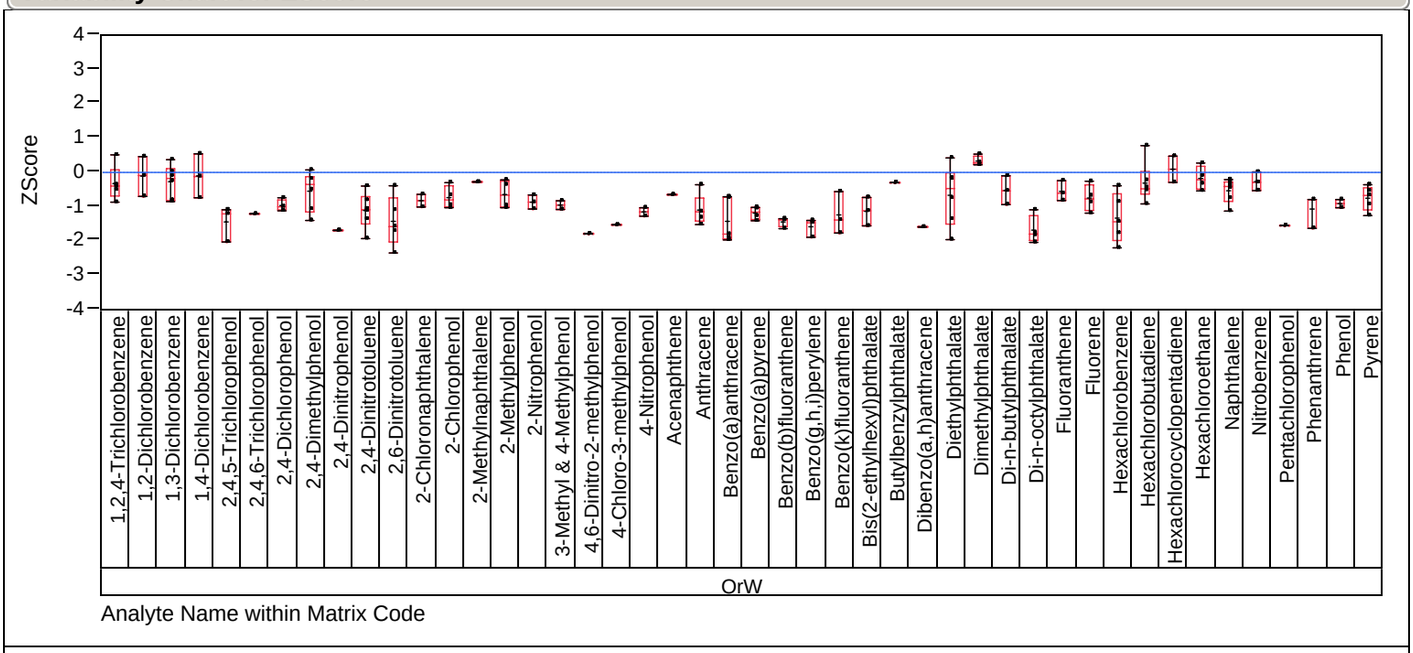


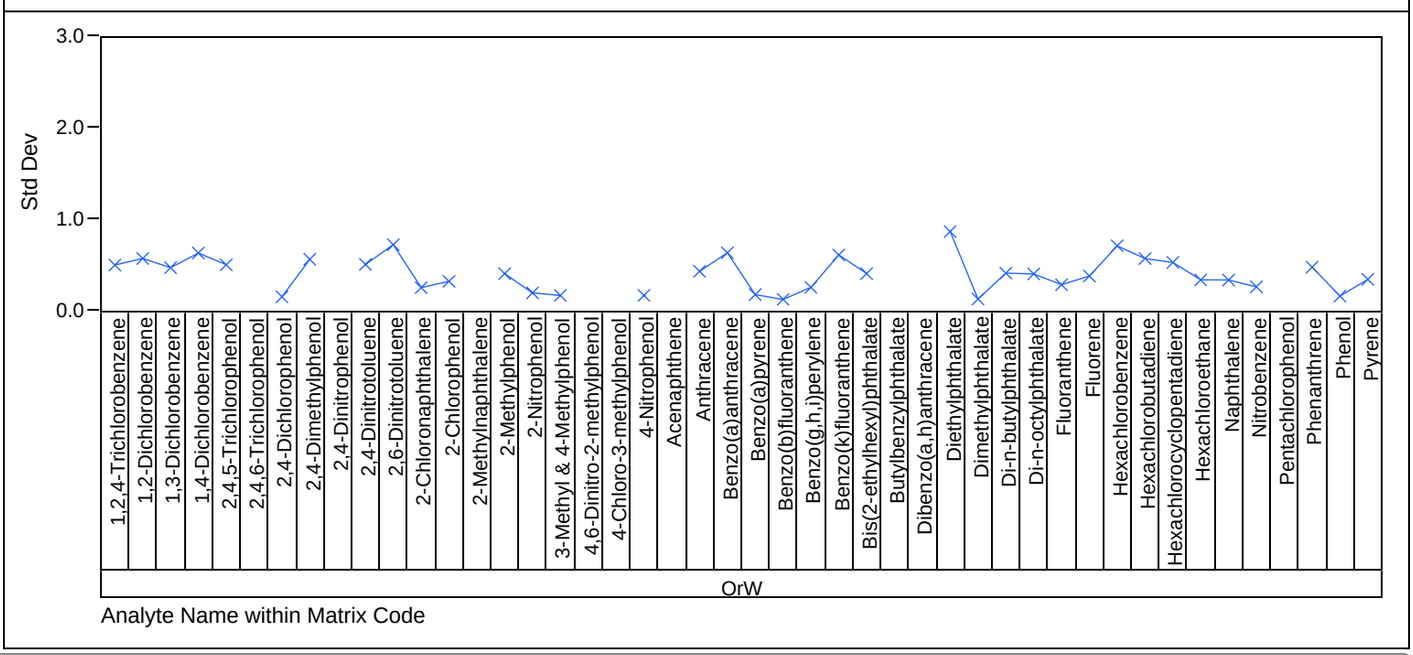
Variability Gauge Lab Code=LOCK01

Variability Chart for ZScore

Variability Gauge Lab Code=LOCK01

Variability Chart for ZScore



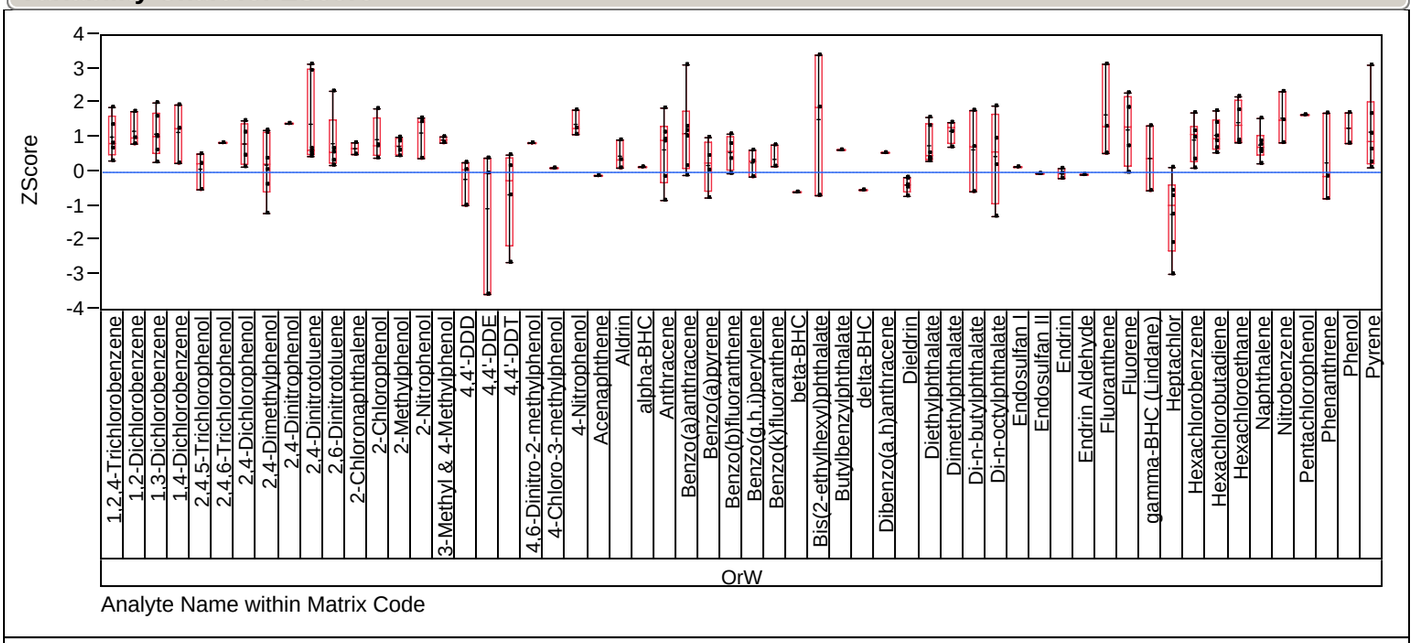


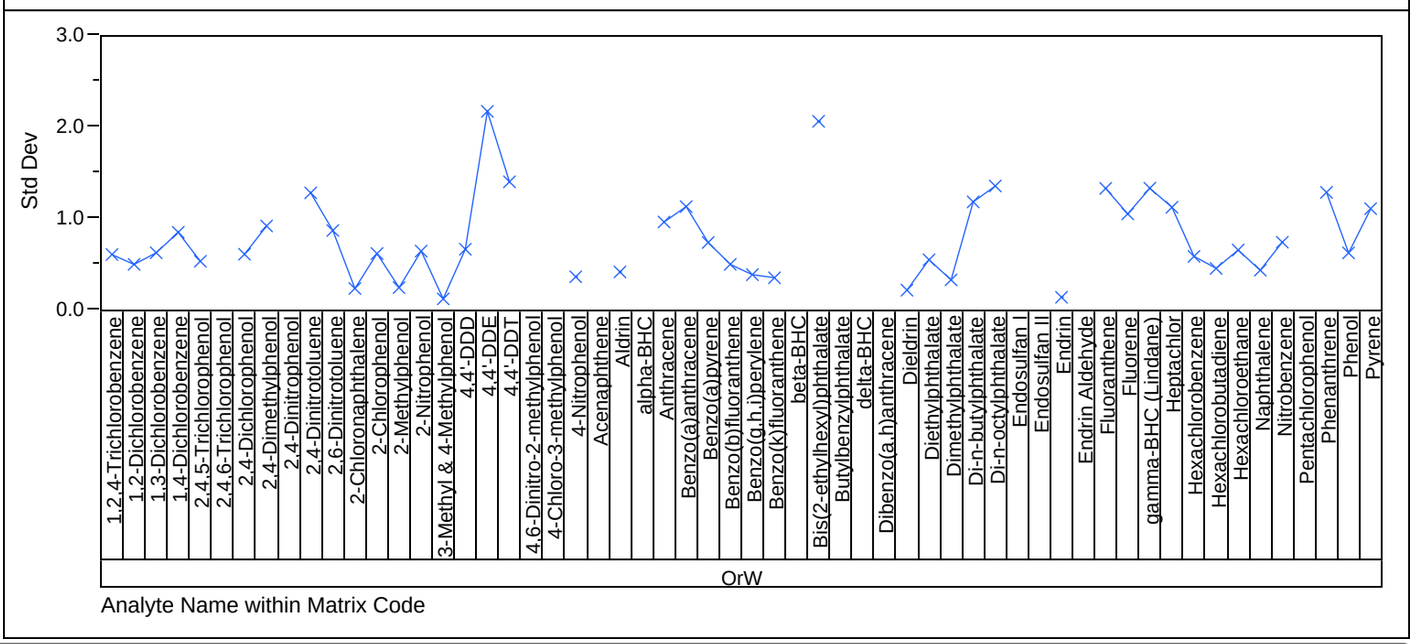
Variability Gauge Lab Code=MART01

Variability Chart for ZScore

Variability Gauge Lab Code=MART01

Variability Chart for ZScore



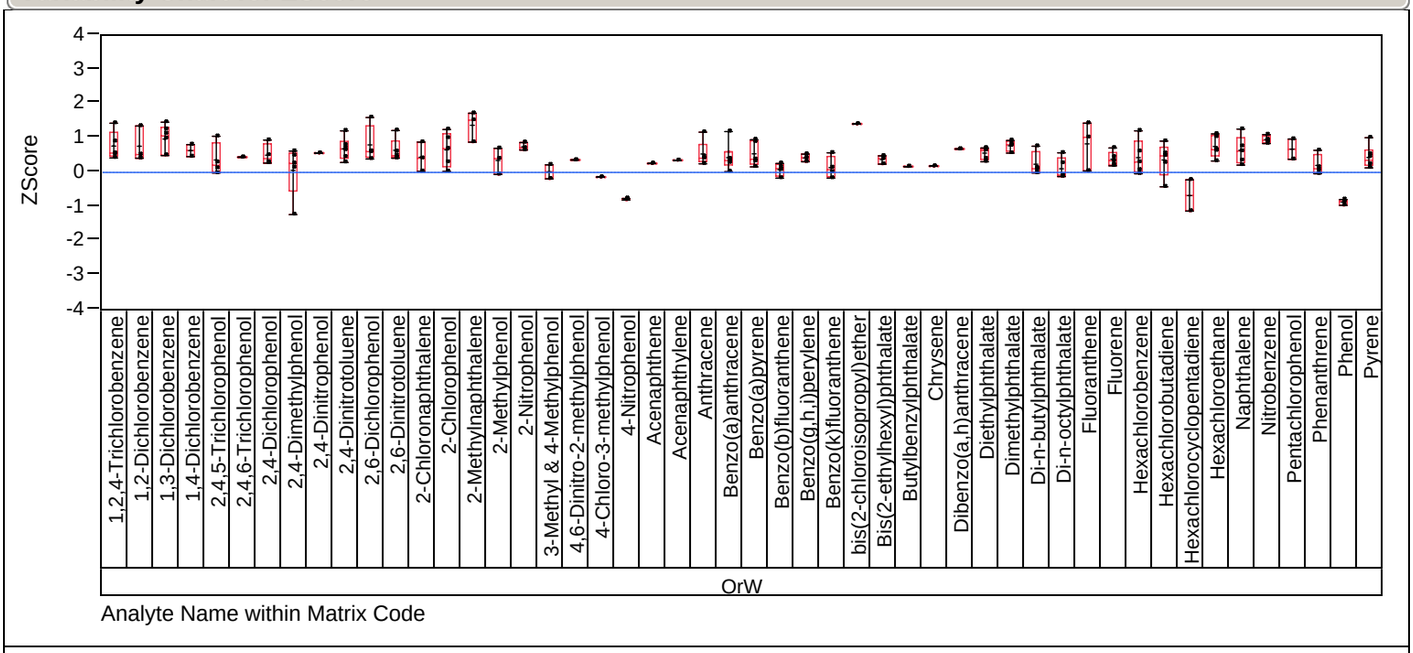


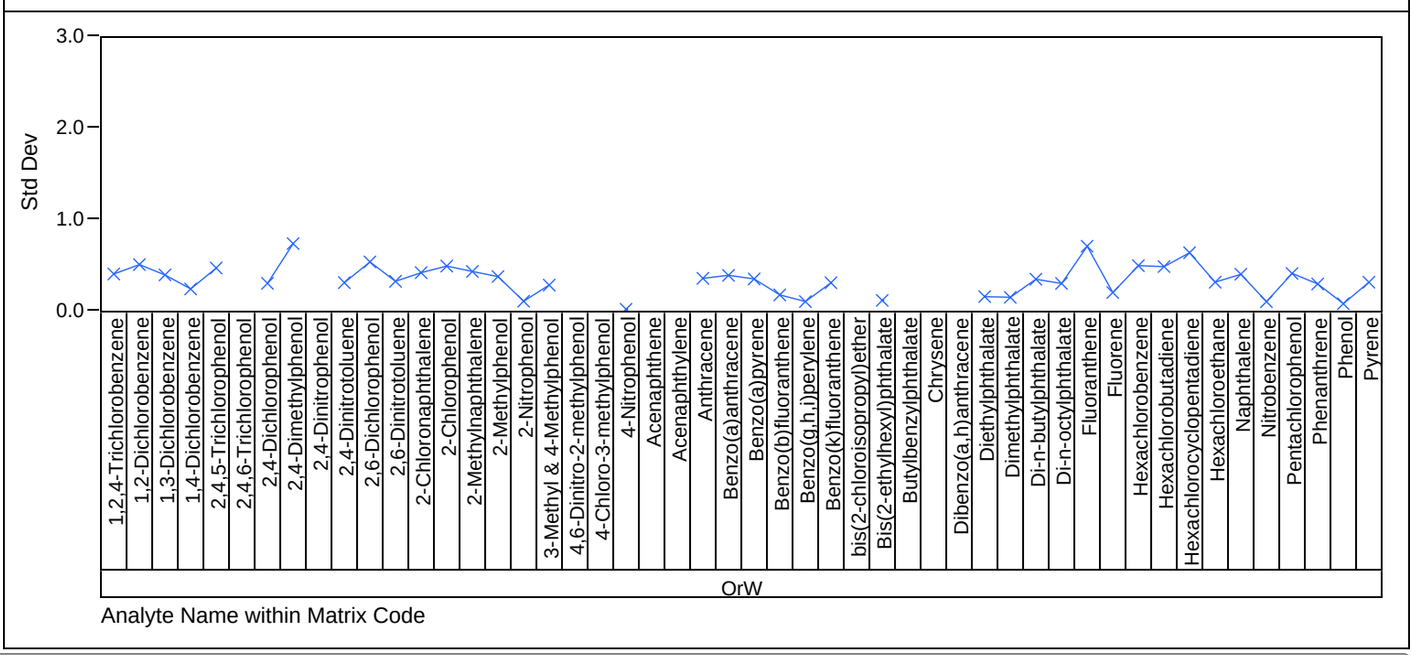
Variability Gauge Lab Code=MART02

Variability Chart for ZScore

Variability Gauge Lab Code=MART02

Variability Chart for ZScore



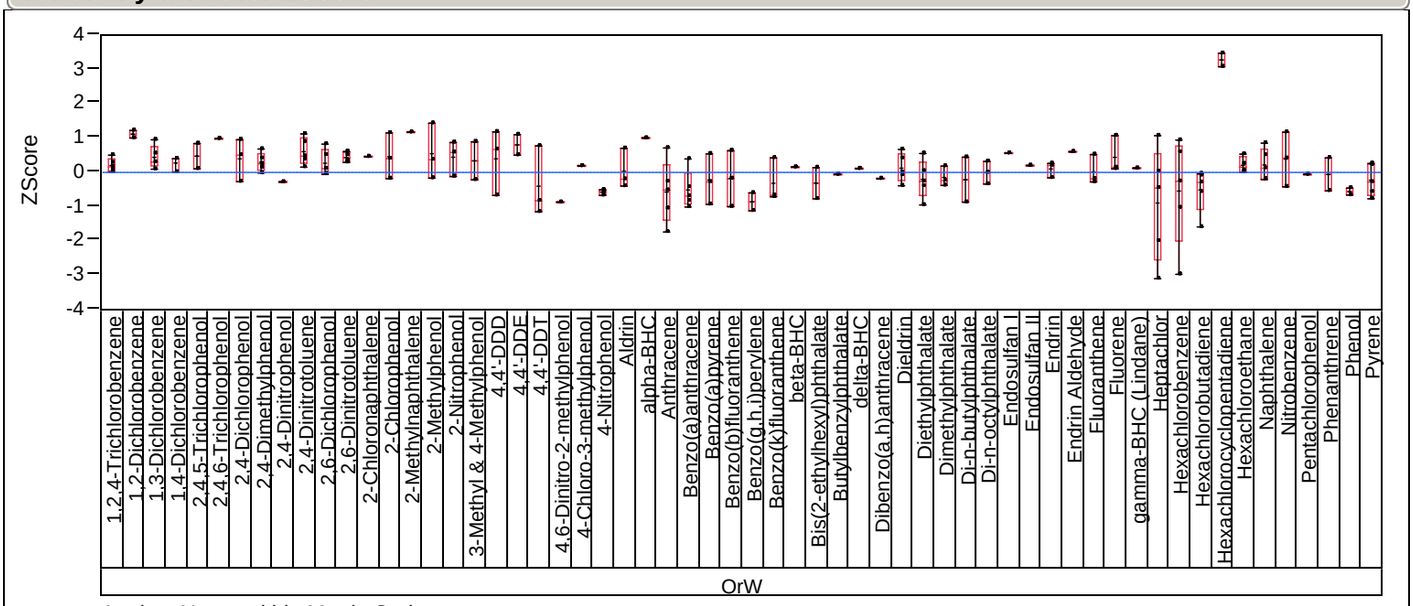


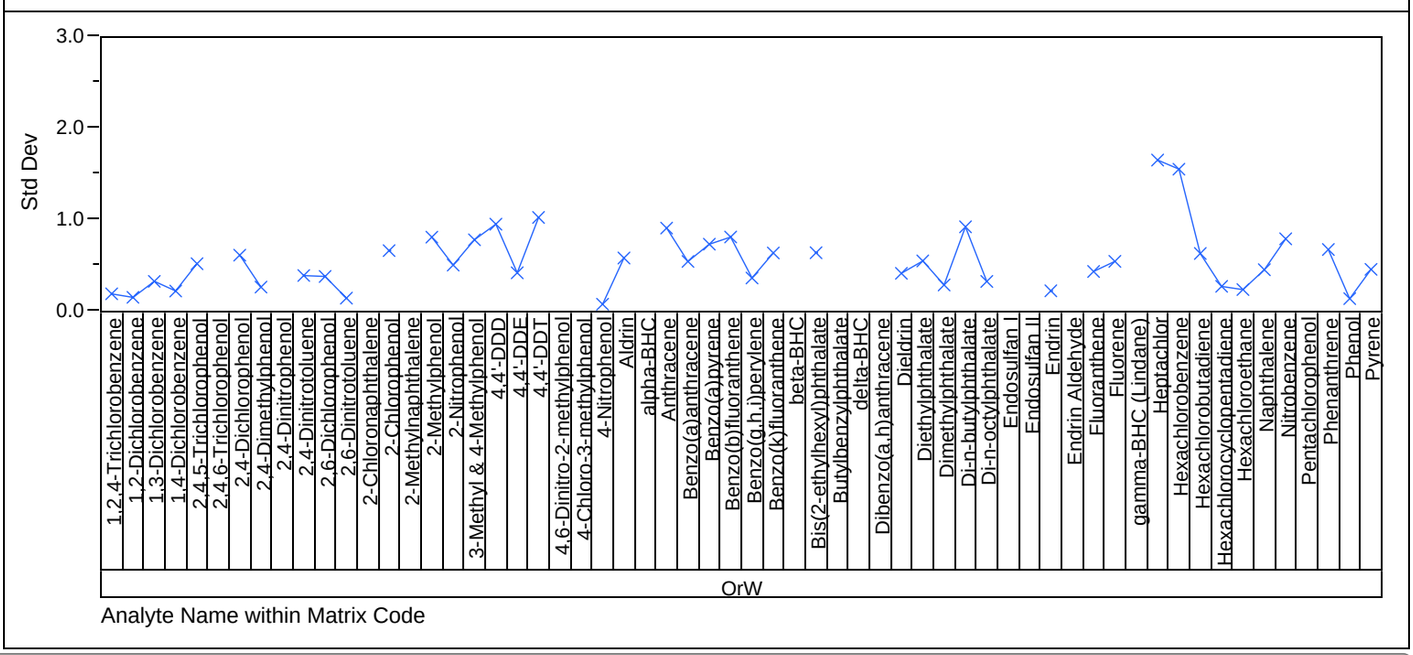
Variability Gauge Lab Code=NARL01

Variability Chart for ZScore

Variability Gauge Lab Code=NARL01

Variability Chart for ZScore



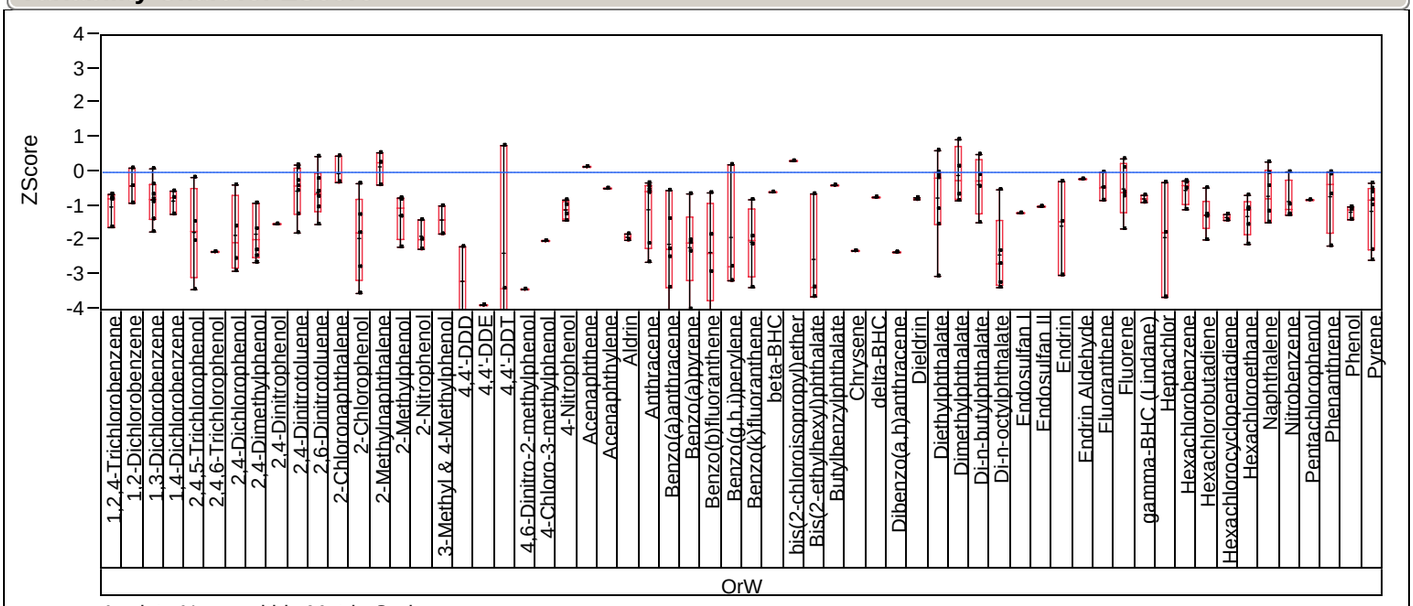


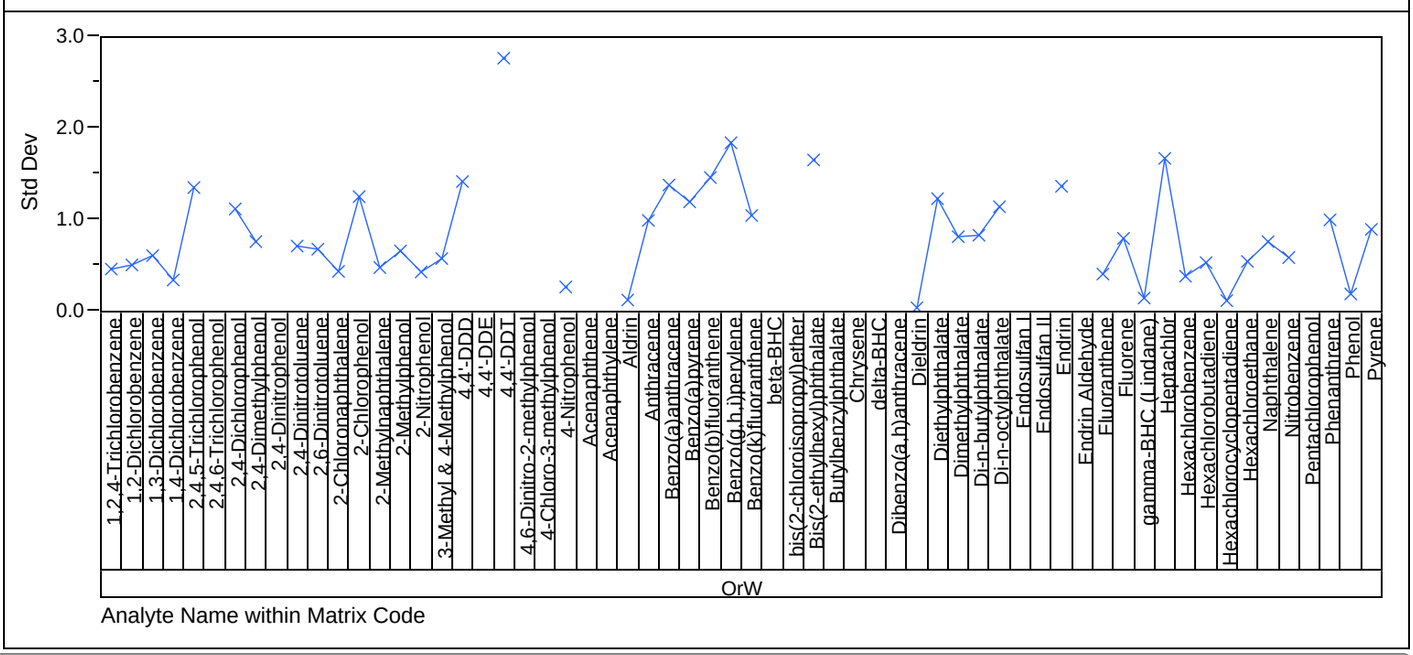
Variability Gauge Lab Code=NMLA01

Variability Chart for ZScore

Variability Gauge Lab Code=NMLA01

Variability Chart for ZScore



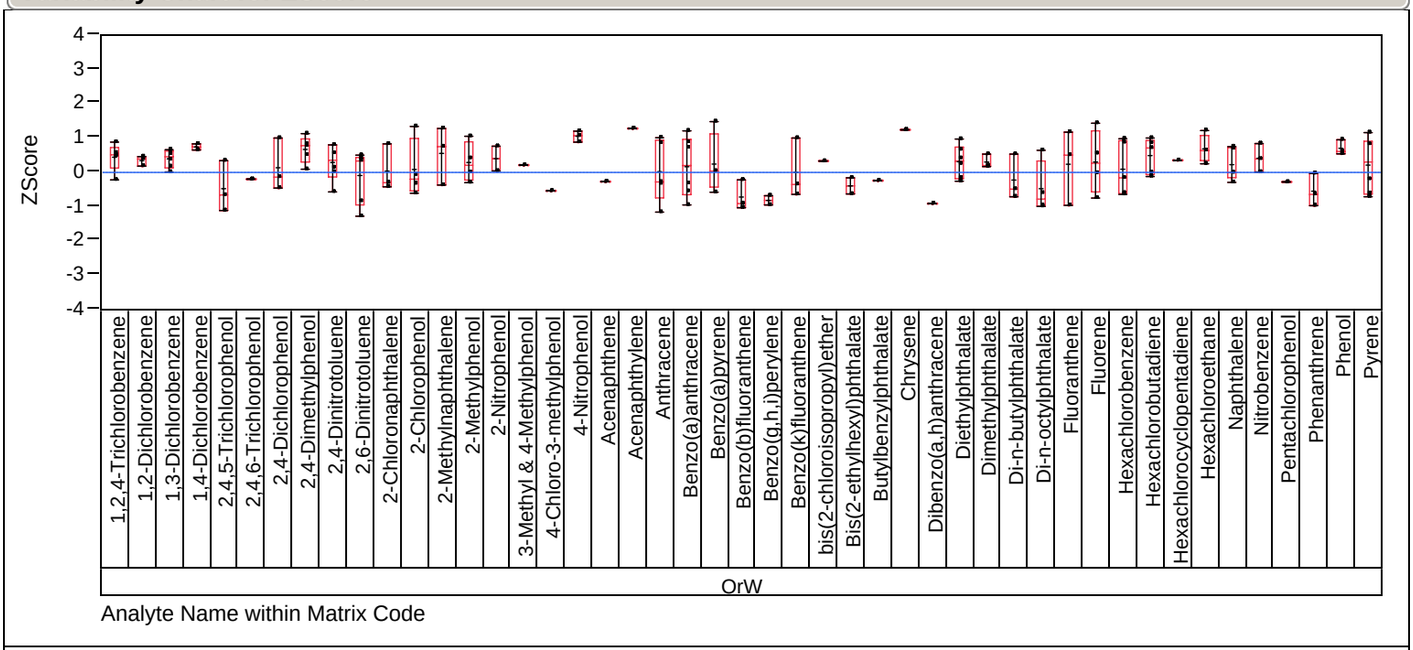


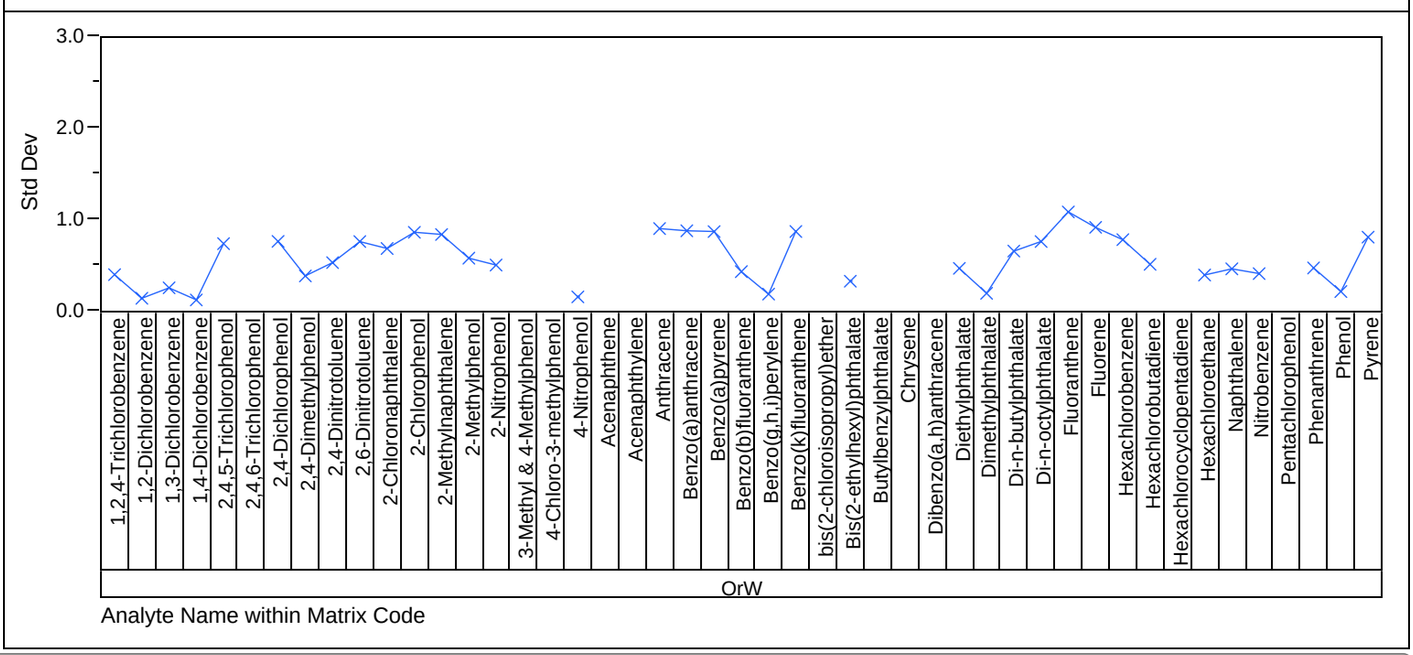
Variability Gauge Lab Code=OBGL01

Variability Chart for ZScore

Variability Gauge Lab Code=OBGL01

Variability Chart for ZScore



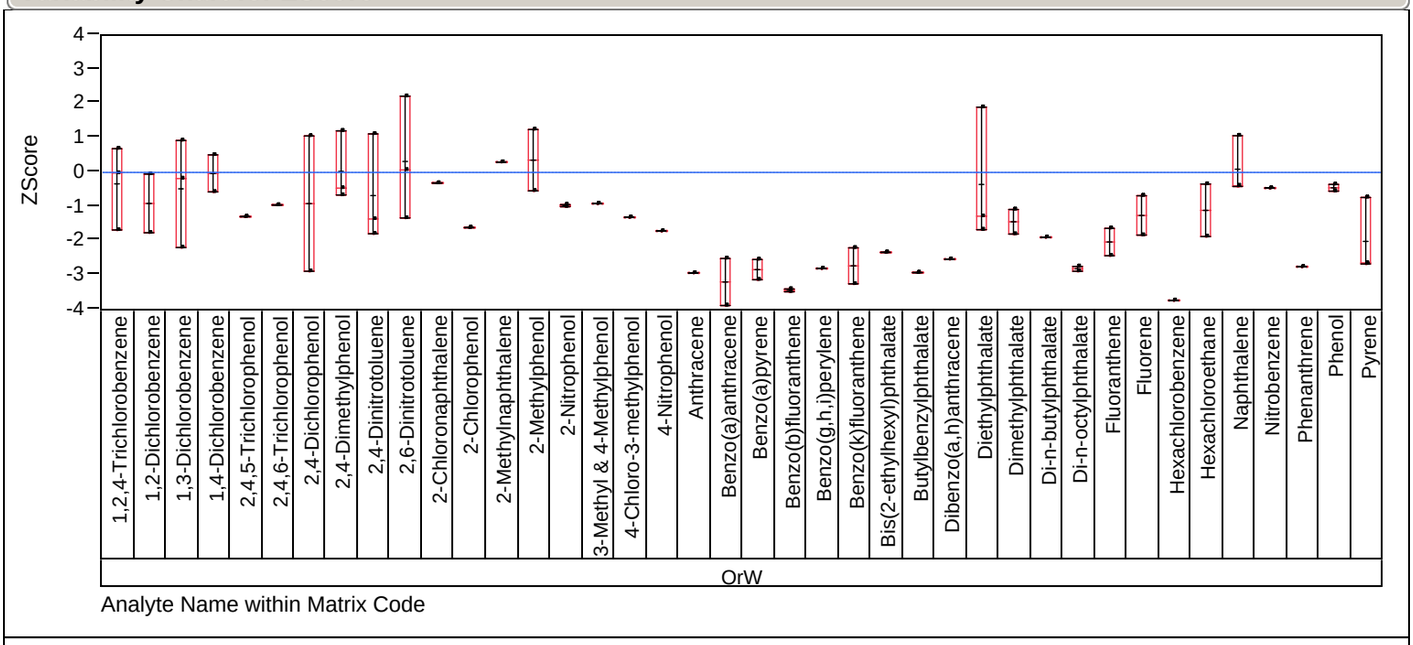


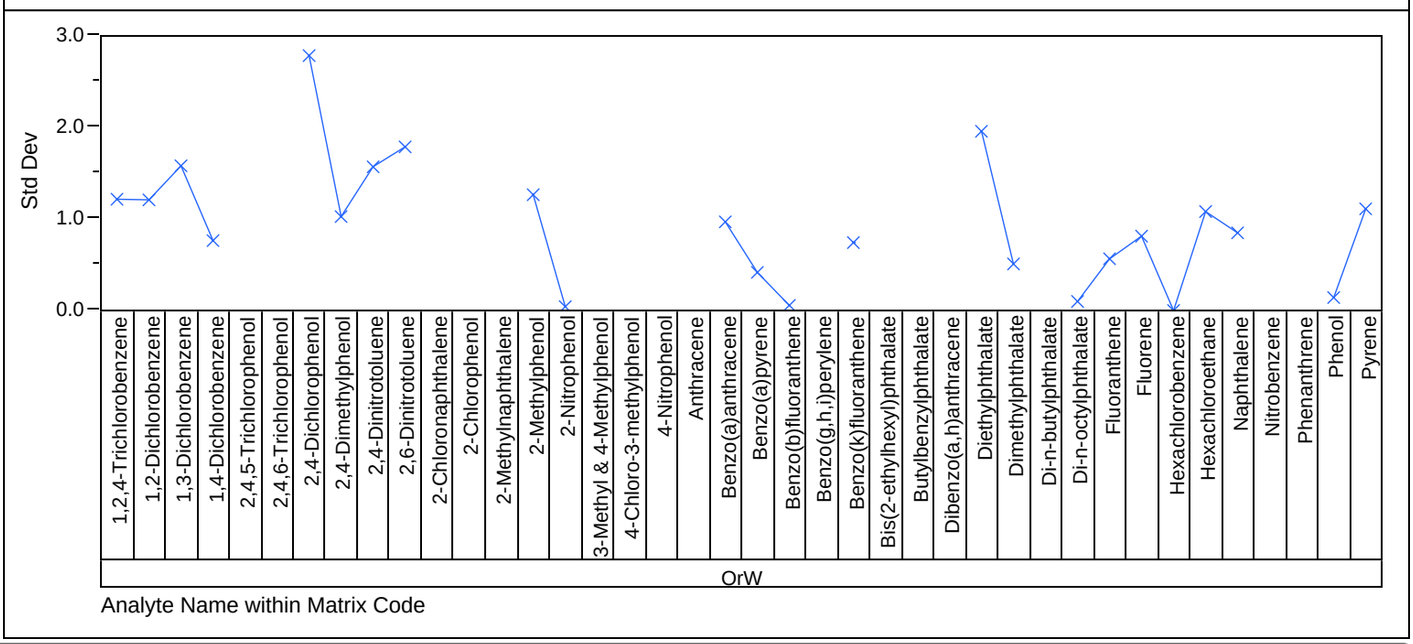
Variability Gauge Lab Code=OTLI01

Variability Chart for ZScore

Variability Gauge Lab Code=OTLI01

Variability Chart for ZScore



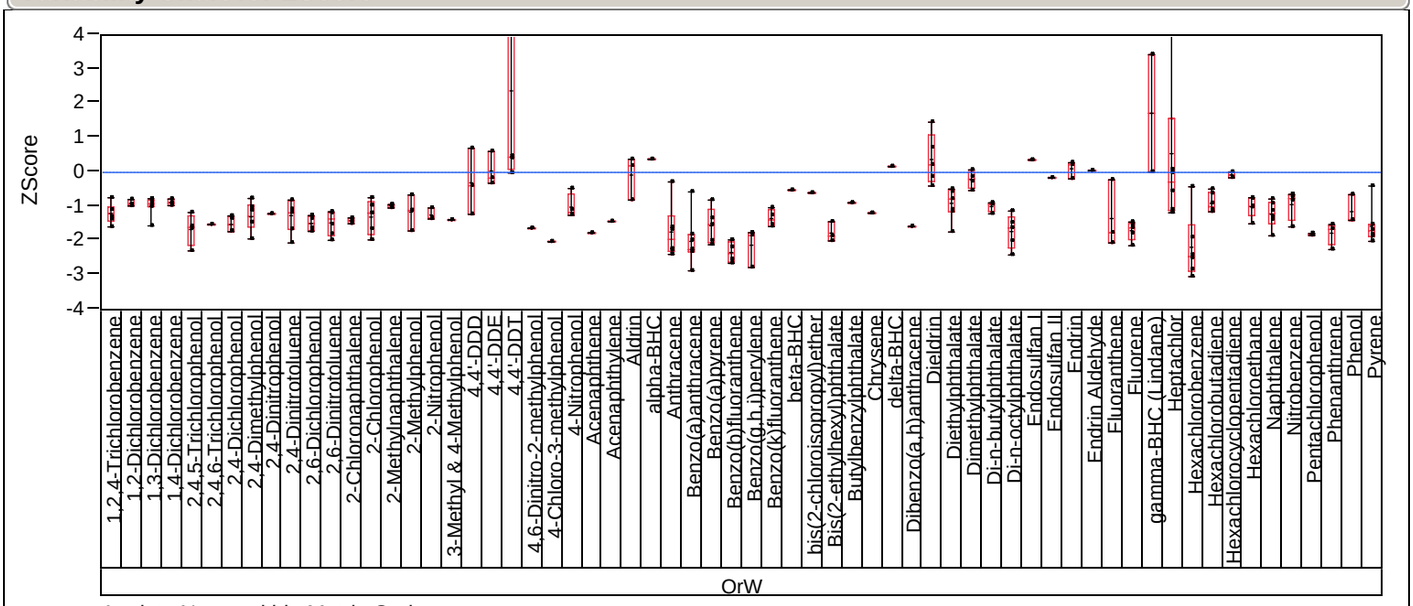


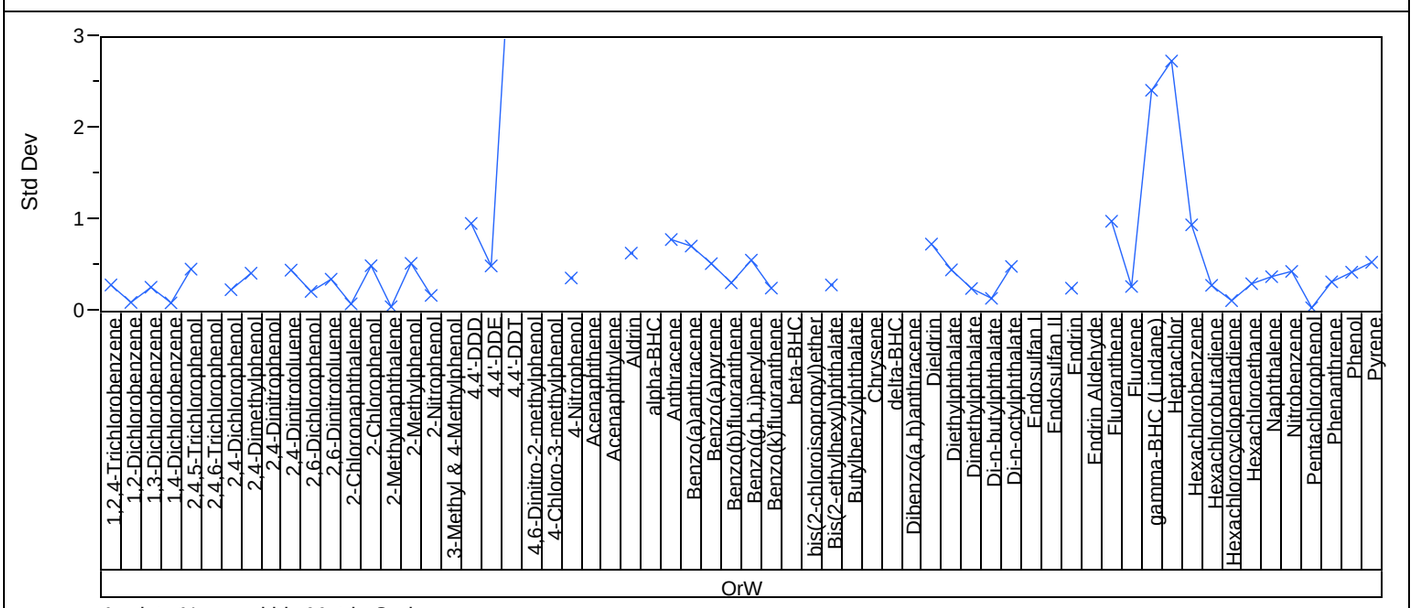
Variability Gauge Lab Code=QUAN01

Variability Chart for ZScore

Variability Gauge Lab Code=QUAN01

Variability Chart for ZScore



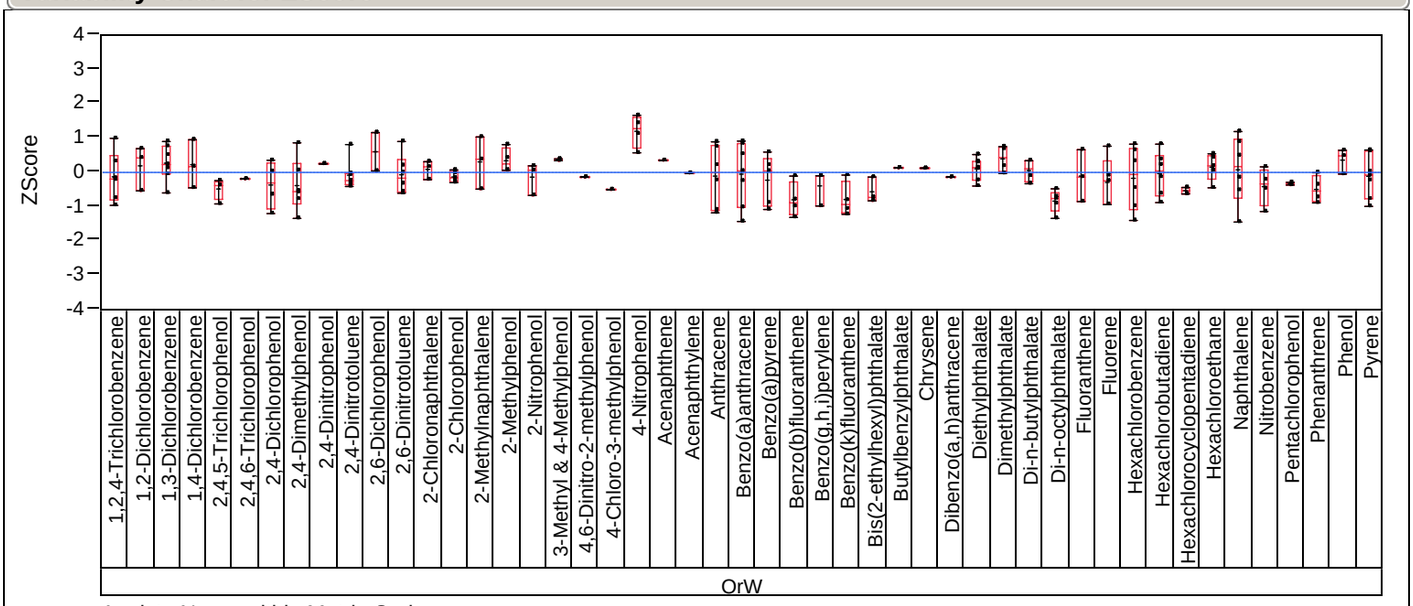


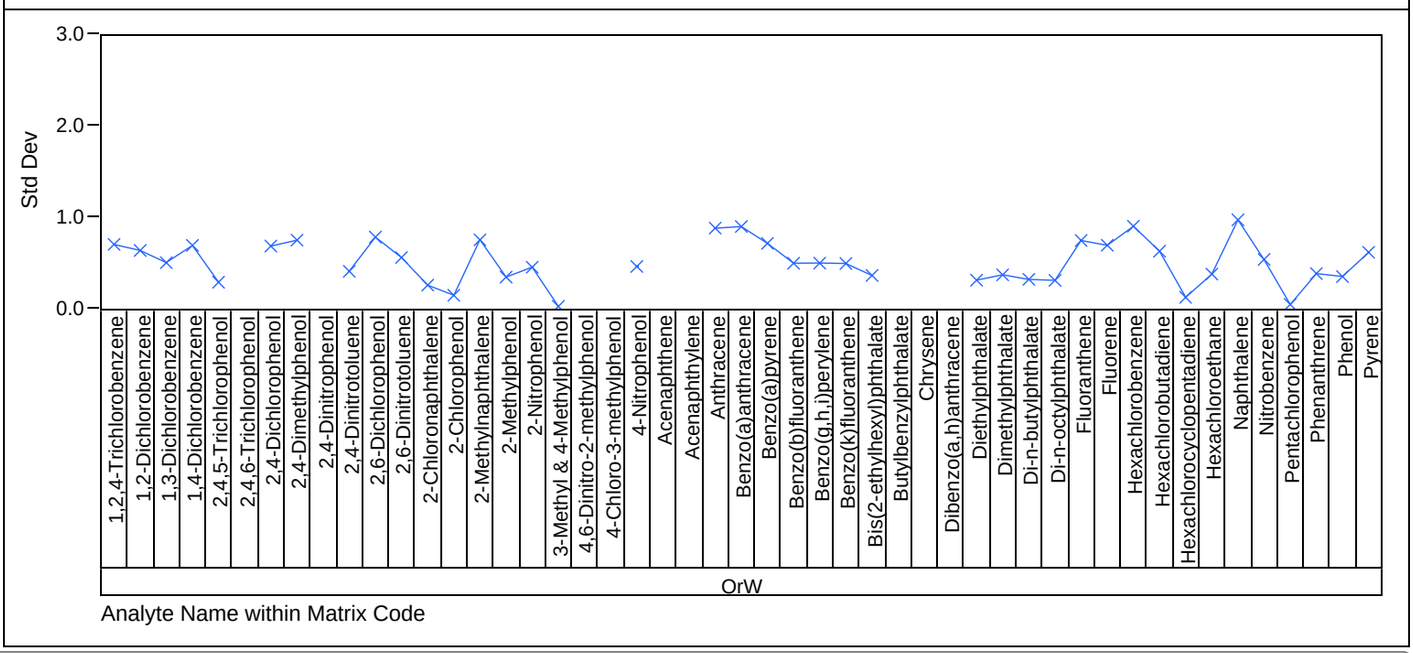
Variability Gauge Lab Code=QUAN02

Variability Chart for ZScore

Variability Gauge Lab Code=QUAN02

Variability Chart for ZScore



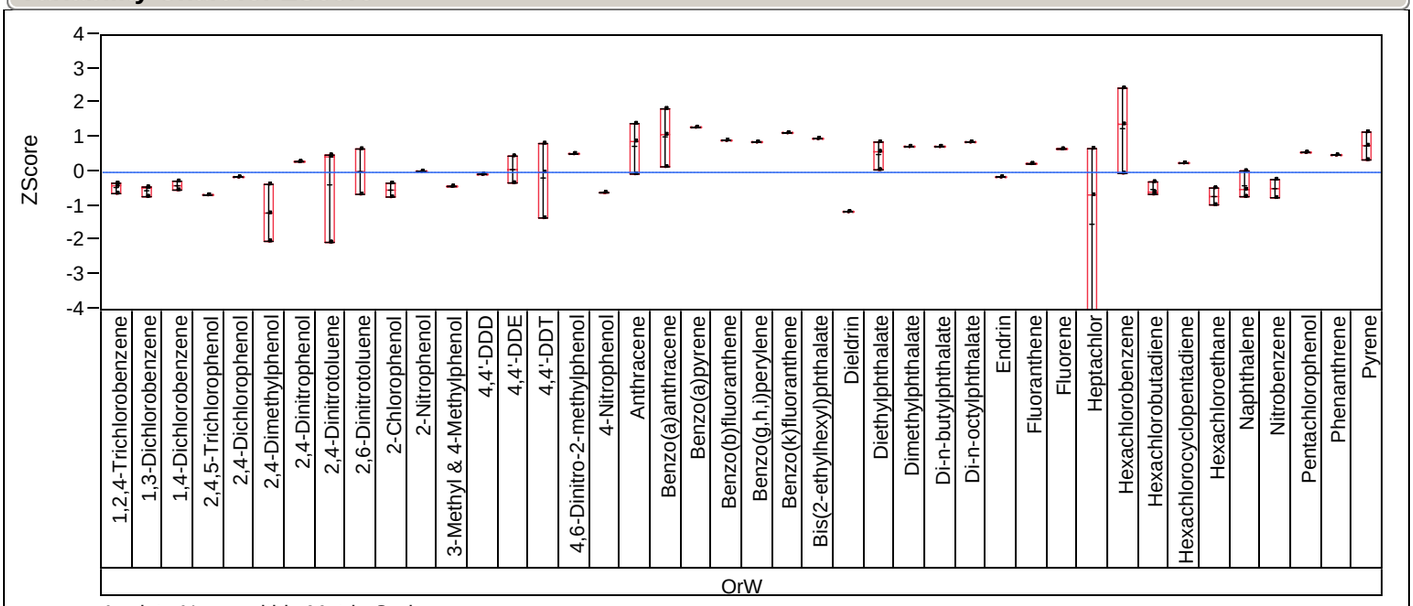


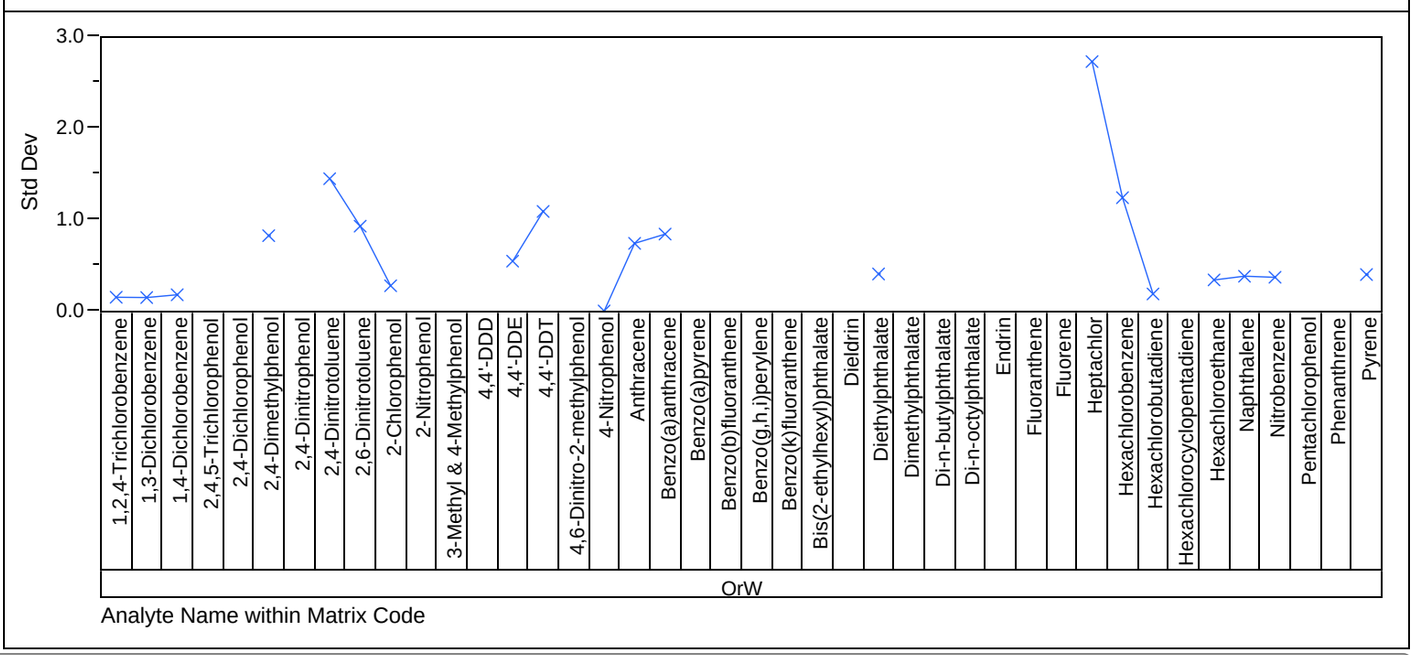
Variability Gauge Lab Code=RECC01

Variability Chart for ZScore

Variability Gauge Lab Code=RECC01

Variability Chart for ZScore



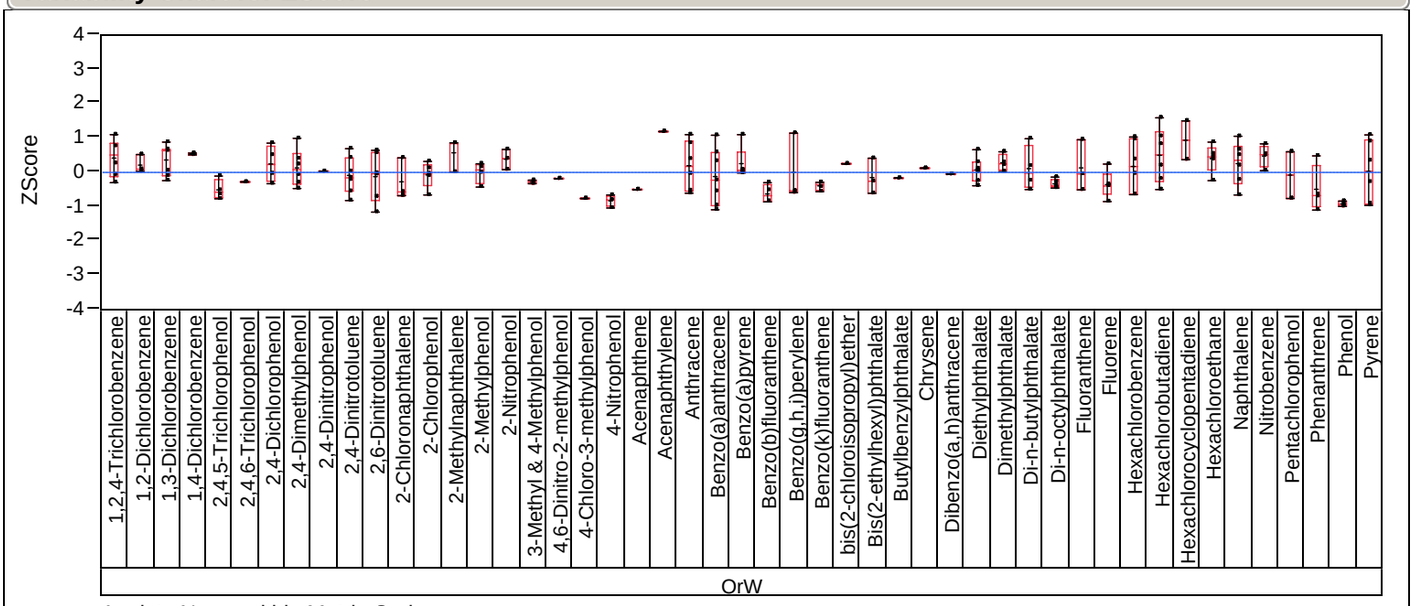


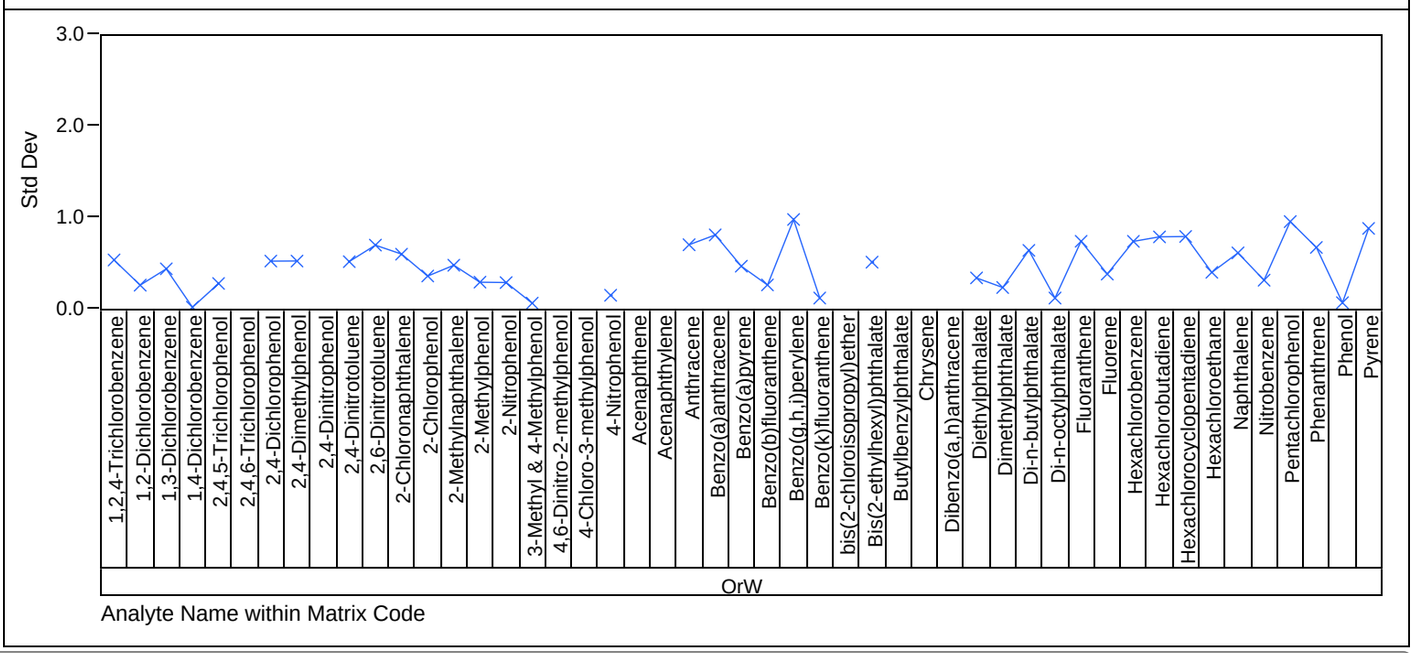
Variability Gauge Lab Code=SALC01

Variability Chart for ZScore

Variability Gauge Lab Code=SALC01

Variability Chart for ZScore



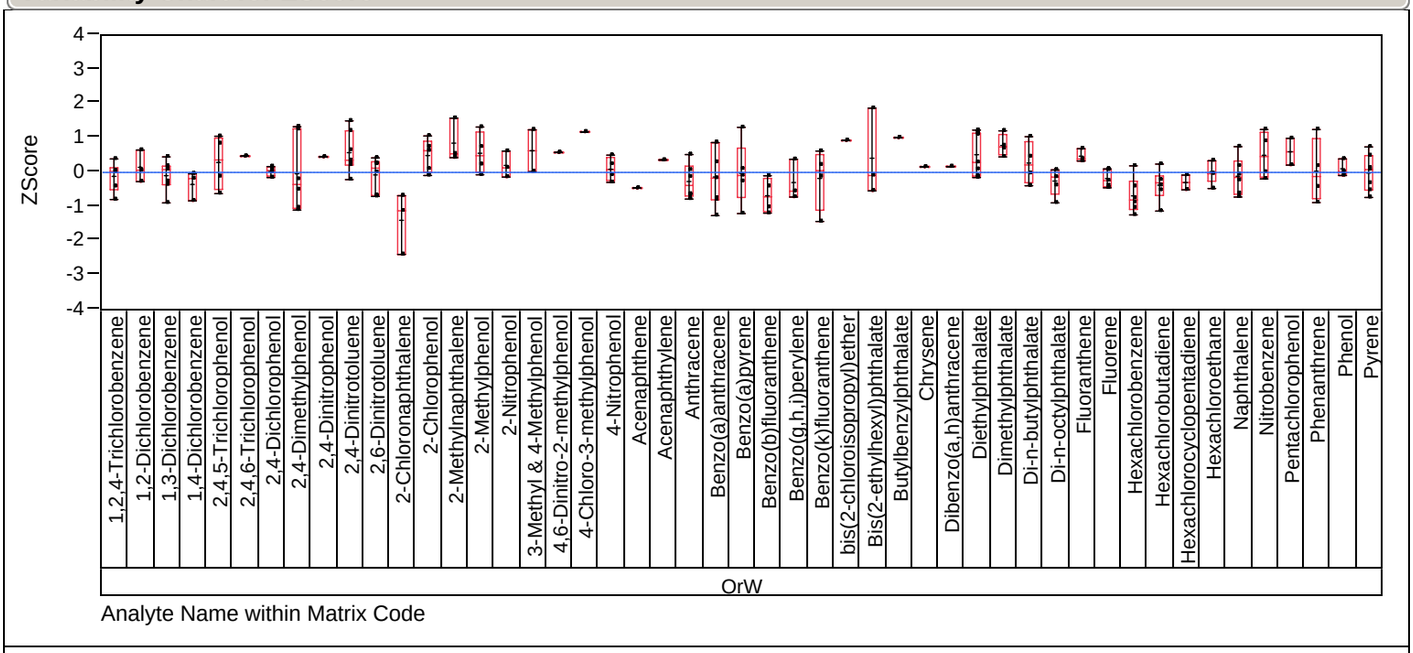


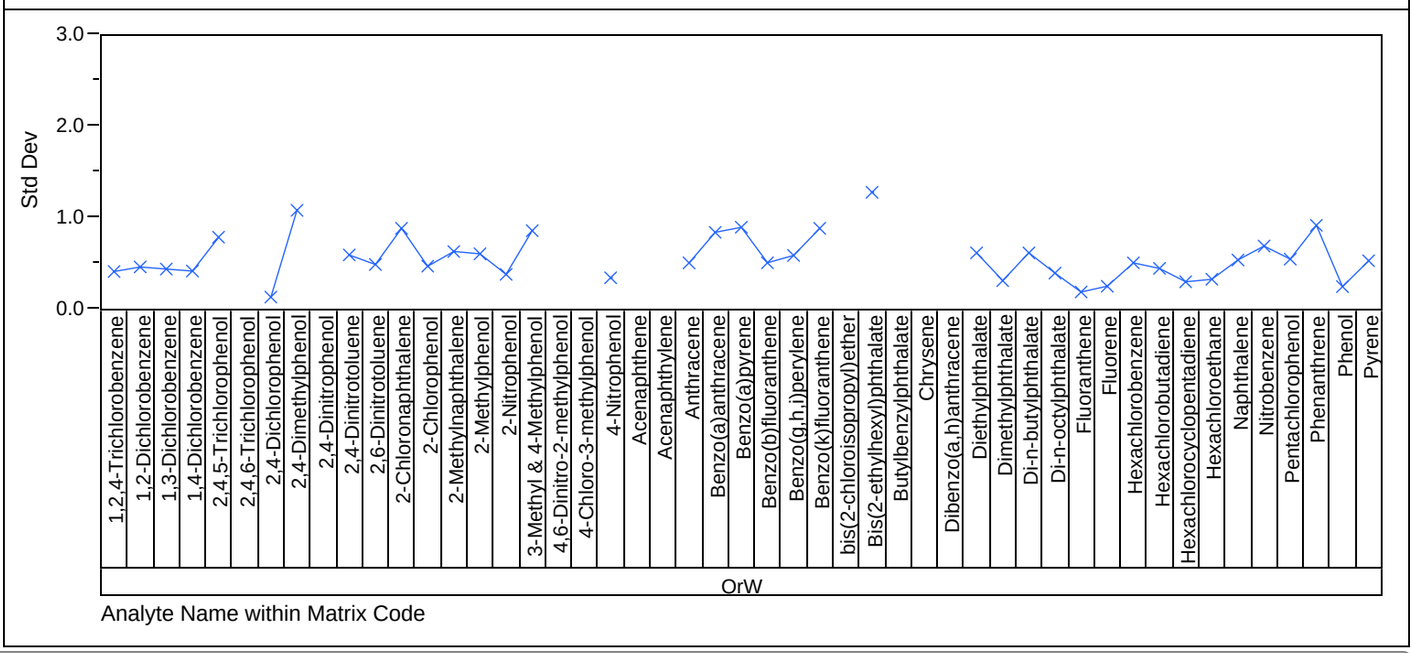
Variability Gauge Lab Code=SOUT01

Variability Chart for ZScore

Variability Gauge Lab Code=SOUT01

Variability Chart for ZScore



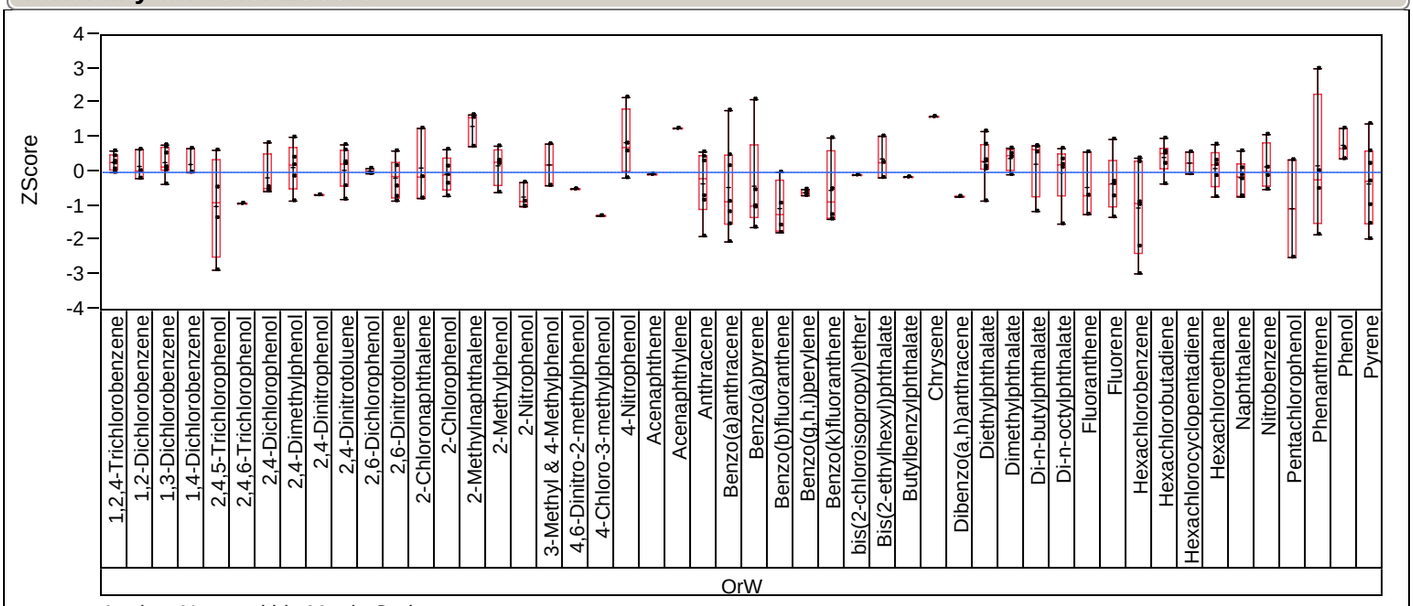


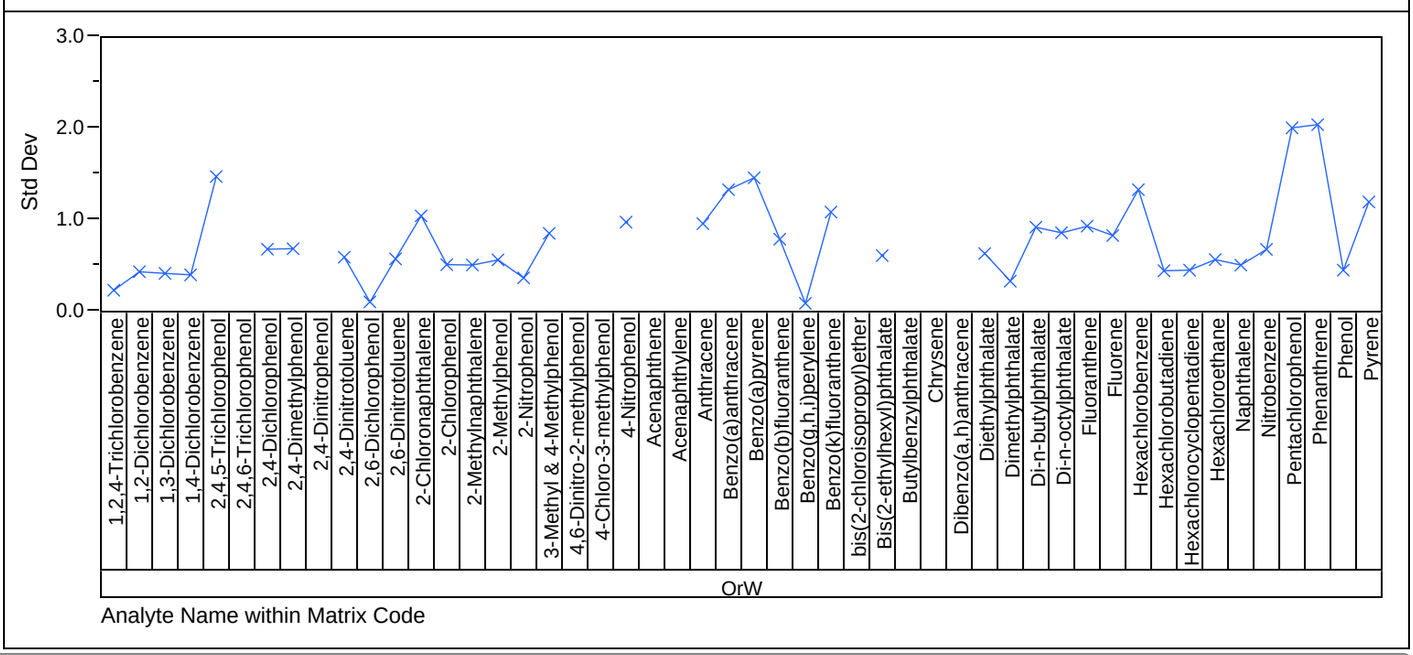
Variability Gauge Lab Code=WEST01

Variability Chart for ZScore

Variability Gauge Lab Code=WEST01

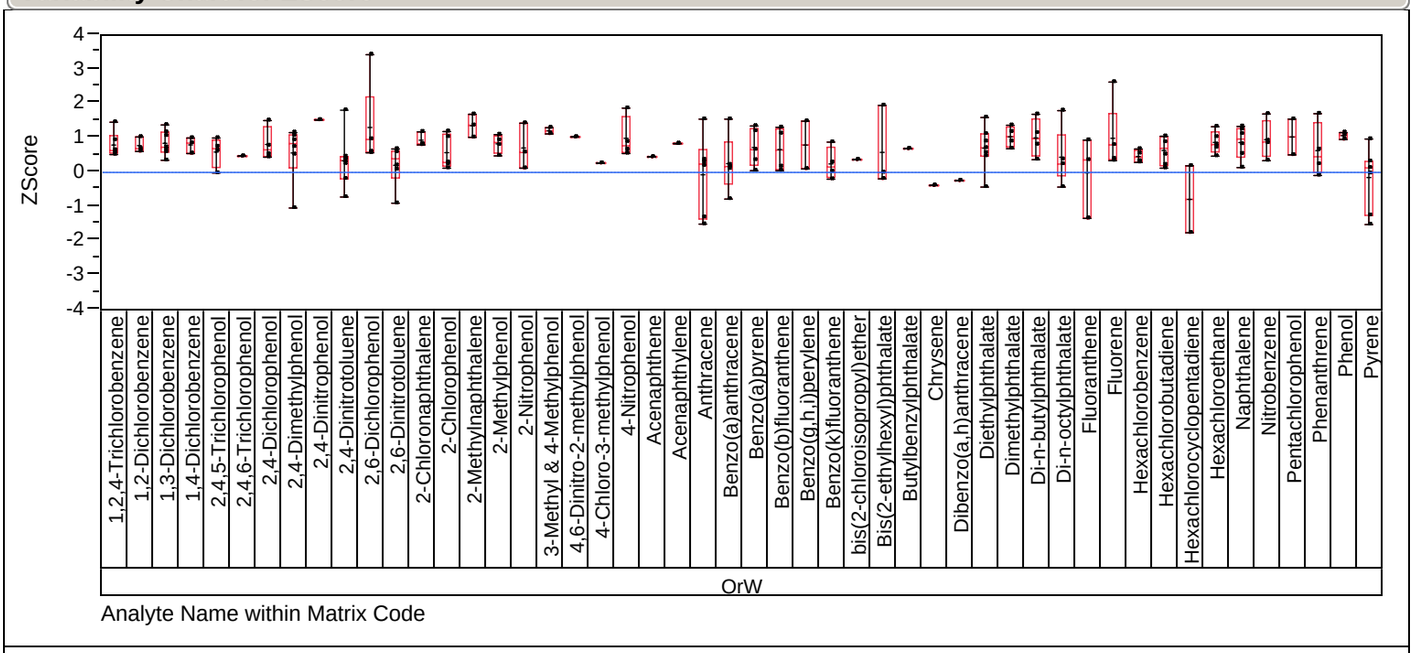
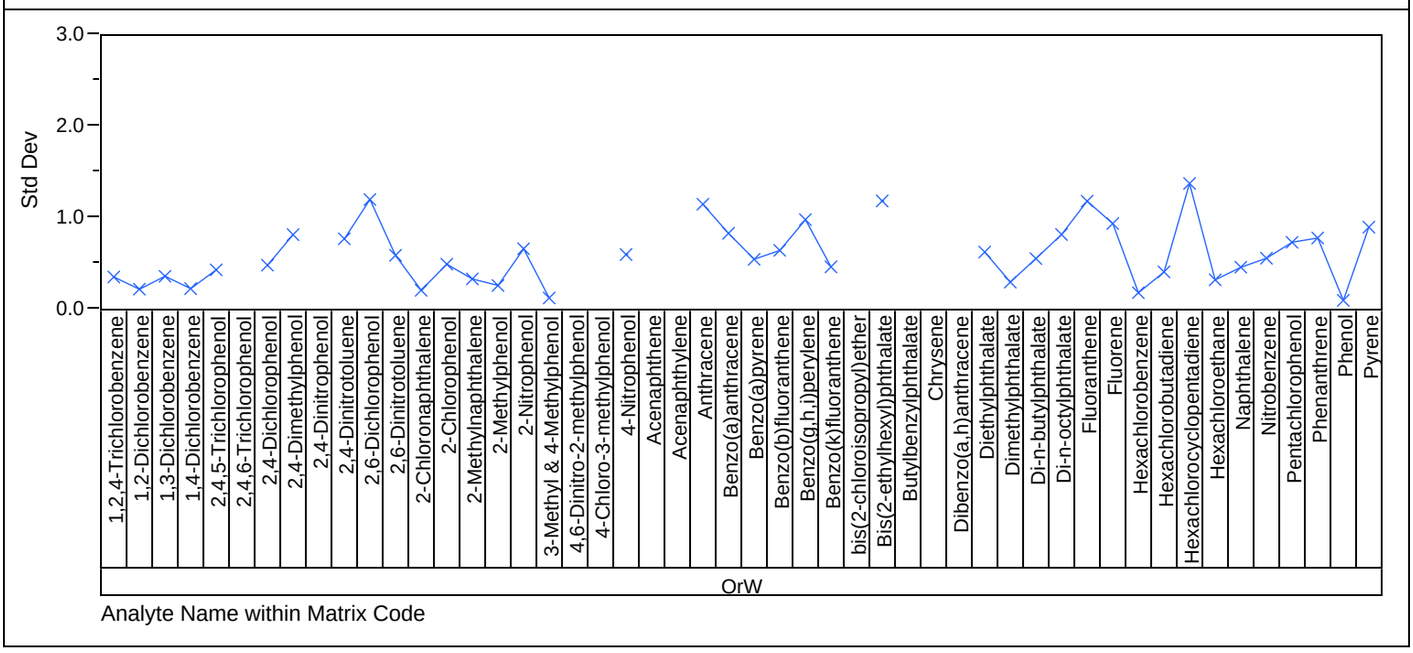
Variability Chart for ZScore





Variability Gauge Lab Code=WEST03

Variability Chart for ZScore

Variability Gauge Lab Code=WEST03

Variability Chart for ZScore