

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX092319\
 Data File : VX012606.D
 Acq On : 23 Sep 2019 15:57
 Operator : JC/SP
 Sample : K5000-03
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 STORAGE-BLANK-WATER-REF-4

Quant Time: Sep 24 01:51:31 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X092319W.M
 Quant Title : SW846 8260
 QLast Update : Mon Sep 23 12:27:01 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	177815	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	299999	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	249914	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	95349	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.05	65	126130	48.71	ug/l	0.00
Spiked Amount			Recovery	=	97.42%	
35) Dibromofluoromethane	5.49	113	90071	50.41	ug/l	0.00
Spiked Amount			Recovery	=	100.82%	
50) Toluene-d8	8.71	98	353269	51.34	ug/l	0.00
Spiked Amount			Recovery	=	102.68%	
62) 4-Bromofluorobenzene	11.14	95	122950	45.45	ug/l	0.00
Spiked Amount			Recovery	=	90.90%	

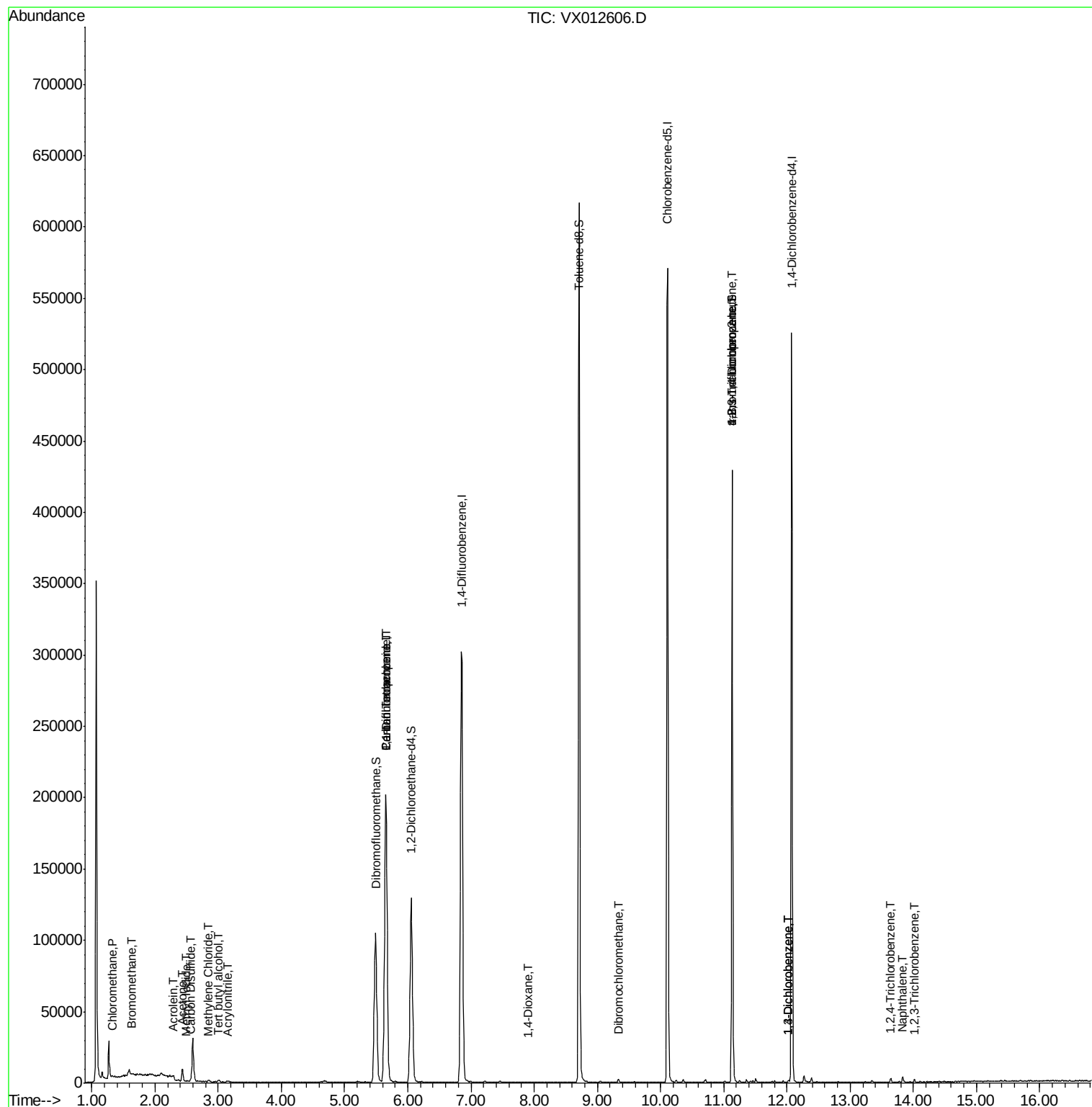
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	766	0.333	ug/l	90
5) Bromomethane	1.64	94	584	0.651	ug/l #	75
10) Methyl Iodide	2.50	142	634	5.231	ug/l #	90
11) Tert butyl alcohol	3.01	59	1100	1.701	ug/l #	72
13) Acrolein	2.28	56	266	10.941	ug/l #	57
15) Acrylonitrile	3.14	53	328	0.250	ug/l #	24
16) Acetone	2.43	43	8829	6.437	ug/l	95
17) Carbon Disulfide	2.56	76	1797	0.335	ug/l	97
20) Methylene Chloride	2.84	84	689	0.297	ug/l #	60
36) 1,1-Dichloropropene	5.65	75	15776	5.456	ug/l #	52
38) Carbon Tetrachloride	5.65	117	19866	6.763	ug/l #	16
49) 1,4-Dioxane	7.90	88	42	0.683	ug/l #	22
60) Dibromochloromethane	9.33	129	462	0.215	ug/l #	11
76) 1,2,3-Trichloropropane	11.14	75	63121	25.026	ug/l #	38
81) trans-1,4-Dichloro-2-buten	11.14	75	63121	71.719	ug/l #	8
87) 1,3-Dichlorobenzene	12.03	146	676	0.214	ug/l	92
88) 1,4-Dichlorobenzene	12.03	146	676	0.211	ug/l	92
93) 1,2,4-Trichlorobenzene	13.64	180	739	0.383	ug/l	90
95) Naphthalene	13.83	128	2503	0.358	ug/l #	93
96) 1,2,3-Trichlorobenzene	14.02	180	430	0.222	ug/l	82

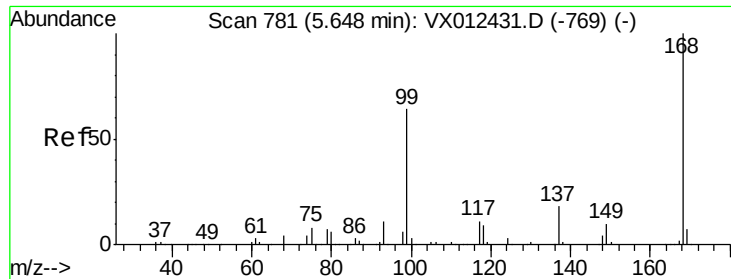
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Mon Sep 23 12:27:01 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.01 min

Lab File: VX012606.D

Acq: 23 Sep 2019 15:57

Instrument :

MSVOA_X

ClientSampleId :

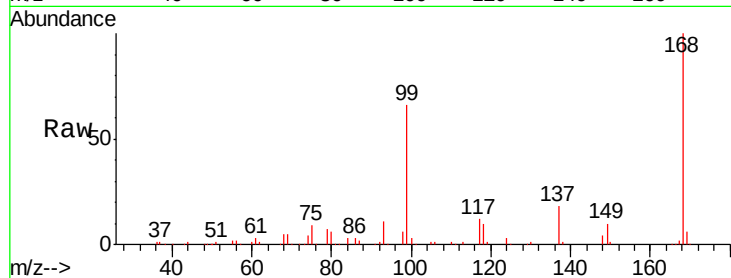
STORAGE-BLANK-WATER-REF-4

Tgt Ion:168 Resp: 177815

Ion Ratio Lower Upper

168 100

99 66.1 51.4 77.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

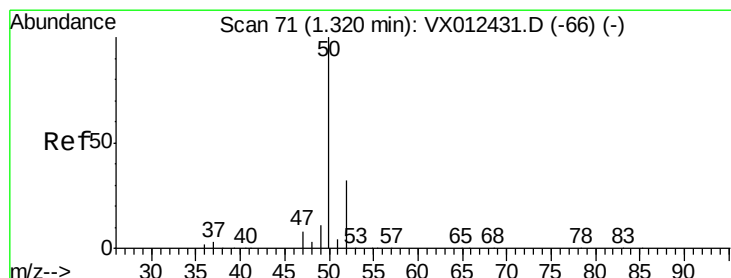
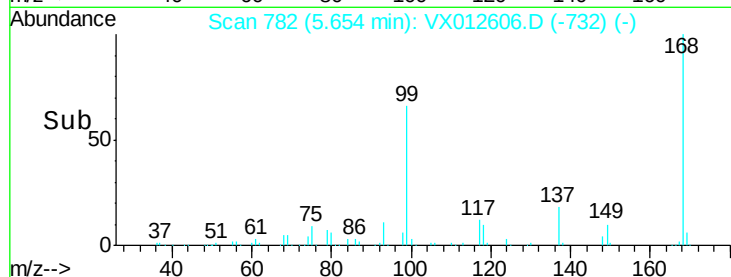
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.333 ug/l

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VX012606.D

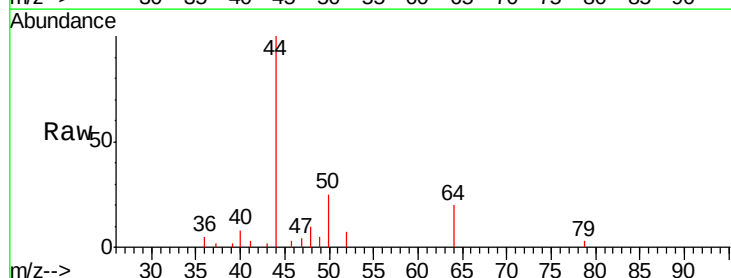
Acq: 23 Sep 2019 15:57

Tgt Ion: 50 Resp: 766

Ion Ratio Lower Upper

50 100

52 26.7 25.7 38.5



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

800

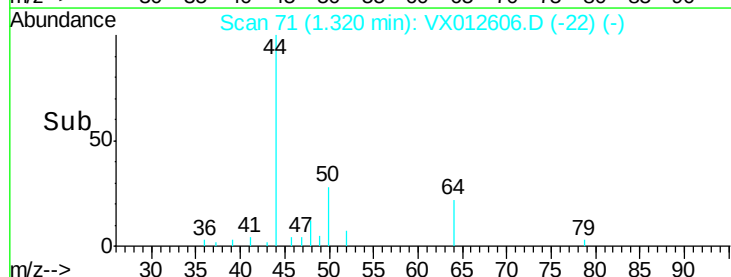
600

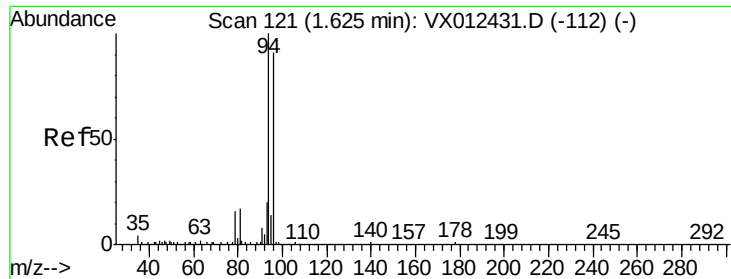
400

200

0

Time--> 1.28 1.30 1.32 1.34 1.36





#5

Bromomethane

Concen: 0.651 ug/l

RT: 1.64 min Scan# 123

Delta R.T. 0.01 min

Lab File: VX012606.D

Acq: 23 Sep 2019 15:57

Instrument :

MSVOA_X

ClientSampleId :

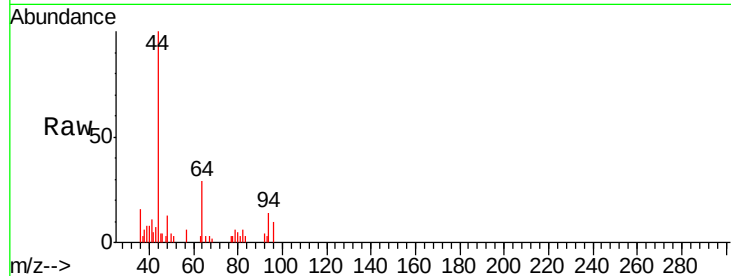
STORAGE-BLANK-WATER-REF-4

Tgt Ion: 94 Resp: 584

Ion Ratio Lower Upper

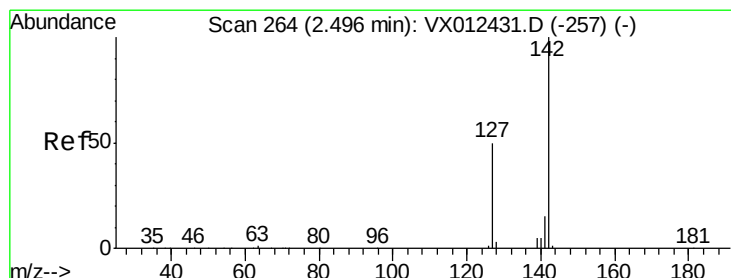
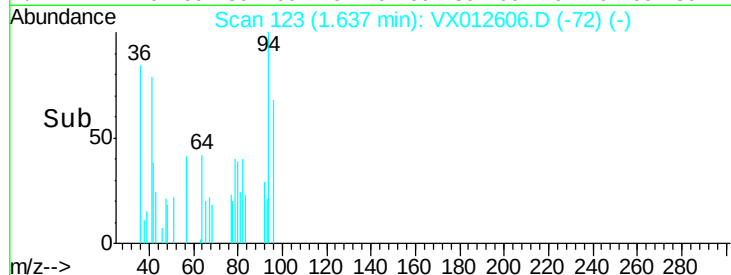
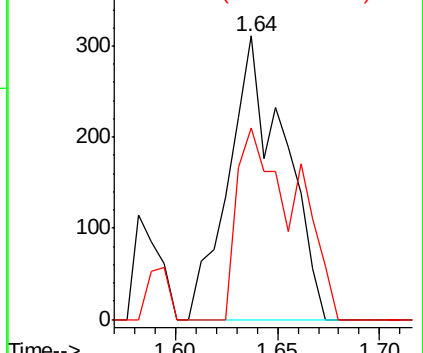
94 100

96 67.5 72.8 109.2#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#10

Methyl Iodide

Concen: 5.231 ug/l

RT: 2.50 min Scan# 264

Delta R.T. 0.00 min

Lab File: VX012606.D

Acq: 23 Sep 2019 15:57

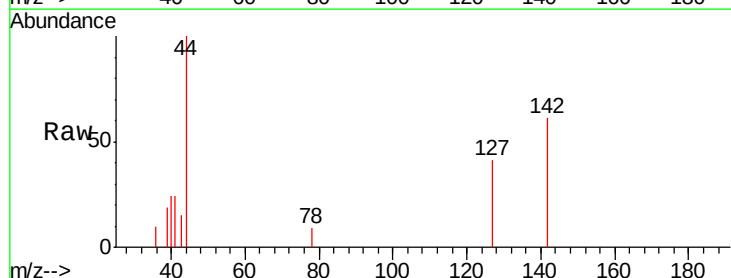
Tgt Ion: 142 Resp: 634

Ion Ratio Lower Upper

142 100

127 49.5 40.8 61.2

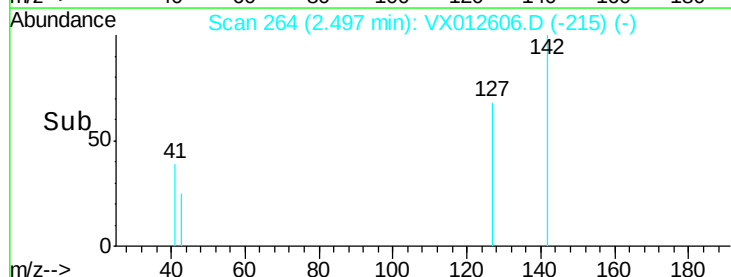
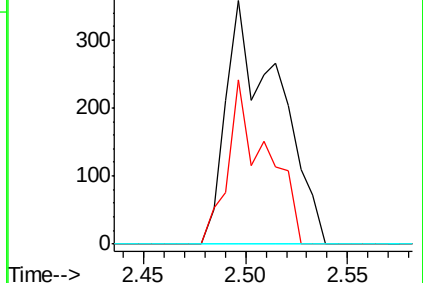
141 0.0 12.1 18.1#

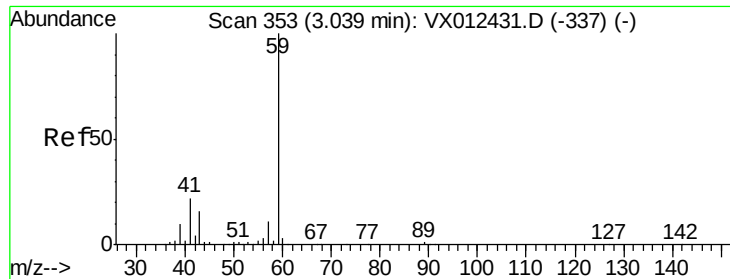


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

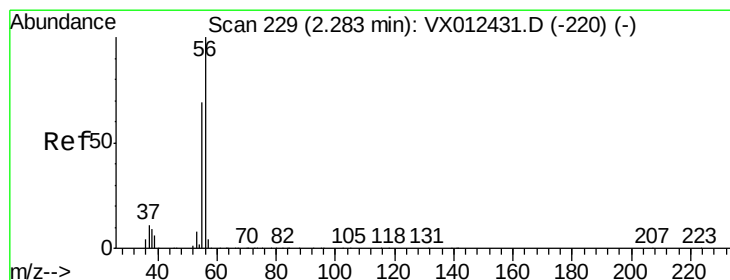
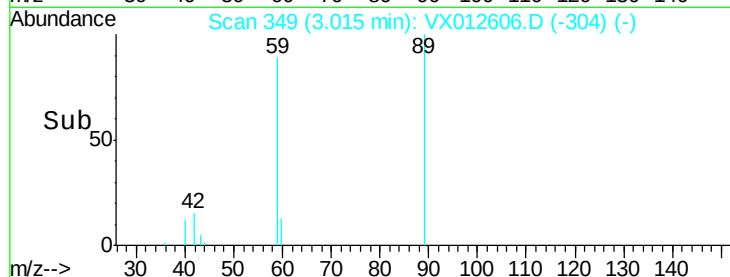
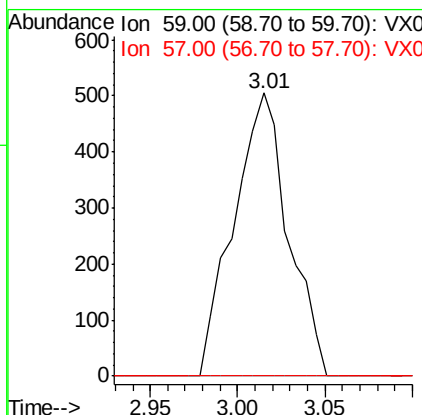
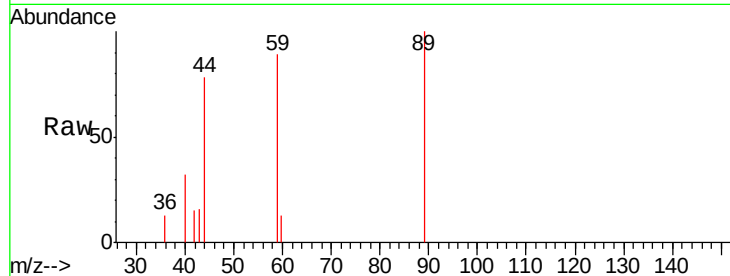




#11
Tert butyl alcohol
Concen: 1.701 ug/l
RT: 3.01 min Scan# 349
Delta R.T. -0.02 min
Lab File: VX012606.D
Acq: 23 Sep 2019 15:57

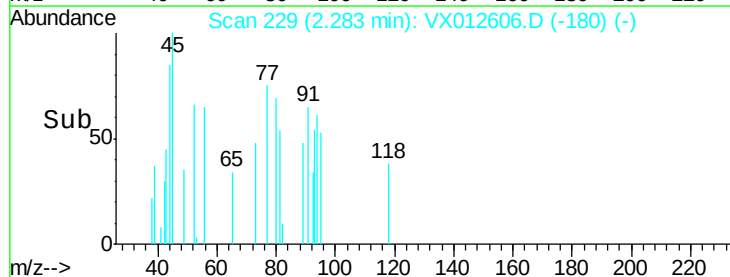
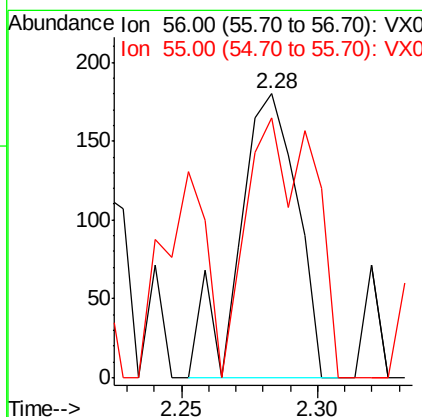
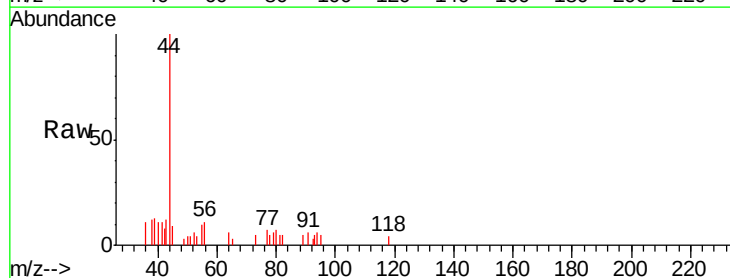
Instrument :
MSVOA_X
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STORAGE-BLANK-WATER-REF-4

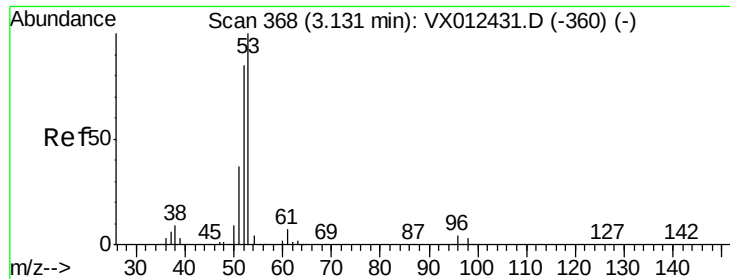
Tgt Ion: 59 Resp: 1100
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#



#13
Acrolein
Concen: 10.941 ug/l
RT: 2.28 min Scan# 229
Delta R.T. 0.00 min
Lab File: VX012606.D
Acq: 23 Sep 2019 15:57

Tgt Ion: 56 Resp: 266
Ion Ratio Lower Upper
56 100
55 104.9 55.8 83.8#





#15

Acrylonitrile

Concen: 0.250 ug/l

RT: 3.14 min Scan# 370

Delta R.T. 0.01 min

Lab File: VX012606.D

Acq: 23 Sep 2019 15:57

Instrument :

MSVOA_X

ClientSampleId :

STORAGE-BLANK-WATER-REF-4

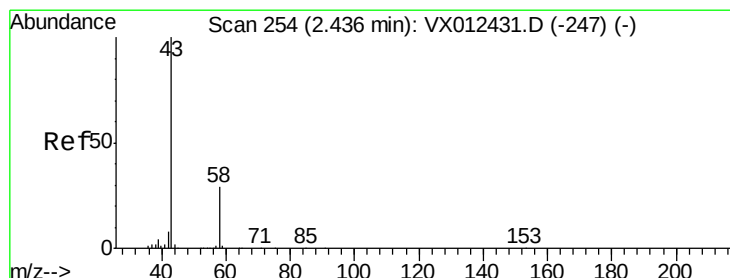
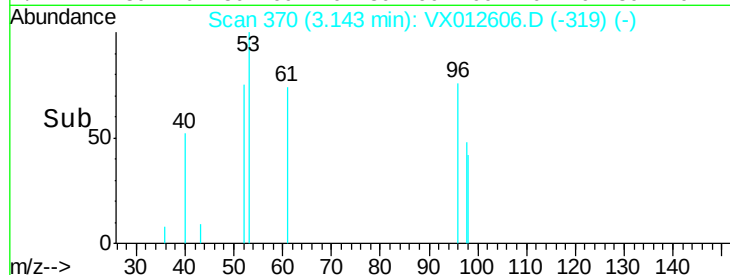
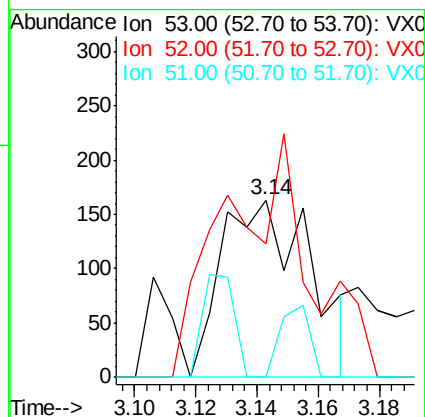
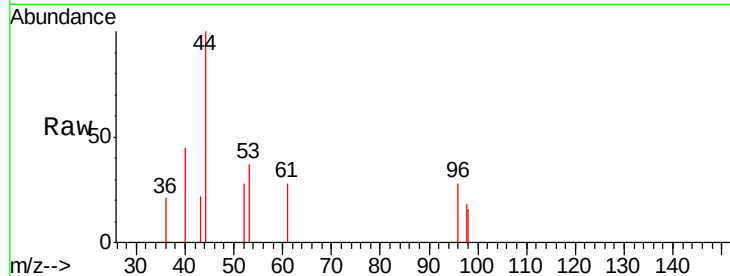
Tgt Ion: 53 Resp: 328

Ion Ratio Lower Upper

53 100

52 0.0 67.0 100.4#

51 13.7 29.6 44.4#



#16

Acetone

Concen: 6.437 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.01 min

Lab File: VX012606.D

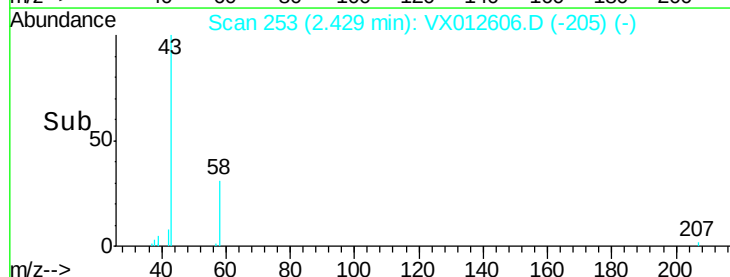
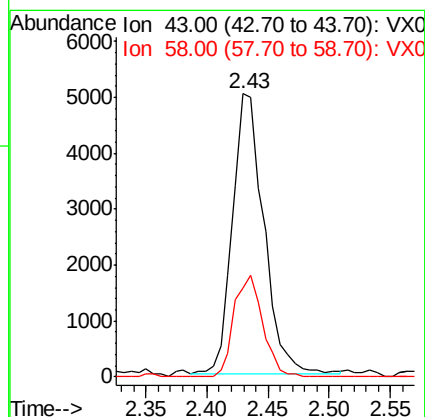
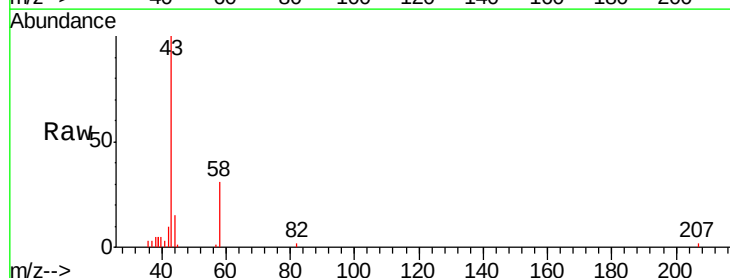
Acq: 23 Sep 2019 15:57

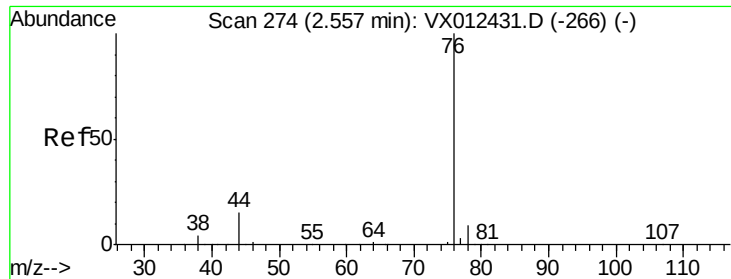
Tgt Ion: 43 Resp: 8829

Ion Ratio Lower Upper

43 100

58 31.7 23.3 34.9





#17

Carbon Disulfide

Concen: 0.335 ug/l

RT: 2.56 min Scan# 275

Delta R.T. 0.01 min

Lab File: VX012606.D

Acq: 23 Sep 2019 15:57

Instrument :

MSVOA_X

ClientSampleId :

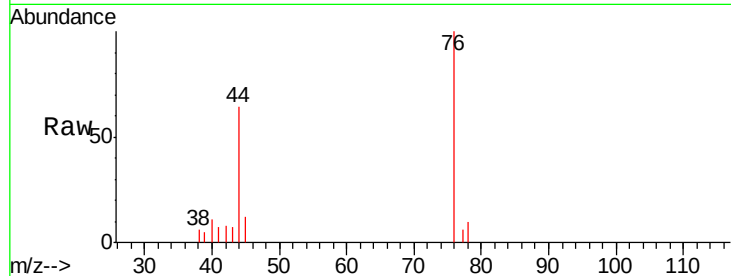
STORAGE-BLANK-WATER-REF-4

Tgt Ion: 76 Resp: 1797

Ion Ratio Lower Upper

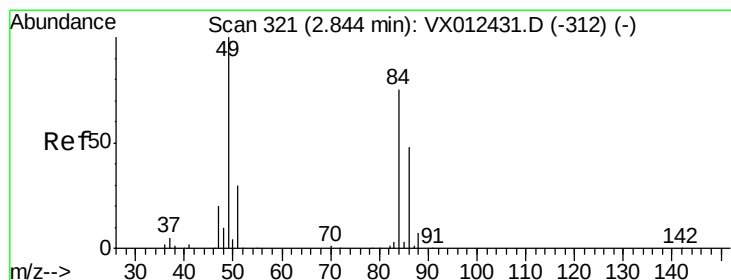
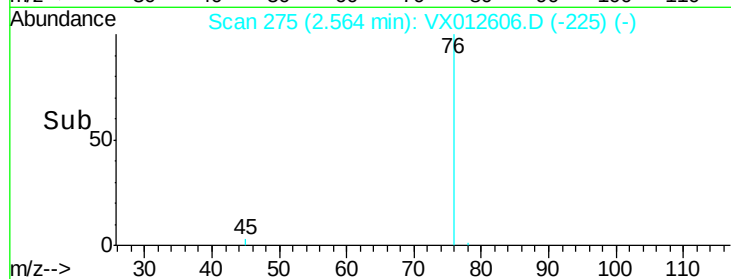
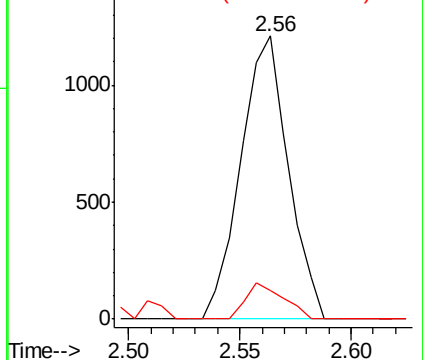
76 100

78 10.1 7.3 10.9



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#20

Methylene Chloride

Concen: 0.297 ug/l

RT: 2.84 min Scan# 320

Delta R.T. -0.01 min

Lab File: VX012606.D

Acq: 23 Sep 2019 15:57

Tgt Ion: 84 Resp: 689

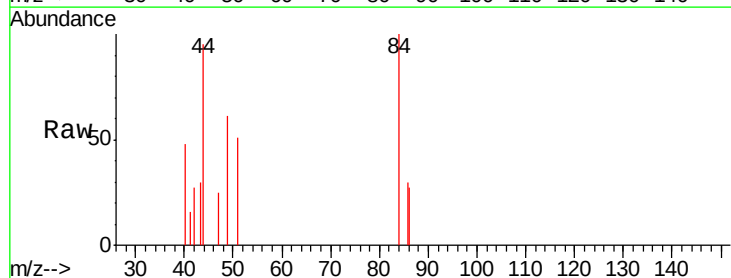
Ion Ratio Lower Upper

84 100

49 60.6 106.8 160.2#

51 50.6 32.3 48.5#

86 56.9 51.3 76.9

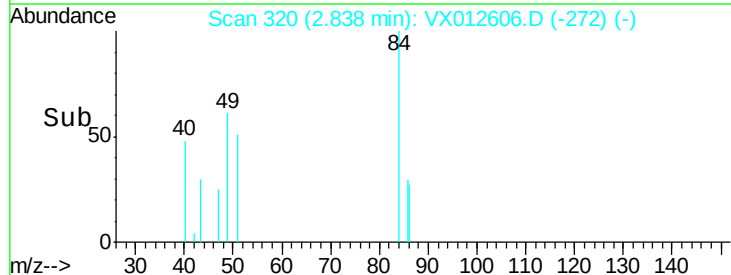
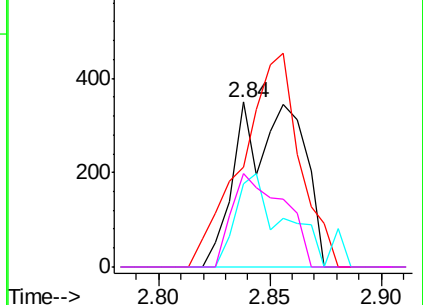


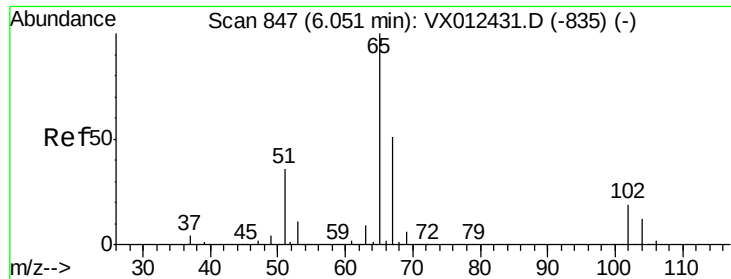
Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0

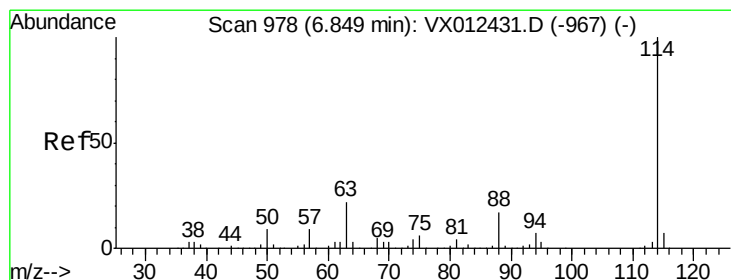
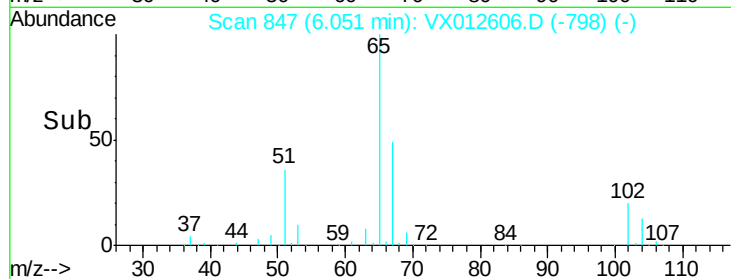
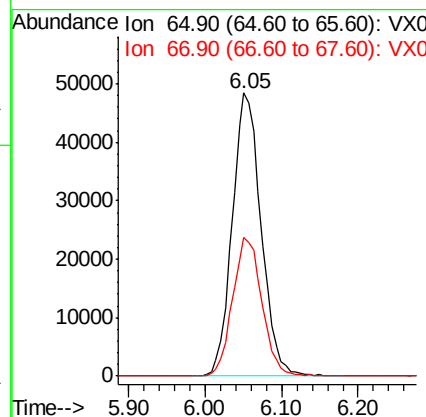
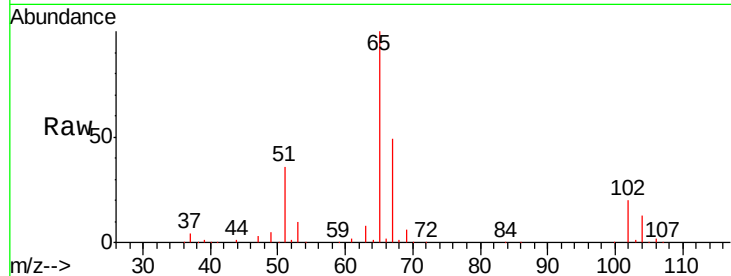




#33
 1,2-Dichloroethane-d4
 Concen: 48.711 ug/l
 RT: 6.05 min Scan# 847
 Delta R.T. 0.00 min
 Lab File: VX012606.D
 Acq: 23 Sep 2019 15:57

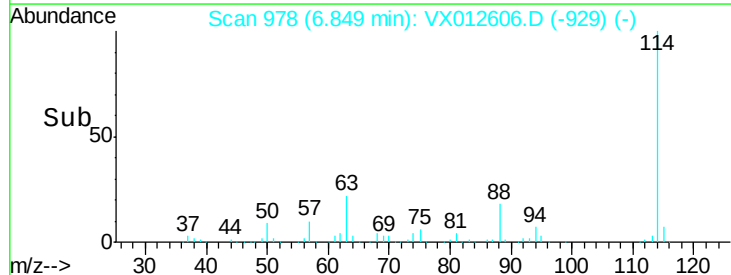
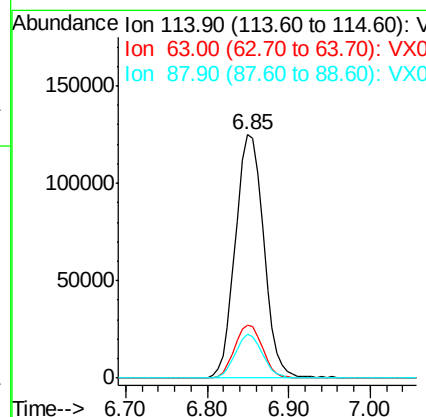
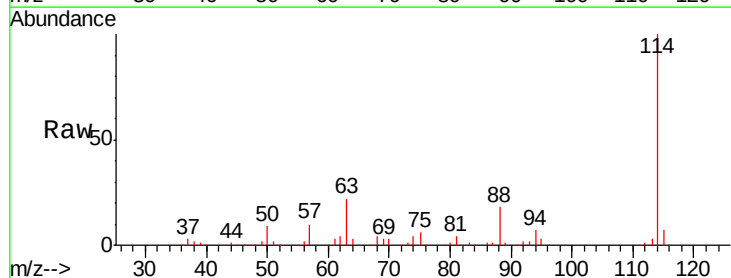
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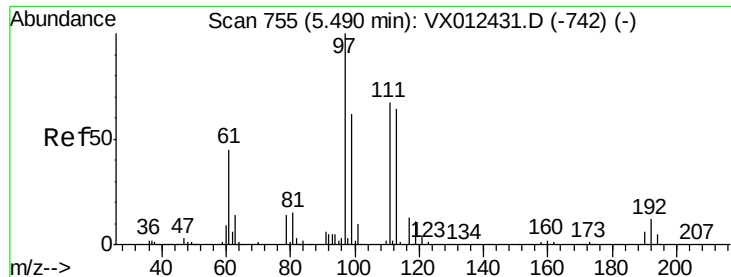
Tgt Ion: 65 Resp: 126130
 Ion Ratio Lower Upper
 65 100
 67 49.8 0.0 101.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 978
 Delta R.T. 0.00 min
 Lab File: VX012606.D
 Acq: 23 Sep 2019 15:57

Tgt Ion: 114 Resp: 299999
 Ion Ratio Lower Upper
 114 100
 63 22.0 0.0 43.2
 88 17.9 0.0 33.2





#35

Dibromofluoromethane

Concen: 50.414 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX012606.D

Acq: 23 Sep 2019 15:57

Instrument :

MSVOA_X

ClientSampleId :

STORAGE-BLANK-WATER-REF-4

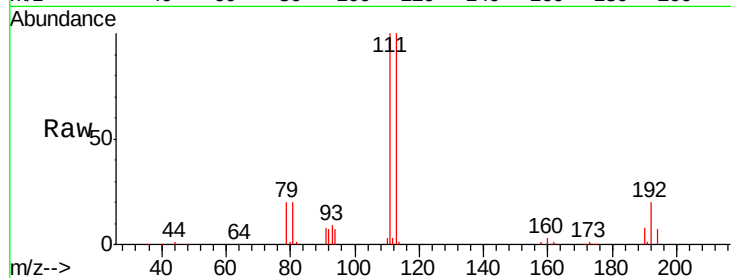
Tgt Ion:113 Resp: 90071

Ion Ratio Lower Upper

113 100

111 102.4 83.4 125.2

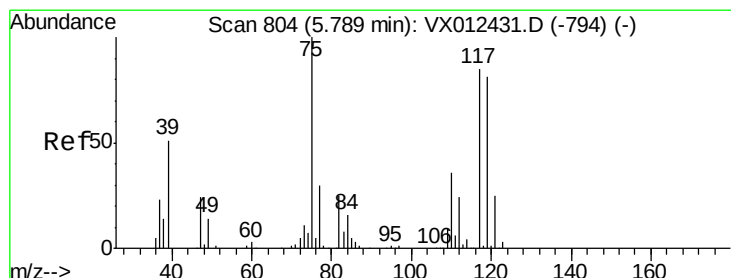
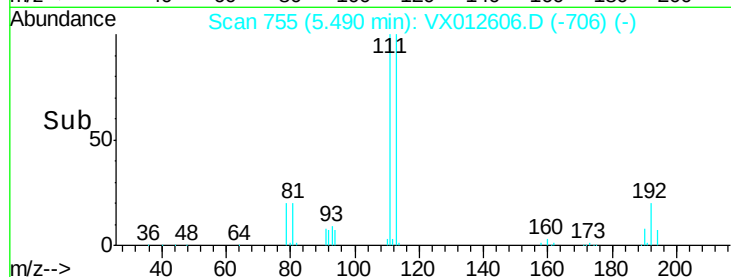
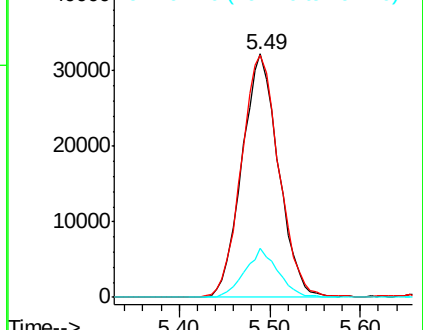
192 18.0 14.4 21.6



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 5.456 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.13 min

Lab File: VX012606.D

Acq: 23 Sep 2019 15:57

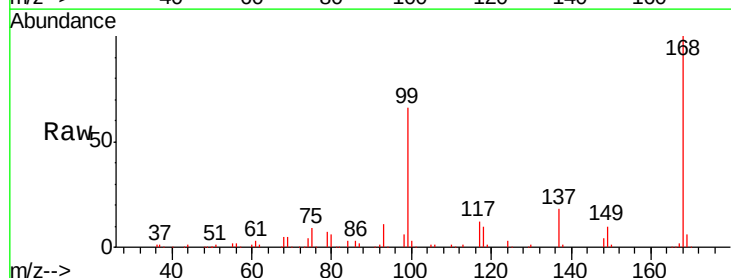
Tgt Ion: 75 Resp: 15776

Ion Ratio Lower Upper

75 100

110 10.0 16.7 50.0#

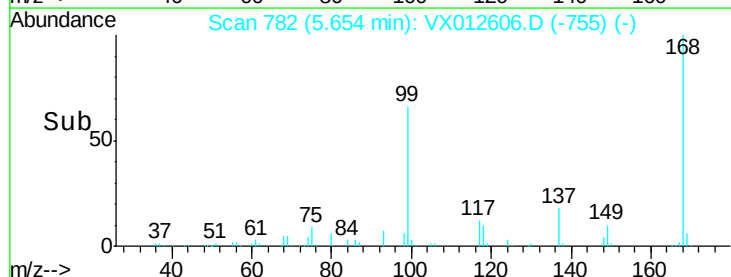
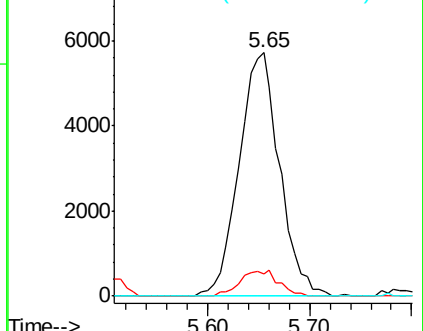
77 0.0 24.2 36.2#

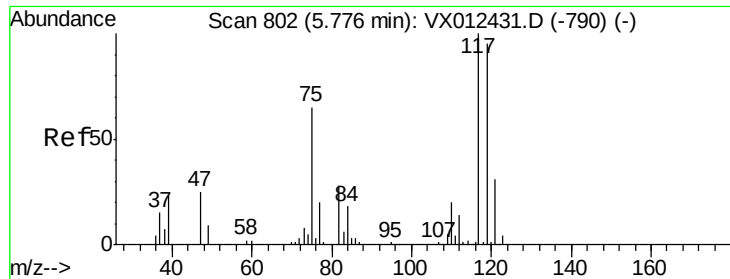


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.763 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.12 min

Lab File: VX012606.D

Acq: 23 Sep 2019 15:57

Instrument :

MSVOA_X

ClientSampleId :

STORAGE-BLANK-WATER-REF-4

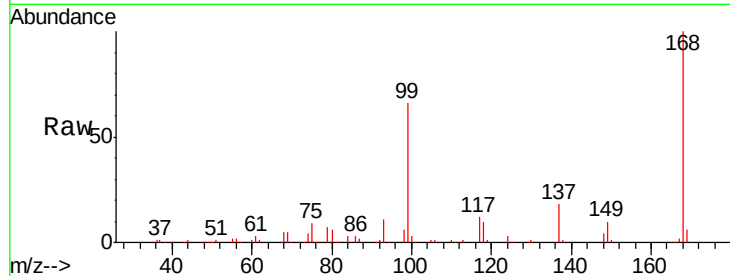
Tgt Ion: 117 Resp: 19866

Ion Ratio Lower Upper

117 100

119 4.8 75.7 113.5#

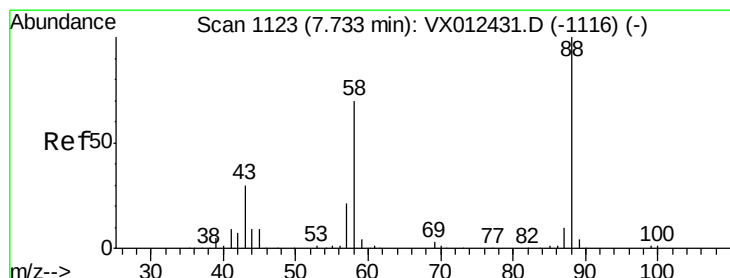
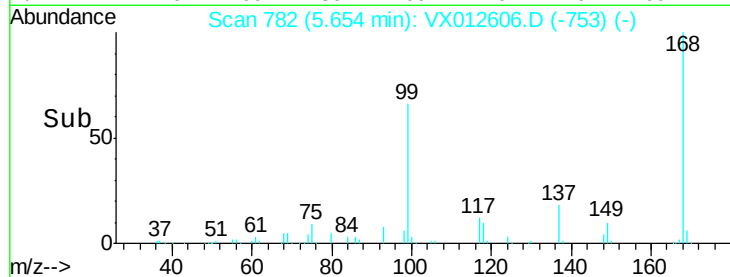
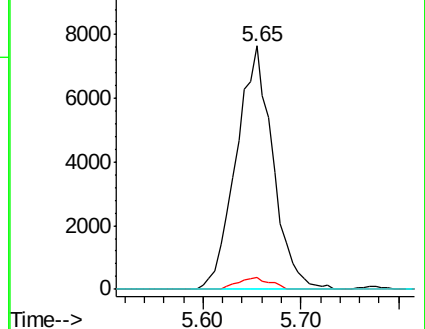
121 0.0 24.2 36.4#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#49

1,4-Dioxane

Concen: 0.683 ug/l

RT: 7.90 min Scan# 1151

Delta R.T. 0.17 min

Lab File: VX012606.D

Acq: 23 Sep 2019 15:57

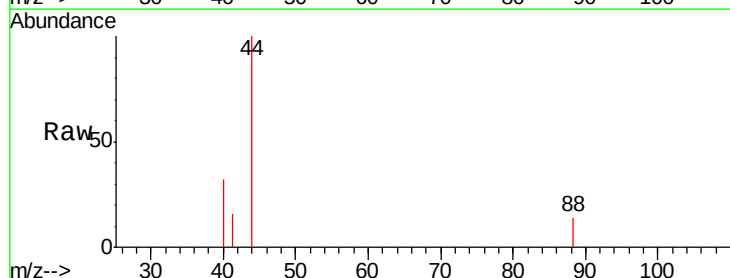
Tgt Ion: 88 Resp: 42

Ion Ratio Lower Upper

88 100

43 0.0 29.4 44.0#

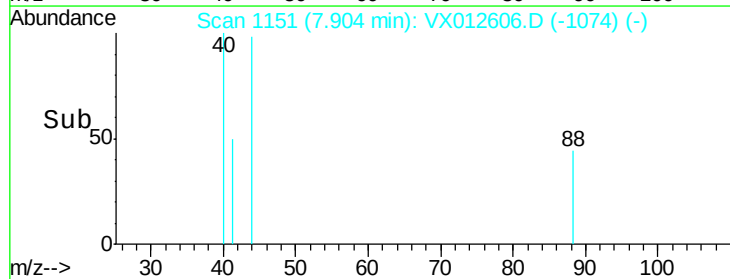
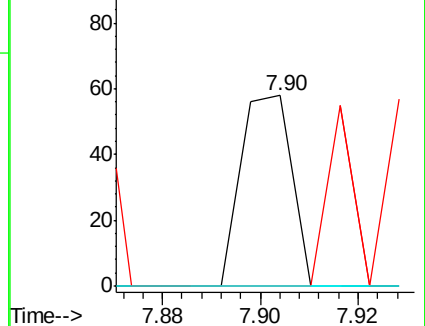
58 0.0 57.5 86.3#

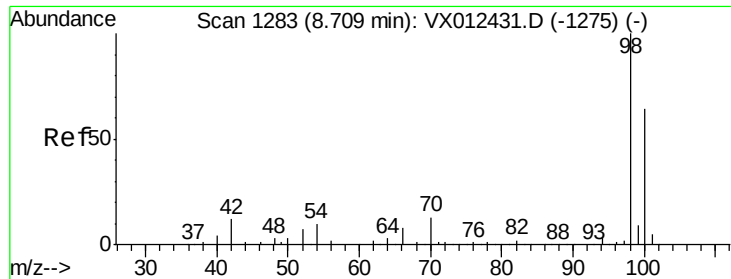


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 51.344 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX012606.D

Acq: 23 Sep 2019 15:57

Instrument :

MSVOA_X

ClientSampleId :

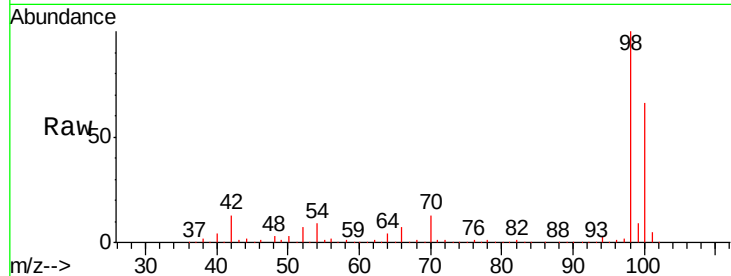
STORAGE-BLANK-WATER-REF-4

Tgt Ion: 98 Resp: 353269

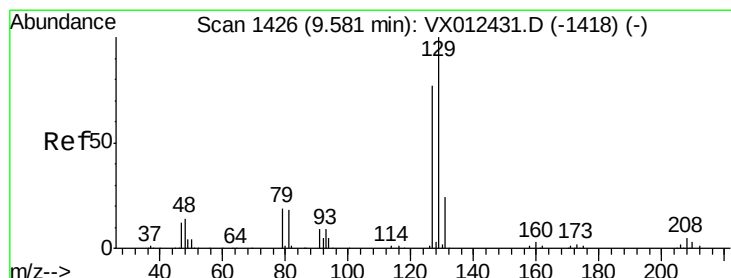
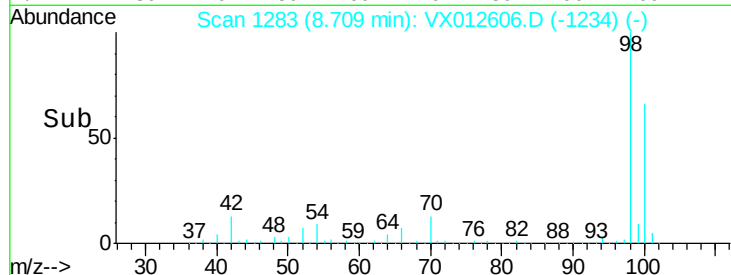
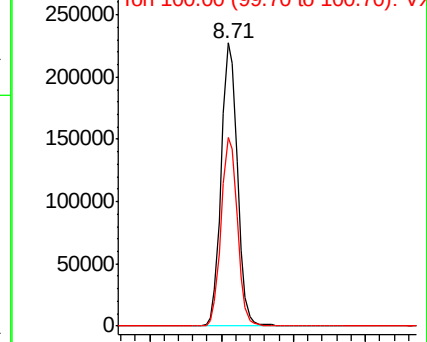
Ion Ratio Lower Upper

98 100

100 66.9 53.4 80.2



Abundance Ion 98.00 (97.70 to 98.70): VX012431.D (-1275) (-)



#60

Dibromochloromethane

Concen: 0.215 ug/l

RT: 9.33 min Scan# 1385

Delta R.T. -0.25 min

Lab File: VX012606.D

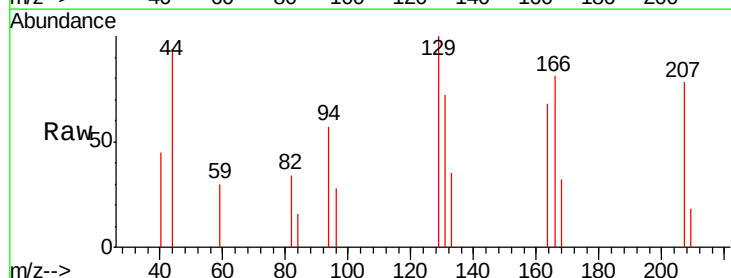
Acq: 23 Sep 2019 15:57

Tgt Ion: 129 Resp: 462

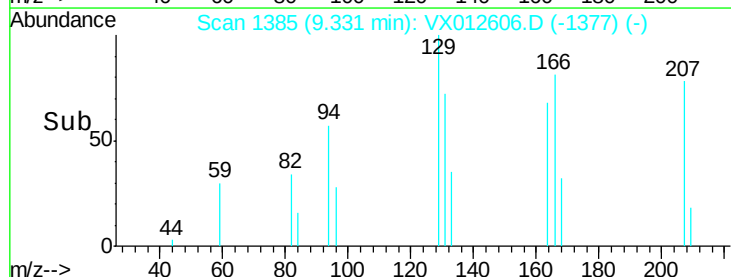
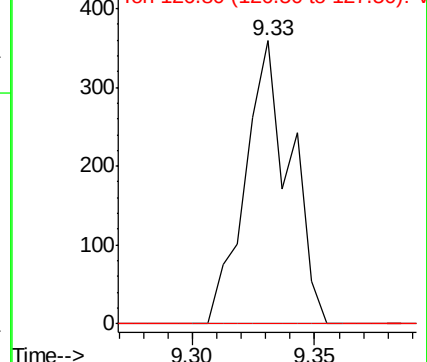
Ion Ratio Lower Upper

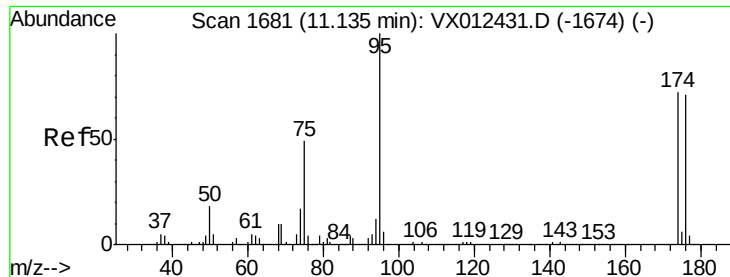
129 100

127 0.0 38.9 116.6#



Abundance Ion 128.80 (128.50 to 129.50): VX012431.D (-1418) (-)





#62

4-Bromofluorobenzene

Concen: 45.446 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.00 min

Lab File: VX012606.D

Acq: 23 Sep 2019 15:57

Instrument :

MSVOA_X

ClientSampleId :

STORAGE-BLANK-WATER-REF-4

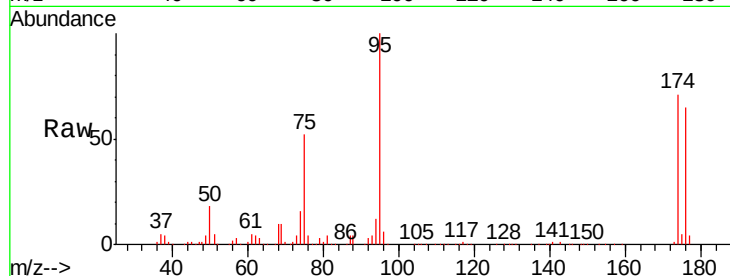
Tgt Ion: 95 Resp: 122950

Ion Ratio Lower Upper

95 100

174 67.1 0.0 140.0

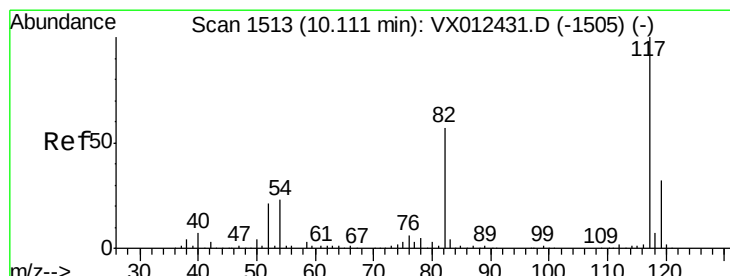
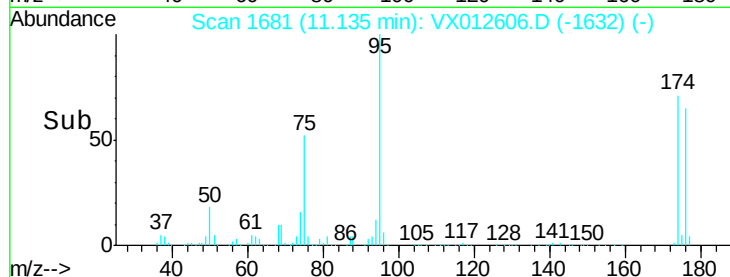
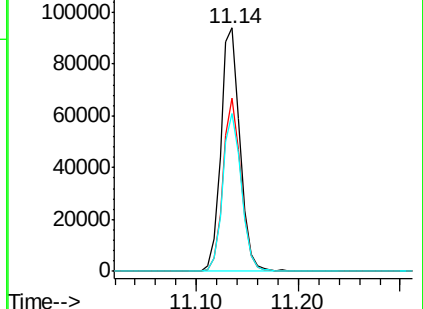
176 63.2 0.0 135.4



Abundance Ion 94.90 (94.60 to 95.60): VX012606.D (-1632) (-)

Ion 173.80 (173.50 to 174.50): VX012606.D (-1632) (-)

Ion 175.80 (175.50 to 176.50): VX012606.D (-1632) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VX012606.D

Acq: 23 Sep 2019 15:57

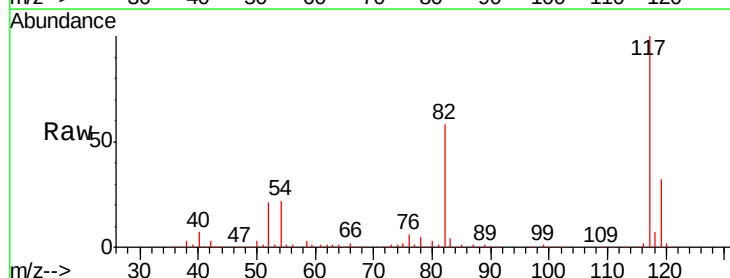
Tgt Ion: 117 Resp: 249914

Ion Ratio Lower Upper

117 100

82 57.9 45.9 68.9

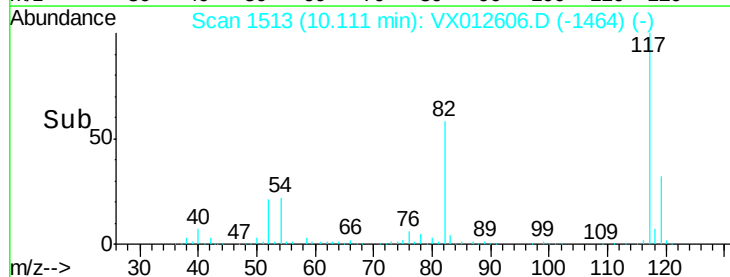
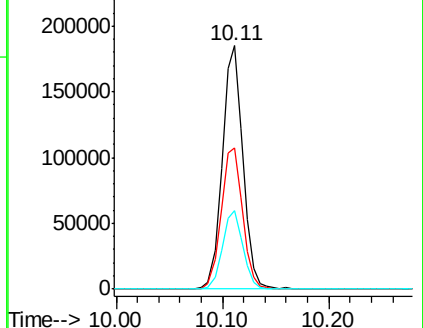
119 32.2 25.3 37.9

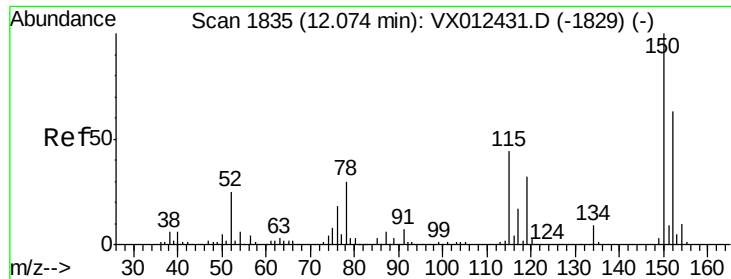


Abundance Ion 116.90 (116.60 to 117.60): VX012606.D (-1464) (-)

Ion 82.00 (81.70 to 82.70): VX012606.D (-1464) (-)

Ion 118.90 (118.60 to 119.60): VX012606.D (-1464) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VX012606.D

Acq: 23 Sep 2019 15:57

Instrument :

MSVOA_X

ClientSampleId :

STORAGE-BLANK-WATER-REF-4

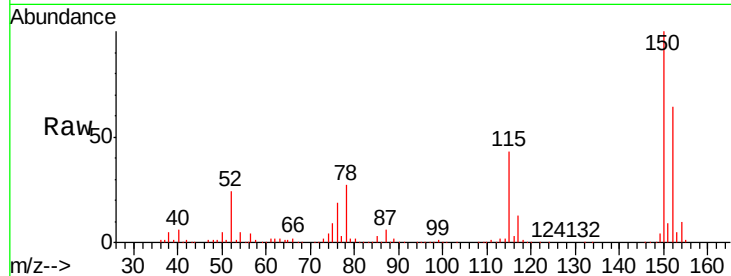
Tgt Ion:152 Resp: 95349

Ion Ratio Lower Upper

152 100

115 66.1 44.1 132.3

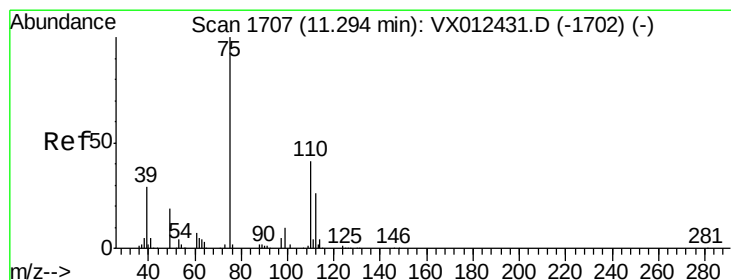
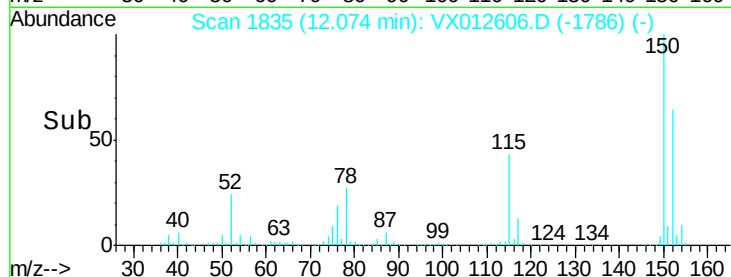
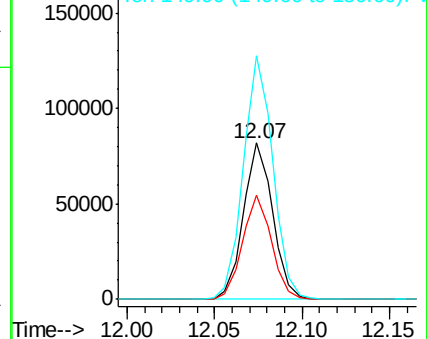
150 157.2 0.0 343.8



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 25.026 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.16 min

Lab File: VX012606.D

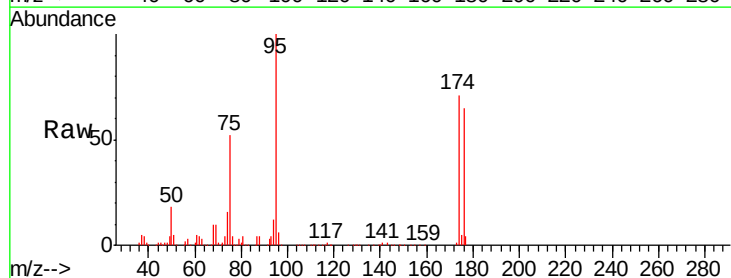
Acq: 23 Sep 2019 15:57

Tgt Ion: 75 Resp: 63121

Ion Ratio Lower Upper

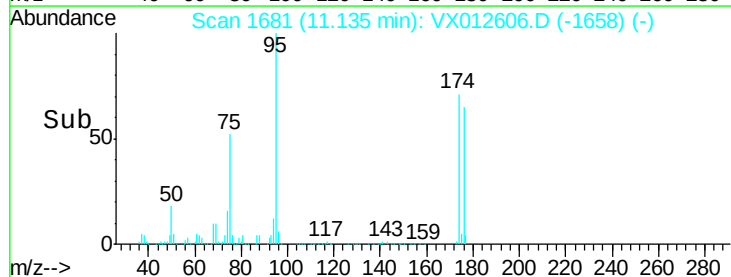
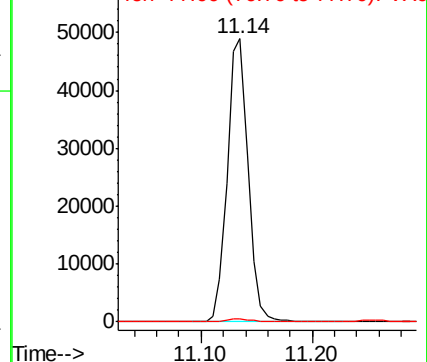
75 100

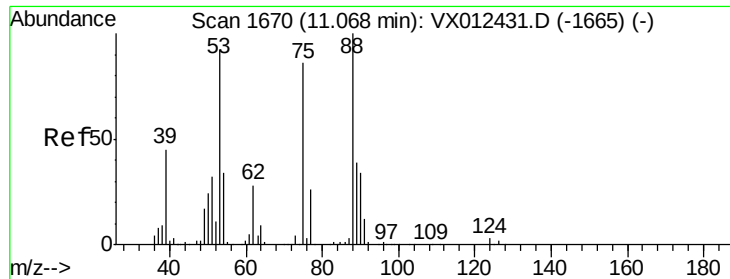
77 1.1 19.7 59.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 71.719 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.07 min

Lab File: VX012606.D

Acq: 23 Sep 2019 15:57

Instrument :

MSVOA_X

ClientSampleId :

STORAGE-BLANK-WATER-REF-4

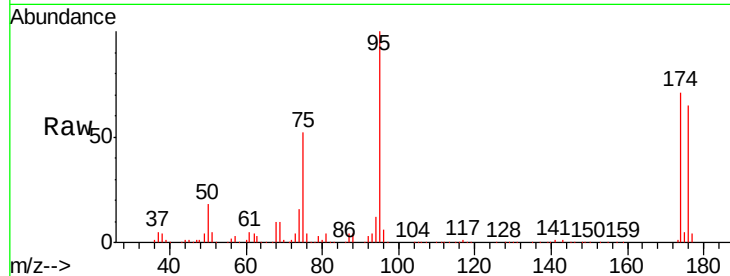
Tgt Ion: 75 Resp: 63121

Ion Ratio Lower Upper

75 100

53 0.0 83.6 125.4#

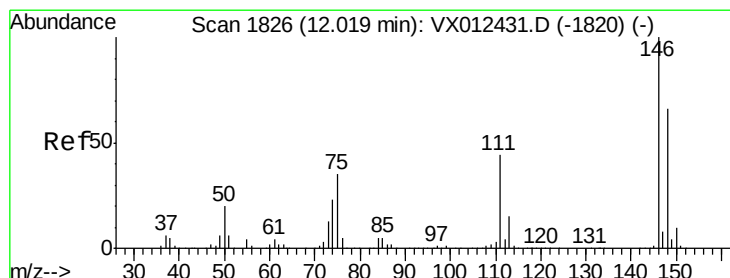
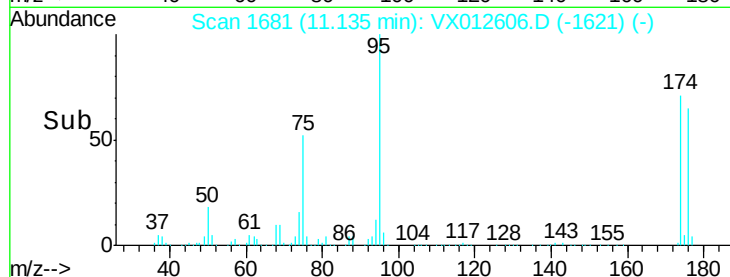
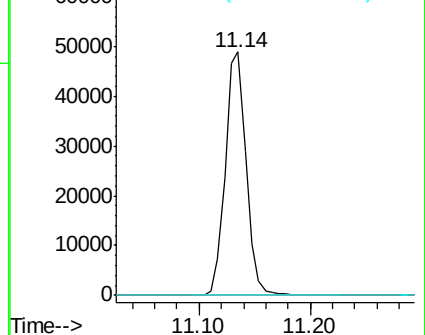
89 0.0 36.3 54.5#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0



#87

1,3-Dichlorobenzene

Concen: 0.214 ug/l

RT: 12.03 min Scan# 1827

Delta R.T. 0.01 min

Lab File: VX012606.D

Acq: 23 Sep 2019 15:57

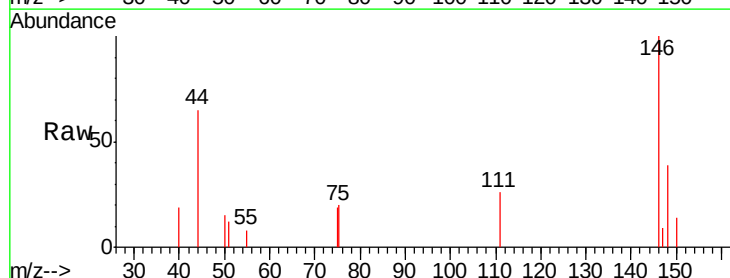
Tgt Ion: 146 Resp: 676

Ion Ratio Lower Upper

146 100

111 44.2 21.3 64.0

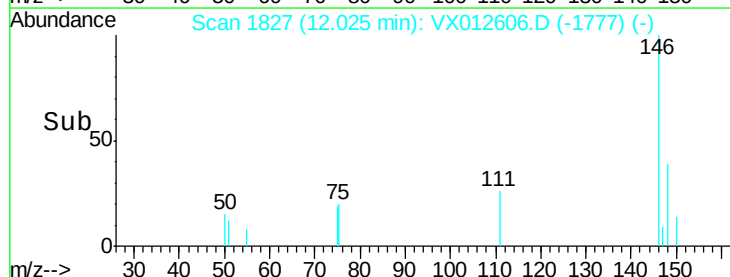
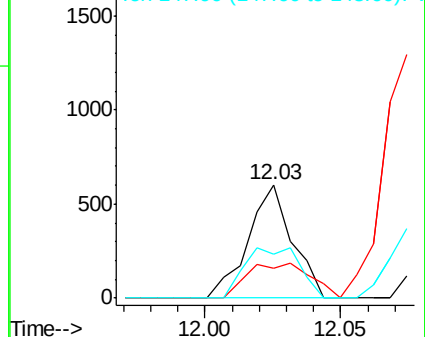
148 55.6 32.4 97.2

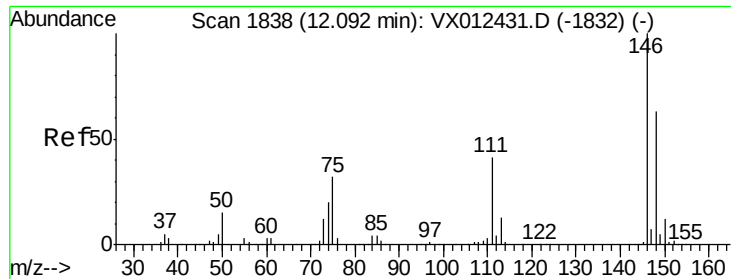


Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

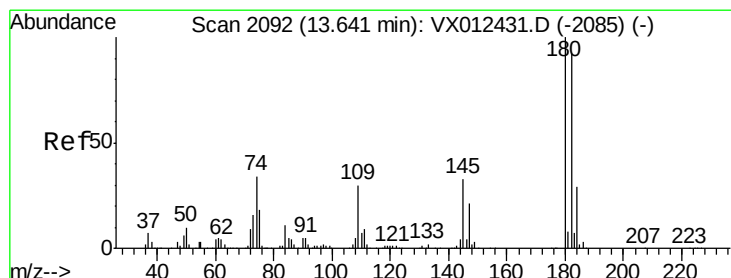
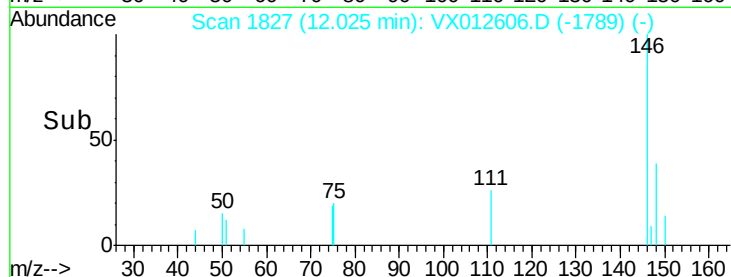
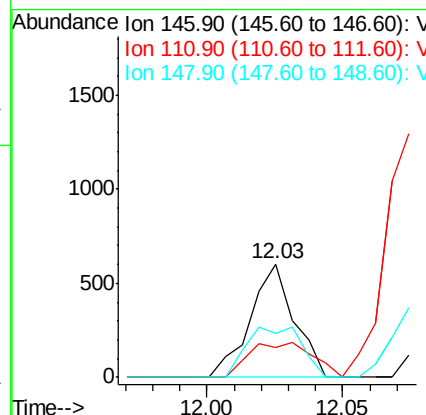
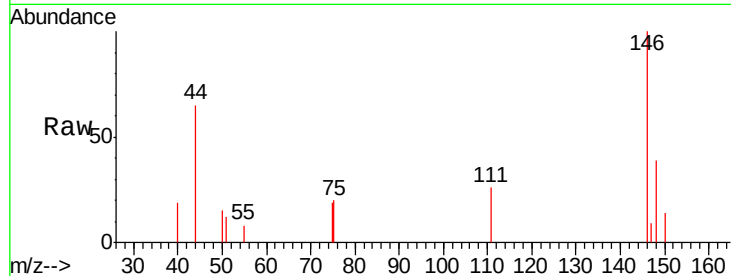




#88
 1,4-Dichlorobenzene
 Concen: 0.211 ug/l
 RT: 12.03 min Scan# 1827
 Delta R.T. -0.07 min
 Lab File: VX012606.D
 Acq: 23 Sep 2019 15:57

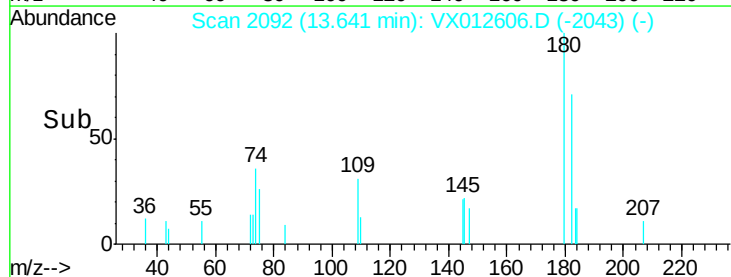
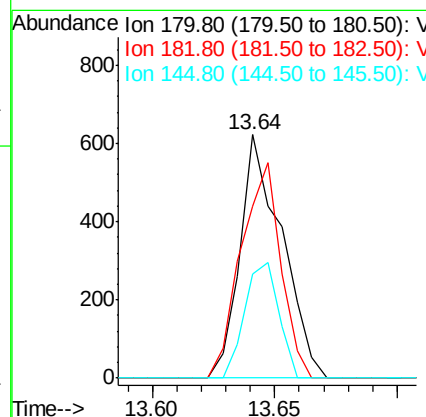
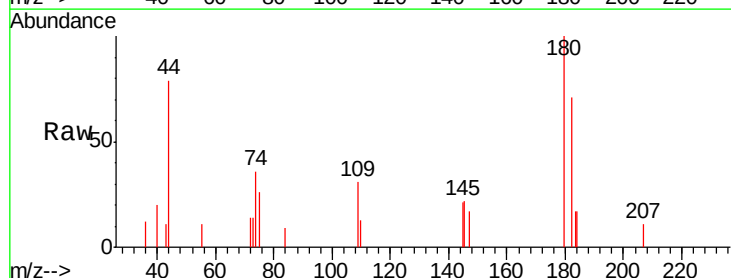
Instrument :
 MSVOA_X
 ClientSampleId :
 STORAGE-BLANK-WATER-REF-4

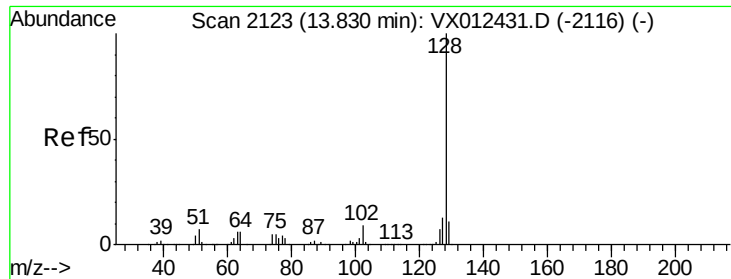
Tgt Ion:146 Resp: 676
 Ion Ratio Lower Upper
 146 100
 111 44.2 21.1 63.3
 148 55.6 32.1 96.5



#93
 1,2,4-Trichlorobenzene
 Concen: 0.383 ug/l
 RT: 13.64 min Scan# 2092
 Delta R.T. 0.00 min
 Lab File: VX012606.D
 Acq: 23 Sep 2019 15:57

Tgt Ion:180 Resp: 739
 Ion Ratio Lower Upper
 180 100
 182 84.3 47.0 141.0
 145 38.7 16.8 50.4

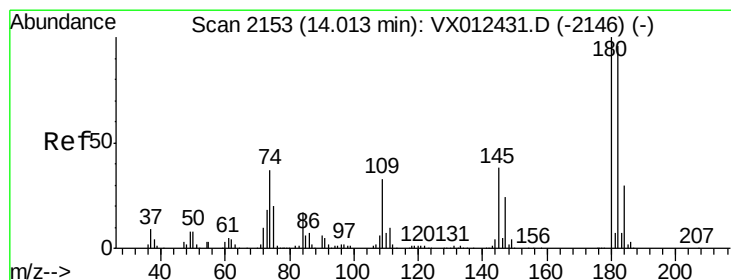
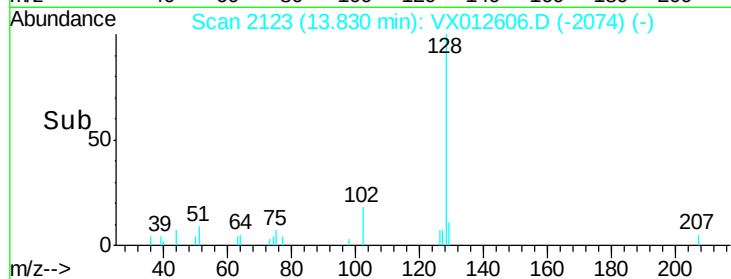
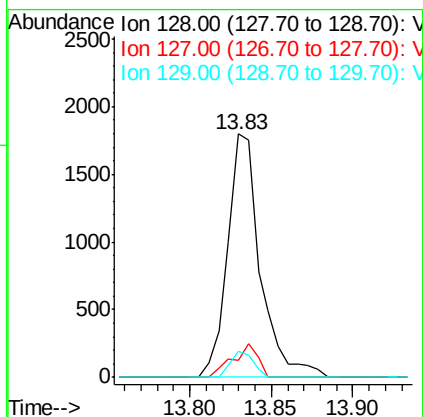
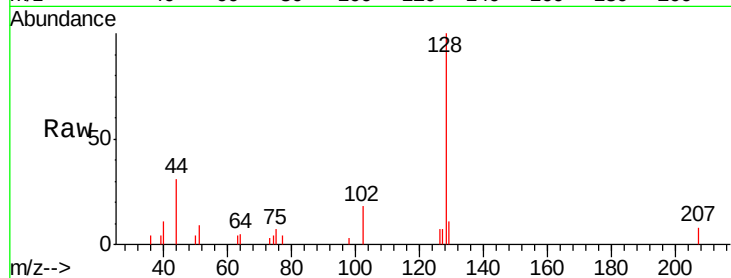




#95
Naphthalene
Concen: 0.358 ug/l
RT: 13.83 min Scan# 2123
Delta R.T. 0.00 min
Lab File: VX012606.D
Acq: 23 Sep 2019 15:57

Instrument :
MSVOA_X
ClientSampleId :
STORAGE-BLANK-WATER-REF-4

Tgt Ion:128 Resp: 2503
Ion Ratio Lower Upper
128 100
127 10.6 10.2 15.4
129 7.4 8.8 13.2#



#96
1,2,3-Trichlorobenzene
Concen: 0.222 ug/l
RT: 14.02 min Scan# 2154
Delta R.T. 0.01 min
Lab File: VX012606.D
Acq: 23 Sep 2019 15:57

Tgt Ion:180 Resp: 430
Ion Ratio Lower Upper
180 100
182 111.6 47.1 141.3
145 46.5 18.0 54.0

