

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX032618\
 Data File : VX000443.D
 Acq On : 26 Mar 2018 16:16
 Operator : JC/MD
 Sample : J1760-08 5X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Mar 27 05:53:18 2018
 Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\82X032018W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 21 04:52:42 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.68	168	120786	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	215958	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	207227	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	98363	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.08	65	92017	58.36	ug/l	0.00
Spiked Amount			Recovery	=	116.72%	
35) Dibromofluoromethane	5.51	113	70282	51.65	ug/l	0.00
Spiked Amount			Recovery	=	103.30%	
50) Toluene-d8	8.73	98	267457	47.46	ug/l	0.00
Spiked Amount			Recovery	=	94.92%	
62) 4-Bromofluorobenzene	11.15	95	89597	39.15	ug/l	0.00
Spiked Amount			Recovery	=	78.30%	

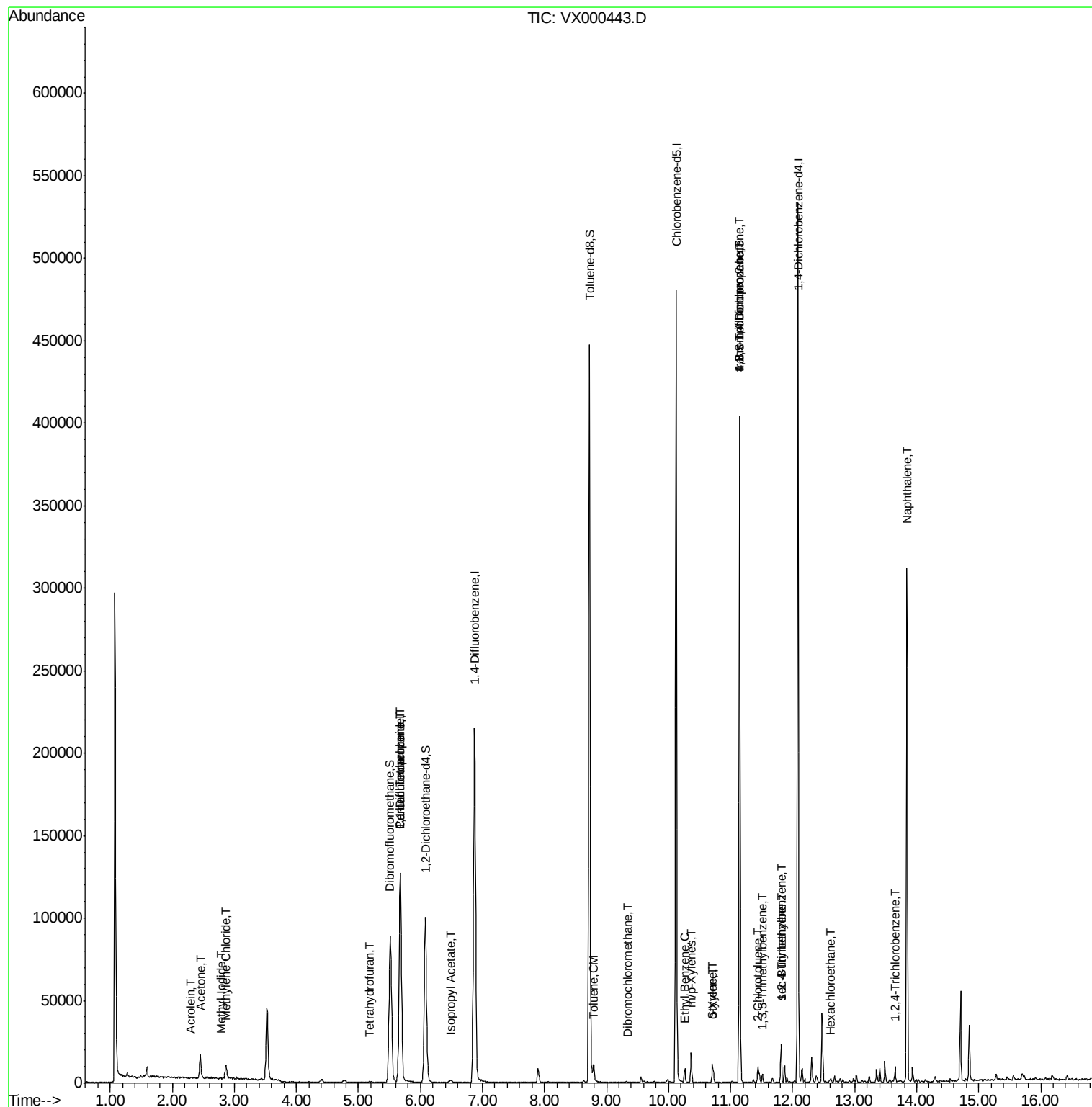
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) Chloroethane	1.71	64	135	Below Cal	#	44
10) Methyl Iodide	2.78	142	52	4.308	ug/l #	37
13) Acrolein	2.30	56	68	14.948	ug/l #	76
14) Allyl chloride	2.73	41	124	Below Cal	#	38
16) Acetone	2.45	43	14793	11.279	ug/l	99
20) Methylene Chloride	2.86	84	3361	2.219	ug/l #	88
29) Tetrahydrofuran	5.18	42	258	0.284	ug/l #	39
36) 1,1-Dichloropropene	5.68	75	9482	4.687	ug/l #	49
38) Carbon Tetrachloride	5.67	117	11887	5.601	ug/l #	17
43) Isopropyl Acetate	6.48	43	1798	0.437	ug/l #	83
52) Toluene	8.79	92	3044	0.741	ug/l	99
60) Dibromochloromethane	9.35	129	27	4.129	ug/l #	12
67) Ethyl Benzene	10.26	91	5406	0.692	ug/l	94
68) m/p-Xylenes	10.37	106	4185	1.360	ug/l	95
69) o-Xylene	10.71	106	2036	0.684	ug/l	74
70) Styrene	10.72	104	2519	0.511	ug/l	98
74) N-amyl acetate	6.48	43	1798	Below Cal	#	88
76) 1,2,3-Trichloropropane	11.15	75	51404	24.317	ug/l #	35
79) 2-Chlorotoluene	11.44	91	1001	0.223	ug/l #	39
80) 1,3,5-Trimethylbenzene	11.52	105	2263	0.413	ug/l	94
81) trans-1,4-Dichloro-2-buten	11.15	75	51404	78.727	ug/l #	9
84) 1,2,4-Trimethylbenzene	11.82	105	9340	1.626	ug/l	95
85) sec-Butylbenzene	11.82	105	9340	1.366	ug/l #	56
90) Hexachloroethane	12.60	117	230	0.241	ug/l #	12
93) 1,2,4-Trichlorobenzene	13.65	180	1937	0.840	ug/l	91
95) Naphthalene	13.84	128	177495	22.084	ug/l	100

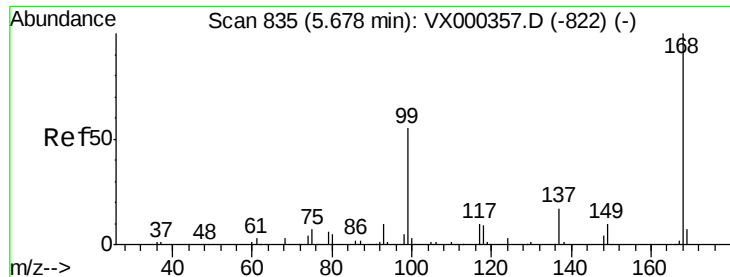
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Mar 21 04:52:42 2018
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.68 min Scan# 835

Delta R.T. -0.00 min

Lab File: VX000443.D

Acq: 26 Mar 2018 16:16

Instrument :

MSVOA_X

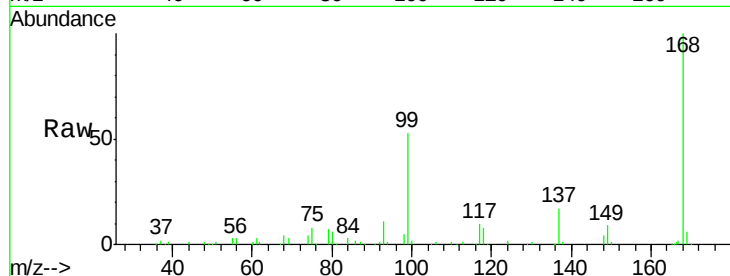
ClientSampleId :

Tot Ion:168 Resp: 120786

Ion Ratio Lower Upper

168 100

99 52.7 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.68

40000

30000

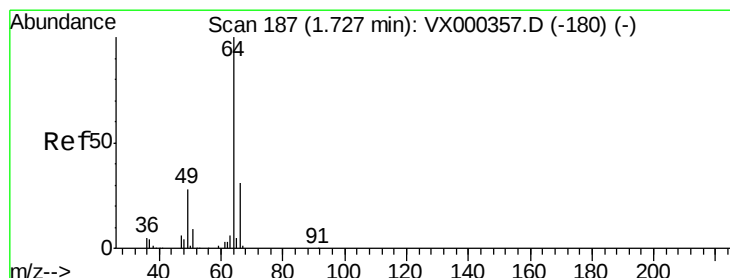
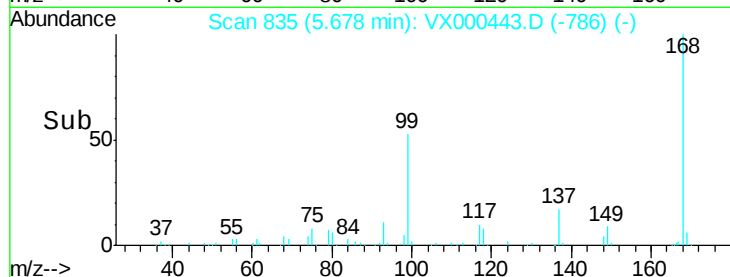
20000

10000

0

5.60 5.70 5.80

Time-->



#6

Chloroethane

Concen: Below Cal

RT: 1.71 min Scan# 185

Delta R.T. -0.01 min

Lab File: VX000443.D

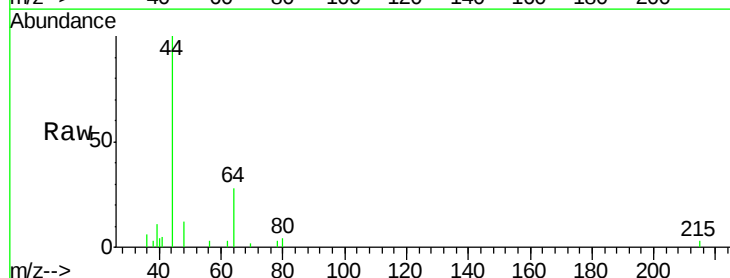
Acq: 26 Mar 2018 16:16

Tgt Ion: 64 Resp: 135

Ion Ratio Lower Upper

64 100

66 0.0 24.8 37.2#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.71

600

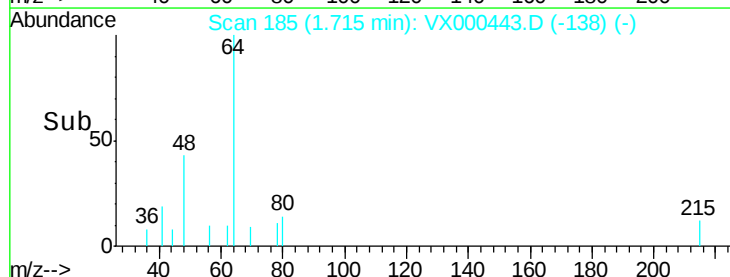
400

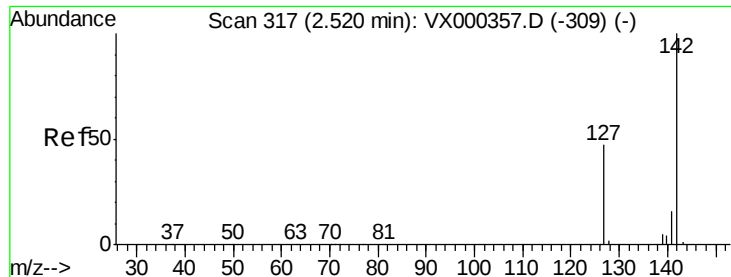
200

0

1.70 1.71 1.72

Time-->

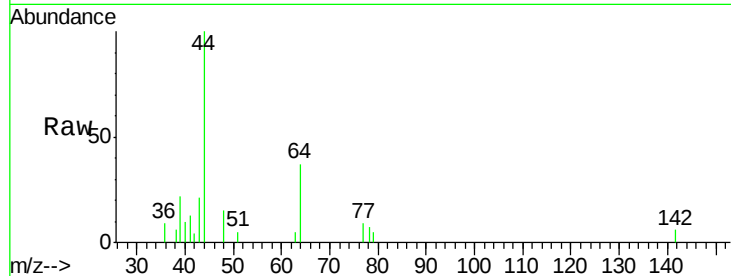




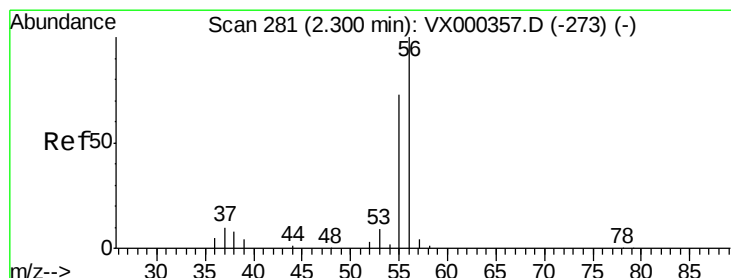
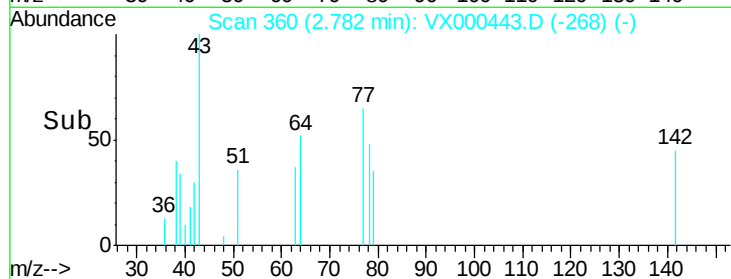
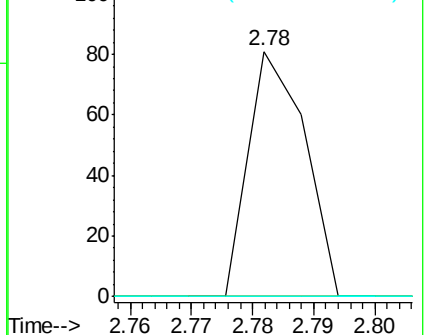
#10
Methyl Iodide
Concen: 4.308 ug/l
RT: 2.78 min Scan# 360
Delta R.T. 0.26 min
Lab File: VX000443.D
Acq: 26 Mar 2018 16:16

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:142 Resp: 52
Ion Ratio Lower Upper
142 100
127 0.0 39.2 58.8#
141 0.0 11.7 17.5#

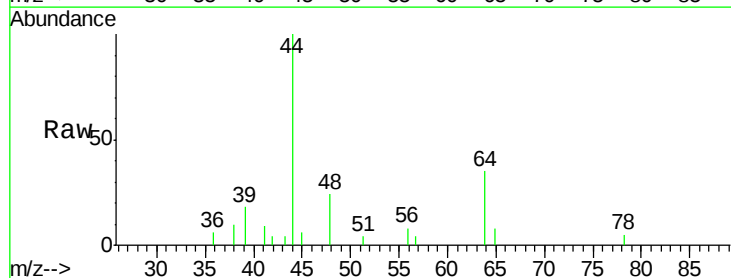


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

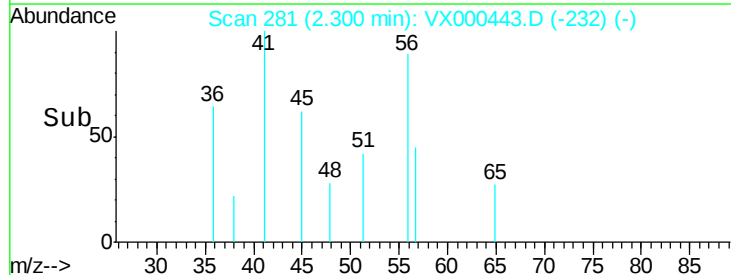
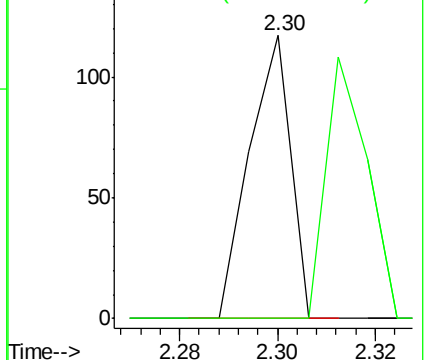


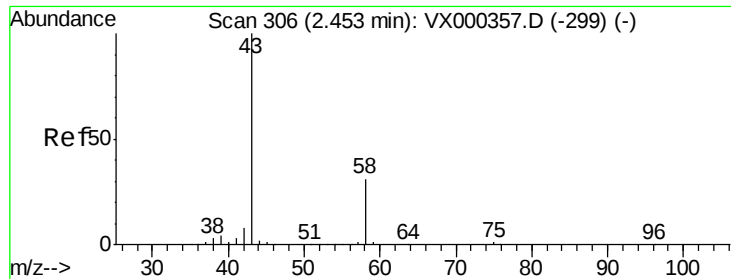
#13
Acrolein
Concen: 14.948 ug/l
RT: 2.30 min Scan# 281
Delta R.T. 0.00 min
Lab File: VX000443.D
Acq: 26 Mar 2018 16:16

Tgt Ion: 56 Resp: 68
Ion Ratio Lower Upper
56 100
55 94.1 58.8 88.2#



Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 55.00 (54.70 to 55.70): VX0





#16

Acetone

Concen: 11.279 ug/l

RT: 2.45 min Scan# 306

Delta R.T. -0.00 min

Lab File: VX000443.D

Acq: 26 Mar 2018 16:16

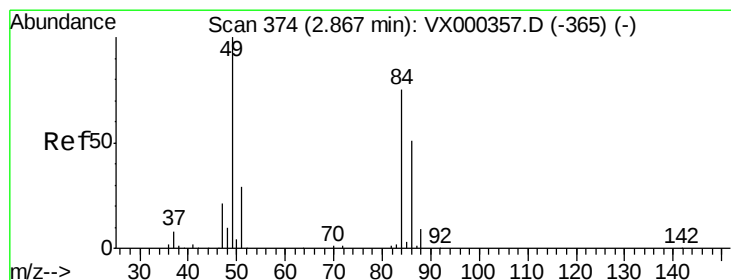
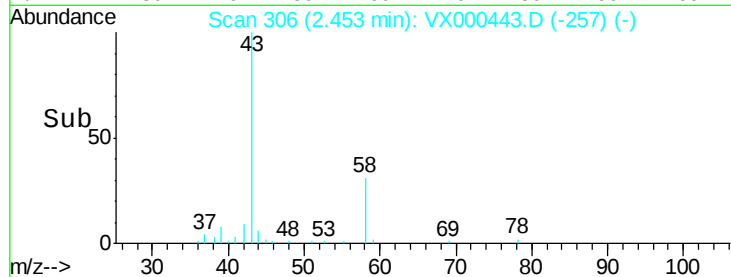
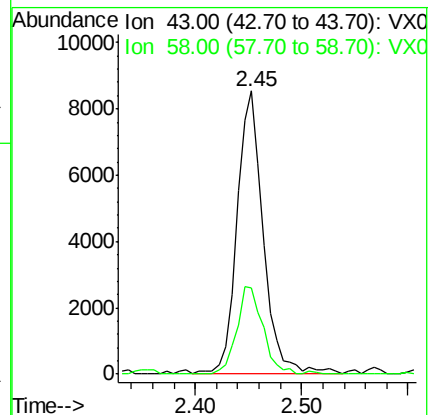
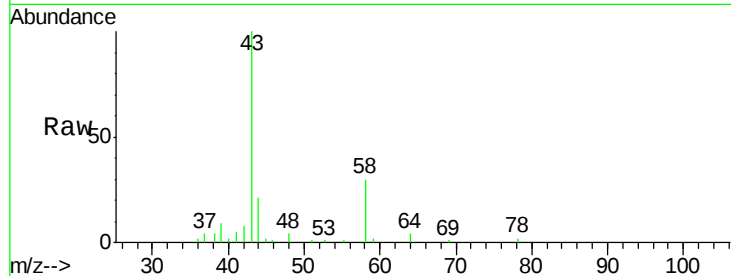
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 43 Resp: 14793

Ion Ratio Lower Upper

43 100

58 30.4 24.7 37.1



#20

Methylene Chloride

Concen: 2.219 ug/l

RT: 2.86 min Scan# 373

Delta R.T. -0.01 min

Lab File: VX000443.D

Acq: 26 Mar 2018 16:16

Tgt Ion: 84 Resp: 3361

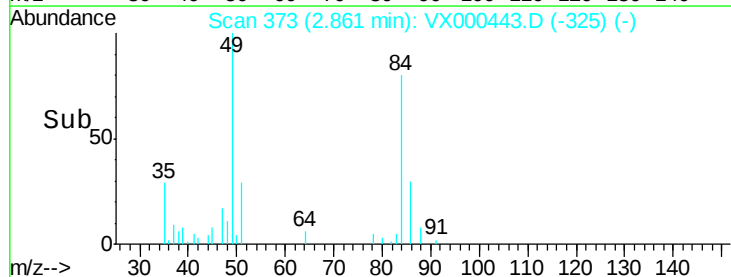
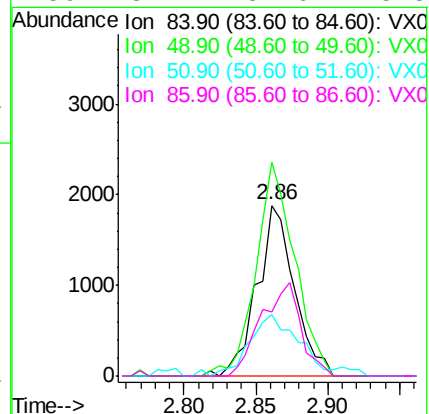
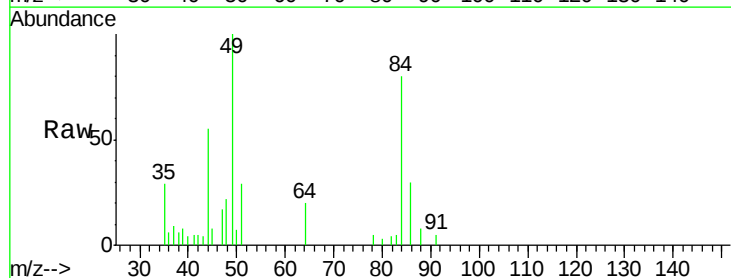
Ion Ratio Lower Upper

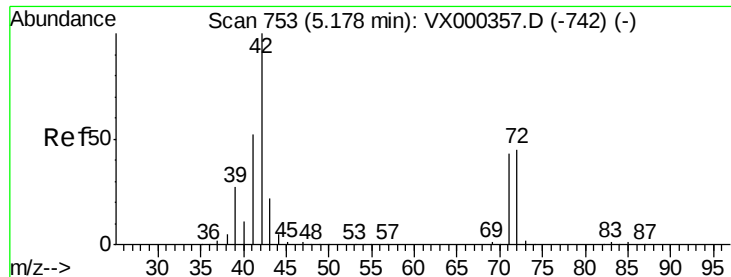
84 100

49 125.2 100.6 151.0

51 35.9 31.6 47.4

86 37.2 52.6 78.8#

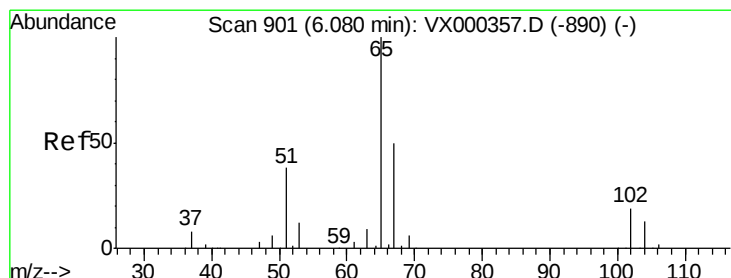
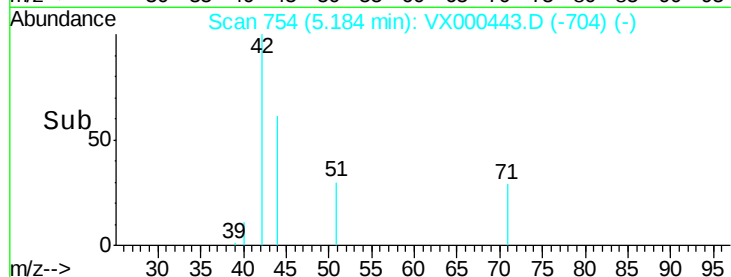
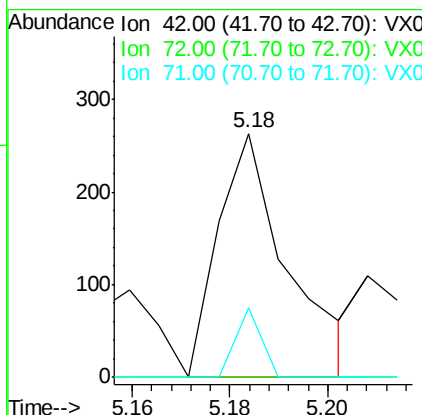
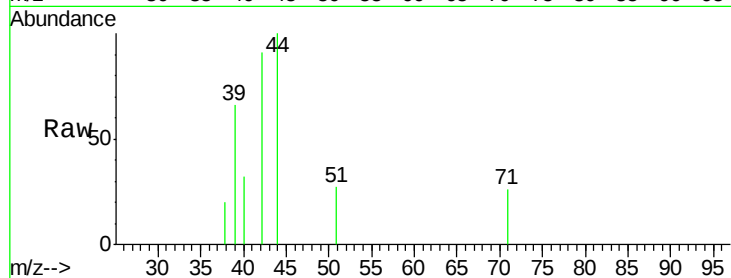




#29
Tetrahydrofuran
Concen: 0.284 ug/l
RT: 5.18 min Scan# 754
Delta R.T. 0.01 min
Lab File: VX000443.D
Acq: 26 Mar 2018 16:16

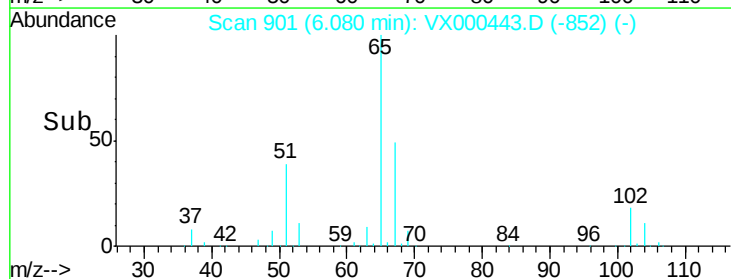
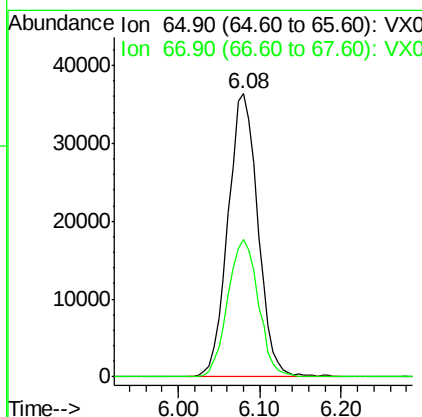
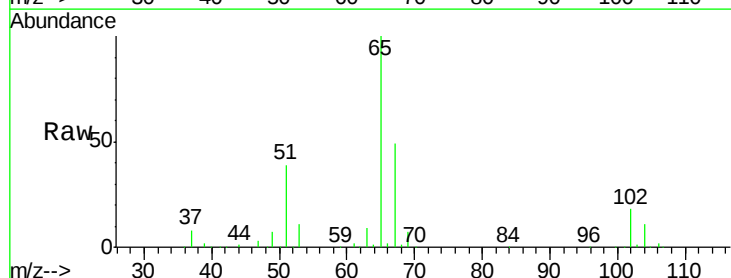
Instrument :
MSVOA_X
ClientSampleId :

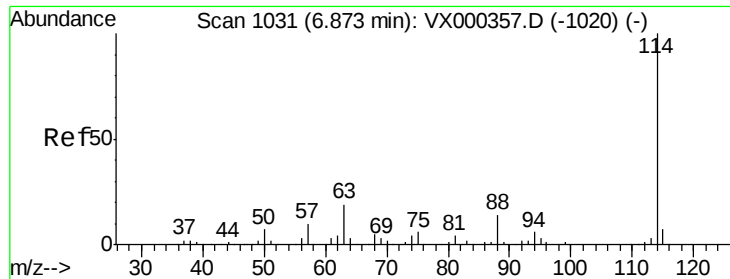
Tot Ion: 42 Resp: 258
Ion Ratio Lower Upper
42 100
72 0.0 37.9 56.9#
71 10.5 34.4 51.6#



#33
1,2-Dichloroethane-d4
Concen: 58.361 ug/l
RT: 6.08 min Scan# 901
Delta R.T. -0.00 min
Lab File: VX000443.D
Acq: 26 Mar 2018 16:16

Tgt Ion: 65 Resp: 92017
Ion Ratio Lower Upper
65 100
67 49.8 0.0 103.2

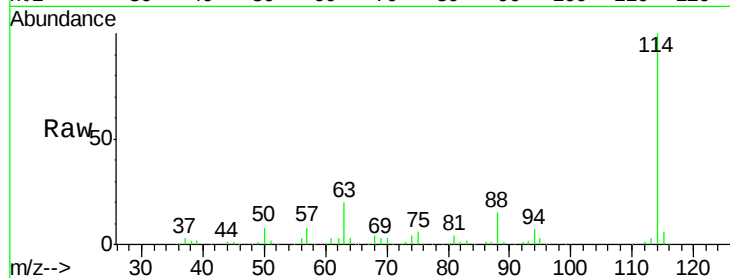




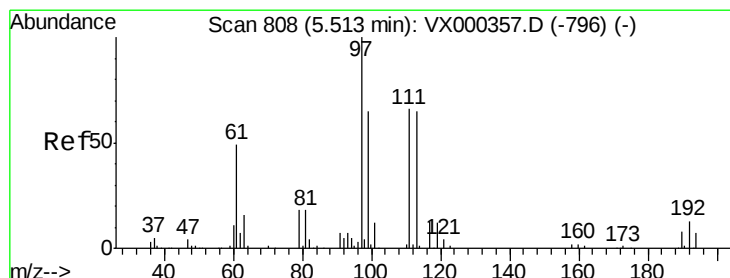
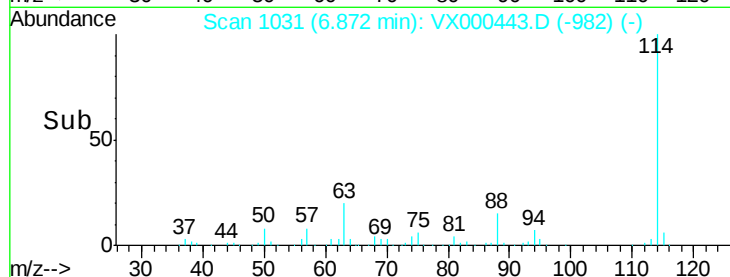
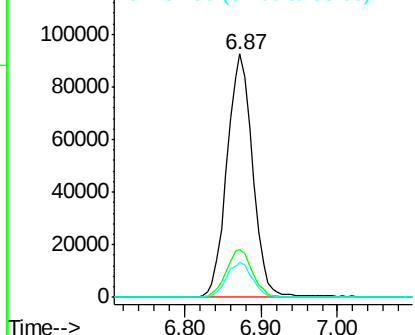
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.87 min Scan# 1031
 Delta R.T. -0.00 min
 Lab File: VX000443.D
 Acq: 26 Mar 2018 16:16

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion:114 Resp: 215958
 Ion Ratio Lower Upper
 114 100
 63 19.5 0.0 38.4
 88 14.5 0.0 27.0

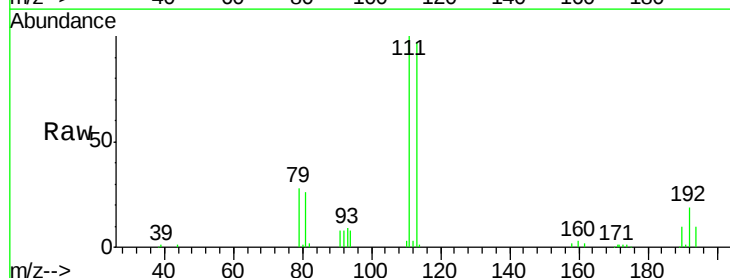


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX
 Ion 87.90 (87.60 to 88.60): VX

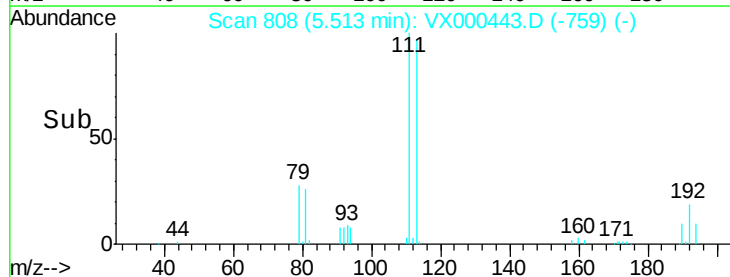
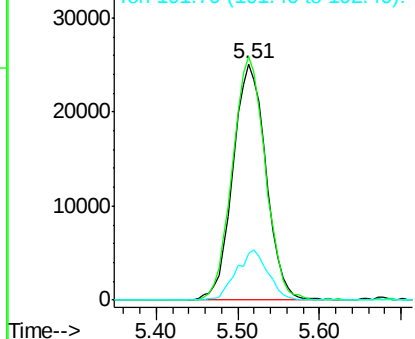


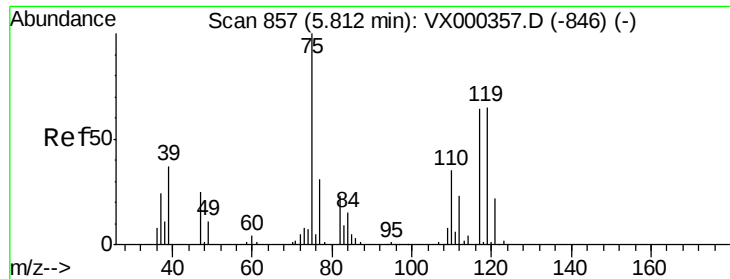
#35
 Dibromofluoromethane
 Concen: 51.650 ug/l
 RT: 5.51 min Scan# 808
 Delta R.T. -0.00 min
 Lab File: VX000443.D
 Acq: 26 Mar 2018 16:16

Tgt Ion:113 Resp: 70282
 Ion Ratio Lower Upper
 113 100
 111 102.5 82.4 123.6
 192 20.5 15.8 23.6



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

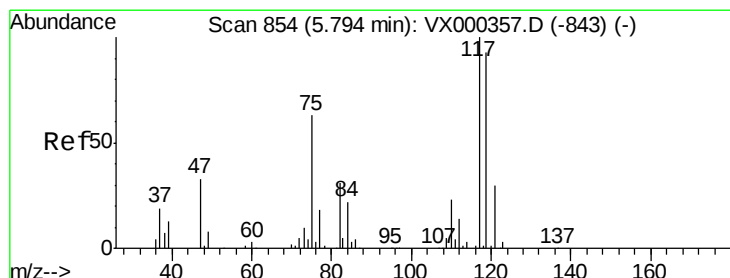
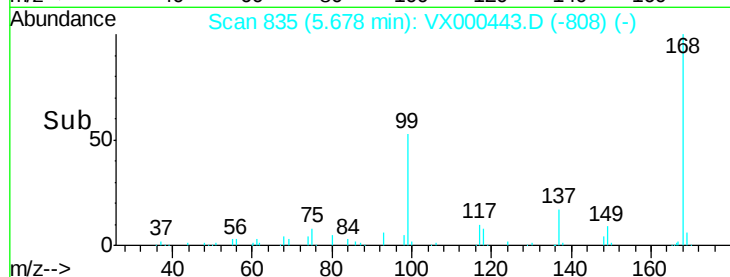
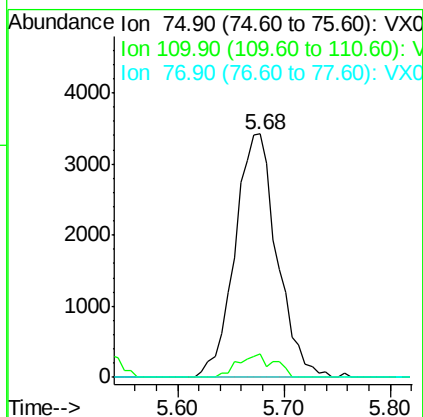
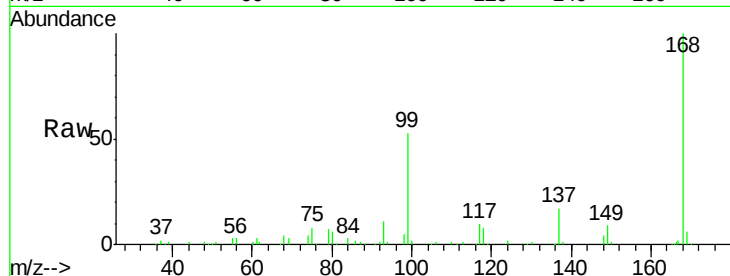




#36
 1,1-Dichloropropene
 Concen: 4.687 ug/l
 RT: 5.68 min Scan# 835
 Delta R.T. -0.13 min
 Lab File: VX000443.D
 Acq: 26 Mar 2018 16:16

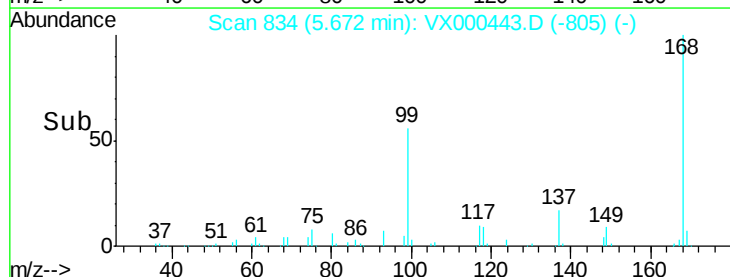
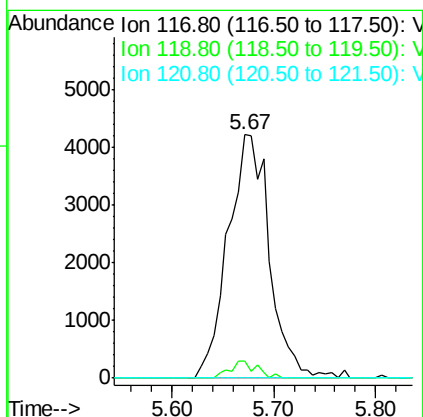
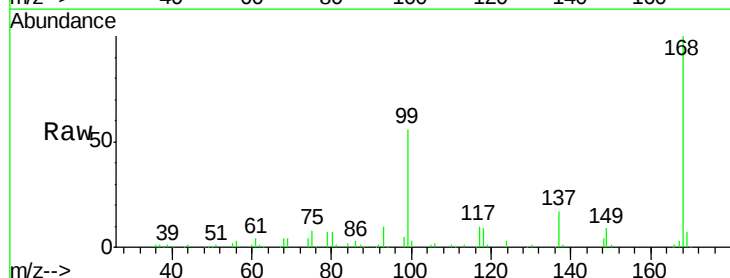
Instrument :
 MSVOA_X
 ClientSampleId :

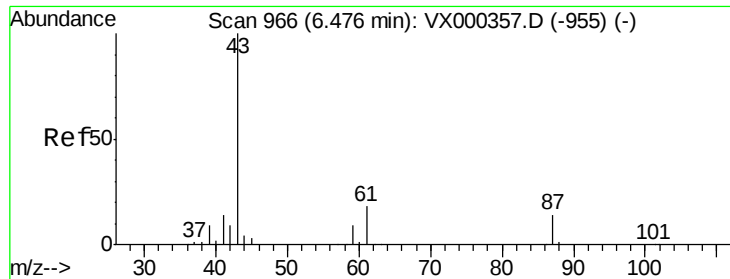
Tot Ion	75	Resp	9482
Ion Ratio	Lower	Upper	
75	100		
110	8.3	17.9	53.7#
77	0.0	24.0	36.0#



#38
 Carbon Tetrachloride
 Concen: 5.601 ug/l
 RT: 5.67 min Scan# 834
 Delta R.T. -0.12 min
 Lab File: VX000443.D
 Acq: 26 Mar 2018 16:16

Tgt Ion	117	Resp	11887
Ion Ratio	Lower	Upper	
117	100		
119	6.9	77.4	116.2#
121	0.0	24.8	37.2#



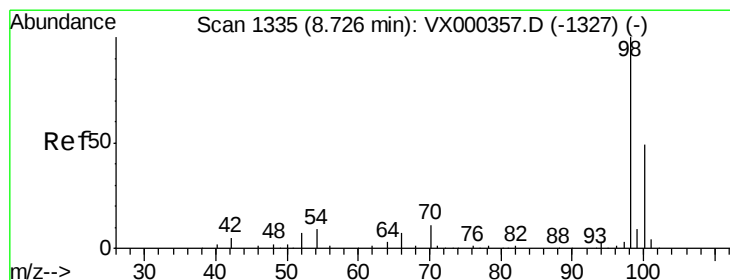
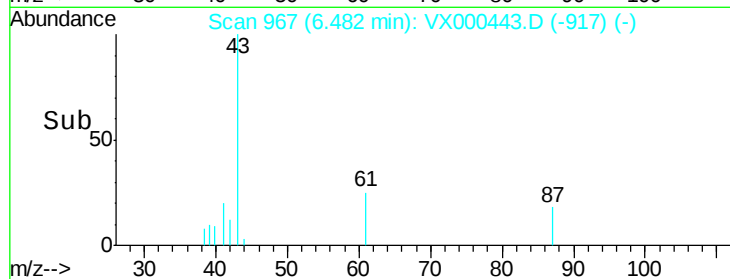
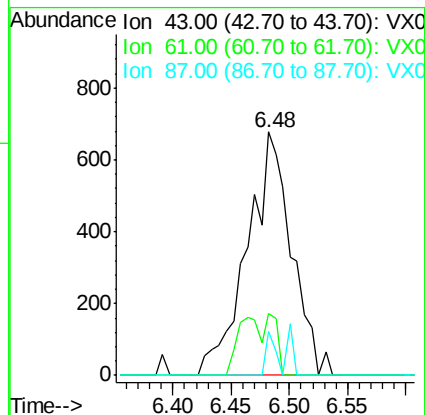
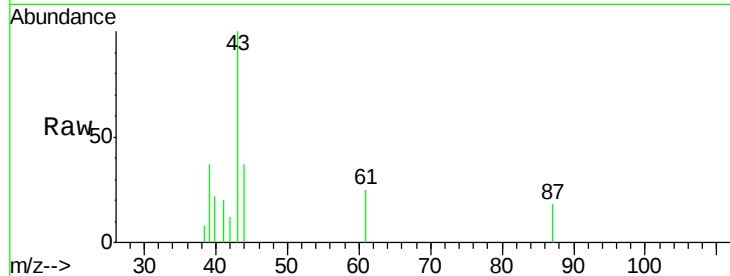


#43

Isopropyl Acetate
 Concen: 0.437 ug/l
 RT: 6.48 min Scan# 967
 Delta R.T. 0.01 min
 Lab File: VX000443.D
 Acq: 26 Mar 2018 16:16

Instrument :
 MSVOA_X
 ClientSampleId :

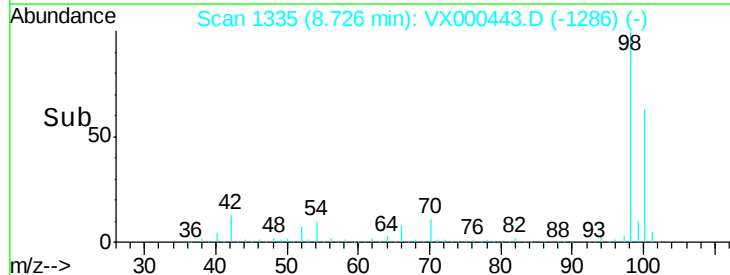
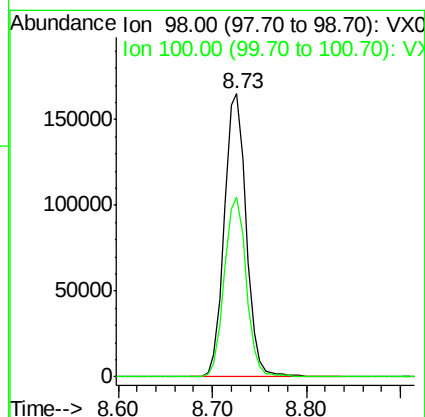
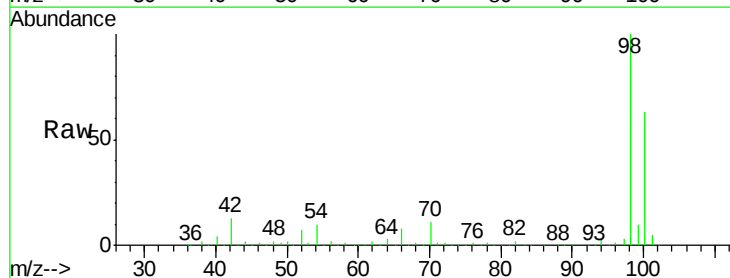
Tot Ion: 43 Resp: 1798
 Ion Ratio Lower Upper
 43 100
 61 12.7 14.4 21.6#
 87 3.8 11.0 16.4#

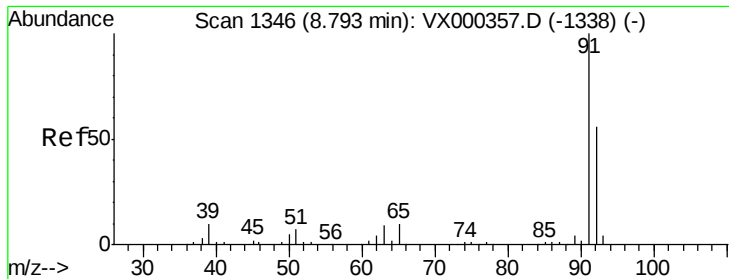


#50

Toluene-d8
 Concen: 47.458 ug/l
 RT: 8.73 min Scan# 1335
 Delta R.T. -0.00 min
 Lab File: VX000443.D
 Acq: 26 Mar 2018 16:16

Tgt Ion: 98 Resp: 267457
 Ion Ratio Lower Upper
 98 100
 100 63.7 51.2 76.8





#52

Toluene

Concen: 0.741 ug/l

RT: 8.79 min Scan# 1346

Delta R.T. -0.00 min

Lab File: VX000443.D

Acq: 26 Mar 2018 16:16

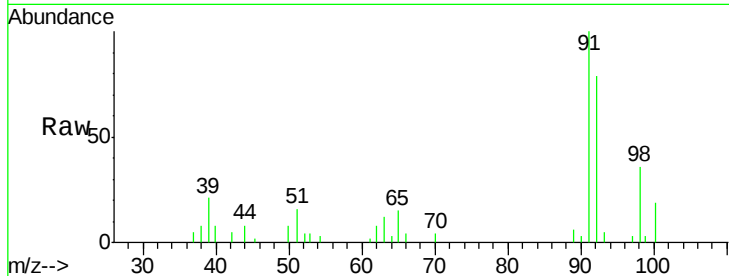
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 92 Resp: 3044

Ion Ratio Lower Upper

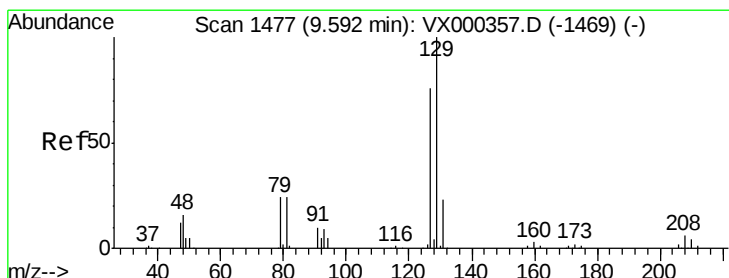
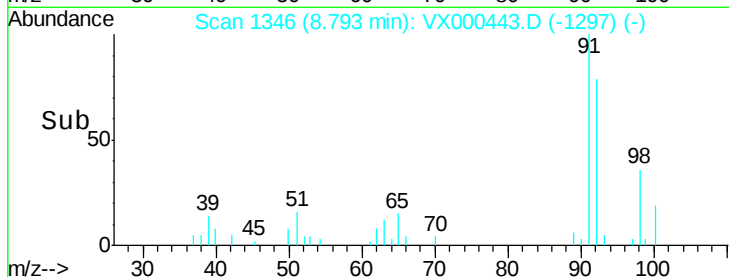
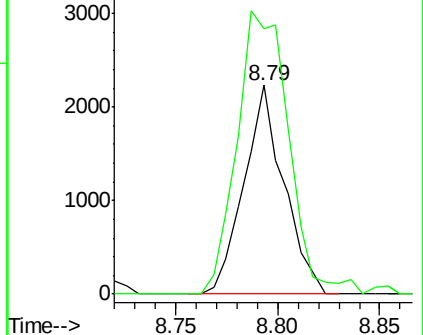
92 100

91 176.7 140.2 210.2



Abundance Ion 92.00 (91.70 to 92.70): VX000357.D (-1338) (-)

Ion 91.00 (90.70 to 91.70): VX000357.D (-1338) (-)



#60

Dibromochloromethane

Concen: 4.129 ug/l

RT: 9.35 min Scan# 1437

Delta R.T. -0.24 min

Lab File: VX000443.D

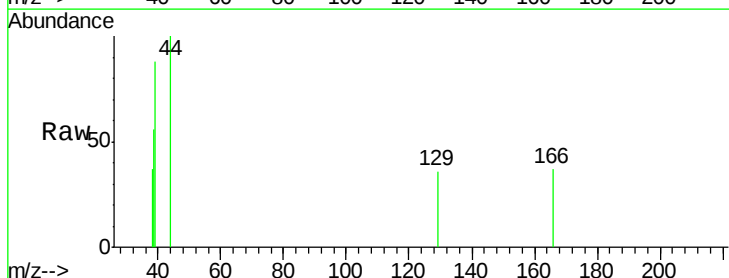
Acq: 26 Mar 2018 16:16

Tgt Ion: 129 Resp: 27

Ion Ratio Lower Upper

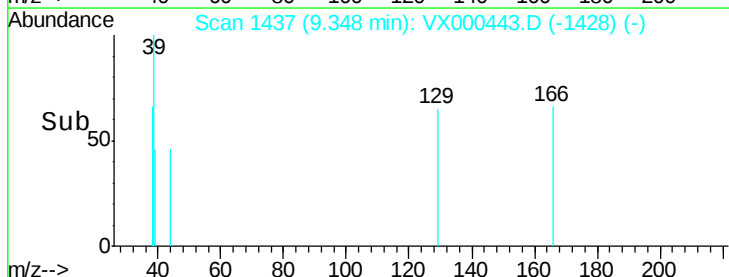
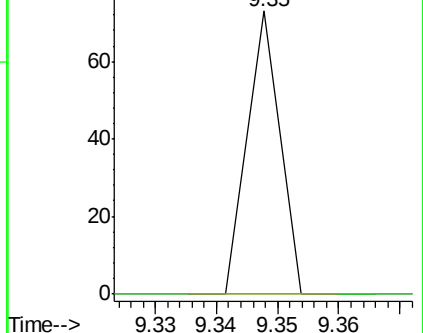
129 100

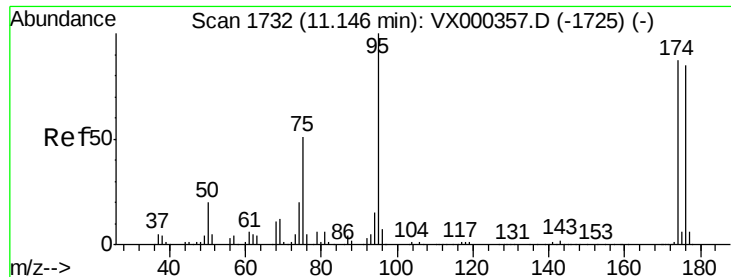
127 0.0 37.9 113.6#



Abundance Ion 128.80 (128.50 to 129.50): VX000357.D (-1469) (-)

Ion 126.80 (126.50 to 127.50): VX000357.D (-1469) (-)





#62

4-Bromofluorobenzene

Concen: 39.154 ug/l

RT: 11.15 min Scan# 1732

Delta R.T. 0.00 min

Lab File: VX000443.D

Acq: 26 Mar 2018 16:16

Instrument :

MSVOA_X

ClientSampled :

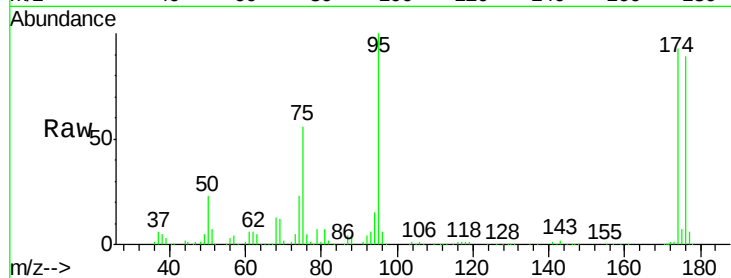
Tot Ion: 95 Resp: 89597

Ion Ratio Lower Upper

95 100

174 89.2 0.0 173.6

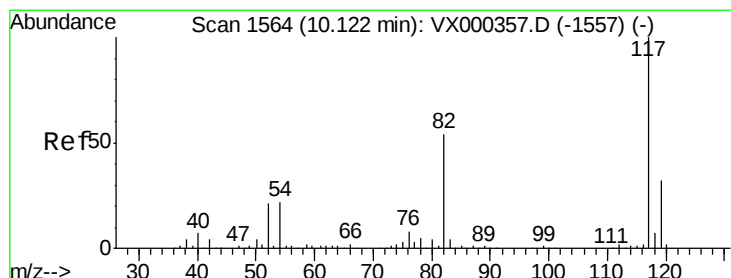
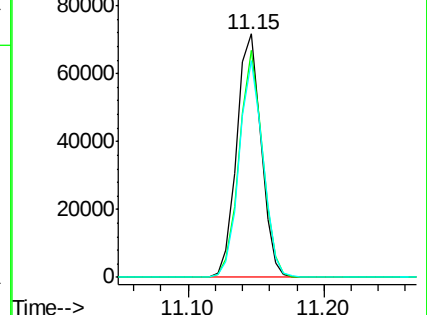
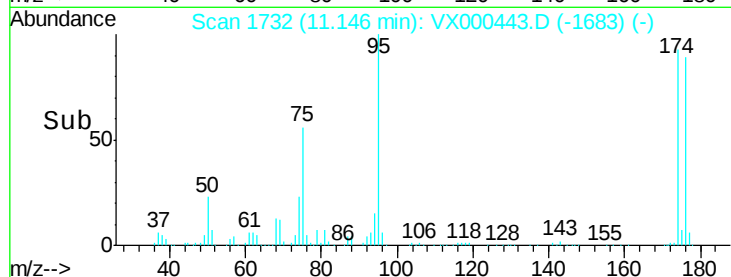
176 86.8 0.0 164.6



Abundance Ion 94.90 (94.60 to 95.60): VX000443.D (-1683) (-)

Ion 173.80 (173.50 to 174.50): VX000443.D (-1683) (-)

Ion 175.80 (175.50 to 176.50): VX000443.D (-1683) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.12 min Scan# 1564

Delta R.T. -0.00 min

Lab File: VX000443.D

Acq: 26 Mar 2018 16:16

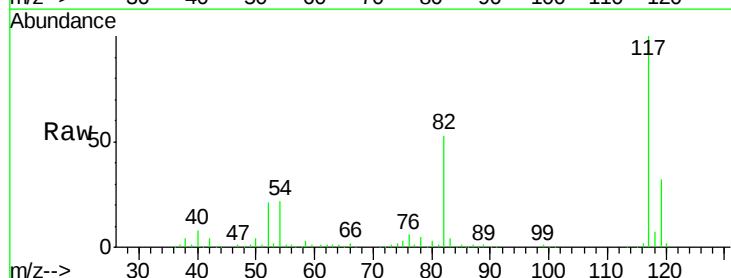
Tgt Ion: 117 Resp: 207227

Ion Ratio Lower Upper

117 100

82 53.1 43.8 65.8

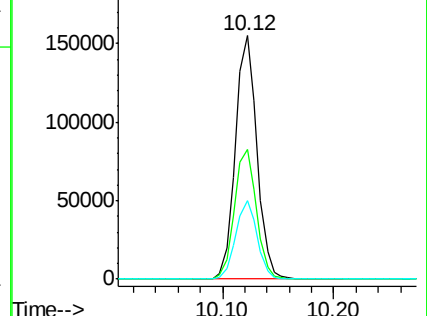
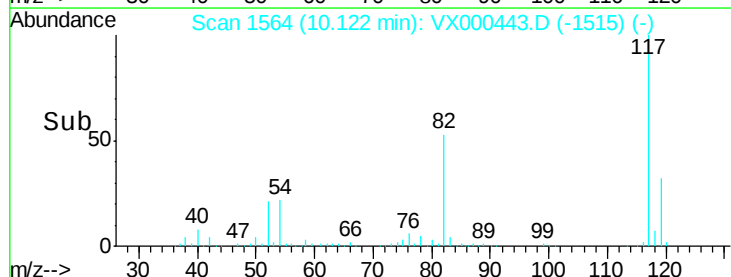
119 32.5 24.9 37.3

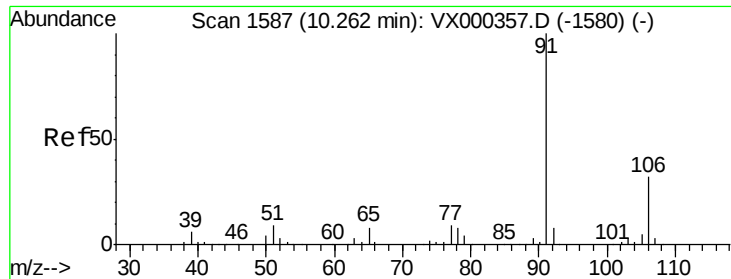


Abundance Ion 116.90 (116.60 to 117.60): VX000443.D (-1515) (-)

Ion 82.00 (81.70 to 82.70): VX000443.D (-1515) (-)

Ion 118.90 (118.60 to 119.60): VX000443.D (-1515) (-)

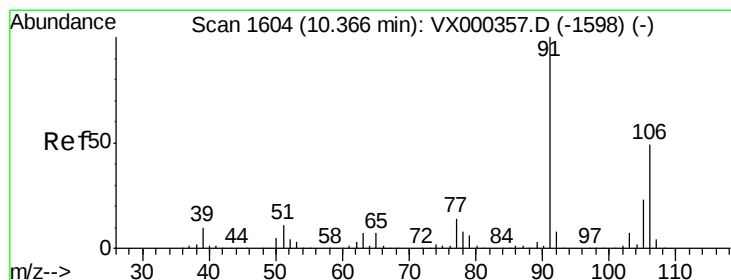
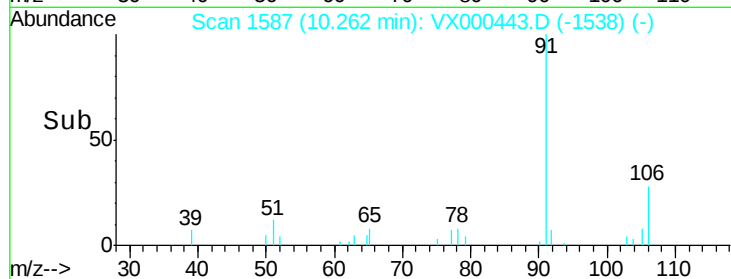
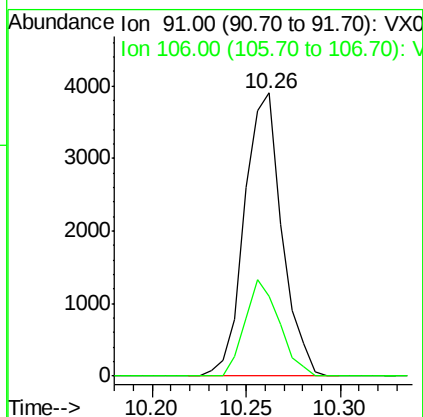
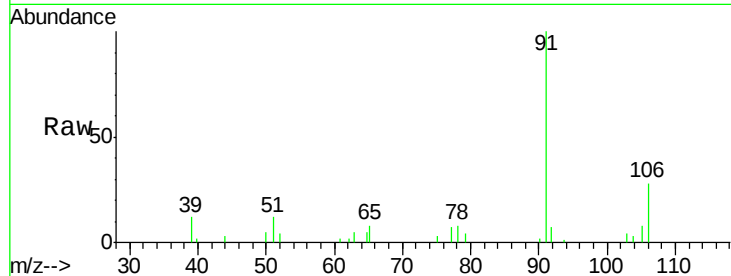




#67
Ethyl Benzene
Concen: 0.692 ug/l
RT: 10.26 min Scan# 1587
Delta R.T. -0.00 min
Lab File: VX000443.D
Acq: 26 Mar 2018 16:16

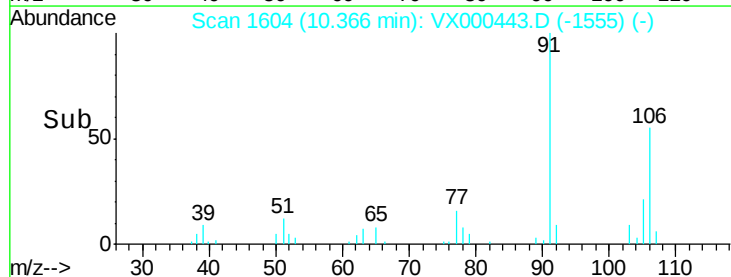
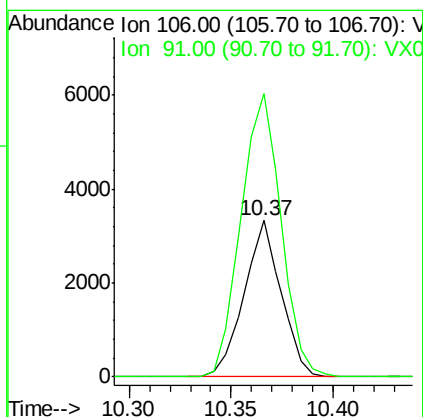
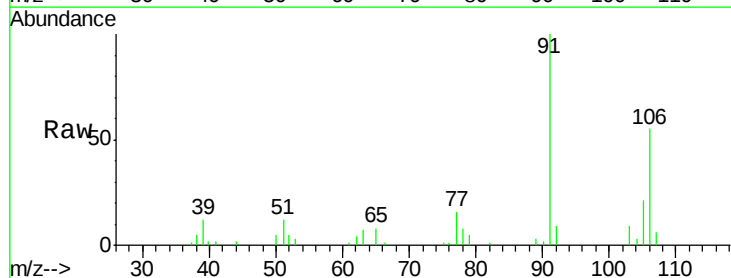
Instrument :
MSVOA_X
ClientSampled :

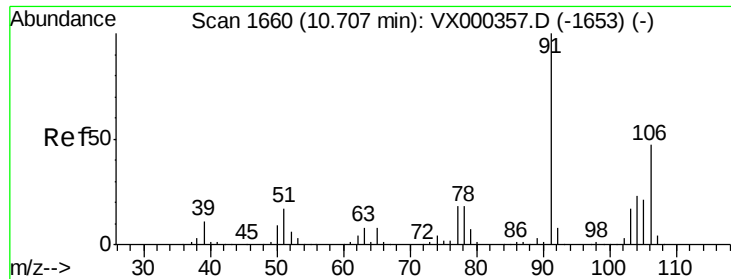
Tot Ion: 91 Resp: 5406
Ion Ratio Lower Upper
91 100
106 28.2 25.0 37.6



#68
m/p-Xylenes
Concen: 1.360 ug/l
RT: 10.37 min Scan# 1604
Delta R.T. -0.00 min
Lab File: VX000443.D
Acq: 26 Mar 2018 16:16

Tgt Ion: 106 Resp: 4185
Ion Ratio Lower Upper
106 100
91 196.2 163.4 245.2

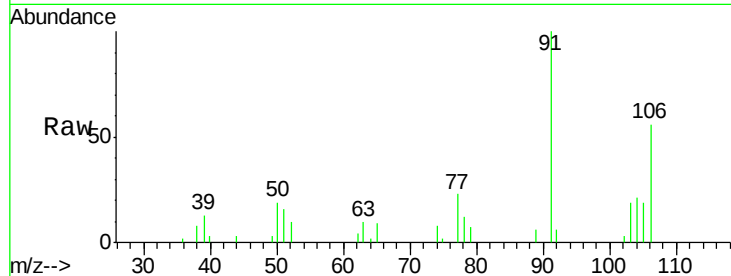




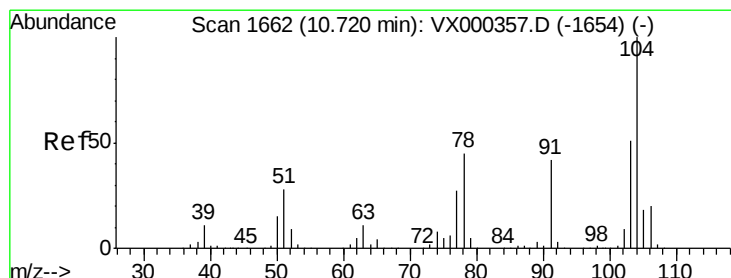
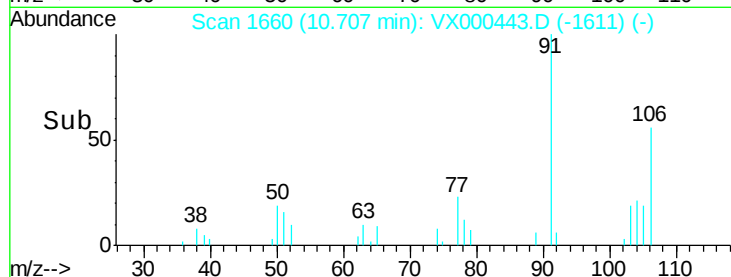
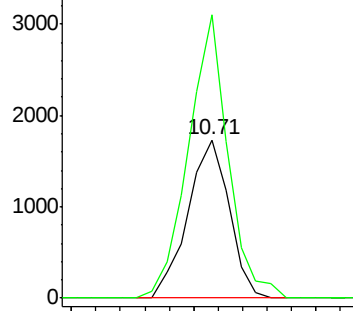
#69
o-Xylene
Concen: 0.684 ug/l
RT: 10.71 min Scan# 1660
Delta R.T. -0.00 min
Lab File: VX000443.D
Acq: 26 Mar 2018 16:16

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:106 Resp: 2036
Ion Ratio Lower Upper
106 100
91 171.9 106.5 319.6

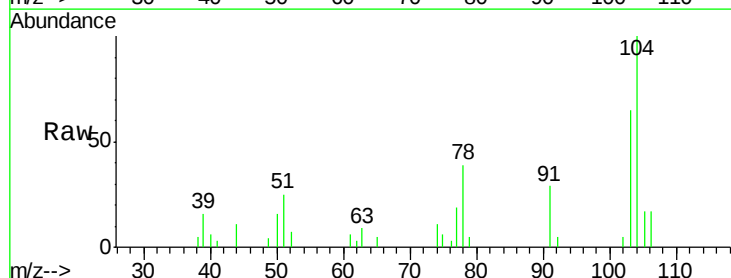


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VX0

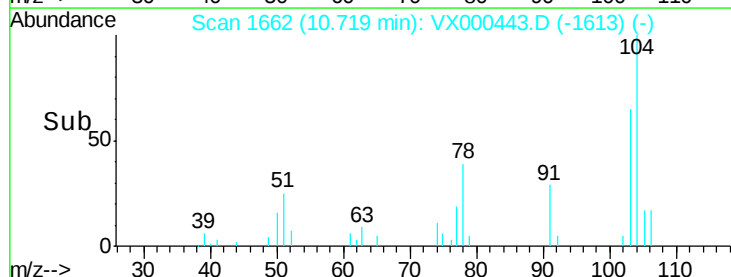
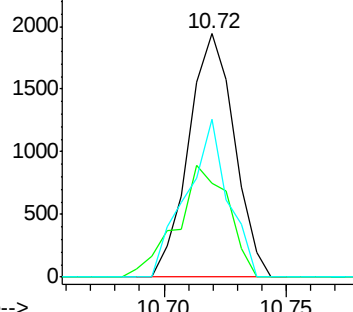


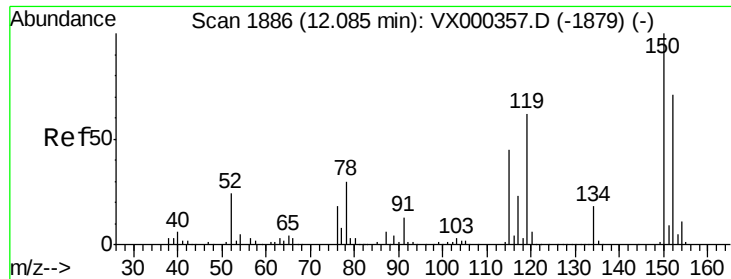
#70
Styrene
Concen: 0.511 ug/l
RT: 10.72 min Scan# 1662
Delta R.T. -0.00 min
Lab File: VX000443.D
Acq: 26 Mar 2018 16:16

Tgt Ion:104 Resp: 2519
Ion Ratio Lower Upper
104 100
78 51.4 40.5 60.7
103 59.2 45.7 68.5



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VX0
Ion 103.00 (102.70 to 103.70): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VX000443.D

Acq: 26 Mar 2018 16:16

Instrument :

MSVOA_X

ClientSampleId :

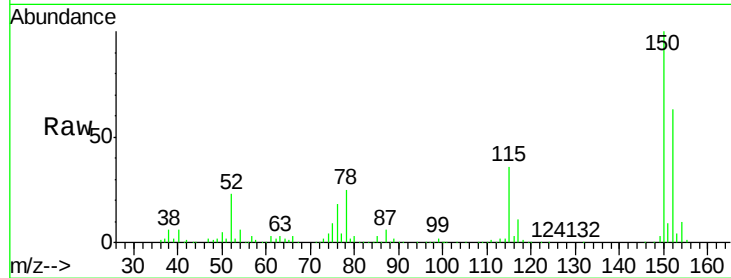
Tot Ion:152 Resp: 98363

Ion Ratio Lower Upper

152 100

115 57.0 39.8 119.3

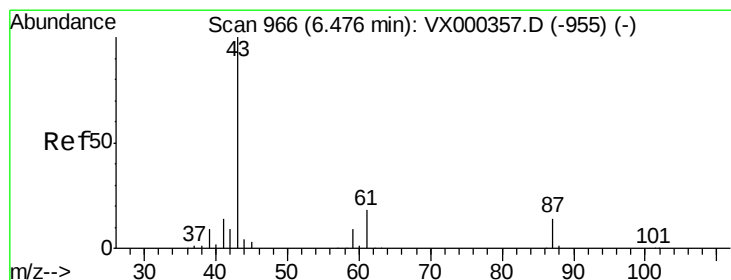
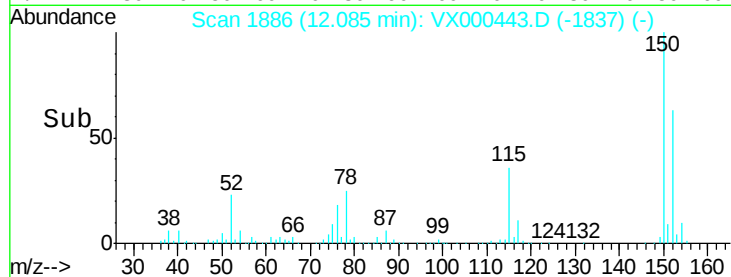
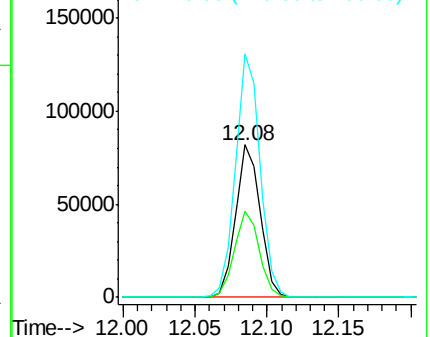
150 159.7 0.0 344.4



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



#74

N-ethyl acetate

Concen: Below Cal

RT: 6.48 min Scan# 967

Delta R.T. 0.01 min

Lab File: VX000443.D

Acq: 26 Mar 2018 16:16

Tgt Ion: 43 Resp: 1798

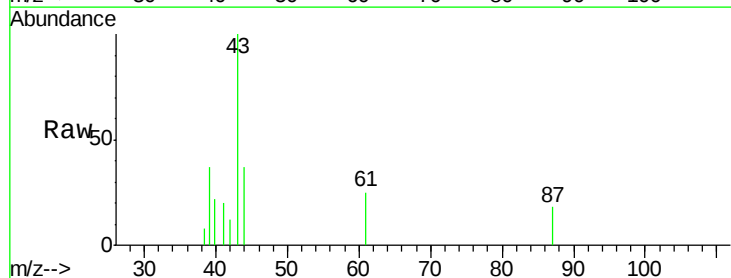
Ion Ratio Lower Upper

43 100

70 0.0 0.0 0.0

55 0.0 0.0 0.0

61 12.7 14.4 21.6#

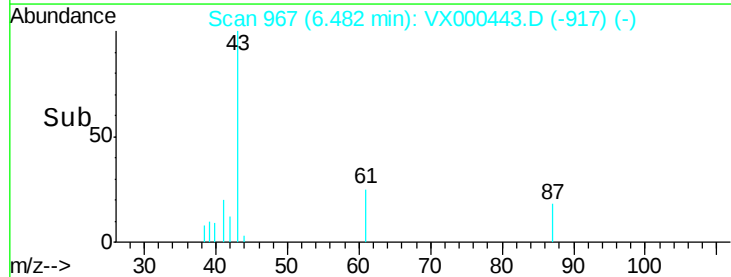
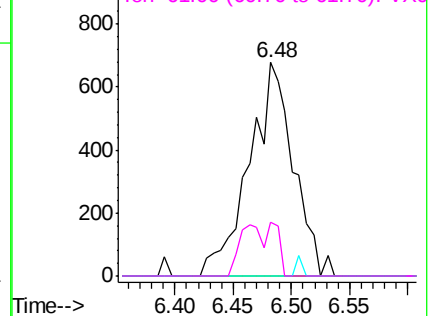


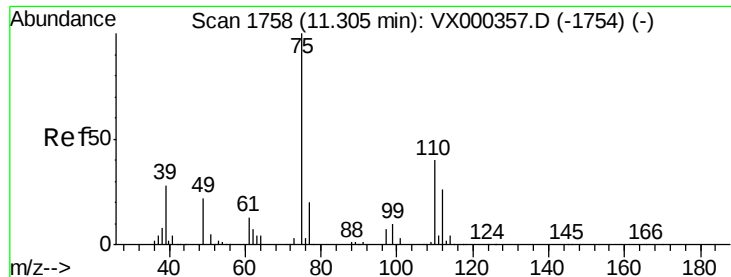
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0





#76

1,2,3-Trichloropropane

Concen: 24.317 ug/l

RT: 11.15 min Scan# 1732

Delta R.T. -0.16 min

Lab File: VX000443.D

Acq: 26 Mar 2018 16:16

Instrument :

MSVOA_X

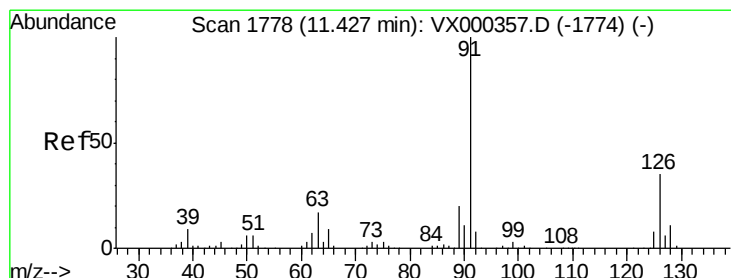
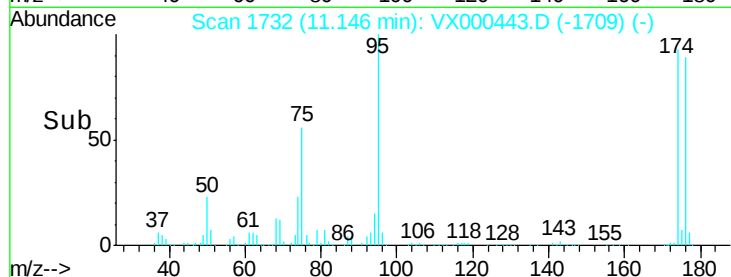
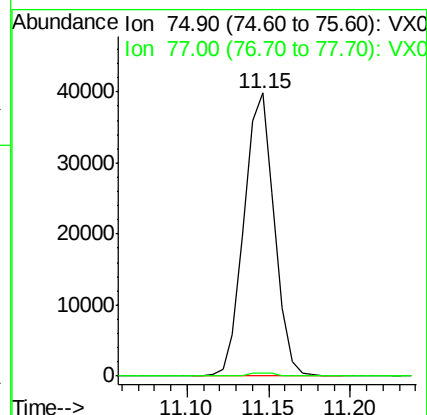
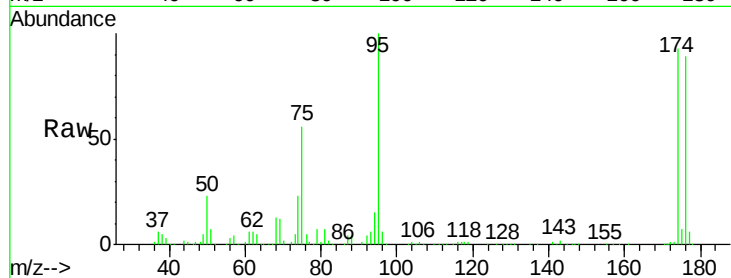
ClientSampleId :

Tot Ion: 75 Resp: 51404

Ion Ratio Lower Upper

75 100

77 1.2 21.4 64.2#



#79

2-Chlorotoluene

Concen: 0.223 ug/l

RT: 11.44 min Scan# 1780

Delta R.T. 0.01 min

Lab File: VX000443.D

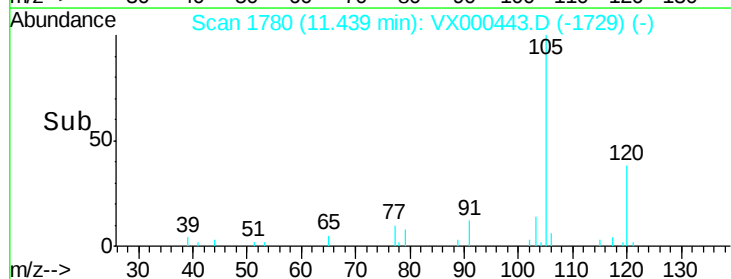
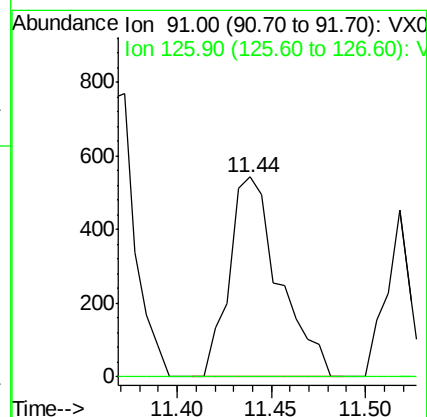
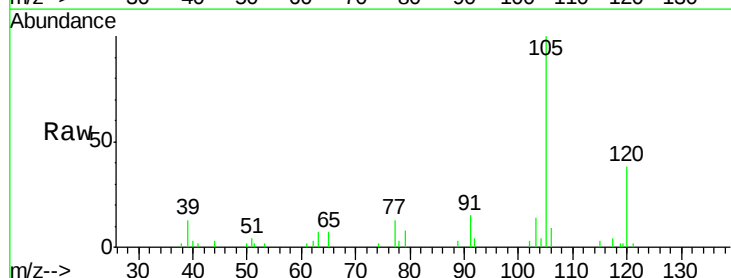
Acq: 26 Mar 2018 16:16

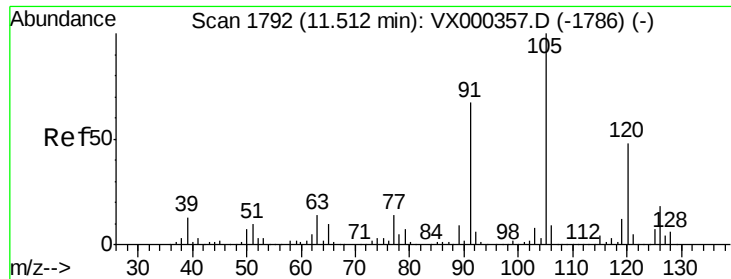
Tgt Ion: 91 Resp: 1001

Ion Ratio Lower Upper

91 100

126 0.0 17.7 53.1#





#80

1,3,5-Trimethylbenzene

Concen: 0.413 ug/l

RT: 11.52 min Scan# 1793

Delta R.T. 0.01 min

Lab File: VX000443.D

Acq: 26 Mar 2018 16:16

Instrument :

MSVOA_X

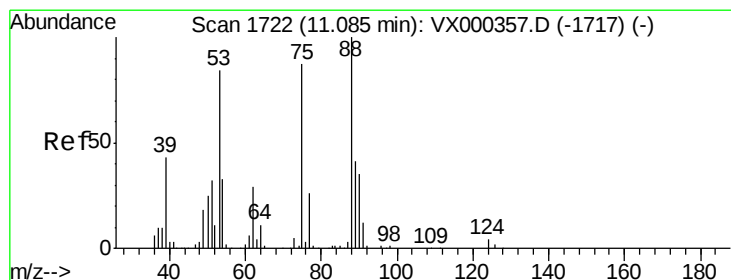
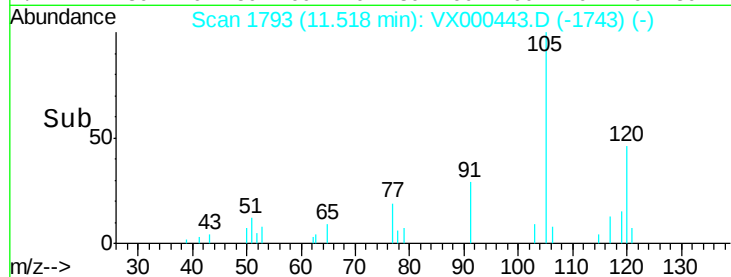
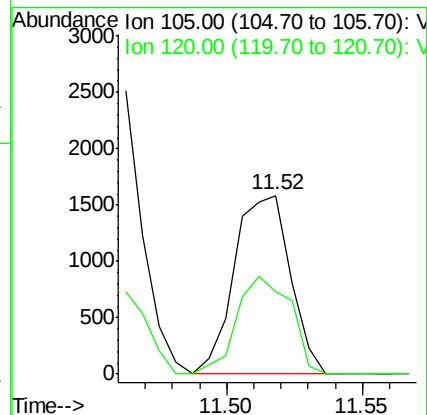
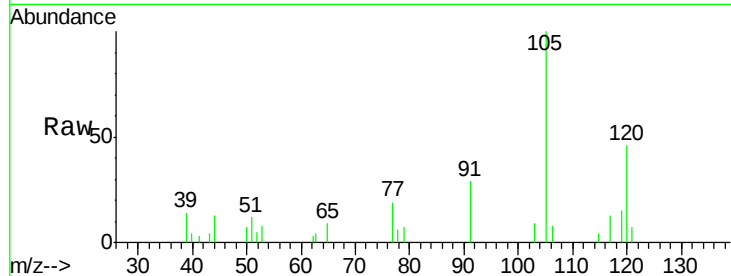
ClientSampled :

Tot Ion:105 Resp: 2263

Ion Ratio Lower Upper

105 100

120 52.7 24.1 72.4



#81

trans-1,4-Dichloro-2-butene

Concen: 78.727 ug/l

RT: 11.15 min Scan# 1732

Delta R.T. 0.06 min

Lab File: VX000443.D

Acq: 26 Mar 2018 16:16

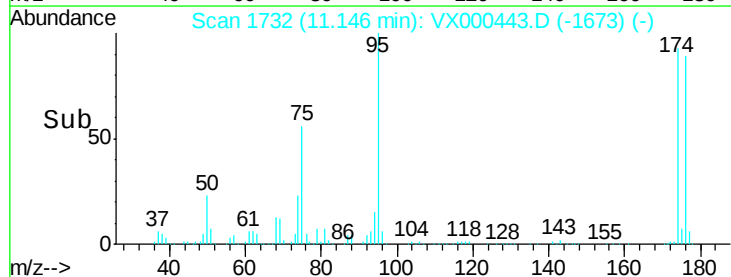
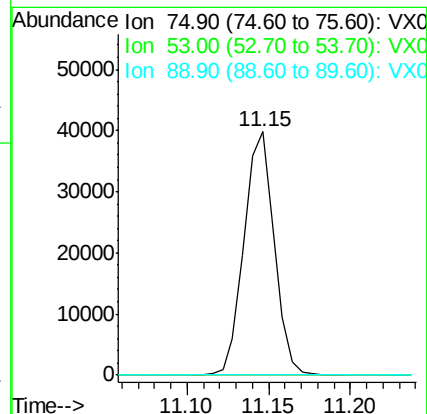
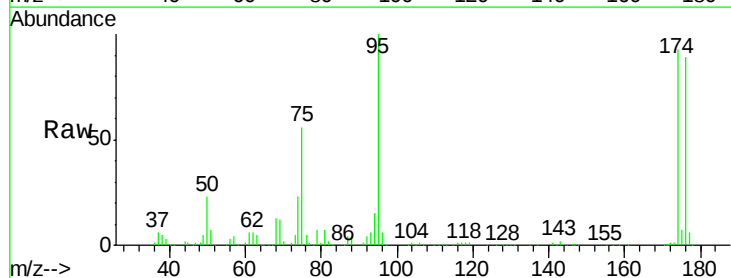
Tgt Ion: 75 Resp: 51404

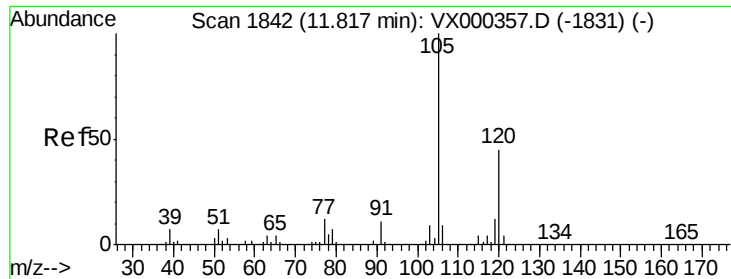
Ion Ratio Lower Upper

75 100

53 0.0 80.7 121.1#

89 0.0 39.4 59.0#

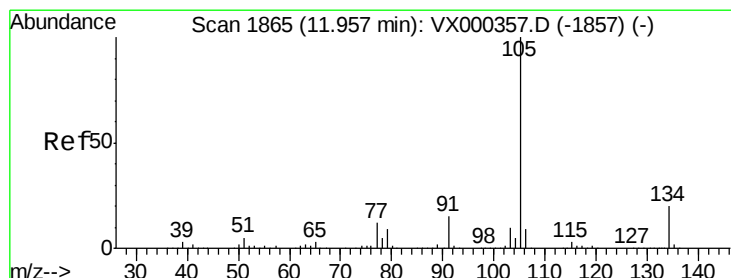
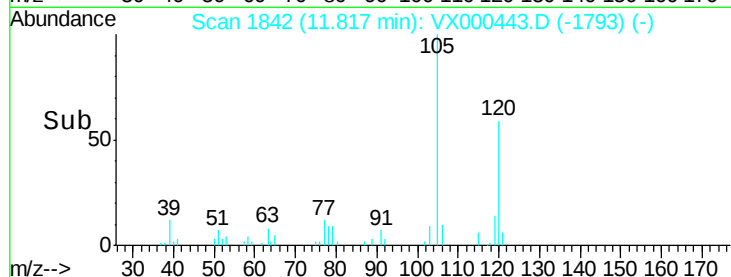
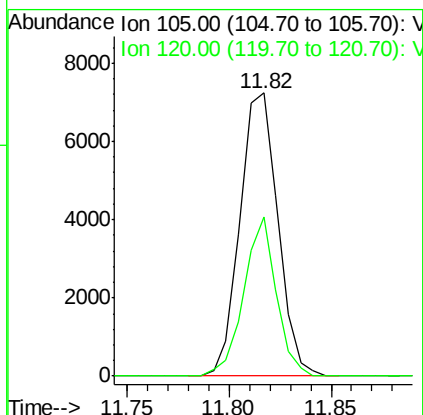
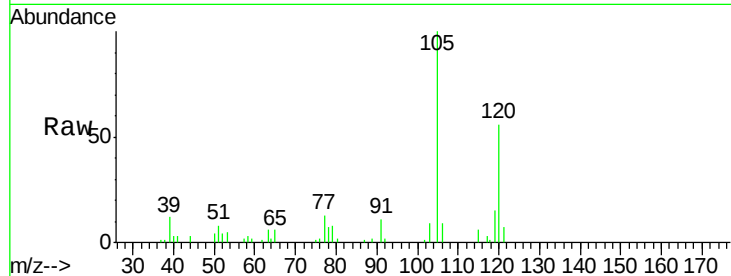




#84
 1,2,4-Trimethylbenzene
 Concen: 1.626 ug/l
 RT: 11.82 min Scan# 1842
 Delta R.T. -0.00 min
 Lab File: VX000443.D
 Acq: 26 Mar 2018 16:16

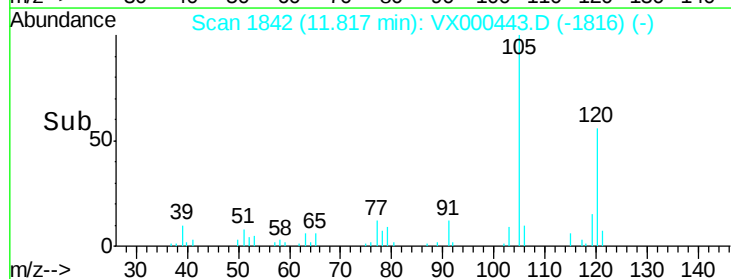
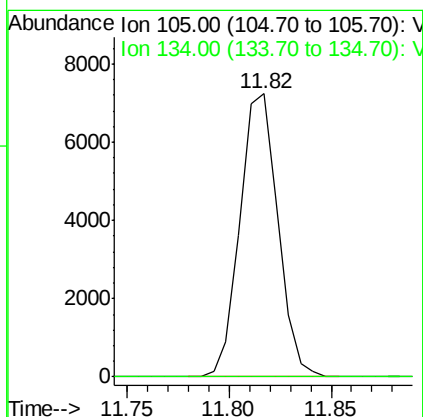
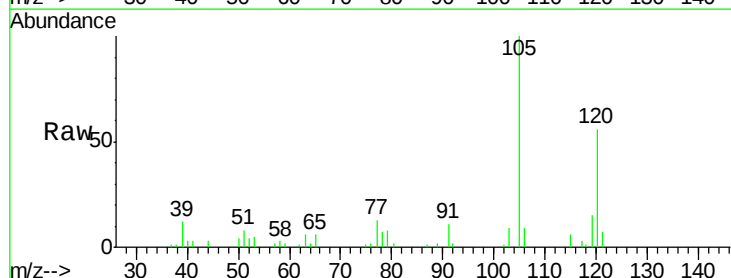
Instrument :
 MSVOA_X
 ClientSampleId :

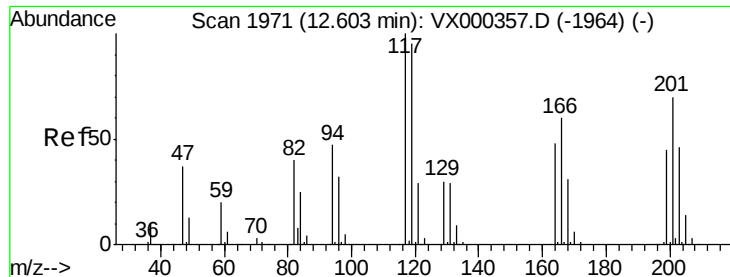
Tot Ion:105 Resp: 9340
 Ion Ratio Lower Upper
 105 100
 120 48.2 22.4 67.3



#85
 sec-Butylbenzene
 Concen: 1.366 ug/l
 RT: 11.82 min Scan# 1842
 Delta R.T. -0.14 min
 Lab File: VX000443.D
 Acq: 26 Mar 2018 16:16

Tgt Ion:105 Resp: 9340
 Ion Ratio Lower Upper
 105 100
 134 0.0 10.3 30.8#

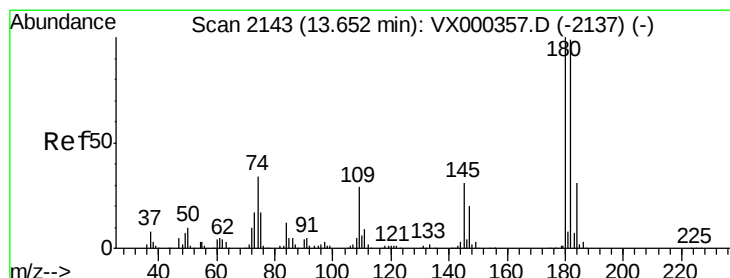
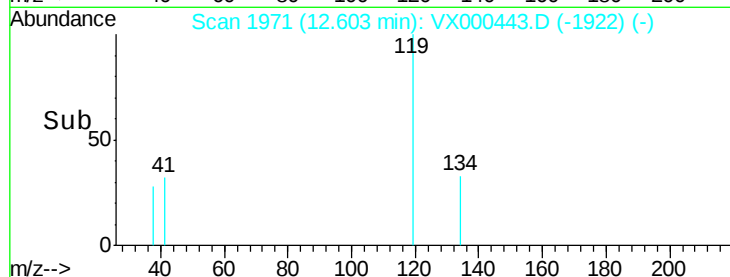
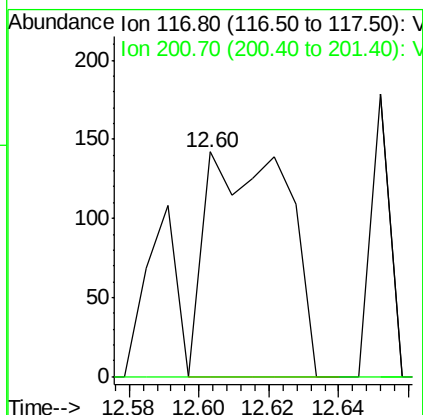
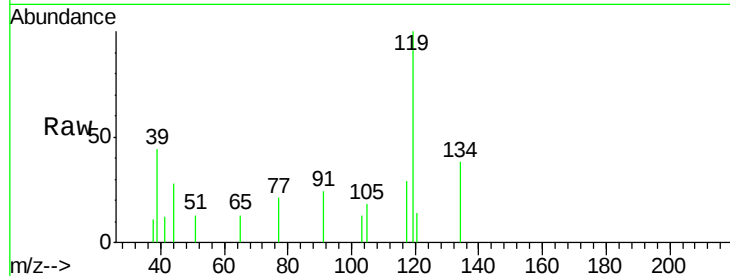




#90
Hexachloroethane
Concen: 0.241 ug/l
RT: 12.60 min Scan# 1971
Delta R.T. -0.00 min
Lab File: VX000443.D
Acq: 26 Mar 2018 16:16

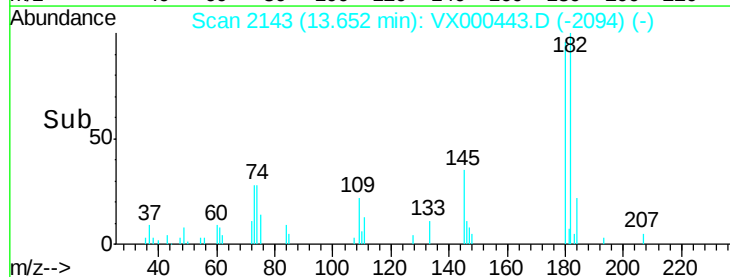
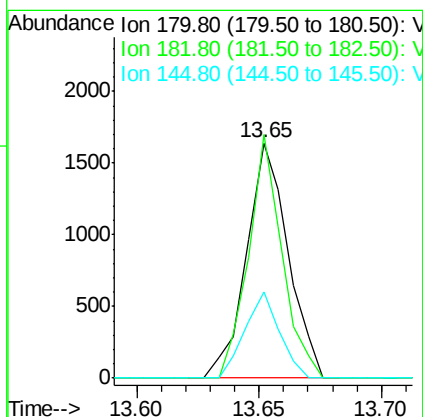
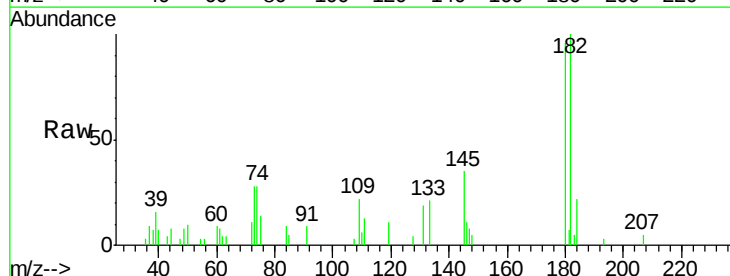
Instrument :
MSVOA_X
ClientSampleId :

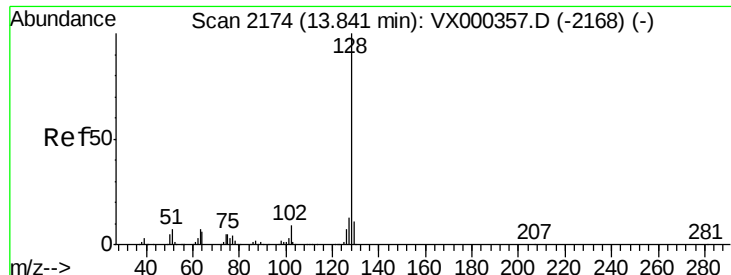
Tot Ion:117 Resp: 230
Ion Ratio Lower Upper
117 100
201 0.0 37.9 113.6#



#93
1,2,4-Trichlorobenzene
Concen: 0.840 ug/l
RT: 13.65 min Scan# 2143
Delta R.T. -0.00 min
Lab File: VX000443.D
Acq: 26 Mar 2018 16:16

Tgt Ion:180 Resp: 1937
Ion Ratio Lower Upper
180 100
182 83.5 47.6 142.9
145 30.5 15.1 45.3





#95

Naphthalene

Concen: 22.084 ug/l

RT: 13.84 min Scan# 2174

Delta R.T. -0.00 min

Lab File: VX000443.D

Acq: 26 Mar 2018 16:16

Instrument :

MSVOA_X

ClientSampleId :

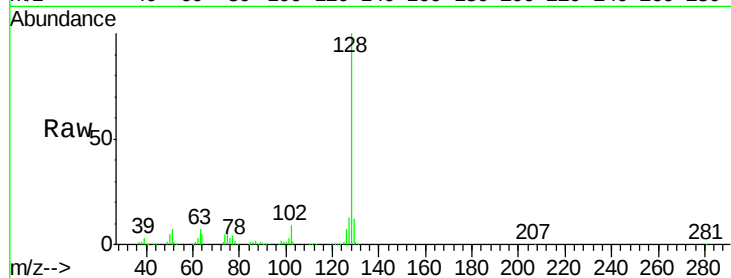
Tot Ion:128 Resp: 177495

Ion Ratio Lower Upper

128 100

127 12.9 10.6 15.8

129 11.1 8.9 13.3



Abundance Ion 128.00 (127.70 to 128.70): V

200000 Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

