

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX040119\
 Data File : VX008570.D
 Acq On : 01 Apr 2019 15:47
 Operator : JC/SP
 Sample : K2189-04RE
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Apr 02 01:11:57 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X032519W.M
 Quant Title : SW846 8260
 QLast Update : Tue Mar 26 07:57:20 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	220896	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	369782	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	321233	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	132105	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	154538	46.15	ug/l	0.00
Spiked Amount			Recovery	=	92.30%	
35) Dibromofluoromethane	5.50	113	113873	47.23	ug/l	0.00
Spiked Amount			Recovery	=	94.46%	
50) Toluene-d8	8.71	98	464512	48.18	ug/l	0.00
Spiked Amount			Recovery	=	96.36%	
62) 4-Bromofluorobenzene	11.13	95	158953	44.49	ug/l	0.00
Spiked Amount			Recovery	=	88.98%	

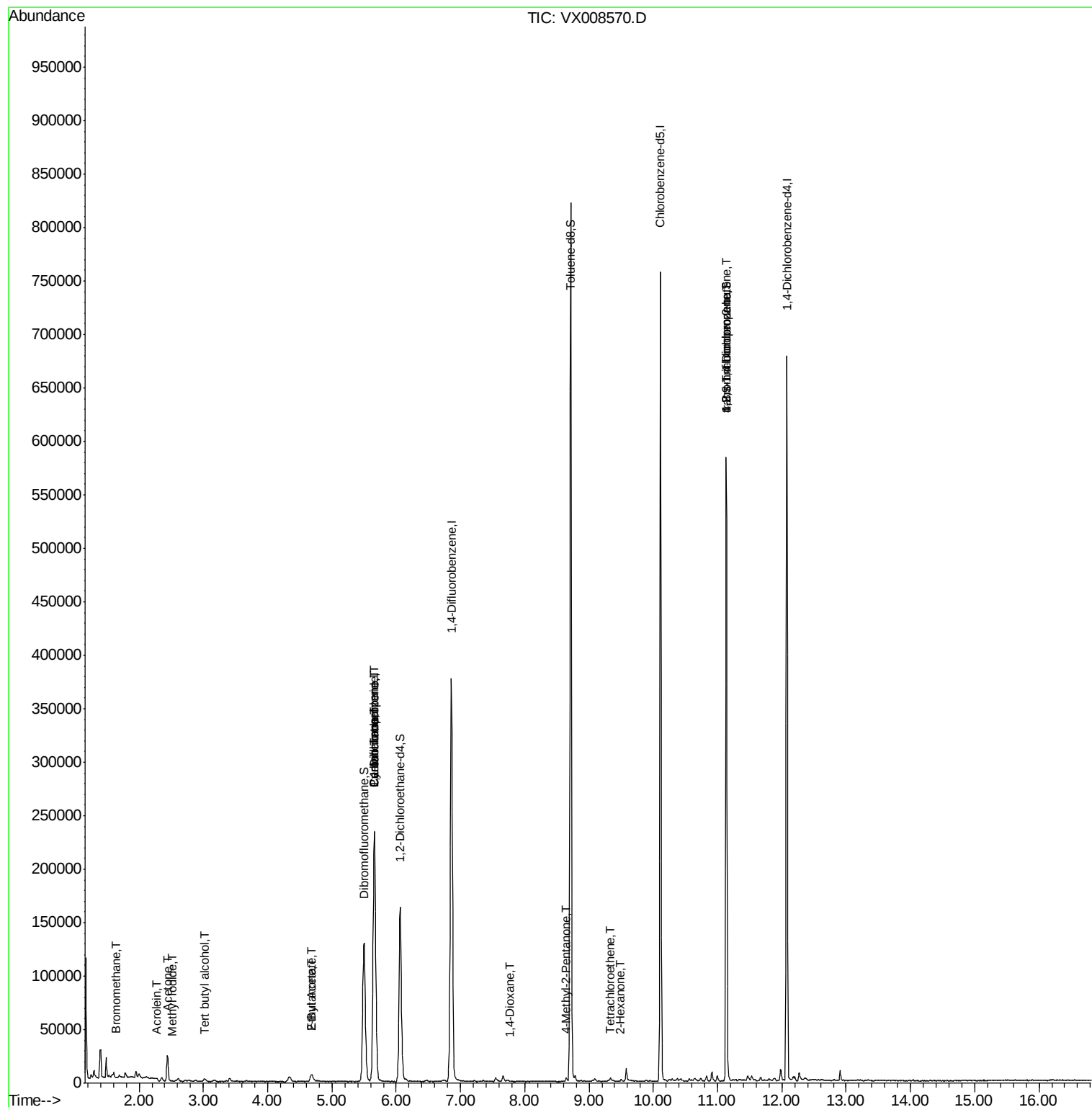
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	811	Below Cal	#	87
5) Bromomethane	1.64	94	199	1.908	ug/l #	74
10) Methyl Iodide	2.51	142	63	4.153	ug/l #	42
11) Tert butyl alcohol	3.03	59	2129	2.869	ug/l #	85
13) Acrolein	2.28	56	162	0.301	ug/l #	25
16) Acetone	2.44	43	26108	14.916	ug/l	99
17) Carbon Disulfide	2.57	76	1055	Below Cal	#	91
20) Methylene Chloride	2.86	84	279	Below Cal	#	76
21) trans-1,2-Dichloroethene	3.16	96	20	Below Cal	#	46
25) 2-Butanone	4.68	43	9149	3.260	ug/l	91
31) Cyclohexane	5.66	56	5608	1.045	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	18639	4.727	ug/l #	51
37) Ethyl Acetate	4.68	43	9149	1.791	ug/l #	71
38) Carbon Tetrachloride	5.67	117	21982	6.681	ug/l #	16
49) 1,4-Dioxane	7.76	88	86	1.058	ug/l #	30
51) 4-Methyl-2-Pentanone	8.65	43	2372	0.447	ug/l	98
59) 2-Hexanone	9.50	43	1306	0.318	ug/l	99
64) Tetrachloroethene	9.34	164	507	0.233	ug/l	89
76) 1,2,3-Trichloropropane	11.13	75	80326	20.453	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	80326	65.508	ug/l #	9

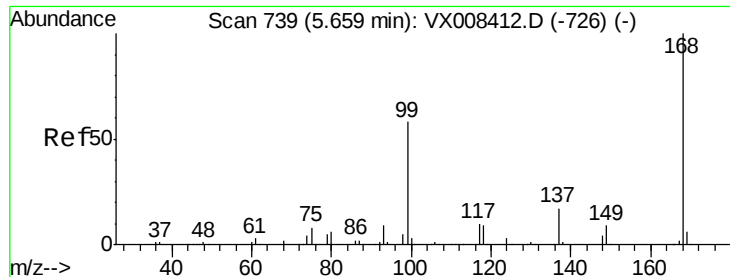
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Mar 26 07:57:20 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.00 min

Lab File: VX008570.D

Acq: 01 Apr 2019 15:47

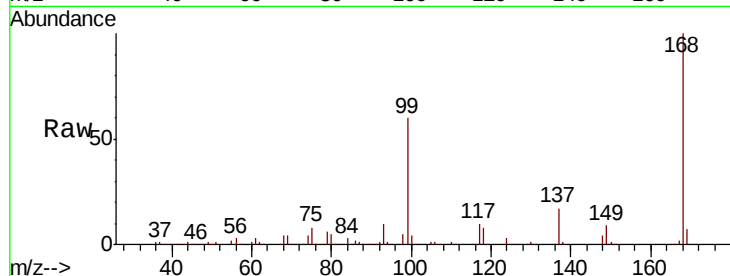
Instrument :
MSVOA_X
ClientSampled :

Tot Ion:168 Resp: 220896

Ion Ratio Lower Upper

168 100

99 60.0 46.0 69.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

80000

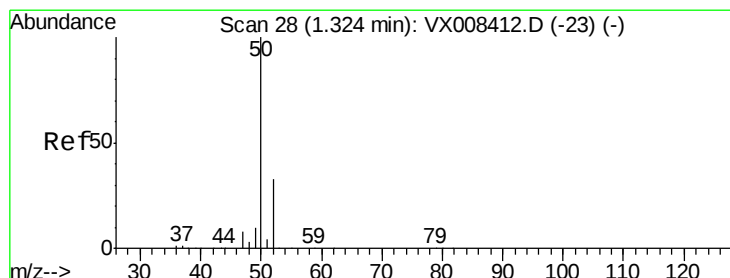
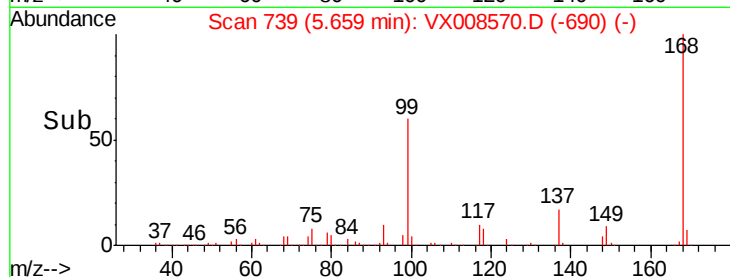
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 28

Delta R.T. 0.00 min

Lab File: VX008570.D

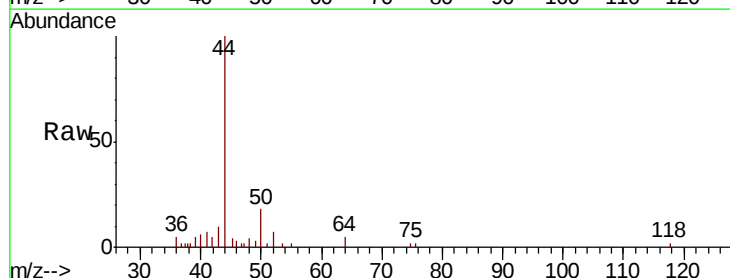
Acq: 01 Apr 2019 15:47

Tgt Ion: 50 Resp: 811

Ion Ratio Lower Upper

50 100

52 39.9 26.2 39.2#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

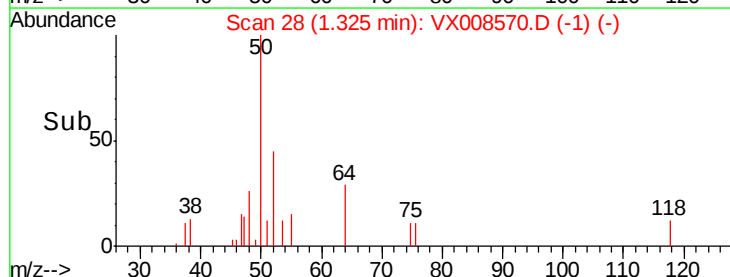
600

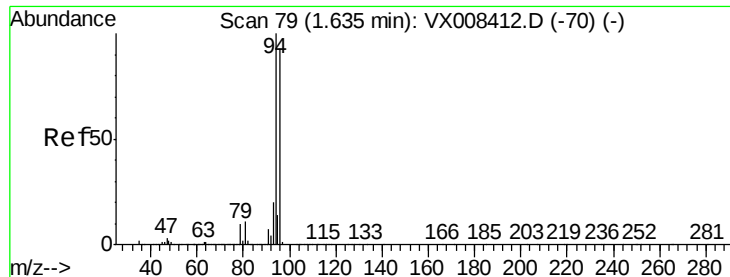
400

200

0

Time--> 1.30 1.35





#5

Bromomethane

Concen: 1.908 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX008570.D

Acq: 01 Apr 2019 15:47

Instrument :

MSVOA_X

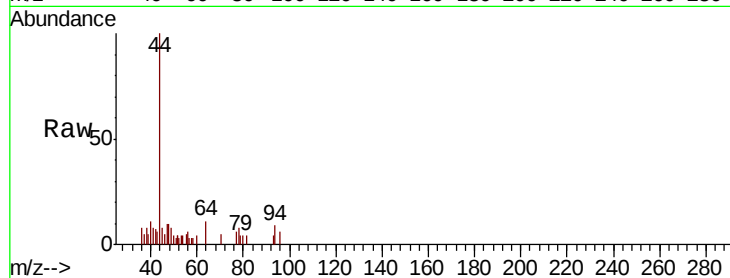
ClientSampleId :

Tot Ion: 94 Resp: 199

Ion Ratio Lower Upper

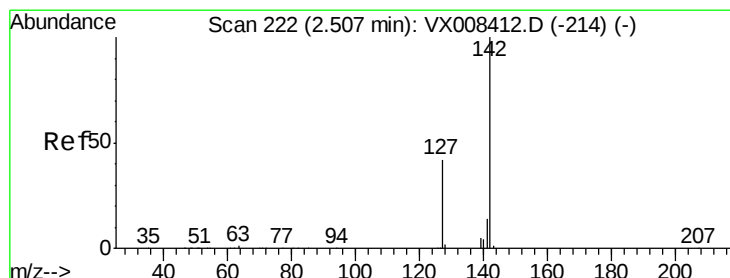
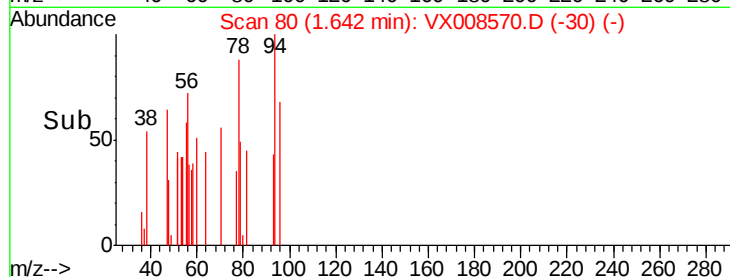
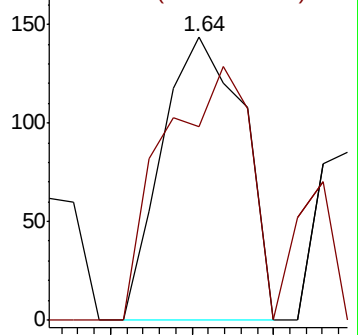
94 100

96 68.1 74.8 112.2#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#10

Methyl Iodide

Concen: 4.153 ug/l

RT: 2.51 min Scan# 223

Delta R.T. 0.01 min

Lab File: VX008570.D

Acq: 01 Apr 2019 15:47

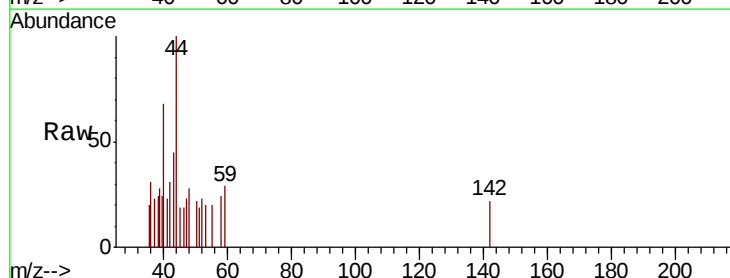
Tgt Ion: 142 Resp: 63

Ion Ratio Lower Upper

142 100

127 0.0 33.6 50.4#

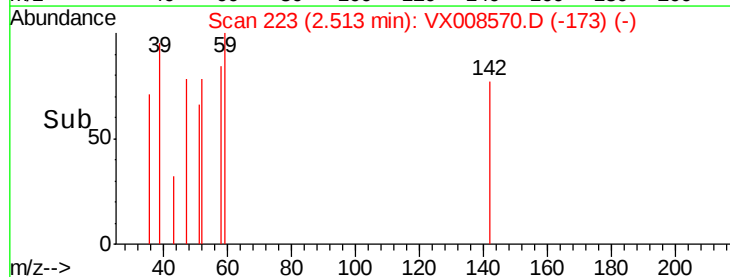
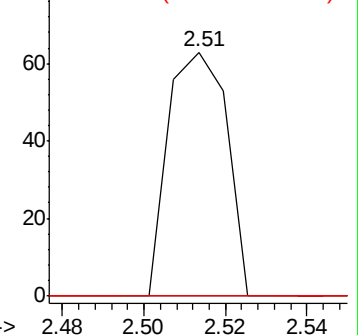
141 0.0 11.3 16.9#

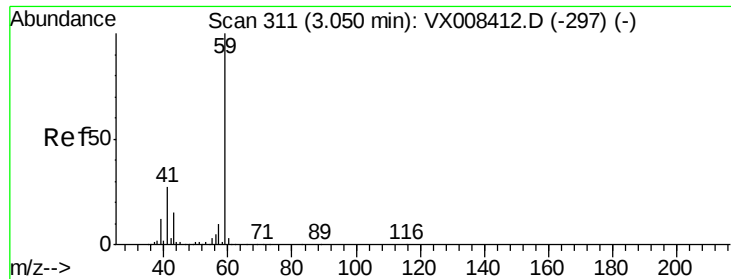


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

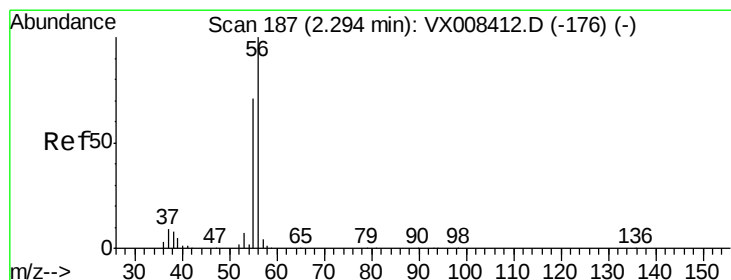
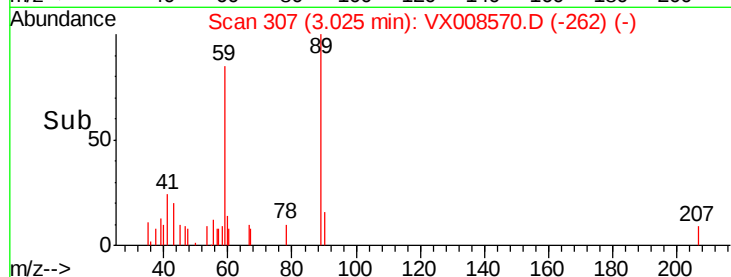
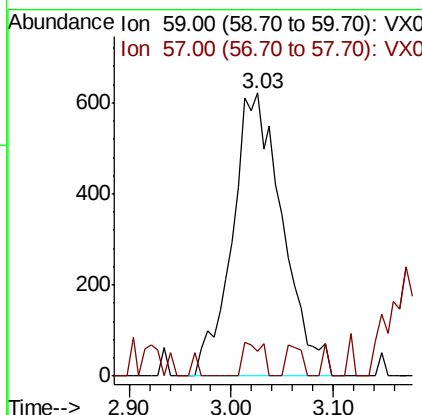
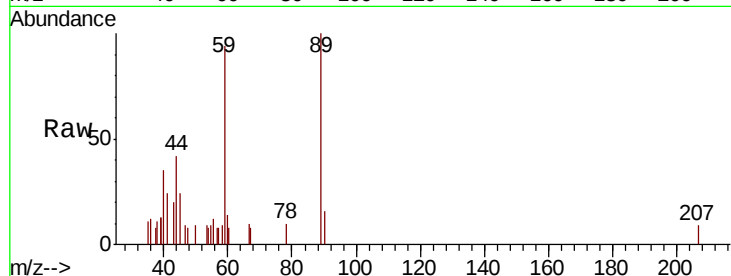




#11
Tert butyl alcohol
Concen: 2.869 ug/l
RT: 3.03 min Scan# 307
Delta R.T. -0.02 min
Lab File: VX008570.D
Acq: 01 Apr 2019 15:47

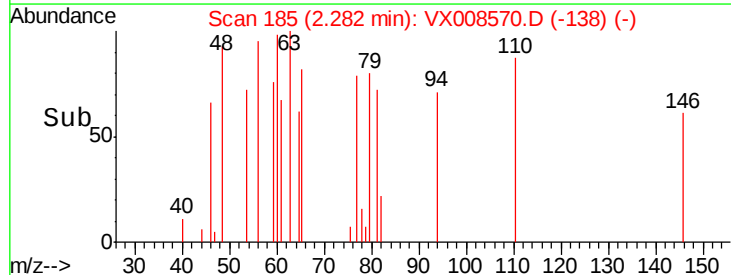
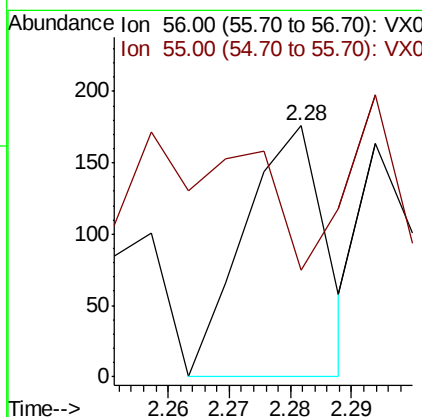
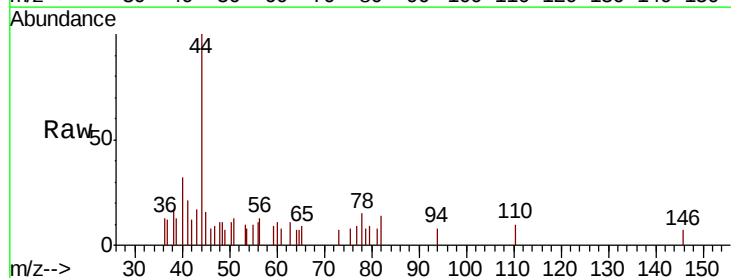
Instrument :
MSVOA_X
ClientSampled :

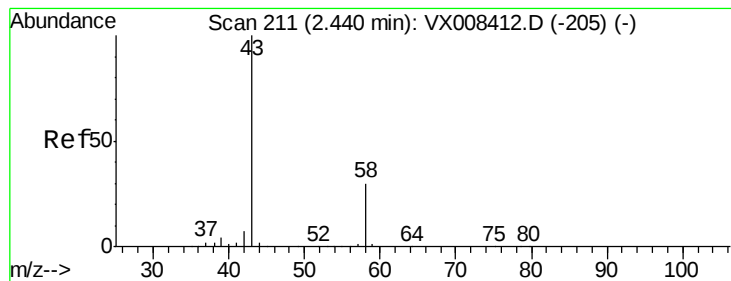
Tot Ion: 59 Resp: 2129
Ion Ratio Lower Upper
59 100
57 4.7 8.2 12.4#



#13
Acrolein
Concen: 0.301 ug/l
RT: 2.28 min Scan# 185
Delta R.T. -0.01 min
Lab File: VX008570.D
Acq: 01 Apr 2019 15:47

Tgt Ion: 56 Resp: 162
Ion Ratio Lower Upper
56 100
55 132.1 56.5 84.7#





#16

Acetone

Concen: 14.916 ug/l

RT: 2.44 min Scan# 211

Delta R.T. 0.00 min

Lab File: VX008570.D

Acq: 01 Apr 2019 15:47

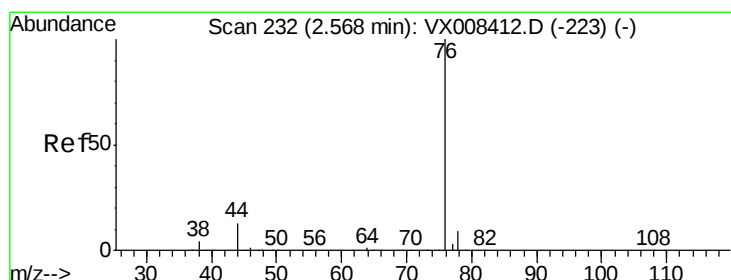
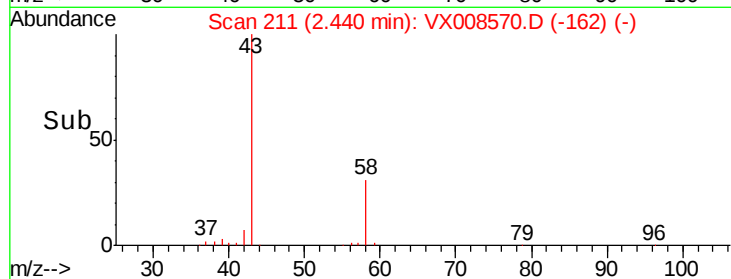
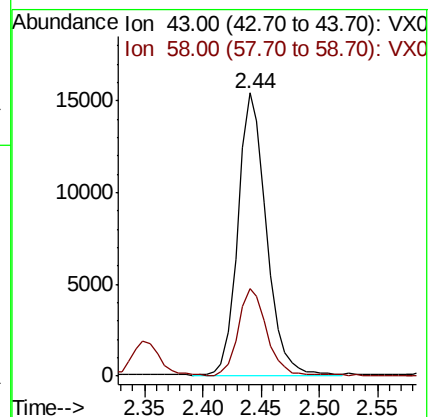
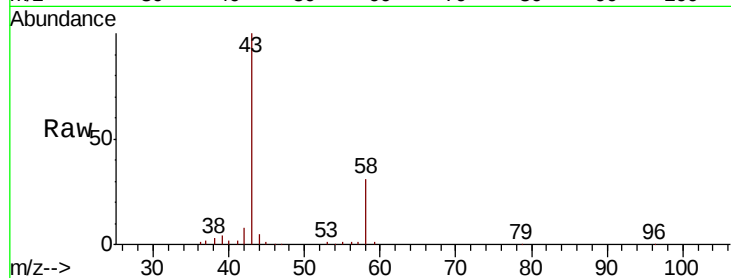
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 43 Resp: 26108

Ion Ratio Lower Upper

43 100

58 30.6 24.2 36.2



#17

Carbon Disulfide

Concen: Below Cal

RT: 2.57 min Scan# 232

Delta R.T. 0.00 min

Lab File: VX008570.D

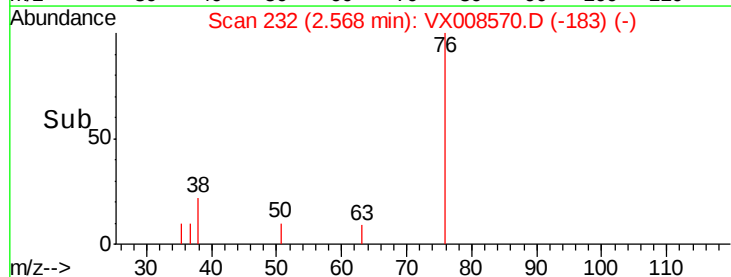
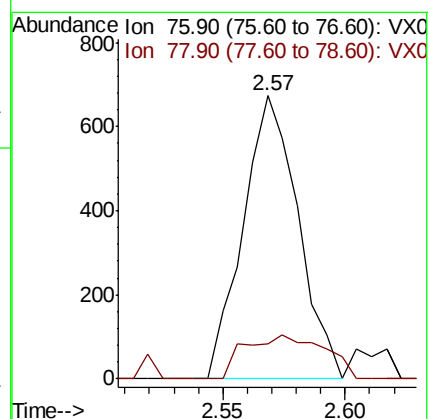
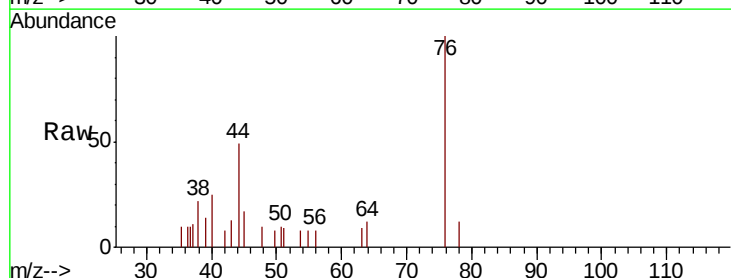
Acq: 01 Apr 2019 15:47

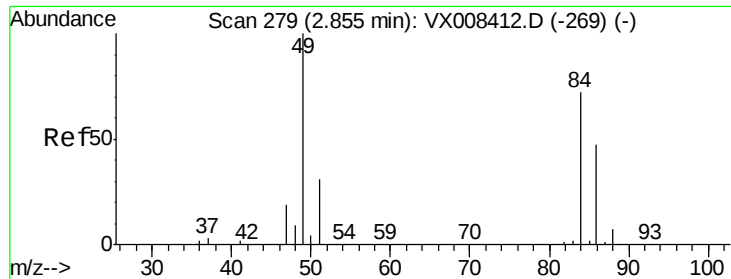
Tgt Ion: 76 Resp: 1055

Ion Ratio Lower Upper

76 100

78 12.5 7.4 11.2#

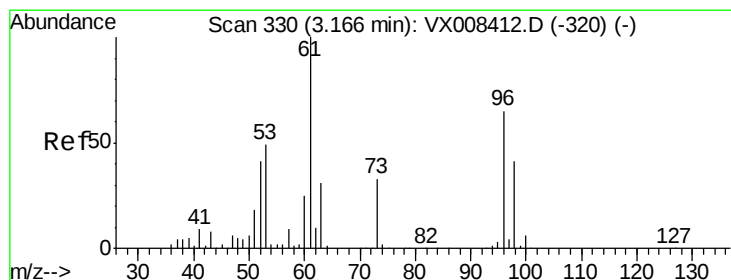
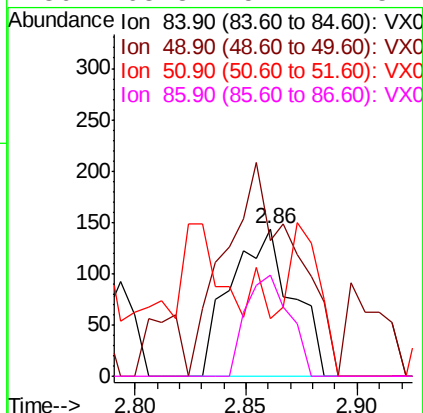
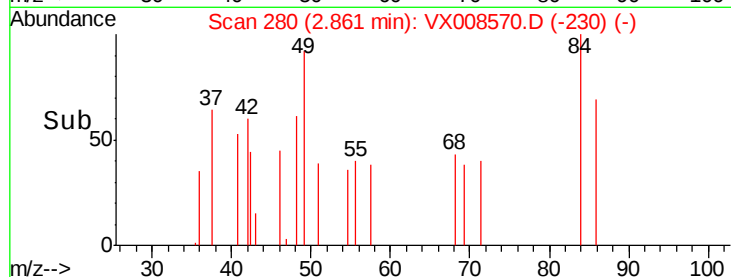
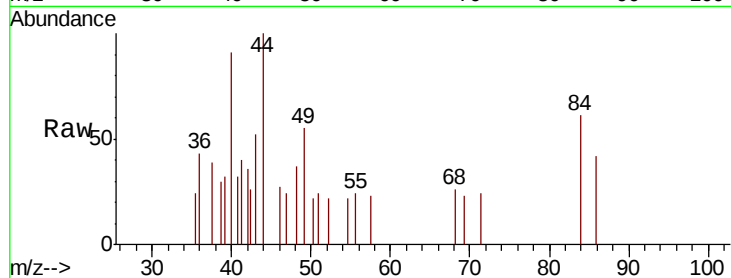




#20
Methvlene Chloride
Concen: Below Cal
RT: 2.86 min Scan# 280
Delta R.T. 0.01 min
Lab File: VX008570.D
Acq: 01 Apr 2019 15:47

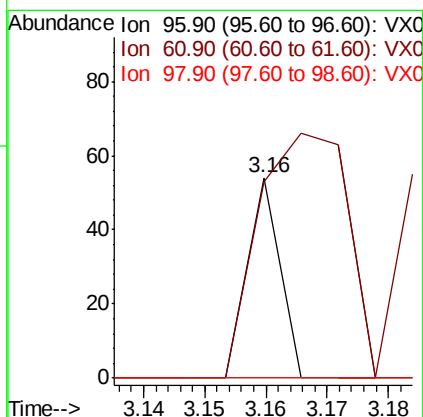
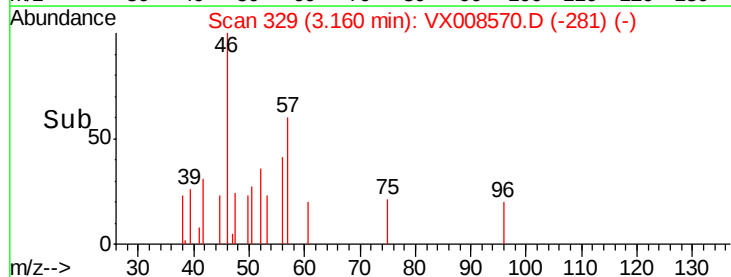
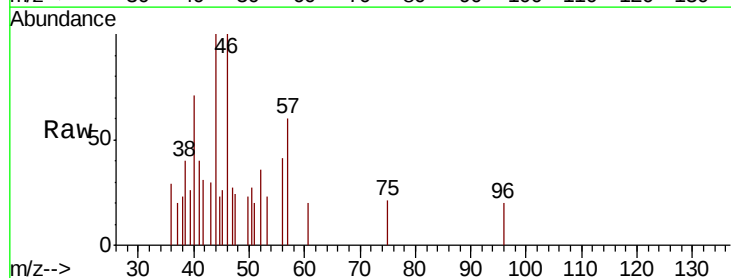
Instrument :
MSVOA_X
ClientSampleId :

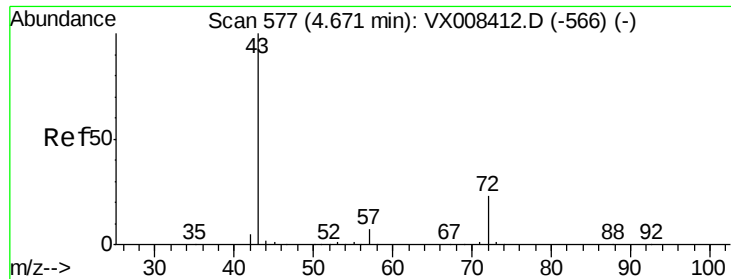
Tot Ion: 84 Resp: 279
Ion Ratio Lower Upper
84 100
49 91.7 110.6 165.8#
51 38.9 33.9 50.9
86 68.8 52.2 78.2



#21
trans-1,2-Dichloroethene
Concen: Below Cal
RT: 3.16 min Scan# 329
Delta R.T. -0.01 min
Lab File: VX008570.D
Acq: 01 Apr 2019 15:47

Tgt Ion: 96 Resp: 20
Ion Ratio Lower Upper
96 100
61 98.1 122.6 184.0#
98 0.0 50.9 76.3#





#25

2-Butanone

Concen: 3.260 ug/l

RT: 4.68 min Scan# 578

Delta R.T. 0.01 min

Lab File: VX008570.D

Acq: 01 Apr 2019 15:47

Instrument :

MSVOA_X

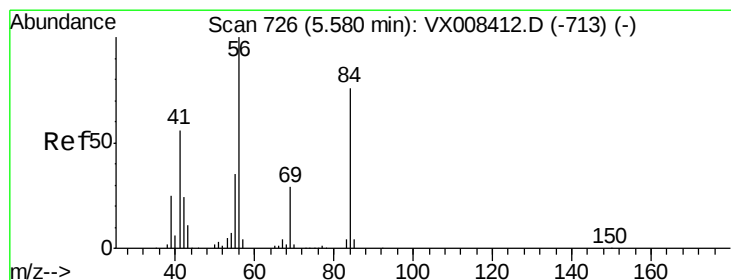
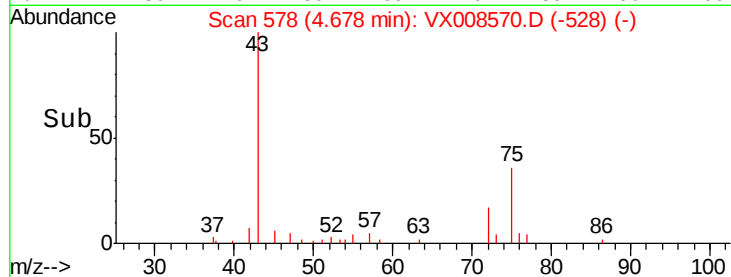
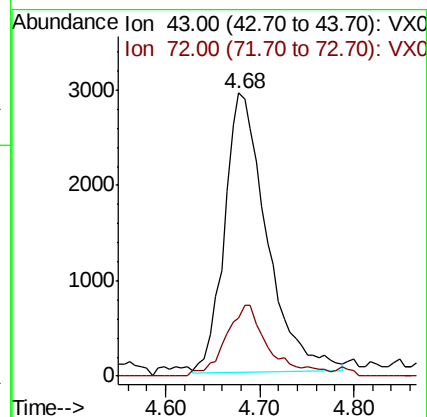
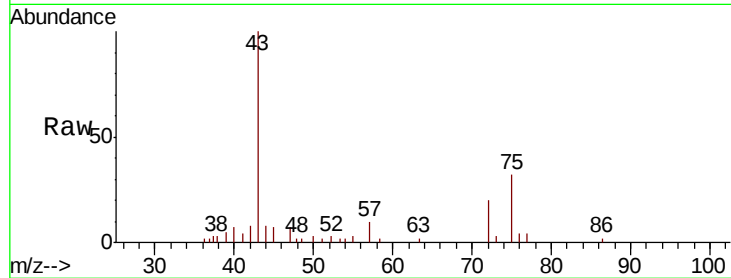
ClientSampleId :

Tot Ion: 43 Resp: 9149

Ion Ratio Lower Upper

43 100

72 18.8 18.6 28.0



#31

Cyclohexane

Concen: 1.045 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.08 min

Lab File: VX008570.D

Acq: 01 Apr 2019 15:47

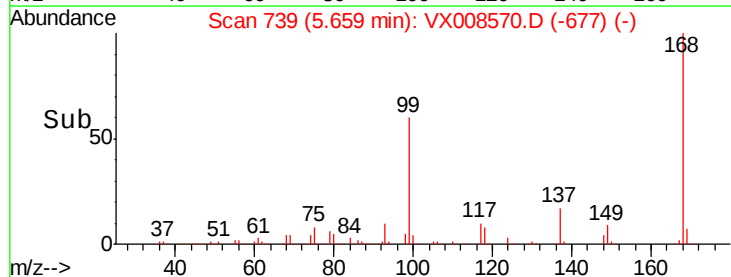
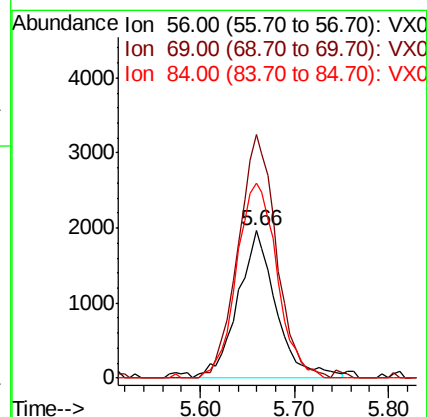
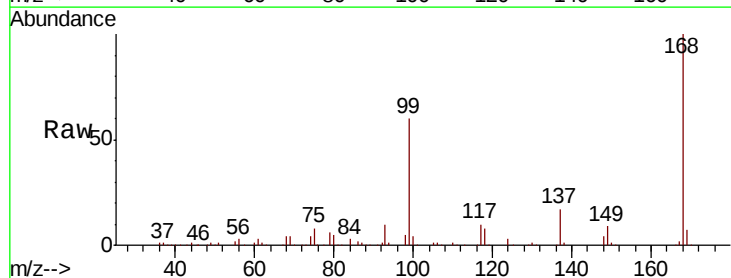
Tgt Ion: 56 Resp: 5608

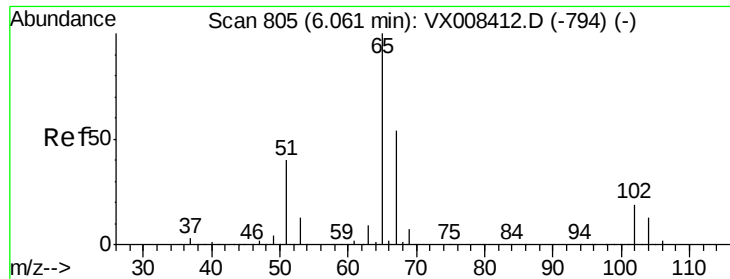
Ion Ratio Lower Upper

56 100

69 165.5 23.2 34.8#

84 132.4 60.7 91.1#

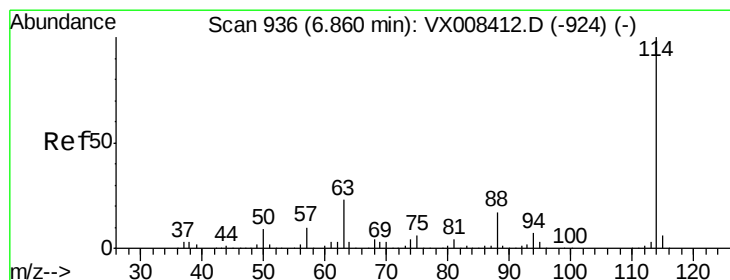
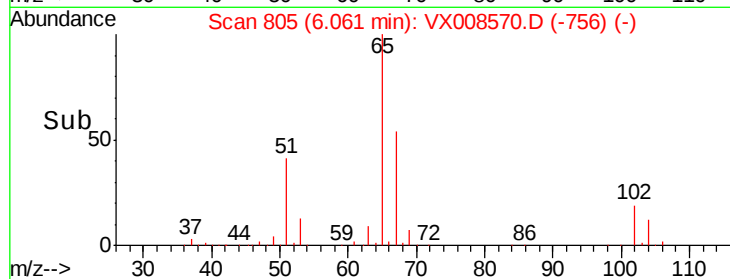
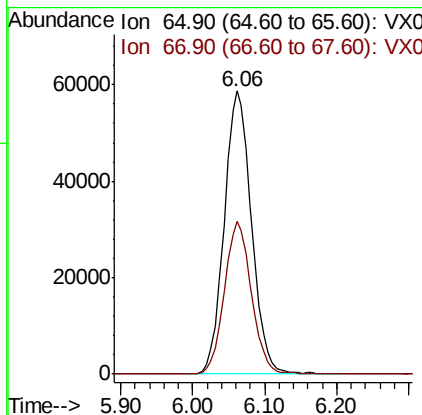
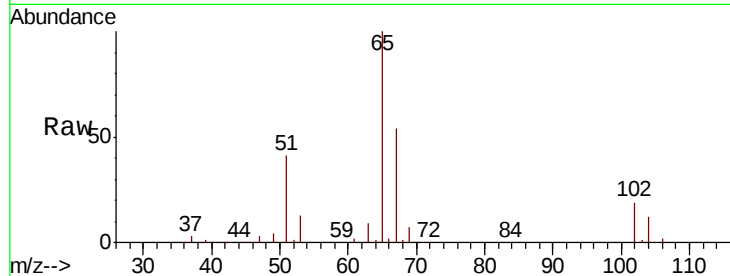




#33
 1,2-Dichloroethane-d4
 Concen: 46.147 ug/l
 RT: 6.06 min Scan# 805
 Delta R.T. 0.00 min
 Lab File: VX008570.D
 Acq: 01 Apr 2019 15:47

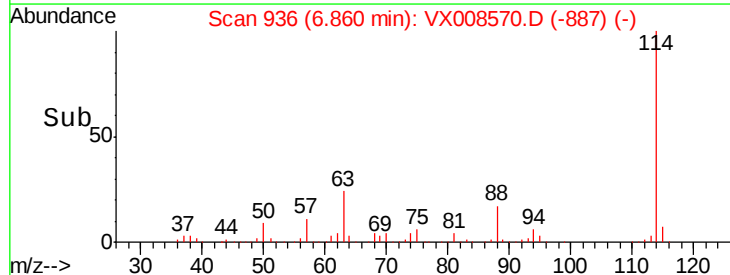
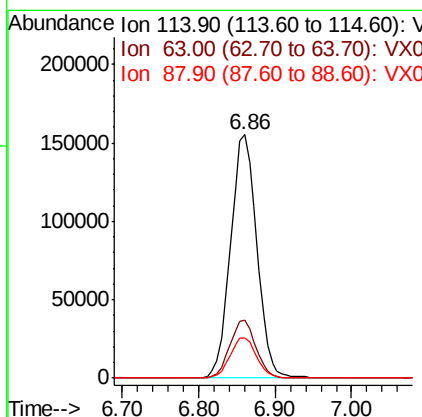
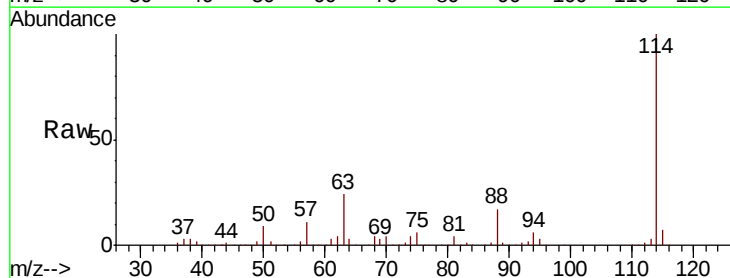
Instrument :
 MSVOA_X
 ClientSampleId :

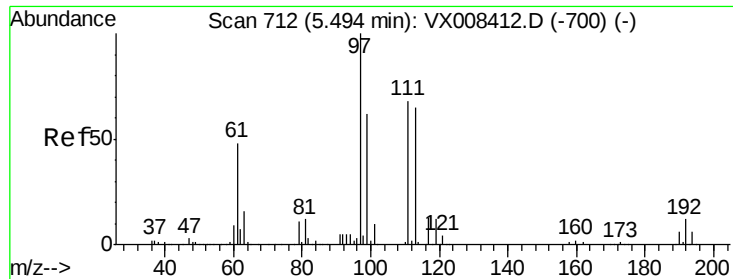
Tot Ion: 65 Resp: 154538
 Ion Ratio Lower Upper
 65 100
 67 53.5 0.0 109.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX008570.D
 Acq: 01 Apr 2019 15:47

Tgt Ion: 114 Resp: 369782
 Ion Ratio Lower Upper
 114 100
 63 23.7 0.0 46.4
 88 16.6 0.0 33.2

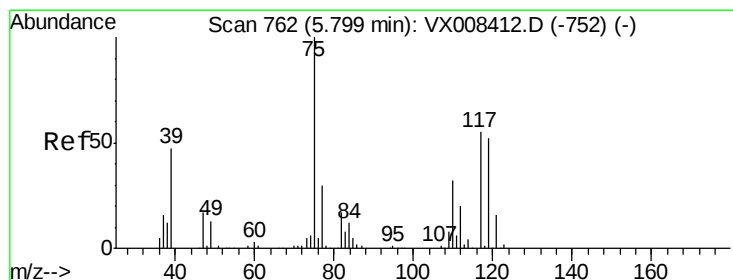
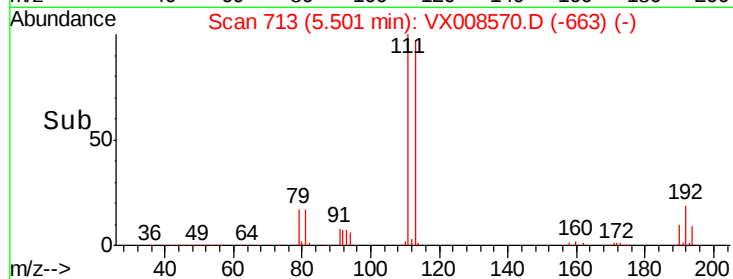
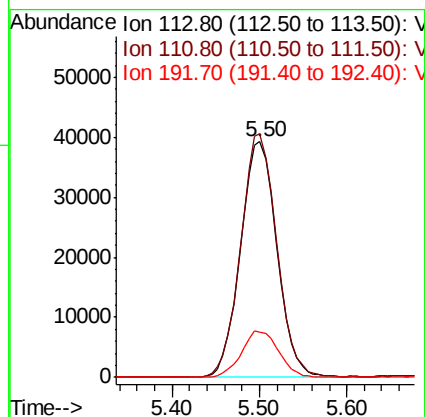
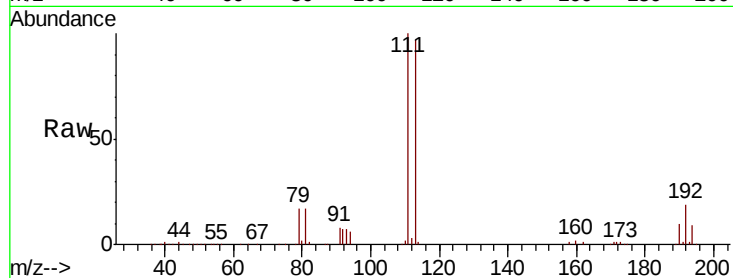




#35
 Dibromofluoromethane
 Concen: 47.228 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. 0.01 min
 Lab File: VX008570.D
 Acq: 01 Apr 2019 15:47

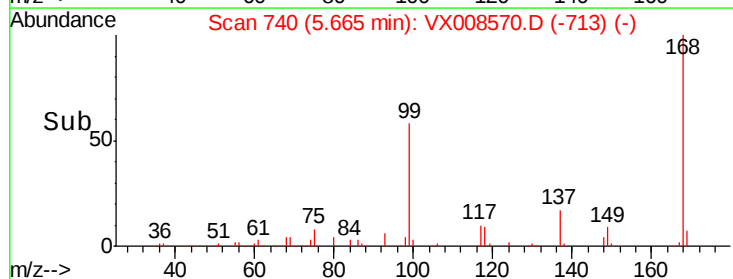
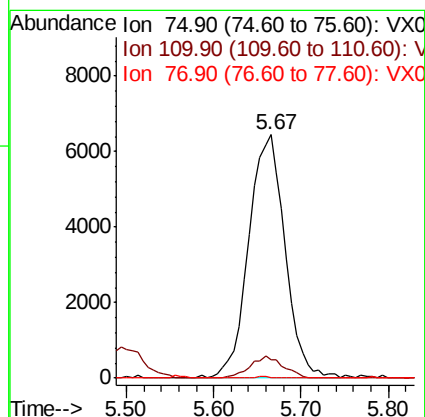
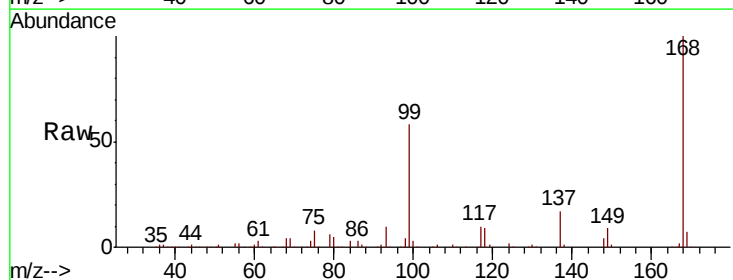
Instrument :
 MSVOA_X
 ClientSampled :

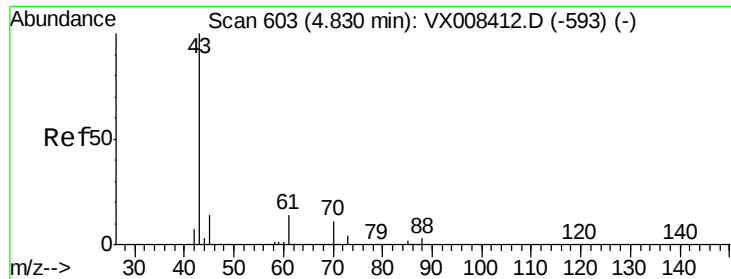
Tot Ion:113 Resp: 113873
 Ion Ratio Lower Upper
 113 100
 111 102.3 83.0 124.4
 192 20.0 15.6 23.4



#36
 1,1-Dichloropropene
 Concen: 4.727 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.13 min
 Lab File: VX008570.D
 Acq: 01 Apr 2019 15:47

Tgt Ion: 75 Resp: 18639
 Ion Ratio Lower Upper
 75 100
 110 8.2 16.6 49.7#
 77 0.2 24.2 36.2#

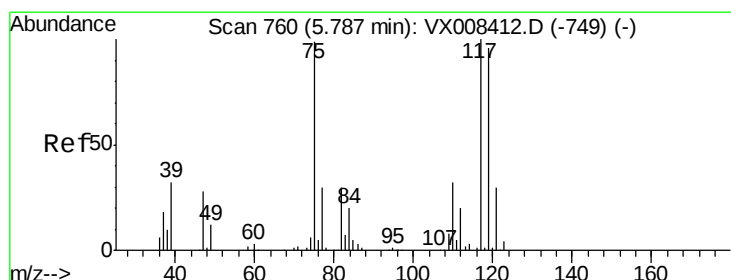
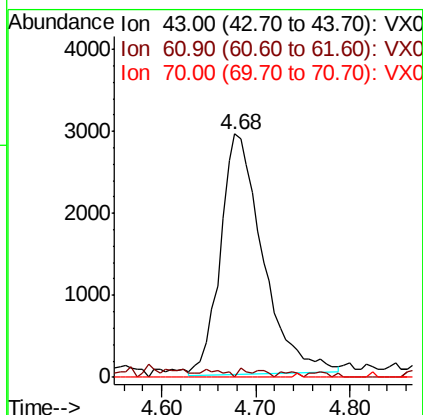
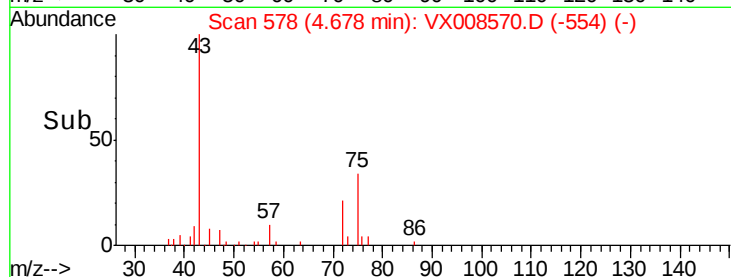
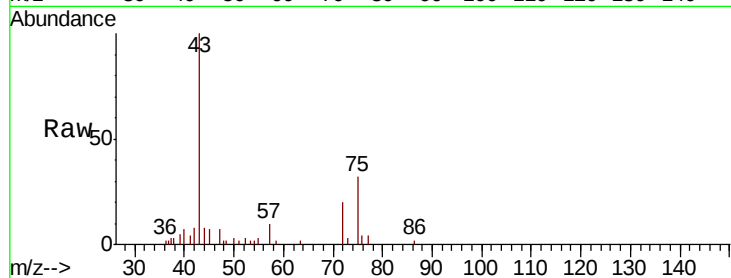




#37
Ethyl Acetate
Concen: 1.791 ug/l
RT: 4.68 min Scan# 578
Delta R.T. -0.15 min
Lab File: VX008570.D
Acq: 01 Apr 2019 15:47

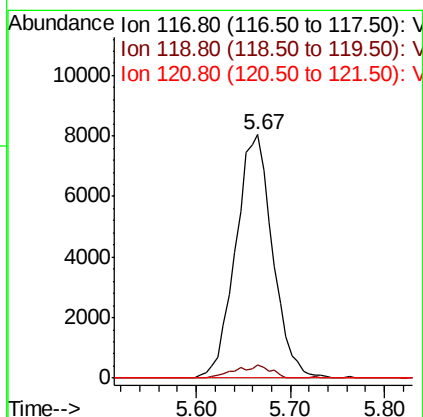
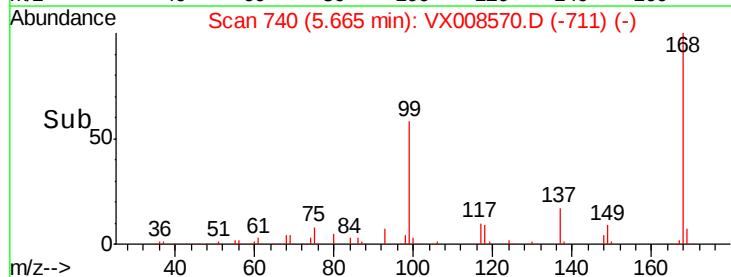
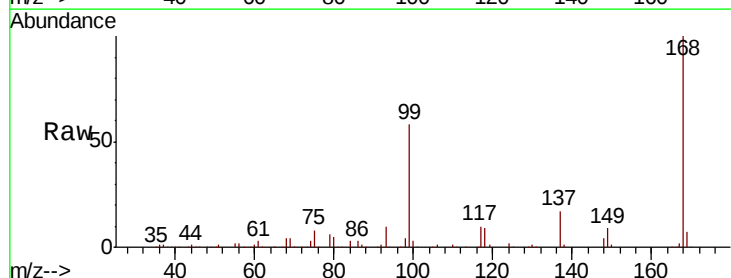
Instrument :
MSVOA_X
ClientSampleId :

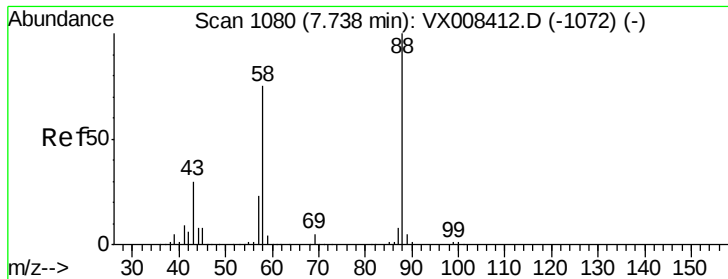
Tot Ion: 43 Resp: 9149
Ion Ratio Lower Upper
43 100
61 0.9 10.5 15.7#
70 0.0 7.8 11.8#



#38
Carbon Tetrachloride
Concen: 6.681 ug/l
RT: 5.67 min Scan# 740
Delta R.T. -0.12 min
Lab File: VX008570.D
Acq: 01 Apr 2019 15:47

Tgt Ion: 117 Resp: 21982
Ion Ratio Lower Upper
117 100
119 5.5 76.7 115.1#
121 0.0 24.3 36.5#

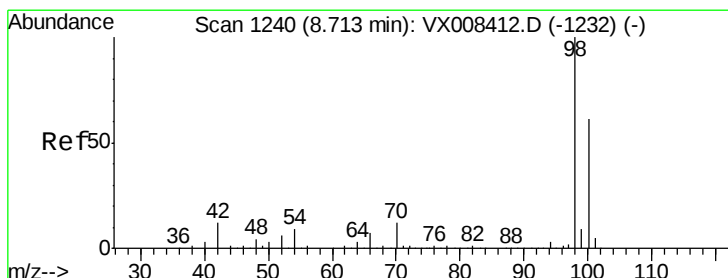
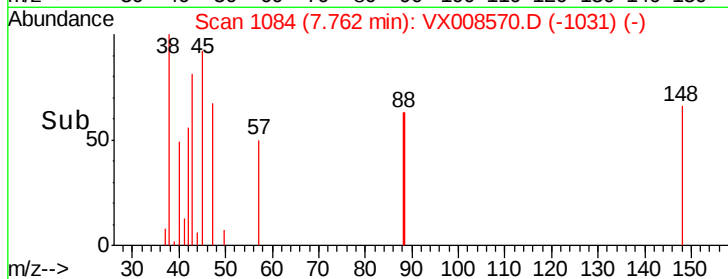
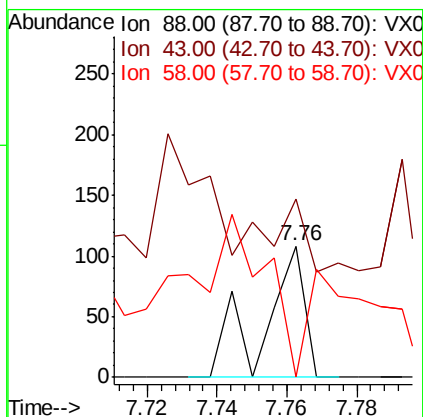
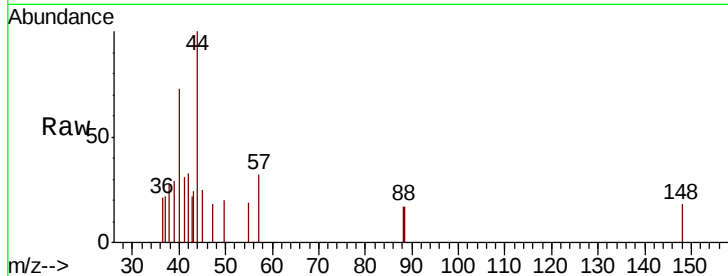




#49
1,4-Dioxane
Concen: 1.058 ug/l
RT: 7.76 min Scan# 1084
Delta R.T. 0.02 min
Lab File: VX008570.D
Acq: 01 Apr 2019 15:47

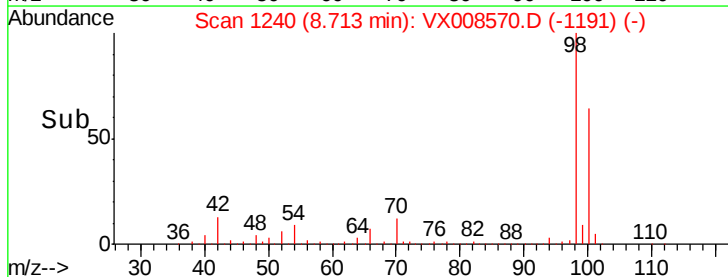
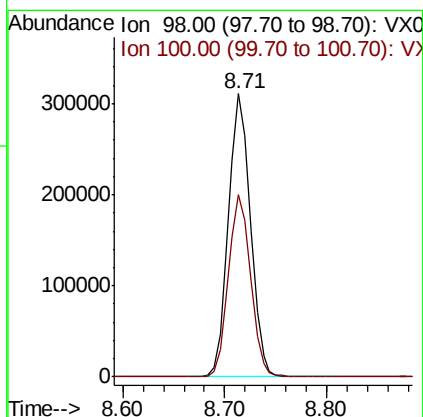
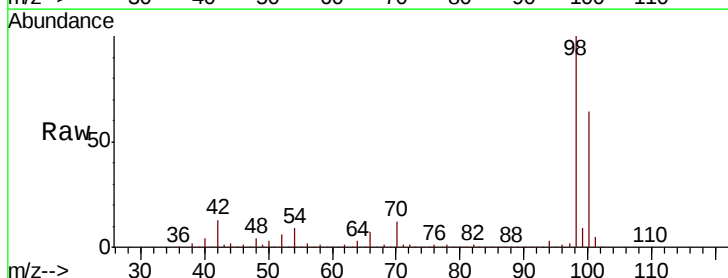
Instrument :
MSVOA_X
ClientSampled :

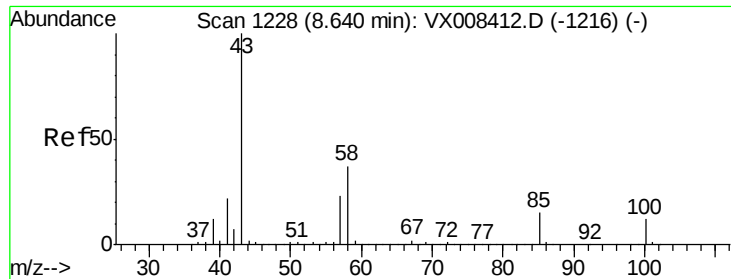
Tot Ion: 88 Resp: 86
Ion Ratio Lower Upper
88 100
43 0.0 28.6 43.0#
58 143.0 63.0 94.4#



#50
Toluene-d8
Concen: 48.180 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX008570.D
Acq: 01 Apr 2019 15:47

Tgt Ion: 98 Resp: 464512
Ion Ratio Lower Upper
98 100
100 64.4 51.1 76.7





#51

4-Methyl-2-Pentanone

Concen: 0.447 ug/l

RT: 8.65 min Scan# 1229

Delta R.T. 0.01 min

Lab File: VX008570.D

Acq: 01 Apr 2019 15:47

Instrument :

MSVOA_X

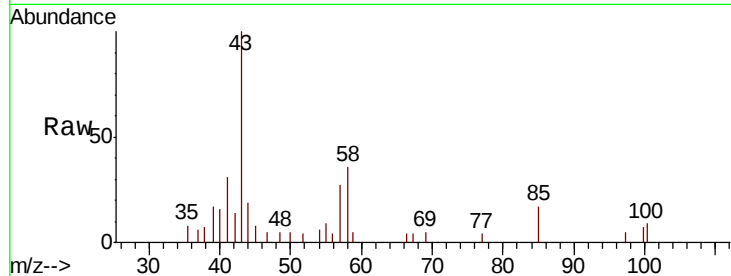
ClientSampled :

Tot Ion: 43 Resp: 2372

Ion Ratio Lower Upper

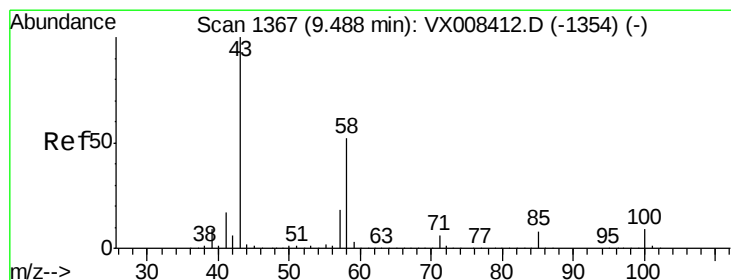
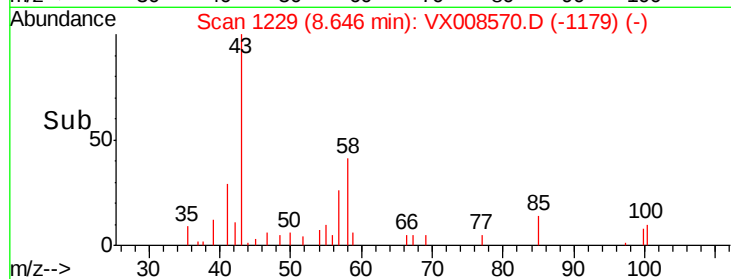
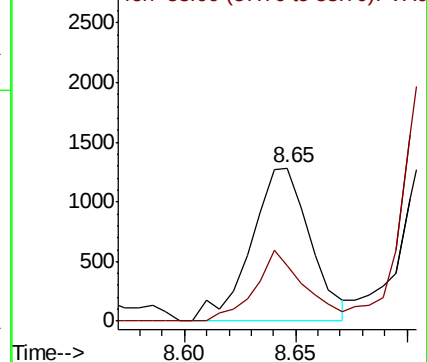
43 100

58 38.5 29.8 44.8



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#59

2-Hexanone

Concen: 0.318 ug/l

RT: 9.50 min Scan# 1369

Delta R.T. 0.01 min

Lab File: VX008570.D

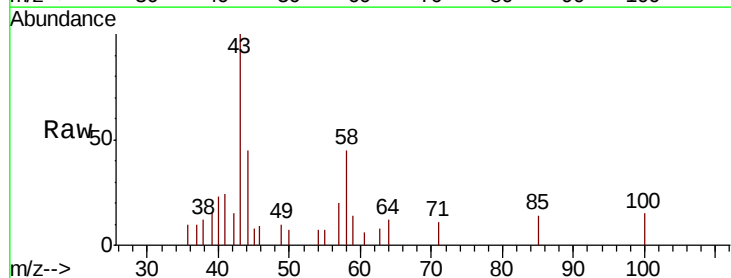
Acq: 01 Apr 2019 15:47

Tgt Ion: 43 Resp: 1306

Ion Ratio Lower Upper

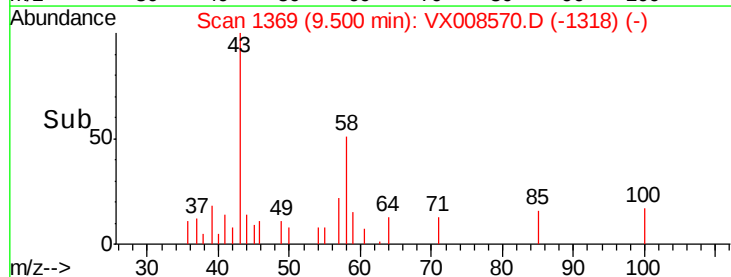
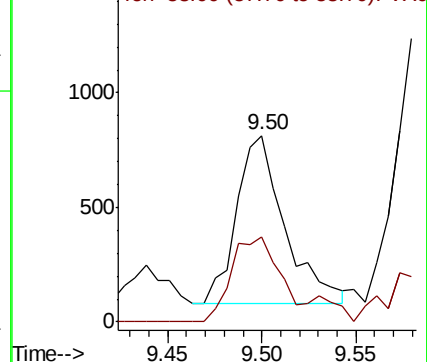
43 100

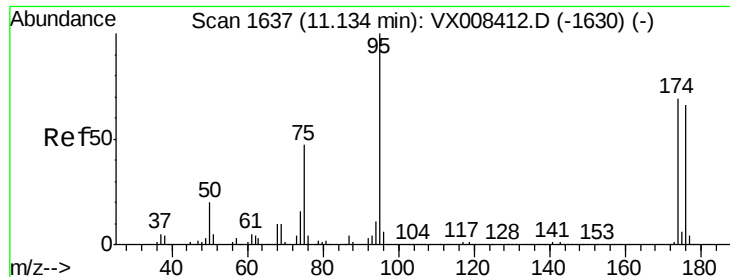
58 52.0 26.3 78.9



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#62

4-Bromofluorobenzene

Concen: 44.491 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX008570.D

Acq: 01 Apr 2019 15:47

Instrument :

MSVOA_X

ClientSampleId :

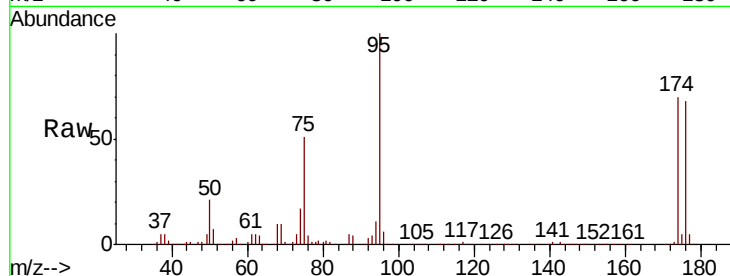
Tot Ion: 95 Resp: 158953

Ion Ratio Lower Upper

95 100

174 73.8 0.0 147.2

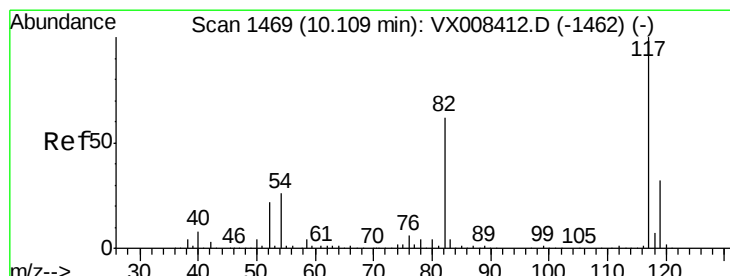
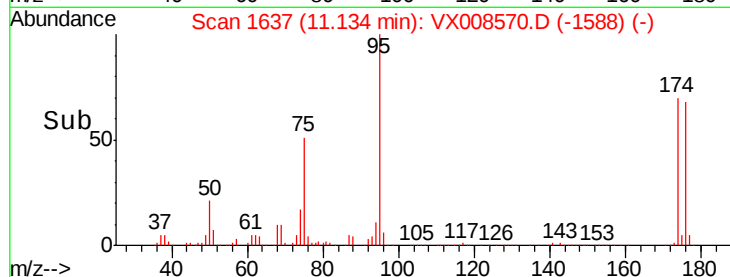
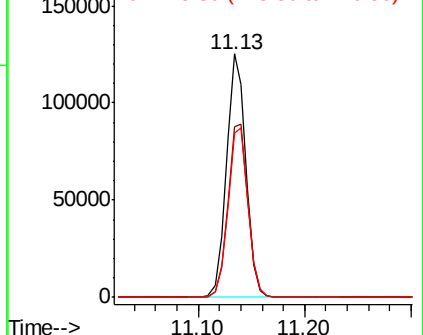
176 71.9 0.0 142.4



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VX008570.D

Acq: 01 Apr 2019 15:47

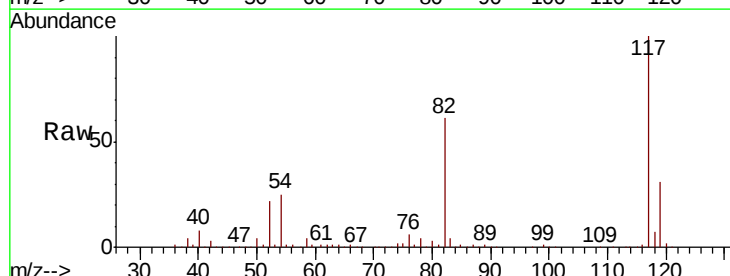
Tgt Ion: 117 Resp: 321233

Ion Ratio Lower Upper

117 100

82 60.7 49.4 74.2

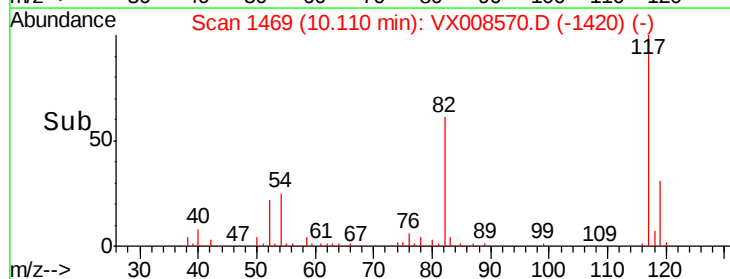
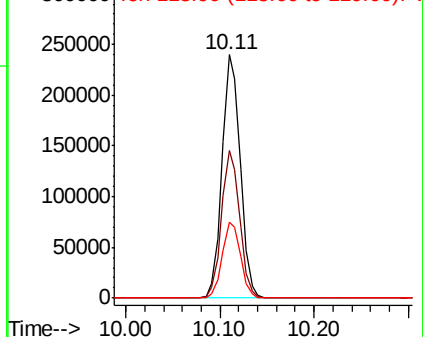
119 31.4 25.4 38.0

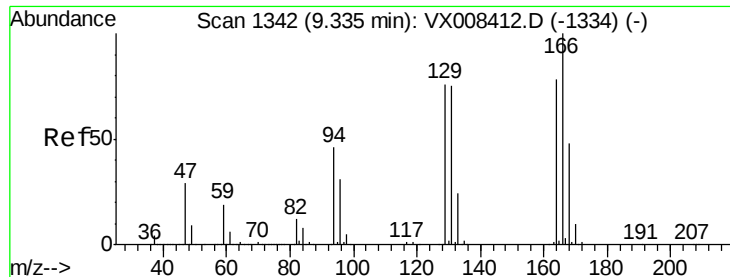


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#64

Tetrachloroethene

Concen: 0.233 ug/l

RT: 9.34 min Scan# 1342

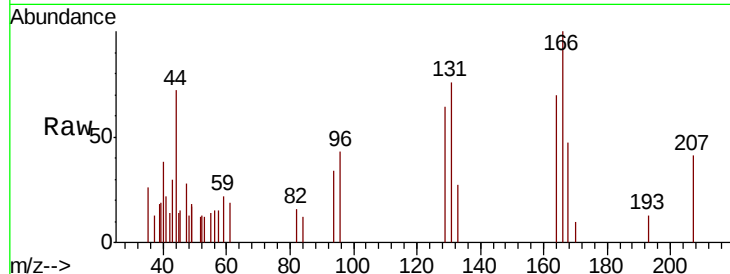
Delta R.T. 0.00 min

Lab File: VX008570.D

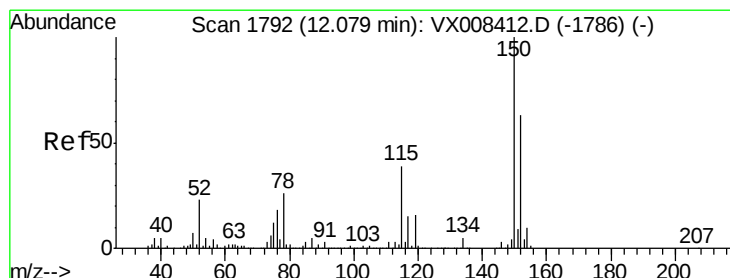
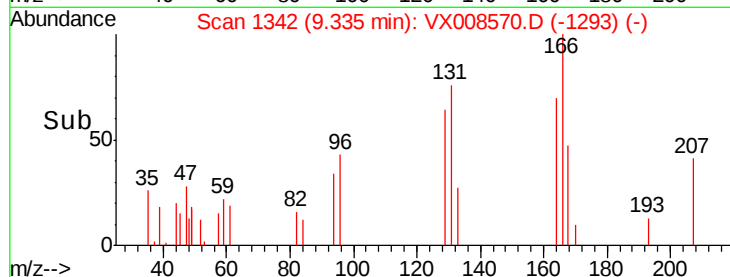
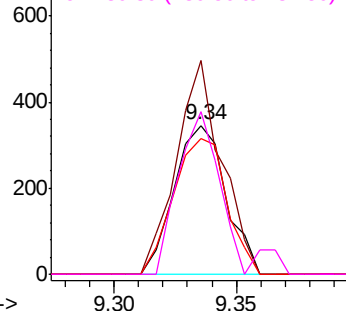
Acq: 01 Apr 2019 15:47

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:	164	Resp:	507
Ion	Ratio	Lower	Upper
164	100		
166	143.8	102.5	153.7
129	91.3	77.8	116.8
131	109.3	76.9	115.3



Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

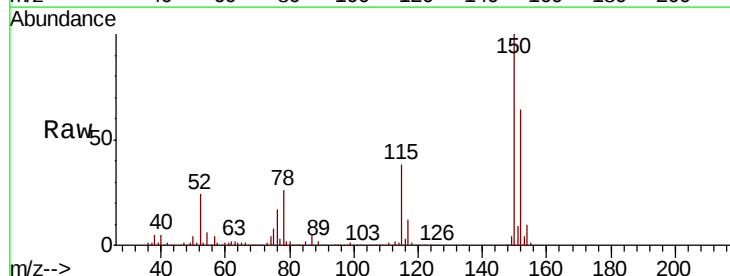
RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

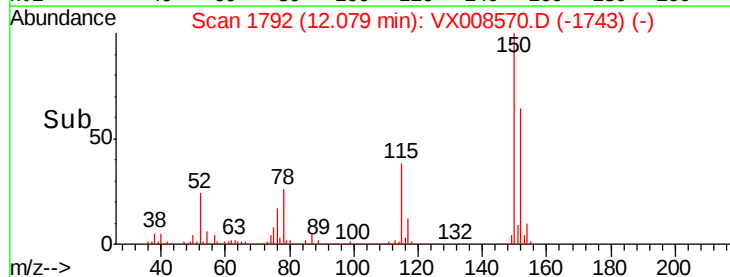
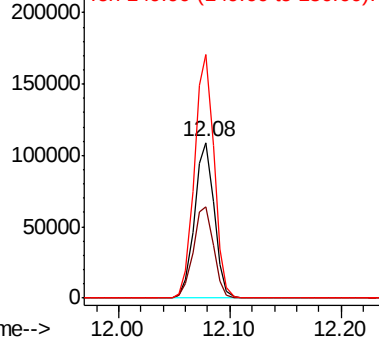
Lab File: VX008570.D

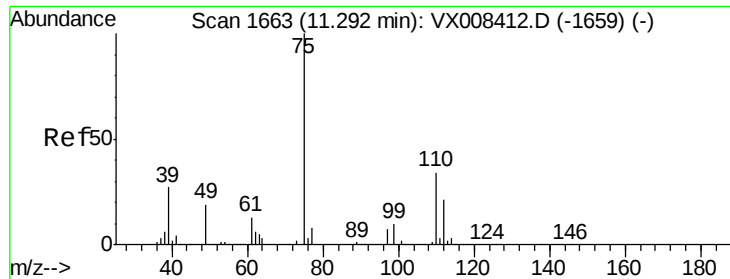
Acq: 01 Apr 2019 15:47

Tgt Ion:	152	Resp:	132105
Ion	Ratio	Lower	Upper
152	100		
115	61.2	43.5	130.5
150	157.4	0.0	348.8



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: 20.453 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX008570.D

Acq: 01 Apr 2019 15:47

Instrument :

MSVOA_X

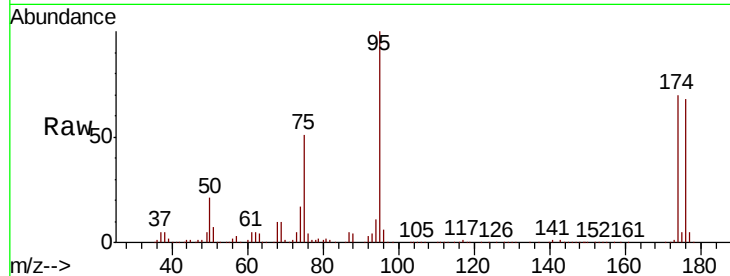
ClientSampleId :

Tot Ion: 75 Resp: 80326

Ion Ratio Lower Upper

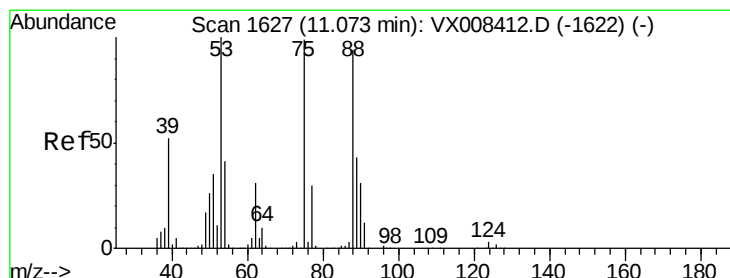
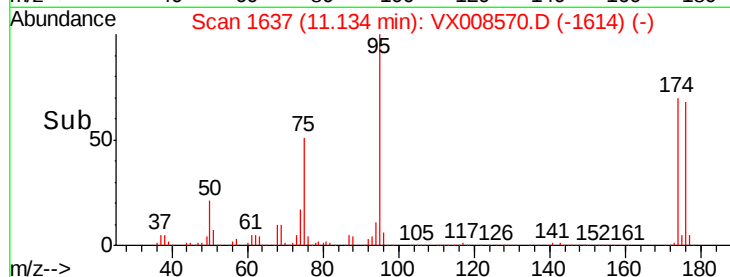
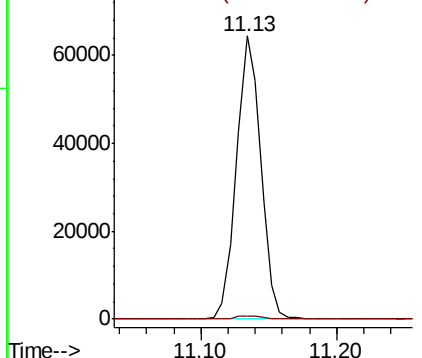
75 100

77 1.3 21.9 65.7#



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: 65.508 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX008570.D

Acq: 01 Apr 2019 15:47

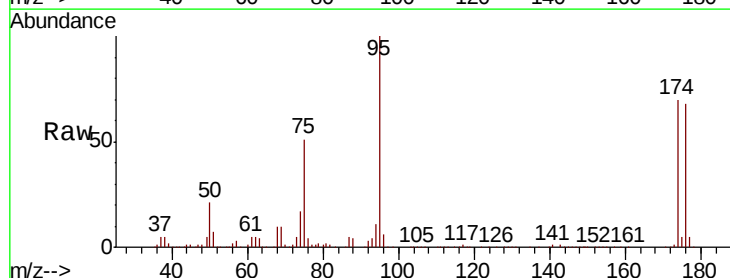
Tgt Ion: 75 Resp: 80326

Ion Ratio Lower Upper

75 100

53 0.0 82.1 123.1#

89 0.0 34.6 52.0#



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

