

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX040119\
 Data File : VX008577.D
 Acq On : 01 Apr 2019 18:30
 Operator : JC/SP
 Sample : K2210-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Apr 02 01:14:26 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

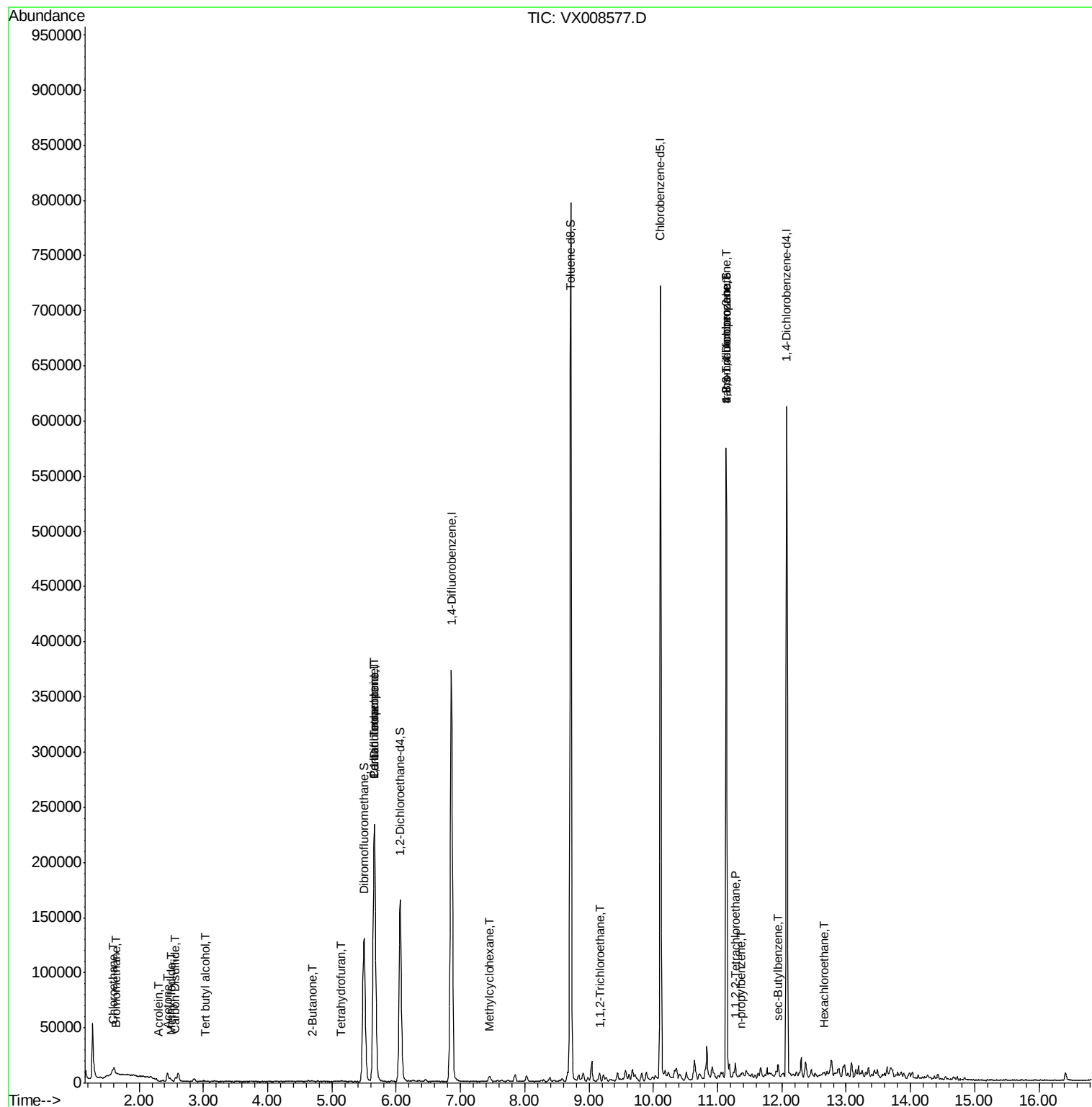
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	219706	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	363731	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	309042	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	122365	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.06	65	153776	46.17	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.34%	
35) Dibromofluoromethane	5.50	113	113490	47.85	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.70%	
50) Toluene-d8	8.71	98	456819	48.17	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.34%	
62) 4-Bromofluorobenzene	11.13	95	149802	42.63	ug/l	0.00
Spiked Amount	50.000		Recovery	=	85.26%	
Target Compounds						
					Qvalue	
3) Chloromethane	1.32	50	599	Below Cal		98
5) Bromomethane	1.64	94	534	2.079 ug/l		99
6) Chloroethane	1.59	64	785	0.366 ug/l #		43
10) Methyl Iodide	2.51	142	376	4.272 ug/l #		82
11) Tert butyl alcohol	3.03	59	935	1.267 ug/l #		86
13) Acrolein	2.31	56	217	0.405 ug/l #		14
16) Acetone	2.44	43	8286	4.760 ug/l		100
17) Carbon Disulfide	2.57	76	4287	0.202 ug/l		100
20) Methylene Chloride	2.85	84	1086	Below Cal		95
21) trans-1,2-Dichloroethene	3.17	96	83	Below Cal #		31
25) 2-Butanone	4.69	43	1363	0.488 ug/l #		89
29) Tetrahydrofuran	5.15	42	471	0.256 ug/l		91
36) 1,1-Dichloropropene	5.66	75	18621	4.801 ug/l #		51
38) Carbon Tetrachloride	5.66	117	21530	6.652 ug/l #		16
39) Methylcyclohexane	7.45	83	1524	0.329 ug/l #		86
55) 1,1,2-Trichloroethane	9.16	97	2337	0.827 ug/l #		19
75) 1,1,2,2-Tetrachloroethane	11.27	83	1177	0.305 ug/l #		39
76) 1,2,3-Trichloropropane	11.13	75	76193	20.945 ug/l #		34
78) n-propylbenzene	11.36	91	2337	0.200 ug/l		94
81) trans-1,4-Dichloro-2-buten	11.13	75	76193	67.083 ug/l #		9
85) sec-Butylbenzene	11.94	105	3418	0.353 ug/l #		74
90) Hexachloroethane	12.66	117	397	0.279 ug/l #		10

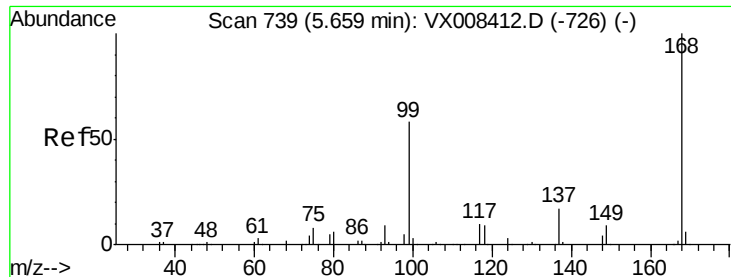
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX008577.D

Acq: 01 Apr 2019 18:30

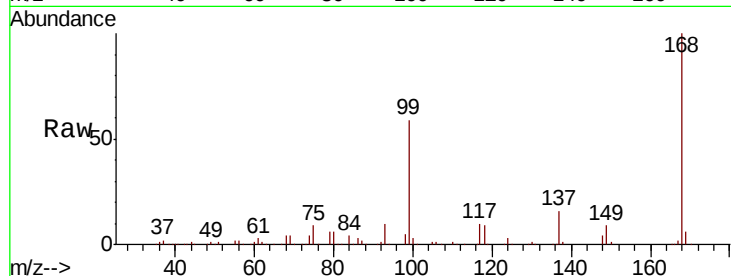
Instrument :
MSVOA_X
ClientSampled :

Tot Ion:168 Resp: 219706

Ion Ratio Lower Upper

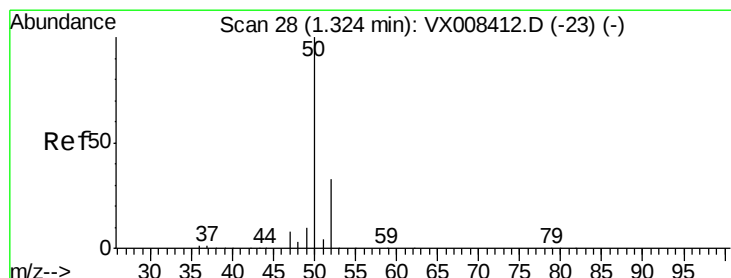
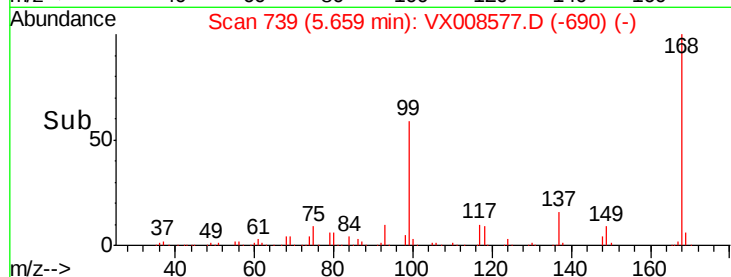
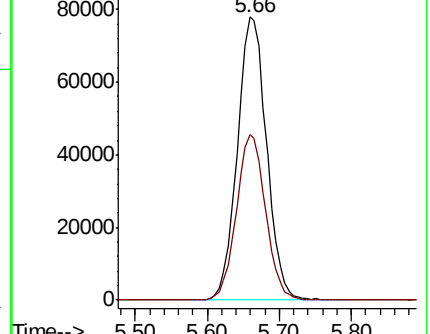
168 100

99 58.6 46.0 69.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 28

Delta R.T. 0.00 min

Lab File: VX008577.D

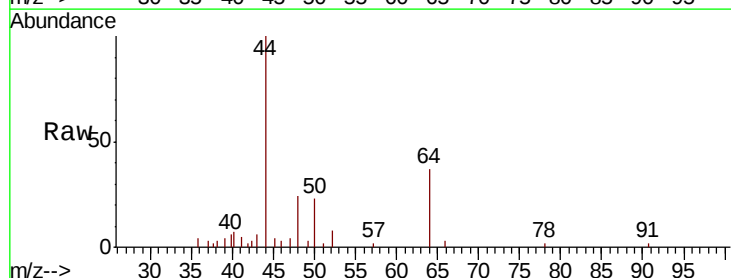
Acq: 01 Apr 2019 18:30

Tgt Ion: 50 Resp: 599

Ion Ratio Lower Upper

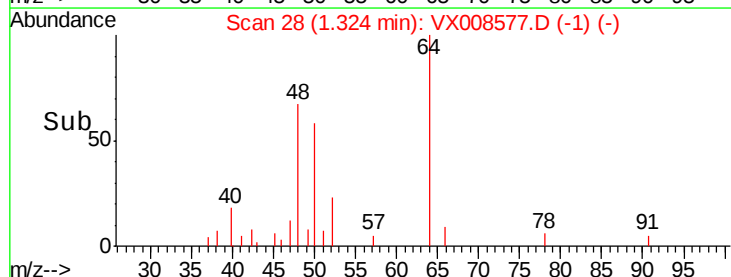
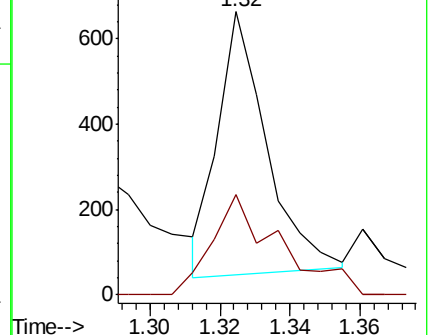
50 100

52 31.4 26.2 39.2



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: 2.079 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX008577.D

Acq: 01 Apr 2019 18:30

Instrument :

MSVOA_X

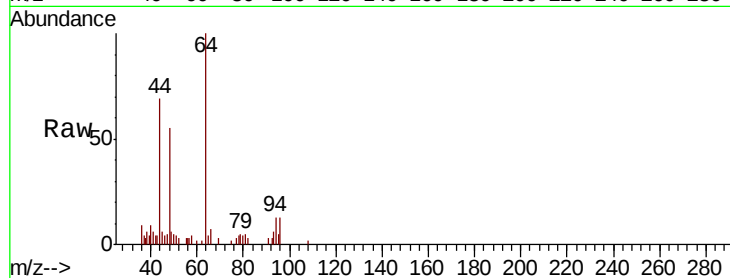
ClientSampleId :

Tot Ion: 94 Resp: 534

Ion Ratio Lower Upper

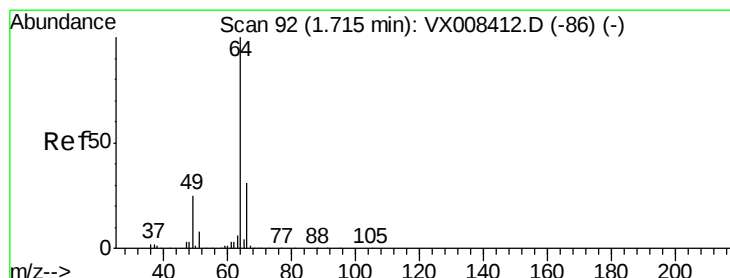
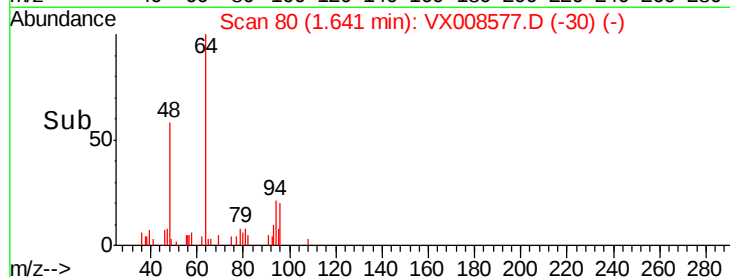
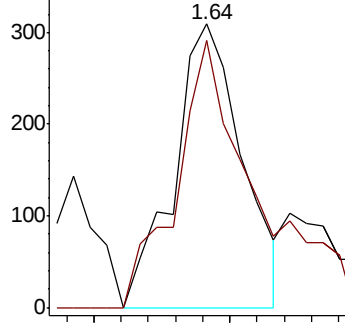
94 100

96 94.5 74.8 112.2



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: 0.366 ug/l

RT: 1.59 min Scan# 72

Delta R.T. -0.12 min

Lab File: VX008577.D

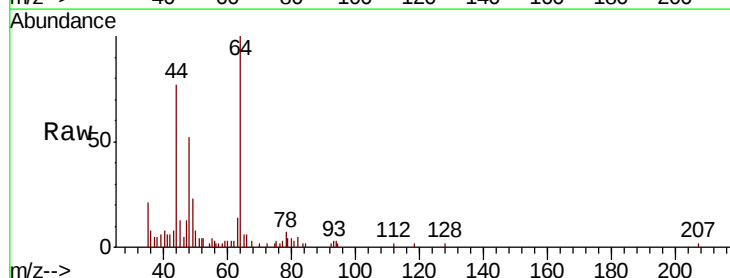
Acq: 01 Apr 2019 18:30

Tgt Ion: 64 Resp: 785

Ion Ratio Lower Upper

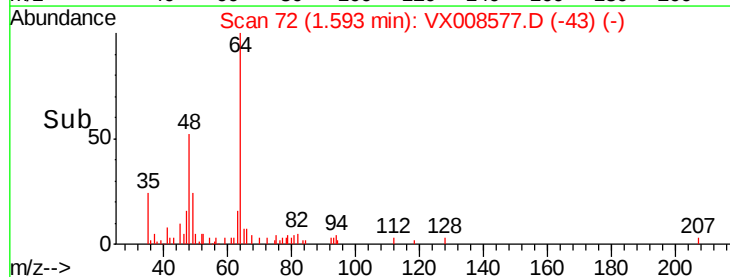
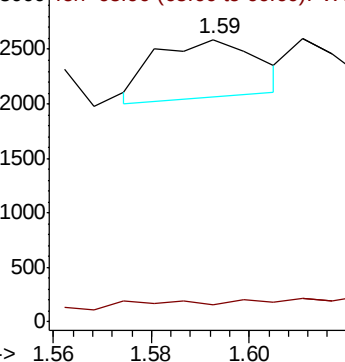
64 100

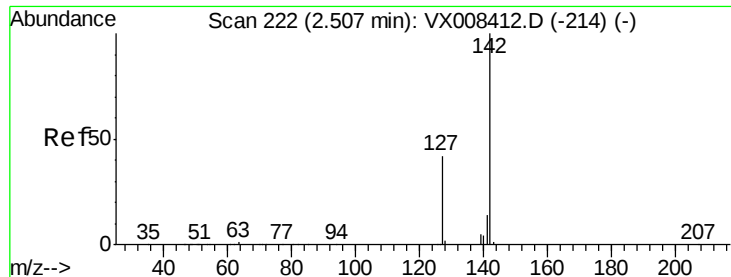
66 0.0 25.1 37.7#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

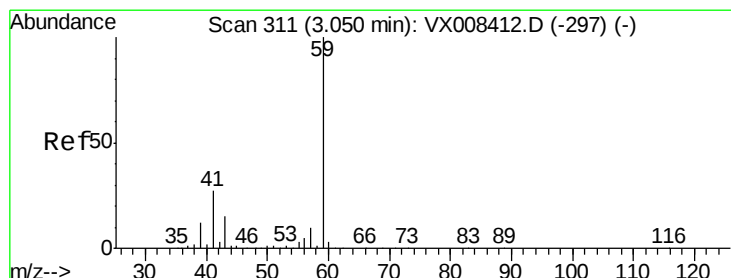
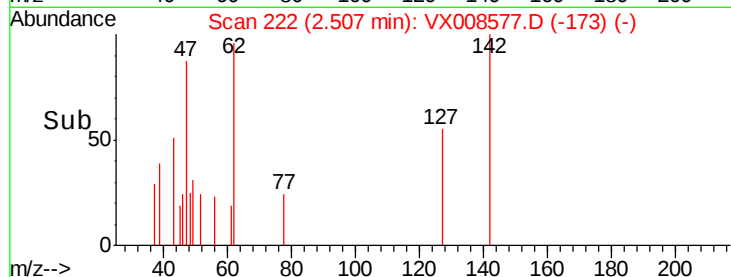
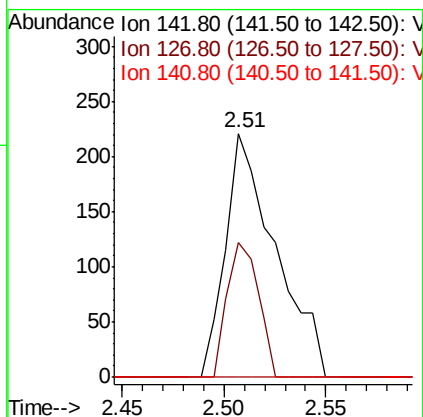
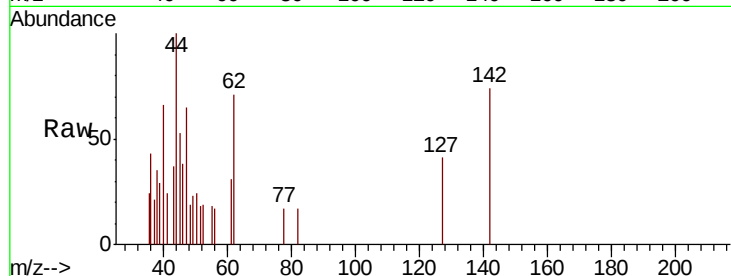




#10
Methvl Iodide
Concen: 4.272 ug/l
RT: 2.51 min Scan# 222
Delta R.T. 0.00 min
Lab File: VX008577.D
Acq: 01 Apr 2019 18:30

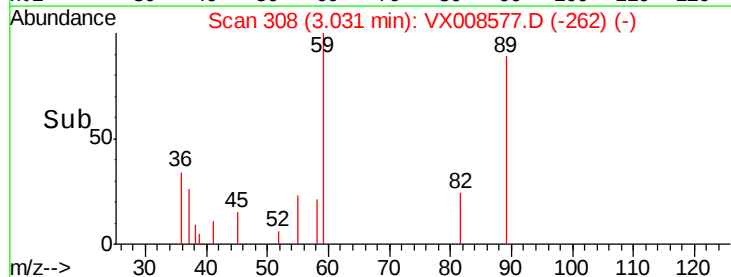
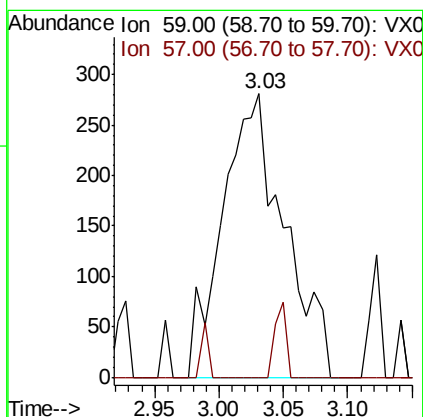
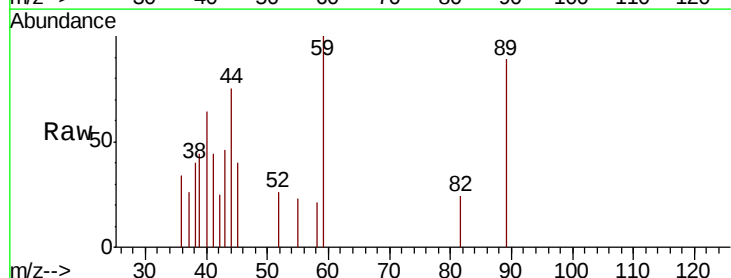
Instrument :
MSVOA_X
ClientSampled :

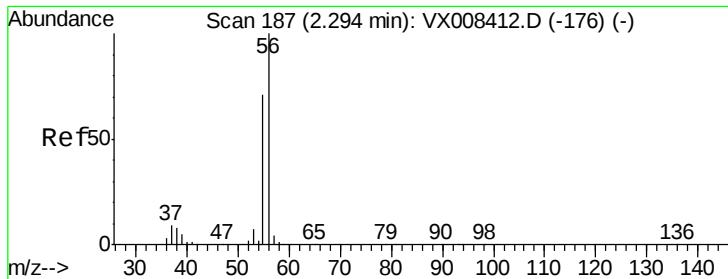
Tot Ion:142 Resp: 376
Ion Ratio Lower Upper
142 100
127 34.3 33.6 50.4
141 0.0 11.3 16.9#



#11
Tert butyl alcohol
Concen: 1.267 ug/l
RT: 3.03 min Scan# 308
Delta R.T. -0.02 min
Lab File: VX008577.D
Acq: 01 Apr 2019 18:30

Tgt Ion: 59 Resp: 935
Ion Ratio Lower Upper
59 100
57 4.9 8.2 12.4#





#13

Acrolein

Concen: 0.405 ug/l

RT: 2.31 min Scan# 189

Delta R.T. 0.01 min

Lab File: VX008577.D

Acq: 01 Apr 2019 18:30

Instrument :

MSVOA_X

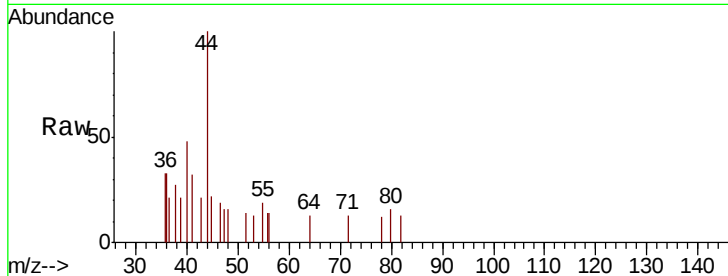
ClientSampleId :

Tot Ion: 56 Resp: 217

Ion Ratio Lower Upper

56 100

55 0.0 56.5 84.7#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

150

100

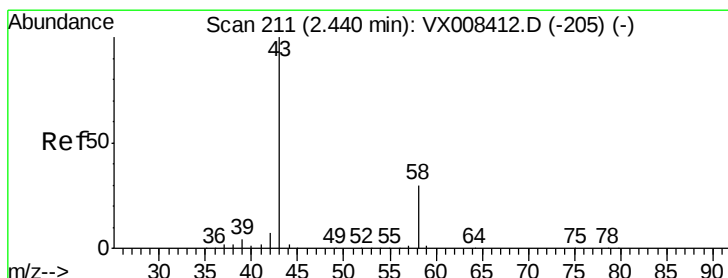
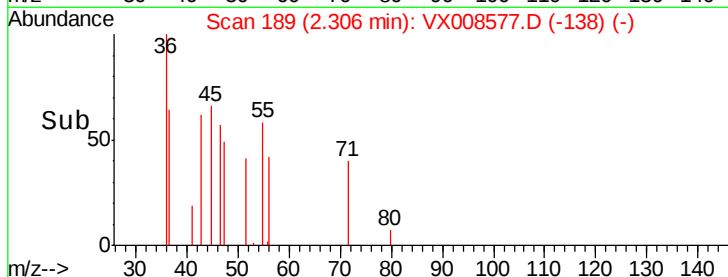
50

0

2.31

2.35

Time-->



#16

Acetone

Concen: 4.760 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.00 min

Lab File: VX008577.D

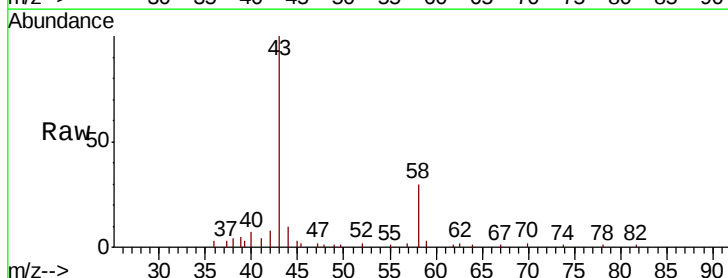
Acq: 01 Apr 2019 18:30

Tgt Ion: 43 Resp: 8286

Ion Ratio Lower Upper

43 100

58 30.0 24.2 36.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

5000

4000

3000

2000

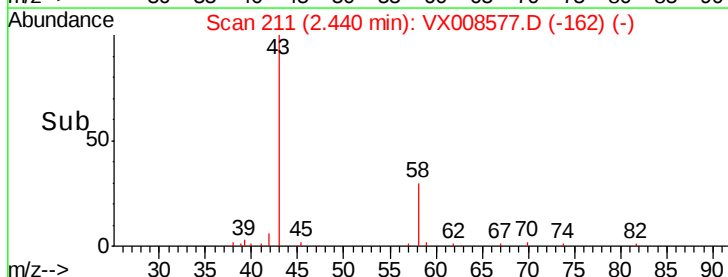
1000

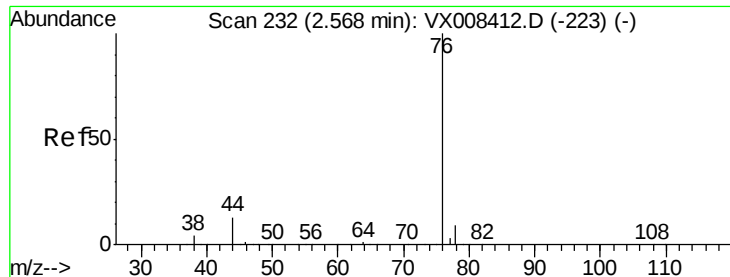
0

2.44

2.55

Time-->





#17

Carbon Disulfide

Concen: 0.202 ug/l

RT: 2.57 min Scan# 232

Delta R.T. 0.00 min

Lab File: VX008577.D

Acq: 01 Apr 2019 18:30

Instrument :

MSVOA_X

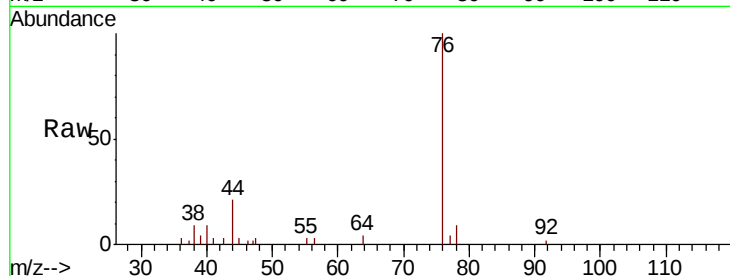
ClientSampleId :

Tot Ion: 76 Resp: 4287

Ion Ratio Lower Upper

76 100

78 9.3 7.4 11.2



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.57

2500

2000

1500

1000

500

0

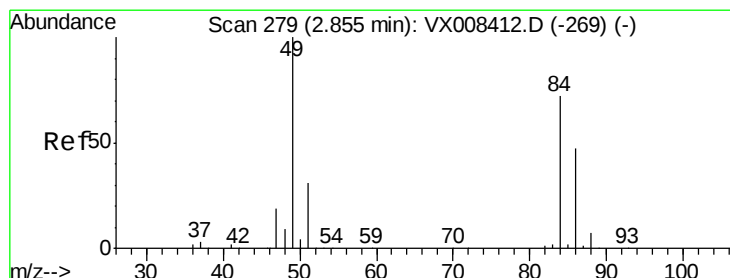
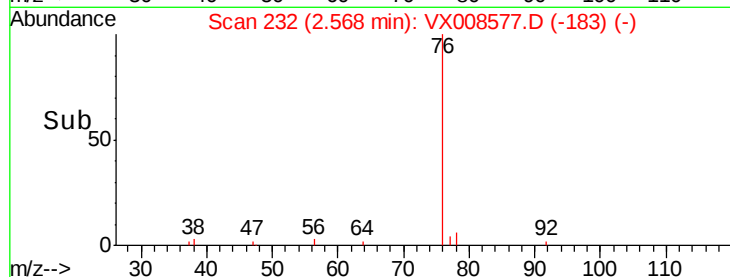
Time-->

2.50

2.55

2.60

2.65



#20

Methylene Chloride

Concen: Below Cal

RT: 2.85 min Scan# 279

Delta R.T. 0.00 min

Lab File: VX008577.D

Acq: 01 Apr 2019 18:30

Tgt Ion: 84 Resp: 1086

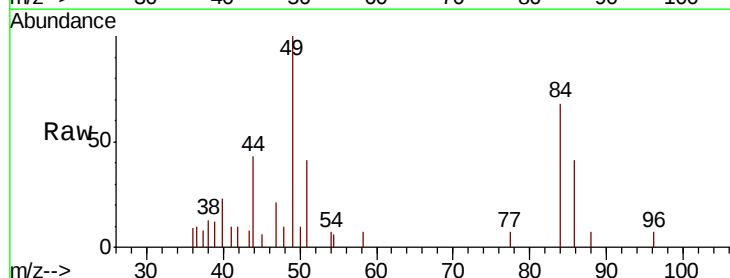
Ion Ratio Lower Upper

84 100

49 136.0 110.6 165.8

51 50.1 33.9 50.9

86 60.3 52.2 78.2



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

1200

1000

800

600

400

200

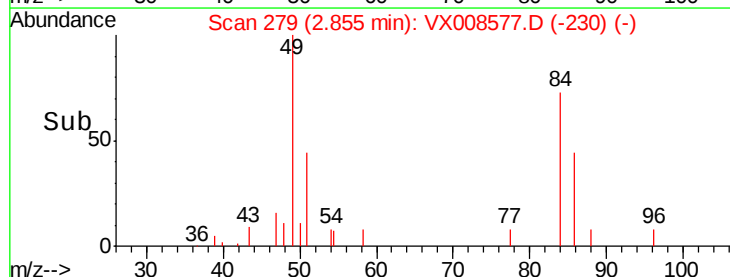
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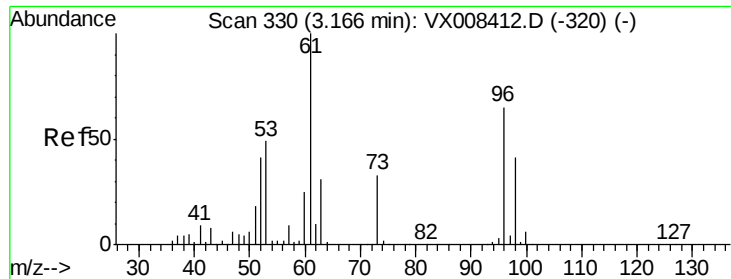
Time-->

2.80

2.85

2.90





#21

trans-1,2-Dichloroethene

Concen: Below Cal

RT: 3.17 min Scan# 330

Delta R.T. 0.00 min

Lab File: VX008577.D

Acq: 01 Apr 2019 18:30

Instrument :

MSVOA_X

ClientSampled :

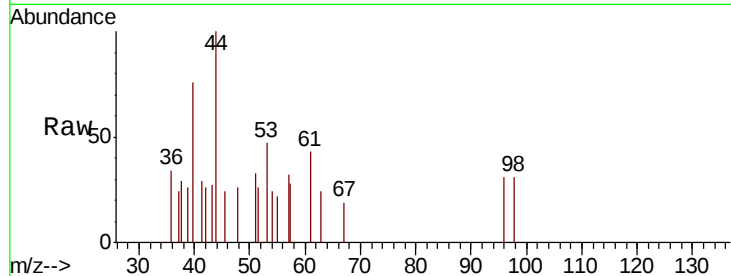
Tot Ion: 96 Resp: 83

Ion Ratio Lower Upper

96 100

61 53.6 122.6 184.0#

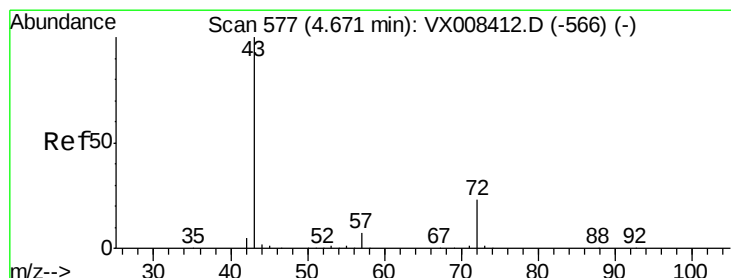
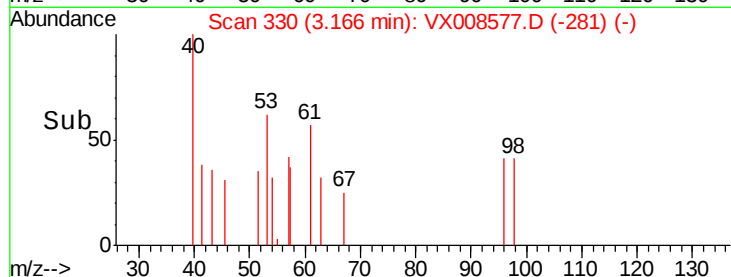
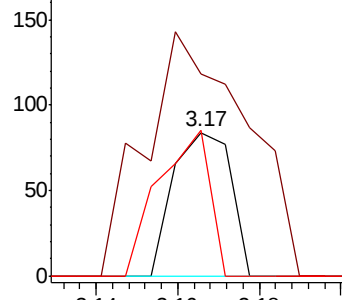
98 101.2 50.9 76.3#



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



#25

2-Butanone

Concen: 0.488 ug/l

RT: 4.69 min Scan# 580

Delta R.T. 0.02 min

Lab File: VX008577.D

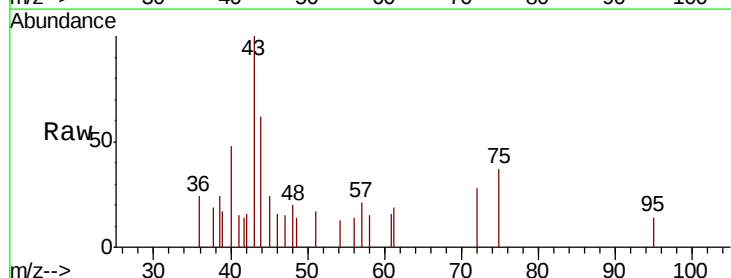
Acq: 01 Apr 2019 18:30

Tgt Ion: 43 Resp: 1363

Ion Ratio Lower Upper

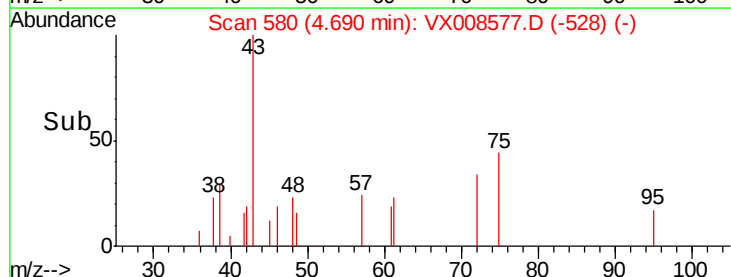
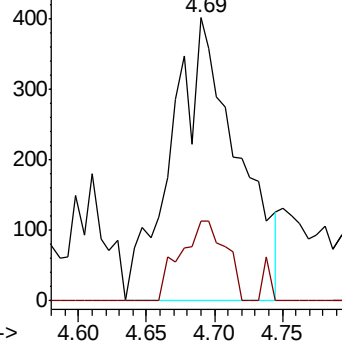
43 100

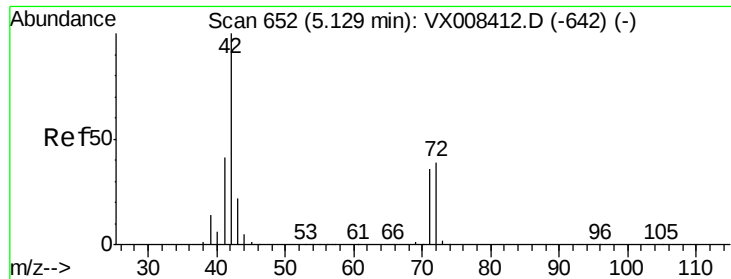
72 28.4 18.6 28.0#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0





#29

Tetrahydrofuran

Concen: 0.256 ug/l

RT: 5.15 min Scan# 655

Delta R.T. 0.02 min

Lab File: VX008577.D

Acq: 01 Apr 2019 18:30

Instrument :

MSVOA_X

ClientSampled :

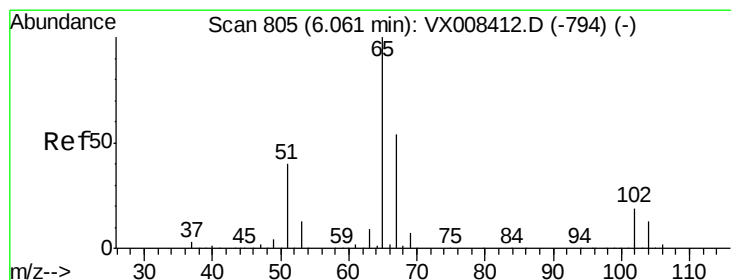
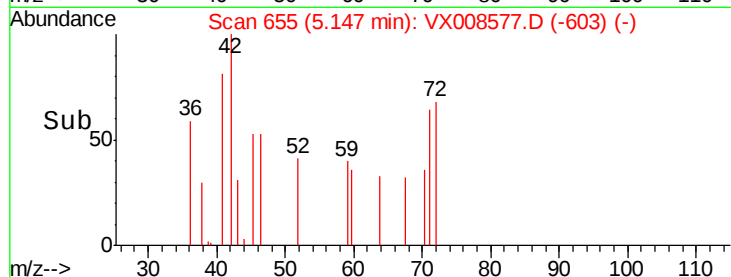
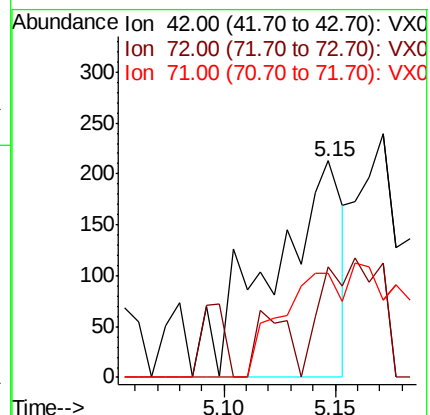
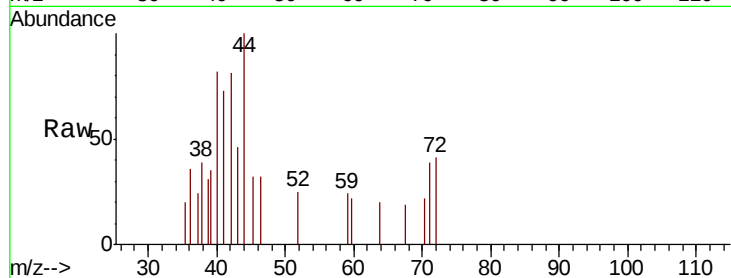
Tot Ion: 42 Resp: 471

Ion Ratio Lower Upper

42 100

72 45.2 31.4 47.2

71 42.0 29.4 44.2



#33

1,2-Dichloroethane-d4

Concen: 46.168 ug/l

RT: 6.06 min Scan# 805

Delta R.T. -0.00 min

Lab File: VX008577.D

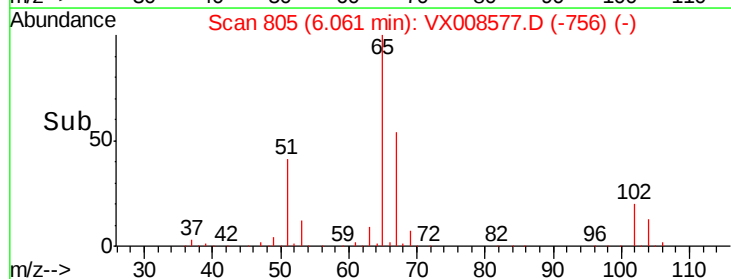
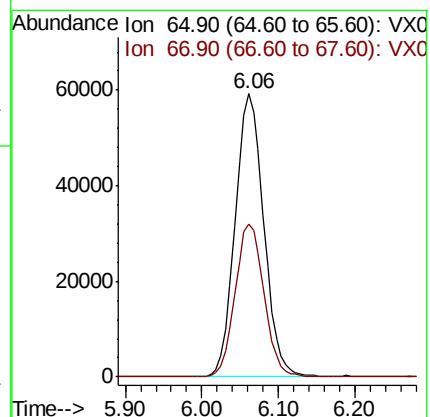
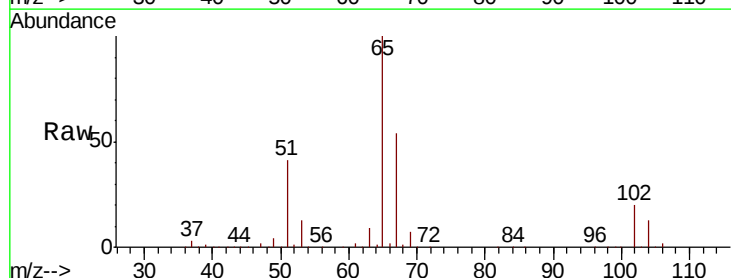
Acq: 01 Apr 2019 18:30

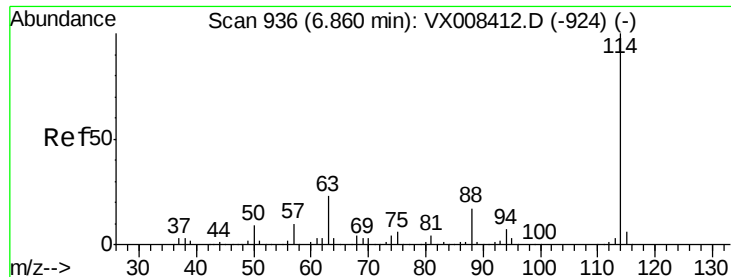
Tgt Ion: 65 Resp: 153776

Ion Ratio Lower Upper

65 100

67 54.4 0.0 109.4

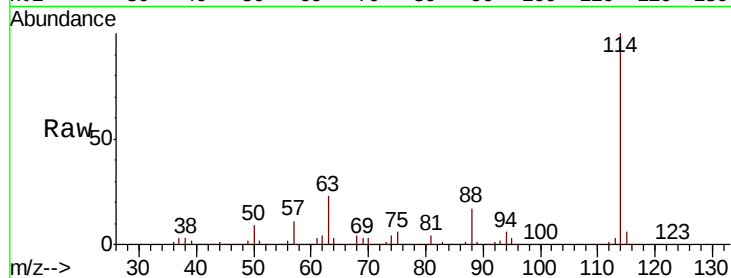




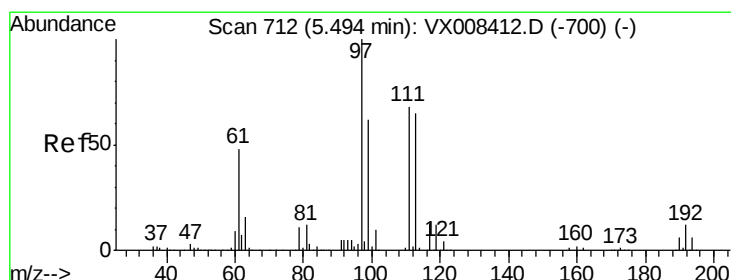
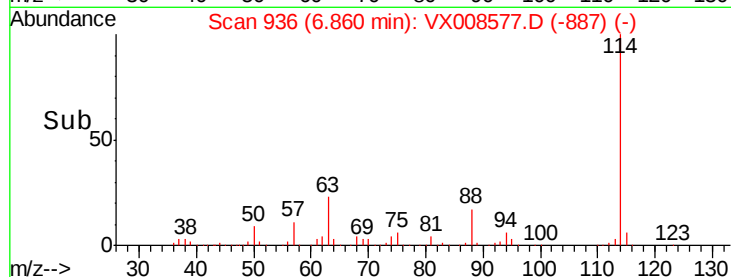
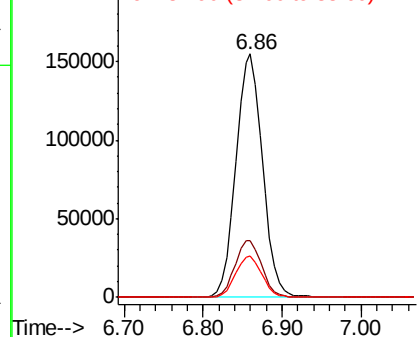
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX008577.D
 Acq: 01 Apr 2019 18:30

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion:114 Resp: 363731
 Ion Ratio Lower Upper
 114 100
 63 23.4 0.0 46.4
 88 16.8 0.0 33.2

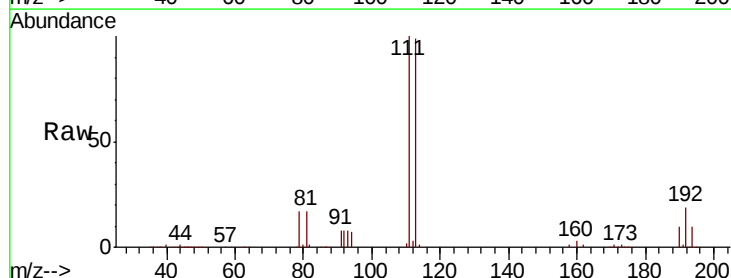


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

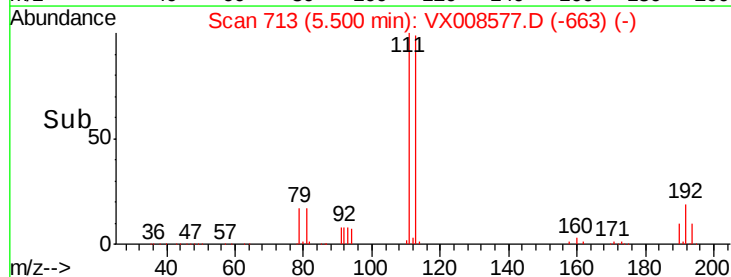
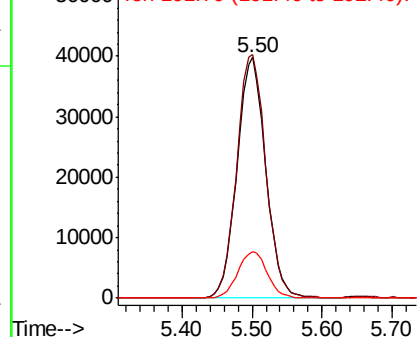


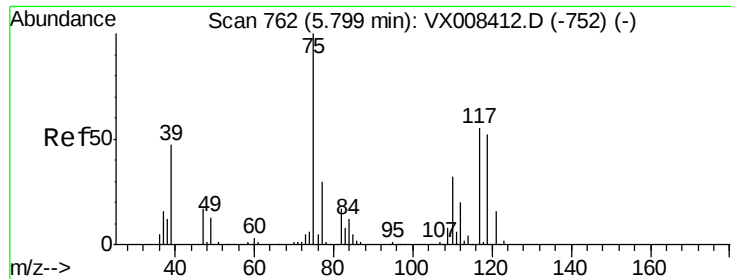
#35
 Dibromofluoromethane
 Concen: 47.852 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. 0.01 min
 Lab File: VX008577.D
 Acq: 01 Apr 2019 18:30

Tgt Ion:113 Resp: 113490
 Ion Ratio Lower Upper
 113 100
 111 102.6 83.0 124.4
 192 19.7 15.6 23.4



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

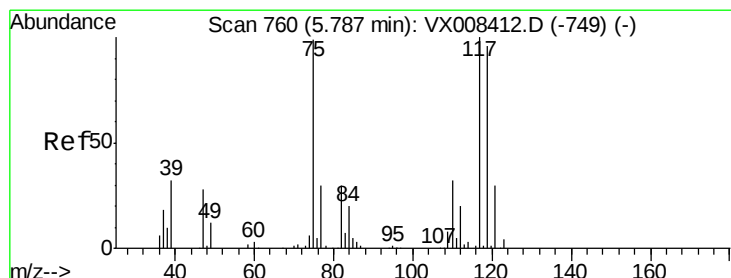
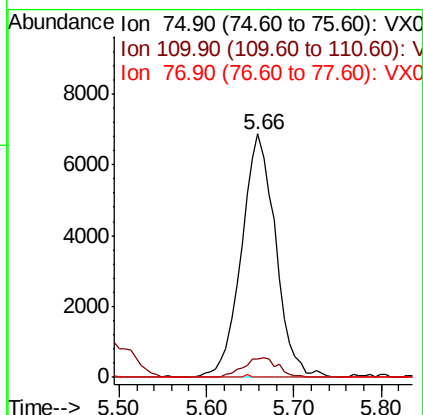
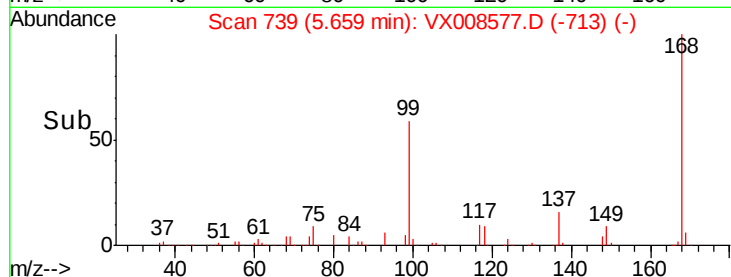
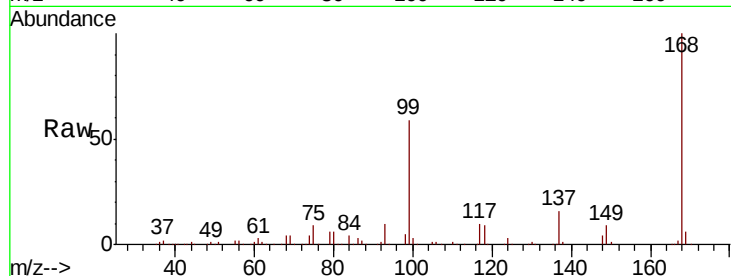




#36
 1,1-Dichloropropene
 Concen: 4.801 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX008577.D
 Acq: 01 Apr 2019 18:30

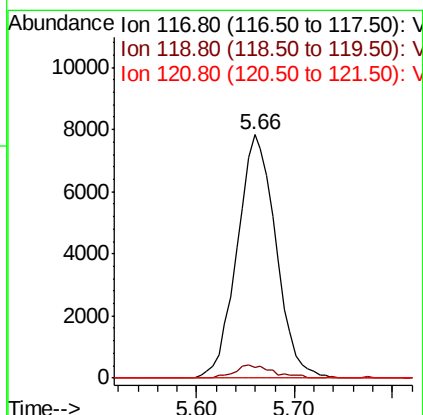
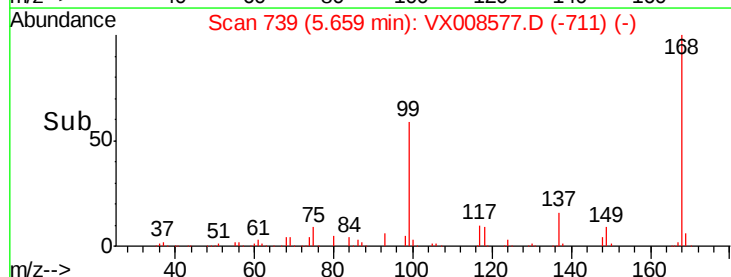
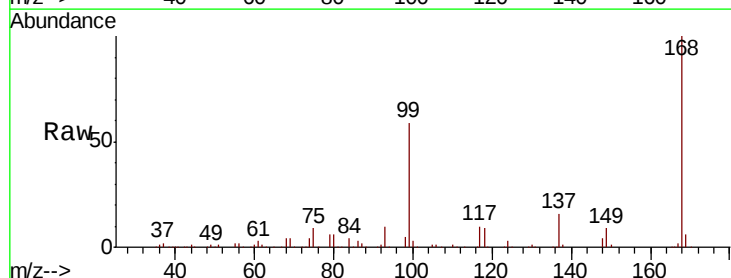
Instrument :
 MSVOA_X
 ClientSampleId :

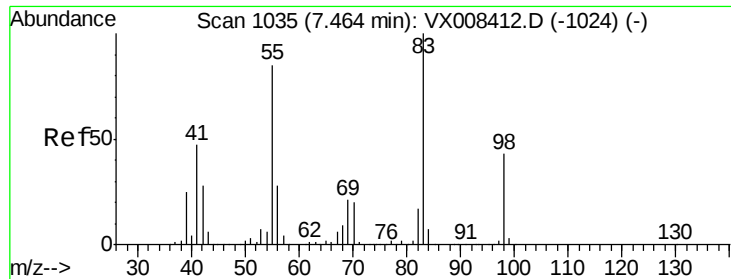
Tot Ion: 75 Resp: 18621
 Ion Ratio Lower Upper
 75 100
 110 8.2 16.6 49.7#
 77 0.1 24.2 36.2#



#38
 Carbon Tetrachloride
 Concen: 6.652 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.13 min
 Lab File: VX008577.D
 Acq: 01 Apr 2019 18:30

Tgt Ion: 117 Resp: 21530
 Ion Ratio Lower Upper
 117 100
 119 4.5 76.7 115.1#
 121 0.0 24.3 36.5#

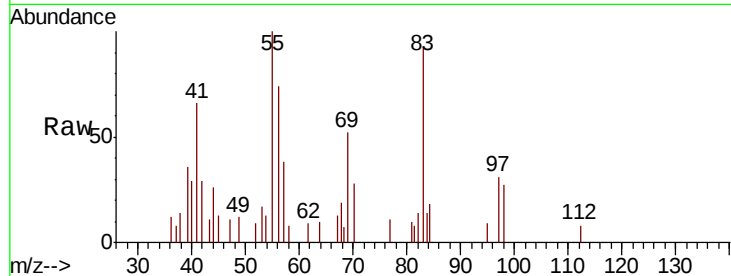




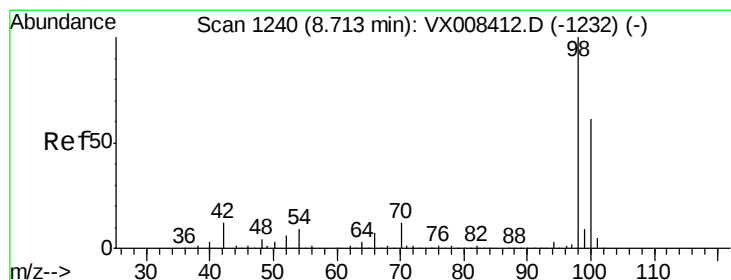
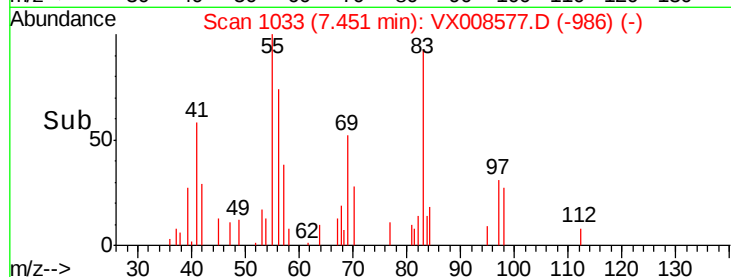
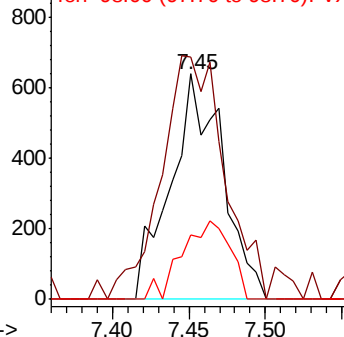
#39
Methvlcvclohexane
Concen: 0.329 ug/l
RT: 7.45 min Scan# 1033
Delta R.T. -0.01 min
Lab File: VX008577.D
Acq: 01 Apr 2019 18:30

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 83 Resp: 1524
Ion Ratio Lower Upper
83 100
55 94.4 68.2 102.4
98 28.5 34.2 51.4#

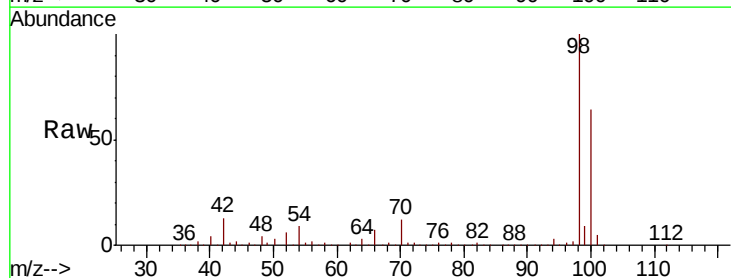


Abundance Ion 83.00 (82.70 to 83.70): VX0
Ion 55.00 (54.70 to 55.70): VX0
Ion 98.00 (97.70 to 98.70): VX0

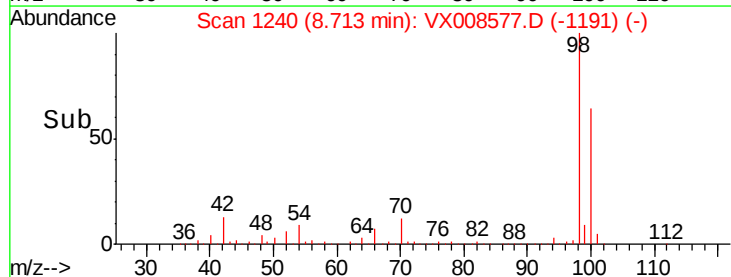
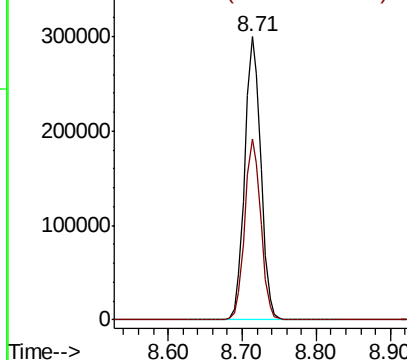


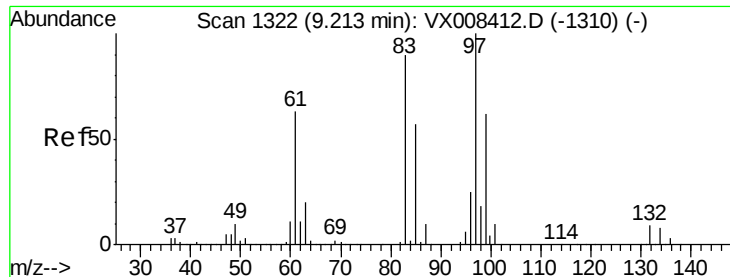
#50
Toluene-d8
Concen: 48.170 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX008577.D
Acq: 01 Apr 2019 18:30

Tgt Ion: 98 Resp: 456819
Ion Ratio Lower Upper
98 100
100 63.8 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VX0
Ion 100.00 (99.70 to 100.70): VX0

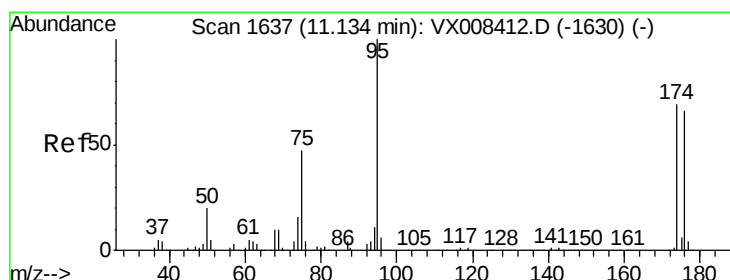
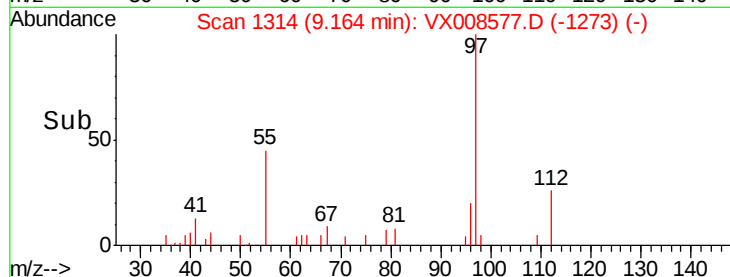
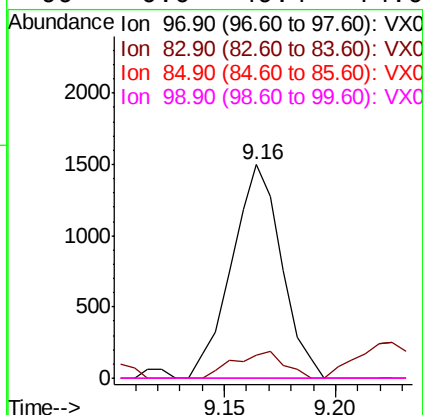
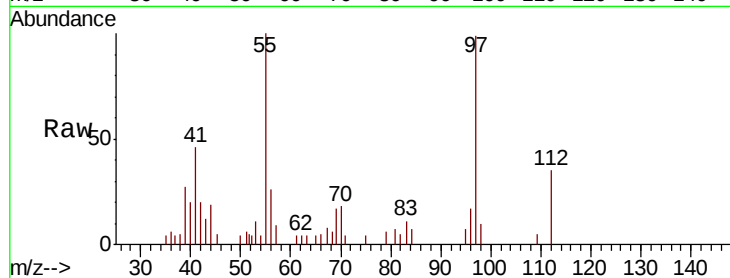




#55
 1,1,2-Trichloroethane
 Concen: 0.827 ug/l
 RT: 9.16 min Scan# 1314
 Delta R.T. -0.05 min
 Lab File: VX008577.D
 Acq: 01 Apr 2019 18:30

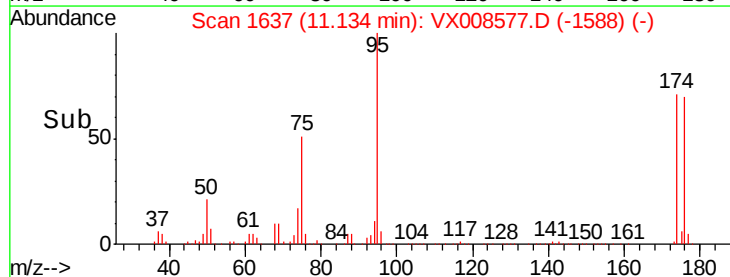
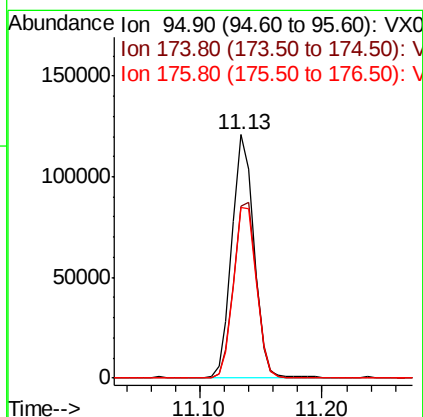
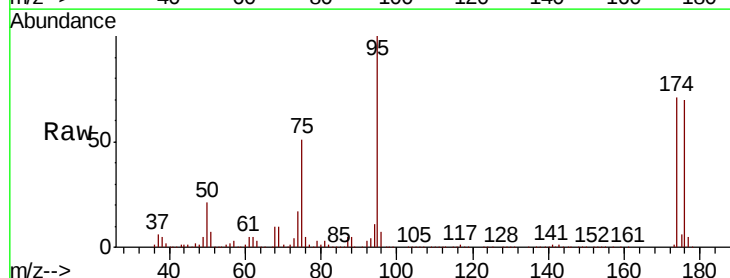
Instrument :
 MSVOA_X
 ClientSampleId :

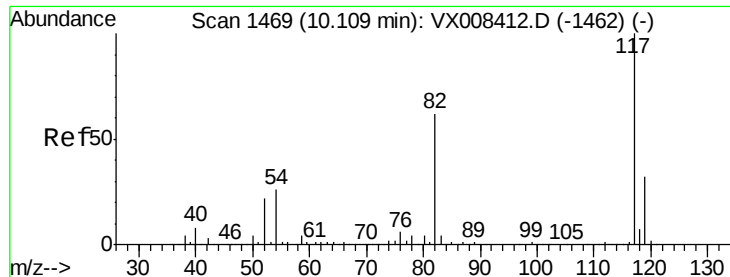
Tot Ion: 97 Resp: 2337
 Ion Ratio Lower Upper
 97 100
 83 10.9 71.8 107.6#
 85 0.0 45.9 68.9#
 99 0.0 49.4 74.0#



#62
 4-Bromofluorobenzene
 Concen: 42.628 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.00 min
 Lab File: VX008577.D
 Acq: 01 Apr 2019 18:30

Tgt Ion: 95 Resp: 149802
 Ion Ratio Lower Upper
 95 100
 174 75.1 0.0 147.2
 176 72.8 0.0 142.4

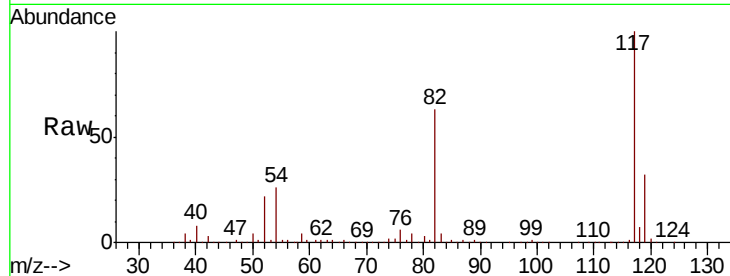




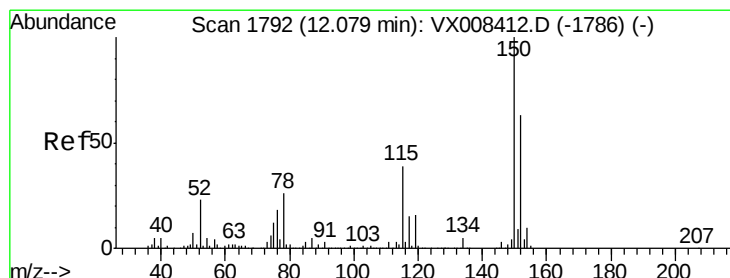
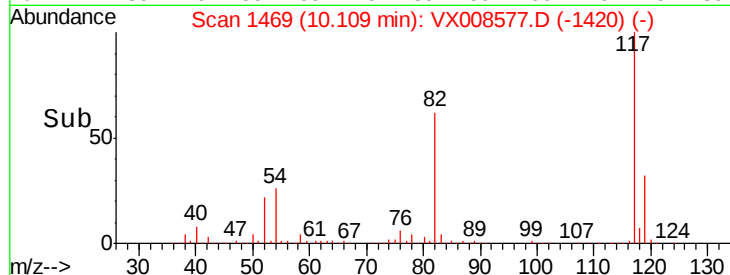
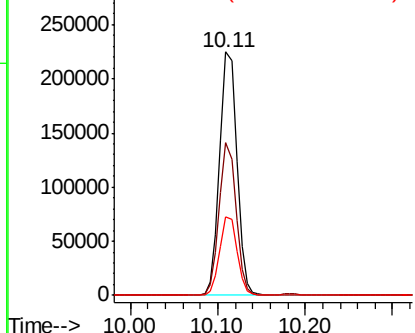
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX008577.D
Acq: 01 Apr 2019 18:30

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:117 Resp: 309042
Ion Ratio Lower Upper
117 100
82 62.5 49.4 74.2
119 32.2 25.4 38.0

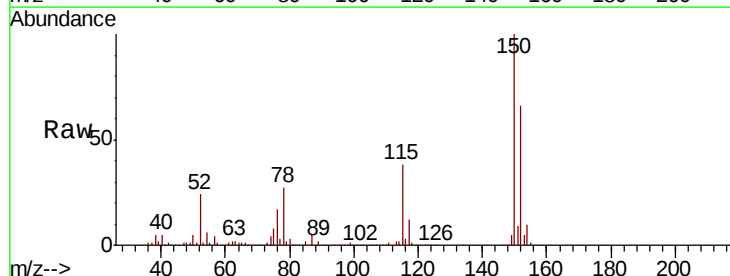


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

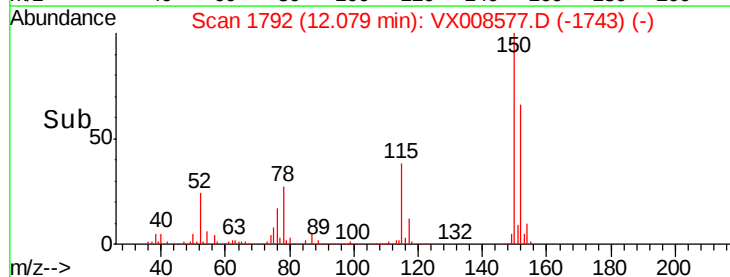
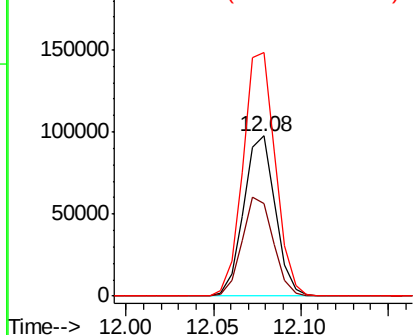


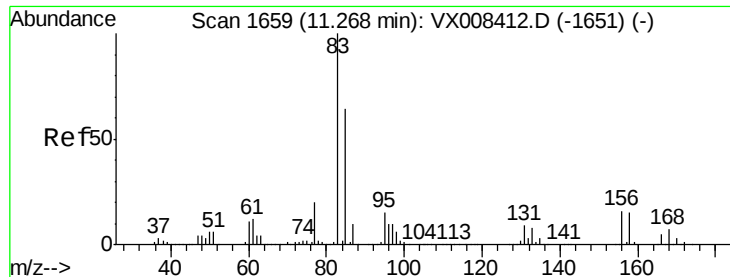
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX008577.D
Acq: 01 Apr 2019 18:30

Tgt Ion:152 Resp: 122365
Ion Ratio Lower Upper
152 100
115 61.6 43.5 130.5
150 156.2 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





#75

1,1,2,2-Tetrachloroethane

Concen: 0.305 ug/l

RT: 11.27 min Scan# 1660

Delta R.T. 0.01 min

Lab File: VX008577.D

Acq: 01 Apr 2019 18:30

Instrument :

MSVOA_X

ClientSampleId :

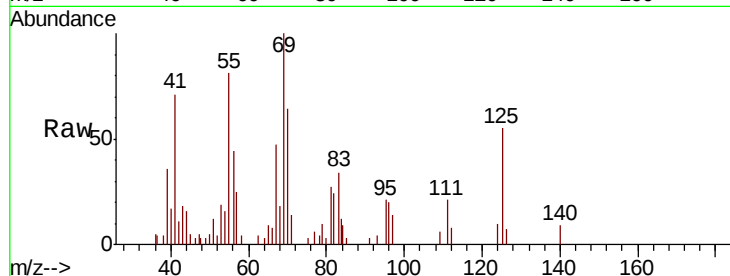
Tot Ion: 83 Resp: 1177

Ion Ratio Lower Upper

83 100

131 0.0 4.5 13.4#

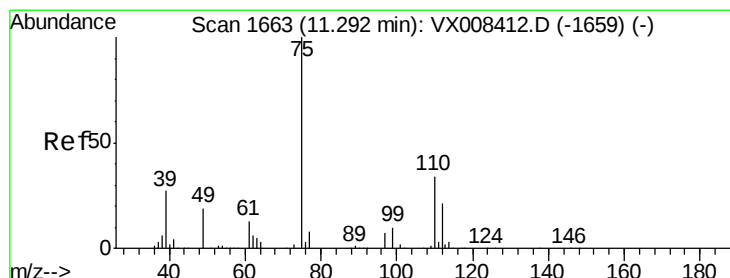
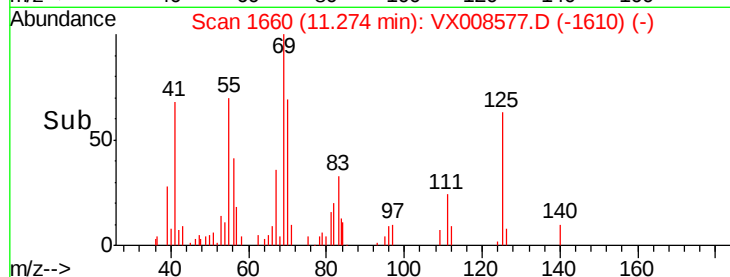
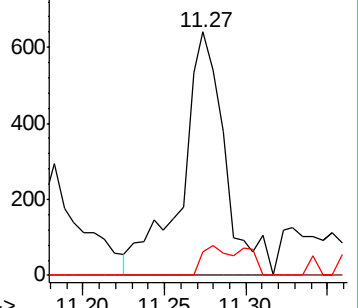
85 12.2 31.9 95.9#



Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VX0



#76

1,2,3-Trichloropropane

Concen: 20.945 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX008577.D

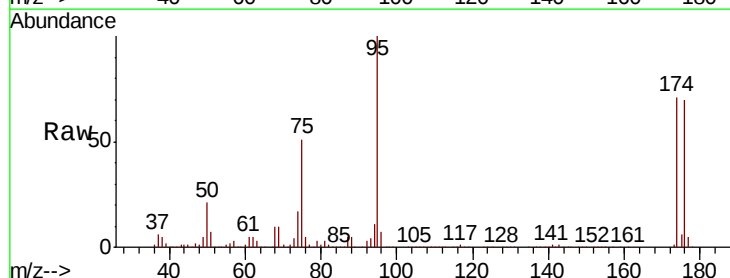
Acq: 01 Apr 2019 18:30

Tgt Ion: 75 Resp: 76193

Ion Ratio Lower Upper

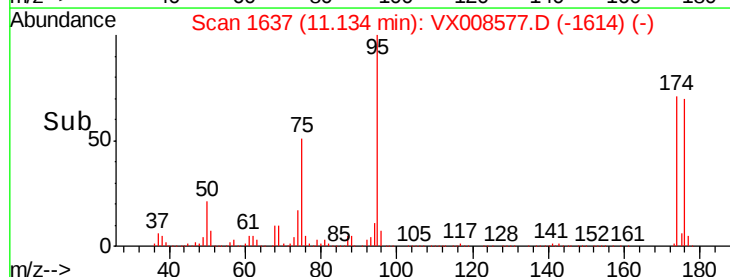
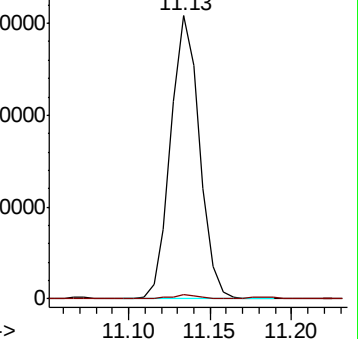
75 100

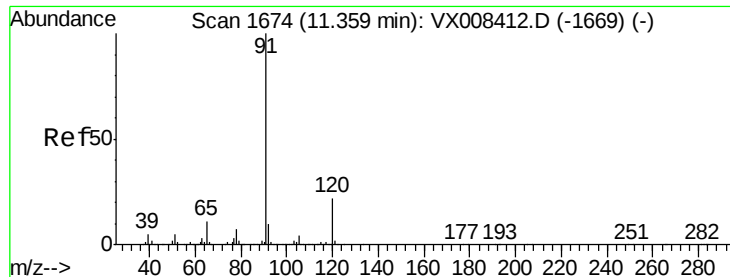
77 1.3 21.9 65.7#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#78

n-propylbenzene

Concen: 0.200 ug/l

RT: 11.36 min Scan# 1674

Delta R.T. -0.00 min

Lab File: VX008577.D

Acq: 01 Apr 2019 18:30

Instrument :

MSVOA_X

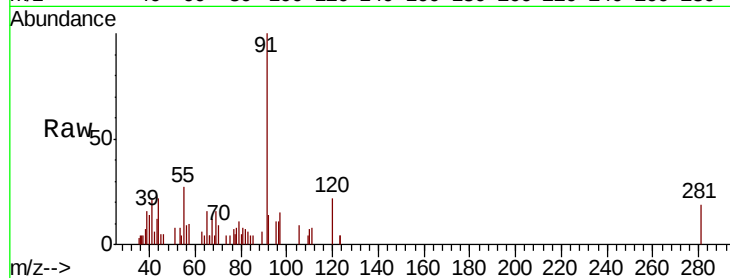
ClientSampleId :

Tot Ion: 91 Resp: 2337

Ion Ratio Lower Upper

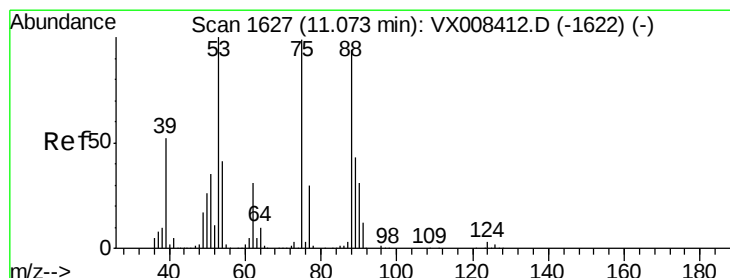
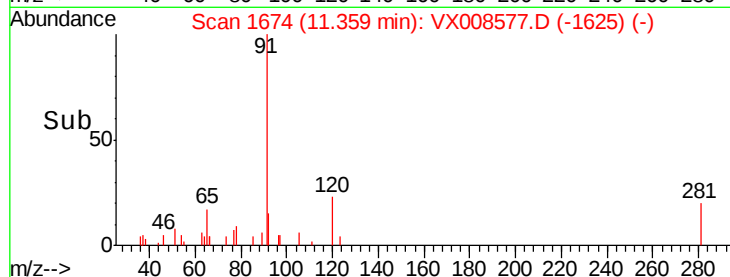
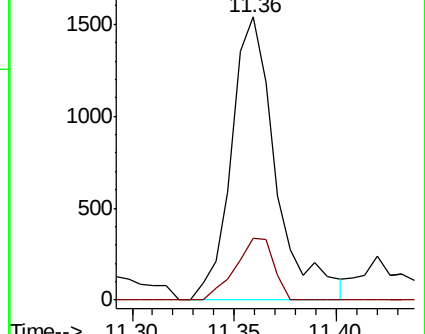
91 100

120 18.7 10.8 32.4



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 67.083 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX008577.D

Acq: 01 Apr 2019 18:30

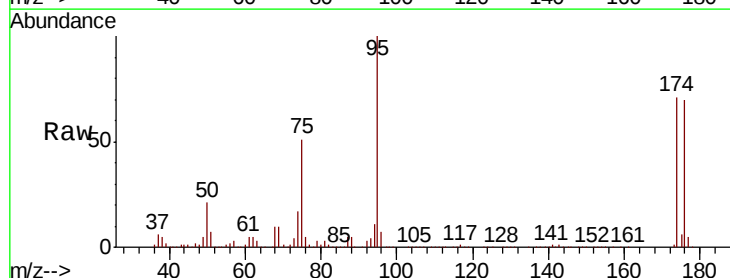
Tgt Ion: 75 Resp: 76193

Ion Ratio Lower Upper

75 100

53 0.1 82.1 123.1#

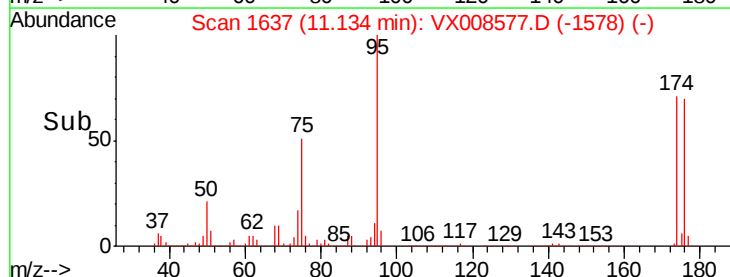
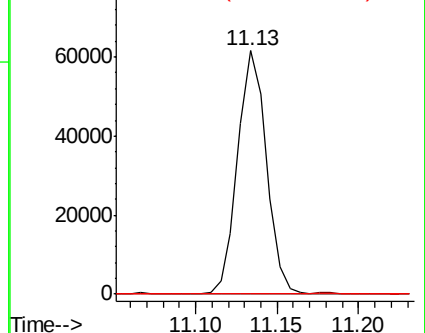
89 0.1 34.6 52.0#

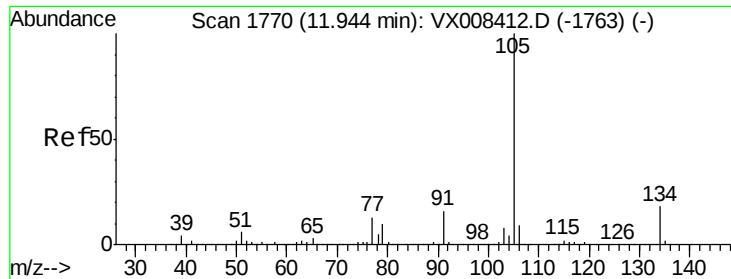


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0





#85

sec-Butylbenzene

Concen: 0.353 ug/l

RT: 11.94 min Scan# 1770

Delta R.T. -0.00 min

Lab File: VX008577.D

Acq: 01 Apr 2019 18:30

Instrument :

MSVOA_X

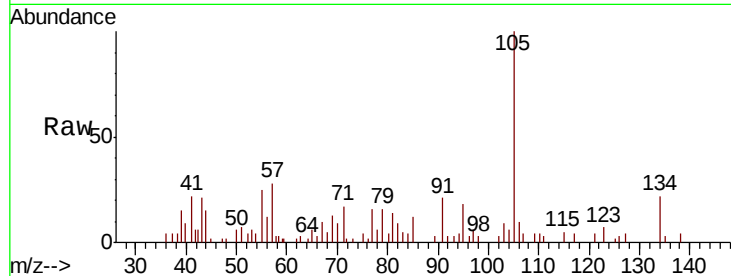
ClientSampleId :

Tot Ion:105 Resp: 3418

Ion Ratio Lower Upper

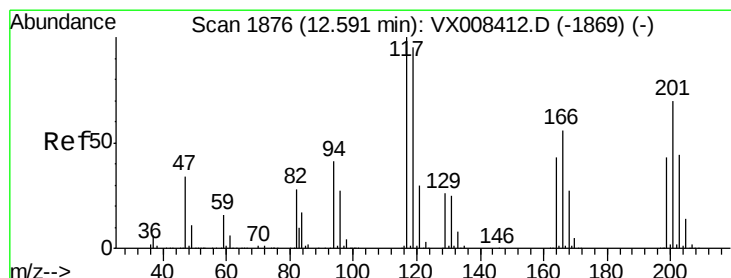
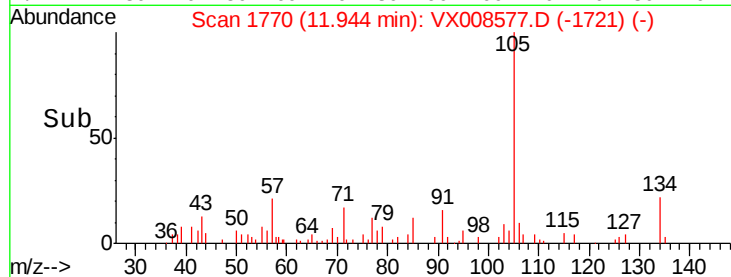
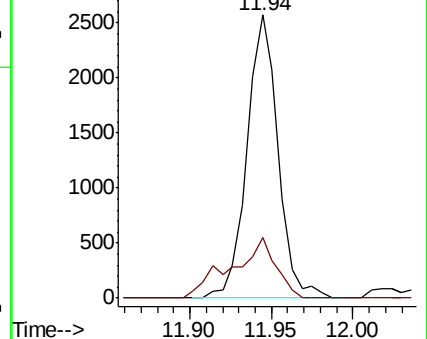
105 100

134 30.6 9.3 28.0#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#90

Hexachloroethane

Concen: 0.279 ug/l

RT: 12.66 min Scan# 1887

Delta R.T. 0.07 min

Lab File: VX008577.D

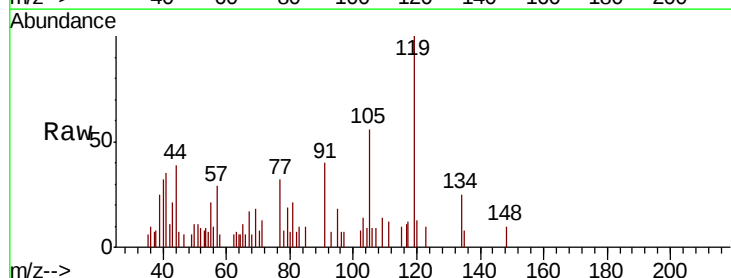
Acq: 01 Apr 2019 18:30

Tgt Ion:117 Resp: 397

Ion Ratio Lower Upper

117 100

201 0.0 39.4 118.1#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

