

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX112618\
 Data File : VX006171.D
 Acq On : 26 Nov 2018 13:25
 Operator : JC/MD
 Sample : J6051-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Nov 27 02:26:52 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X112018W.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 21 08:15:54 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	318170	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	472761	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	433436	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	209641	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	197883	53.67	ug/l	0.00
Spiked Amount			Recovery	=	107.34%	
35) Dibromofluoromethane	5.50	113	159379	52.52	ug/l	0.00
Spiked Amount			Recovery	=	105.04%	
50) Toluene-d8	8.71	98	575459	49.72	ug/l	0.00
Spiked Amount			Recovery	=	99.44%	
62) 4-Bromofluorobenzene	11.14	95	193875	44.64	ug/l	0.00
Spiked Amount			Recovery	=	89.28%	

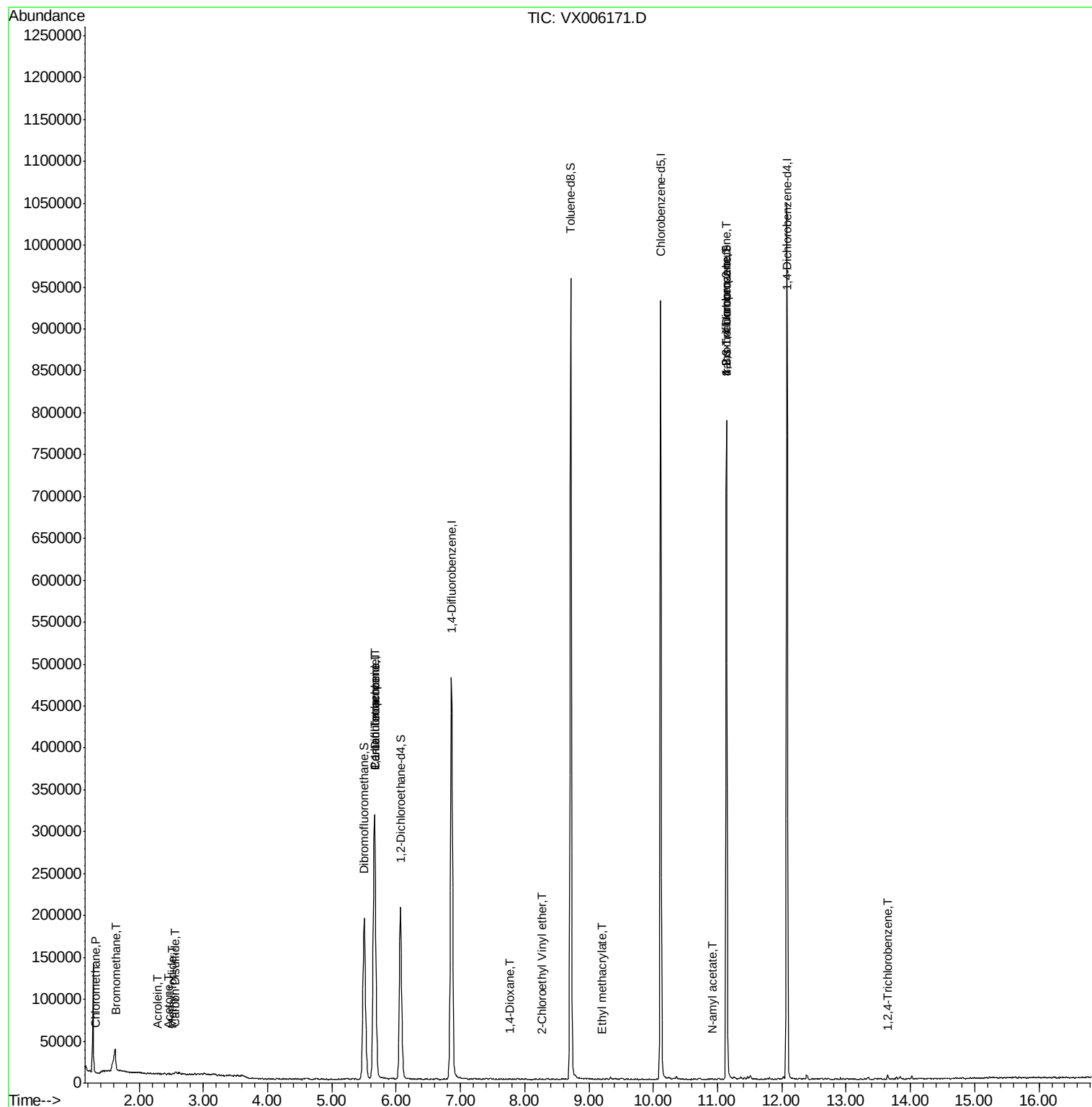
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	1187	0.397	ug/l	95
5) Bromomethane	1.64	94	2233	4.600	ug/l #	79
6) Chloroethane	1.61	64	2596	Below Cal	#	69
10) Methyl Iodide	2.51	142	1171	0.396	ug/l #	88
13) Acrolein	2.29	56	305	0.650	ug/l #	48
16) Acetone	2.45	43	1290	0.789	ug/l #	62
17) Carbon Disulfide	2.57	76	3631	0.585	ug/l	100
20) Methylene Chloride	2.86	84	757	Below Cal	#	81
36) 1,1-Dichloropropene	5.66	75	23120	5.376	ug/l #	50
38) Carbon Tetrachloride	5.66	117	28726	7.106	ug/l #	16
49) 1,4-Dioxane	7.77	88	61	0.634	ug/l #	1
56) Ethyl methacrylate	9.20	69	180	2.897	ug/l #	1
58) 2-Chloroethyl Vinyl ether	8.28	63	138	6.767	ug/l	94
74) N-amyl acetate	10.92	43	458	2.260	ug/l #	69
76) 1,2,3-Trichloropropane	11.14	75	95817	22.200	ug/l #	38
81) trans-1,4-Dichloro-2-buten	11.14	75	95817	75.086	ug/l #	7
93) 1,2,4-Trichlorobenzene	13.65	180	1018	0.216	ug/l	95

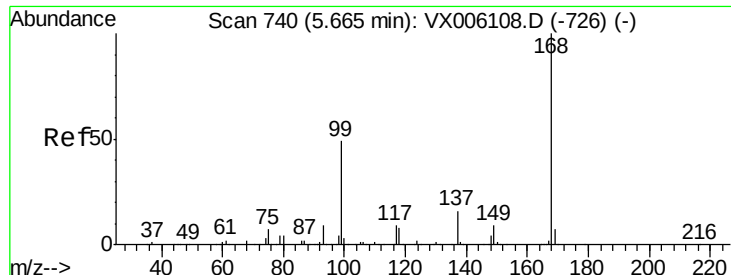
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX006171.D

Acq: 26 Nov 2018 13:25

Instrument :

MSVOA_X

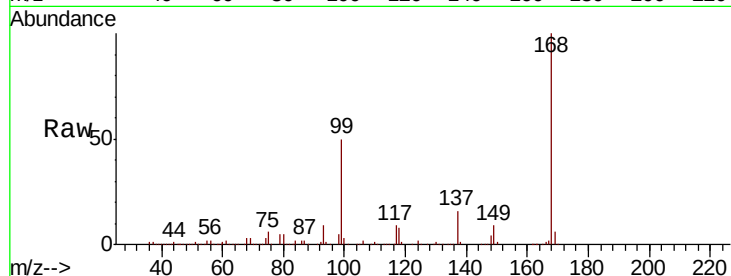
ClientSampled :

Tot Ion:168 Resp: 318170

Ion Ratio Lower Upper

168 100

99 50.4 39.2 58.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

120000

100000

80000

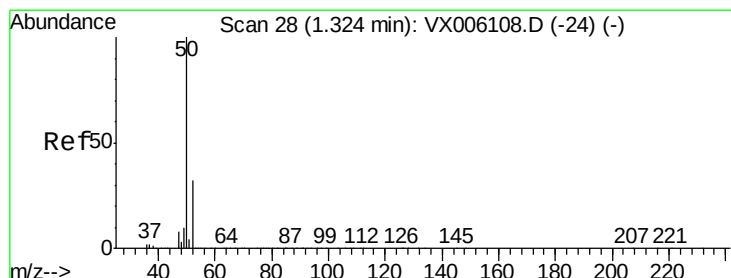
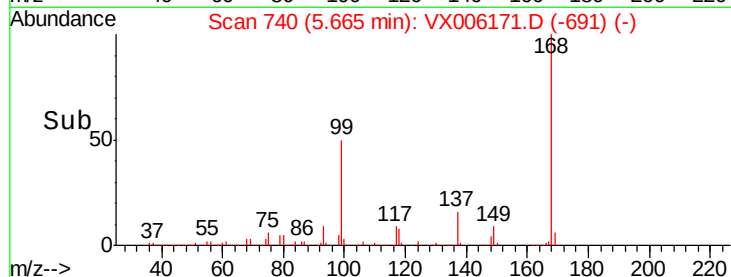
60000

40000

20000

0

Time-->



#3

Chloromethane

Concen: 0.397 ug/l

RT: 1.32 min Scan# 28

Delta R.T. 0.00 min

Lab File: VX006171.D

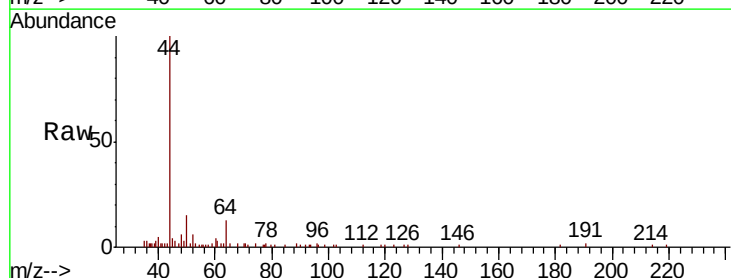
Acq: 26 Nov 2018 13:25

Tgt Ion: 50 Resp: 1187

Ion Ratio Lower Upper

50 100

52 35.0 25.6 38.4



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

800

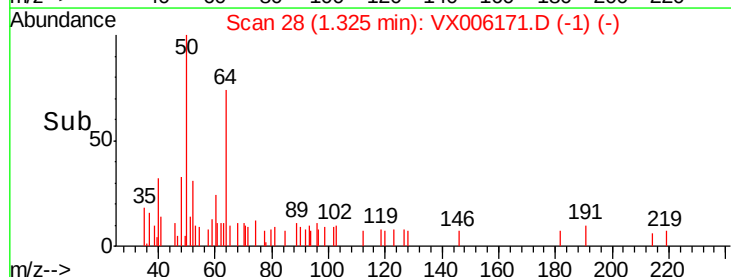
600

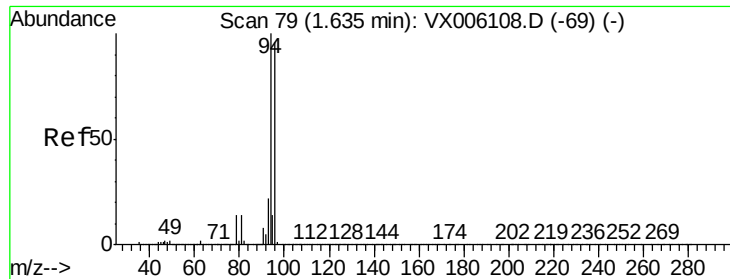
400

200

0

Time-->





#5

Bromomethane

Concen: 4.600 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX006171.D

Acq: 26 Nov 2018 13:25

Instrument :

MSVOA_X

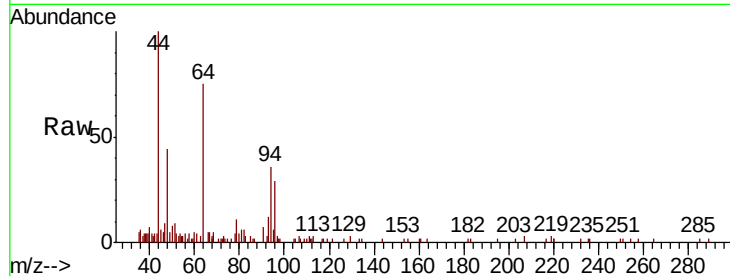
ClientSampleId :

Tot Ion: 94 Resp: 2233

Ion Ratio Lower Upper

94 100

96 75.8 76.7 115.1#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1200

1000

800

600

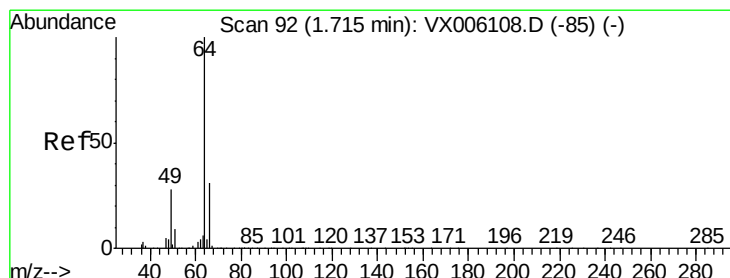
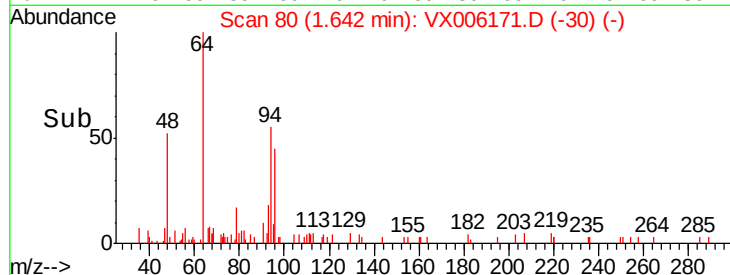
400

200

0

1.55 1.60 1.65 1.70

Time-->



#6

Chloroethane

Concen: Below Cal

RT: 1.61 min Scan# 75

Delta R.T. -0.10 min

Lab File: VX006171.D

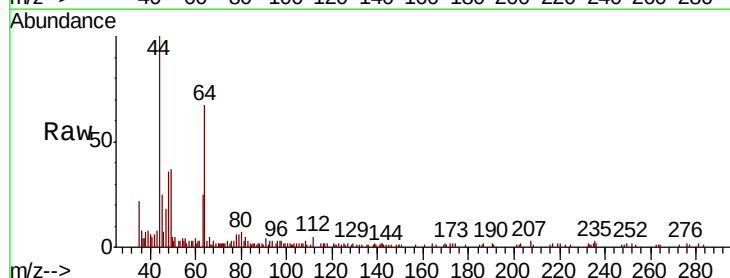
Acq: 26 Nov 2018 13:25

Tgt Ion: 64 Resp: 2596

Ion Ratio Lower Upper

64 100

66 14.0 25.1 37.7#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

4000

3000

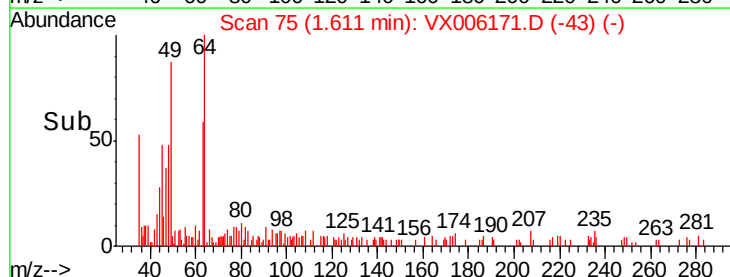
2000

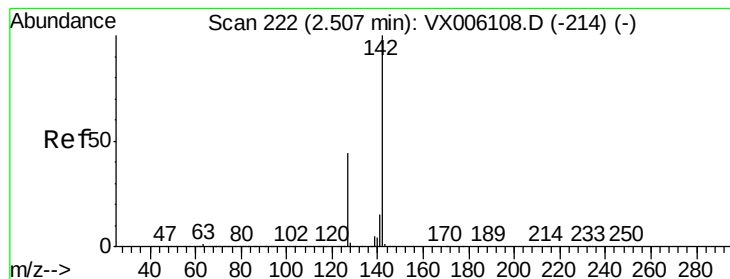
1000

0

1.60 1.65

Time-->





#10

Methyl Iodide

Concen: 0.396 ug/l

RT: 2.51 min Scan# 223

Delta R.T. 0.01 min

Lab File: VX006171.D

Acq: 26 Nov 2018 13:25

Instrument :

MSVOA_X

ClientSampled :

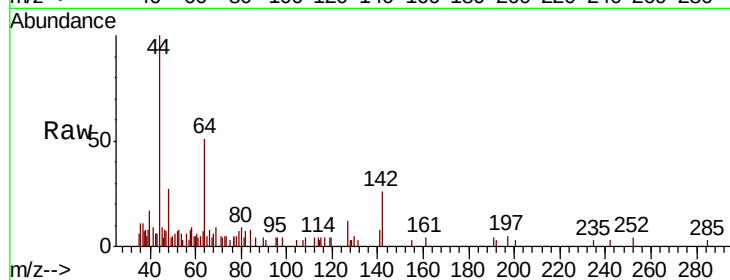
Tot Ion:142 Resp: 1171

Ion Ratio Lower Upper

142 100

127 36.4 36.0 54.0

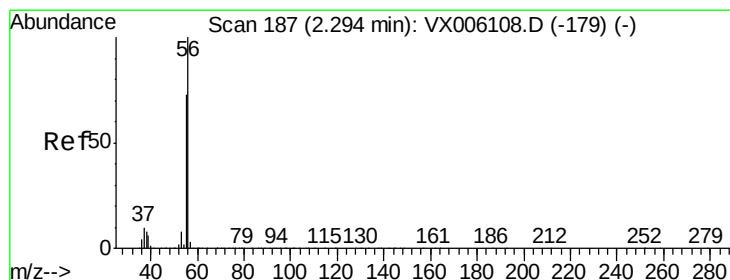
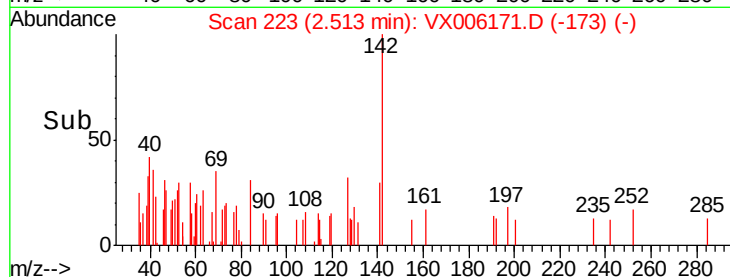
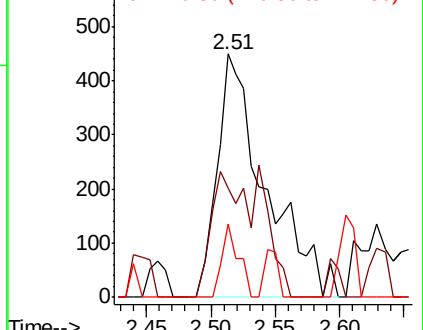
141 10.6 11.7 17.5#



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: 0.650 ug/l

RT: 2.29 min Scan# 187

Delta R.T. 0.00 min

Lab File: VX006171.D

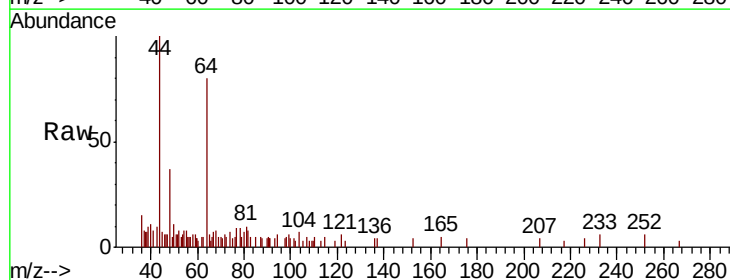
Acq: 26 Nov 2018 13:25

Tgt Ion: 56 Resp: 305

Ion Ratio Lower Upper

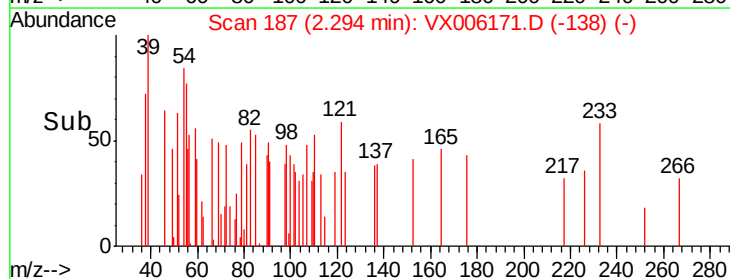
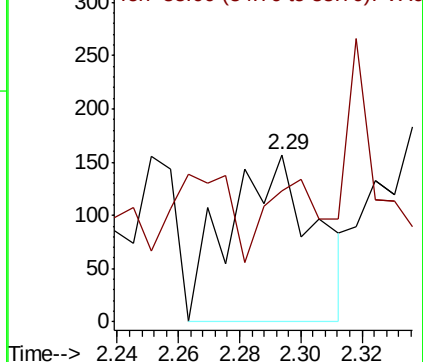
56 100

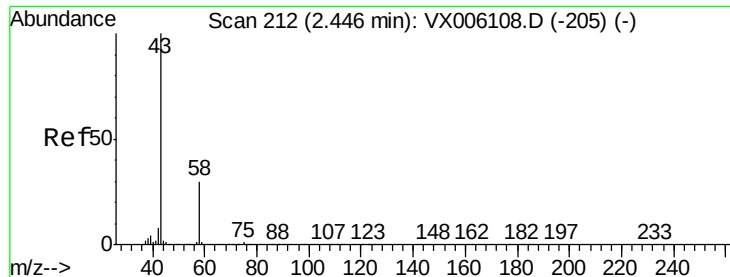
55 28.5 57.8 86.6#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0





#16

Acetone

Concen: 0.789 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX006171.D

Acq: 26 Nov 2018 13:25

Instrument :

MSVOA_X

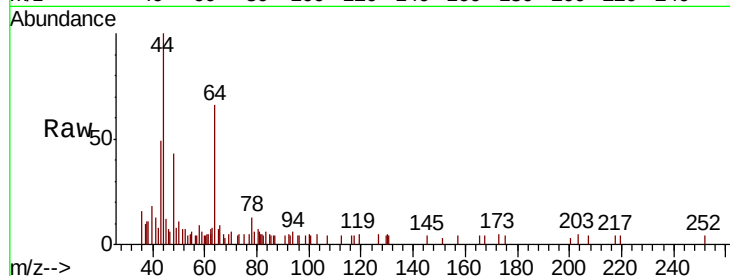
ClientSampleId :

Tot Ion: 43 Resp: 1290

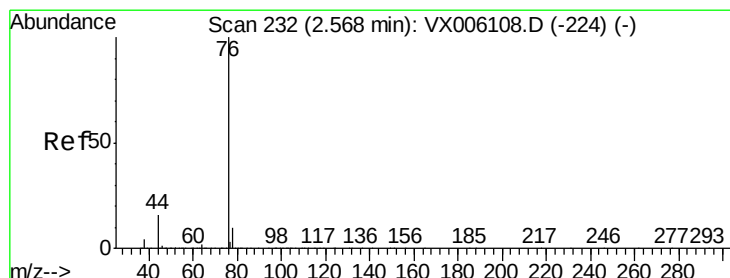
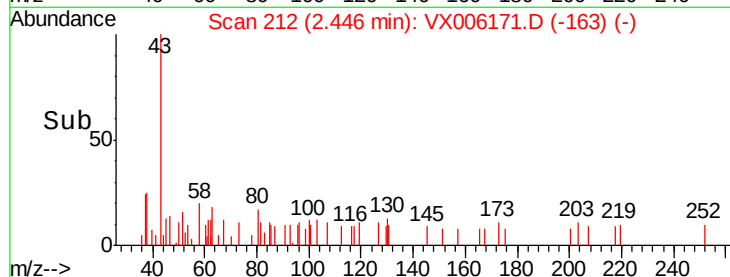
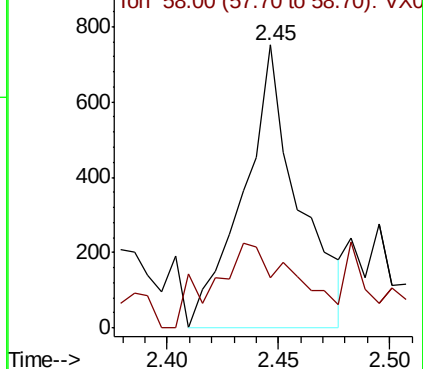
Ion Ratio Lower Upper

43 100

58 9.3 23.8 35.8#



Abundance Ion 43.00 (42.70 to 43.70): VX0



#17

Carbon Disulfide

Concen: 0.585 ug/l

RT: 2.57 min Scan# 232

Delta R.T. 0.00 min

Lab File: VX006171.D

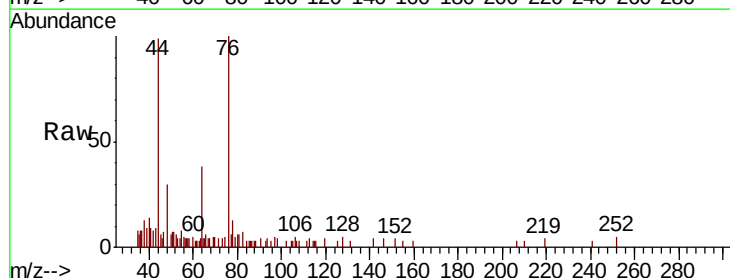
Acq: 26 Nov 2018 13:25

Tgt Ion: 76 Resp: 3631

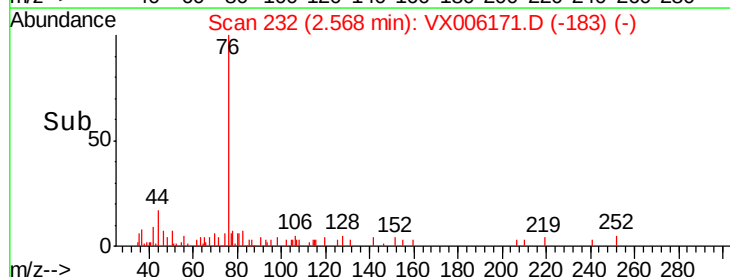
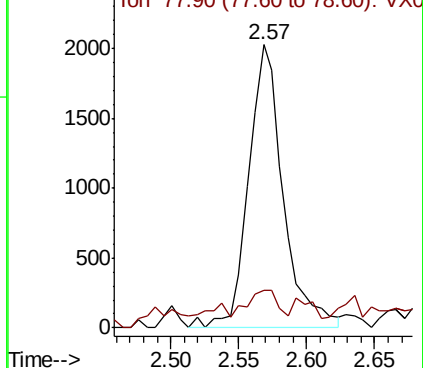
Ion Ratio Lower Upper

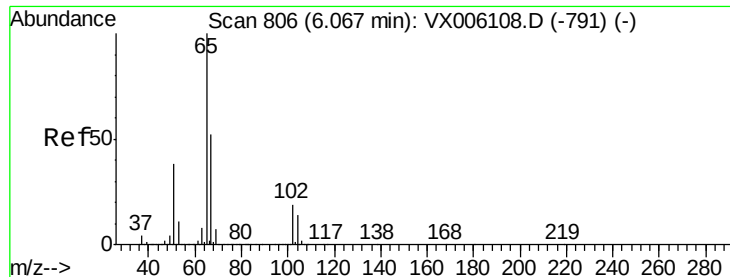
76 100

78 9.4 7.7 11.5



Abundance Ion 75.90 (75.60 to 76.60): VX0

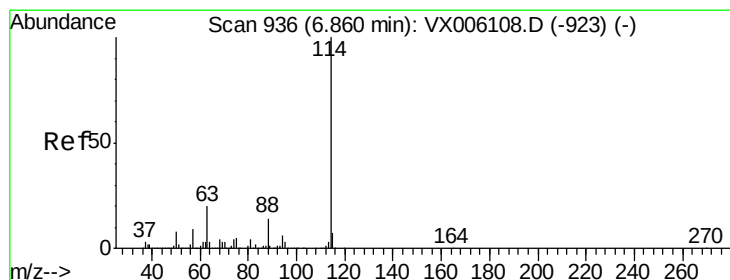
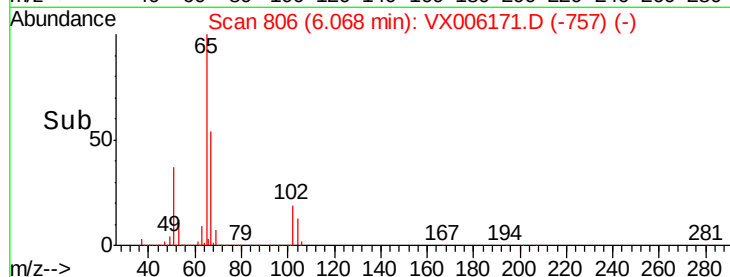
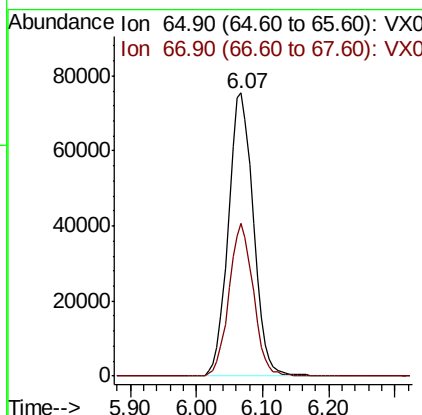
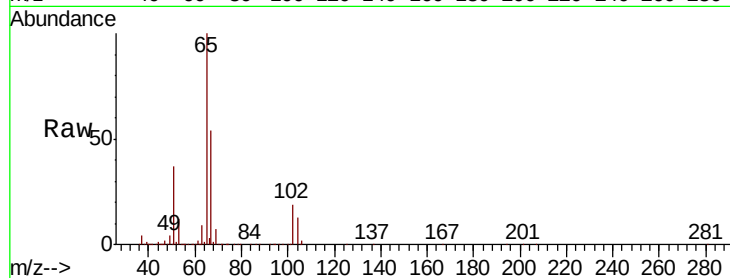




#33
 1,2-Dichloroethane-d4
 Concen: 53.674 ug/l
 RT: 6.07 min Scan# 806
 Delta R.T. 0.00 min
 Lab File: VX006171.D
 Acq: 26 Nov 2018 13:25

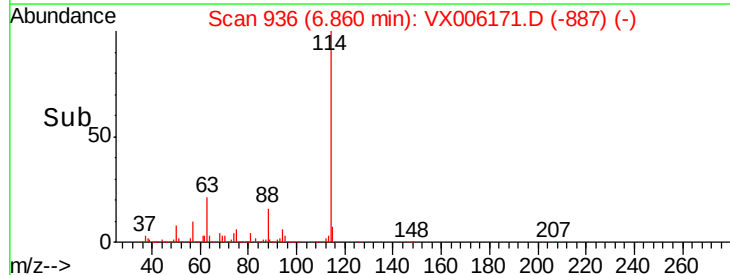
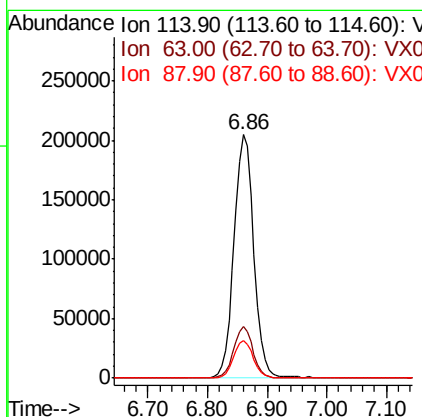
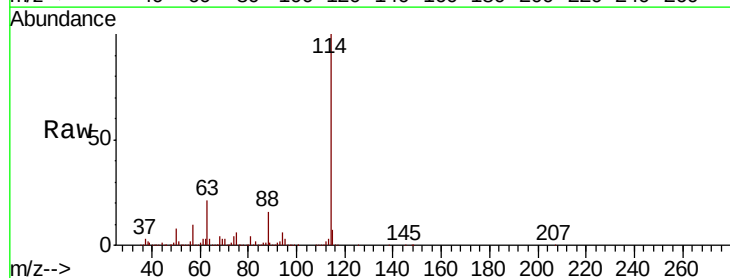
Instrument :
 MSVOA_X
 ClientSampleId :

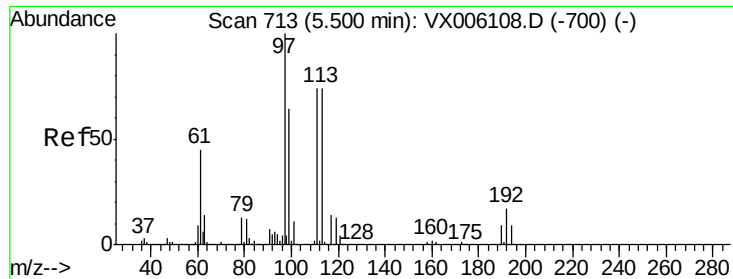
Tot Ion: 65 Resp: 197883
 Ion Ratio Lower Upper
 65 100
 67 52.4 0.0 105.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX006171.D
 Acq: 26 Nov 2018 13:25

Tgt Ion: 114 Resp: 472761
 Ion Ratio Lower Upper
 114 100
 63 21.1 0.0 39.2
 88 15.5 0.0 28.6





#35

Dibromofluoromethane

Concen: 52.518 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.00 min

Lab File: VX006171.D

Acq: 26 Nov 2018 13:25

Instrument :

MSVOA_X

ClientSampleId :

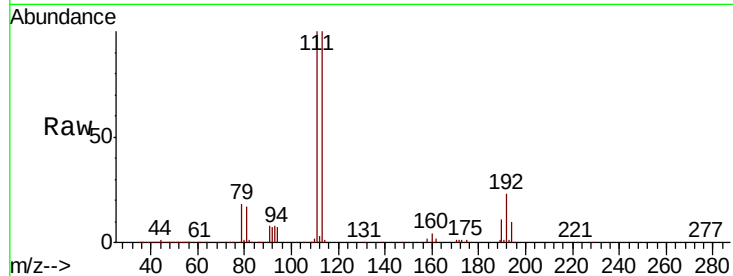
Tot Ion:113 Resp: 159379

Ion Ratio Lower Upper

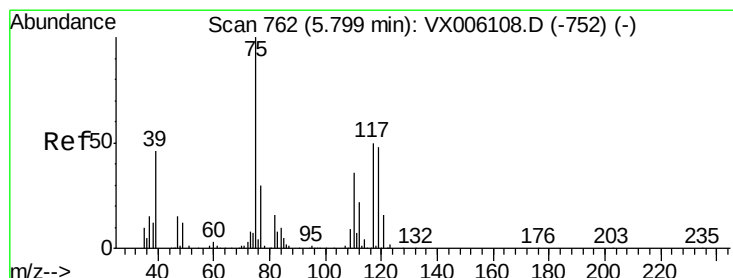
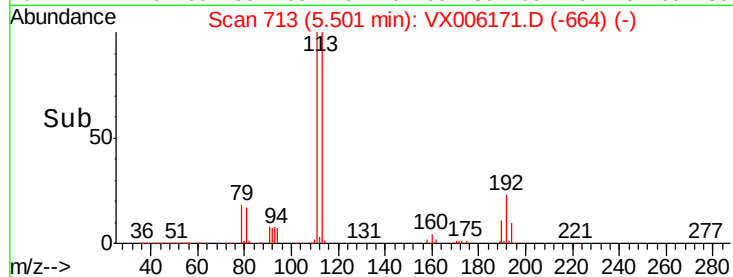
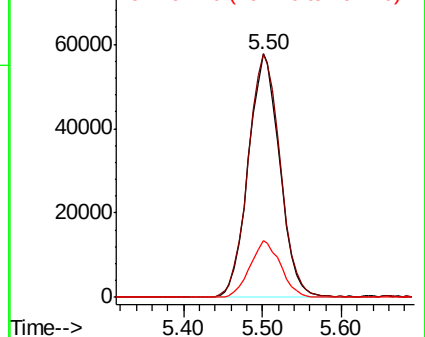
113 100

111 102.4 81.5 122.3

192 23.0 18.6 28.0



Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 5.376 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX006171.D

Acq: 26 Nov 2018 13:25

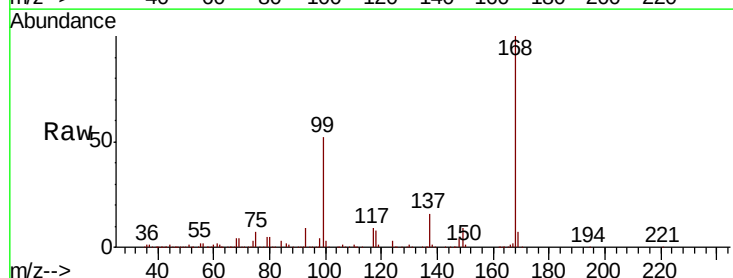
Tgt Ion: 75 Resp: 23120

Ion Ratio Lower Upper

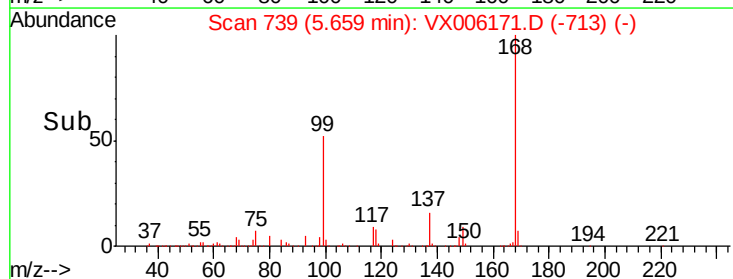
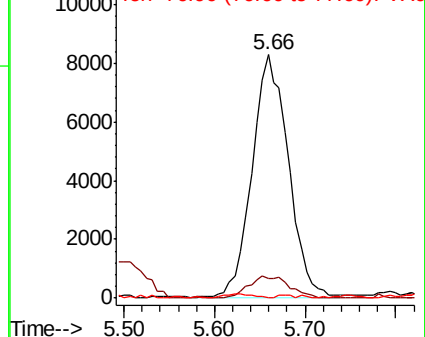
75 100

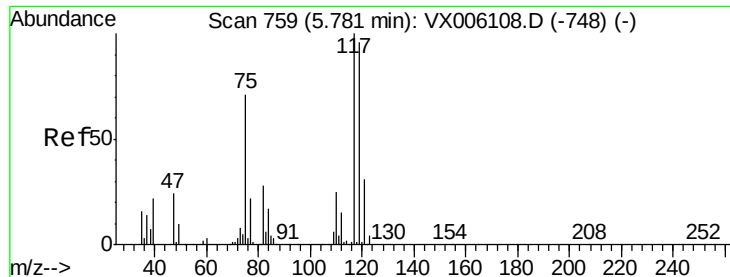
110 9.8 17.8 53.3#

77 0.0 24.5 36.7#



Abundance Ion 74.90 (74.60 to 75.60): VX0
Ion 109.90 (109.60 to 110.60): V
Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 7.106 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX006171.D

Acq: 26 Nov 2018 13:25

Instrument :

MSVOA_X

ClientSampled :

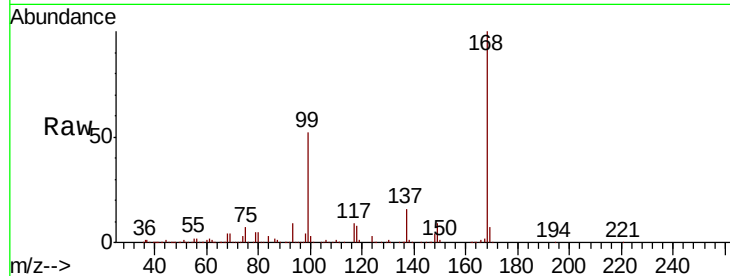
Tot Ion:117 Resp: 28726

Ion Ratio Lower Upper

117 100

119 5.1 76.3 114.5#

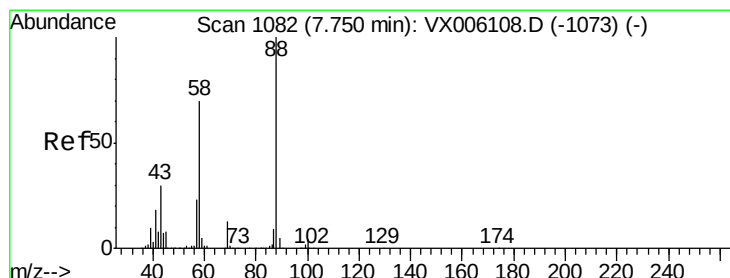
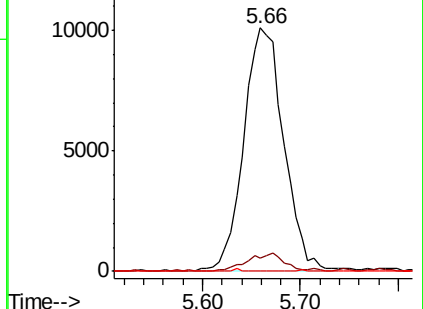
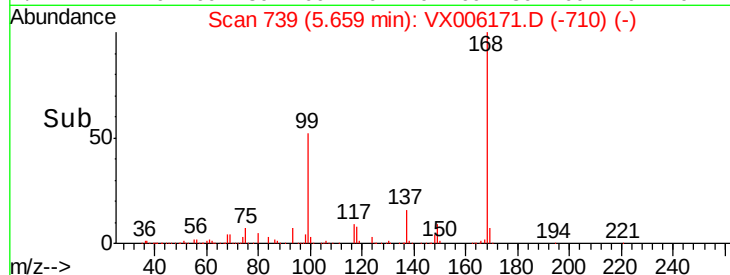
121 0.0 24.7 37.1#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#49

1,4-Dioxane

Concen: 0.634 ug/l

RT: 7.77 min Scan# 1085

Delta R.T. 0.02 min

Lab File: VX006171.D

Acq: 26 Nov 2018 13:25

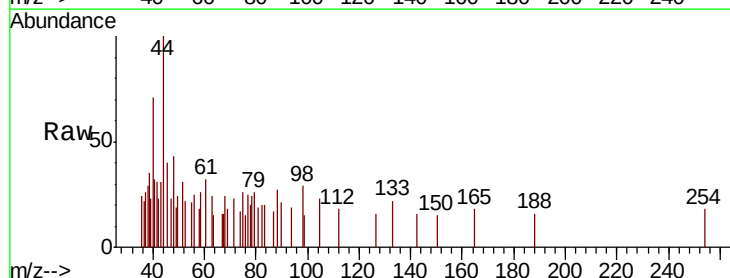
Tgt Ion: 88 Resp: 61

Ion Ratio Lower Upper

88 100

43 0.0 26.7 40.1#

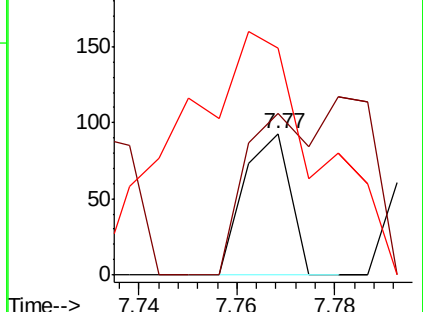
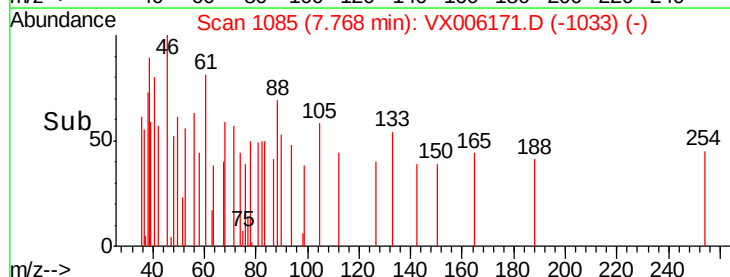
58 519.7 58.5 87.7#

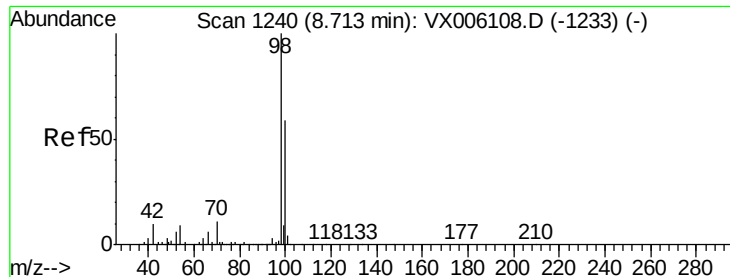


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 49.716 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX006171.D

Acq: 26 Nov 2018 13:25

Instrument :

MSVOA_X

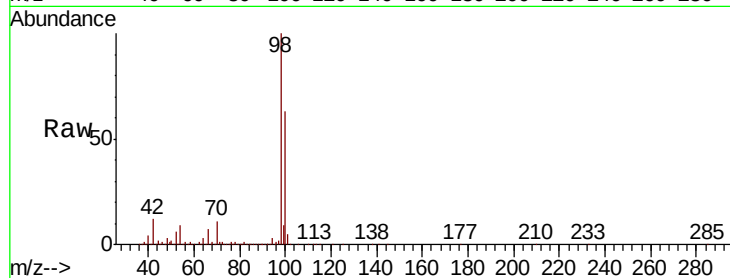
ClientSampleId :

Tot Ion: 98 Resp: 575459

Ion Ratio Lower Upper

98 100

100 62.4 51.0 76.4



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

8.71

400000

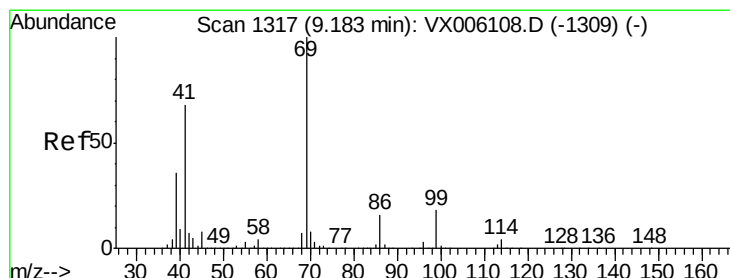
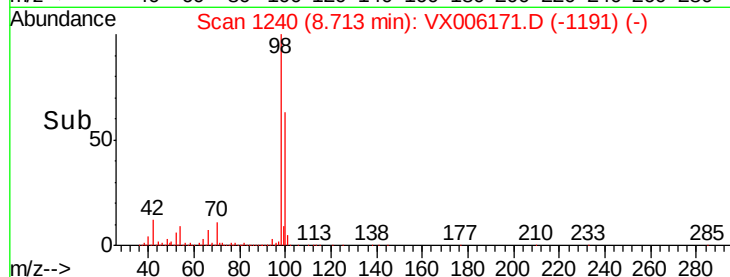
300000

200000

100000

0

Time-->



#56

Ethyl methacrylate

Concen: 2.897 ug/l

RT: 9.20 min Scan# 1320

Delta R.T. 0.02 min

Lab File: VX006171.D

Acq: 26 Nov 2018 13:25

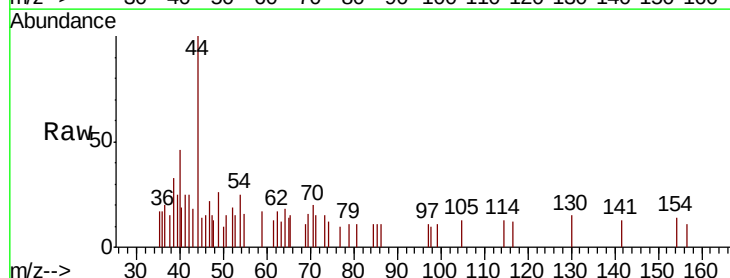
Tgt Ion: 69 Resp: 180

Ion Ratio Lower Upper

69 100

41 0.0 56.2 84.4#

39 156.7 29.4 44.0#



Abundance Ion 69.00 (68.70 to 69.70): VX0

Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

400

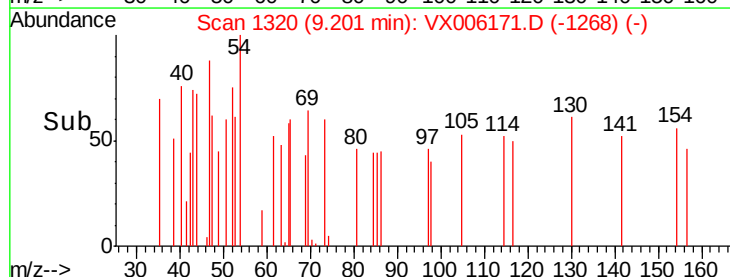
300

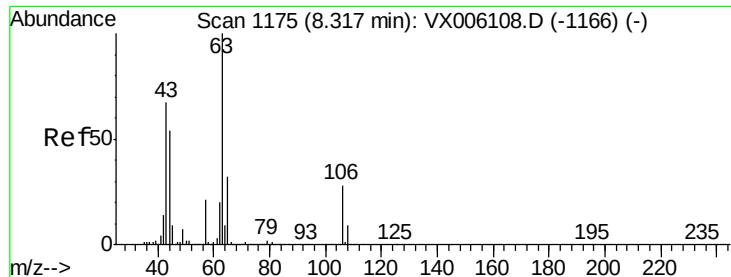
200

100

0

Time-->

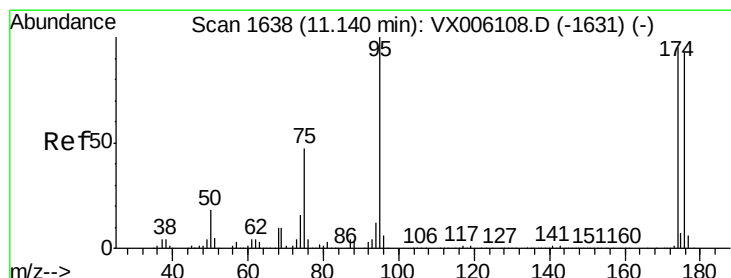
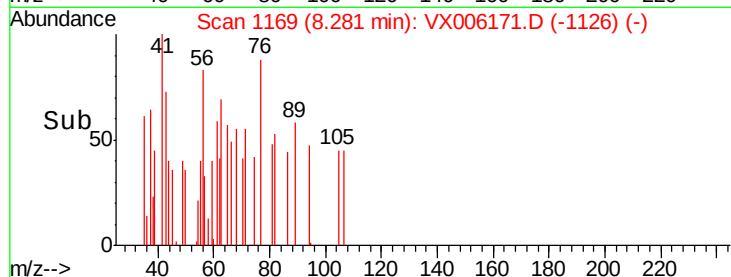
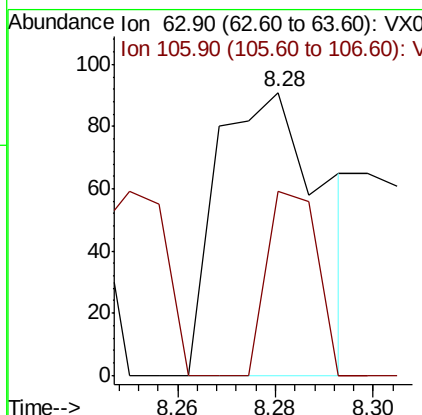
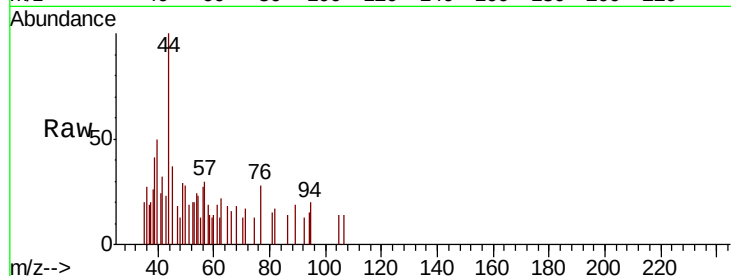




#58
 2-Chloroethyl Vinyl ether
 Concen: 6.767 ug/l
 RT: 8.28 min Scan# 1169
 Delta R.T. -0.04 min
 Lab File: VX006171.D
 Acq: 26 Nov 2018 13:25

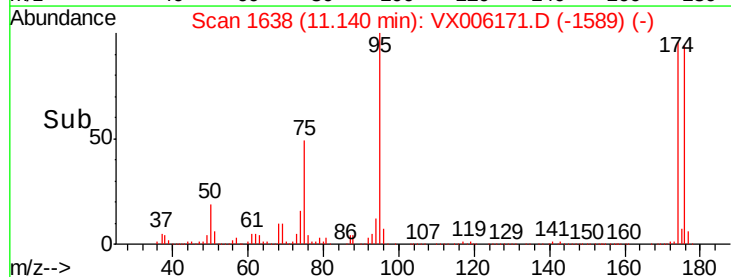
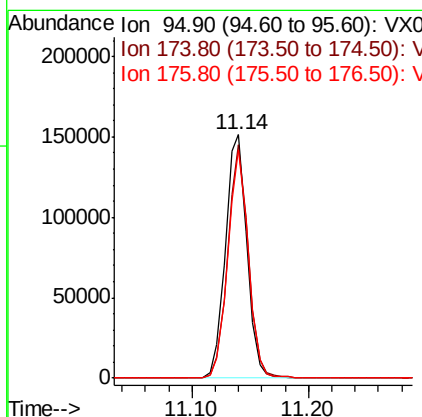
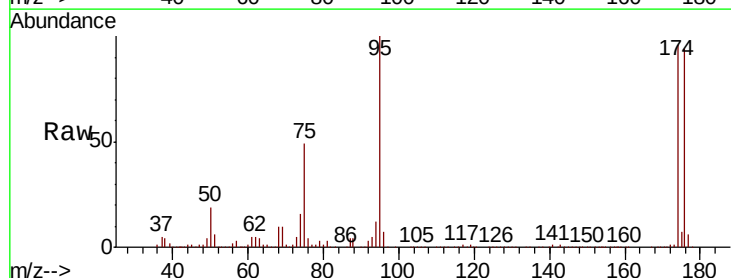
Instrument :
 MSVOA_X
 ClientSampled :

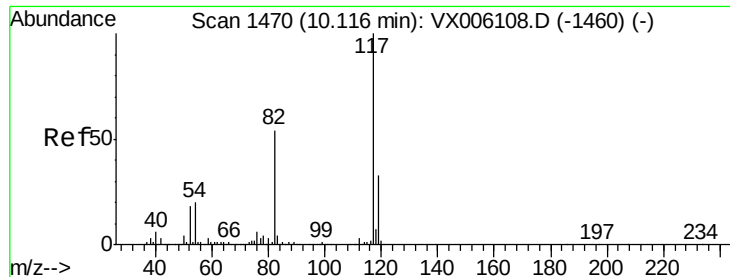
Tot Ion: 63 Resp: 138
 Ion Ratio Lower Upper
 63 100
 106 30.4 21.7 32.5



#62
 4-Bromofluorobenzene
 Concen: 44.641 ug/l
 RT: 11.14 min Scan# 1638
 Delta R.T. 0.00 min
 Lab File: VX006171.D
 Acq: 26 Nov 2018 13:25

Tgt Ion: 95 Resp: 193875
 Ion Ratio Lower Upper
 95 100
 174 91.9 0.0 184.4
 176 89.7 0.0 179.0

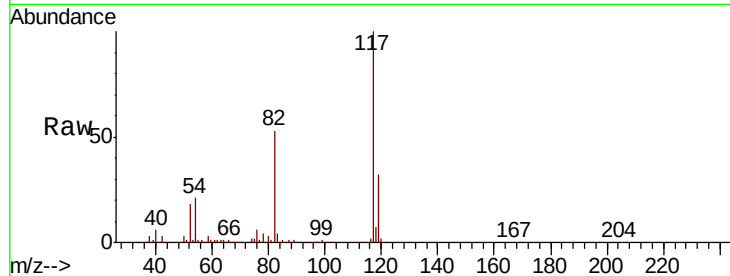




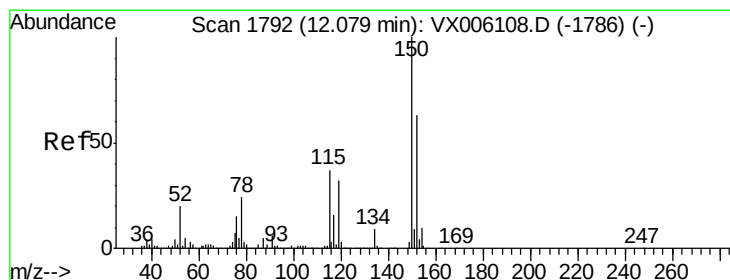
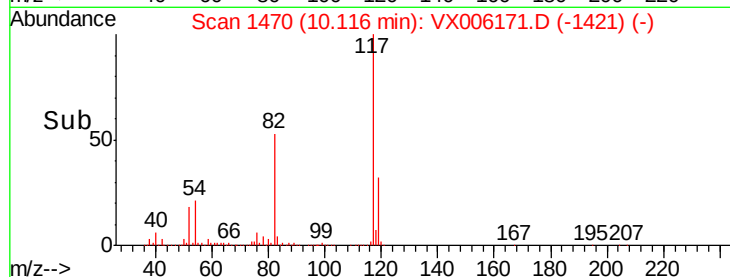
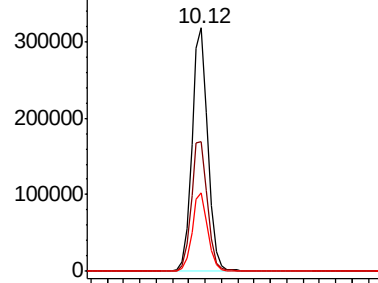
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.00 min
Lab File: VX006171.D
Acq: 26 Nov 2018 13:25

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
117	100		
82	53.2	43.0	64.4
119	32.1	26.1	39.1

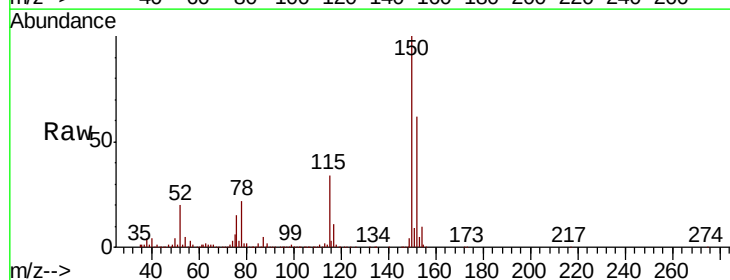


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

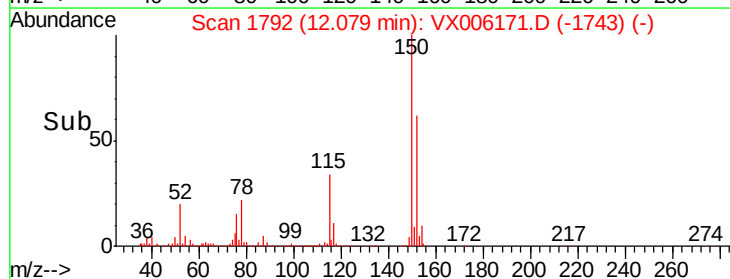
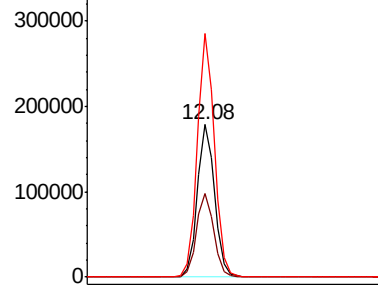


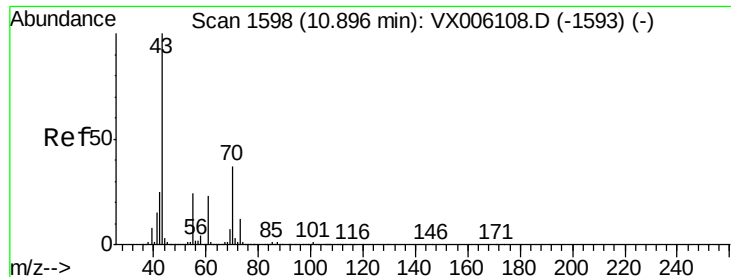
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX006171.D
Acq: 26 Nov 2018 13:25

Tgt Ion	Ratio	Lower	Upper
152	100		
115	55.0	39.0	116.9
150	158.3	0.0	346.6



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-amvl acetate

Concen: 2.260 ug/l

RT: 10.92 min Scan# 1602

Delta R.T. 0.03 min

Lab File: VX006171.D

Acq: 26 Nov 2018 13:25

Instrument :

MSVOA_X

ClientSampled :

Tot Ion: 43 Resp: 458

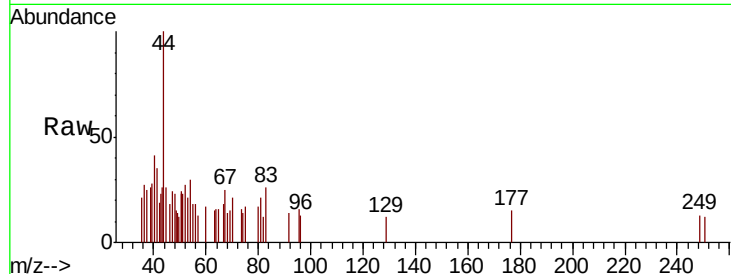
Ion Ratio Lower Upper

43 100

70 22.3 31.8 47.6#

55 14.6 19.5 29.3#

61 0.0 18.6 27.8#

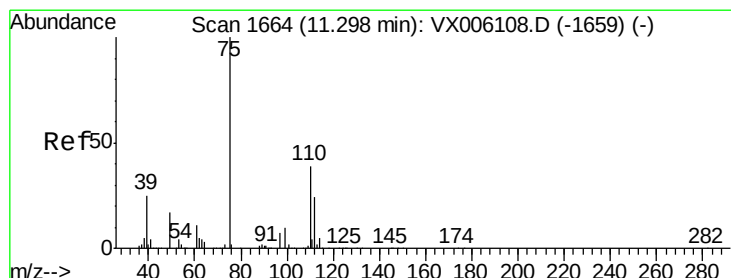
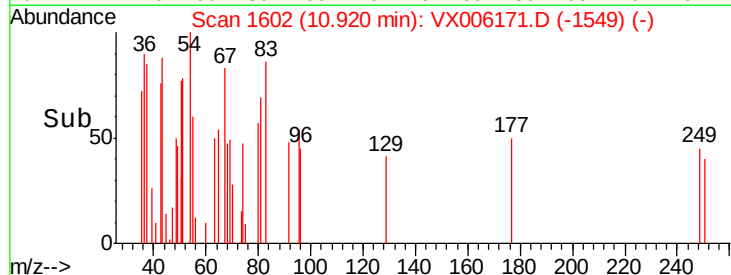
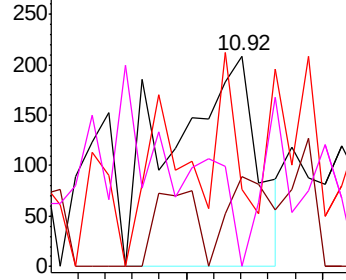


Abundance Ion 43.00 (42.70 to 43.70): VX0

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: 22.200 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX006171.D

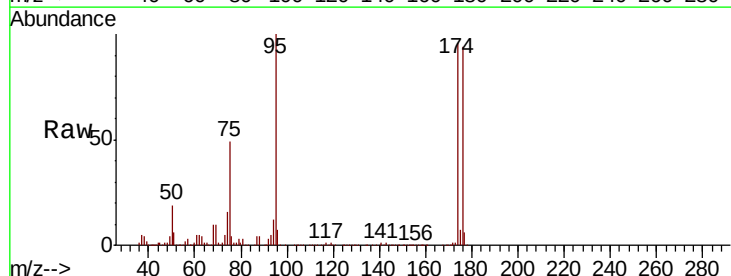
Acq: 26 Nov 2018 13:25

Tgt Ion: 75 Resp: 95817

Ion Ratio Lower Upper

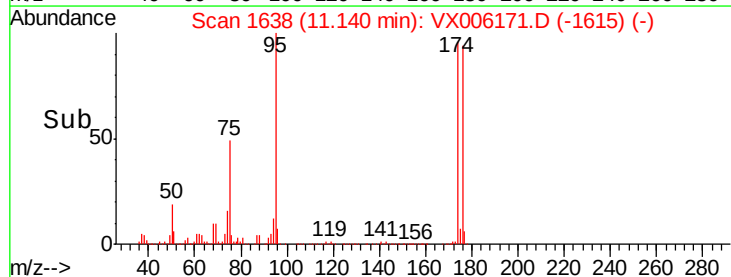
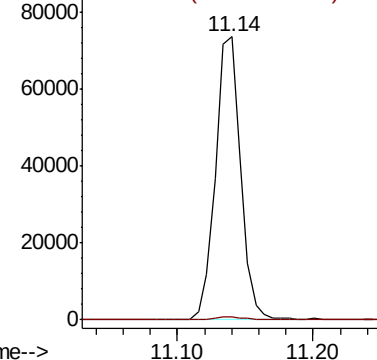
75 100

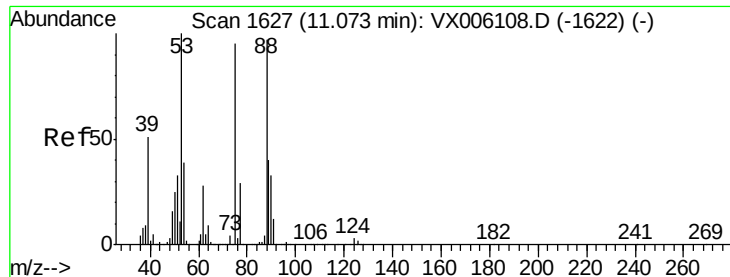
77 1.4 19.6 58.7#



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: 75.086 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.07 min

Lab File: VX006171.D

Acq: 26 Nov 2018 13:25

Instrument :

MSVOA_X

ClientSampleId :

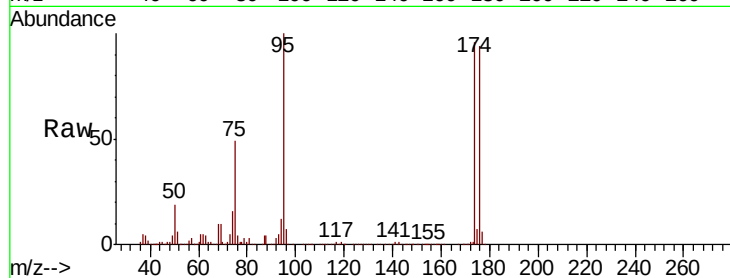
Tot Ion: 75 Resp: 95817

Ion Ratio Lower Upper

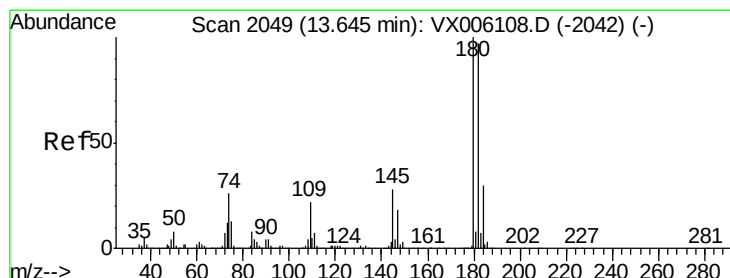
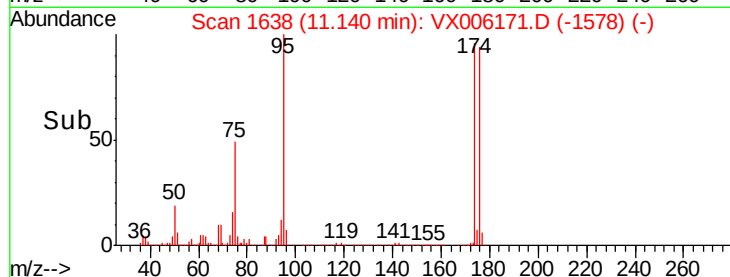
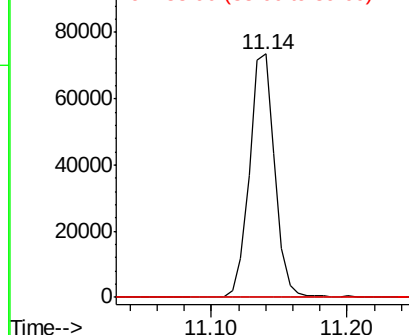
75 100

53 0.4 85.3 127.9#

89 0.0 37.2 55.8#



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



#93

1,2,4-Trichlorobenzene

Concen: 0.216 ug/l

RT: 13.65 min Scan# 2049

Delta R.T. 0.00 min

Lab File: VX006171.D

Acq: 26 Nov 2018 13:25

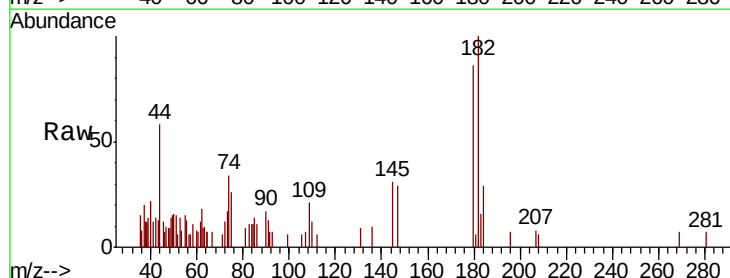
Tgt Ion:180 Resp: 1018

Ion Ratio Lower Upper

180 100

182 101.5 48.2 144.6

145 31.5 14.1 42.2



Abundance Ion 179.80 (179.50 to 180.50): V
Ion 181.80 (181.50 to 182.50): V
Ion 144.80 (144.50 to 145.50): V

