

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX112618\
 Data File : VX006172.D
 Acq On : 26 Nov 2018 13:51
 Operator : JC/MD
 Sample : J6032-07
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Nov 27 02:27:06 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	330443	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	492643	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	451129	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	219236	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	206780	54.00	ug/l	0.00
Spiked Amount			Recovery	=	108.00%	
35) Dibromofluoromethane	5.50	113	166277	52.58	ug/l	0.00
Spiked Amount			Recovery	=	105.16%	
50) Toluene-d8	8.71	98	593955	49.24	ug/l	0.00
Spiked Amount			Recovery	=	98.48%	
62) 4-Bromofluorobenzene	11.14	95	199257	44.03	ug/l	0.00
Spiked Amount			Recovery	=	88.06%	

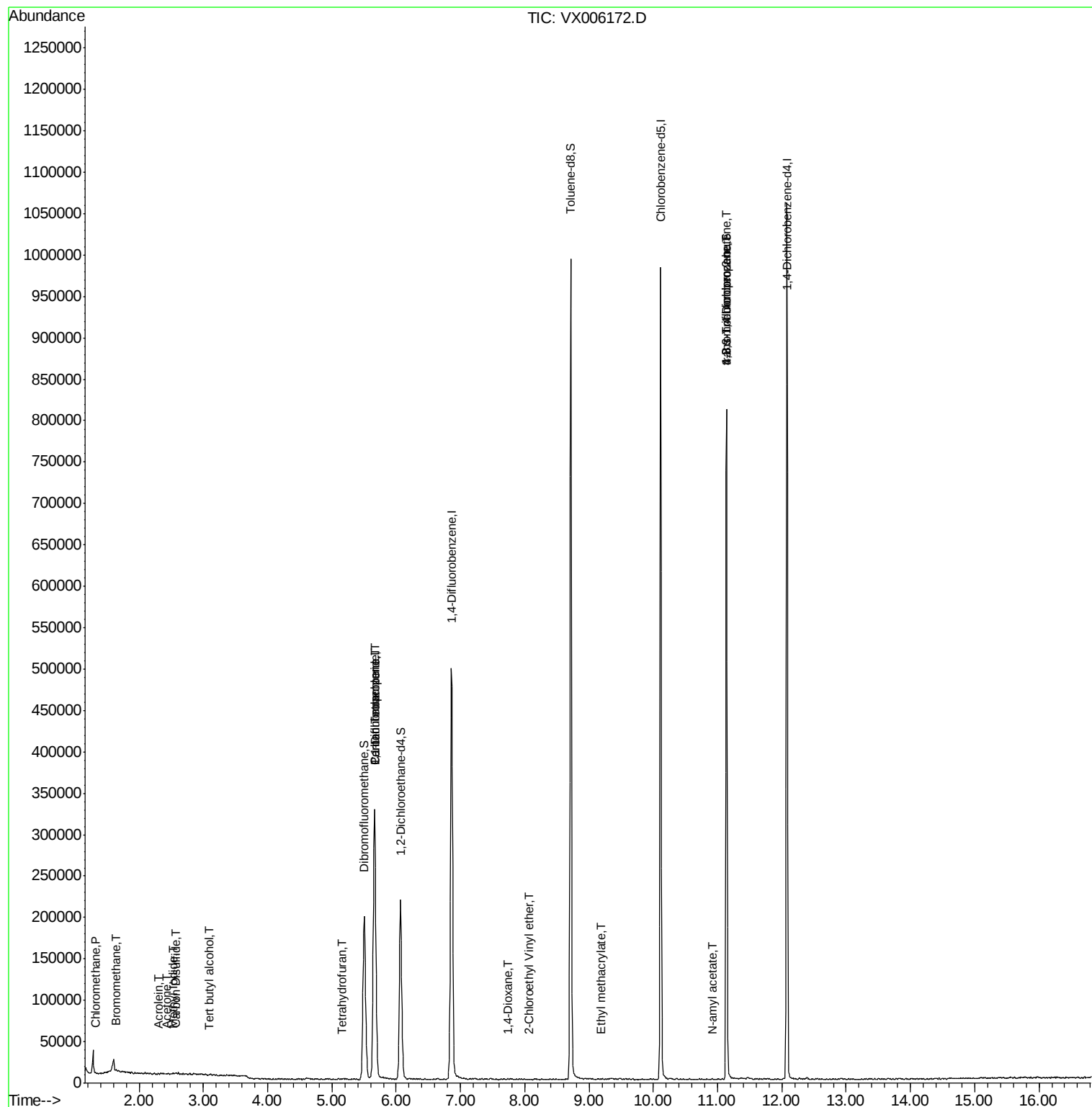
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	813	0.262	ug/l #	61
5) Bromomethane	1.65	94	645	3.961	ug/l	96
6) Chloroethane	1.80	64	642	Below Cal	#	43
10) Methyl Iodide	2.53	142	658	0.214	ug/l	99
11) Tert butyl alcohol	3.09	59	365	0.448	ug/l #	53
13) Acrolein	2.29	56	155	0.318	ug/l #	54
16) Acetone	2.44	43	1027	0.604	ug/l	96
17) Carbon Disulfide	2.57	76	2637	0.409	ug/l #	93
20) Methylene Chloride	2.86	84	556	Below Cal	#	32
29) Tetrahydrofuran	5.16	42	841	0.427	ug/l #	41
36) 1,1-Dichloropropene	5.67	75	24372	5.438	ug/l #	50
38) Carbon Tetrachloride	5.67	117	30135	7.154	ug/l #	16
49) 1,4-Dioxane	7.73	88	50	0.499	ug/l #	1
56) Ethyl methacrylate	9.18	69	50	2.874	ug/l #	1
58) 2-Chloroethyl Vinyl ether	8.06	63	157	6.771	ug/l	98
74) N-amyl acetate	10.91	43	163	2.215	ug/l #	7
76) 1,2,3-Trichloropropane	11.14	75	100822	22.337	ug/l #	38
81) trans-1,4-Dichloro-2-buten	11.14	75	100822	75.550	ug/l #	7

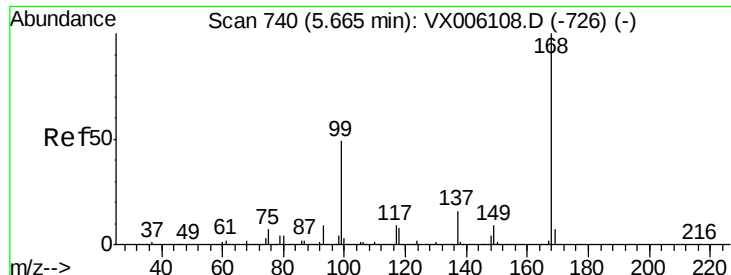
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX006172.D

Acq: 26 Nov 2018 13:51

Instrument :

MSVOA_X

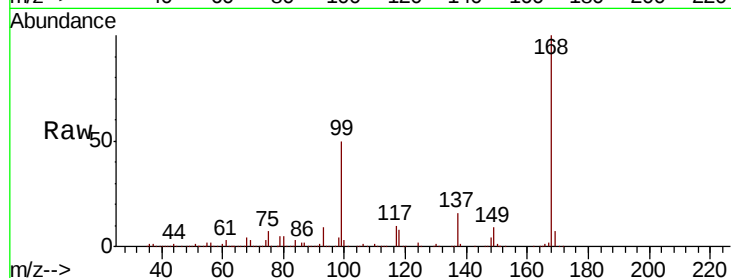
ClientSampleId :

Tot Ion:168 Resp: 330443

Ion Ratio Lower Upper

168 100

99 50.0 39.2 58.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

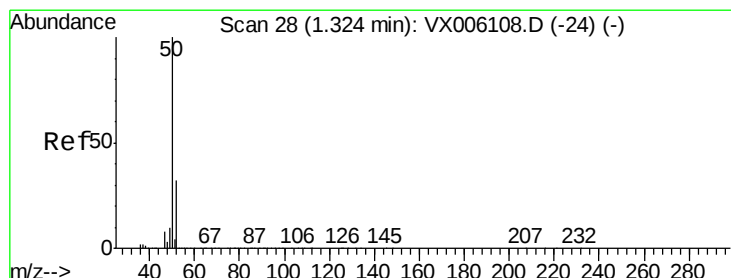
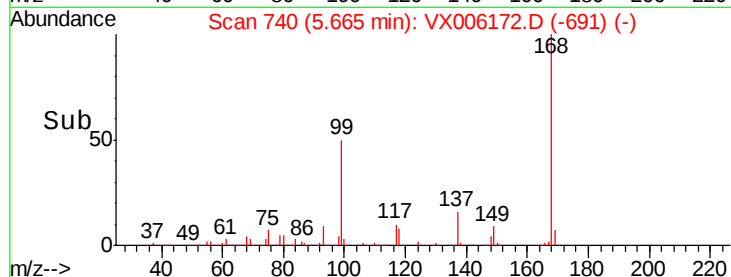
5.67

100000

50000

0

Time-->



#3

Chloromethane

Concen: 0.262 ug/l

RT: 1.33 min Scan# 29

Delta R.T. 0.01 min

Lab File: VX006172.D

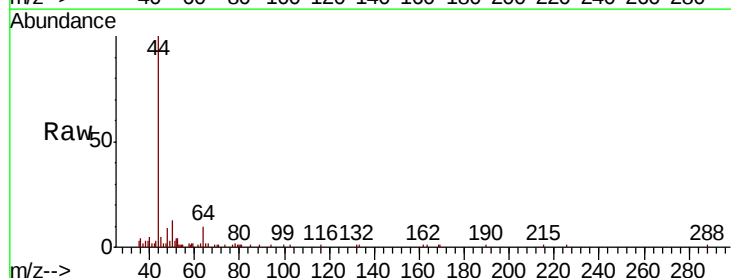
Acq: 26 Nov 2018 13:51

Tgt Ion: 50 Resp: 813

Ion Ratio Lower Upper

50 100

52 54.0 25.6 38.4#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.33

800

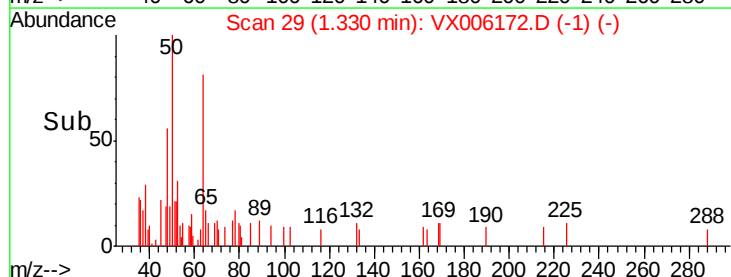
600

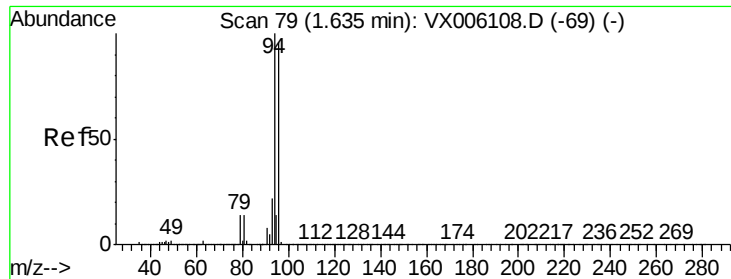
400

200

0

Time-->





#5

Bromomethane

Concen: 3.961 ug/l

RT: 1.65 min Scan# 82

Delta R.T. 0.02 min

Lab File: VX006172.D

Acq: 26 Nov 2018 13:51

Instrument :

MSVOA_X

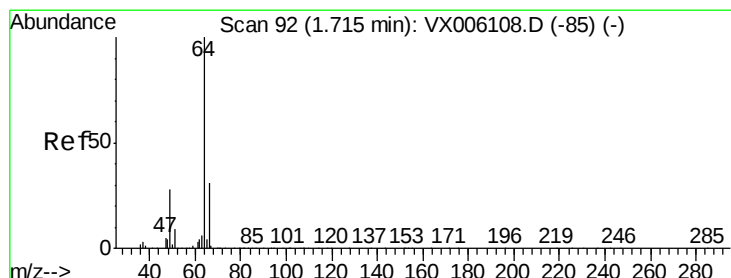
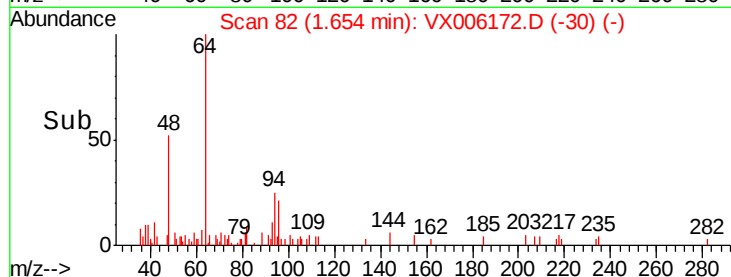
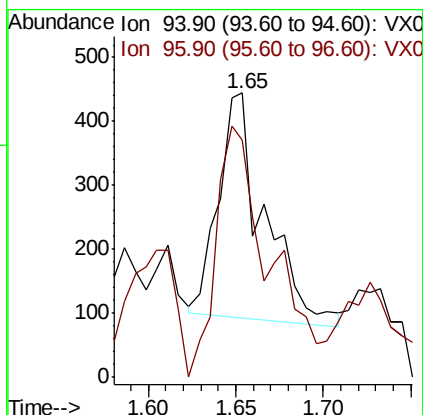
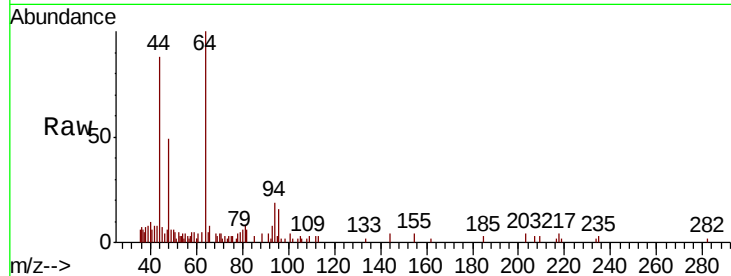
ClientSampleId :

Tot Ion: 94 Resp: 645

Ion Ratio Lower Upper

94 100

96 92.2 76.7 115.1



#6

Chloroethane

Concen: Below Cal

RT: 1.80 min Scan# 106

Delta R.T. 0.09 min

Lab File: VX006172.D

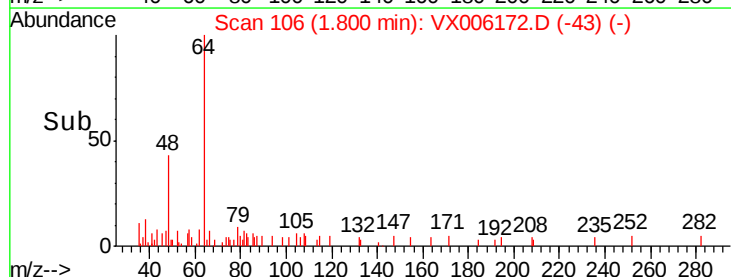
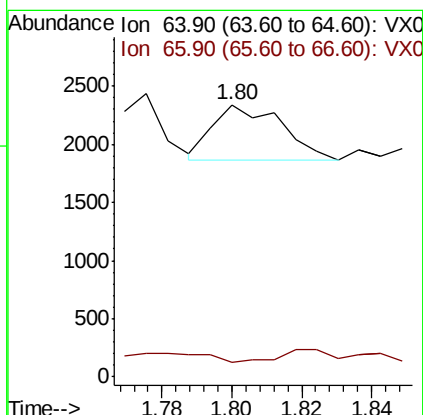
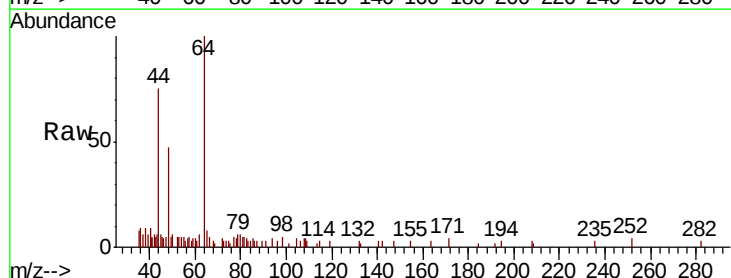
Acq: 26 Nov 2018 13:51

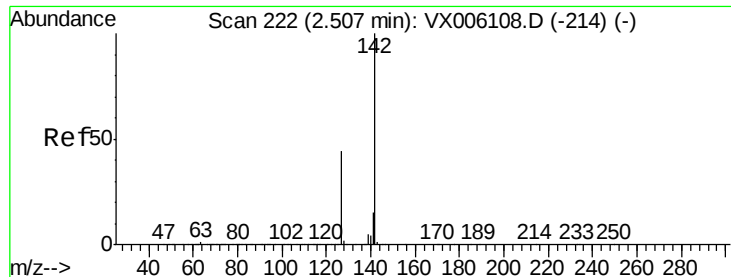
Tgt Ion: 64 Resp: 642

Ion Ratio Lower Upper

64 100

66 0.0 25.1 37.7#

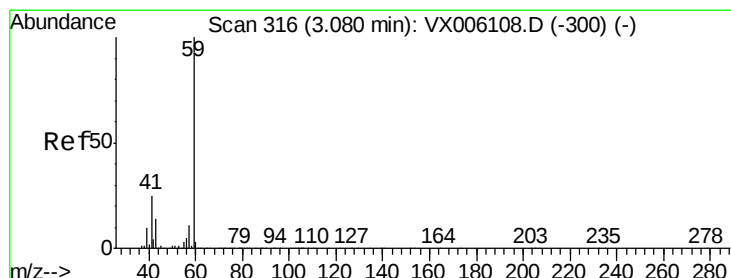
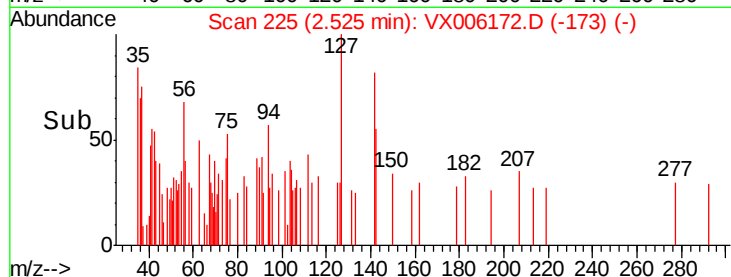
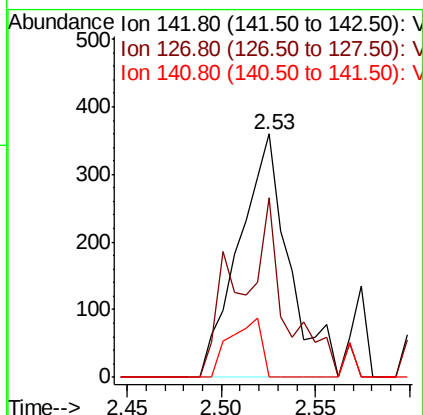
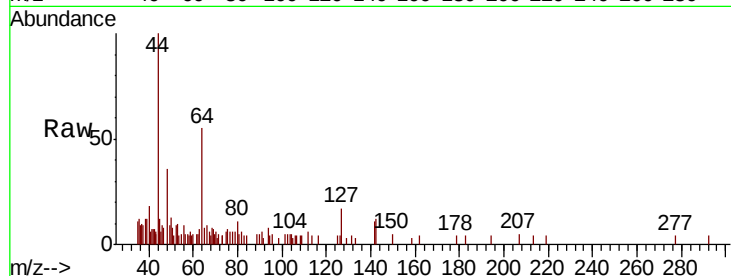




#10
Methvl Iodide
Concen: 0.214 ug/l
RT: 2.53 min Scan# 225
Delta R.T. 0.02 min
Lab File: VX006172.D
Acq: 26 Nov 2018 13:51

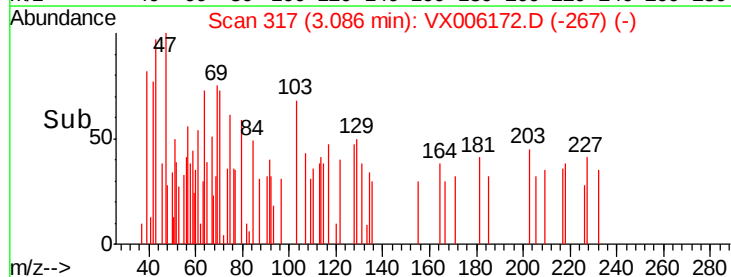
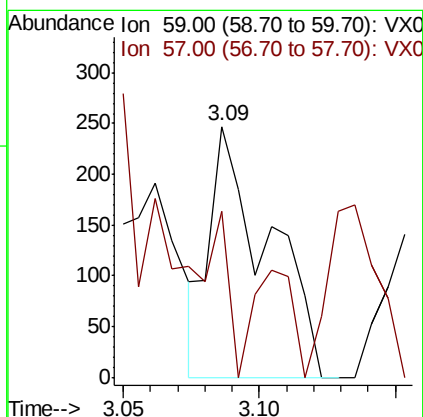
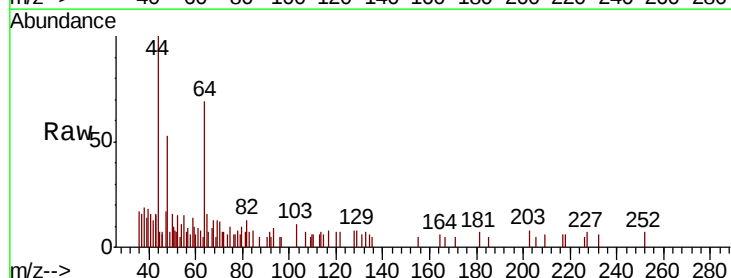
Instrument :
MSVOA_X
ClientSampleId :

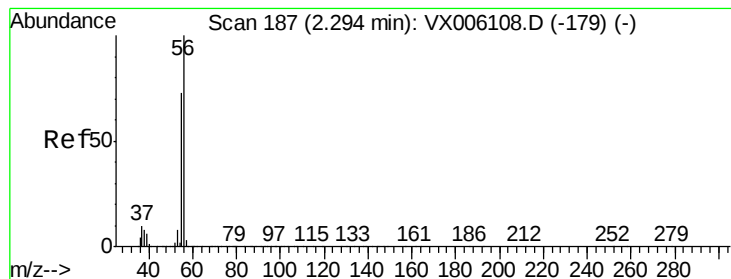
Tot Ion:142 Resp: 658
Ion Ratio Lower Upper
142 100
127 44.4 36.0 54.0
141 15.3 11.7 17.5



#11
Tert butyl alcohol
Concen: 0.448 ug/l
RT: 3.09 min Scan# 317
Delta R.T. 0.01 min
Lab File: VX006172.D
Acq: 26 Nov 2018 13:51

Tgt Ion: 59 Resp: 365
Ion Ratio Lower Upper
59 100
57 28.8 8.7 13.1#





#13

Acrolein

Concen: 0.318 ug/l

RT: 2.29 min Scan# 187

Delta R.T. -0.00 min

Lab File: VX006172.D

Acq: 26 Nov 2018 13:51

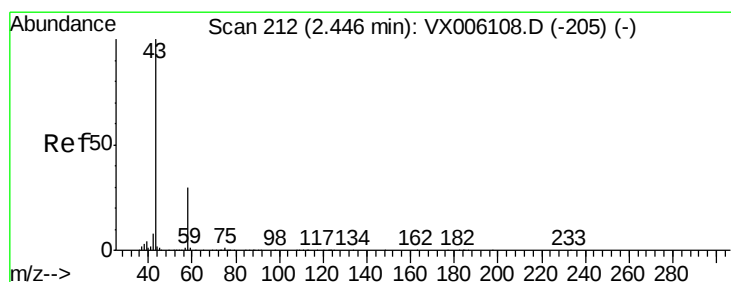
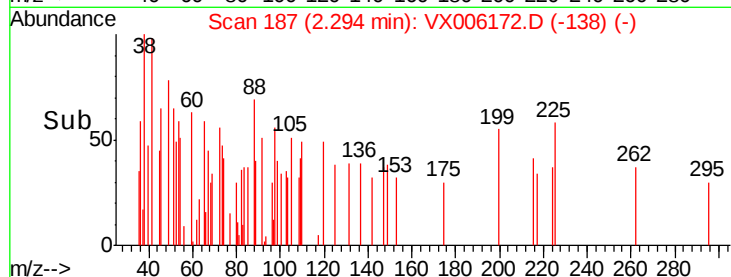
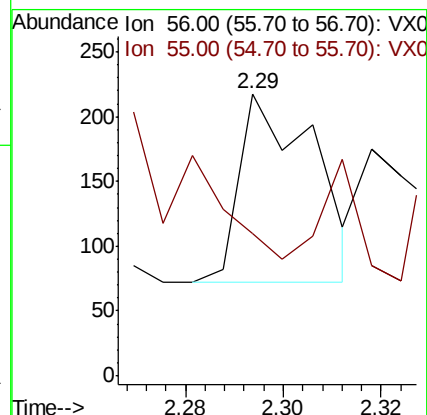
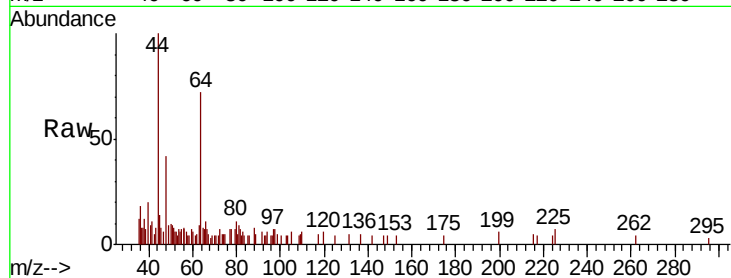
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 56 Resp: 155

Ion Ratio Lower Upper

56 100

55 33.5 57.8 86.6#



#16

Acetone

Concen: 0.604 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX006172.D

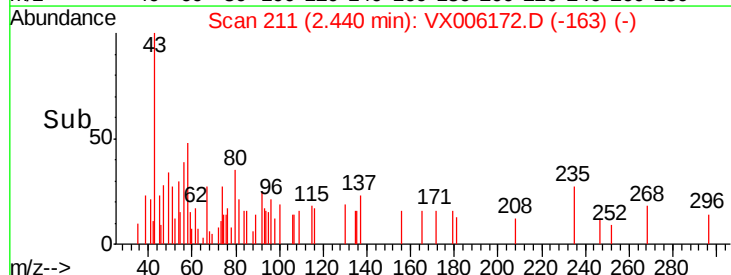
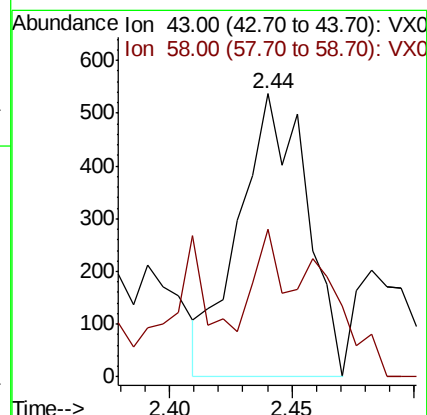
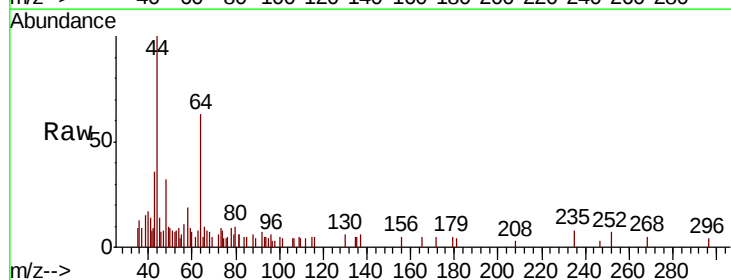
Acq: 26 Nov 2018 13:51

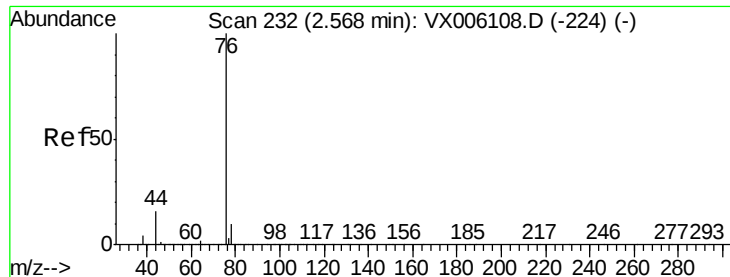
Tgt Ion: 43 Resp: 1027

Ion Ratio Lower Upper

43 100

58 27.4 23.8 35.8

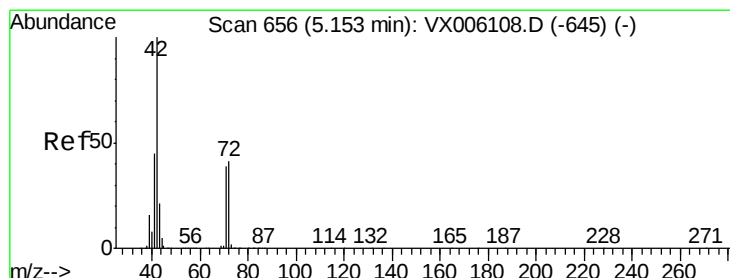
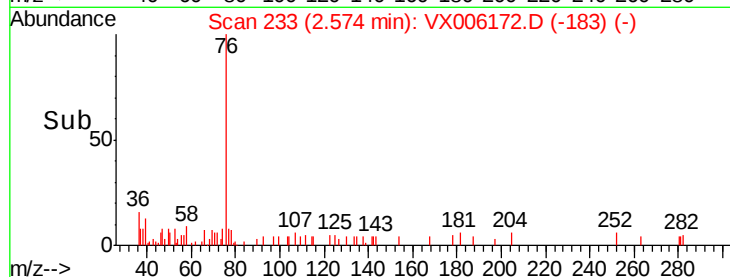
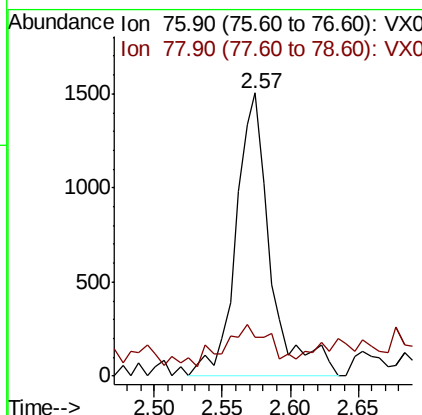
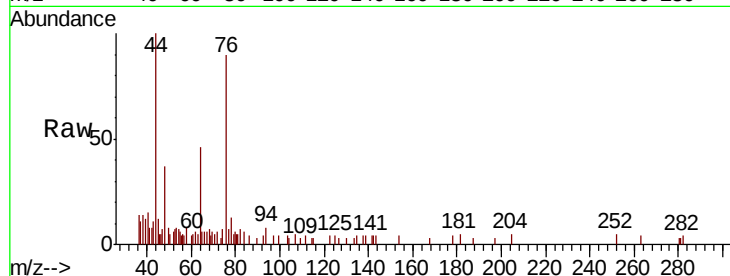




#17
Carbon Disulfide
Concen: 0.409 ug/l
RT: 2.57 min Scan# 233
Delta R.T. 0.01 min
Lab File: VX006172.D
Acq: 26 Nov 2018 13:51

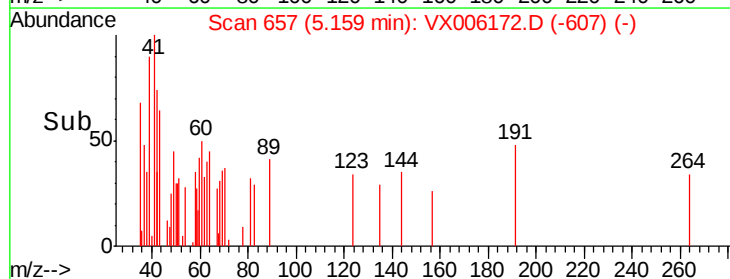
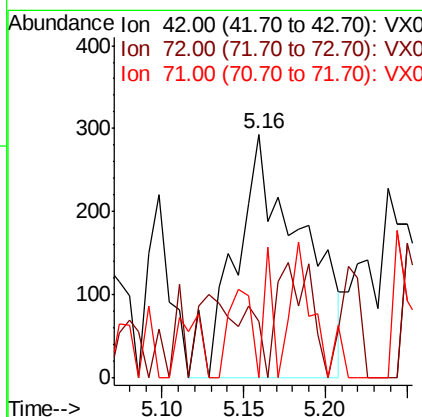
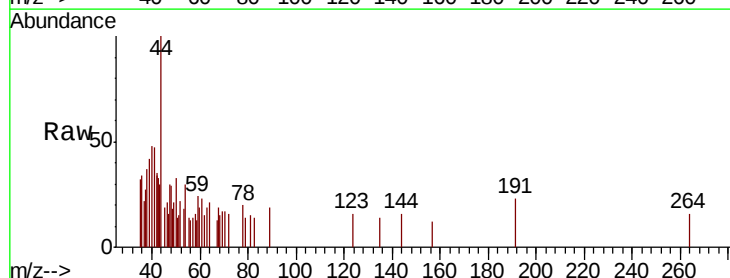
Instrument :
MSVOA_X
ClientSampleId :

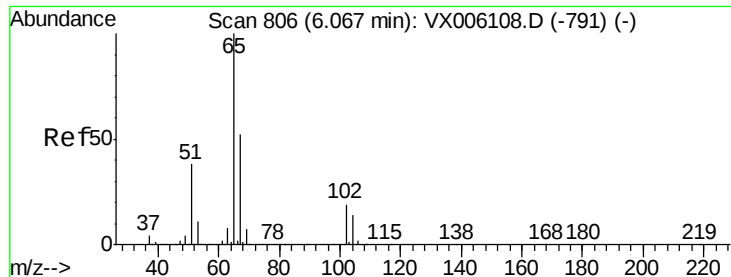
Tot Ion: 76 Resp: 2637
Ion Ratio Lower Upper
76 100
78 7.2 7.7 11.5#



#29
Tetrahydrofuran
Concen: 0.427 ug/l
RT: 5.16 min Scan# 657
Delta R.T. 0.01 min
Lab File: VX006172.D
Acq: 26 Nov 2018 13:51

Tgt Ion: 42 Resp: 841
Ion Ratio Lower Upper
42 100
72 0.0 33.0 49.6#
71 6.9 31.0 46.4#

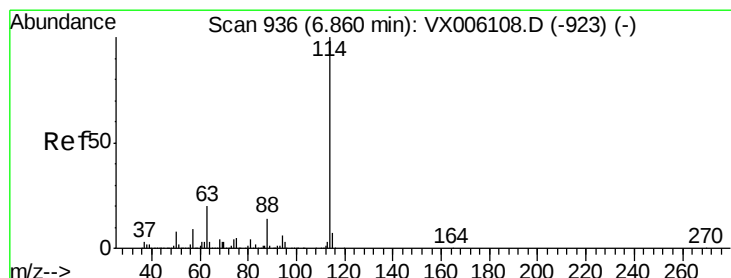
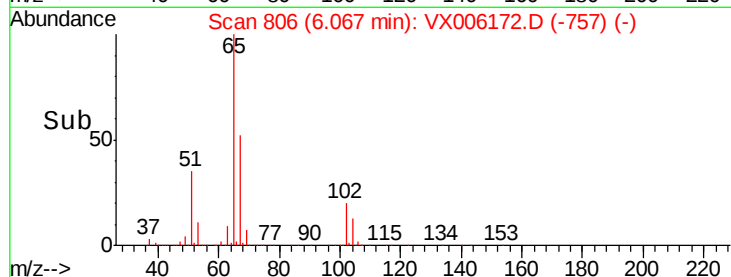
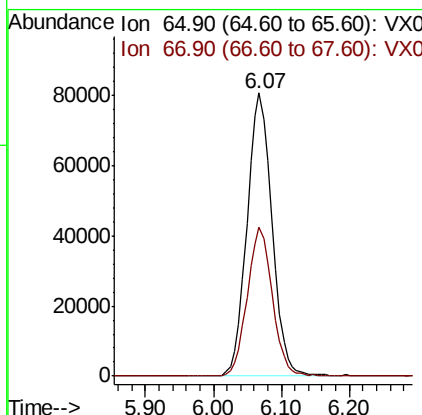
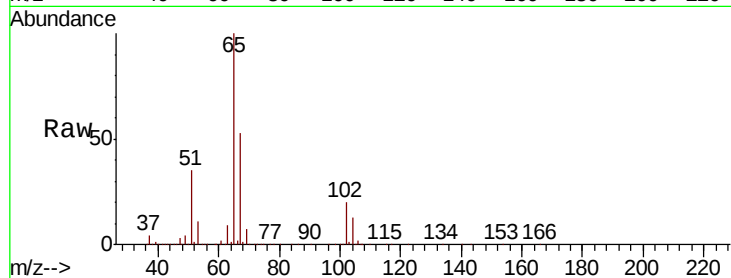




#33
 1,2-Dichloroethane-d4
 Concen: 54.004 ug/l
 RT: 6.07 min Scan# 806
 Delta R.T. -0.00 min
 Lab File: VX006172.D
 Acq: 26 Nov 2018 13:51

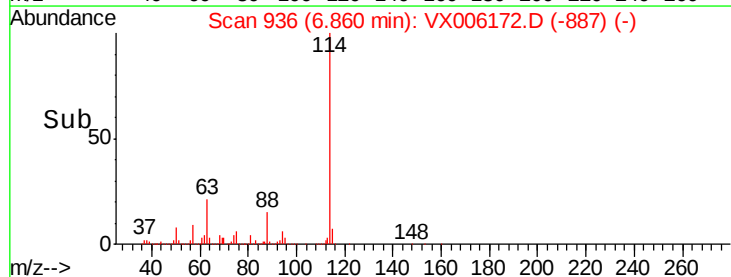
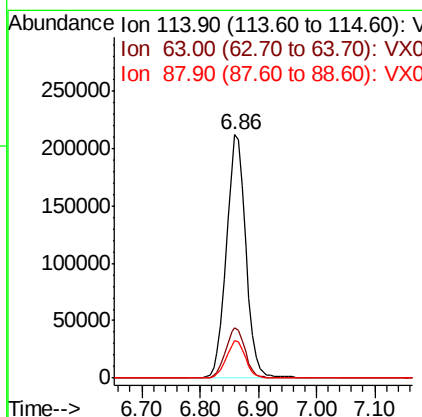
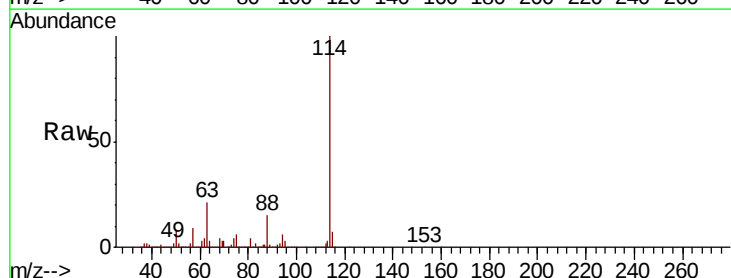
Instrument :
 MSVOA_X
 ClientSampleId :

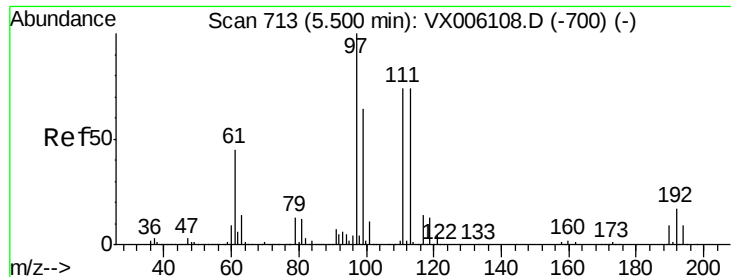
Tot Ion: 65 Resp: 206780
 Ion Ratio Lower Upper
 65 100
 67 52.8 0.0 105.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX006172.D
 Acq: 26 Nov 2018 13:51

Tgt Ion: 114 Resp: 492643
 Ion Ratio Lower Upper
 114 100
 63 20.7 0.0 39.2
 88 15.5 0.0 28.6





#35

Dibromofluoromethane

Concen: 52.580 ug/l

RT: 5.50 min Scan# 713

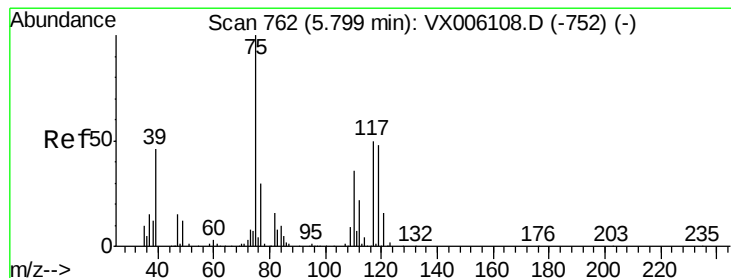
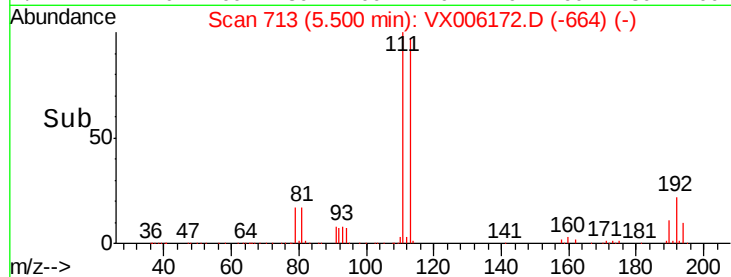
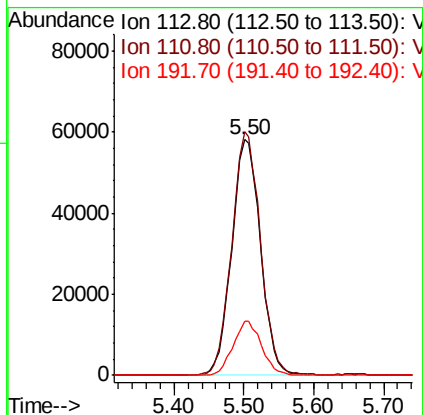
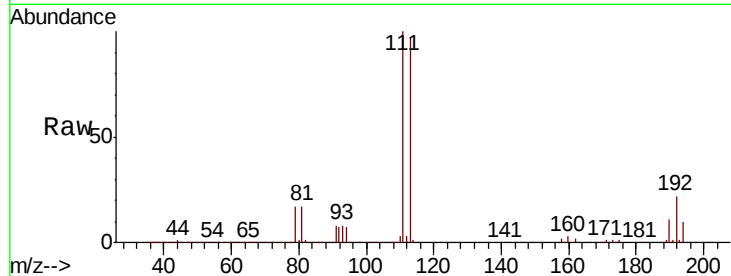
Delta R.T. -0.00 min

Lab File: VX006172.D

Acq: 26 Nov 2018 13:51

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:113	Resp:	166277
Ion	Ratio	Lower Upper
113	100	
111	102.7	81.5 122.3
192	22.7	18.6 28.0



#36

1,1-Dichloropropene

Concen: 5.438 ug/l

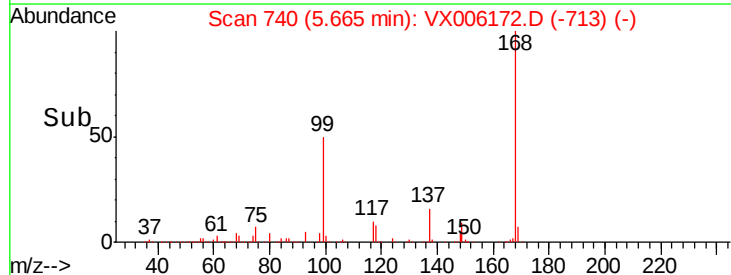
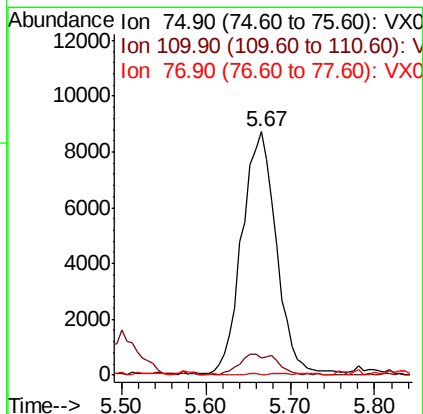
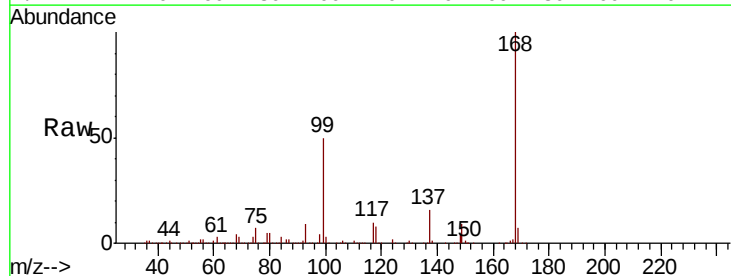
RT: 5.67 min Scan# 740

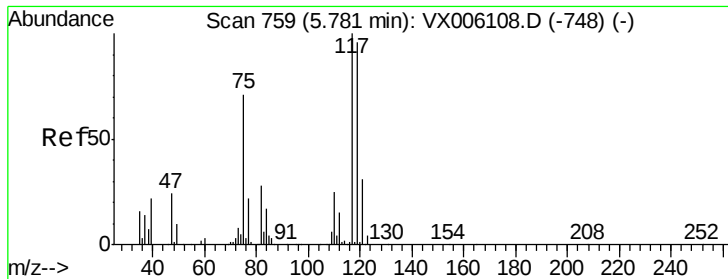
Delta R.T. -0.13 min

Lab File: VX006172.D

Acq: 26 Nov 2018 13:51

Tgt Ion: 75	Resp:	24372
Ion	Ratio	Lower Upper
75	100	
110	9.4	17.8 53.3#
77	0.2	24.5 36.7#





#38

Carbon Tetrachloride

Concen: 7.154 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX006172.D

Acq: 26 Nov 2018 13:51

Instrument :

MSVOA_X

ClientSampleId :

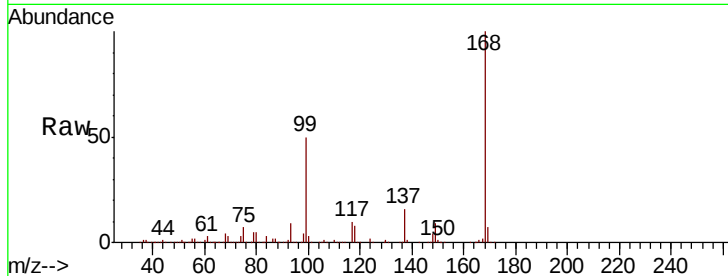
Tot Ion:117 Resp: 30135

Ion Ratio Lower Upper

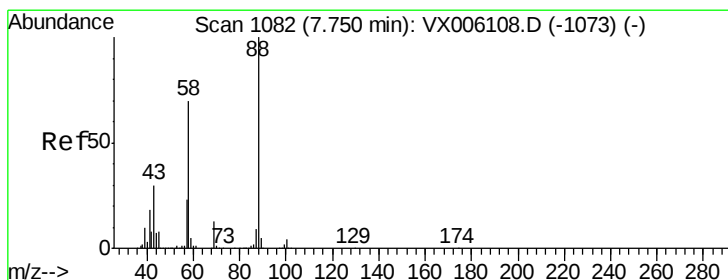
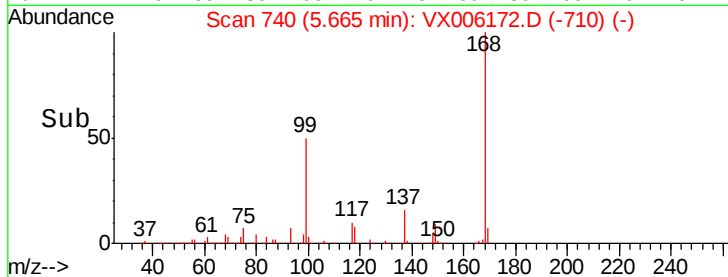
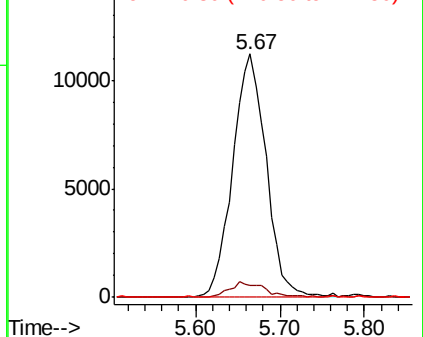
117 100

119 5.0 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: 0.499 ug/l

RT: 7.73 min Scan# 1079

Delta R.T. -0.02 min

Lab File: VX006172.D

Acq: 26 Nov 2018 13:51

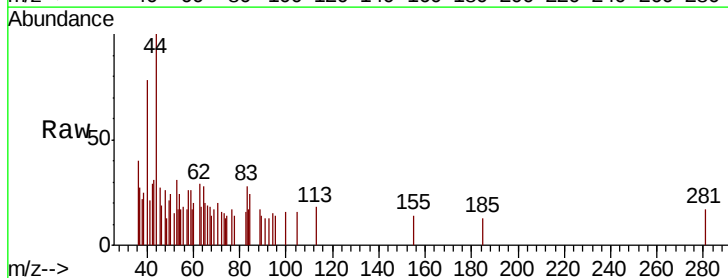
Tgt Ion: 88 Resp: 50

Ion Ratio Lower Upper

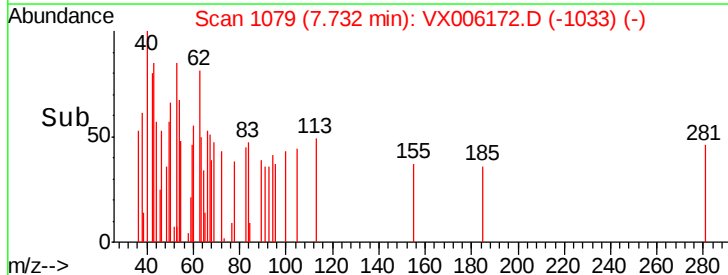
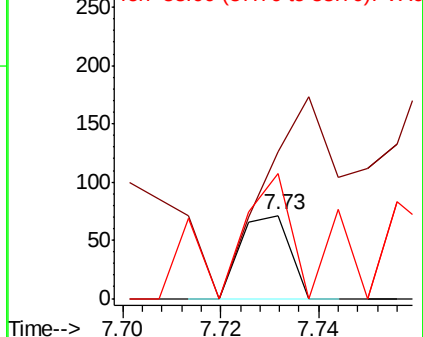
88 100

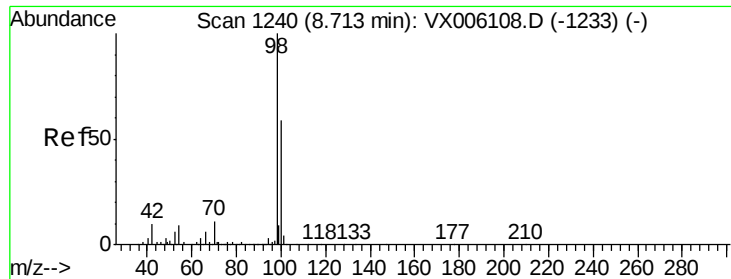
43 346.0 26.7 40.1#

58 182.0 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: 49.243 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX006172.D

Acq: 26 Nov 2018 13:51

Instrument :

MSVOA_X

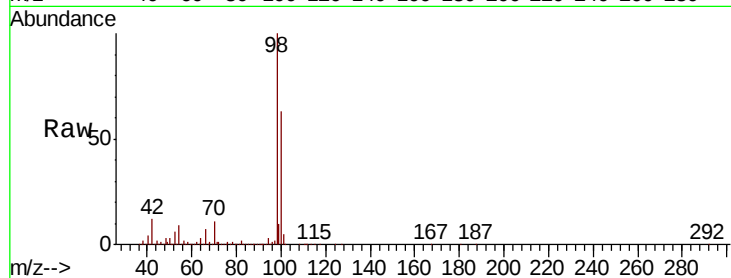
ClientSampled :

Tot Ion: 98 Resp: 593955

Ion Ratio Lower Upper

98 100

100 62.9 51.0 76.4



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX

8.71

400000

300000

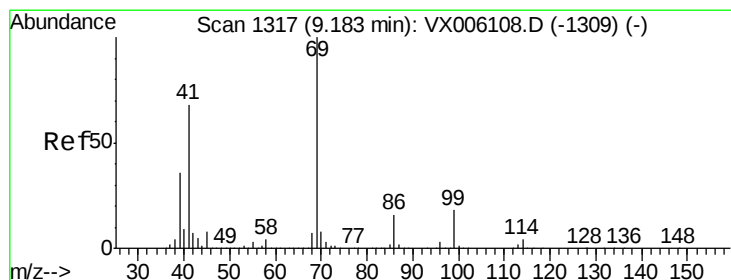
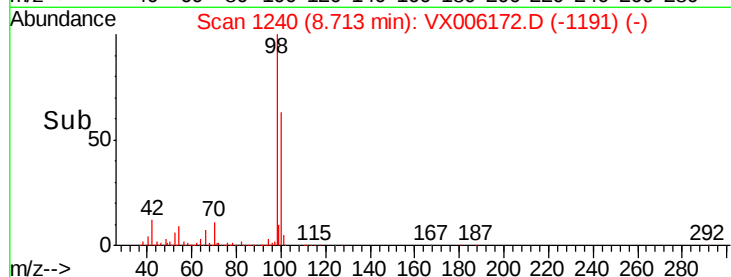
200000

100000

0

8.60 8.70 8.80 8.90

Time-->



#56

Ethyl methacrylate

Concen: 2.874 ug/l

RT: 9.18 min Scan# 1316

Delta R.T. -0.01 min

Lab File: VX006172.D

Acq: 26 Nov 2018 13:51

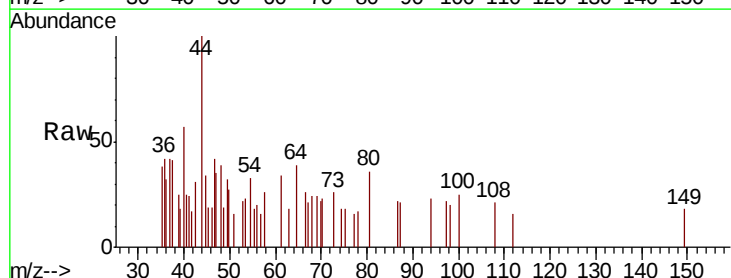
Tgt Ion: 69 Resp: 50

Ion Ratio Lower Upper

69 100

41 458.0 56.2 84.4#

39 172.0 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

300

250

200

150

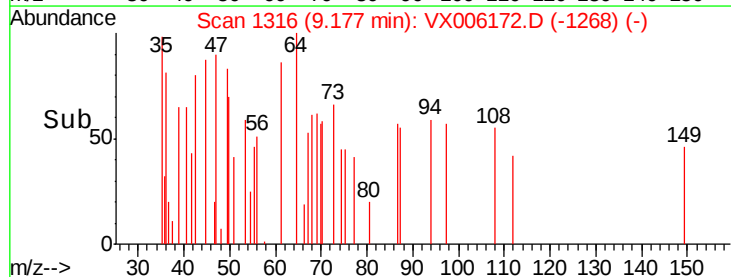
100

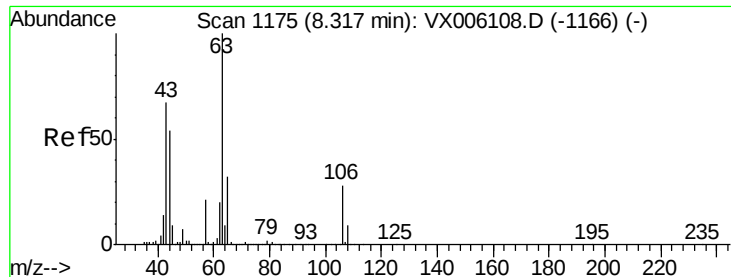
50

0

9.16 9.18 9.20

Time-->

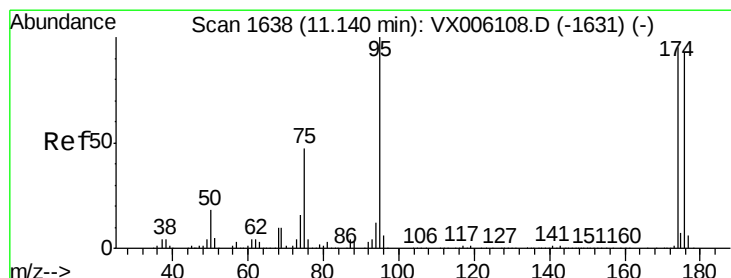
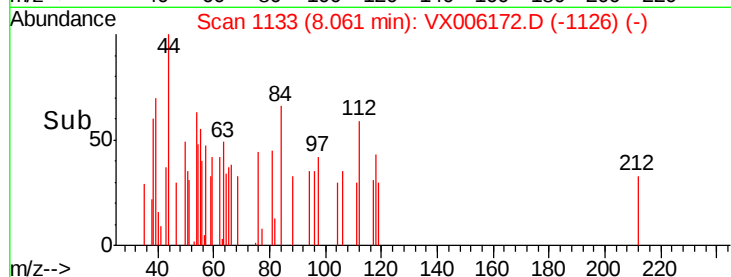
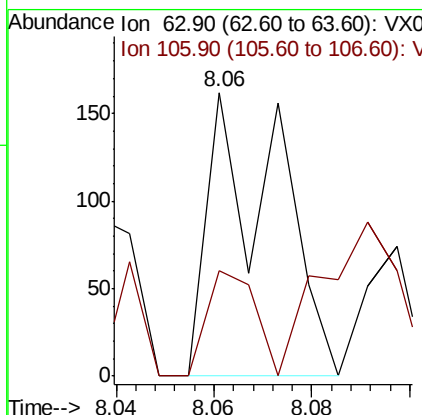
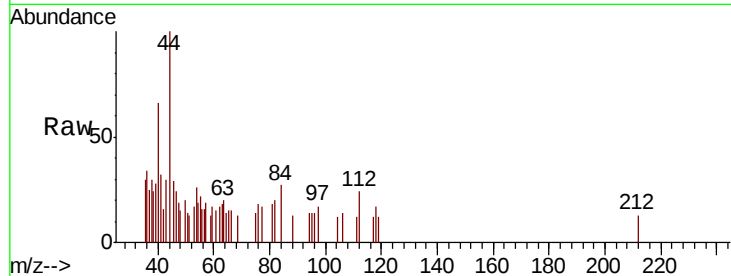




#58
2-Chloroethyl Vinyl ether
Concen: 6.771 ug/l
RT: 8.06 min Scan# 1133
Delta R.T. -0.26 min
Lab File: VX006172.D
Acq: 26 Nov 2018 13:51

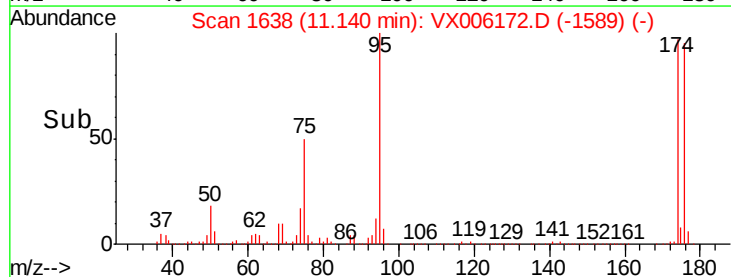
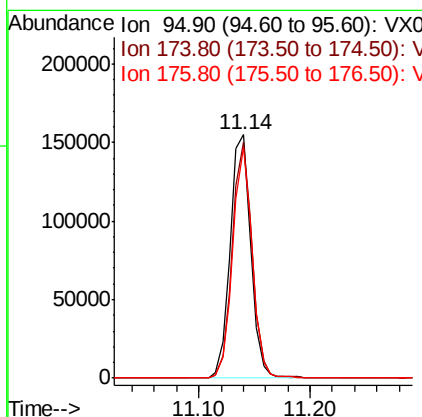
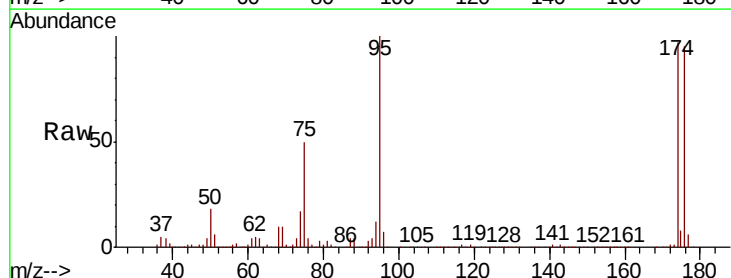
Instrument :
MSVOA_X
ClientSampled :

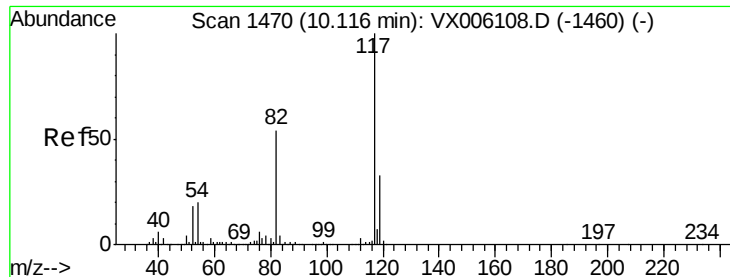
Tot Ion: 63 Resp: 157
Ion Ratio Lower Upper
63 100
106 26.1 21.7 32.5



#62
4-Bromofluorobenzene
Concen: 44.029 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. -0.00 min
Lab File: VX006172.D
Acq: 26 Nov 2018 13:51

Tgt Ion: 95 Resp: 199257
Ion Ratio Lower Upper
95 100
174 93.4 0.0 184.4
176 89.8 0.0 179.0

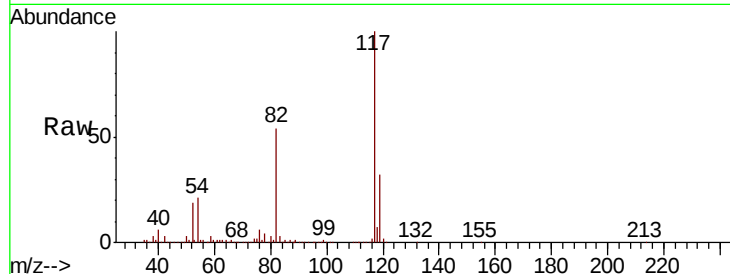




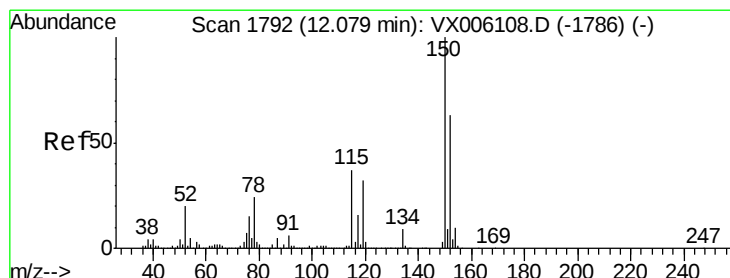
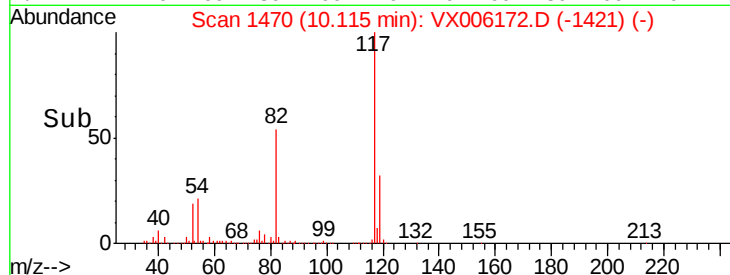
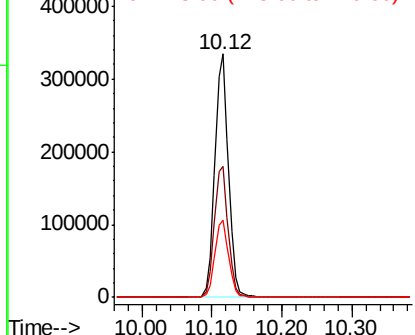
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. -0.00 min
Lab File: VX006172.D
Acq: 26 Nov 2018 13:51

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
117	100		
82	53.7	43.0	64.4
119	31.9	26.1	39.1

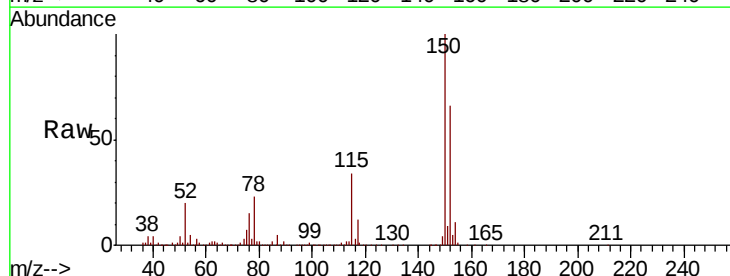


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

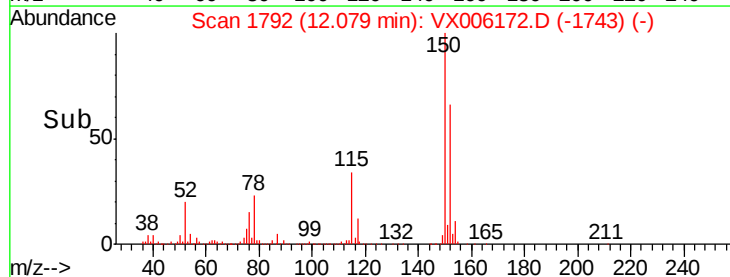
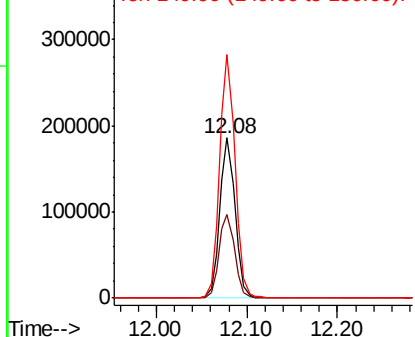


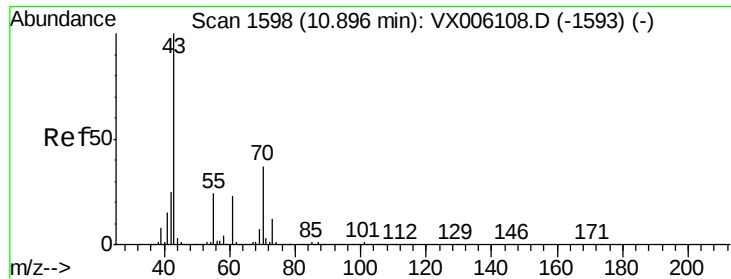
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX006172.D
Acq: 26 Nov 2018 13:51

Tgt Ion	Ratio	Lower	Upper
152	100		
115	53.8	39.0	116.9
150	153.8	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: 2.215 ug/l

RT: 10.91 min Scan# 1600

Delta R.T. 0.01 min

Lab File: VX006172.D

Acq: 26 Nov 2018 13:51

Instrument :

MSVOA_X

ClientSampled :

Tot Ion: 43 Resp: 163

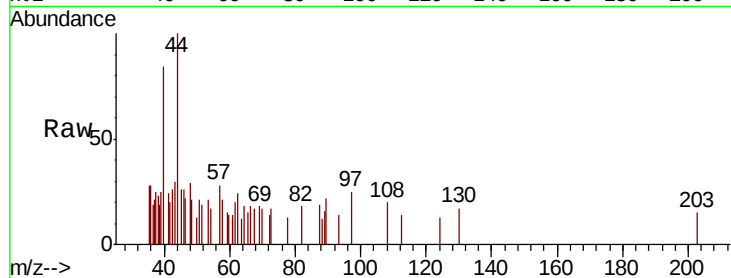
Ion Ratio Lower Upper

43 100

70 142.9 31.8 47.6#

55 31.3 19.5 29.3#

61 0.0 18.6 27.8#

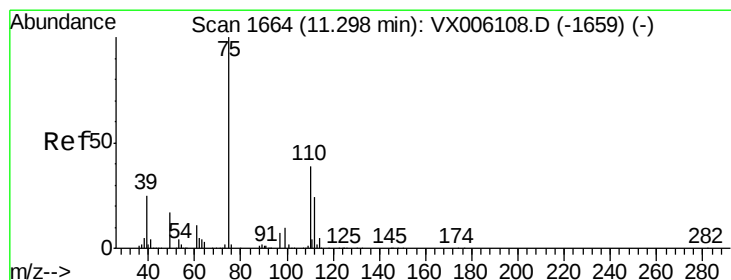
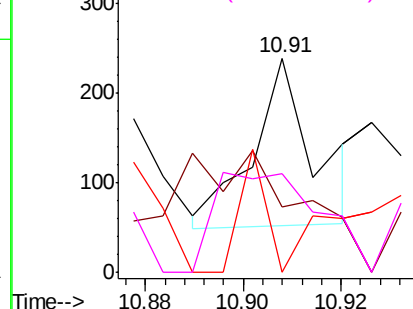
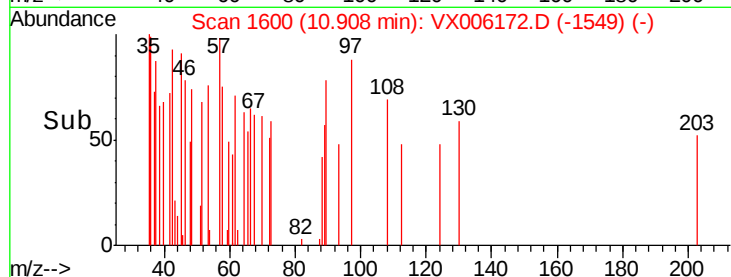


Abundance Ion 43.00 (42.70 to 43.70): VX0

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: 22.337 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX006172.D

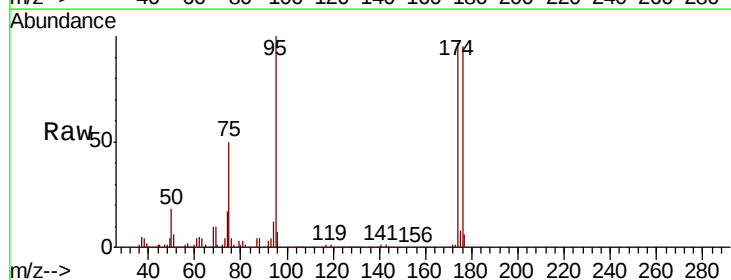
Acq: 26 Nov 2018 13:51

Tgt Ion: 75 Resp: 100822

Ion Ratio Lower Upper

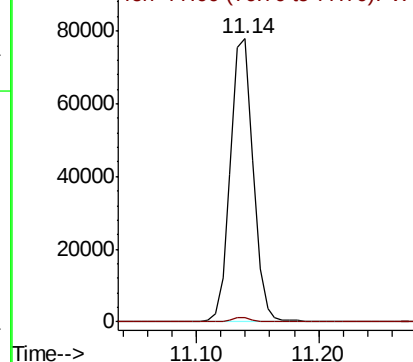
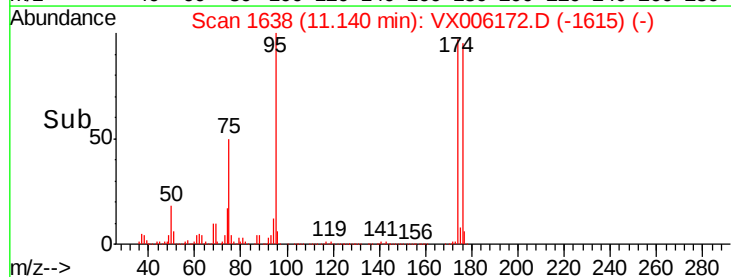
75 100

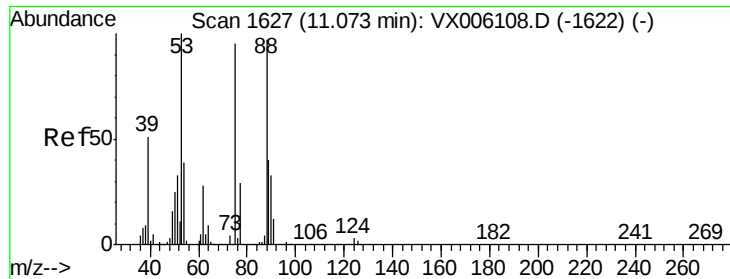
77 1.5 19.6 58.7#



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: 75.550 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.07 min

Lab File: VX006172.D

Acq: 26 Nov 2018 13:51

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion: 75 Resp: 100822

Ion Ratio Lower Upper

75 100

53 0.3 85.3 127.9#

89 0.0 37.2 55.8#

