

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX070518\
 Data File : VX003178.D
 Acq On : 05 Jul 2018 17:53
 Operator : JC/MD
 Sample : J3842-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jul 06 01:04:30 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X062518W.M
 Quant Title : SW846 8260
 QLast Update : Mon Jun 25 14:38:05 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	256376	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	356753	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	338252	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	189000	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	162770	45.93	ug/l	0.00
Spiked Amount			Recovery	=	91.86%	
35) Dibromofluoromethane	5.51	113	134717	47.68	ug/l	0.00
Spiked Amount			Recovery	=	95.36%	
50) Toluene-d8	8.72	98	507656	49.21	ug/l	0.00
Spiked Amount			Recovery	=	98.42%	
62) 4-Bromofluorobenzene	11.14	95	173815	43.69	ug/l	0.00
Spiked Amount			Recovery	=	87.38%	

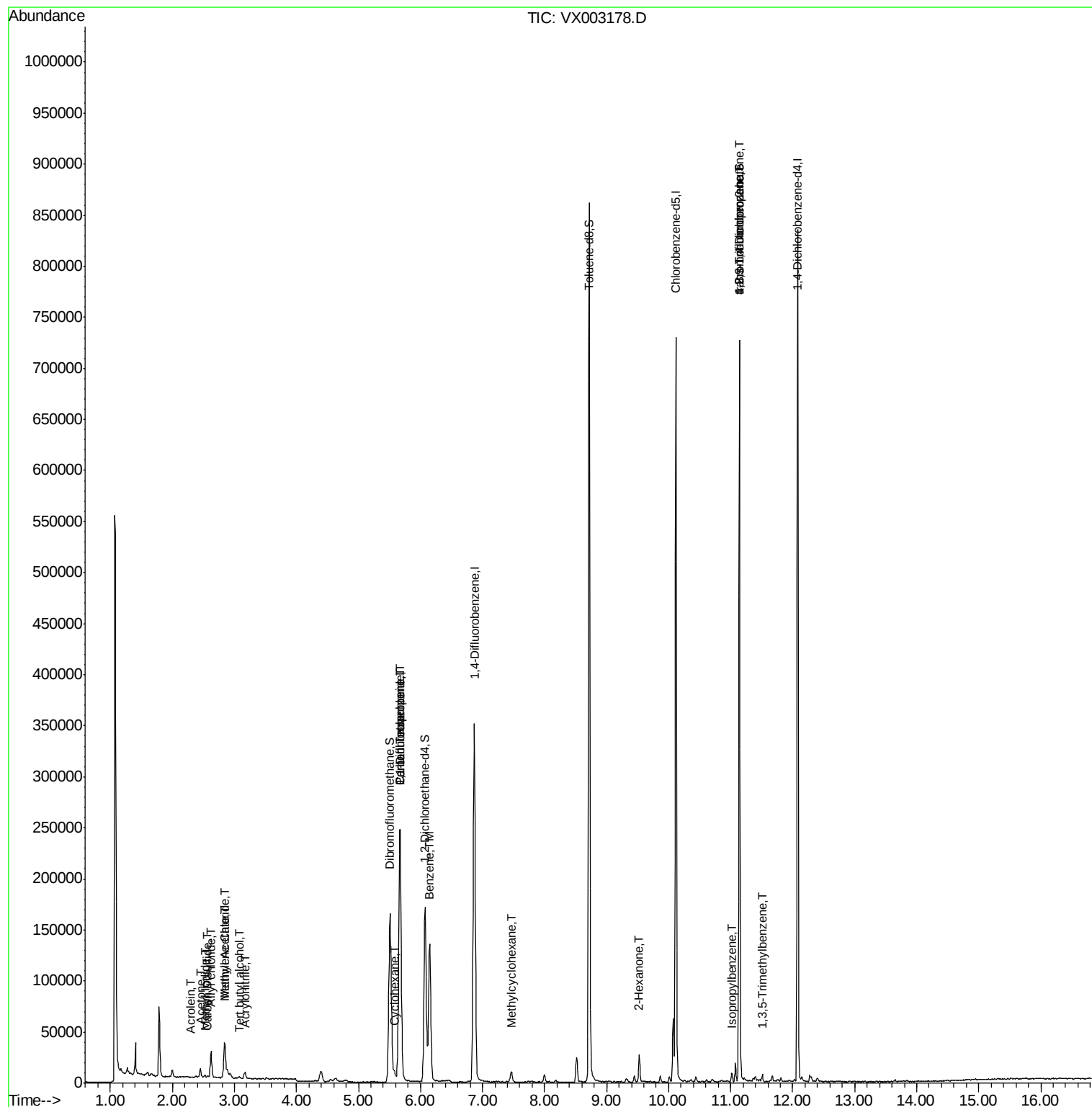
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	181	Below Cal		81
3) Chloromethane	1.32	50	1259	Below Cal		93
5) Bromomethane	1.65	94	1804	Below Cal	#	64
6) Chloroethane	1.74	64	332	Below Cal	#	43
10) Methyl Iodide	2.53	142	2494	6.99	ug/l	# 97
11) Tert butyl alcohol	3.07	59	2821	4.00	ug/l	97
13) Acrolein	2.30	56	254	4.87	ug/l	97
14) Allyl chloride	2.62	41	2547	0.51	ug/l	# 72
15) Acrylonitrile	3.17	53	522	0.35	ug/l	# 83
16) Acetone	2.45	43	9157	6.24	ug/l	96
17) Carbon Disulfide	2.57	76	1893	0.28	ug/l	# 88
18) Methyl Acetate	2.84	43	26752	6.52	ug/l	# 55
20) Methylene Chloride	2.85	84	1609	0.56	ug/l	# 81
31) Cyclohexane	5.58	56	5863	1.32	ug/l	98
36) 1,1-Dichloropropene	5.67	75	16544	4.23	ug/l	# 51
38) Carbon Tetrachloride	5.67	117	22764	5.30	ug/l	# 17
39) Methylcyclohexane	7.47	83	3995	0.88	ug/l	96
40) Benzene	6.15	78	158873	13.98	ug/l	99
59) 2-Hexanone	9.52	43	1907	0.57	ug/l	97
73) Isopropylbenzene	11.02	105	3872	0.30	ug/l	95
76) 1,2,3-Trichloropropane	11.14	75	87529	25.57	ug/l	# 33
80) 1,3,5-Trimethylbenzene	11.51	105	2622	0.24	ug/l	95
81) trans-1,4-Dichloro-2-buten	11.14	75	87529	72.56	ug/l	# 7

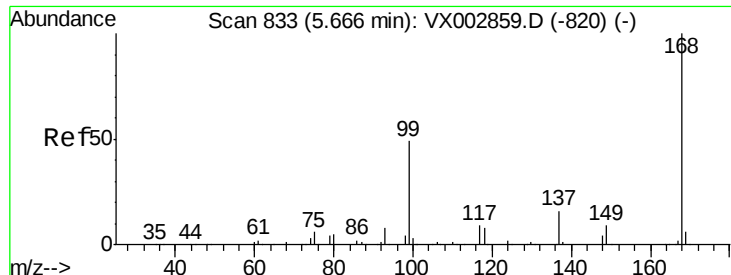
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.01 min

Lab File: VX003178.D

Acq: 05 Jul 2018 17:53

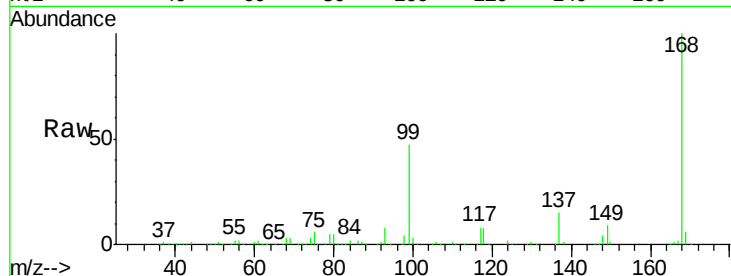
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 256376

Ion Ratio Lower Upper

168 100

99 47.3 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

100000

80000

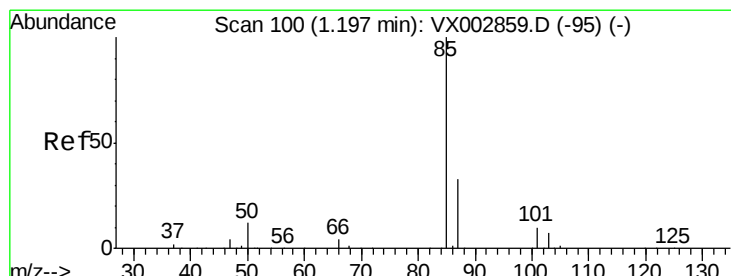
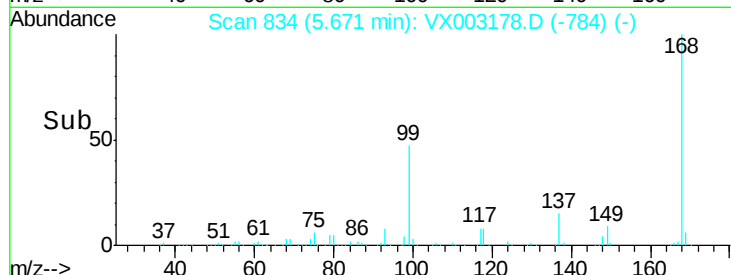
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.20 min Scan# 100

Delta R.T. 0.00 min

Lab File: VX003178.D

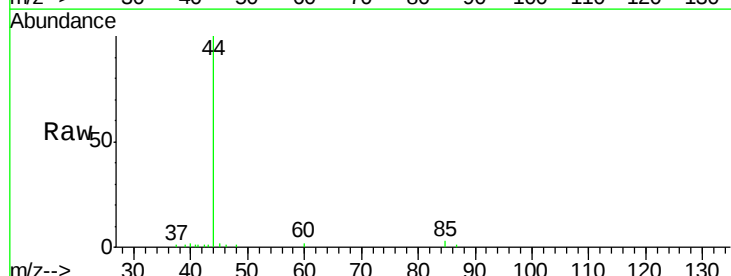
Acq: 05 Jul 2018 17:53

Tgt Ion: 85 Resp: 181

Ion Ratio Lower Upper

85 100

87 21.6 16.0 47.9



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.20

250

200

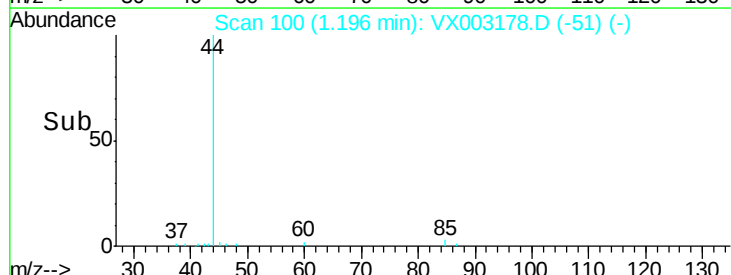
150

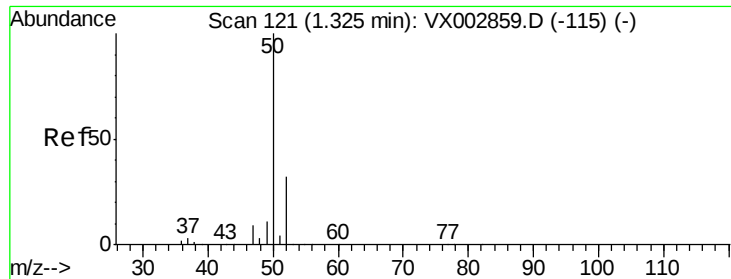
100

50

0

Time--> 1.16 1.18 1.20 1.22





#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX003178.D

Acq: 05 Jul 2018 17:53

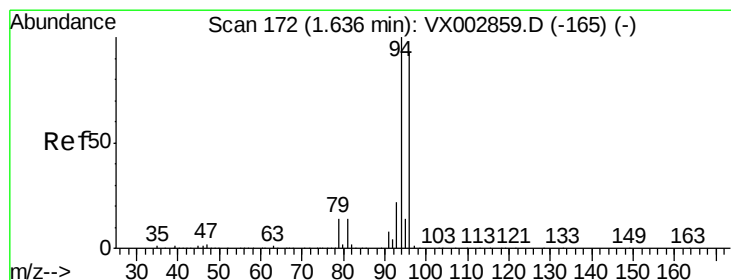
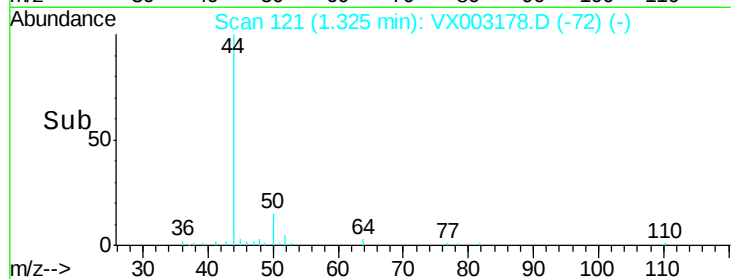
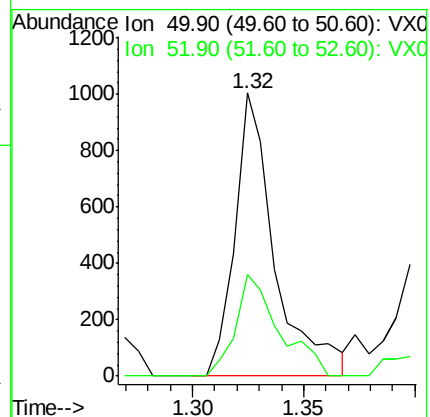
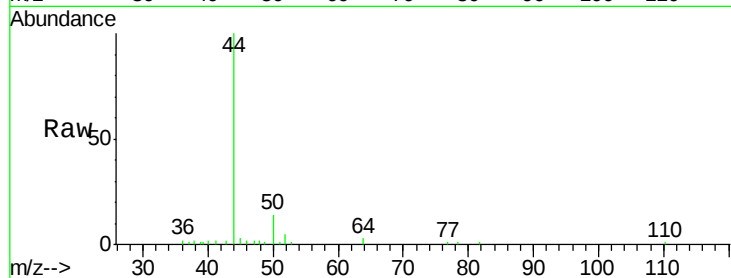
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 50 Resp: 1259

Ion Ratio Lower Upper

50 100

52 36.1 25.7 38.5



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 175

Delta R.T. 0.02 min

Lab File: VX003178.D

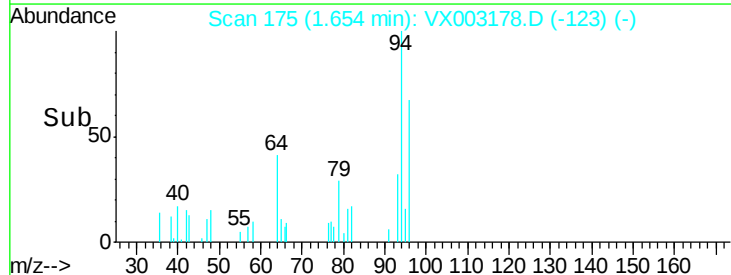
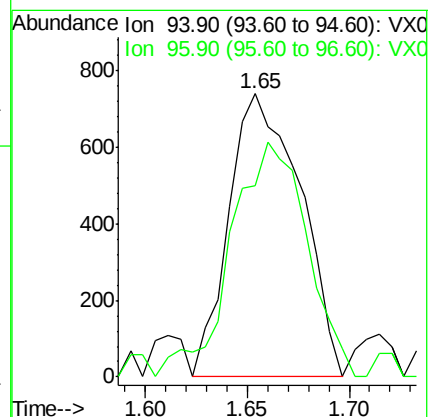
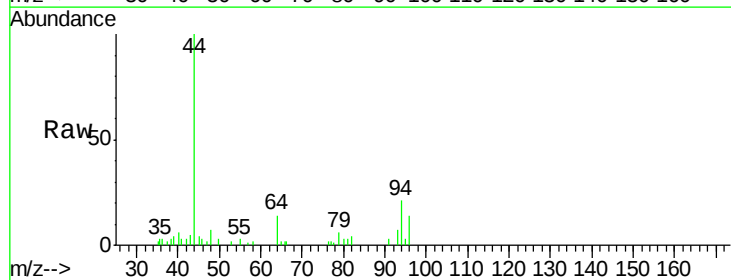
Acq: 05 Jul 2018 17:53

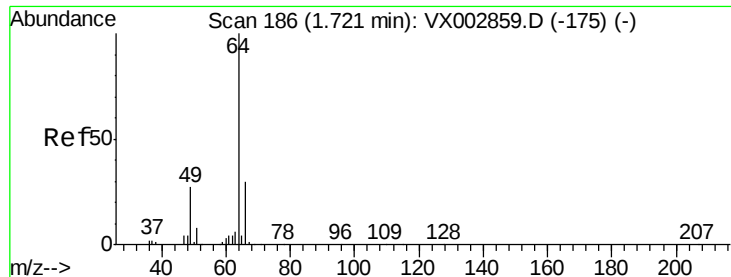
Tgt Ion: 94 Resp: 1804

Ion Ratio Lower Upper

94 100

96 58.8 74.9 112.3#





#6

Chloroethane

Concen: Below Cal

RT: 1.74 min Scan# 189

Delta R.T. 0.02 min

Lab File: VX003178.D

Acq: 05 Jul 2018 17:53

Instrument :

MSVOA_X

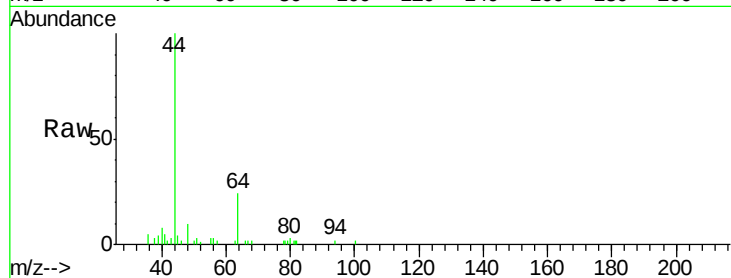
ClientSampled :

Tot Ion: 64 Resp: 332

Ion Ratio Lower Upper

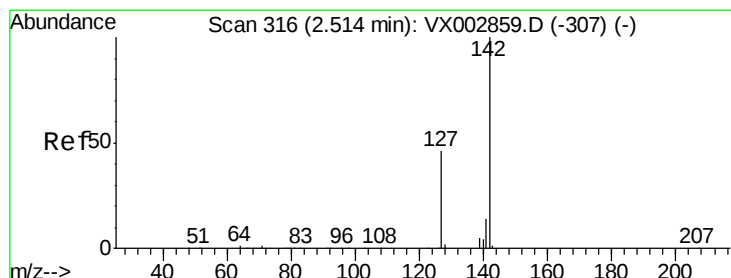
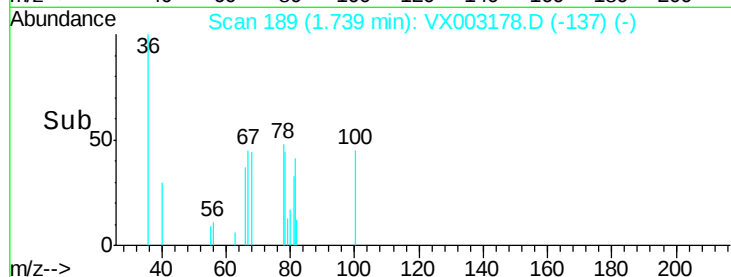
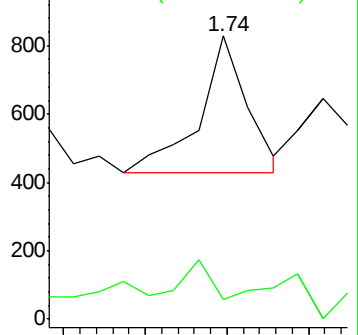
64 100

66 0.0 25.5 38.3#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#10

Methyl Iodide

Concen: 6.99 ug/l

RT: 2.53 min Scan# 318

Delta R.T. 0.01 min

Lab File: VX003178.D

Acq: 05 Jul 2018 17:53

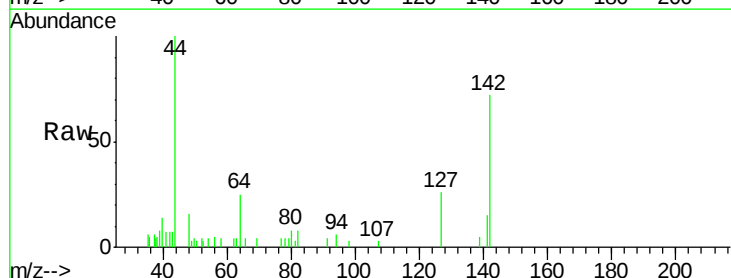
Tgt Ion: 142 Resp: 2494

Ion Ratio Lower Upper

142 100

127 46.5 36.6 55.0

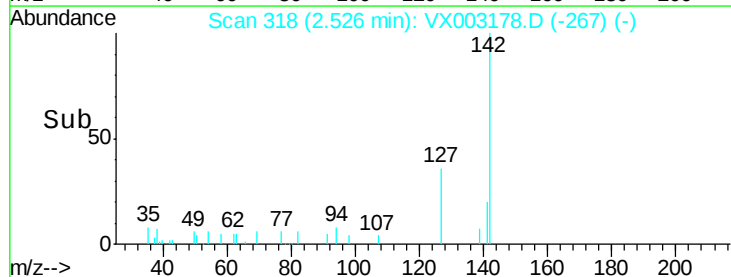
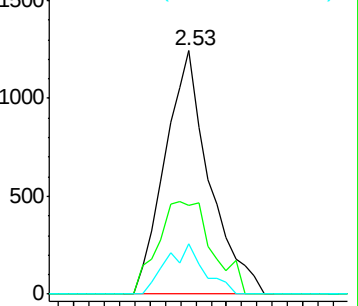
141 17.5 11.3 16.9#

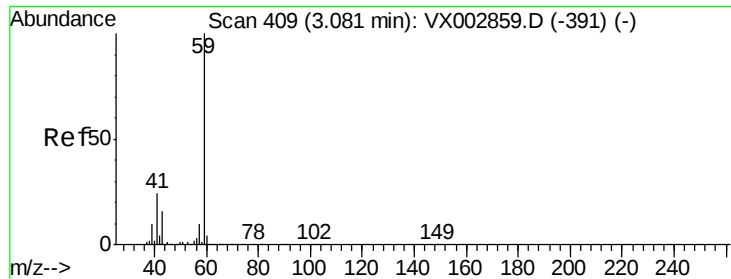


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

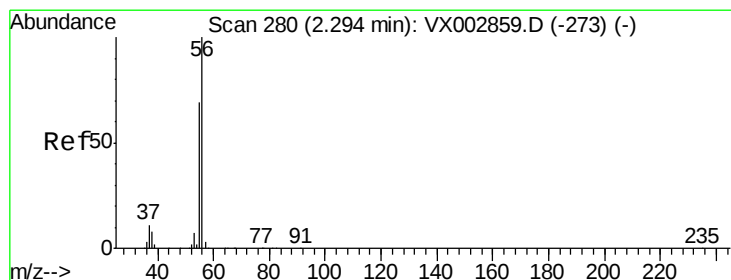
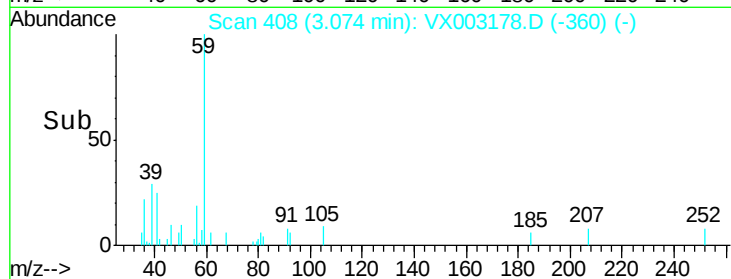
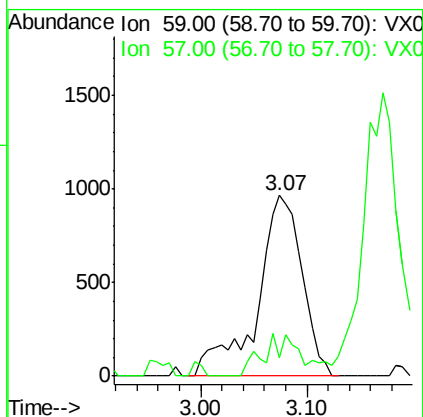
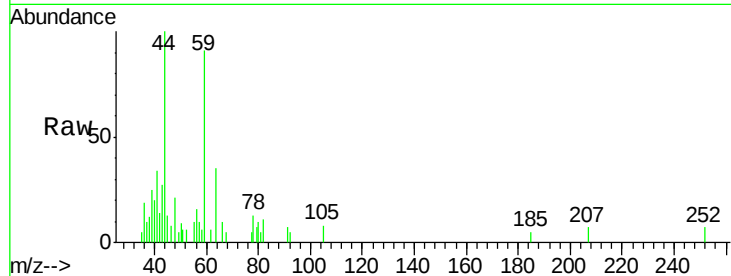




#11
Tert butyl alcohol
Concen: 4.00 ug/l
RT: 3.07 min Scan# 408
Delta R.T. -0.01 min
Lab File: VX003178.D
Acq: 05 Jul 2018 17:53

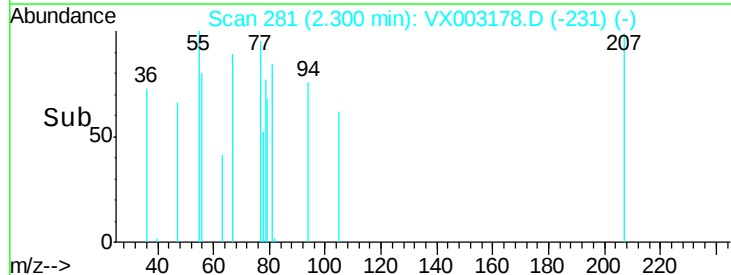
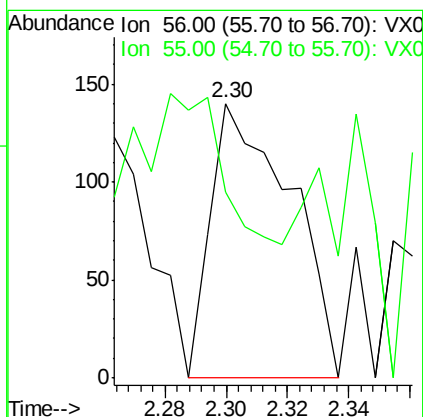
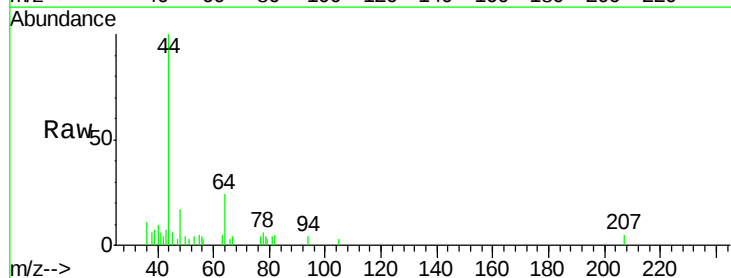
Instrument :
MSVOA_X
ClientSampleId :

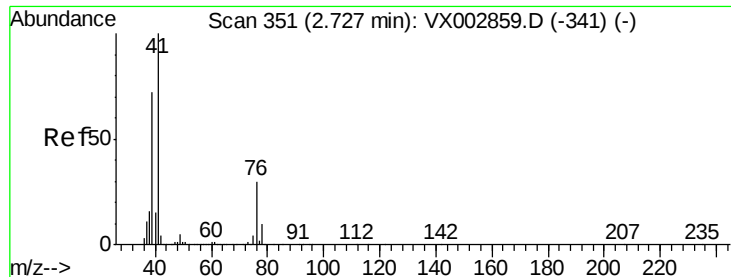
Tot Ion: 59 Resp: 2821
Ion Ratio Lower Upper
59 100
57 9.3 8.2 12.2



#13
Acrolein
Concen: 4.87 ug/l
RT: 2.30 min Scan# 281
Delta R.T. 0.01 min
Lab File: VX003178.D
Acq: 05 Jul 2018 17:53

Tgt Ion: 56 Resp: 254
Ion Ratio Lower Upper
56 100
55 68.9 57.0 85.4

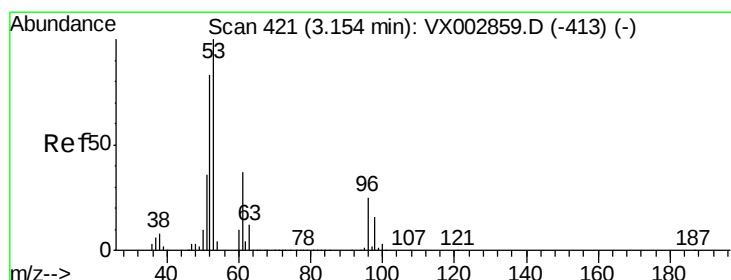
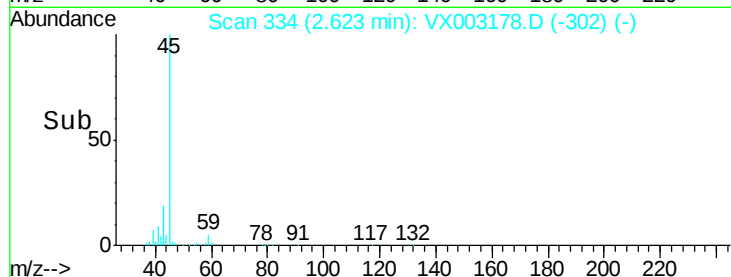
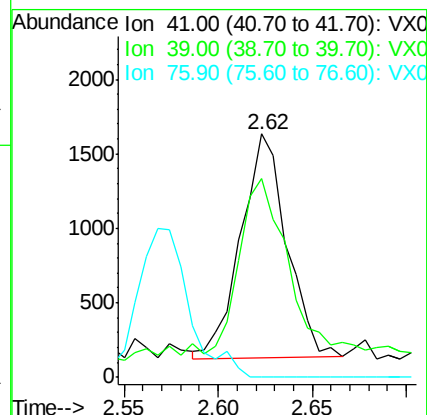
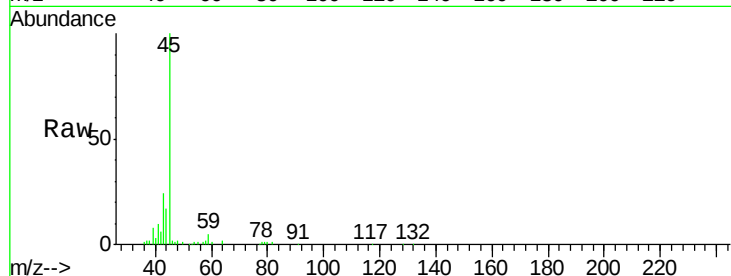




#14
Allvl chloride
Concen: 0.51 ug/l
RT: 2.62 min Scan# 334
Delta R.T. -0.10 min
Lab File: VX003178.D
Acq: 05 Jul 2018 17:53

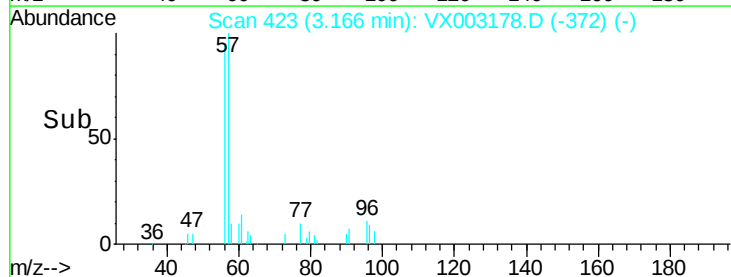
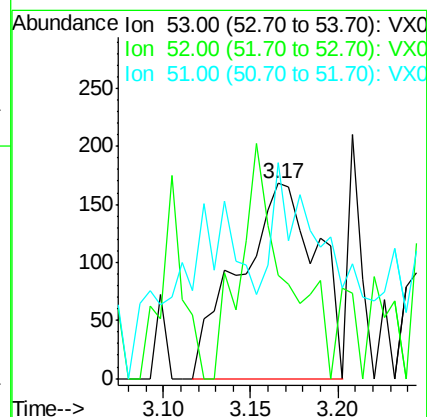
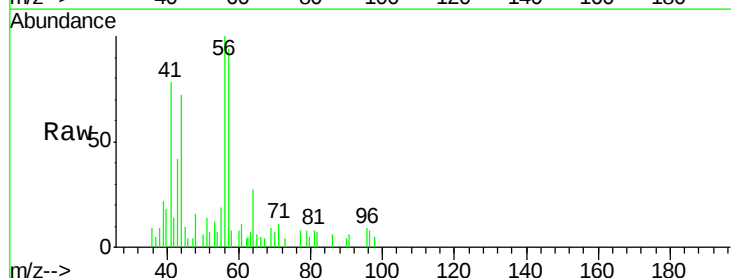
Instrument :
MSVOA_X
ClientSampled :

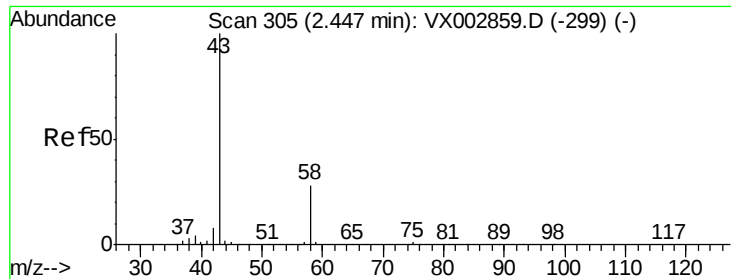
Tot Ion: 41 Resp: 2547
Ion Ratio Lower Upper
41 100
39 85.2 56.8 85.2#
76 0.0 23.8 35.8#



#15
Acrylonitrile
Concen: 0.35 ug/l
RT: 3.17 min Scan# 423
Delta R.T. 0.01 min
Lab File: VX003178.D
Acq: 05 Jul 2018 17:53

Tgt Ion: 53 Resp: 522
Ion Ratio Lower Upper
53 100
52 69.7 66.7 100.1
51 49.6 29.9 44.9#





#16

Acetone

Concen: 6.24 ug/l

RT: 2.45 min Scan# 306

Delta R.T. 0.01 min

Lab File: VX003178.D

Acq: 05 Jul 2018 17:53

Instrument :

MSVOA_X

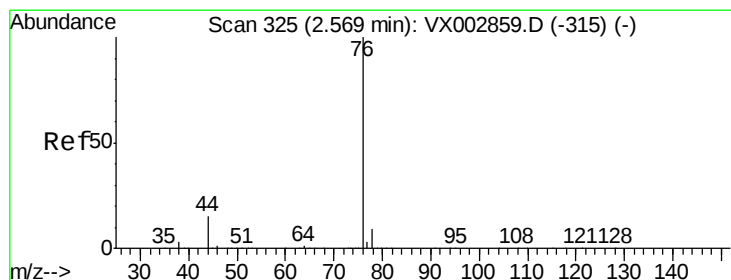
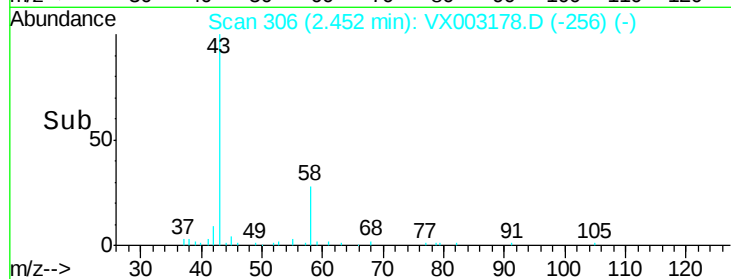
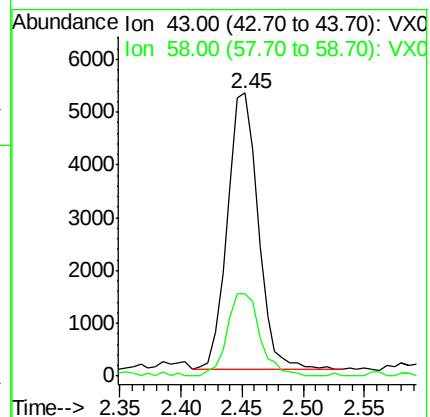
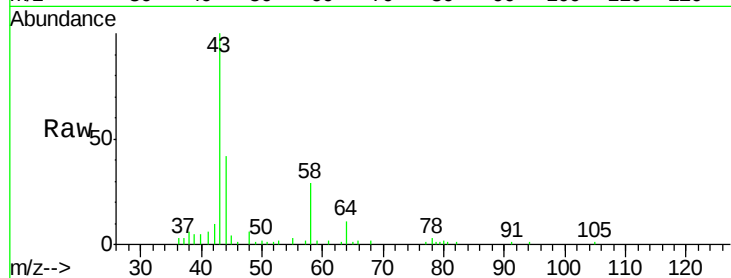
ClientSampleId :

Tot Ion: 43 Resp: 9157

Ion Ratio Lower Upper

43 100

58 29.7 22.1 33.1



#17

Carbon Disulfide

Concen: 0.28 ug/l

RT: 2.57 min Scan# 325

Delta R.T. -0.00 min

Lab File: VX003178.D

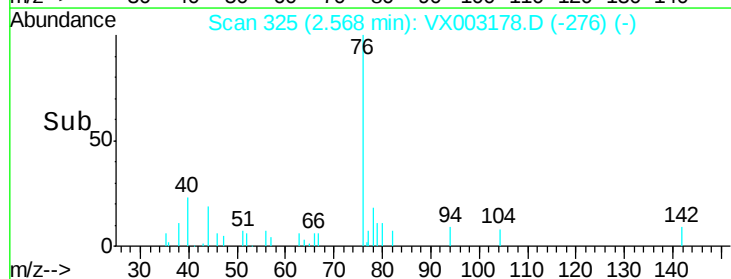
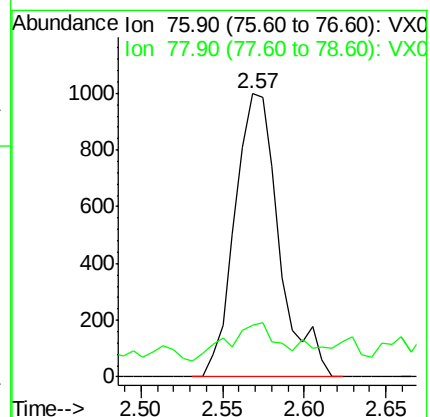
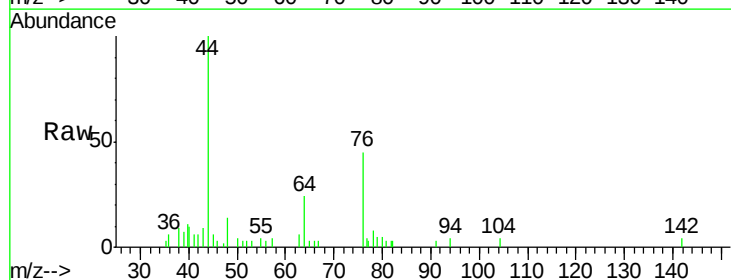
Acq: 05 Jul 2018 17:53

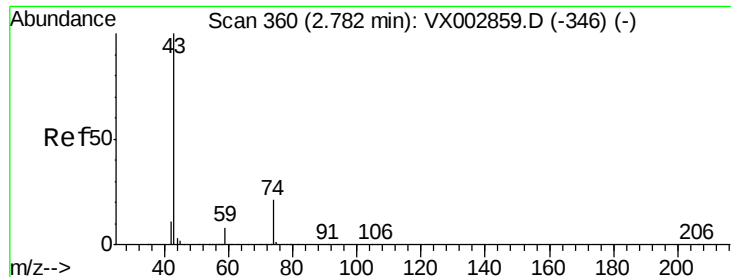
Tgt Ion: 76 Resp: 1893

Ion Ratio Lower Upper

76 100

78 12.9 6.9 10.3#

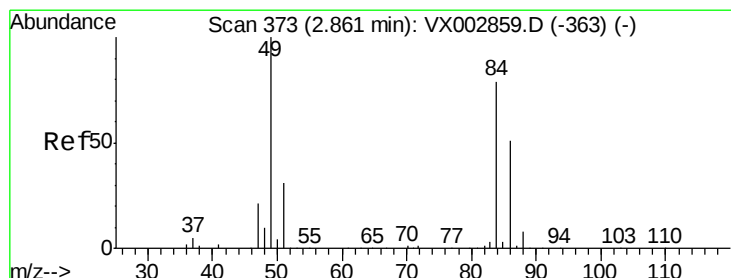
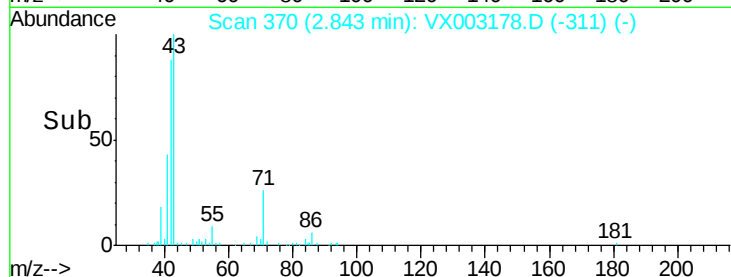
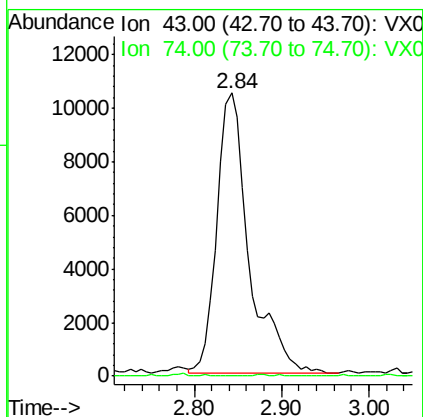
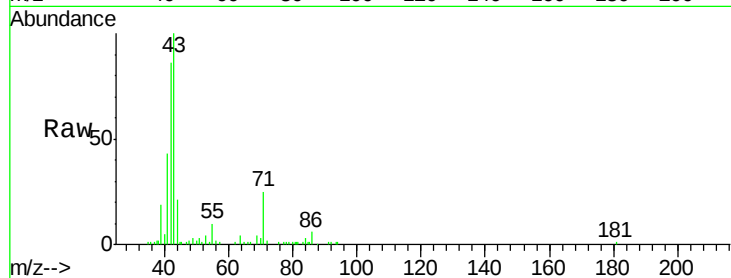




#18
Methvl Acetate
Concen: 6.52 ug/l
RT: 2.84 min Scan# 370
Delta R.T. 0.06 min
Lab File: VX003178.D
Acq: 05 Jul 2018 17:53

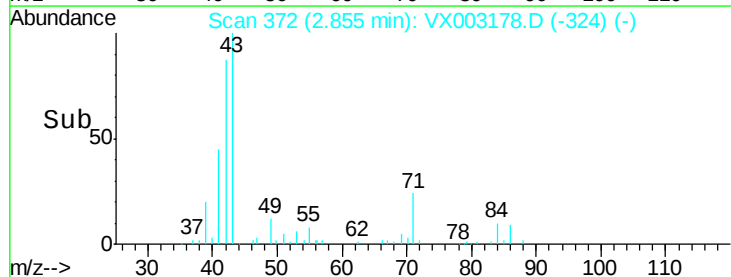
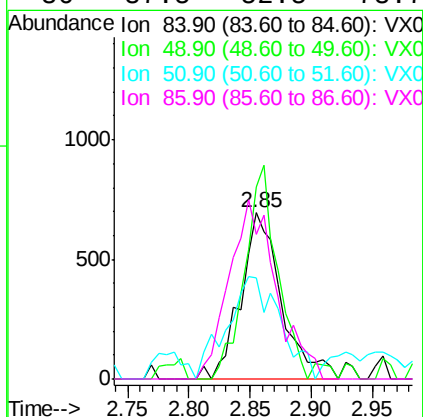
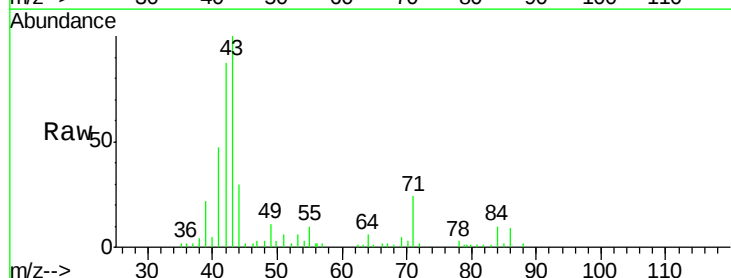
Instrument :
MSVOA_X
ClientSampled :

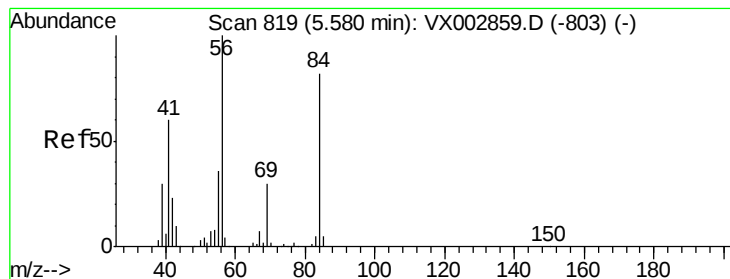
Tot Ion: 43 Resp: 26752
Ion Ratio Lower Upper
43 100
74 0.0 16.7 25.1#



#20
Methylene Chloride
Concen: 0.56 ug/l
RT: 2.85 min Scan# 372
Delta R.T. -0.01 min
Lab File: VX003178.D
Acq: 05 Jul 2018 17:53

Tgt Ion: 84 Resp: 1609
Ion Ratio Lower Upper
84 100
49 115.6 107.8 161.6
51 51.9 32.8 49.2#
86 87.5 52.5 78.7#





#31

Cyclohexane

Concen: 1.32 ug/l

RT: 5.58 min Scan# 819

Delta R.T. -0.00 min

Lab File: VX003178.D

Acq: 05 Jul 2018 17:53

Instrument :
MSVOA_X
ClientSampleId :

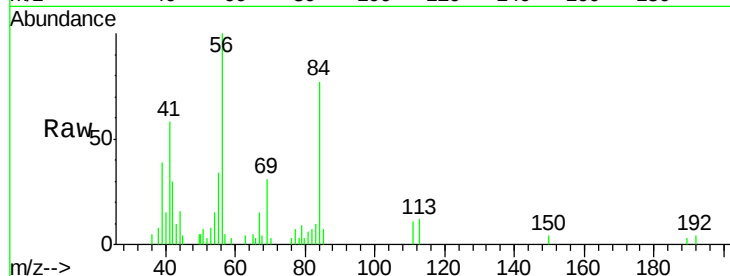
Tot Ion: 56 Resp: 5863

Ion Ratio Lower Upper

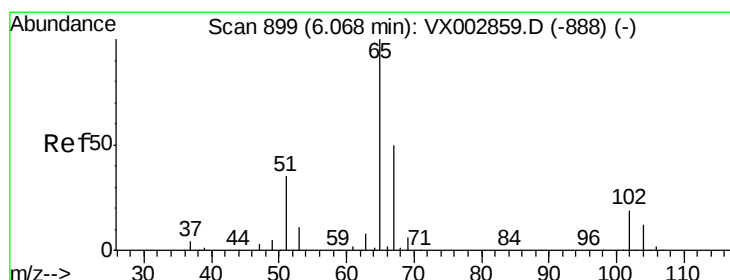
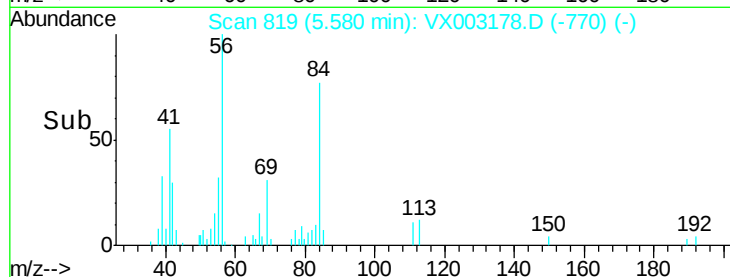
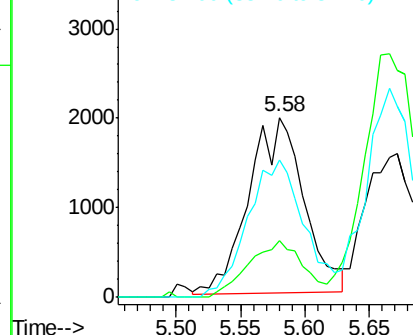
56 100

69 32.3 23.7 35.5

84 79.0 64.1 96.1



Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 45.93 ug/l

RT: 6.07 min Scan# 900

Delta R.T. 0.01 min

Lab File: VX003178.D

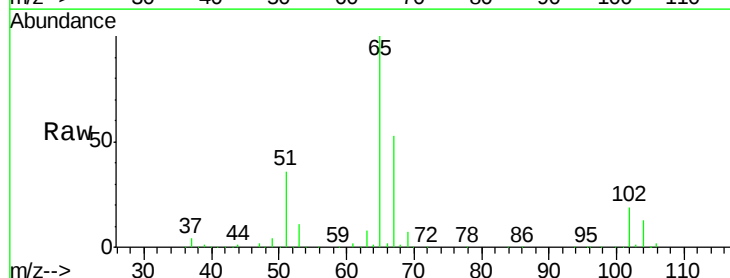
Acq: 05 Jul 2018 17:53

Tgt Ion: 65 Resp: 162770

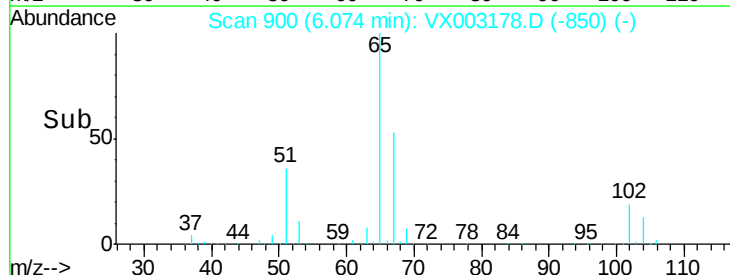
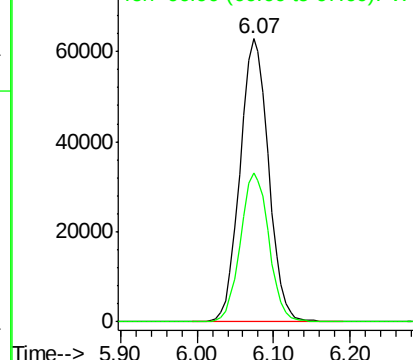
Ion Ratio Lower Upper

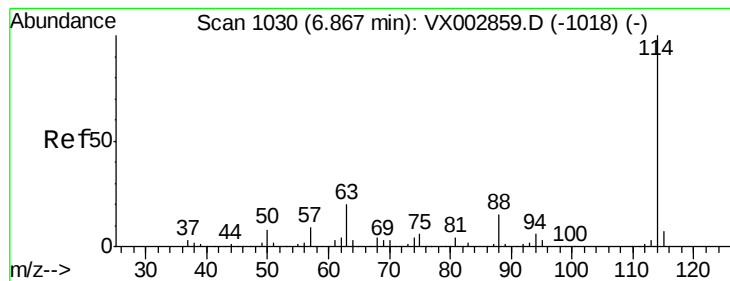
65 100

67 52.3 0.0 102.6



Abundance Ion 64.90 (64.60 to 65.60): VX0
Ion 66.90 (66.60 to 67.60): VX0





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.87 min Scan# 1030

Delta R.T. -0.00 min

Lab File: VX003178.D

Acq: 05 Jul 2018 17:53

Instrument :
MSVOA_X
ClientSampleId :

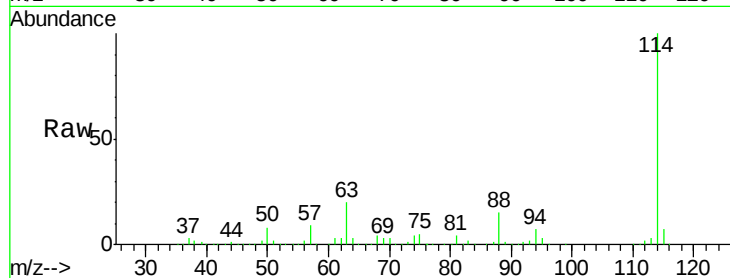
Tot Ion:114 Resp: 356753

Ion Ratio Lower Upper

114 100

63 20.4 0.0 41.4

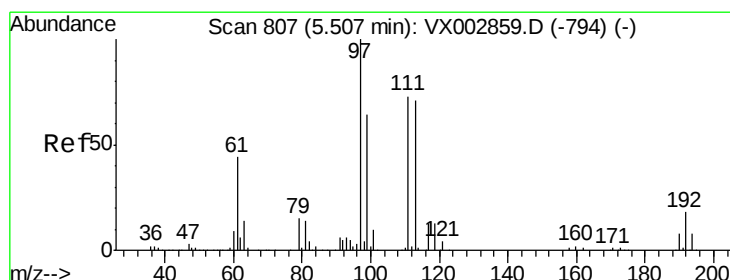
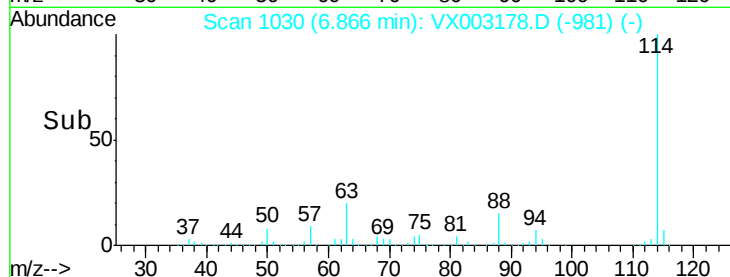
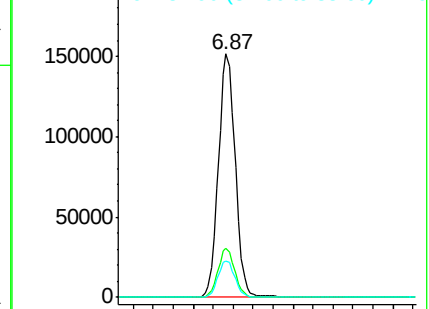
88 14.9 0.0 30.0



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: 47.68 ug/l

RT: 5.51 min Scan# 807

Delta R.T. -0.00 min

Lab File: VX003178.D

Acq: 05 Jul 2018 17:53

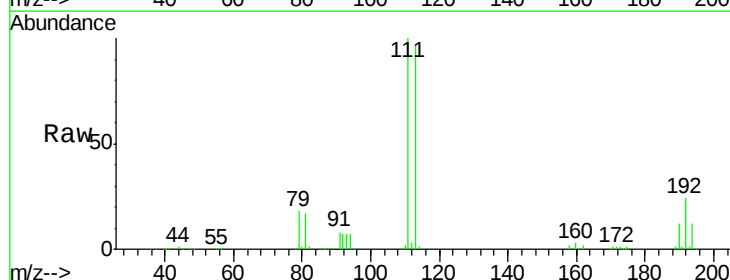
Tgt Ion:113 Resp: 134717

Ion Ratio Lower Upper

113 100

111 103.2 81.4 122.0

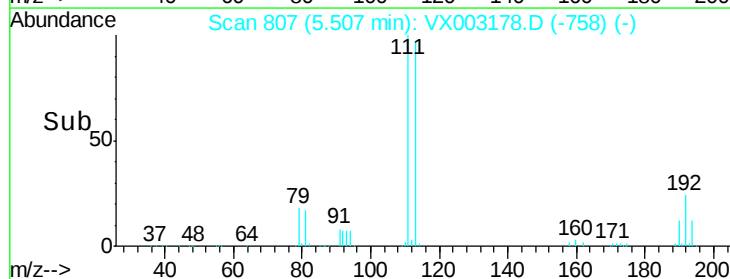
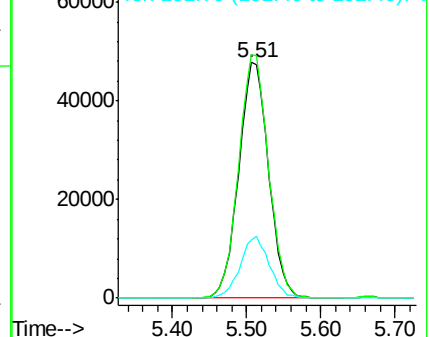
192 25.4 19.1 28.7

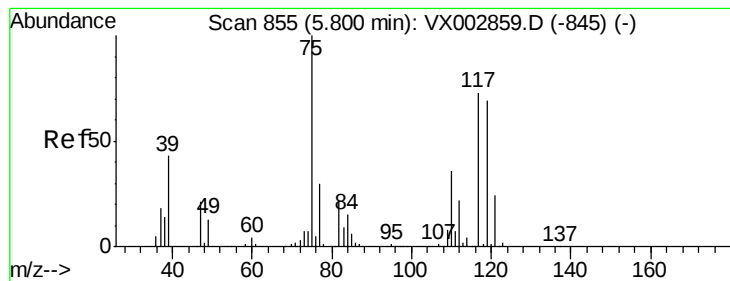


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.23 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.13 min

Lab File: VX003178.D

Acq: 05 Jul 2018 17:53

Instrument :
MSVOA_X
ClientSampleId :

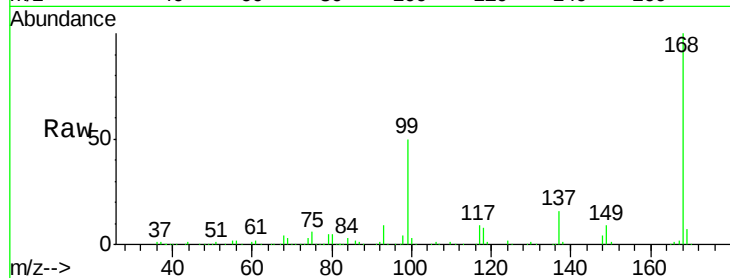
Tot Ion: 75 Resp: 16544

Ion Ratio Lower Upper

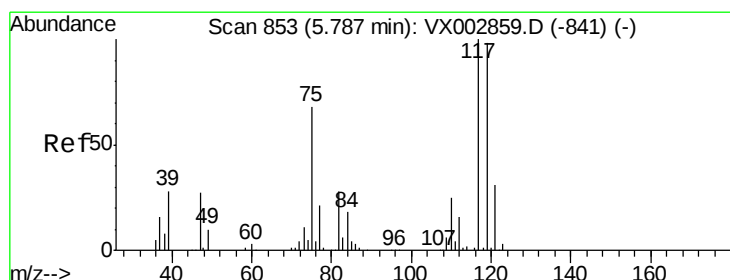
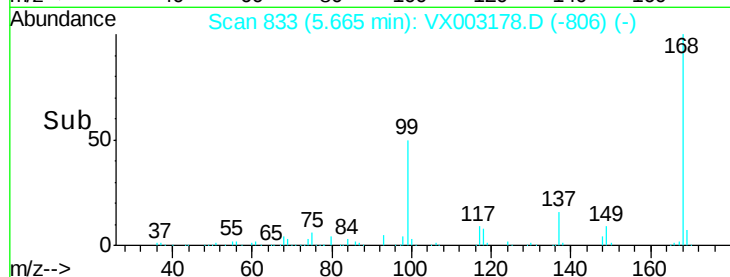
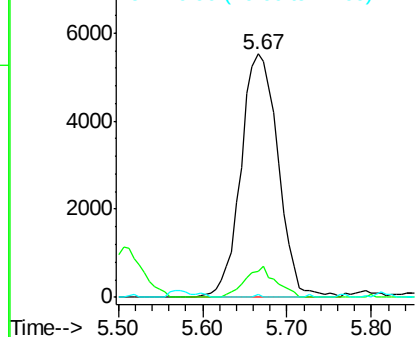
75 100

110 10.4 18.1 54.4#

77 0.1 24.3 36.5#



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: 5.30 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX003178.D

Acq: 05 Jul 2018 17:53

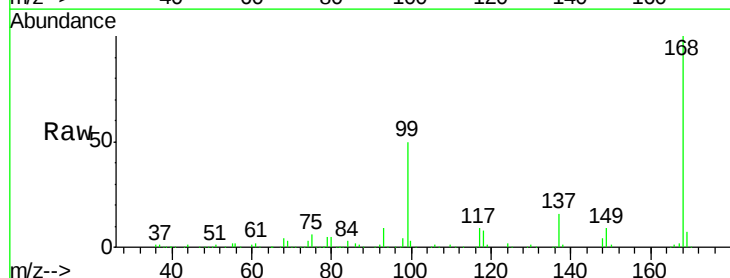
Tgt Ion: 117 Resp: 22764

Ion Ratio Lower Upper

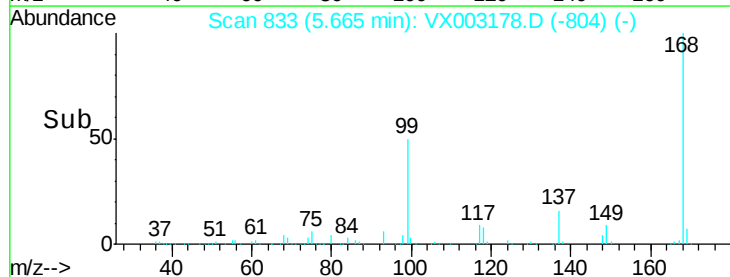
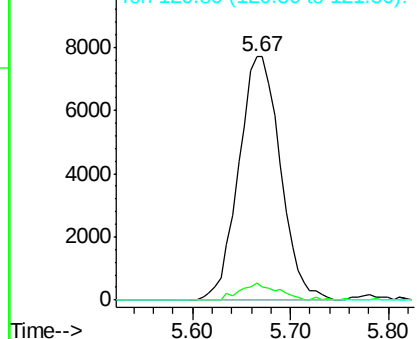
117 100

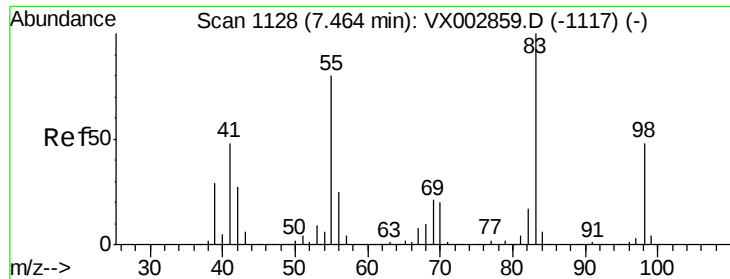
119 7.2 77.4 116.0#

121 0.0 24.4 36.6#



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

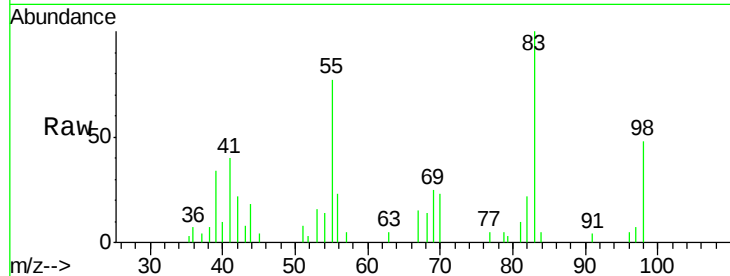




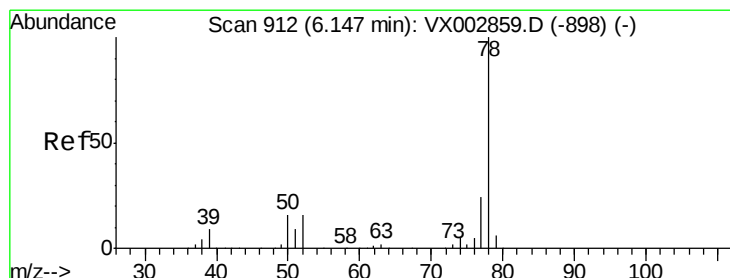
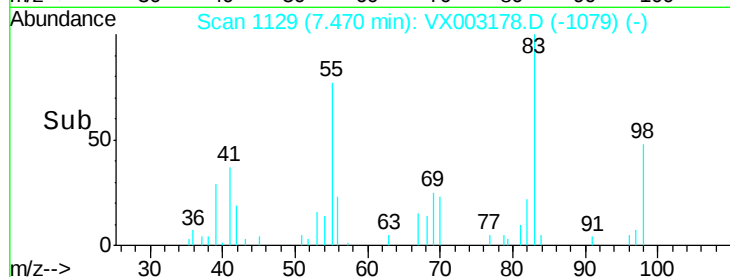
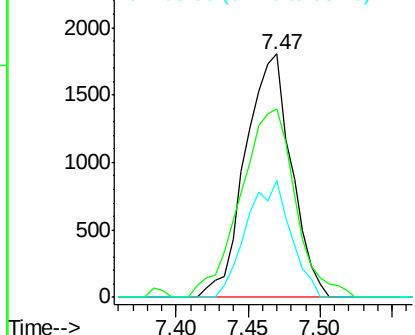
#39
Methvlcvclohexane
Concen: 0.88 ug/l
RT: 7.47 min Scan# 1129
Delta R.T. 0.01 min
Lab File: VX003178.D
Acq: 05 Jul 2018 17:53

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 83 Resp: 3995
Ion Ratio Lower Upper
83 100
55 77.4 65.4 98.0
98 48.3 37.4 56.0

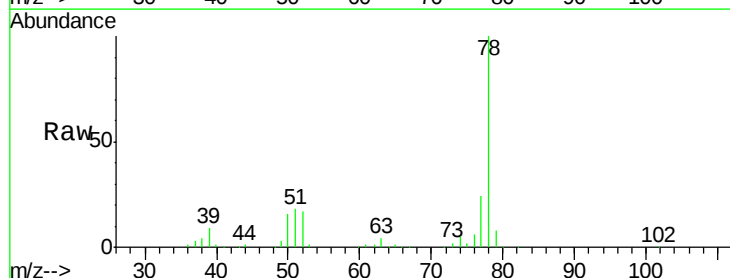


Abundance Ion 83.00 (82.70 to 83.70): VX0
Ion 55.00 (54.70 to 55.70): VX0
Ion 98.00 (97.70 to 98.70): VX0

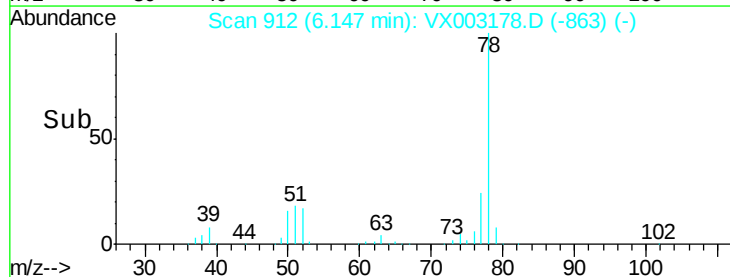
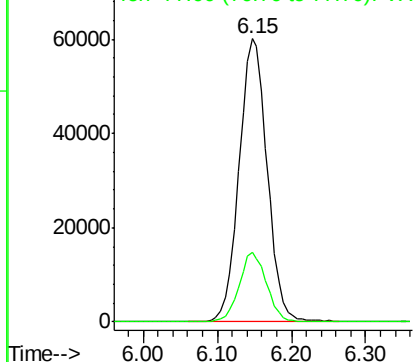


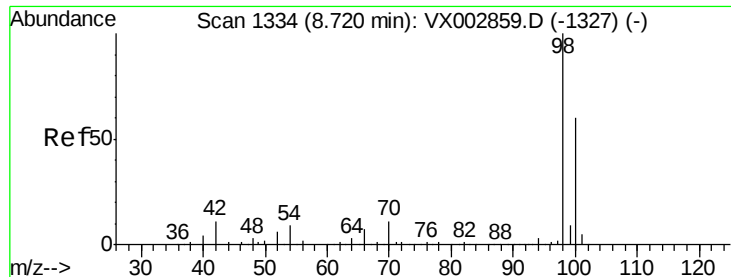
#40
Benzene
Concen: 13.98 ug/l
RT: 6.15 min Scan# 912
Delta R.T. -0.00 min
Lab File: VX003178.D
Acq: 05 Jul 2018 17:53

Tgt Ion: 78 Resp: 158873
Ion Ratio Lower Upper
78 100
77 24.4 19.1 28.7



Abundance Ion 78.00 (77.70 to 78.70): VX0
Ion 77.00 (76.70 to 77.70): VX0





#50

Toluene-d8

Concen: 49.21 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX003178.D

Acq: 05 Jul 2018 17:53

Instrument :

MSVOA_X

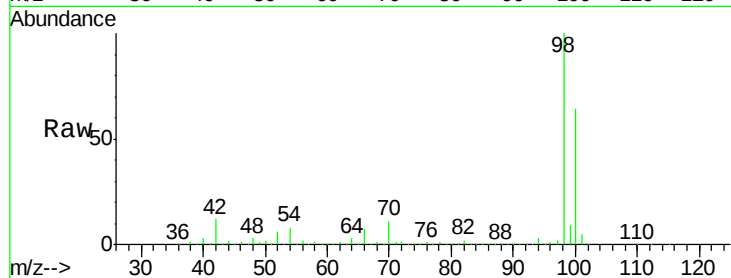
ClientSampleId :

Tot Ion: 98 Resp: 507656

Ion Ratio Lower Upper

98 100

100 63.7 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

8.72

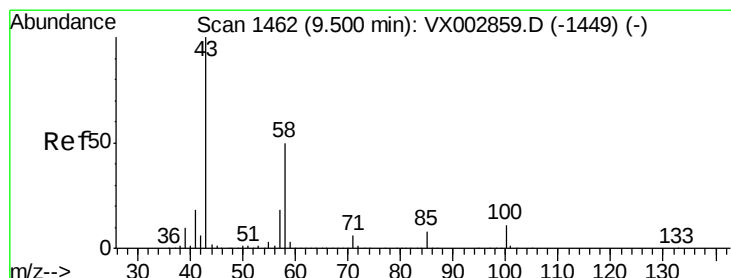
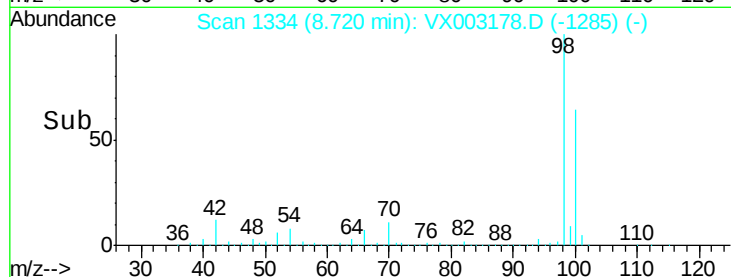
300000

200000

100000

0

Time-->



#59

2-Hexanone

Concen: 0.57 ug/l

RT: 9.52 min Scan# 1466

Delta R.T. 0.02 min

Lab File: VX003178.D

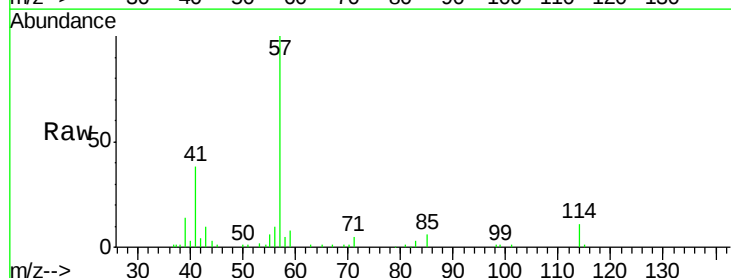
Acq: 05 Jul 2018 17:53

Tgt Ion: 43 Resp: 1907

Ion Ratio Lower Upper

43 100

58 51.0 24.6 73.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

3000

2500

2000

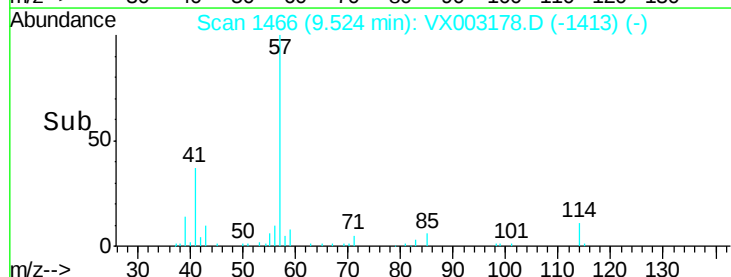
1500

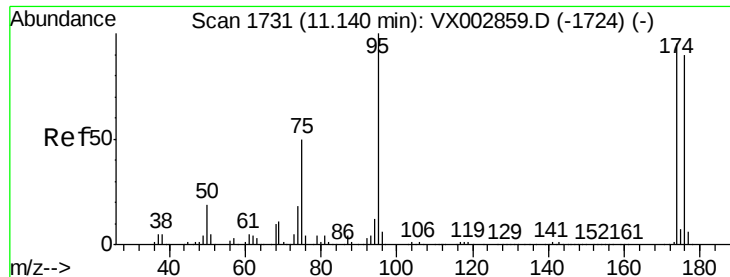
1000

500

0

Time-->

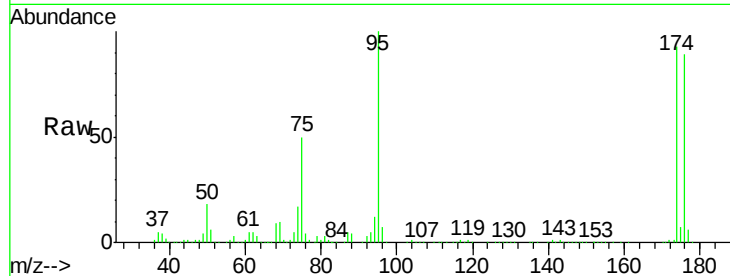




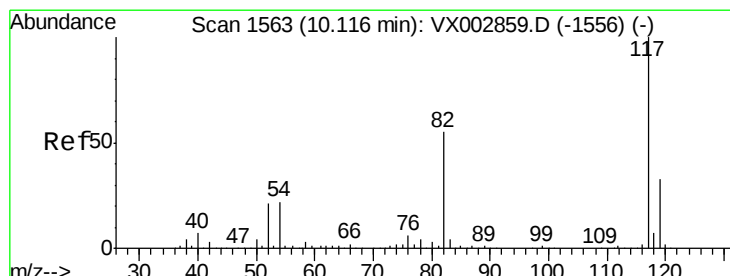
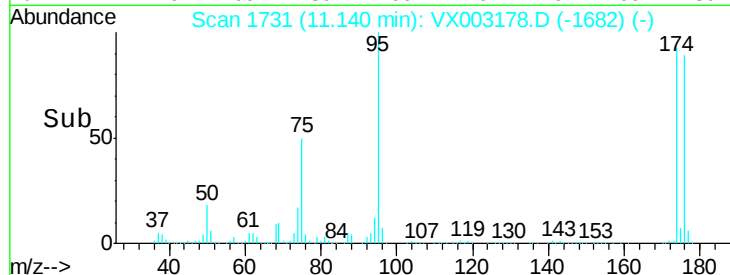
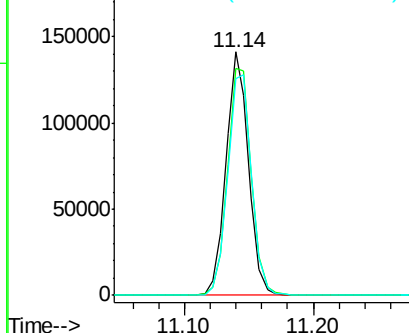
#62
4-Bromofluorobenzene
Concen: 43.69 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. -0.00 min
Lab File: VX003178.D
Acq: 05 Jul 2018 17:53

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 95 Resp: 173815
Ion Ratio Lower Upper
95 100
174 98.5 0.0 187.4
176 96.1 0.0 181.0

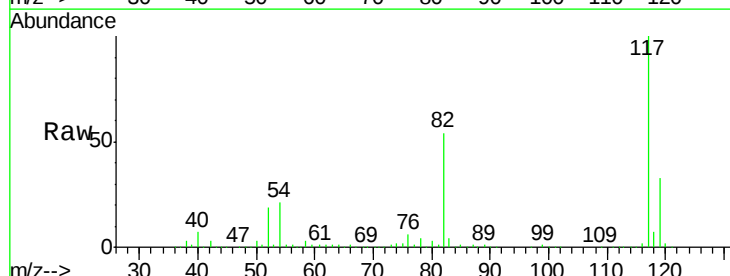


Abundance Ion 94.90 (94.60 to 95.60): VX0
Ion 173.80 (173.50 to 174.50): V
Ion 175.80 (175.50 to 176.50): V

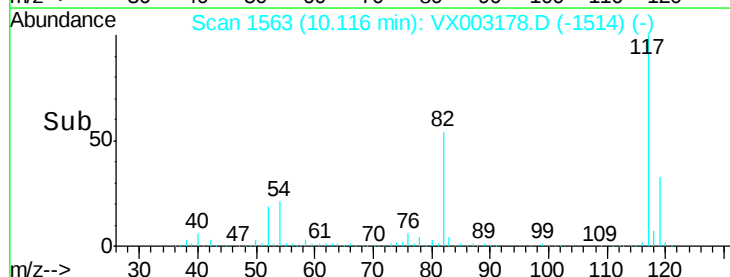
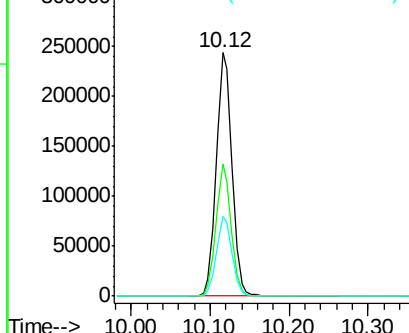


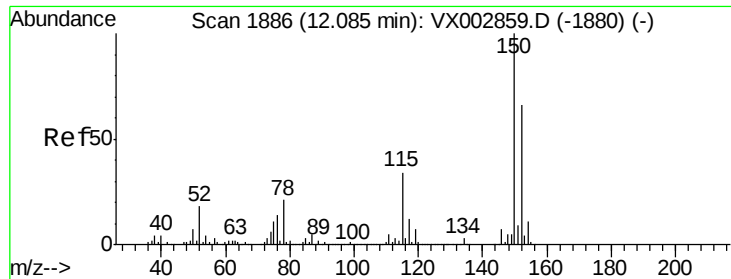
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX003178.D
Acq: 05 Jul 2018 17:53

Tgt Ion: 117 Resp: 338252
Ion Ratio Lower Upper
117 100
82 54.3 45.0 67.4
119 32.5 25.8 38.6



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



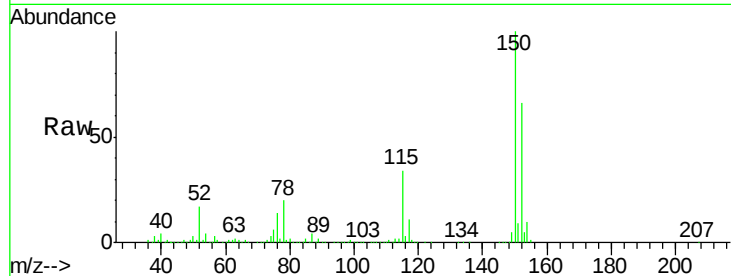


#72

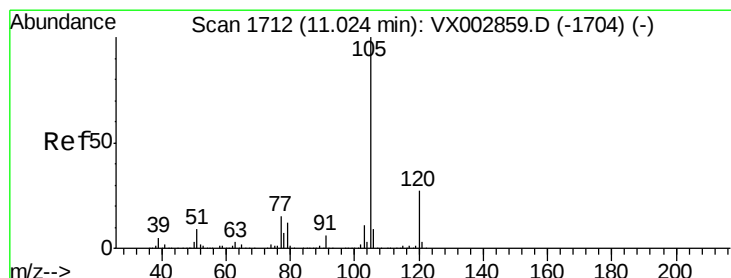
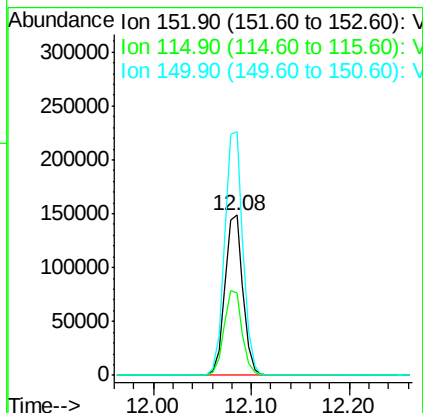
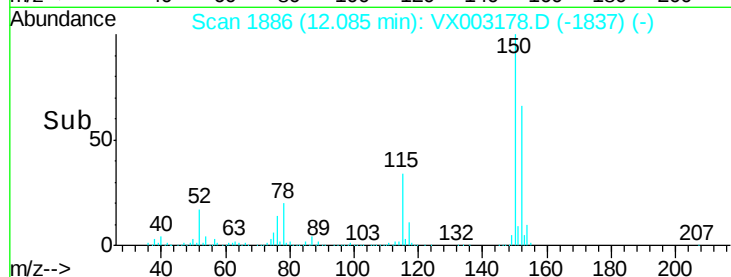
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.08 min Scan# 1886
Delta R.T. -0.00 min
Lab File: VX003178.D
Acq: 05 Jul 2018 17:53

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:152 Resp: 189000
Ion Ratio Lower Upper
152 100
115 53.1 40.1 120.2
150 154.0 0.0 347.2



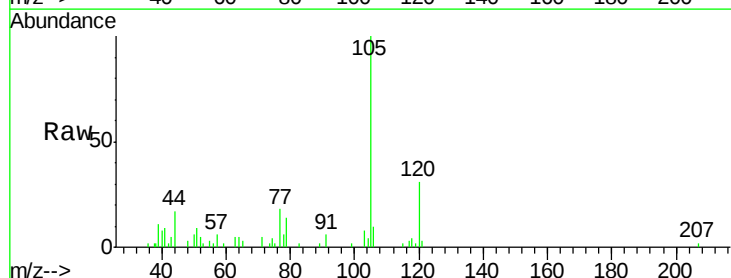
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



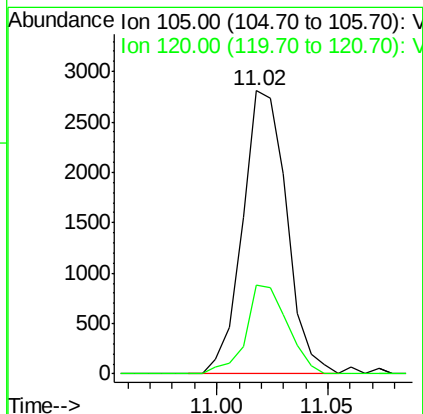
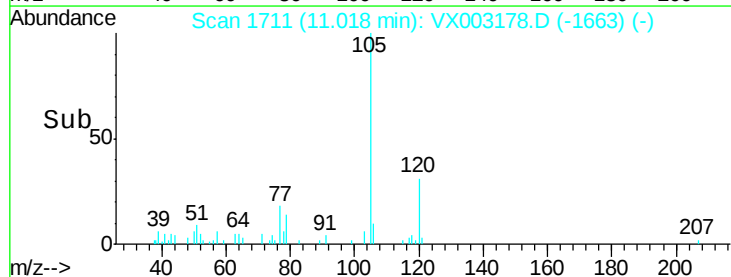
#73

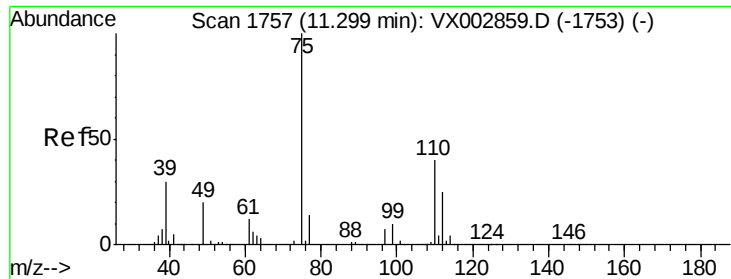
Isopropylbenzene
Concen: 0.30 ug/l
RT: 11.02 min Scan# 1711
Delta R.T. -0.01 min
Lab File: VX003178.D
Acq: 05 Jul 2018 17:53

Tgt Ion:105 Resp: 3872
Ion Ratio Lower Upper
105 100
120 29.6 13.5 40.4



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V

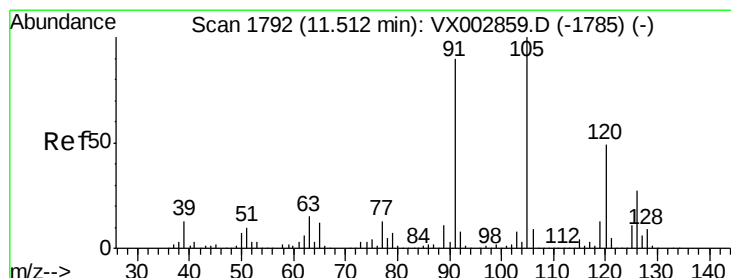
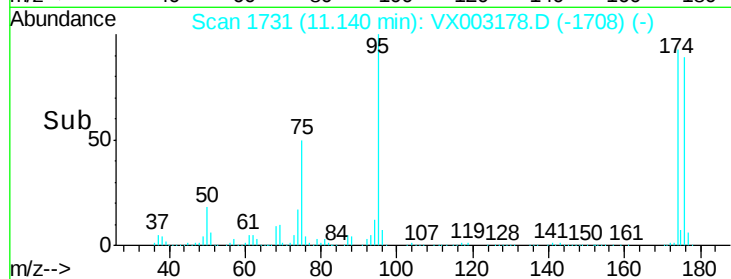
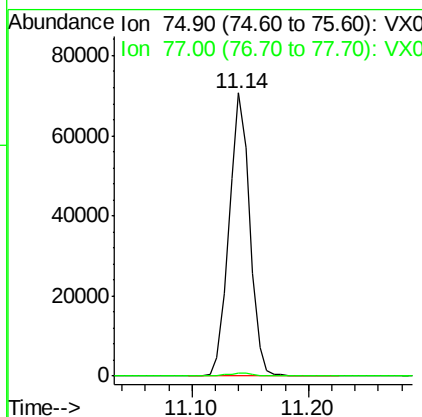
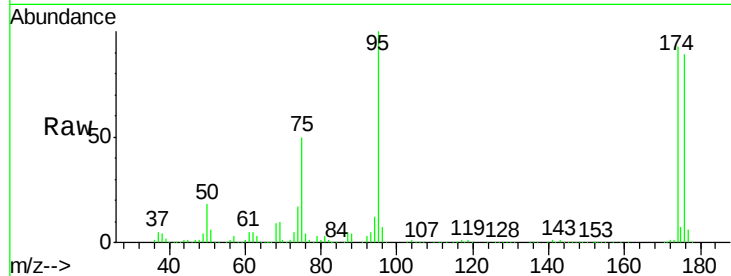




#76
 1,2,3-Trichloropropane
 Concen: 25.57 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. -0.16 min
 Lab File: VX003178.D
 Acq: 05 Jul 2018 17:53

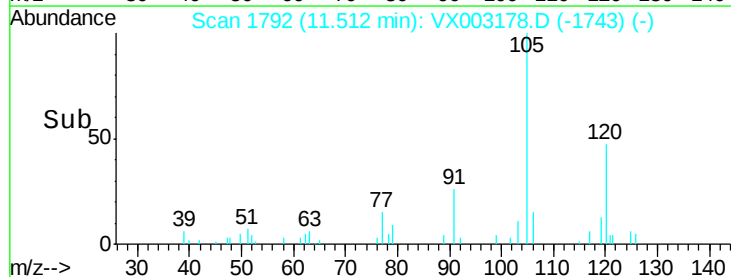
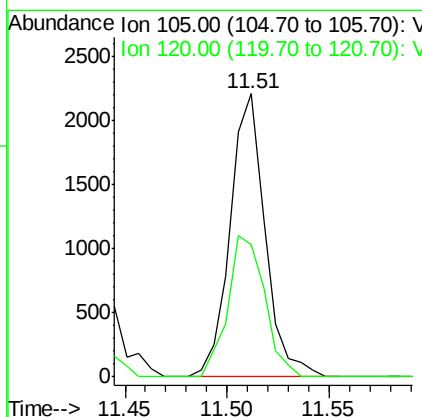
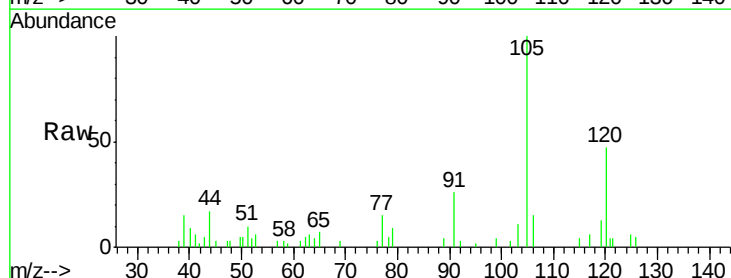
Instrument :
 MSVOA_X
 ClientSampleId :

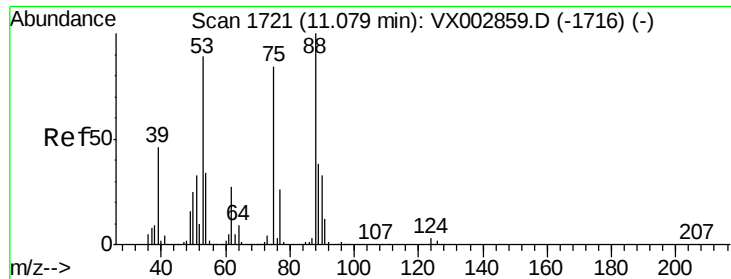
Tot Ion: 75 Resp: 87529
 Ion Ratio Lower Upper
 75 100
 77 1.4 22.8 68.3#



#80
 1,3,5-Trimethylbenzene
 Concen: 0.24 ug/l
 RT: 11.51 min Scan# 1792
 Delta R.T. -0.00 min
 Lab File: VX003178.D
 Acq: 05 Jul 2018 17:53

Tgt Ion: 105 Resp: 2622
 Ion Ratio Lower Upper
 105 100
 120 52.4 24.4 73.4





#81

trans-1,4-Dichloro-2-butene

Concen: 72.56 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX003178.D

Acq: 05 Jul 2018 17:53

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion: 75 Resp: 87529

Ion Ratio Lower Upper

75 100

53 0.3 86.8 130.2#

89 0.0 38.2 57.2#

