

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX062018\
 Data File : VX002748.D
 Acq On : 20 Jun 2018 18:07
 Operator : JC/MD
 Sample : J3597-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 21 04:00:19 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X061518W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 16 01:37:33 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	229237	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	328145	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	303735	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	176539	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	155063	44.51	ug/l	0.00
Spiked Amount			Recovery	=	89.02%	
35) Dibromofluoromethane	5.51	113	126631	48.35	ug/l	0.00
Spiked Amount			Recovery	=	96.70%	
50) Toluene-d8	8.72	98	461743	46.43	ug/l	0.00
Spiked Amount			Recovery	=	92.86%	
62) 4-Bromofluorobenzene	11.14	95	164039	43.53	ug/l	0.00
Spiked Amount			Recovery	=	87.06%	

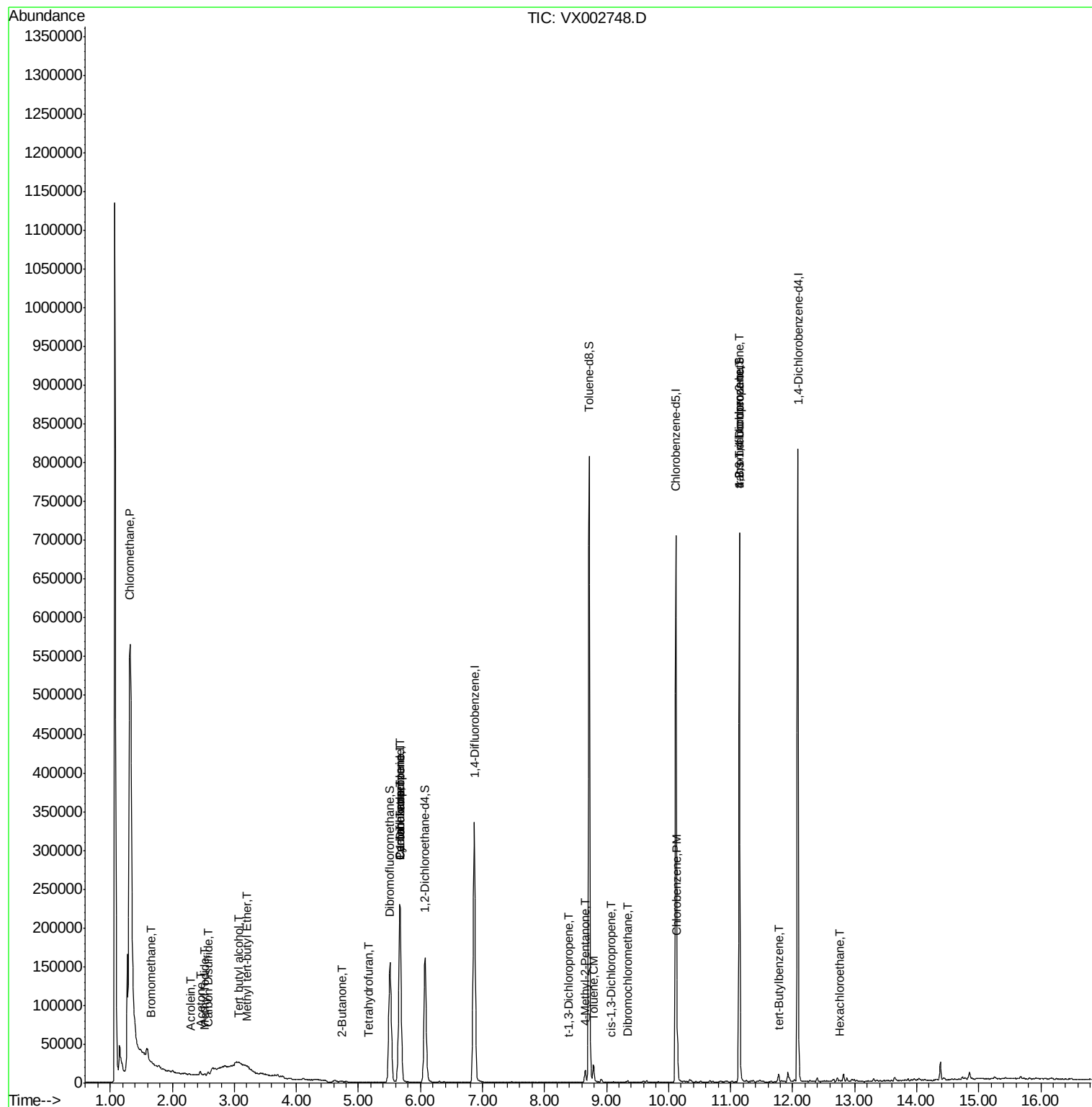
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	27589	9.53	ug/l #	48
5) Bromomethane	1.66	94	1620	0.89	ug/l	90
10) Methyl Iodide	2.51	142	2545	5.80	ug/l	98
11) Tert butyl alcohol	3.07	59	808	1.12	ug/l #	87
13) Acrolein	2.30	56	274	7.65	ug/l #	56
16) Acetone	2.45	43	4999	3.25	ug/l	93
17) Carbon Disulfide	2.57	76	6627	1.09	ug/l #	91
19) Methyl tert-butyl Ether	3.20	73	2020	0.21	ug/l #	86
25) 2-Butanone	4.73	43	2108	1.04	ug/l	93
29) Tetrahydrofuran	5.17	42	313	0.24	ug/l #	42
31) Cyclohexane	5.67	56	4776	1.16	ug/l #	9
36) 1,1-Dichloropropene	5.67	75	15690	4.50	ug/l #	41
38) Carbon Tetrachloride	5.67	117	21179	6.10	ug/l #	15
51) 4-Methyl-2-Pentanone	8.66	43	8914	2.12	ug/l	96
52) Toluene	8.79	92	7193	1.08	ug/l	97
53) t-1,3-Dichloropropene	8.38	75	25	2.40	ug/l #	43
54) cis-1,3-Dichloropropene	9.06	75	70	3.23	ug/l #	64
60) Dibromochloromethane	9.34	129	195	3.82	ug/l #	11
65) Chlorobenzene	10.14	112	19586	2.63	ug/l	97
76) 1,2,3-Trichloropropane	11.14	75	86343	25.92	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.14	75	86343	80.18	ug/l #	7
83) tert-Butylbenzene	11.77	119	3332	0.35	ug/l	91
90) Hexachloroethane	12.76	117	201	2.74	ug/l #	1

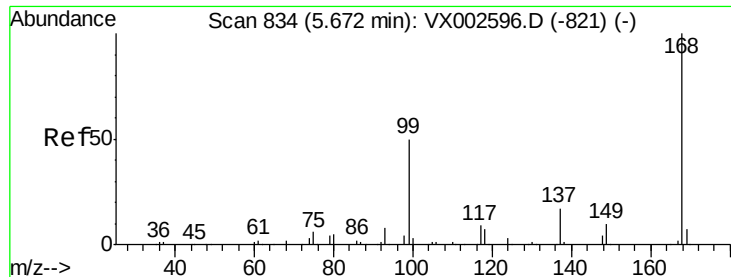
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX062018\
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X061518W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 16 01:37:33 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.01 min

Lab File: VX002748.D

Acq: 20 Jun 2018 18:07

Instrument :

MSVOA_X

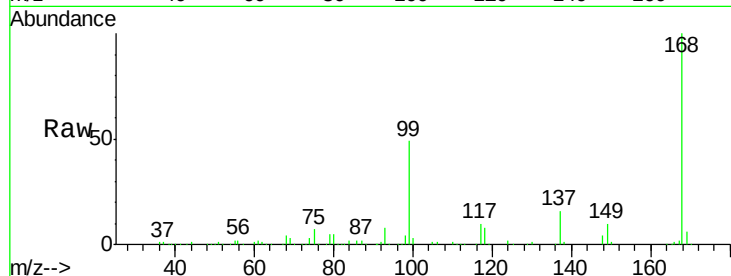
ClientSampleId :

Tot Ion:168 Resp: 229237

Ion Ratio Lower Upper

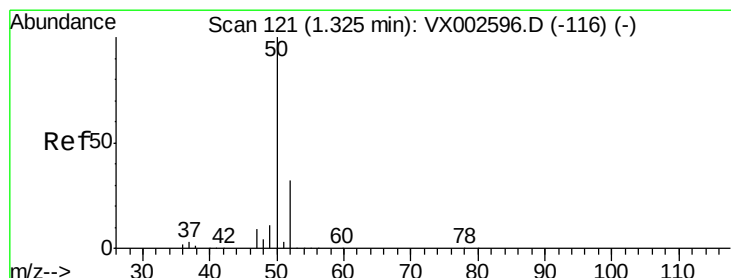
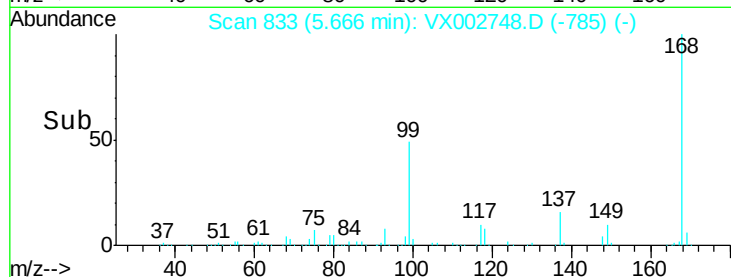
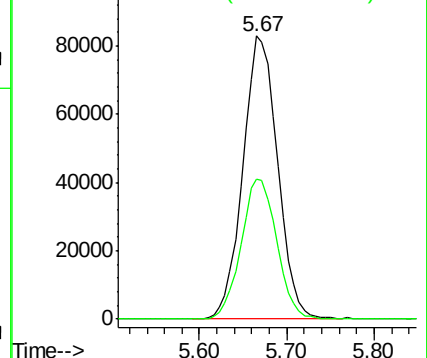
168 100

99 49.2 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 9.53 ug/l

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX002748.D

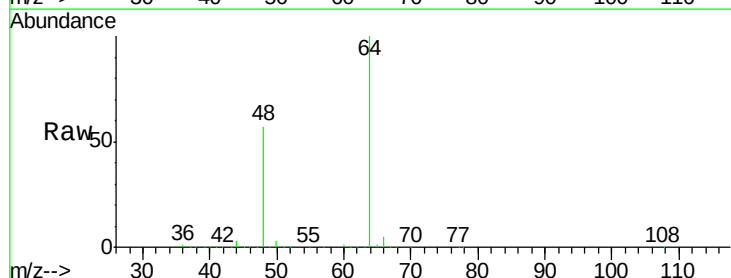
Acq: 20 Jun 2018 18:07

Tgt Ion: 50 Resp: 27589

Ion Ratio Lower Upper

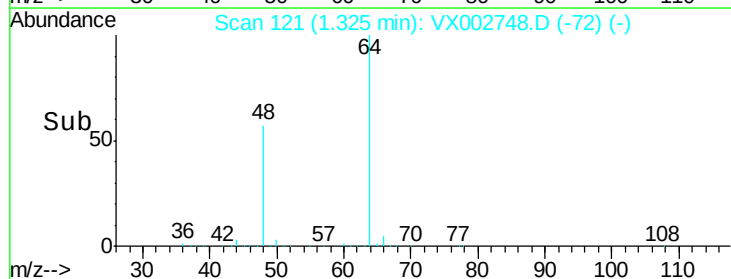
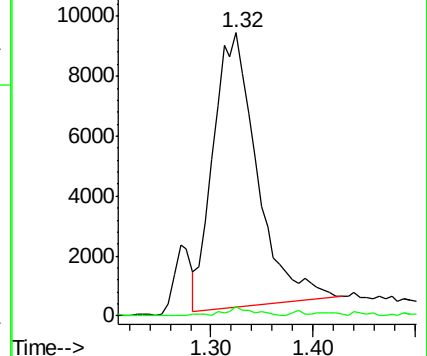
50 100

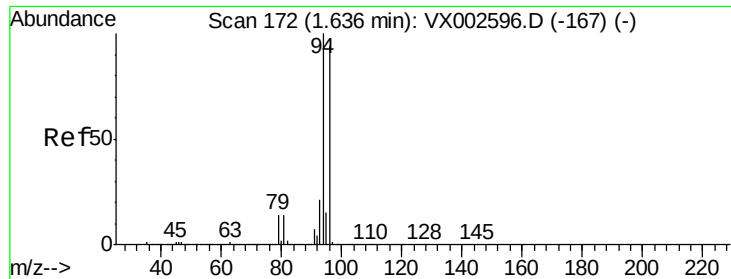
52 3.2 25.7 38.5#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: 0.89 ug/l

RT: 1.66 min Scan# 176

Delta R.T. 0.02 min

Lab File: VX002748.D

Acq: 20 Jun 2018 18:07

Instrument :

MSVOA_X

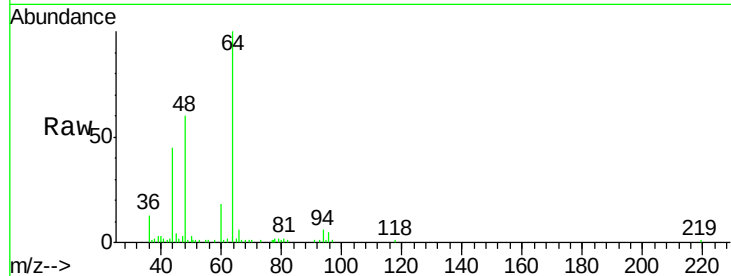
ClientSampleId :

Tot Ion: 94 Resp: 1620

Ion Ratio Lower Upper

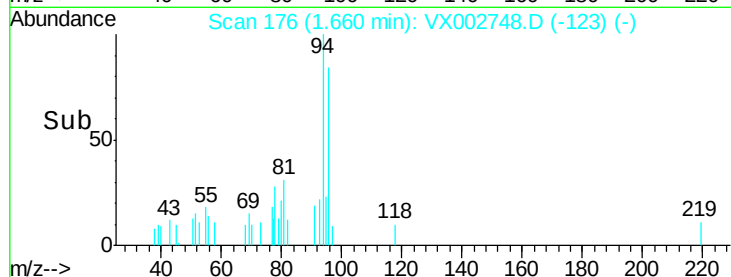
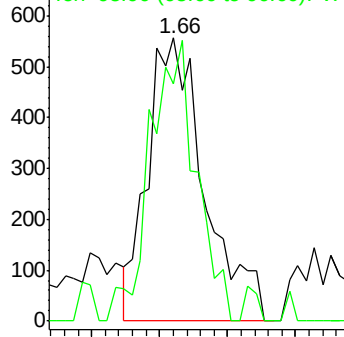
94 100

96 83.7 74.9 112.3

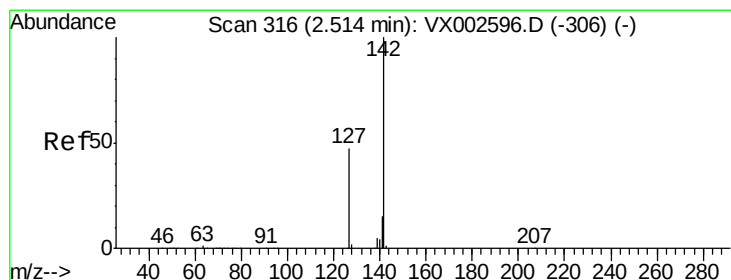


Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



Time-->



#10

Methyl Iodide

Concen: 5.80 ug/l

RT: 2.51 min Scan# 316

Delta R.T. 0.00 min

Lab File: VX002748.D

Acq: 20 Jun 2018 18:07

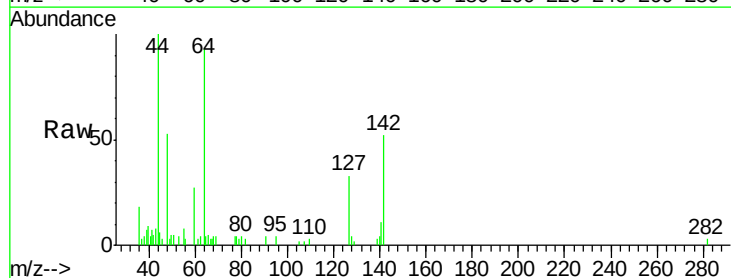
Tgt Ion:142 Resp: 2545

Ion Ratio Lower Upper

142 100

127 46.0 36.6 55.0

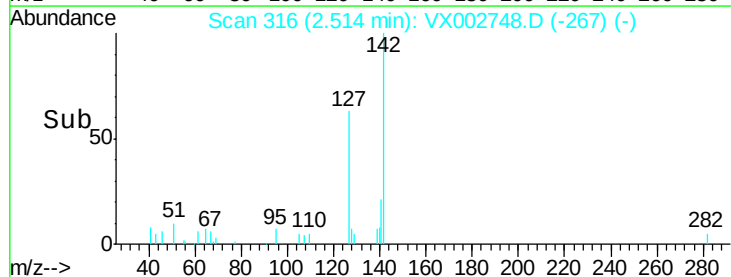
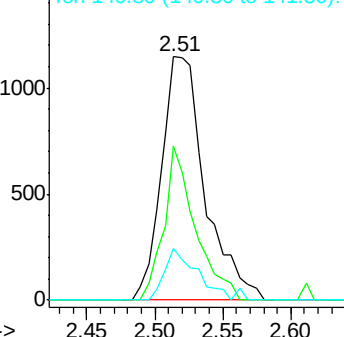
141 16.6 11.3 16.9



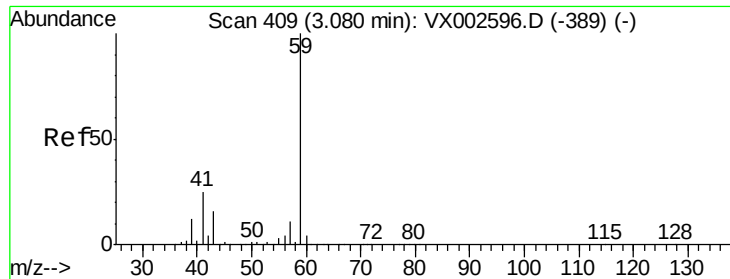
Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



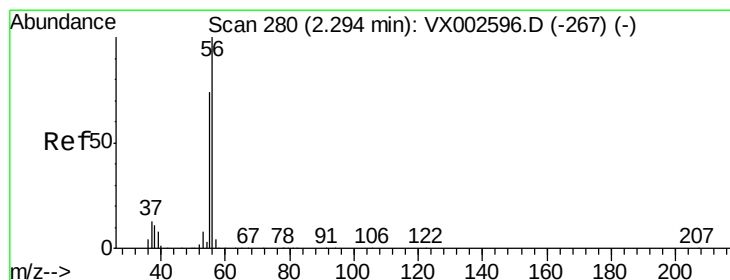
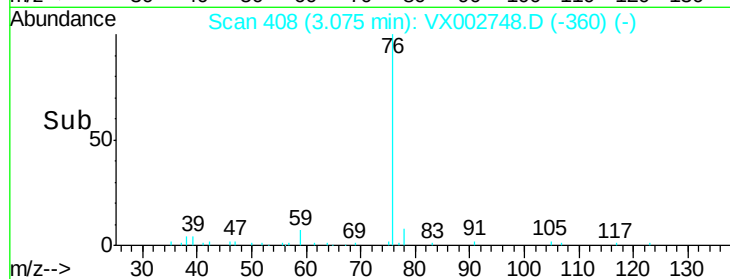
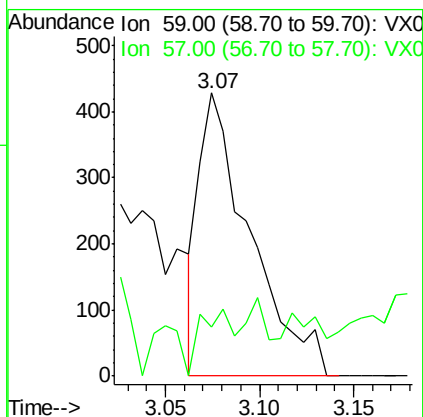
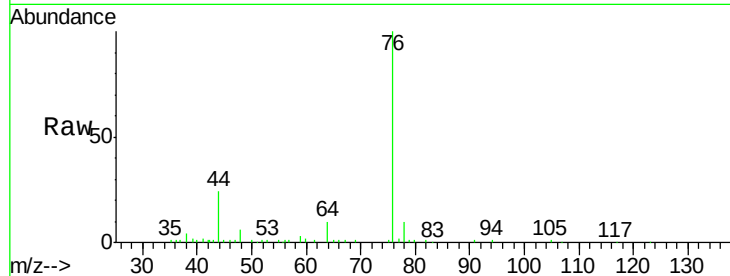
Time-->



#11
Tert butyl alcohol
Concen: 1.12 ug/l
RT: 3.07 min Scan# 408
Delta R.T. -0.01 min
Lab File: VX002748.D
Acq: 20 Jun 2018 18:07

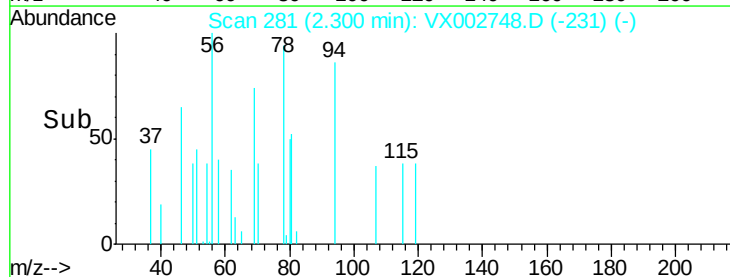
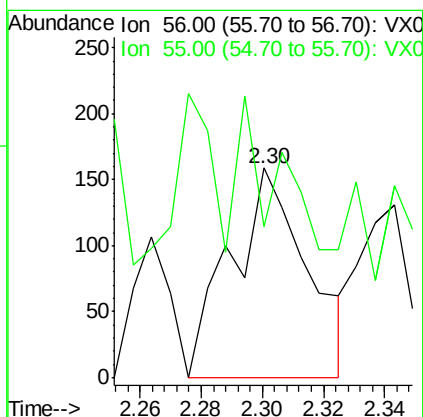
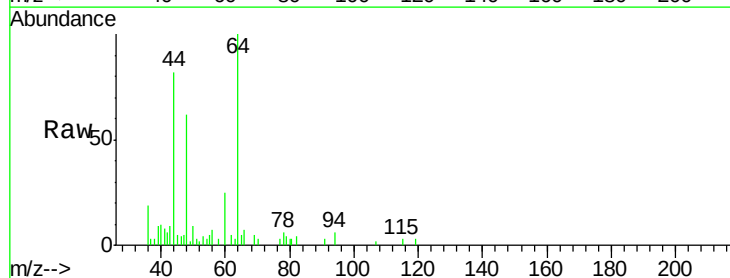
Instrument :
MSVOA_X
ClientSampled :

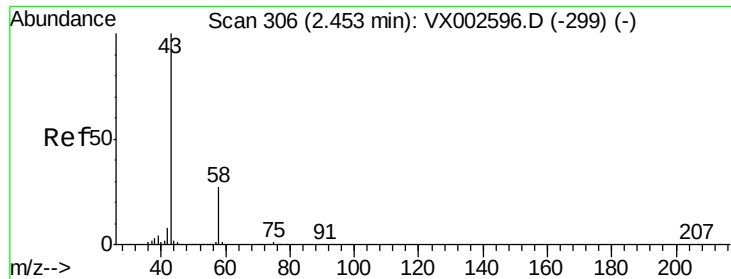
Tot Ion: 59 Resp: 808
Ion Ratio Lower Upper
59 100
57 15.0 8.2 12.2#



#13
Acrolein
Concen: 7.65 ug/l
RT: 2.30 min Scan# 281
Delta R.T. 0.01 min
Lab File: VX002748.D
Acq: 20 Jun 2018 18:07

Tgt Ion: 56 Resp: 274
Ion Ratio Lower Upper
56 100
55 35.0 57.0 85.4#





#16

Acetone

Concen: 3.25 ug/l

RT: 2.45 min Scan# 306

Delta R.T. 0.00 min

Lab File: VX002748.D

Acq: 20 Jun 2018 18:07

Instrument :

MSVOA_X

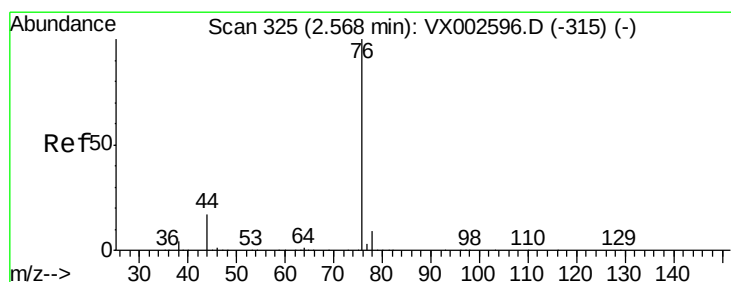
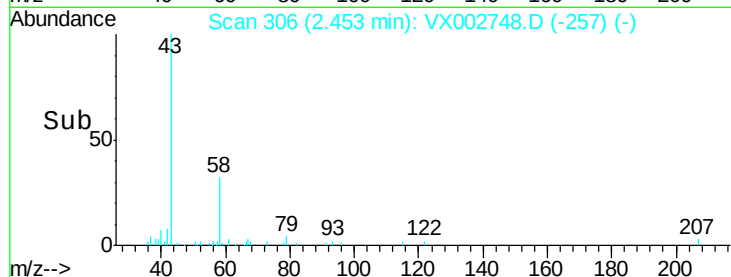
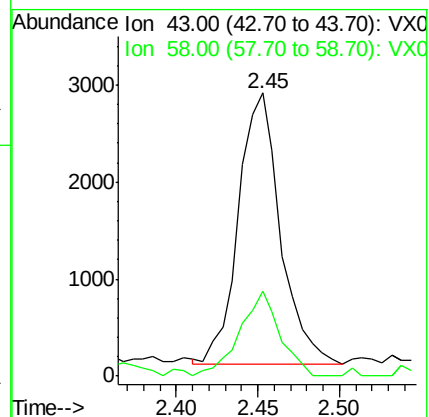
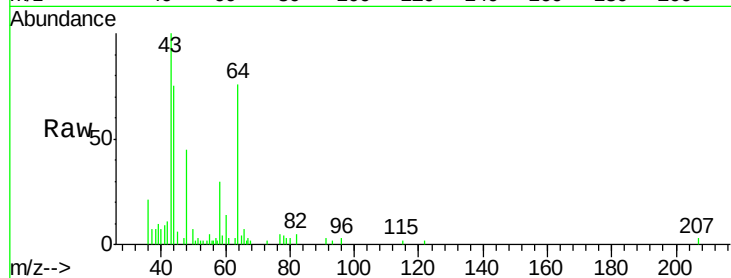
ClientSampleId :

Tot Ion: 43 Resp: 4999

Ion Ratio Lower Upper

43 100

58 31.4 22.1 33.1



#17

Carbon Disulfide

Concen: 1.09 ug/l

RT: 2.57 min Scan# 326

Delta R.T. 0.01 min

Lab File: VX002748.D

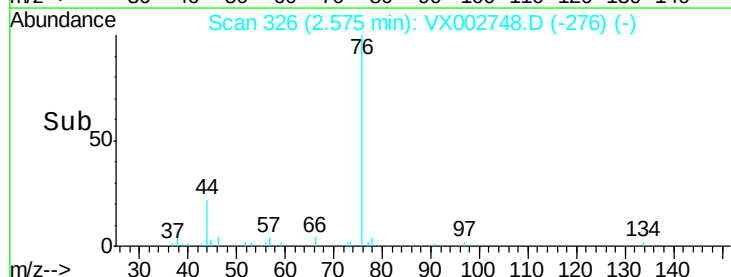
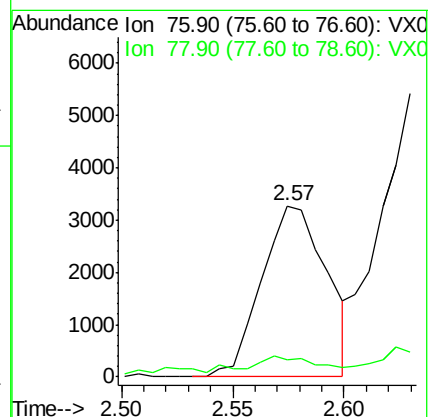
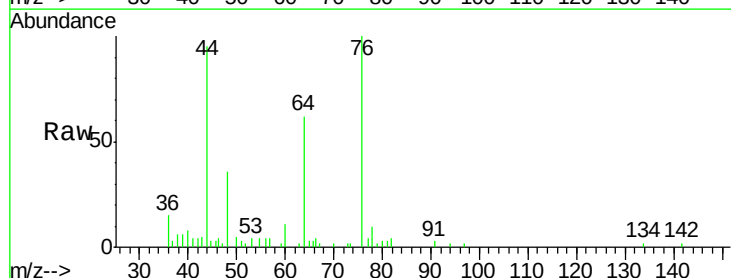
Acq: 20 Jun 2018 18:07

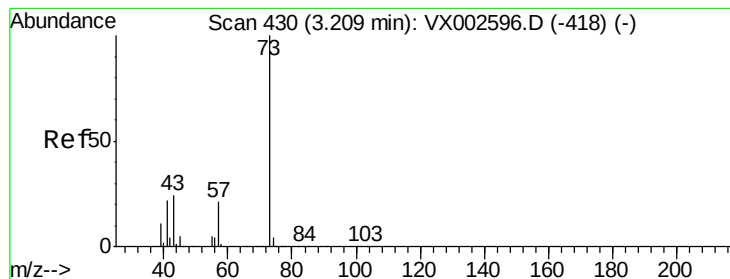
Tgt Ion: 76 Resp: 6627

Ion Ratio Lower Upper

76 100

78 5.5 6.9 10.3#





#19

Methyl tert-butyl Ether

Concen: 0.21 ug/l

RT: 3.20 min Scan# 429

Delta R.T. -0.01 min

Lab File: VX002748.D

Acq: 20 Jun 2018 18:07

Instrument :

MSVOA_X

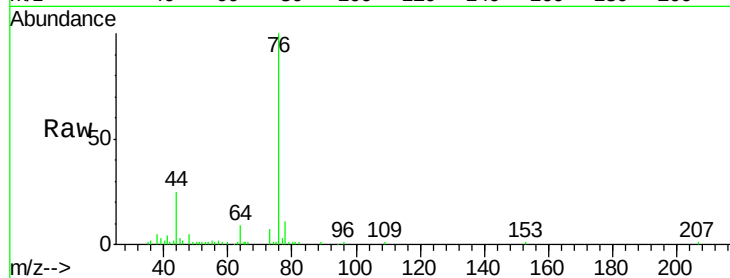
ClientSampleId :

Tot Ion: 73 Resp: 2020

Ion Ratio Lower Upper

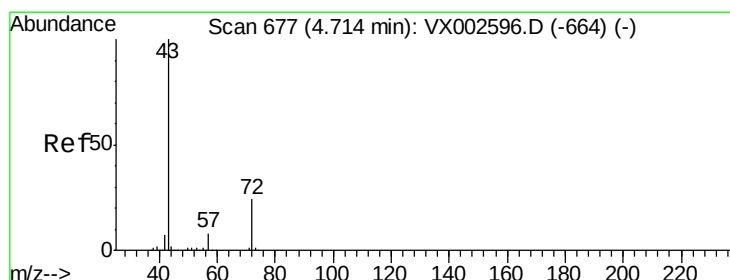
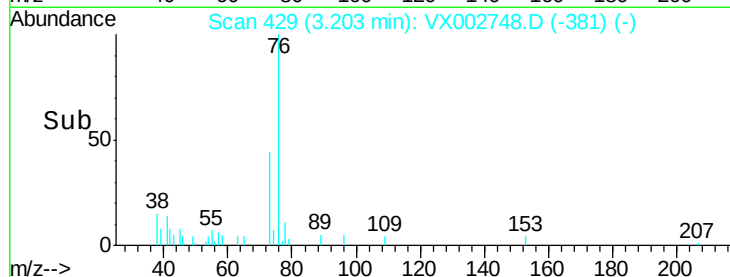
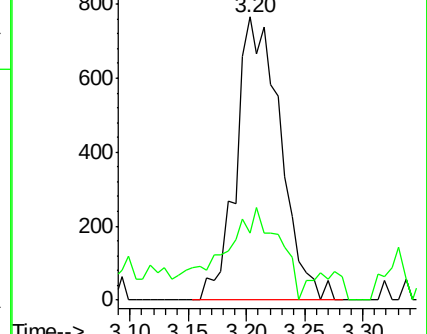
73 100

57 15.6 17.7 26.5#



Abundance Ion 73.00 (72.70 to 73.70): VX0

Ion 57.00 (56.70 to 57.70): VX0



#25

2-Butanone

Concen: 1.04 ug/l

RT: 4.73 min Scan# 680

Delta R.T. 0.02 min

Lab File: VX002748.D

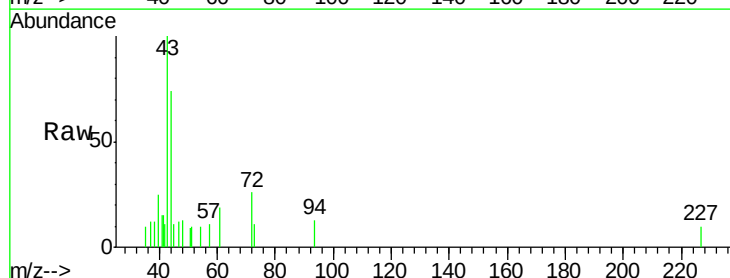
Acq: 20 Jun 2018 18:07

Tgt Ion: 43 Resp: 2108

Ion Ratio Lower Upper

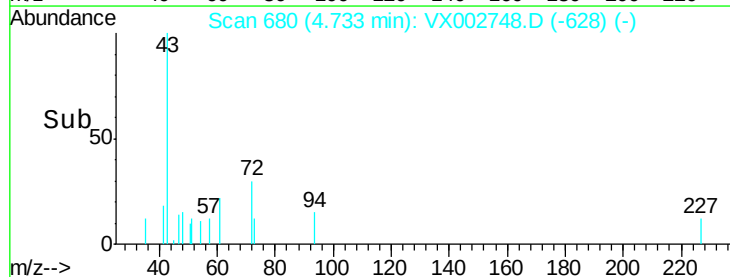
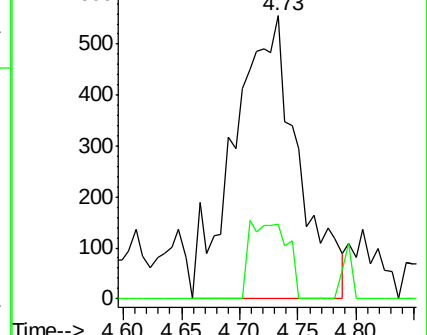
43 100

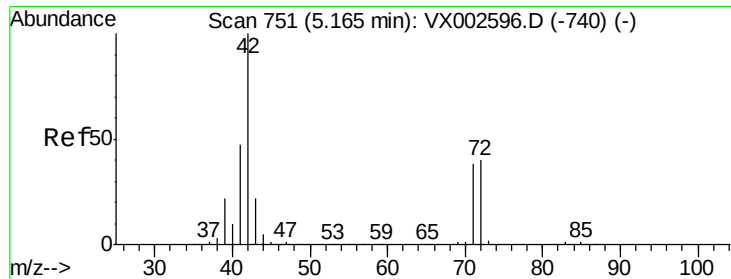
72 26.3 18.5 27.7



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

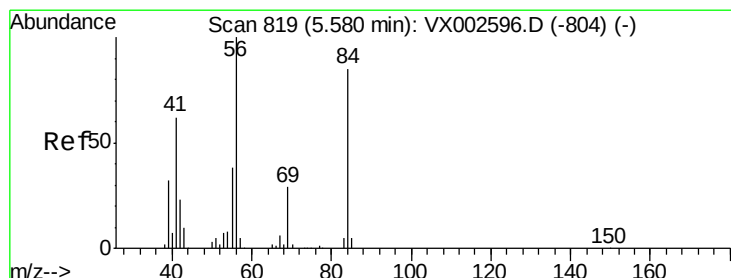
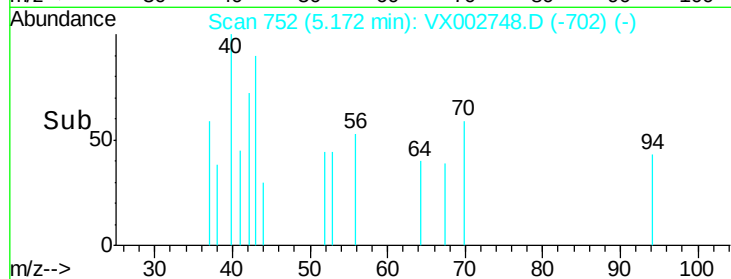
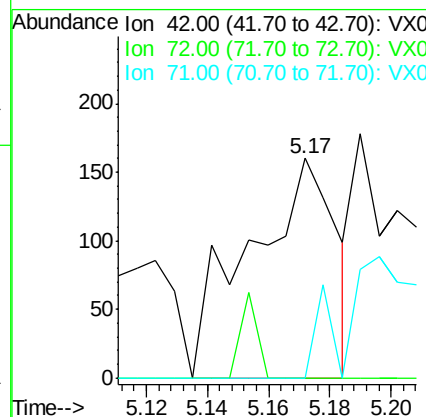
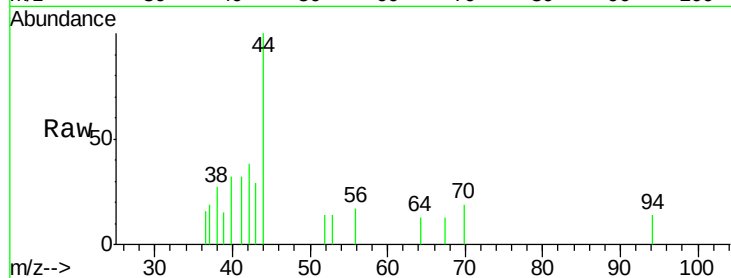




#29
Tetrahydrofuran
Concen: 0.24 ug/l
RT: 5.17 min Scan# 752
Delta R.T. 0.01 min
Lab File: VX002748.D
Acq: 20 Jun 2018 18:07

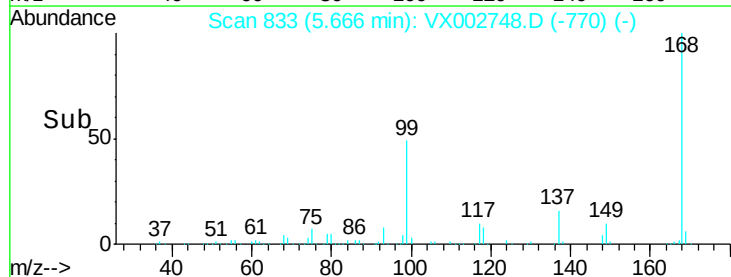
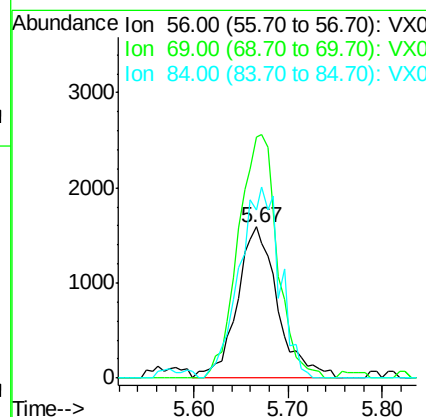
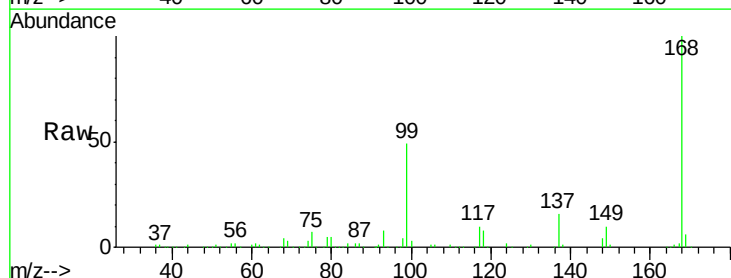
Instrument :
MSVOA_X
ClientSampled :

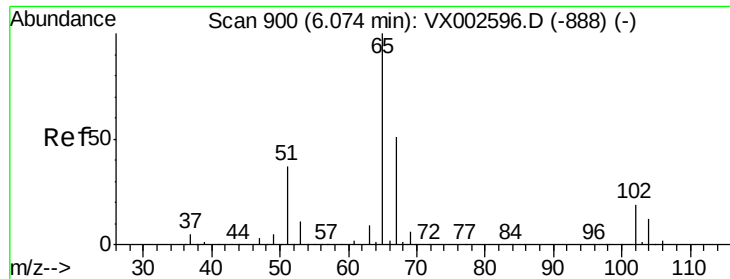
Tot Ion: 42 Resp: 313
Ion Ratio Lower Upper
42 100
72 7.3 32.0 48.0#
71 0.0 30.1 45.1#



#31
Cyclohexane
Concen: 1.16 ug/l
RT: 5.67 min Scan# 833
Delta R.T. 0.09 min
Lab File: VX002748.D
Acq: 20 Jun 2018 18:07

Tgt Ion: 56 Resp: 4776
Ion Ratio Lower Upper
56 100
69 159.6 23.7 35.5#
84 111.5 64.1 96.1#

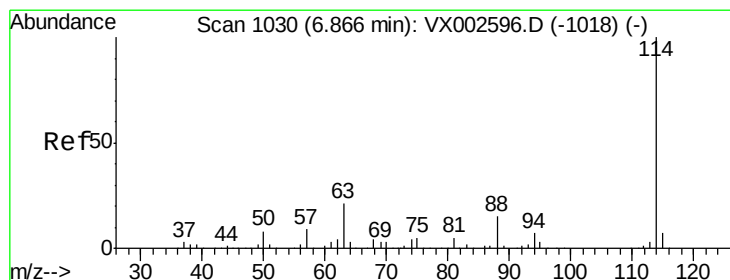
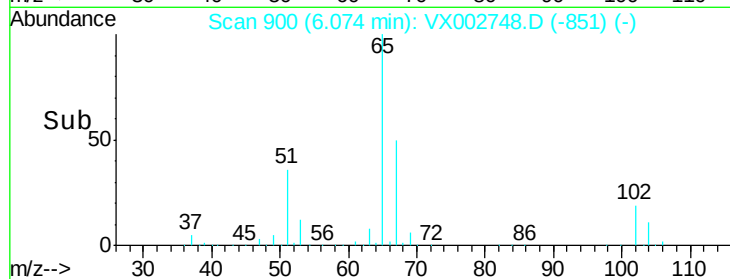
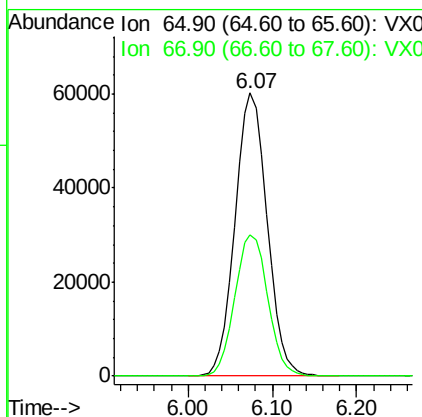
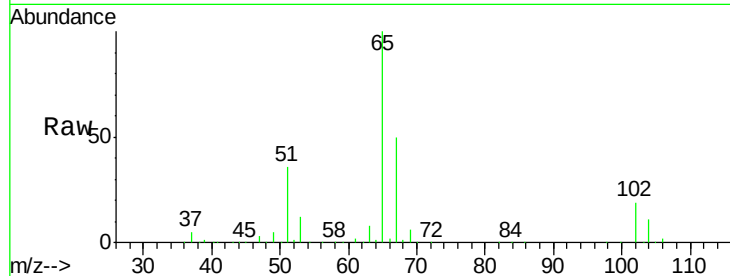




#33
 1,2-Dichloroethane-d4
 Concen: 44.51 ug/l
 RT: 6.07 min Scan# 900
 Delta R.T. 0.00 min
 Lab File: VX002748.D
 Acq: 20 Jun 2018 18:07

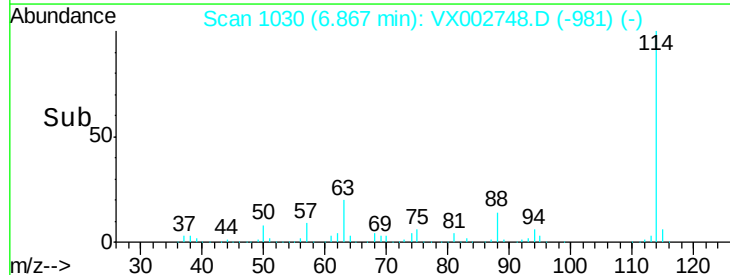
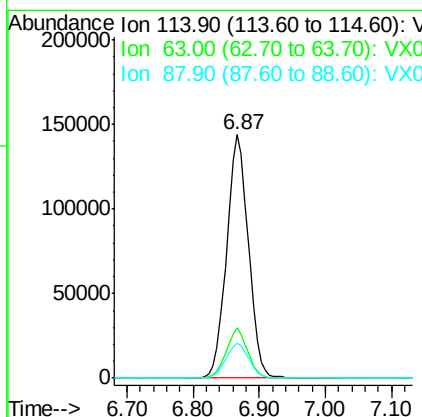
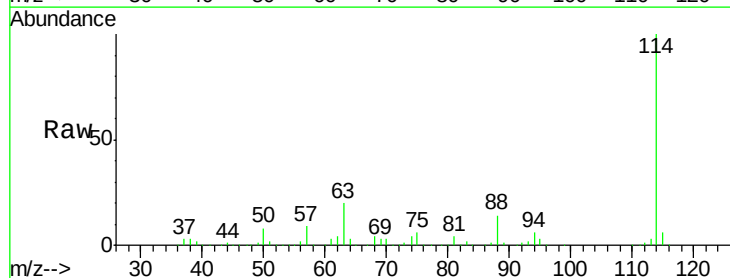
Instrument :
 MSVOA_X
 ClientSampleId :

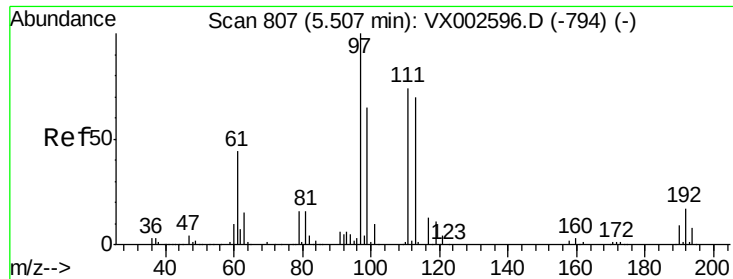
Tot Ion: 65 Resp: 155063
 Ion Ratio Lower Upper
 65 100
 67 51.5 0.0 102.6



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. 0.00 min
 Lab File: VX002748.D
 Acq: 20 Jun 2018 18:07

Tgt Ion: 114 Resp: 328145
 Ion Ratio Lower Upper
 114 100
 63 20.5 0.0 41.4
 88 14.4 0.0 30.0

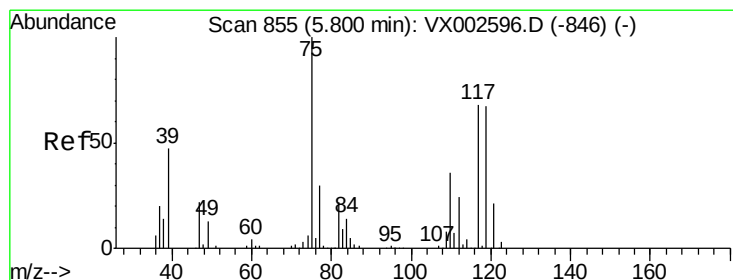
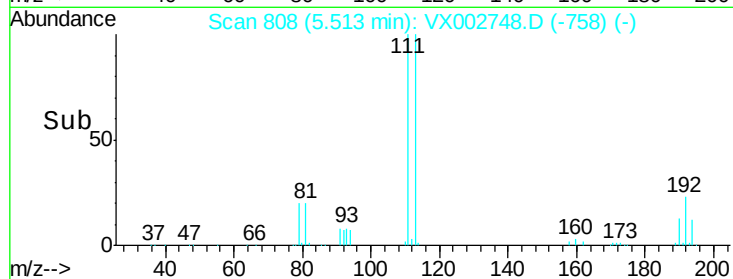
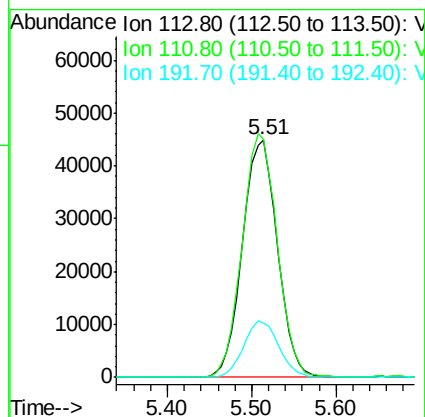
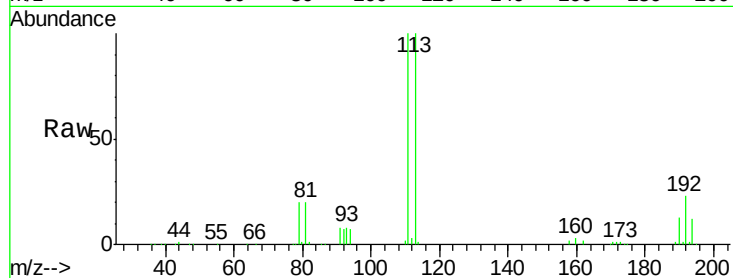




#35
 Dibromofluoromethane
 Concen: 48.35 ug/l
 RT: 5.51 min Scan# 808
 Delta R.T. 0.01 min
 Lab File: VX002748.D
 Acq: 20 Jun 2018 18:07

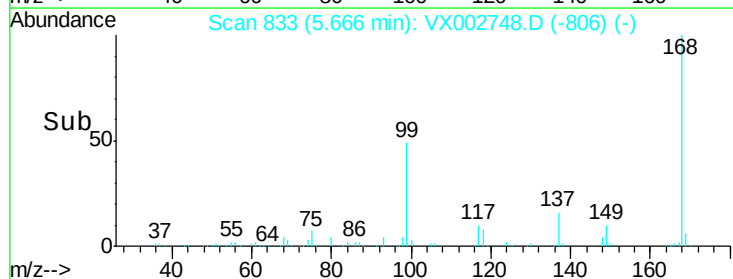
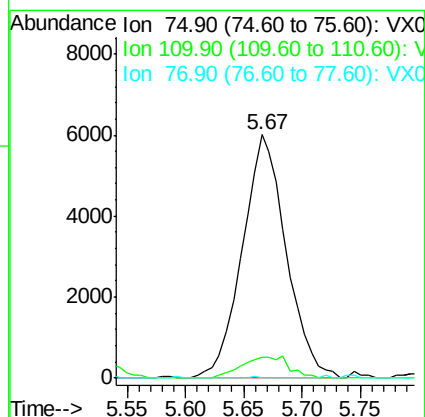
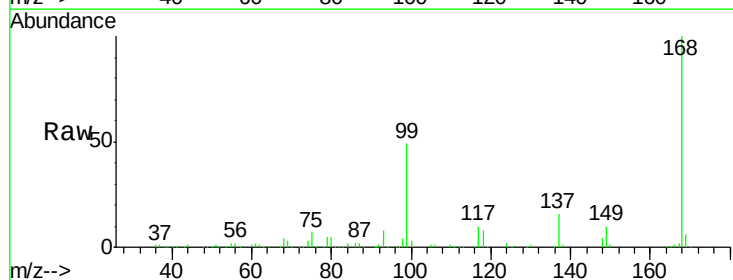
Instrument :
 MSVOA_X
 ClientSampleId :

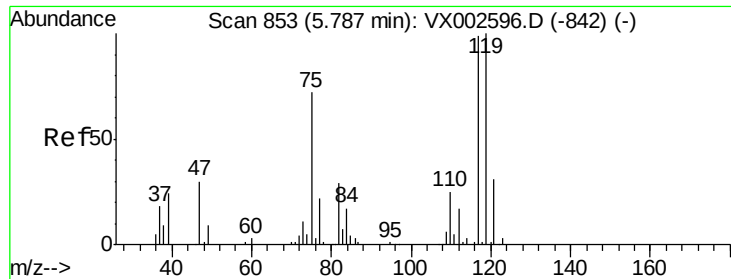
Tot Ion:113 Resp: 126631
 Ion Ratio Lower Upper
 113 100
 111 102.3 81.4 122.0
 192 23.8 19.1 28.7



#36
 1,1-Dichloropropene
 Concen: 4.50 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.13 min
 Lab File: VX002748.D
 Acq: 20 Jun 2018 18:07

Tgt Ion: 75 Resp: 15690
 Ion Ratio Lower Upper
 75 100
 110 0.0 18.1 54.4#
 77 0.1 24.3 36.5#





#38

Carbon Tetrachloride

Concen: 6.10 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX002748.D

Acq: 20 Jun 2018 18:07

Instrument :

MSVOA_X

ClientSampleId :

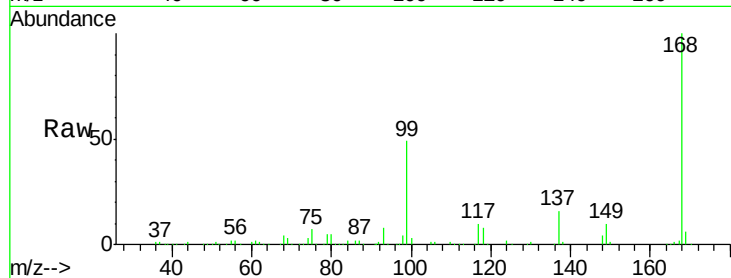
Tot Ion:117 Resp: 21179

Ion Ratio Lower Upper

117 100

119 4.3 77.4 116.0#

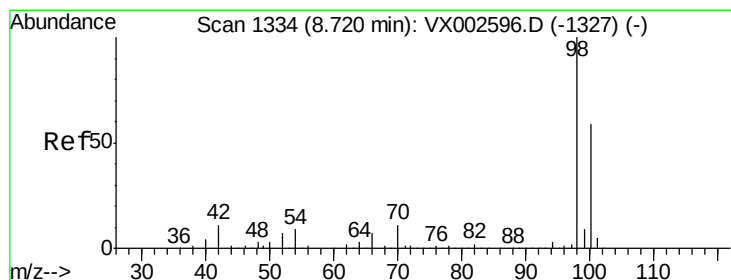
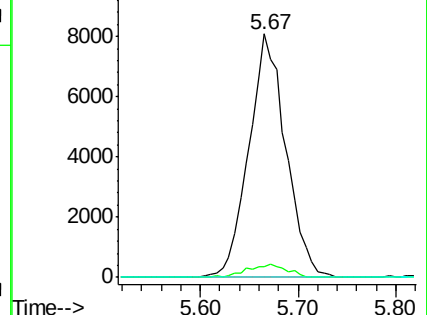
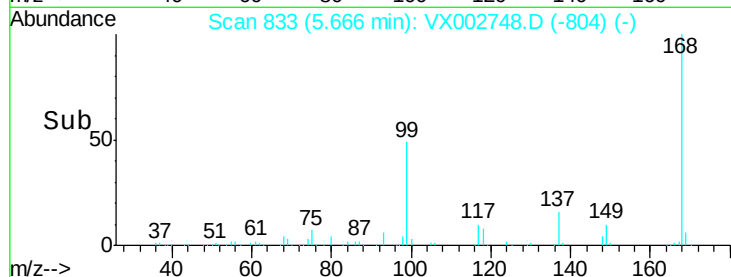
121 0.0 24.4 36.6#



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



#50

Toluene-d8

Concen: 46.43 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX002748.D

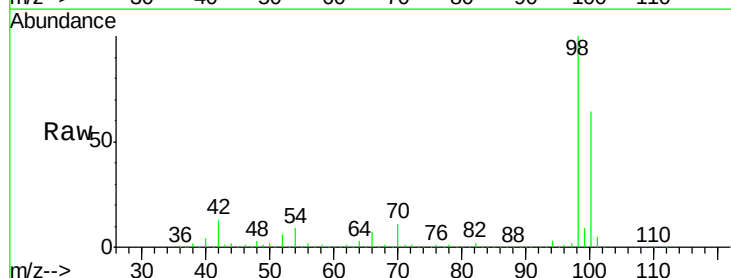
Acq: 20 Jun 2018 18:07

Tgt Ion: 98 Resp: 461743

Ion Ratio Lower Upper

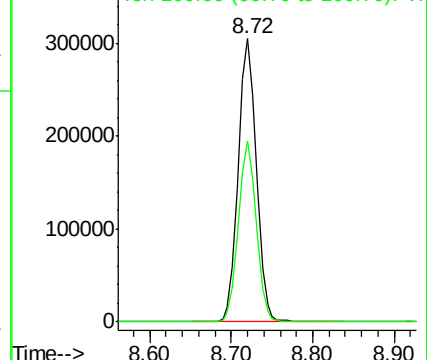
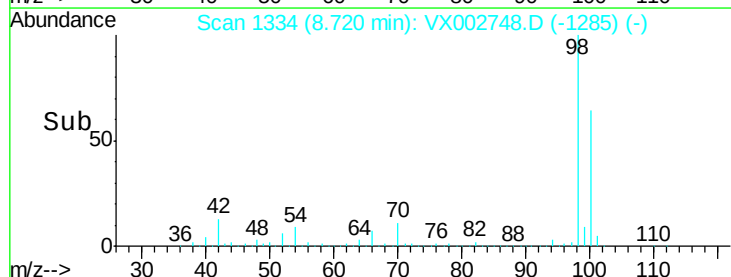
98 100

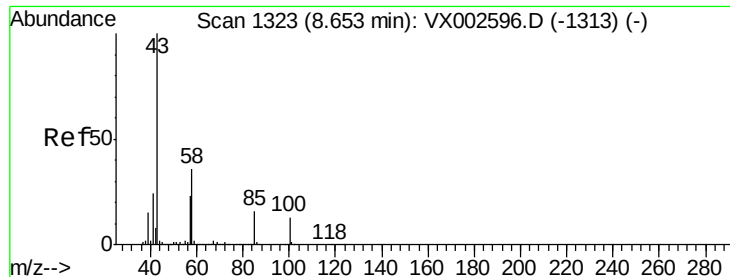
100 63.1 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

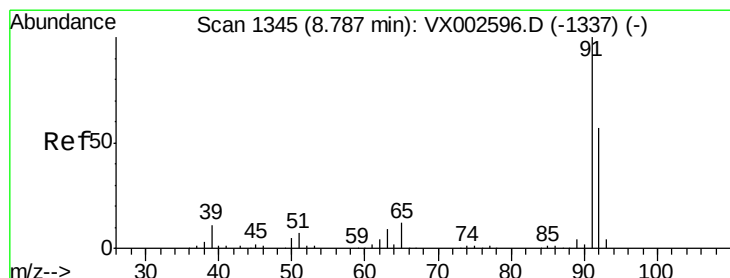
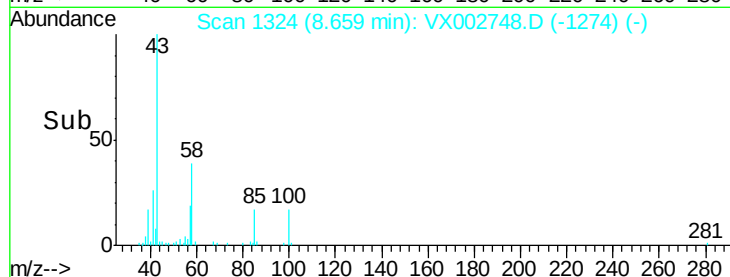
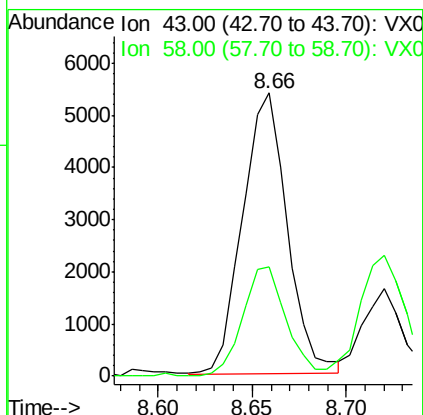
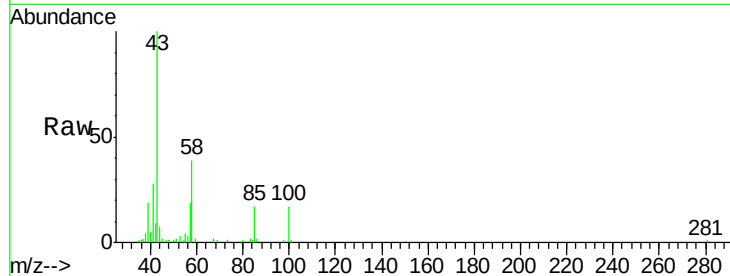




#51
4-Methyl-2-Pentanone
Concen: 2.12 ug/l
RT: 8.66 min Scan# 1324
Delta R.T. 0.01 min
Lab File: VX002748.D
Acq: 20 Jun 2018 18:07

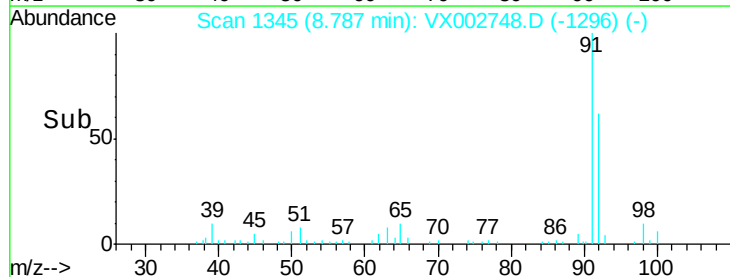
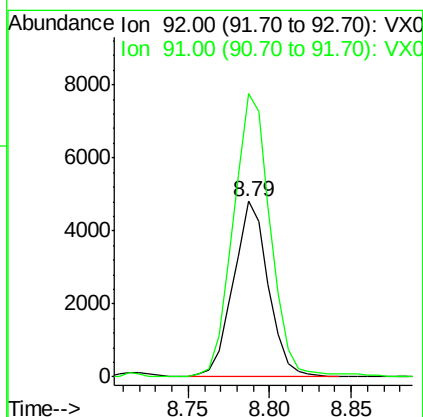
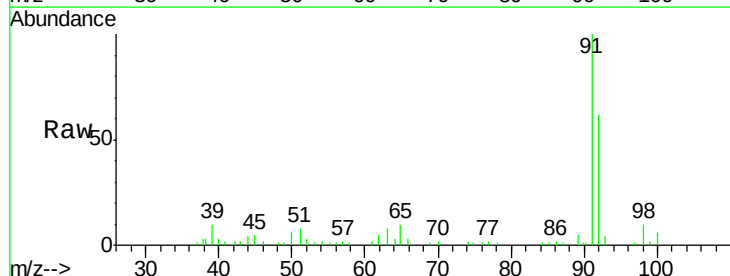
Instrument :
MSVOA_X
ClientSampled :

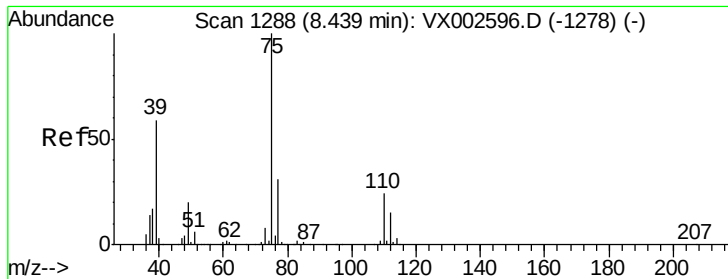
Tot Ion: 43 Resp: 8914
Ion Ratio Lower Upper
43 100
58 37.9 28.6 42.8



#52
Toluene
Concen: 1.08 ug/l
RT: 8.79 min Scan# 1345
Delta R.T. 0.00 min
Lab File: VX002748.D
Acq: 20 Jun 2018 18:07

Tgt Ion: 92 Resp: 7193
Ion Ratio Lower Upper
92 100
91 171.4 140.4 210.6





#53

t-1,3-Dichloropropene

Concen: 2.40 ug/l

RT: 8.38 min Scan# 1278

Delta R.T. -0.06 min

Lab File: VX002748.D

Acq: 20 Jun 2018 18:07

Instrument :

MSVOA_X

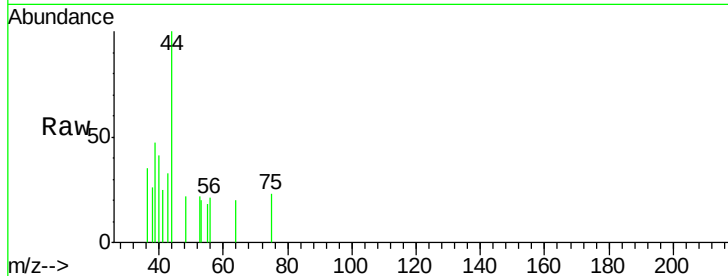
ClientSampleId :

Tot Ion: 75 Resp: 25

Ion Ratio Lower Upper

75 100

77 0.0 25.4 38.2#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0

8.38

60

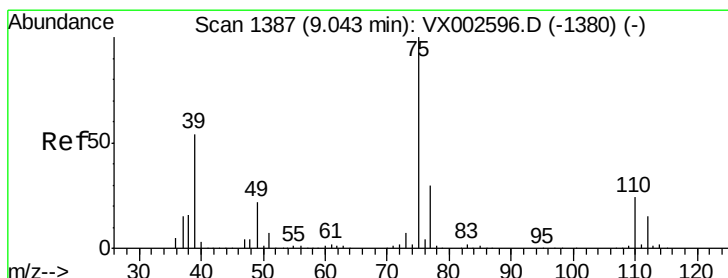
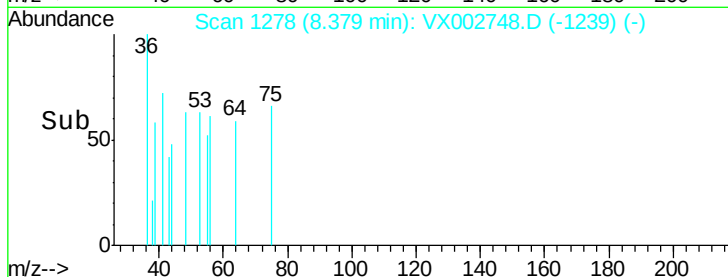
40

20

0

8.36 8.37 8.38 8.39

Time-->



#54

cis-1,3-Dichloropropene

Concen: 3.23 ug/l

RT: 9.06 min Scan# 1390

Delta R.T. 0.02 min

Lab File: VX002748.D

Acq: 20 Jun 2018 18:07

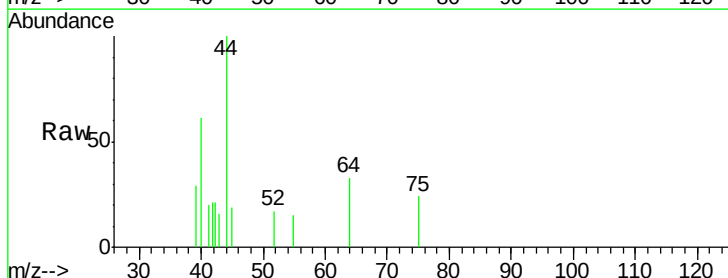
Tgt Ion: 75 Resp: 70

Ion Ratio Lower Upper

75 100

77 0.0 24.8 37.2#

39 36.1 42.4 63.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0

Ion 39.00 (38.70 to 39.70): VX0

200

150

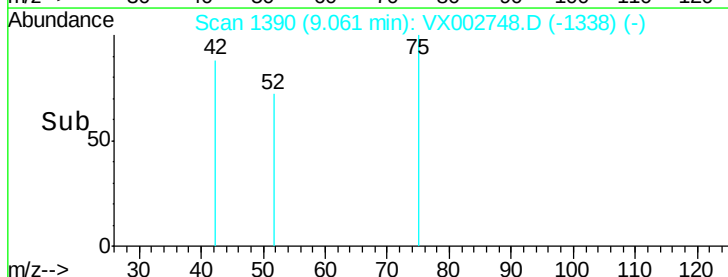
100

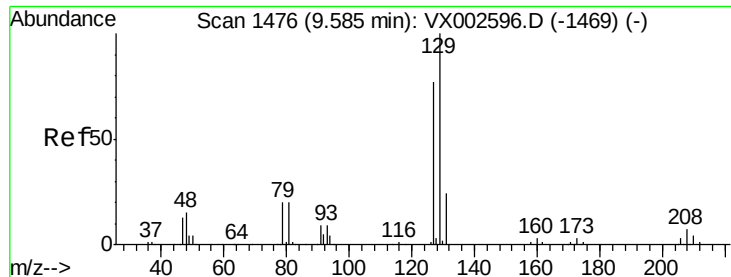
50

0

9.04 9.06 9.08

Time-->





#60

Dibromochloromethane

Concen: 3.82 ug/l

RT: 9.34 min Scan# 1436

Delta R.T. -0.24 min

Lab File: VX002748.D

Acq: 20 Jun 2018 18:07

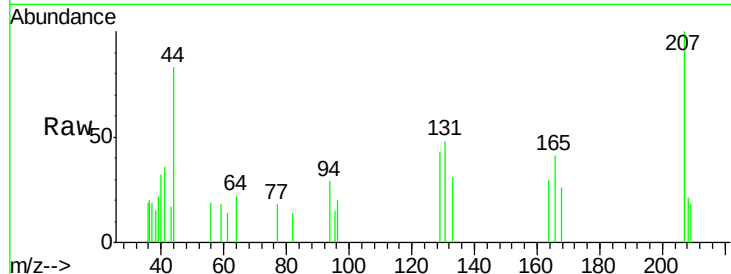
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:129 Resp: 195

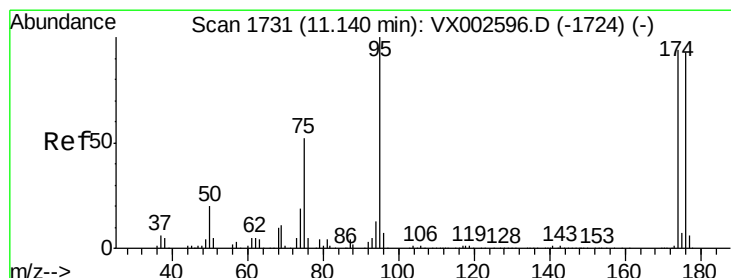
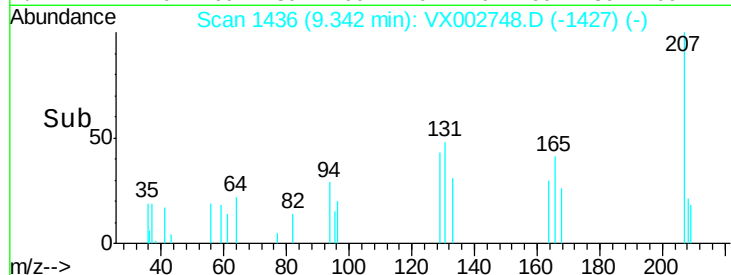
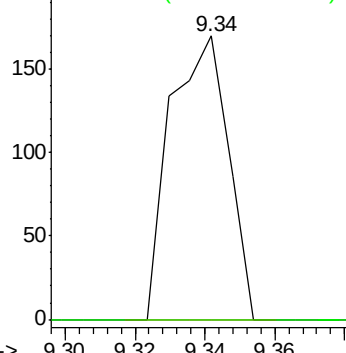
Ion Ratio Lower Upper

129 100

127 0.0 38.5 115.3#



Abundance Ion 128.80 (128.50 to 129.50): V
Ion 126.80 (126.50 to 127.50): V



#62

4-Bromofluorobenzene

Concen: 43.53 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX002748.D

Acq: 20 Jun 2018 18:07

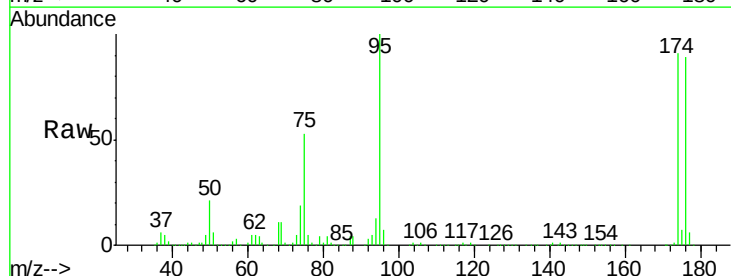
Tgt Ion: 95 Resp: 164039

Ion Ratio Lower Upper

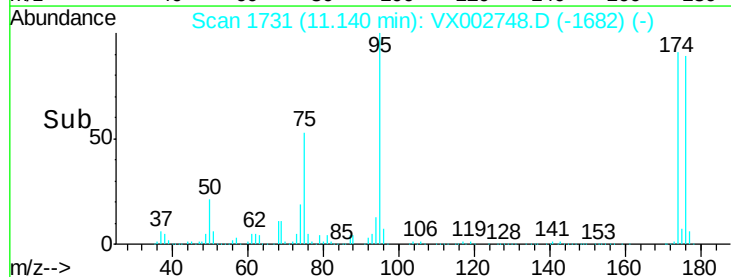
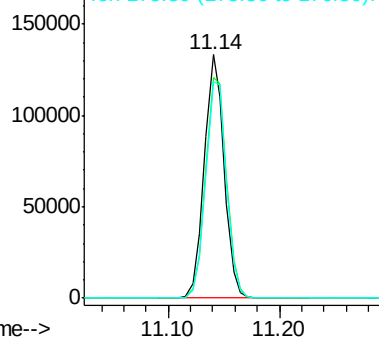
95 100

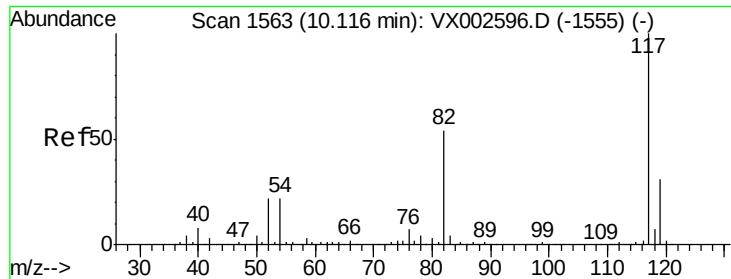
174 96.6 0.0 187.4

176 93.9 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

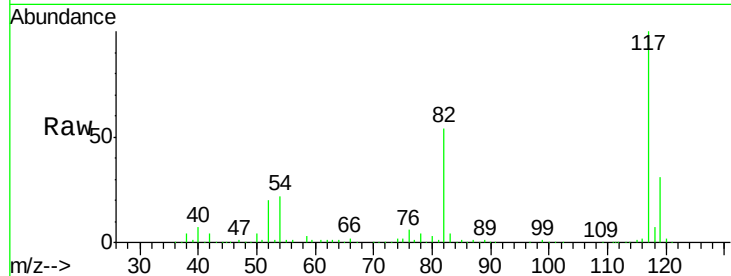




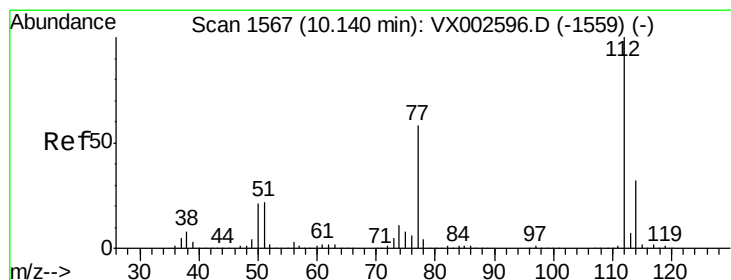
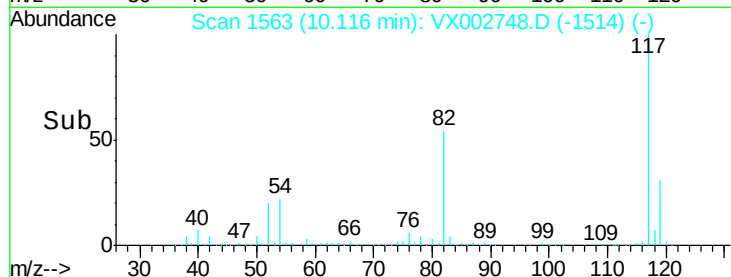
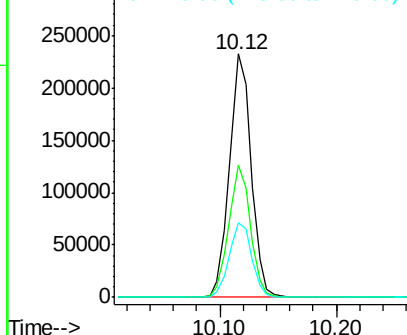
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. 0.00 min
Lab File: VX002748.D
Acq: 20 Jun 2018 18:07

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:117 Resp: 303735
Ion Ratio Lower Upper
117 100
82 54.1 45.0 67.4
119 30.9 25.8 38.6

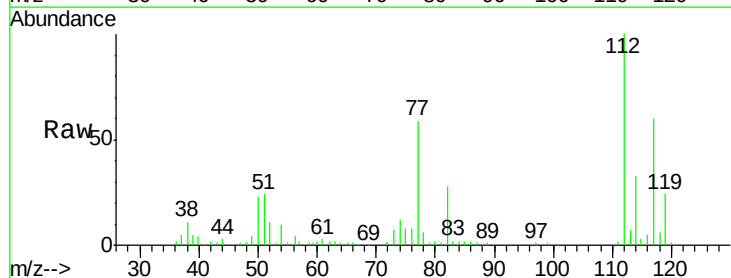


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

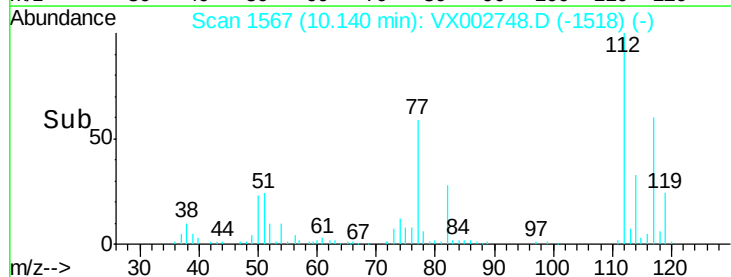
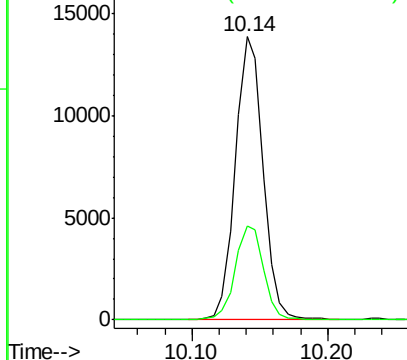


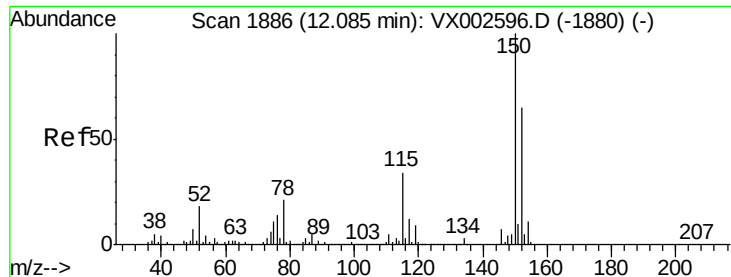
#65
Chlorobenzene
Concen: 2.63 ug/l
RT: 10.14 min Scan# 1567
Delta R.T. 0.00 min
Lab File: VX002748.D
Acq: 20 Jun 2018 18:07

Tgt Ion:112 Resp: 19586
Ion Ratio Lower Upper
112 100
114 33.2 25.3 37.9



Abundance Ion 111.90 (111.60 to 112.60): V
Ion 113.90 (113.60 to 114.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.09 min Scan# 1886

Delta R.T. 0.00 min

Lab File: VX002748.D

Acq: 20 Jun 2018 18:07

Instrument :

MSVOA_X

ClientSampled :

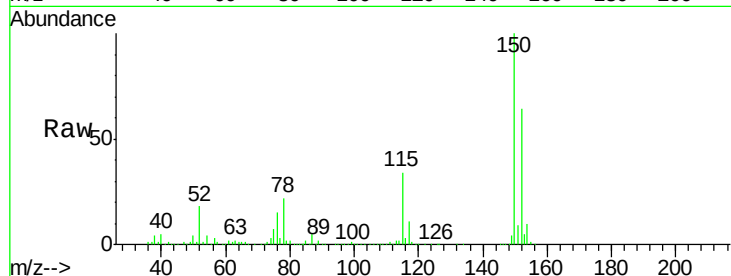
Tot Ion:152 Resp: 176539

Ion Ratio Lower Upper

152 100

115 54.3 40.1 120.2

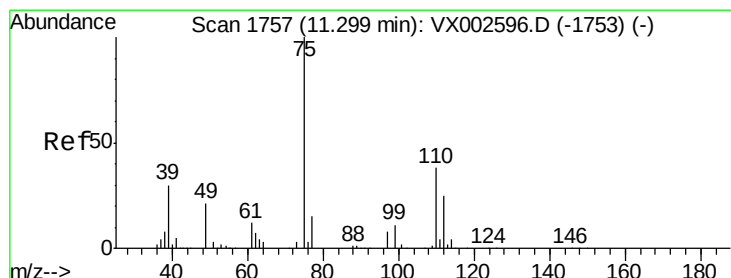
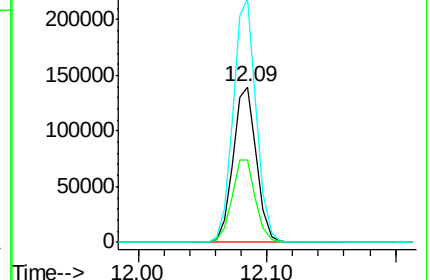
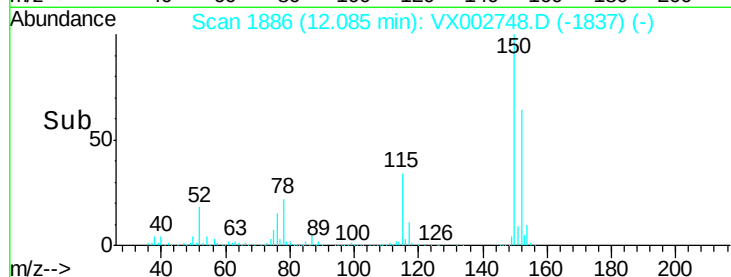
150 155.6 0.0 347.2



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



#76

1,2,3-Trichloropropane

Concen: 25.92 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002748.D

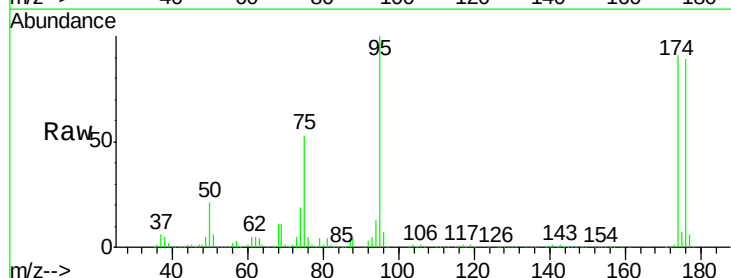
Acq: 20 Jun 2018 18:07

Tgt Ion: 75 Resp: 86343

Ion Ratio Lower Upper

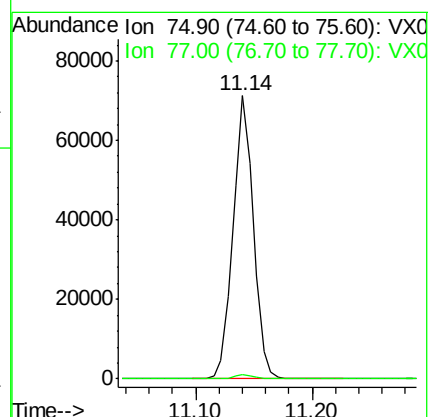
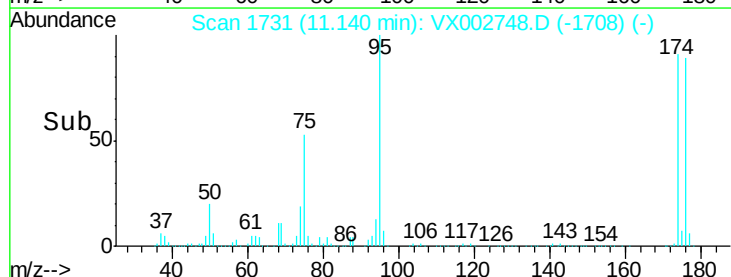
75 100

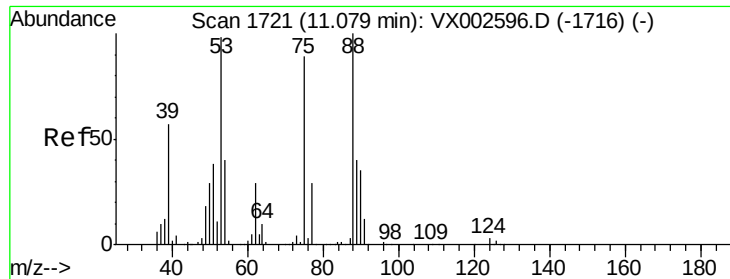
77 1.5 22.8 68.3#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

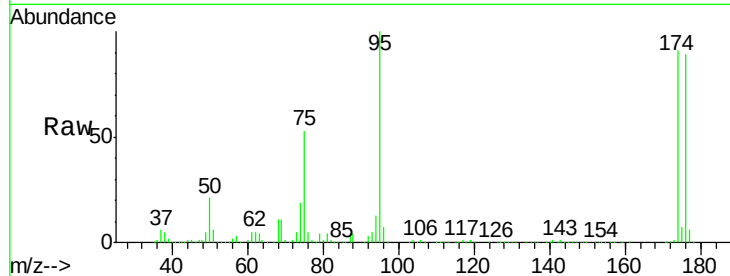




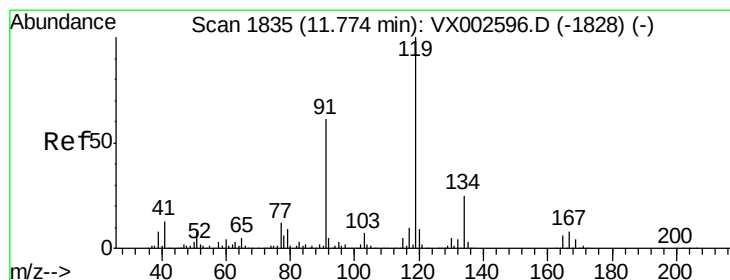
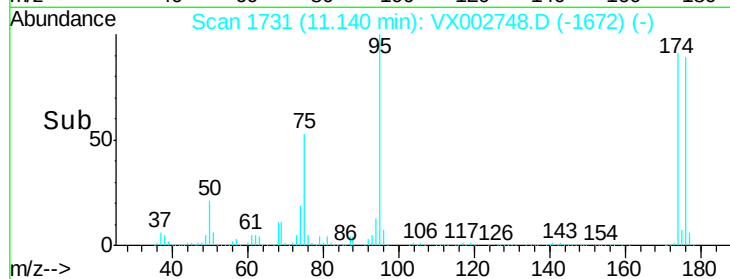
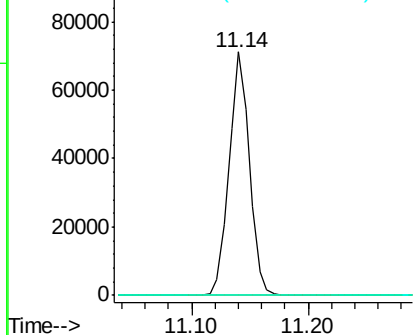
#81
 trans-1,4-Dichloro-2-butene
 Concen: 80.18 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. 0.06 min
 Lab File: VX002748.D
 Acq: 20 Jun 2018 18:07

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion: 75 Resp: 86343
 Ion Ratio Lower Upper
 75 100
 53 0.2 86.8 130.2#
 89 0.0 38.2 57.2#

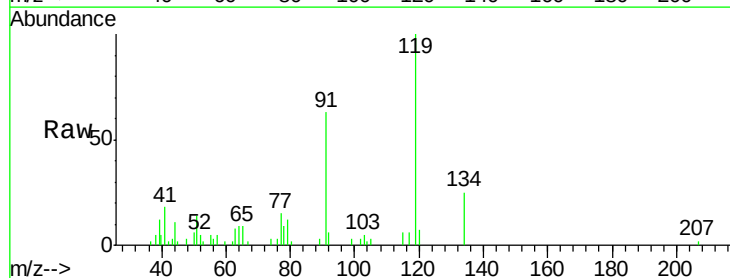


Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 53.00 (52.70 to 53.70): VX0
 Ion 88.90 (88.60 to 89.60): VX0

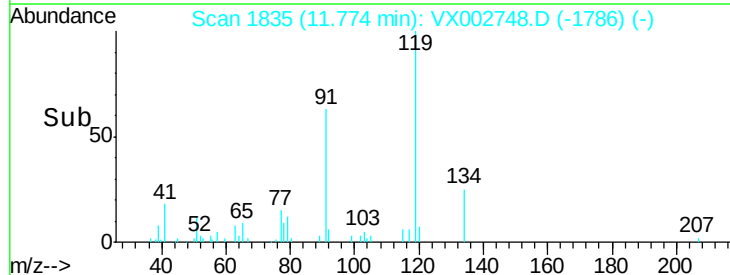
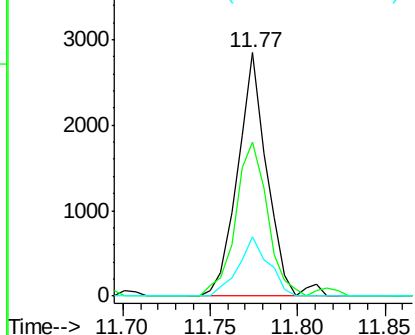


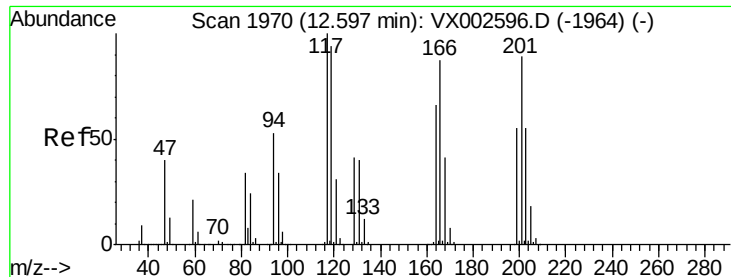
#83
 tert-Butylbenzene
 Concen: 0.35 ug/l
 RT: 11.77 min Scan# 1835
 Delta R.T. 0.00 min
 Lab File: VX002748.D
 Acq: 20 Jun 2018 18:07

Tgt Ion: 119 Resp: 3332
 Ion Ratio Lower Upper
 119 100
 91 68.7 30.3 90.9
 134 25.1 11.7 35.1



Abundance Ion 119.00 (118.70 to 119.70): V
 Ion 91.00 (90.70 to 91.70): VX0
 Ion 134.00 (133.70 to 134.70): V





#90

Hexachloroethane

Concen: 2.74 ug/l

RT: 12.76 min Scan# 1997

Delta R.T. 0.16 min

Lab File: VX002748.D

Acq: 20 Jun 2018 18:07

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion:117 Resp: 201

Ion Ratio Lower Upper

117 100

201 0.0 49.0 147.0#

