

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX061918\
 Data File : VX002737.D
 Acq On : 20 Jun 2018 02:56
 Operator : JC/MD
 Sample : J3510-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 20 07:03:34 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	227823	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	317815	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	298131	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	168218	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	153528	44.35	ug/l	0.00
Spiked Amount			Recovery	=	88.70%	
35) Dibromofluoromethane	5.51	113	120330	47.44	ug/l	0.00
Spiked Amount			Recovery	=	94.88%	
50) Toluene-d8	8.72	98	454085	47.15	ug/l	0.00
Spiked Amount			Recovery	=	94.30%	
62) 4-Bromofluorobenzene	11.14	95	156708	42.94	ug/l	0.00
Spiked Amount			Recovery	=	85.88%	

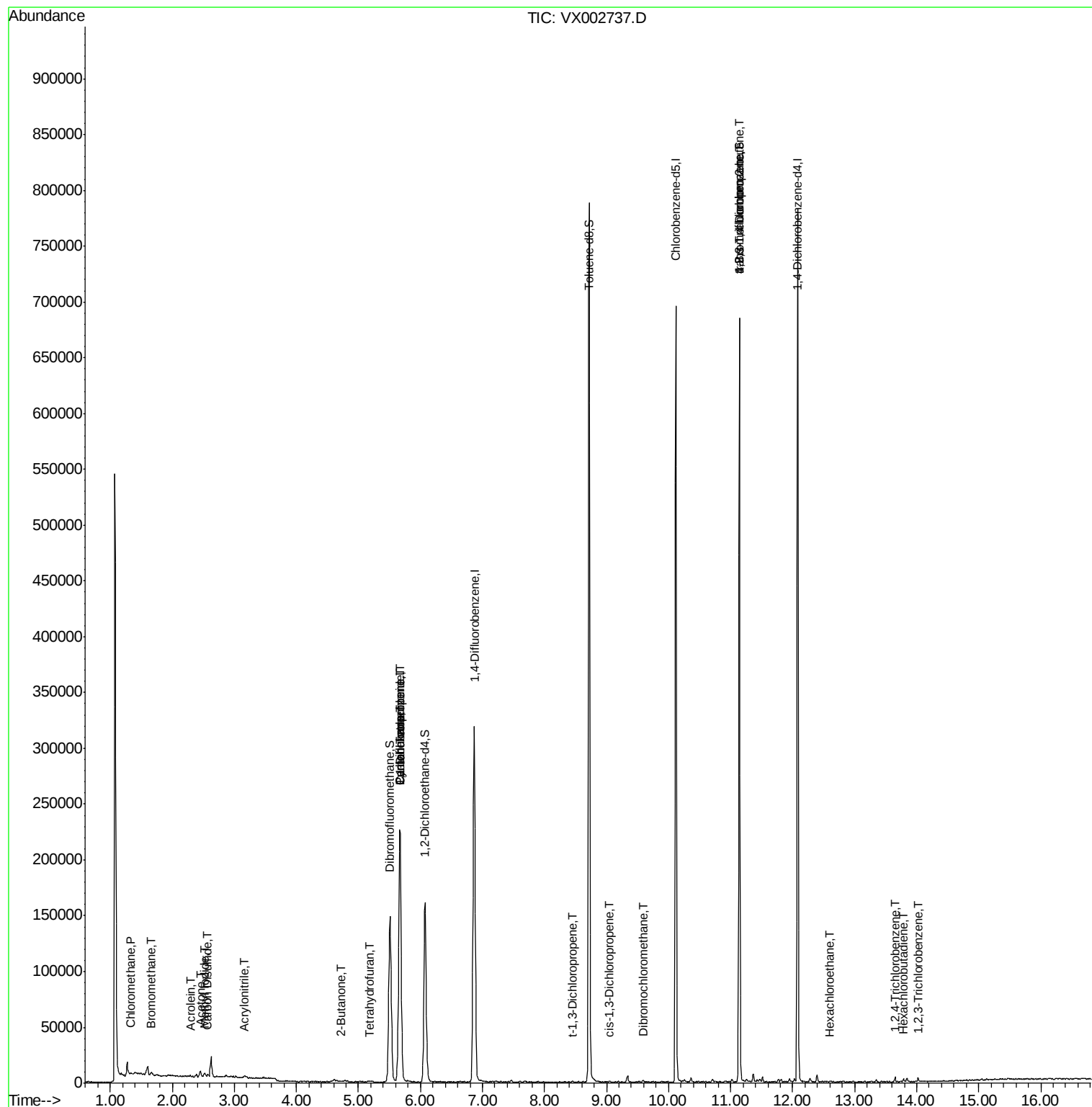
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	772	0.27	ug/l #	80
5) Bromomethane	1.65	94	1609	0.89	ug/l	86
10) Methyl Iodide	2.52	142	3337	6.00	ug/l #	95
13) Acrolein	2.29	56	390	7.99	ug/l #	56
15) Acrylonitrile	3.16	53	808	0.52	ug/l #	72
16) Acetone	2.45	43	5480	3.59	ug/l	98
17) Carbon Disulfide	2.57	76	2442	0.40	ug/l #	85
25) 2-Butanone	4.72	43	766	0.38	ug/l	94
29) Tetrahydrofuran	5.17	42	353	0.27	ug/l #	67
31) Cyclohexane	5.67	56	5220	1.28	ug/l #	3
36) 1,1-Dichloropropene	5.67	75	16104	4.77	ug/l #	50
38) Carbon Tetrachloride	5.67	117	21202	6.31	ug/l #	15
53) t-1,3-Dichloropropene	8.45	75	136	2.42	ug/l #	49
54) cis-1,3-Dichloropropene	9.05	75	238	3.27	ug/l #	38
60) Dibromochloromethane	9.59	129	42	3.77	ug/l #	11
76) 1,2,3-Trichloropropane	11.14	75	83304	26.24	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.14	75	83304	81.13	ug/l #	6
90) Hexachloroethane	12.60	117	95	2.68	ug/l #	26
93) 1,2,4-Trichlorobenzene	13.65	180	1164	0.28	ug/l	95
94) Hexachlorobutadiene	13.79	225	513	0.23	ug/l	94
96) 1,2,3-Trichlorobenzene	14.02	180	888	0.21	ug/l	90

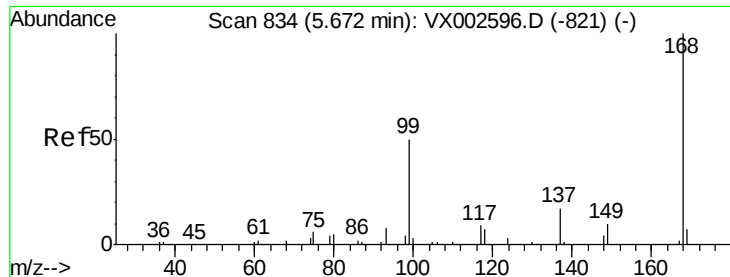
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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# 834

Delta R.T. 0.00 min

Lab File: VX002737.D

Acq: 20 Jun 2018 02:56

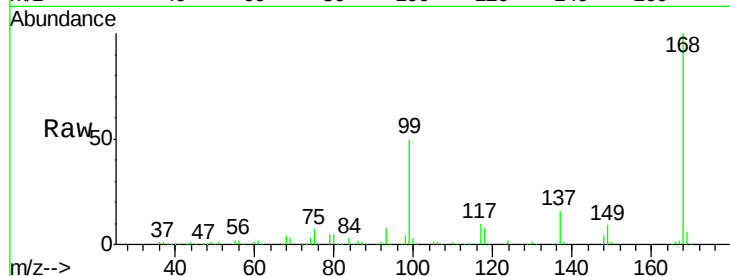
Instrument :
MSVOA_X
ClientSampled :

Tot Ion:168 Resp: 227823

Ion Ratio Lower Upper

168 100

99 49.9 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

80000

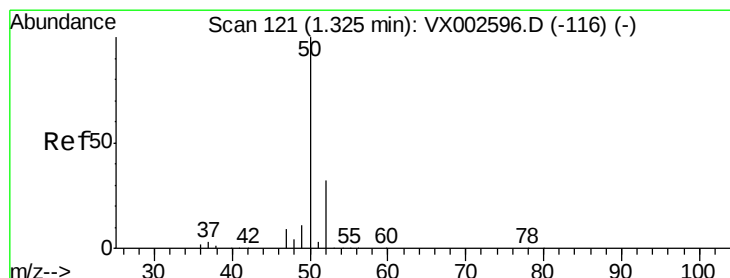
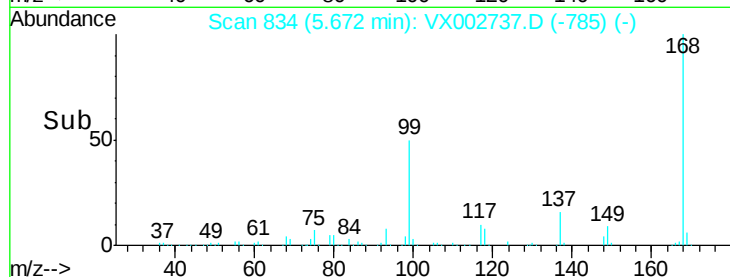
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.27 ug/l

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX002737.D

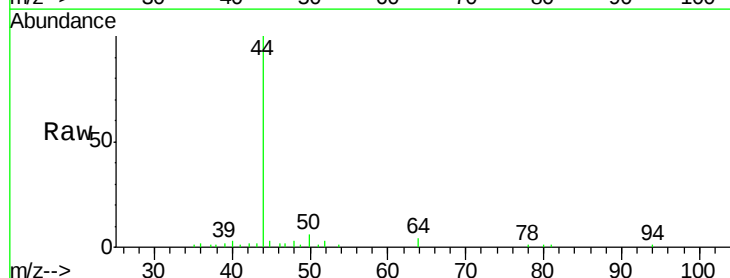
Acq: 20 Jun 2018 02:56

Tgt Ion: 50 Resp: 772

Ion Ratio Lower Upper

50 100

52 43.4 25.7 38.5#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

400

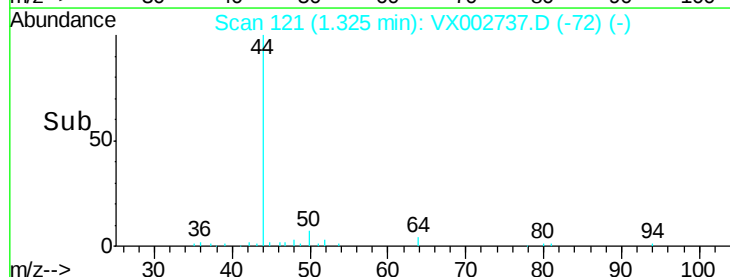
300

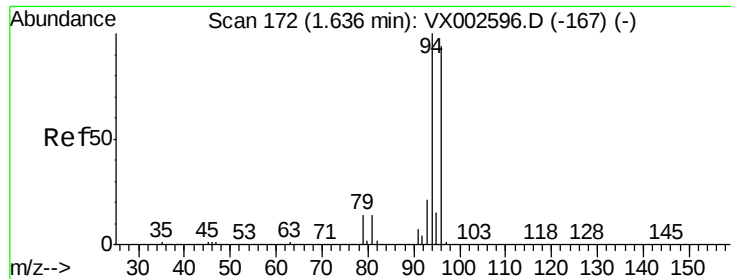
200

100

0

Time--> 1.30 1.35





#5

Bromomethane

Concen: 0.89 ug/l

RT: 1.65 min Scan# 175

Delta R.T. 0.02 min

Lab File: VX002737.D

Acq: 20 Jun 2018 02:56

Instrument :

MSVOA_X

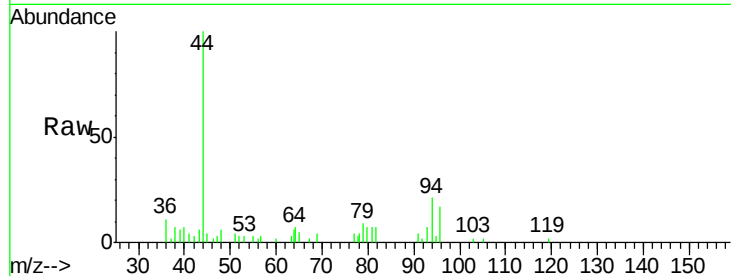
ClientSampleId :

Tot Ion: 94 Resp: 1609

Ion Ratio Lower Upper

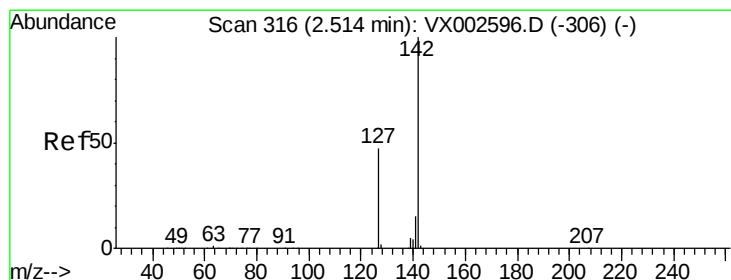
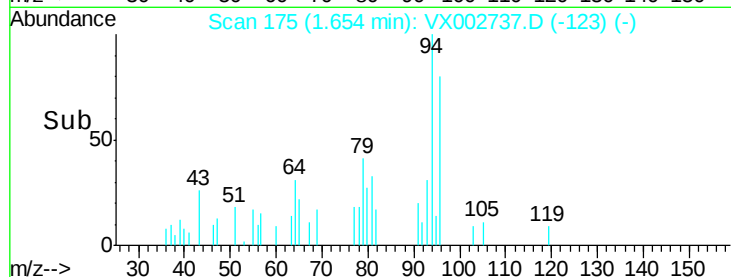
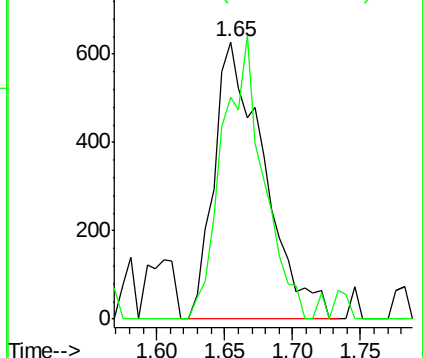
94 100

96 80.3 74.9 112.3



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#10

Methyl Iodide

Concen: 6.00 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX002737.D

Acq: 20 Jun 2018 02:56

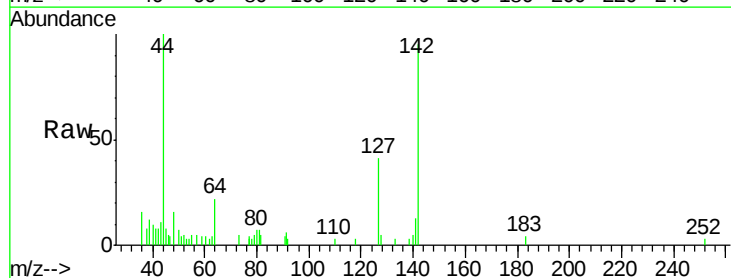
Tgt Ion:142 Resp: 3337

Ion Ratio Lower Upper

142 100

127 48.1 36.6 55.0

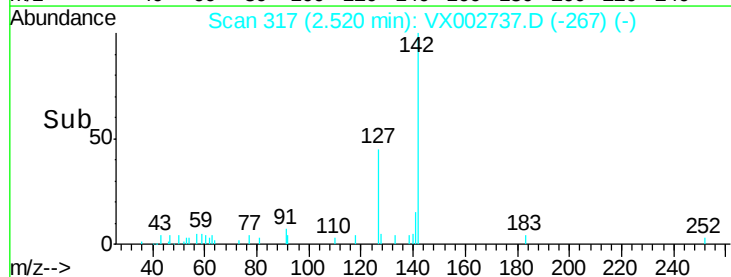
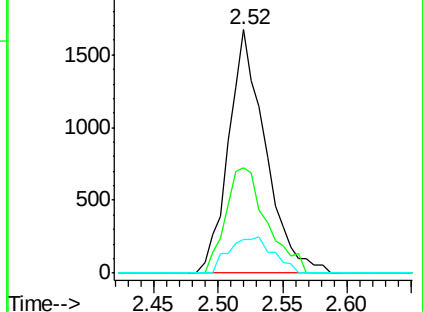
141 17.8 11.3 16.9#

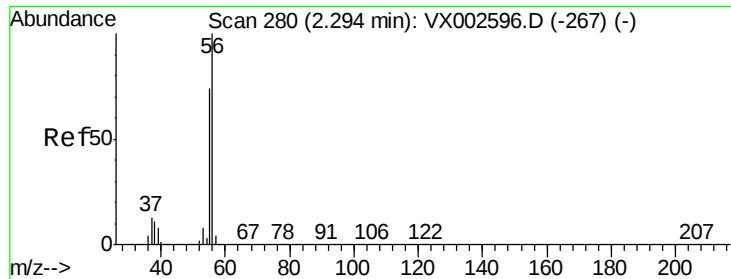


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V





#13

Acrolein

Concen: 7.99 ug/l

RT: 2.29 min Scan# 280

Delta R.T. 0.00 min

Lab File: VX002737.D

Acq: 20 Jun 2018 02:56

Instrument :

MSVOA_X

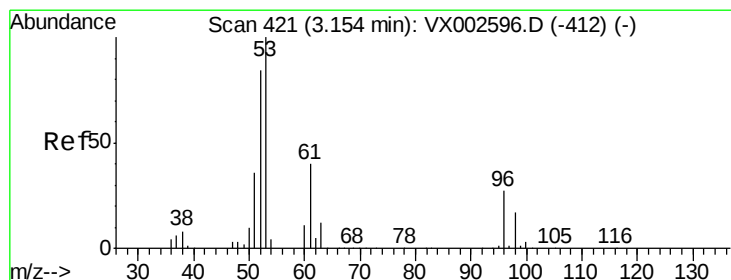
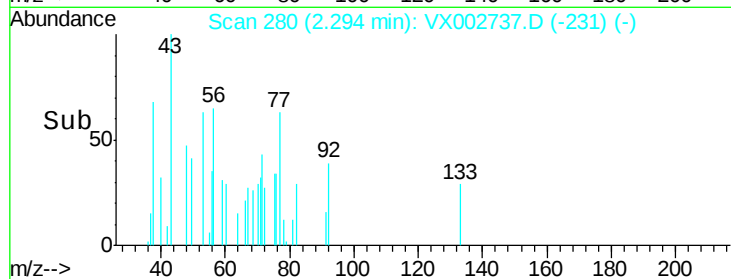
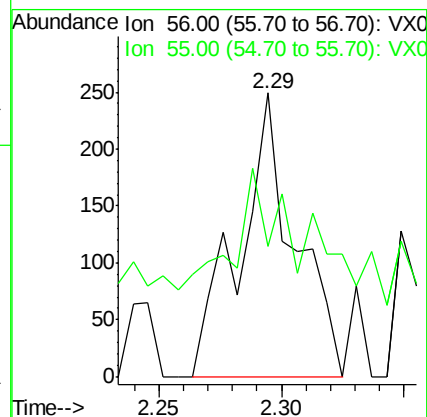
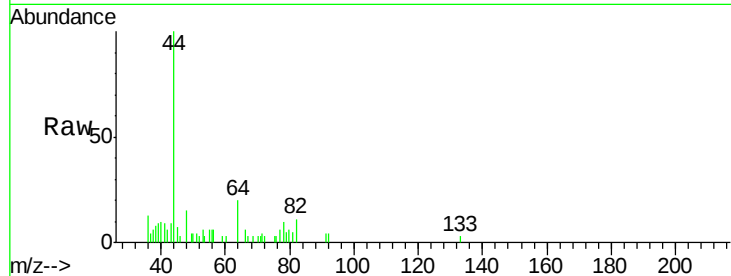
ClientSampled :

Tot Ion: 56 Resp: 390

Ion Ratio Lower Upper

56 100

55 34.4 57.0 85.4#



#15

Acrylonitrile

Concen: 0.52 ug/l

RT: 3.16 min Scan# 422

Delta R.T. 0.01 min

Lab File: VX002737.D

Acq: 20 Jun 2018 02:56

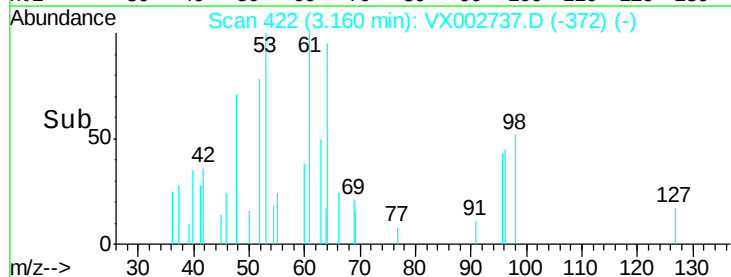
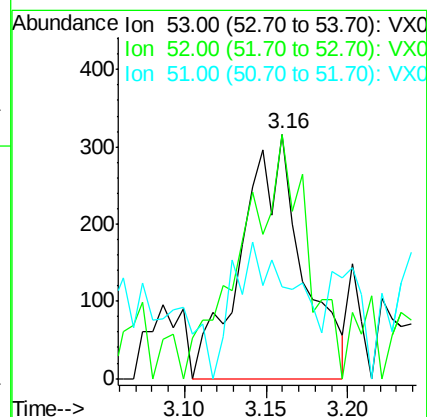
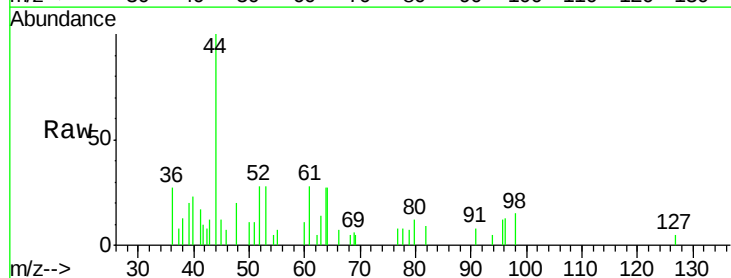
Tgt Ion: 53 Resp: 808

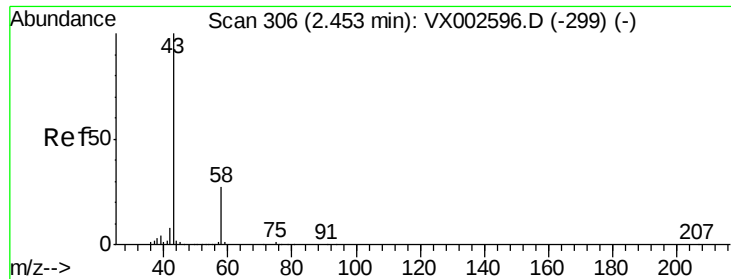
Ion Ratio Lower Upper

53 100

52 106.3 66.7 100.1#

51 57.9 29.9 44.9#





#16

Acetone

Concen: 3.59 ug/l

RT: 2.45 min Scan# 306

Delta R.T. 0.00 min

Lab File: VX002737.D

Acq: 20 Jun 2018 02:56

Instrument :

MSVOA_X

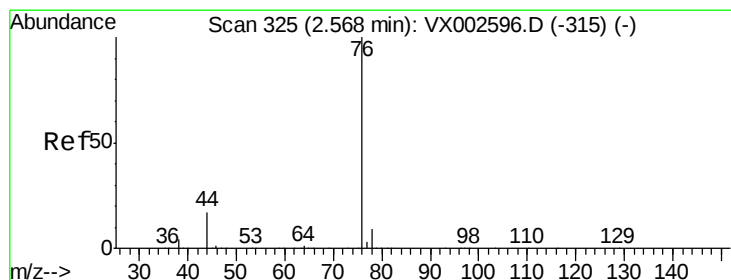
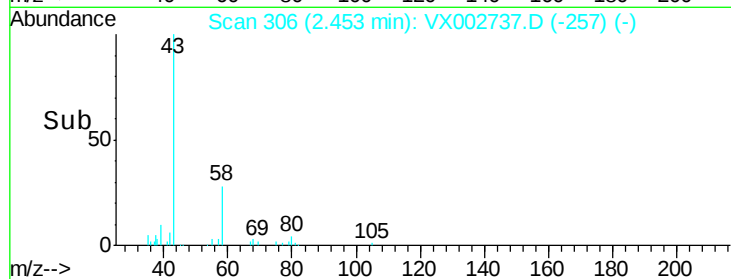
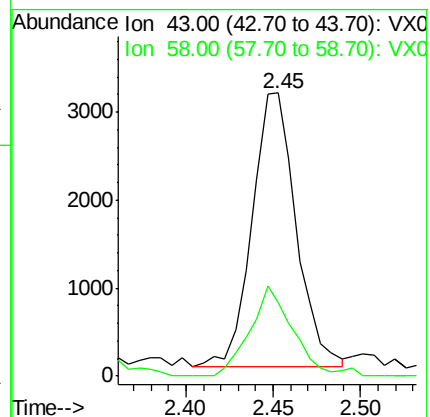
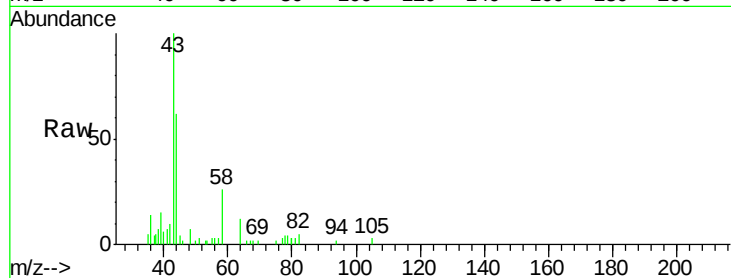
ClientSampled :

Tot Ion: 43 Resp: 5480

Ion Ratio Lower Upper

43 100

58 26.8 22.1 33.1



#17

Carbon Disulfide

Concen: 0.40 ug/l

RT: 2.57 min Scan# 325

Delta R.T. 0.00 min

Lab File: VX002737.D

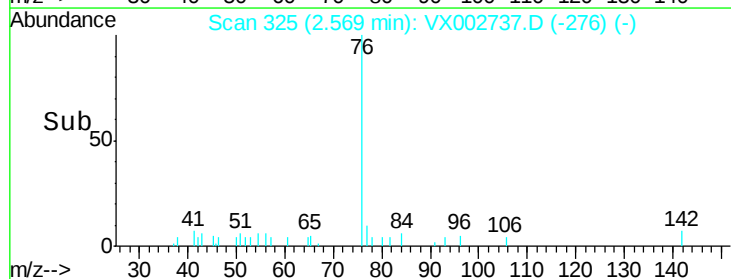
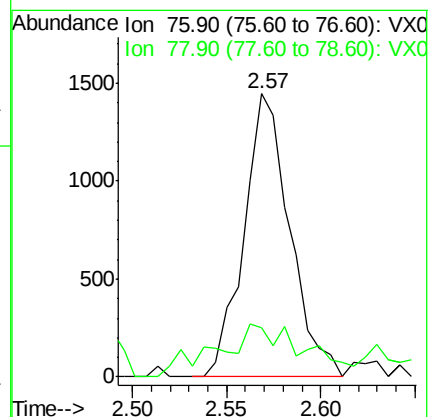
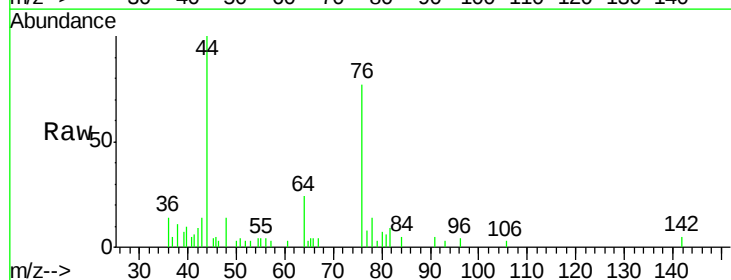
Acq: 20 Jun 2018 02:56

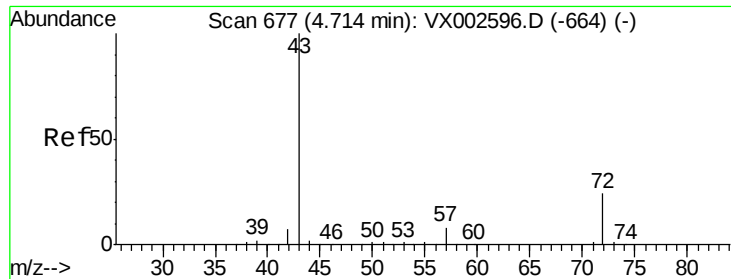
Tgt Ion: 76 Resp: 2442

Ion Ratio Lower Upper

76 100

78 13.8 6.9 10.3#





#25

2-Butanone

Concen: 0.38 ug/l

RT: 4.72 min Scan# 678

Delta R.T. 0.01 min

Lab File: VX002737.D

Acq: 20 Jun 2018 02:56

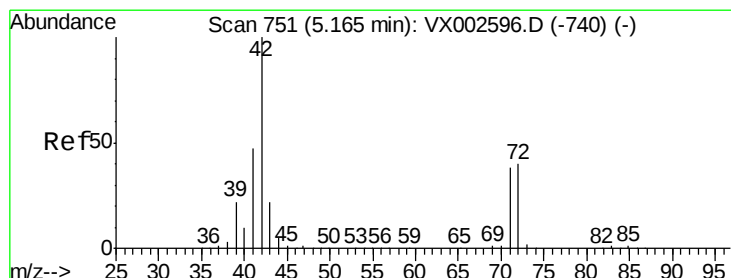
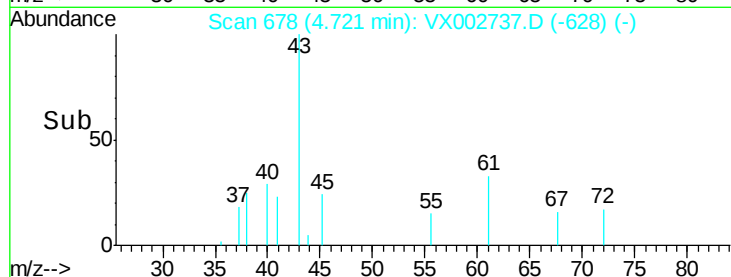
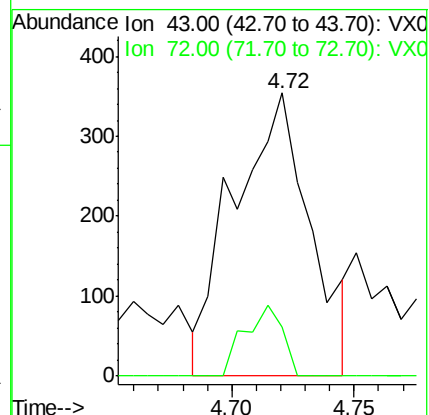
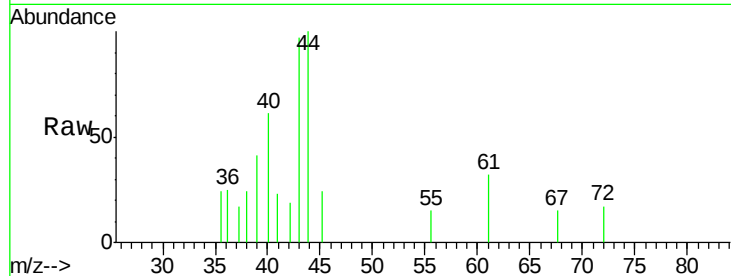
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 43 Resp: 766

Ion Ratio Lower Upper

43 100

72 20.3 18.5 27.7



#29

Tetrahydrofuran

Concen: 0.27 ug/l

RT: 5.17 min Scan# 752

Delta R.T. 0.01 min

Lab File: VX002737.D

Acq: 20 Jun 2018 02:56

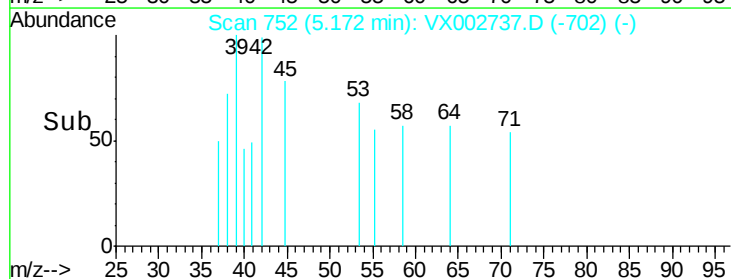
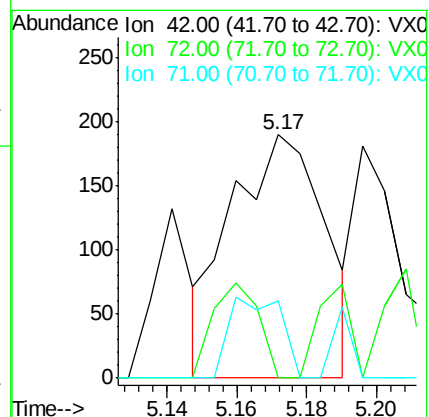
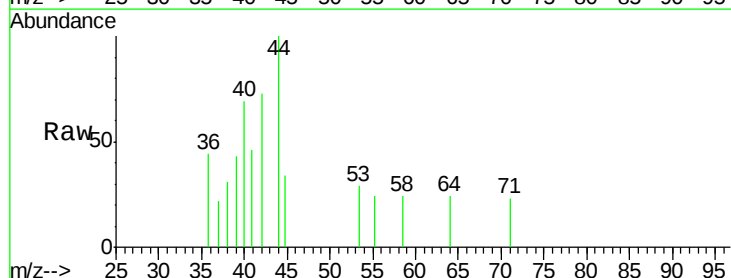
Tgt Ion: 42 Resp: 353

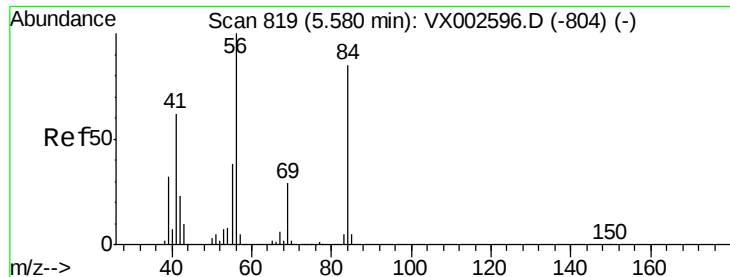
Ion Ratio Lower Upper

42 100

72 19.0 32.0 48.0#

71 18.1 30.1 45.1#

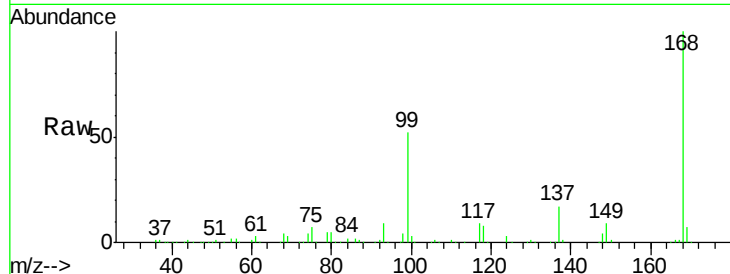




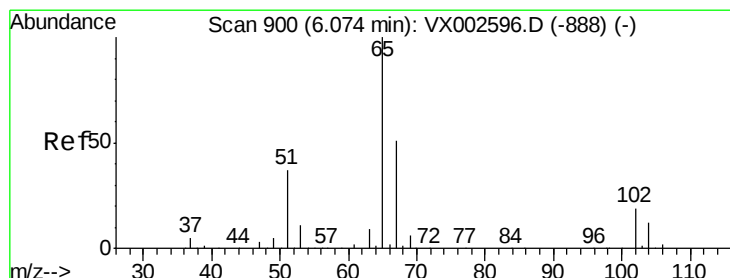
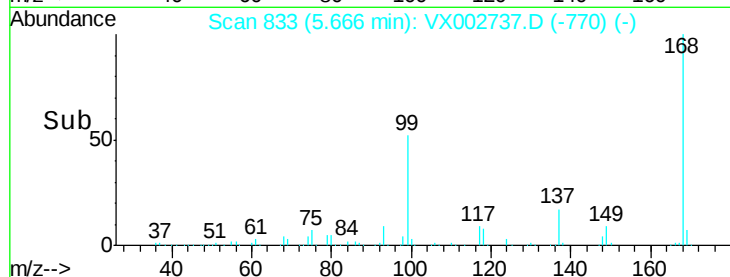
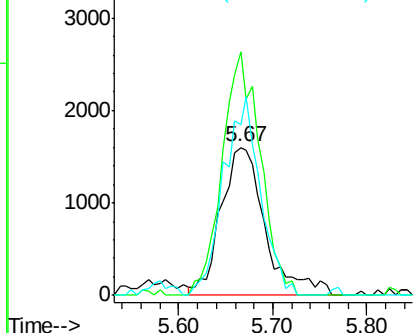
#31
Cyclohexane
Concen: 1.28 ug/l
RT: 5.67 min Scan# 833
Delta R.T. 0.09 min
Lab File: VX002737.D
Acq: 20 Jun 2018 02:56

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 56 Resp: 5220
Ion Ratio Lower Upper
56 100
69 164.3 23.7 35.5#
84 115.5 64.1 96.1#

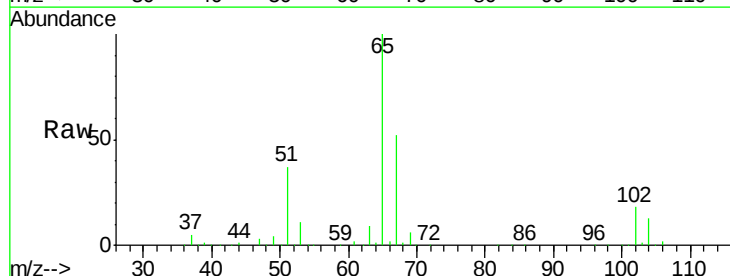


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

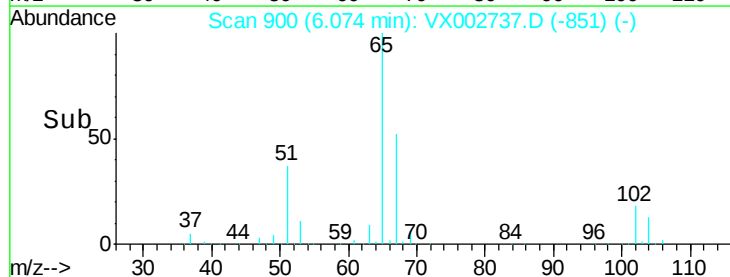
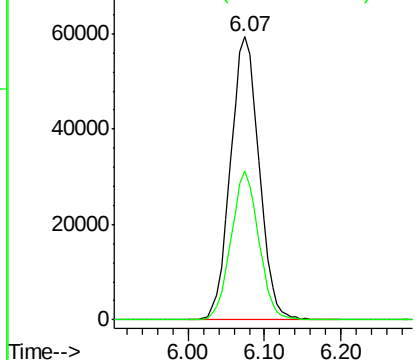


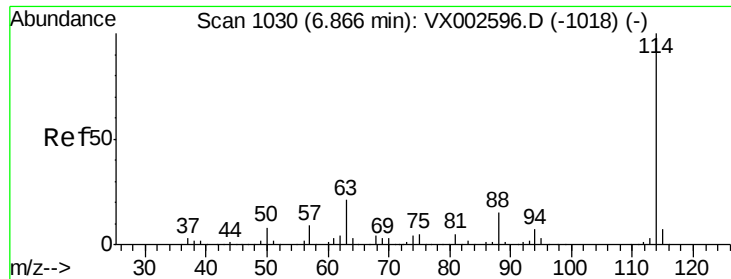
#33
1,2-Dichloroethane-d4
Concen: 44.35 ug/l
RT: 6.07 min Scan# 900
Delta R.T. 0.00 min
Lab File: VX002737.D
Acq: 20 Jun 2018 02:56

Tgt Ion: 65 Resp: 153528
Ion Ratio Lower Upper
65 100
67 51.1 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: VX002737.D

Acq: 20 Jun 2018 02:56

Instrument :
MSVOA_X
ClientSampleId :

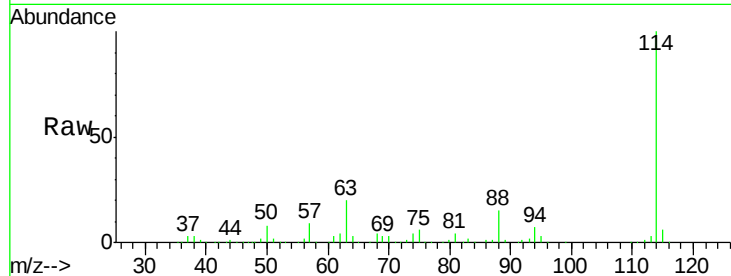
Tot Ion:114 Resp: 317815

Ion Ratio Lower Upper

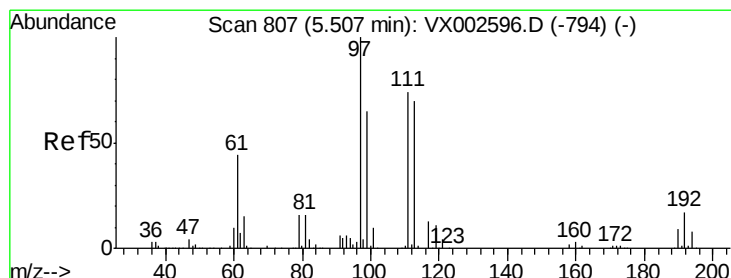
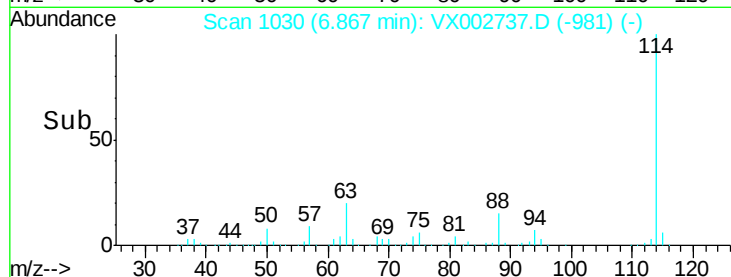
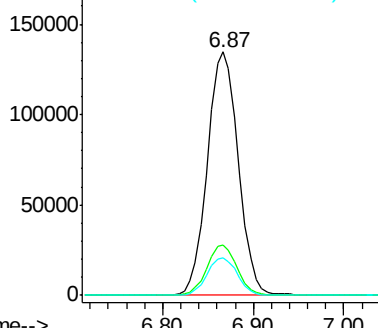
114 100

63 20.5 0.0 41.4

88 15.2 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: 47.44 ug/l

RT: 5.51 min Scan# 807

Delta R.T. 0.00 min

Lab File: VX002737.D

Acq: 20 Jun 2018 02:56

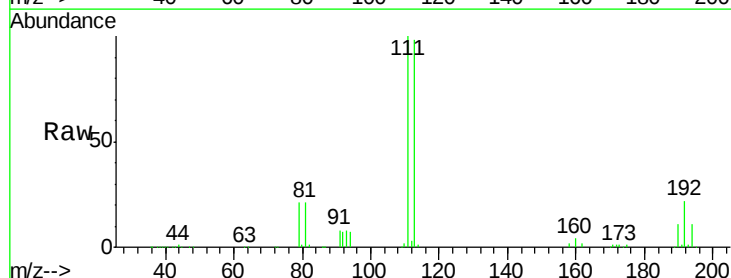
Tgt Ion:113 Resp: 120330

Ion Ratio Lower Upper

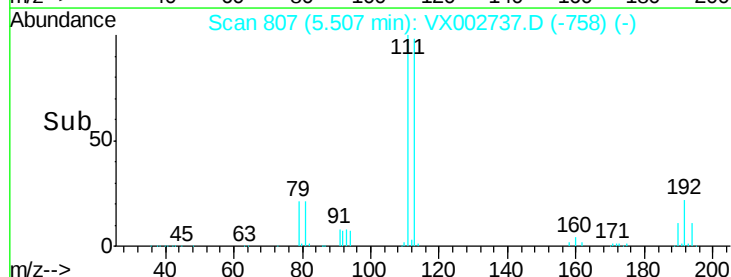
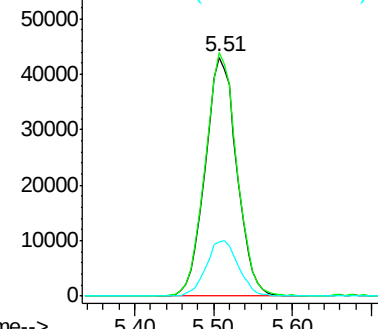
113 100

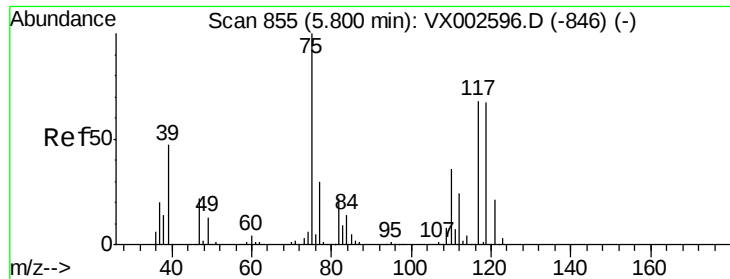
111 101.7 81.4 122.0

192 23.7 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

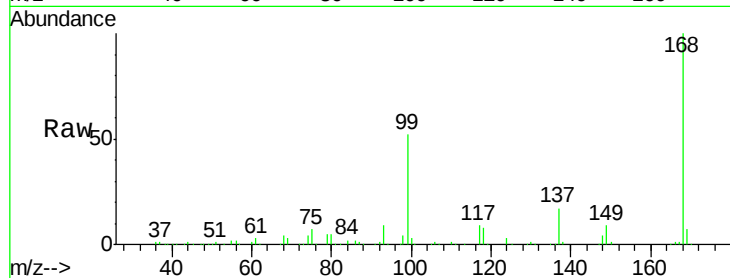




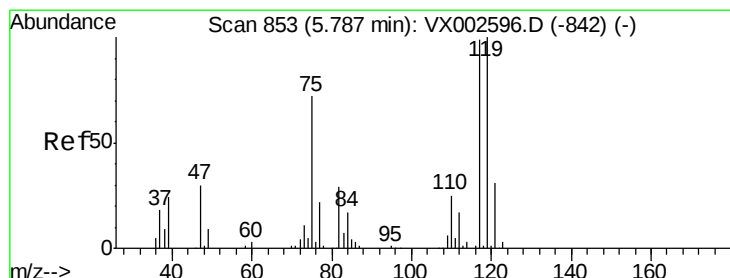
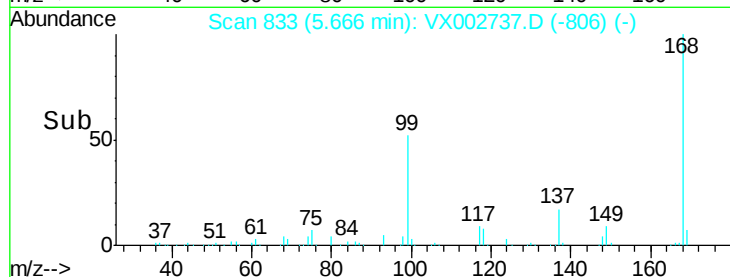
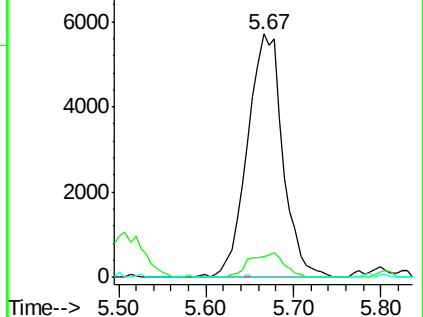
#36
 1,1-Dichloropropene
 Concen: 4.77 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.13 min
 Lab File: VX002737.D
 Acq: 20 Jun 2018 02:56

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion: 75 Resp: 16104
 Ion Ratio Lower Upper
 75 100
 110 10.1 18.1 54.4#
 77 0.0 24.3 36.5#

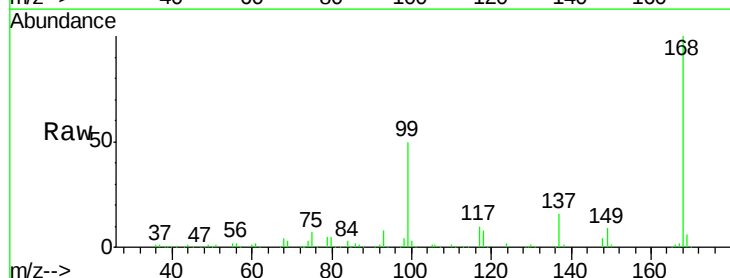


Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VX0

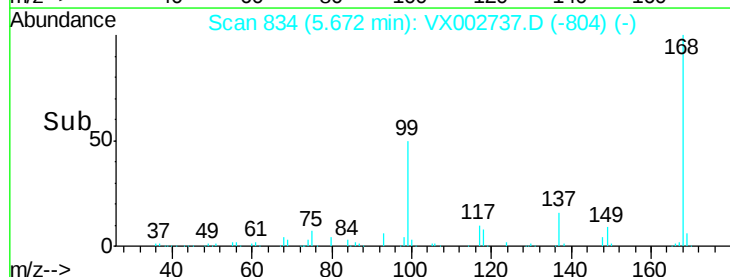
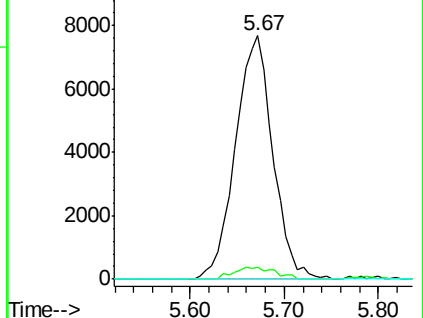


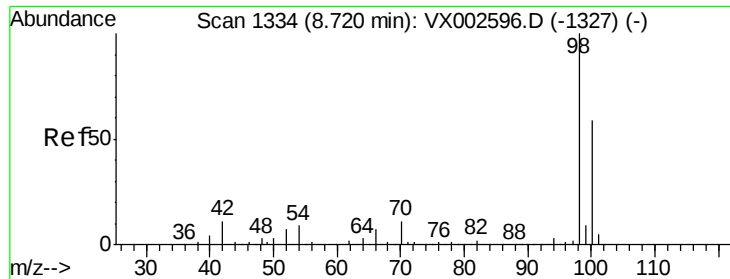
#38
 Carbon Tetrachloride
 Concen: 6.31 ug/l
 RT: 5.67 min Scan# 834
 Delta R.T. -0.12 min
 Lab File: VX002737.D
 Acq: 20 Jun 2018 02:56

Tgt Ion:117 Resp: 21202
 Ion Ratio Lower Upper
 117 100
 119 4.8 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

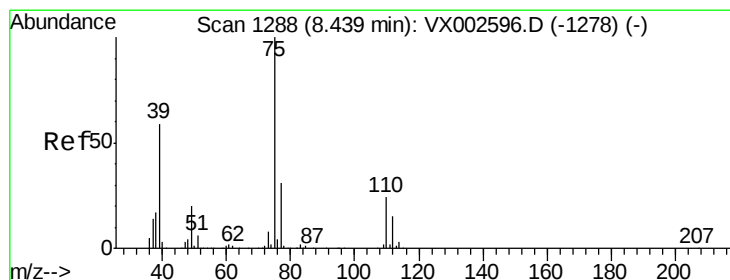
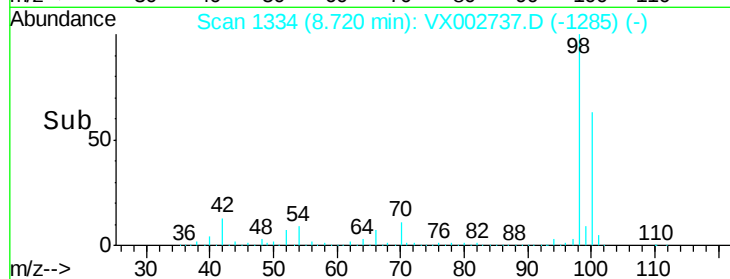
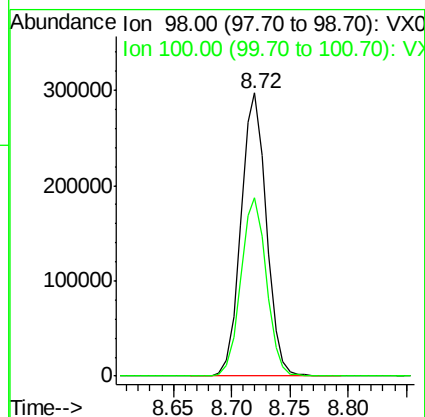
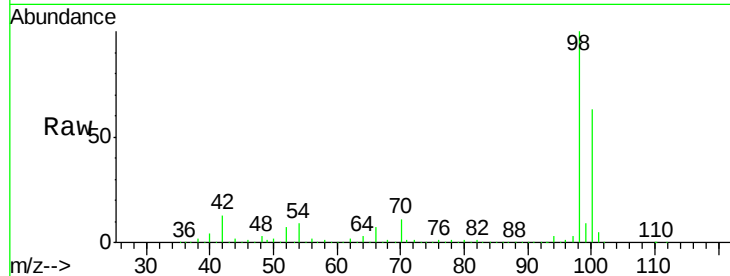




#50
Toluene-d8
Concen: 47.15 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VX002737.D
Acq: 20 Jun 2018 02:56

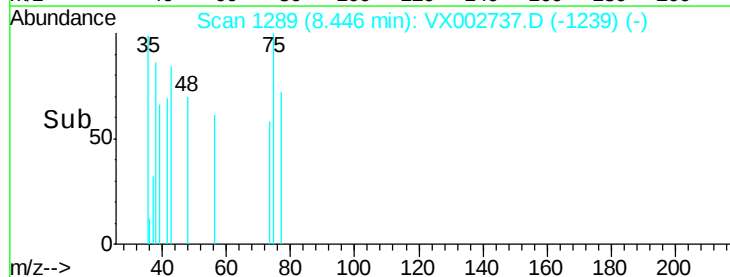
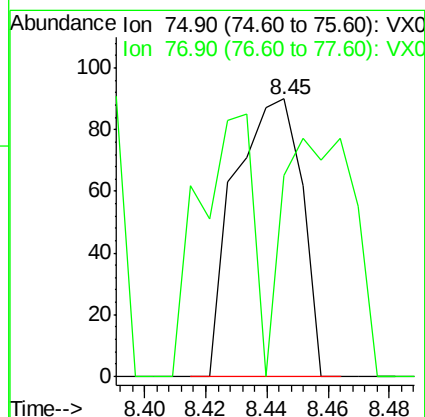
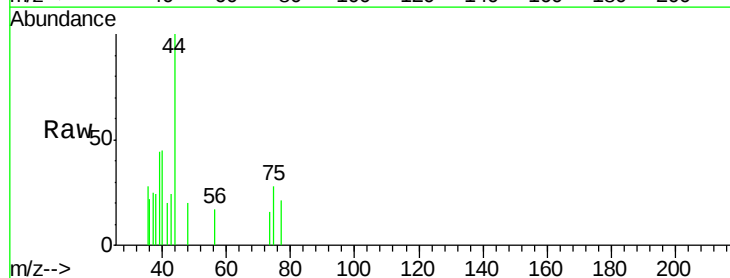
Instrument :
MSVOA_X
ClientSampled :

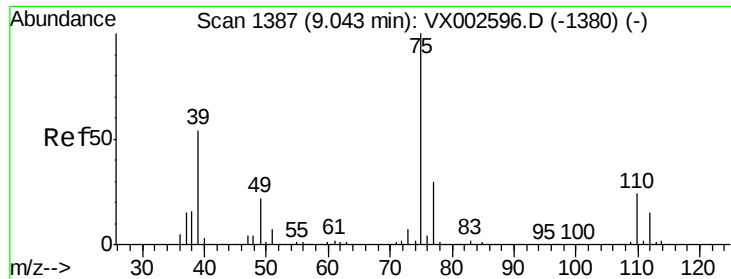
Tot Ion: 98 Resp: 454085
Ion Ratio Lower Upper
98 100
100 63.3 50.9 76.3



#53
t-1,3-Dichloropropene
Concen: 2.42 ug/l
RT: 8.45 min Scan# 1289
Delta R.T. 0.01 min
Lab File: VX002737.D
Acq: 20 Jun 2018 02:56

Tgt Ion: 75 Resp: 136
Ion Ratio Lower Upper
75 100
77 3.3 25.4 38.2#



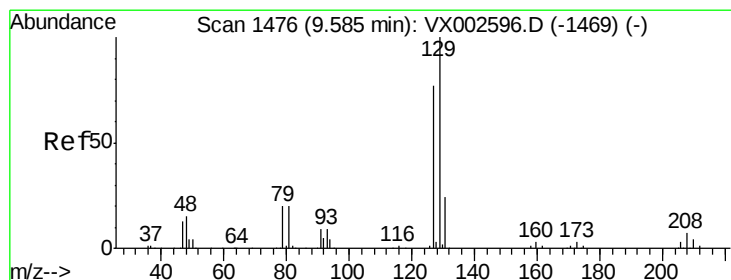
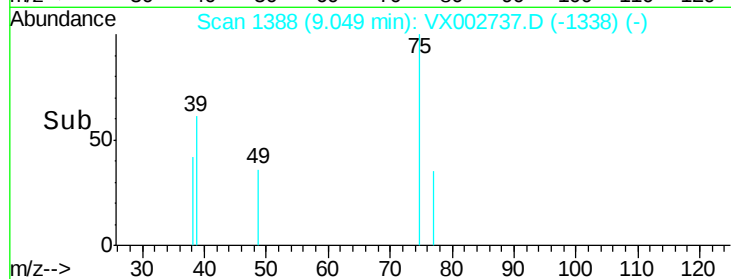
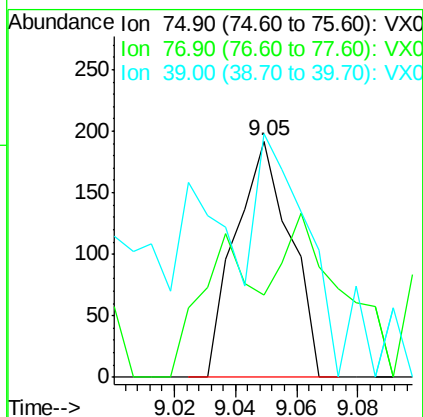
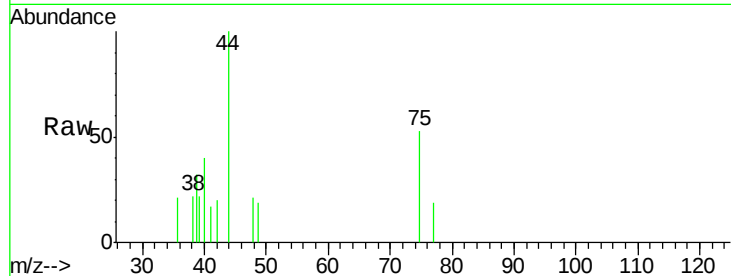


#54

cis-1,3-Dichloropropene
Concen: 3.27 ug/l
RT: 9.05 min Scan# 1388
Delta R.T. 0.01 min
Lab File: VX002737.D
Acq: 20 Jun 2018 02:56

Instrument :
MSVOA_X
ClientSampleId :

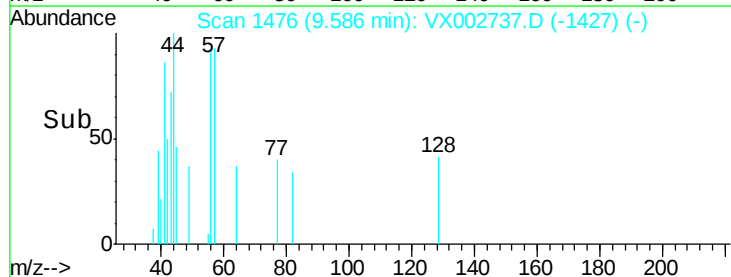
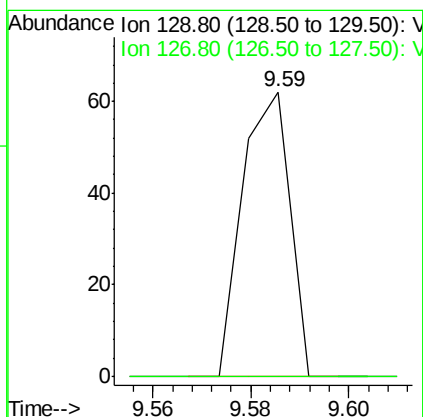
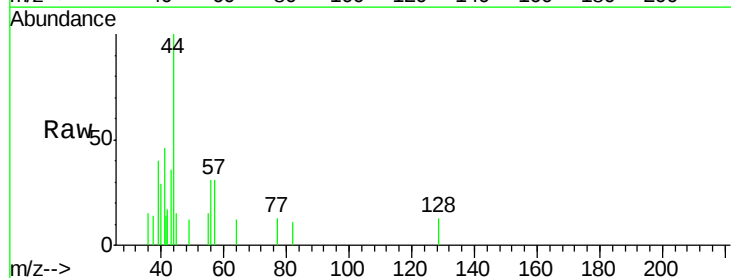
Tot Ion: 75 Resp: 238
Ion Ratio Lower Upper
75 100
77 5.7 24.8 37.2#
39 103.1 42.4 63.6#

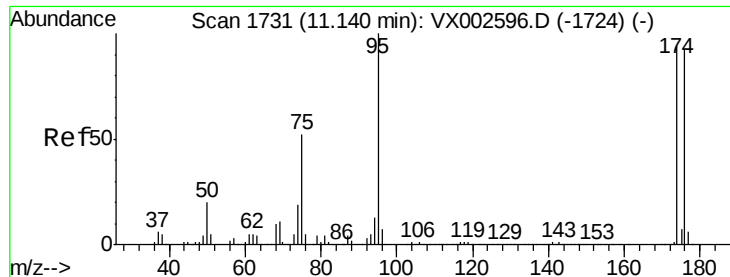


#60

Dibromochloromethane
Concen: 3.77 ug/l
RT: 9.59 min Scan# 1476
Delta R.T. 0.00 min
Lab File: VX002737.D
Acq: 20 Jun 2018 02:56

Tgt Ion: 129 Resp: 42
Ion Ratio Lower Upper
129 100
127 0.0 38.5 115.3#





#62

4-Bromofluorobenzene

Concen: 42.94 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX002737.D

Acq: 20 Jun 2018 02:56

Instrument :

MSVOA_X

ClientSampleId :

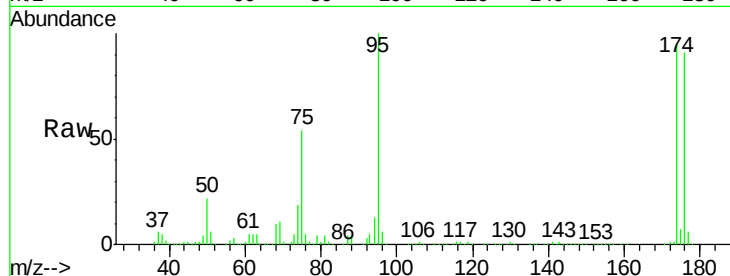
Tot Ion: 95 Resp: 156708

Ion Ratio Lower Upper

95 100

174 98.1 0.0 187.4

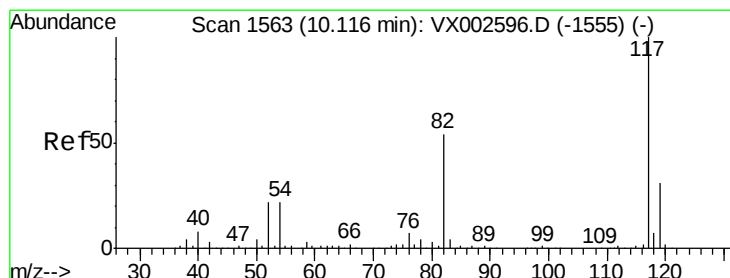
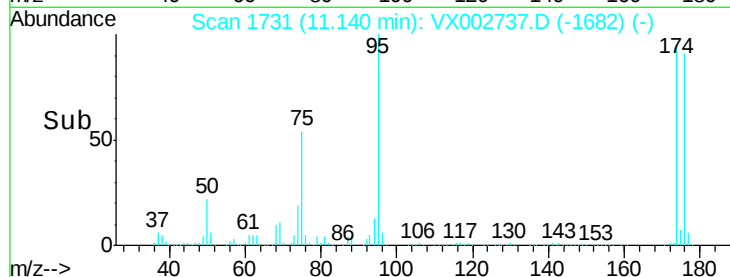
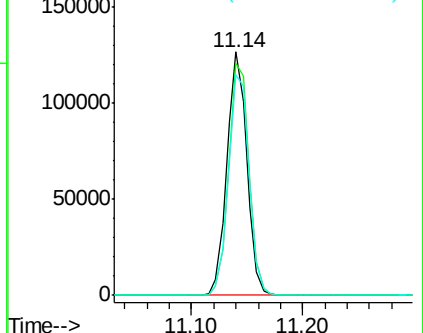
176 93.9 0.0 181.0



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: VX002737.D

Acq: 20 Jun 2018 02:56

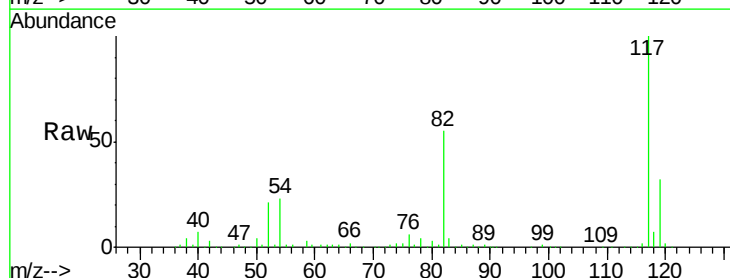
Tgt Ion: 117 Resp: 298131

Ion Ratio Lower Upper

117 100

82 54.9 45.0 67.4

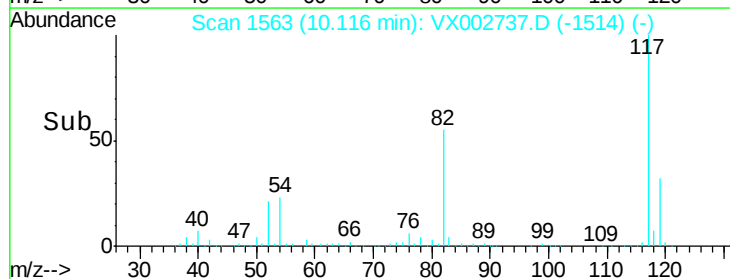
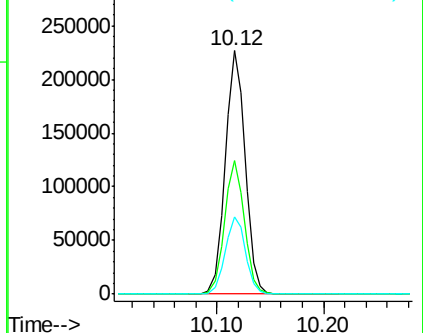
119 31.6 25.8 38.6

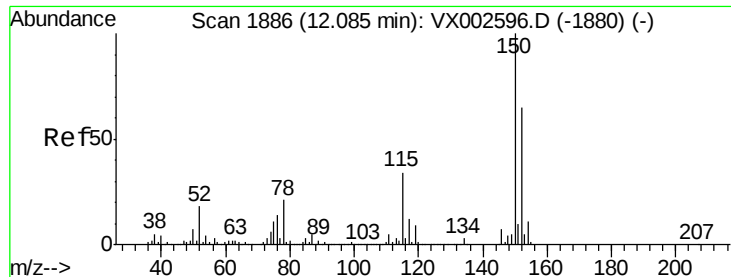


Abundance Ion 116.90 (116.60 to 117.60): V

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: 12.09 min Scan# 1886

Delta R.T. 0.00 min

Lab File: VX002737.D

Acq: 20 Jun 2018 02:56

Instrument :

MSVOA_X

ClientSampleId :

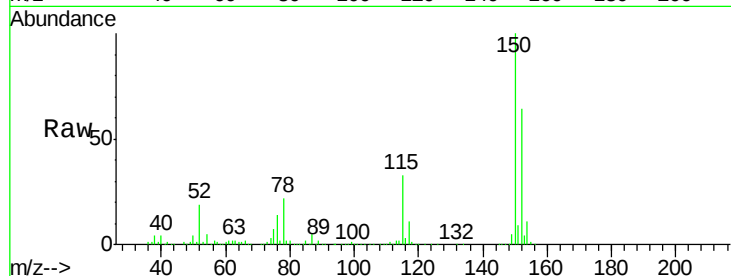
Tot Ion:152 Resp: 168218

Ion Ratio Lower Upper

152 100

115 54.3 40.1 120.2

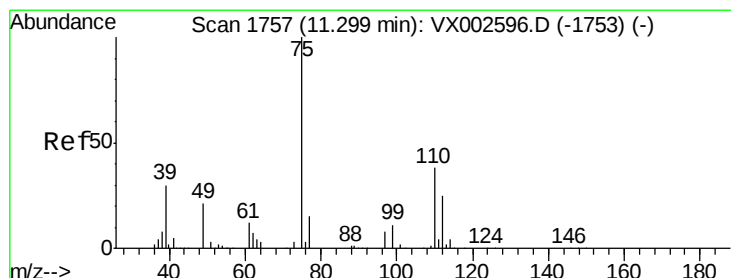
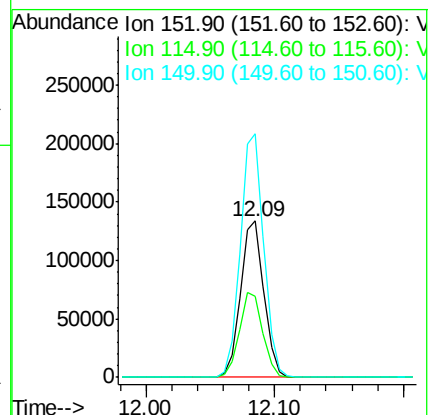
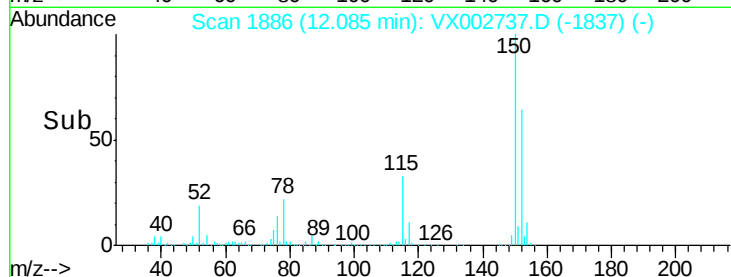
150 156.1 0.0 347.2



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: 26.24 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002737.D

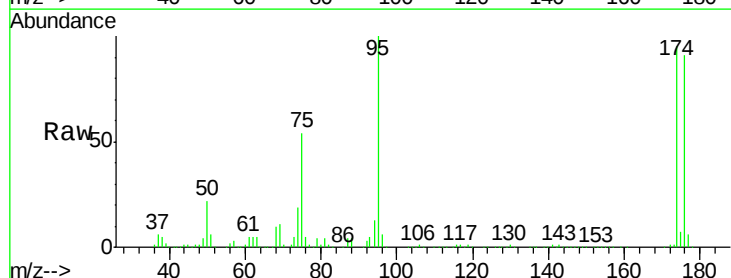
Acq: 20 Jun 2018 02:56

Tgt Ion: 75 Resp: 83304

Ion Ratio Lower Upper

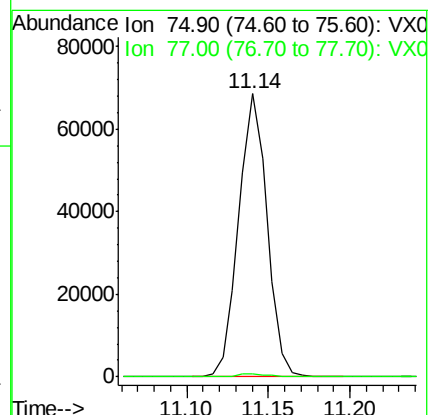
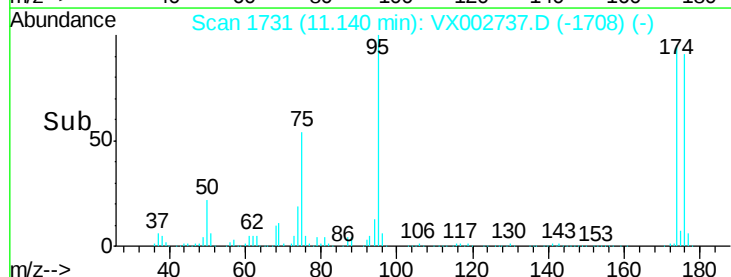
75 100

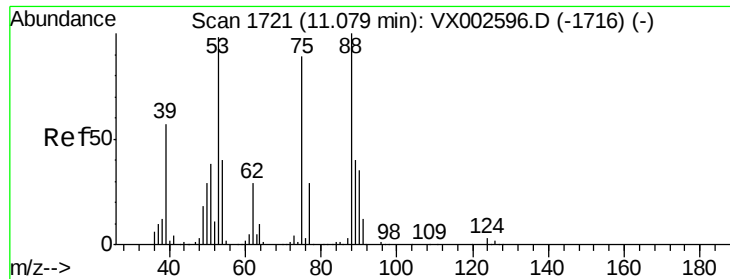
77 1.2 22.8 68.3#



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: 81.13 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002737.D

Acq: 20 Jun 2018 02:56

Instrument :

MSVOA_X

ClientSampleId :

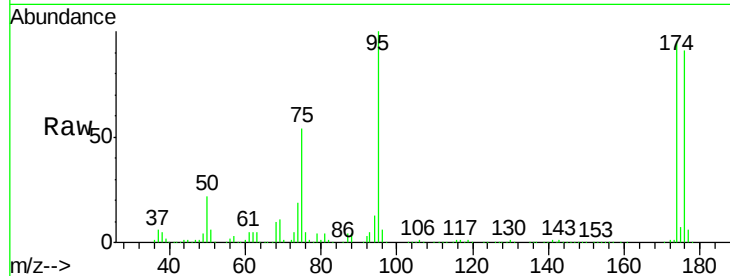
Tot Ion: 75 Resp: 83304

Ion Ratio Lower Upper

75 100

53 0.1 86.8 130.2#

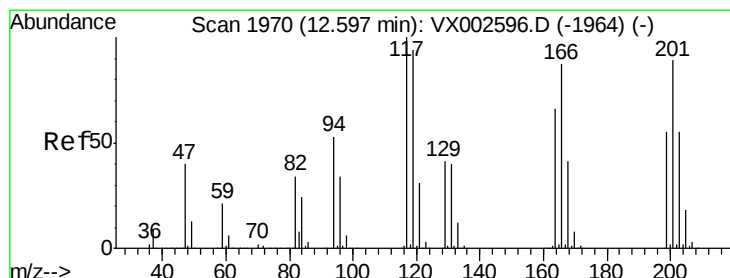
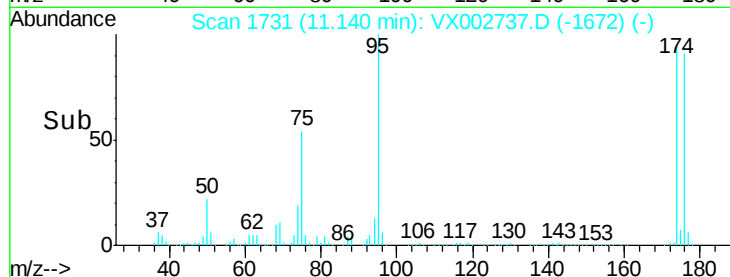
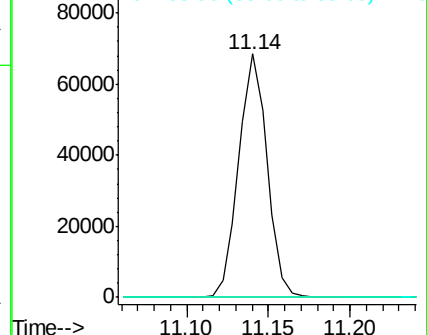
89 0.0 38.2 57.2#



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



#90

Hexachloroethane

Concen: 2.68 ug/l

RT: 12.60 min Scan# 1971

Delta R.T. 0.01 min

Lab File: VX002737.D

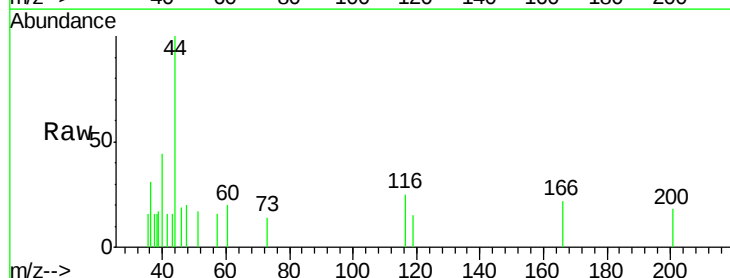
Acq: 20 Jun 2018 02:56

Tgt Ion: 117 Resp: 95

Ion Ratio Lower Upper

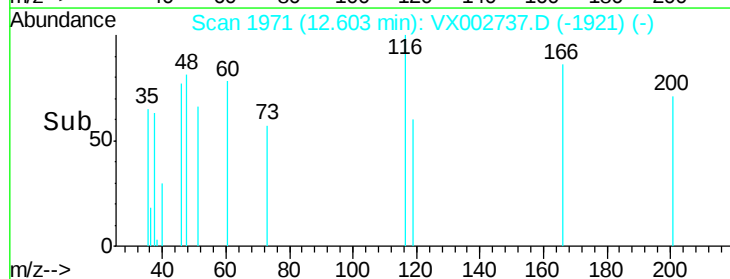
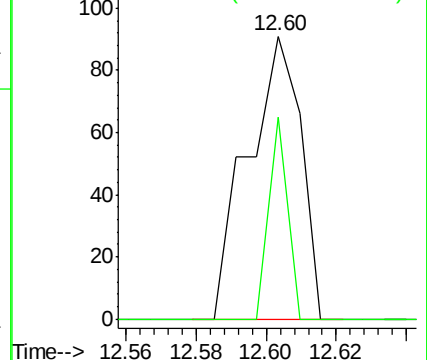
117 100

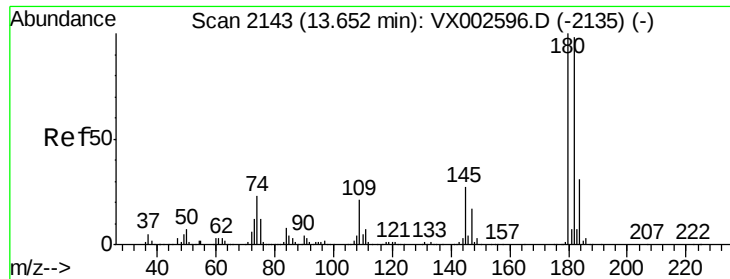
201 25.3 49.0 147.0#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

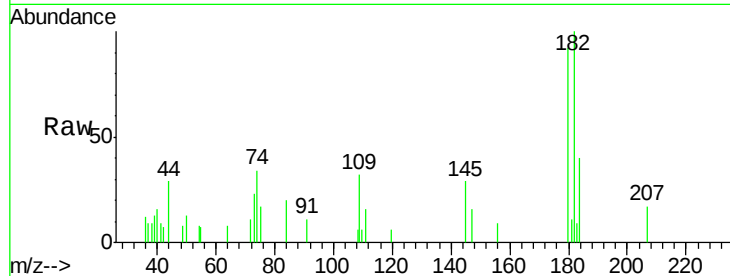




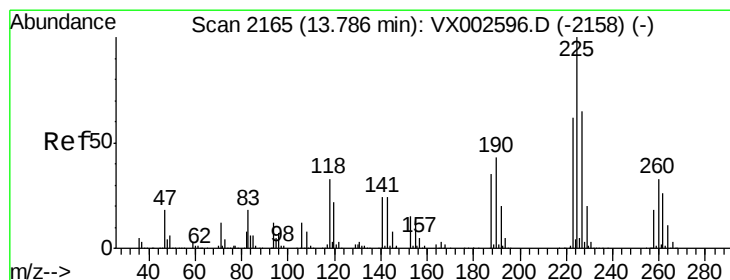
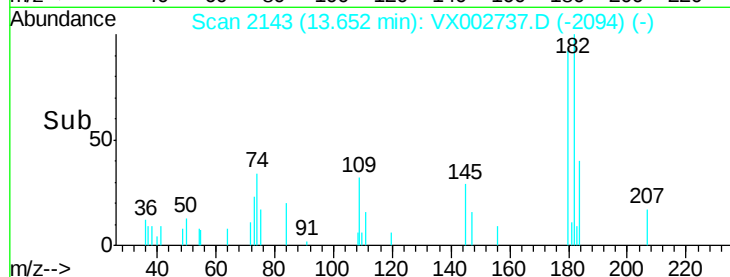
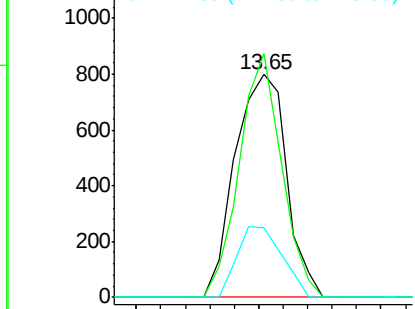
#93
 1,2,4-Trichlorobenzene
 Concen: 0.28 ug/l
 RT: 13.65 min Scan# 2143
 Delta R.T. 0.00 min
 Lab File: VX002737.D
 Acq: 20 Jun 2018 02:56

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion:180 Resp: 1164
 Ion Ratio Lower Upper
 180 100
 182 90.0 47.7 143.1
 145 27.6 14.1 42.4

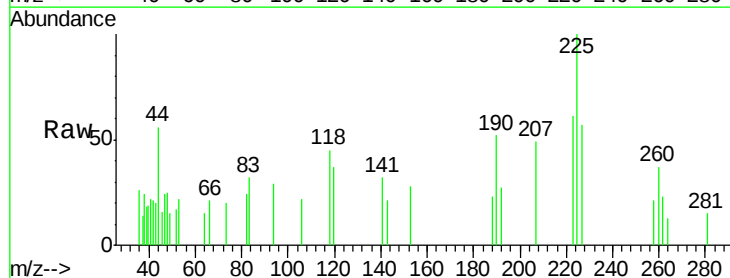


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

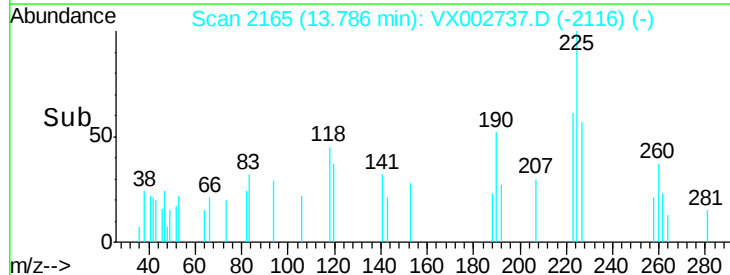
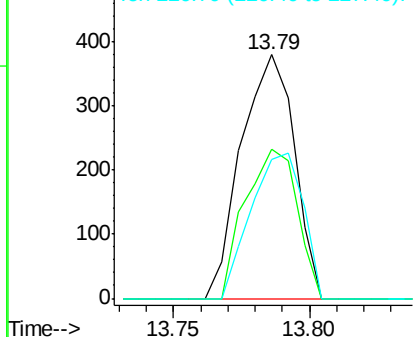


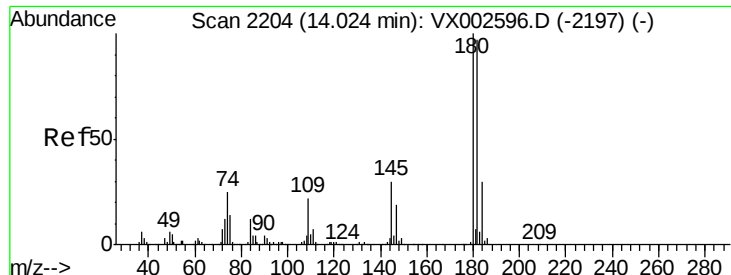
#94
 Hexachlorobutadiene
 Concen: 0.23 ug/l
 RT: 13.79 min Scan# 2165
 Delta R.T. 0.00 min
 Lab File: VX002737.D
 Acq: 20 Jun 2018 02:56

Tgt Ion:225 Resp: 513
 Ion Ratio Lower Upper
 225 100
 223 60.0 31.6 95.0
 227 58.5 32.4 97.2



Abundance Ion 224.70 (224.40 to 225.40): V
 Ion 222.70 (222.40 to 223.40): V
 Ion 226.70 (226.40 to 227.40): V





#96
 1,2,3-Trichlorobenzene
 Concen: 0.21 ug/l
 RT: 14.02 min Scan# 2204
 Delta R.T. 0.00 min
 Lab File: VX002737.D
 Acq: 20 Jun 2018 02:56

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion:180 Resp: 888
 Ion Ratio Lower Upper
 180 100
 182 102.6 48.0 144.0
 145 41.0 14.8 44.3

