

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX122718\
 Data File : VX006842.D
 Acq On : 27 Dec 2018 15:09
 Operator : JC/MD
 Sample : PB115999TB
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Dec 28 03:20:57 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121818W.M
 Quant Title : SW846 8260
 QLast Update : Wed Dec 19 15:20:58 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	692748	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	1032683	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	945157	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	455451	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.07	65	346803	46.45	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.90%	
35) Dibromofluoromethane	5.50	113	309762	47.43	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.86%	
50) Toluene-d8	8.71	98	1209761	49.14	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.28%	
62) 4-Bromofluorobenzene	11.13	95	434933	48.24	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.48%	

Target Compounds

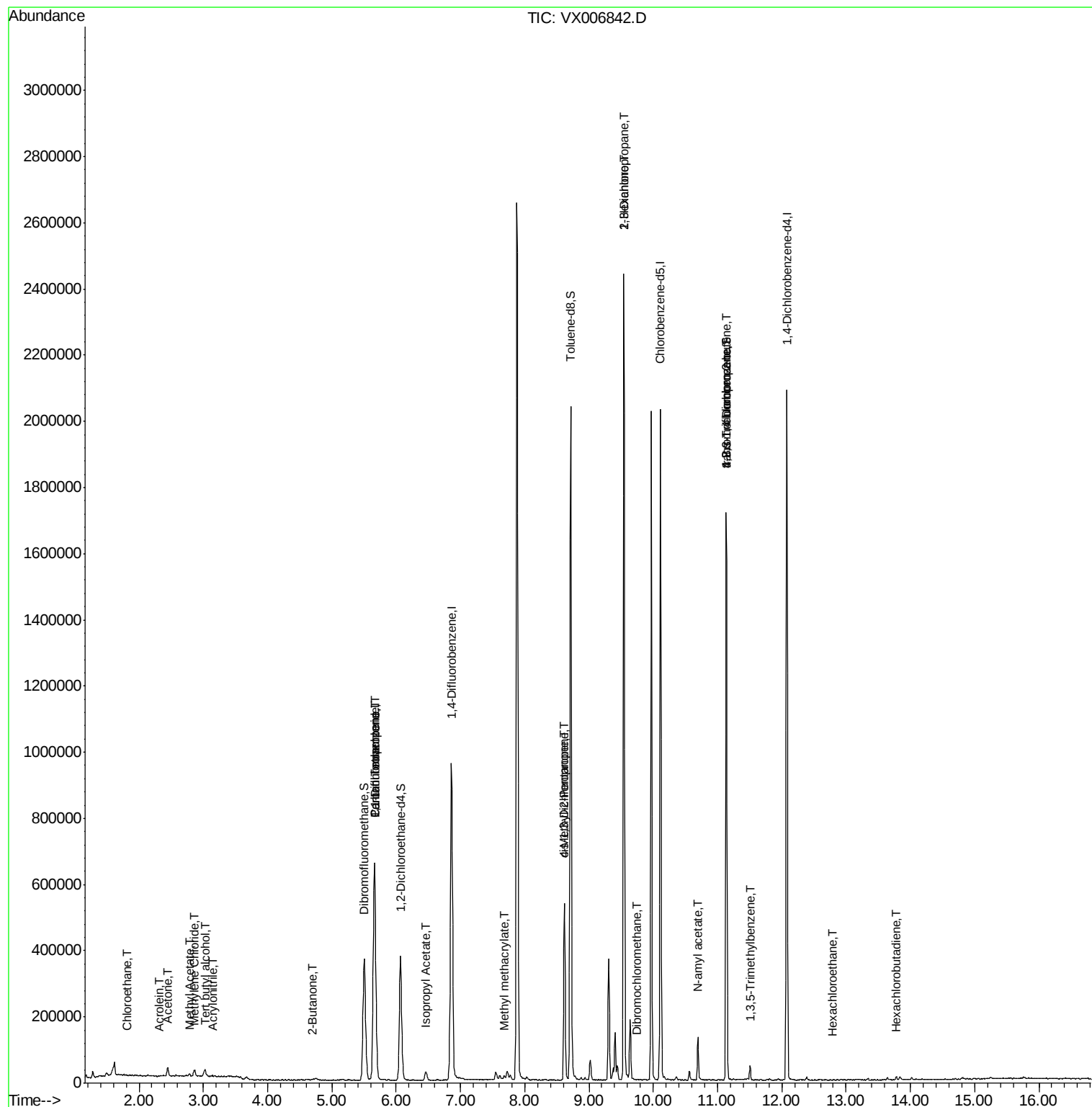
					Qvalue	
5) Bromomethane	1.64	94	566	Below Cal	#	75
6) Chloroethane	1.82	64	1137	0.230	ug/l #	51
11) Tert butyl alcohol	3.02	59	11958	7.177	ug/l #	76
13) Acrolein	2.31	56	599	0.533	ug/l #	13
15) Acrylonitrile	3.15	53	838	0.227	ug/l #	79
16) Acetone	2.45	43	27425	7.995	ug/l	98
18) Methyl Acetate	2.78	43	9003	0.893	ug/l	92
20) Methylene Chloride	2.86	84	8777	1.237	ug/l	89
25) 2-Butanone	4.70	43	4606	0.955	ug/l #	69
28) Bromochloromethane	5.03	49	164	Below Cal	#	45
36) 1,1-Dichloropropene	5.67	75	44204	5.168	ug/l #	49
38) Carbon Tetrachloride	5.66	117	62508	7.520	ug/l #	16
43) Isopropyl Acetate	6.46	43	34344	2.536	ug/l	99
48) Methyl methacrylate	7.68	41	14659	2.128	ug/l #	12
49) 1,4-Dioxane	7.74	88	24	Below Cal	#	27
51) 4-Methyl-2-Pentanone	8.62	43	172746	20.044	ug/l #	48
54) cis-1,3-Dichloropropene	8.62	75	90158	9.916	ug/l #	61
57) 1,3-Dichloropropane	9.54	76	20689	1.870	ug/l #	47
59) 2-Hexanone	9.54	43	273338	41.453	ug/l #	51
60) Dibromochloromethane	9.74	129	23	2.327	ug/l	70
74) N-amyl acetate	10.69	43	31001	2.780	ug/l #	52
76) 1,2,3-Trichloropropane	11.13	75	204492	24.160	ug/l #	40
80) 1,3,5-Trimethylbenzene	11.51	105	17710	0.690	ug/l	98
81) trans-1,4-Dichloro-2-buten	11.13	75	204492	71.533	ug/l #	10
90) Hexachloroethane	12.79	117	82	3.311	ug/l	81
94) Hexachlorobutadiene	13.79	225	1417	0.287	ug/l	87

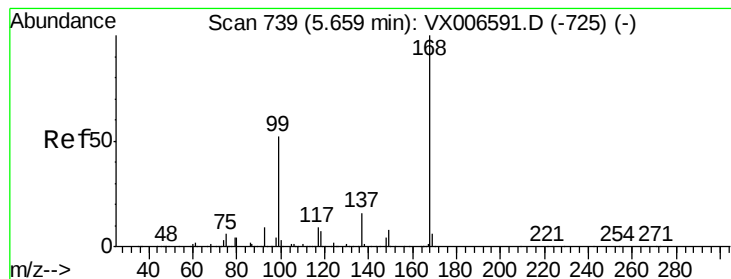
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampleId :

Quant Time: Dec 28 03:20:57 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X121818W.M
Quant Title : SW846 8260
QLast Update : Wed Dec 19 15:20:58 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX006842.D

Acq: 27 Dec 2018 15:09

Instrument :

MSVOA_X

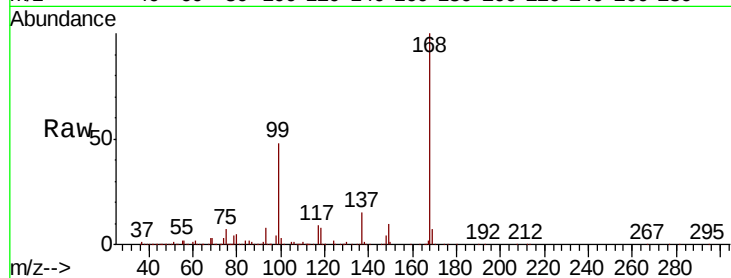
ClientSampled :

Tot Ion:168 Resp: 692748

Ion Ratio Lower Upper

168 100

99 48.3 41.8 62.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

250000

200000

150000

100000

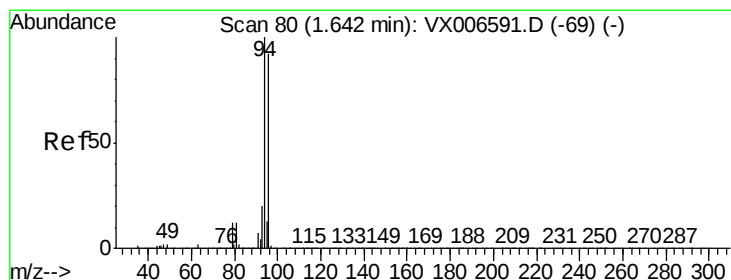
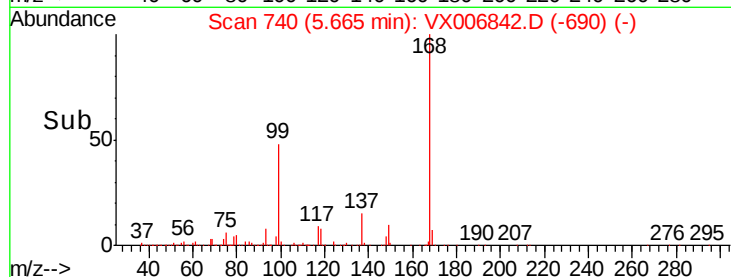
50000

0

5.67

5.50 5.60 5.70 5.80

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 80

Delta R.T. 0.00 min

Lab File: VX006842.D

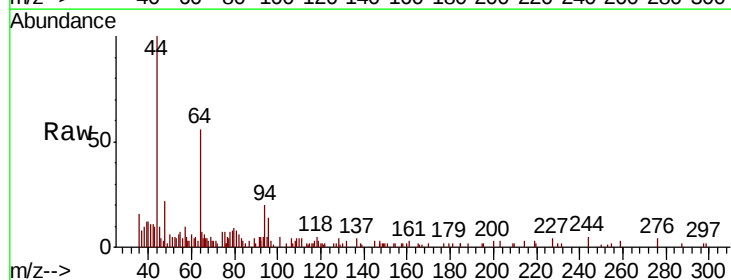
Acq: 27 Dec 2018 15:09

Tgt Ion: 94 Resp: 566

Ion Ratio Lower Upper

94 100

96 67.8 73.4 110.2#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

800

600

400

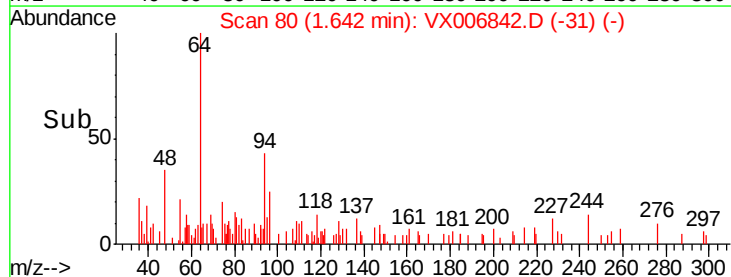
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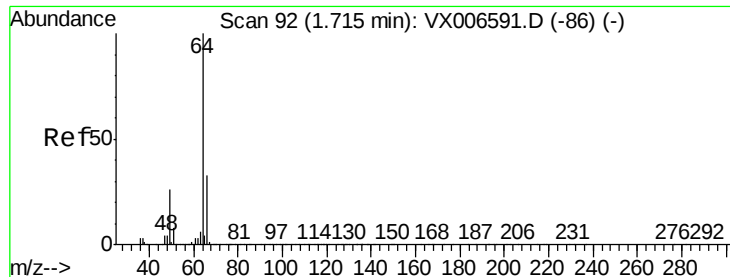
0

1.64

1.62 1.64 1.66 1.68

Time-->





#6

Chloroethane

Concen: 0.230 ug/l

RT: 1.82 min Scan# 109

Delta R.T. 0.10 min

Lab File: VX006842.D

Acq: 27 Dec 2018 15:09

Instrument :

MSVOA_X

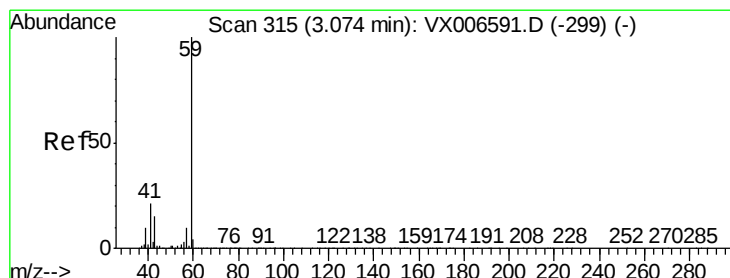
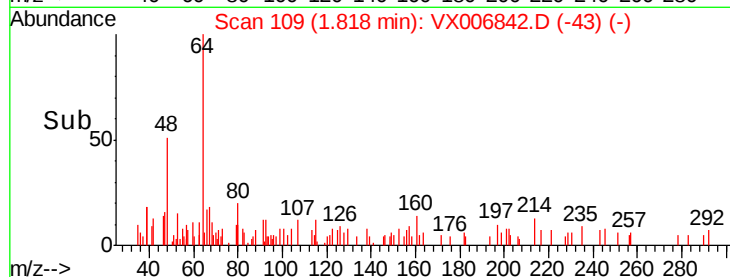
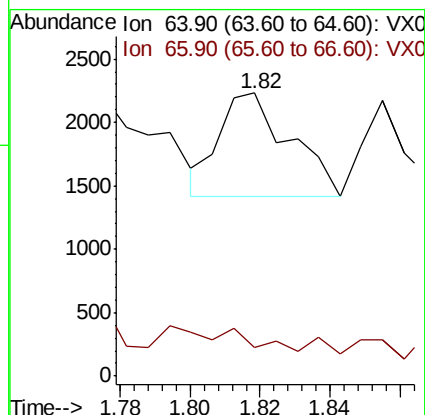
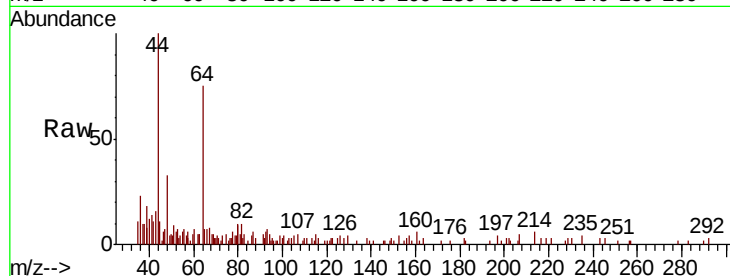
ClientSampleId :

Tot Ion: 64 Resp: 1137

Ion Ratio Lower Upper

64 100

66 5.2 26.4 39.6#



#11

Tert butyl alcohol

Concen: 7.177 ug/l

RT: 3.02 min Scan# 306

Delta R.T. -0.05 min

Lab File: VX006842.D

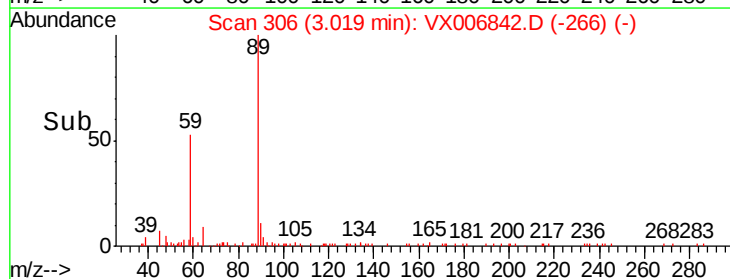
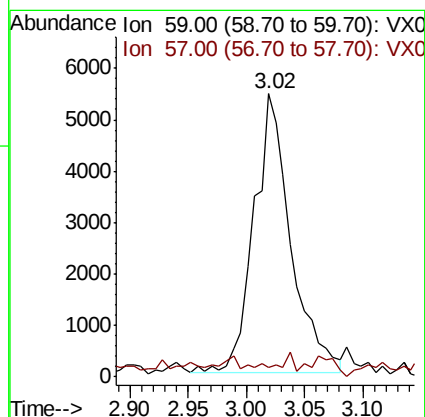
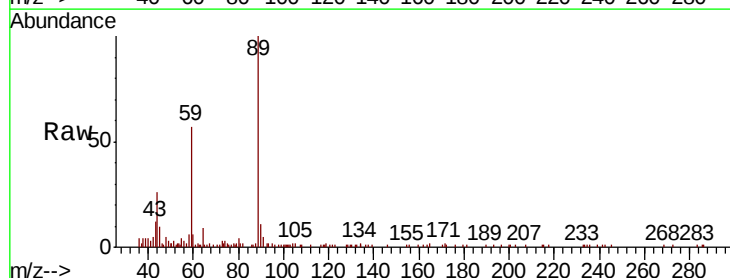
Acq: 27 Dec 2018 15:09

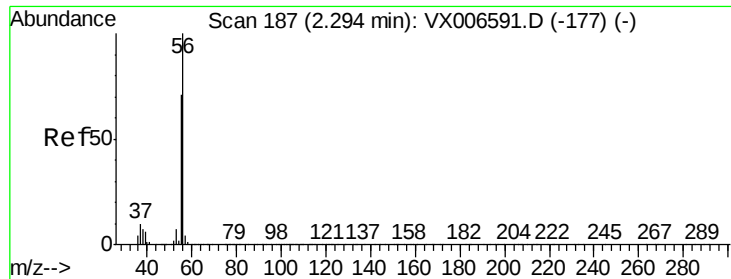
Tgt Ion: 59 Resp: 11958

Ion Ratio Lower Upper

59 100

57 1.7 8.5 12.7#

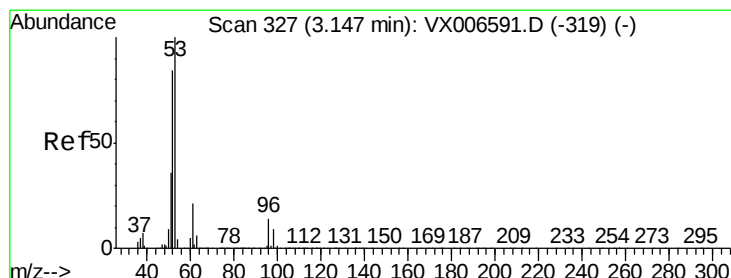
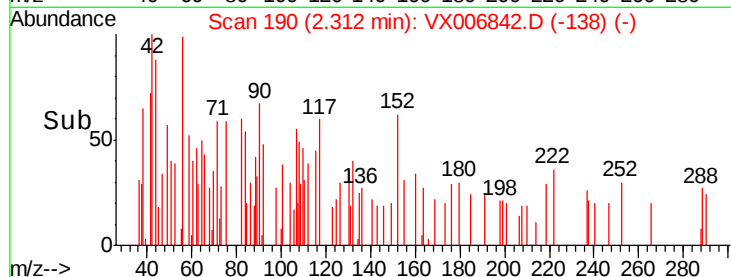
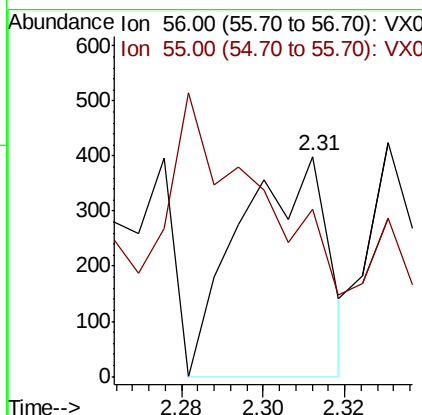
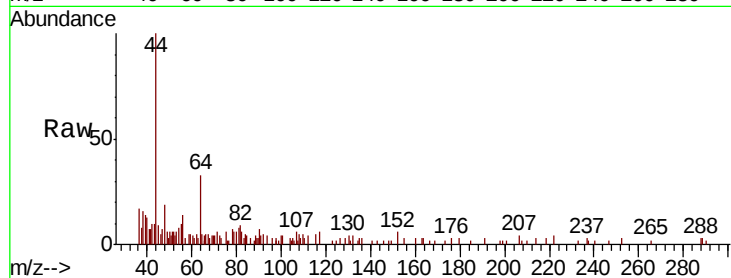




#13
Acrolein
Concen: 0.533 ug/l
RT: 2.31 min Scan# 190
Delta R.T. 0.02 min
Lab File: VX006842.D
Acq: 27 Dec 2018 15:09

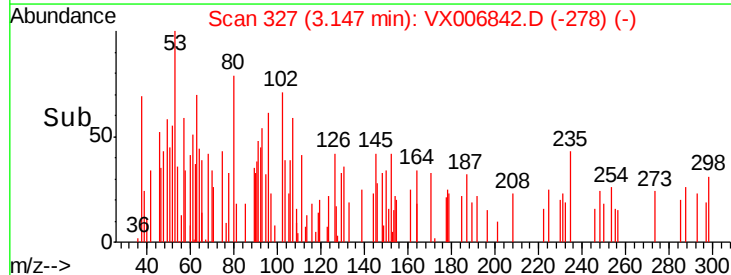
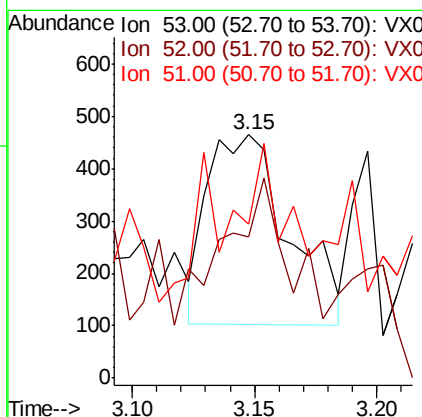
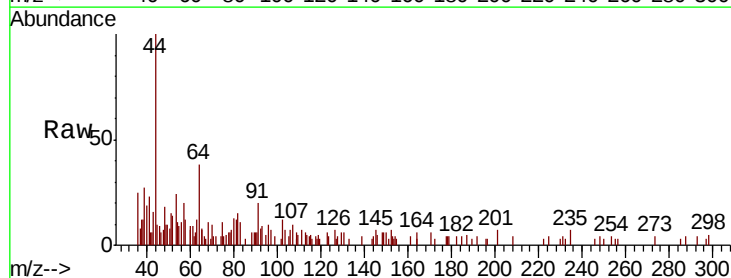
Instrument :
MSVOA_X
ClientSampled :

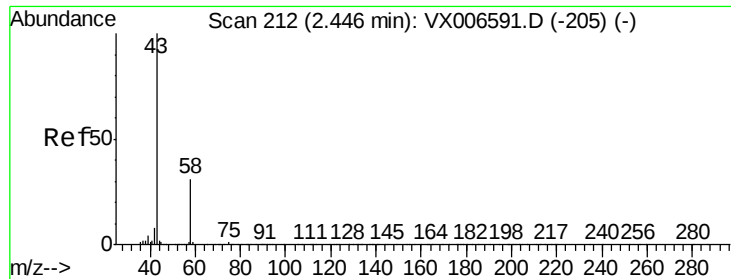
Tot Ion: 56 Resp: 599
Ion Ratio Lower Upper
56 100
55 0.0 58.2 87.4#



#15
Acrylonitrile
Concen: 0.227 ug/l
RT: 3.15 min Scan# 327
Delta R.T. 0.00 min
Lab File: VX006842.D
Acq: 27 Dec 2018 15:09

Tgt Ion: 53 Resp: 838
Ion Ratio Lower Upper
53 100
52 59.3 66.0 99.0#
51 29.1 28.6 42.8

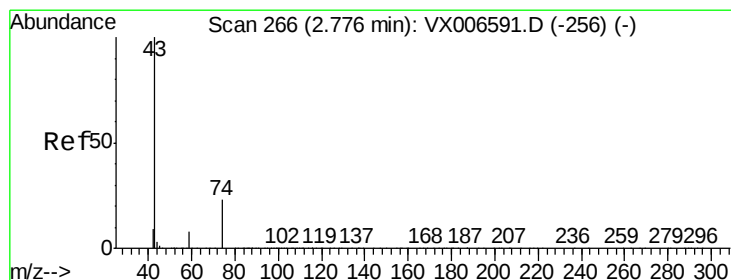
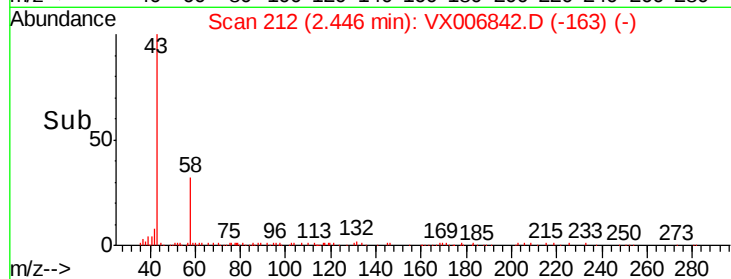
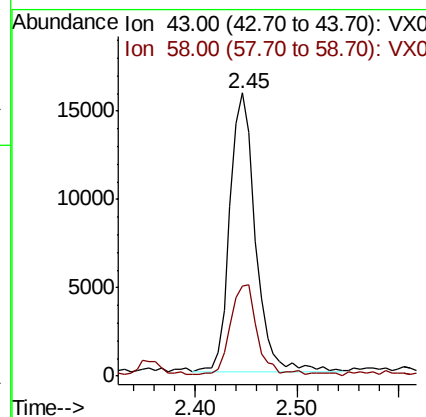
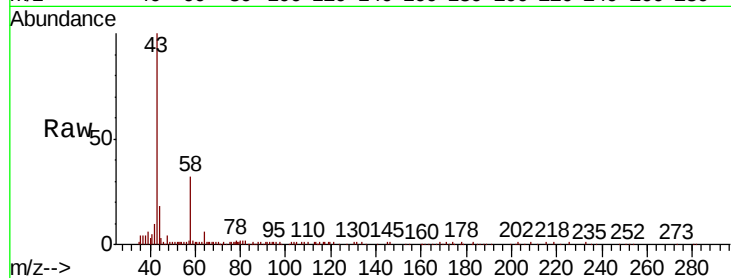




#16
Acetone
Concen: 7.995 ug/l
RT: 2.45 min Scan# 212
Delta R.T. 0.00 min
Lab File: VX006842.D
Acq: 27 Dec 2018 15:09

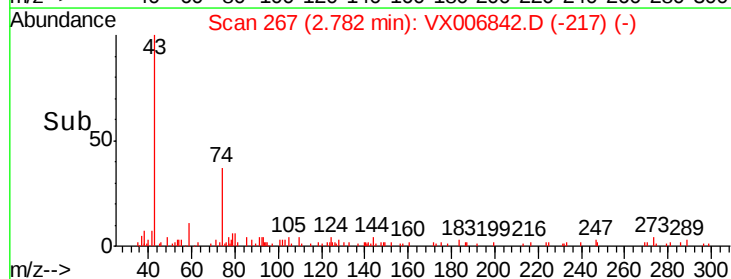
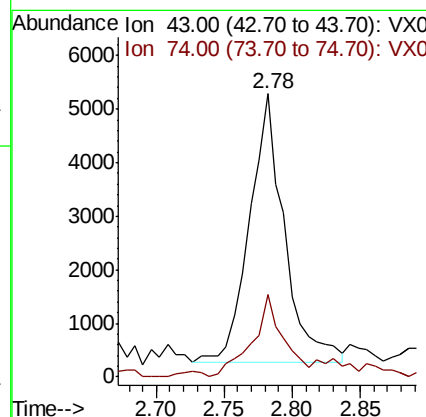
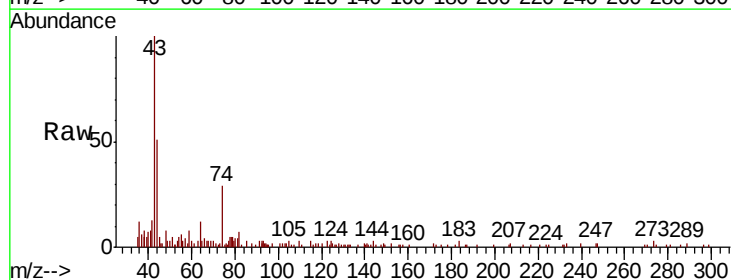
Instrument :
MSVOA_X
ClientSampleId :

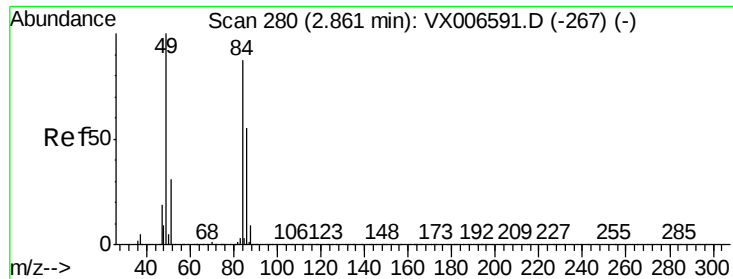
Tot Ion: 43 Resp: 27425
Ion Ratio Lower Upper
43 100
58 32.2 25.0 37.6



#18
Methyl Acetate
Concen: 0.893 ug/l
RT: 2.78 min Scan# 267
Delta R.T. 0.01 min
Lab File: VX006842.D
Acq: 27 Dec 2018 15:09

Tgt Ion: 43 Resp: 9003
Ion Ratio Lower Upper
43 100
74 27.2 18.6 28.0

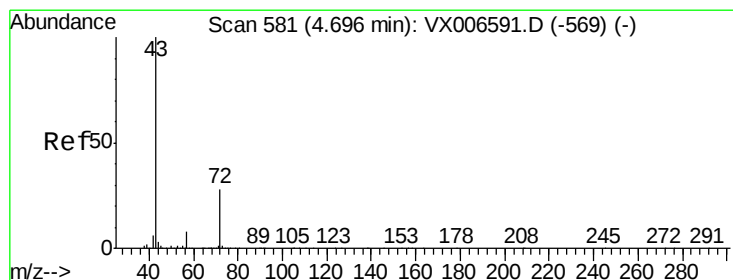
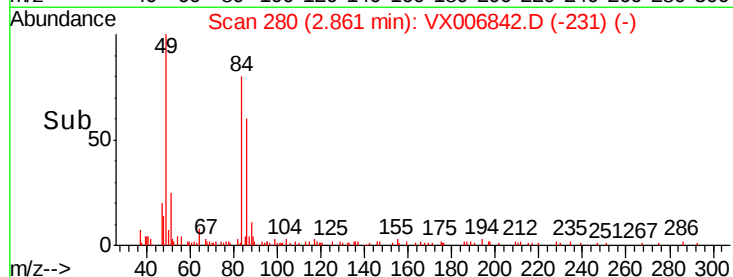
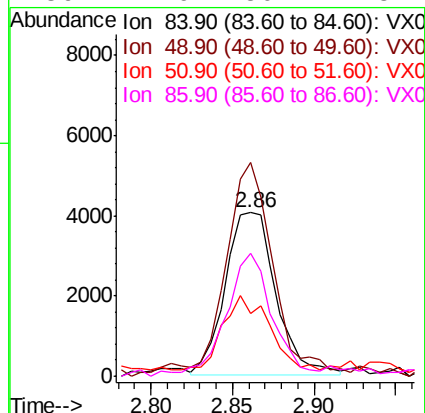
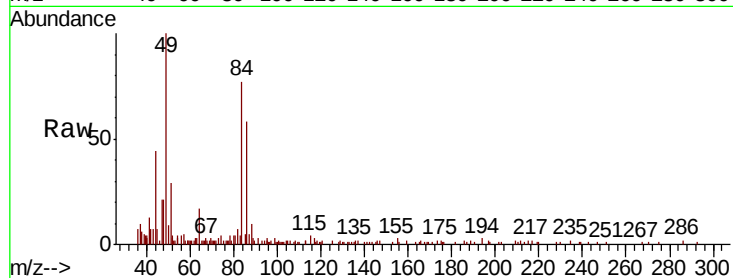




#20
Methvlene Chloride
Concen: 1.237 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.00 min
Lab File: VX006842.D
Acq: 27 Dec 2018 15:09

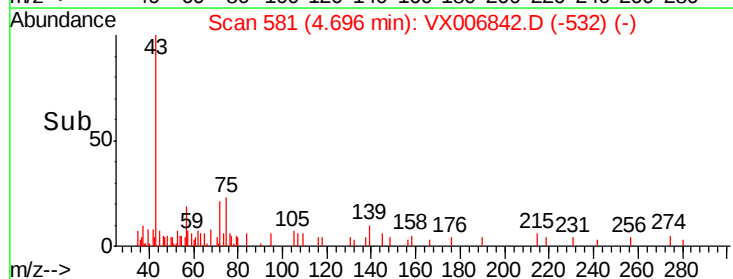
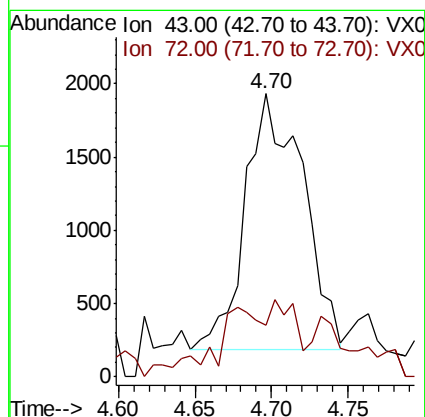
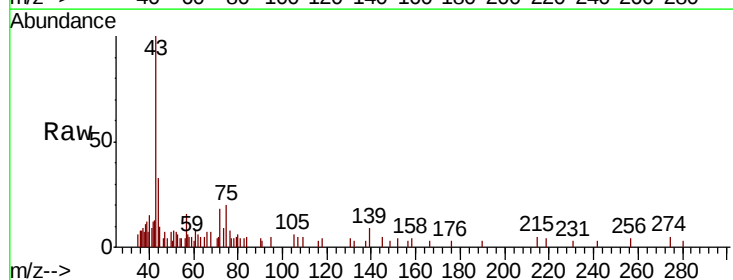
Instrument :
MSVOA_X
ClientSampleId :

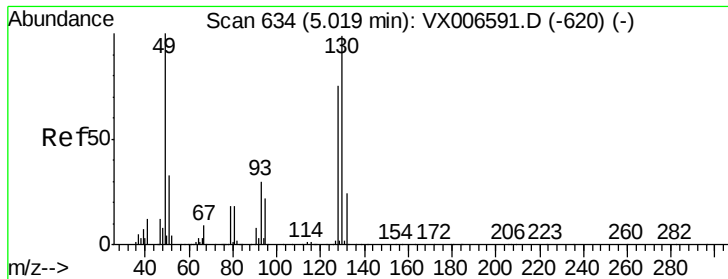
Tot Ion:	84	Resp:	8777
Ion	Ratio	Lower	Upper
84	100		
49	128.1	91.8	137.6
51	33.6	28.5	42.7
86	72.9	50.2	75.2



#25
2-Butanone
Concen: 0.955 ug/l
RT: 4.70 min Scan# 581
Delta R.T. 0.00 min
Lab File: VX006842.D
Acq: 27 Dec 2018 15:09

Tgt Ion:	43	Resp:	4606
Ion	Ratio	Lower	Upper
43	100		
72	11.8	22.4	33.6#





#28

Bromochloromethane

Concen: Below Cal

RT: 5.03 min Scan# 635

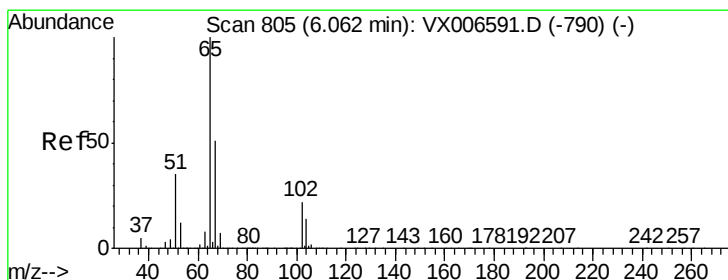
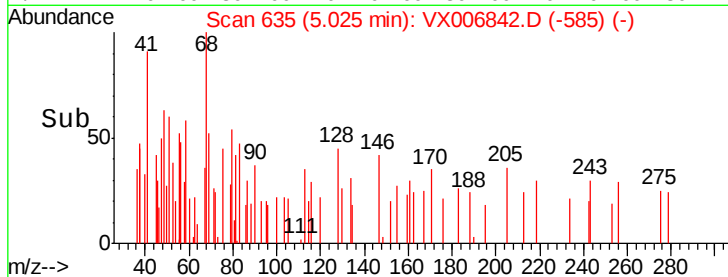
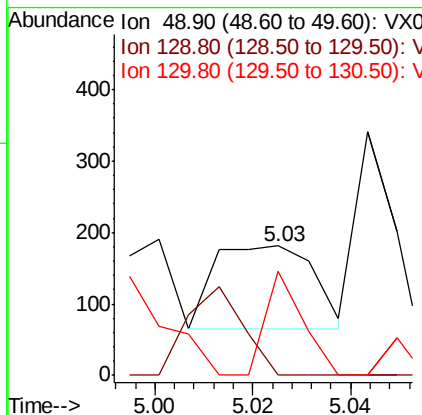
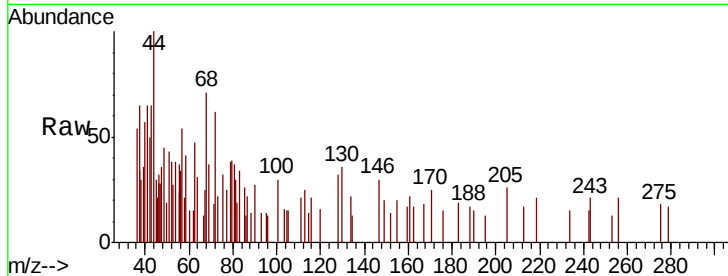
Delta R.T. 0.01 min

Lab File: VX006842.D

Acq: 27 Dec 2018 15:09

Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 49 Resp: 164
Ion Ratio Lower Upper
49 100
129 59.8 0.0 5.4#
130 45.7 77.7 116.5#



#33

1,2-Dichloroethane-d4

Concen: 46.450 ug/l

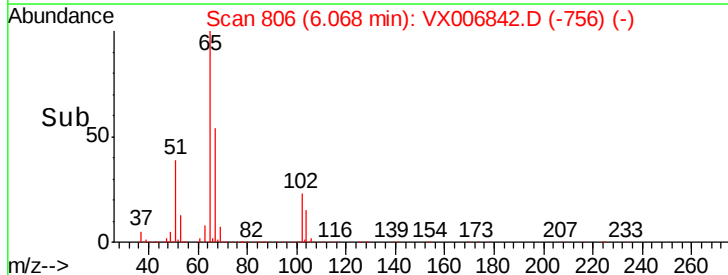
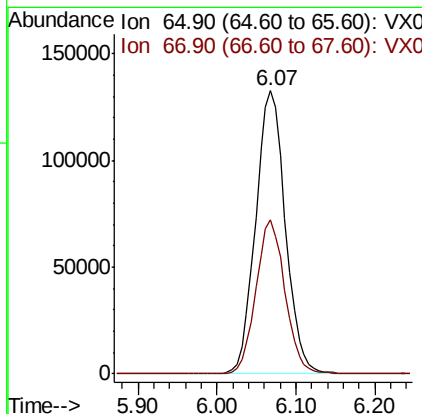
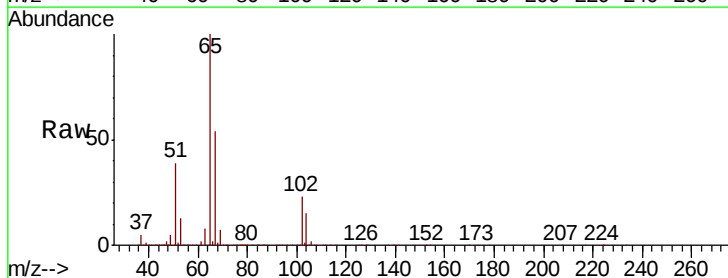
RT: 6.07 min Scan# 806

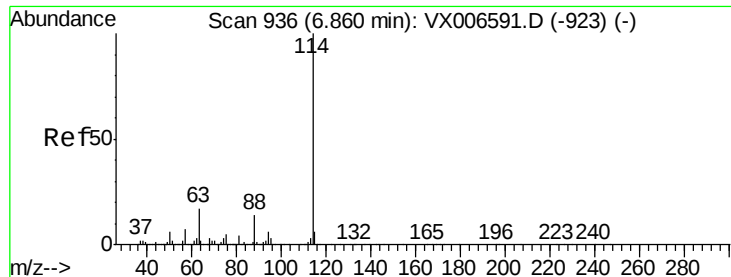
Delta R.T. 0.01 min

Lab File: VX006842.D

Acq: 27 Dec 2018 15:09

Tgt Ion: 65 Resp: 346803
Ion Ratio Lower Upper
65 100
67 53.2 0.0 105.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX006842.D

Acq: 27 Dec 2018 15:09

Instrument :

MSVOA_X

ClientSampled :

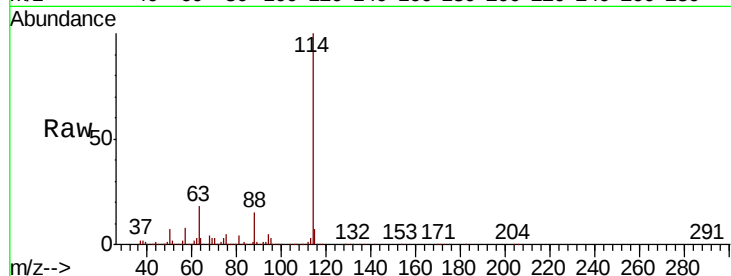
Tot Ion:114 Resp: 1032683

Ion Ratio Lower Upper

114 100

63 18.1 0.0 34.8

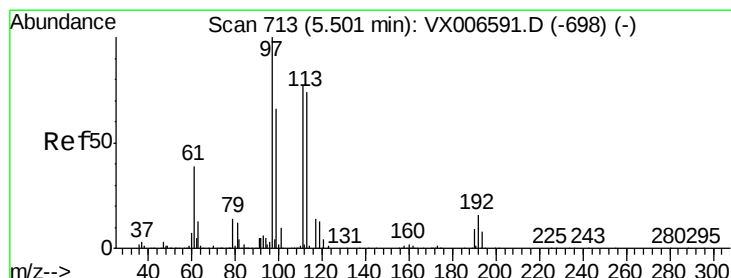
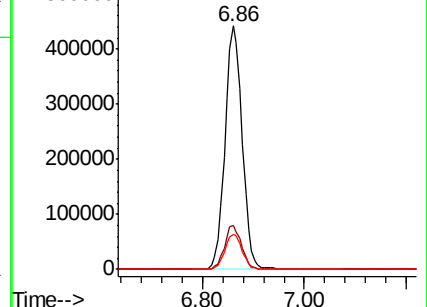
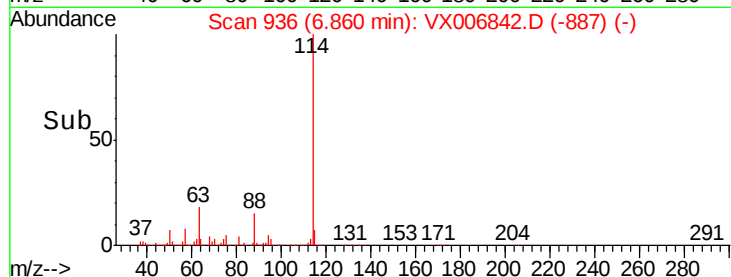
88 14.5 0.0 28.8



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: 47.433 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.00 min

Lab File: VX006842.D

Acq: 27 Dec 2018 15:09

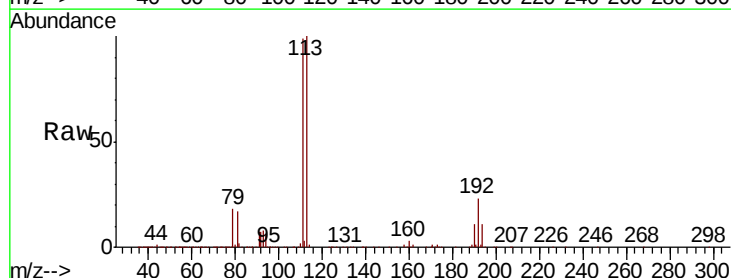
Tgt Ion:113 Resp: 309762

Ion Ratio Lower Upper

113 100

111 102.1 81.6 122.4

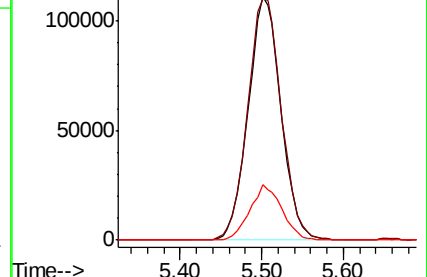
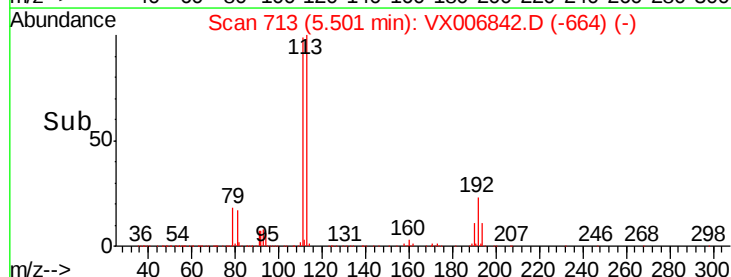
192 22.2 16.7 25.1

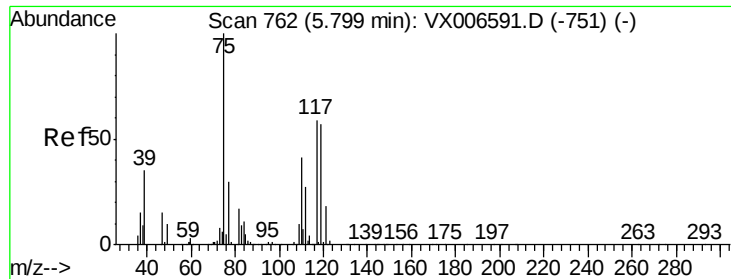


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.168 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX006842.D

Acq: 27 Dec 2018 15:09

Instrument :

MSVOA_X

ClientSampleId :

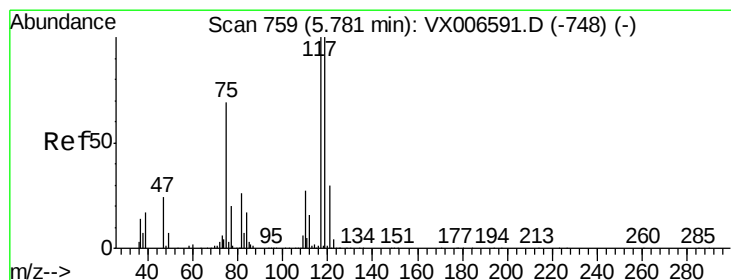
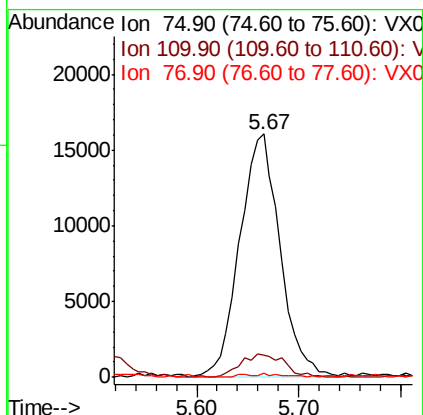
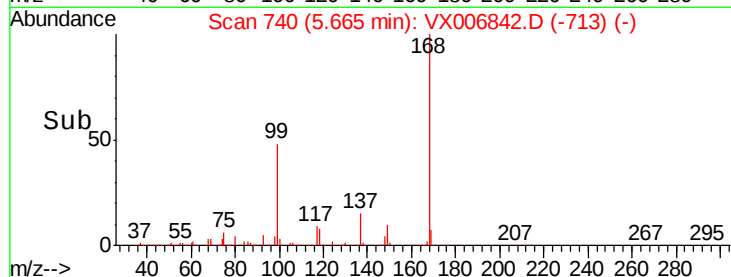
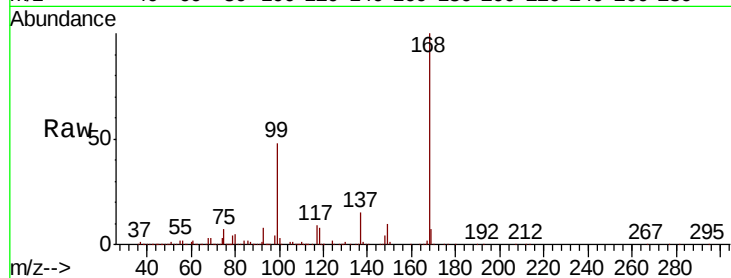
Tot Ion: 75 Resp: 44204

Ion Ratio Lower Upper

75 100

110 10.4 20.2 60.5#

77 0.7 24.8 37.2#



#38

Carbon Tetrachloride

Concen: 7.520 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX006842.D

Acq: 27 Dec 2018 15:09

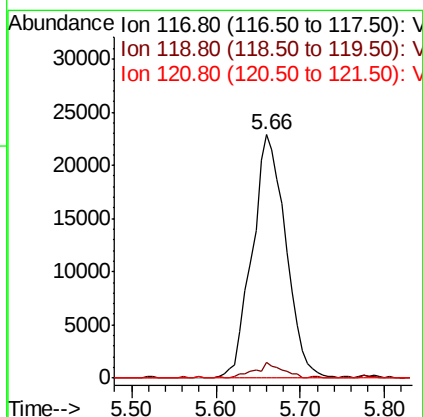
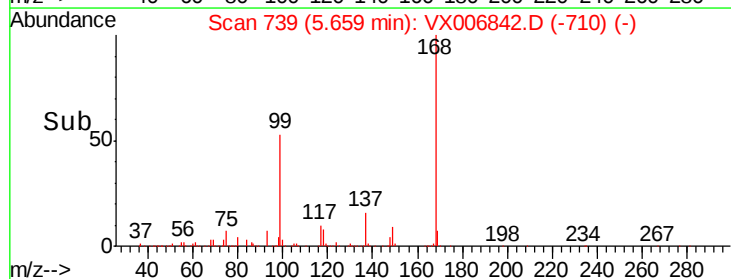
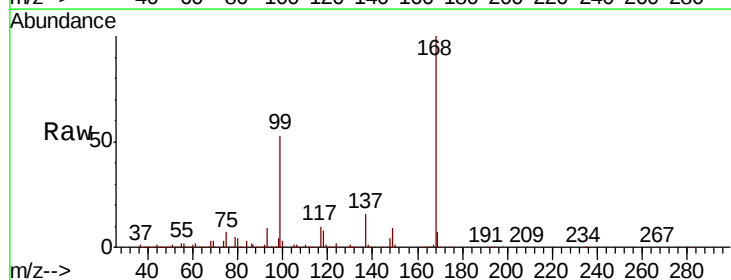
Tgt Ion: 117 Resp: 62508

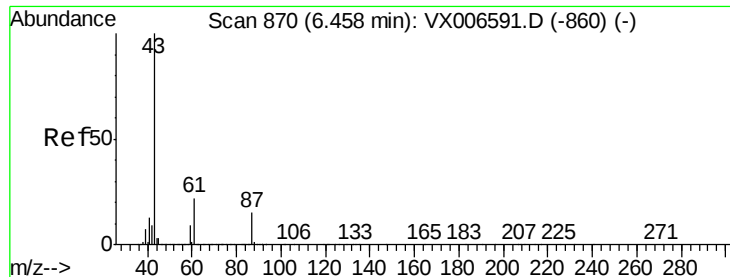
Ion Ratio Lower Upper

117 100

119 6.3 79.4 119.2#

121 0.3 24.0 36.0#



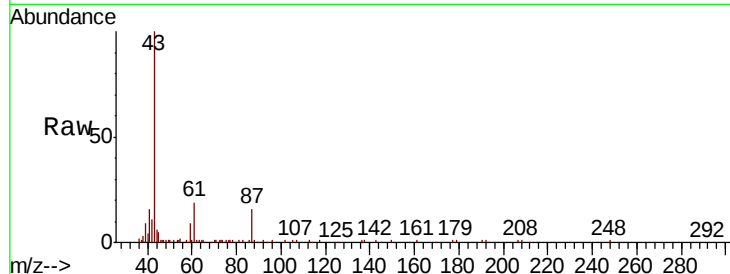


#43

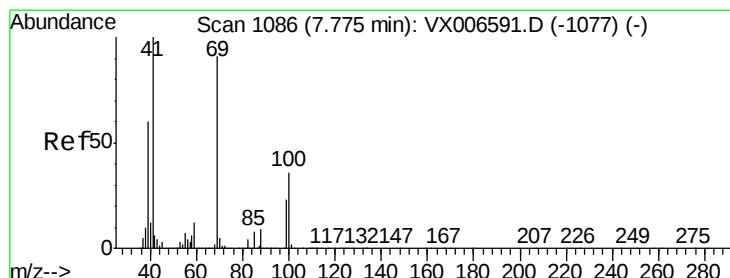
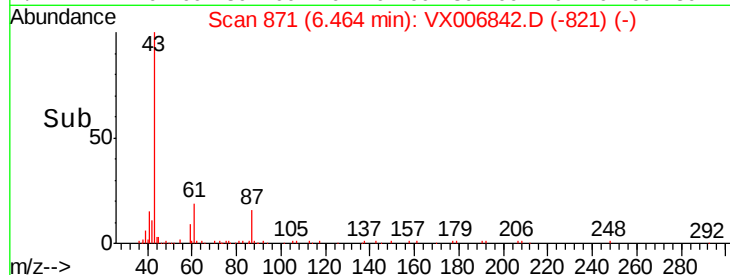
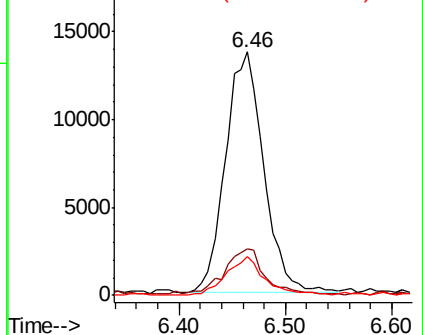
Isopropyl Acetate
 Concen: 2.536 ug/l
 RT: 6.46 min Scan# 871
 Delta R.T. 0.01 min
 Lab File: VX006842.D
 Acq: 27 Dec 2018 15:09

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
43	100		
61	21.2	16.8	25.2
87	16.1	12.4	18.6



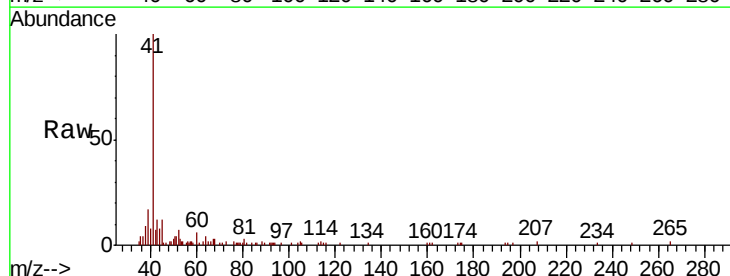
Abundance Ion 43.00 (42.70 to 43.70): VX0
 Ion 61.00 (60.70 to 61.70): VX0
 Ion 87.00 (86.70 to 87.70): VX0



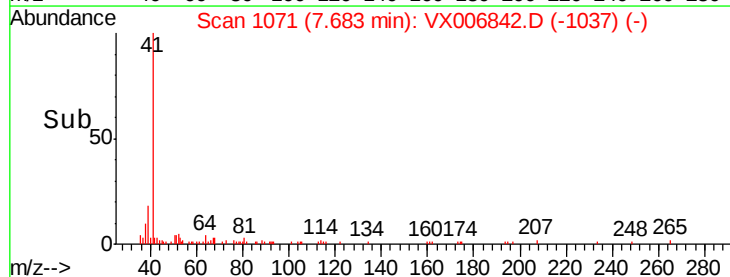
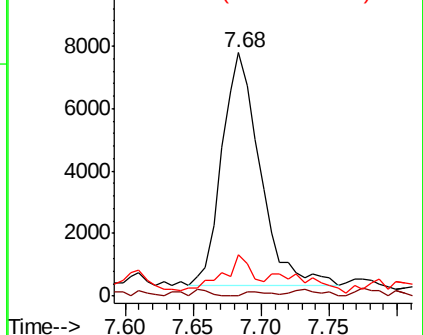
#48

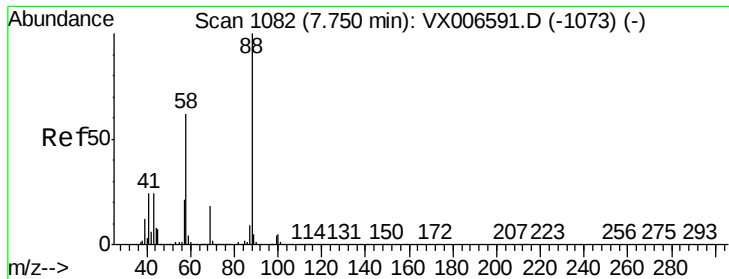
Methyl methacrylate
 Concen: 2.128 ug/l
 RT: 7.68 min Scan# 1071
 Delta R.T. -0.09 min
 Lab File: VX006842.D
 Acq: 27 Dec 2018 15:09

Tgt Ion	Ratio	Lower	Upper
41	100		
69	1.3	72.4	108.6#
39	0.0	45.8	68.8#



Abundance Ion 41.00 (40.70 to 41.70): VX0
 Ion 69.00 (68.70 to 69.70): VX0
 Ion 39.00 (38.70 to 39.70): VX0

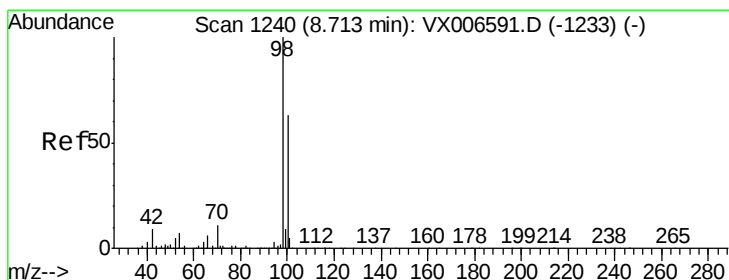
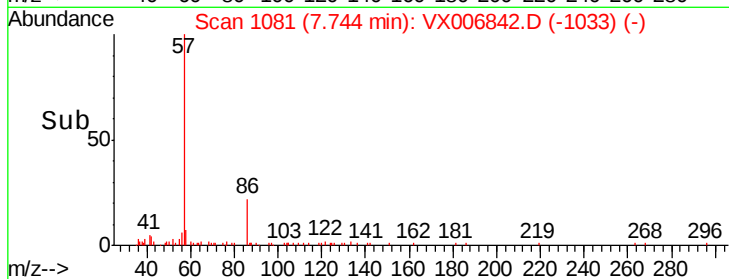
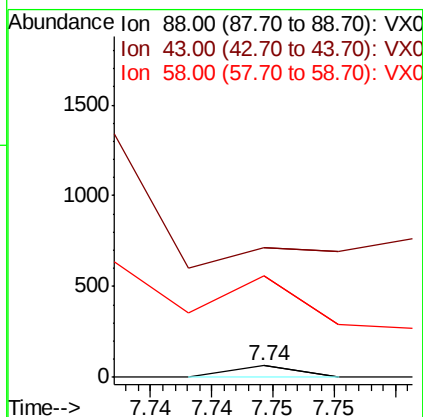
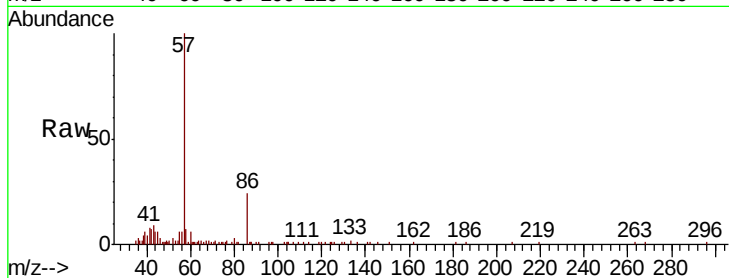




#49
1,4-Dioxane
Concen: Below Cal
RT: 7.74 min Scan# 1081
Delta R.T. -0.01 min
Lab File: VX006842.D
Acq: 27 Dec 2018 15:09

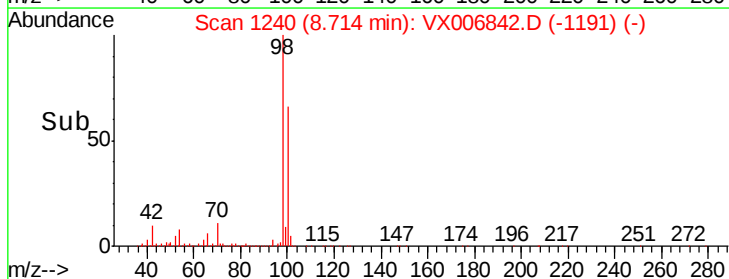
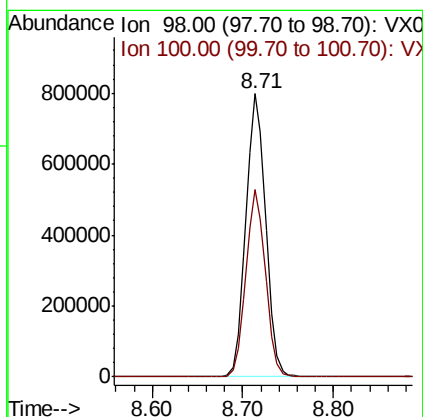
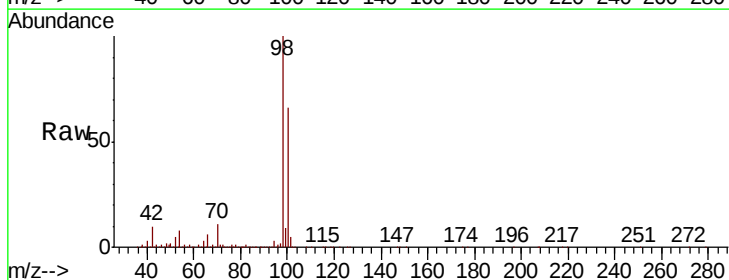
Instrument :
MSVOA_X
ClientSampleId :

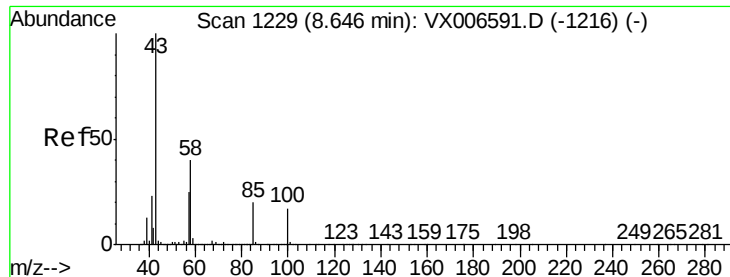
Tot Ion	Ratio	Lower	Upper
88	100		
43	0.0	22.2	33.4#
58	0.0	51.0	76.4#



#50
Toluene-d8
Concen: 49.137 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX006842.D
Acq: 27 Dec 2018 15:09

Tgt Ion	Ratio	Lower	Upper
98	100		
100	65.1	52.0	78.0

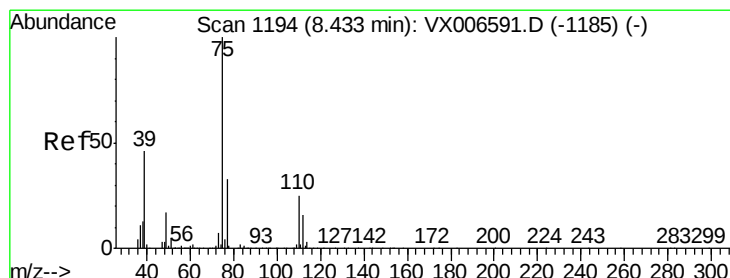
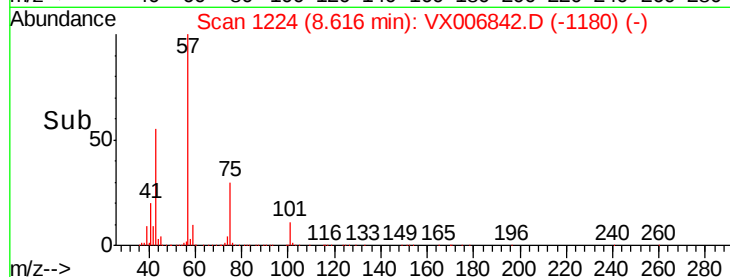
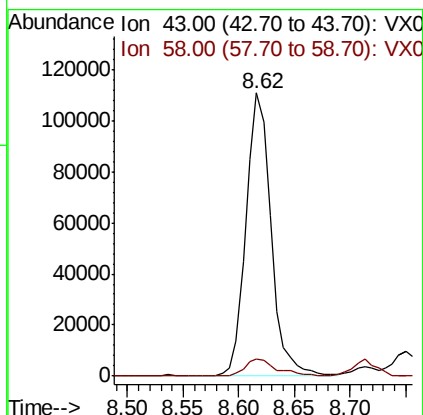
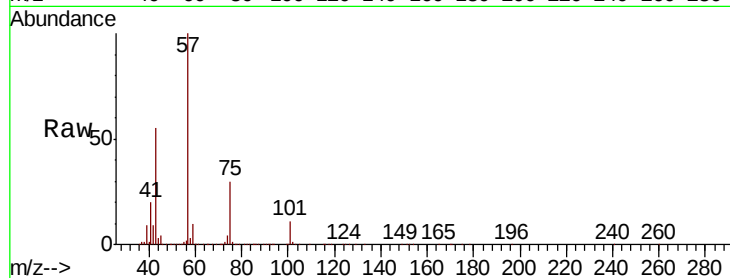




#51
 4-Methyl-2-Pentanone
 Concen: 20.044 ug/l
 RT: 8.62 min Scan# 1224
 Delta R.T. -0.03 min
 Lab File: VX006842.D
 Acq: 27 Dec 2018 15:09

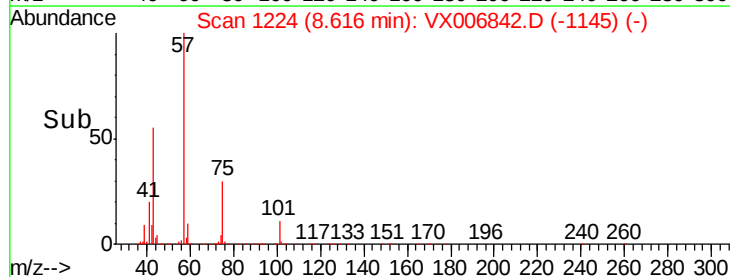
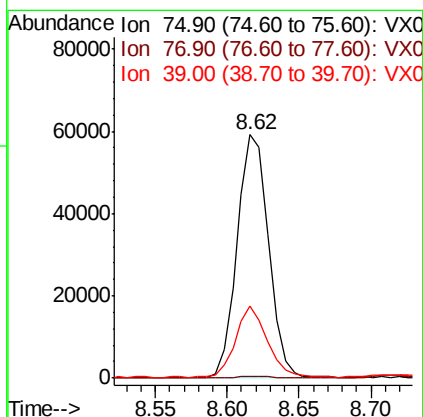
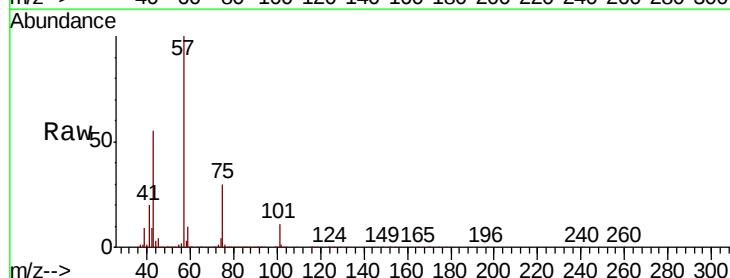
Instrument :
 MSVOA_X
 ClientSampleId :

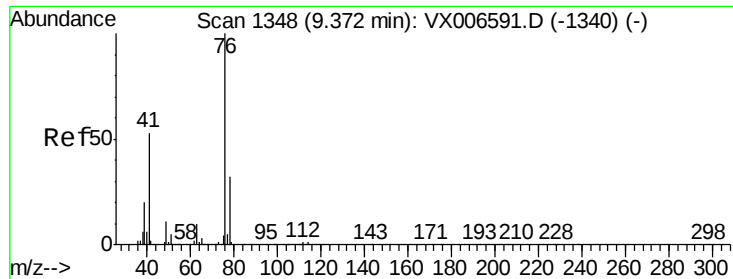
Tot Ion: 43 Resp: 172746
 Ion Ratio Lower Upper
 43 100
 58 7.4 31.8 47.6#



#54
 cis-1,3-Dichloropropene
 Concen: 9.916 ug/l
 RT: 8.62 min Scan# 1224
 Delta R.T. 0.18 min
 Lab File: VX006842.D
 Acq: 27 Dec 2018 15:09

Tgt Ion: 75 Resp: 90158
 Ion Ratio Lower Upper
 75 100
 77 0.3 26.2 39.2#
 39 29.1 36.7 55.1#





#57

1,3-Dichloropropane

Concen: 1.870 ug/l

RT: 9.54 min Scan# 1376

Delta R.T. 0.17 min

Lab File: VX006842.D

Acq: 27 Dec 2018 15:09

Instrument :

MSVOA_X

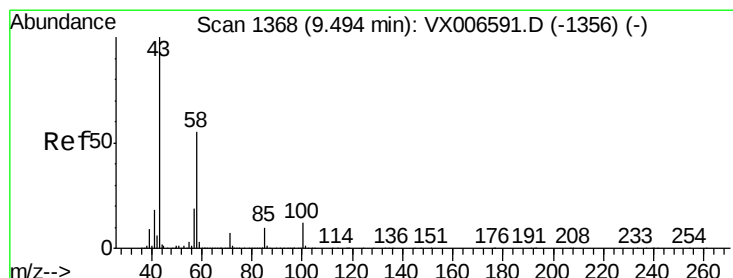
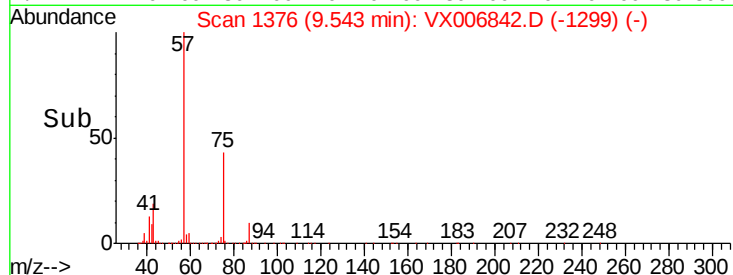
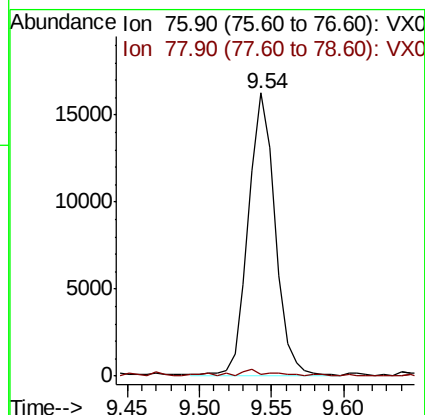
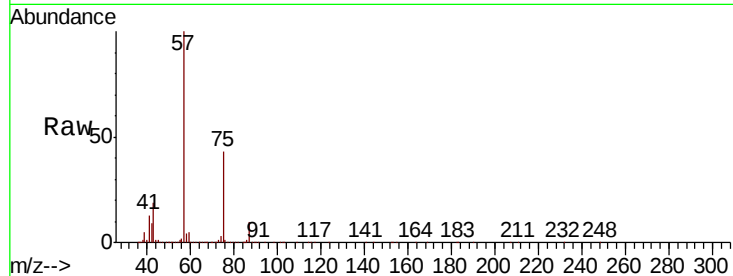
ClientSampleId :

Tot Ion: 76 Resp: 20689

Ion Ratio Lower Upper

76 100

78 2.6 26.0 39.0#



#59

2-Hexanone

Concen: 41.453 ug/l

RT: 9.54 min Scan# 1376

Delta R.T. 0.05 min

Lab File: VX006842.D

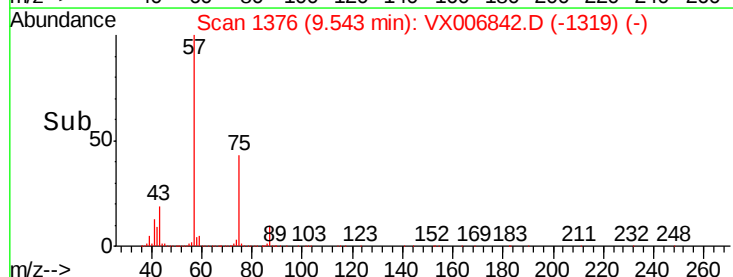
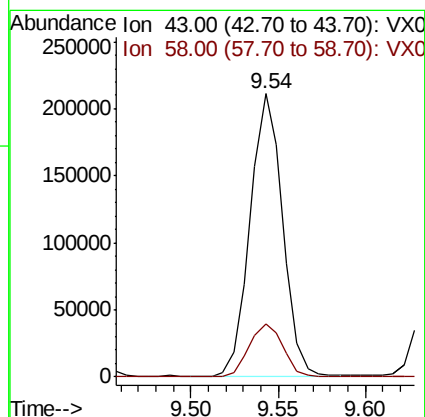
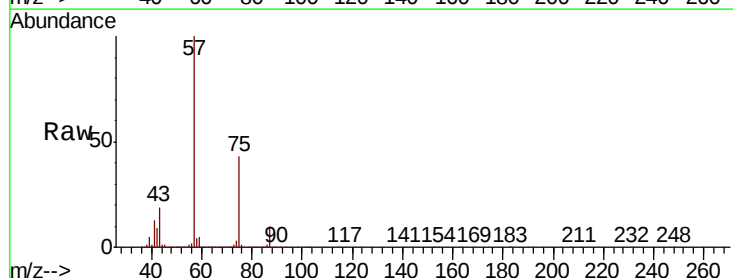
Acq: 27 Dec 2018 15:09

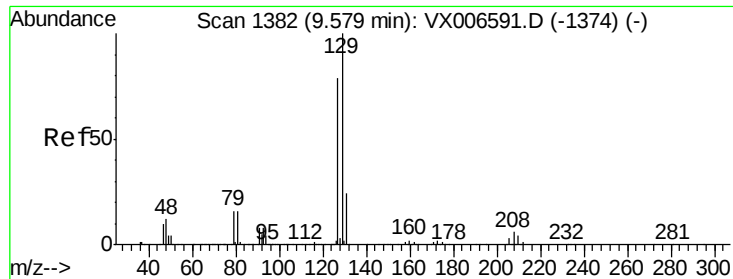
Tgt Ion: 43 Resp: 273338

Ion Ratio Lower Upper

43 100

58 19.8 27.7 83.1#





#60

Dibromochloromethane

Concen: 2.327 ug/l

RT: 9.74 min Scan# 1409

Delta R.T. 0.16 min

Lab File: VX006842.D

Acq: 27 Dec 2018 15:09

Instrument :

MSVOA_X

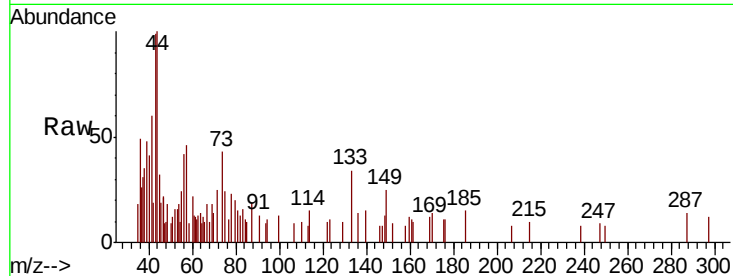
ClientSampled :

Tot Ion:129 Resp: 23

Ion Ratio Lower Upper

129 100

127 104.3 39.3 117.8



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

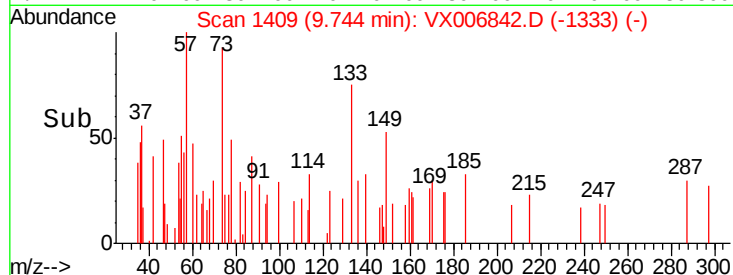
150

100

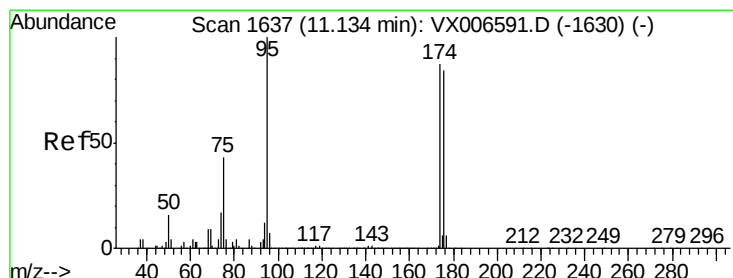
50

0

9.73 9.74 9.75 9.76



Time-->



#62

4-Bromofluorobenzene

Concen: 48.235 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX006842.D

Acq: 27 Dec 2018 15:09

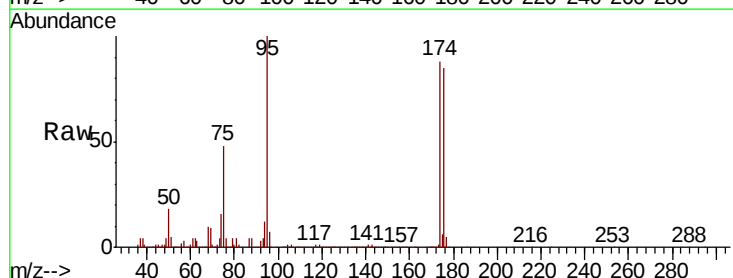
Tgt Ion: 95 Resp: 434933

Ion Ratio Lower Upper

95 100

174 92.9 0.0 182.2

176 90.2 0.0 178.8



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

400000

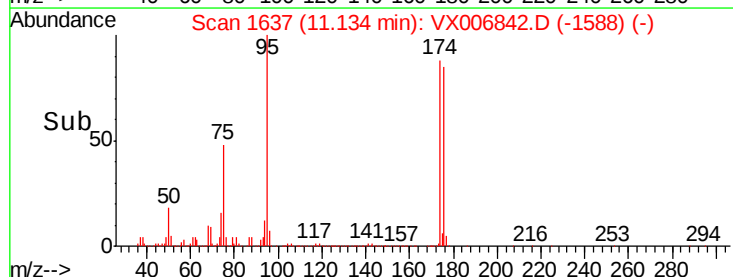
300000

200000

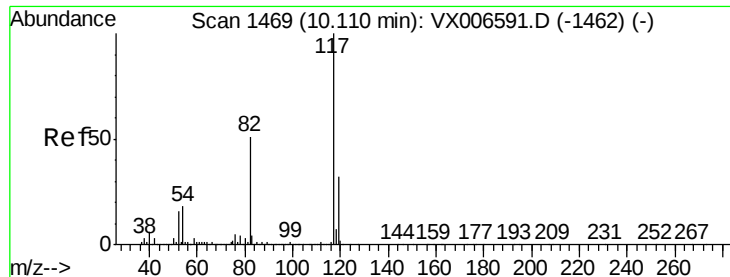
100000

0

11.05 11.10 11.15 11.20



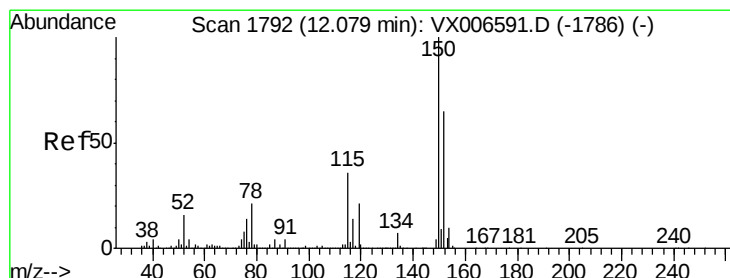
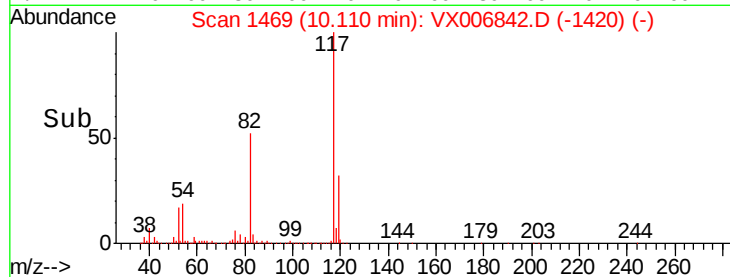
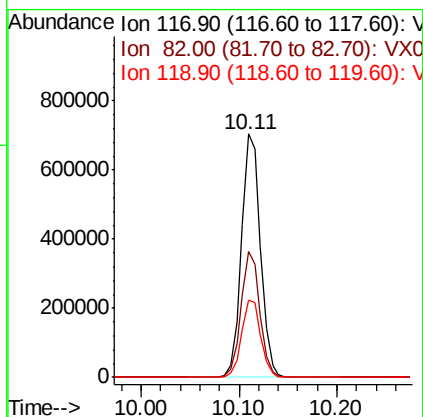
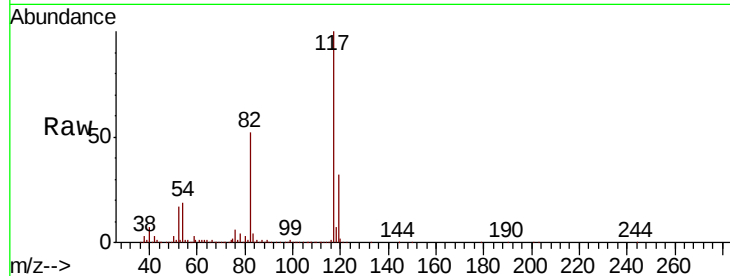
Time-->



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX006842.D
Acq: 27 Dec 2018 15:09

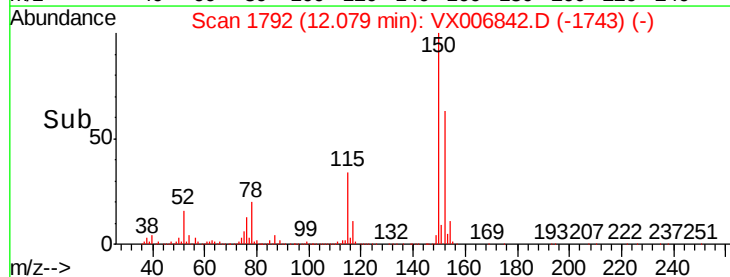
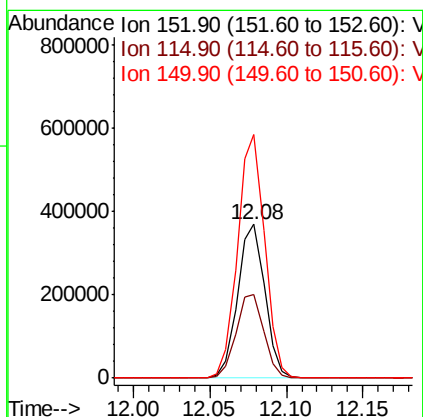
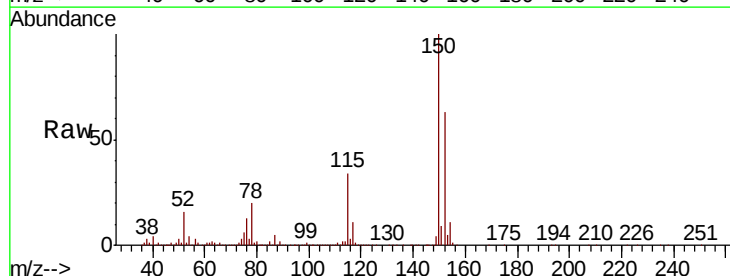
Instrument :
MSVOA_X
ClientSampled :

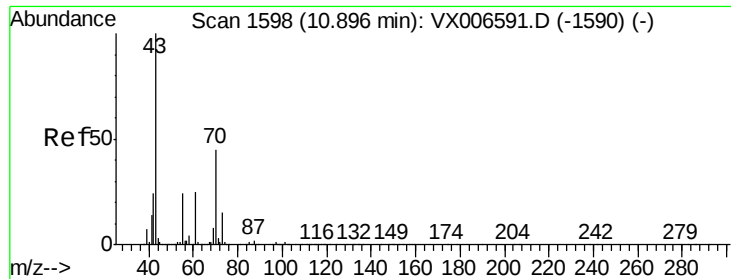
Tot Ion	Ratio	Lower	Upper
117	100		
82	51.7	41.0	61.6
119	31.6	25.4	38.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX006842.D
Acq: 27 Dec 2018 15:09

Tgt Ion	Ratio	Lower	Upper
152	100		
115	55.2	39.1	117.2
150	158.1	0.0	344.8





#74

N-amvl acetate

Concen: 2.780 ug/l

RT: 10.69 min Scan# 1565

Delta R.T. -0.20 min

Lab File: VX006842.D

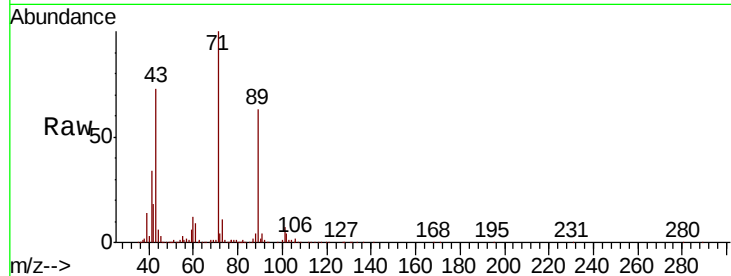
Acq: 27 Dec 2018 15:09

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion:	43	Resp:	31001
Ion	Ratio	Lower	Upper
43	100		
70	2.1	35.8	53.8#
55	5.4	19.4	29.0#
61	11.6	20.1	30.1#



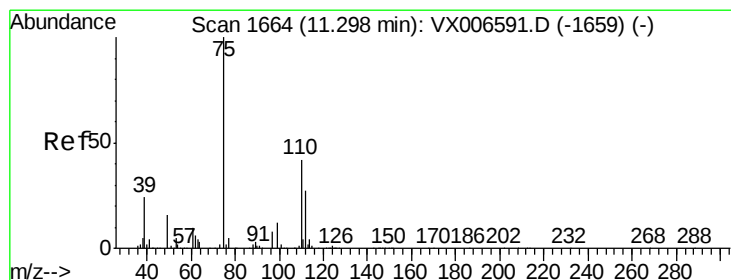
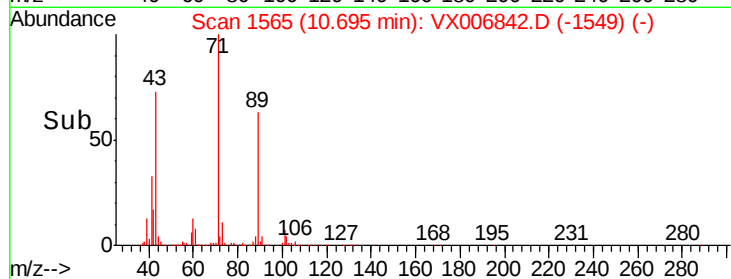
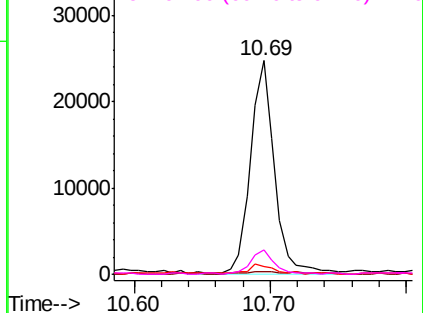
Abundance

Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0



#76

1,2,3-Trichloropropane

Concen: 24.160 ug/l

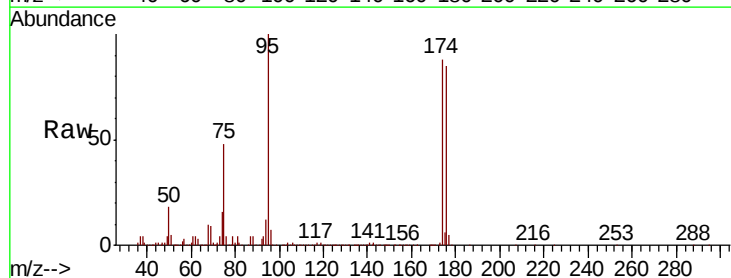
RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX006842.D

Acq: 27 Dec 2018 15:09

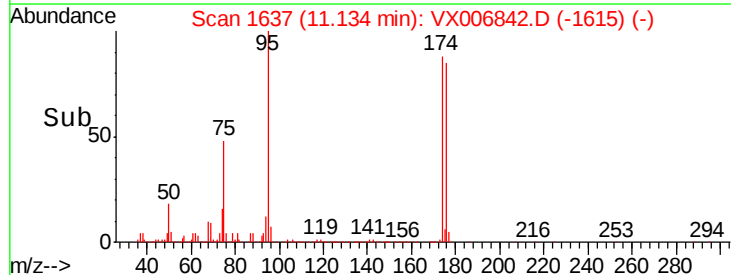
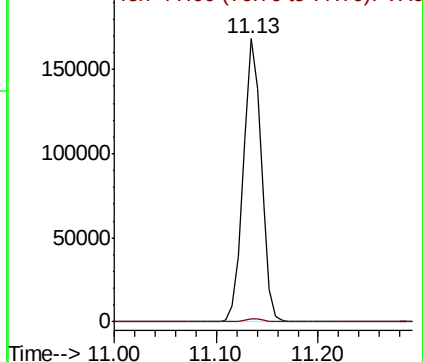
Tgt Ion:	75	Resp:	204492
Ion	Ratio	Lower	Upper
75	100		
77	1.3	18.5	55.5#

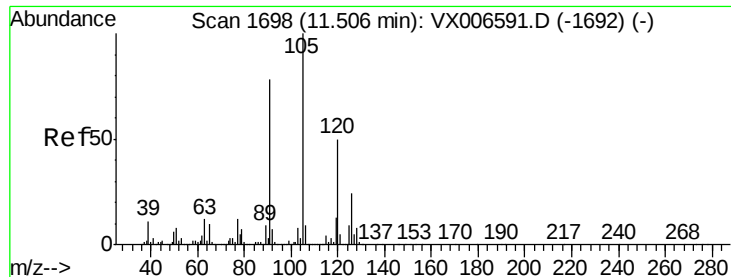


Abundance

Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#80

1,3,5-Trimethylbenzene

Concen: 0.690 ug/l

RT: 11.51 min Scan# 1698

Delta R.T. 0.00 min

Lab File: VX006842.D

Acq: 27 Dec 2018 15:09

Instrument :

MSVOA_X

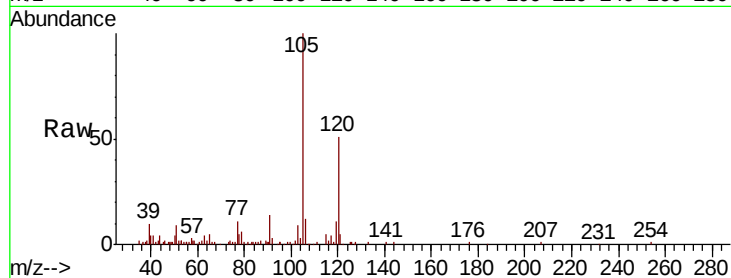
ClientSampleId :

Tot Ion:105 Resp: 17710

Ion Ratio Lower Upper

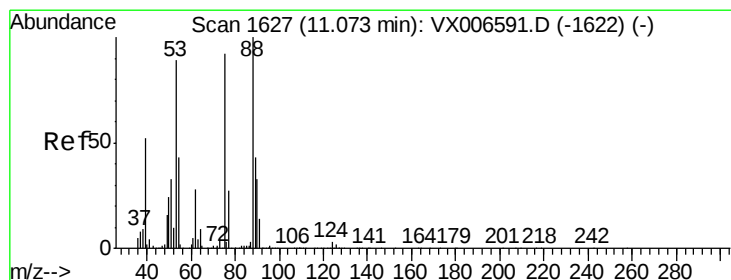
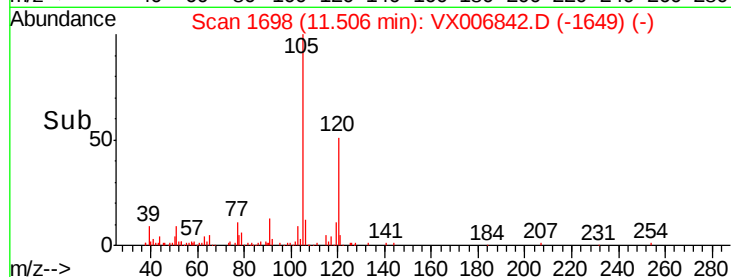
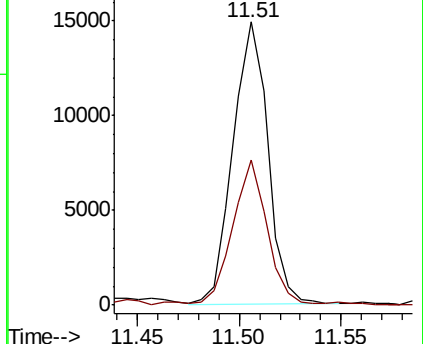
105 100

120 51.4 25.1 75.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 71.533 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX006842.D

Acq: 27 Dec 2018 15:09

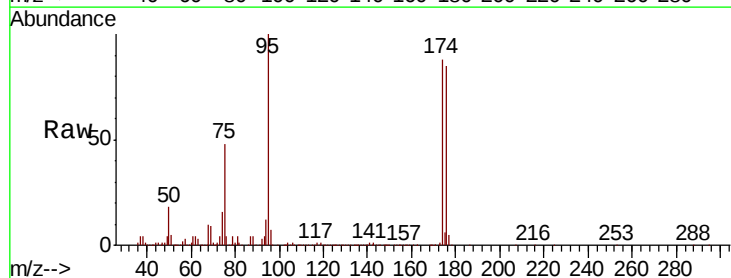
Tgt Ion: 75 Resp: 204492

Ion Ratio Lower Upper

75 100

53 0.1 79.7 119.5#

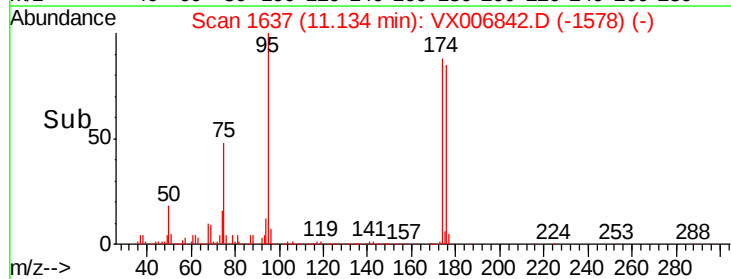
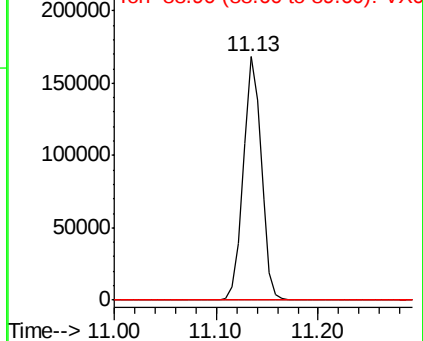
89 0.1 38.0 57.0#

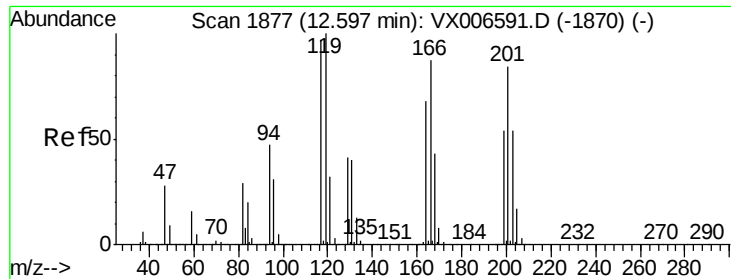


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

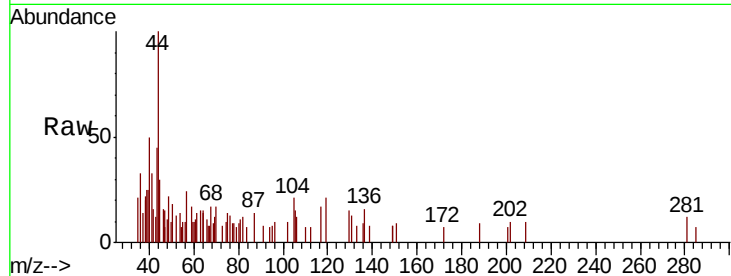




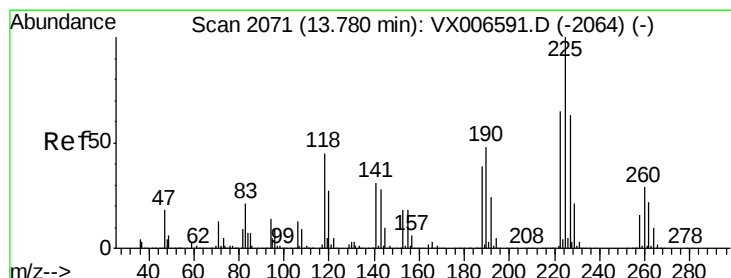
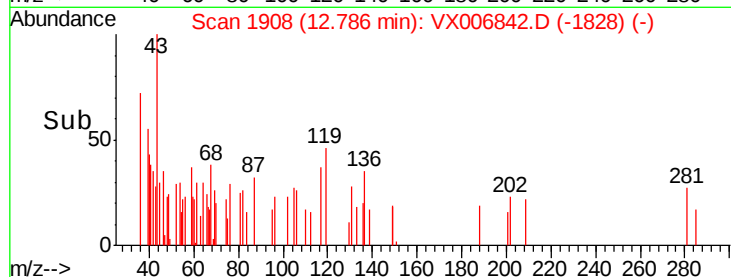
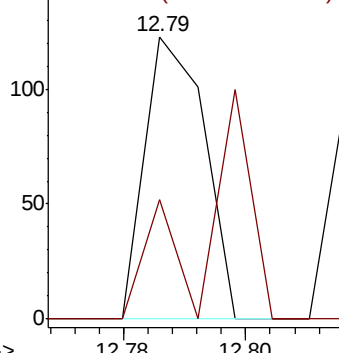
#90
Hexachloroethane
Concen: 3.311 ug/l
RT: 12.79 min Scan# 1908
Delta R.T. 0.19 min
Lab File: VX006842.D
Acq: 27 Dec 2018 15:09

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:117 Resp: 82
Ion Ratio Lower Upper
117 100
201 68.3 42.9 128.7

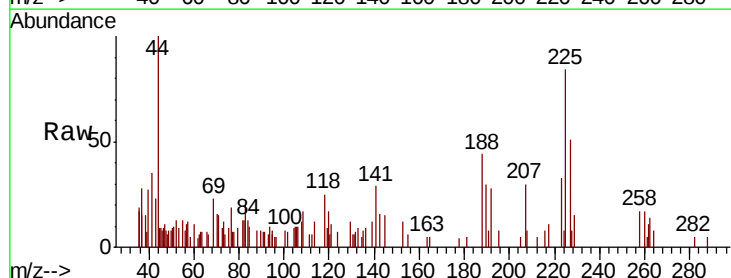


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 200.70 (200.40 to 201.40): V



#94
Hexachlorobutadiene
Concen: 0.287 ug/l
RT: 13.79 min Scan# 2072
Delta R.T. 0.01 min
Lab File: VX006842.D
Acq: 27 Dec 2018 15:09

Tgt Ion:225 Resp: 1417
Ion Ratio Lower Upper
225 100
223 53.5 32.1 96.3
227 74.9 32.3 96.8



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

