

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX122018\
 Data File : VX006663.D
 Acq On : 20 Dec 2018 09:34
 Operator : JC/MD
 Sample : VX1220WBL01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Dec 21 03:27:32 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	621558	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	952733	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	861800	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	416981	50.00	ug/l	0.00

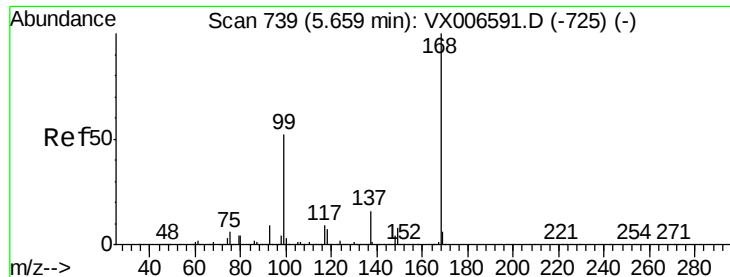
System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.07	65	324103	48.38	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.76%	
35) Dibromofluoromethane	5.50	113	286879	47.62	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.24%	
50) Toluene-d8	8.71	98	1115043	49.09	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.18%	
62) 4-Bromofluorobenzene	11.13	95	402284	48.36	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.72%	

Target Compounds

					Qvalue	
5) Bromomethane	1.65	94	879	Below Cal	#	67
11) Tert butyl alcohol	3.13	59	333	0.223	ug/l #	1
13) Acrolein	2.29	56	1335	1.324	ug/l #	13
15) Acrylonitrile	3.15	53	3171	0.955	ug/l #	31
16) Acetone	2.45	43	2031	0.660	ug/l #	61
17) Carbon Disulfide	2.57	76	3228	0.220	ug/l #	64
20) Methylene Chloride	2.85	84	2289	0.360	ug/l #	74
23) Vinyl Acetate	3.82	43	4078	0.292	ug/l	96
28) Bromochloromethane	5.01	49	1245	Below Cal	#	18
36) 1,1-Dichloropropene	5.67	75	39299	4.980	ug/l #	48
38) Carbon Tetrachloride	5.66	117	56943	7.425	ug/l #	13
49) 1,4-Dioxane	7.76	88	699	Below Cal	#	24
51) 4-Methyl-2-Pentanone	8.65	43	2046	0.257	ug/l #	84
59) 2-Hexanone	9.50	43	1271	0.209	ug/l	69
60) Dibromochloromethane	9.59	129	339	2.373	ug/l	69
71) Bromoform	10.86	173	120	4.481	ug/l #	28
76) 1,2,3-Trichloropropane	11.13	75	187223	24.160	ug/l #	40
81) trans-1,4-Dichloro-2-buten	11.13	75	187223	71.535	ug/l #	10
90) Hexachloroethane	12.50	117	46	3.304	ug/l	82

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX006663.D

Acq: 20 Dec 2018 09:34

Instrument :

MSVOA_X

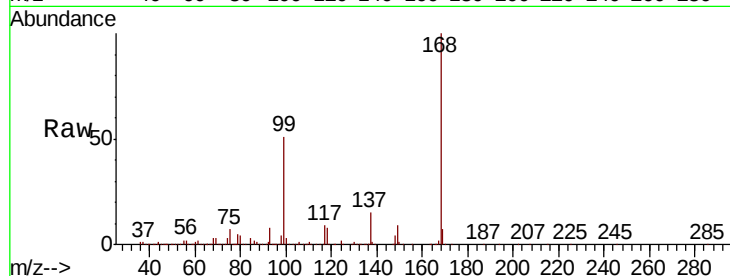
ClientSampleId :

Tot Ion:168 Resp: 621558

Ion Ratio Lower Upper

168 100

99 50.5 41.8 62.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

250000

200000

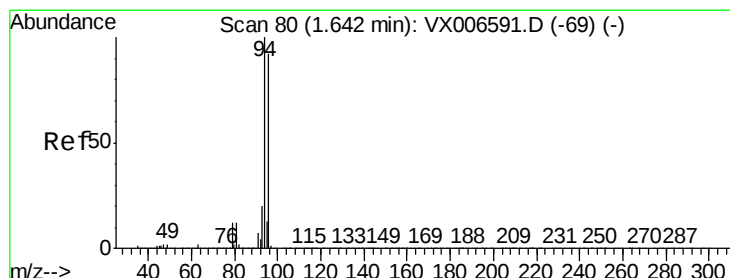
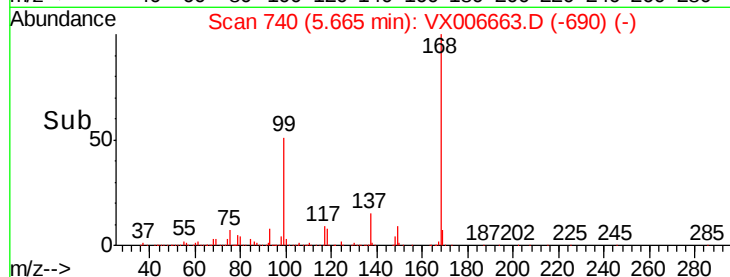
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX006663.D

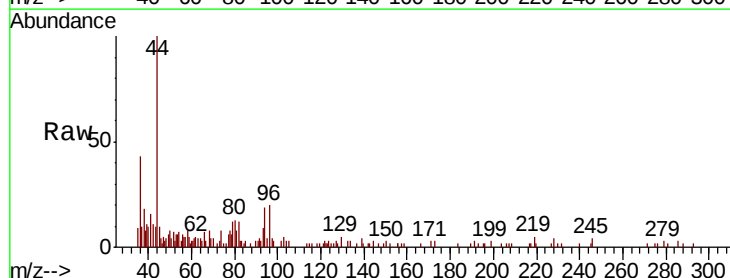
Acq: 20 Dec 2018 09:34

Tgt Ion: 94 Resp: 879

Ion Ratio Lower Upper

94 100

96 123.3 73.4 110.2#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

800

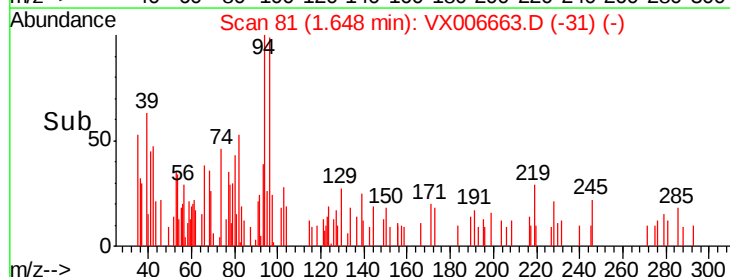
600

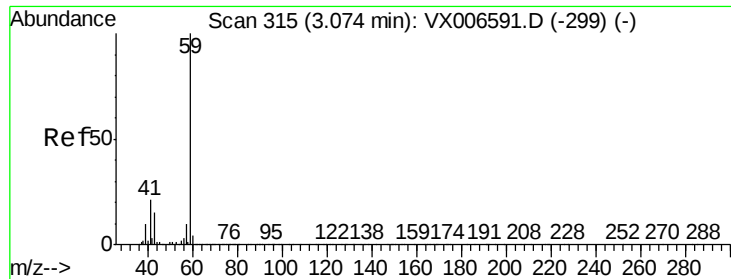
400

200

0

Time-->



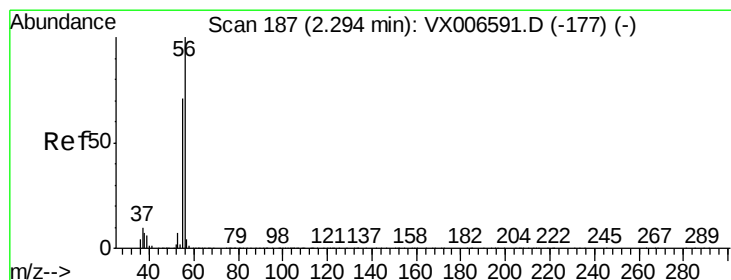
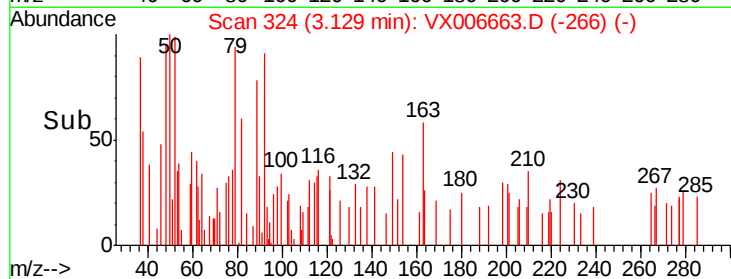
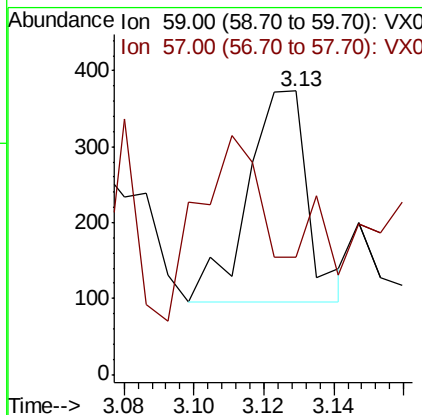
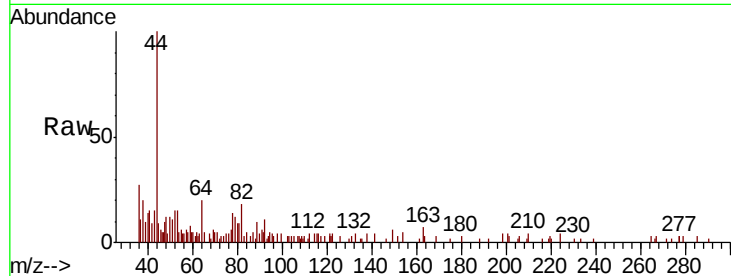


#11

Tert butyl alcohol
 Concen: 0.223 ug/l
 RT: 3.13 min Scan# 324
 Delta R.T. 0.05 min
 Lab File: VX006663.D
 Acq: 20 Dec 2018 09:34

Instrument :
 MSVOA_X
 ClientSampled :

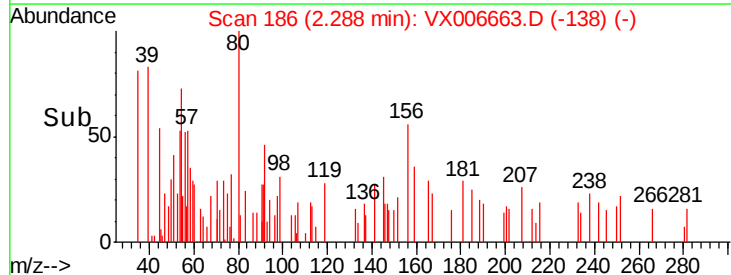
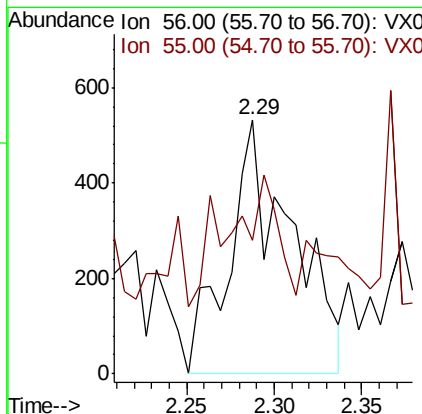
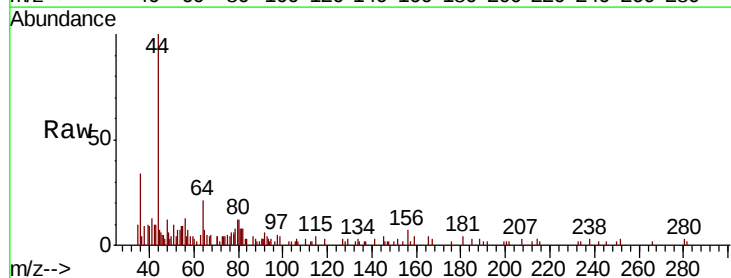
Tot Ion: 59 Resp: 333
 Ion Ratio Lower Upper
 59 100
 57 148.6 8.5 12.7#

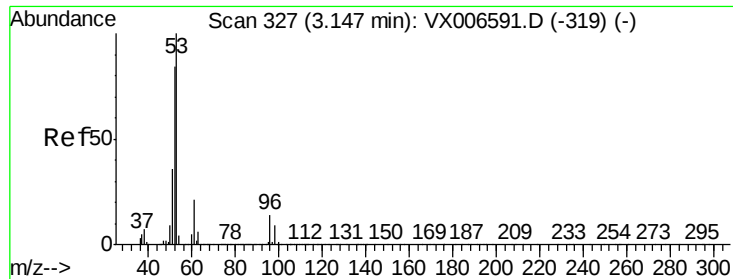


#13

Acrolein
 Concen: 1.324 ug/l
 RT: 2.29 min Scan# 186
 Delta R.T. -0.01 min
 Lab File: VX006663.D
 Acq: 20 Dec 2018 09:34

Tgt Ion: 56 Resp: 1335
 Ion Ratio Lower Upper
 56 100
 55 0.0 58.2 87.4#





#15

Acrylonitrile

Concen: 0.955 ug/l

RT: 3.15 min Scan# 328

Delta R.T. 0.01 min

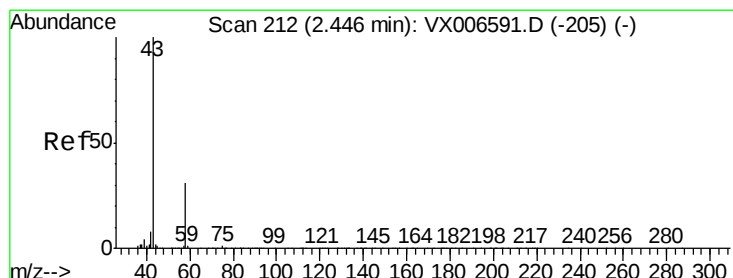
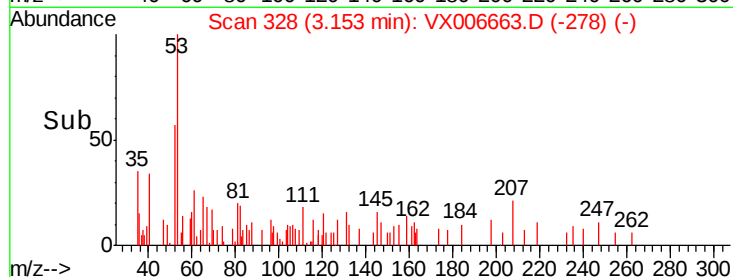
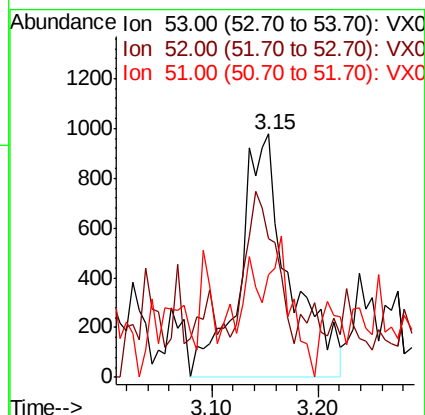
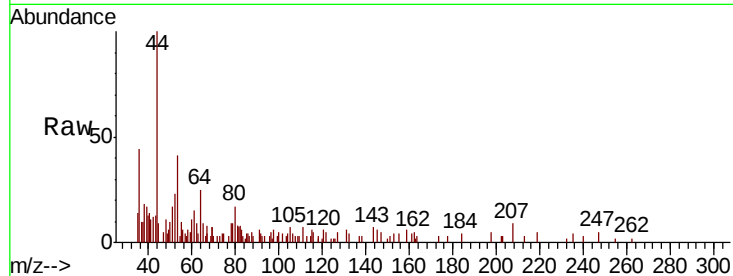
Lab File: VX006663.D

Acq: 20 Dec 2018 09:34

Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 53 Resp: 3171

Ion	Ratio	Lower	Upper
53	100		
52	0.0	66.0	99.0#
51	26.1	28.6	42.8#



#16

Acetone

Concen: 0.660 ug/l

RT: 2.45 min Scan# 212

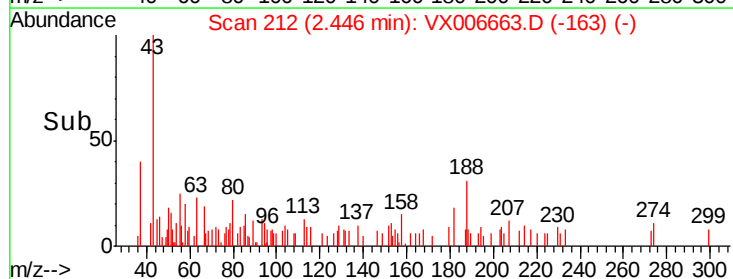
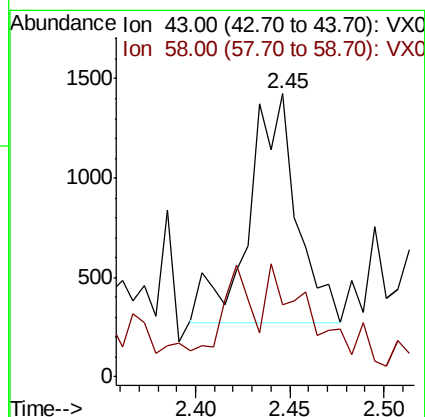
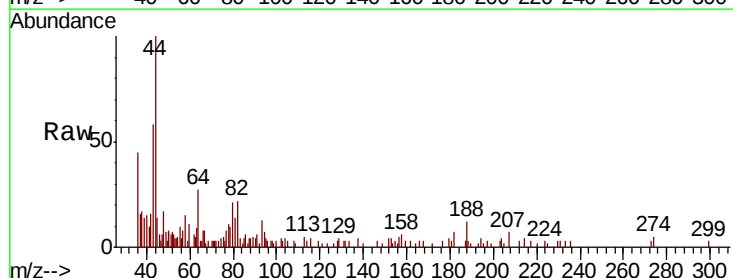
Delta R.T. -0.00 min

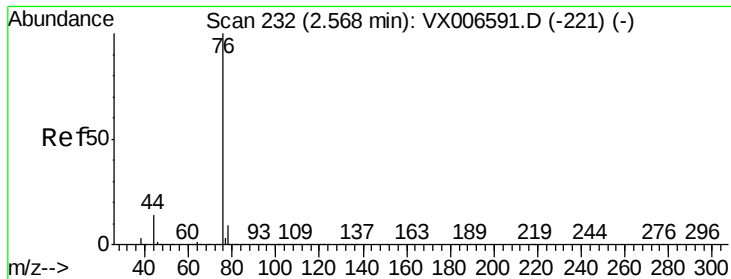
Lab File: VX006663.D

Acq: 20 Dec 2018 09:34

Tgt Ion: 43 Resp: 2031

Ion	Ratio	Lower	Upper
43	100		
58	9.7	25.0	37.6#





#17

Carbon Disulfide

Concen: 0.220 ug/l

RT: 2.57 min Scan# 232

Delta R.T. -0.00 min

Lab File: VX006663.D

Acq: 20 Dec 2018 09:34

Instrument :

MSVOA_X

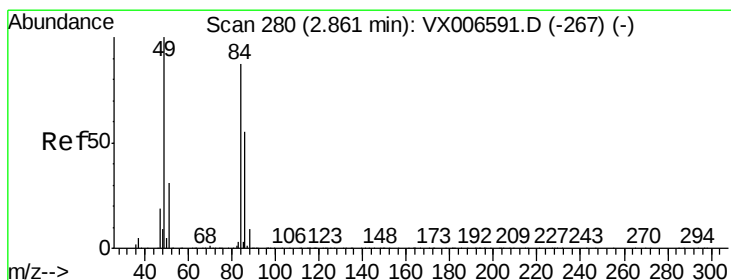
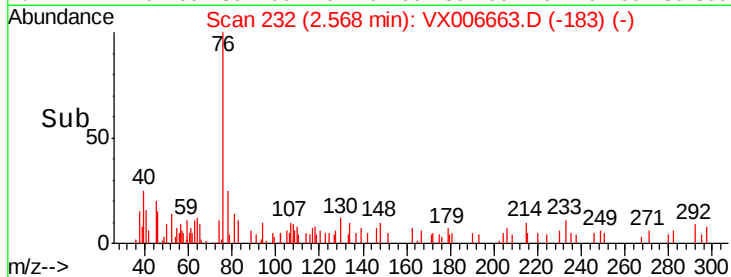
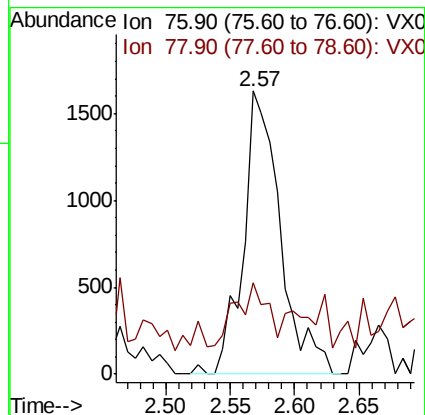
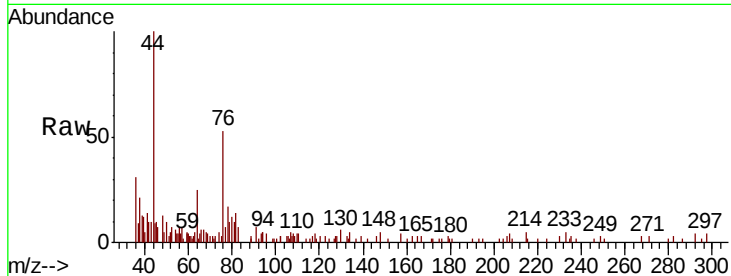
ClientSampleId :

Tot Ion: 76 Resp: 3228

Ion Ratio Lower Upper

76 100

78 21.9 7.0 10.6#



#20

Methylene Chloride

Concen: 0.360 ug/l

RT: 2.85 min Scan# 279

Delta R.T. -0.01 min

Lab File: VX006663.D

Acq: 20 Dec 2018 09:34

Tgt Ion: 84 Resp: 2289

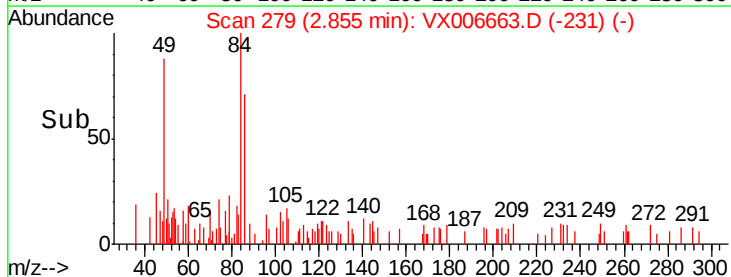
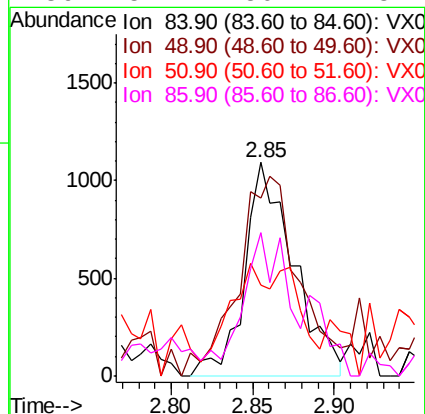
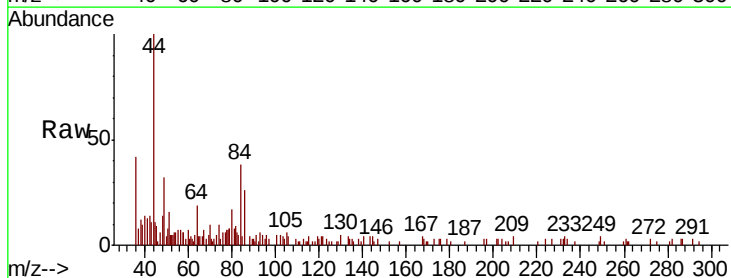
Ion Ratio Lower Upper

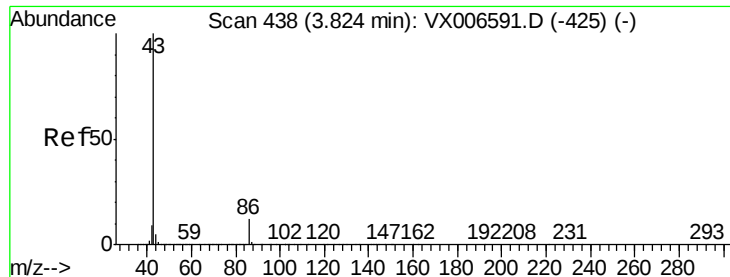
84 100

49 72.6 91.8 137.6#

51 30.4 28.5 42.7

86 54.2 50.2 75.2





#23

Vinyl Acetate

Concen: 0.292 ug/l

RT: 3.82 min Scan# 438

Delta R.T. -0.00 min

Lab File: VX006663.D

Acq: 20 Dec 2018 09:34

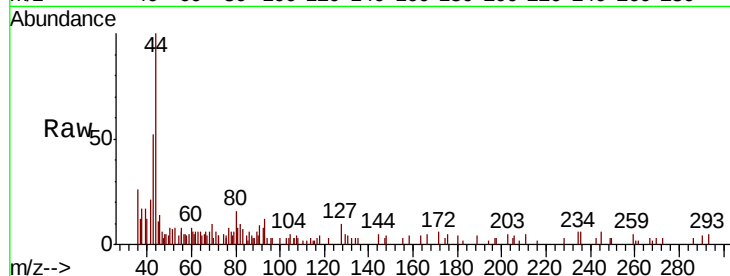
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 43 Resp: 4078

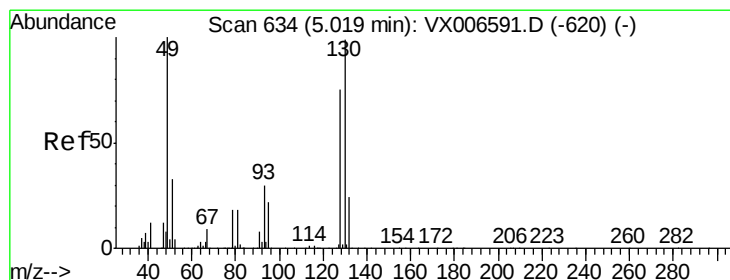
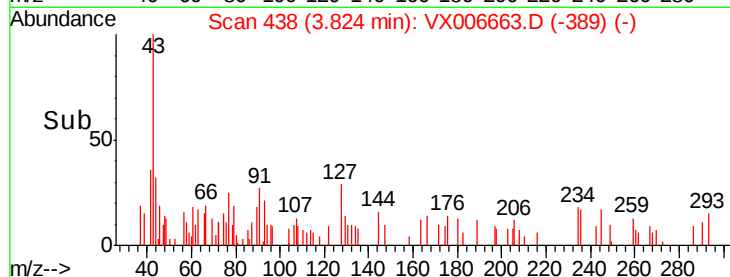
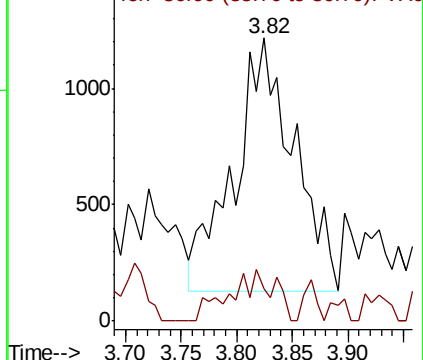
Ion Ratio Lower Upper

43 100

86 13.0 9.2 13.8



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 86.00 (85.70 to 86.70): VX0



#28

Bromochloromethane

Concen: Below Cal

RT: 5.01 min Scan# 632

Delta R.T. -0.01 min

Lab File: VX006663.D

Acq: 20 Dec 2018 09:34

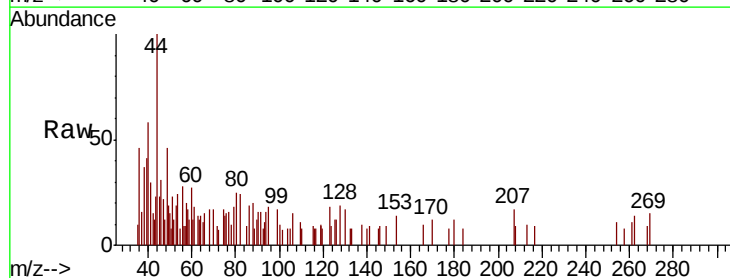
Tgt Ion: 49 Resp: 1245

Ion Ratio Lower Upper

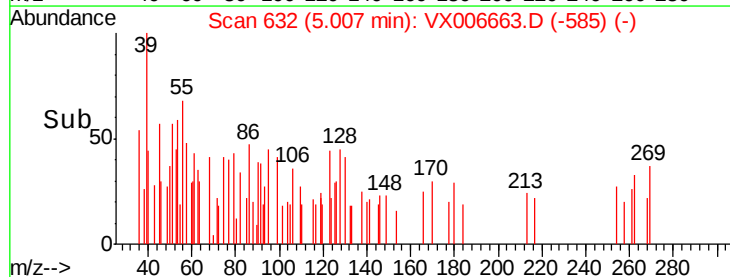
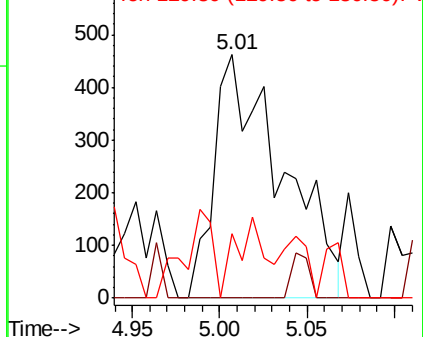
49 100

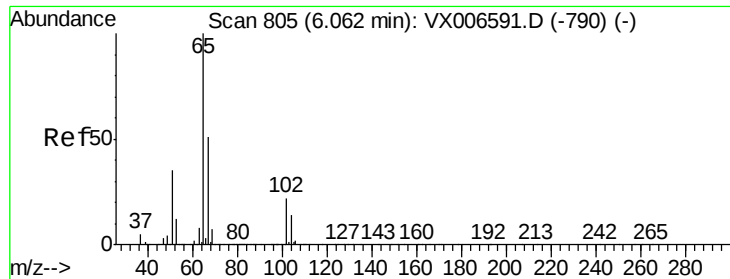
129 0.0 0.0 5.4

130 14.2 77.7 116.5#



Abundance Ion 48.90 (48.60 to 49.60): VX0
Ion 128.80 (128.50 to 129.50): V
Ion 129.80 (129.50 to 130.50): V





#33

1,2-Dichloroethane-d4

Concen: 48.382 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.01 min

Lab File: VX006663.D

Acq: 20 Dec 2018 09:34

Instrument :

MSVOA_X

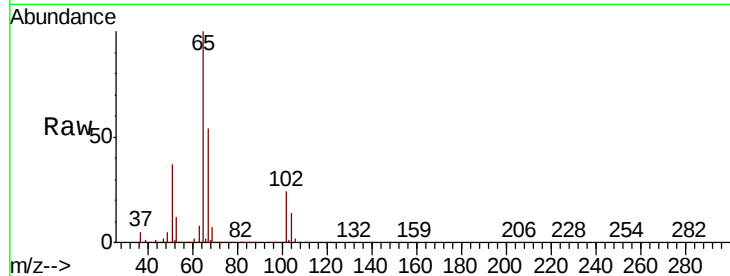
ClientSampleId :

Tot Ion: 65 Resp: 324103

Ion Ratio Lower Upper

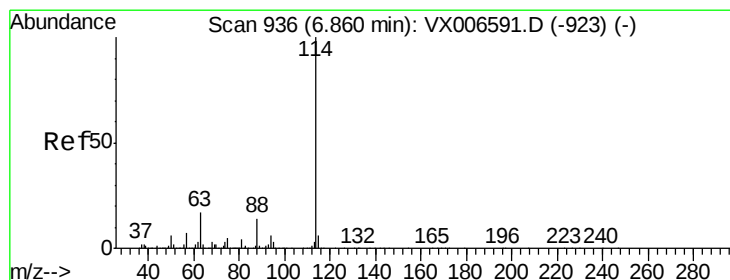
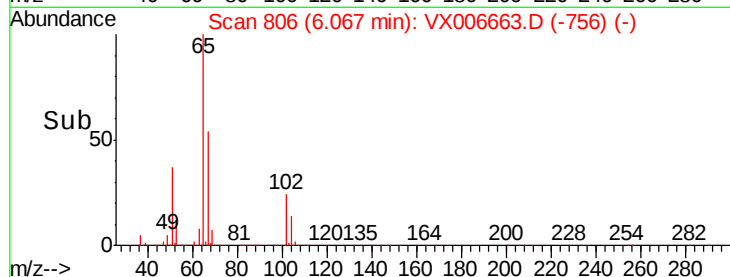
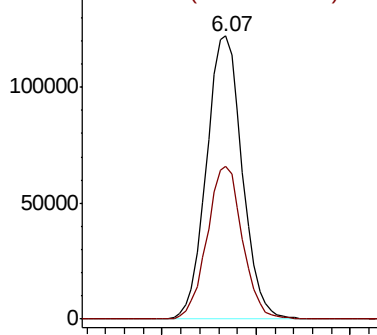
65 100

67 53.0 0.0 105.0



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX006663.D

Acq: 20 Dec 2018 09:34

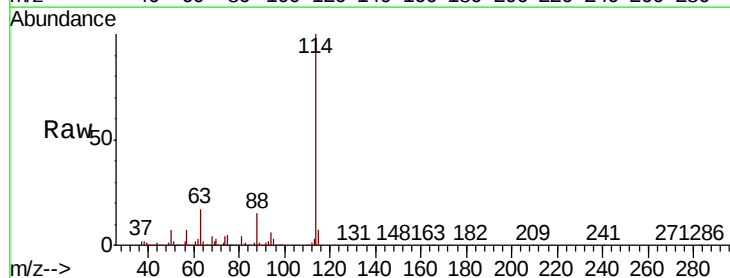
Tgt Ion: 114 Resp: 952733

Ion Ratio Lower Upper

114 100

63 17.3 0.0 34.8

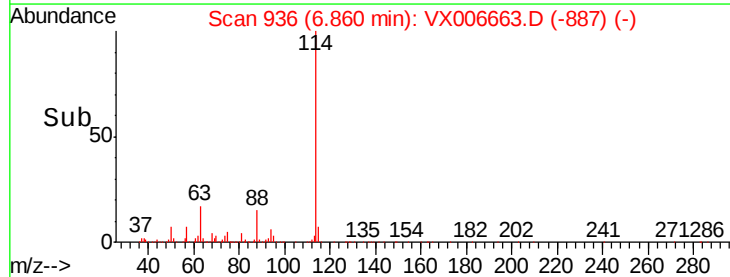
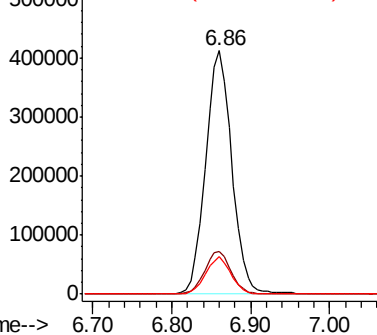
88 15.5 0.0 28.8

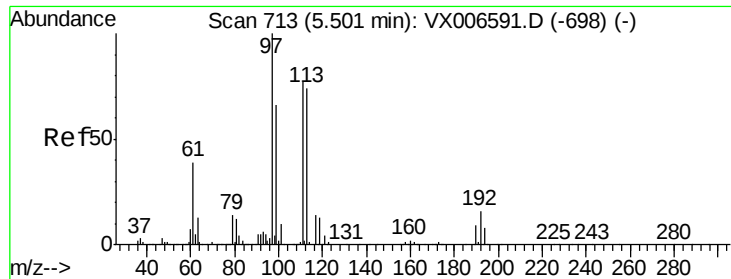


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 47.616 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX006663.D

Acq: 20 Dec 2018 09:34

Instrument :
MSVOA_X
ClientSampled :

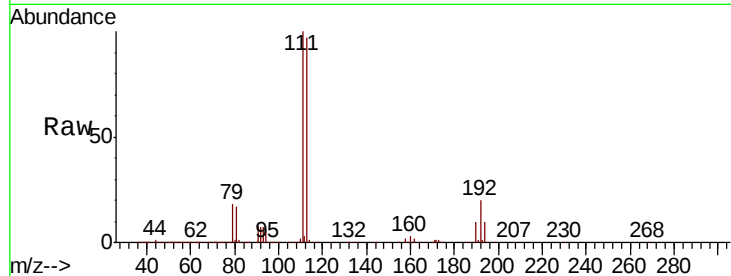
Tot Ion:113 Resp: 286879

Ion Ratio Lower Upper

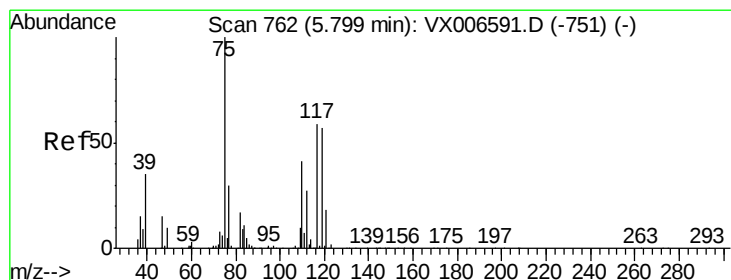
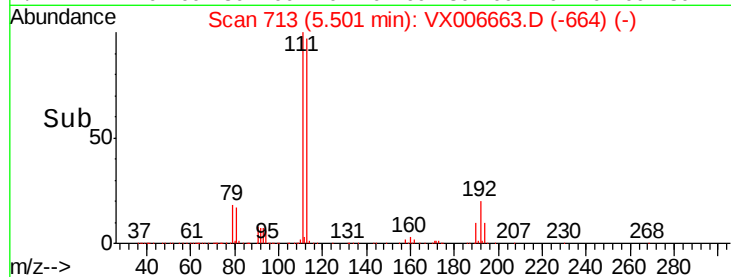
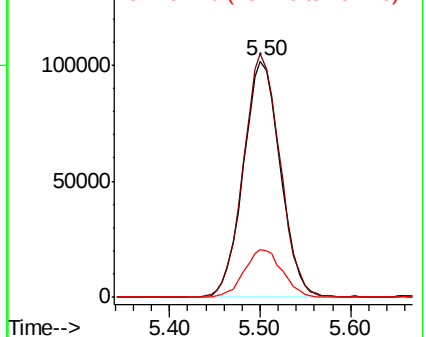
113 100

111 102.3 81.6 122.4

192 20.8 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: 4.980 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX006663.D

Acq: 20 Dec 2018 09:34

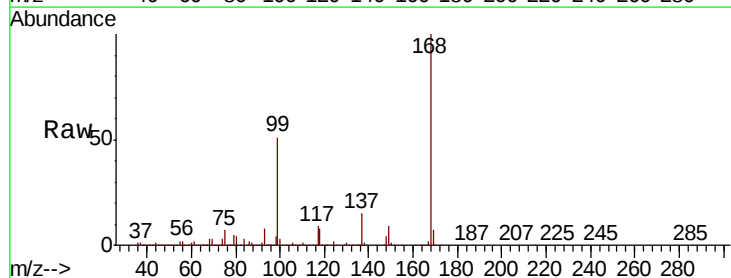
Tgt Ion: 75 Resp: 39299

Ion Ratio Lower Upper

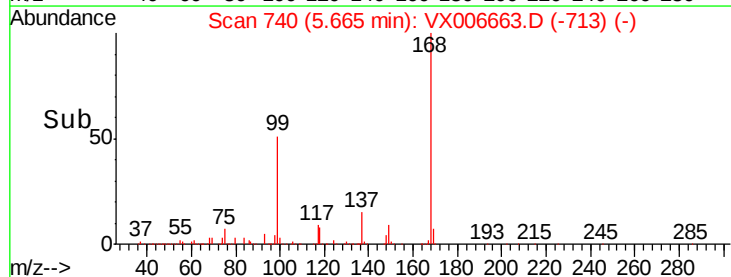
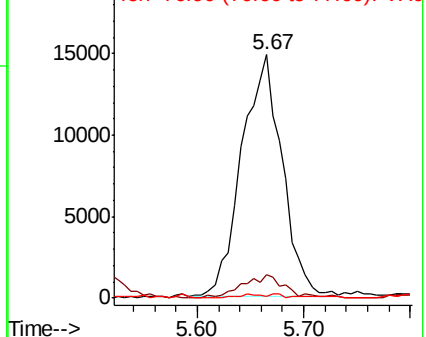
75 100

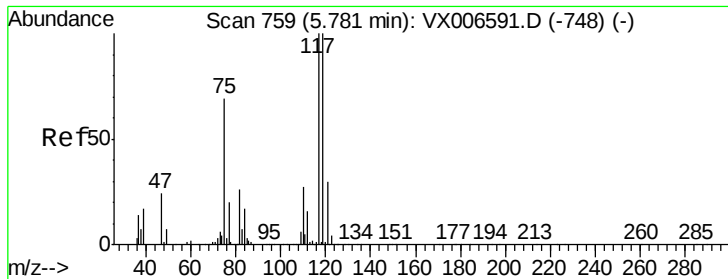
110 9.9 20.2 60.5#

77 0.5 24.8 37.2#



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: 7.425 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX006663.D

Acq: 20 Dec 2018 09:34

Instrument :

MSVOA_X

ClientSampled :

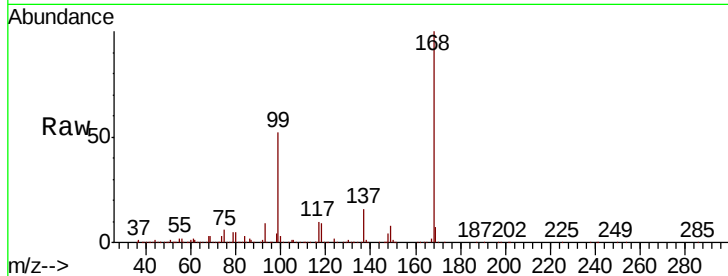
Tot Ion:117 Resp: 56943

Ion Ratio Lower Upper

117 100

119 2.7 79.4 119.2#

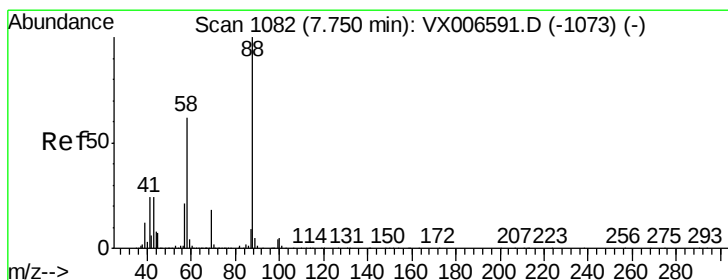
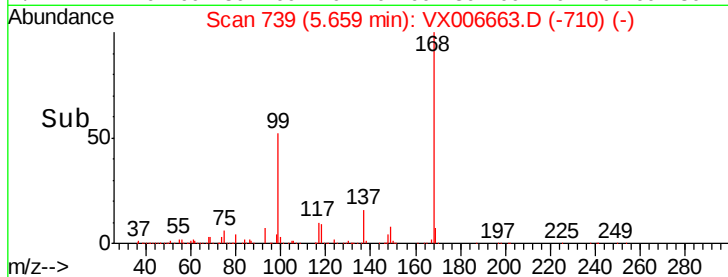
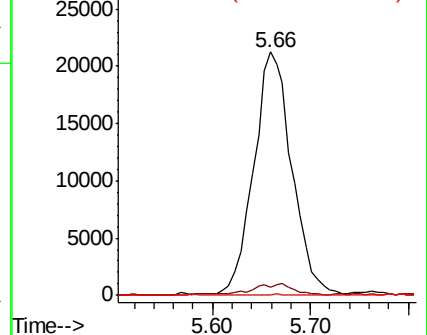
121 0.3 24.0 36.0#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#49

1,4-Dioxane

Concen: Below Cal

RT: 7.76 min Scan# 1083

Delta R.T. 0.01 min

Lab File: VX006663.D

Acq: 20 Dec 2018 09:34

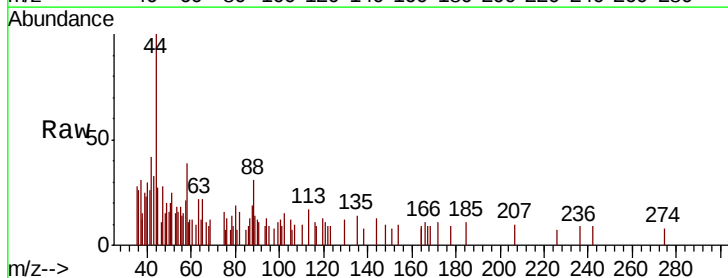
Tgt Ion: 88 Resp: 699

Ion Ratio Lower Upper

88 100

43 107.3 22.2 33.4#

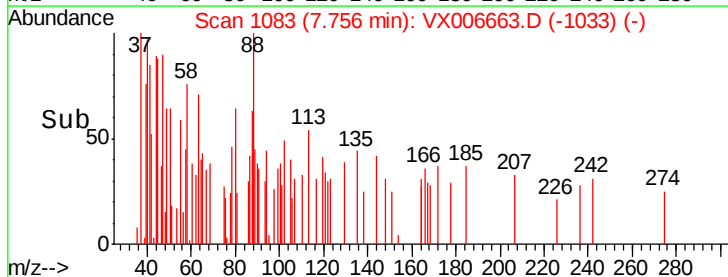
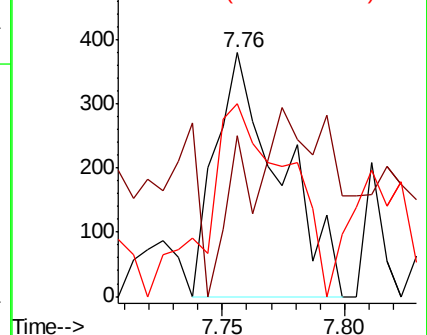
58 97.6 51.0 76.4#

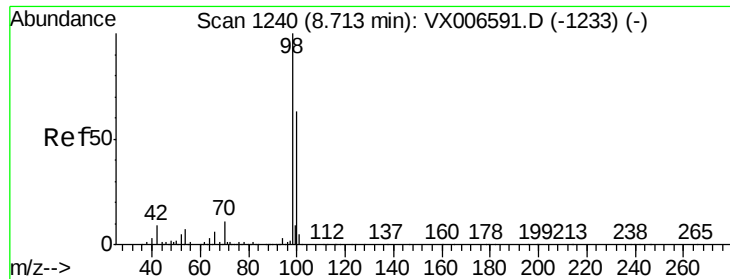


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 49.090 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX006663.D

Acq: 20 Dec 2018 09:34

Instrument :

MSVOA_X

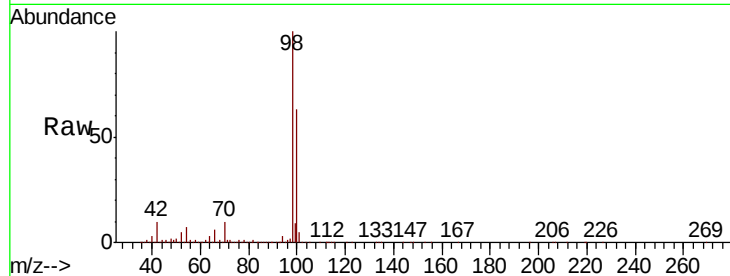
ClientSampleId :

Tot Ion: 98 Resp: 1115043

Ion Ratio Lower Upper

98 100

100 63.8 52.0 78.0



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX

8.71

800000

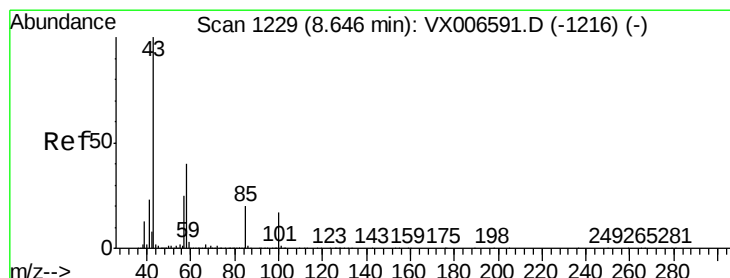
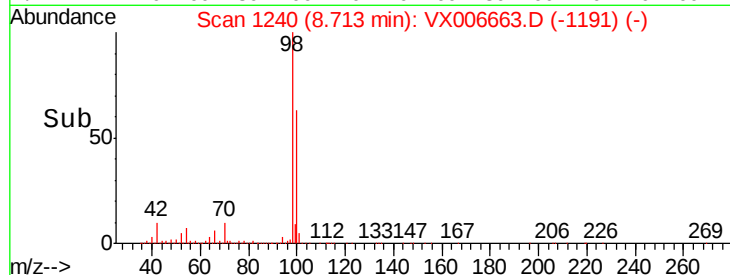
600000

400000

200000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.257 ug/l

RT: 8.65 min Scan# 1230

Delta R.T. 0.01 min

Lab File: VX006663.D

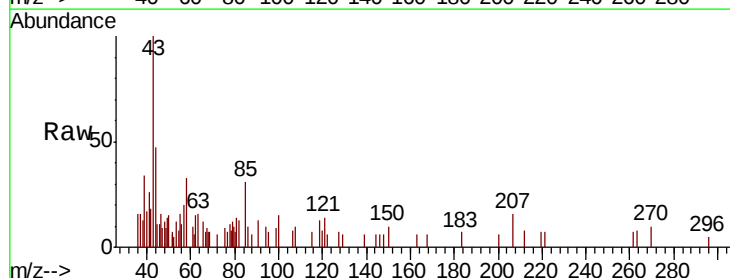
Acq: 20 Dec 2018 09:34

Tgt Ion: 43 Resp: 2046

Ion Ratio Lower Upper

43 100

58 49.9 31.8 47.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

6000

5000

4000

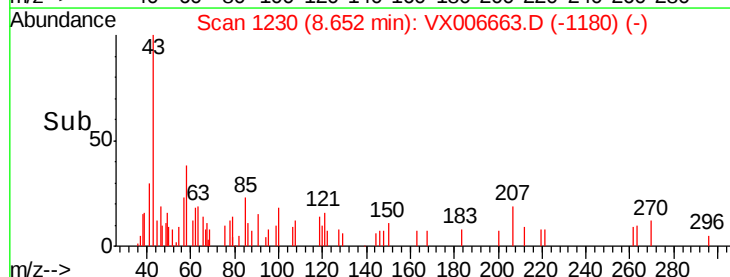
3000

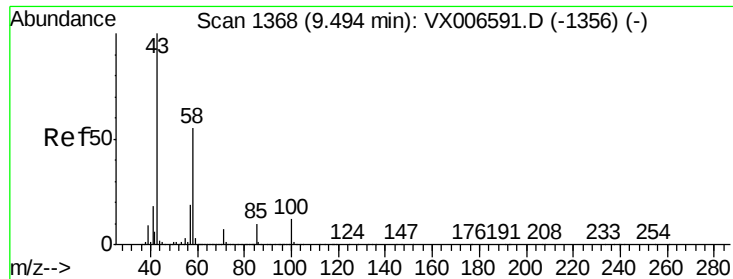
2000

1000

0

Time-->

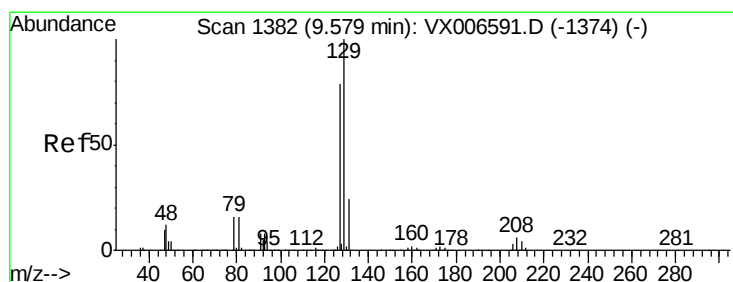
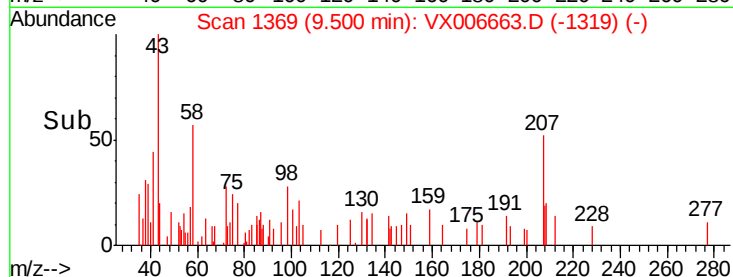
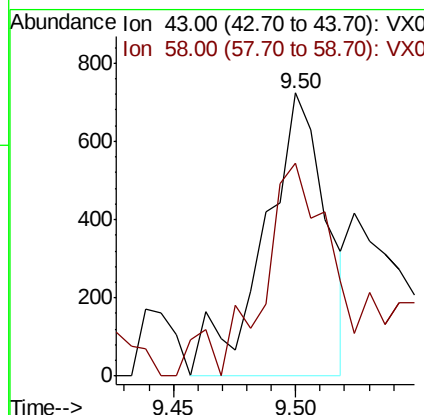
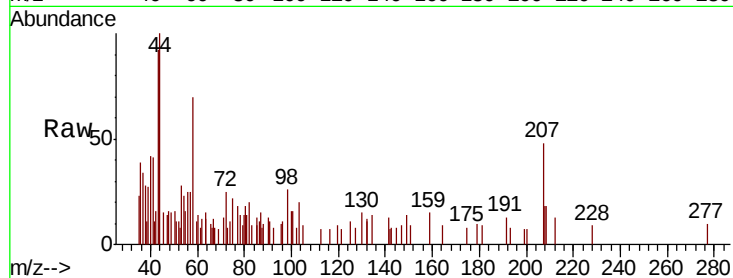




#59
2-Hexanone
Concen: 0.209 ug/l
RT: 9.50 min Scan# 1369
Delta R.T. 0.01 min
Lab File: VX006663.D
Acq: 20 Dec 2018 09:34

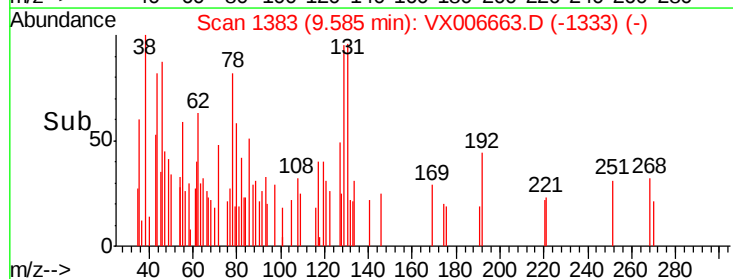
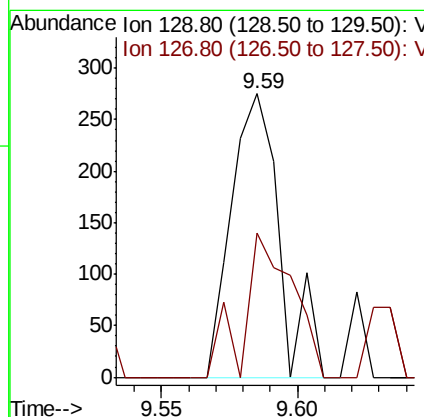
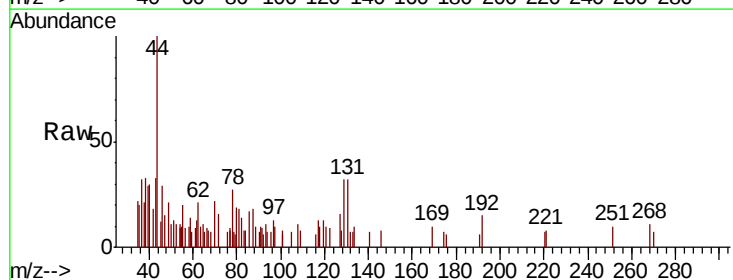
Instrument :
MSVOA_X
ClientSampleId :

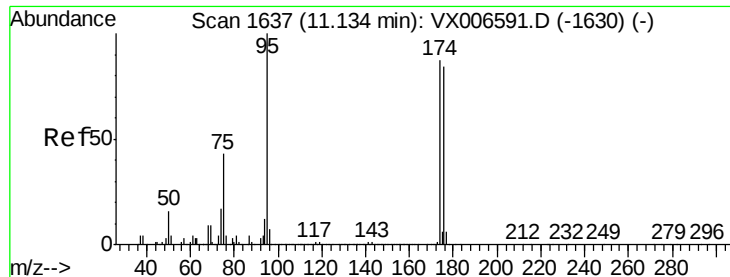
Tot Ion: 43 Resp: 1271
Ion Ratio Lower Upper
43 100
58 77.6 27.7 83.1



#60
Dibromochloromethane
Concen: 2.373 ug/l
RT: 9.59 min Scan# 1383
Delta R.T. 0.01 min
Lab File: VX006663.D
Acq: 20 Dec 2018 09:34

Tgt Ion: 129 Resp: 339
Ion Ratio Lower Upper
129 100
127 51.6 39.3 117.8





#62

4-Bromofluorobenzene

Concen: 48.358 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX006663.D

Acq: 20 Dec 2018 09:34

Instrument :

MSVOA_X

ClientSampleId :

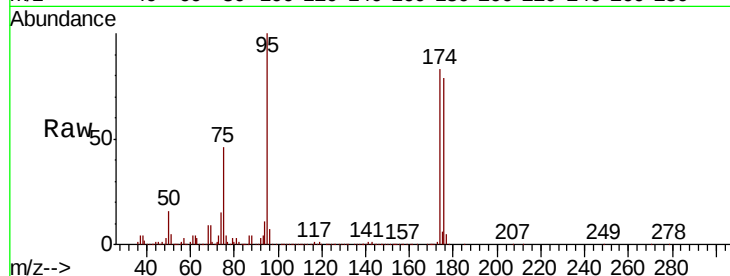
Tot Ion: 95 Resp: 402284

Ion Ratio Lower Upper

95 100

174 88.6 0.0 182.2

176 84.9 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

11.13

400000

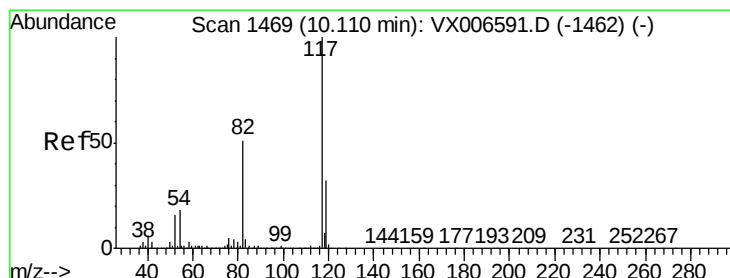
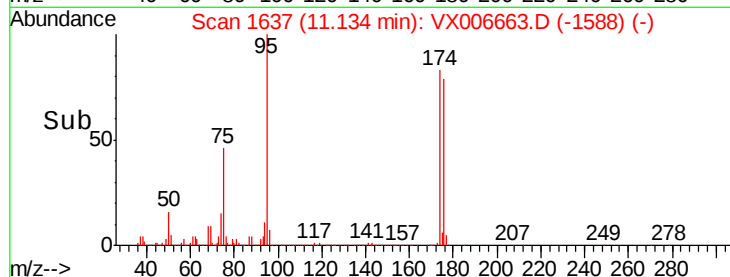
300000

200000

100000

0

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VX006663.D

Acq: 20 Dec 2018 09:34

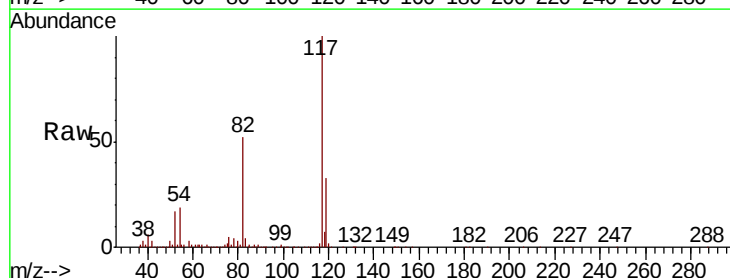
Tgt Ion: 117 Resp: 861800

Ion Ratio Lower Upper

117 100

82 52.5 41.0 61.6

119 32.8 25.4 38.0



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

10.11

800000

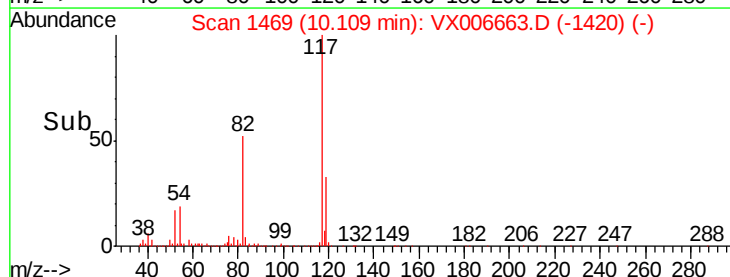
600000

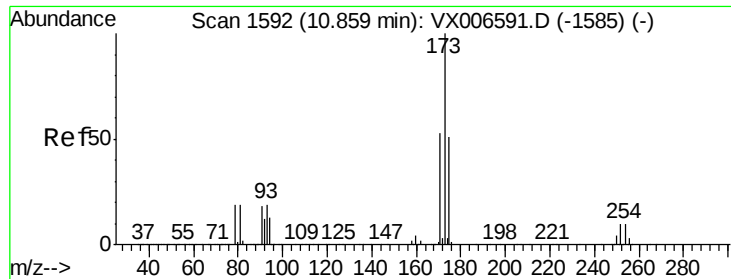
400000

200000

0

Time-->





#71

Bromoform

Concen: 4.481 ug/l

RT: 10.86 min Scan# 1592

Delta R.T. 0.00 min

Lab File: VX006663.D

Acq: 20 Dec 2018 09:34

Instrument :

MSVOA_X

ClientSampleId :

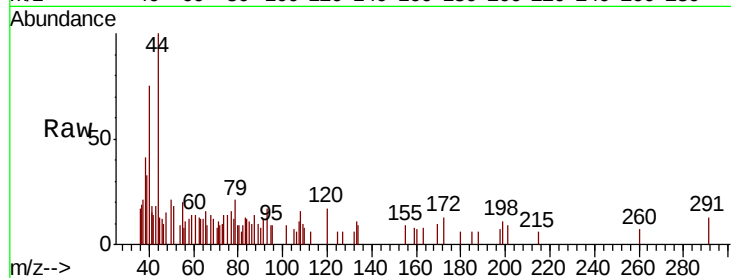
Tot Ion:173 Resp: 120

Ion Ratio Lower Upper

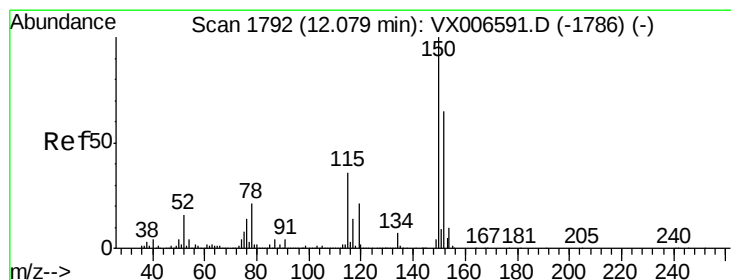
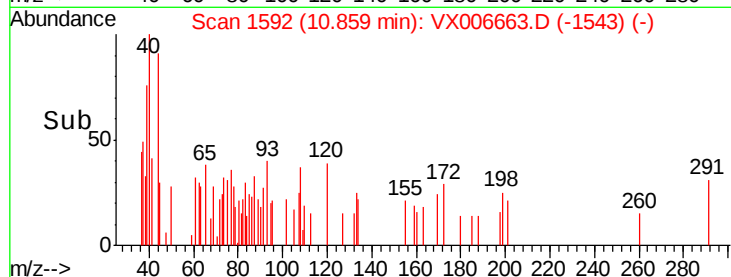
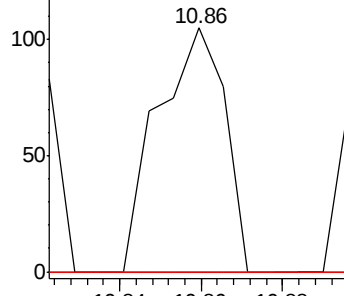
173 100

175 0.0 24.7 74.1#

254 0.0 0.2 0.2#



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX006663.D

Acq: 20 Dec 2018 09:34

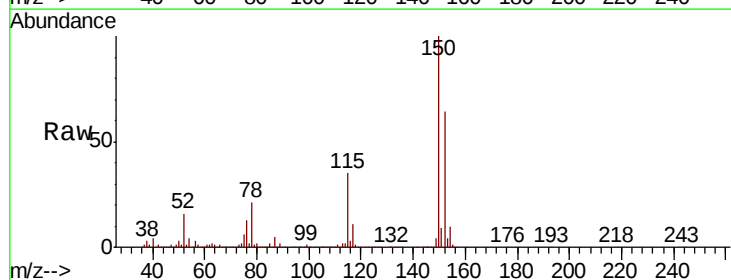
Tgt Ion:152 Resp: 416981

Ion Ratio Lower Upper

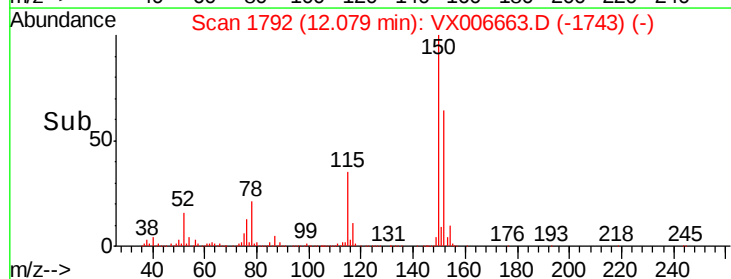
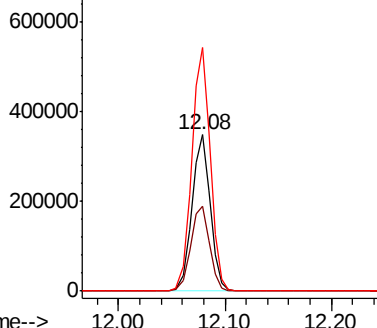
152 100

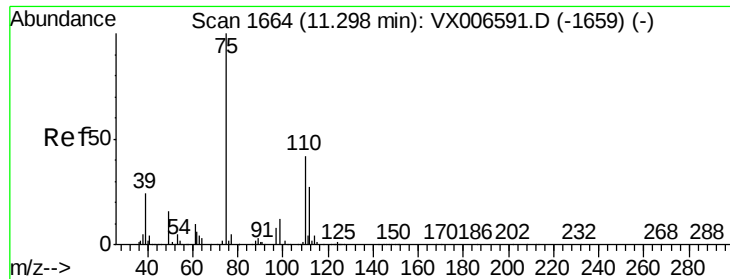
115 55.9 39.1 117.2

150 156.9 0.0 344.8



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

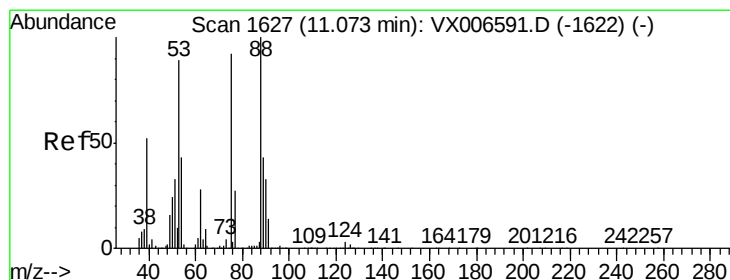
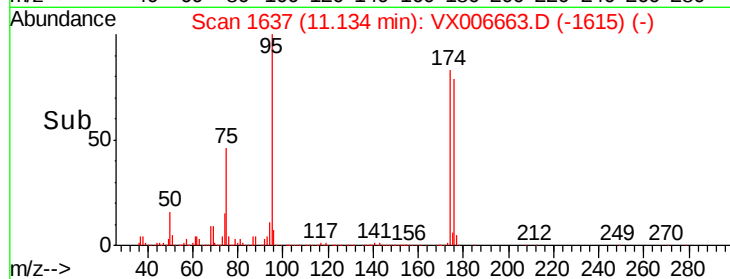
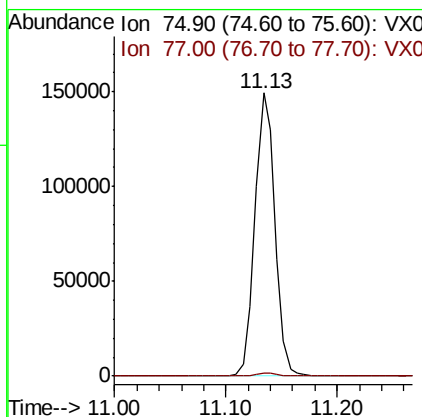
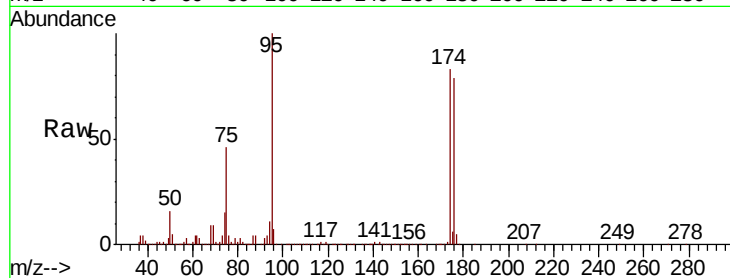




#76
 1,2,3-Trichloropropane
 Concen: 24.160 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.16 min
 Lab File: VX006663.D
 Acq: 20 Dec 2018 09:34

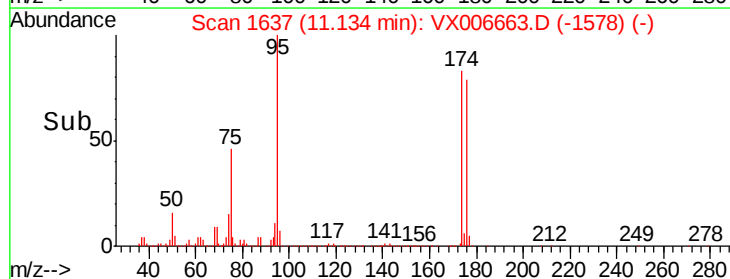
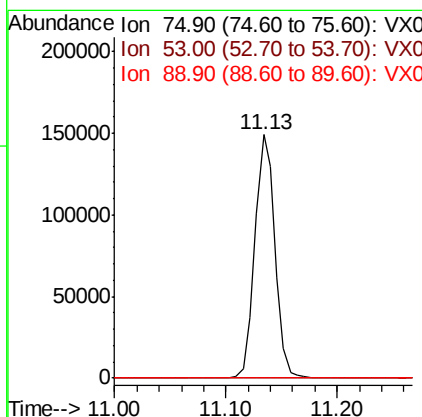
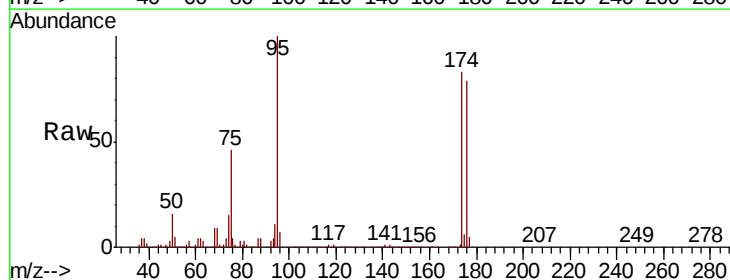
Instrument :
 MSVOA_X
 ClientSampleId :

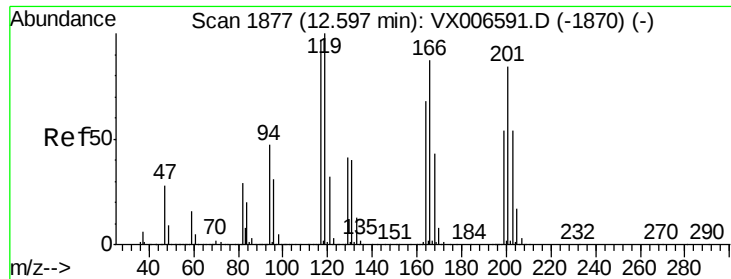
Tot Ion: 75 Resp: 187223
 Ion Ratio Lower Upper
 75 100
 77 1.2 18.5 55.5#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 71.535 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.06 min
 Lab File: VX006663.D
 Acq: 20 Dec 2018 09:34

Tgt Ion: 75 Resp: 187223
 Ion Ratio Lower Upper
 75 100
 53 0.2 79.7 119.5#
 89 0.1 38.0 57.0#





#90

Hexachloroethane

Concen: 3.304 ug/l

RT: 12.50 min Scan# 1861

Delta R.T. -0.10 min

Lab File: VX006663.D

Acq: 20 Dec 2018 09:34

Instrument :

MSVOA_X

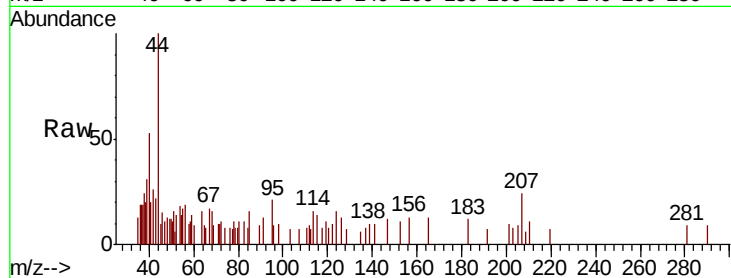
ClientSampleId :

Tot Ion:117 Resp: 46

Ion Ratio Lower Upper

117 100

201 102.2 42.9 128.7



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

