

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX121918\
 Data File : VX006647.D
 Acq On : 19 Dec 2018 19:51
 Operator : JC/MD
 Sample : J6479-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Dec 20 04:04:37 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

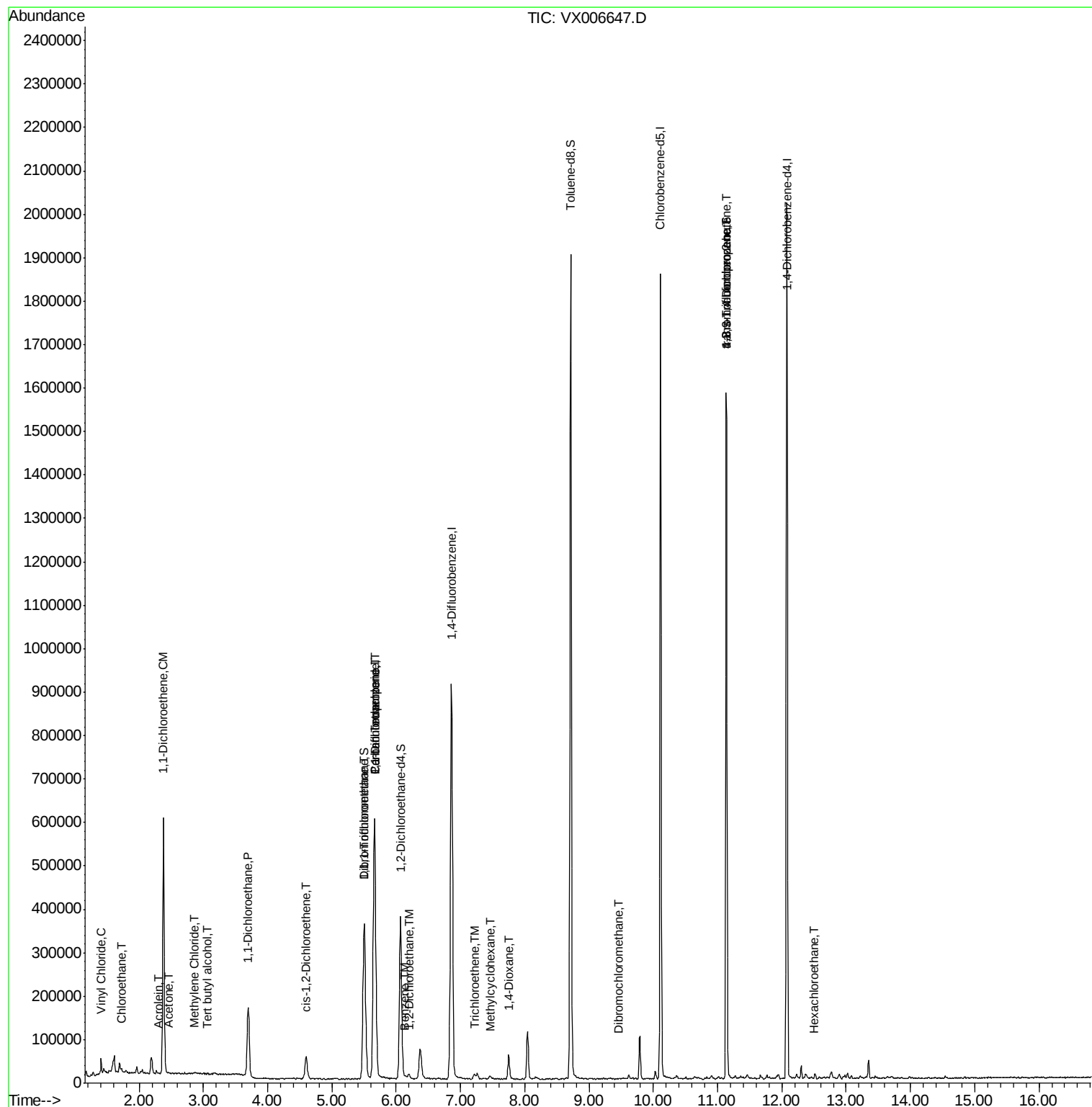
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	611079	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	988405	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	905849	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	431027	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.07	65	341550	51.86	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.72%	
35) Dibromofluoromethane	5.50	113	292720	46.83	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.66%	
50) Toluene-d8	8.71	98	1170060	49.65	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.30%	
62) 4-Bromofluorobenzene	11.13	95	424307	49.16	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.32%	
Target Compounds						
					Qvalue	
4) Vinyl Chloride	1.41	62	19509	3.102	ug/l	92
5) Bromomethane	1.65	94	439	Below Cal	#	65
6) Chloroethane	1.73	64	7546	1.733	ug/l	89
11) Tert butyl alcohol	3.05	59	1068	0.727	ug/l #	38
12) 1,1-Dichloroethene	2.38	96	207110	37.934	ug/l	97
13) Acrolein	2.30	56	222	0.224	ug/l #	13
16) Acetone	2.45	43	2142	0.708	ug/l	89
20) Methylene Chloride	2.87	84	2184	0.349	ug/l #	66
24) 1,1-Dichloroethane	3.70	63	187424	18.674	ug/l	99
27) cis-1,2-Dichloroethene	4.60	96	35495	5.318	ug/l	90
28) Bromochloromethane	5.03	49	151	Below Cal	#	1
32) 1,1,1-Trichloroethane	5.50	97	20259	2.308	ug/l	97
36) 1,1-Dichloropropene	5.66	75	40707	4.973	ug/l #	48
38) Carbon Tetrachloride	5.66	117	56555	7.109	ug/l #	14
39) Methylcyclohexane	7.47	83	3584	0.333	ug/l #	80
40) Benzene	6.14	78	6636	0.267	ug/l #	88
42) 1,2-Dichloroethane	6.20	62	11947	1.409	ug/l	92
44) Trichloroethene	7.22	130	4905	0.651	ug/l	83
49) 1,4-Dioxane	7.75	88	43915	239.470	ug/l	95
60) Dibromochloromethane	9.47	129	75	2.335	ug/l	56
76) 1,2,3-Trichloropropane	11.13	75	197545	24.661	ug/l #	40
81) trans-1,4-Dichloro-2-buten	11.13	75	197545	72.931	ug/l #	12
90) Hexachloroethane	12.49	117	114	3.319	ug/l	100

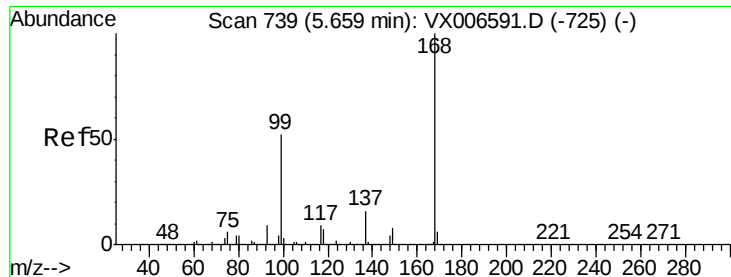
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX006647.D

Acq: 19 Dec 2018 19:51

Instrument :

MSVOA_X

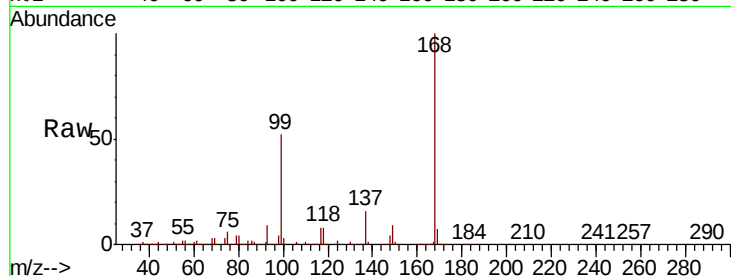
ClientSampleId :

Tot Ion:168 Resp: 611079

Ion Ratio Lower Upper

168 100

99 51.6 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

200000

150000

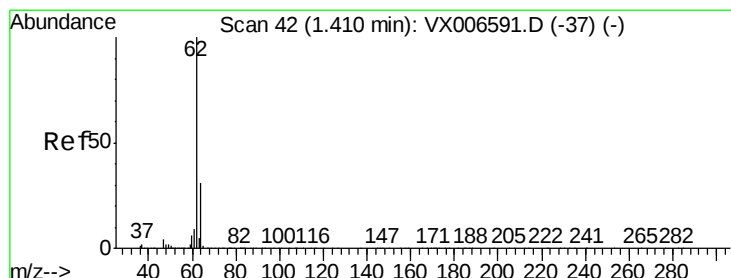
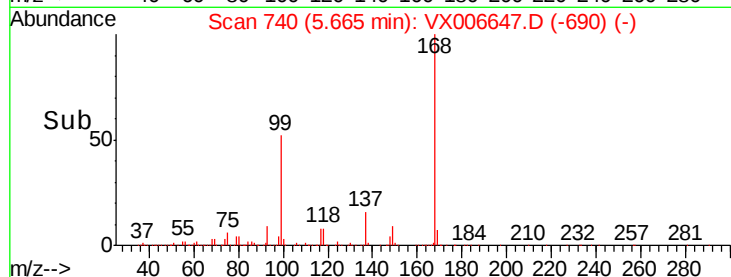
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#4

Vinyl Chloride

Concen: 3.102 ug/l

RT: 1.41 min Scan# 42

Delta R.T. 0.00 min

Lab File: VX006647.D

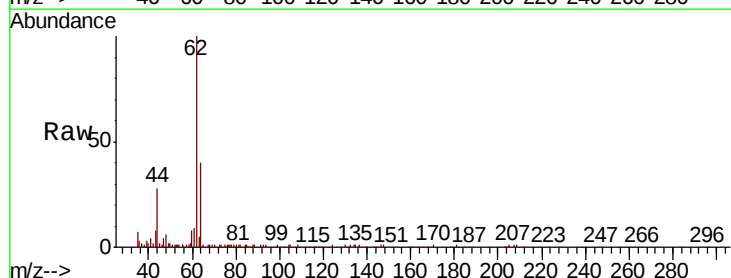
Acq: 19 Dec 2018 19:51

Tgt Ion: 62 Resp: 19509

Ion Ratio Lower Upper

62 100

64 36.0 25.1 37.7



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0

1.41

20000

15000

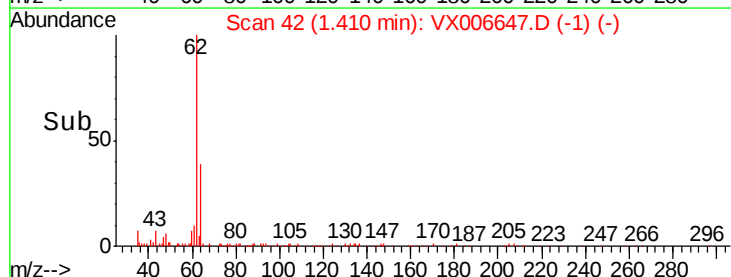
10000

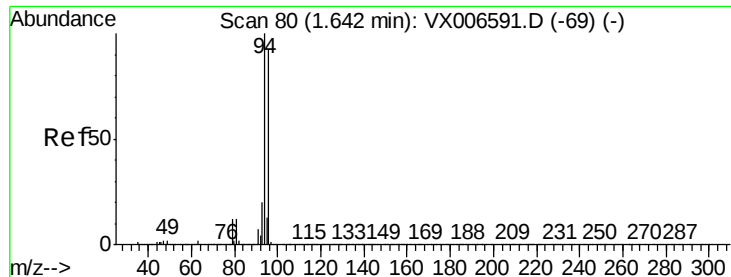
5000

0

Time-->

1.35 1.40 1.45





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 82

Delta R.T. 0.01 min

Lab File: VX006647.D

Acq: 19 Dec 2018 19:51

Instrument :

MSVOA_X

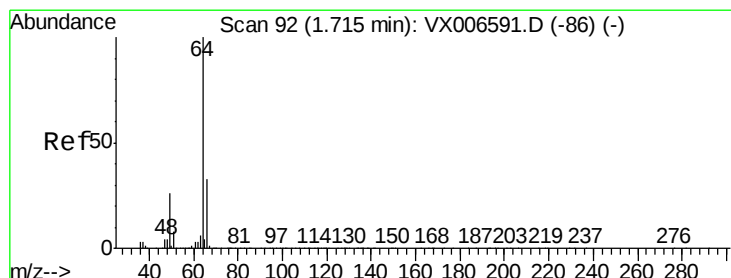
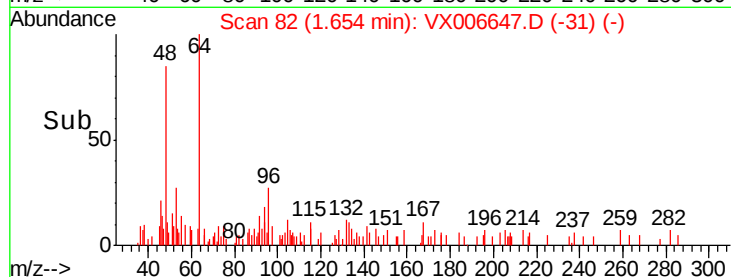
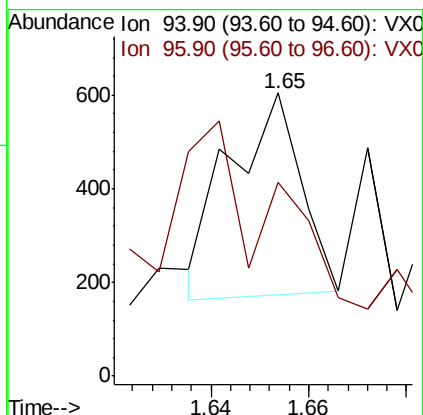
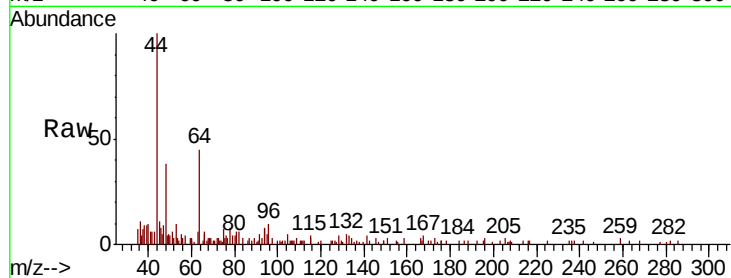
ClientSampleId :

Tot Ion: 94 Resp: 439

Ion Ratio Lower Upper

94 100

96 58.3 73.4 110.2#



#6

Chloroethane

Concen: 1.733 ug/l

RT: 1.73 min Scan# 94

Delta R.T. 0.01 min

Lab File: VX006647.D

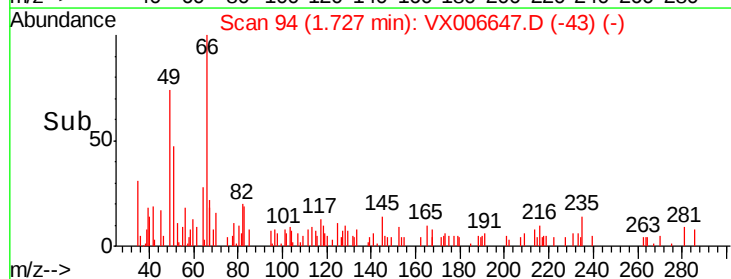
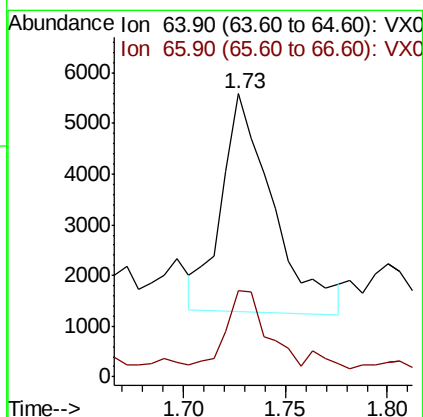
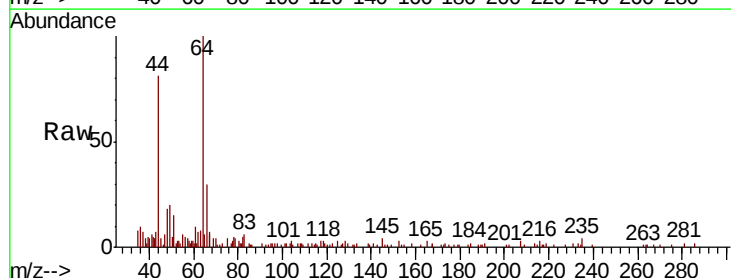
Acq: 19 Dec 2018 19:51

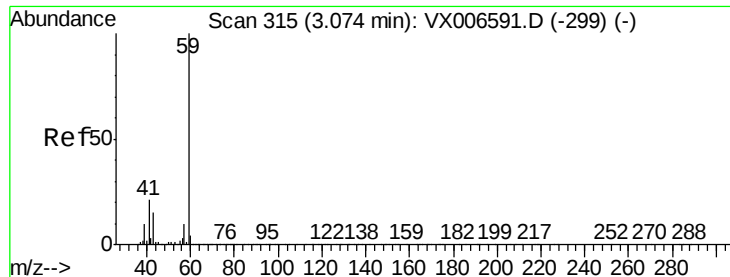
Tgt Ion: 64 Resp: 7546

Ion Ratio Lower Upper

64 100

66 39.1 26.4 39.6



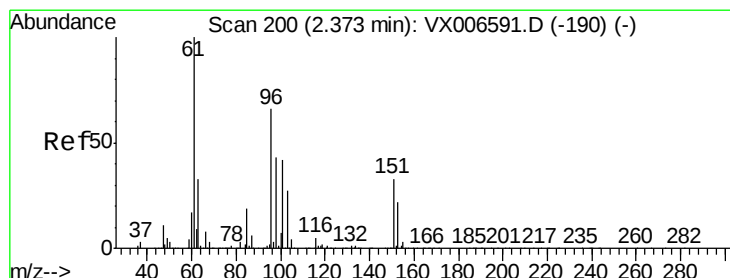
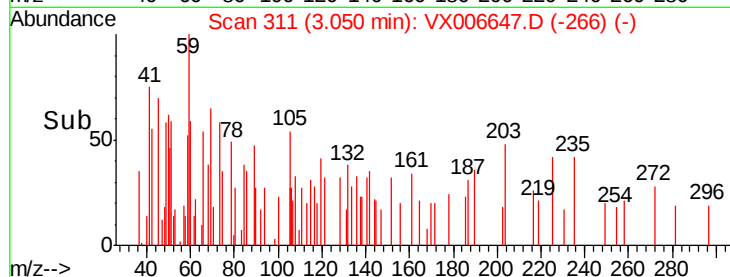
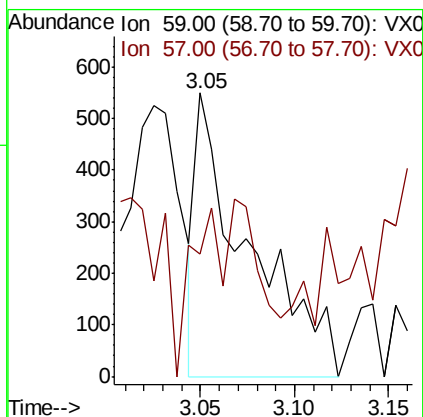
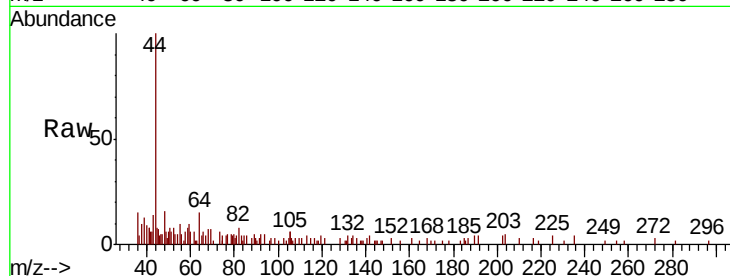


#11

Tert butyl alcohol
 Concen: 0.727 ug/l
 RT: 3.05 min Scan# 311
 Delta R.T. -0.02 min
 Lab File: VX006647.D
 Acq: 19 Dec 2018 19:51

Instrument :
 MSVOA_X
 ClientSampled :

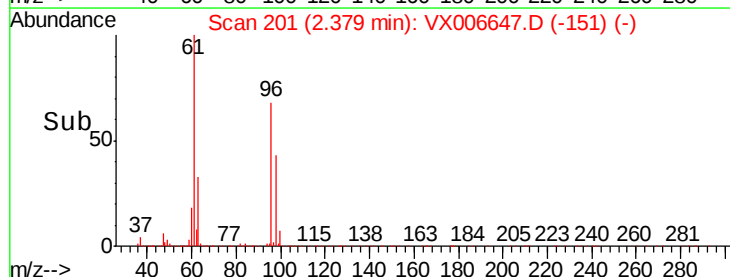
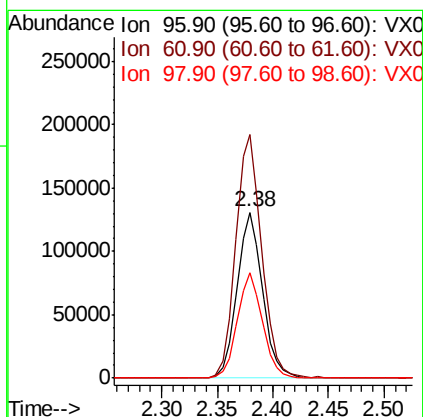
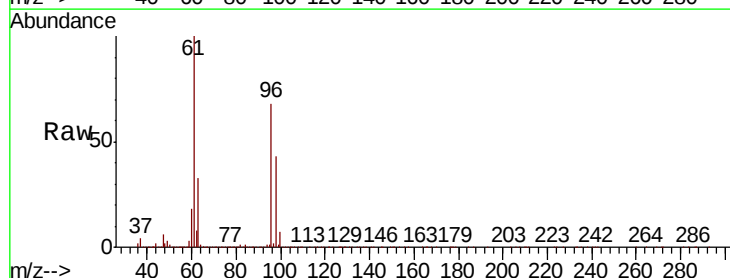
Tot Ion: 59 Resp: 1068
 Ion Ratio Lower Upper
 59 100
 57 34.0 8.5 12.7#

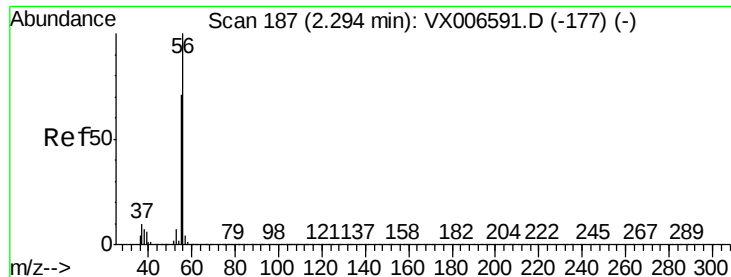


#12

1,1-Dichloroethene
 Concen: 37.934 ug/l
 RT: 2.38 min Scan# 201
 Delta R.T. 0.01 min
 Lab File: VX006647.D
 Acq: 19 Dec 2018 19:51

Tgt Ion: 96 Resp: 207110
 Ion Ratio Lower Upper
 96 100
 61 147.0 121.4 182.2
 98 63.7 51.9 77.9





#13

Acrolein

Concen: 0.224 ug/l

RT: 2.30 min Scan# 188

Delta R.T. 0.01 min

Lab File: VX006647.D

Acq: 19 Dec 2018 19:51

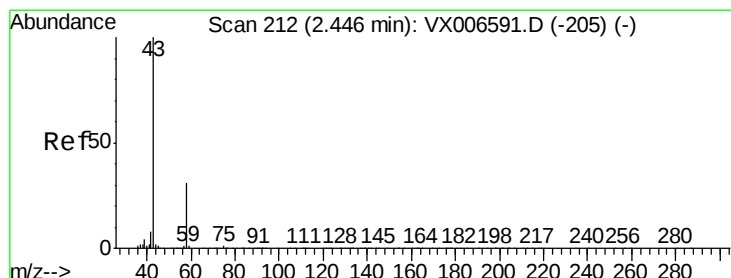
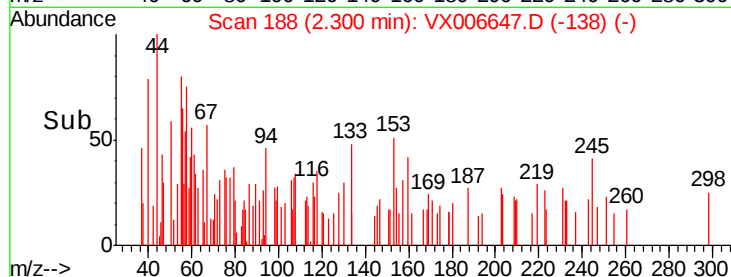
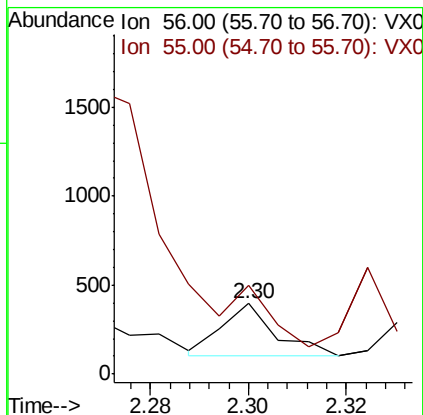
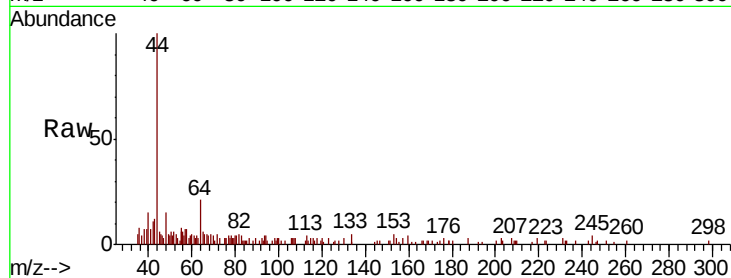
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 56 Resp: 222

Ion Ratio Lower Upper

56 100

55 0.0 58.2 87.4#



#16

Acetone

Concen: 0.708 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX006647.D

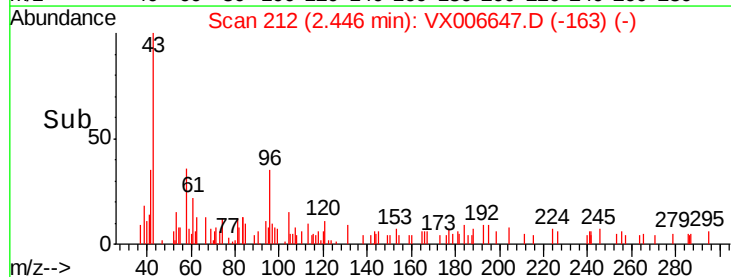
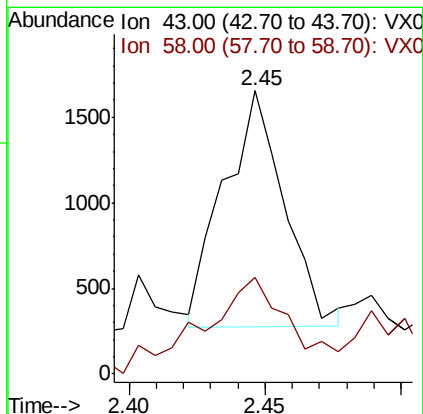
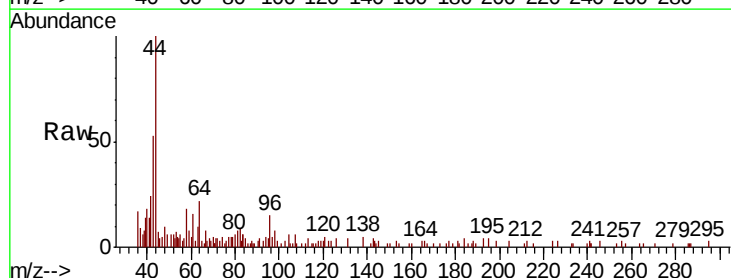
Acq: 19 Dec 2018 19:51

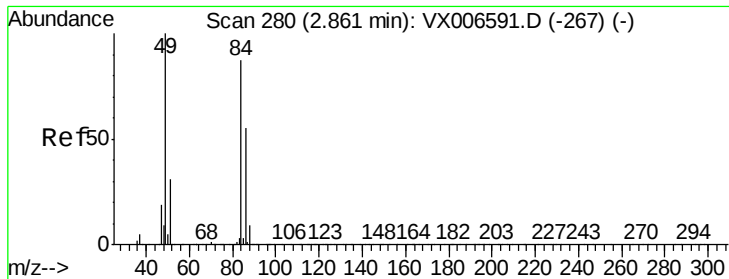
Tgt Ion: 43 Resp: 2142

Ion Ratio Lower Upper

43 100

58 25.2 25.0 37.6

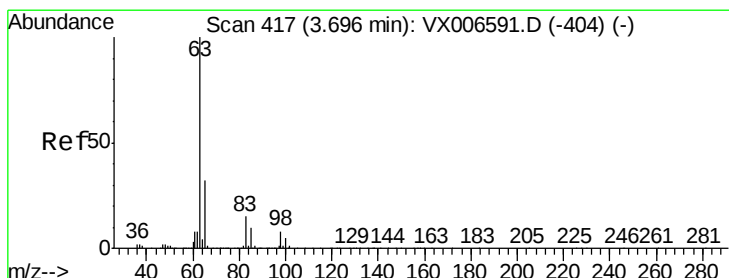
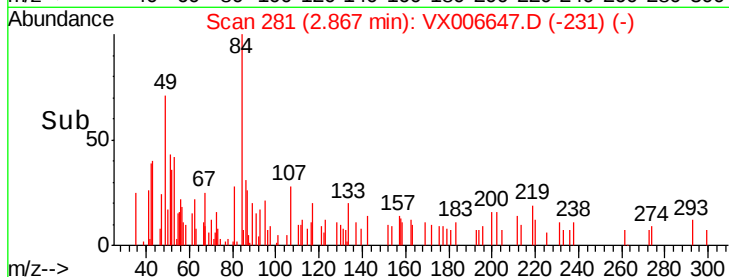
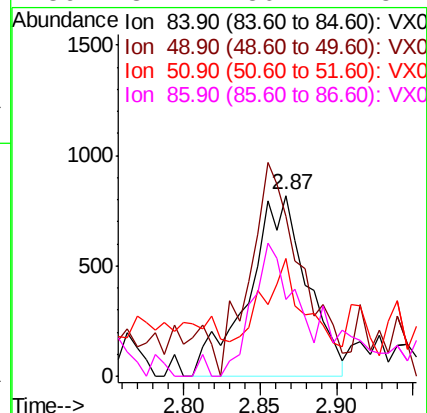
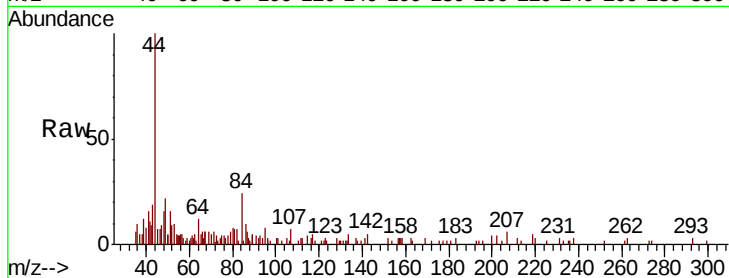




#20
Methvlene Chloride
Concen: 0.349 ug/l
RT: 2.87 min Scan# 281
Delta R.T. 0.01 min
Lab File: VX006647.D
Acq: 19 Dec 2018 19:51

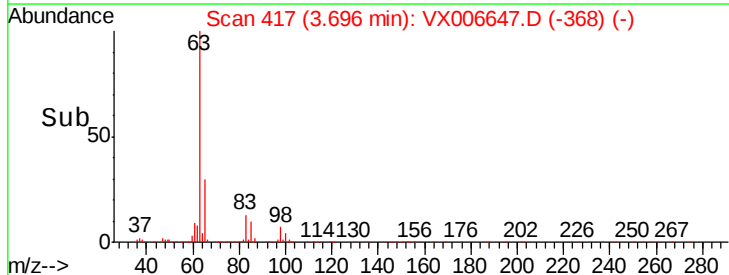
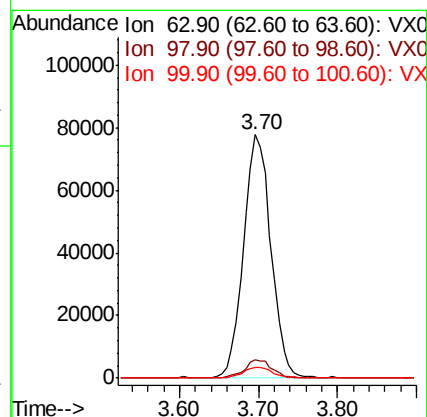
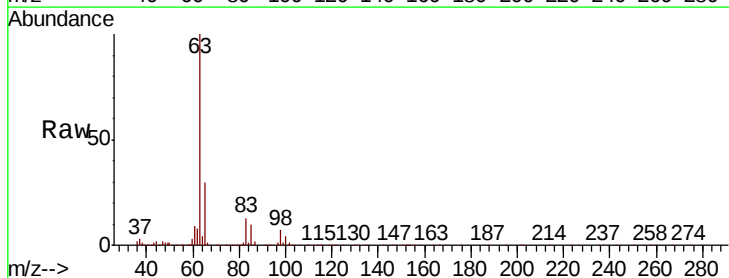
Instrument :
MSVOA_X
ClientSampled :

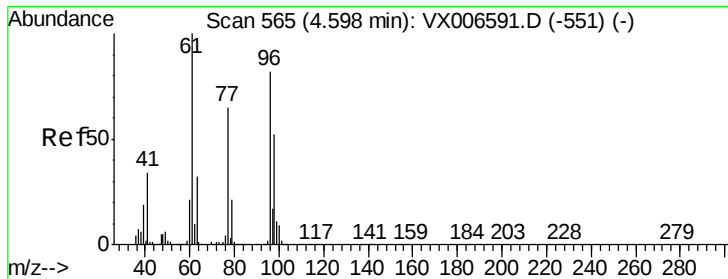
Tot Ion: 84 Resp: 2184
Ion Ratio Lower Upper
84 100
49 75.7 91.8 137.6#
51 49.0 28.5 42.7#
86 34.1 50.2 75.2#



#24
1,1-Dichloroethane
Concen: 18.674 ug/l
RT: 3.70 min Scan# 417
Delta R.T. 0.00 min
Lab File: VX006647.D
Acq: 19 Dec 2018 19:51

Tgt Ion: 63 Resp: 187424
Ion Ratio Lower Upper
63 100
98 7.5 3.9 11.5
100 4.2 2.4 7.2



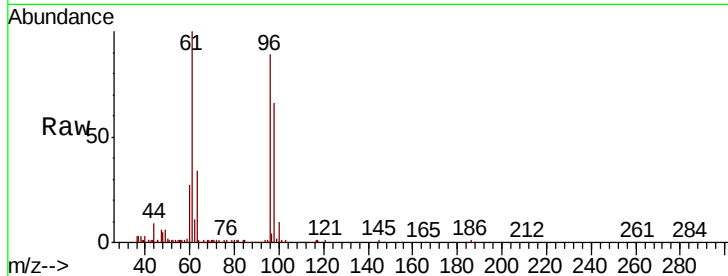


#27

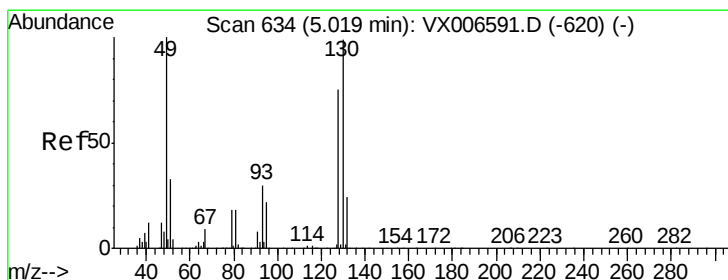
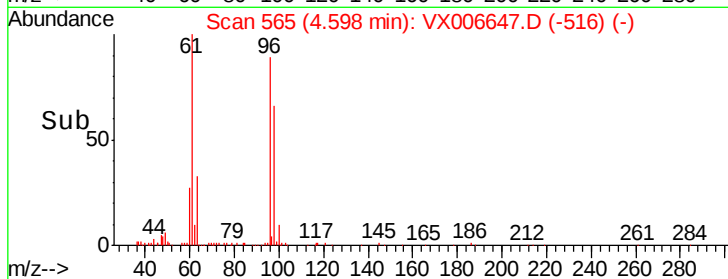
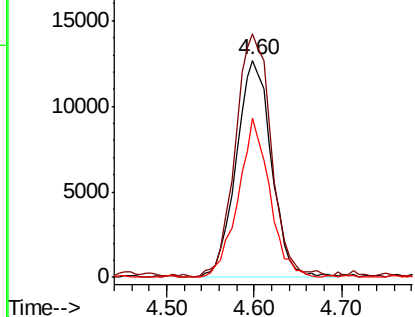
cis-1,2-Dichloroethene
 Concen: 5.318 ug/l
 RT: 4.60 min Scan# 565
 Delta R.T. 0.00 min
 Lab File: VX006647.D
 Acq: 19 Dec 2018 19:51

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion	96	Resp	35495
Ion Ratio	Lower	Upper	
96	100		
61	112.2	0.0	258.6
98	65.4	0.0	132.0



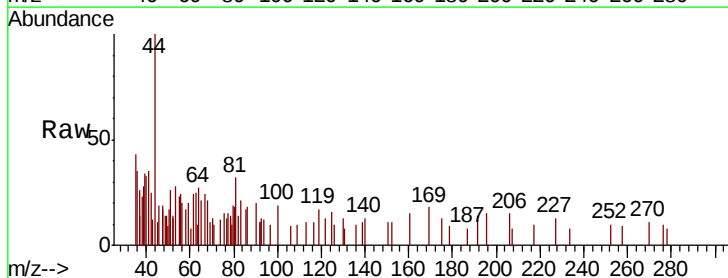
Abundance Ion 95.90 (95.60 to 96.60): VX0
 Ion 60.90 (60.60 to 61.60): VX0
 Ion 97.90 (97.60 to 98.60): VX0



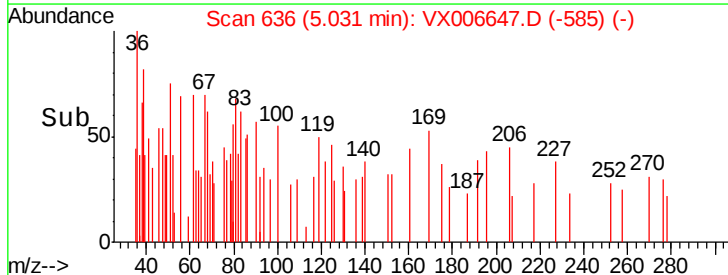
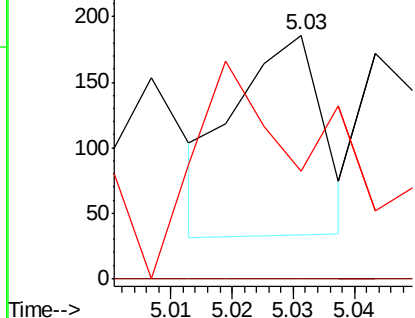
#28

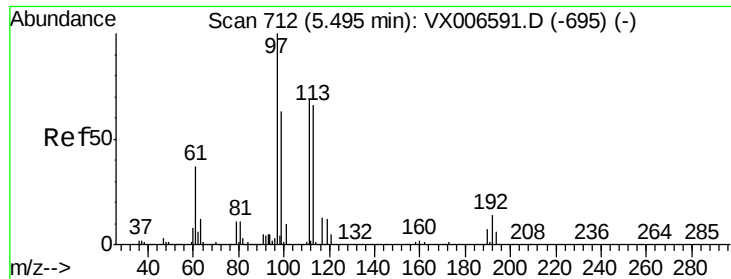
Bromochloromethane
 Concen: Below Cal
 RT: 5.03 min Scan# 636
 Delta R.T. 0.01 min
 Lab File: VX006647.D
 Acq: 19 Dec 2018 19:51

Tgt Ion	49	Resp	151
Ion Ratio	Lower	Upper	
49	100		
129	0.0	0.0	5.4
130	204.0	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





#32

1,1,1-Trichloroethane

Concen: 2.308 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.01 min

Lab File: VX006647.D

Acq: 19 Dec 2018 19:51

Instrument :

MSVOA_X

ClientSampleId :

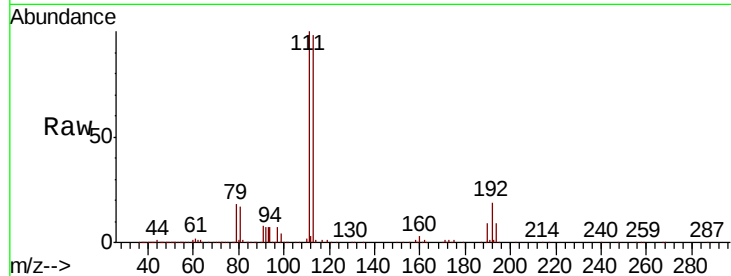
Tot Ion: 97 Resp: 20259

Ion Ratio Lower Upper

97 100

99 63.2 51.7 77.5

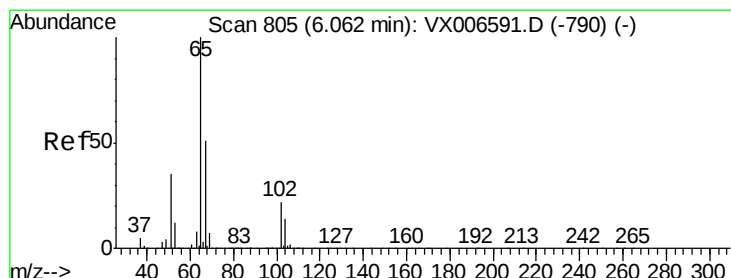
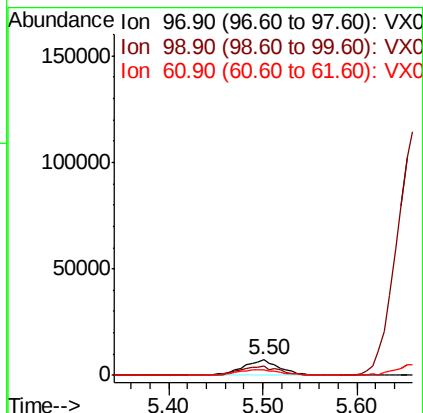
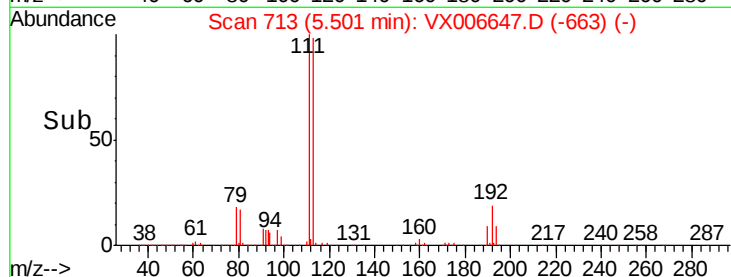
61 41.7 31.3 46.9



Abundance Ion 96.90 (96.60 to 97.60): VX0

Ion 98.90 (98.60 to 99.60): VX0

Ion 60.90 (60.60 to 61.60): VX0



#33

1,2-Dichloroethane-d4

Concen: 51.860 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.01 min

Lab File: VX006647.D

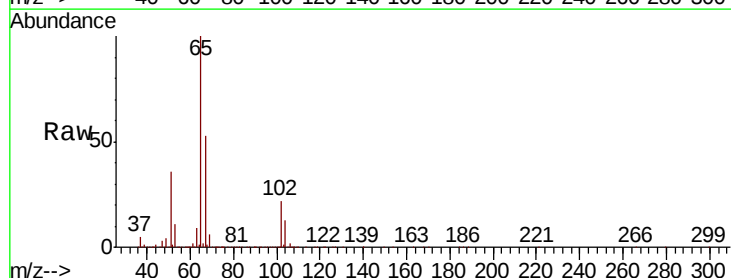
Acq: 19 Dec 2018 19:51

Tgt Ion: 65 Resp: 341550

Ion Ratio Lower Upper

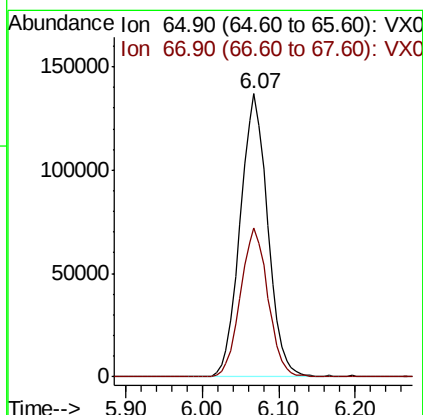
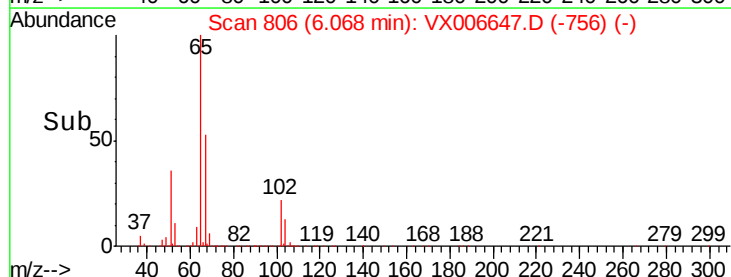
65 100

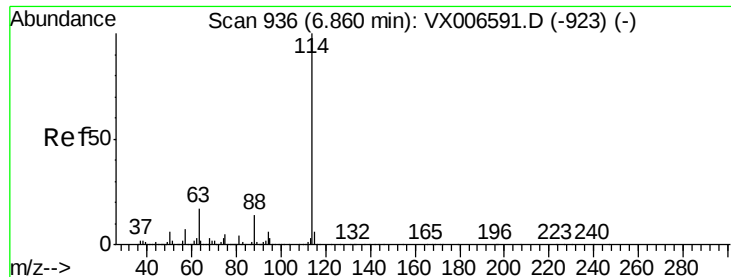
67 52.8 0.0 105.0



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: VX006647.D

Acq: 19 Dec 2018 19:51

Instrument :

MSVOA_X

ClientSampleId :

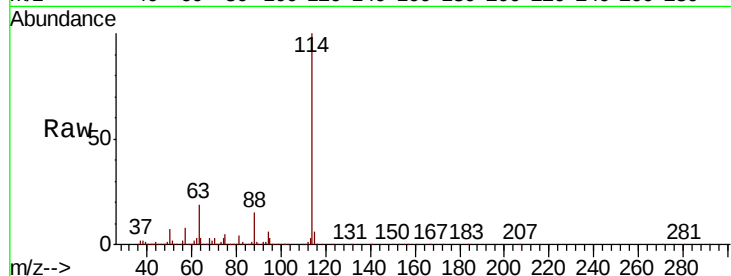
Tot Ion:114 Resp: 988405

Ion Ratio Lower Upper

114 100

63 18.5 0.0 34.8

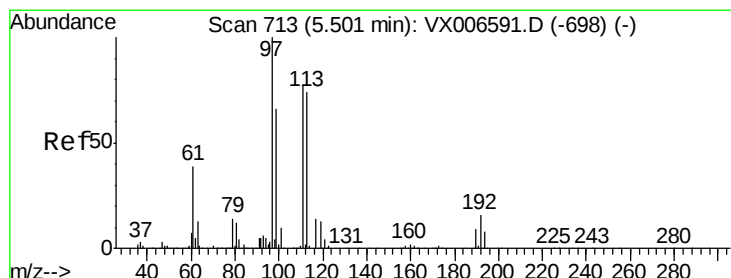
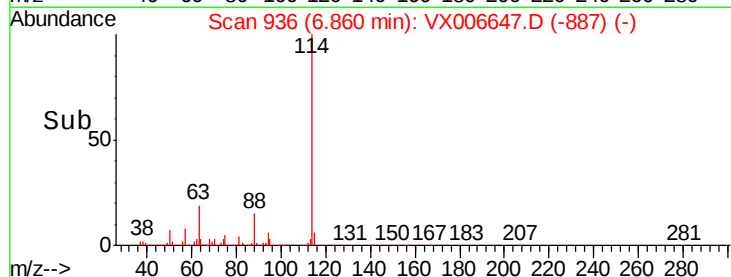
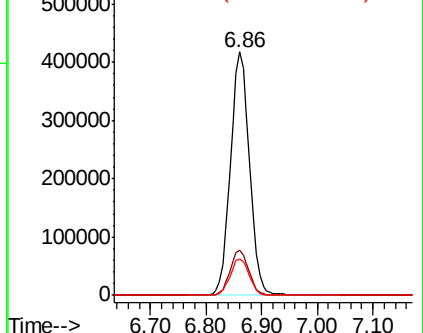
88 14.8 0.0 28.8



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: 46.832 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.00 min

Lab File: VX006647.D

Acq: 19 Dec 2018 19:51

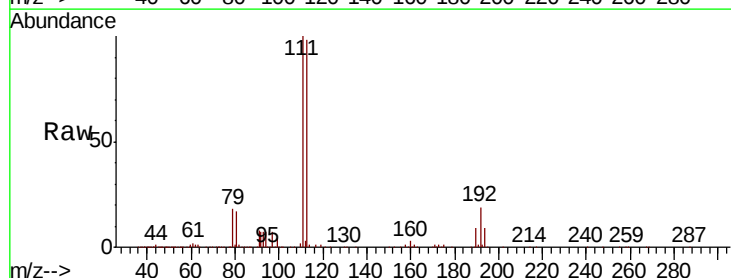
Tgt Ion:113 Resp: 292720

Ion Ratio Lower Upper

113 100

111 102.4 81.6 122.4

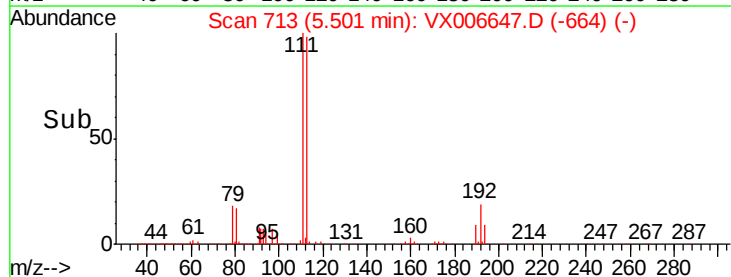
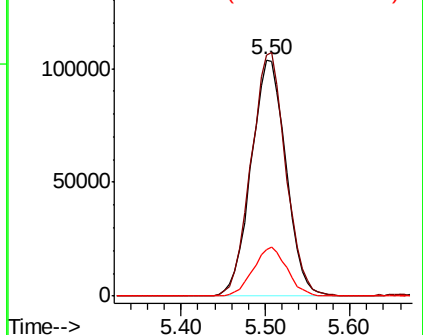
192 20.2 16.7 25.1

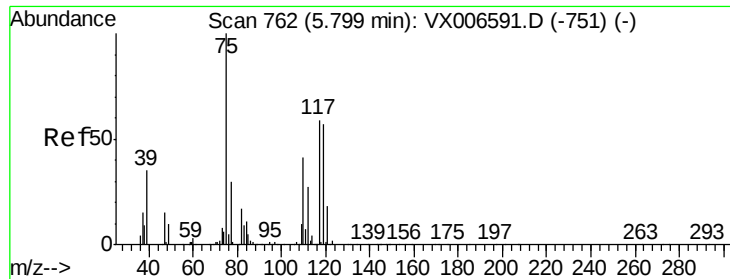


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

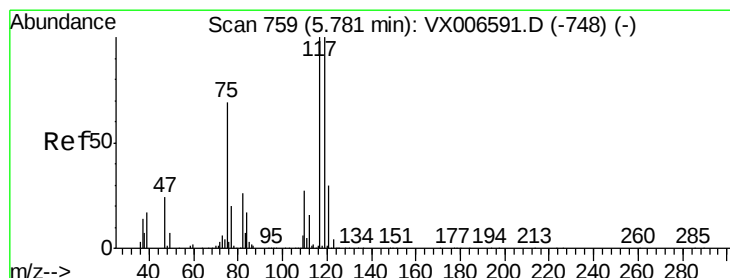
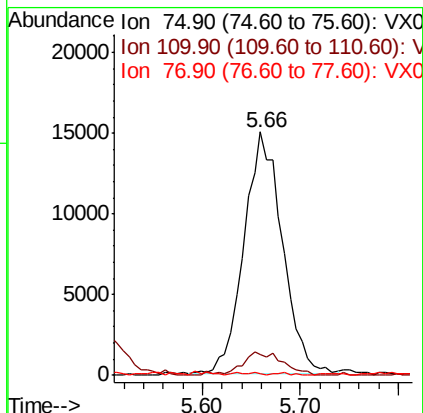
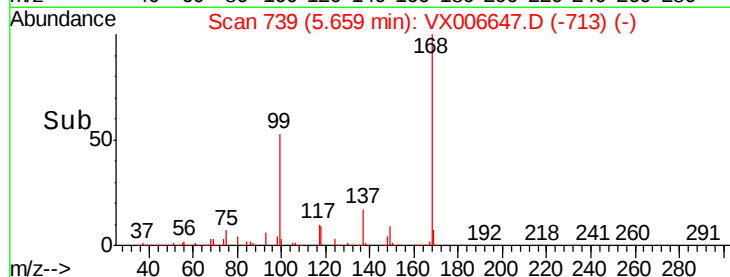
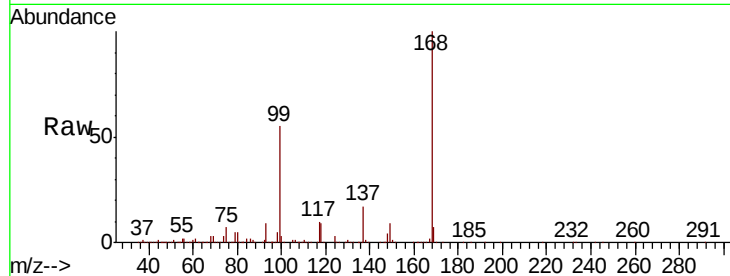




#36
 1,1-Dichloropropene
 Concen: 4.973 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX006647.D
 Acq: 19 Dec 2018 19:51

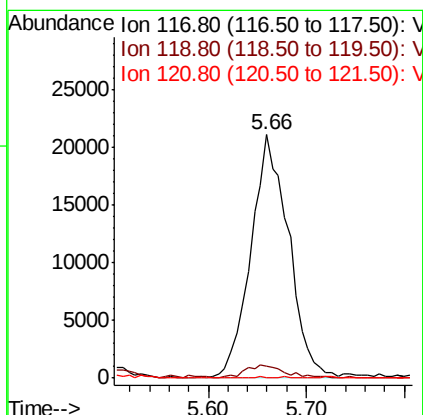
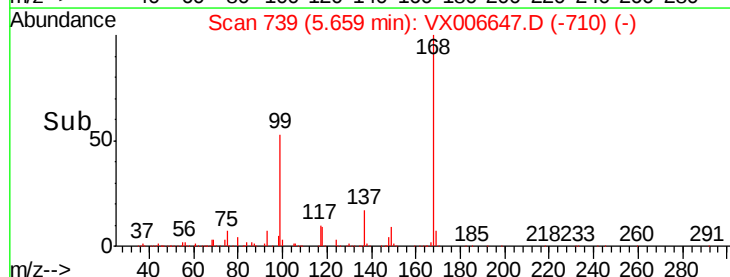
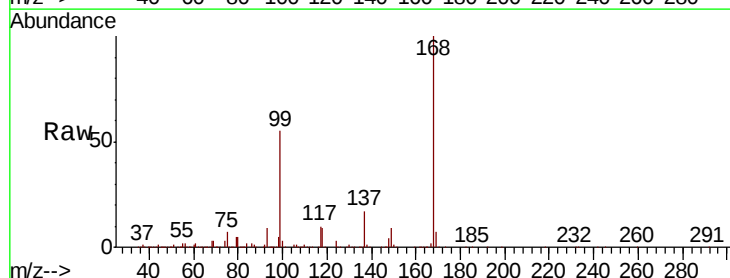
Instrument :
 MSVOA_X
 ClientSampleId :

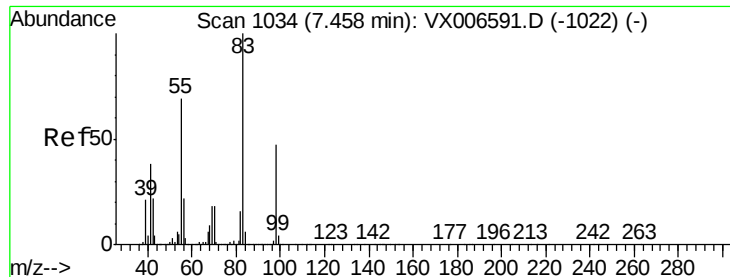
Tot Ion	Ratio	Lower	Upper
75	100		
110	9.8	20.2	60.5#
77	0.0	24.8	37.2#



#38
 Carbon Tetrachloride
 Concen: 7.109 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.12 min
 Lab File: VX006647.D
 Acq: 19 Dec 2018 19:51

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.3	79.4	119.2#
121	0.0	24.0	36.0#

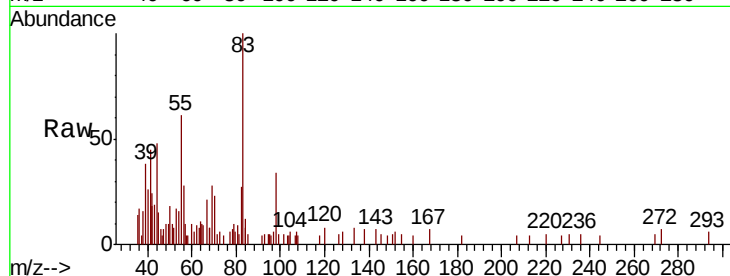




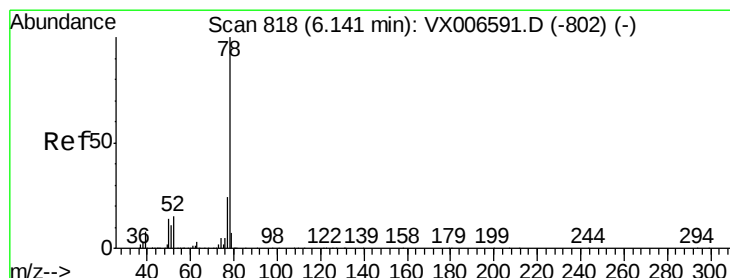
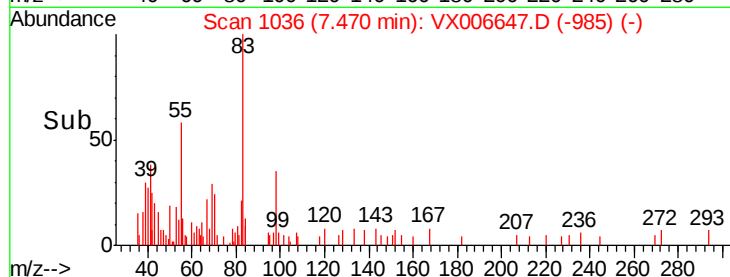
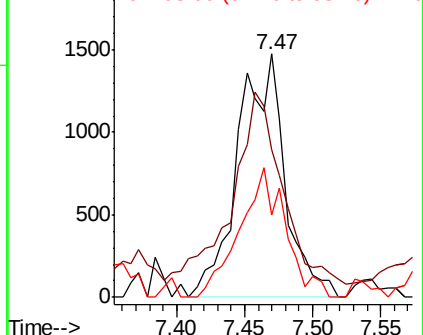
#39
Methvlcvclohexane
Concen: 0.333 ug/l
RT: 7.47 min Scan# 1036
Delta R.T. 0.01 min
Lab File: VX006647.D
Acq: 19 Dec 2018 19:51

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 83 Resp: 3584
Ion Ratio Lower Upper
83 100
55 53.1 54.9 82.3#
98 33.7 37.9 56.9#

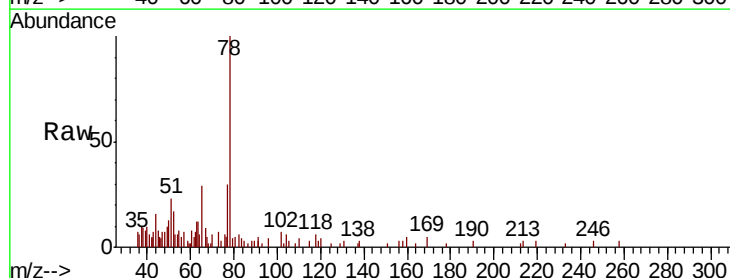


Abundance Ion 83.00 (82.70 to 83.70): VX0
Ion 55.00 (54.70 to 55.70): VX0
Ion 98.00 (97.70 to 98.70): VX0

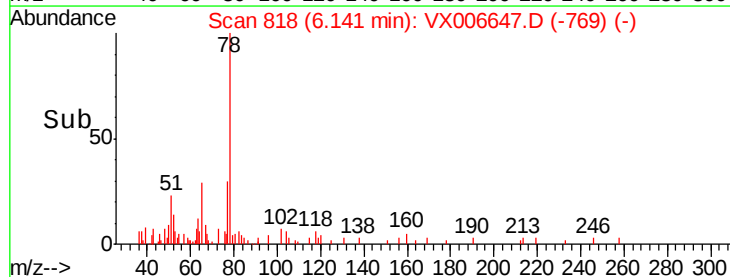
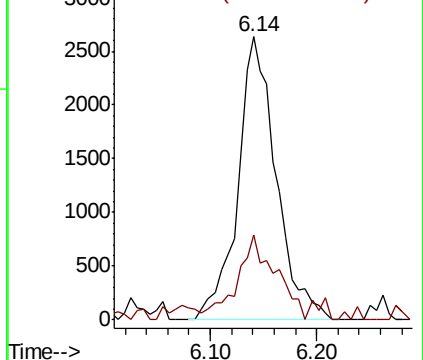


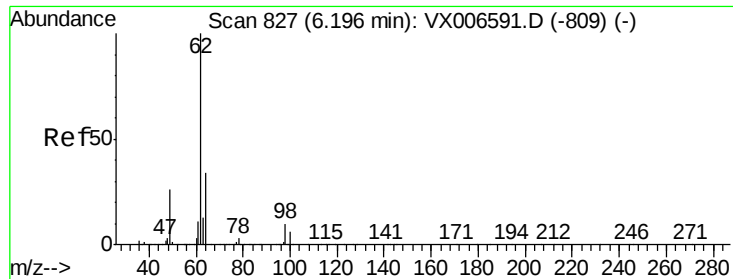
#40
Benzene
Concen: 0.267 ug/l
RT: 6.14 min Scan# 818
Delta R.T. 0.00 min
Lab File: VX006647.D
Acq: 19 Dec 2018 19:51

Tgt Ion: 78 Resp: 6636
Ion Ratio Lower Upper
78 100
77 30.1 19.2 28.8#



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





#42

1,2-Dichloroethane

Concen: 1.409 ug/l

RT: 6.20 min Scan# 827

Delta R.T. 0.00 min

Lab File: VX006647.D

Acq: 19 Dec 2018 19:51

Instrument :

MSVOA_X

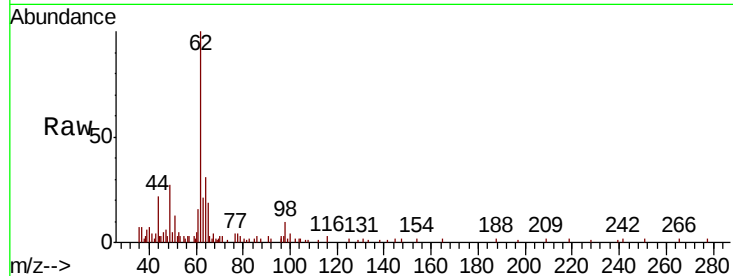
ClientSampleId :

Tot Ion: 62 Resp: 11947

Ion Ratio Lower Upper

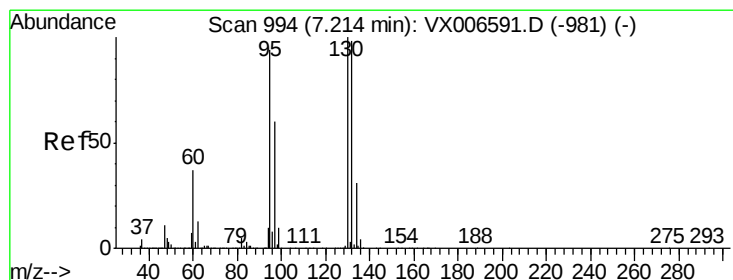
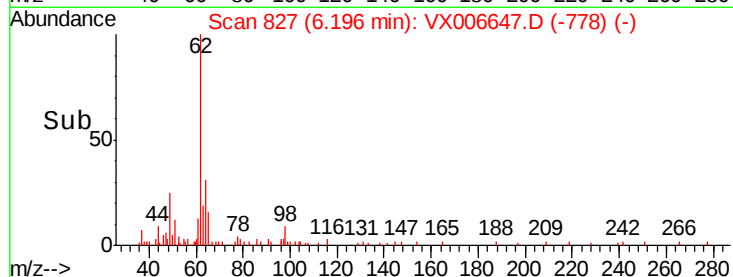
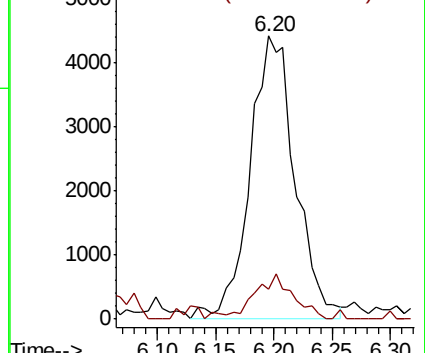
62 100

98 13.2 0.0 20.2



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



#44

Trichloroethene

Concen: 0.651 ug/l

RT: 7.22 min Scan# 995

Delta R.T. 0.01 min

Lab File: VX006647.D

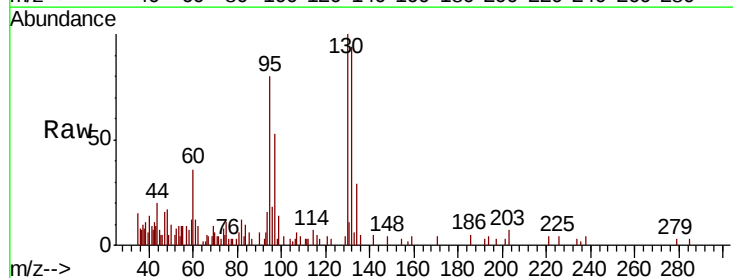
Acq: 19 Dec 2018 19:51

Tgt Ion:130 Resp: 4905

Ion Ratio Lower Upper

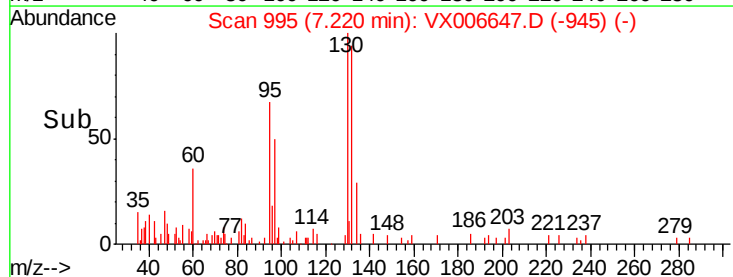
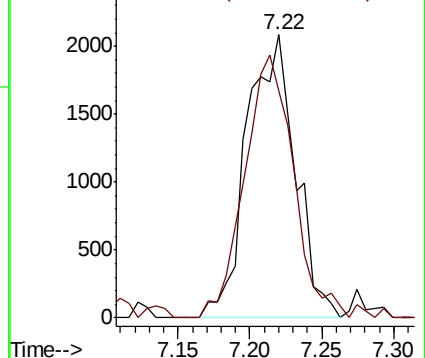
130 100

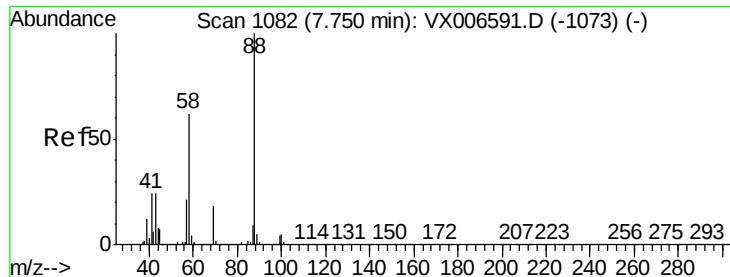
95 77.4 0.0 187.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0





#49

1,4-Dioxane

Concen: 239.470 ug/l

RT: 7.75 min Scan# 1082

Delta R.T. 0.00 min

Lab File: VX006647.D

Acq: 19 Dec 2018 19:51

Instrument :

MSVOA_X

ClientSampleId :

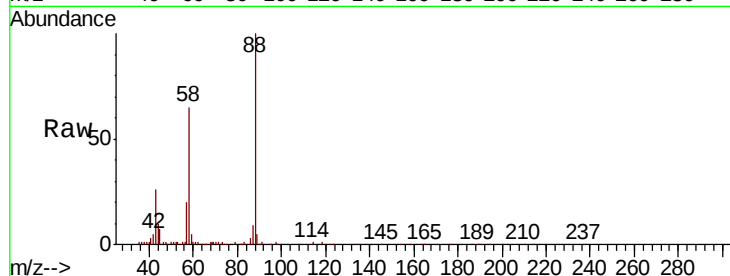
Tot Ion: 88 Resp: 43915

Ion Ratio Lower Upper

88 100

43 24.0 22.2 33.4

58 67.1 51.0 76.4

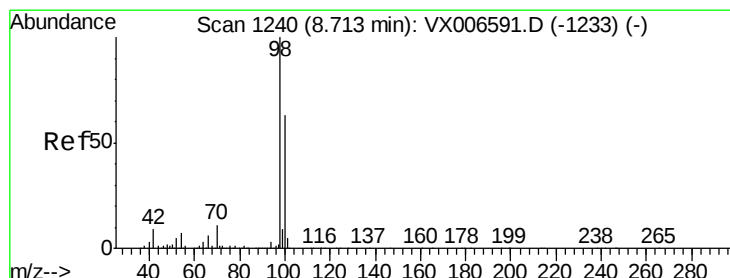
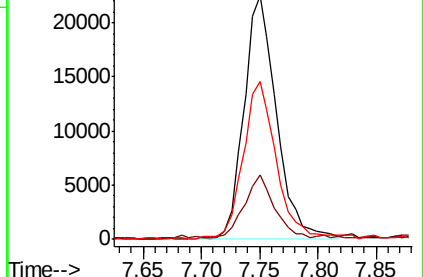
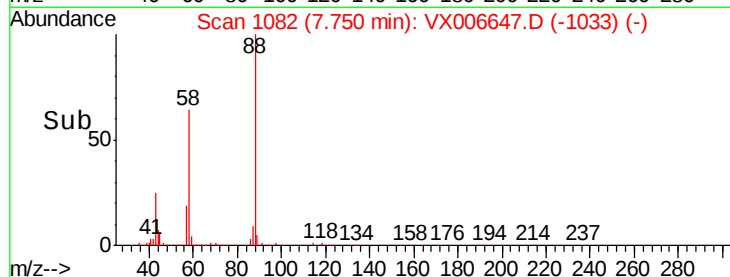


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

7.75



#50

Toluene-d8

Concen: 49.653 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX006647.D

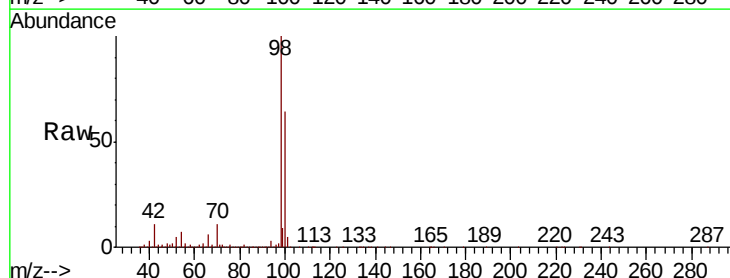
Acq: 19 Dec 2018 19:51

Tgt Ion: 98 Resp: 1170060

Ion Ratio Lower Upper

98 100

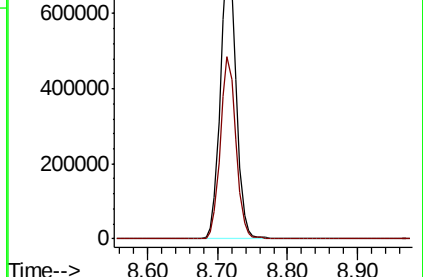
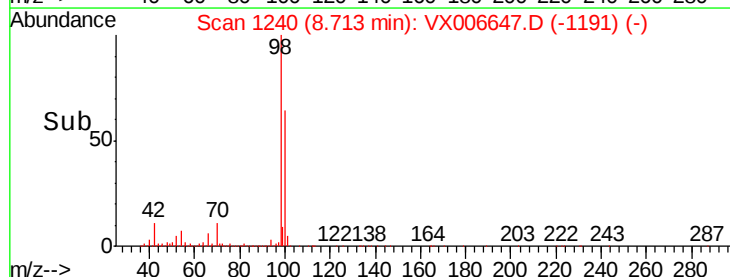
100 64.1 52.0 78.0

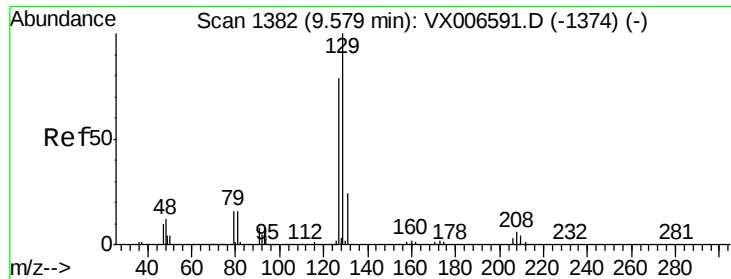


Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

8.71

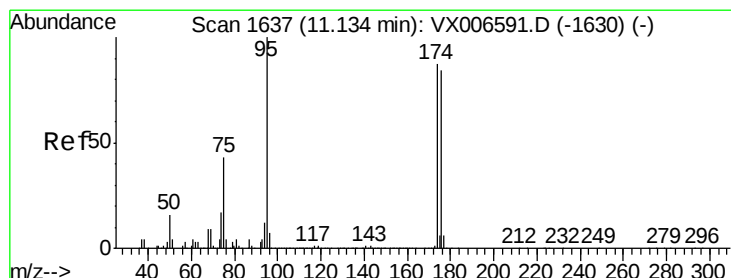
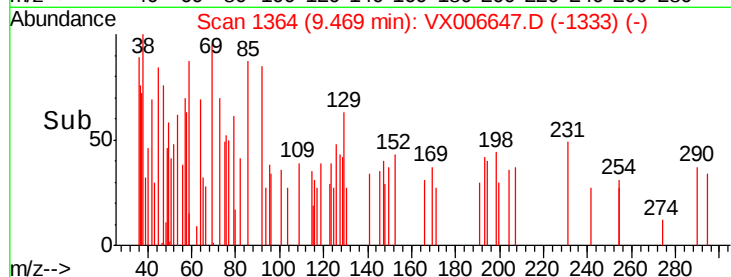
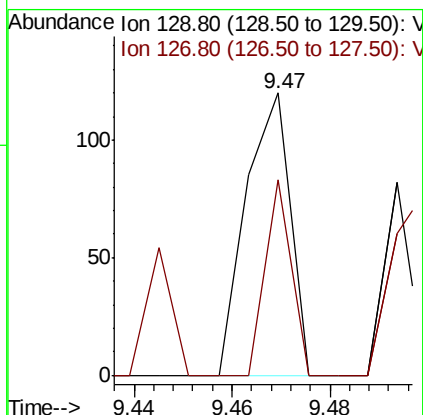
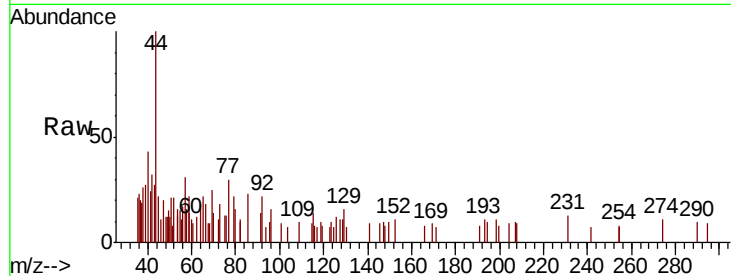




#60
 Dibromochloromethane
 Concen: 2.335 ug/l
 RT: 9.47 min Scan# 1364
 Delta R.T. -0.11 min
 Lab File: VX006647.D
 Acq: 19 Dec 2018 19:51

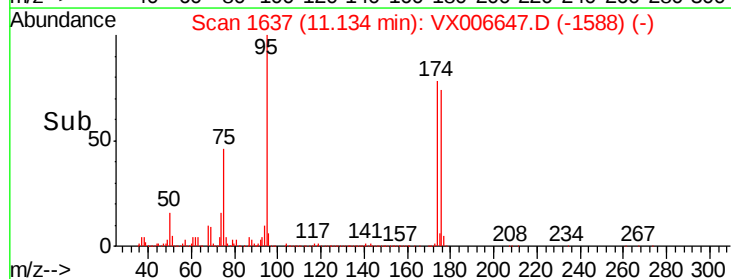
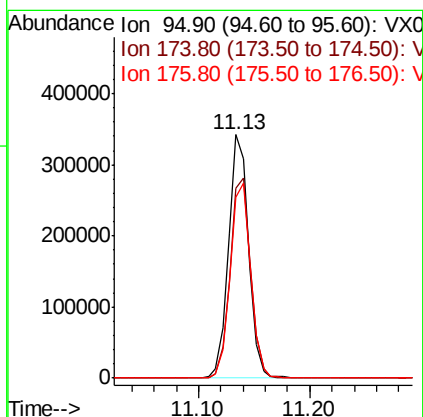
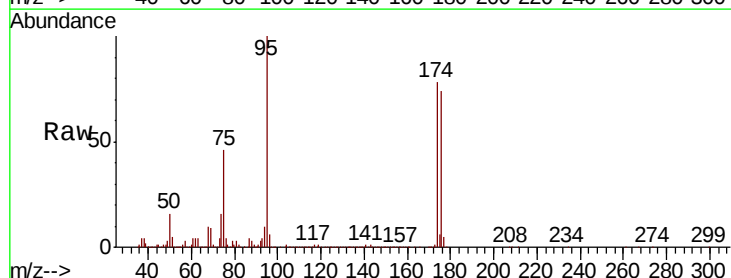
Instrument :
 MSVOA_X
 ClientSampleId :

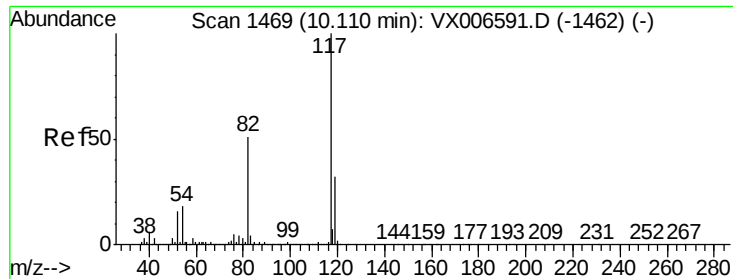
Tot Ion:129 Resp: 75
 Ion Ratio Lower Upper
 129 100
 127 40.0 39.3 117.8



#62
 4-Bromofluorobenzene
 Concen: 49.165 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.00 min
 Lab File: VX006647.D
 Acq: 19 Dec 2018 19:51

Tgt Ion: 95 Resp: 424307
 Ion Ratio Lower Upper
 95 100
 174 84.6 0.0 182.2
 176 82.2 0.0 178.8

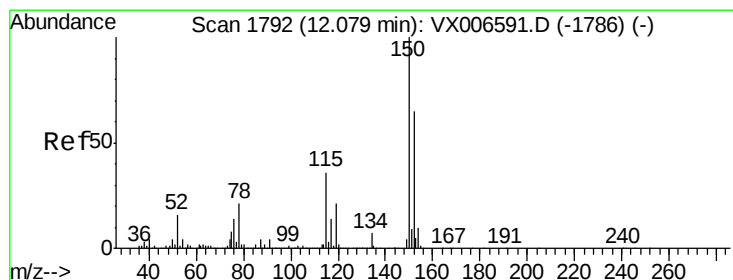
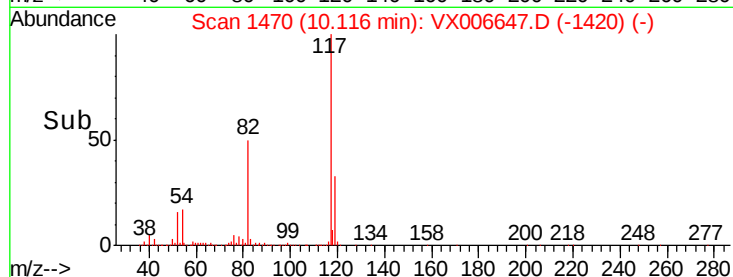
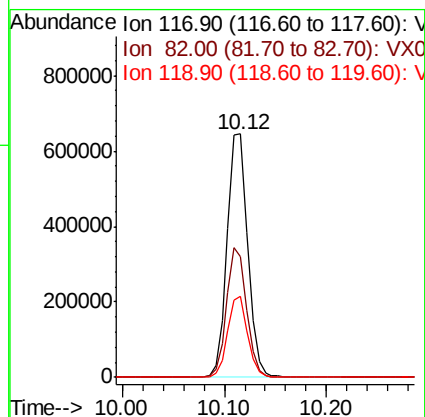
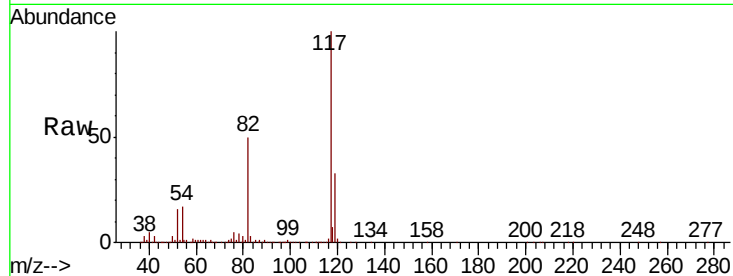




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.01 min
Lab File: VX006647.D
Acq: 19 Dec 2018 19:51

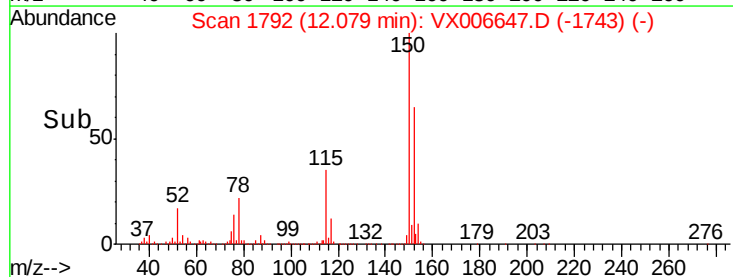
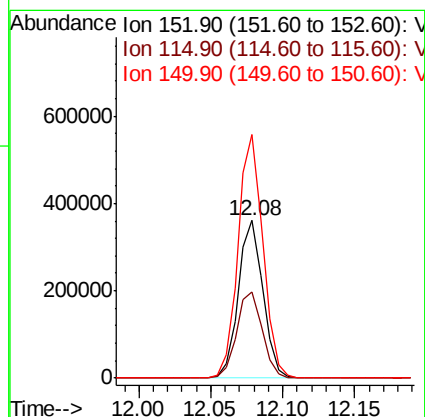
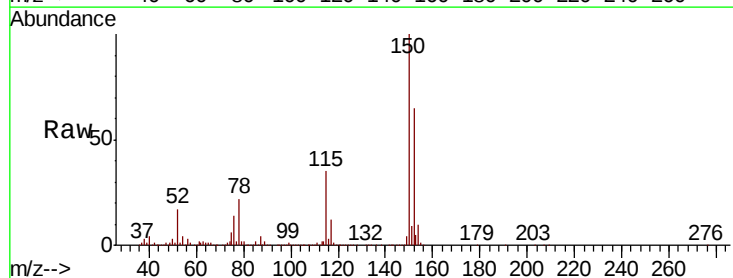
Instrument :
MSVOA_X
ClientSampleId :

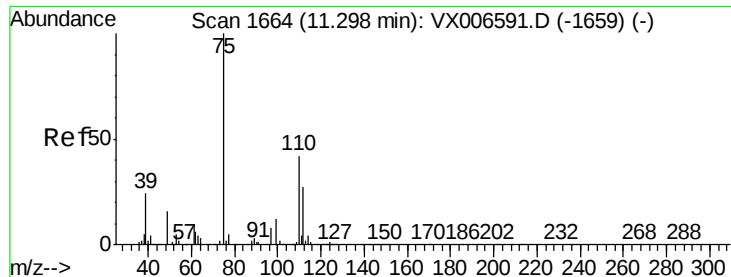
Tot Ion:117 Resp: 905849
Ion Ratio Lower Upper
117 100
82 49.7 41.0 61.6
119 33.4 25.4 38.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX006647.D
Acq: 19 Dec 2018 19:51

Tgt Ion:152 Resp: 431027
Ion Ratio Lower Upper
152 100
115 57.0 39.1 117.2
150 155.9 0.0 344.8





#76

1,2,3-Trichloropropane

Concen: 24.661 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX006647.D

Acq: 19 Dec 2018 19:51

Instrument :

MSVOA_X

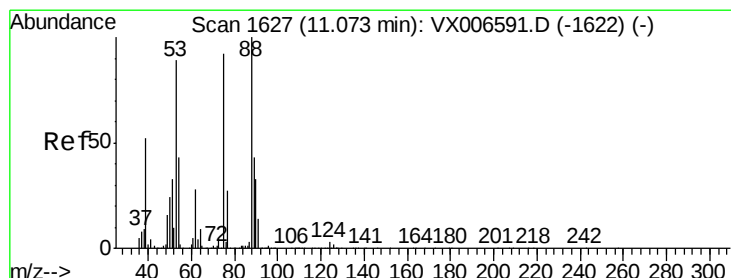
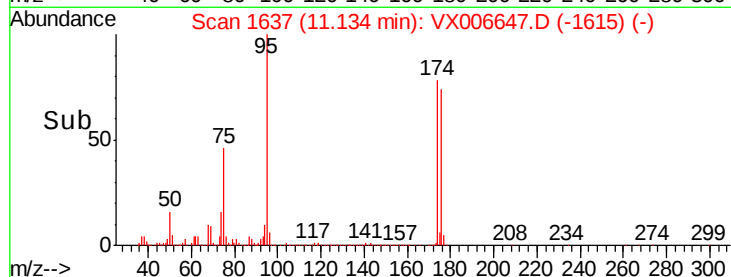
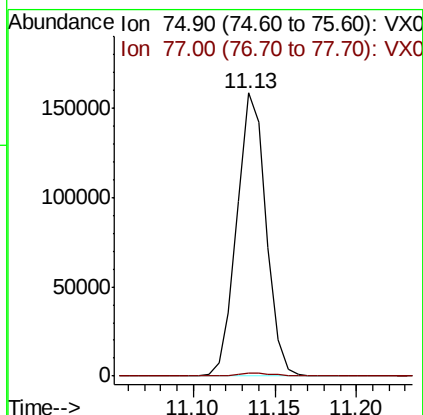
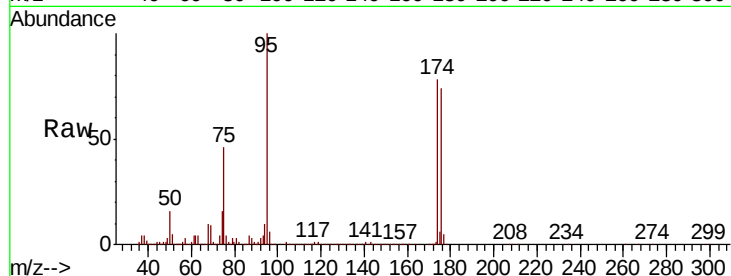
ClientSampleId :

Tot Ion: 75 Resp: 197545

Ion Ratio Lower Upper

75 100

77 1.4 18.5 55.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 72.931 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX006647.D

Acq: 19 Dec 2018 19:51

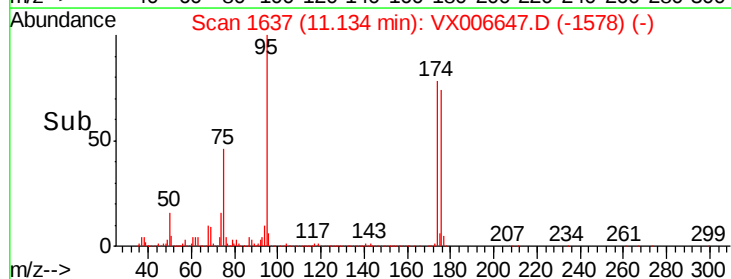
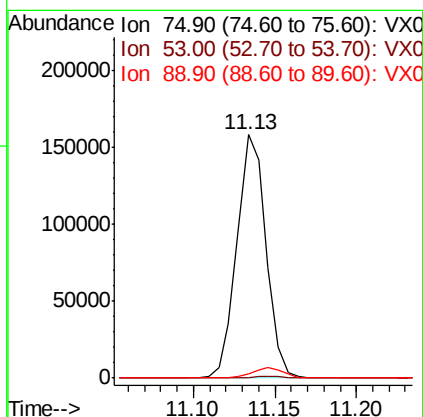
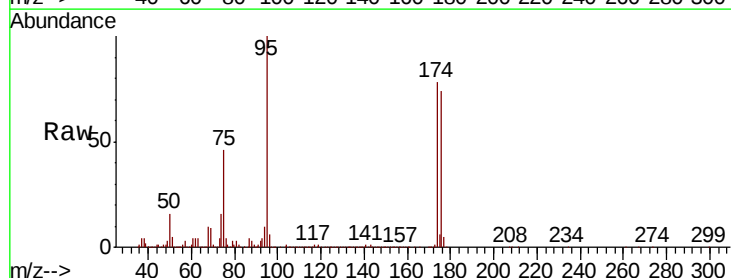
Tgt Ion: 75 Resp: 197545

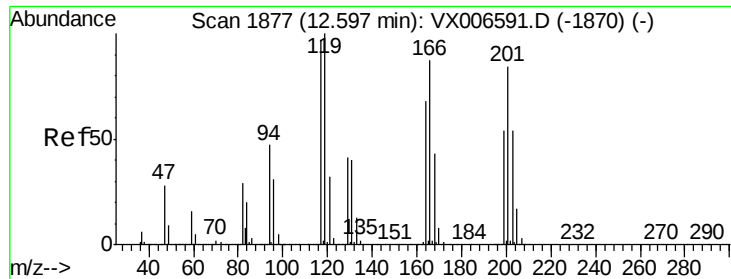
Ion Ratio Lower Upper

75 100

53 0.9 79.7 119.5#

89 4.8 38.0 57.0#





#90

Hexachloroethane

Concen: 3.319 ug/l

RT: 12.49 min Scan# 1860

Delta R.T. -0.10 min

Lab File: VX006647.D

Acq: 19 Dec 2018 19:51

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion:117 Resp: 114

Ion Ratio Lower Upper

117 100

201 86.0 42.9 128.7

