

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX122018\
 Data File : VX006697.D
 Acq On : 21 Dec 2018 01:34
 Operator : JC/MD
 Sample : J6514-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Dec 21 03:38:47 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

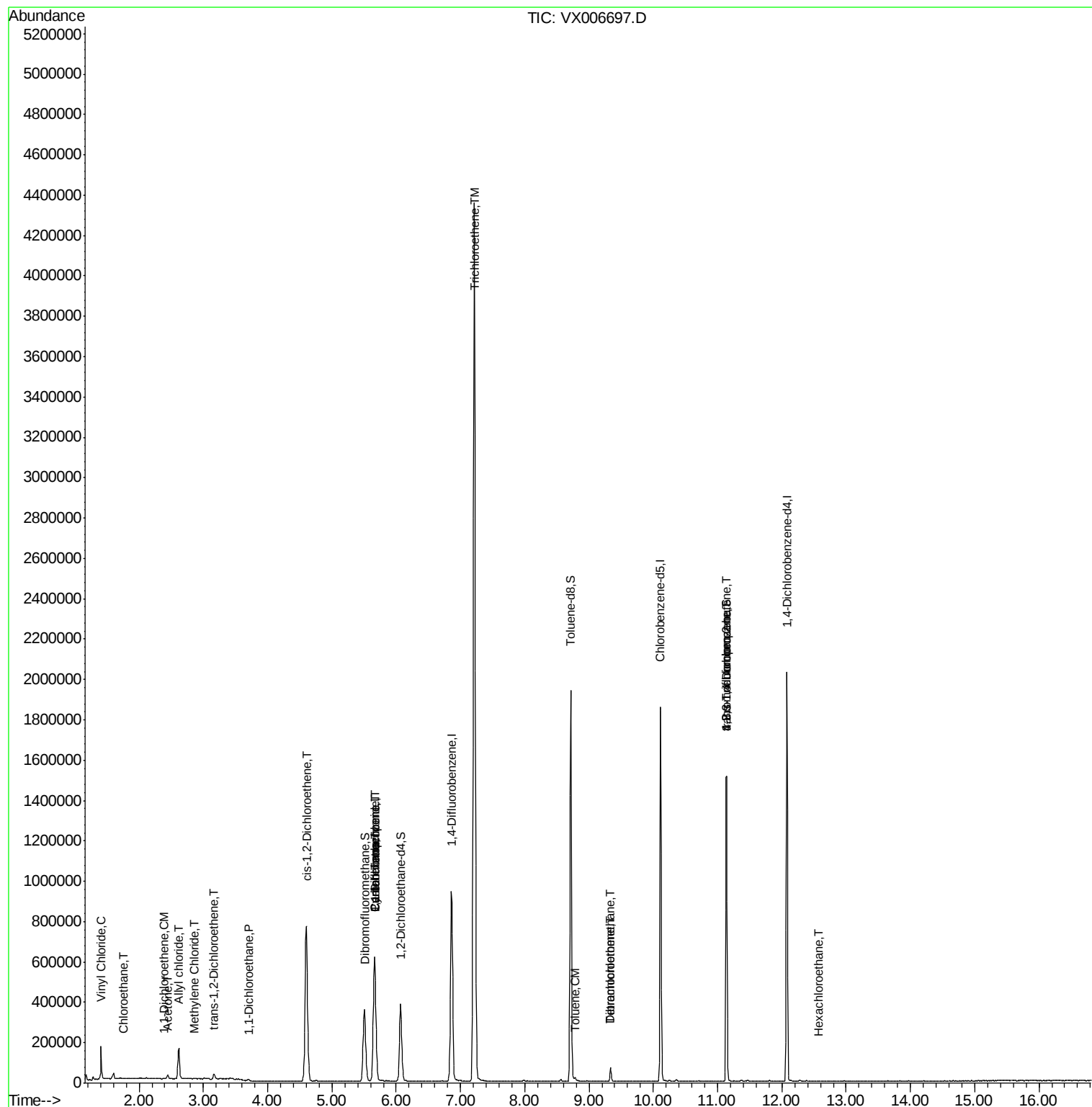
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	647504	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	1016127	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	924337	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	419734	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.07	65	352012	50.44	ug/l	0.00
Spiked Amount 50.000			Recovery	=	100.88%	
35) Dibromofluoromethane	5.51	113	305779	47.59	ug/l	0.00
Spiked Amount 50.000			Recovery	=	95.18%	
50) Toluene-d8	8.71	98	1188995	49.08	ug/l	0.00
Spiked Amount 50.000			Recovery	=	98.16%	
62) 4-Bromofluorobenzene	11.13	95	418444	47.16	ug/l	0.00
Spiked Amount 50.000			Recovery	=	94.32%	
Target Compounds						
					Qvalue	
4) Vinyl Chloride	1.41	62	96751	14.516	ug/l	96
5) Bromomethane	1.65	94	338	Below Cal	#	76
6) Chloroethane	1.74	64	1211	0.262	ug/l #	42
12) 1,1-Dichloroethene	2.38	96	1685	0.291	ug/l	93
14) Allyl chloride	2.62	41	13397	1.376	ug/l #	53
16) Acetone	2.45	43	21473	6.697	ug/l	95
20) Methylene Chloride	2.87	84	1590	0.240	ug/l #	56
21) trans-1,2-Dichloroethene	3.17	96	10337	1.613	ug/l	95
24) 1,1-Dichloroethane	3.70	63	7677	0.722	ug/l	98
27) cis-1,2-Dichloroethene	4.60	96	524795	74.204	ug/l	92
28) Bromochloromethane	5.02	49	216	Below Cal	#	52
31) Cyclohexane	5.66	56	11228	1.162	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	41663	4.951	ug/l #	48
38) Carbon Tetrachloride	5.66	117	59738	7.304	ug/l #	13
44) Trichloroethene	7.21	130	1746219	225.531	ug/l	98
49) 1,4-Dioxane	7.74	88	143	Below Cal	#	1
52) Toluene	8.78	92	5262	0.318	ug/l	98
60) Dibromochloromethane	9.34	129	11248	3.840	ug/l #	11
64) Tetrachloroethene	9.34	164	13612	1.860	ug/l	93
76) 1,2,3-Trichloropropane	11.13	75	194201	24.896	ug/l #	40
81) trans-1,4-Dichloro-2-buten	11.13	75	194201	73.585	ug/l #	10
90) Hexachloroethane	12.58	117	55	3.306	ug/l	92

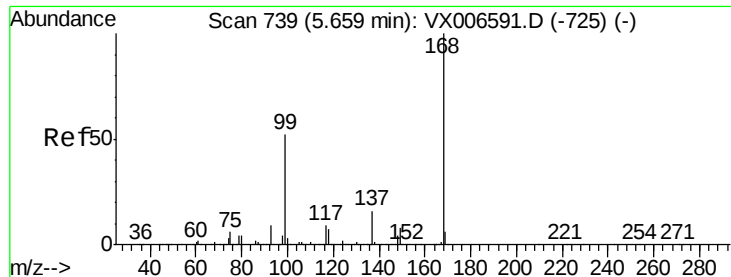
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Dec 19 15:20:58 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX006697.D

Acq: 21 Dec 2018 01:34

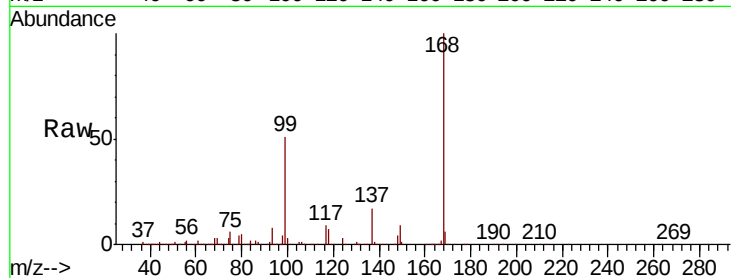
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 647504

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

5.66

250000

200000

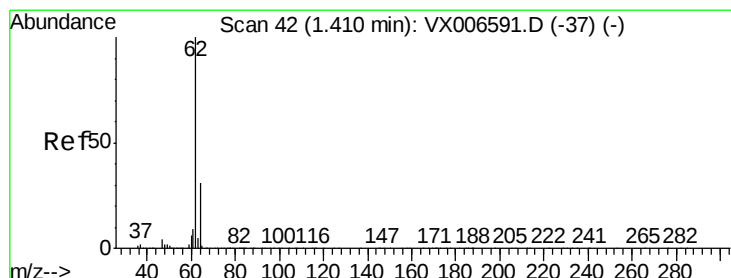
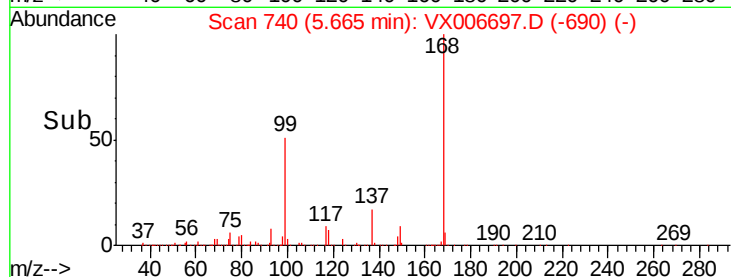
150000

100000

50000

0

Time--> 5.50 5.60 5.70 5.80 5.90



#4

Vinyl Chloride

Concen: 14.516 ug/l

RT: 1.41 min Scan# 42

Delta R.T. -0.00 min

Lab File: VX006697.D

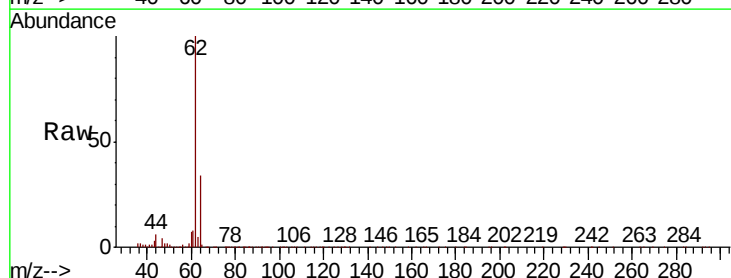
Acq: 21 Dec 2018 01:34

Tgt Ion: 62 Resp: 96751

Ion Ratio Lower Upper

62 100

64 33.8 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

100000

80000

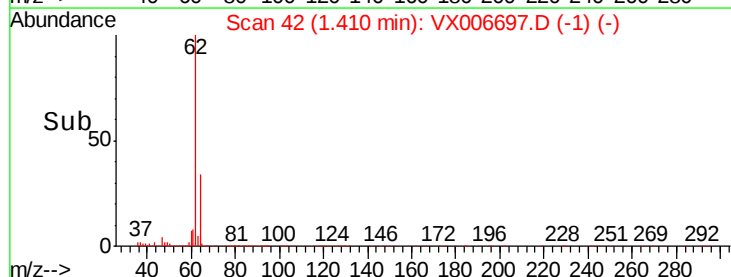
60000

40000

20000

0

Time--> 1.35 1.40 1.45 1.50





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX006697.D

Acq: 21 Dec 2018 01:34

Instrument :

MSVOA_X

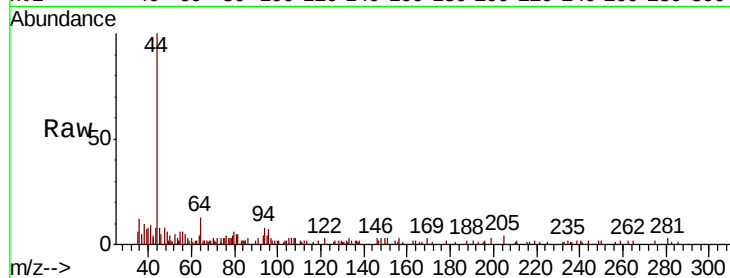
ClientSampled :

Tot Ion: 94 Resp: 338

Ion Ratio Lower Upper

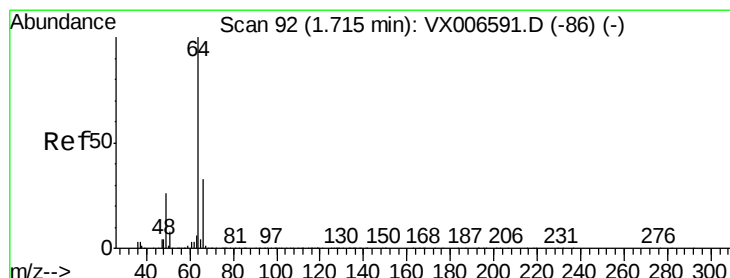
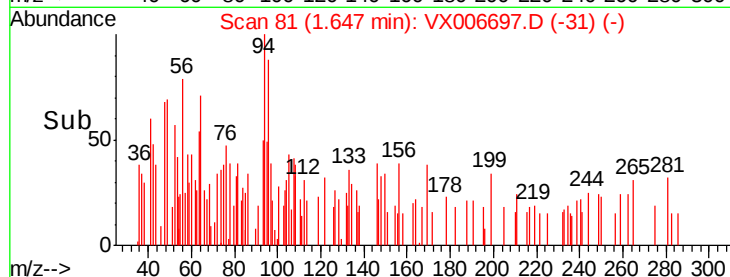
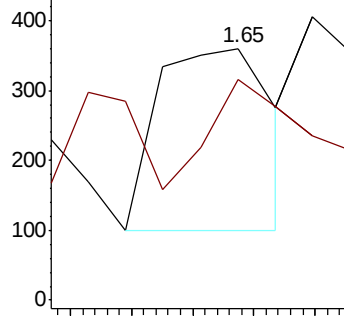
94 100

96 68.6 73.4 110.2#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: 0.262 ug/l

RT: 1.74 min Scan# 97

Delta R.T. 0.03 min

Lab File: VX006697.D

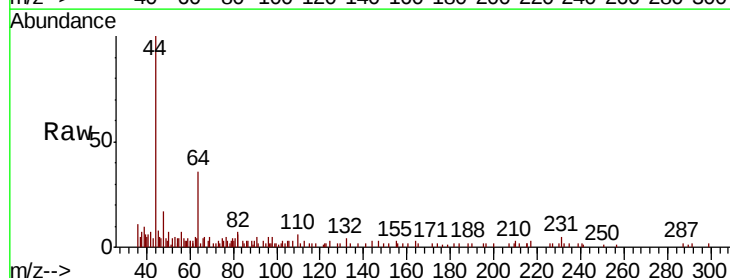
Acq: 21 Dec 2018 01:34

Tgt Ion: 64 Resp: 1211

Ion Ratio Lower Upper

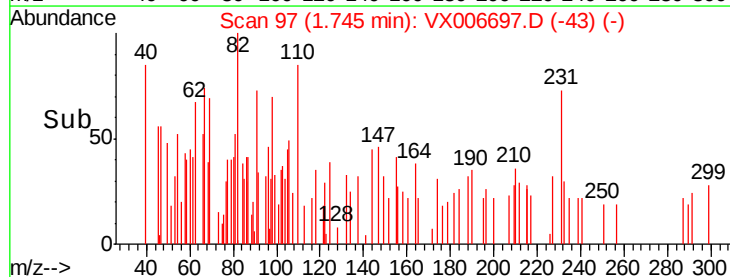
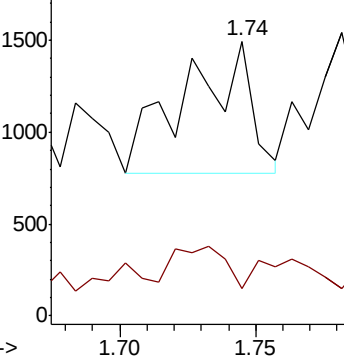
64 100

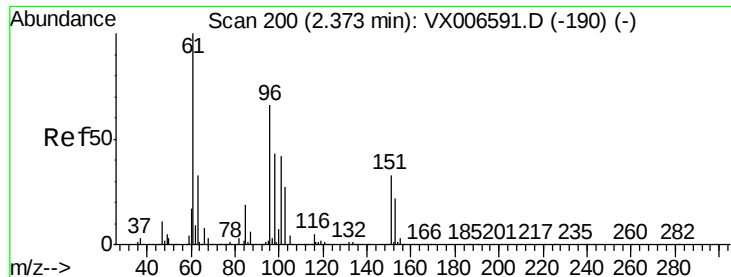
66 0.0 26.4 39.6#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0





#12

1,1-Dichloroethene

Concen: 0.291 ug/l

RT: 2.38 min Scan# 201

Delta R.T. 0.01 min

Lab File: VX006697.D

Acq: 21 Dec 2018 01:34

Instrument :

MSVOA_X

ClientSampleId :

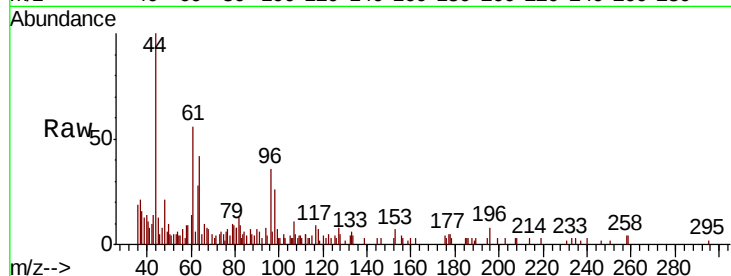
Tot Ion: 96 Resp: 1685

Ion Ratio Lower Upper

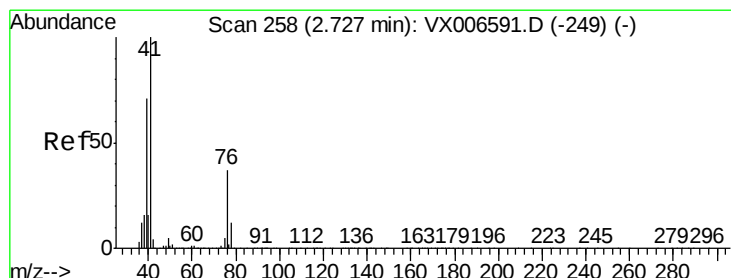
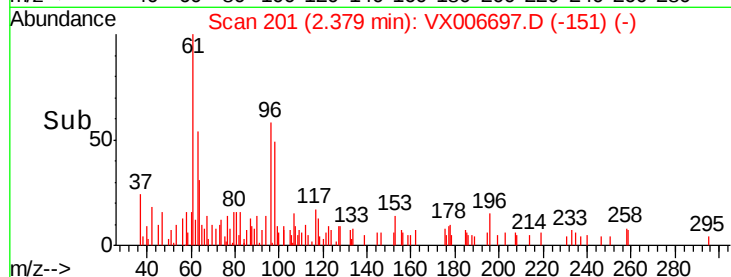
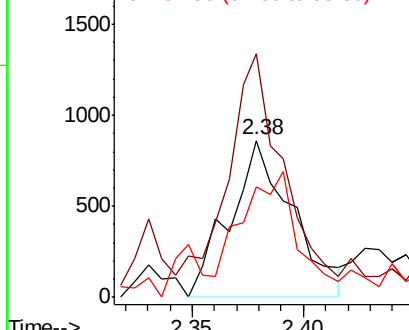
96 100

61 141.9 121.4 182.2

98 60.4 51.9 77.9



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



#14

Allyl chloride

Concen: 1.376 ug/l

RT: 2.62 min Scan# 240

Delta R.T. -0.11 min

Lab File: VX006697.D

Acq: 21 Dec 2018 01:34

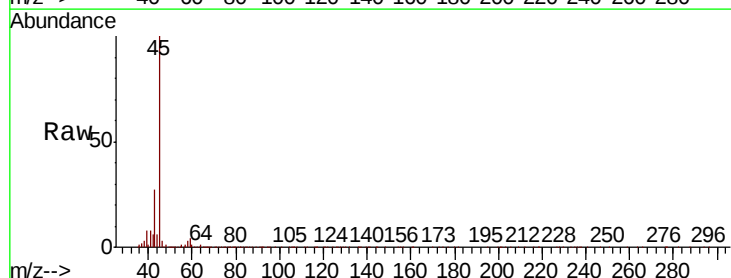
Tgt Ion: 41 Resp: 13397

Ion Ratio Lower Upper

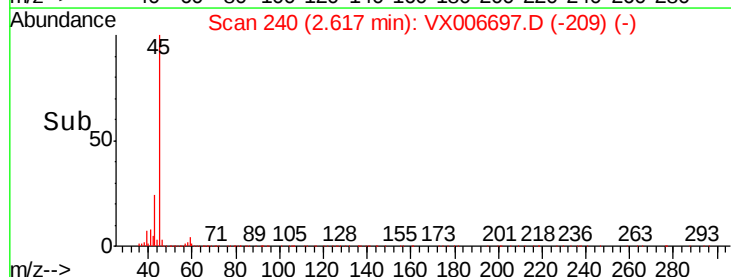
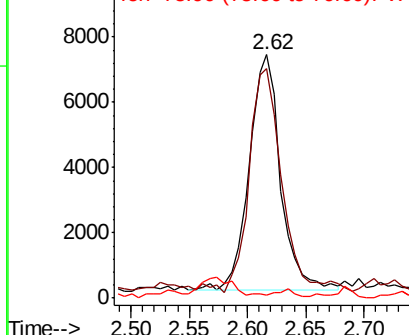
41 100

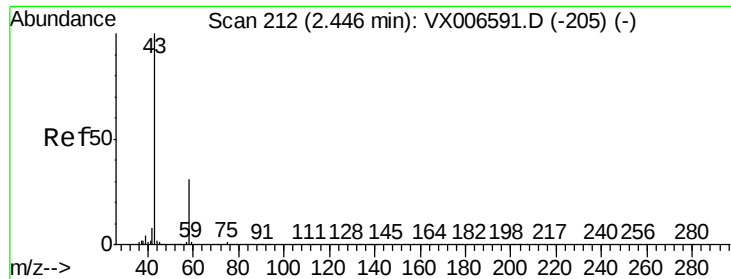
39 101.2 53.6 80.4#

76 1.8 27.4 41.2#



Abundance Ion 41.00 (40.70 to 41.70): VX0
Ion 39.00 (38.70 to 39.70): VX0
Ion 75.90 (75.60 to 76.60): VX0

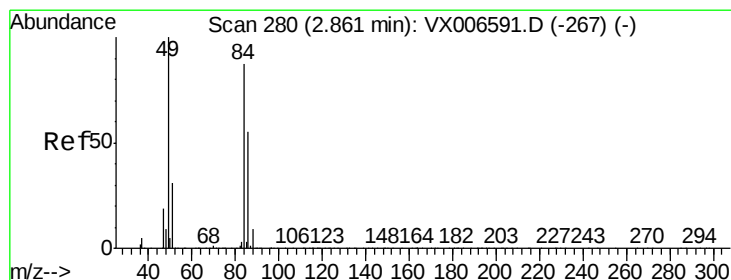
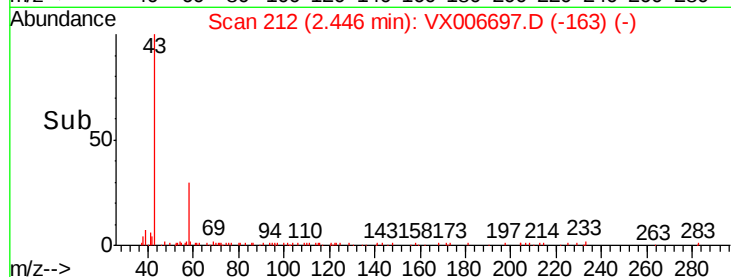
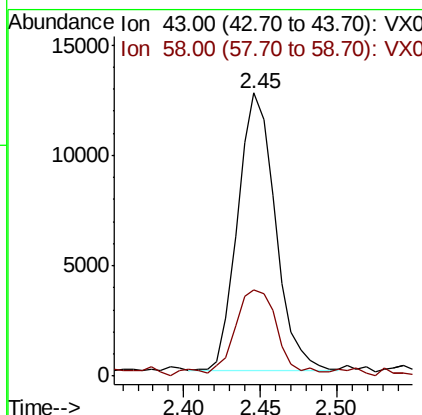
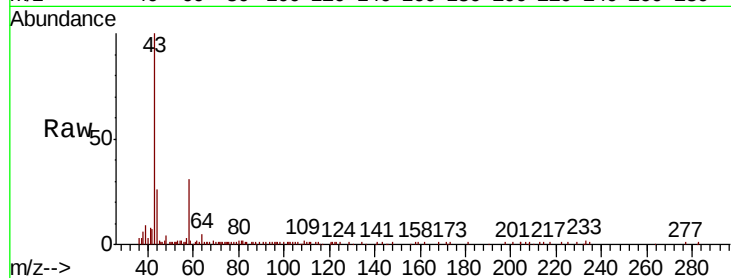




#16
Acetone
Concen: 6.697 ug/l
RT: 2.45 min Scan# 212
Delta R.T. -0.00 min
Lab File: VX006697.D
Acq: 21 Dec 2018 01:34

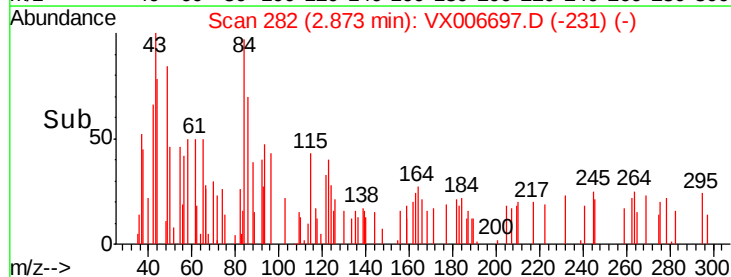
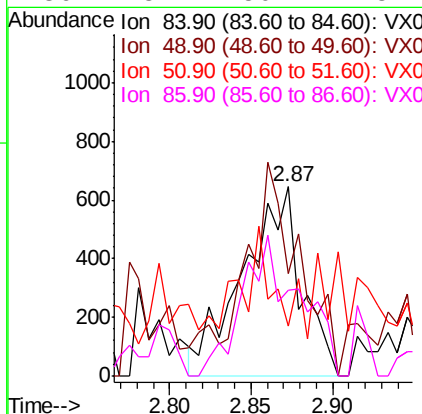
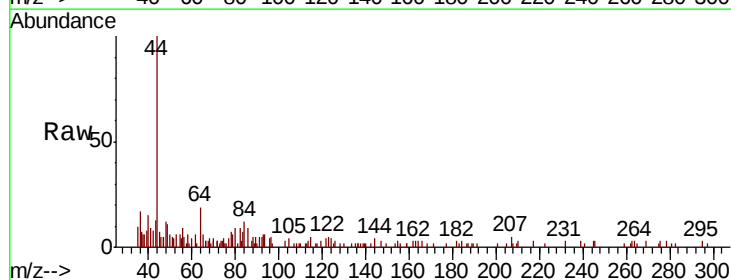
Instrument :
MSVOA_X
ClientSampleId :

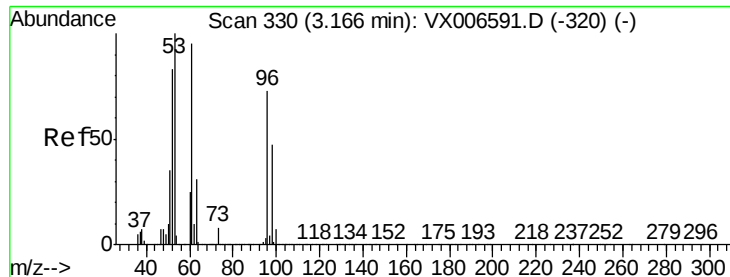
Tot Ion: 43 Resp: 21473
Ion Ratio Lower Upper
43 100
58 28.8 25.0 37.6



#20
Methylene Chloride
Concen: 0.240 ug/l
RT: 2.87 min Scan# 282
Delta R.T. 0.01 min
Lab File: VX006697.D
Acq: 21 Dec 2018 01:34

Tgt Ion: 84 Resp: 1590
Ion Ratio Lower Upper
84 100
49 54.5 91.8 137.6#
51 8.2 28.5 42.7#
86 45.2 50.2 75.2#





#21

trans-1,2-Dichloroethene

Concen: 1.613 ug/l

RT: 3.17 min Scan# 330

Delta R.T. -0.00 min

Lab File: VX006697.D

Acq: 21 Dec 2018 01:34

Instrument :

MSVOA_X

ClientSampleId :

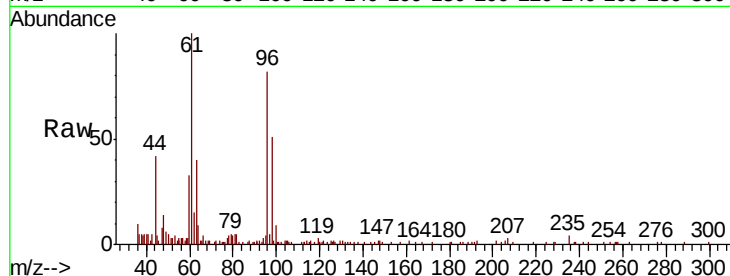
Tot Ion: 96 Resp: 10337

Ion Ratio Lower Upper

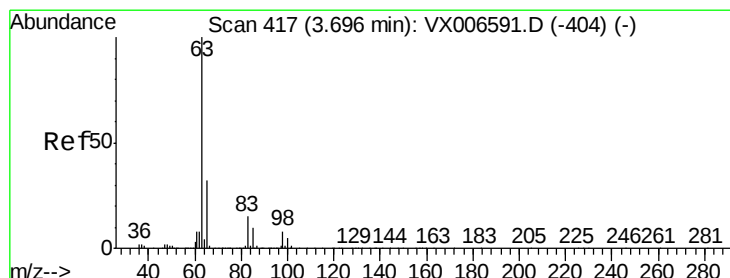
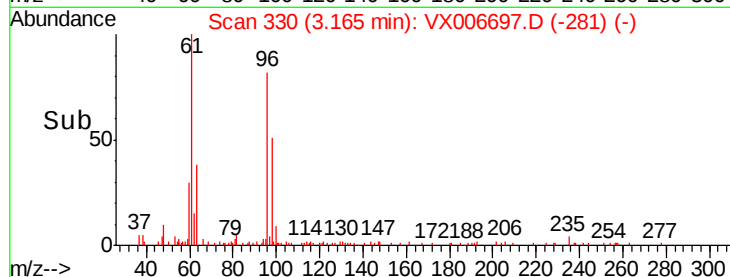
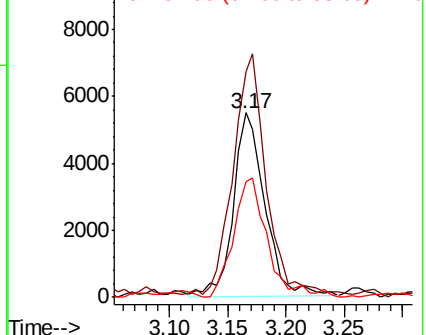
96 100

61 120.9 103.7 155.5

98 63.6 51.0 76.6



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



#24

1,1-Dichloroethane

Concen: 0.722 ug/l

RT: 3.70 min Scan# 417

Delta R.T. -0.00 min

Lab File: VX006697.D

Acq: 21 Dec 2018 01:34

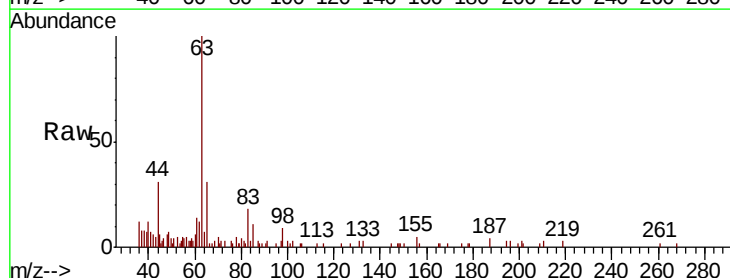
Tgt Ion: 63 Resp: 7677

Ion Ratio Lower Upper

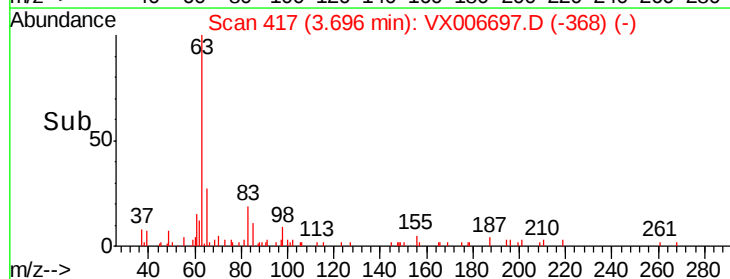
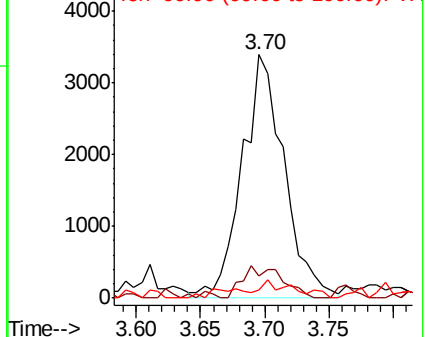
63 100

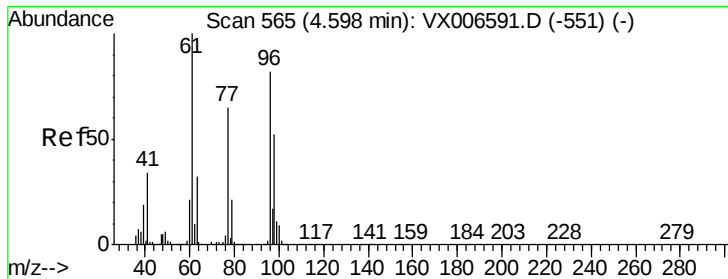
98 7.6 3.9 11.5

100 3.4 2.4 7.2



Abundance Ion 62.90 (62.60 to 63.60): VX0
Ion 97.90 (97.60 to 98.60): VX0
Ion 99.90 (99.60 to 100.60): VX0



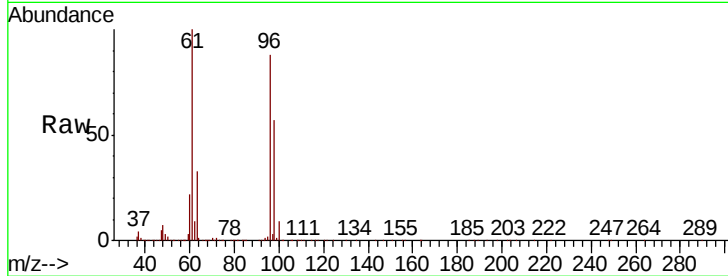


#27

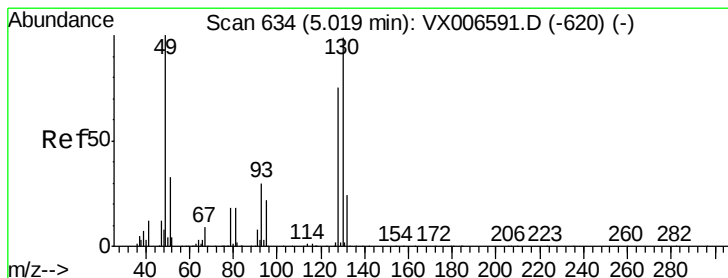
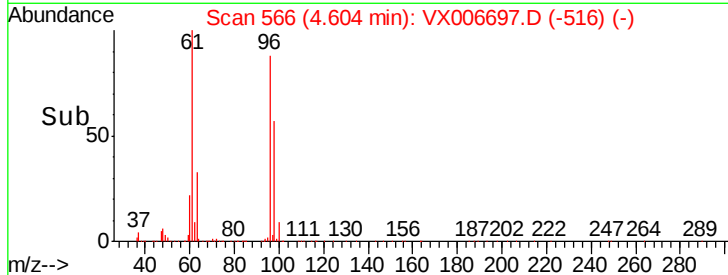
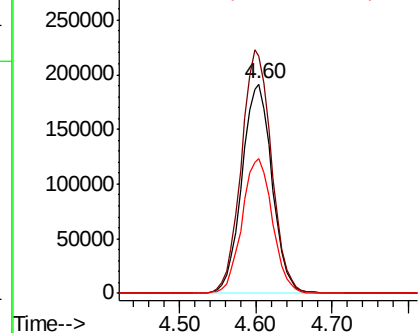
cis-1,2-Dichloroethene
Concen: 74.204 ug/l
RT: 4.60 min Scan# 566
Delta R.T. 0.01 min
Lab File: VX006697.D
Acq: 21 Dec 2018 01:34

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
96	100		
61	116.0	0.0	258.6
98	64.9	0.0	132.0



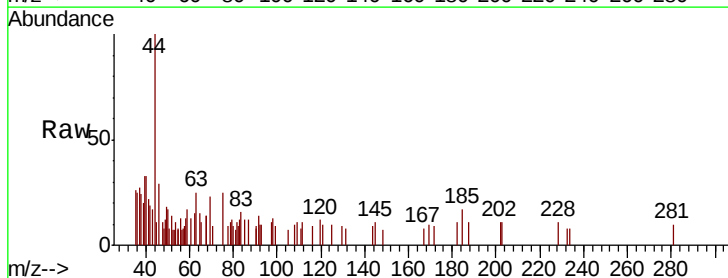
Abundance Ion 95.90 (95.60 to 96.60): VX0
Ion 60.90 (60.60 to 61.60): VX0
Ion 97.90 (97.60 to 98.60): VX0



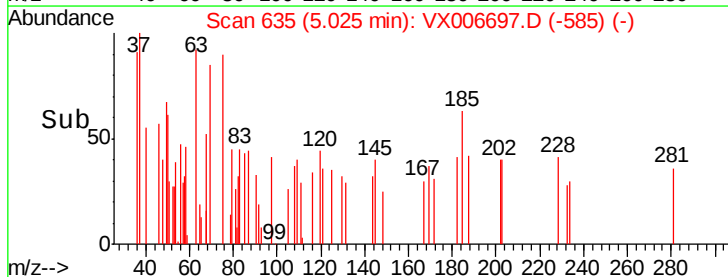
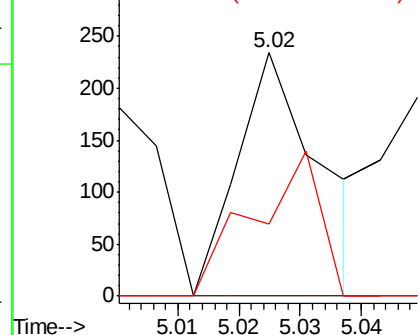
#28

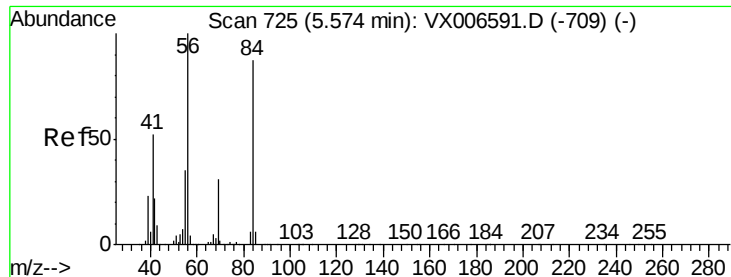
Bromochloromethane
Concen: Below Cal
RT: 5.02 min Scan# 635
Delta R.T. 0.01 min
Lab File: VX006697.D
Acq: 21 Dec 2018 01:34

Tgt Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	5.4
130	49.1	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

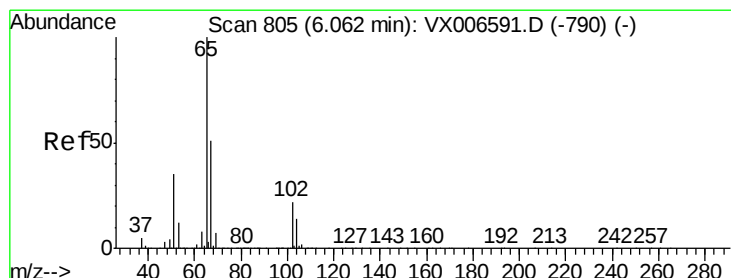
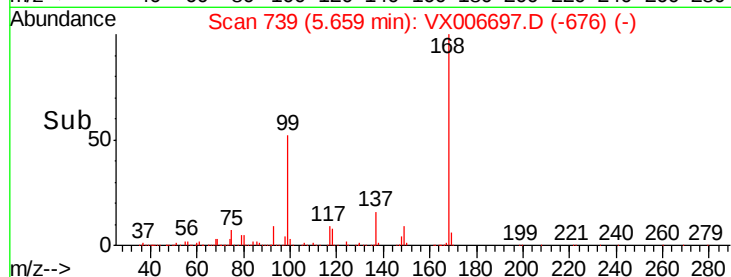
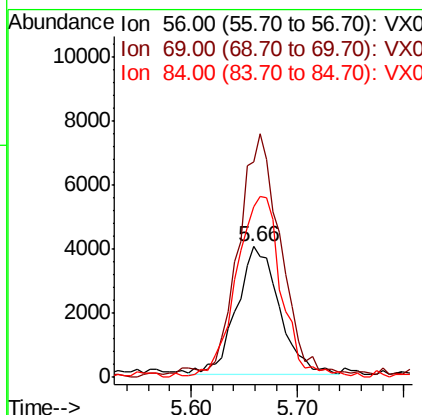
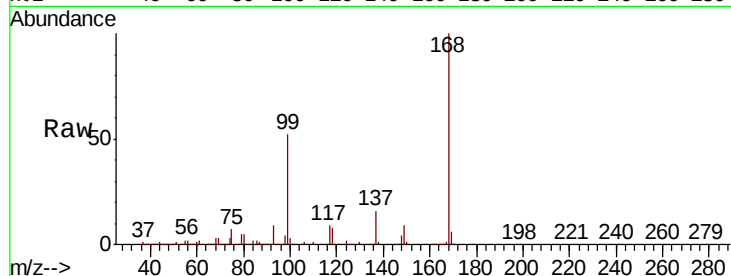




#31
Cyclohexane
Concen: 1.162 ug/l
RT: 5.66 min Scan# 739
Delta R.T. 0.09 min
Lab File: VX006697.D
Acq: 21 Dec 2018 01:34

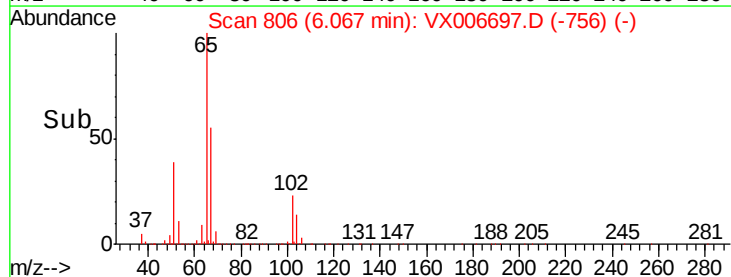
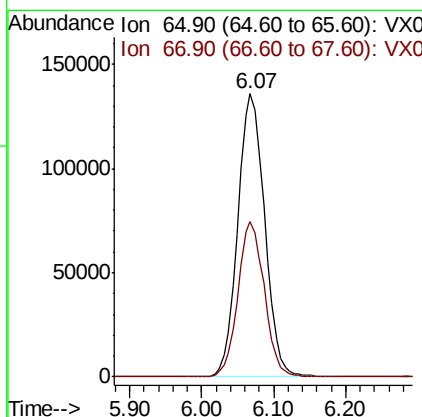
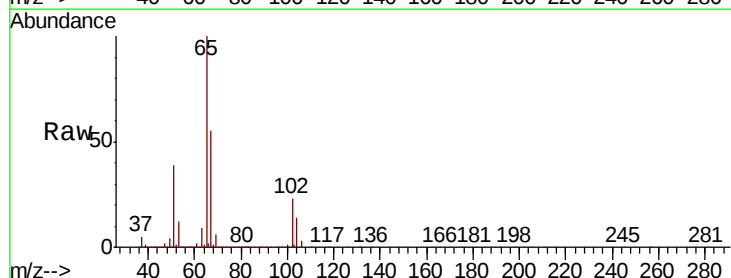
Instrument :
MSVOA_X
ClientSampleId :

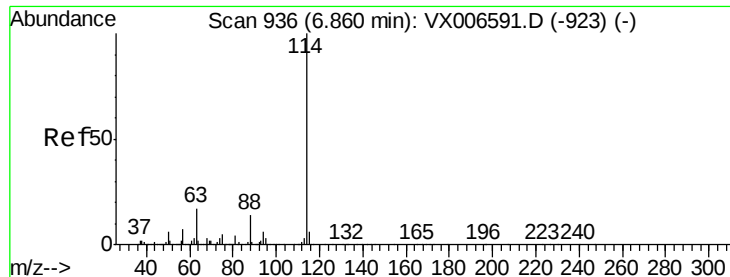
Tot Ion: 56 Resp: 11228
Ion Ratio Lower Upper
56 100
69 166.1 24.4 36.6#
84 132.7 70.0 105.0#



#33
1,2-Dichloroethane-d4
Concen: 50.442 ug/l
RT: 6.07 min Scan# 806
Delta R.T. 0.01 min
Lab File: VX006697.D
Acq: 21 Dec 2018 01:34

Tgt Ion: 65 Resp: 352012
Ion Ratio Lower Upper
65 100
67 53.8 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: VX006697.D

Acq: 21 Dec 2018 01:34

Instrument :

MSVOA_X

ClientSampled :

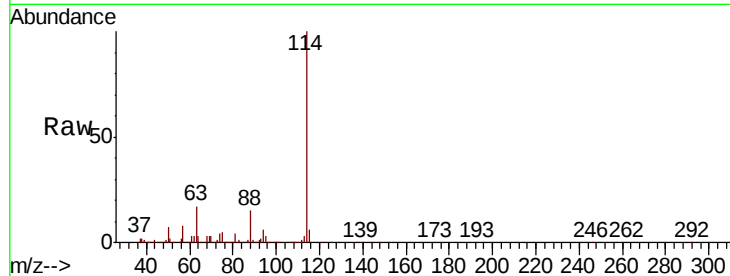
Tot Ion:114 Resp: 1016127

Ion Ratio Lower Upper

114 100

63 17.1 0.0 34.8

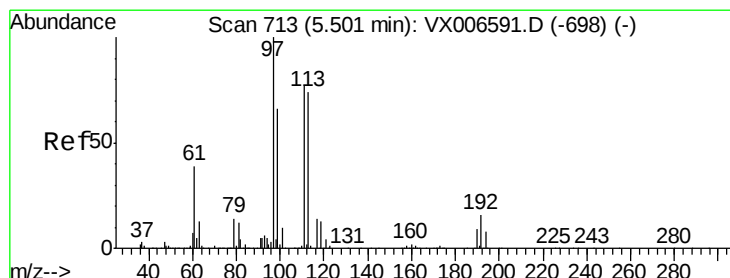
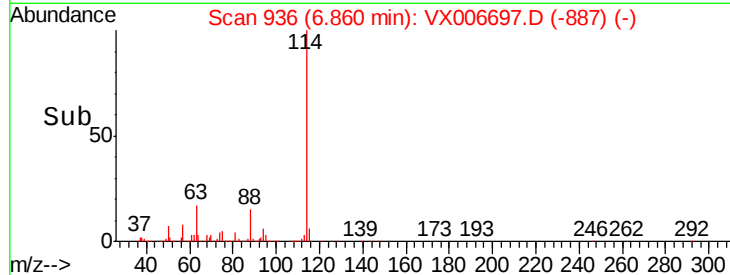
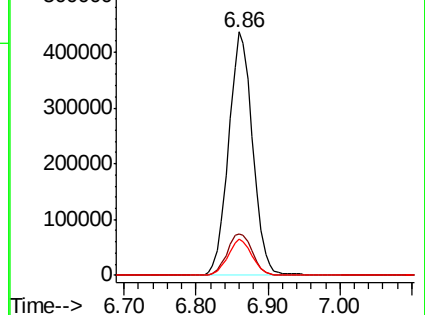
88 15.0 0.0 28.8



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: 47.586 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.01 min

Lab File: VX006697.D

Acq: 21 Dec 2018 01:34

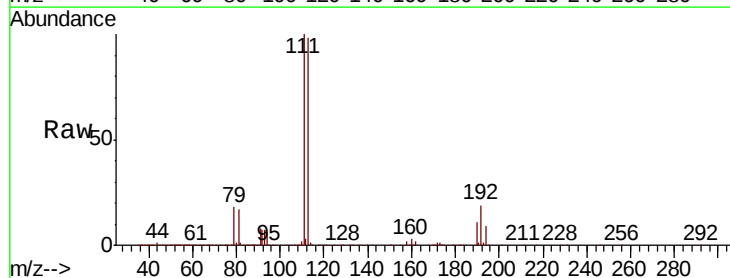
Tgt Ion:113 Resp: 305779

Ion Ratio Lower Upper

113 100

111 102.2 81.6 122.4

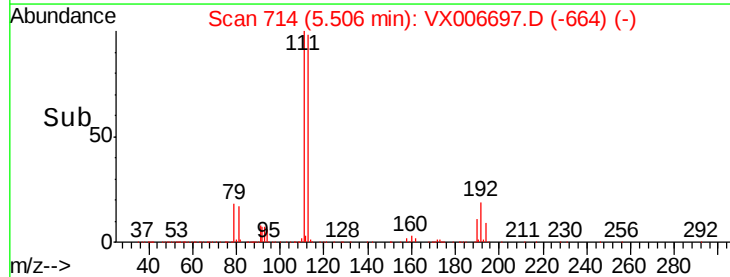
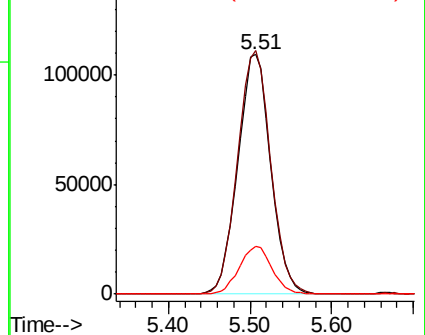
192 20.0 16.7 25.1

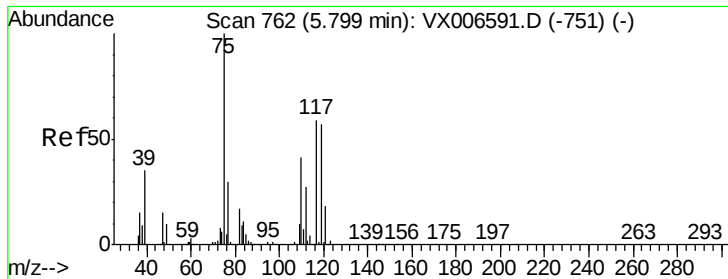


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.951 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX006697.D

Acq: 21 Dec 2018 01:34

Instrument :

MSVOA_X

ClientSampleId :

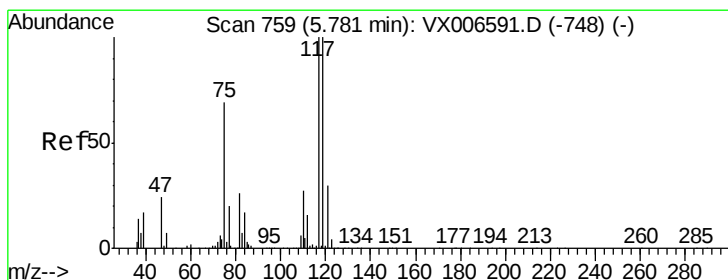
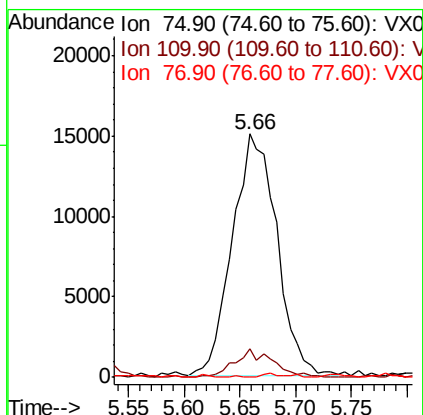
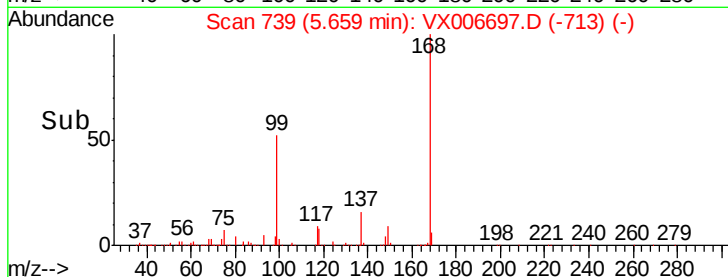
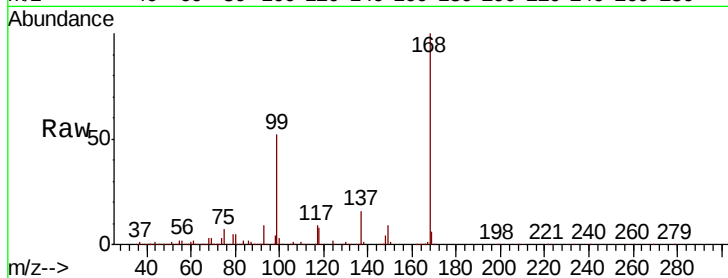
Tot Ion: 75 Resp: 41663

Ion Ratio Lower Upper

75 100

110 10.3 20.2 60.5#

77 0.2 24.8 37.2#



#38

Carbon Tetrachloride

Concen: 7.304 ug/l

RT: 5.66 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX006697.D

Acq: 21 Dec 2018 01:34

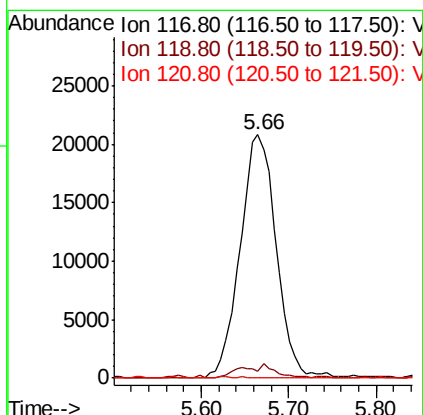
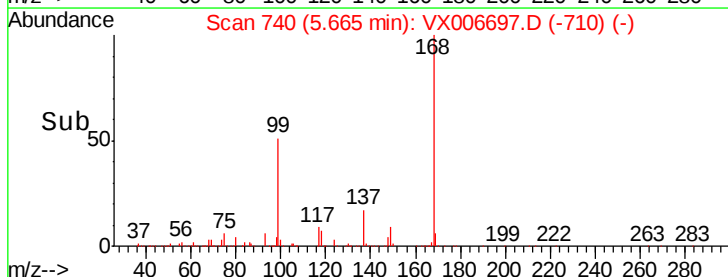
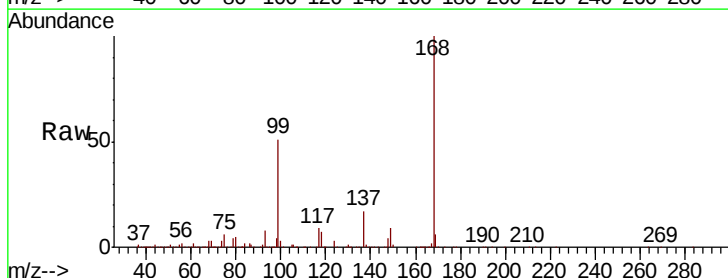
Tgt Ion:117 Resp: 59738

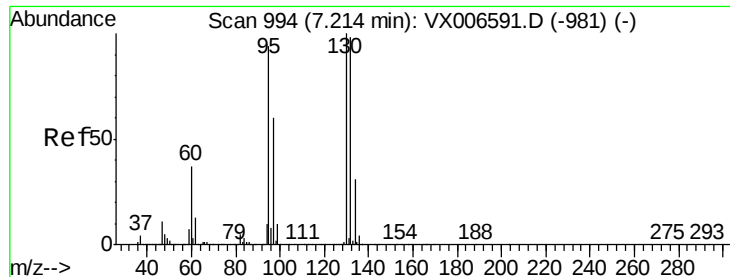
Ion Ratio Lower Upper

117 100

119 2.7 79.4 119.2#

121 0.0 24.0 36.0#





#44

Trichloroethene

Concen: 225.531 ug/l

RT: 7.21 min Scan# 994

Delta R.T. -0.00 min

Lab File: VX006697.D

Acq: 21 Dec 2018 01:34

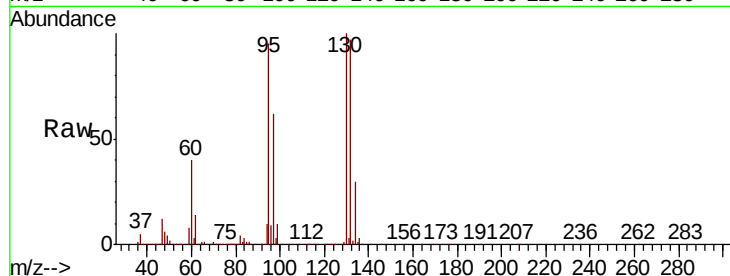
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:130 Resp: 1746219

Ion Ratio Lower Upper

130 100

95 95.4 0.0 187.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.21

800000

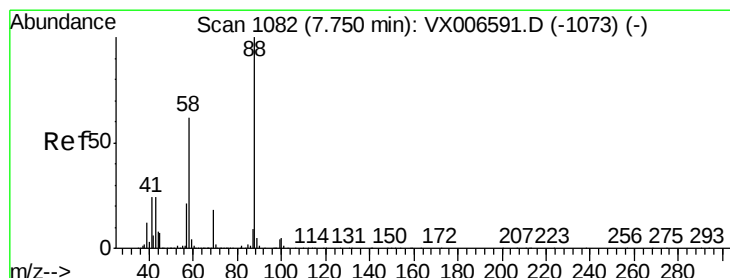
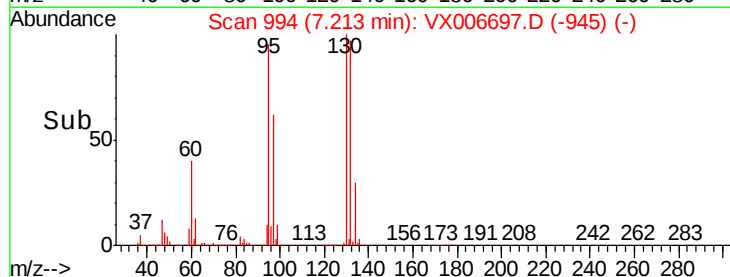
600000

400000

200000

0

Time-->



#49

1,4-Dioxane

Concen: Below Cal

RT: 7.74 min Scan# 1081

Delta R.T. -0.01 min

Lab File: VX006697.D

Acq: 21 Dec 2018 01:34

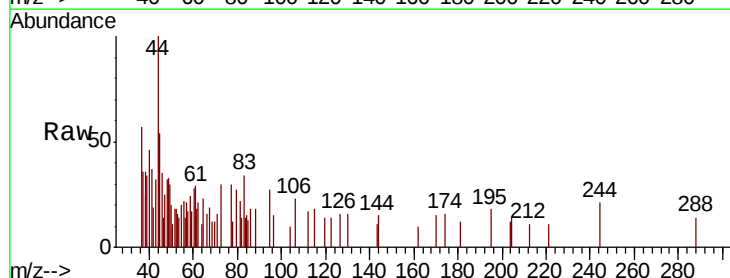
Tgt Ion: 88 Resp: 143

Ion Ratio Lower Upper

88 100

43 254.5 22.2 33.4#

58 162.2 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

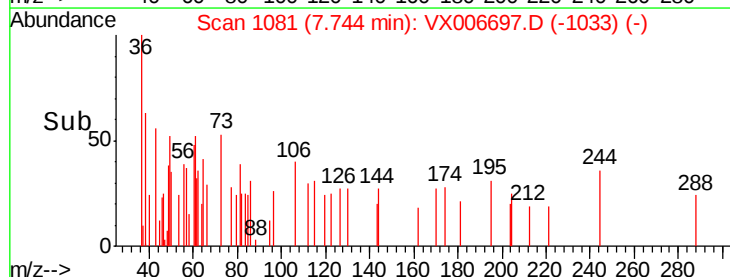
300

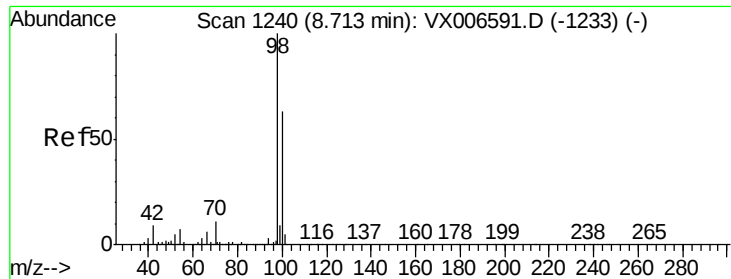
200

100

0

Time-->





#50

Toluene-d8

Concen: 49.080 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX006697.D

Acq: 21 Dec 2018 01:34

Instrument :

MSVOA_X

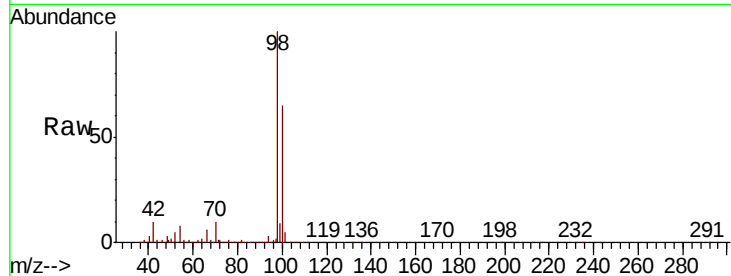
ClientSampleId :

Tot Ion: 98 Resp: 1188995

Ion Ratio Lower Upper

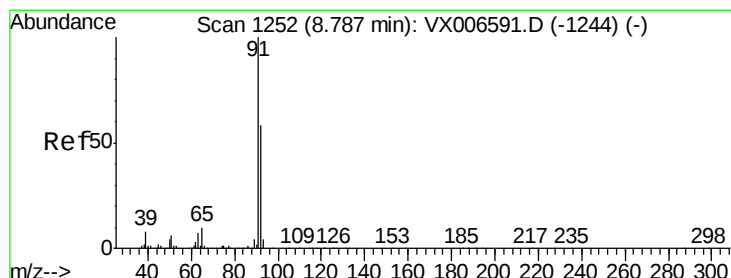
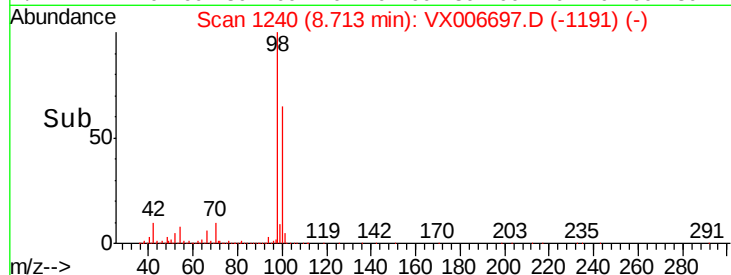
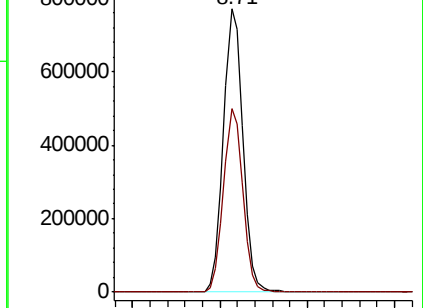
98 100

100 64.6 52.0 78.0



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX



#52

Toluene

Concen: 0.318 ug/l

RT: 8.78 min Scan# 1251

Delta R.T. -0.01 min

Lab File: VX006697.D

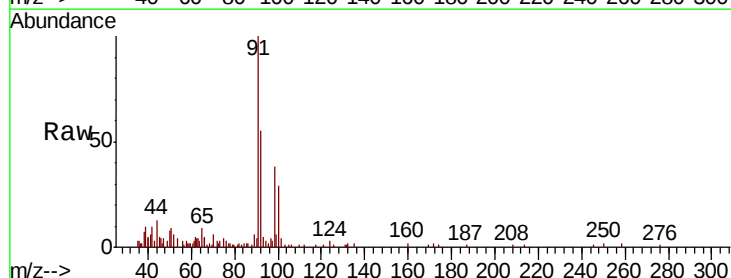
Acq: 21 Dec 2018 01:34

Tgt Ion: 92 Resp: 5262

Ion Ratio Lower Upper

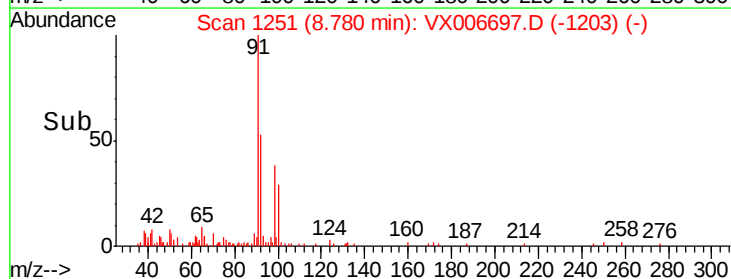
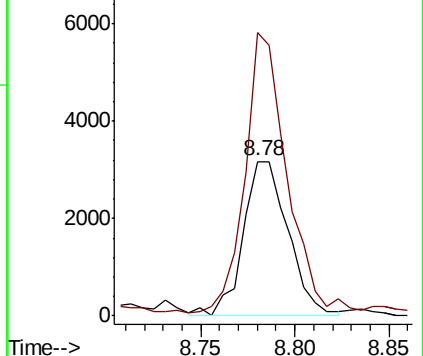
92 100

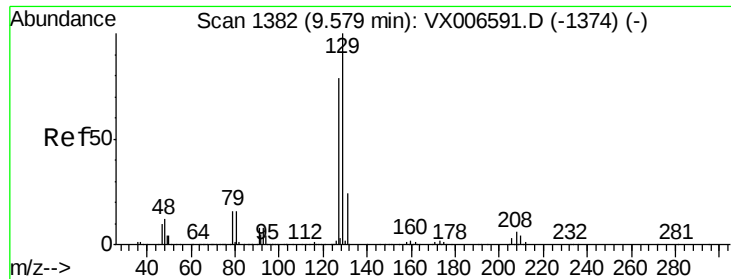
91 169.7 137.6 206.4



Abundance Ion 92.00 (91.70 to 92.70): VX0

Ion 91.00 (90.70 to 91.70): VX0

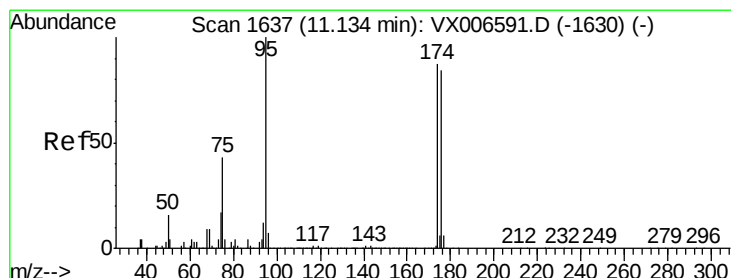
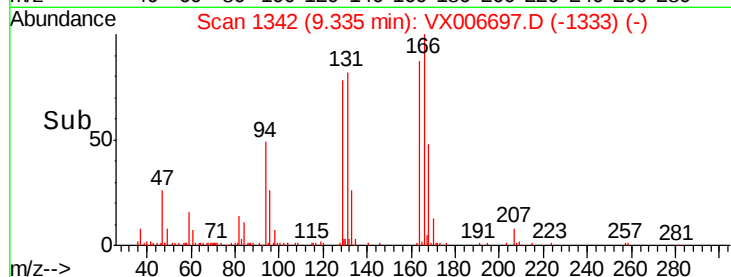
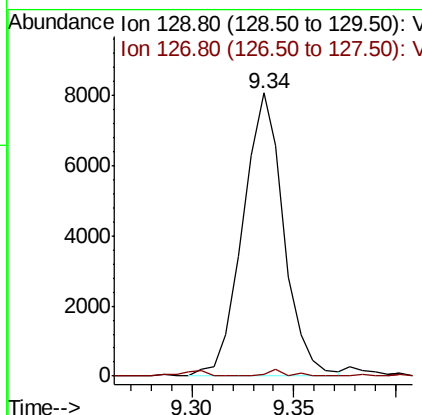
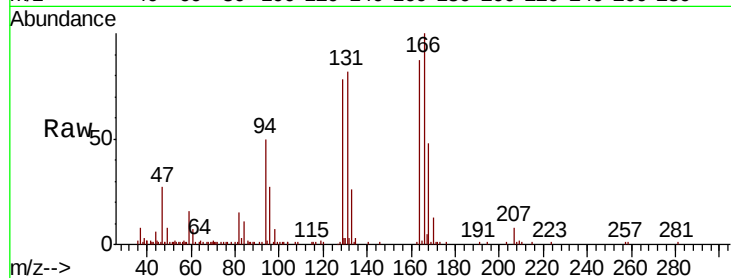




#60
 Dibromochloromethane
 Concen: 3.840 ug/l
 RT: 9.34 min Scan# 1342
 Delta R.T. -0.24 min
 Lab File: VX006697.D
 Acq: 21 Dec 2018 01:34

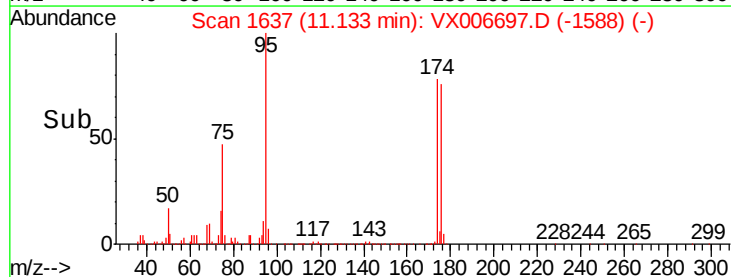
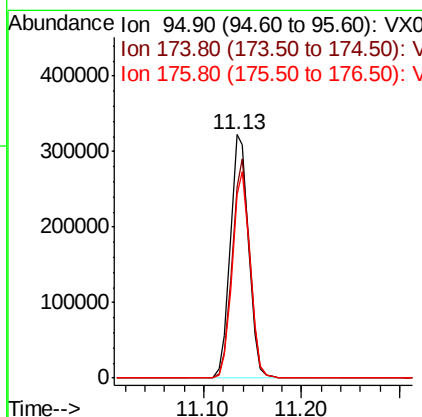
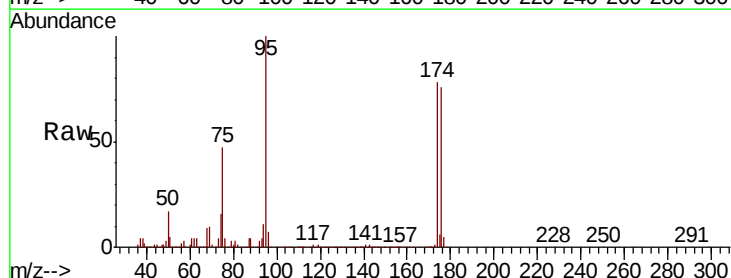
Instrument :
 MSVOA_X
 ClientSampleId :

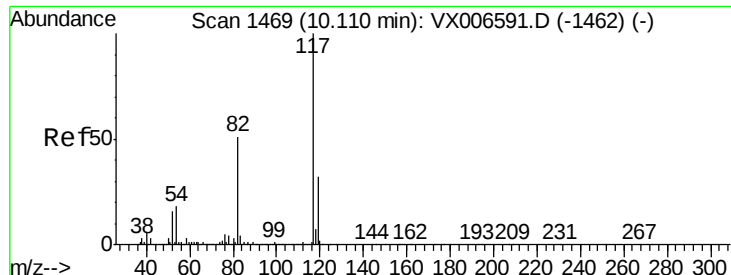
Tot Ion:129 Resp: 11248
 Ion Ratio Lower Upper
 129 100
 127 1.1 39.3 117.8#



#62
 4-Bromofluorobenzene
 Concen: 47.163 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.00 min
 Lab File: VX006697.D
 Acq: 21 Dec 2018 01:34

Tgt Ion: 95 Resp: 418444
 Ion Ratio Lower Upper
 95 100
 174 86.7 0.0 182.2
 176 82.7 0.0 178.8

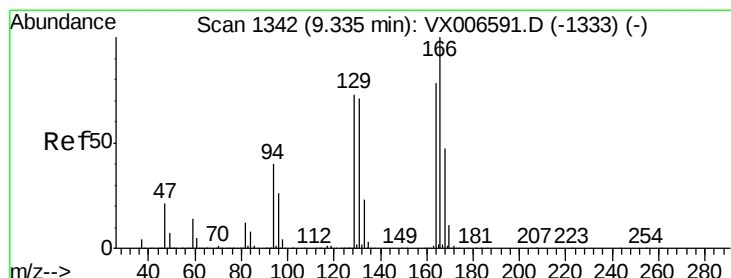
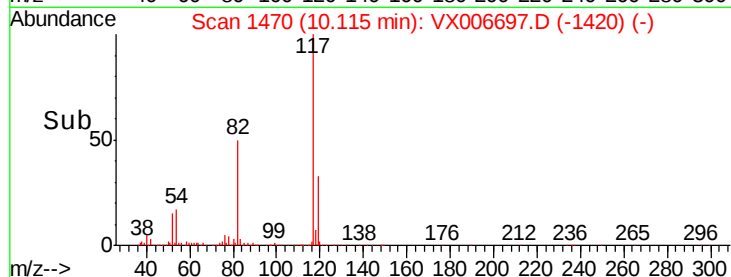
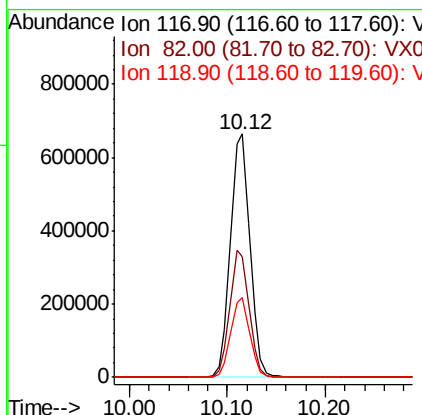
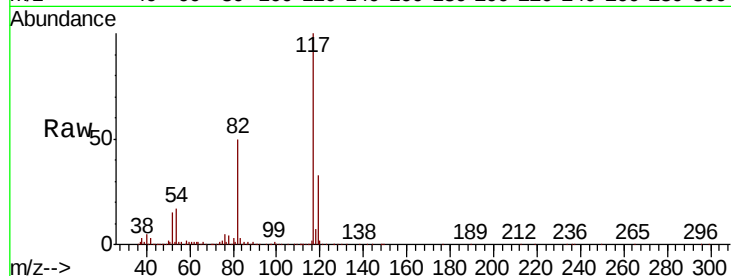




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.01 min
Lab File: VX006697.D
Acq: 21 Dec 2018 01:34

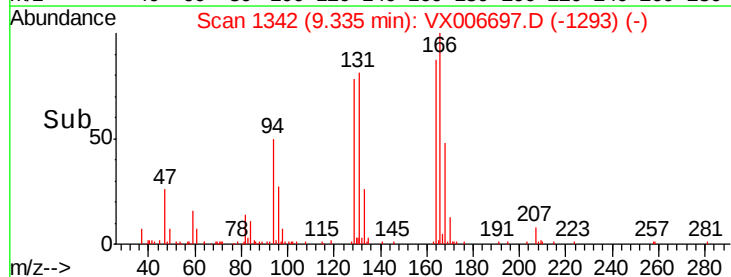
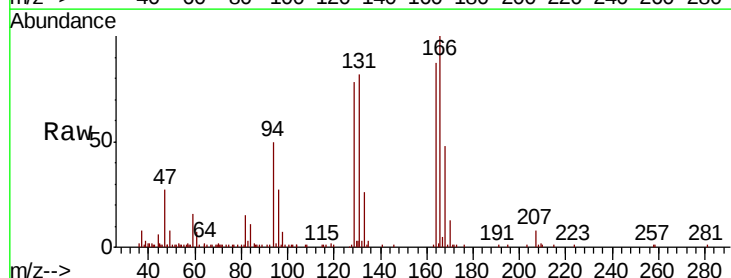
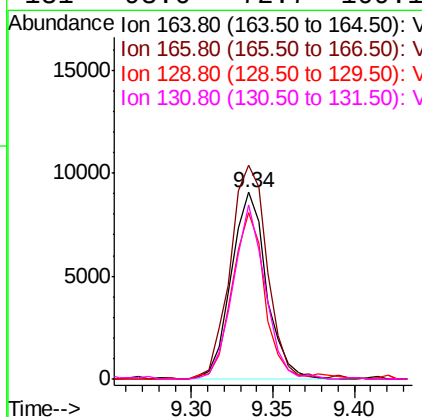
Instrument :
MSVOA_X
ClientSampled :

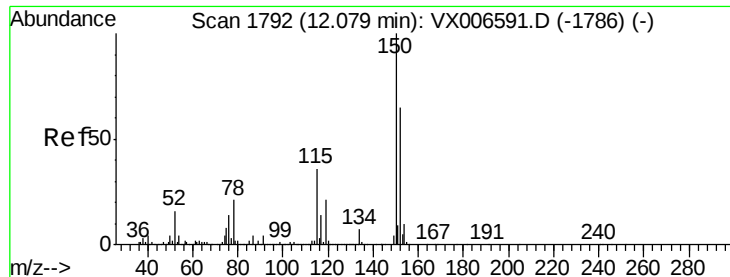
Tot Ion	Ratio	Lower	Upper
117	100		
82	49.8	41.0	61.6
119	32.7	25.4	38.0



#64
Tetrachloroethene
Concen: 1.860 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. -0.00 min
Lab File: VX006697.D
Acq: 21 Dec 2018 01:34

Tgt Ion	Ratio	Lower	Upper
164	100		
166	114.6	102.5	153.7
129	89.1	75.1	112.7
131	93.6	72.7	109.1





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX006697.D

Acq: 21 Dec 2018 01:34

Instrument :

MSVOA_X

ClientSampleId :

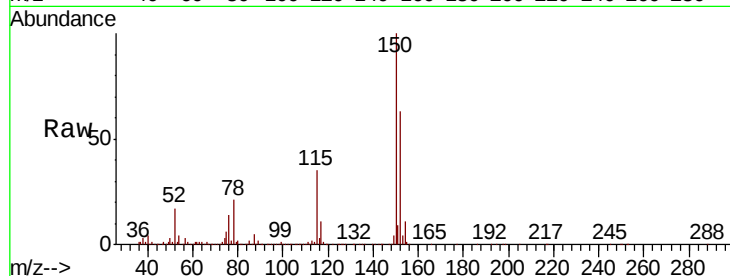
Tot Ion:152 Resp: 419734

Ion Ratio Lower Upper

152 100

115 56.6 39.1 117.2

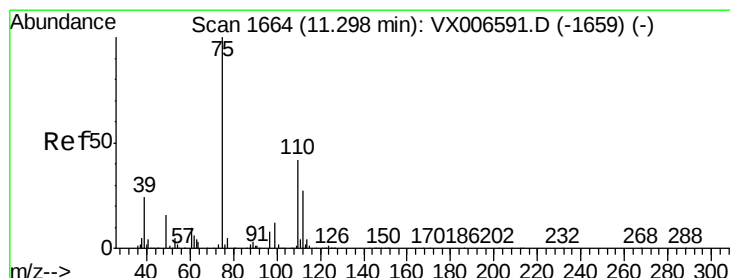
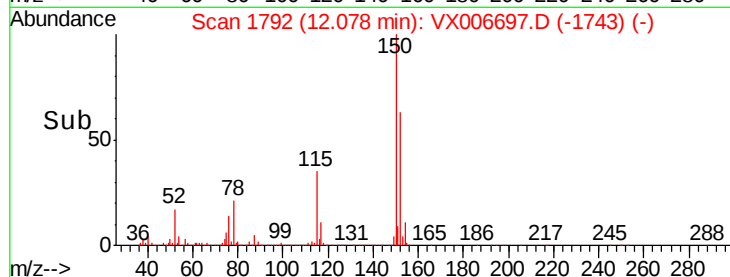
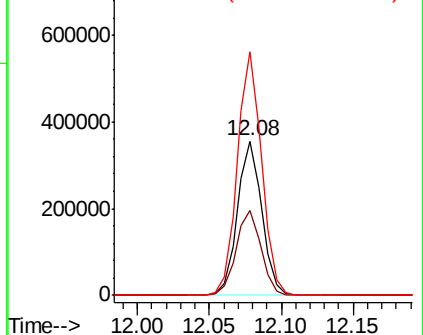
150 157.6 0.0 344.8



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: 24.896 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX006697.D

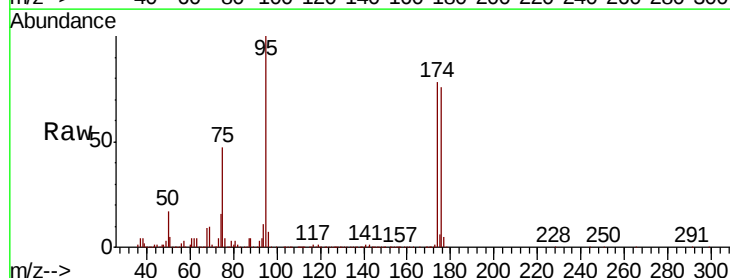
Acq: 21 Dec 2018 01:34

Tgt Ion: 75 Resp: 194201

Ion Ratio Lower Upper

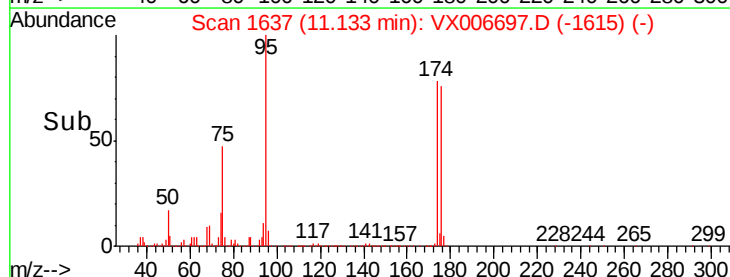
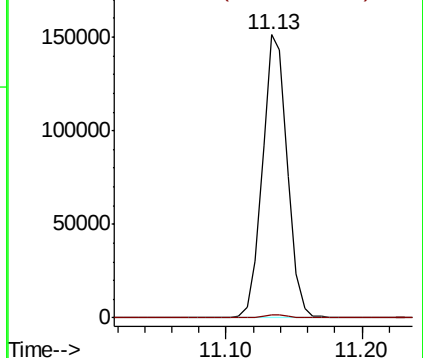
75 100

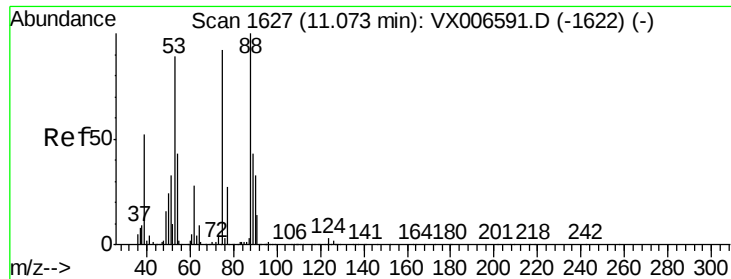
77 1.3 18.5 55.5#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 73.585 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX006697.D

Acq: 21 Dec 2018 01:34

Instrument :

MSVOA_X

ClientSampleId :

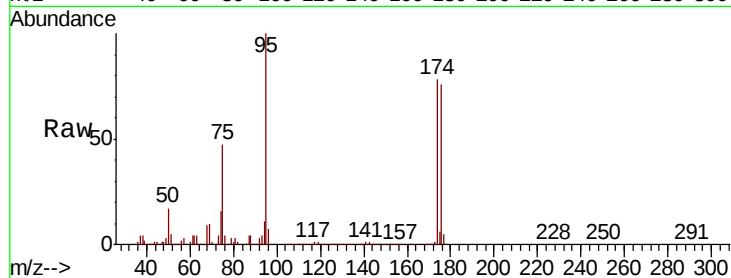
Tot Ion: 75 Resp: 194201

Ion Ratio Lower Upper

75 100

53 0.1 79.7 119.5#

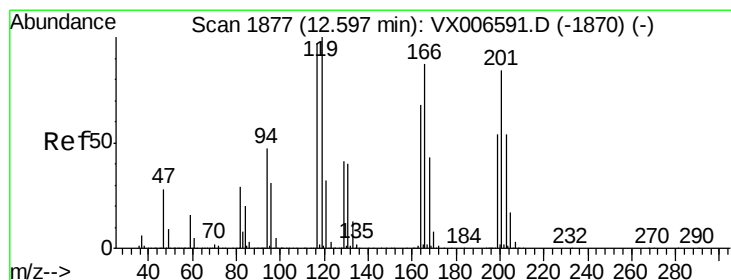
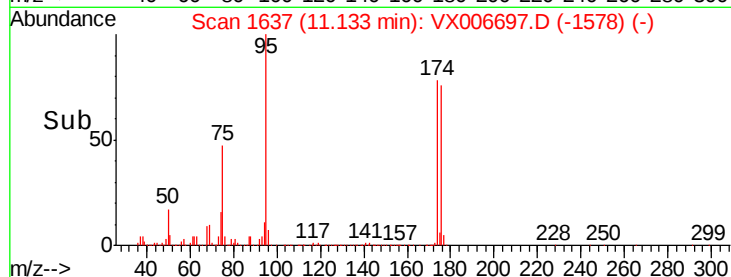
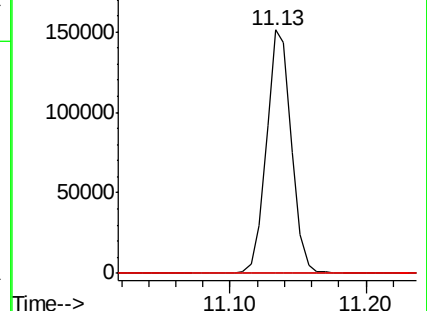
89 0.1 38.0 57.0#



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: 3.306 ug/l

RT: 12.58 min Scan# 1874

Delta R.T. -0.02 min

Lab File: VX006697.D

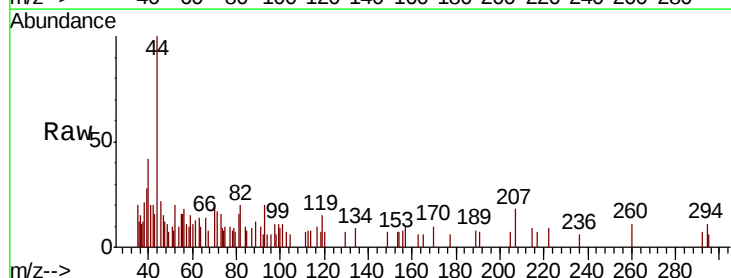
Acq: 21 Dec 2018 01:34

Tgt Ion: 117 Resp: 55

Ion Ratio Lower Upper

117 100

201 78.2 42.9 128.7



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

