

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX122018\
 Data File : VX006672.D
 Acq On : 20 Dec 2018 13:34
 Operator : JC/MD
 Sample : J6484-07
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 967-MW-05(17)

Quant Time: Dec 21 03:30:18 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	639937	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	1001908	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	926835	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	438799	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	348499	50.53	ug/l	0.00
Spiked Amount			Recovery	=	101.06%	
35) Dibromofluoromethane	5.50	113	295316	46.61	ug/l	0.00
Spiked Amount			Recovery	=	93.22%	
50) Toluene-d8	8.71	98	1194305	50.00	ug/l	0.00
Spiked Amount			Recovery	=	100.00%	
62) 4-Bromofluorobenzene	11.13	95	429464	49.09	ug/l	0.00
Spiked Amount			Recovery	=	98.18%	

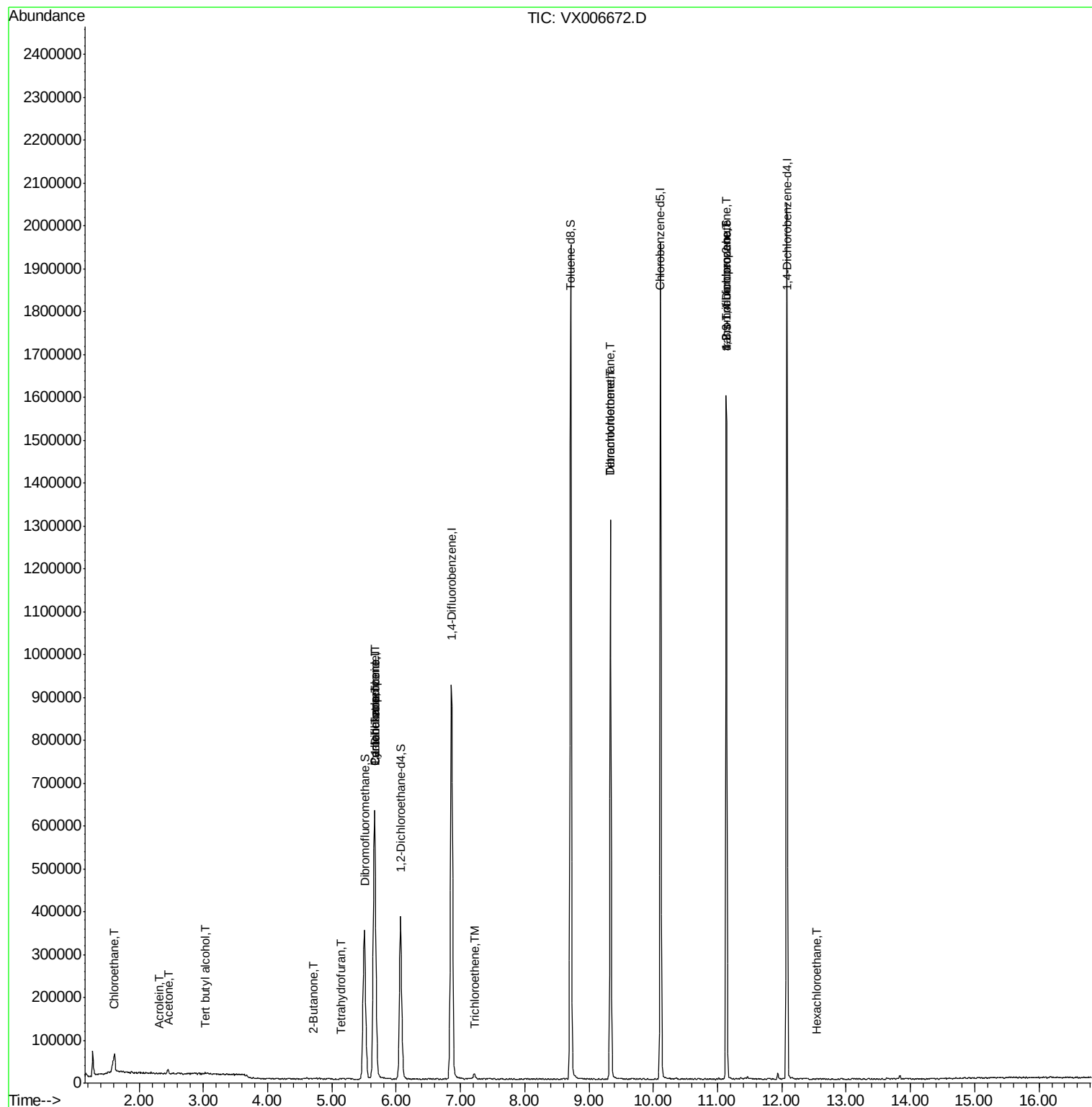
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	449	Below Cal		90
6) Chloroethane	1.61	64	16012	3.511	ug/l #	47
11) Tert butyl alcohol	3.03	59	1751	1.138	ug/l #	82
13) Acrolein	2.32	56	361	0.348	ug/l #	32
16) Acetone	2.45	43	10898	3.439	ug/l	96
25) 2-Butanone	4.71	43	2304	0.517	ug/l #	85
28) Bromochloromethane	5.04	49	168	Below Cal	#	47
29) Tetrahydrofuran	5.15	42	2194	0.747	ug/l #	81
31) Cyclohexane	5.66	56	11031	1.155	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	41593	5.012	ug/l #	43
38) Carbon Tetrachloride	5.66	117	58463	7.249	ug/l #	15
44) Trichloroethene	7.22	130	6114	0.801	ug/l	88
49) 1,4-Dioxane	7.76	88	129	Below Cal	#	1
60) Dibromochloromethane	9.34	129	241063	35.274	ug/l #	10
64) Tetrachloroethene	9.34	164	255070	34.755	ug/l	98
76) 1,2,3-Trichloropropane	11.13	75	201237	24.677	ug/l #	40
81) trans-1,4-Dichloro-2-buten	11.13	75	201237	72.975	ug/l #	10
90) Hexachloroethane	12.54	117	149	3.327	ug/l	57

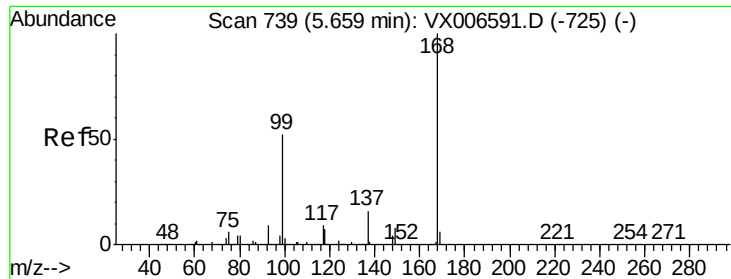
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX006672.D

Acq: 20 Dec 2018 13:34

Instrument :

MSVOA_X

ClientSampleId :

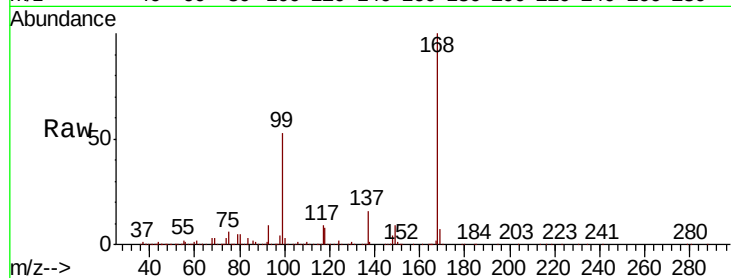
967-MW-05(17)

Tot Ion:168 Resp: 639937

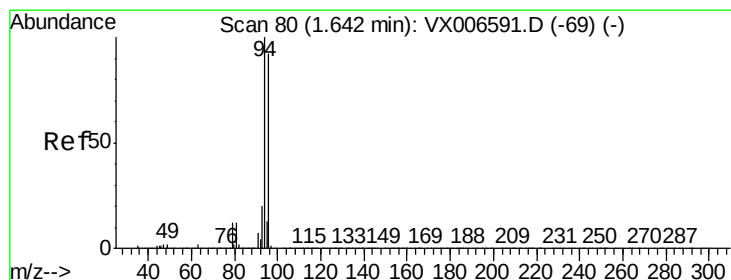
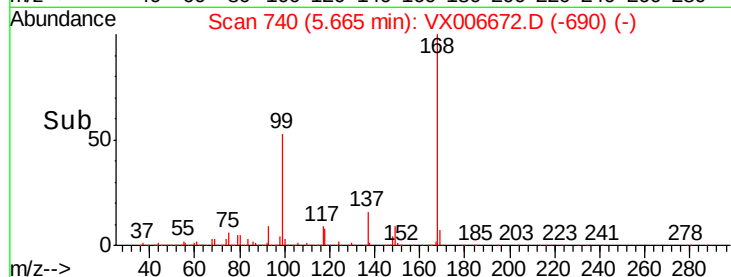
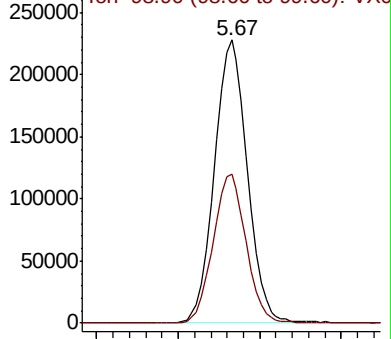
Ion Ratio Lower Upper

168 100

99 52.7 41.8 62.8



Abundance Ion 167.90 (167.60 to 168.60): VX006672.D (-690) (-)



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX006672.D

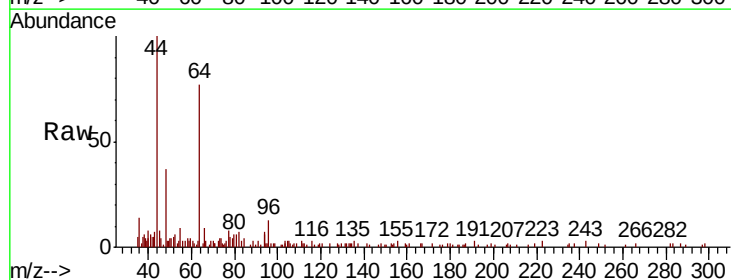
Acq: 20 Dec 2018 13:34

Tgt Ion: 94 Resp: 449

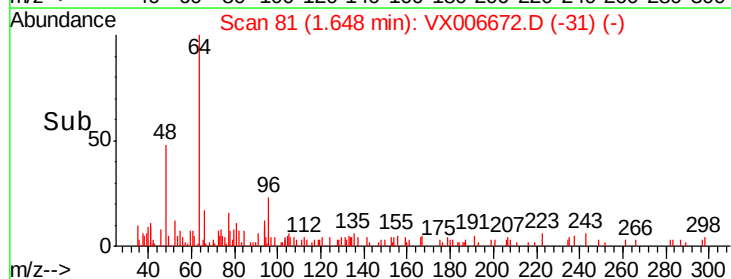
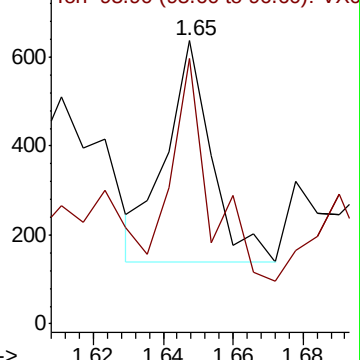
Ion Ratio Lower Upper

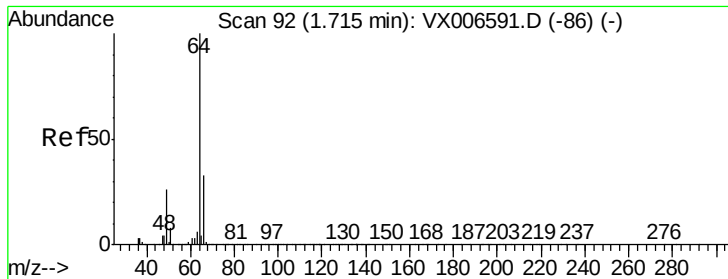
94 100

96 101.0 73.4 110.2



Abundance Ion 93.90 (93.60 to 94.60): VX006672.D (-31) (-)





#6

Chloroethane

Concen: 3.511 ug/l

RT: 1.61 min Scan# 75

Delta R.T. -0.10 min

Lab File: VX006672.D

Acq: 20 Dec 2018 13:34

Instrument :

MSVOA_X

ClientSampleId :

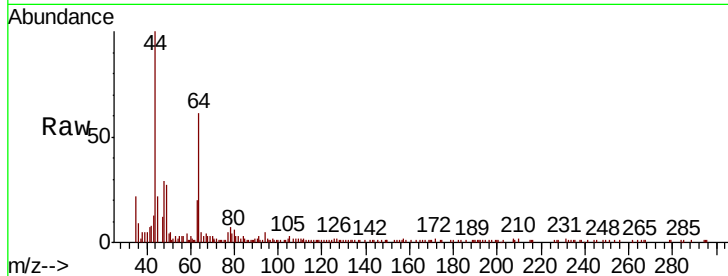
967-MW-05(17)

Tot Ion: 64 Resp: 16012

Ion Ratio Lower Upper

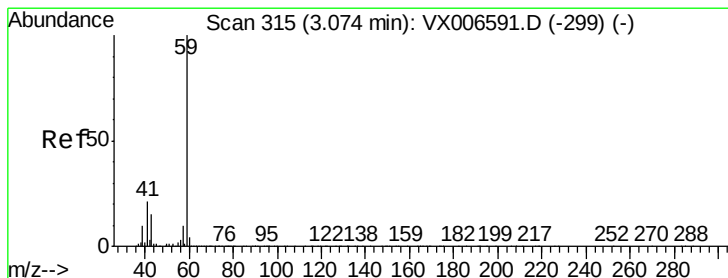
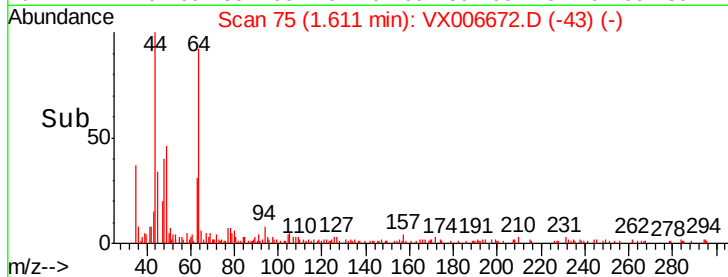
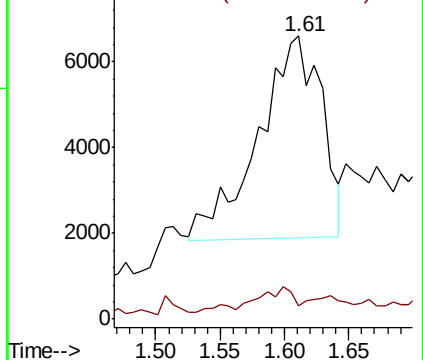
64 100

66 3.2 26.4 39.6#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#11

Tert butyl alcohol

Concen: 1.138 ug/l

RT: 3.03 min Scan# 308

Delta R.T. -0.04 min

Lab File: VX006672.D

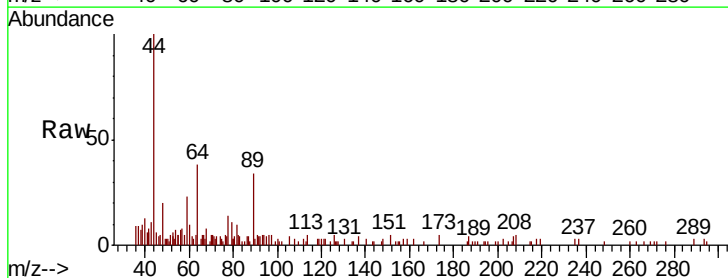
Acq: 20 Dec 2018 13:34

Tgt Ion: 59 Resp: 1751

Ion Ratio Lower Upper

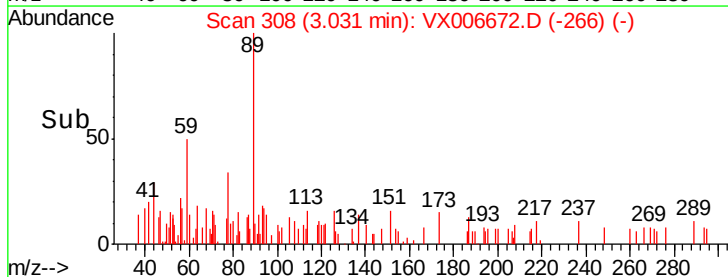
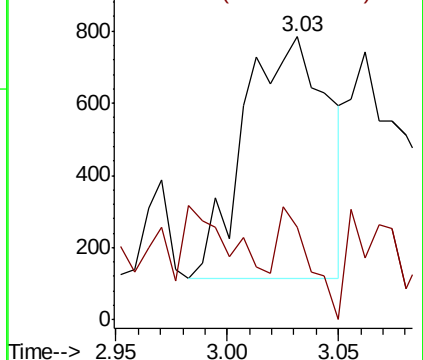
59 100

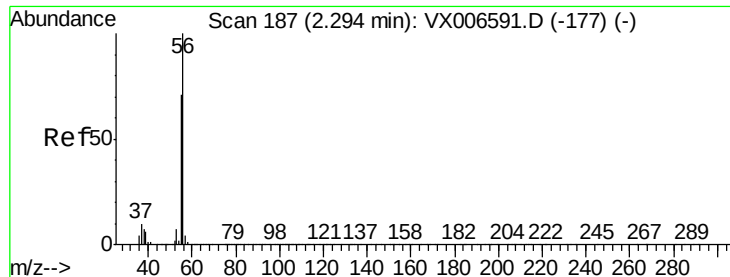
57 17.2 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 0.348 ug/l

RT: 2.32 min Scan# 191

Delta R.T. 0.02 min

Lab File: VX006672.D

Acq: 20 Dec 2018 13:34

Instrument :

MSVOA_X

ClientSampleId :

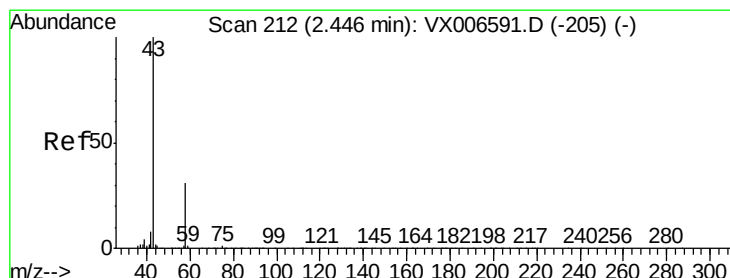
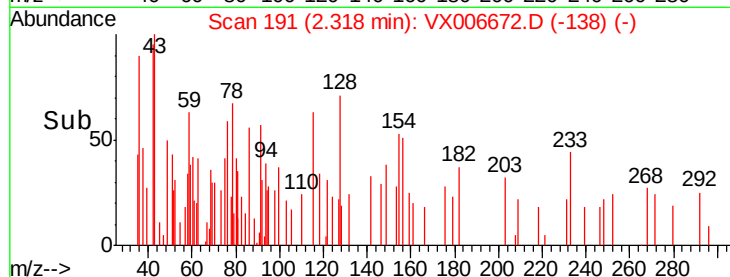
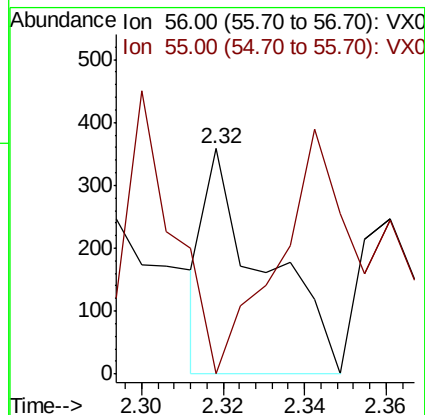
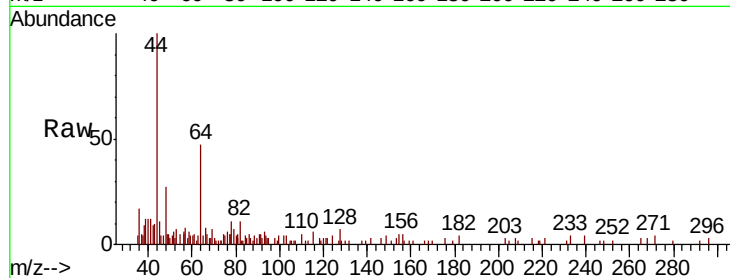
967-MW-05(17)

Tot Ion: 56 Resp: 361

Ion Ratio Lower Upper

56 100

55 130.2 58.2 87.4#



#16

Acetone

Concen: 3.439 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX006672.D

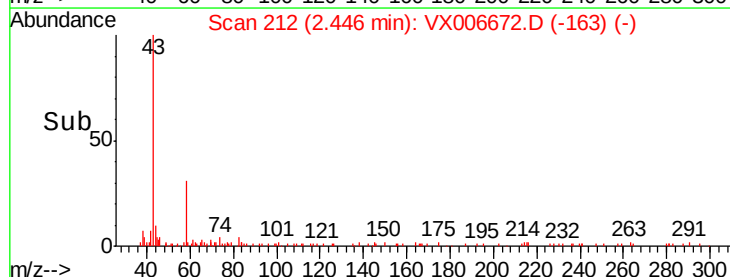
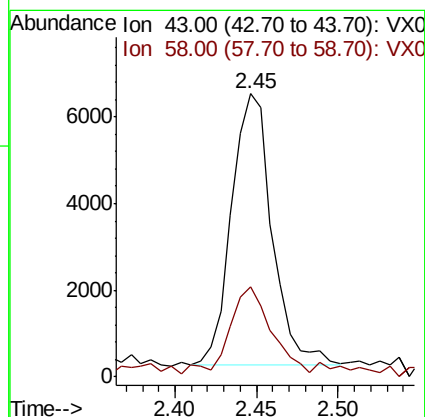
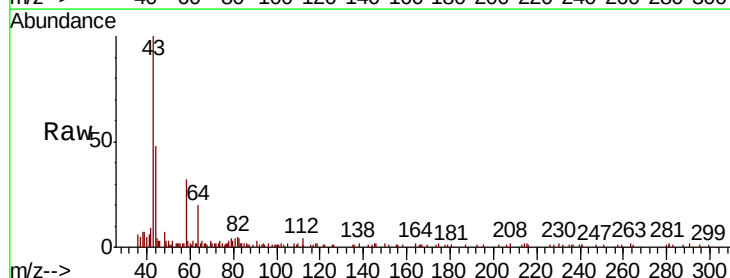
Acq: 20 Dec 2018 13:34

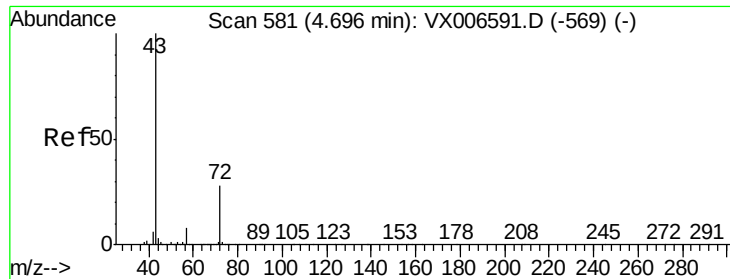
Tgt Ion: 43 Resp: 10898

Ion Ratio Lower Upper

43 100

58 29.2 25.0 37.6





#25

2-Butanone

Concen: 0.517 ug/l

RT: 4.71 min Scan# 584

Delta R.T. 0.02 min

Lab File: VX006672.D

Acq: 20 Dec 2018 13:34

Instrument :

MSVOA_X

ClientSampleId :

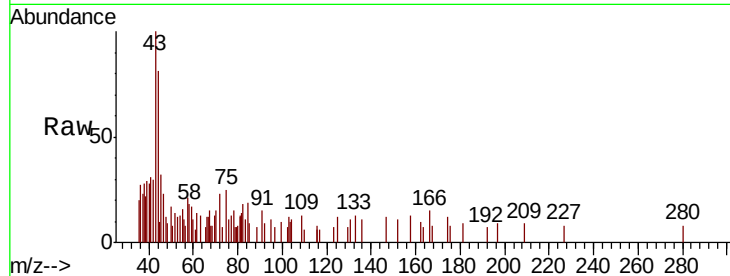
967-MW-05(17)

Tot Ion: 43 Resp: 2304

Ion Ratio Lower Upper

43 100

72 19.9 22.4 33.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

4.71

800

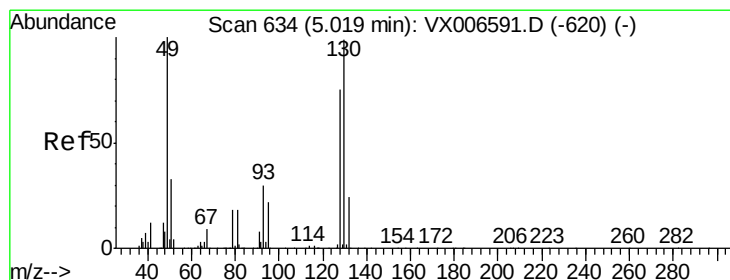
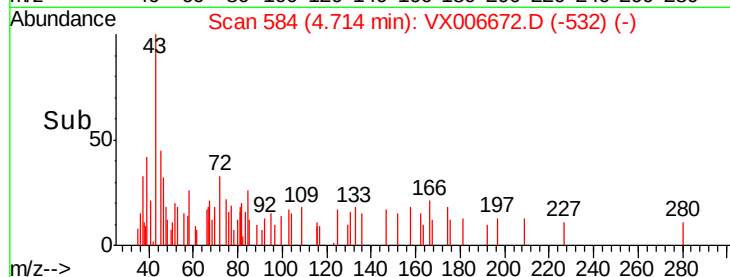
600

400

200

0

Time-->



#28

Bromochloromethane

Concen: Below Cal

RT: 5.04 min Scan# 638

Delta R.T. 0.02 min

Lab File: VX006672.D

Acq: 20 Dec 2018 13:34

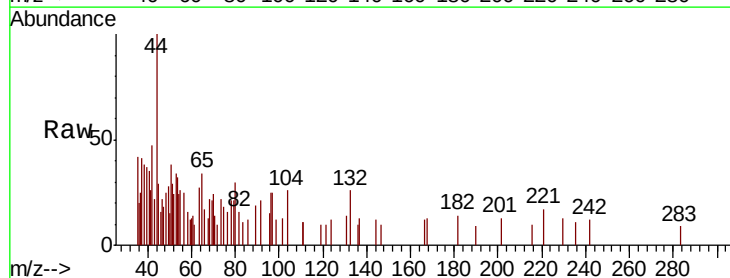
Tgt Ion: 49 Resp: 168

Ion Ratio Lower Upper

49 100

129 74.4 0.0 5.4#

130 49.4 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

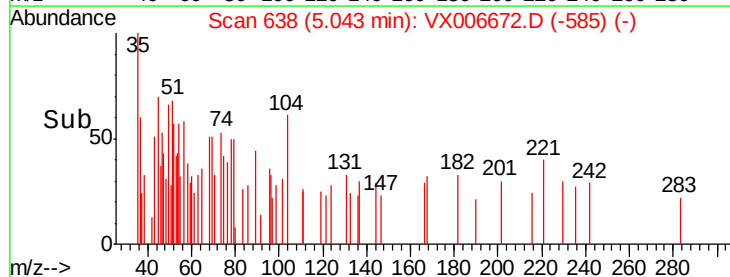
300

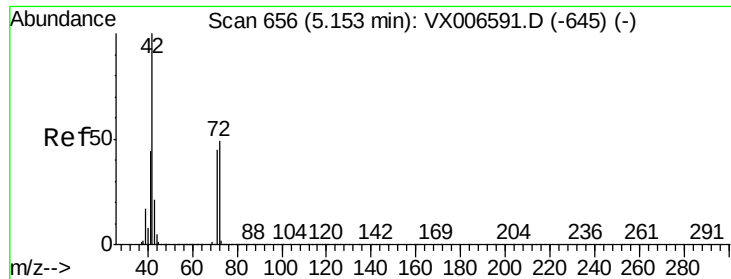
200

100

0

Time-->

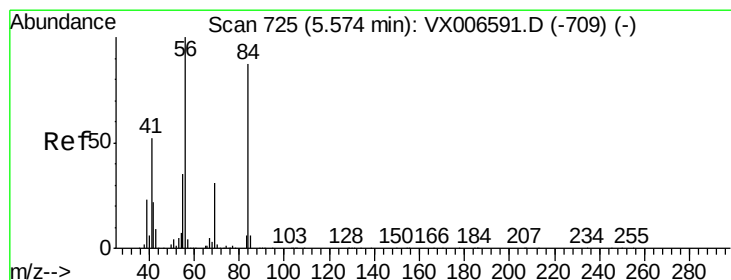
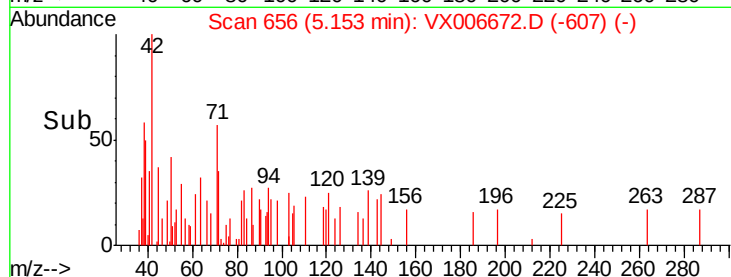
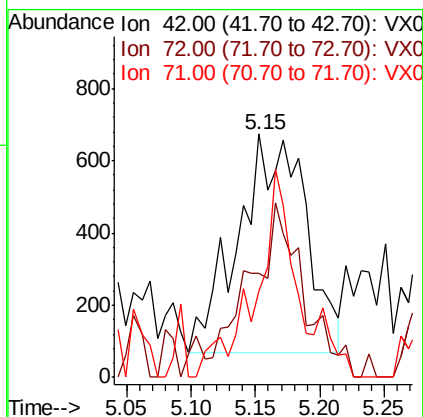
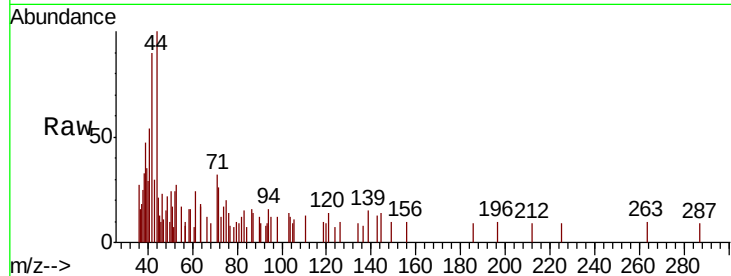




#29
Tetrahydrofuran
Concen: 0.747 ug/l
RT: 5.15 min Scan# 656
Delta R.T. -0.00 min
Lab File: VX006672.D
Acq: 20 Dec 2018 13:34

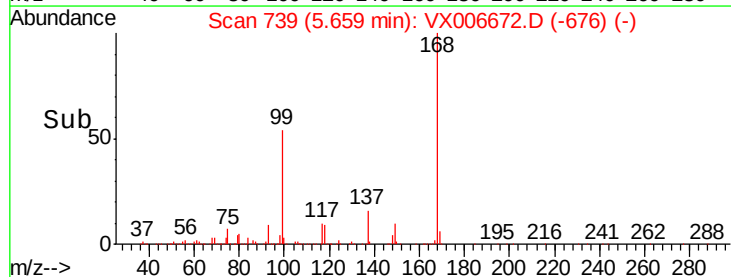
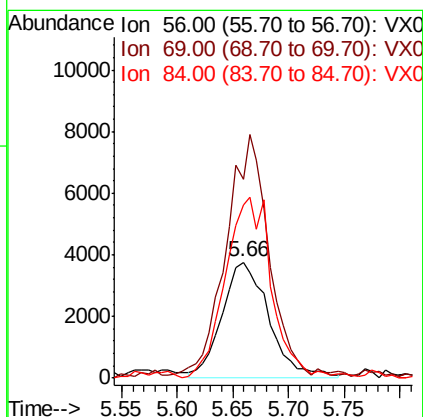
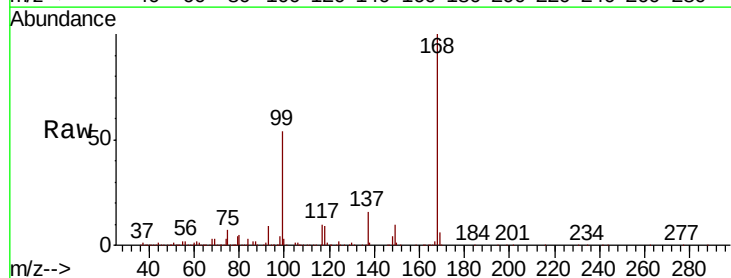
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967-MW-05(17)

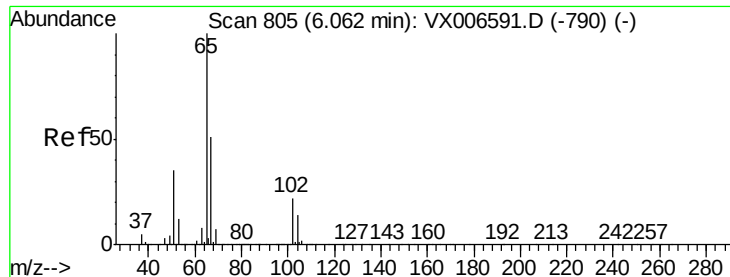
Tot Ion: 42 Resp: 2194
Ion Ratio Lower Upper
42 100
72 65.3 38.9 58.3#
71 53.9 36.2 54.4



#31
Cyclohexane
Concen: 1.155 ug/l
RT: 5.66 min Scan# 739
Delta R.T. 0.09 min
Lab File: VX006672.D
Acq: 20 Dec 2018 13:34

Tgt Ion: 56 Resp: 11031
Ion Ratio Lower Upper
56 100
69 169.0 24.4 36.6#
84 151.3 70.0 105.0#

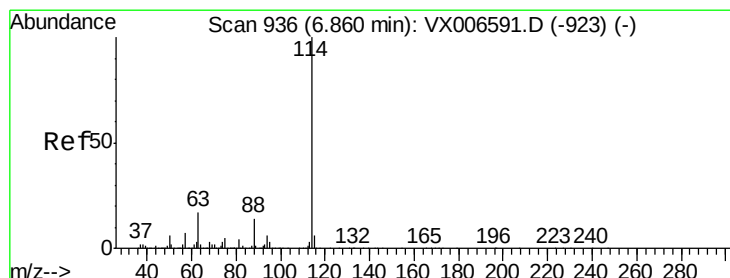
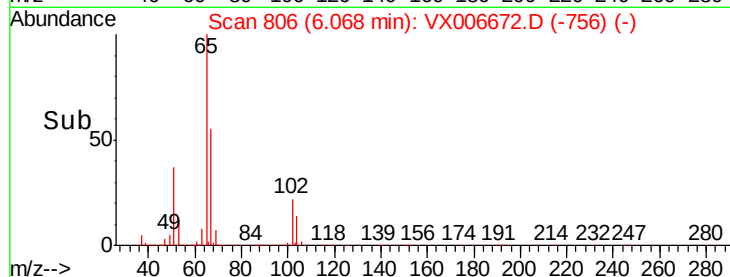
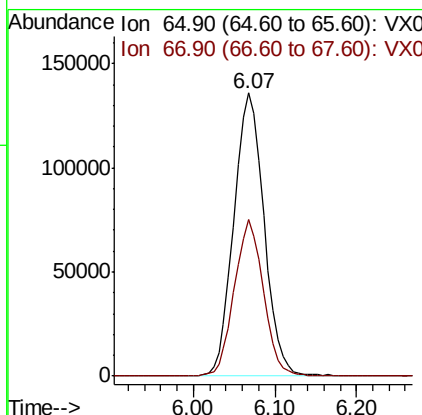
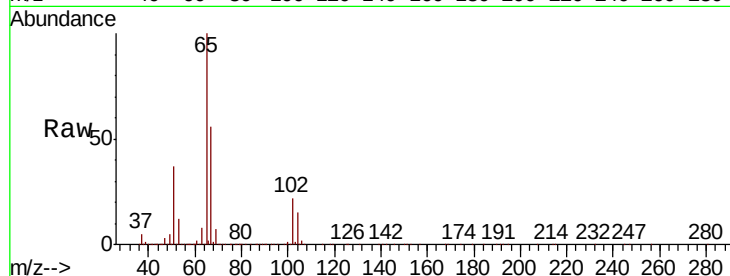




#33
 1,2-Dichloroethane-d4
 Concen: 50.529 ug/l
 RT: 6.07 min Scan# 806
 Delta R.T. 0.01 min
 Lab File: VX006672.D
 Acq: 20 Dec 2018 13:34

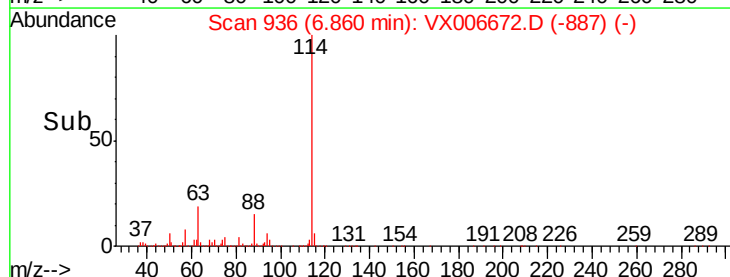
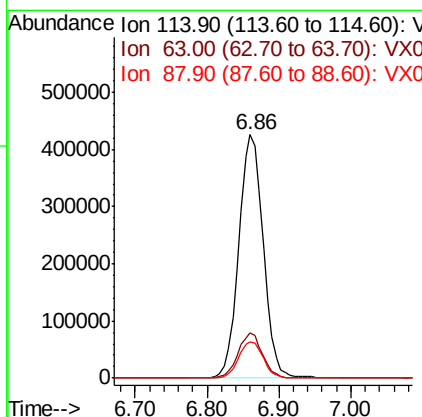
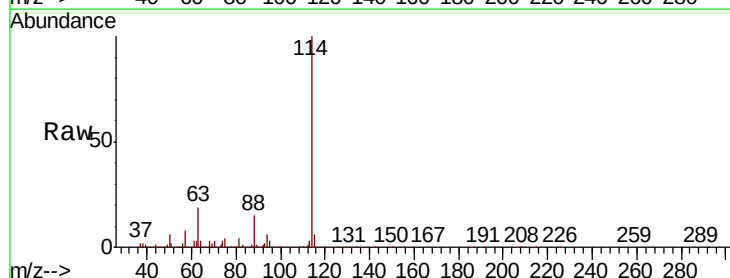
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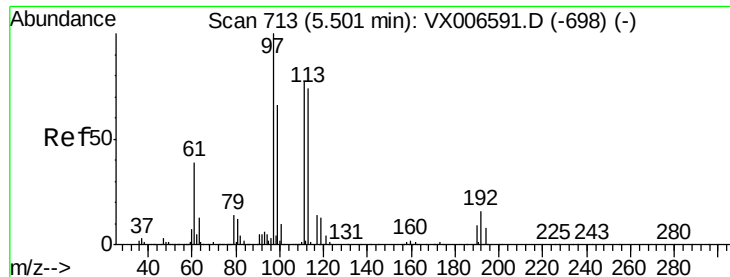
Tot Ion: 65 Resp: 348499
 Ion Ratio Lower Upper
 65 100
 67 53.1 0.0 105.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX006672.D
 Acq: 20 Dec 2018 13:34

Tgt Ion: 114 Resp: 1001908
 Ion Ratio Lower Upper
 114 100
 63 18.6 0.0 34.8
 88 14.6 0.0 28.8





#35

Dibromofluoromethane

Concen: 46.610 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX006672.D

Acq: 20 Dec 2018 13:34

Instrument :

MSVOA_X

ClientSampleId :

967-MW-05(17)

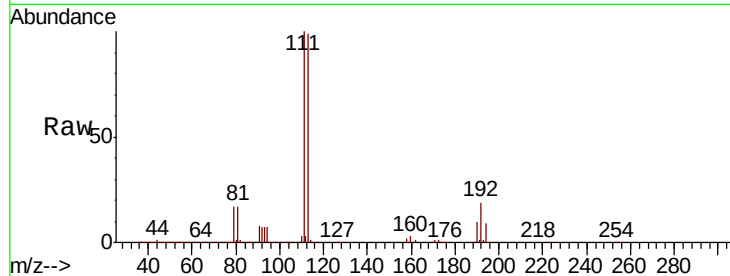
Tot Ion:113 Resp: 295316

Ion Ratio Lower Upper

113 100

111 103.4 81.6 122.4

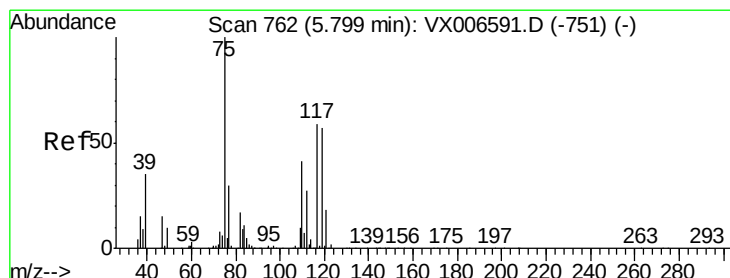
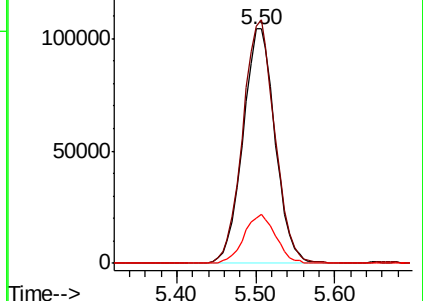
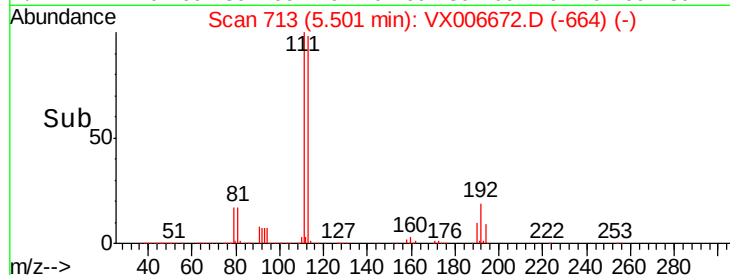
192 20.7 16.7 25.1



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 5.012 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX006672.D

Acq: 20 Dec 2018 13:34

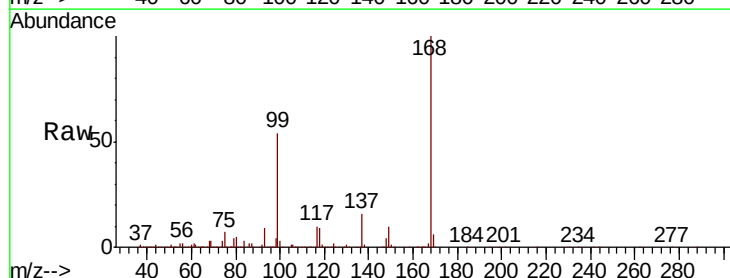
Tgt Ion: 75 Resp: 41593

Ion Ratio Lower Upper

75 100

110 5.2 20.2 60.5#

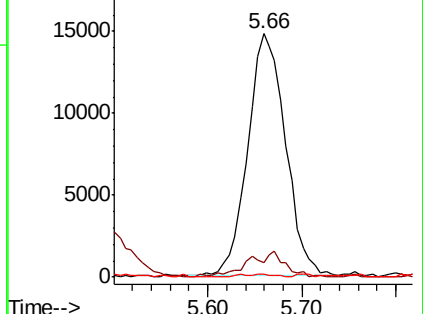
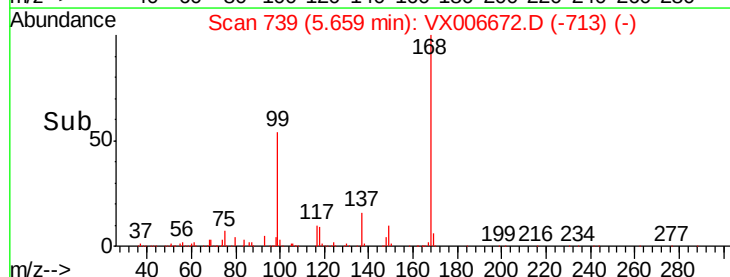
77 0.0 24.8 37.2#

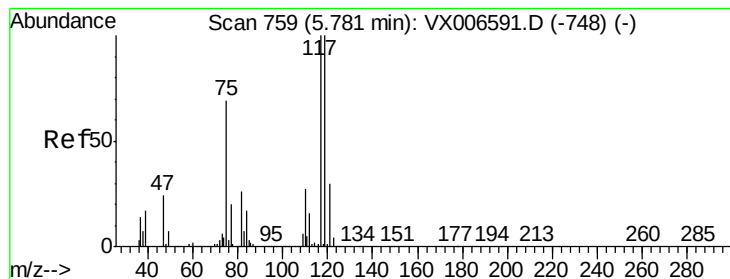


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 7.249 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX006672.D

Acq: 20 Dec 2018 13:34

Instrument :

MSVOA_X

ClientSampleId :

967-MW-05(17)

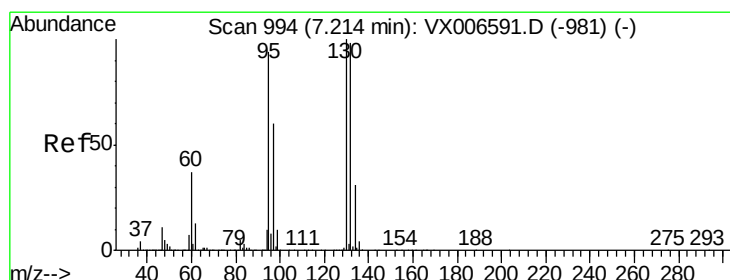
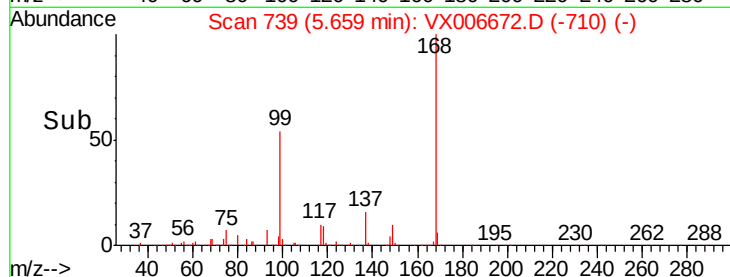
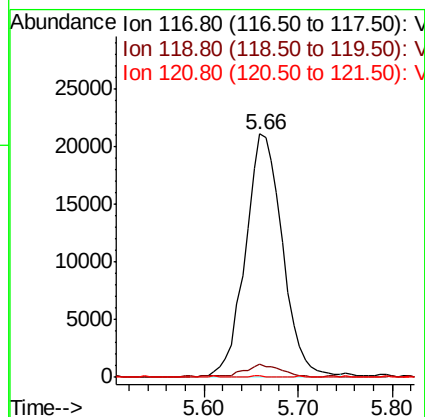
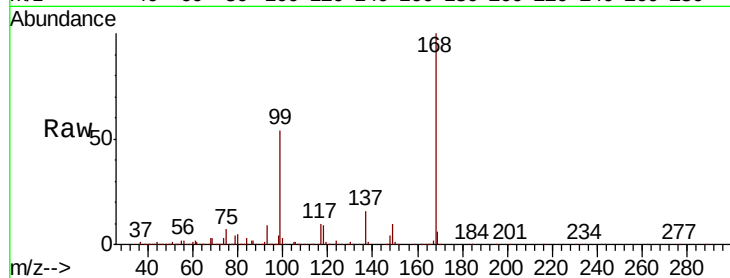
Tot Ion:117 Resp: 58463

Ion Ratio Lower Upper

117 100

119 5.3 79.4 119.2#

121 0.6 24.0 36.0#



#44

Trichloroethene

Concen: 0.801 ug/l

RT: 7.22 min Scan# 995

Delta R.T. 0.01 min

Lab File: VX006672.D

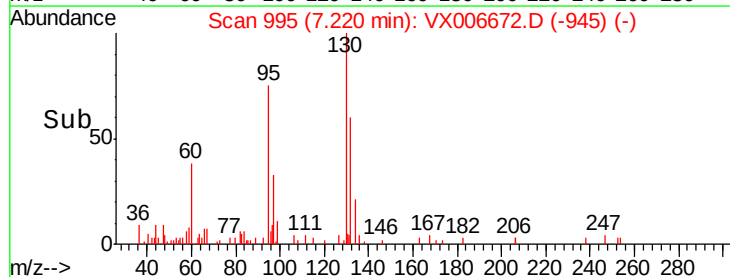
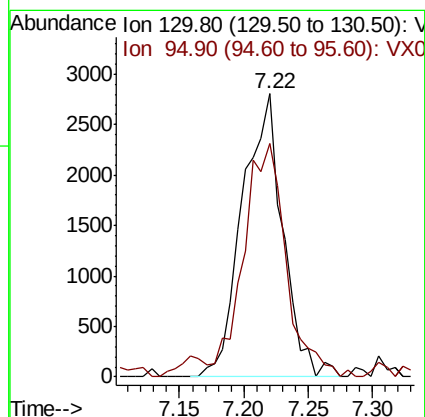
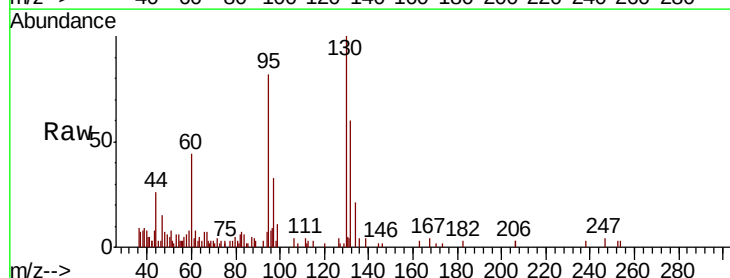
Acq: 20 Dec 2018 13:34

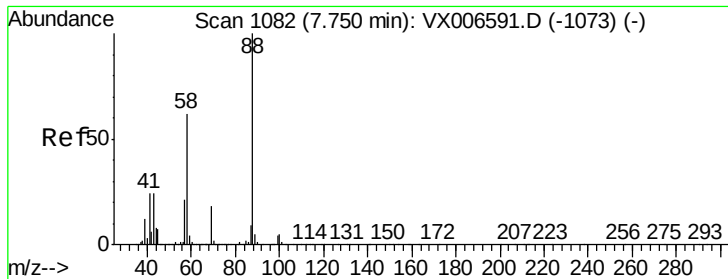
Tgt Ion:130 Resp: 6114

Ion Ratio Lower Upper

130 100

95 82.4 0.0 187.0

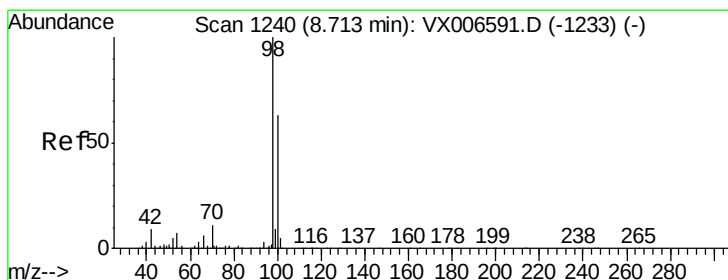
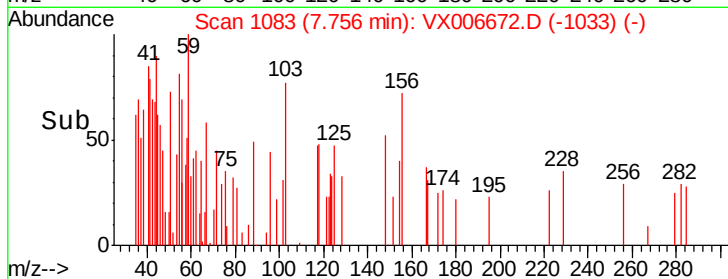
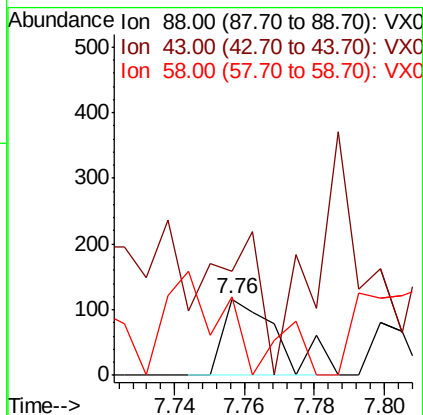
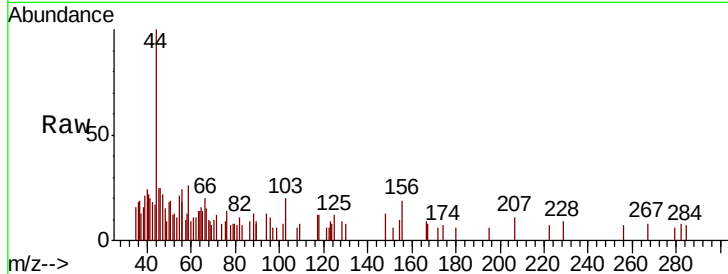




#49
1,4-Dioxane
Concen: Below Cal
RT: 7.76 min Scan# 1083
Delta R.T. 0.01 min
Lab File: VX006672.D
Acq: 20 Dec 2018 13:34

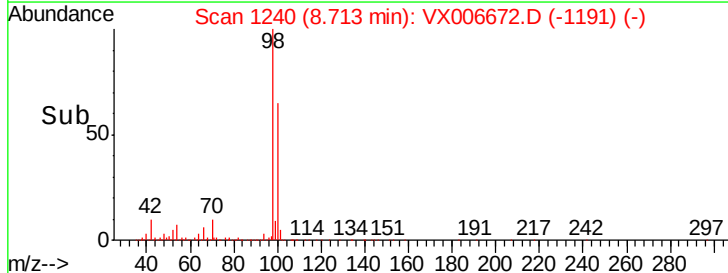
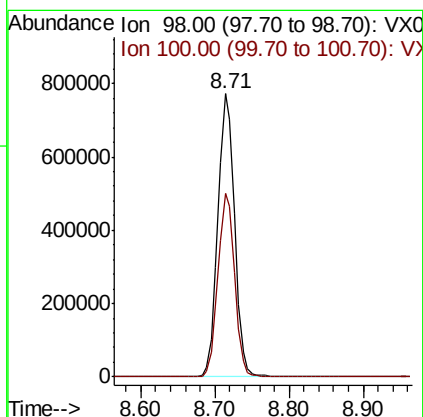
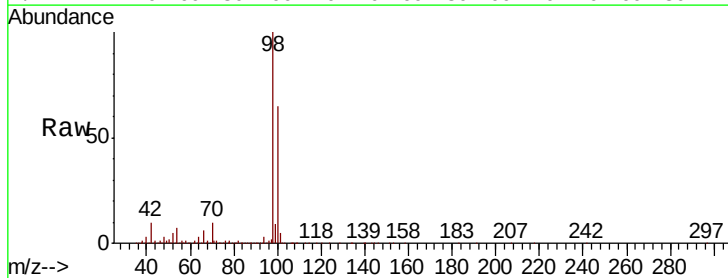
Instrument :
MSVOA_X
ClientSampleId :
967-MW-05(17)

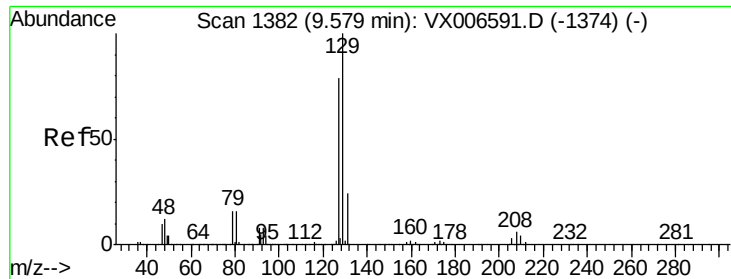
Tot Ion: 88 Resp: 129
Ion Ratio Lower Upper
88 100
43 348.1 22.2 33.4#
58 130.2 51.0 76.4#



#50
Toluene-d8
Concen: 49.999 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX006672.D
Acq: 20 Dec 2018 13:34

Tgt Ion: 98 Resp: 1194305
Ion Ratio Lower Upper
98 100
100 64.7 52.0 78.0





#60

Dibromochloromethane

Concen: 35.274 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.24 min

Lab File: VX006672.D

Acq: 20 Dec 2018 13:34

Instrument :

MSVOA_X

ClientSampleId :

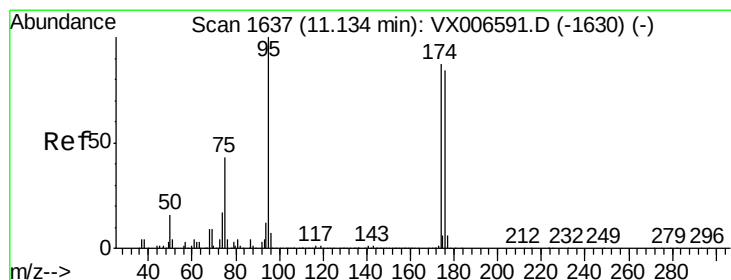
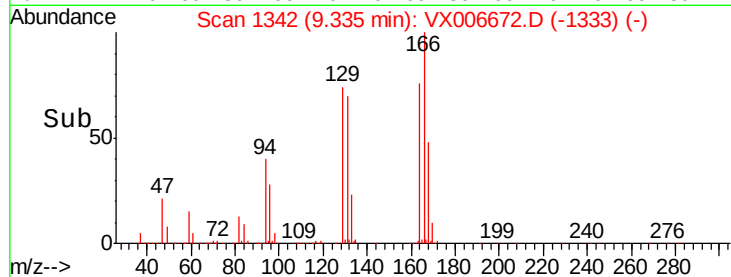
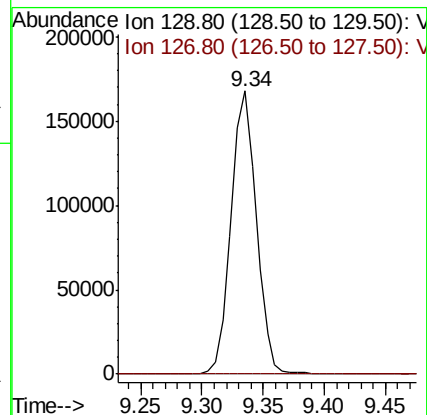
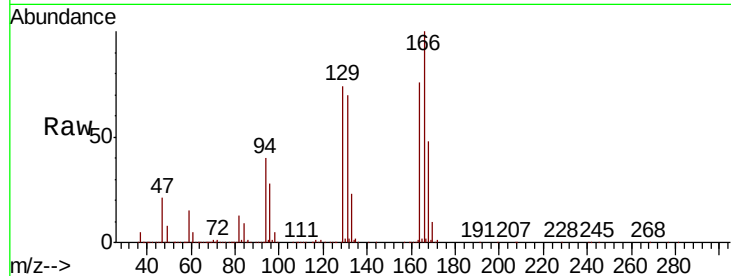
967-MW-05(17)

Tot Ion:129 Resp: 241063

Ion Ratio Lower Upper

129 100

127 0.1 39.3 117.8#



#62

4-Bromofluorobenzene

Concen: 49.092 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX006672.D

Acq: 20 Dec 2018 13:34

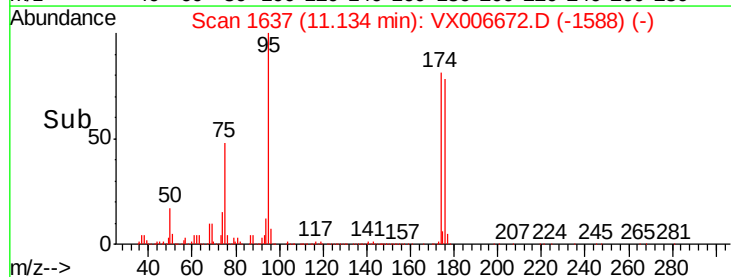
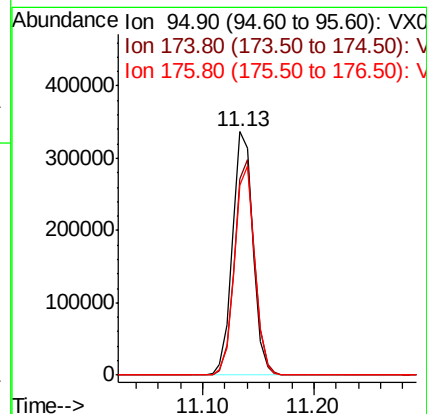
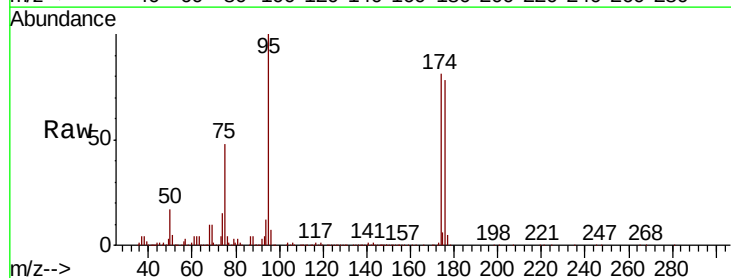
Tgt Ion: 95 Resp: 429464

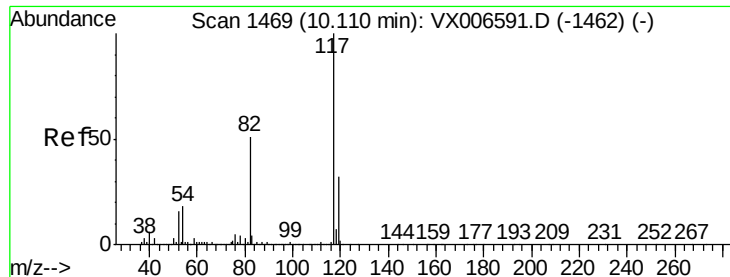
Ion Ratio Lower Upper

95 100

174 86.6 0.0 182.2

176 84.4 0.0 178.8

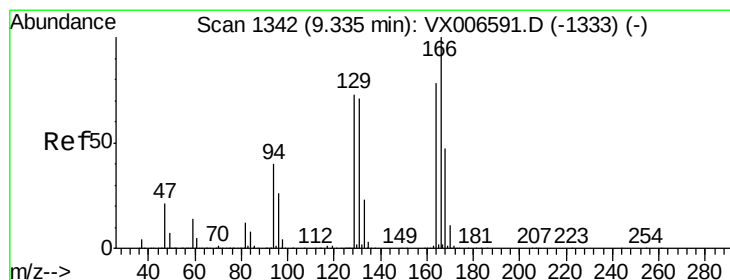
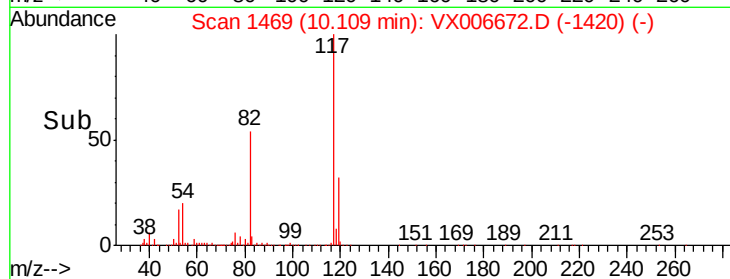
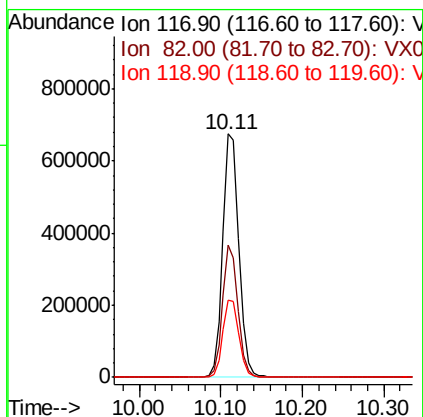
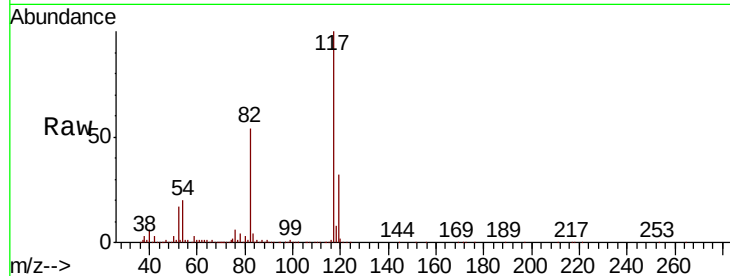




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX006672.D
Acq: 20 Dec 2018 13:34

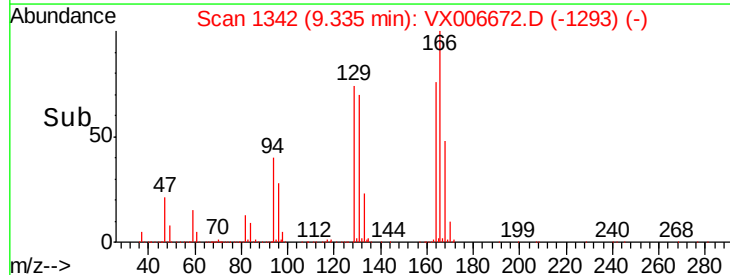
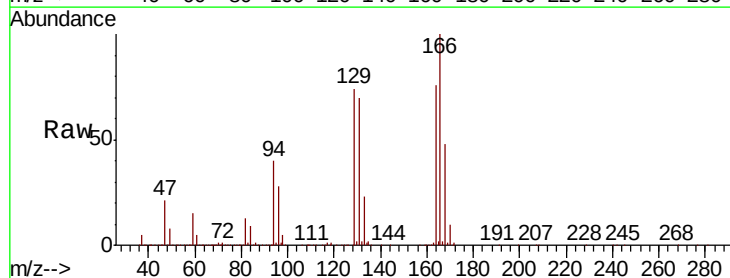
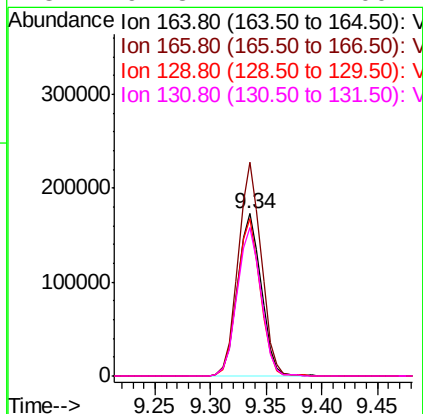
Instrument :
MSVOA_X
ClientSampleId :
967-MW-05(17)

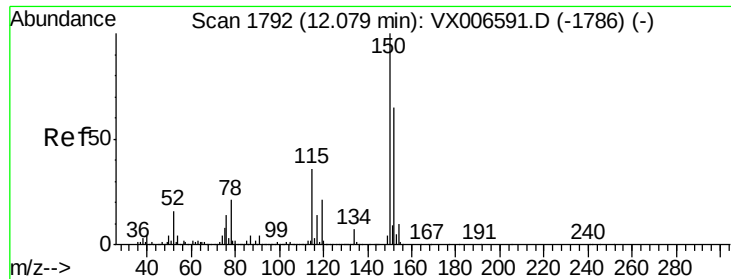
Tot Ion	Ratio	Lower	Upper
117	100		
82	54.3	41.0	61.6
119	31.5	25.4	38.0



#64
Tetrachloroethene
Concen: 34.755 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. -0.00 min
Lab File: VX006672.D
Acq: 20 Dec 2018 13:34

Tgt Ion	Ratio	Lower	Upper
164	100		
166	131.5	102.5	153.7
129	97.0	75.1	112.7
131	91.8	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: VX006672.D

Acq: 20 Dec 2018 13:34

Instrument :

MSVOA_X

ClientSampleId :

967-MW-05(17)

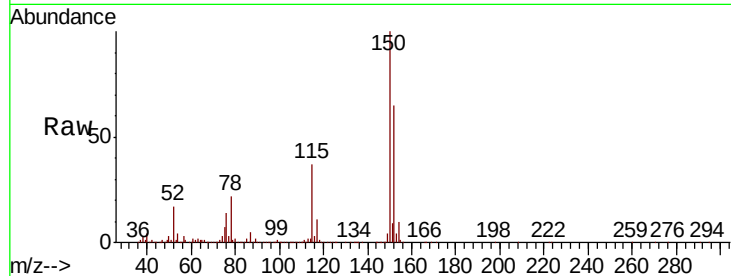
Tot Ion:152 Resp: 438799

Ion Ratio Lower Upper

152 100

115 56.5 39.1 117.2

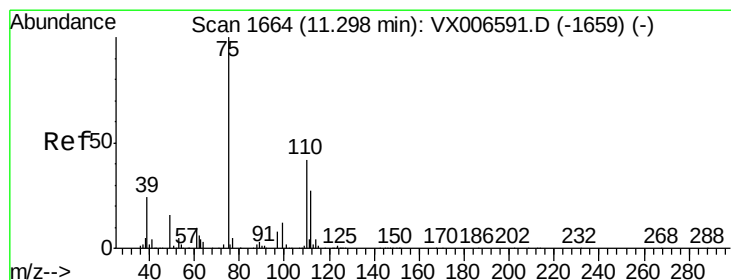
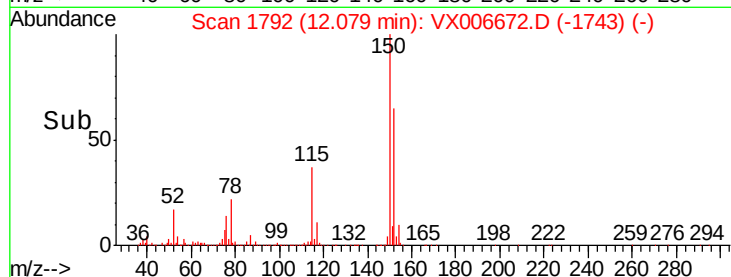
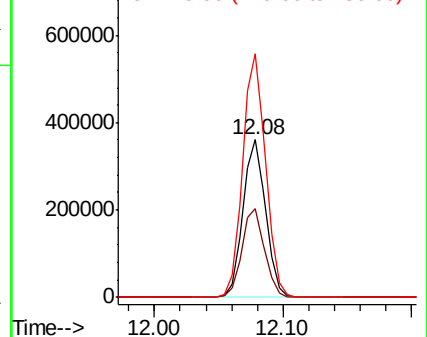
150 156.1 0.0 344.8



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: 24.677 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX006672.D

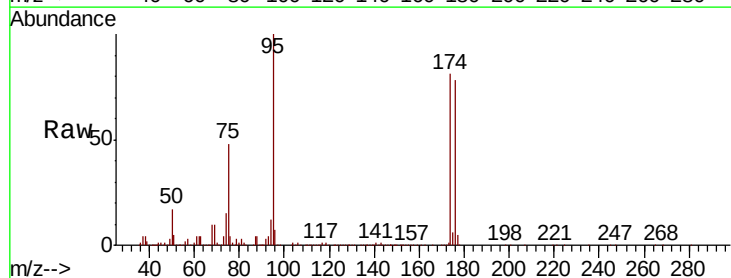
Acq: 20 Dec 2018 13:34

Tgt Ion: 75 Resp: 201237

Ion Ratio Lower Upper

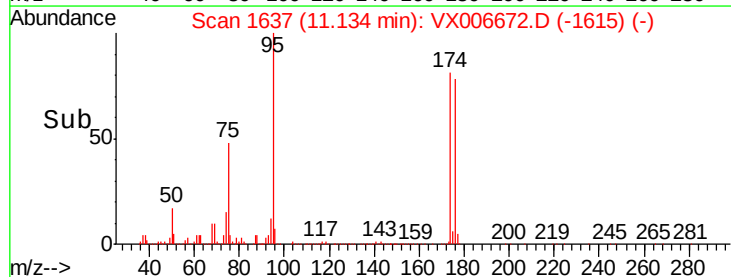
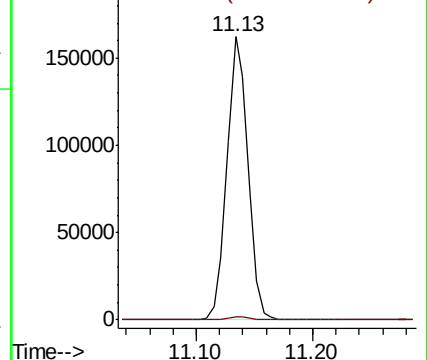
75 100

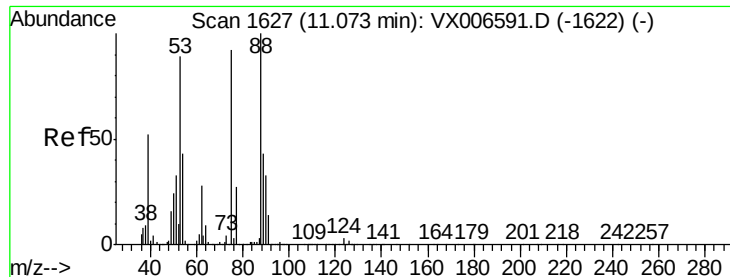
77 1.4 18.5 55.5#



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: 72.975 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX006672.D

Acq: 20 Dec 2018 13:34

Instrument :

MSVOA_X

ClientSampleId :

967-MW-05(17)

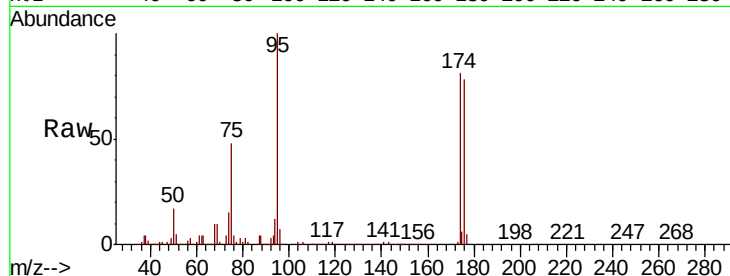
Tot Ion: 75 Resp: 201237

Ion Ratio Lower Upper

75 100

53 0.2 79.7 119.5#

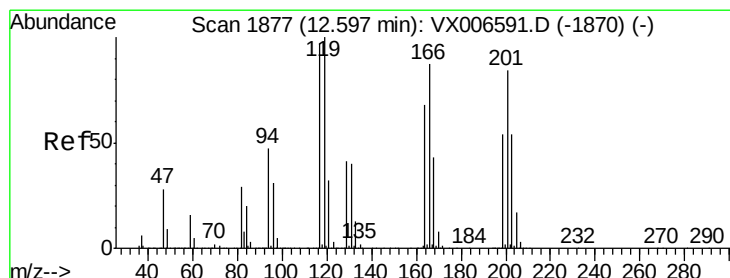
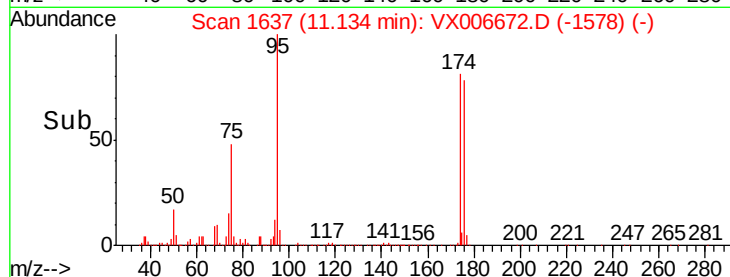
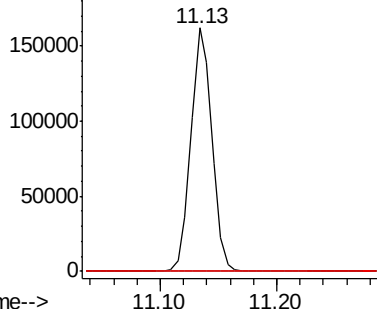
89 0.1 38.0 57.0#



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: 3.327 ug/l

RT: 12.54 min Scan# 1868

Delta R.T. -0.05 min

Lab File: VX006672.D

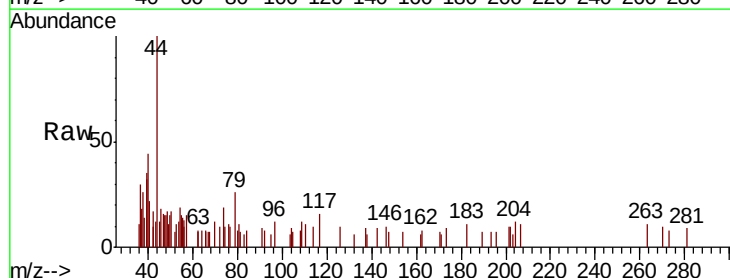
Acq: 20 Dec 2018 13:34

Tgt Ion: 117 Resp: 149

Ion Ratio Lower Upper

117 100

201 46.3 42.9 128.7



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

