

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX012119\
 Data File : VX007158.D
 Acq On : 21 Jan 2019 14:55
 Operator : JC/SP
 Sample : K1198-05
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SA-TW517-4246

Quant Time: Jan 22 00:07:01 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X010819W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jan 08 14:06:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	561168	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	865072	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	812316	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	407475	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.07	65	297773	50.77	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.54%	
35) Dibromofluoromethane	5.50	113	267072	48.21	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.42%	
50) Toluene-d8	8.71	98	1035071	51.04	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.08%	
62) 4-Bromofluorobenzene	11.13	95	372862	52.74	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.48%	

Target Compounds

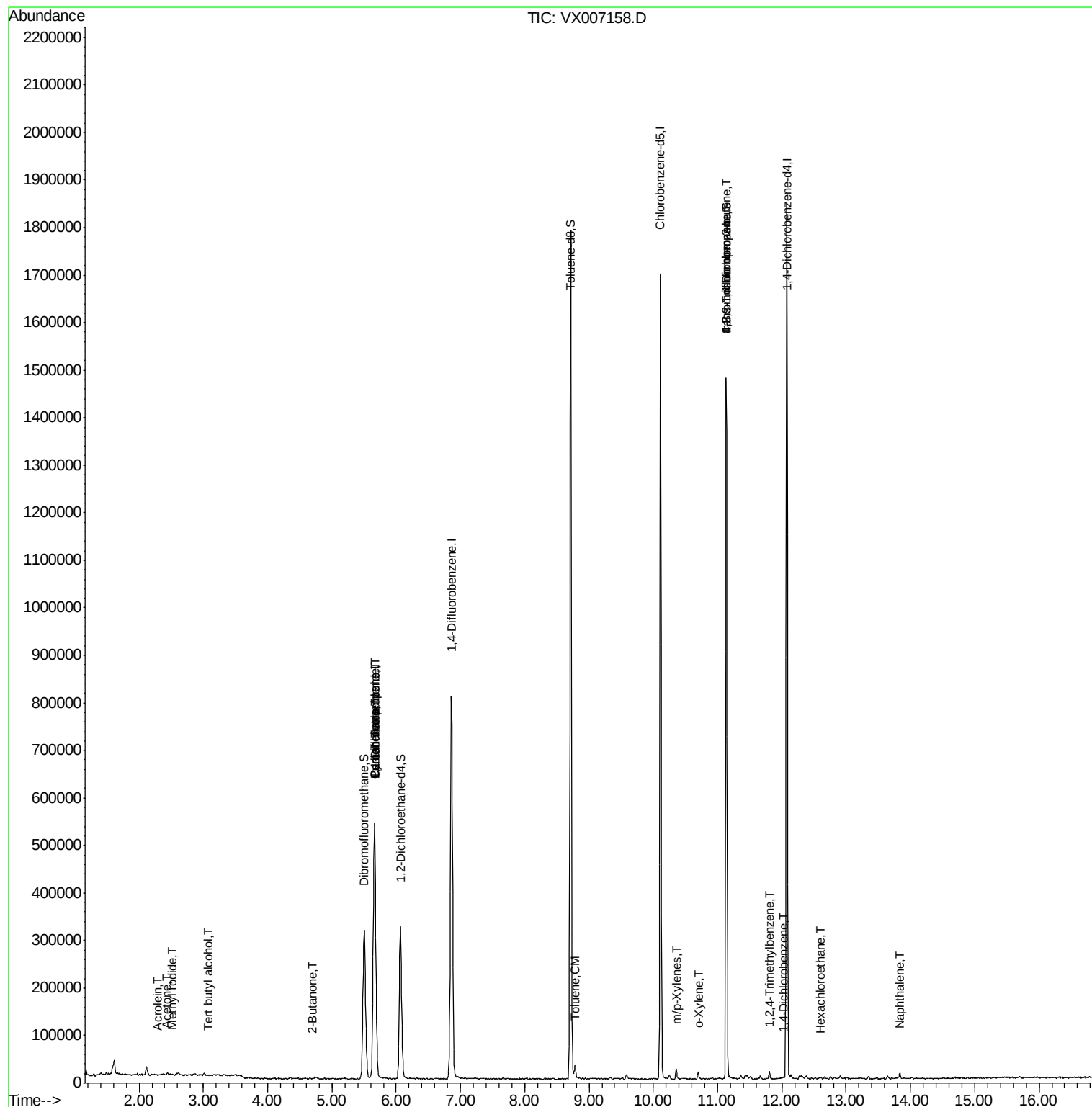
						Qvalue
10) Methyl Iodide	2.53	142	1513	0.201	ug/l #	72
11) Tert butyl alcohol	3.07	59	452	0.327	ug/l #	72
13) Acrolein	2.29	56	653	4.165	ug/l #	30
16) Acetone	2.44	43	5155	1.778	ug/l	92
20) Methylene Chloride	2.85	84	1399	Below Cal	#	57
25) 2-Butanone	4.71	43	1524	0.367	ug/l #	57
31) Cyclohexane	5.67	56	9361	1.132	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	33807	4.495	ug/l #	50
38) Carbon Tetrachloride	5.67	117	49829	6.585	ug/l #	13
49) 1,4-Dioxane	7.73	88	38	Below Cal	#	1
52) Toluene	8.79	92	9800	0.664	ug/l	94
68) m/p-Xylenes	10.36	106	5501	0.477	ug/l	97
69) o-Xylene	10.70	106	3398	0.302	ug/l	97
76) 1,2,3-Trichloropropane	11.13	75	176801	21.411	ug/l #	40
81) trans-1,4-Dichloro-2-buten	11.13	75	176801	63.511	ug/l #	10
84) 1,2,4-Trimethylbenzene	11.81	105	7291	0.302	ug/l	98
88) 1,4-Dichlorobenzene	12.02	146	805	0.204	ug/l	91
90) Hexachloroethane	12.60	117	553	3.036	ug/l #	6
95) Naphthalene	13.83	128	7530	0.256	ug/l #	95

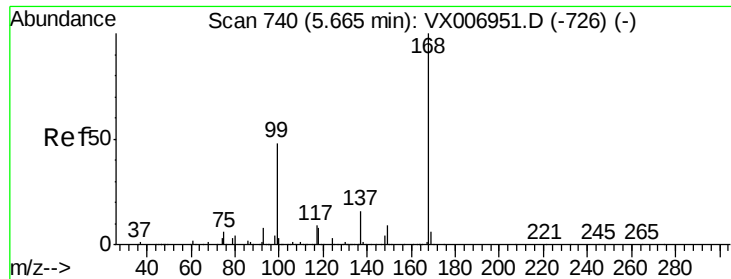
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX007158.D

Acq: 21 Jan 2019 14:55

Instrument :

MSVOA_X

ClientSampleId :

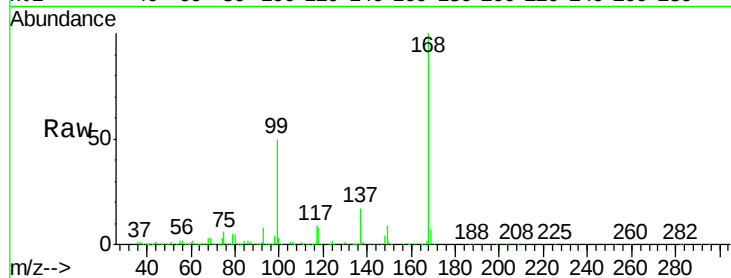
SA-TW517-4246

Tot Ion:168 Resp: 561168

Ion Ratio Lower Upper

168 100

99 49.9 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

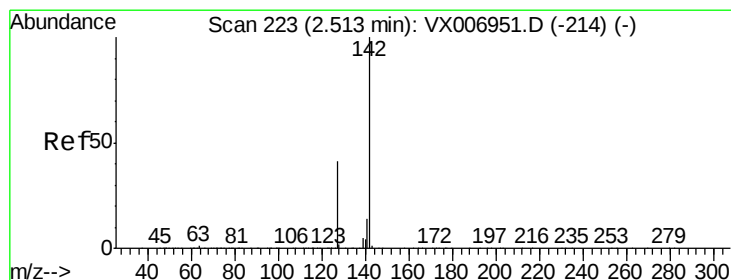
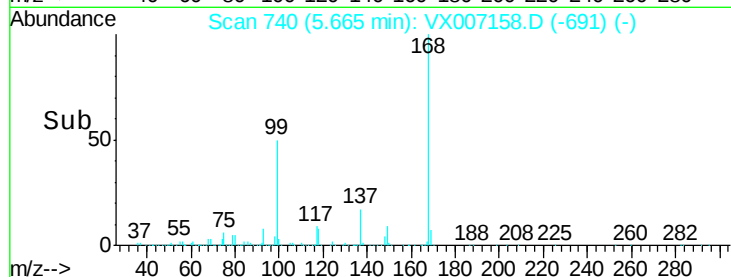
150000

100000

50000

0

Time-->



#10

Methyl Iodide

Concen: 0.201 ug/l

RT: 2.53 min Scan# 225

Delta R.T. 0.01 min

Lab File: VX007158.D

Acq: 21 Jan 2019 14:55

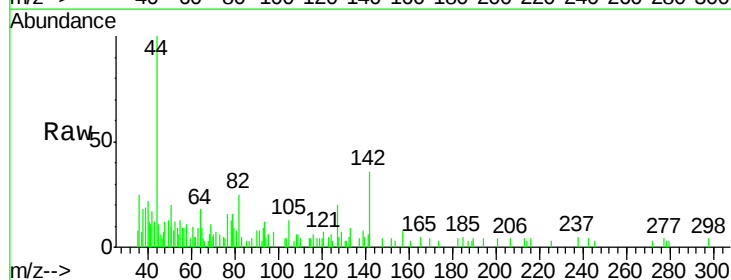
Tgt Ion:142 Resp: 1513

Ion Ratio Lower Upper

142 100

127 59.4 33.9 50.9#

141 27.0 11.4 17.0#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

2.53

800

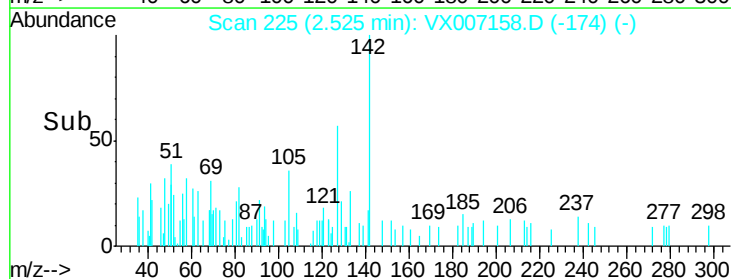
600

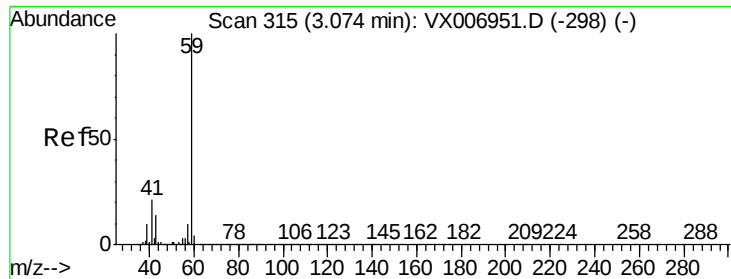
400

200

0

Time-->



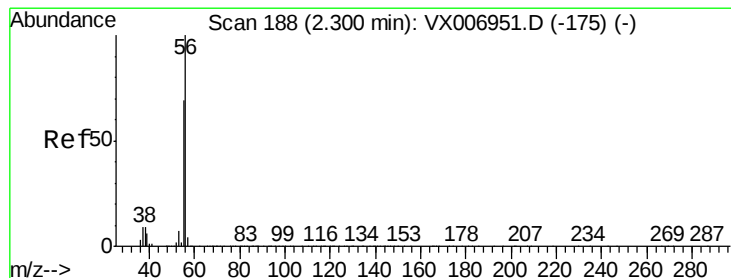
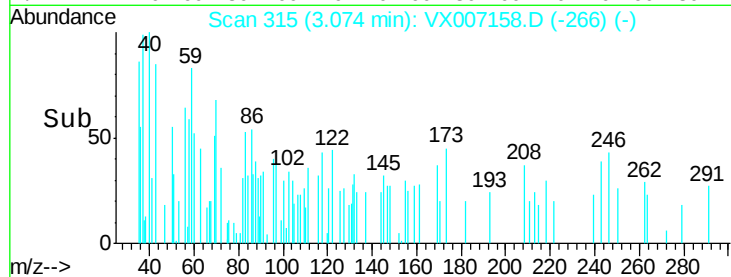
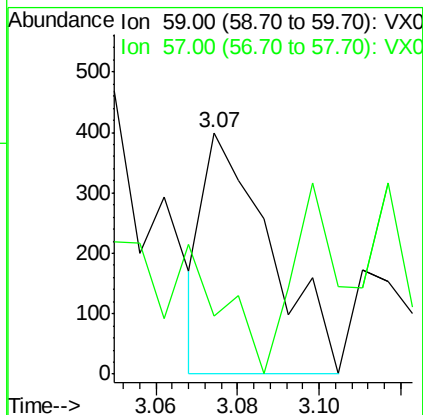
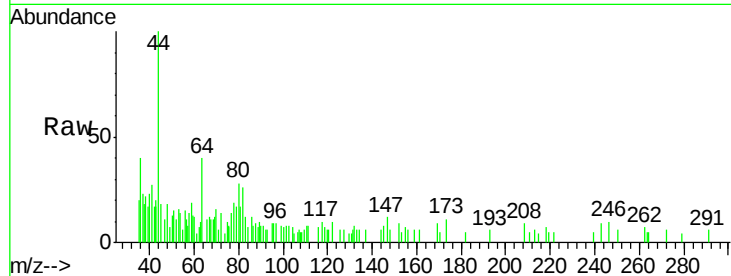


#11

Tert butyl alcohol
 Concen: 0.327 ug/l
 RT: 3.07 min Scan# 315
 Delta R.T. -0.00 min
 Lab File: VX007158.D
 Acq: 21 Jan 2019 14:55

Instrument :
 MSVOA_X
 ClientSampled :
 SA-TW517-4246

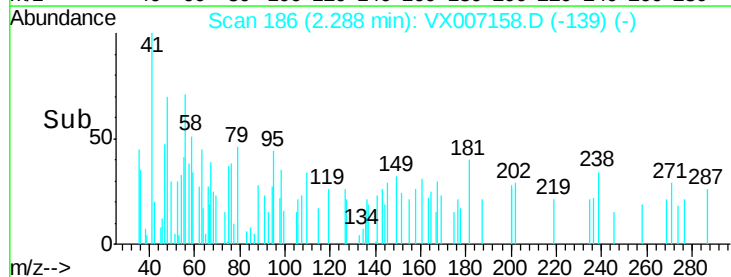
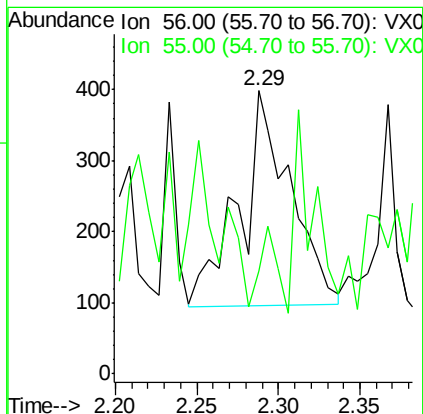
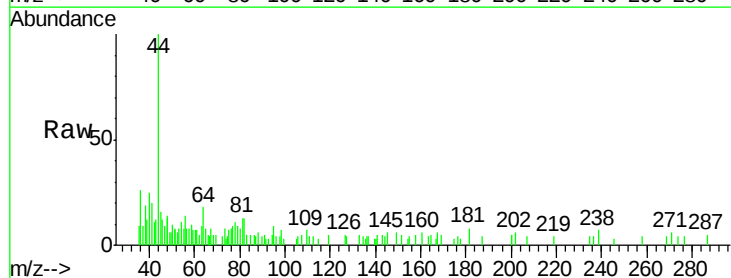
Tot Ion: 59 Resp: 452
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.5 12.7#

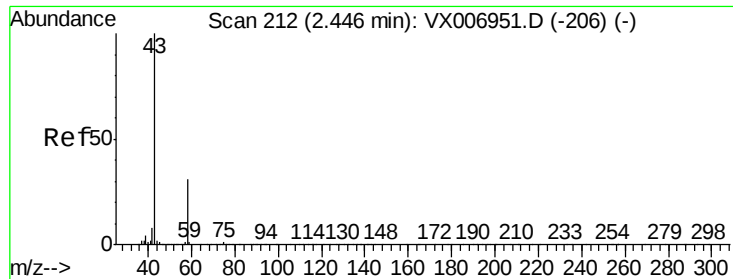


#13

Acrolein
 Concen: 4.165 ug/l
 RT: 2.29 min Scan# 186
 Delta R.T. -0.01 min
 Lab File: VX007158.D
 Acq: 21 Jan 2019 14:55

Tgt Ion: 56 Resp: 653
 Ion Ratio Lower Upper
 56 100
 55 13.8 58.2 87.4#

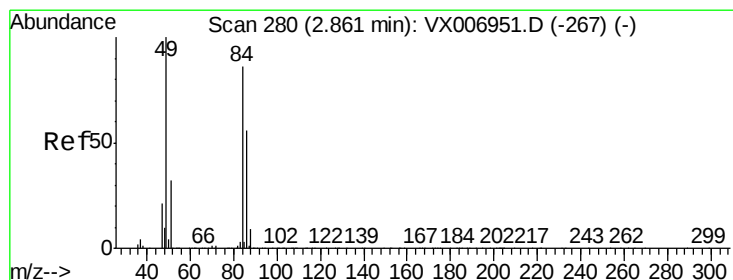
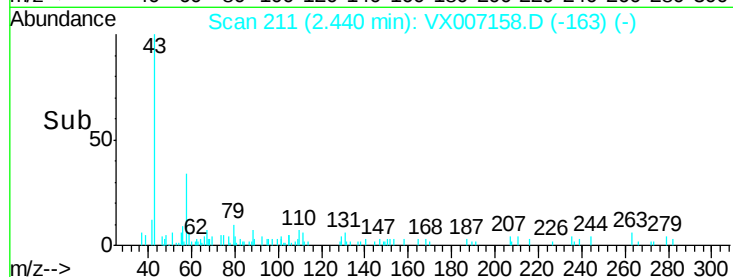
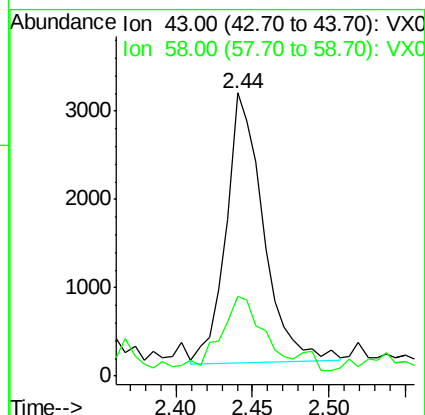
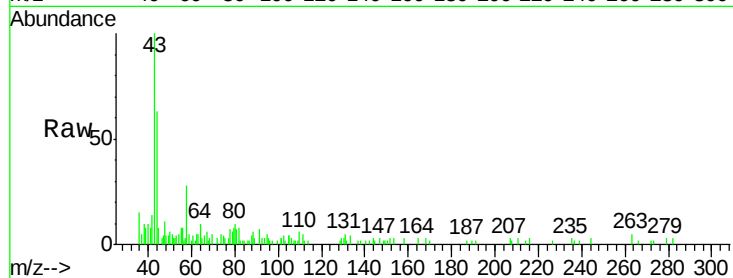




#16
Acetone
Concen: 1.778 ug/l
RT: 2.44 min Scan# 211
Delta R.T. -0.01 min
Lab File: VX007158.D
Acq: 21 Jan 2019 14:55

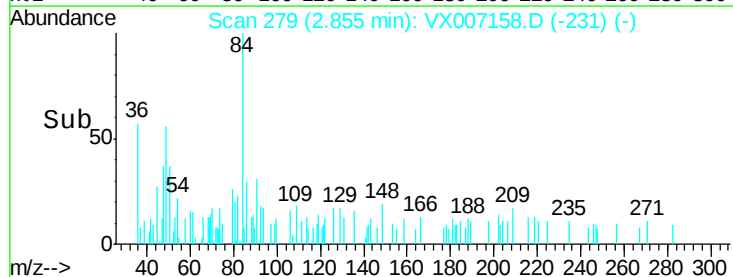
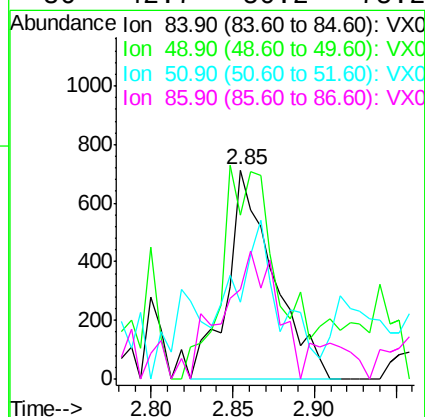
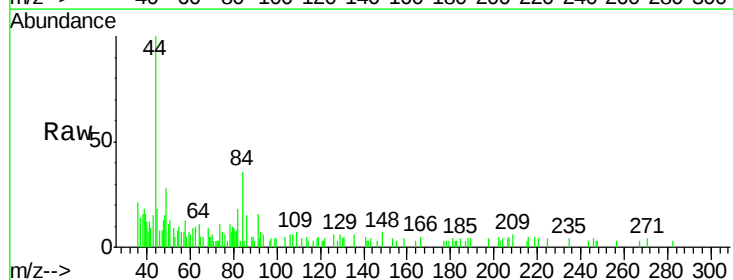
Instrument :
MSVOA_X
ClientSampleId :
SA-TW517-4246

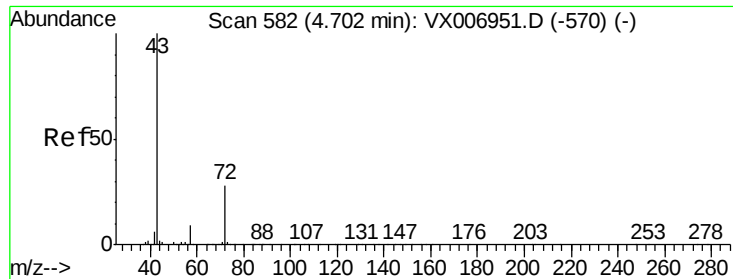
Tot Ion: 43 Resp: 5155
Ion Ratio Lower Upper
43 100
58 27.1 25.0 37.6



#20
Methylene Chloride
Concen: Below Cal
RT: 2.85 min Scan# 279
Delta R.T. -0.01 min
Lab File: VX007158.D
Acq: 21 Jan 2019 14:55

Tgt Ion: 84 Resp: 1399
Ion Ratio Lower Upper
84 100
49 63.0 91.8 137.6#
51 0.0 28.5 42.7#
86 42.7 50.2 75.2#





#25

2-Butanone

Concen: 0.367 ug/l

RT: 4.71 min Scan# 583

Delta R.T. 0.01 min

Lab File: VX007158.D

Acq: 21 Jan 2019 14:55

Instrument :

MSVOA_X

ClientSampleId :

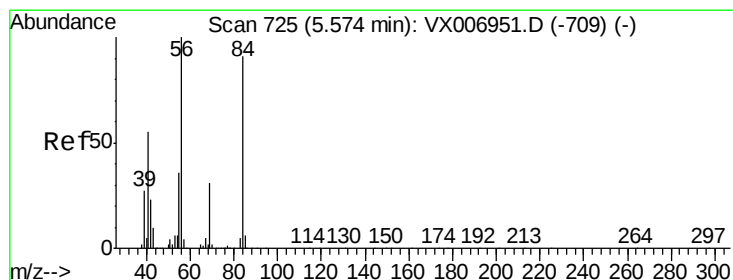
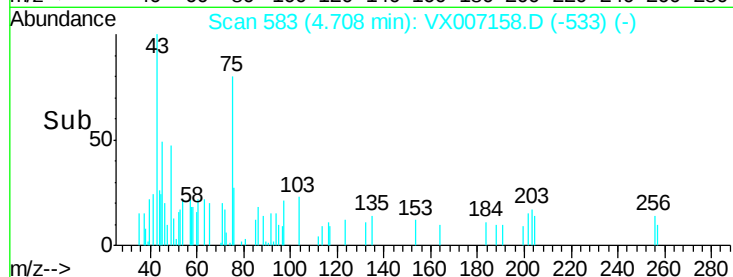
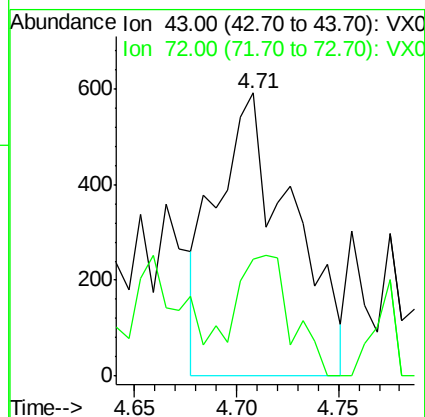
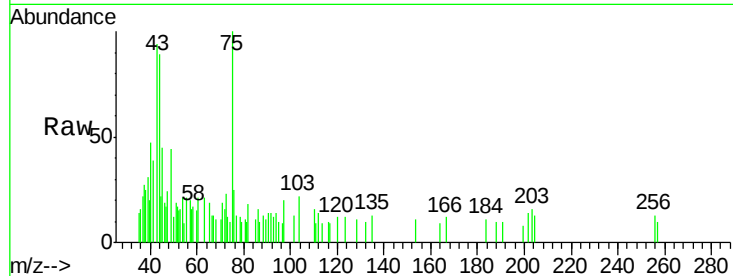
SA-TW517-4246

Tot Ion: 43 Resp: 1524

Ion Ratio Lower Upper

43 100

72 50.7 22.4 33.6#



#31

Cyclohexane

Concen: 1.132 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.09 min

Lab File: VX007158.D

Acq: 21 Jan 2019 14:55

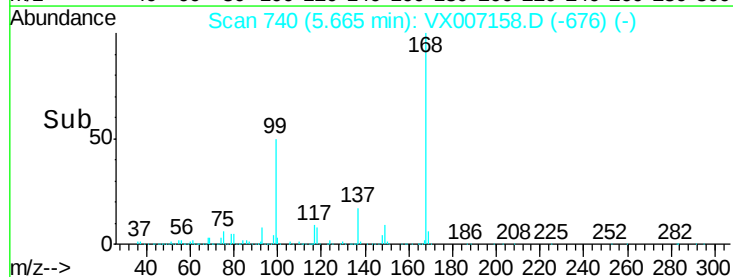
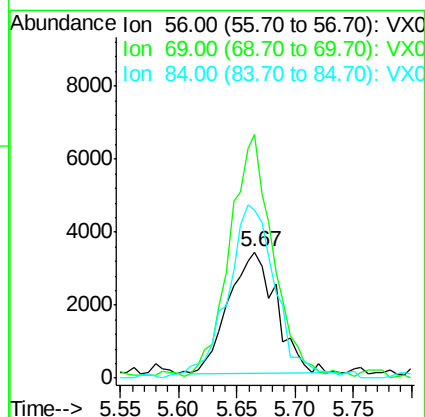
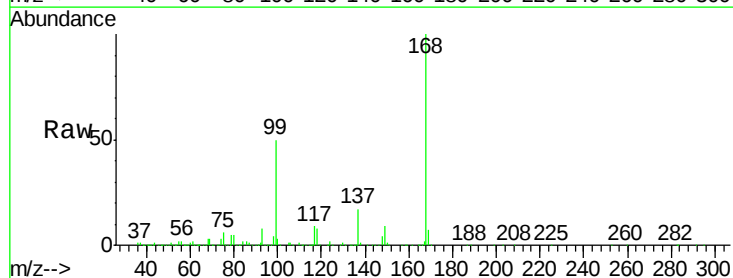
Tgt Ion: 56 Resp: 9361

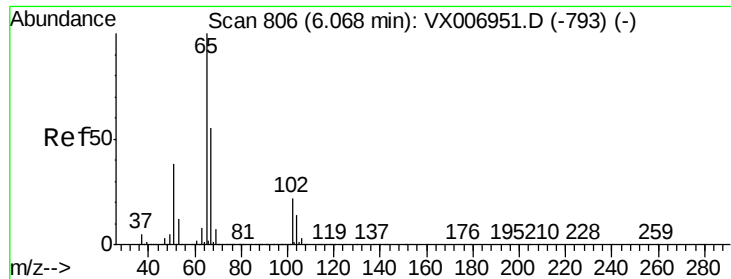
Ion Ratio Lower Upper

56 100

69 199.1 24.4 36.6#

84 136.7 70.0 105.0#





#33

1,2-Dichloroethane-d4

Concen: 50.774 ug/l

RT: 6.07 min Scan# 806

Delta R.T. -0.00 min

Lab File: VX007158.D

Acq: 21 Jan 2019 14:55

Instrument :

MSVOA_X

ClientSampleId :

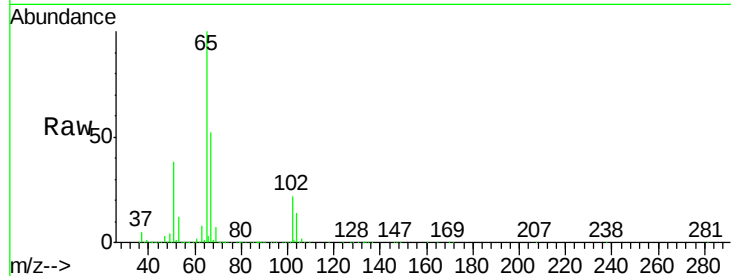
SA-TW517-4246

Tot Ion: 65 Resp: 297773

Ion Ratio Lower Upper

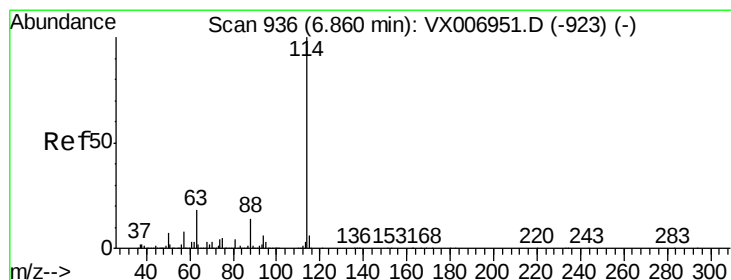
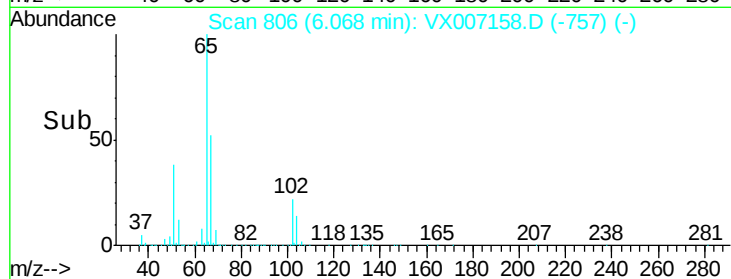
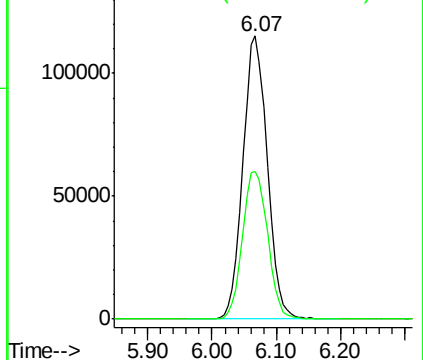
65 100

67 54.0 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: VX007158.D

Acq: 21 Jan 2019 14:55

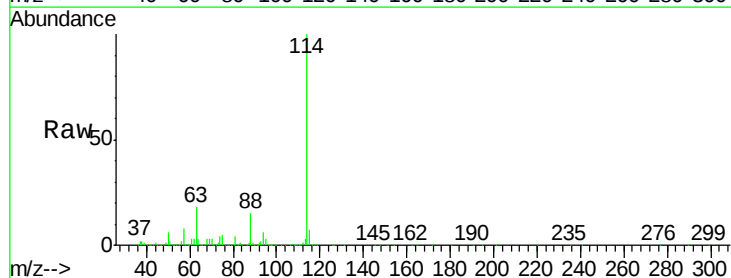
Tgt Ion: 114 Resp: 865072

Ion Ratio Lower Upper

114 100

63 18.1 0.0 34.8

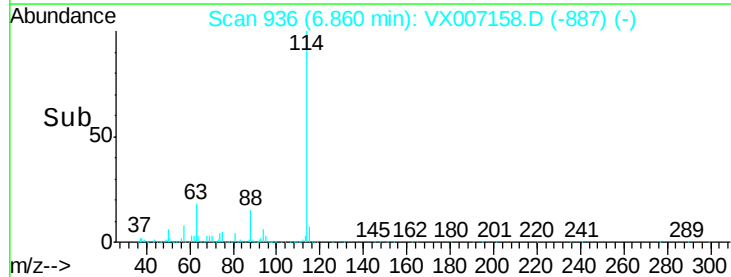
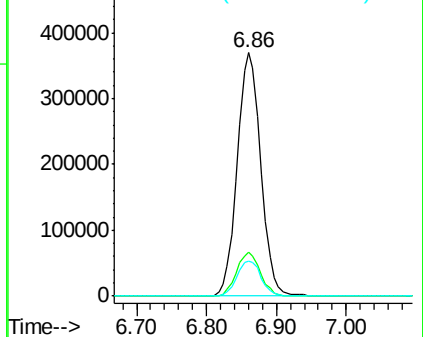
88 14.5 0.0 28.8

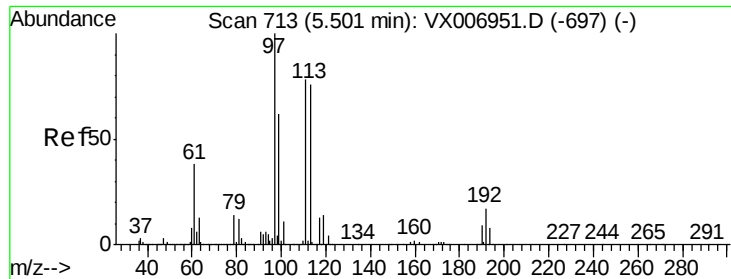


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 48.209 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX007158.D

Acq: 21 Jan 2019 14:55

Instrument :

MSVOA_X

ClientSampleId :

SA-TW517-4246

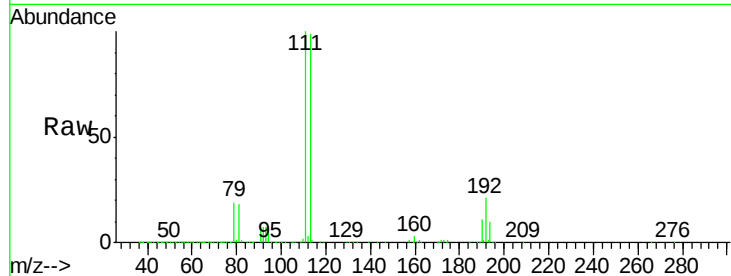
Tot Ion:113 Resp: 267072

Ion Ratio Lower Upper

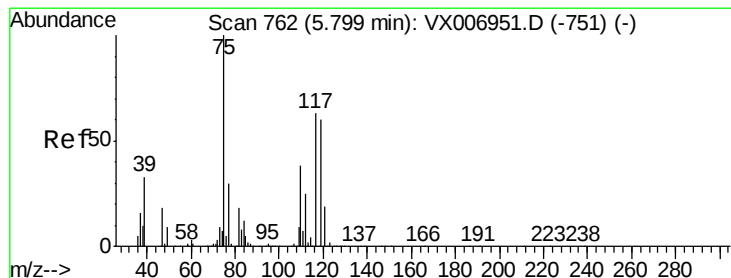
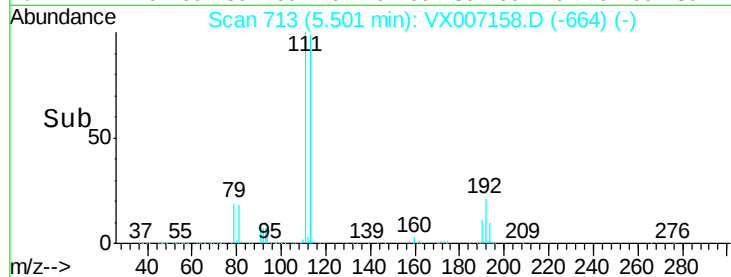
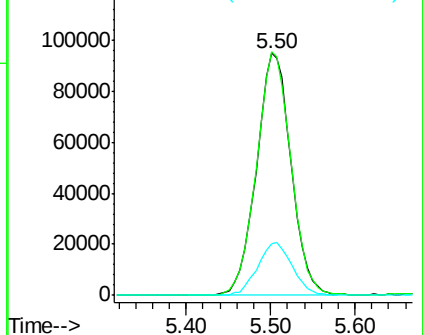
113 100

111 100.3 81.6 122.4

192 21.9 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: 4.495 ug/l

RT: 5.67 min Scan# 741

Delta R.T. -0.13 min

Lab File: VX007158.D

Acq: 21 Jan 2019 14:55

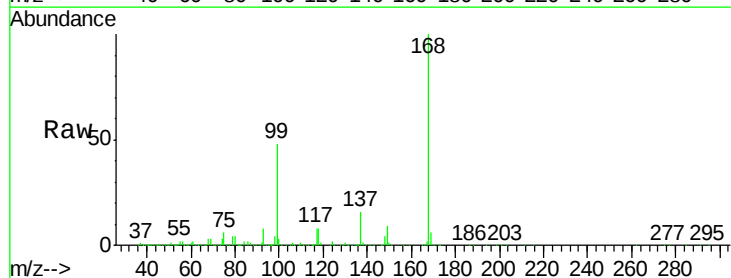
Tgt Ion: 75 Resp: 33807

Ion Ratio Lower Upper

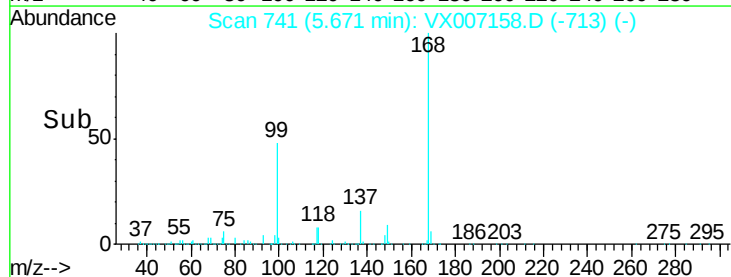
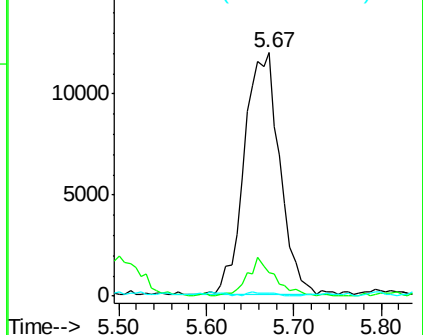
75 100

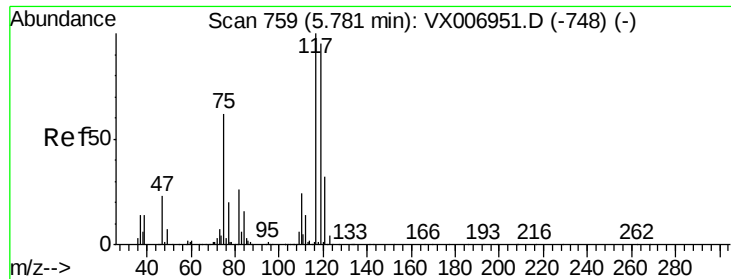
110 12.3 20.2 60.5#

77 0.6 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: 6.585 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX007158.D

Acq: 21 Jan 2019 14:55

Instrument :

MSVOA_X

ClientSampleId :

SA-TW517-4246

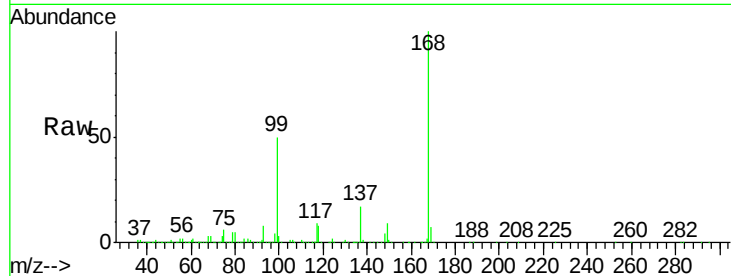
Tot Ion:117 Resp: 49829

Ion Ratio Lower Upper

117 100

119 3.4 79.4 119.2#

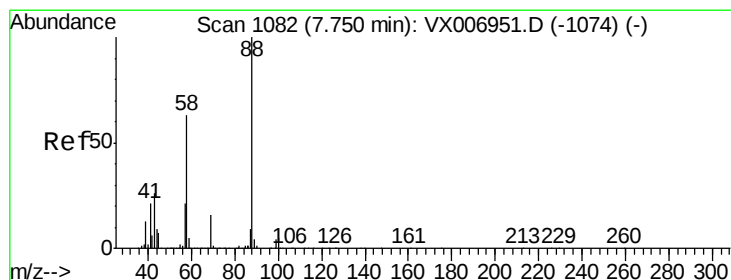
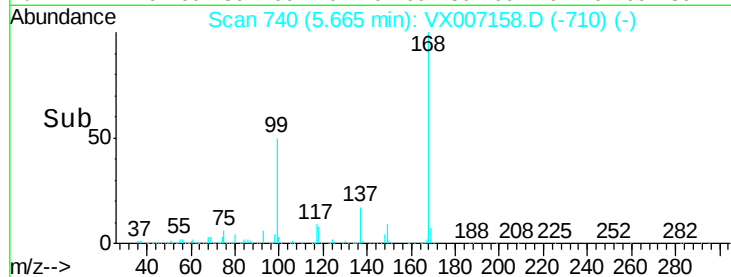
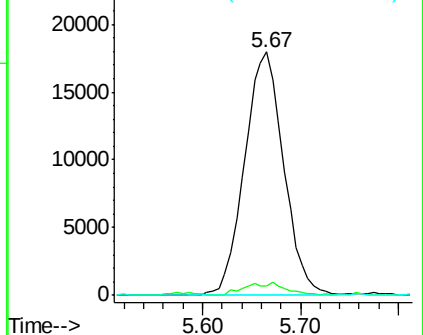
121 0.0 24.0 36.0#



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: 7.73 min Scan# 1079

Delta R.T. -0.02 min

Lab File: VX007158.D

Acq: 21 Jan 2019 14:55

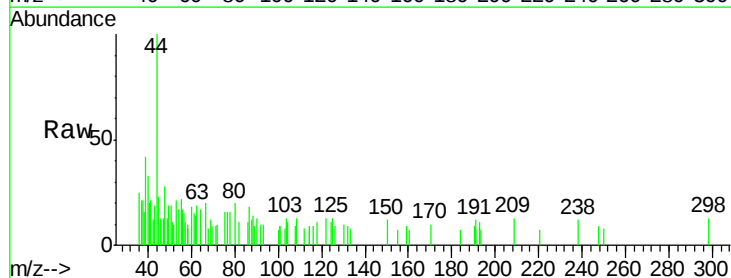
Tgt Ion: 88 Resp: 38

Ion Ratio Lower Upper

88 100

43 0.0 22.2 33.4#

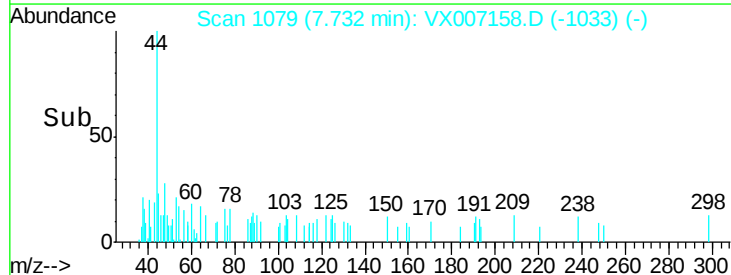
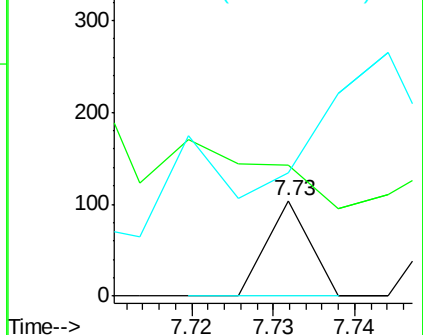
58 671.1 51.0 76.4#

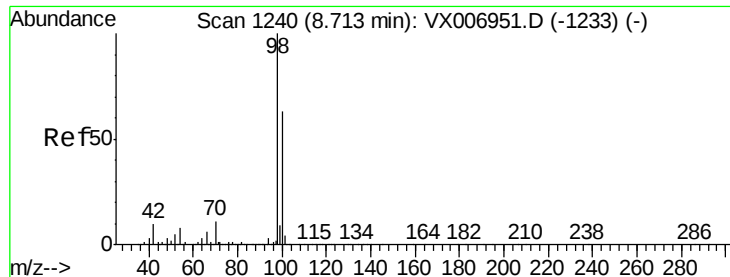


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 51.045 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX007158.D

Acq: 21 Jan 2019 14:55

Instrument :

MSVOA_X

ClientSampleId :

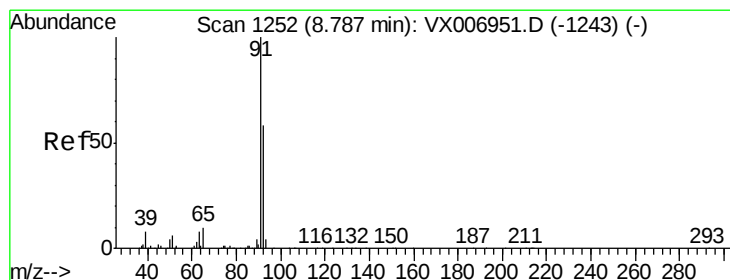
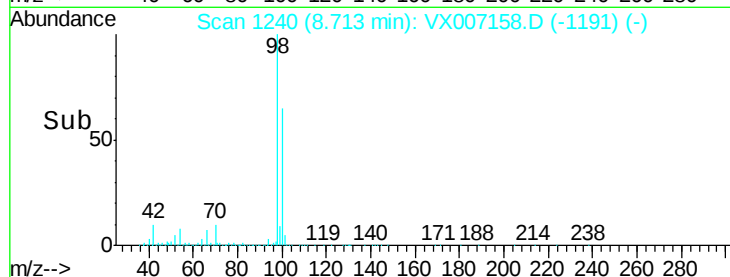
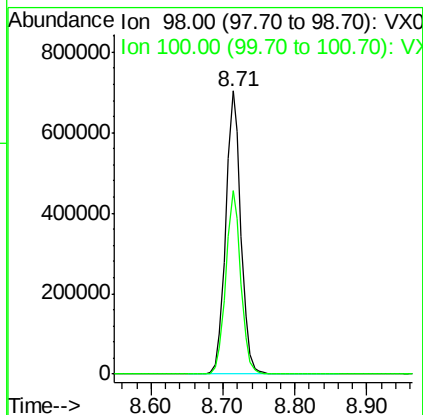
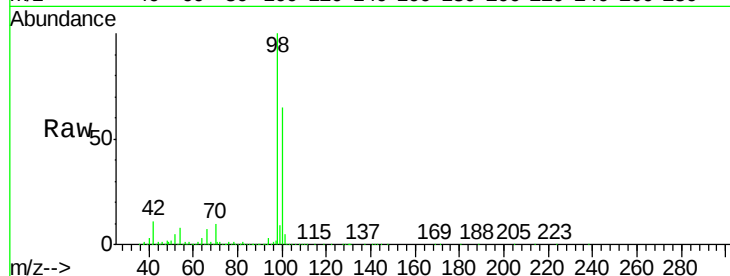
SA-TW517-4246

Tot Ion: 98 Resp: 1035071

Ion Ratio Lower Upper

98 100

100 64.3 52.0 78.0



#52

Toluene

Concen: 0.664 ug/l

RT: 8.79 min Scan# 1252

Delta R.T. -0.00 min

Lab File: VX007158.D

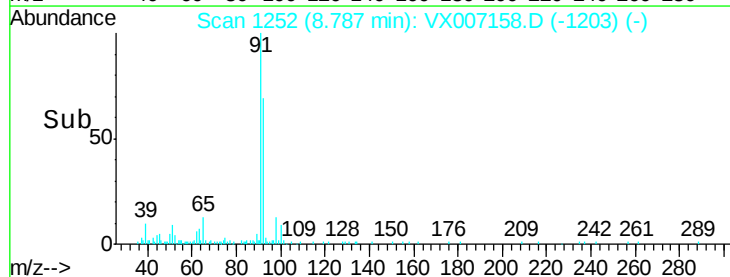
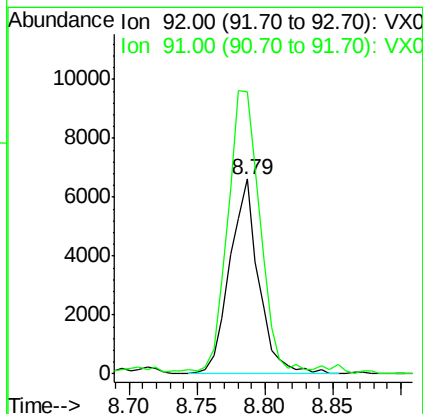
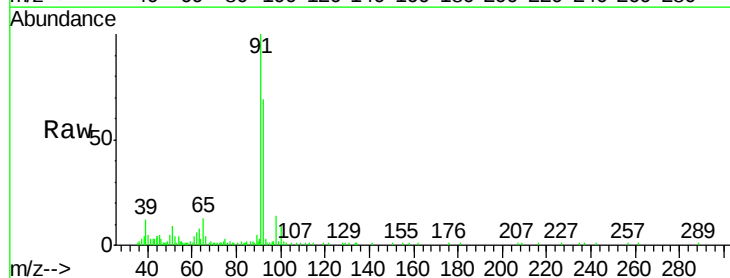
Acq: 21 Jan 2019 14:55

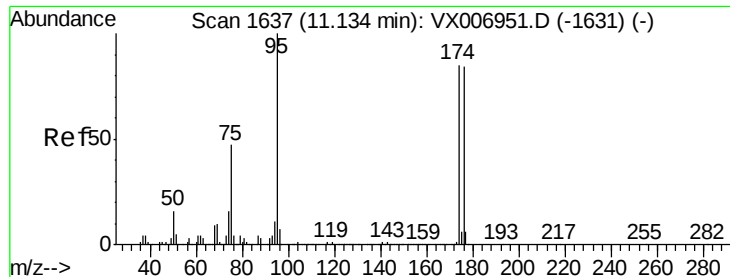
Tgt Ion: 92 Resp: 9800

Ion Ratio Lower Upper

92 100

91 164.0 137.6 206.4

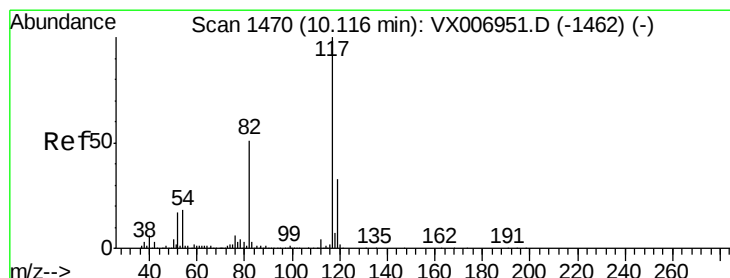
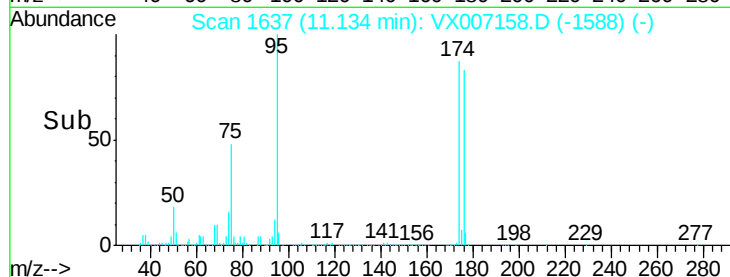
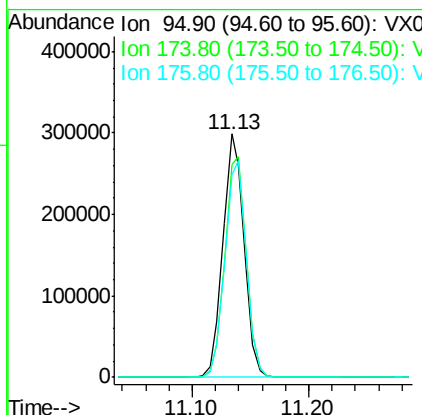
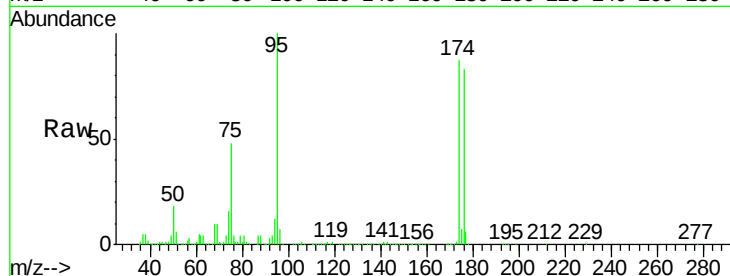




#62
4-Bromofluorobenzene
Concen: 52.744 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.00 min
Lab File: VX007158.D
Acq: 21 Jan 2019 14:55

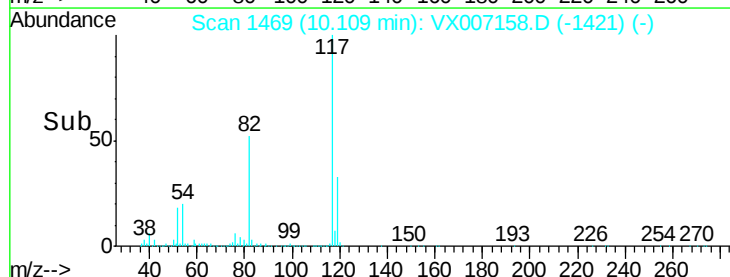
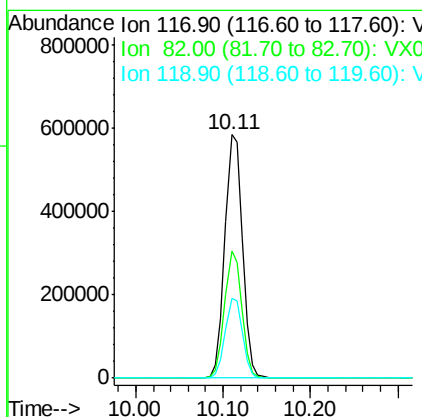
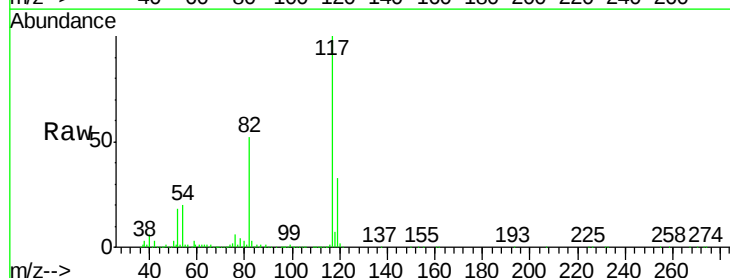
Instrument :
MSVOA_X
ClientSampleId :
SA-TW517-4246

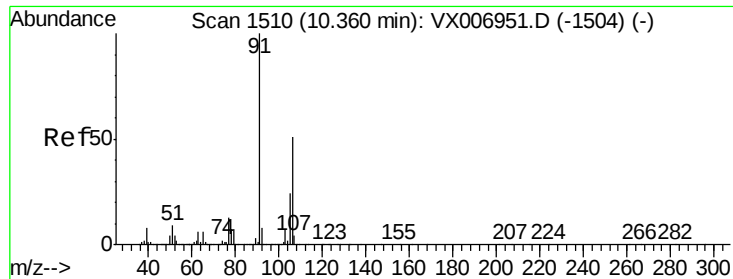
Tot Ion: 95 Resp: 372862
Ion Ratio Lower Upper
95 100
174 93.0 0.0 182.2
176 90.6 0.0 178.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.01 min
Lab File: VX007158.D
Acq: 21 Jan 2019 14:55

Tgt Ion: 117 Resp: 812316
Ion Ratio Lower Upper
117 100
82 52.4 41.0 61.6
119 32.6 25.4 38.0





#68

m/p-Xylenes

Concen: 0.477 ug/l

RT: 10.36 min Scan# 1510

Delta R.T. -0.00 min

Lab File: VX007158.D

Acq: 21 Jan 2019 14:55

Instrument :

MSVOA_X

ClientSampleId :

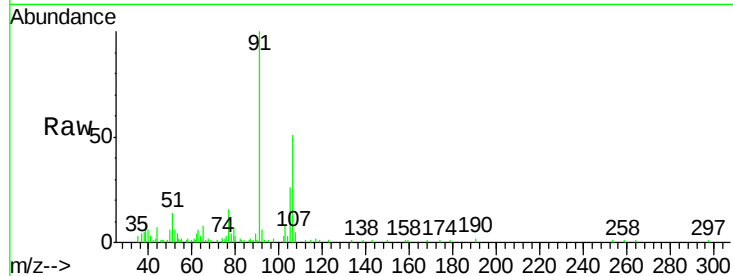
SA-TW517-4246

Tot Ion:106 Resp: 5501

Ion Ratio Lower Upper

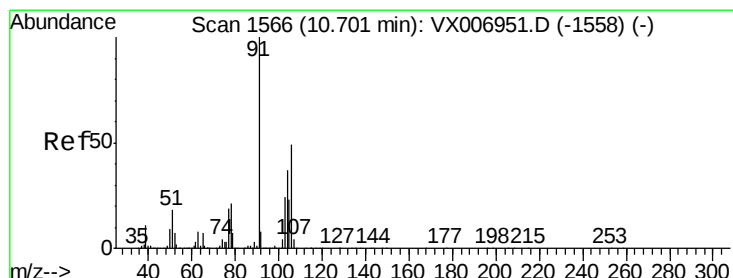
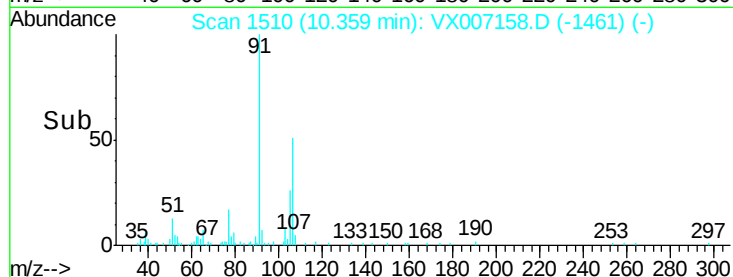
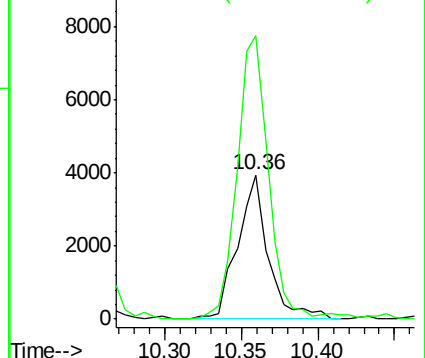
106 100

91 198.9 155.8 233.6



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VX0



#69

o-Xylene

Concen: 0.302 ug/l

RT: 10.70 min Scan# 1566

Delta R.T. -0.00 min

Lab File: VX007158.D

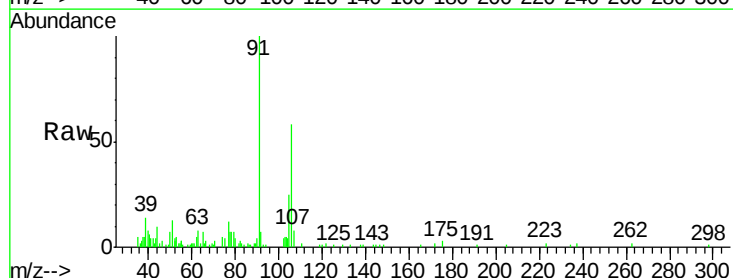
Acq: 21 Jan 2019 14:55

Tgt Ion:106 Resp: 3398

Ion Ratio Lower Upper

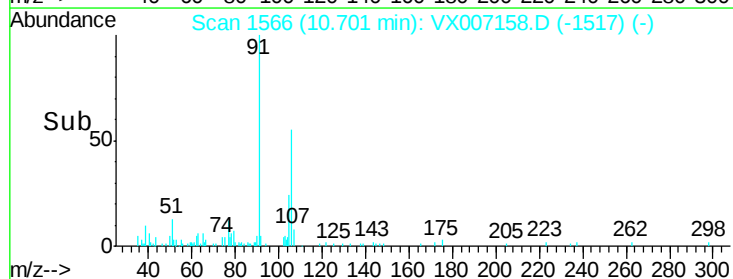
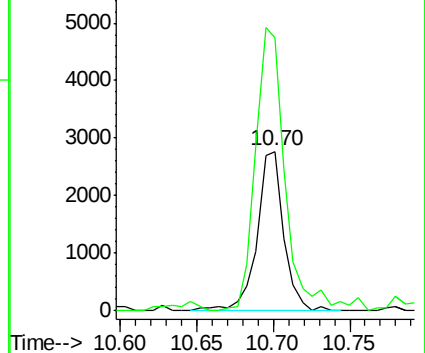
106 100

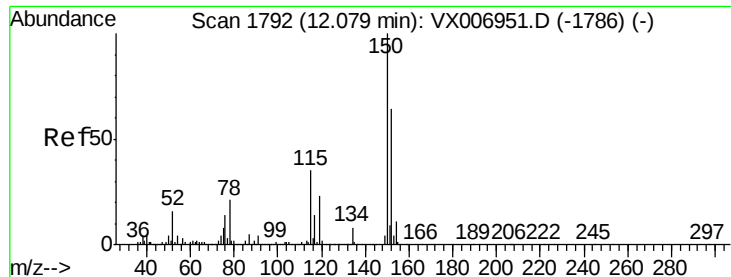
91 197.3 101.3 303.7



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VX0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX007158.D

Acq: 21 Jan 2019 14:55

Instrument :

MSVOA_X

ClientSampleId :

SA-TW517-4246

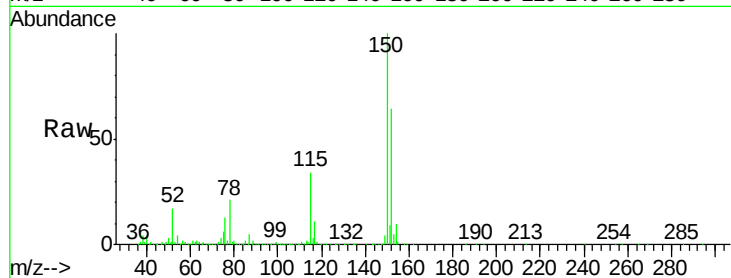
Tot Ion:152 Resp: 407475

Ion Ratio Lower Upper

152 100

115 53.9 39.1 117.2

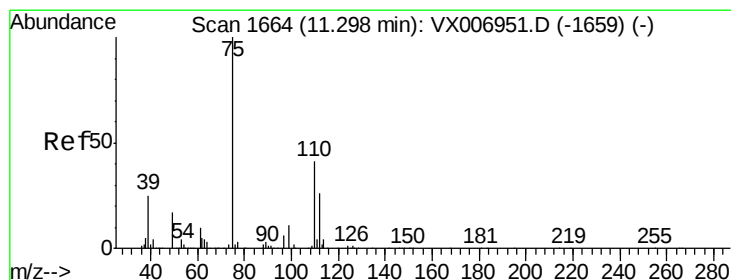
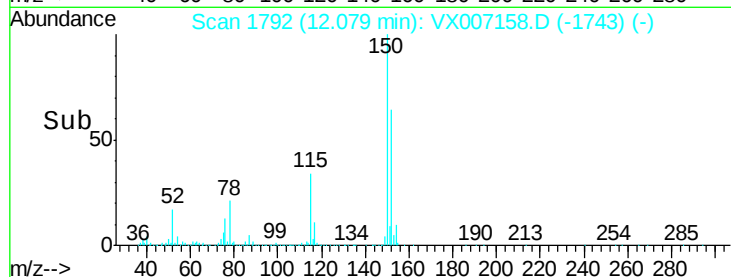
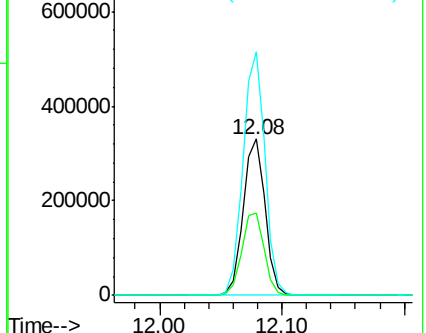
150 156.2 0.0 344.8



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: 21.411 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX007158.D

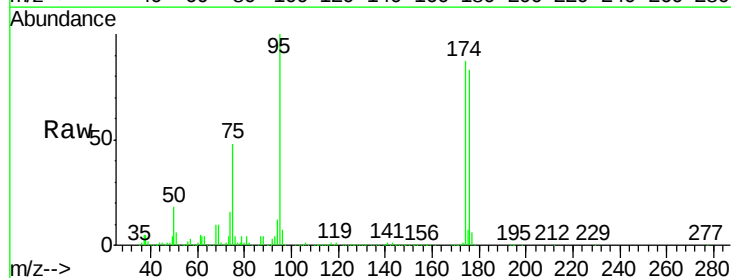
Acq: 21 Jan 2019 14:55

Tgt Ion: 75 Resp: 176801

Ion Ratio Lower Upper

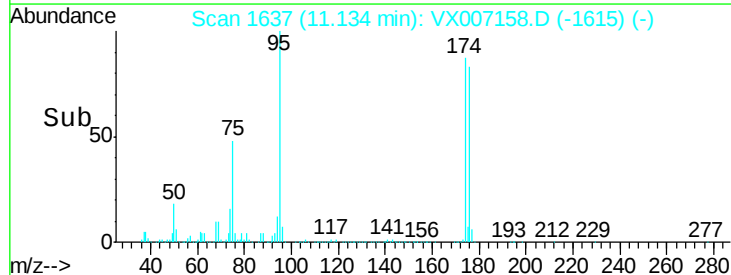
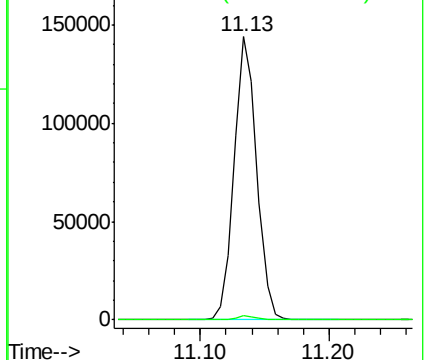
75 100

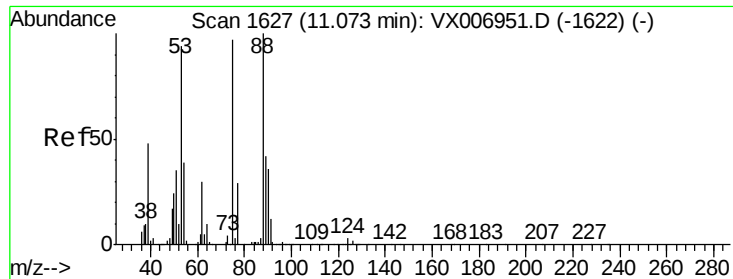
77 1.3 18.5 55.5#



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: 63.511 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX007158.D

Acq: 21 Jan 2019 14:55

Instrument :

MSVOA_X

ClientSampleId :

SA-TW517-4246

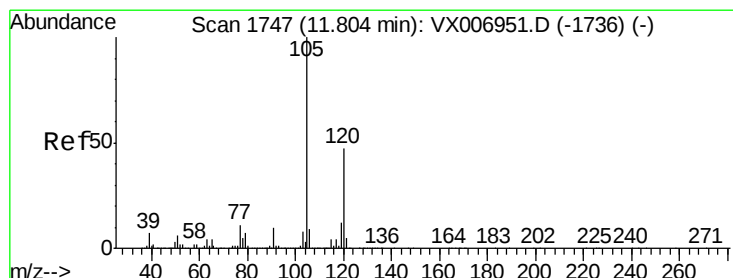
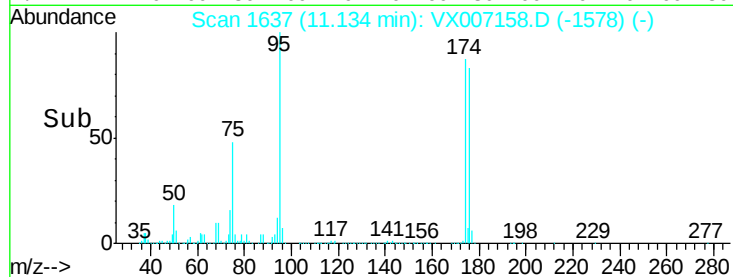
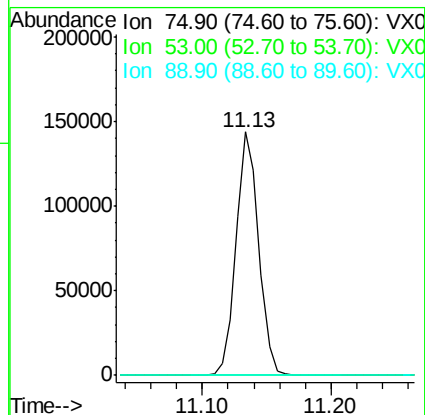
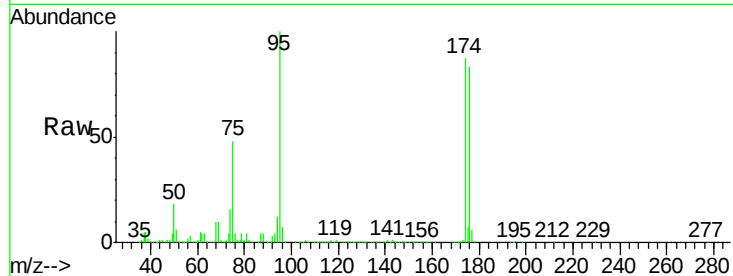
Tot Ion: 75 Resp: 176801

Ion Ratio Lower Upper

75 100

53 0.1 79.7 119.5#

89 0.1 38.0 57.0#



#84

1,2,4-Trimethylbenzene

Concen: 0.302 ug/l

RT: 11.81 min Scan# 1748

Delta R.T. 0.01 min

Lab File: VX007158.D

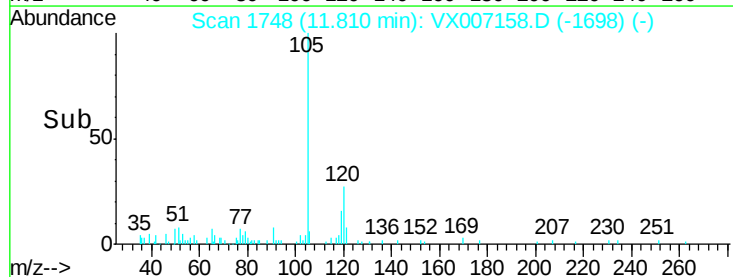
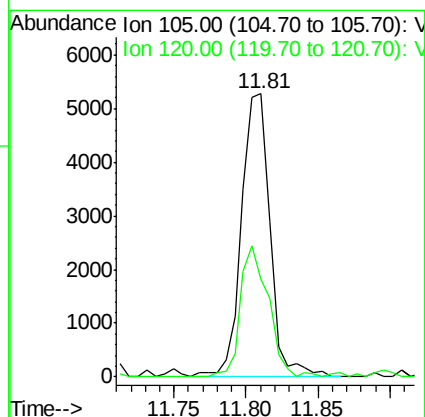
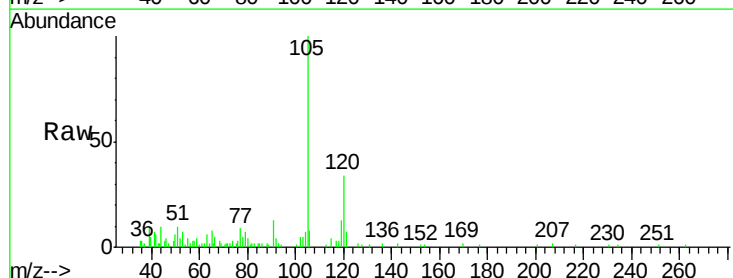
Acq: 21 Jan 2019 14:55

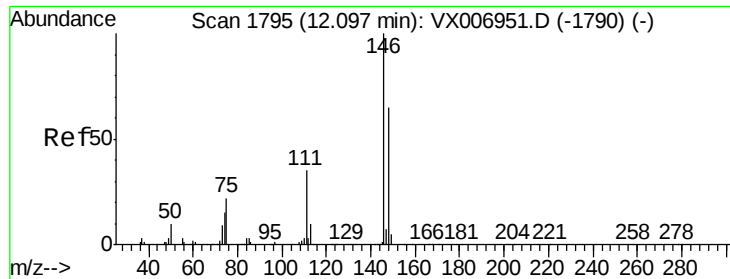
Tgt Ion: 105 Resp: 7291

Ion Ratio Lower Upper

105 100

120 45.1 23.2 69.6





#88

1,4-Dichlorobenzene

Concen: 0.204 ug/l

RT: 12.02 min Scan# 1783

Delta R.T. -0.07 min

Lab File: VX007158.D

Acq: 21 Jan 2019 14:55

Instrument :

MSVOA_X

ClientSampleId :

SA-TW517-4246

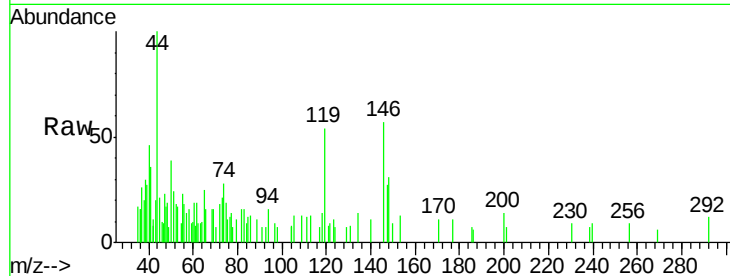
Tot Ion:146 Resp: 805

Ion Ratio Lower Upper

146 100

111 30.9 18.1 54.1

148 70.8 31.9 95.9

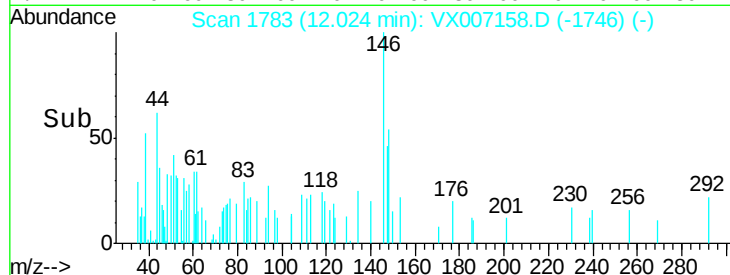


Abundance Ion 145.90 (145.60 to 146.60): V

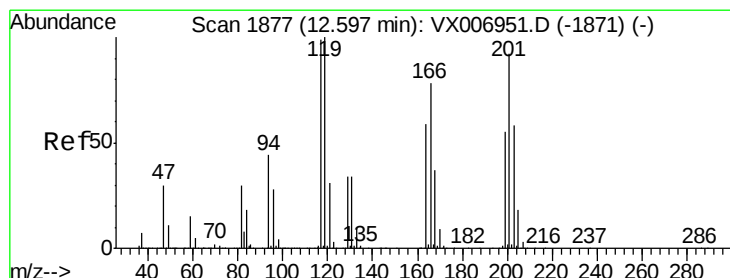
Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

Time-->



Time-->



#90

Hexachloroethane

Concen: 3.036 ug/l

RT: 12.60 min Scan# 1877

Delta R.T. 0.00 min

Lab File: VX007158.D

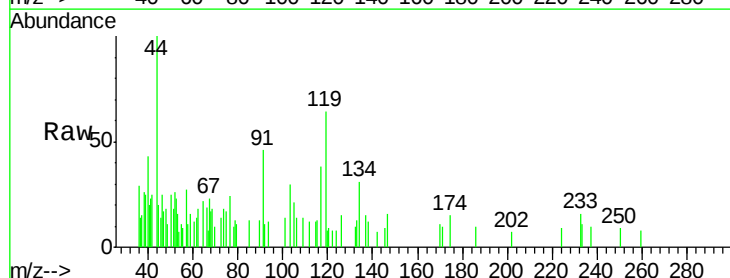
Acq: 21 Jan 2019 14:55

Tgt Ion:117 Resp: 553

Ion Ratio Lower Upper

117 100

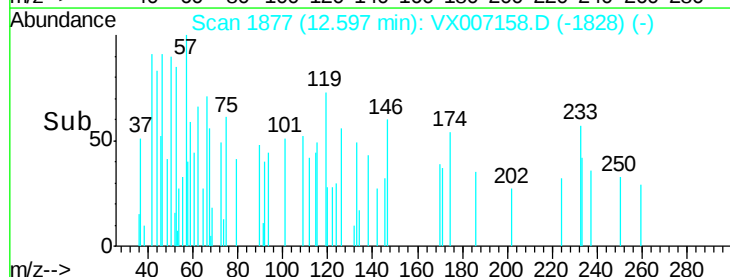
201 0.0 42.9 128.7#



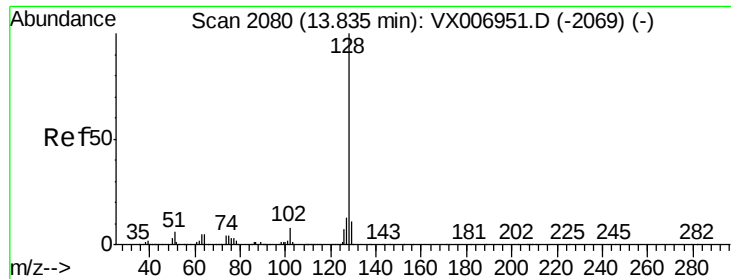
Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

Time-->



Time-->



#95
Naphthalene
Concen: 0.256 ug/l
RT: 13.83 min Scan# 2080
Delta R.T. -0.00 min
Lab File: VX007158.D
Acq: 21 Jan 2019 14:55

Instrument :
MSVOA_X
ClientSampleId :
SA-TW517-4246

Tot Ion	Ratio	Lower	Upper
128	100		
127	15.8	10.1	15.1#
129	10.7	8.6	13.0

