

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX012119\
 Data File : VX007160.D
 Acq On : 21 Jan 2019 15:48
 Operator : JC/SP
 Sample : K1198-08
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SA-TW518-2327

Quant Time: Jan 22 00:07:31 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	564727	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	863409	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	816735	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	405805	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	302358	51.23	ug/l	0.00
Spiked Amount			Recovery	=	102.46%	
35) Dibromofluoromethane	5.50	113	270772	48.97	ug/l	0.00
Spiked Amount			Recovery	=	97.94%	
50) Toluene-d8	8.71	98	1038036	51.29	ug/l	0.00
Spiked Amount			Recovery	=	102.58%	
62) 4-Bromofluorobenzene	11.13	95	374751	53.11	ug/l	0.00
Spiked Amount			Recovery	=	106.22%	

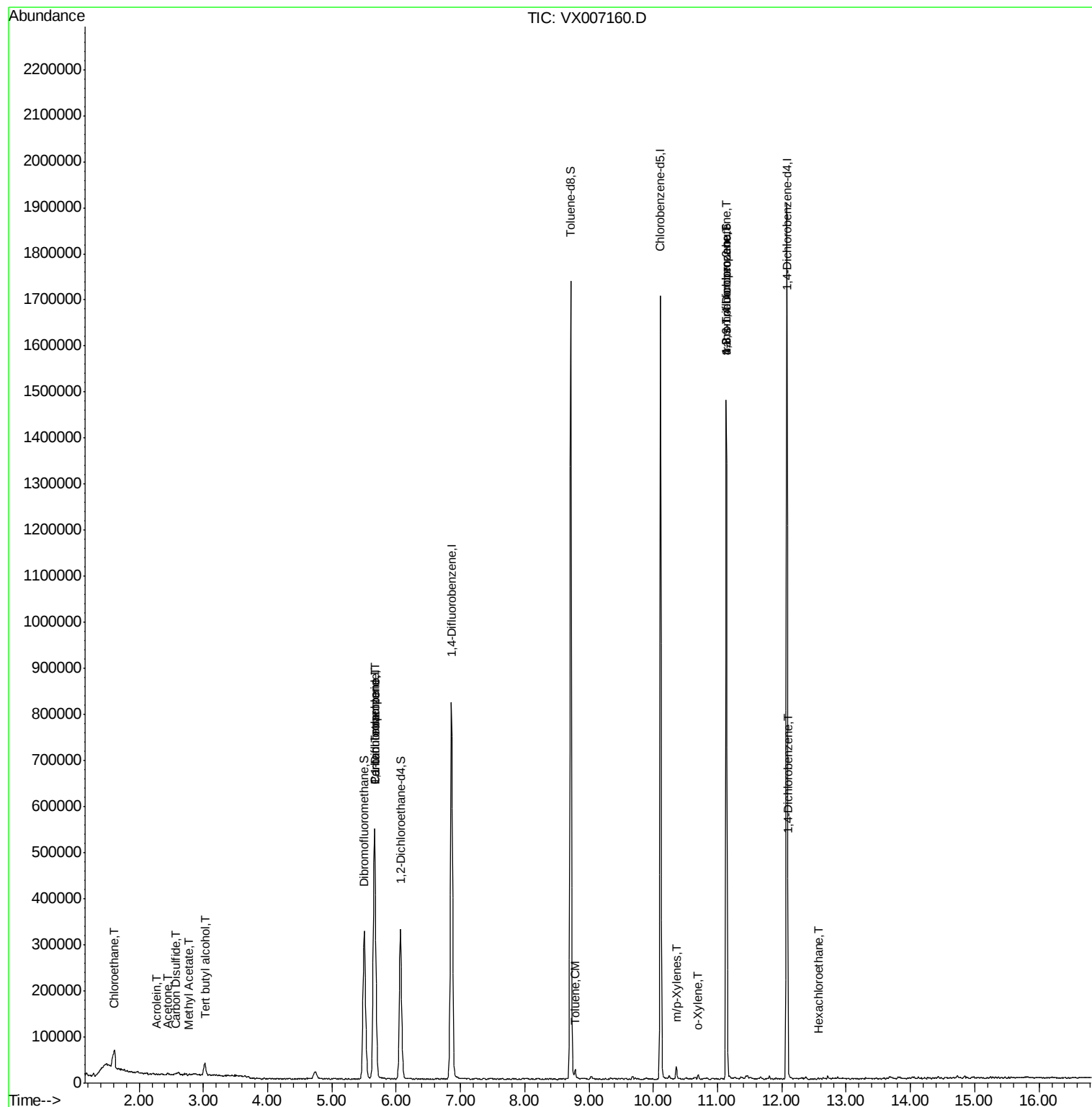
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) Chloroethane	1.60	64	28466	7.020	ug/l #	44
11) Tert butyl alcohol	3.02	59	16419	11.793	ug/l #	74
13) Acrolein	2.28	56	273	3.533	ug/l #	13
16) Acetone	2.44	43	4564	1.564	ug/l	91
17) Carbon Disulfide	2.57	76	3339	0.250	ug/l #	70
18) Methyl Acetate	2.78	43	2604	0.308	ug/l #	52
20) Methylene Chloride	2.86	84	1238	Below Cal	#	77
36) 1,1-Dichloropropene	5.67	75	36471	4.859	ug/l #	49
38) Carbon Tetrachloride	5.66	117	50970	6.749	ug/l #	14
49) 1,4-Dioxane	7.74	88	95	Below Cal	#	1
52) Toluene	8.79	92	6057	0.411	ug/l	99
68) m/p-Xylenes	10.36	106	6135	0.530	ug/l	86
69) o-Xylene	10.69	106	2504	0.222	ug/l	95
76) 1,2,3-Trichloropropane	11.13	75	177869	21.629	ug/l #	40
81) trans-1,4-Dichloro-2-buten	11.13	75	177869	64.119	ug/l #	10
88) 1,4-Dichlorobenzene	12.10	146	1019	0.220	ug/l #	26
90) Hexachloroethane	12.56	117	109	2.933	ug/l	62

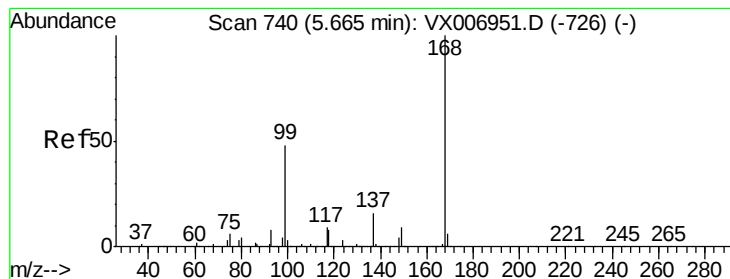
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX007160.D

Acq: 21 Jan 2019 15:48

Instrument :

MSVOA_X

ClientSampleId :

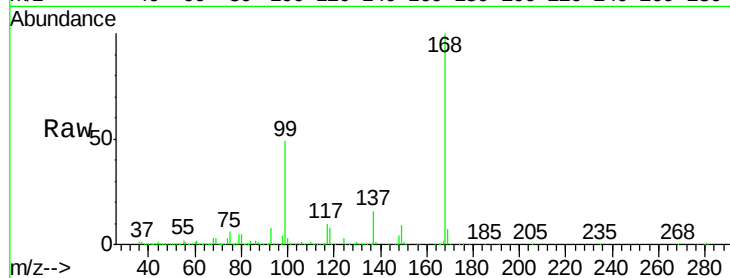
SA-TW518-2327

Tot Ion:168 Resp: 564727

Ion Ratio Lower Upper

168 100

99 48.5 41.8 62.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

200000

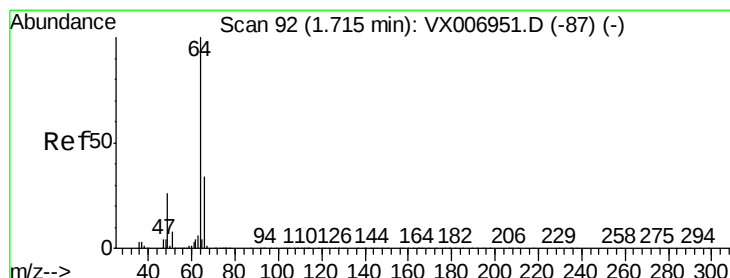
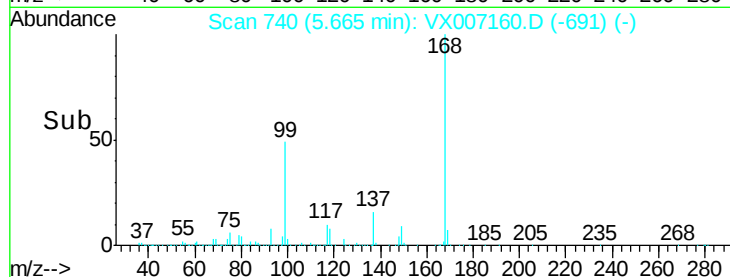
150000

100000

50000

0

Time-->



#6

Chloroethane

Concen: 7.020 ug/l

RT: 1.60 min Scan# 73

Delta R.T. -0.12 min

Lab File: VX007160.D

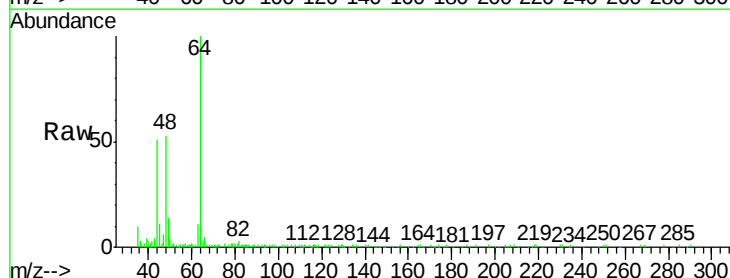
Acq: 21 Jan 2019 15:48

Tgt Ion: 64 Resp: 28466

Ion Ratio Lower Upper

64 100

66 1.3 26.4 39.6#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.60

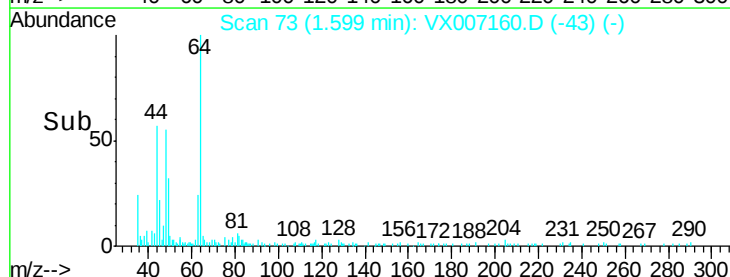
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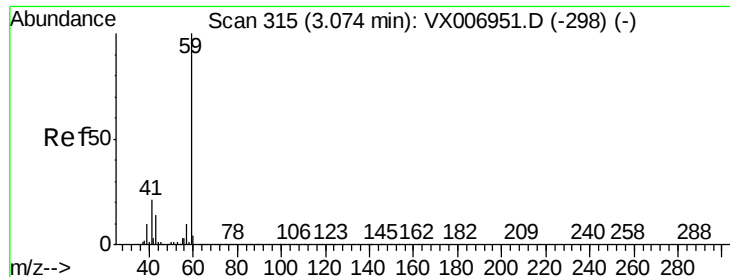
10000

5000

0

Time-->



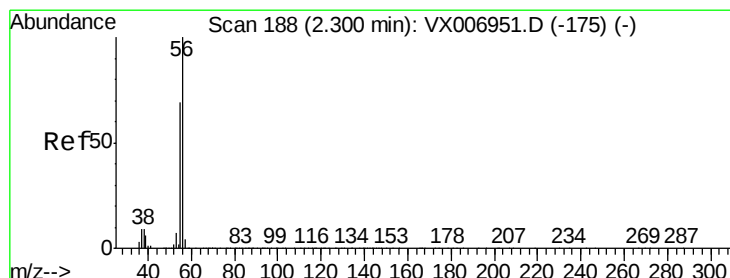
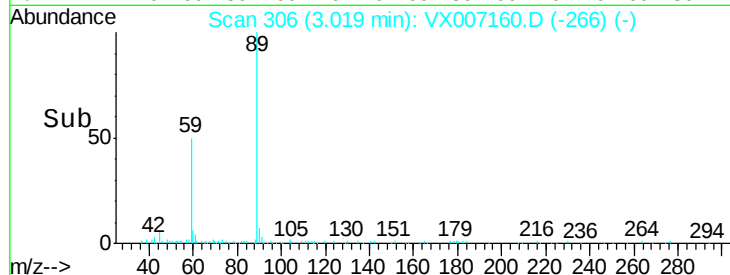
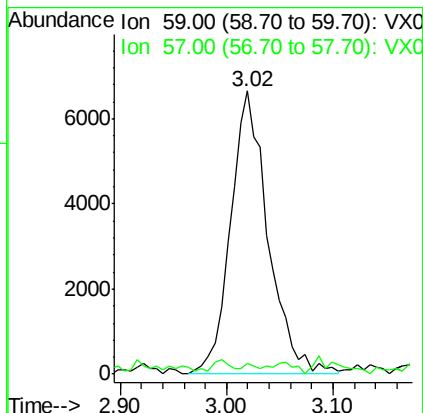
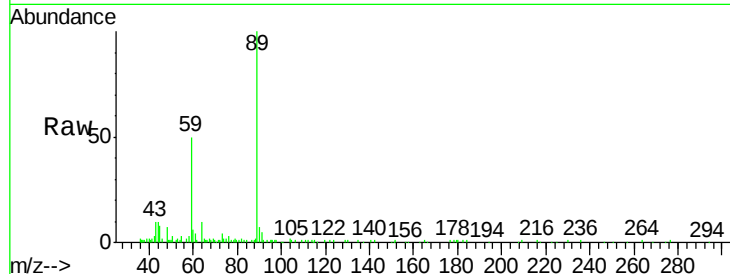


#11

Tert butyl alcohol
 Concen: 11.793 ug/l
 RT: 3.02 min Scan# 306
 Delta R.T. -0.05 min
 Lab File: VX007160.D
 Acq: 21 Jan 2019 15:48

Instrument :
 MSVOA_X
 ClientSampleId :
 SA-TW518-2327

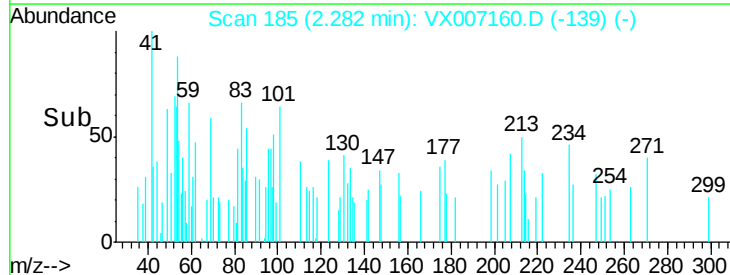
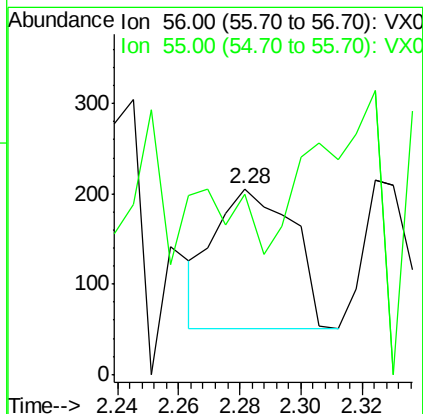
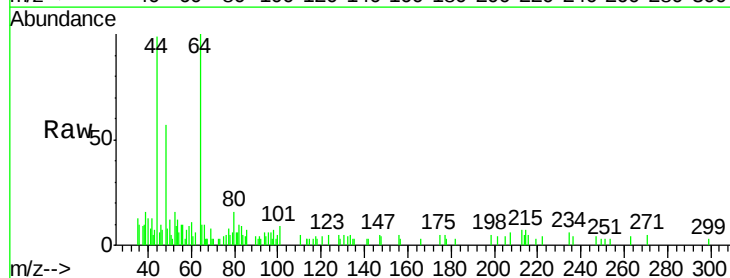
Tot Ion: 59 Resp: 16419
 Ion Ratio Lower Upper
 59 100
 57 1.0 8.5 12.7#

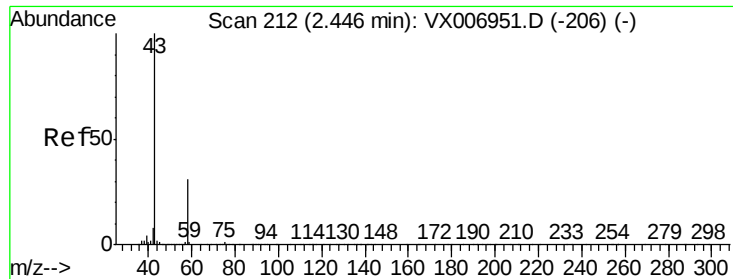


#13

Acrolein
 Concen: 3.533 ug/l
 RT: 2.28 min Scan# 185
 Delta R.T. -0.02 min
 Lab File: VX007160.D
 Acq: 21 Jan 2019 15:48

Tgt Ion: 56 Resp: 273
 Ion Ratio Lower Upper
 56 100
 55 0.0 58.2 87.4#

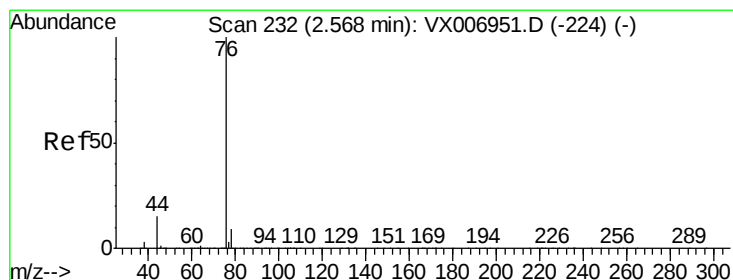
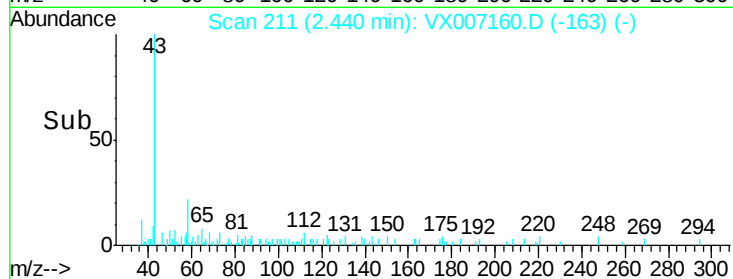
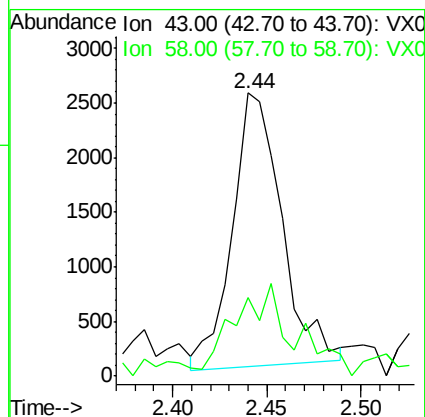
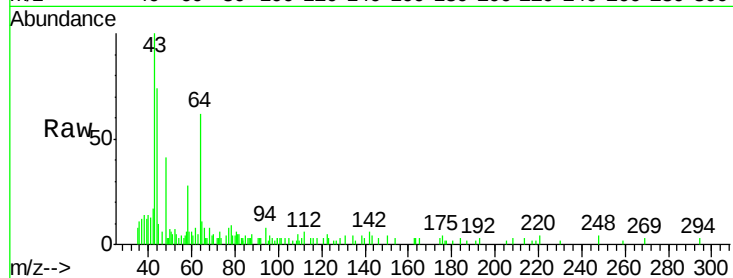




#16
Acetone
Concen: 1.564 ug/l
RT: 2.44 min Scan# 211
Delta R.T. -0.01 min
Lab File: VX007160.D
Acq: 21 Jan 2019 15:48

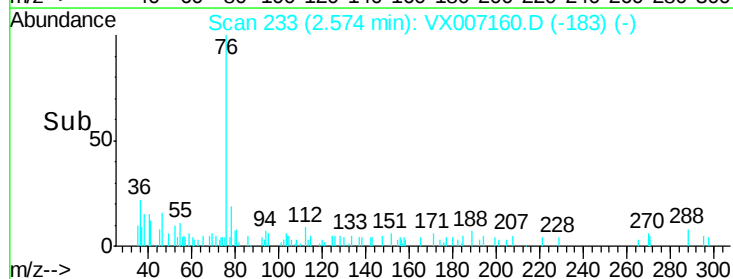
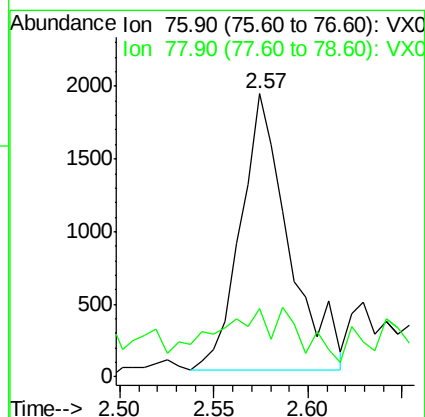
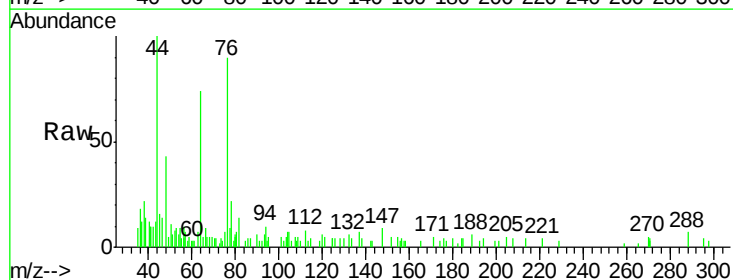
Instrument :
MSVOA_X
ClientSampleId :
SA-TW518-2327

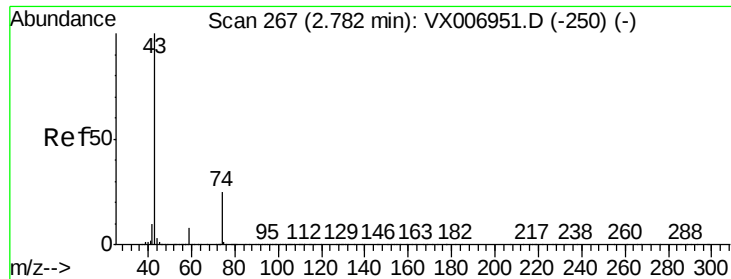
Tot Ion: 43 Resp: 4564
Ion Ratio Lower Upper
43 100
58 26.5 25.0 37.6



#17
Carbon Disulfide
Concen: 0.250 ug/l
RT: 2.57 min Scan# 233
Delta R.T. 0.01 min
Lab File: VX007160.D
Acq: 21 Jan 2019 15:48

Tgt Ion: 76 Resp: 3339
Ion Ratio Lower Upper
76 100
78 19.5 7.0 10.6#





#18

Methyl Acetate

Concen: 0.308 ug/l

RT: 2.78 min Scan# 267

Delta R.T. -0.00 min

Lab File: VX007160.D

Acq: 21 Jan 2019 15:48

Instrument :

MSVOA_X

ClientSampleId :

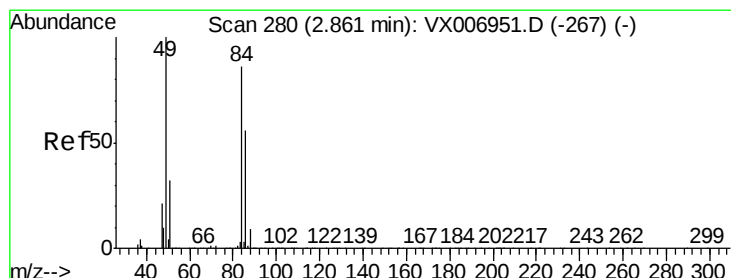
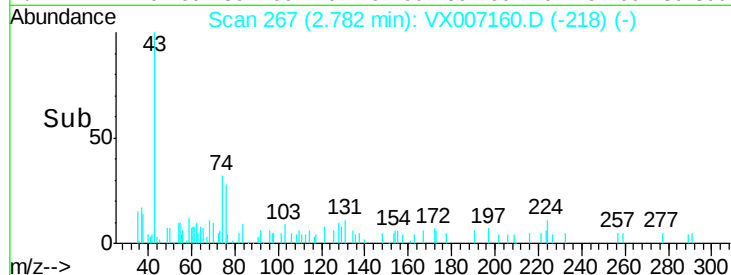
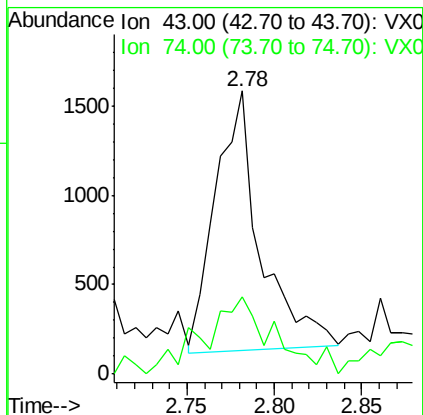
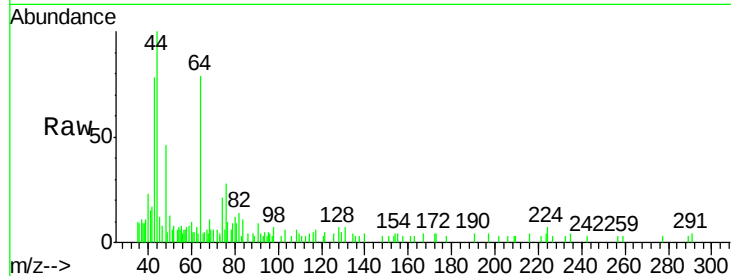
SA-TW518-2327

Tot Ion: 43 Resp: 2604

Ion Ratio Lower Upper

43 100

74 46.7 18.6 28.0#



#20

Methylene Chloride

Concen: Below Cal

RT: 2.86 min Scan# 280

Delta R.T. 0.00 min

Lab File: VX007160.D

Acq: 21 Jan 2019 15:48

Tgt Ion: 84 Resp: 1238

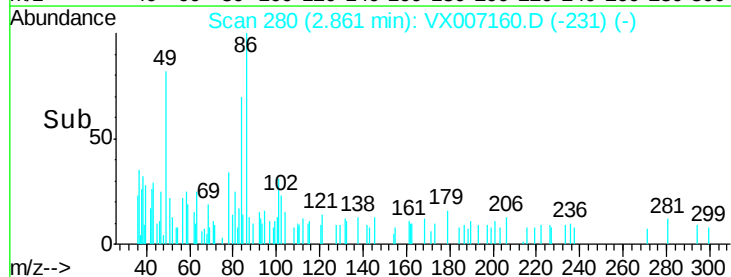
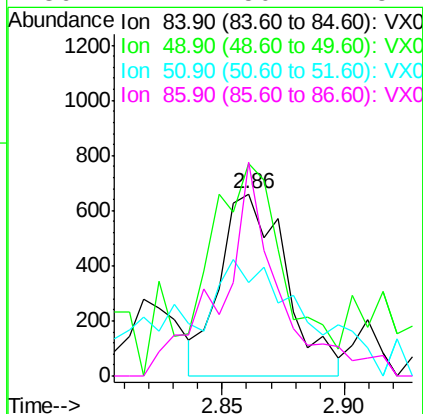
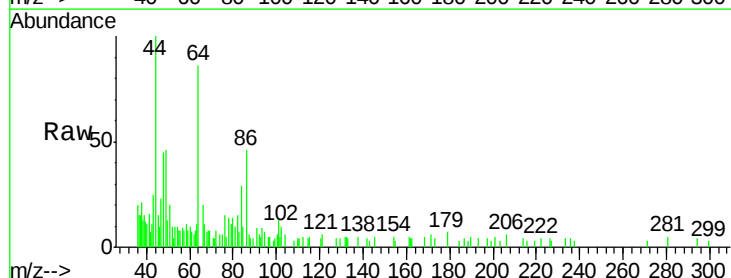
Ion Ratio Lower Upper

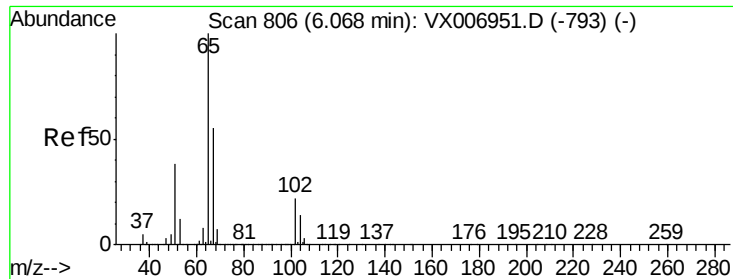
84 100

49 113.1 91.8 137.6

51 25.5 28.5 42.7#

86 112.4 50.2 75.2#





#33

1,2-Dichloroethane-d4

Concen: 51.231 ug/l

RT: 6.07 min Scan# 806

Delta R.T. -0.00 min

Lab File: VX007160.D

Acq: 21 Jan 2019 15:48

Instrument :

MSVOA_X

ClientSampleId :

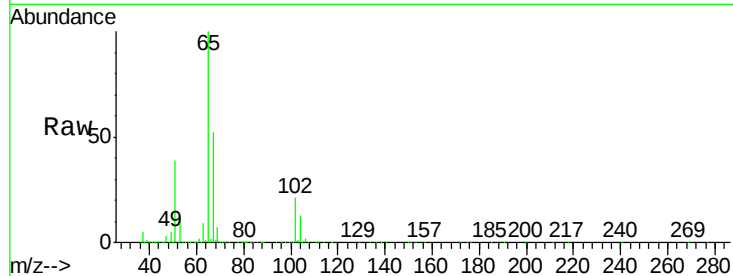
SA-TW518-2327

Tot Ion: 65 Resp: 302358

Ion Ratio Lower Upper

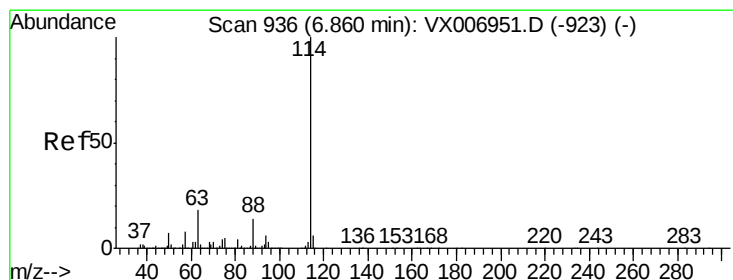
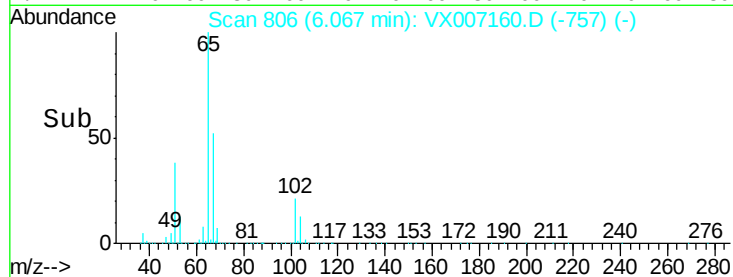
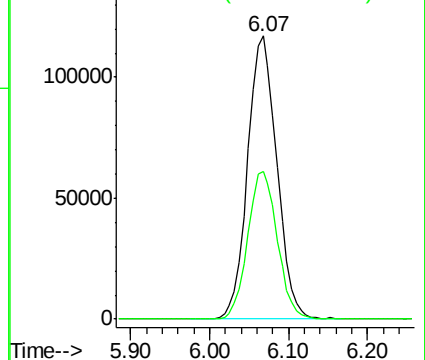
65 100

67 52.6 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: VX007160.D

Acq: 21 Jan 2019 15:48

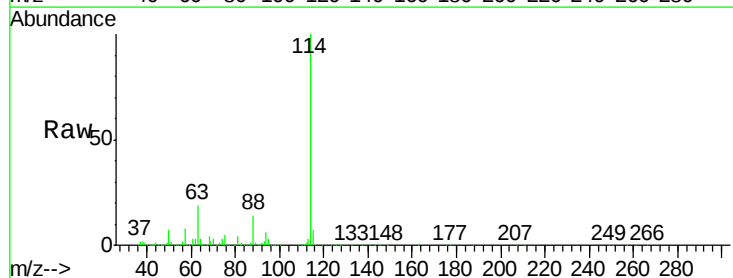
Tgt Ion: 114 Resp: 863409

Ion Ratio Lower Upper

114 100

63 19.4 0.0 34.8

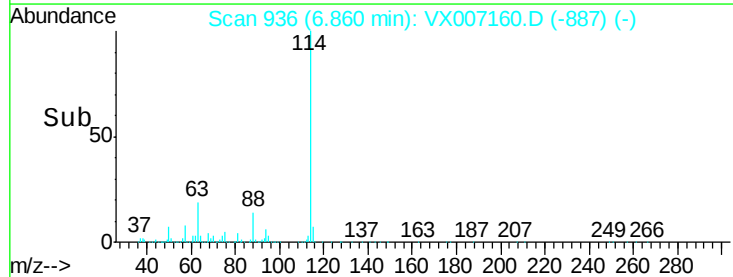
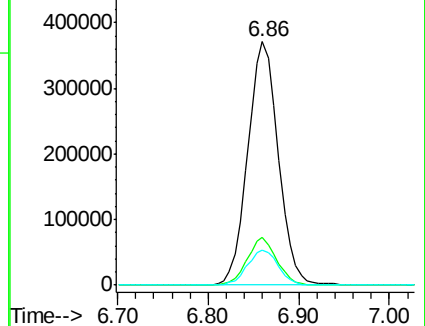
88 14.3 0.0 28.8

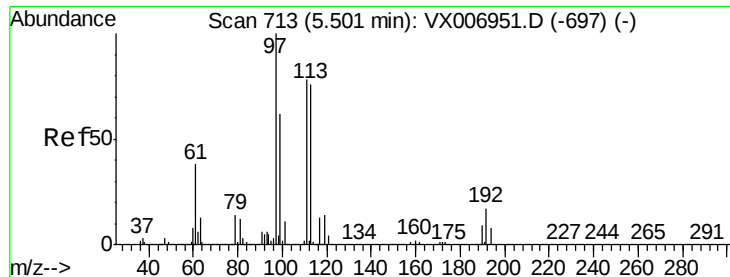


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 48.971 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX007160.D

Acq: 21 Jan 2019 15:48

Instrument :

MSVOA_X

ClientSampled :

SA-TW518-2327

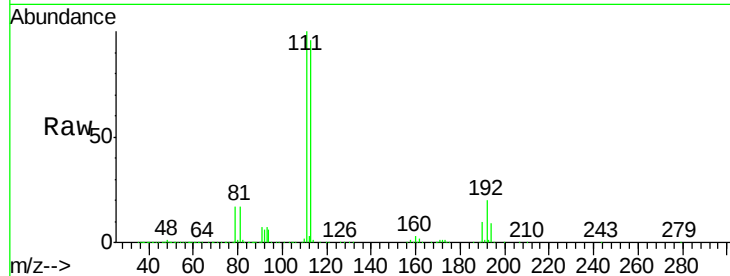
Tot Ion:113 Resp: 270772

Ion Ratio Lower Upper

113 100

111 101.2 81.6 122.4

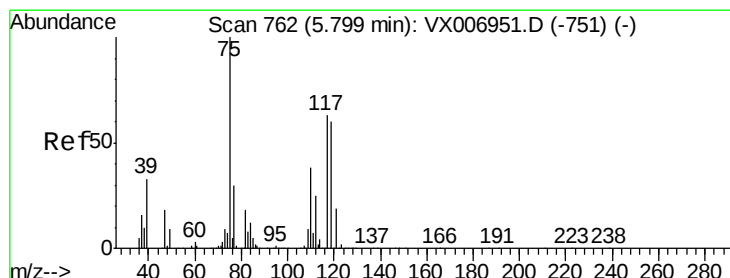
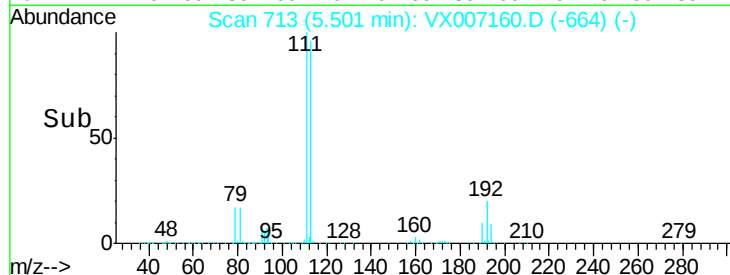
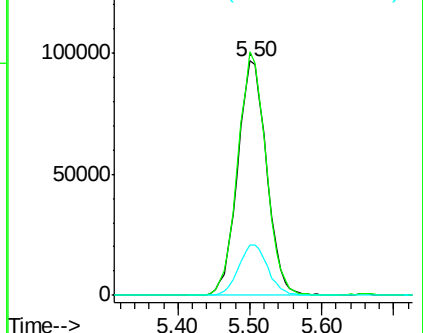
192 21.7 16.7 25.1



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: 4.859 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX007160.D

Acq: 21 Jan 2019 15:48

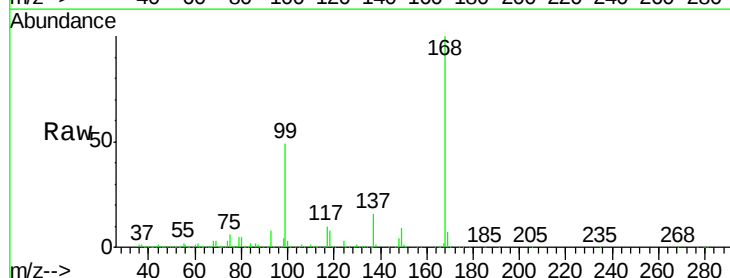
Tgt Ion: 75 Resp: 36471

Ion Ratio Lower Upper

75 100

110 11.1 20.2 60.5#

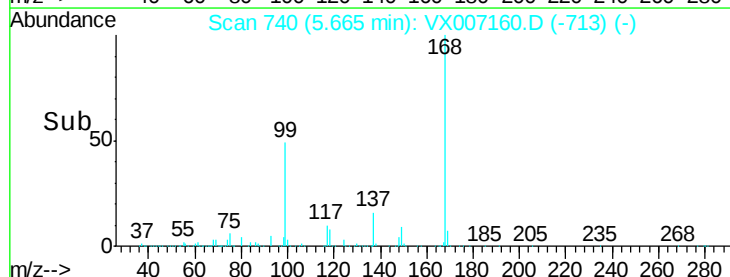
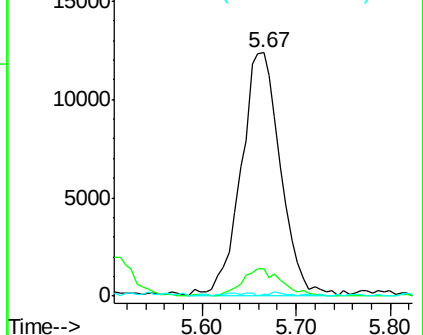
77 0.7 24.8 37.2#

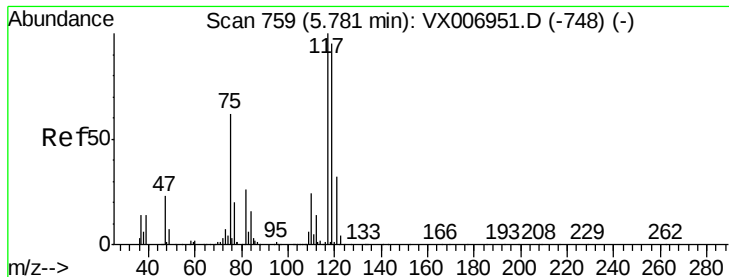


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.749 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX007160.D

Acq: 21 Jan 2019 15:48

Instrument :

MSVOA_X

ClientSampled :

SA-TW518-2327

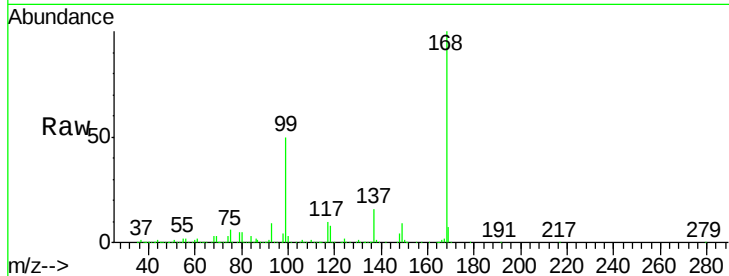
Tot Ion:117 Resp: 50970

Ion Ratio Lower Upper

117 100

119 4.5 79.4 119.2#

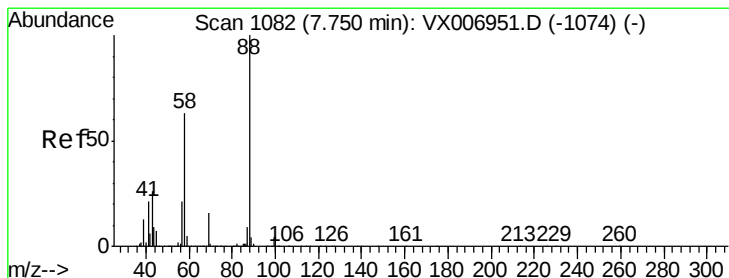
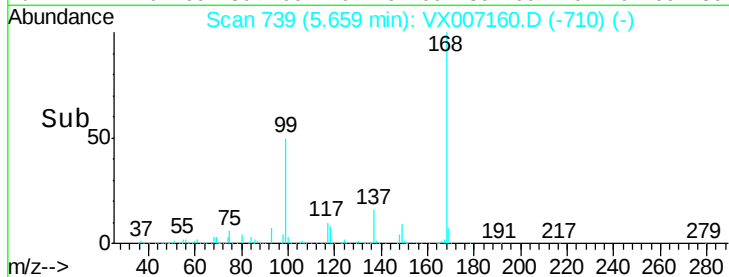
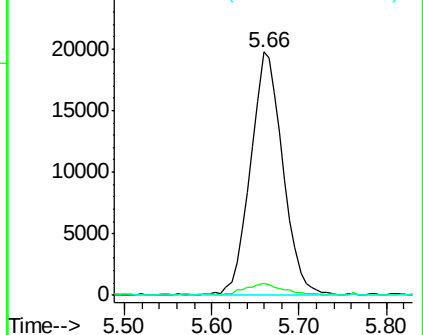
121 0.0 24.0 36.0#



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: 7.74 min Scan# 1081

Delta R.T. -0.01 min

Lab File: VX007160.D

Acq: 21 Jan 2019 15:48

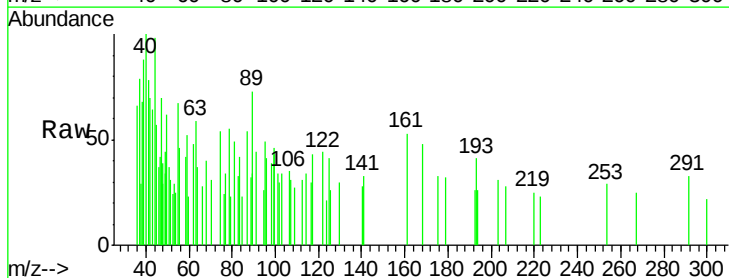
Tgt Ion: 88 Resp: 95

Ion Ratio Lower Upper

88 100

43 345.3 22.2 33.4#

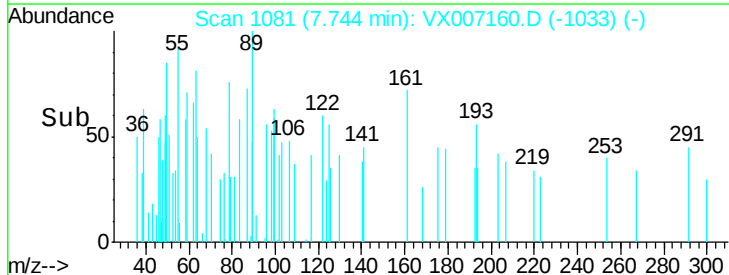
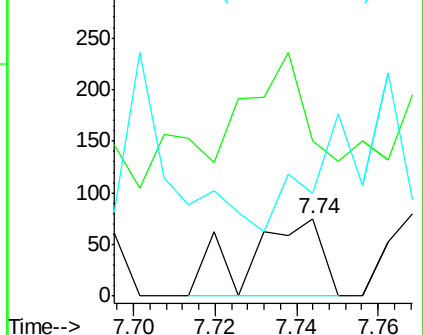
58 0.0 51.0 76.4#

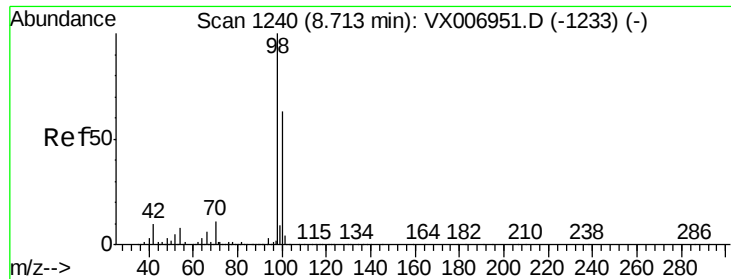


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 51.290 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX007160.D

Acq: 21 Jan 2019 15:48

Instrument :

MSVOA_X

ClientSampleId :

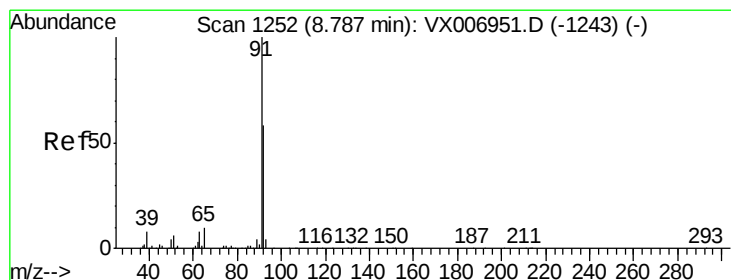
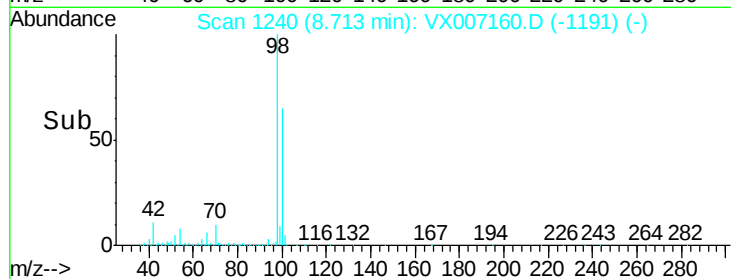
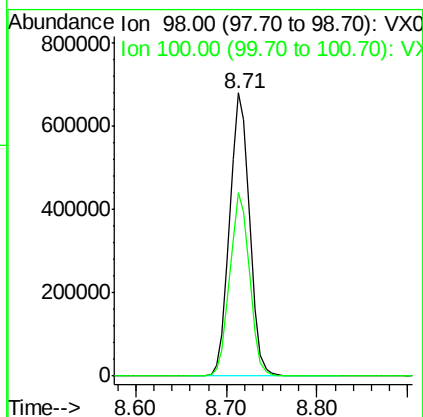
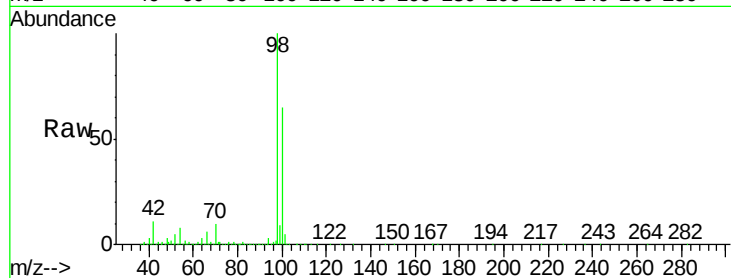
SA-TW518-2327

Tot Ion: 98 Resp: 1038036

Ion Ratio Lower Upper

98 100

100 64.3 52.0 78.0



#52

Toluene

Concen: 0.411 ug/l

RT: 8.79 min Scan# 1252

Delta R.T. -0.00 min

Lab File: VX007160.D

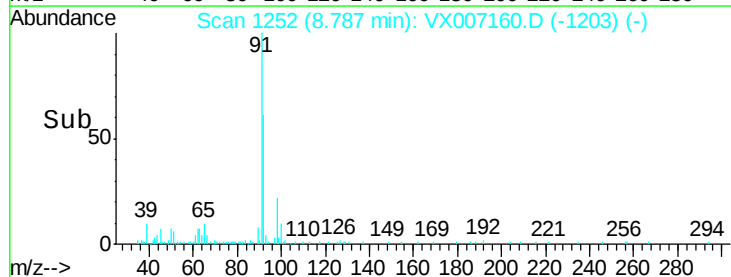
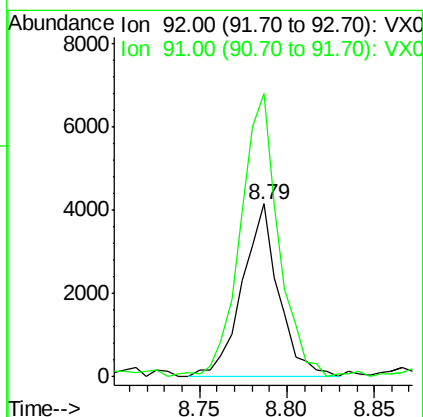
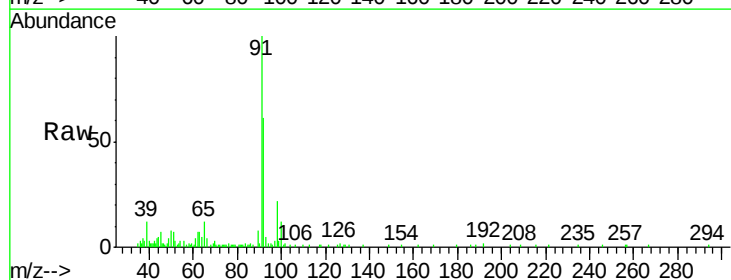
Acq: 21 Jan 2019 15:48

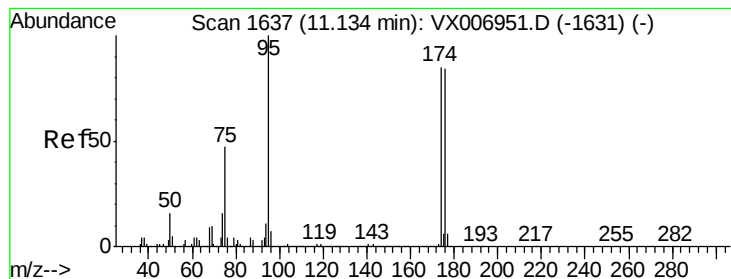
Tgt Ion: 92 Resp: 6057

Ion Ratio Lower Upper

92 100

91 170.8 137.6 206.4





#62

4-Bromofluorobenzene

Concen: 53.113 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX007160.D

Acq: 21 Jan 2019 15:48

Instrument :

MSVOA_X

ClientSampleId :

SA-TW518-2327

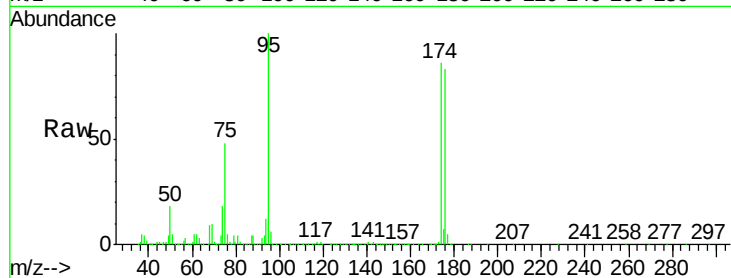
Tot Ion: 95 Resp: 374751

Ion Ratio Lower Upper

95 100

174 92.7 0.0 182.2

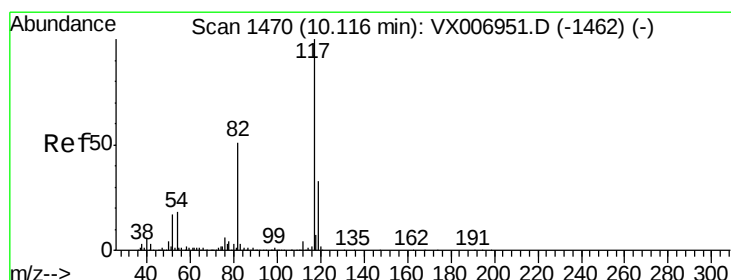
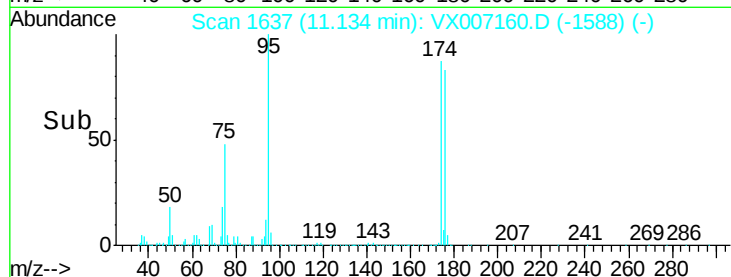
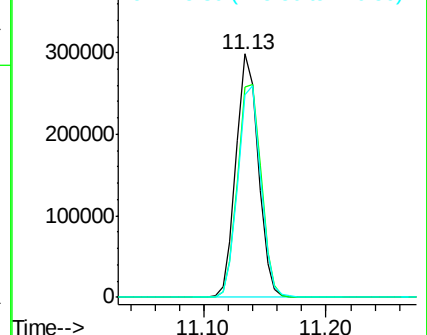
176 89.6 0.0 178.8



Abundance Ion 94.90 (94.60 to 95.60): VX006951.D (-1631) (-)

Ion 173.80 (173.50 to 174.50): VX006951.D (-1631) (-)

Ion 175.80 (175.50 to 176.50): VX006951.D (-1631) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.12 min Scan# 1470

Delta R.T. -0.00 min

Lab File: VX007160.D

Acq: 21 Jan 2019 15:48

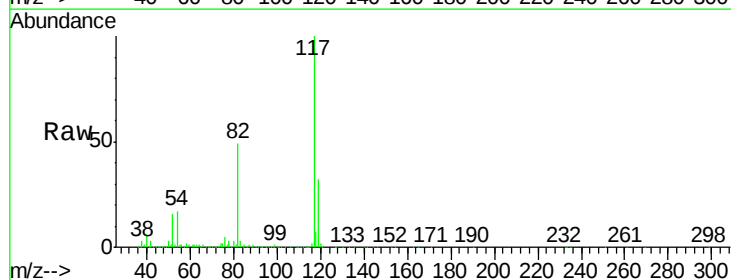
Tgt Ion: 117 Resp: 816735

Ion Ratio Lower Upper

117 100

82 49.1 41.0 61.6

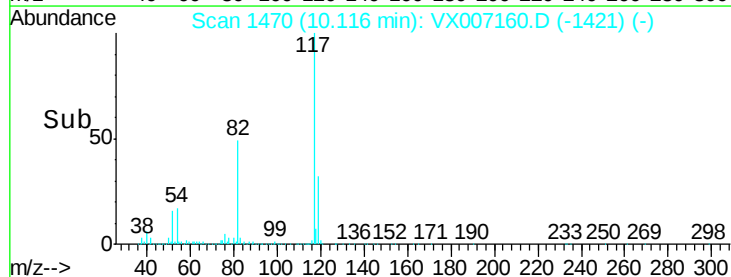
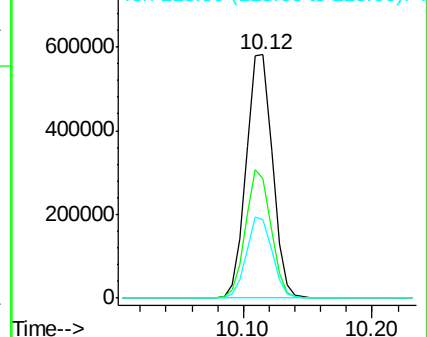
119 32.0 25.4 38.0

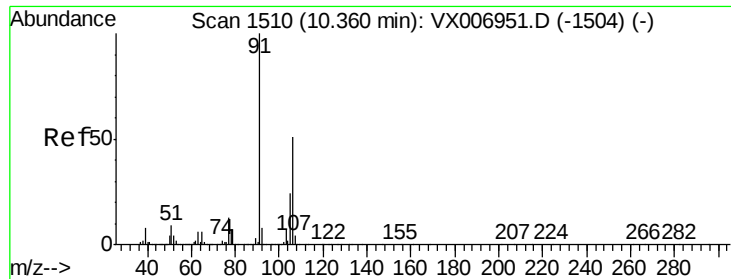


Abundance Ion 116.90 (116.60 to 117.60): VX006951.D (-1462) (-)

Ion 82.00 (81.70 to 82.70): VX006951.D (-1462) (-)

Ion 118.90 (118.60 to 119.60): VX006951.D (-1462) (-)





#68

m/p-Xylenes

Concen: 0.530 ug/l

RT: 10.36 min Scan# 1510

Delta R.T. -0.00 min

Lab File: VX007160.D

Acq: 21 Jan 2019 15:48

Instrument :

MSVOA_X

ClientSampleId :

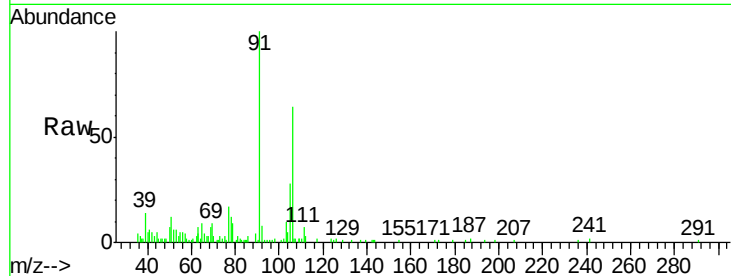
SA-TW518-2327

Tot Ion:106 Resp: 6135

Ion Ratio Lower Upper

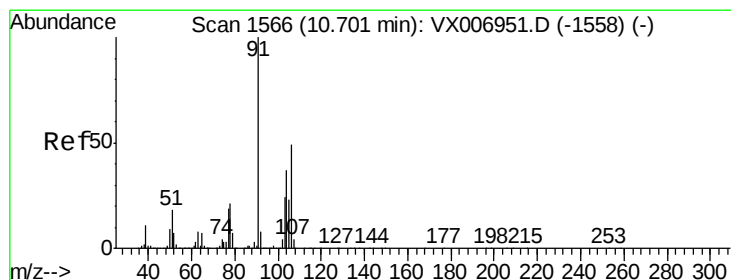
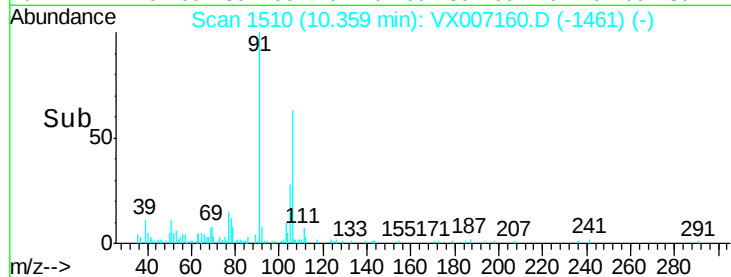
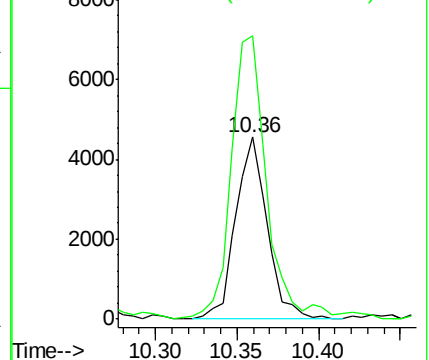
106 100

91 174.0 155.8 233.6



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VX0



#69

o-Xylene

Concen: 0.222 ug/l

RT: 10.69 min Scan# 1565

Delta R.T. -0.01 min

Lab File: VX007160.D

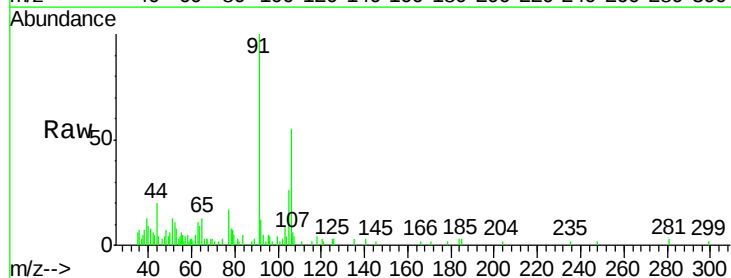
Acq: 21 Jan 2019 15:48

Tgt Ion:106 Resp: 2504

Ion Ratio Lower Upper

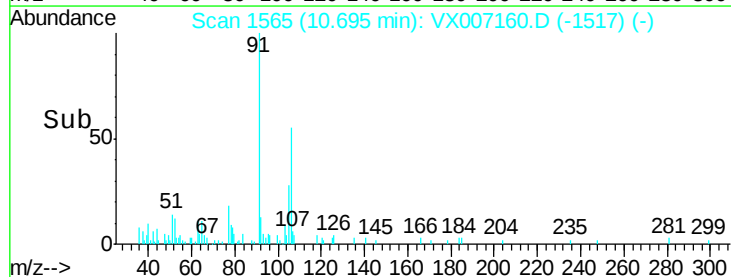
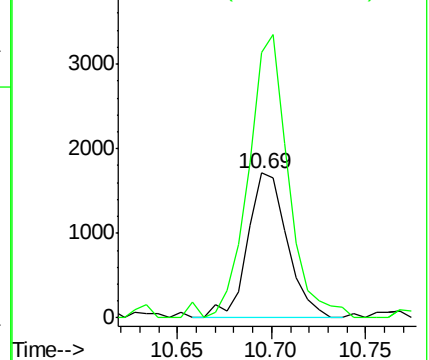
106 100

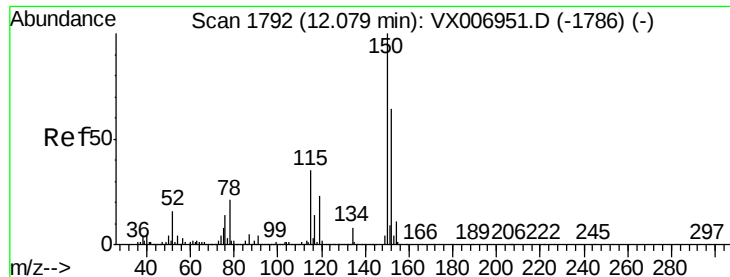
91 195.0 101.3 303.7



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: VX007160.D

Acq: 21 Jan 2019 15:48

Instrument :

MSVOA_X

ClientSampleId :

SA-TW518-2327

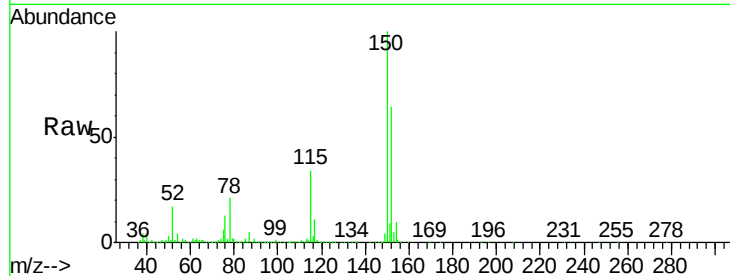
Tot Ion:152 Resp: 405805

Ion Ratio Lower Upper

152 100

115 54.1 39.1 117.2

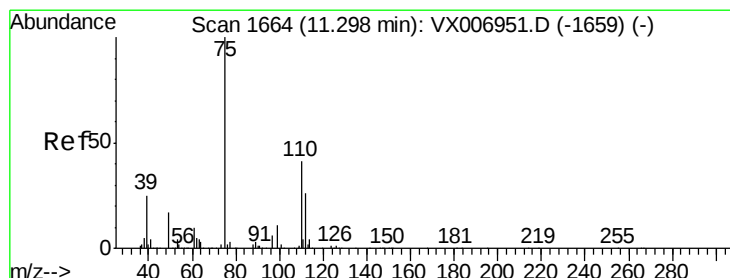
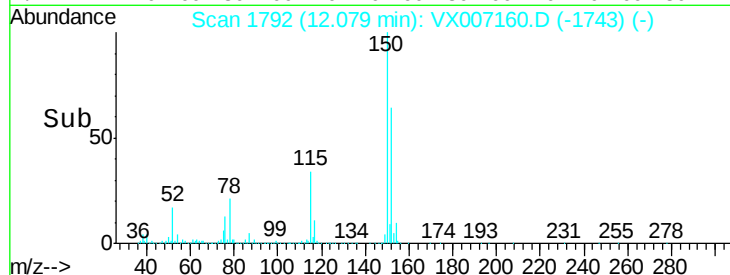
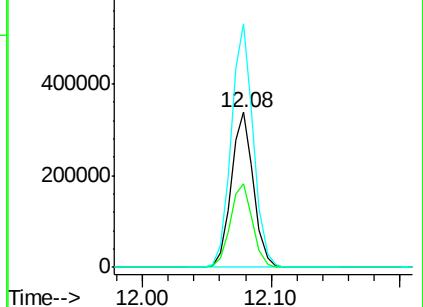
150 156.4 0.0 344.8



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: 21.629 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX007160.D

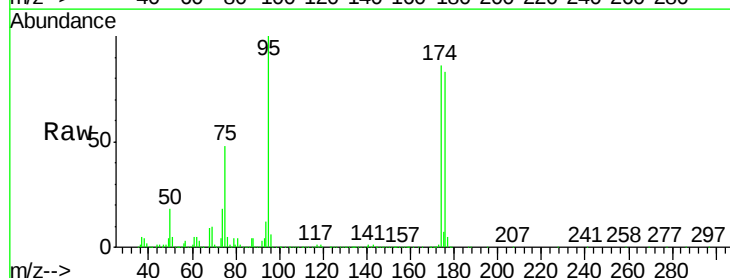
Acq: 21 Jan 2019 15:48

Tgt Ion: 75 Resp: 177869

Ion Ratio Lower Upper

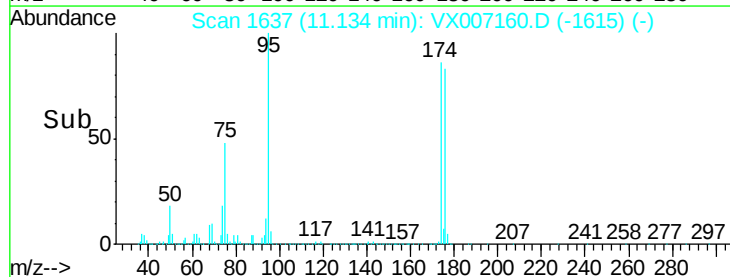
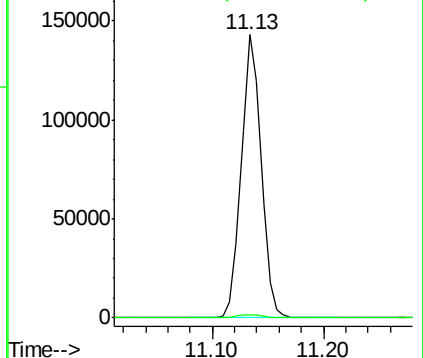
75 100

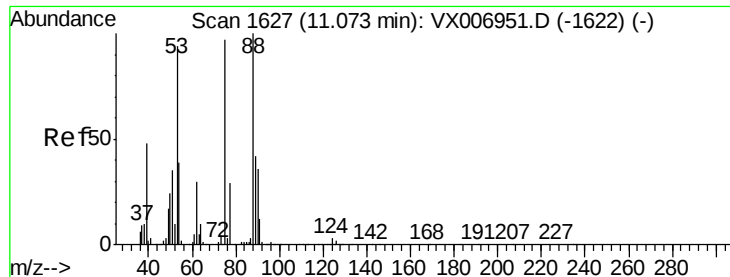
77 1.4 18.5 55.5#



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: 64.119 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX007160.D

Acq: 21 Jan 2019 15:48

Instrument :

MSVOA_X

ClientSampleId :

SA-TW518-2327

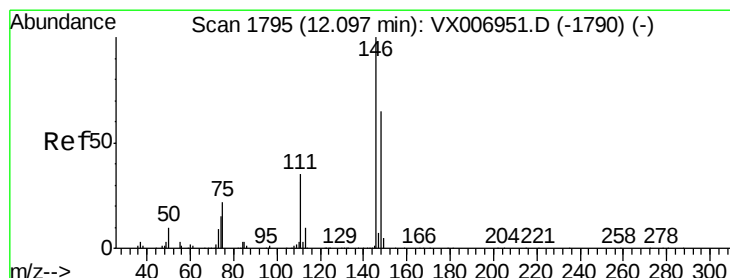
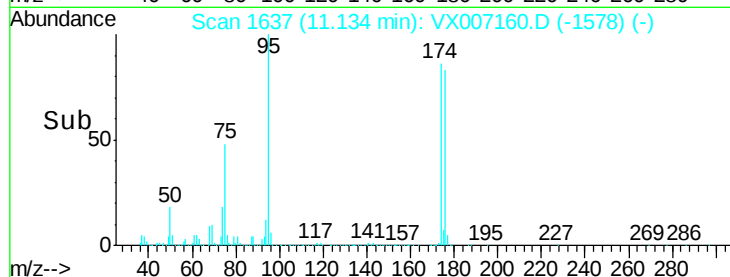
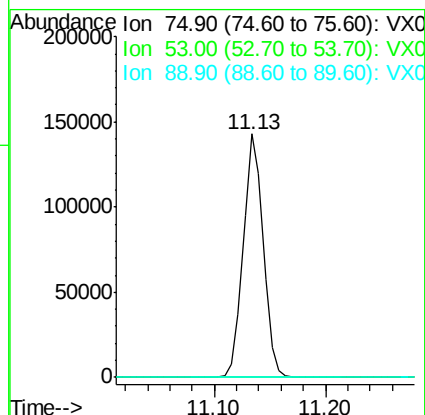
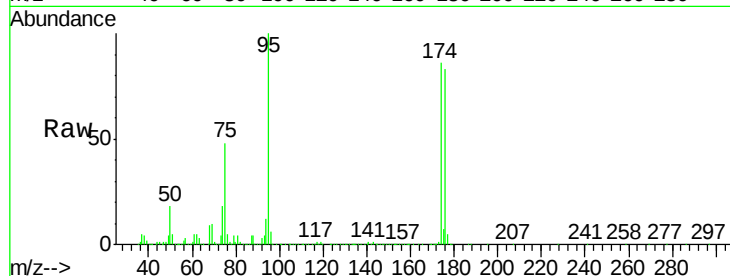
Tot Ion: 75 Resp: 177869

Ion Ratio Lower Upper

75 100

53 0.1 79.7 119.5#

89 0.1 38.0 57.0#



#88

1,4-Dichlorobenzene

Concen: 0.220 ug/l

RT: 12.10 min Scan# 1795

Delta R.T. -0.00 min

Lab File: VX007160.D

Acq: 21 Jan 2019 15:48

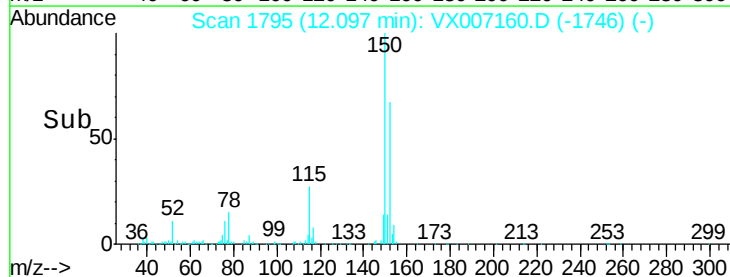
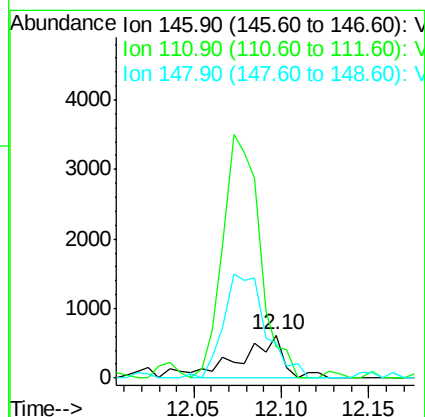
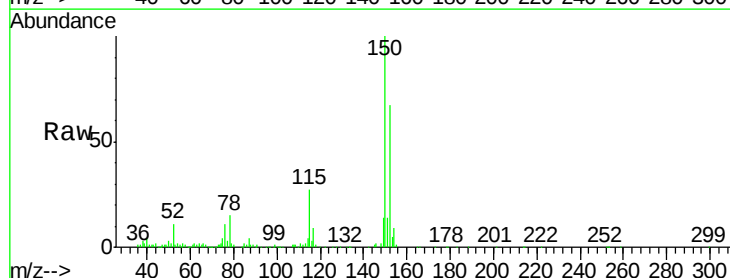
Tgt Ion: 146 Resp: 1019

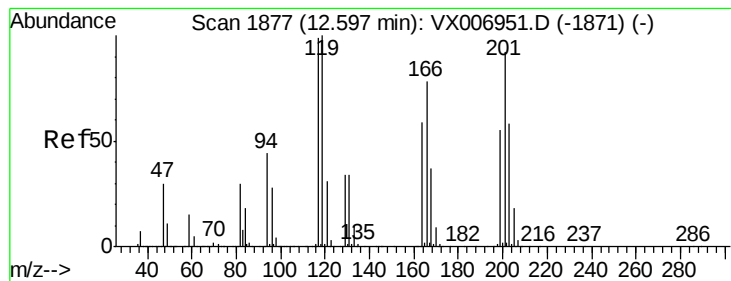
Ion Ratio Lower Upper

146 100

111 0.0 18.1 54.1#

148 0.0 31.9 95.9#





#90

Hexachloroethane

Concen: 2.933 ug/l

RT: 12.56 min Scan# 1871

Delta R.T. -0.04 min

Lab File: VX007160.D

Acq: 21 Jan 2019 15:48

Instrument :

MSVOA_X

ClientSampleId :

SA-TW518-2327

Tot Ion:117 Resp: 109

Ion Ratio Lower Upper

117 100

201 51.4 42.9 128.7

