

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX112719\
 Data File : VX013687.D
 Acq On : 28 Nov 2019 05:51
 Operator : JC/SP
 Sample : K5965-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 50 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 S39-0188

Quant Time: Nov 29 00:43:30 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X112619W.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 26 15:53:00 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	676021	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	1052593	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	934878	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	418947	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.05	65	379841	48.41	ug/l	0.00
Spiked Amount			Recovery	=	96.82%	
35) Dibromofluoromethane	5.49	113	313654	48.20	ug/l	0.00
Spiked Amount			Recovery	=	96.40%	
50) Toluene-d8	8.71	98	1246940	49.18	ug/l	0.00
Spiked Amount			Recovery	=	98.36%	
62) 4-Bromofluorobenzene	11.14	95	418480	45.77	ug/l	0.00
Spiked Amount			Recovery	=	91.54%	

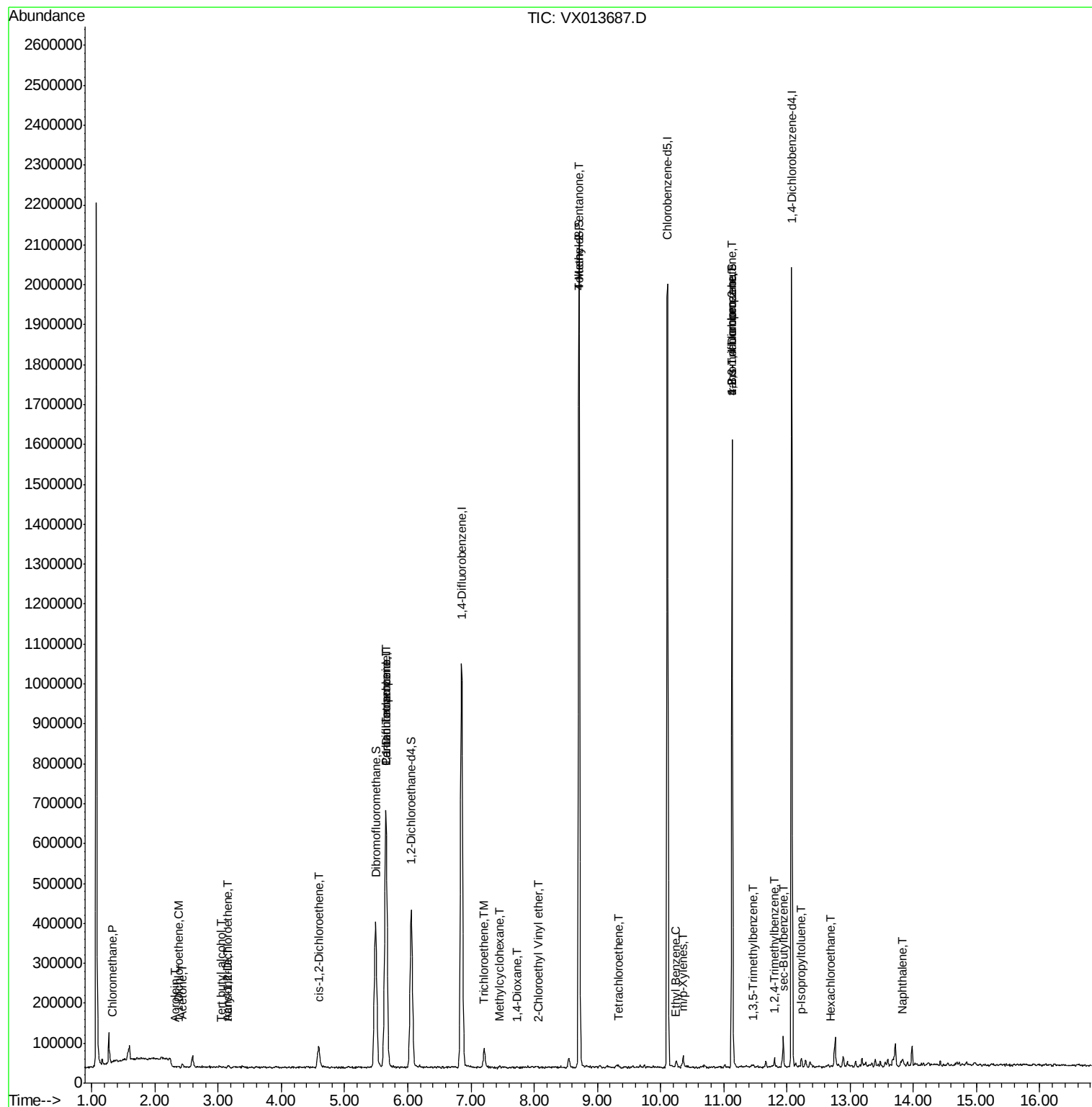
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	2974	0.352	ug/l #	83
11) Tert butyl alcohol	3.03	59	2236	1.154	ug/l #	56
12) 1,1-Dichloroethene	2.37	96	1411	0.219	ug/l #	16
13) Acrolein	2.31	56	183	6.142	ug/l #	15
15) Acrylonitrile	3.15	53	801	0.200	ug/l #	79
16) Acetone	2.43	43	6771	1.748	ug/l	97
21) trans-1,2-Dichloroethene	3.16	96	2482	0.354	ug/l #	75
27) cis-1,2-Dichloroethene	4.59	96	32992	4.099	ug/l	90
36) 1,1-Dichloropropene	5.65	75	46506	4.867	ug/l #	52
38) Carbon Tetrachloride	5.65	117	58208	6.607	ug/l #	16
39) Methylcyclohexane	7.46	83	3187	0.270	ug/l #	75
44) Trichloroethene	7.21	130	21147	2.648	ug/l	86
49) 1,4-Dioxane	7.73	88	169	0.881	ug/l #	1
51) 4-Methyl-2-Pentanone	8.71	43	6766	0.610	ug/l #	1
58) 2-Chloroethyl Vinyl ether	8.07	63	1339	0.292	ug/l	96
64) Tetrachloroethene	9.34	164	2179	0.313	ug/l #	62
67) Ethyl Benzene	10.25	91	10606	0.318	ug/l	97
68) m/p-Xylenes	10.36	106	6596	0.517	ug/l	78
76) 1,2,3-Trichloropropane	11.13	75	206430	21.907	ug/l #	39
80) 1,3,5-Trimethylbenzene	11.45	105	4848	0.201	ug/l	74
81) trans-1,4-Dichloro-2-buten	11.13	75	206430	59.935	ug/l #	11
84) 1,2,4-Trimethylbenzene	11.81	105	11131	0.455	ug/l	86
85) sec-Butylbenzene	11.94	105	42918	1.535	ug/l	96
86) p-Isopropyltoluene	12.23	119	10976	0.422	ug/l	93
90) Hexachloroethane	12.70	117	1937	0.412	ug/l #	13
95) Naphthalene	13.83	128	12648	0.446	ug/l #	82

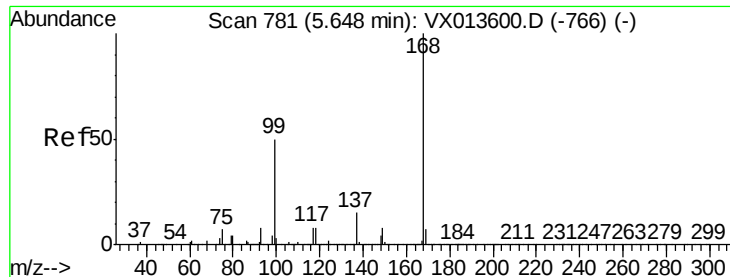
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Nov 26 15:53:00 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.01 min

Lab File: VX013687.D

Acq: 28 Nov 2019 05:51

Instrument :

MSVOA_X

ClientSampled :

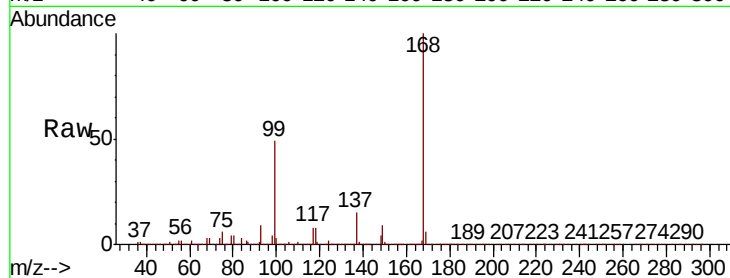
S39-0188

Tot Ion:168 Resp: 676021

Ion Ratio Lower Upper

168 100

99 48.8 39.8 59.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

250000

200000

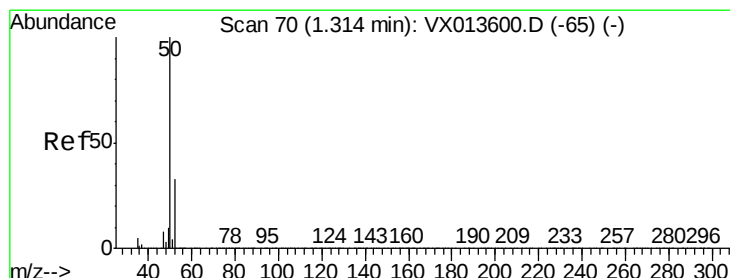
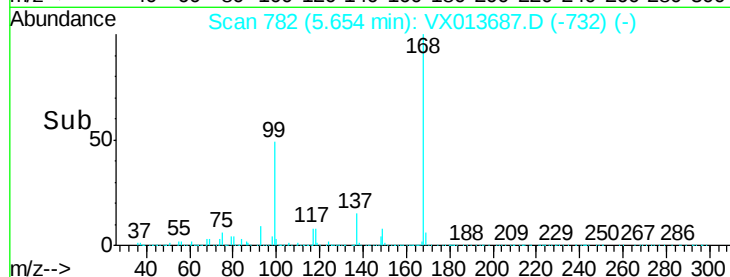
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 0.352 ug/l

RT: 1.32 min Scan# 71

Delta R.T. 0.01 min

Lab File: VX013687.D

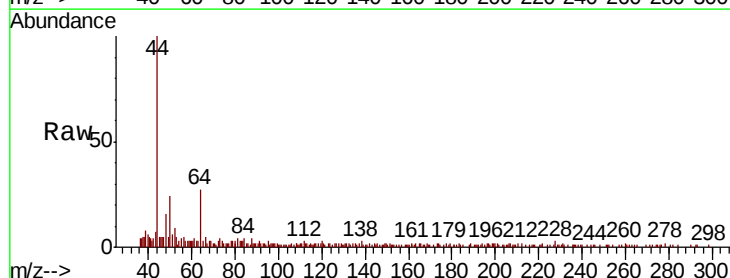
Acq: 28 Nov 2019 05:51

Tgt Ion: 50 Resp: 2974

Ion Ratio Lower Upper

50 100

52 42.0 26.0 39.0#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

2000

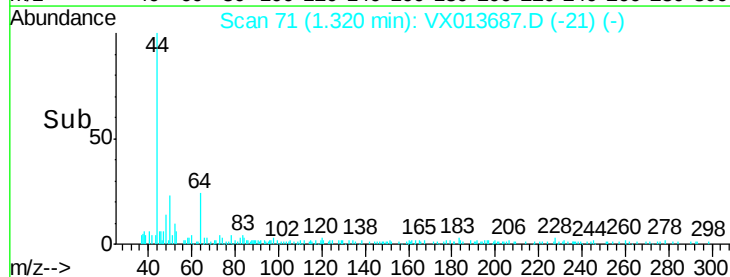
1500

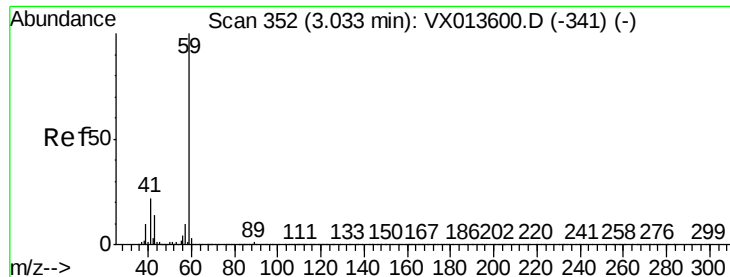
1000

500

0

Time-->



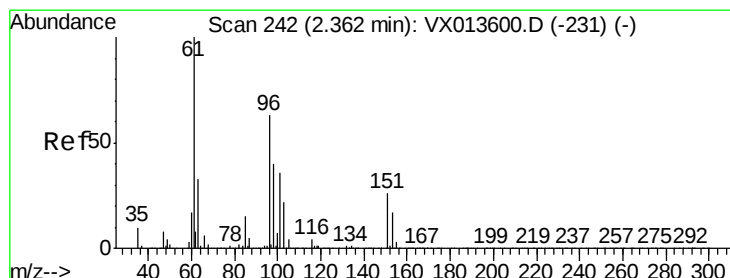
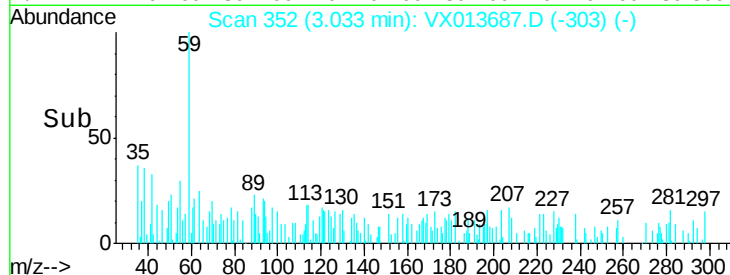
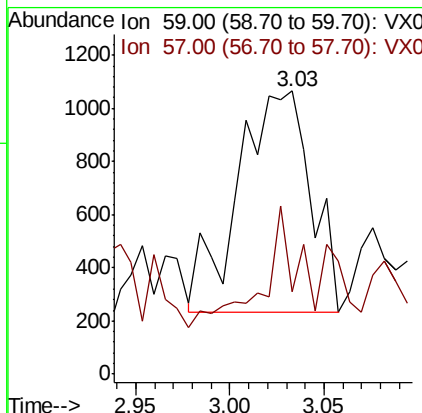
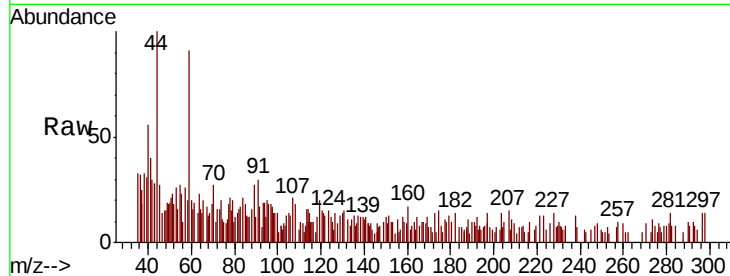


#11

Tert butyl alcohol
 Concen: 1.154 ug/l
 RT: 3.03 min Scan# 352
 Delta R.T. -0.00 min
 Lab File: VX013687.D
 Acq: 28 Nov 2019 05:51

Instrument :
 MSVOA_X
 ClientSampled :
 S39-0188

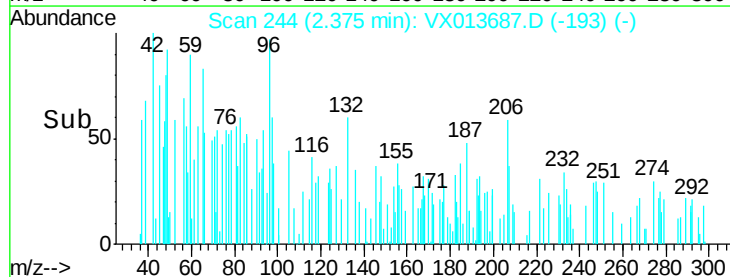
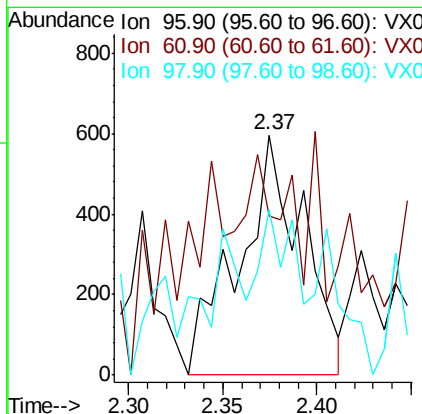
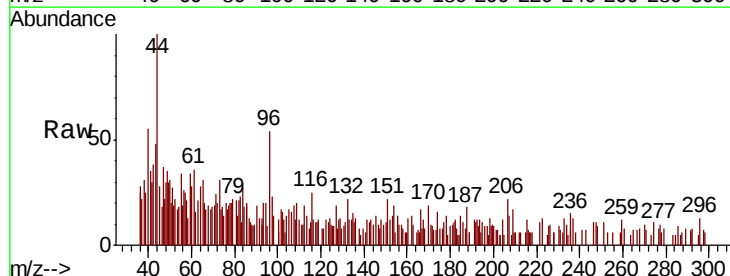
Tot Ion: 59 Resp: 2236
 Ion Ratio Lower Upper
 59 100
 57 25.8 7.8 11.6#

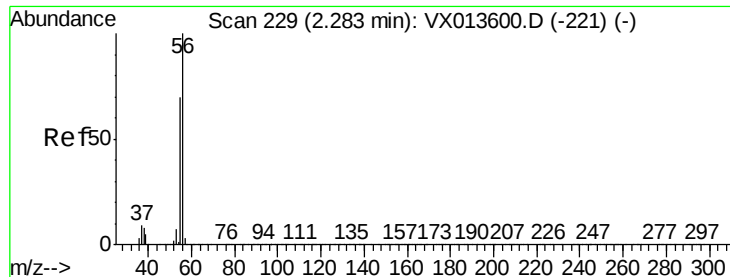


#12

1,1-Dichloroethene
 Concen: 0.219 ug/l
 RT: 2.37 min Scan# 244
 Delta R.T. 0.01 min
 Lab File: VX013687.D
 Acq: 28 Nov 2019 05:51

Tgt Ion: 96 Resp: 1411
 Ion Ratio Lower Upper
 96 100
 61 21.0 126.6 190.0#
 98 39.3 50.6 76.0#





#13

Acrolein

Concen: 6.142 ug/l

RT: 2.31 min Scan# 234

Delta R.T. 0.03 min

Lab File: VX013687.D

Acq: 28 Nov 2019 05:51

Instrument :

MSVOA_X

ClientSampleId :

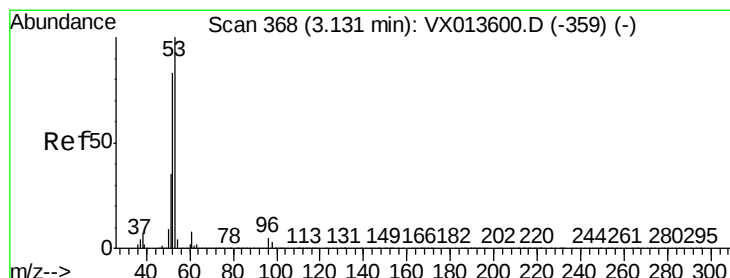
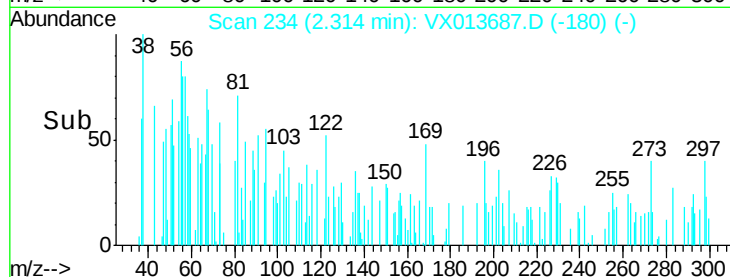
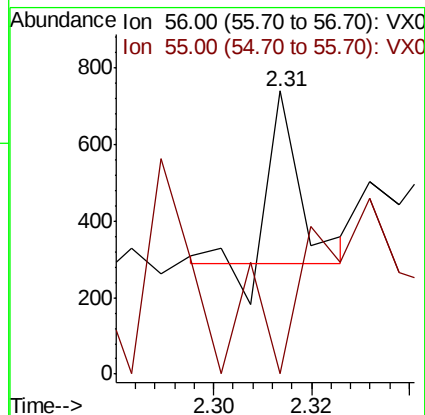
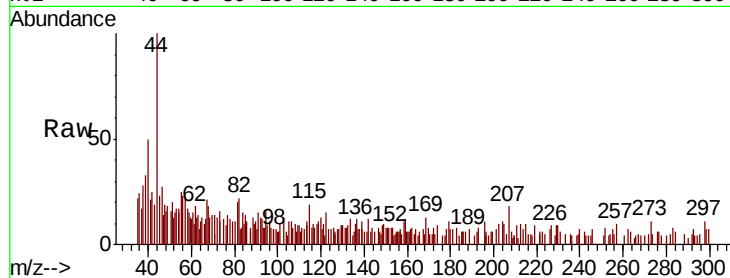
S39-0188

Tot Ion: 56 Resp: 183

Ion Ratio Lower Upper

56 100

55 0.0 56.2 84.4#



#15

Acrylonitrile

Concen: 0.200 ug/l

RT: 3.15 min Scan# 372

Delta R.T. 0.02 min

Lab File: VX013687.D

Acq: 28 Nov 2019 05:51

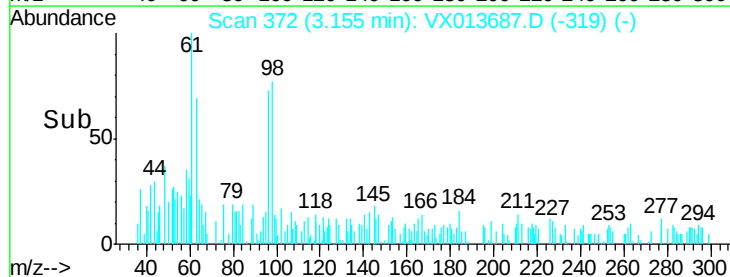
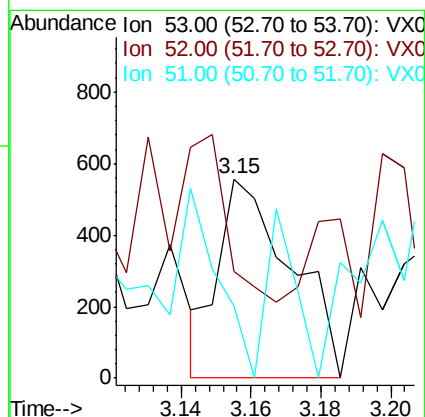
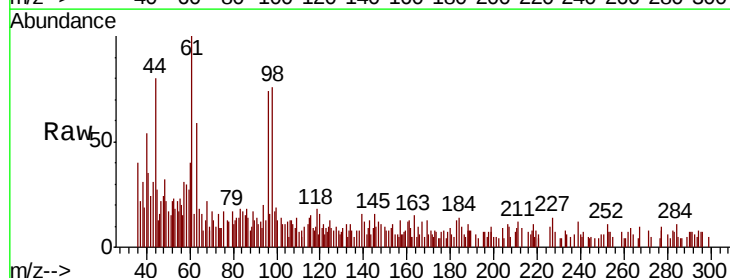
Tgt Ion: 53 Resp: 801

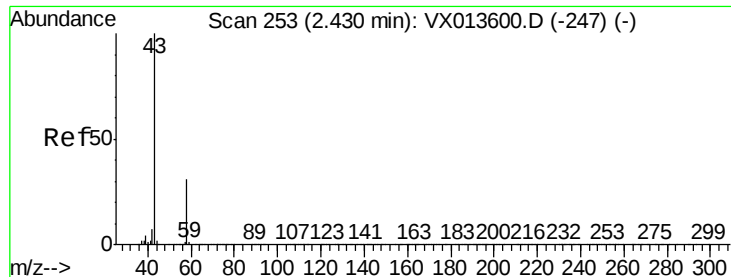
Ion Ratio Lower Upper

53 100

52 102.9 66.2 99.2#

51 47.4 29.0 43.6#





#16

Acetone

Concen: 1.748 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.00 min

Lab File: VX013687.D

Acq: 28 Nov 2019 05:51

Instrument :

MSVOA_X

ClientSampleId :

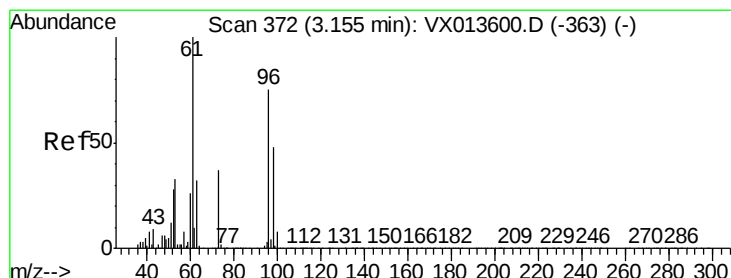
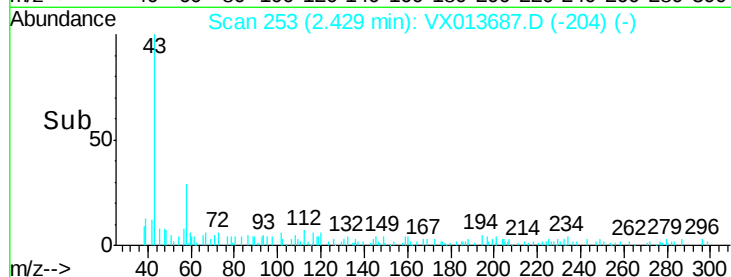
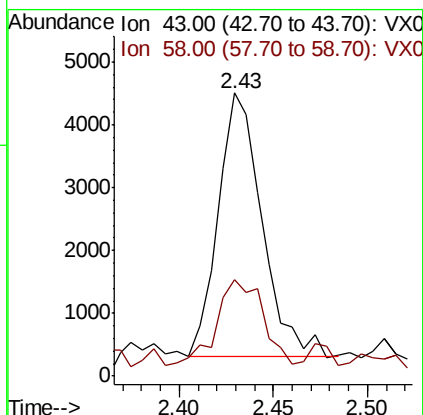
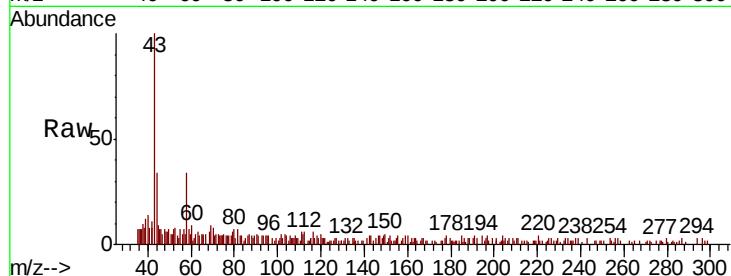
S39-0188

Tot Ion: 43 Resp: 6771

Ion Ratio Lower Upper

43 100

58 32.4 24.6 36.8



#21

trans-1,2-Dichloroethene

Concen: 0.354 ug/l

RT: 3.16 min Scan# 373

Delta R.T. 0.01 min

Lab File: VX013687.D

Acq: 28 Nov 2019 05:51

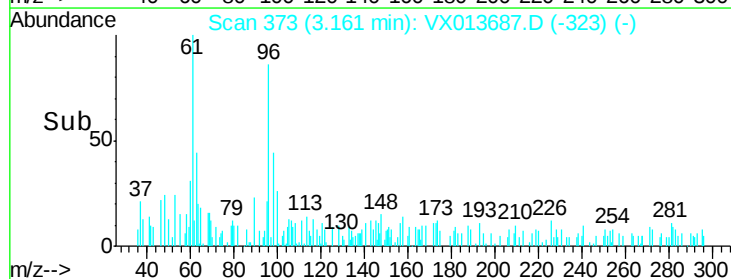
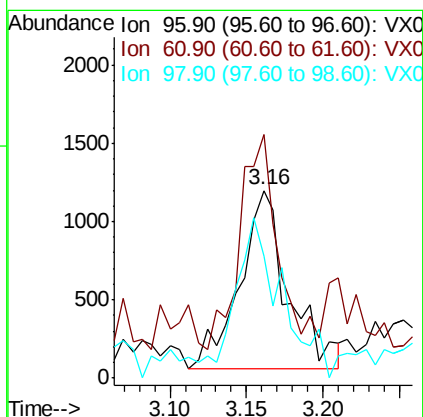
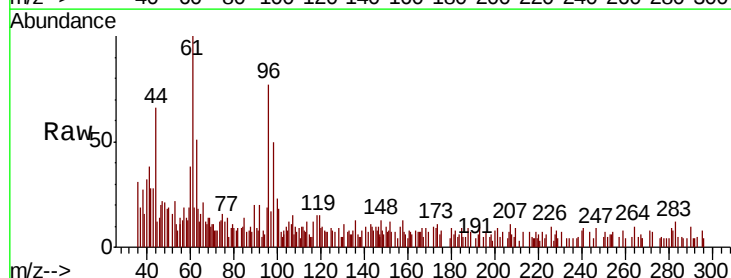
Tgt Ion: 96 Resp: 2482

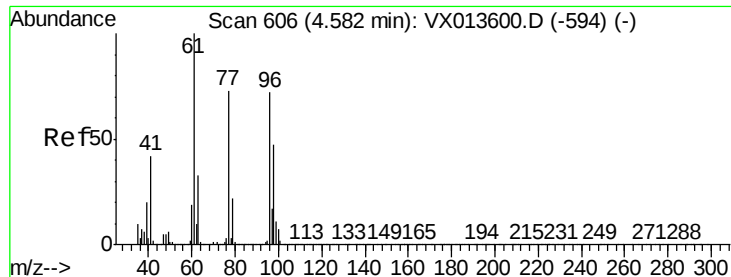
Ion Ratio Lower Upper

96 100

61 95.3 107.2 160.8#

98 56.6 51.4 77.0



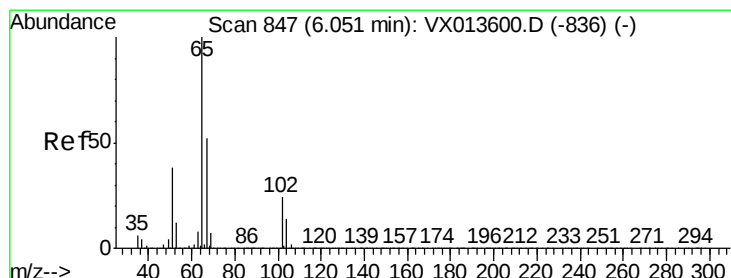
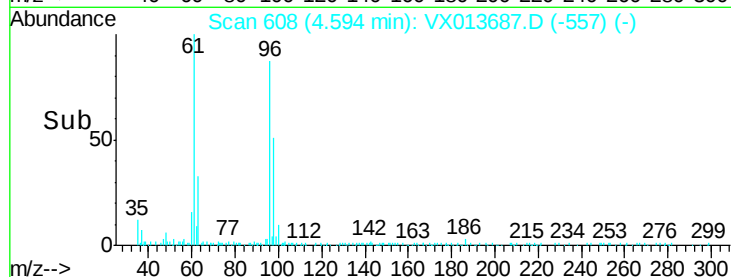
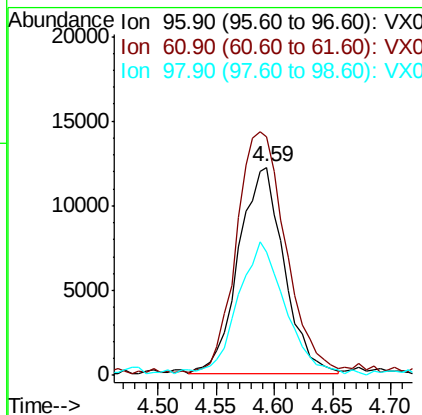
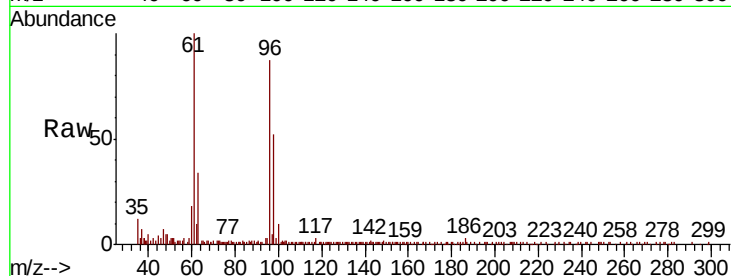


#27

cis-1,2-Dichloroethene
Concen: 4.099 ug/l
RT: 4.59 min Scan# 608
Delta R.T. 0.01 min
Lab File: VX013687.D
Acq: 28 Nov 2019 05:51

Instrument :
MSVOA_X
ClientSampleId :
S39-0188

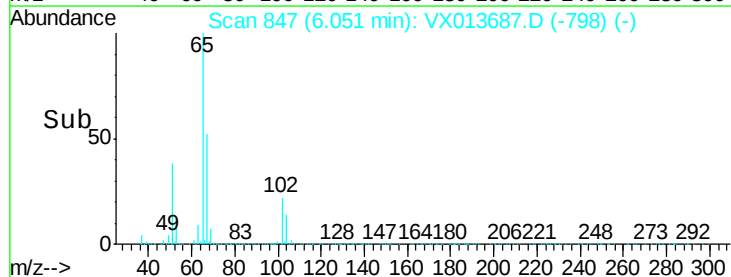
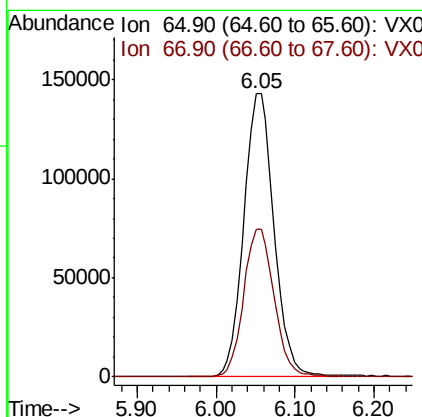
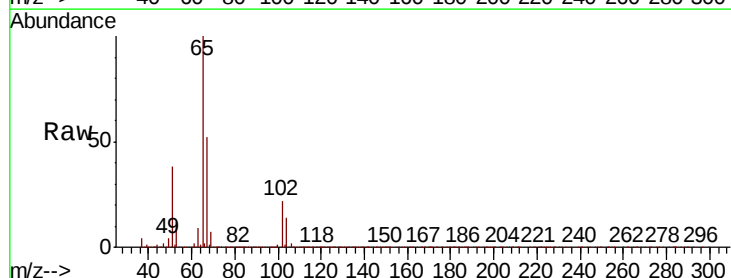
Tot Ion: 96 Resp: 32992
Ion Ratio Lower Upper
96 100
61 127.4 0.0 286.4
98 66.9 0.0 127.4

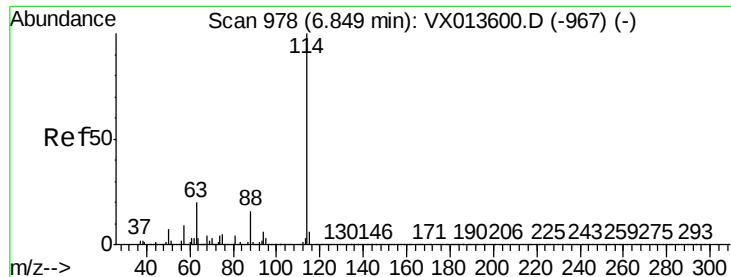


#33

1,2-Dichloroethane-d4
Concen: 48.405 ug/l
RT: 6.05 min Scan# 847
Delta R.T. -0.00 min
Lab File: VX013687.D
Acq: 28 Nov 2019 05:51

Tgt Ion: 65 Resp: 379841
Ion Ratio Lower Upper
65 100
67 52.6 0.0 104.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. -0.00 min

Lab File: VX013687.D

Acq: 28 Nov 2019 05:51

Instrument :

MSVOA_X

ClientSampleId :

S39-0188

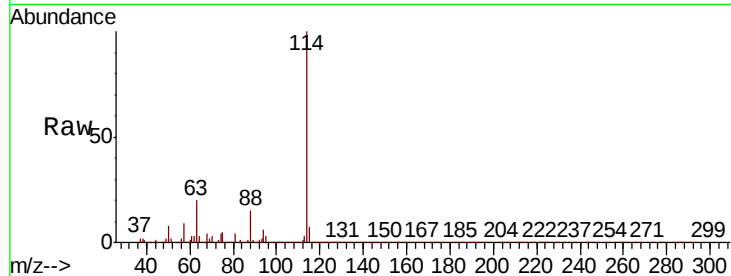
Tot Ion:114 Resp: 1052593

Ion Ratio Lower Upper

114 100

63 19.7 0.0 39.6

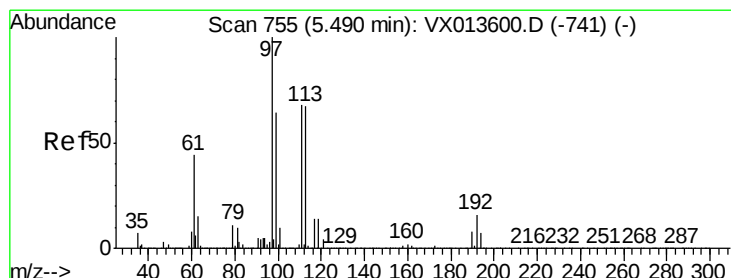
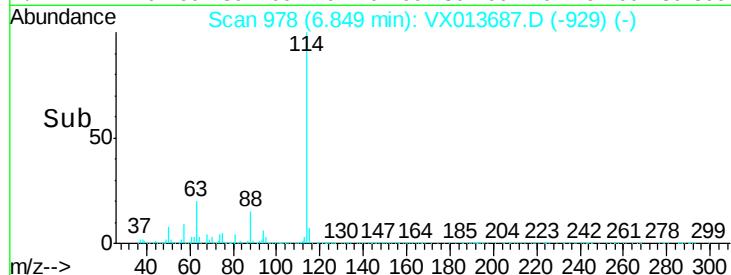
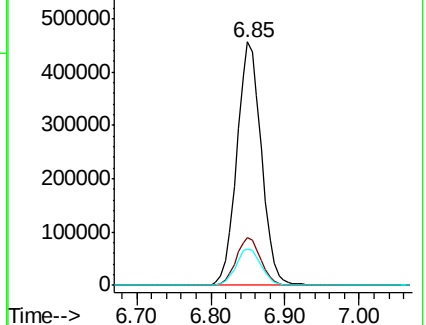
88 15.1 0.0 31.4



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: 48.201 ug/l

RT: 5.49 min Scan# 755

Delta R.T. -0.00 min

Lab File: VX013687.D

Acq: 28 Nov 2019 05:51

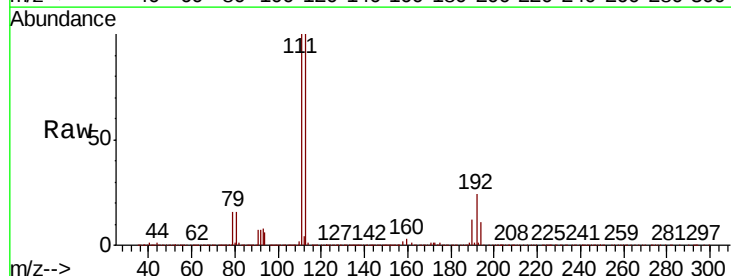
Tgt Ion:113 Resp: 313654

Ion Ratio Lower Upper

113 100

111 101.6 83.6 125.4

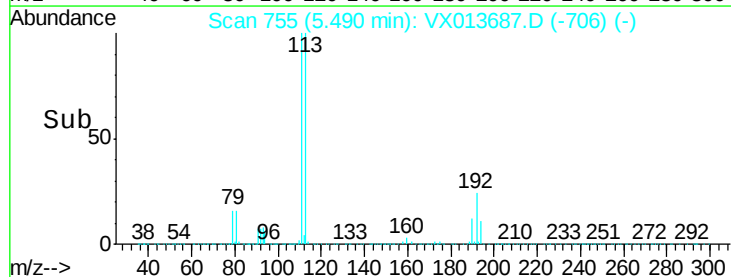
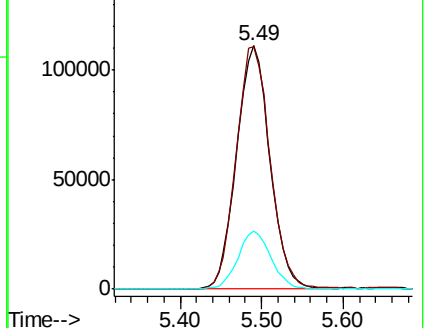
192 24.1 19.2 28.8

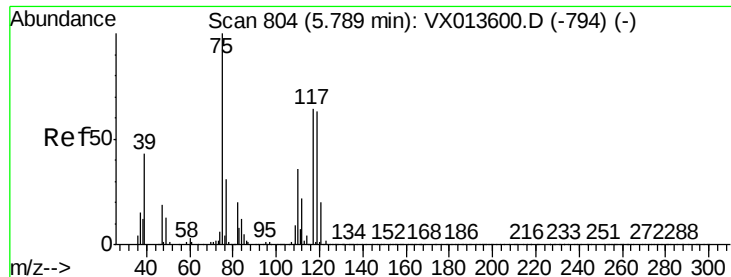


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

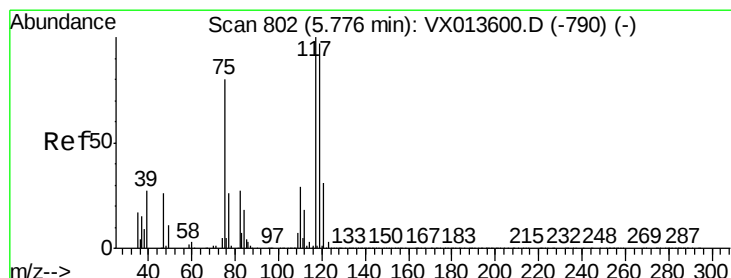
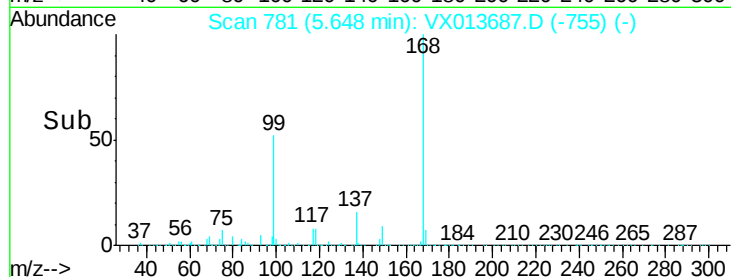
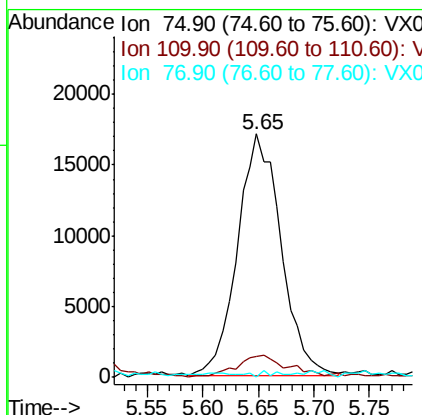
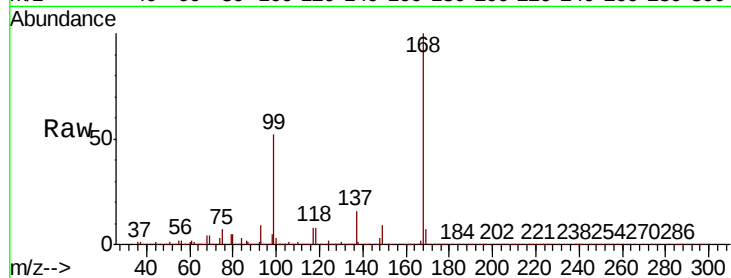




#36
 1,1-Dichloropropene
 Concen: 4.867 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.14 min
 Lab File: VX013687.D
 Acq: 28 Nov 2019 05:51

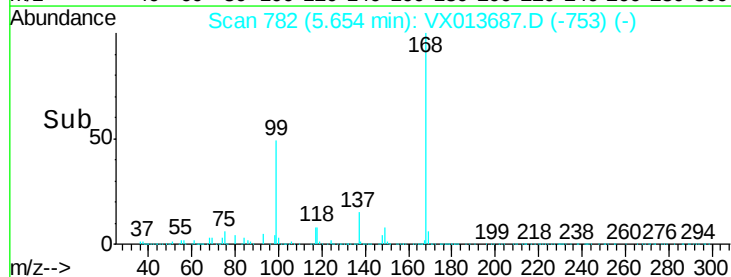
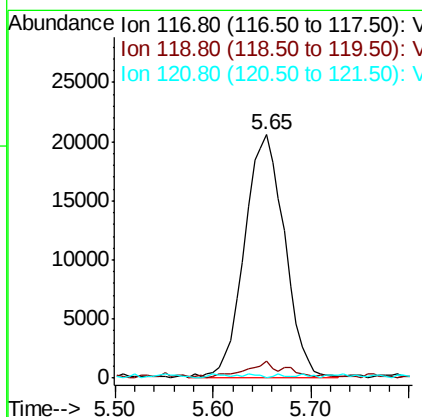
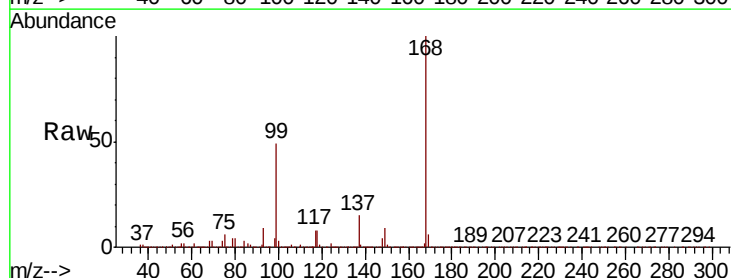
Instrument :
 MSVOA_X
 ClientSampled :
 S39-0188

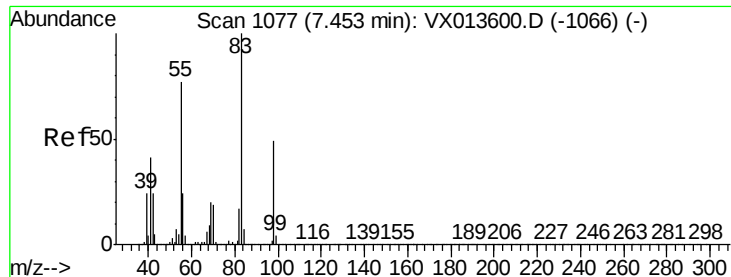
Tot Ion	Ratio	Lower	Upper
75	100		
110	10.9	18.1	54.1#
77	0.5	24.5	36.7#



#38
 Carbon Tetrachloride
 Concen: 6.607 ug/l
 RT: 5.65 min Scan# 782
 Delta R.T. -0.12 min
 Lab File: VX013687.D
 Acq: 28 Nov 2019 05:51

Tgt Ion	Ratio	Lower	Upper
117	100		
119	6.2	77.5	116.3#
121	0.0	25.0	37.6#

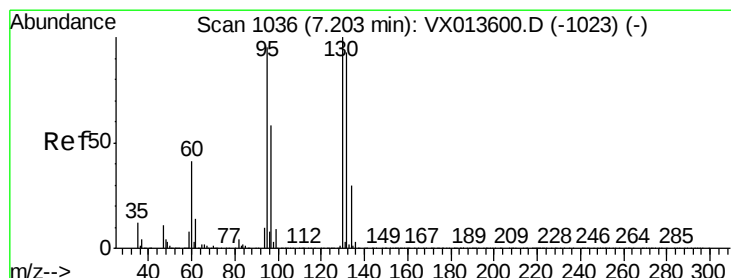
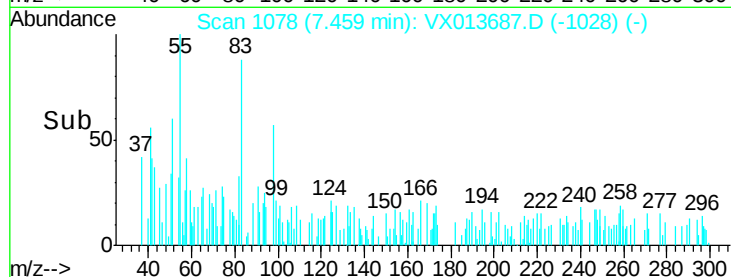
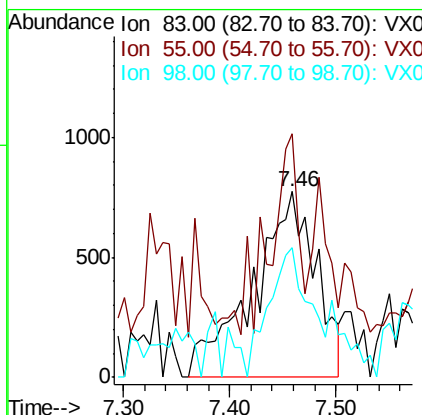
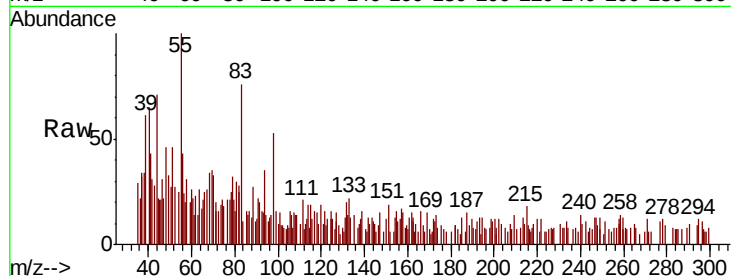




#39
Methvlcvclohexane
Concen: 0.270 ug/l
RT: 7.46 min Scan# 1078
Delta R.T. 0.01 min
Lab File: VX013687.D
Acq: 28 Nov 2019 05:51

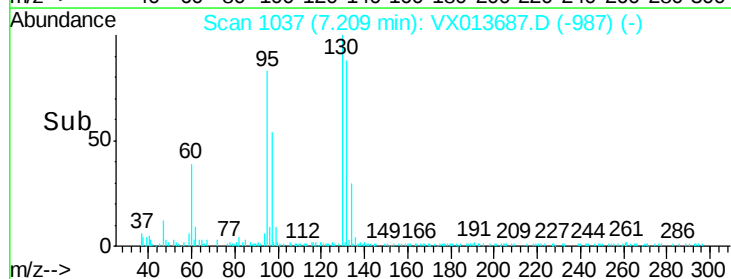
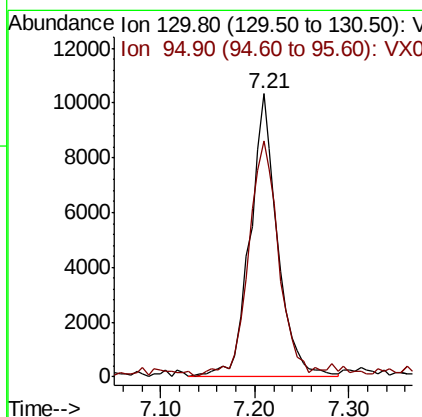
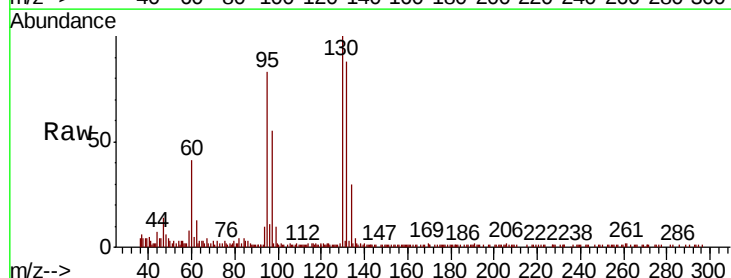
Instrument :
MSVOA_X
ClientSampleId :
S39-0188

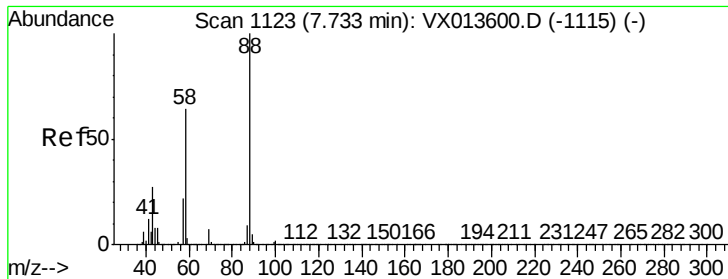
Tot Ion: 83 Resp: 3187
Ion Ratio Lower Upper
83 100
55 109.3 61.9 92.9#
98 45.3 39.4 59.0



#44
Trichloroethene
Concen: 2.648 ug/l
RT: 7.21 min Scan# 1037
Delta R.T. 0.01 min
Lab File: VX013687.D
Acq: 28 Nov 2019 05:51

Tgt Ion:130 Resp: 21147
Ion Ratio Lower Upper
130 100
95 82.1 0.0 190.8





#49

1,4-Dioxane

Concen: 0.881 ug/l

RT: 7.73 min Scan# 1122

Delta R.T. -0.01 min

Lab File: VX013687.D

Acq: 28 Nov 2019 05:51

Instrument :

MSVOA_X

ClientSampleId :

S39-0188

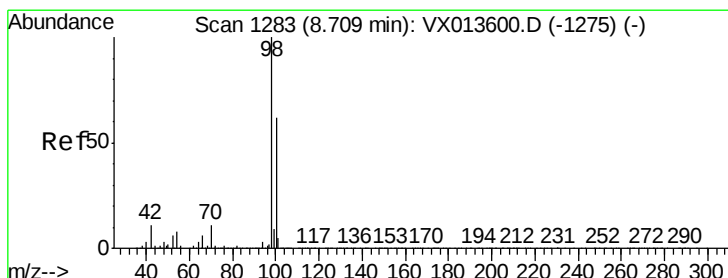
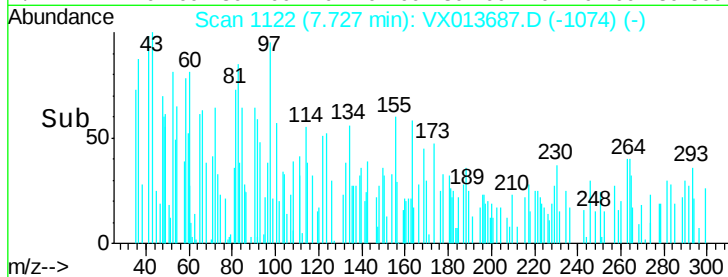
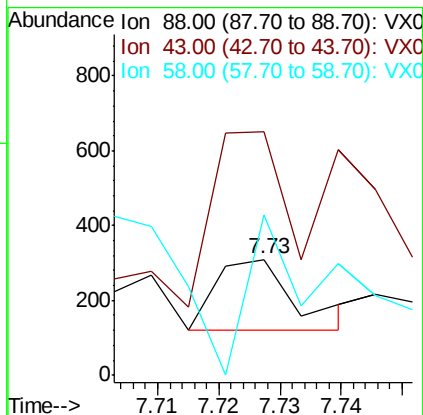
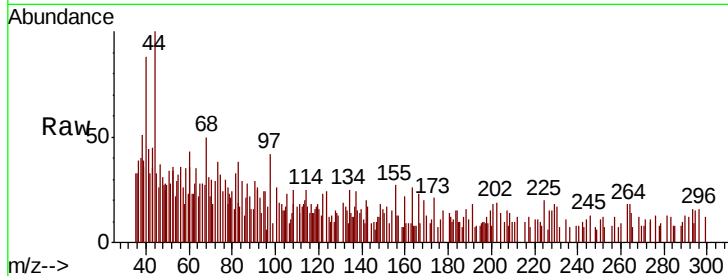
Tot Ion: 88 Resp: 169

Ion Ratio Lower Upper

88 100

43 502.4 25.8 38.6#

58 281.7 54.6 82.0#



#50

Toluene-d8

Concen: 49.183 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VX013687.D

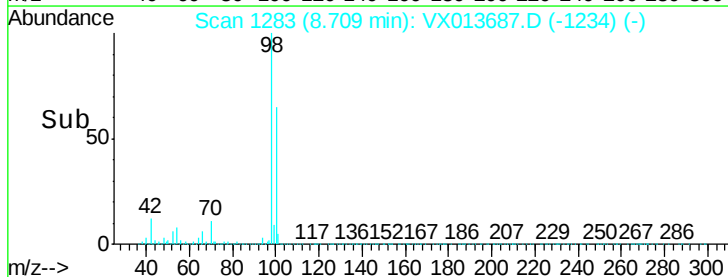
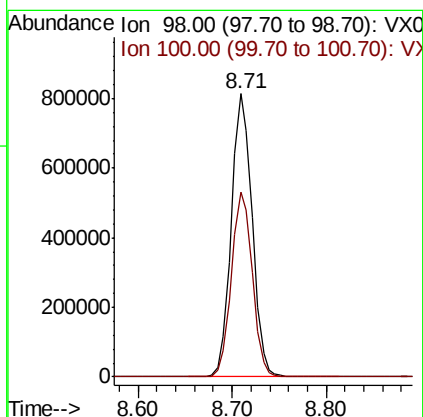
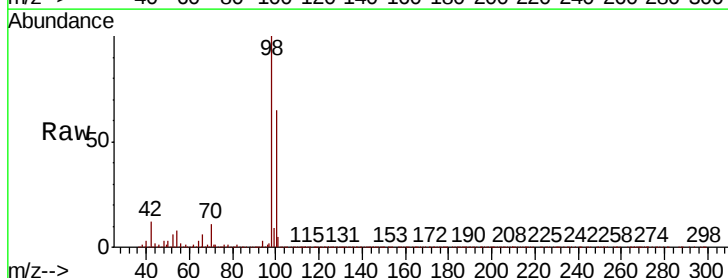
Acq: 28 Nov 2019 05:51

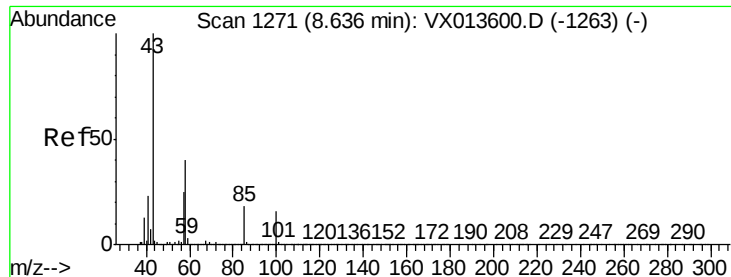
Tgt Ion: 98 Resp: 1246940

Ion Ratio Lower Upper

98 100

100 65.6 53.1 79.7

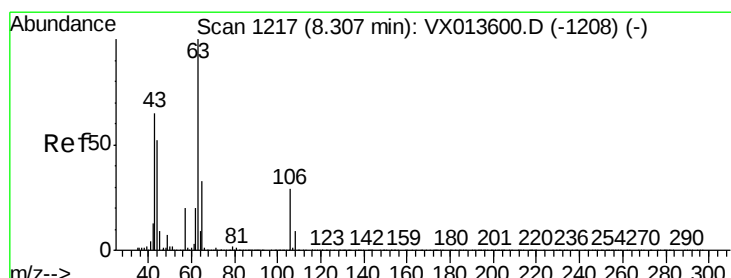
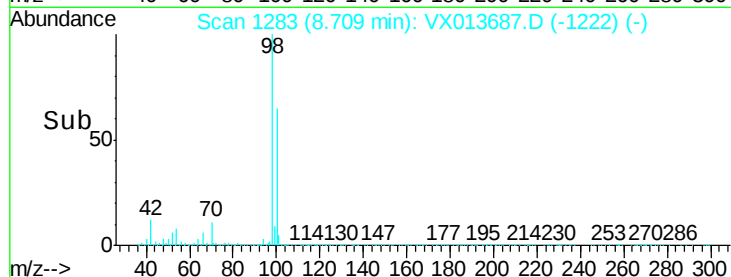
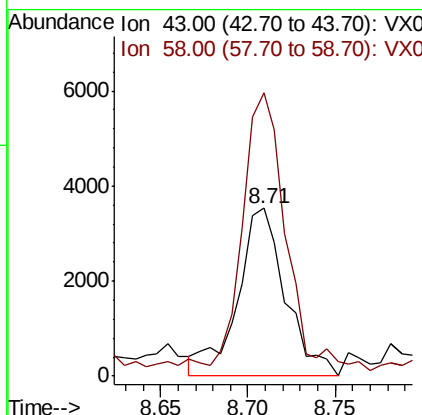
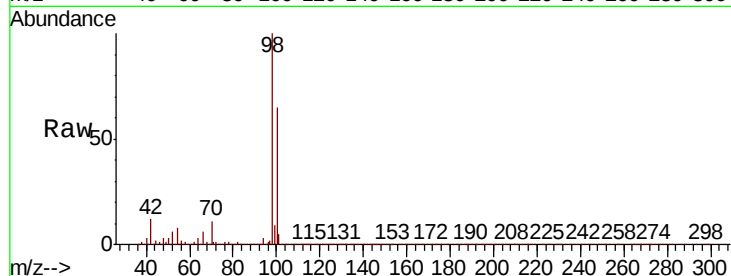




#51
 4-Methyl-2-Pentanone
 Concen: 0.610 ug/l
 RT: 8.71 min Scan# 1283
 Delta R.T. 0.07 min
 Lab File: VX013687.D
 Acq: 28 Nov 2019 05:51

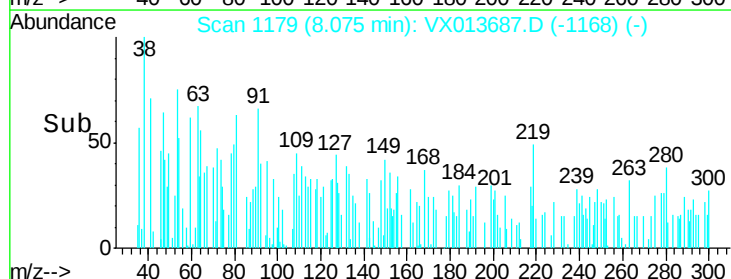
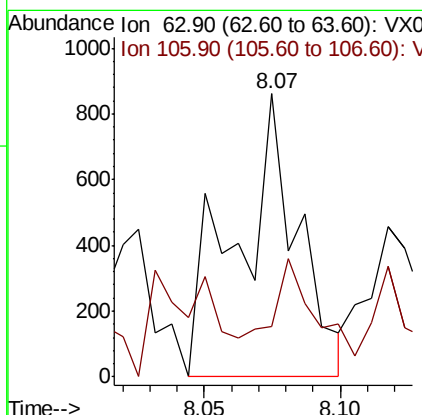
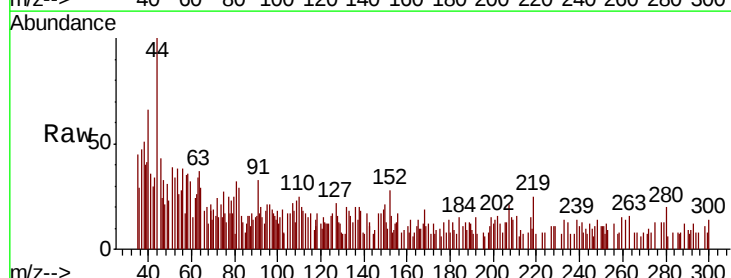
Instrument :
 MSVOA_X
 ClientSampleId :
 S39-0188

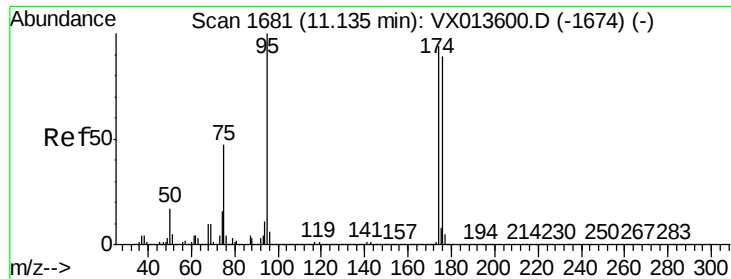
Tot Ion: 43 Resp: 6766
 Ion Ratio Lower Upper
 43 100
 58 151.8 32.1 48.1#



#58
 2-Chloroethyl Vinyl ether
 Concen: 0.292 ug/l
 RT: 8.07 min Scan# 1179
 Delta R.T. -0.23 min
 Lab File: VX013687.D
 Acq: 28 Nov 2019 05:51

Tgt Ion: 63 Resp: 1339
 Ion Ratio Lower Upper
 63 100
 106 31.3 23.4 35.0

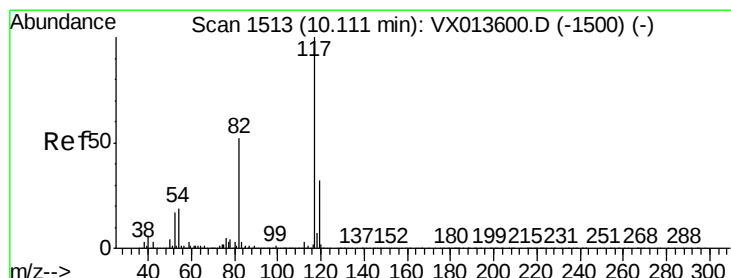
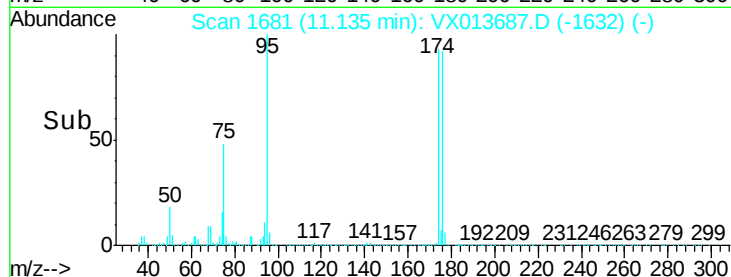
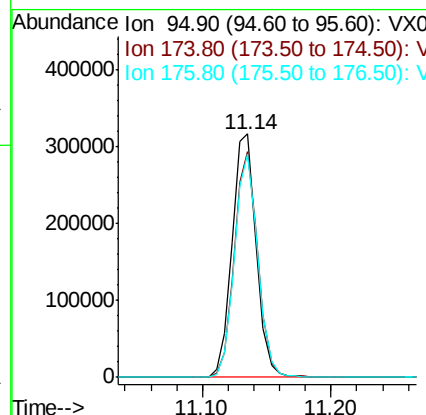
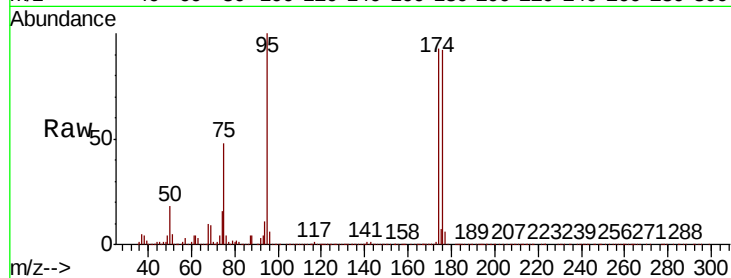




#62
4-Bromofluorobenzene
Concen: 45.774 ug/l
RT: 11.14 min Scan# 1681
Delta R.T. -0.00 min
Lab File: VX013687.D
Acq: 28 Nov 2019 05:51

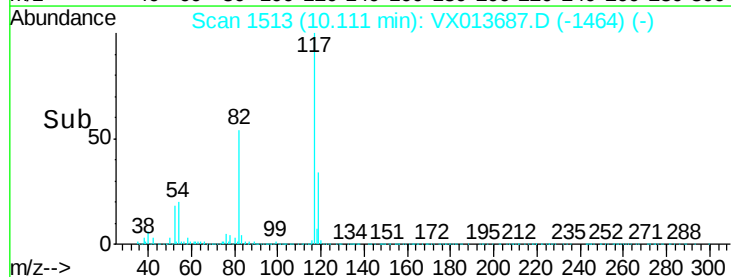
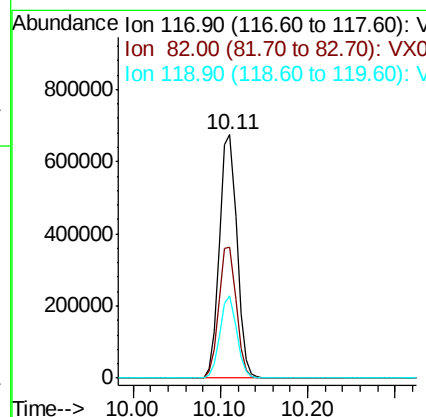
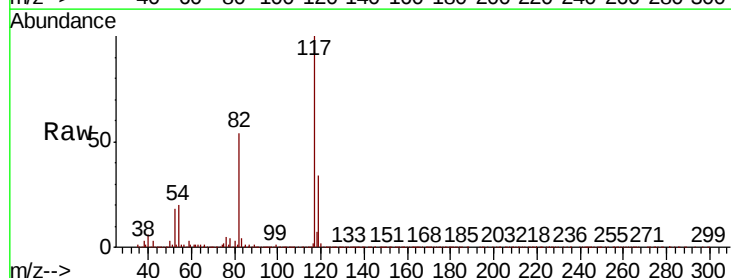
Instrument :
MSVOA_X
ClientSampleId :
S39-0188

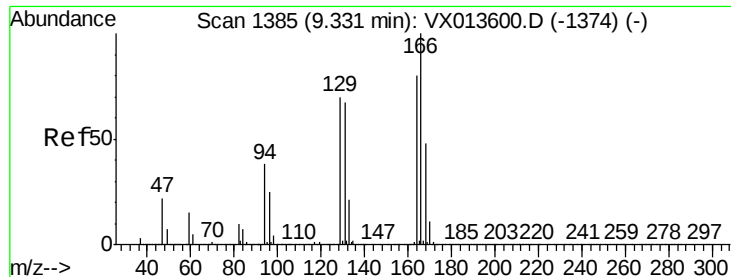
Tot Ion: 95 Resp: 418480
Ion Ratio Lower Upper
95 100
174 89.9 0.0 180.0
176 88.5 0.0 173.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. -0.00 min
Lab File: VX013687.D
Acq: 28 Nov 2019 05:51

Tgt Ion: 117 Resp: 934878
Ion Ratio Lower Upper
117 100
82 53.5 41.8 62.8
119 34.0 25.8 38.8





#64

Tetrachloroethene

Concen: 0.313 ug/l

RT: 9.34 min Scan# 1386

Delta R.T. 0.01 min

Lab File: VX013687.D

Acq: 28 Nov 2019 05:51

Instrument :

MSVOA_X

ClientSampleId :

S39-0188

Tot Ion:164 Resp: 2179

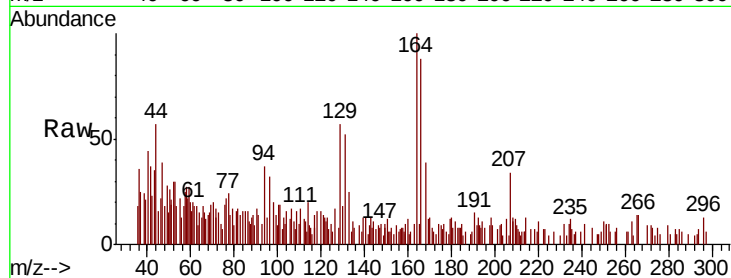
Ion Ratio Lower Upper

164 100

166 82.2 99.7 149.5#

129 50.6 70.1 105.1#

131 49.1 66.9 100.3#

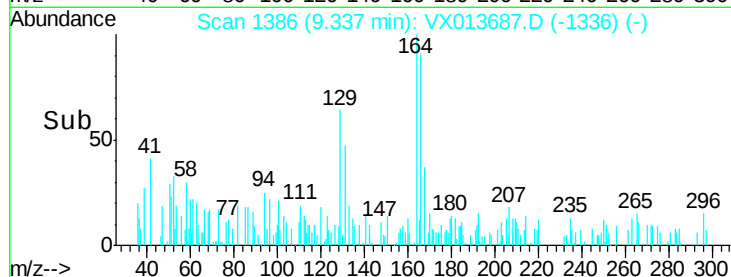


Abundance Ion 163.80 (163.50 to 164.50): V

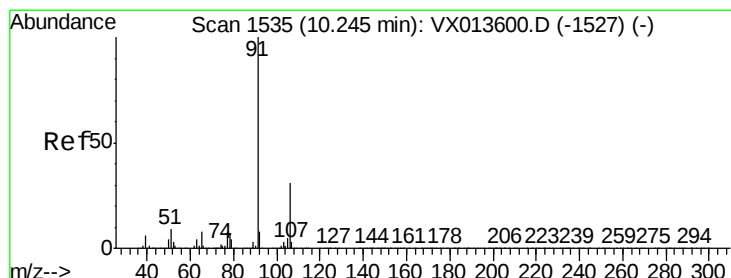
Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



Time-->



#67

Ethyl Benzene

Concen: 0.318 ug/l

RT: 10.25 min Scan# 1536

Delta R.T. 0.01 min

Lab File: VX013687.D

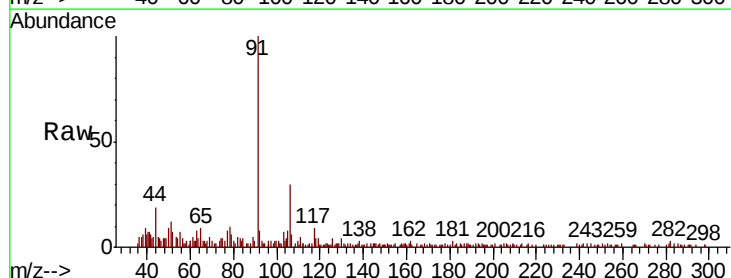
Acq: 28 Nov 2019 05:51

Tgt Ion: 91 Resp: 10606

Ion Ratio Lower Upper

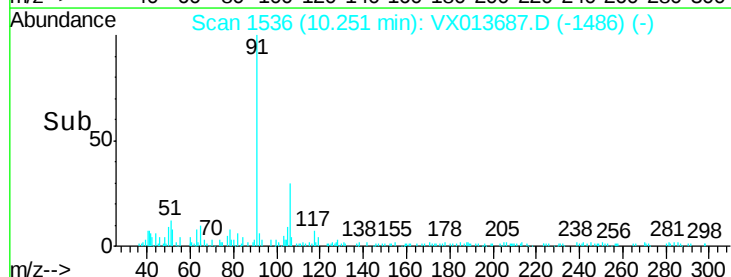
91 100

106 28.8 24.5 36.7

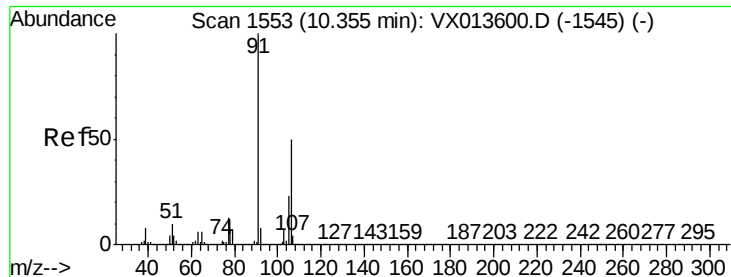


Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 106.00 (105.70 to 106.70): V



Time-->



#68

m/p-Xvlenes

Concen: 0.517 ug/l

RT: 10.36 min Scan# 1554

Delta R.T. 0.01 min

Lab File: VX013687.D

Acq: 28 Nov 2019 05:51

Instrument :

MSVOA_X

ClientSampleId :

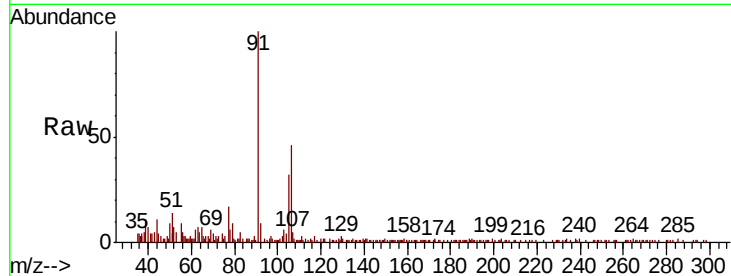
S39-0188

Tot Ion:106 Resp: 6596

Ion Ratio Lower Upper

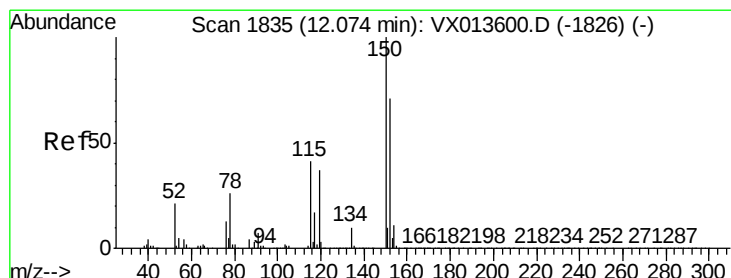
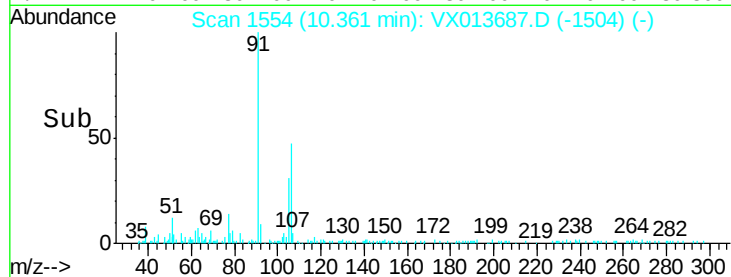
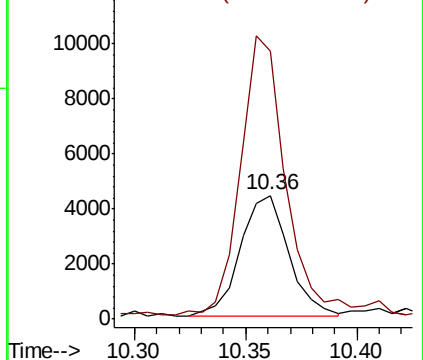
106 100

91 231.9 159.0 238.4



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: 12.07 min Scan# 1835

Delta R.T. -0.00 min

Lab File: VX013687.D

Acq: 28 Nov 2019 05:51

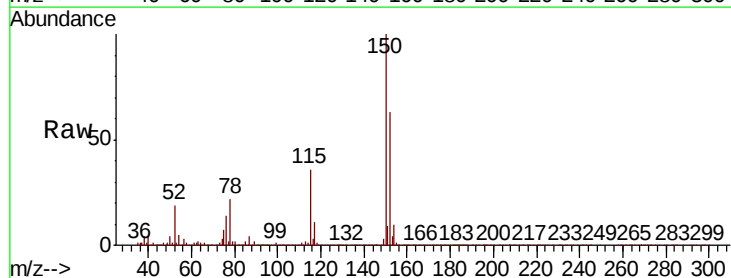
Tgt Ion:152 Resp: 418947

Ion Ratio Lower Upper

152 100

115 55.7 38.4 115.1

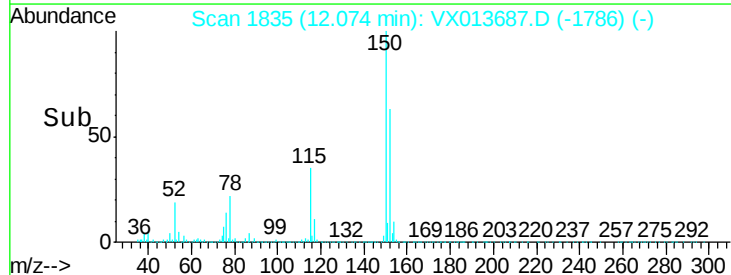
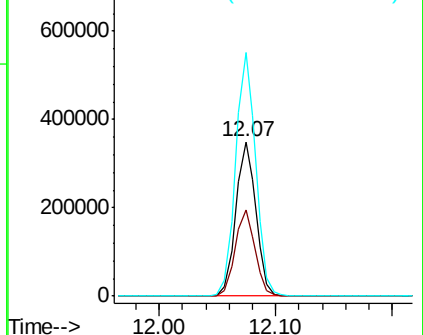
150 157.9 0.0 346.8

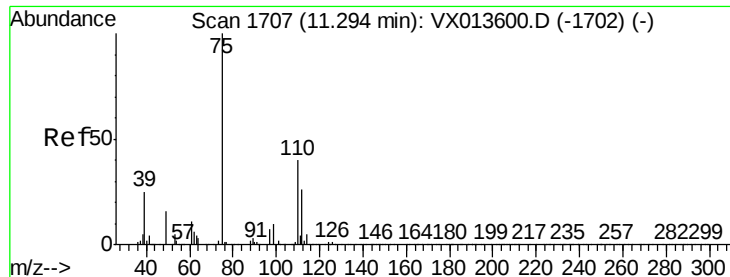


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 21.907 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX013687.D

Acq: 28 Nov 2019 05:51

Instrument :

MSVOA_X

ClientSampleId :

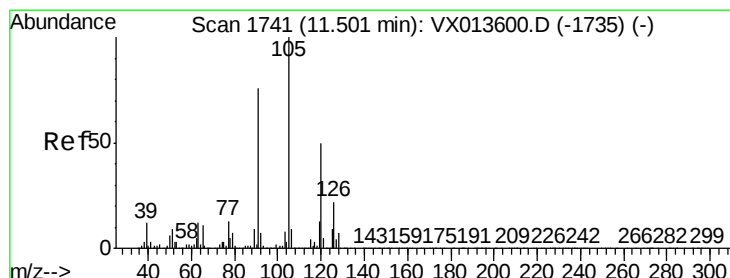
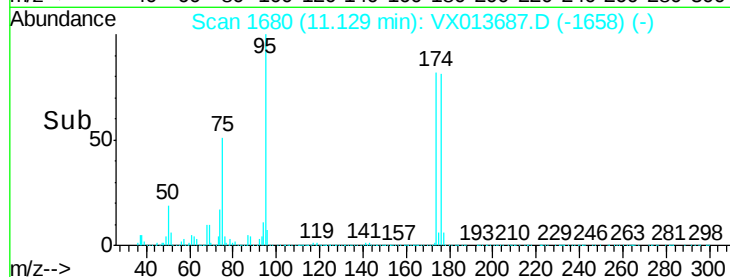
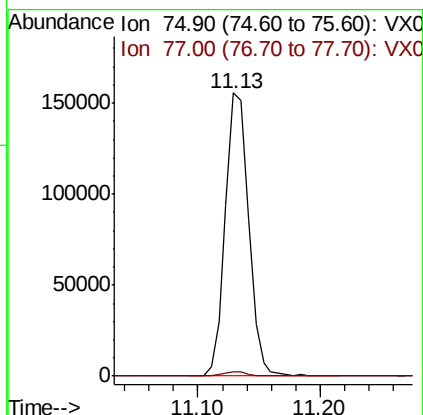
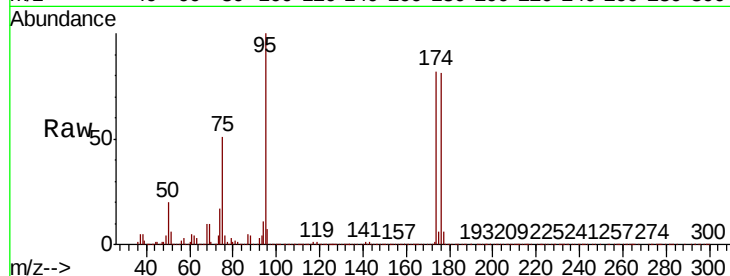
S39-0188

Tot Ion: 75 Resp: 206430

Ion Ratio Lower Upper

75 100

77 1.3 19.1 57.5#



#80

1,3,5-Trimethylbenzene

Concen: 0.201 ug/l

RT: 11.45 min Scan# 1733

Delta R.T. -0.05 min

Lab File: VX013687.D

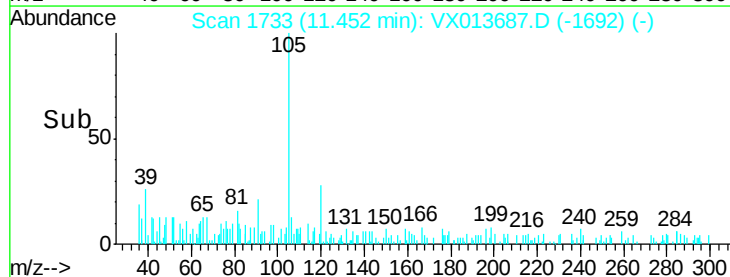
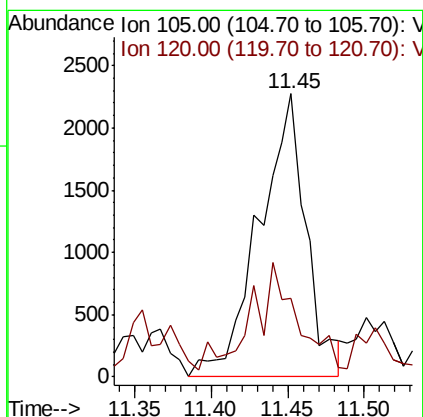
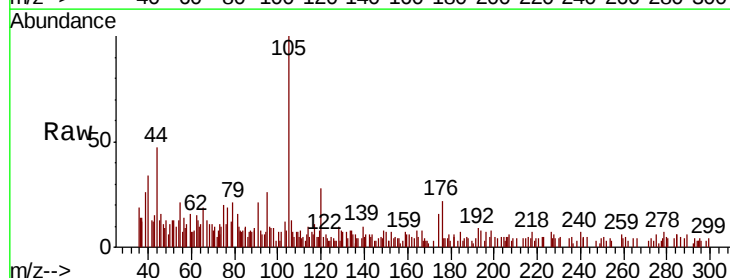
Acq: 28 Nov 2019 05:51

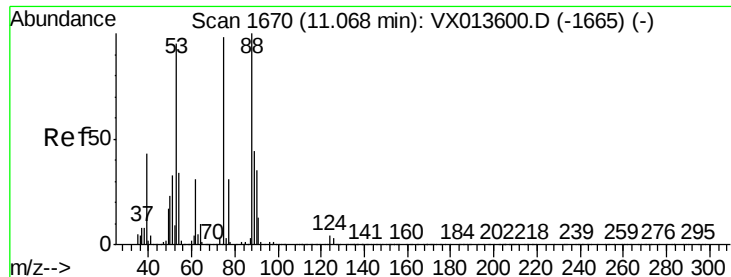
Tgt Ion: 105 Resp: 4848

Ion Ratio Lower Upper

105 100

120 32.6 25.3 75.9





#81

trans-1,4-Dichloro-2-butene

Concen: 59.935 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX013687.D

Acq: 28 Nov 2019 05:51

Instrument :

MSVOA_X

ClientSampleId :

S39-0188

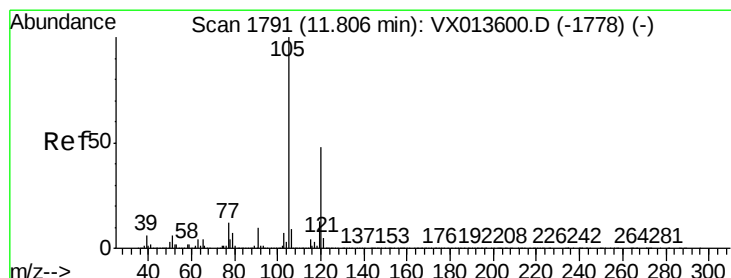
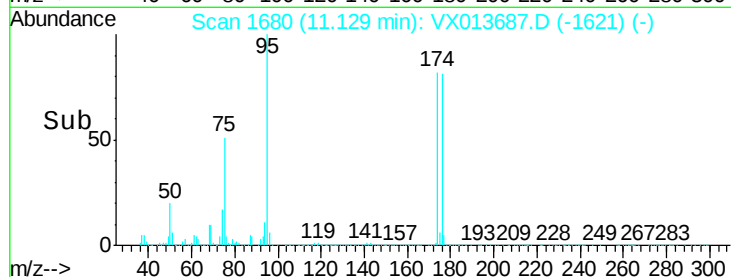
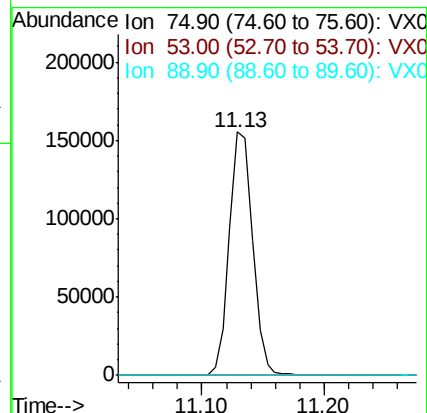
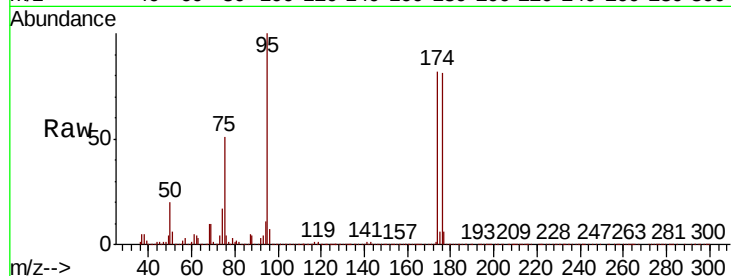
Tot Ion: 75 Resp: 206430

Ion Ratio Lower Upper

75 100

53 0.3 78.2 117.2#

89 0.1 35.4 53.2#



#84

1,2,4-Trimethylbenzene

Concen: 0.455 ug/l

RT: 11.81 min Scan# 1791

Delta R.T. -0.00 min

Lab File: VX013687.D

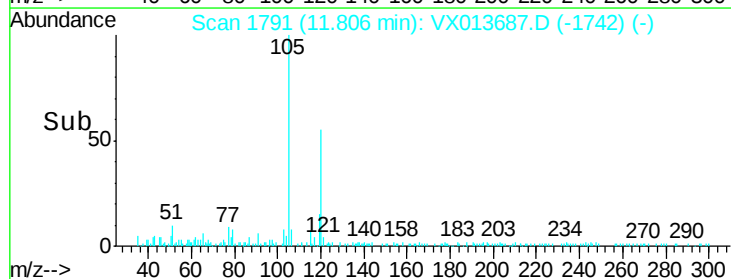
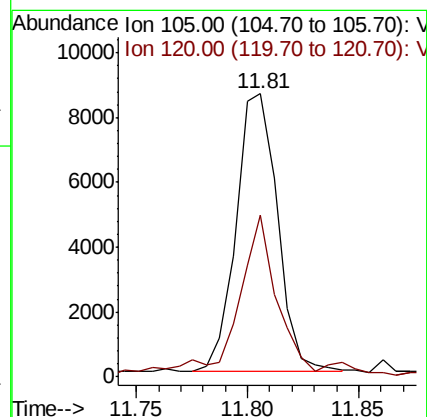
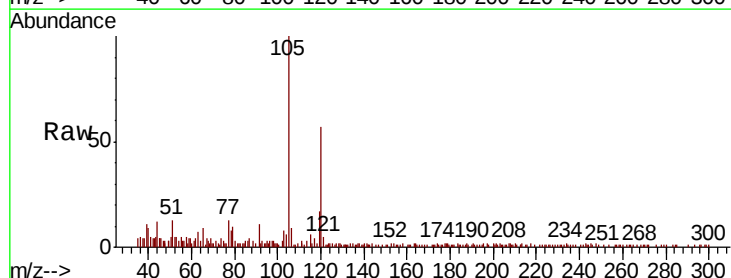
Acq: 28 Nov 2019 05:51

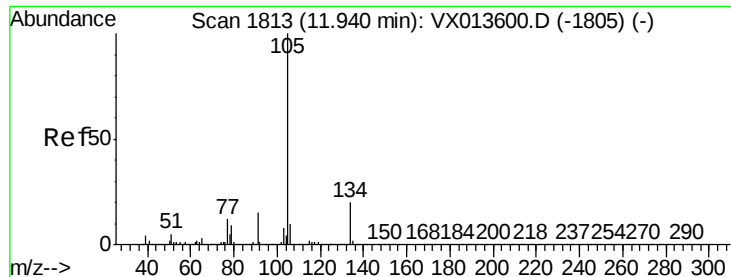
Tgt Ion: 105 Resp: 11131

Ion Ratio Lower Upper

105 100

120 55.2 23.1 69.3





#85

sec-Butylbenzene

Concen: 1.535 ug/l

RT: 11.94 min Scan# 1813

Delta R.T. -0.00 min

Lab File: VX013687.D

Acq: 28 Nov 2019 05:51

Instrument :

MSVOA_X

ClientSampleId :

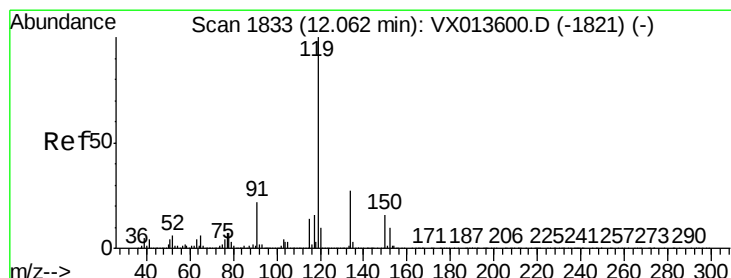
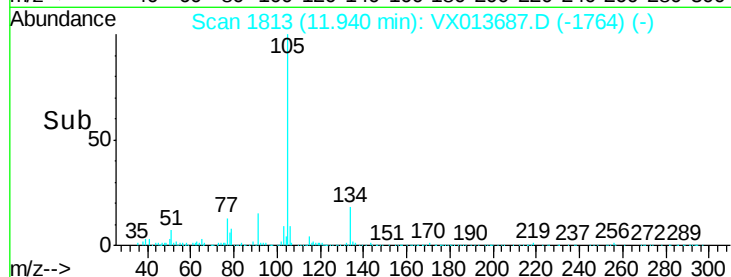
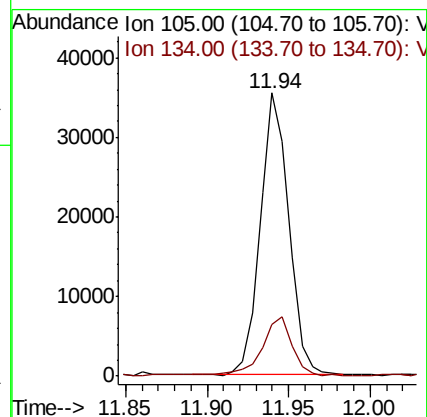
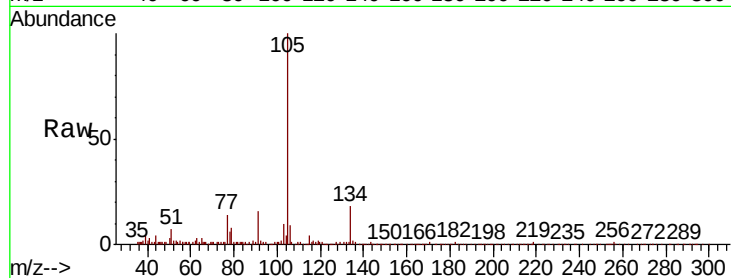
S39-0188

Tot Ion:105 Resp: 42918

Ion Ratio Lower Upper

105 100

134 22.8 10.4 31.2



#86

p-Isopropyltoluene

Concen: 0.422 ug/l

RT: 12.23 min Scan# 1860

Delta R.T. 0.16 min

Lab File: VX013687.D

Acq: 28 Nov 2019 05:51

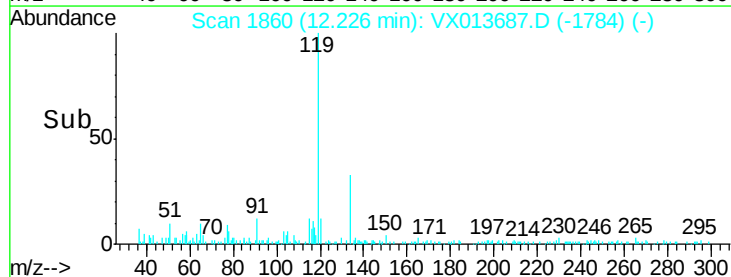
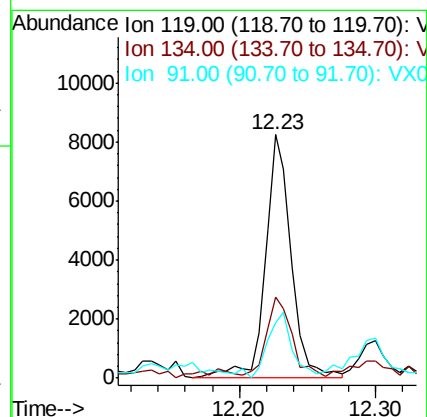
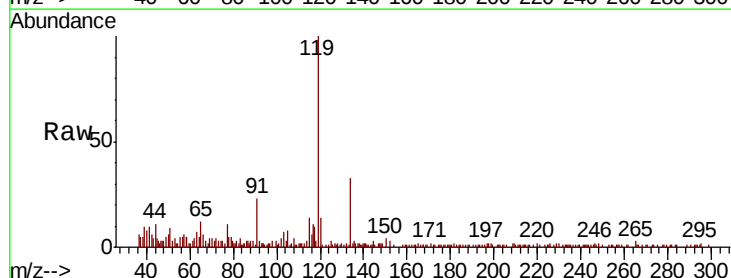
Tgt Ion:119 Resp: 10976

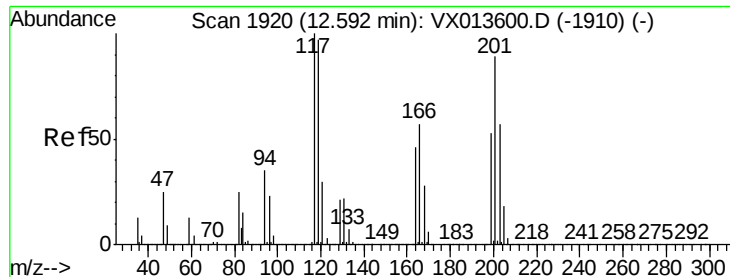
Ion Ratio Lower Upper

119 100

134 30.9 13.3 39.9

91 25.1 11.3 33.8





#90

Hexachloroethane

Concen: 0.412 ug/l

RT: 12.70 min Scan# 1937

Delta R.T. 0.10 min

Lab File: VX013687.D

Acq: 28 Nov 2019 05:51

Instrument :

MSVOA_X

ClientSampled :

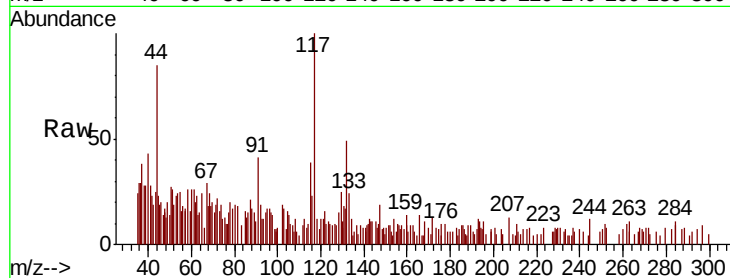
S39-0188

Tot Ion:117 Resp: 1937

Ion Ratio Lower Upper

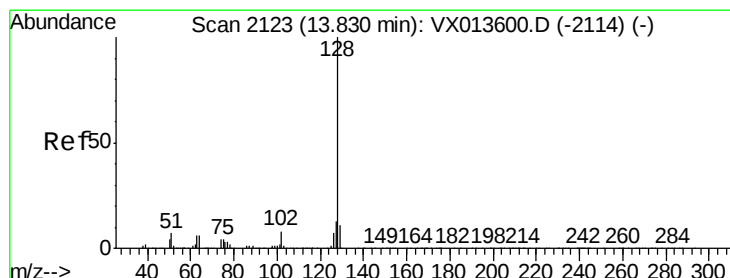
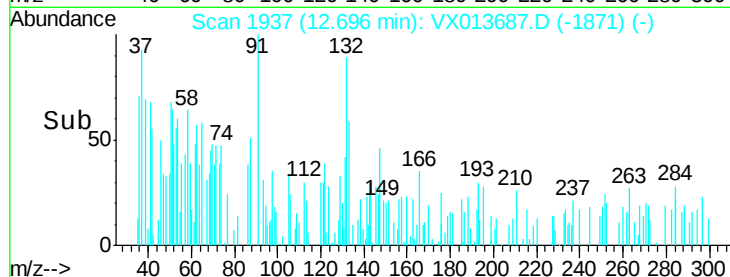
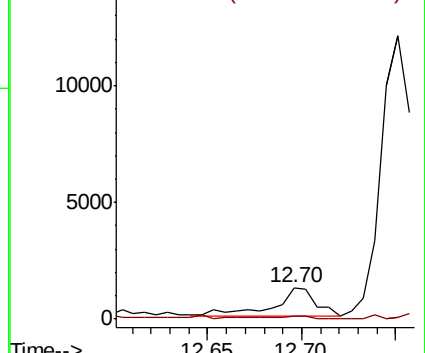
117 100

201 6.8 44.1 132.4#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#95

Naphthalene

Concen: 0.446 ug/l

RT: 13.83 min Scan# 2123

Delta R.T. -0.00 min

Lab File: VX013687.D

Acq: 28 Nov 2019 05:51

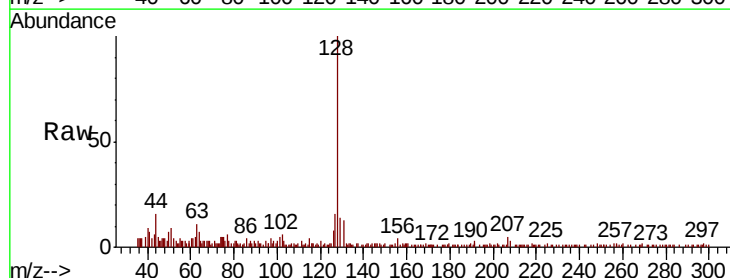
Tgt Ion:128 Resp: 12648

Ion Ratio Lower Upper

128 100

127 14.7 10.3 15.5

129 23.3 8.7 13.1#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

