

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX112719\
 Data File : VX013677.D
 Acq On : 28 Nov 2019 01:58
 Operator : JC/SP
 Sample : K6027-11
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 40 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-9

Quant Time: Nov 28 04:22:52 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	693634	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	1092249	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	966159	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	456025	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	383553	47.64	ug/l	0.00
Spiked Amount			Recovery	=	95.28%	
35) Dibromofluoromethane	5.49	113	318992	47.24	ug/l	0.00
Spiked Amount			Recovery	=	94.48%	
50) Toluene-d8	8.71	98	1285832	48.88	ug/l	0.00
Spiked Amount			Recovery	=	97.76%	
62) 4-Bromofluorobenzene	11.14	95	440643	46.45	ug/l	0.00
Spiked Amount			Recovery	=	92.90%	

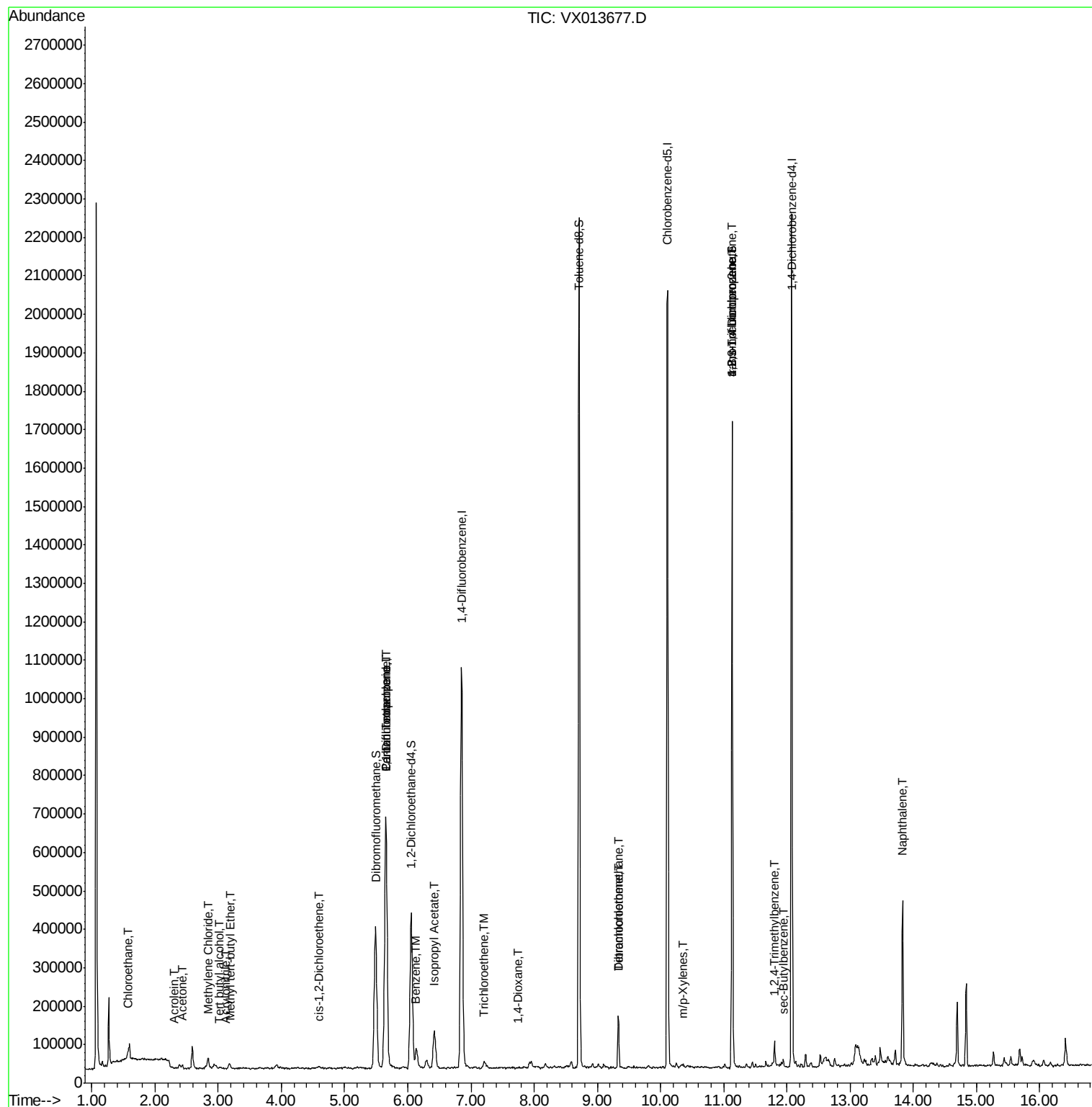
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) Chloroethane	1.56	64	25837	4.657	ug/l #	61
11) Tert butyl alcohol	3.03	59	2916	1.467	ug/l #	78
13) Acrolein	2.30	56	147	6.112	ug/l #	15
15) Acrylonitrile	3.12	53	931	0.227	ug/l #	31
16) Acetone	2.43	43	10343	2.602	ug/l #	77
19) Methyl tert-butyl Ether	3.19	73	12963	0.593	ug/l #	89
20) Methylene Chloride	2.85	84	1769	0.232	ug/l #	25
27) cis-1,2-Dichloroethene	4.59	96	4871	0.590	ug/l	76
36) 1,1-Dichloropropene	5.65	75	45189	4.558	ug/l #	50
38) Carbon Tetrachloride	5.65	117	60174	6.582	ug/l #	16
40) Benzene	6.14	78	61977	2.052	ug/l	97
43) Isopropyl Acetate	6.43	43	37506	2.048	ug/l #	17
44) Trichloroethene	7.21	130	8630	1.041	ug/l	81
49) 1,4-Dioxane	7.74	88	701	3.520	ug/l #	34
60) Dibromochloromethane	9.33	129	23511	2.997	ug/l #	11
64) Tetrachloroethene	9.33	164	28922	4.014	ug/l	85
68) m/p-Xylenes	10.35	106	2689	0.204	ug/l #	62
76) 1,2,3-Trichloropropane	11.13	75	217210	21.177	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.13	75	217210	57.937	ug/l #	11
84) 1,2,4-Trimethylbenzene	11.81	105	28810	1.083	ug/l	96
85) sec-Butylbenzene	11.94	105	10360	0.340	ug/l	95
95) Naphthalene	13.83	128	306713	9.929	ug/l	100

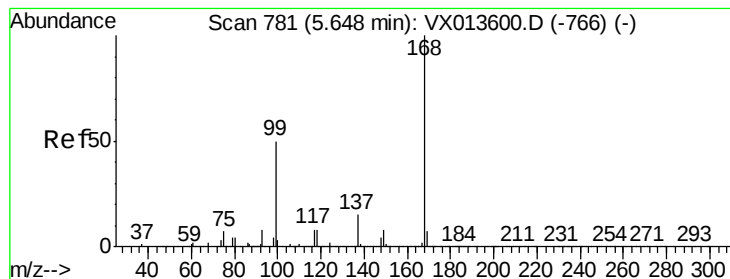
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX112719\
Data File : VX013677.D
Acq On : 28 Nov 2019 01:58
Operator : JC/SP
Sample : K6027-11
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 40 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
MW-9

Quant Time: Nov 28 04:22:52 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X112619W.M
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: VX013677.D

Acq: 28 Nov 2019 01:58

Instrument :

MSVOA_X

ClientSampled :

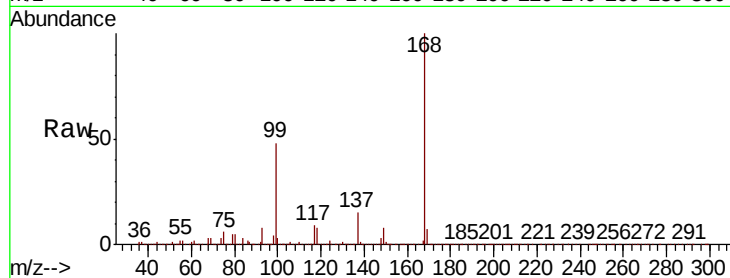
MW-9

Tot Ion:168 Resp: 693634

Ion Ratio Lower Upper

168 100

99 48.3 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

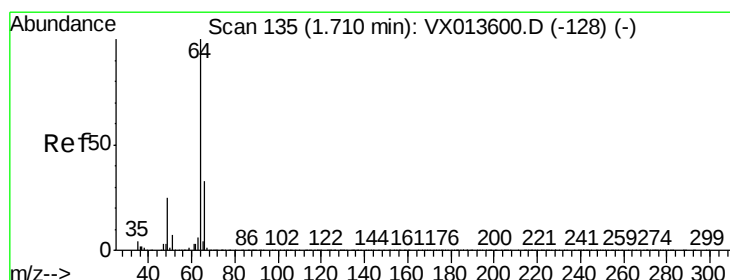
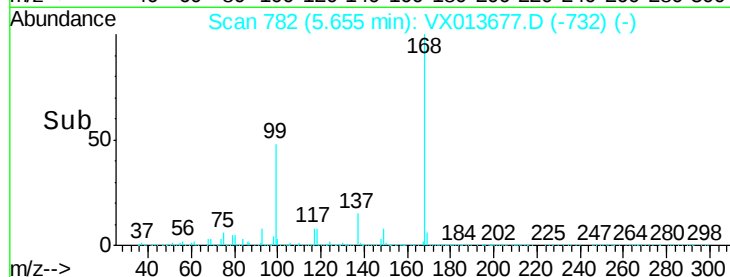
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#6

Chloroethane

Concen: 4.657 ug/l

RT: 1.56 min Scan# 111

Delta R.T. -0.15 min

Lab File: VX013677.D

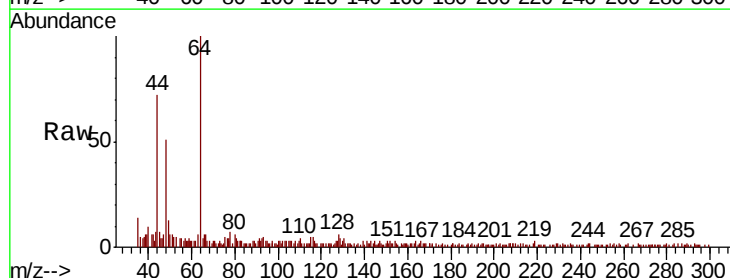
Acq: 28 Nov 2019 01:58

Tgt Ion: 64 Resp: 25837

Ion Ratio Lower Upper

64 100

66 11.3 26.7 40.1#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

10000

8000

6000

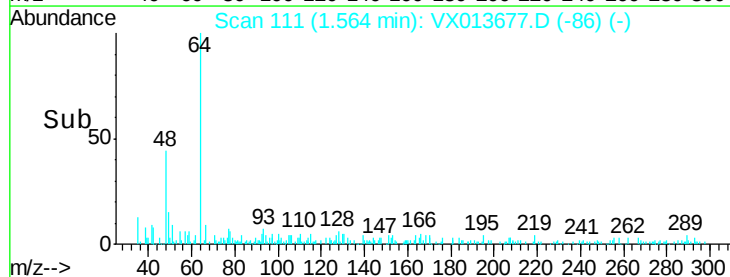
4000

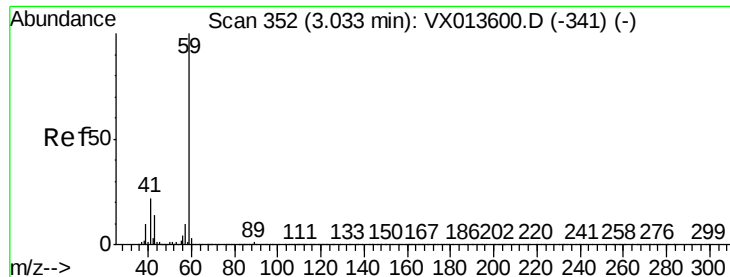
2000

0

Time-->

1.40 1.50 1.60



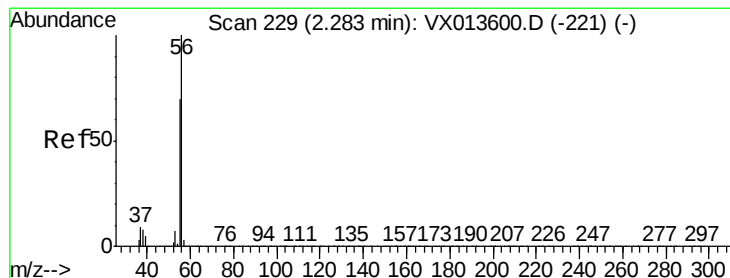
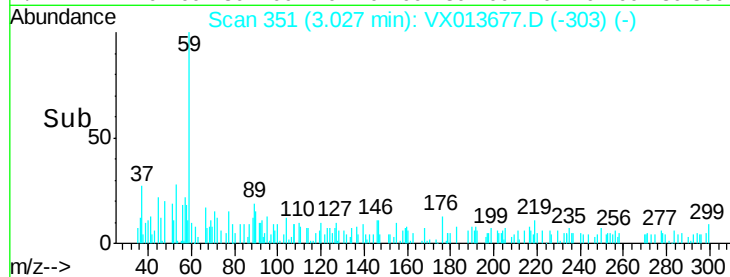
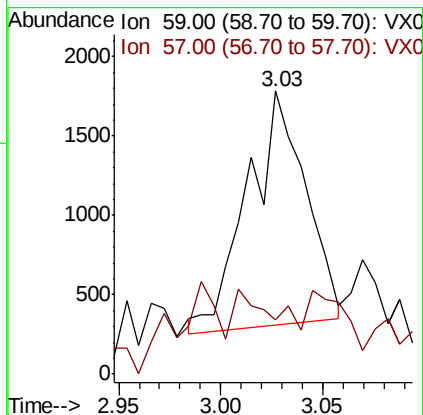
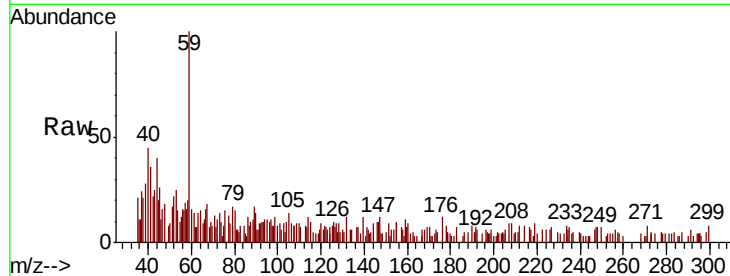


#11

Tert butyl alcohol
 Concen: 1.467 ug/l
 RT: 3.03 min Scan# 351
 Delta R.T. -0.01 min
 Lab File: VX013677.D
 Acq: 28 Nov 2019 01:58

Instrument :
 MSVOA_X
 ClientSampled :
 MW-9

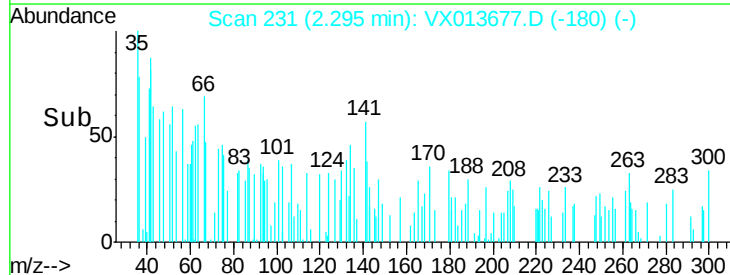
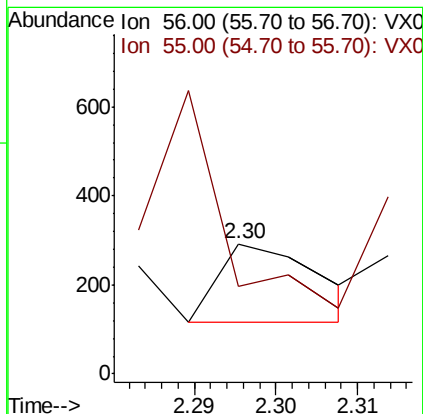
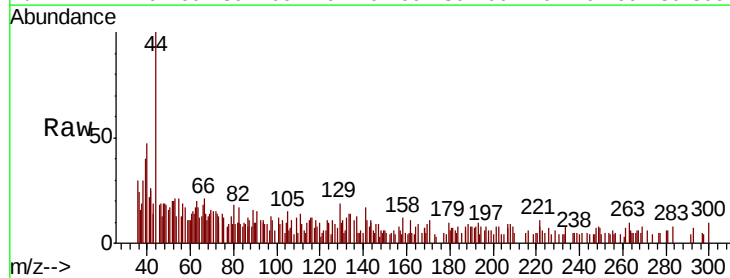
Tot Ion: 59 Resp: 2916
 Ion Ratio Lower Upper
 59 100
 57 17.6 7.8 11.6#

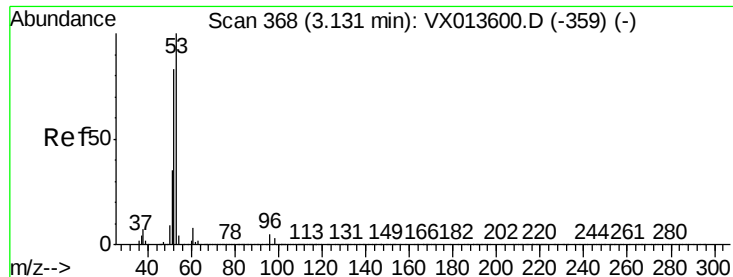


#13

Acrolein
 Concen: 6.112 ug/l
 RT: 2.30 min Scan# 231
 Delta R.T. 0.01 min
 Lab File: VX013677.D
 Acq: 28 Nov 2019 01:58

Tgt Ion: 56 Resp: 147
 Ion Ratio Lower Upper
 56 100
 55 0.0 56.2 84.4#





#15

Acrylonitrile

Concen: 0.227 ug/l

RT: 3.12 min Scan# 367

Delta R.T. -0.01 min

Lab File: VX013677.D

Acq: 28 Nov 2019 01:58

Instrument :

MSVOA_X

ClientSampled :

MW-9

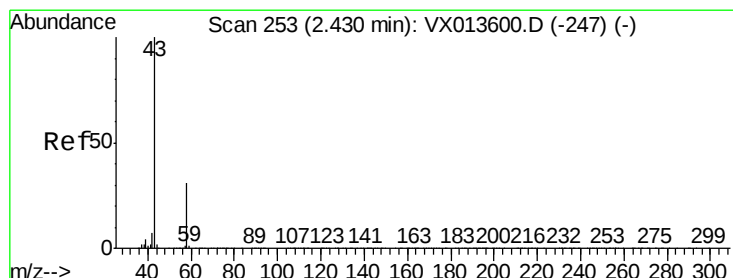
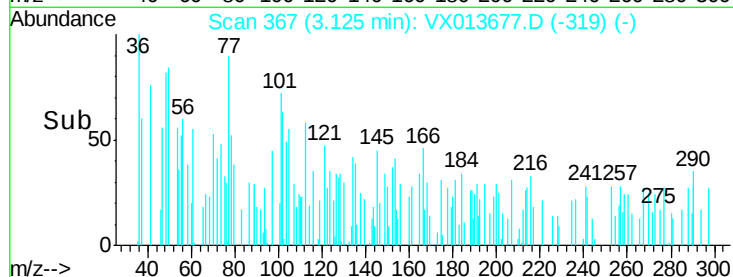
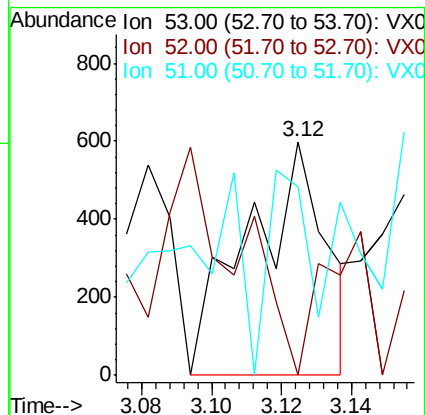
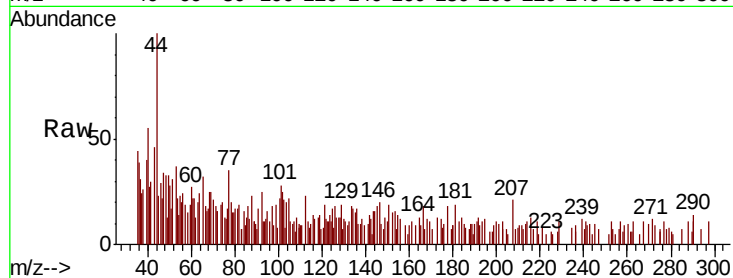
Tot Ion: 53 Resp: 931

Ion Ratio Lower Upper

53 100

52 0.0 66.2 99.2#

51 45.6 29.0 43.6#



#16

Acetone

Concen: 2.602 ug/l

RT: 2.43 min Scan# 253

Delta R.T. 0.00 min

Lab File: VX013677.D

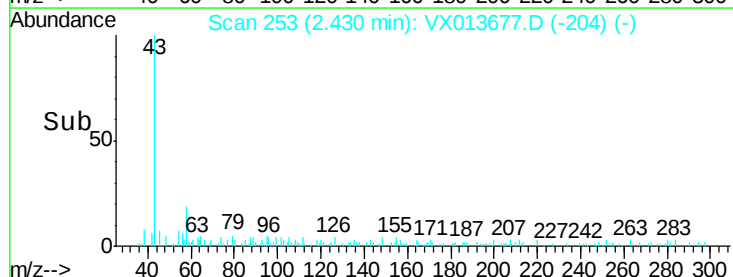
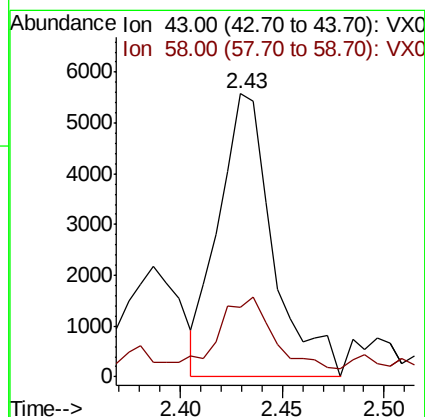
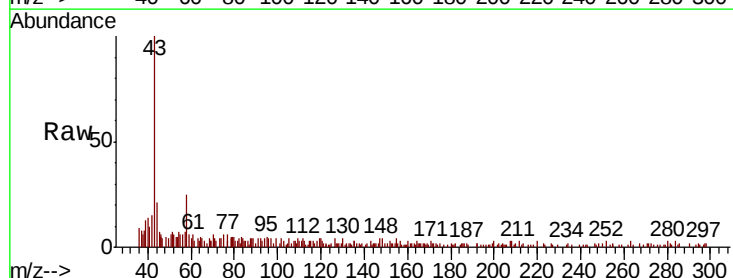
Acq: 28 Nov 2019 01:58

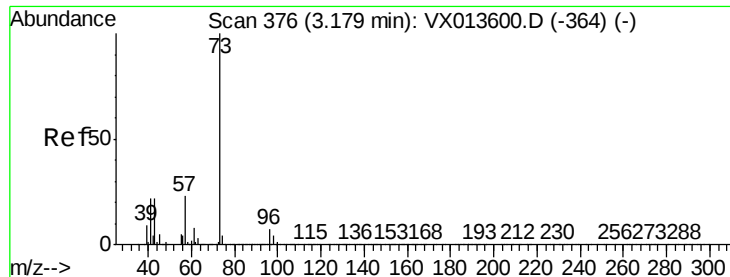
Tgt Ion: 43 Resp: 10343

Ion Ratio Lower Upper

43 100

58 18.0 24.6 36.8#



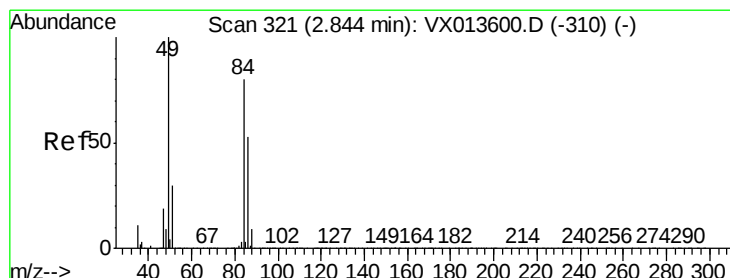
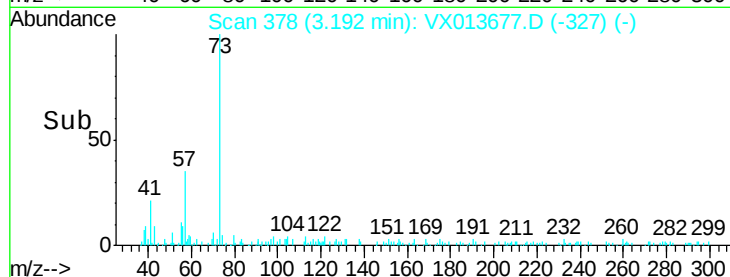
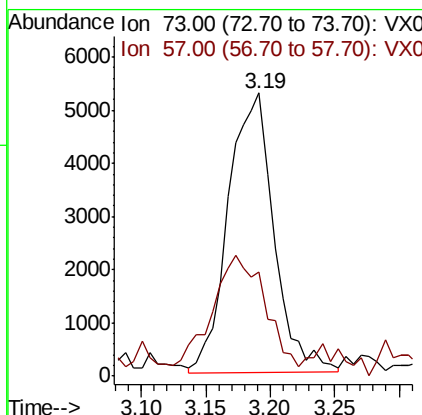
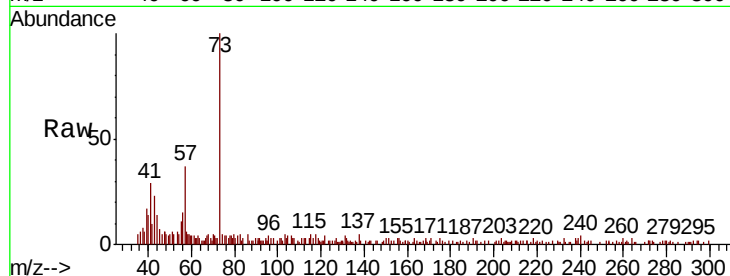


#19

Methyl tert-butyl Ether
 Concen: 0.593 ug/l
 RT: 3.19 min Scan# 378
 Delta R.T. 0.01 min
 Lab File: VX013677.D
 Acq: 28 Nov 2019 01:58

Instrument :
 MSVOA_X
 ClientSampled :
 MW-9

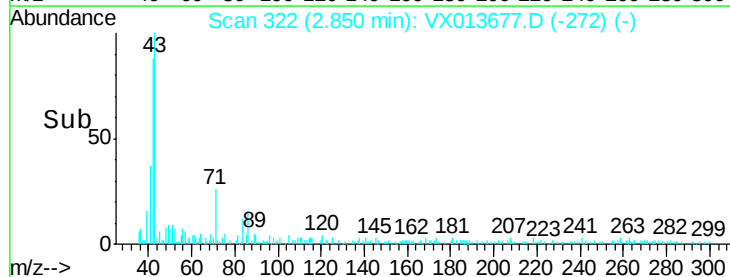
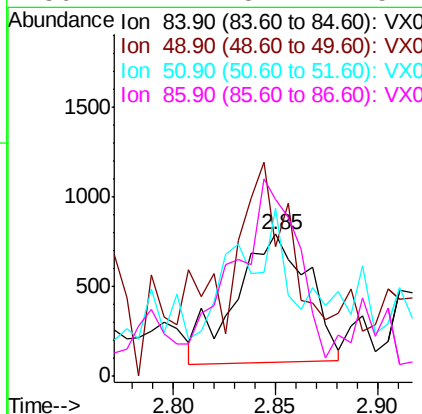
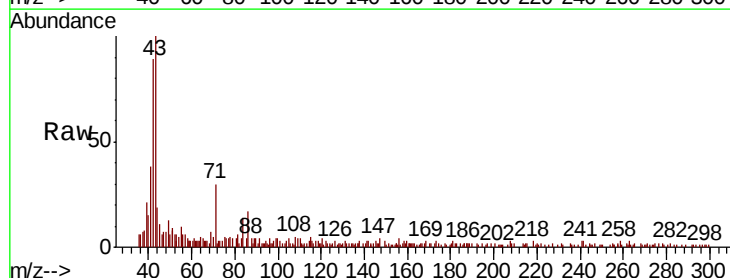
Tot Ion: 73 Resp: 12963
 Ion Ratio Lower Upper
 73 100
 57 28.0 18.3 27.5#

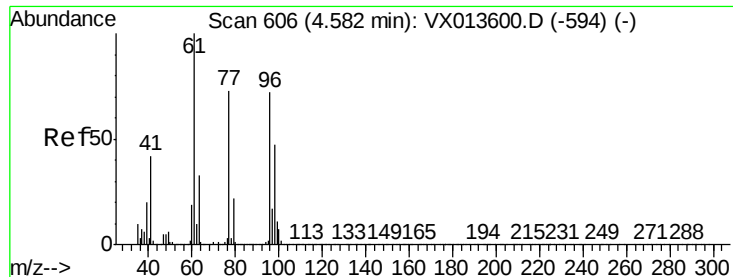


#20

Methylene Chloride
 Concen: 0.232 ug/l
 RT: 2.85 min Scan# 322
 Delta R.T. 0.01 min
 Lab File: VX013677.D
 Acq: 28 Nov 2019 01:58

Tgt Ion: 84 Resp: 1769
 Ion Ratio Lower Upper
 84 100
 49 57.5 99.7 149.5#
 51 112.3 29.9 44.9#
 86 124.7 52.2 78.4#



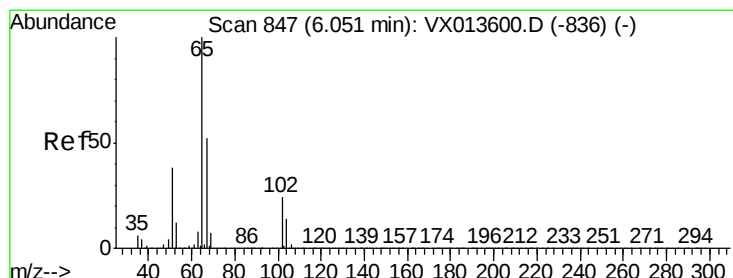
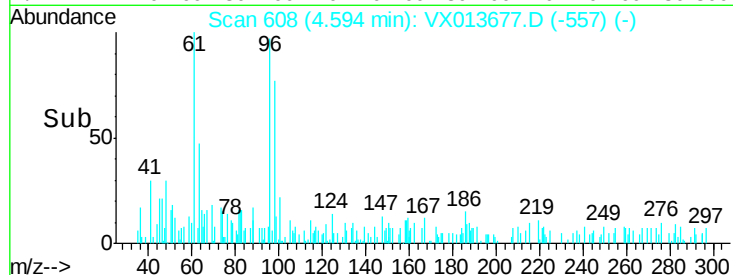
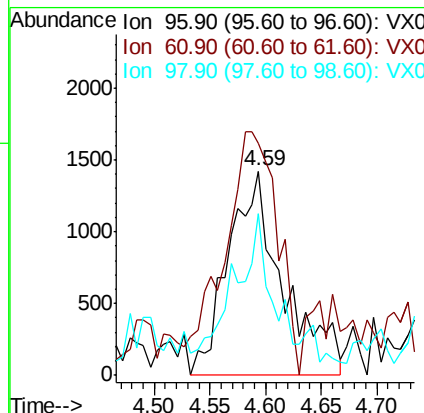
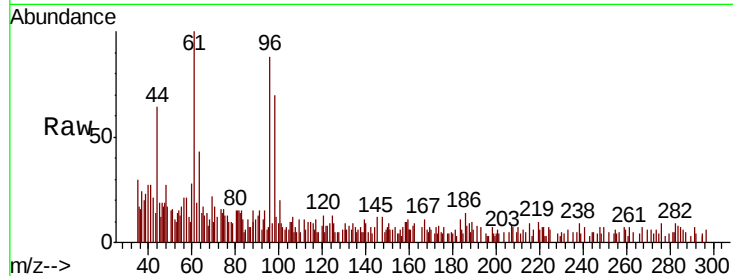


#27

cis-1,2-Dichloroethene
 Concen: 0.590 ug/l
 RT: 4.59 min Scan# 608
 Delta R.T. 0.01 min
 Lab File: VX013677.D
 Acq: 28 Nov 2019 01:58

Instrument :
 MSVOA_X
 ClientSampled :
 MW-9

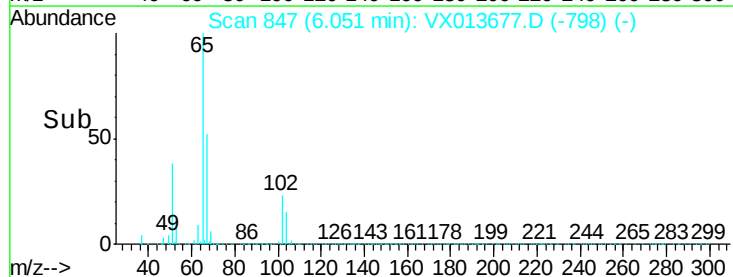
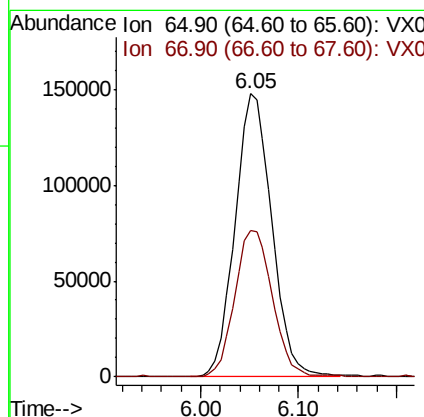
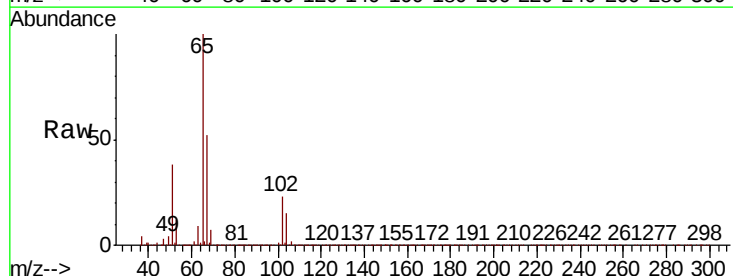
Tot Ion: 96 Resp: 4871
 Ion Ratio Lower Upper
 96 100
 61 116.7 0.0 286.4
 98 39.6 0.0 127.4

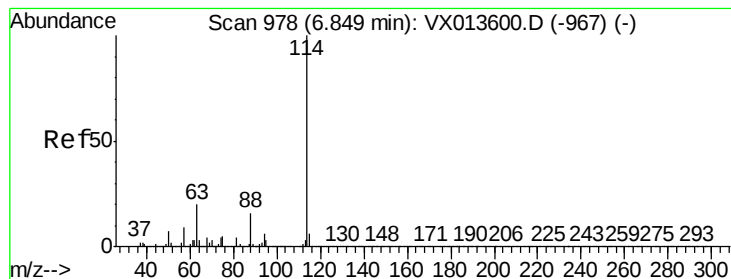


#33

1,2-Dichloroethane-d4
 Concen: 47.637 ug/l
 RT: 6.05 min Scan# 847
 Delta R.T. 0.00 min
 Lab File: VX013677.D
 Acq: 28 Nov 2019 01:58

Tgt Ion: 65 Resp: 383553
 Ion Ratio Lower Upper
 65 100
 67 53.2 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: VX013677.D

Acq: 28 Nov 2019 01:58

Instrument :

MSVOA_X

ClientSampleId :

MW-9

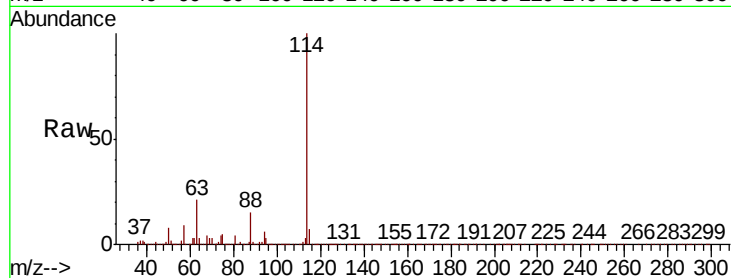
Tot Ion:114 Resp: 1092249

Ion Ratio Lower Upper

114 100

63 20.4 0.0 39.6

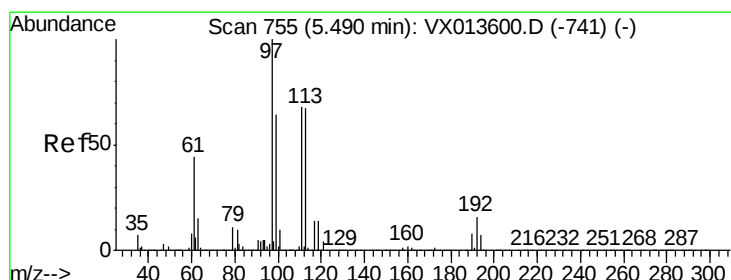
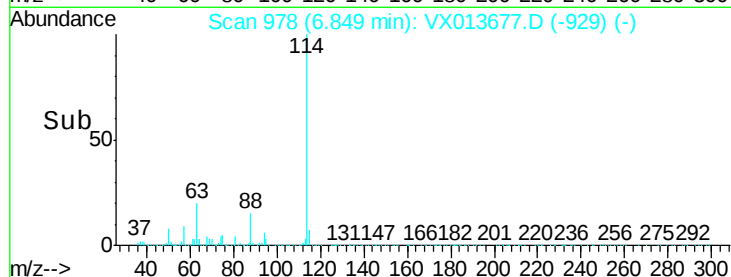
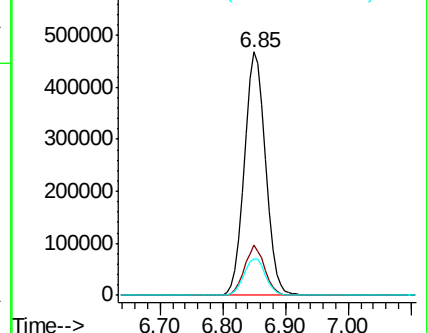
88 15.0 0.0 31.4



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: 47.241 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX013677.D

Acq: 28 Nov 2019 01:58

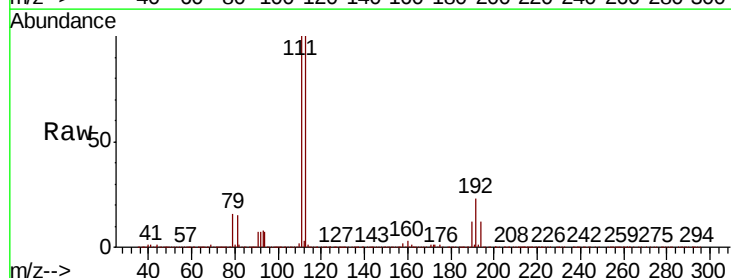
Tgt Ion:113 Resp: 318992

Ion Ratio Lower Upper

113 100

111 102.1 83.6 125.4

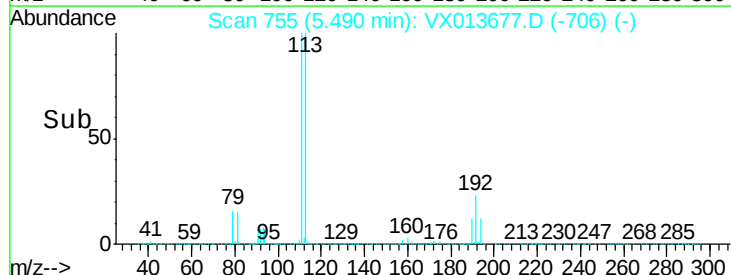
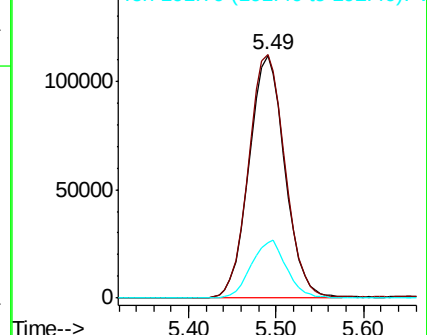
192 23.8 19.2 28.8

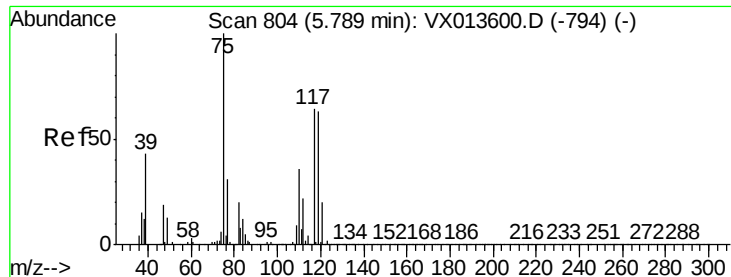


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.558 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.14 min

Lab File: VX013677.D

Acq: 28 Nov 2019 01:58

Instrument :

MSVOA_X

ClientSampleId :

MW-9

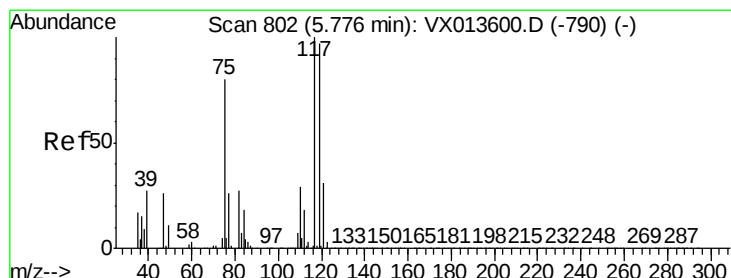
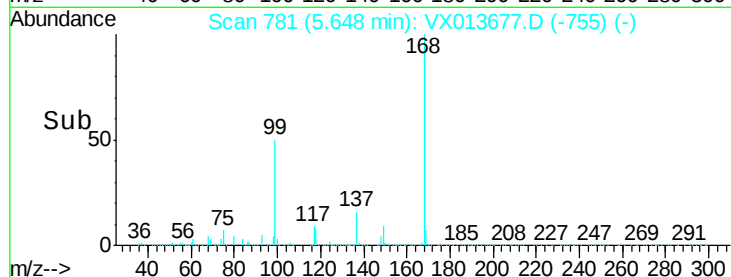
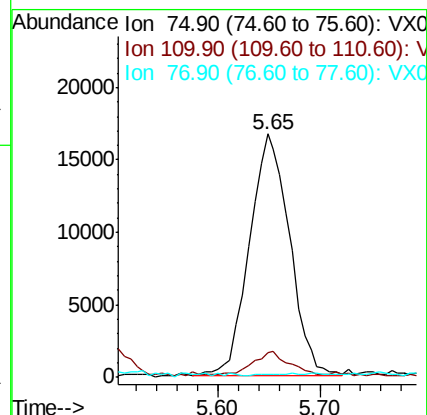
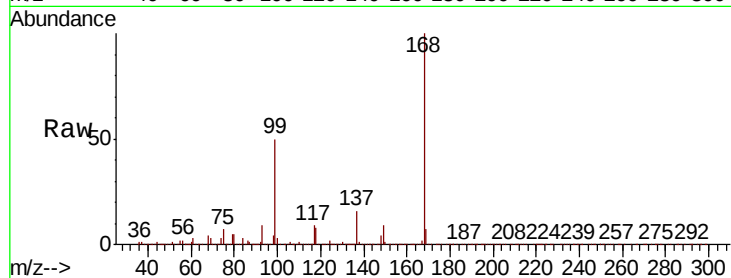
Tot Ion: 75 Resp: 45189

Ion Ratio Lower Upper

75 100

110 9.5 18.1 54.1#

77 0.3 24.5 36.7#



#38

Carbon Tetrachloride

Concen: 6.582 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.12 min

Lab File: VX013677.D

Acq: 28 Nov 2019 01:58

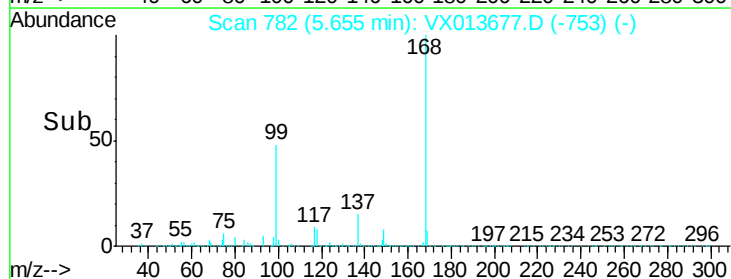
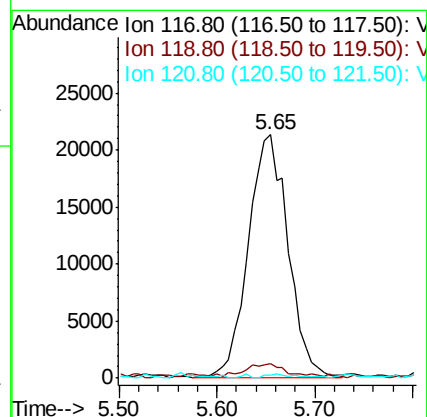
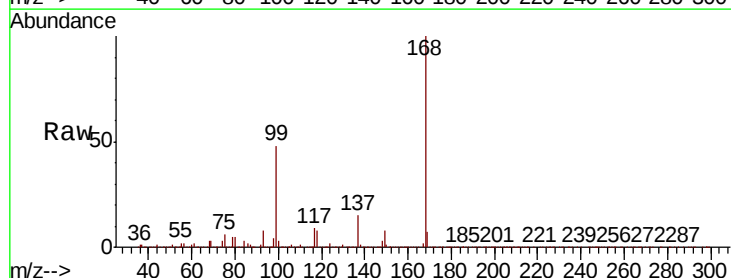
Tgt Ion: 117 Resp: 60174

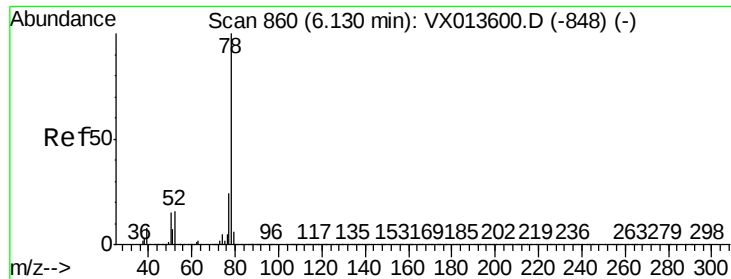
Ion Ratio Lower Upper

117 100

119 4.9 77.5 116.3#

121 0.4 25.0 37.6#





#40

Benzene

Concen: 2.052 ug/l

RT: 6.14 min Scan# 861

Delta R.T. 0.01 min

Lab File: VX013677.D

Acq: 28 Nov 2019 01:58

Instrument :

MSVOA_X

ClientSampled :

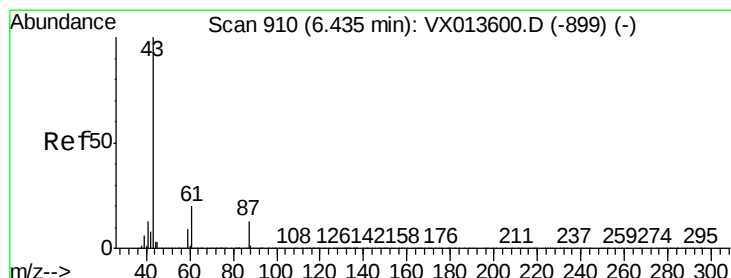
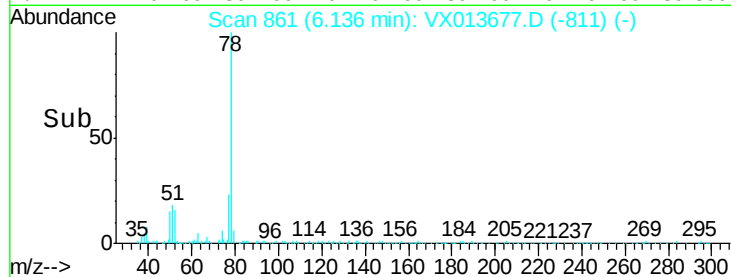
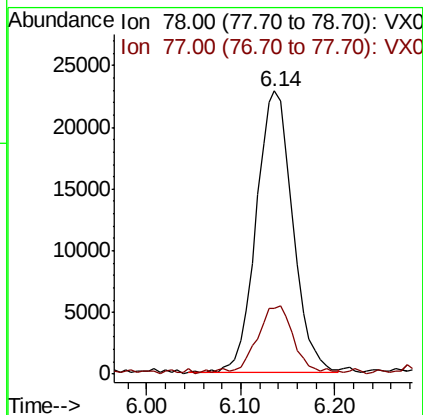
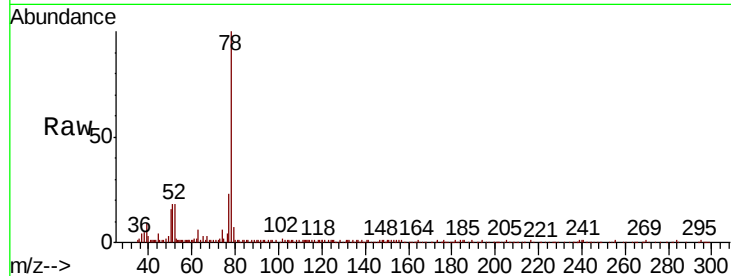
MW-9

Tot Ion: 78 Resp: 61977

Ion Ratio Lower Upper

78 100

77 22.4 19.0 28.4



#43

Isopropyl Acetate

Concen: 2.048 ug/l

RT: 6.43 min Scan# 909

Delta R.T. -0.01 min

Lab File: VX013677.D

Acq: 28 Nov 2019 01:58

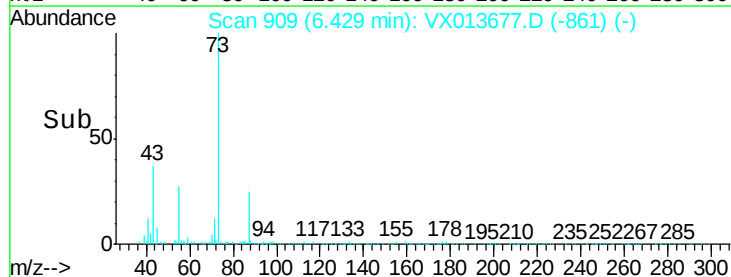
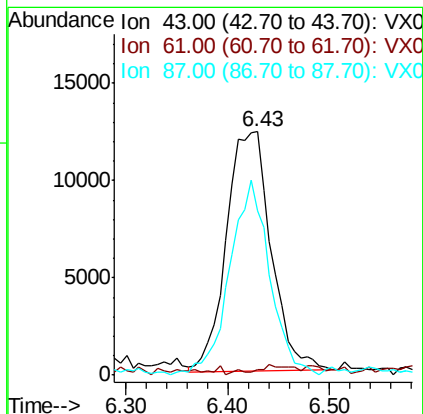
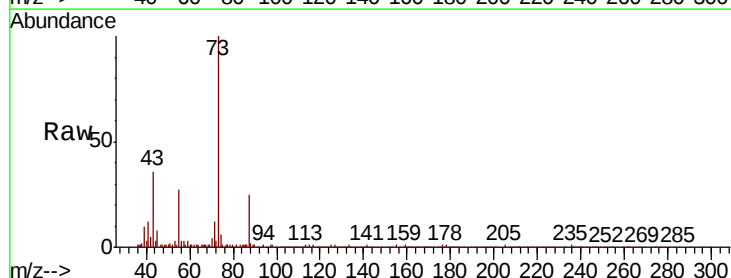
Tgt Ion: 43 Resp: 37506

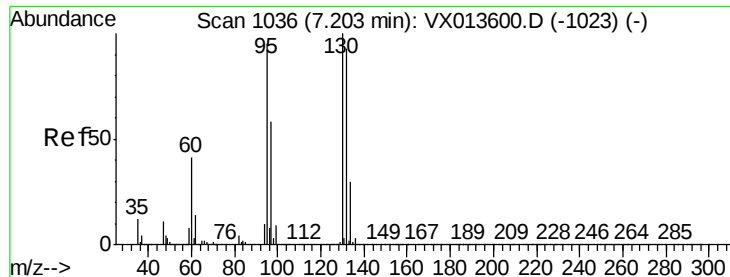
Ion Ratio Lower Upper

43 100

61 2.0 16.3 24.5#

87 72.7 10.8 16.2#





#44

Trichloroethene

Concen: 1.041 ug/l

RT: 7.21 min Scan# 1037

Delta R.T. 0.01 min

Lab File: VX013677.D

Acq: 28 Nov 2019 01:58

Instrument :

MSVOA_X

ClientSampled :

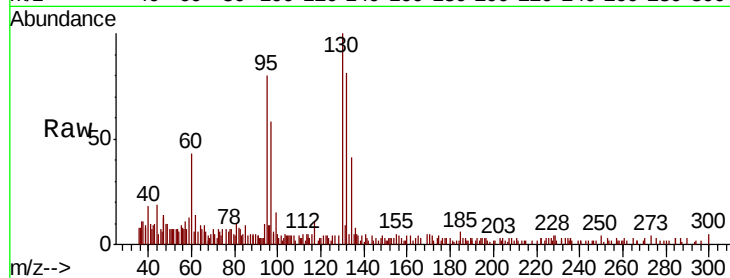
MW-9

Tot Ion:130 Resp: 8630

Ion Ratio Lower Upper

130 100

95 77.0 0.0 190.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.21

4000

3000

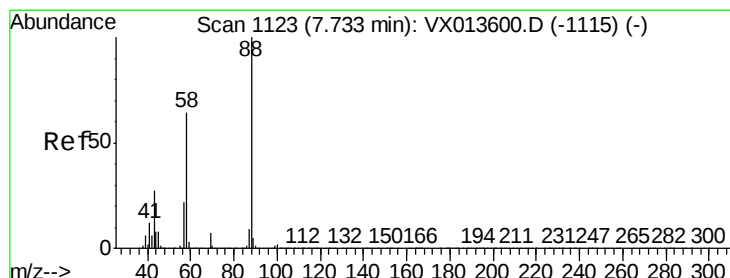
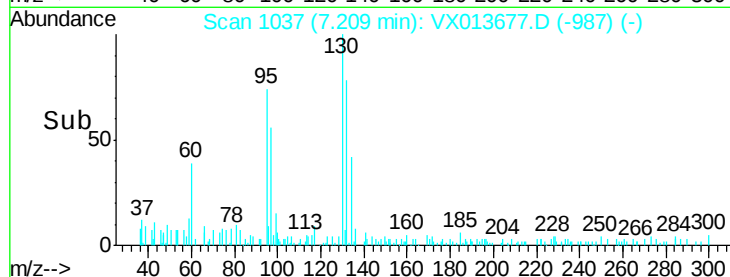
2000

1000

0

7.15 7.20 7.25 7.30

Time-->



#49

1,4-Dioxane

Concen: 3.520 ug/l

RT: 7.74 min Scan# 1124

Delta R.T. 0.01 min

Lab File: VX013677.D

Acq: 28 Nov 2019 01:58

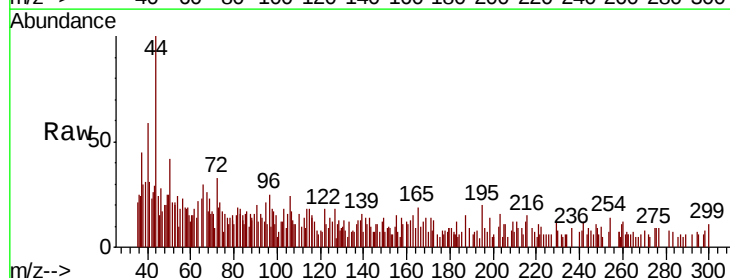
Tgt Ion: 88 Resp: 701

Ion Ratio Lower Upper

88 100

43 47.2 25.8 38.6#

58 0.0 54.6 82.0#



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

1000

800

600

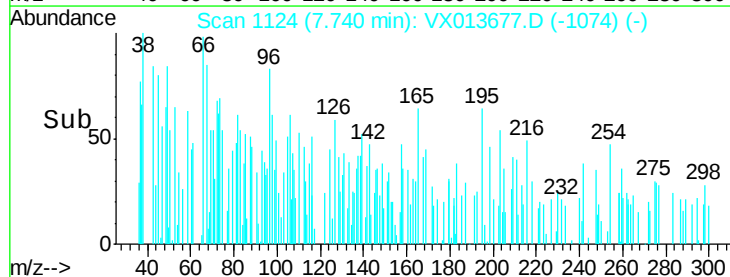
400

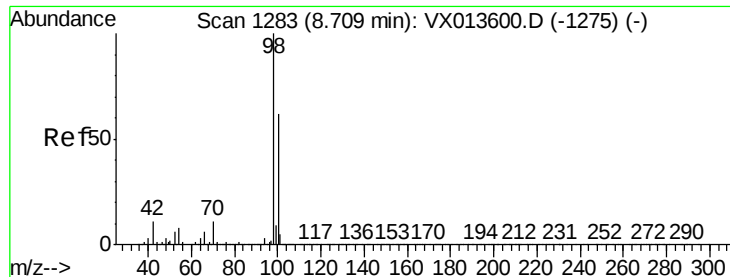
200

0

7.70 7.75

Time-->





#50

Toluene-d8

Concen: 48.876 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX013677.D

Acq: 28 Nov 2019 01:58

Instrument :

MSVOA_X

ClientSampleId :

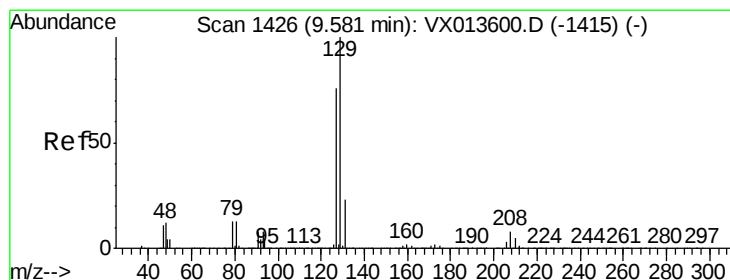
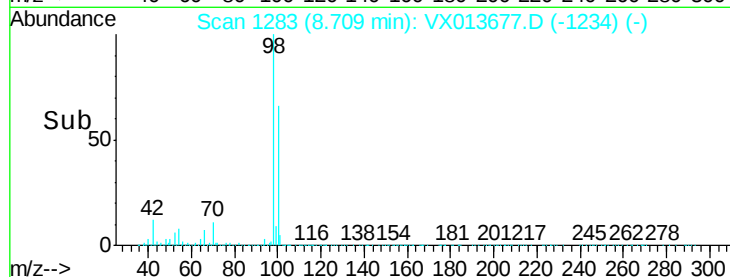
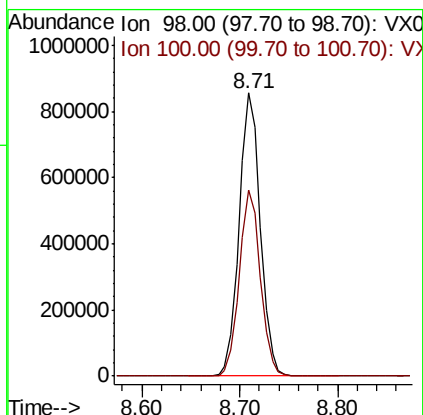
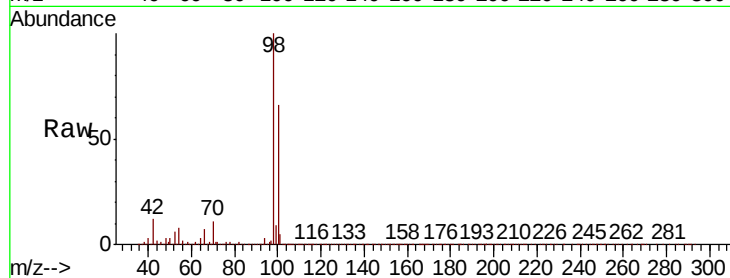
MW-9

Tot Ion: 98 Resp: 1285832

Ion Ratio Lower Upper

98 100

100 65.5 53.1 79.7



#60

Dibromochloromethane

Concen: 2.997 ug/l

RT: 9.33 min Scan# 1385

Delta R.T. -0.25 min

Lab File: VX013677.D

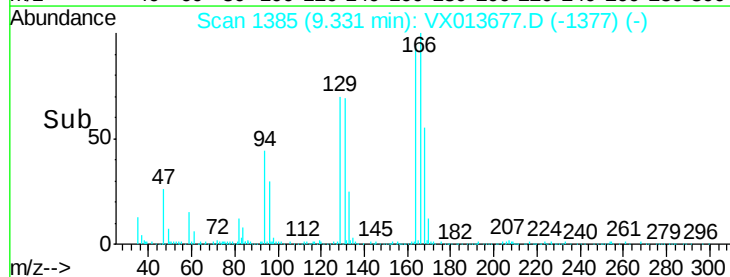
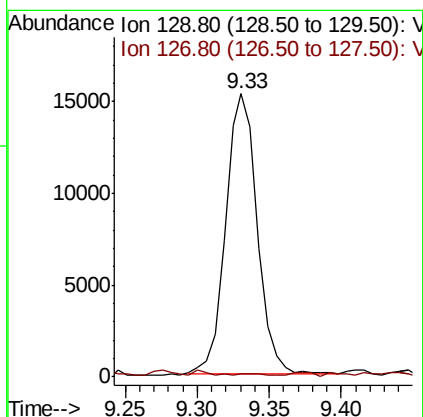
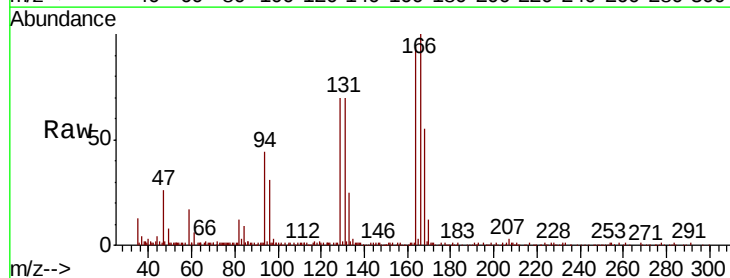
Acq: 28 Nov 2019 01:58

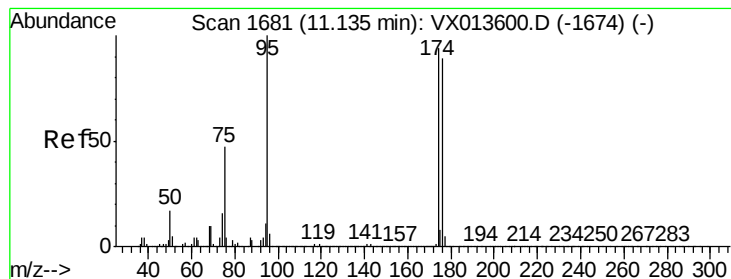
Tgt Ion: 129 Resp: 23511

Ion Ratio Lower Upper

129 100

127 0.0 38.5 115.5#





#62

4-Bromofluorobenzene

Concen: 46.448 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.00 min

Lab File: VX013677.D

Acq: 28 Nov 2019 01:58

Instrument :

MSVOA_X

ClientSampled :

MW-9

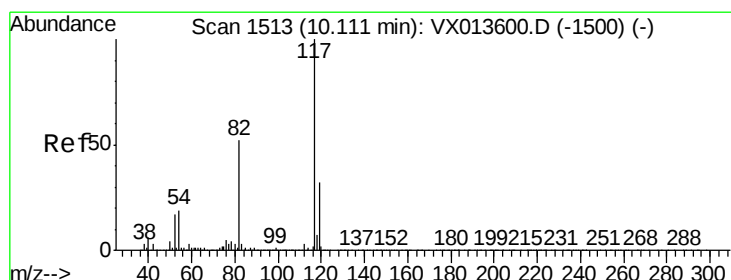
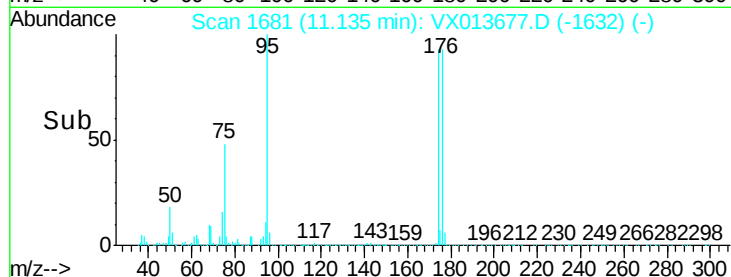
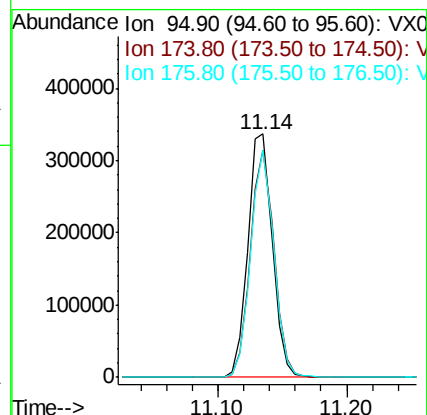
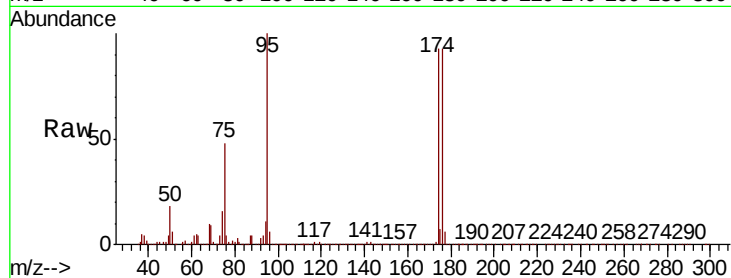
Tot Ion: 95 Resp: 440643

Ion Ratio Lower Upper

95 100

174 90.1 0.0 180.0

176 87.8 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: VX013677.D

Acq: 28 Nov 2019 01:58

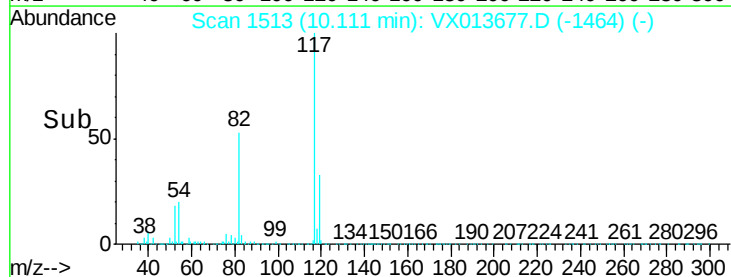
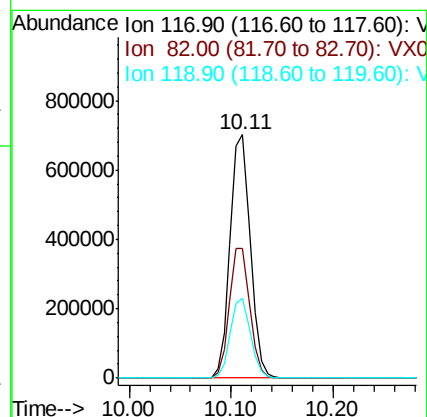
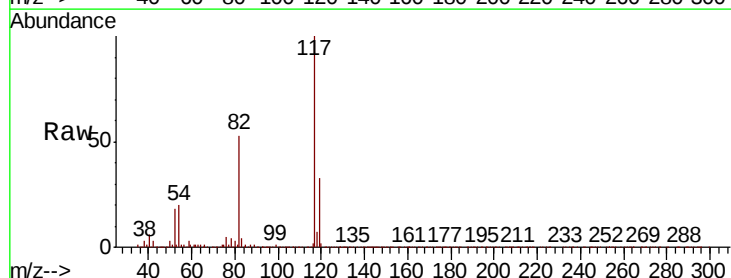
Tgt Ion: 117 Resp: 966159

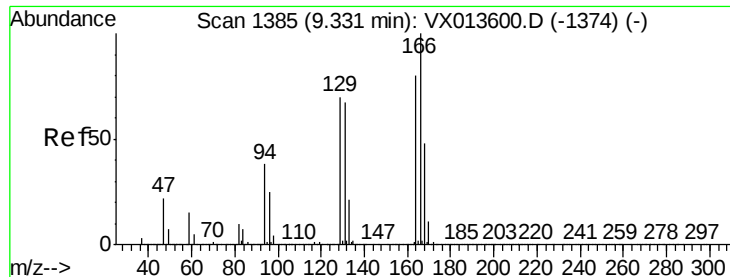
Ion Ratio Lower Upper

117 100

82 53.2 41.8 62.8

119 33.0 25.8 38.8





#64

Tetrachloroethene

Concen: 4.014 ug/l

RT: 9.33 min Scan# 1385

Delta R.T. 0.00 min

Lab File: VX013677.D

Acq: 28 Nov 2019 01:58

Instrument :

MSVOA_X

ClientSampleId :

MW-9

Tot Ion:164 Resp: 28922

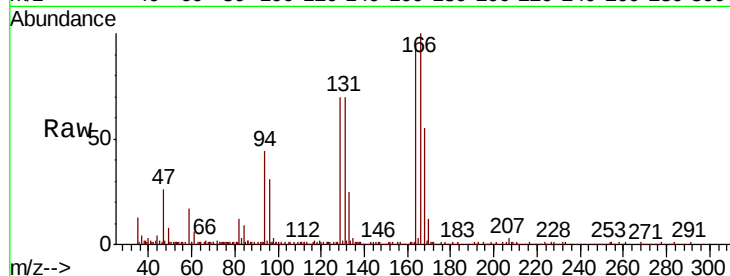
Ion Ratio Lower Upper

164 100

166 106.2 99.7 149.5

129 73.1 70.1 105.1

131 73.3 66.9 100.3

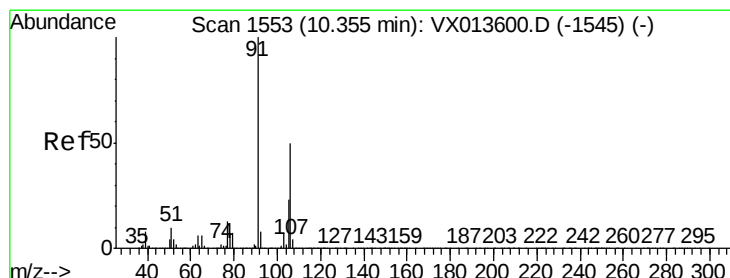
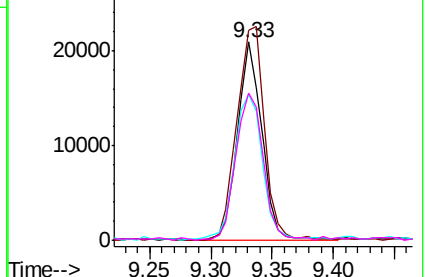
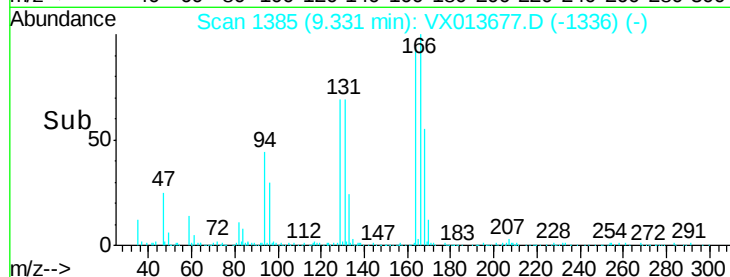


Abundance Ion 163.80 (163.50 to 164.50): V

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



#68

m/p-Xylenes

Concen: 0.204 ug/l

RT: 10.35 min Scan# 1553

Delta R.T. 0.00 min

Lab File: VX013677.D

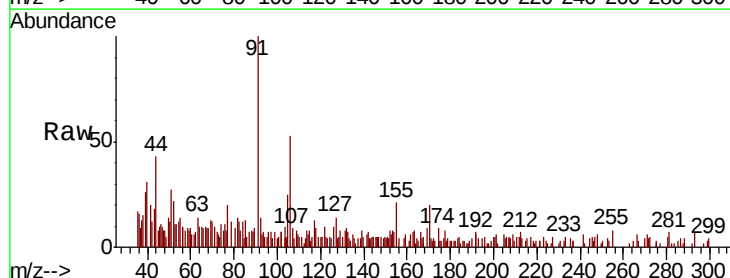
Acq: 28 Nov 2019 01:58

Tgt Ion:106 Resp: 2689

Ion Ratio Lower Upper

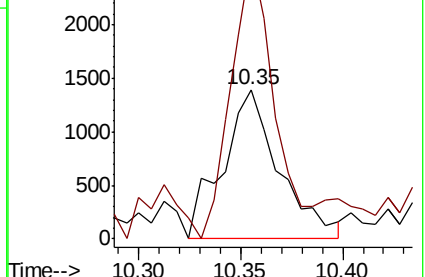
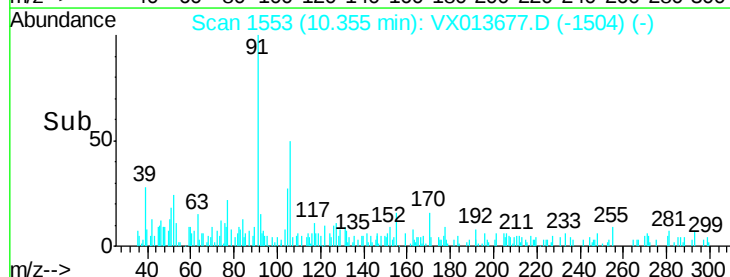
106 100

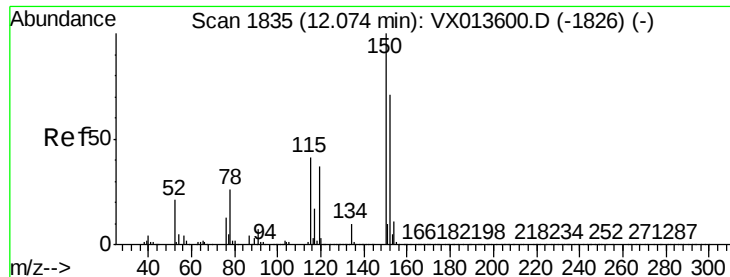
91 141.8 159.0 238.4#



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VX013677.D

Acq: 28 Nov 2019 01:58

Instrument :

MSVOA_X

ClientSampled :

MW-9

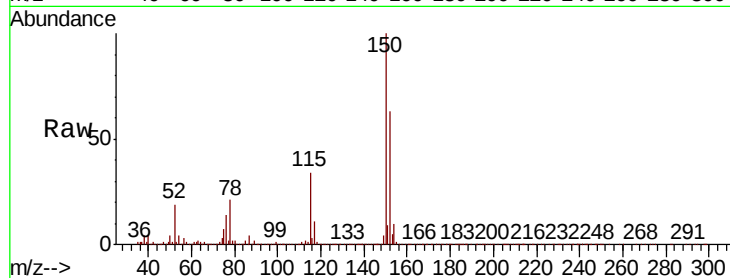
Tot Ion:152 Resp: 456025

Ion Ratio Lower Upper

152 100

115 54.7 38.4 115.1

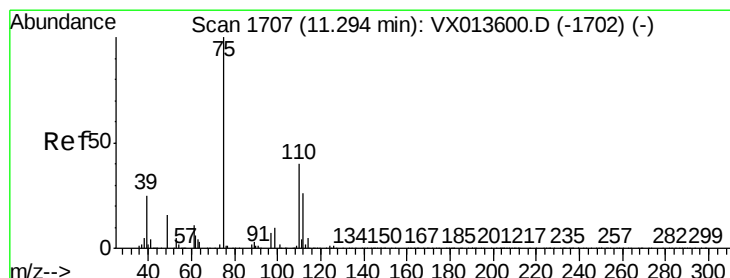
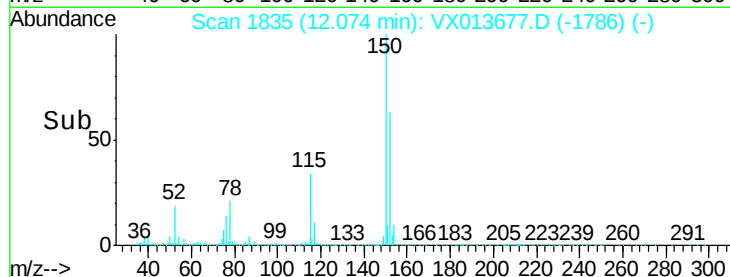
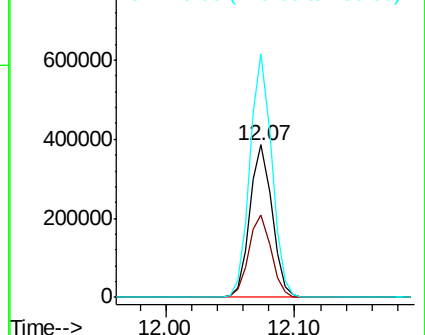
150 157.0 0.0 346.8



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: 21.177 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX013677.D

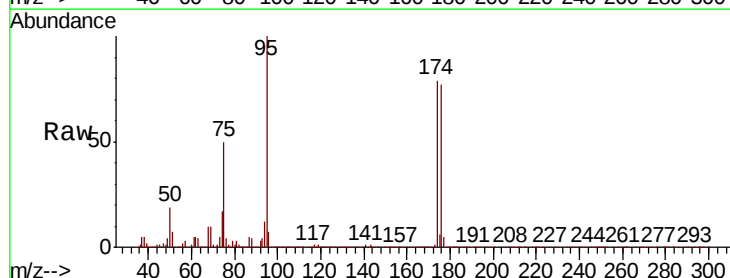
Acq: 28 Nov 2019 01:58

Tgt Ion: 75 Resp: 217210

Ion Ratio Lower Upper

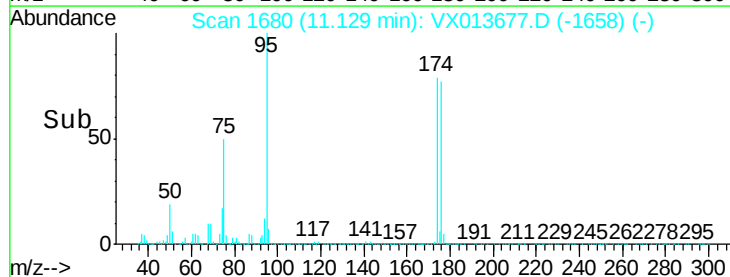
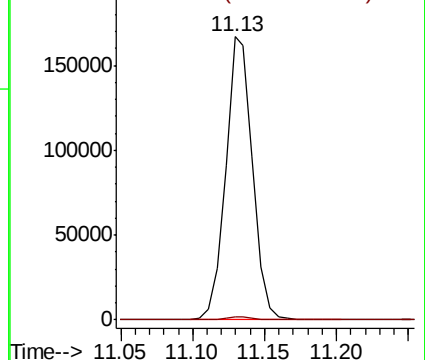
75 100

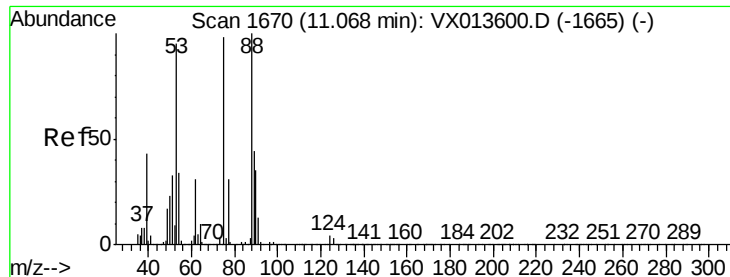
77 1.2 19.1 57.5#



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: 57.937 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX013677.D

Acq: 28 Nov 2019 01:58

Instrument :

MSVOA_X

ClientSampleId :

MW-9

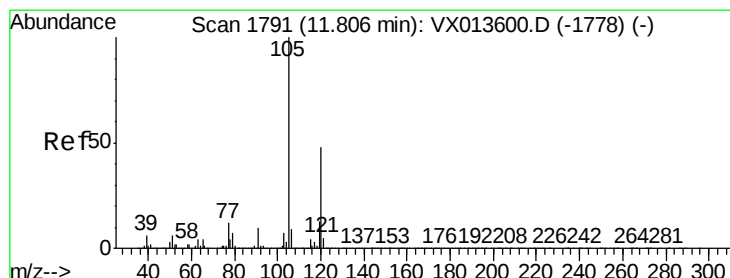
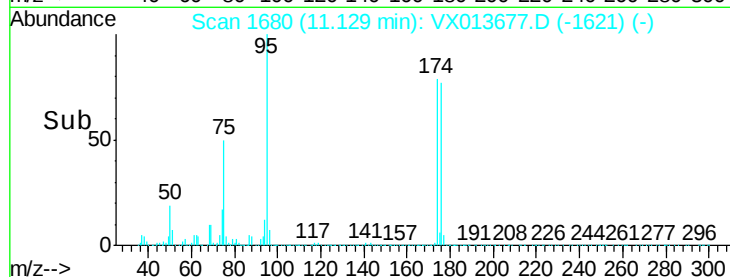
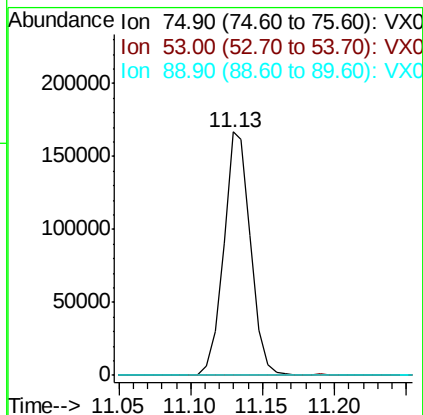
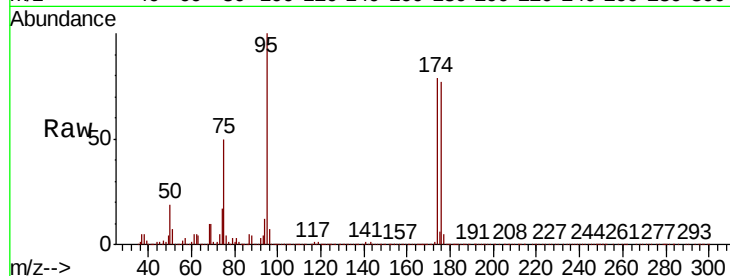
Tot Ion: 75 Resp: 217210

Ion Ratio Lower Upper

75 100

53 0.2 78.2 117.2#

89 0.0 35.4 53.2#



#84

1,2,4-Trimethylbenzene

Concen: 1.083 ug/l

RT: 11.81 min Scan# 1791

Delta R.T. 0.00 min

Lab File: VX013677.D

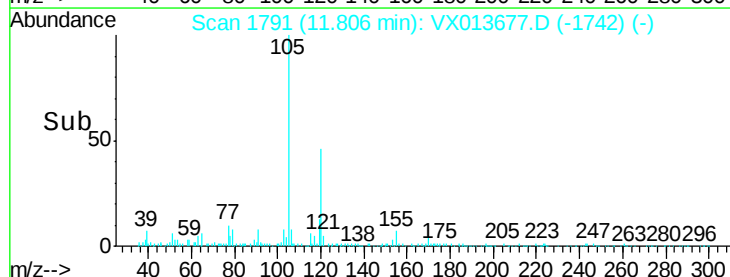
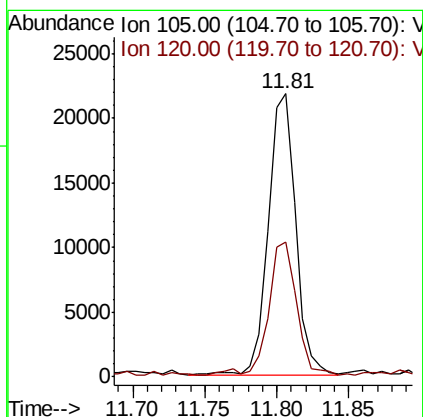
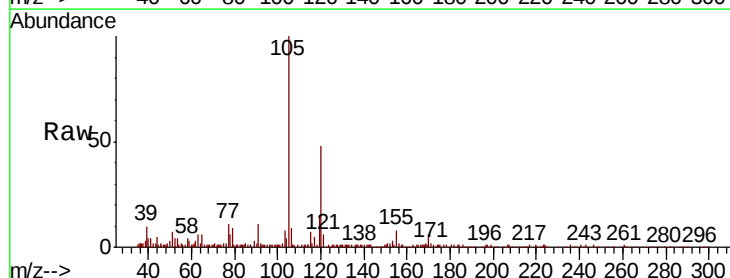
Acq: 28 Nov 2019 01:58

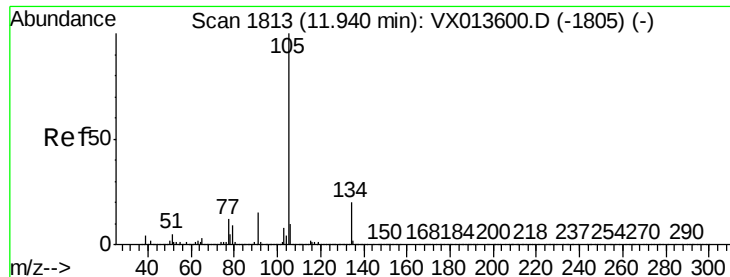
Tgt Ion: 105 Resp: 28810

Ion Ratio Lower Upper

105 100

120 49.0 23.1 69.3





#85

sec-Butylbenzene

Concen: 0.340 ug/l

RT: 11.94 min Scan# 1813

Delta R.T. 0.00 min

Lab File: VX013677.D

Acq: 28 Nov 2019 01:58

Instrument :

MSVOA_X

ClientSampleId :

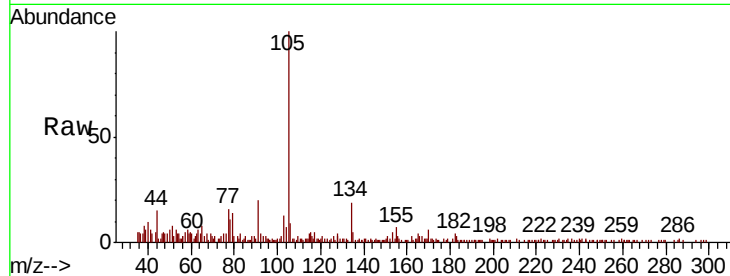
MW-9

Tot Ion:105 Resp: 10360

Ion Ratio Lower Upper

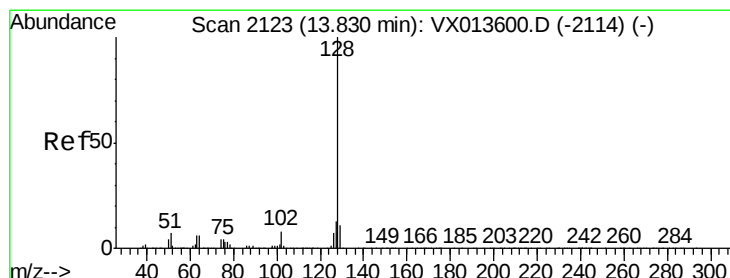
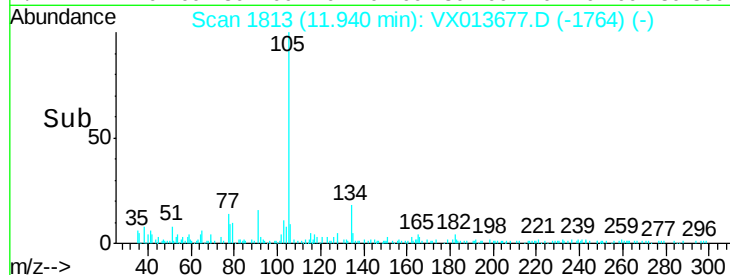
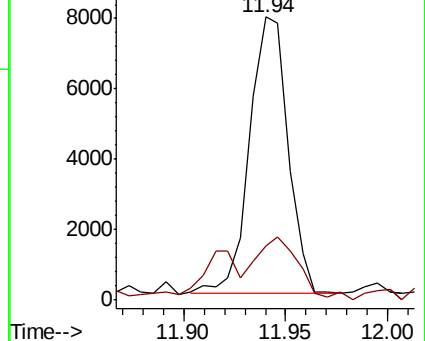
105 100

134 23.0 10.4 31.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#95

Naphthalene

Concen: 9.929 ug/l

RT: 13.83 min Scan# 2123

Delta R.T. 0.00 min

Lab File: VX013677.D

Acq: 28 Nov 2019 01:58

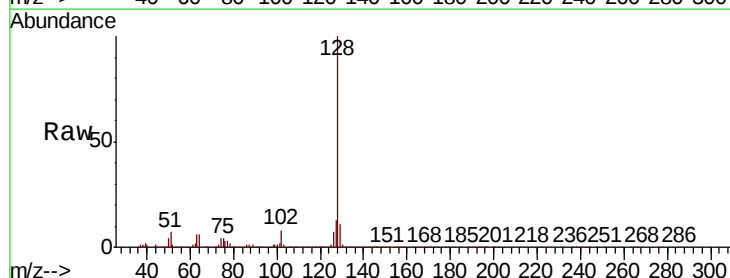
Tgt Ion:128 Resp: 306713

Ion Ratio Lower Upper

128 100

127 12.9 10.3 15.5

129 11.2 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

