

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX112619\
 Data File : VX013636.D
 Acq On : 27 Nov 2019 06:35
 Operator : JC/SP
 Sample : K6002-08
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 44 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Nov 27 07:19:48 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	674357	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	1072549	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	955660	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	435740	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.06	65	385957	49.31	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.62%	
35) Dibromofluoromethane	5.49	113	318122	47.98	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.96%	
50) Toluene-d8	8.71	98	1275347	49.37	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.74%	
62) 4-Bromofluorobenzene	11.14	95	426960	45.83	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.66%	

Target Compounds

						Qvalue
11) Tert butyl alcohol	3.04	59	1224	0.633	ug/l #	72
13) Acrolein	2.30	56	156	6.122	ug/l #	15
15) Acrylonitrile	3.14	53	978	0.245	ug/l #	60
16) Acetone	2.43	43	5830	1.509	ug/l #	84
30) Chloroform	5.20	83	6384	0.513	ug/l #	74
36) 1,1-Dichloropropene	5.65	75	45805	4.705	ug/l #	53
38) Carbon Tetrachloride	5.65	117	58030	6.464	ug/l #	15
40) Benzene	6.13	78	8163	0.275	ug/l #	81
44) Trichloroethene	7.22	130	1982	0.244	ug/l	91
49) 1,4-Dioxane	7.75	88	301	1.539	ug/l #	1
60) Dibromochloromethane	9.33	129	86381	11.212	ug/l #	11
64) Tetrachloroethene	9.33	164	95958	13.465	ug/l	97
67) Ethyl Benzene	10.25	91	8334	0.244	ug/l	97
68) m/p-Xylenes	10.36	106	13845	1.061	ug/l	91
69) o-Xylene	10.70	106	3608	0.283	ug/l	83
76) 1,2,3-Trichloropropane	11.13	75	209011	21.326	ug/l #	40
81) trans-1,4-Dichloro-2-buten	11.13	75	209011	58.345	ug/l #	11
84) 1,2,4-Trimethylbenzene	11.81	105	9368	0.368	ug/l	95
95) Naphthalene	13.83	128	71659	2.428	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.01 min

Lab File: VX013636.D

Acq: 27 Nov 2019 06:35

Instrument :

MSVOA_X

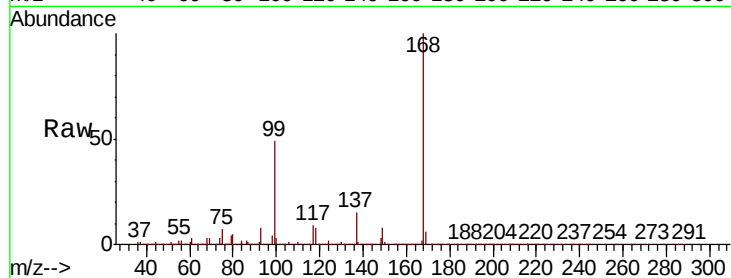
ClientSampled :

Tot Ion:168 Resp: 674357

Ion Ratio Lower Upper

168 100

99 48.9 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

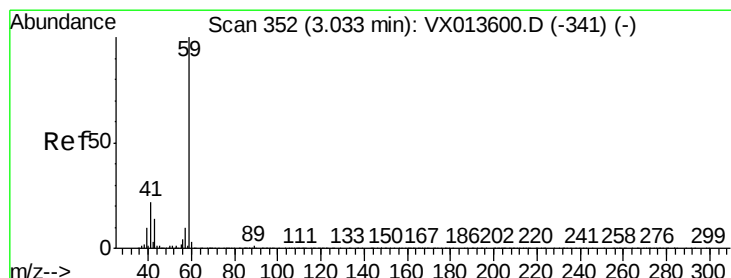
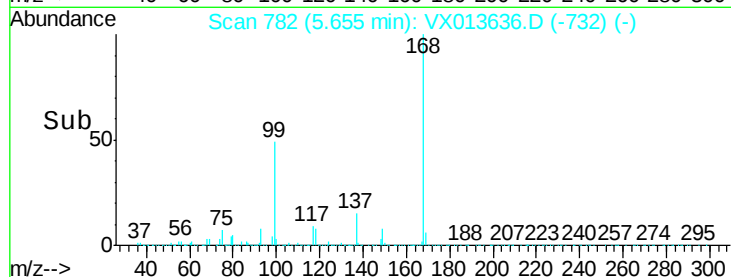
150000

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: 0.633 ug/l

RT: 3.04 min Scan# 353

Delta R.T. 0.01 min

Lab File: VX013636.D

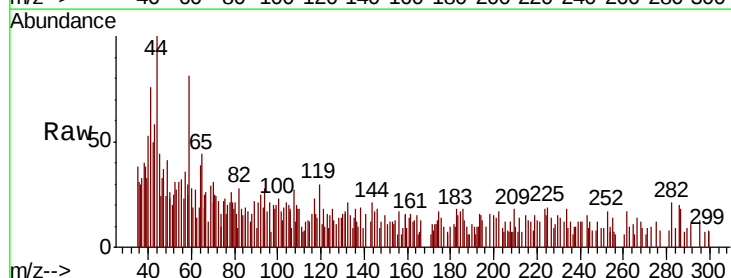
Acq: 27 Nov 2019 06:35

Tgt Ion: 59 Resp: 1224

Ion Ratio Lower Upper

59 100

57 20.2 7.8 11.6#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

3.04

800

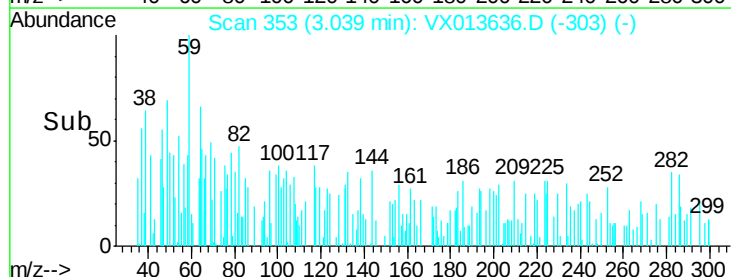
600

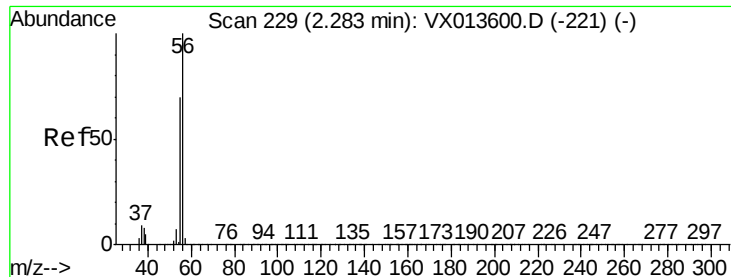
400

200

0

Time-->





#13

Acrolein

Concen: 6.122 ug/l

RT: 2.30 min Scan# 232

Delta R.T. 0.02 min

Lab File: VX013636.D

Acq: 27 Nov 2019 06:35

Instrument :

MSVOA_X

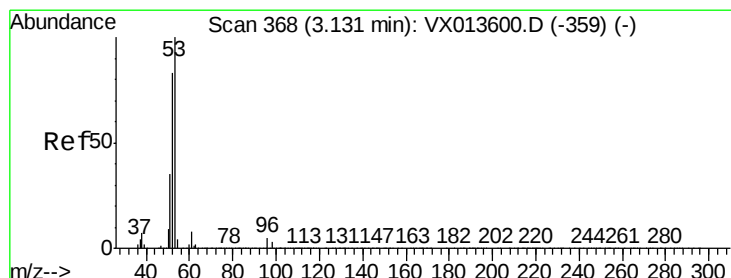
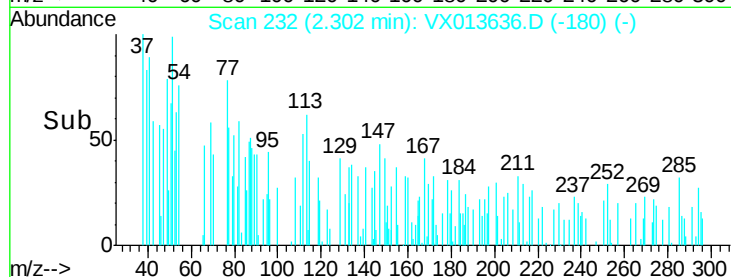
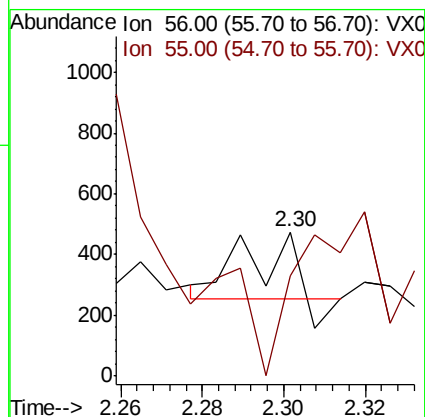
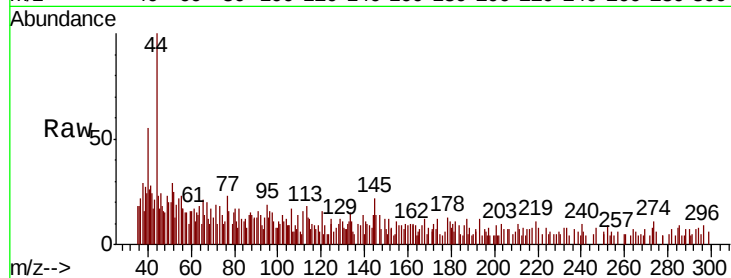
ClientSampled :

Tot Ion: 56 Resp: 156

Ion Ratio Lower Upper

56 100

55 0.0 56.2 84.4#



#15

Acrylonitrile

Concen: 0.245 ug/l

RT: 3.14 min Scan# 370

Delta R.T. 0.01 min

Lab File: VX013636.D

Acq: 27 Nov 2019 06:35

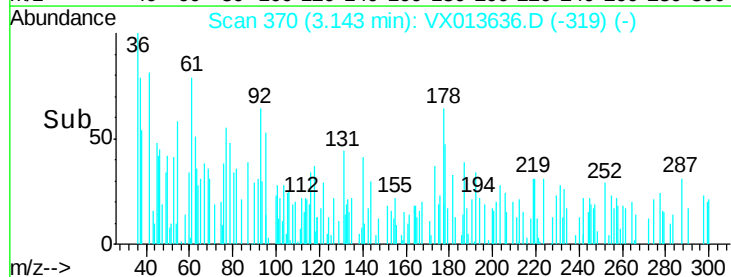
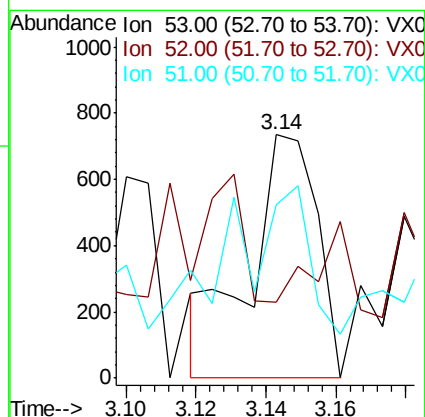
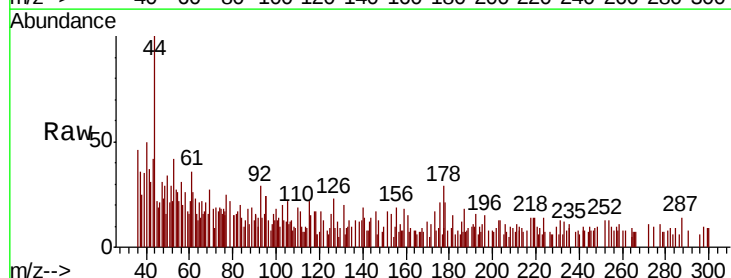
Tgt Ion: 53 Resp: 978

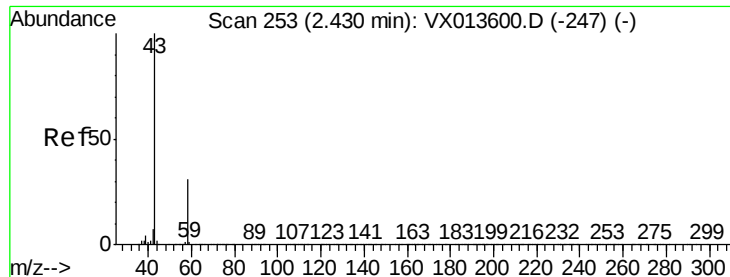
Ion Ratio Lower Upper

53 100

52 50.9 66.2 99.2#

51 65.4 29.0 43.6#

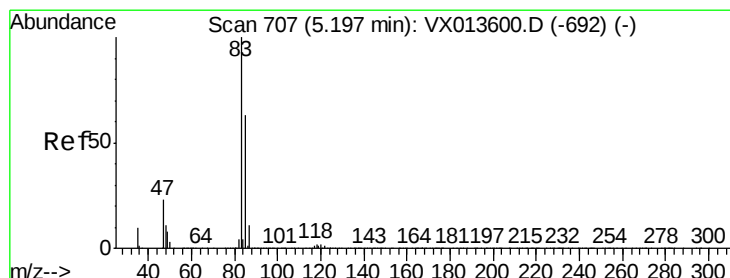
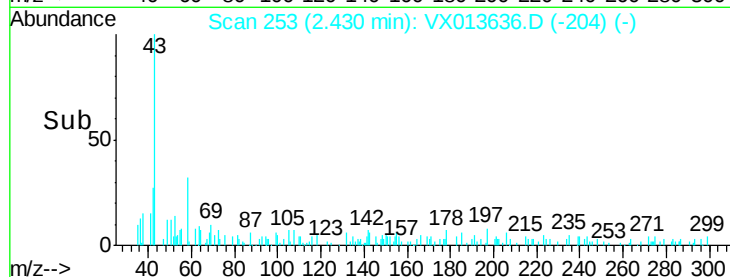
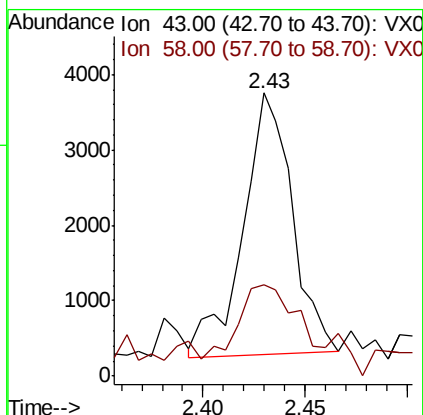
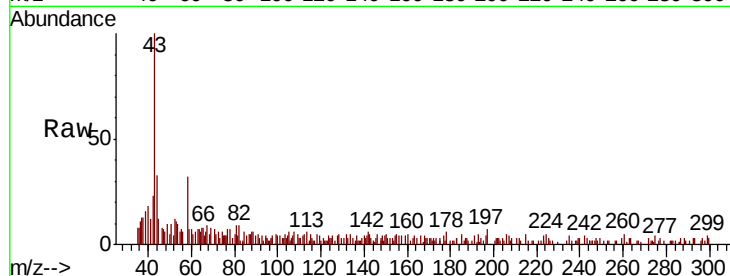




#16
Acetone
Concen: 1.509 ug/l
RT: 2.43 min Scan# 253
Delta R.T. 0.00 min
Lab File: VX013636.D
Acq: 27 Nov 2019 06:35

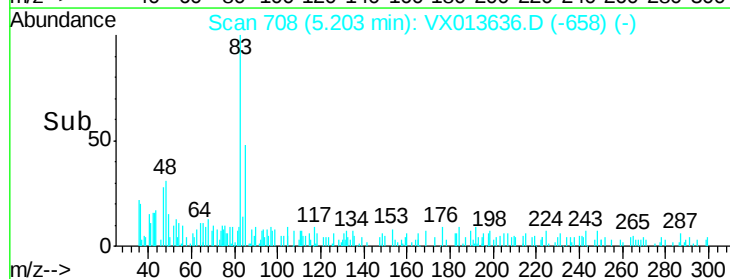
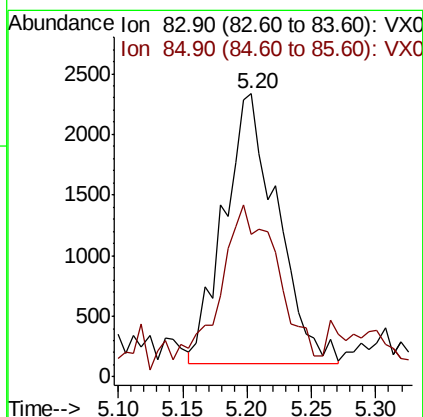
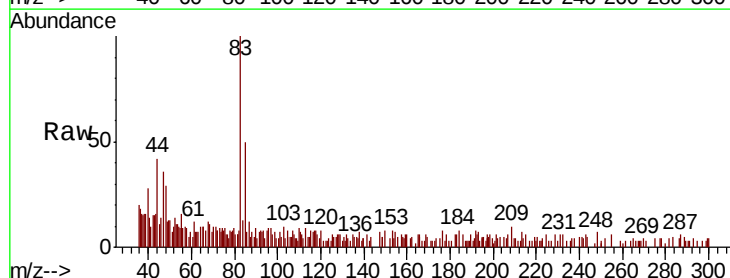
Instrument :
MSVOA_X
ClientSampleId :

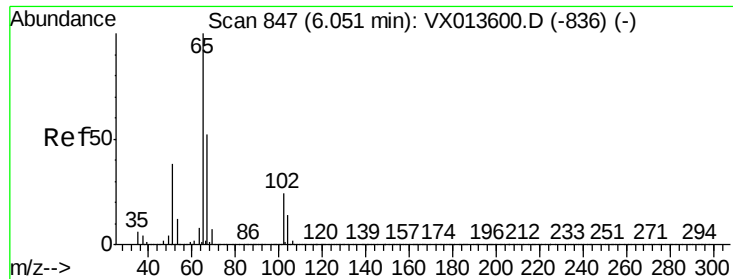
Tot Ion: 43 Resp: 5830
Ion Ratio Lower Upper
43 100
58 22.1 24.6 36.8#



#30
Chloroform
Concen: 0.513 ug/l
RT: 5.20 min Scan# 708
Delta R.T. 0.01 min
Lab File: VX013636.D
Acq: 27 Nov 2019 06:35

Tgt Ion: 83 Resp: 6384
Ion Ratio Lower Upper
83 100
85 42.6 50.2 75.4#





#33

1,2-Dichloroethane-d4

Concen: 49.306 ug/l

RT: 6.06 min Scan# 848

Delta R.T. 0.01 min

Lab File: VX013636.D

Acq: 27 Nov 2019 06:35

Instrument :

MSVOA_X

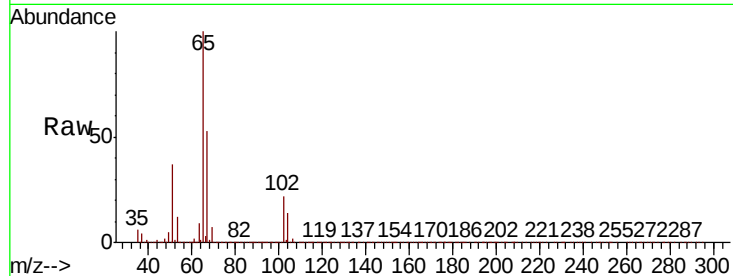
ClientSampleId :

Tot Ion: 65 Resp: 385957

Ion Ratio Lower Upper

65 100

67 53.4 0.0 104.4



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.06

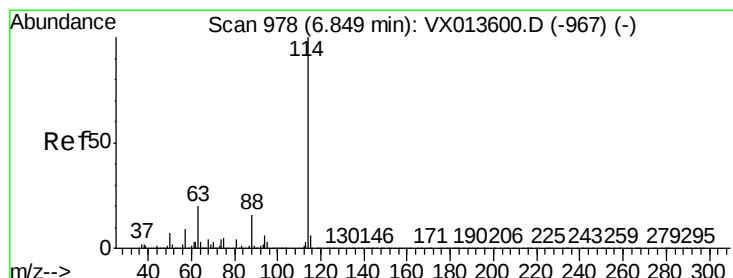
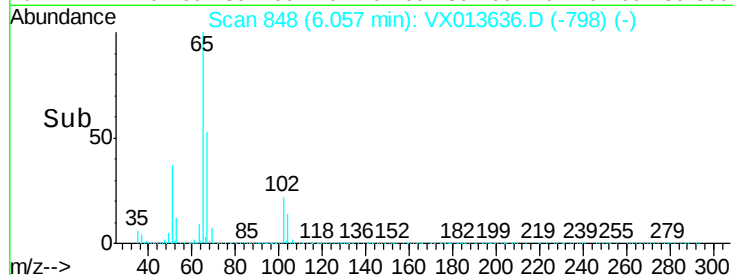
150000

100000

50000

0

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 979

Delta R.T. 0.01 min

Lab File: VX013636.D

Acq: 27 Nov 2019 06:35

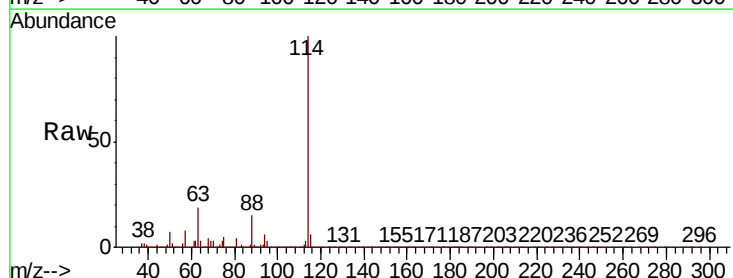
Tgt Ion: 114 Resp: 1072549

Ion Ratio Lower Upper

114 100

63 19.3 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

6.86

600000

500000

400000

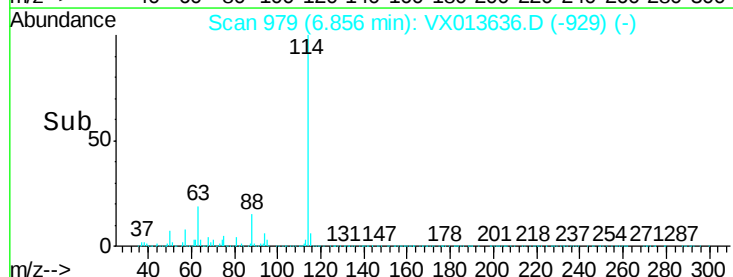
300000

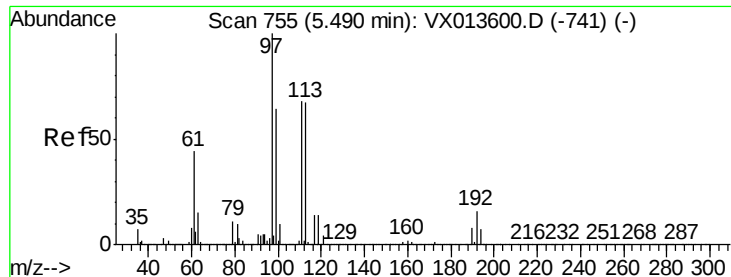
200000

100000

0

Time-->





#35

Dibromofluoromethane

Concen: 47.978 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX013636.D

Acq: 27 Nov 2019 06:35

Instrument :

MSVOA_X

ClientSampleId :

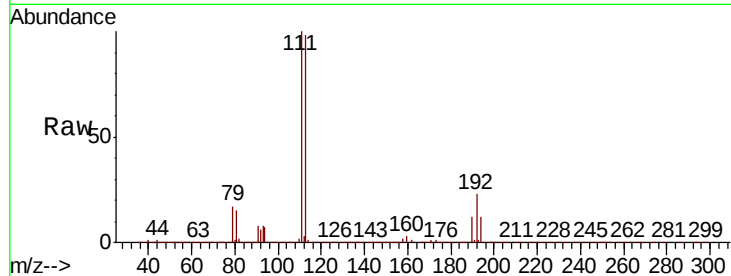
Tot Ion:113 Resp: 318122

Ion Ratio Lower Upper

113 100

111 102.9 83.6 125.4

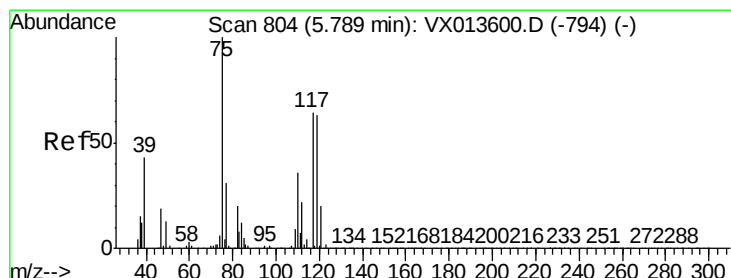
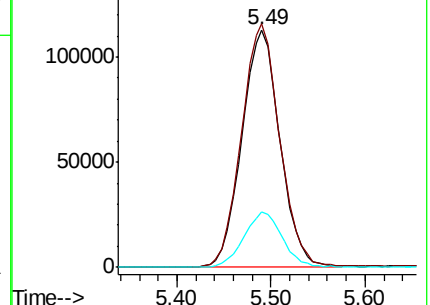
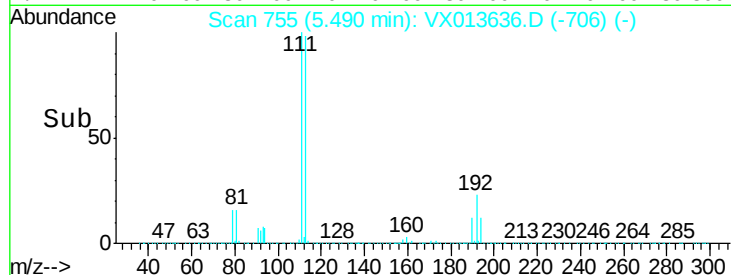
192 23.6 19.2 28.8



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: 4.705 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.13 min

Lab File: VX013636.D

Acq: 27 Nov 2019 06:35

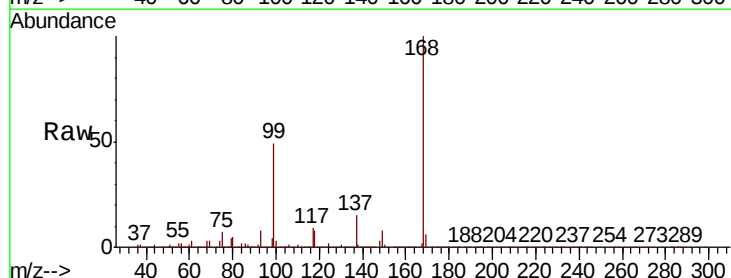
Tgt Ion: 75 Resp: 45805

Ion Ratio Lower Upper

75 100

110 12.3 18.1 54.1#

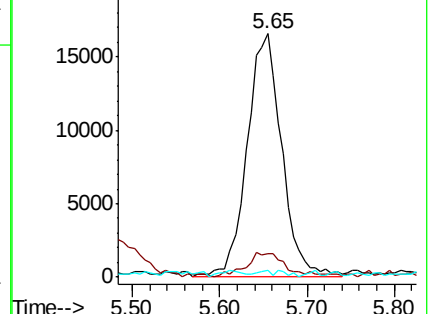
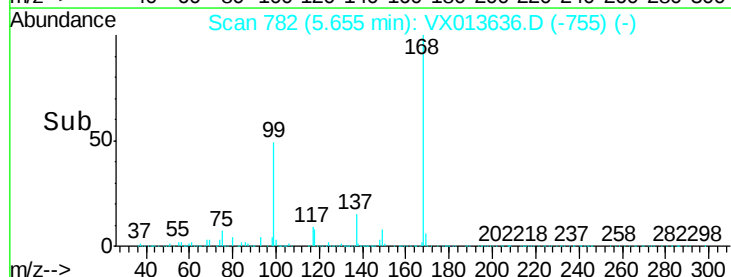
77 0.6 24.5 36.7#

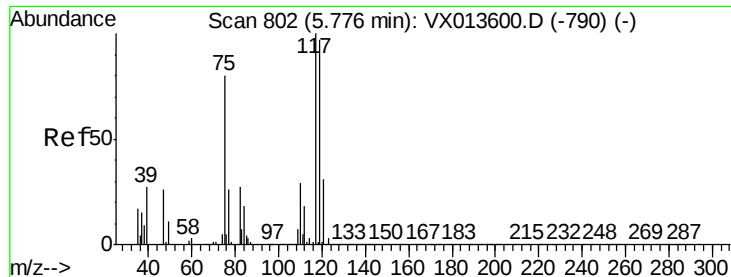


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.464 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.12 min

Lab File: VX013636.D

Acq: 27 Nov 2019 06:35

Instrument :

MSVOA_X

ClientSampleId :

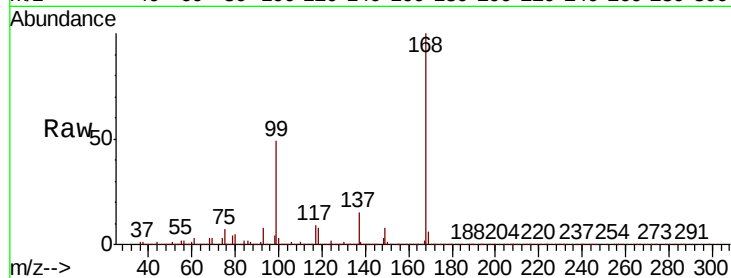
Tot Ion:117 Resp: 58030

Ion Ratio Lower Upper

117 100

119 4.3 77.5 116.3#

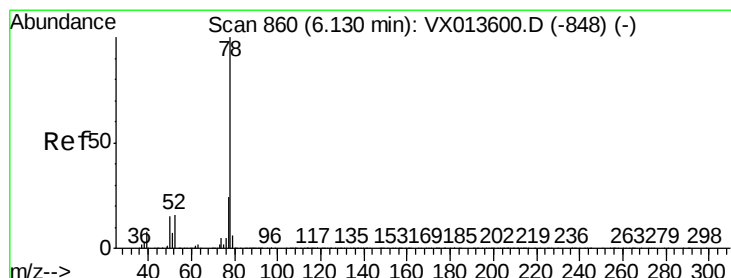
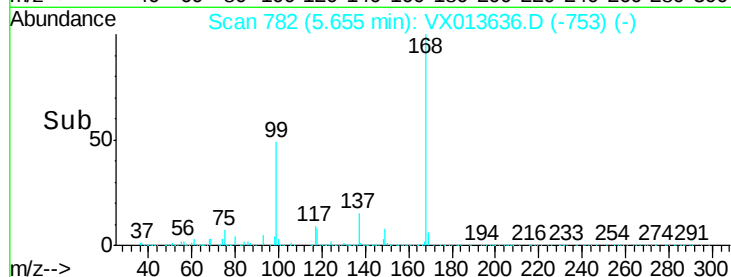
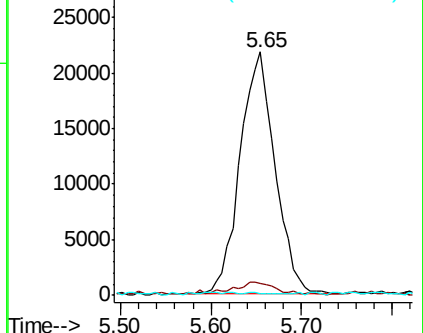
121 0.0 25.0 37.6#



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



#40

Benzene

Concen: 0.275 ug/l

RT: 6.13 min Scan# 860

Delta R.T. 0.00 min

Lab File: VX013636.D

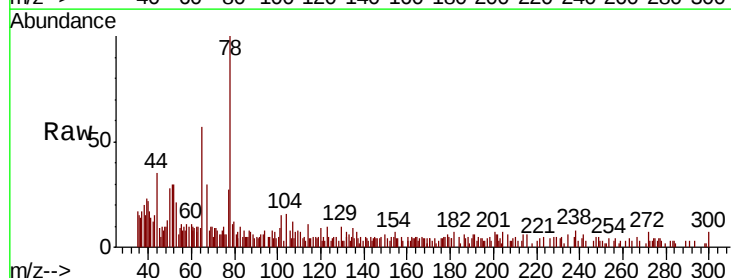
Acq: 27 Nov 2019 06:35

Tgt Ion: 78 Resp: 8163

Ion Ratio Lower Upper

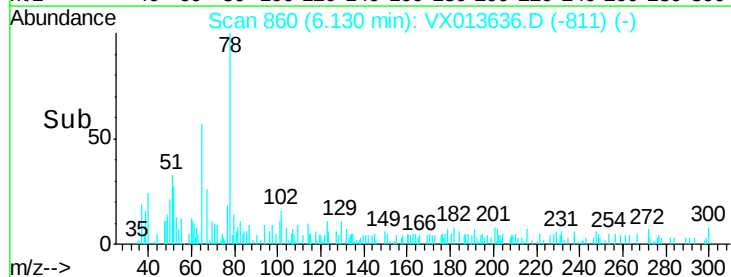
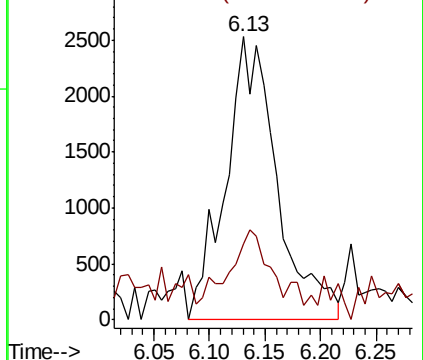
78 100

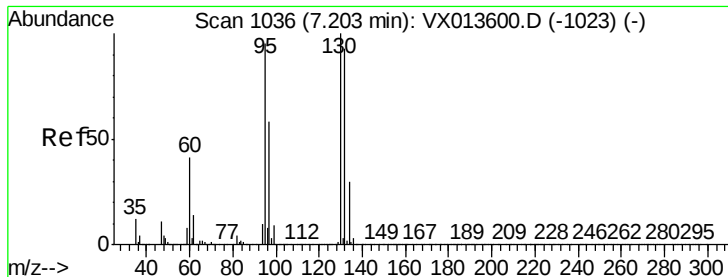
77 14.3 19.0 28.4#



Abundance Ion 78.00 (77.70 to 78.70): VX0

Ion 77.00 (76.70 to 77.70): VX0





#44

Trichloroethene

Concen: 0.244 ug/l

RT: 7.22 min Scan# 1038

Delta R.T. 0.01 min

Lab File: VX013636.D

Acq: 27 Nov 2019 06:35

Instrument :

MSVOA_X

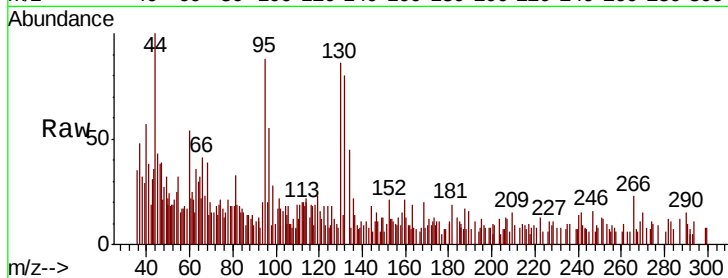
ClientSampled :

Tot Ion:130 Resp: 1982

Ion Ratio Lower Upper

130 100

95 104.1 0.0 190.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

1200

1000

800

600

400

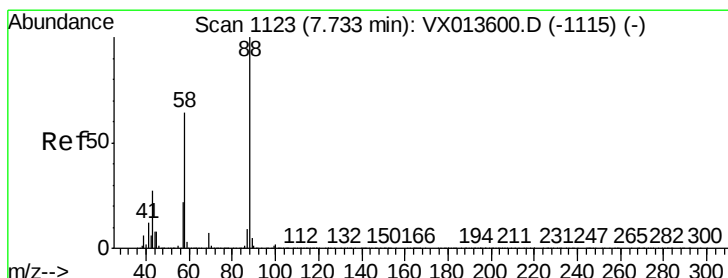
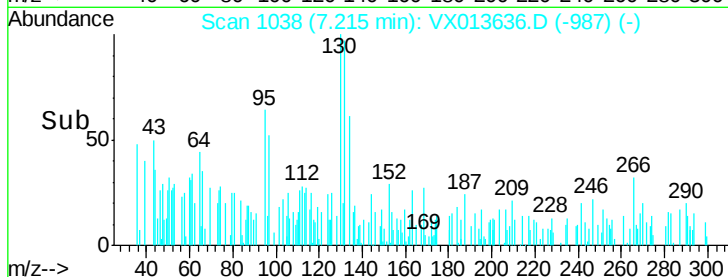
200

0

7.15 7.20 7.25

7.22

Time-->



#49

1,4-Dioxane

Concen: 1.539 ug/l

RT: 7.75 min Scan# 1126

Delta R.T. 0.02 min

Lab File: VX013636.D

Acq: 27 Nov 2019 06:35

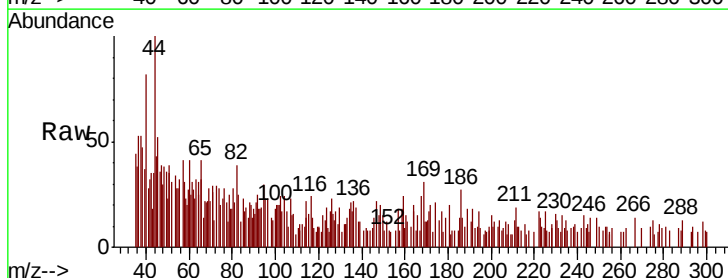
Tgt Ion: 88 Resp: 301

Ion Ratio Lower Upper

88 100

43 0.0 25.8 38.6#

58 223.3 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

800

600

400

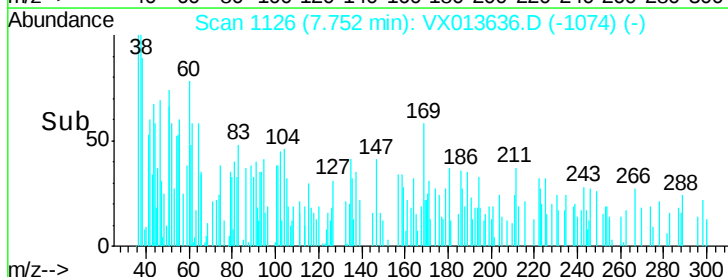
200

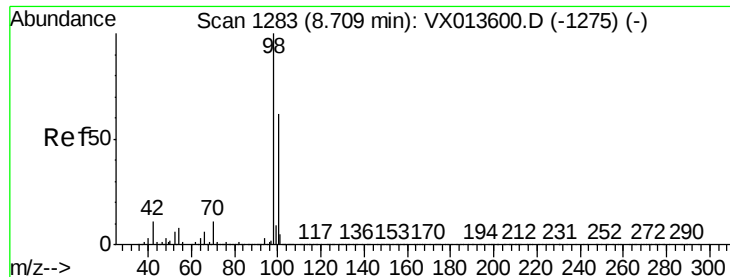
0

7.74 7.75 7.76 7.77

7.75

Time-->





#50

Toluene-d8

Concen: 49.368 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX013636.D

Acq: 27 Nov 2019 06:35

Instrument :

MSVOA_X

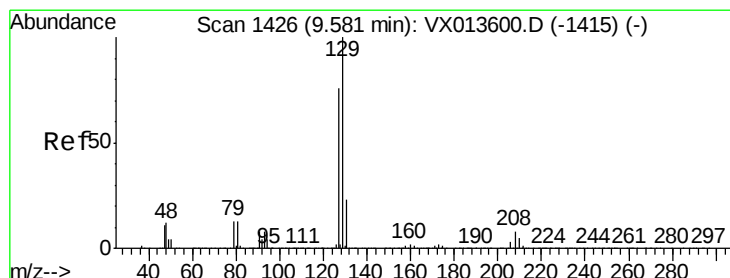
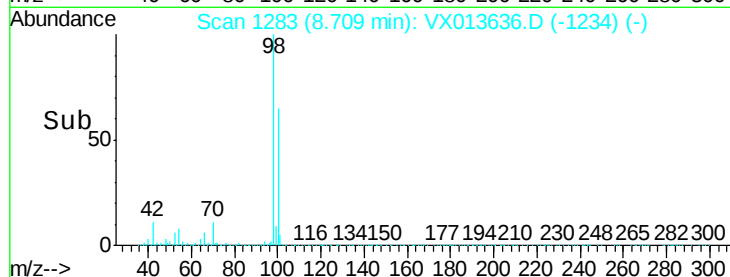
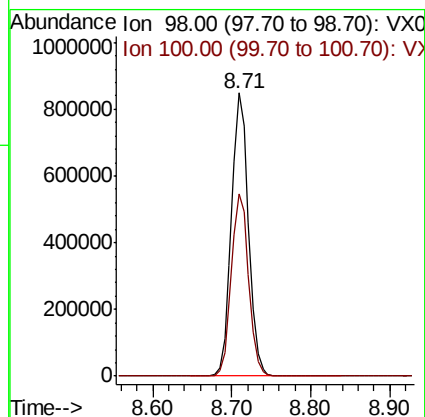
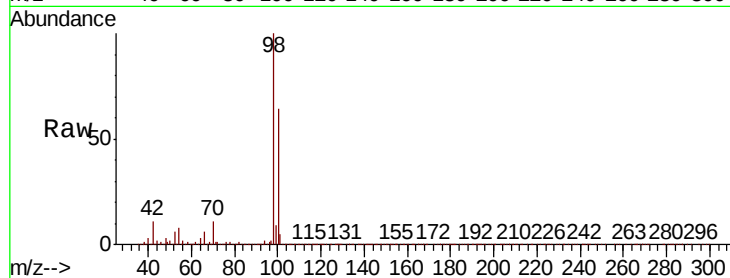
ClientSampleId :

Tot Ion: 98 Resp: 1275347

Ion Ratio Lower Upper

98 100

100 65.2 53.1 79.7



#60

Dibromochloromethane

Concen: 11.212 ug/l

RT: 9.33 min Scan# 1385

Delta R.T. -0.25 min

Lab File: VX013636.D

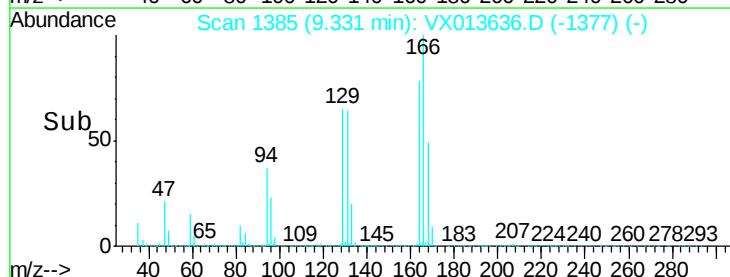
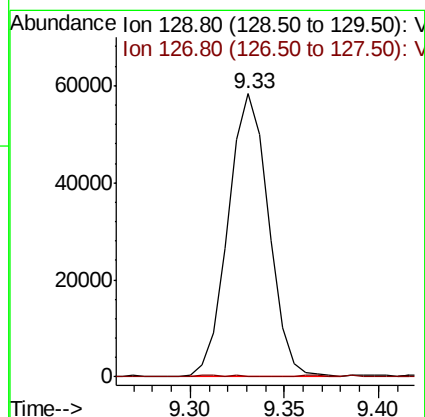
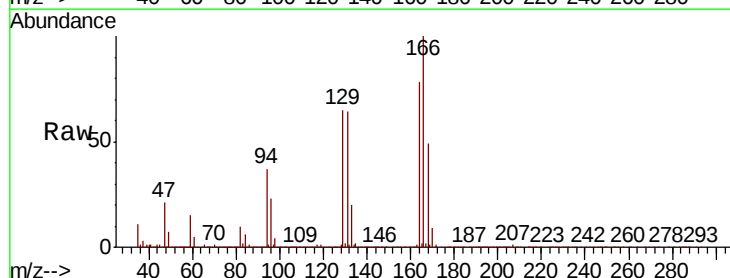
Acq: 27 Nov 2019 06:35

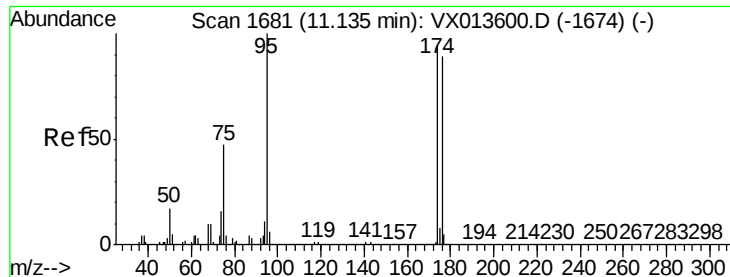
Tgt Ion: 129 Resp: 86381

Ion Ratio Lower Upper

129 100

127 0.0 38.5 115.5#





#62

4-Bromofluorobenzene

Concen: 45.832 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.00 min

Lab File: VX013636.D

Acq: 27 Nov 2019 06:35

Instrument :

MSVOA_X

ClientSampleId :

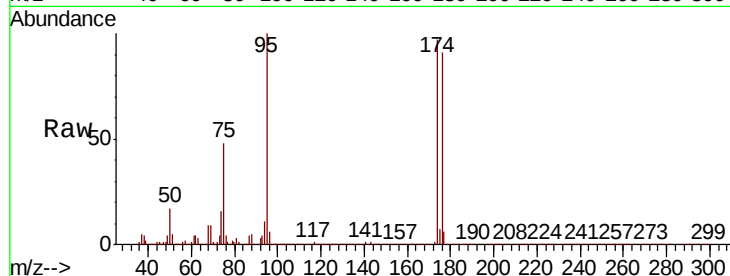
Tot Ion: 95 Resp: 426960

Ion Ratio Lower Upper

95 100

174 91.0 0.0 180.0

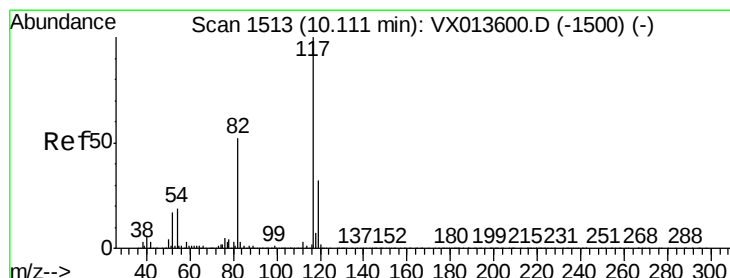
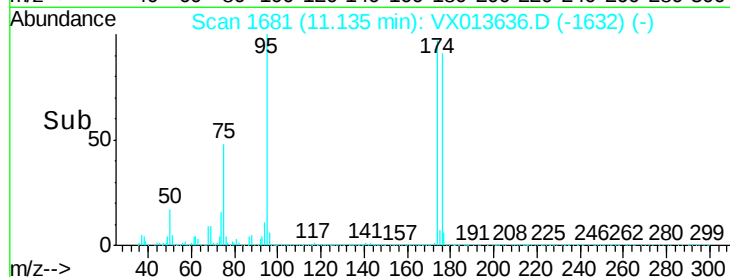
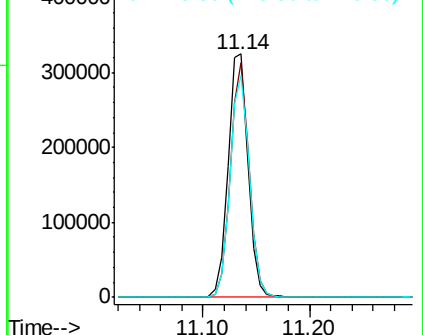
176 88.8 0.0 173.6



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VX013636.D

Acq: 27 Nov 2019 06:35

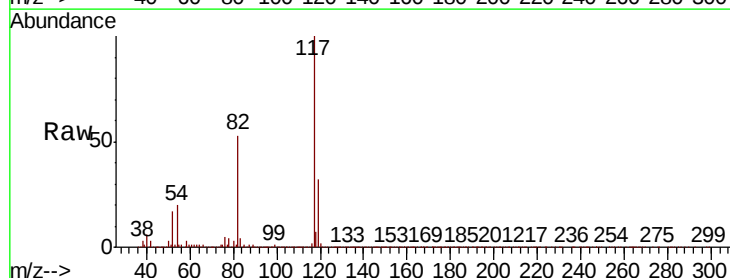
Tgt Ion: 117 Resp: 955660

Ion Ratio Lower Upper

117 100

82 53.0 41.8 62.8

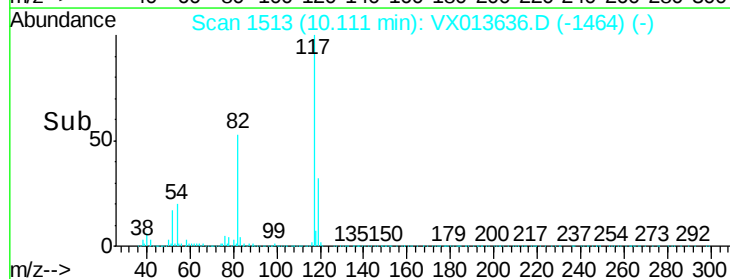
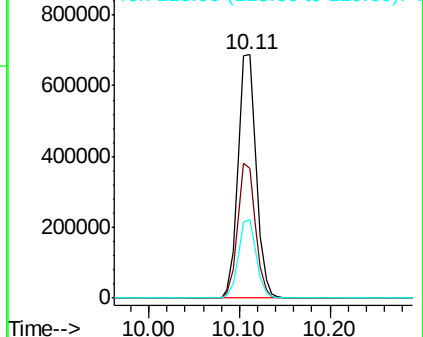
119 32.4 25.8 38.8

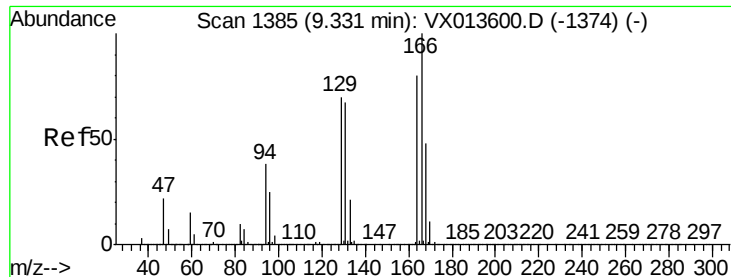


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#64

Tetrachloroethene

Concen: 13.465 ug/l

RT: 9.33 min Scan# 1385

Delta R.T. 0.00 min

Lab File: VX013636.D

Acq: 27 Nov 2019 06:35

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion:164 Resp: 95958

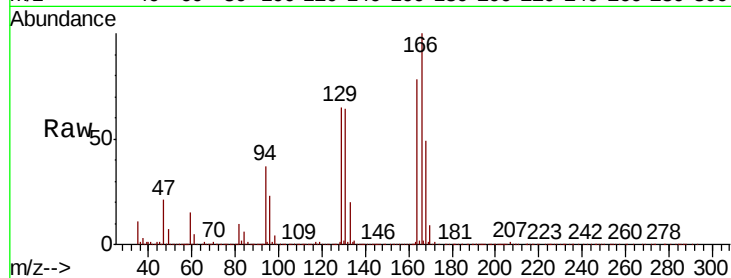
Ion Ratio Lower Upper

164 100

166 128.6 99.7 149.5

129 83.9 70.1 105.1

131 82.6 66.9 100.3

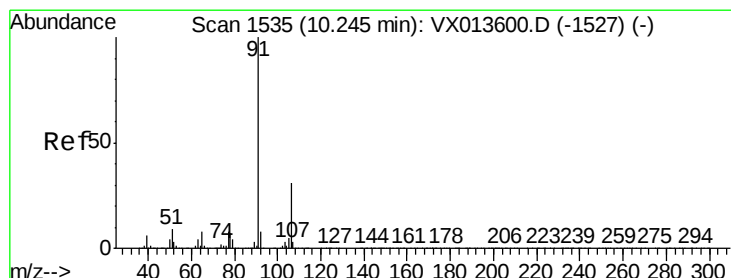
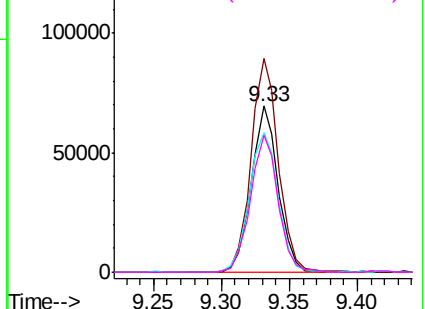
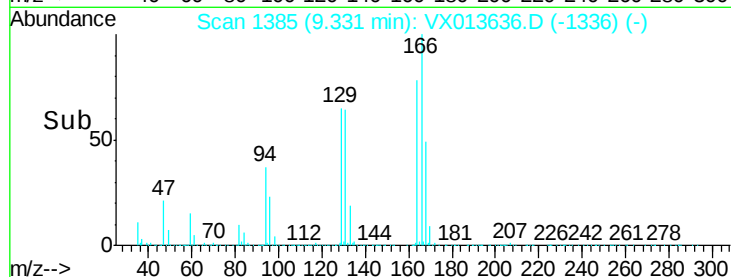


Abundance Ion 163.80 (163.50 to 164.50): V

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



#67

Ethyl Benzene

Concen: 0.244 ug/l

RT: 10.25 min Scan# 1536

Delta R.T. 0.01 min

Lab File: VX013636.D

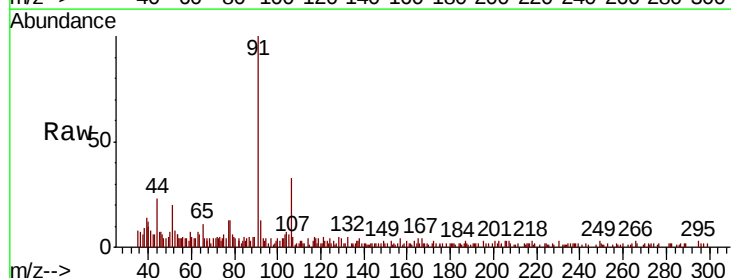
Acq: 27 Nov 2019 06:35

Tgt Ion: 91 Resp: 8334

Ion Ratio Lower Upper

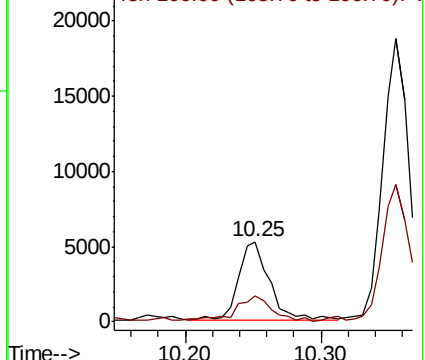
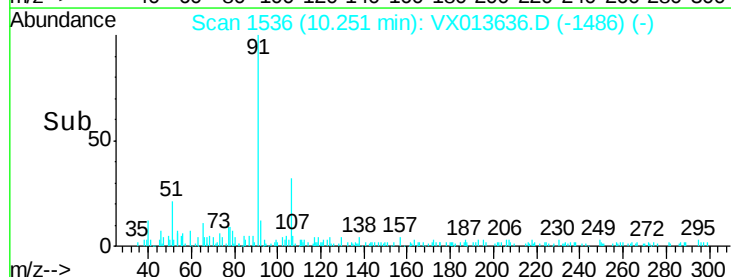
91 100

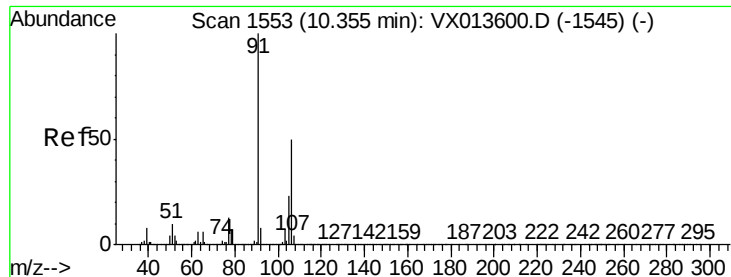
106 29.0 24.5 36.7



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 106.00 (105.70 to 106.70): V





#68

m/p-Xvlenes

Concen: 1.061 ug/l

RT: 10.36 min Scan# 1553

Delta R.T. 0.00 min

Lab File: VX013636.D

Acq: 27 Nov 2019 06:35

Instrument :

MSVOA_X

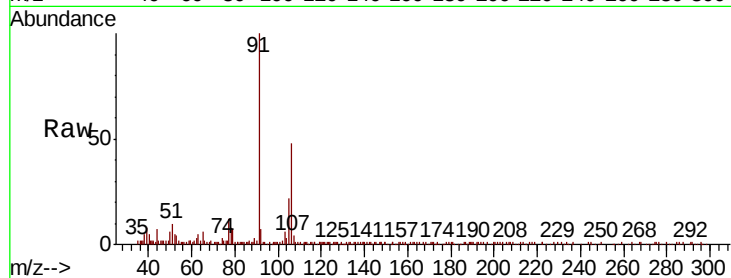
ClientSampleId :

Tot Ion:106 Resp: 13845

Ion Ratio Lower Upper

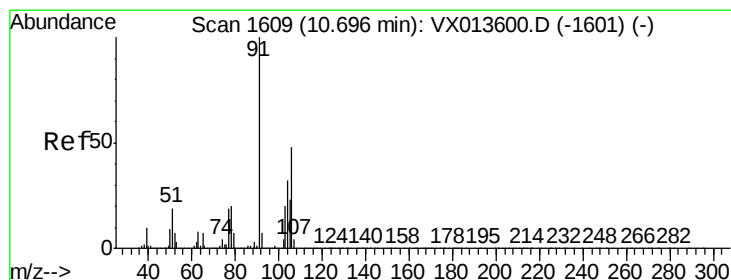
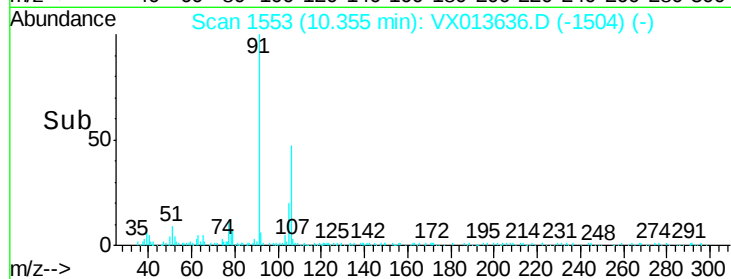
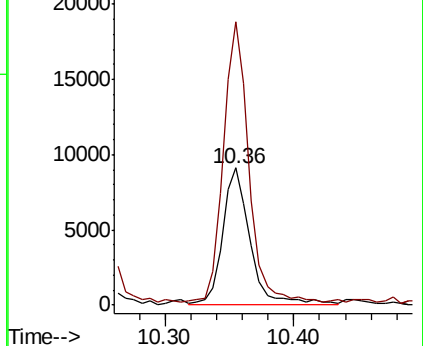
106 100

91 185.7 159.0 238.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VX0



#69

o-Xylene

Concen: 0.283 ug/l

RT: 10.70 min Scan# 1609

Delta R.T. 0.00 min

Lab File: VX013636.D

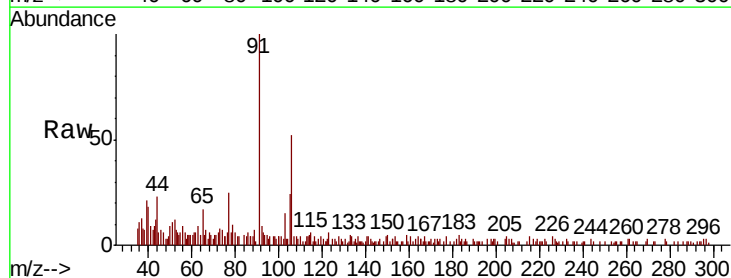
Acq: 27 Nov 2019 06:35

Tgt Ion:106 Resp: 3608

Ion Ratio Lower Upper

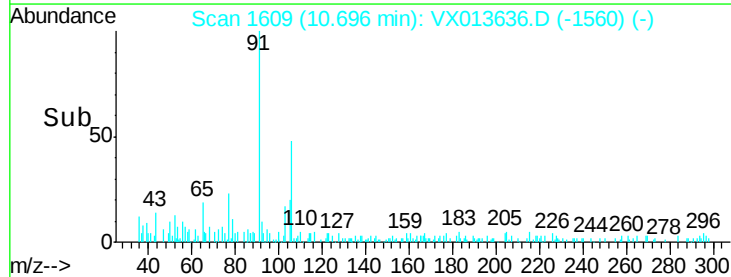
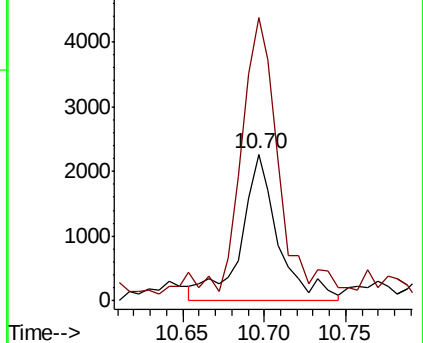
106 100

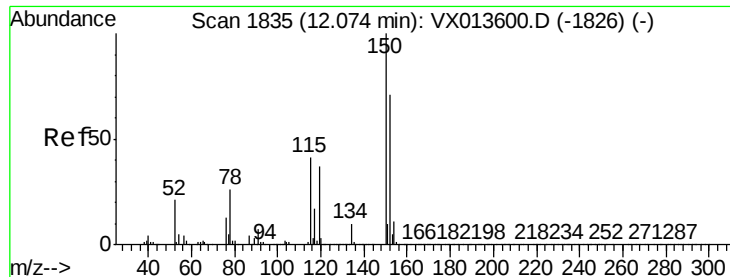
91 182.1 104.1 312.2



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VX0



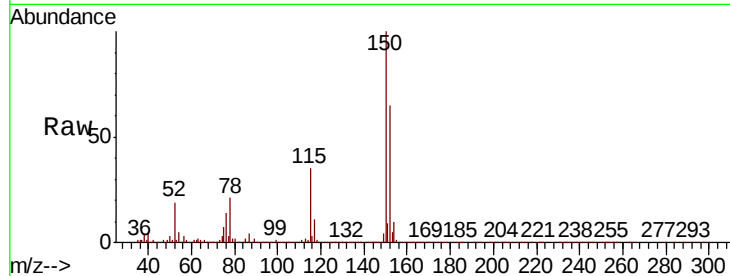


#72

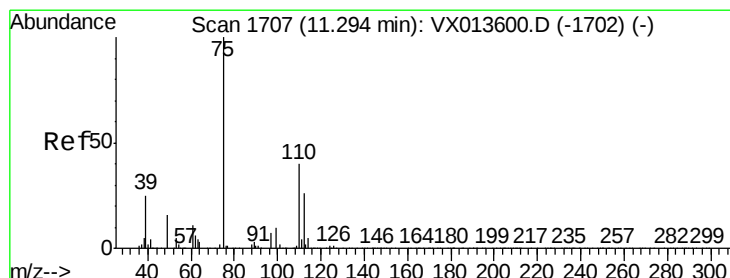
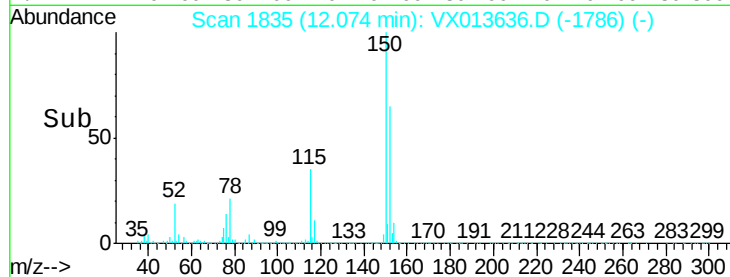
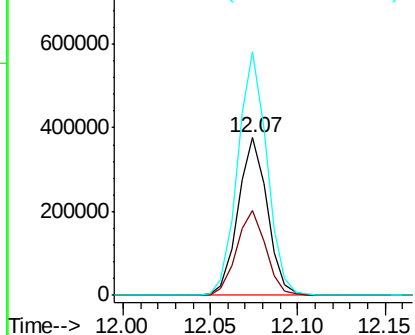
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. 0.00 min
Lab File: VX013636.D
Acq: 27 Nov 2019 06:35

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
115	54.1	38.4	115.1
150	155.0	0.0	346.8



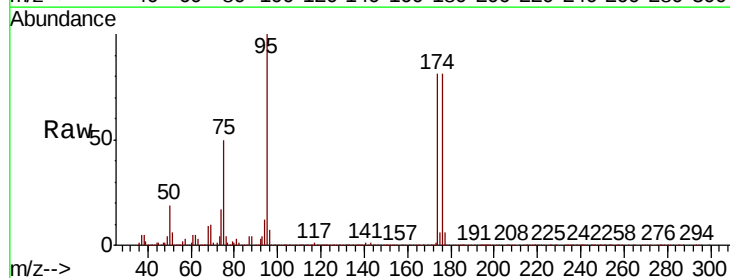
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



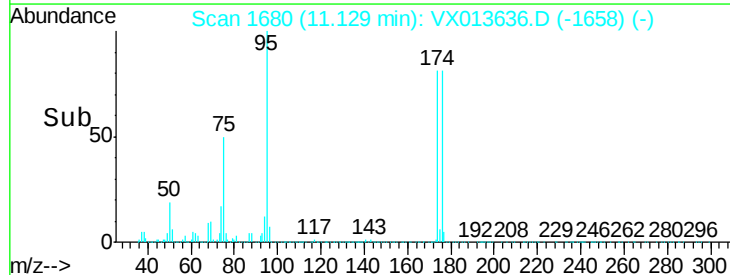
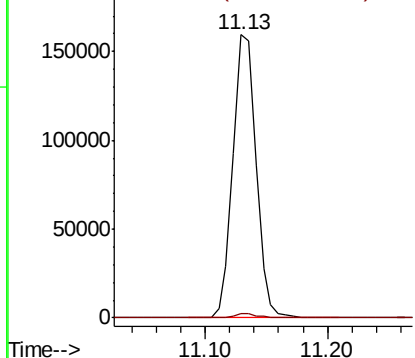
#76

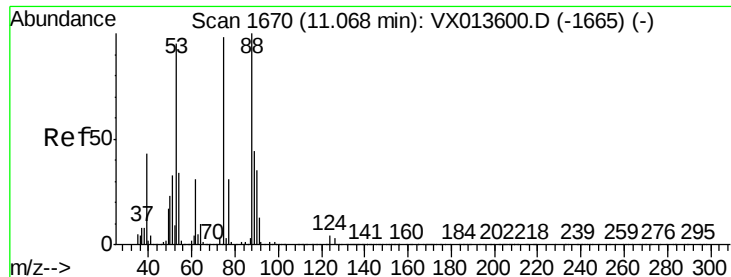
1,2,3-Trichloropropane
Concen: 21.326 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. -0.16 min
Lab File: VX013636.D
Acq: 27 Nov 2019 06:35

Tgt Ion	Ratio	Lower	Upper
75	100		
77	1.9	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: 58.345 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX013636.D

Acq: 27 Nov 2019 06:35

Instrument :

MSVOA_X

ClientSampleId :

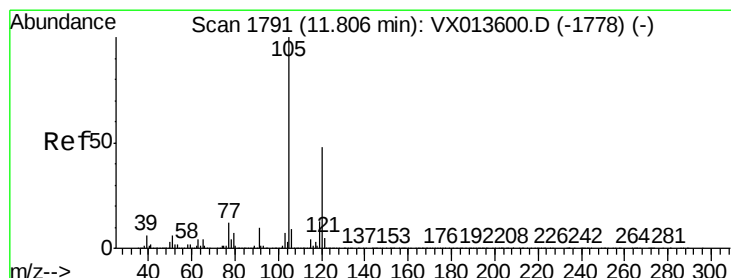
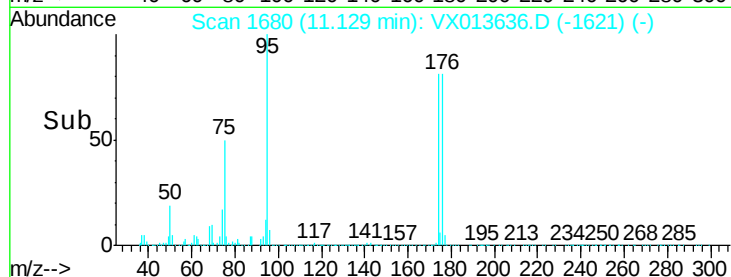
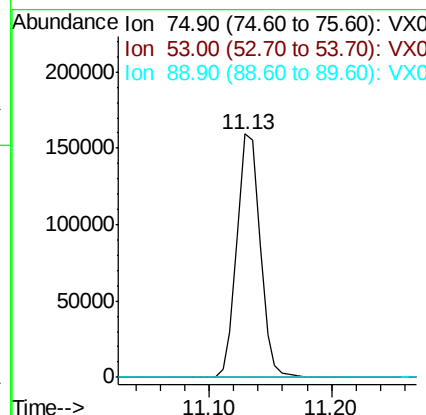
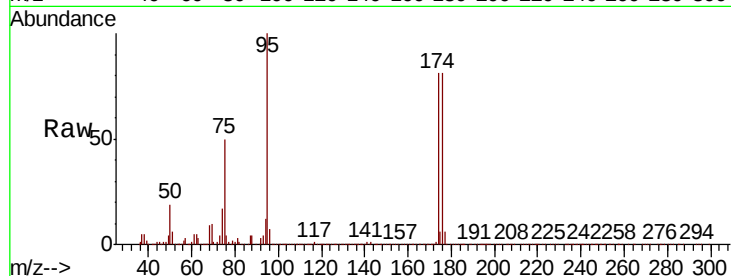
Tot Ion: 75 Resp: 209011

Ion Ratio Lower Upper

75 100

53 0.1 78.2 117.2#

89 0.0 35.4 53.2#



#84

1,2,4-Trimethylbenzene

Concen: 0.368 ug/l

RT: 11.81 min Scan# 1791

Delta R.T. 0.00 min

Lab File: VX013636.D

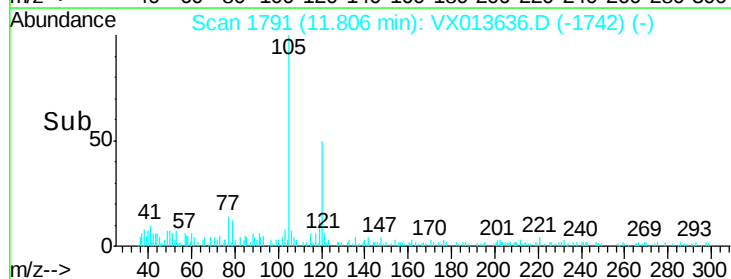
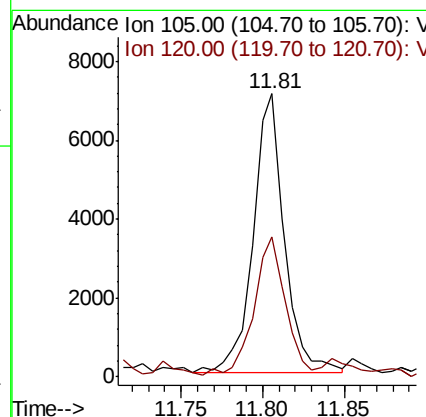
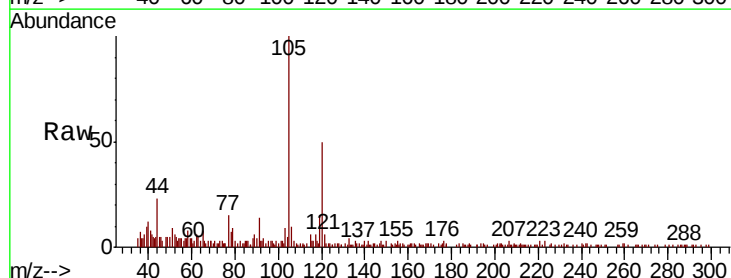
Acq: 27 Nov 2019 06:35

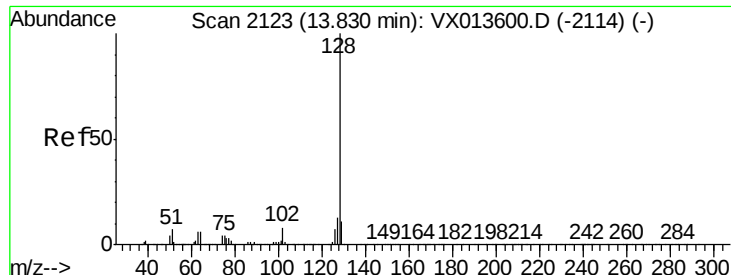
Tgt Ion: 105 Resp: 9368

Ion Ratio Lower Upper

105 100

120 49.6 23.1 69.3





#95

Naphthalene

Concen: 2.428 ug/l

RT: 13.83 min Scan# 2123

Delta R.T. 0.00 min

Lab File: VX013636.D

Acq: 27 Nov 2019 06:35

Instrument :

MSVOA_X

ClientSampleId :

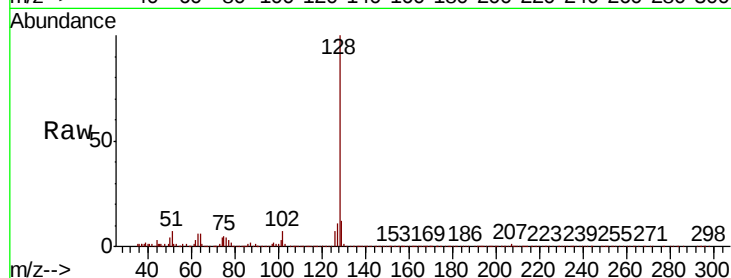
Tot Ion:128 Resp: 71659

Ion Ratio Lower Upper

128 100

127 12.6 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

