

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX120319\
 Data File : VX013723.D
 Acq On : 03 Dec 2019 14:38
 Operator : JC/SP
 Sample : K5675-09
 Misc : 4.28g/5mL/100uL/5.00mL/MSVOA_X/MEOH
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Dec 03 15:05:24 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	639002	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	977443	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	871976	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	434712	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.05	65	355201	47.89	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.78%	
35) Dibromofluoromethane	5.49	113	282495	46.75	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.50%	
50) Toluene-d8	8.71	98	1160956	49.31	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.62%	
62) 4-Bromofluorobenzene	11.14	95	407513	48.00	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.00%	

Target Compounds

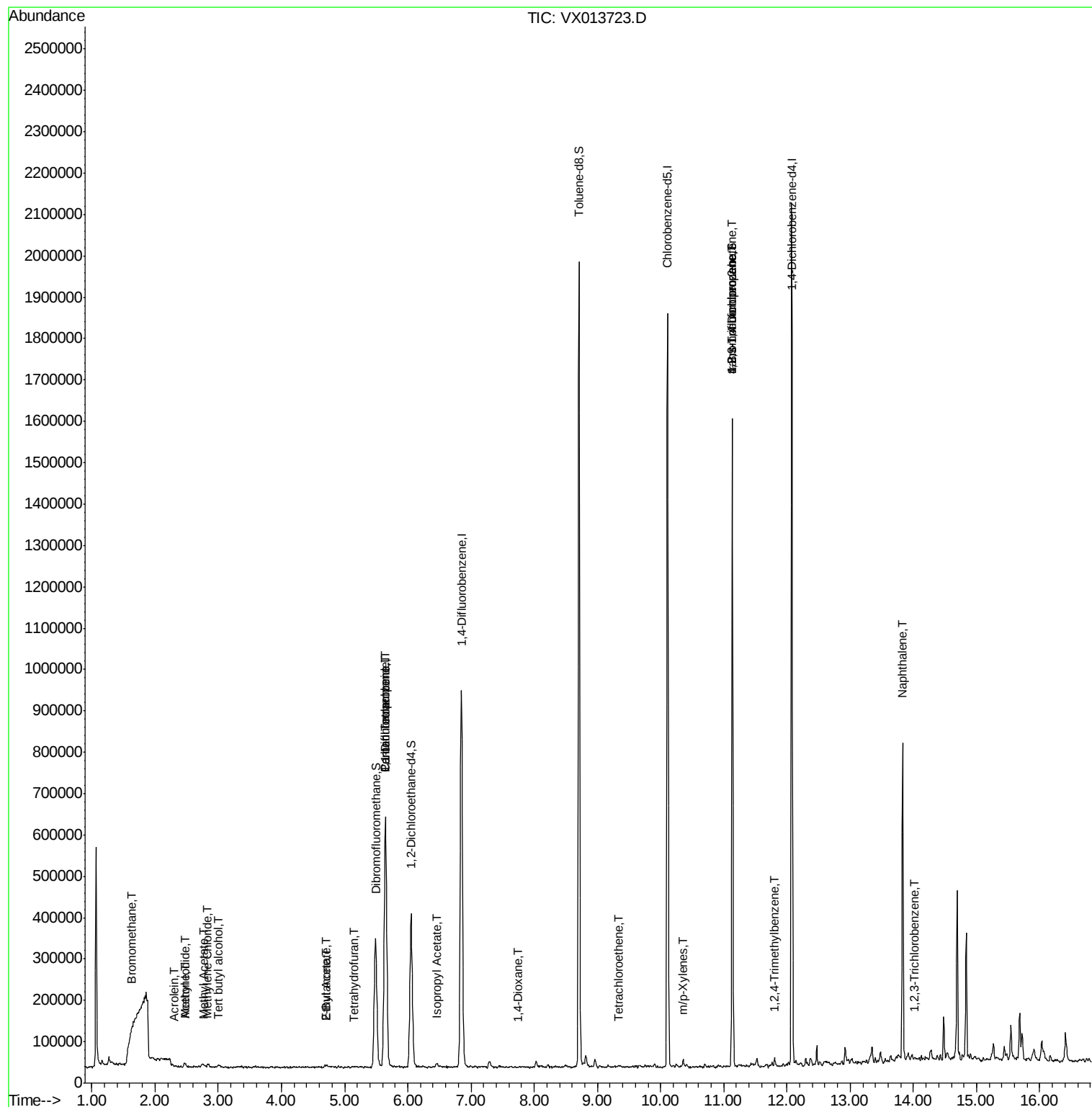
					Qvalue	
5) Bromomethane	1.62	94	2948	0.489	ug/l	92
10) Methyl Iodide	2.48	142	3544	0.481	ug/l	90
11) Tert butyl alcohol	3.00	59	3805	2.078	ug/l #	61
13) Acrolein	2.30	56	1148	6.919	ug/l #	15
16) Acetone	2.48	43	12105	3.306	ug/l #	82
18) Methyl Acetate	2.78	43	12558	1.231	ug/l #	85
20) Methylene Chloride	2.84	84	6025	0.856	ug/l #	79
25) 2-Butanone	4.70	43	16617	3.053	ug/l	91
29) Tetrahydrofuran	5.14	42	1293	0.385	ug/l	94
36) 1,1-Dichloropropene	5.65	75	42714	4.814	ug/l #	52
37) Ethyl Acetate	4.70	43	16617	1.669	ug/l #	75
38) Carbon Tetrachloride	5.65	117	56753	6.937	ug/l #	16
43) Isopropyl Acetate	6.45	43	7936	0.484	ug/l #	67
49) 1,4-Dioxane	7.74	88	56	0.314	ug/l #	1
64) Tetrachloroethene	9.33	164	1440	0.221	ug/l #	66
68) m/p-Xylenes	10.35	106	4582	0.385	ug/l	84
76) 1,2,3-Trichloropropane	11.14	75	198666	20.319	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.14	75	198666	55.589	ug/l #	11
84) 1,2,4-Trimethylbenzene	11.81	105	10577	0.417	ug/l	100
95) Naphthalene	13.83	128	473290	16.072	ug/l	100
96) 1,2,3-Trichlorobenzene	14.02	180	3038	0.310	ug/l	79

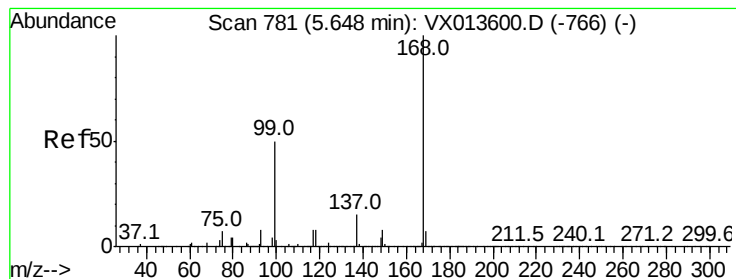
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampleId :

Quant Time: Dec 03 15:05:24 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# 781

Delta R.T. 0.00 min

Lab File: VX013723.D

Acq: 03 Dec 2019 14:38

Instrument :

MSVOA_X

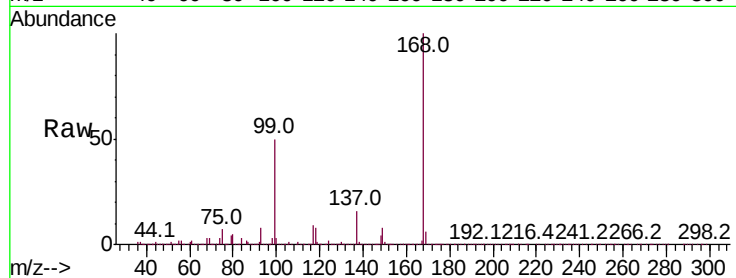
ClientSampled :

Tot Ion:168 Resp: 639002

Ion Ratio Lower Upper

168 100

99 49.7 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

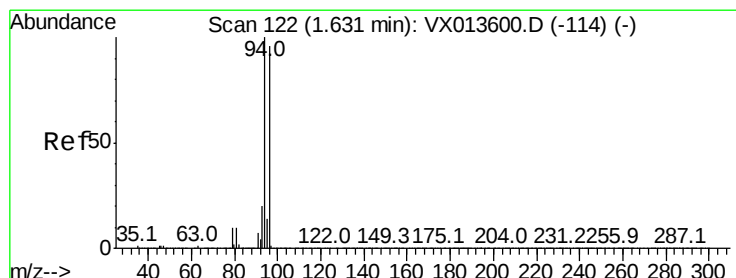
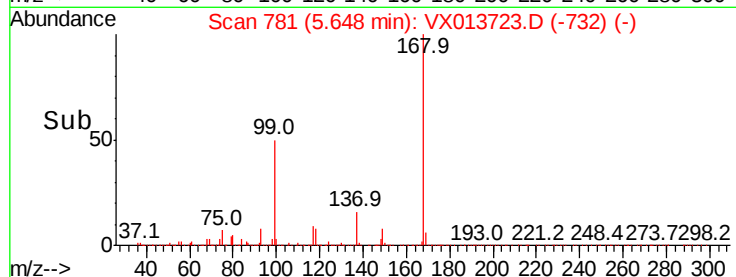
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: 0.489 ug/l

RT: 1.62 min Scan# 121

Delta R.T. -0.01 min

Lab File: VX013723.D

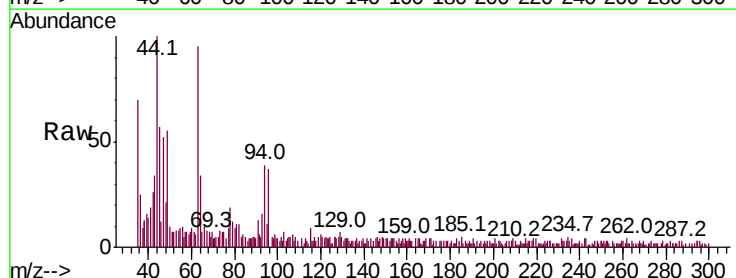
Acq: 03 Dec 2019 14:38

Tgt Ion: 94 Resp: 2948

Ion Ratio Lower Upper

94 100

96 88.6 77.0 115.4



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.62

3000

2500

2000

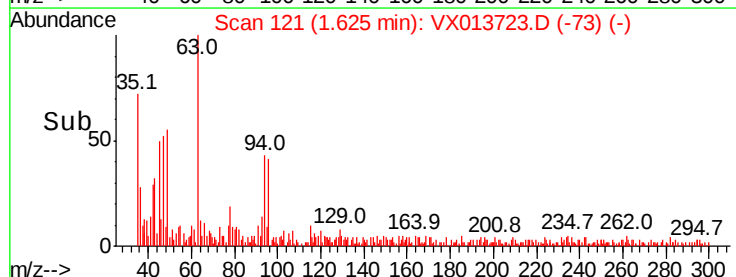
1500

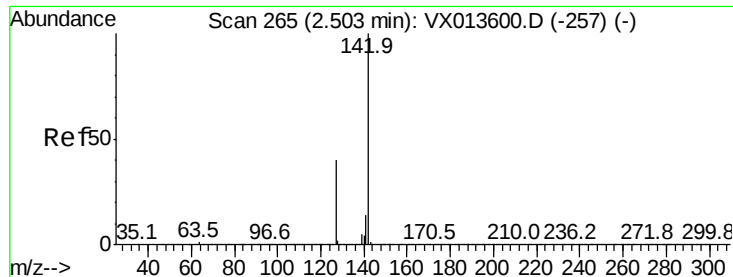
1000

500

0

Time-->

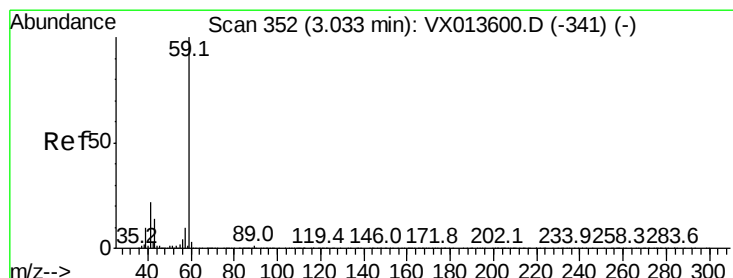
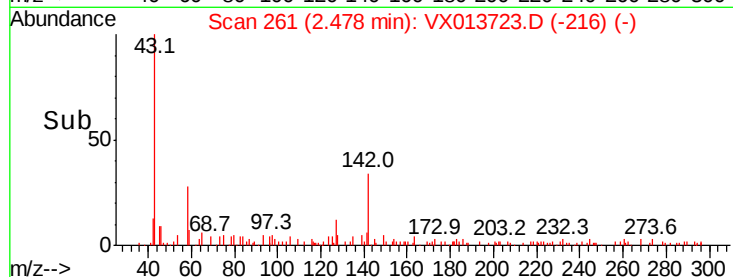
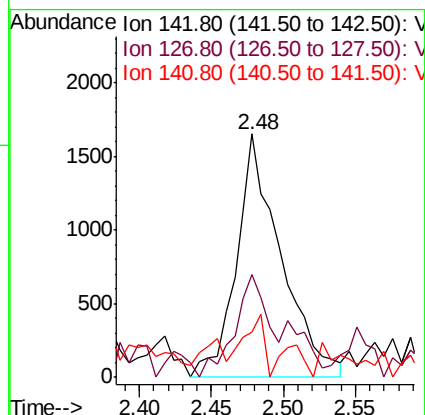
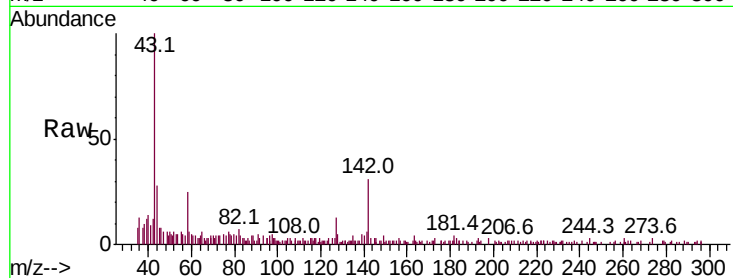




#10
Methvl Iodide
Concen: 0.481 ug/l
RT: 2.48 min Scan# 261
Delta R.T. -0.02 min
Lab File: VX013723.D
Acq: 03 Dec 2019 14:38

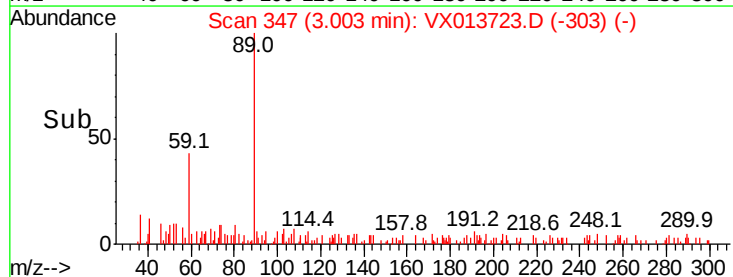
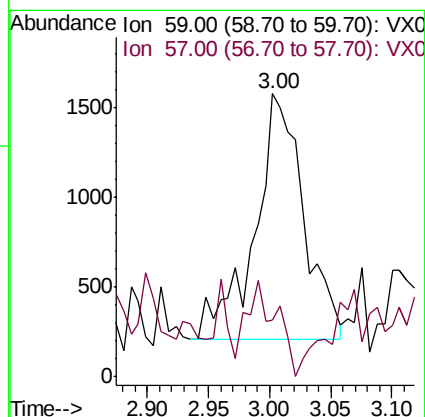
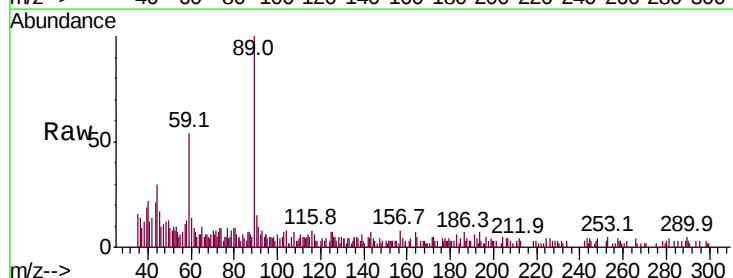
Instrument :
MSVOA_X
ClientSampleId :

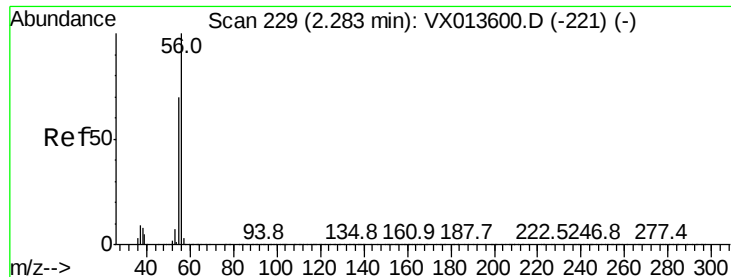
Tot Ion:142 Resp: 3544
Ion Ratio Lower Upper
142 100
127 31.7 31.0 46.4
141 12.3 11.6 17.4



#11
Tert butyl alcohol
Concen: 2.078 ug/l
RT: 3.00 min Scan# 347
Delta R.T. -0.03 min
Lab File: VX013723.D
Acq: 03 Dec 2019 14:38

Tgt Ion: 59 Resp: 3805
Ion Ratio Lower Upper
59 100
57 23.9 7.8 11.6#

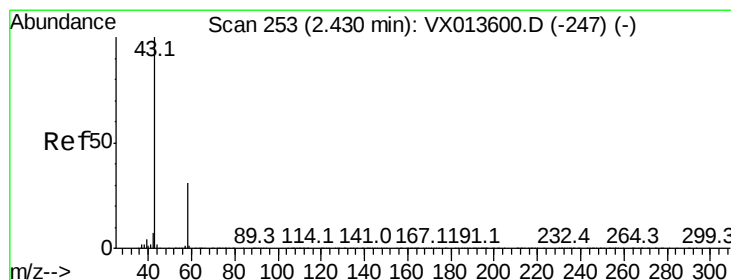
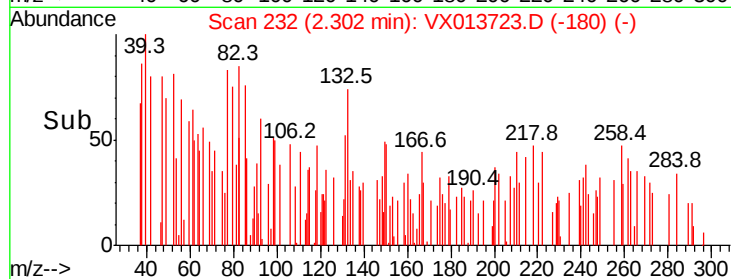
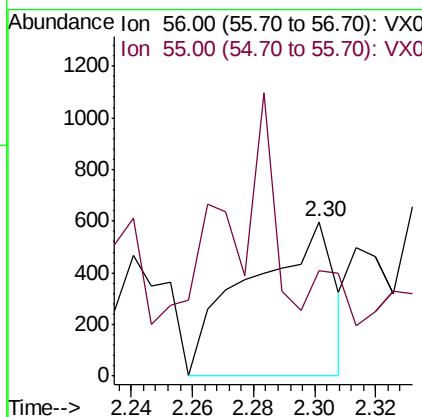
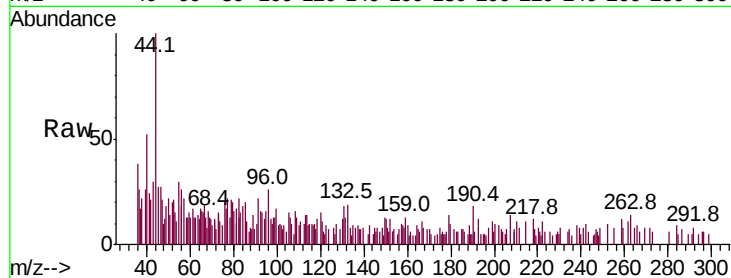




#13
Acrolein
Concen: 6.919 ug/l
RT: 2.30 min Scan# 232
Delta R.T. 0.02 min
Lab File: VX013723.D
Acq: 03 Dec 2019 14:38

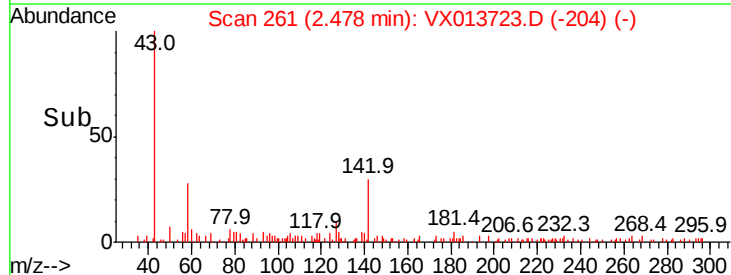
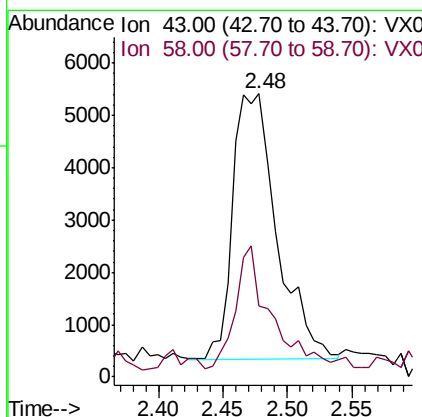
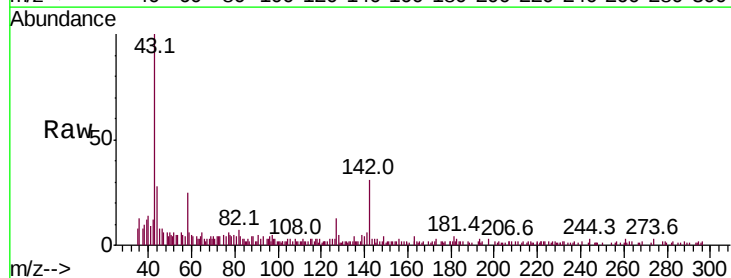
Instrument :
MSVOA_X
ClientSampleId :

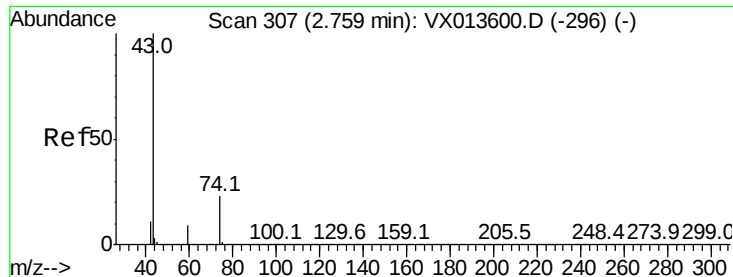
Tot Ion: 56 Resp: 1148
Ion Ratio Lower Upper
56 100
55 0.0 56.2 84.4#



#16
Acetone
Concen: 3.306 ug/l
RT: 2.48 min Scan# 261
Delta R.T. 0.05 min
Lab File: VX013723.D
Acq: 03 Dec 2019 14:38

Tgt Ion: 43 Resp: 12105
Ion Ratio Lower Upper
43 100
58 20.7 24.6 36.8#

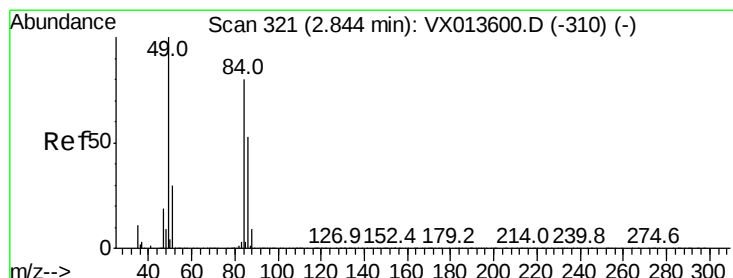
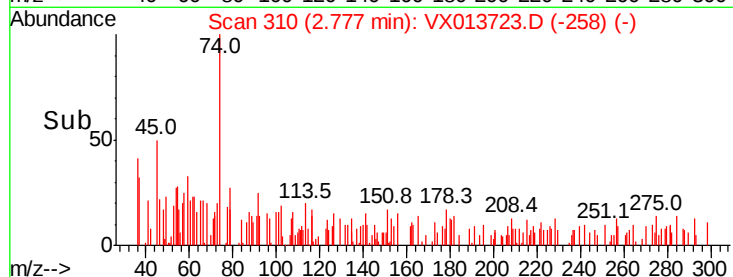
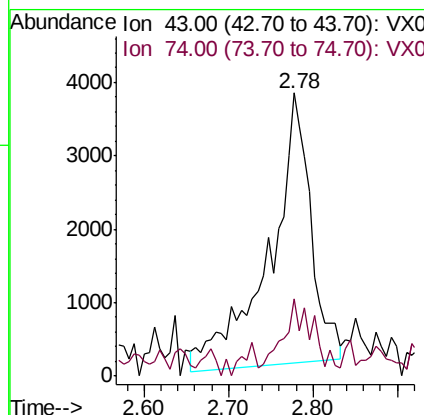
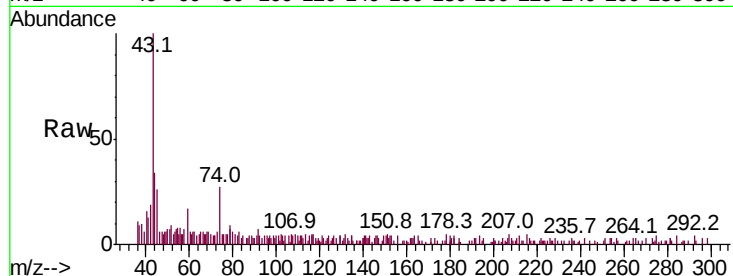




#18
Methyl Acetate
Concen: 1.231 ug/l
RT: 2.78 min Scan# 310
Delta R.T. 0.02 min
Lab File: VX013723.D
Acq: 03 Dec 2019 14:38

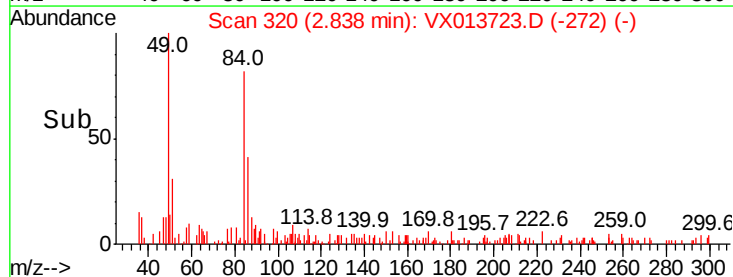
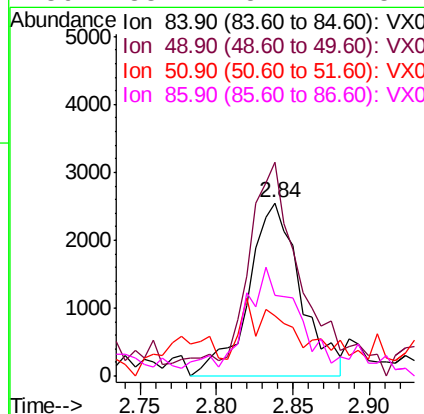
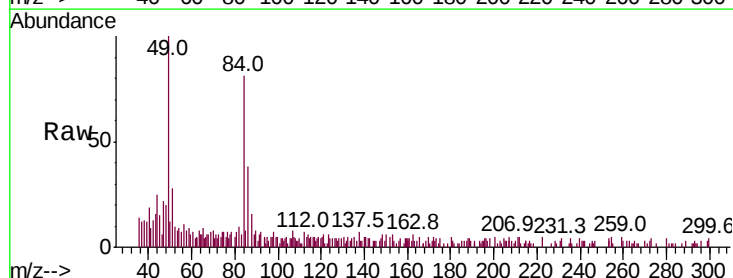
Instrument :
MSVOA_X
ClientSampleId :

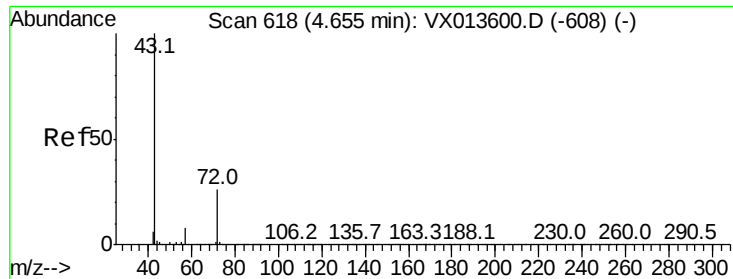
Tot Ion: 43 Resp: 12558
Ion Ratio Lower Upper
43 100
74 17.0 19.5 29.3#



#20
Methylene Chloride
Concen: 0.856 ug/l
RT: 2.84 min Scan# 320
Delta R.T. -0.01 min
Lab File: VX013723.D
Acq: 03 Dec 2019 14:38

Tgt Ion: 84 Resp: 6025
Ion Ratio Lower Upper
84 100
49 113.0 99.7 149.5
51 16.5 29.9 44.9#
86 38.2 52.2 78.4#





#25

2-Butanone

Concen: 3.053 ug/l

RT: 4.70 min Scan# 626

Delta R.T. 0.05 min

Lab File: VX013723.D

Acq: 03 Dec 2019 14:38

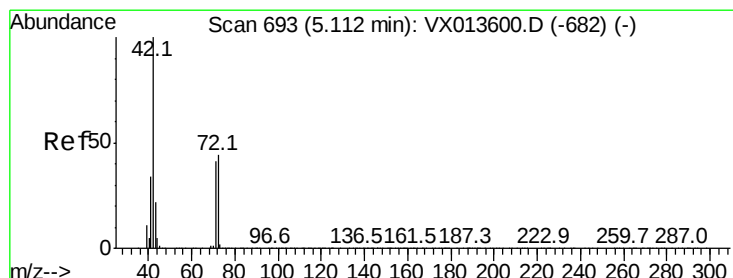
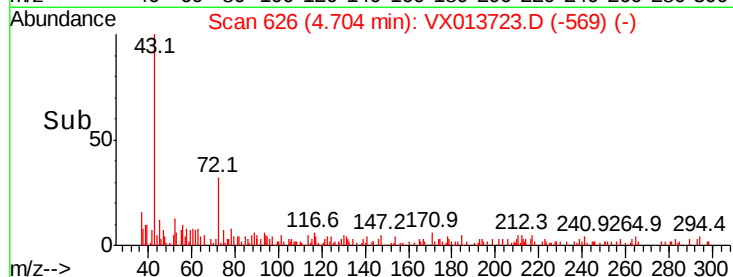
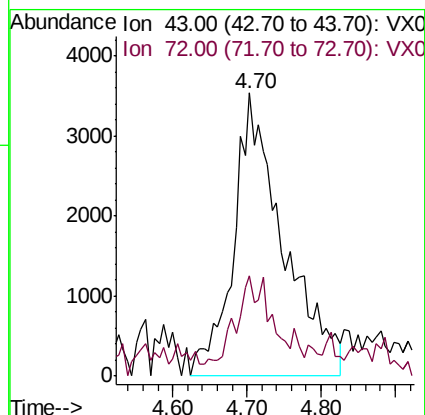
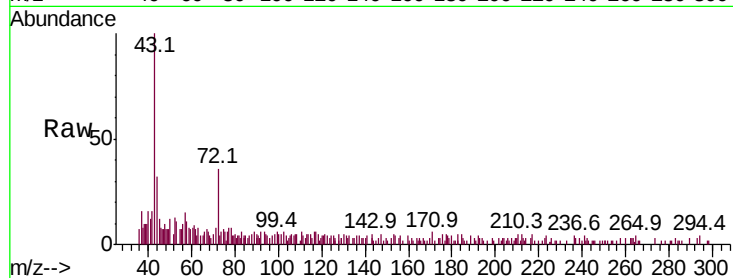
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 43 Resp: 16617

Ion Ratio Lower Upper

43 100

72 30.2 20.6 31.0



#29

Tetrahydrofuran

Concen: 0.385 ug/l

RT: 5.14 min Scan# 698

Delta R.T. 0.03 min

Lab File: VX013723.D

Acq: 03 Dec 2019 14:38

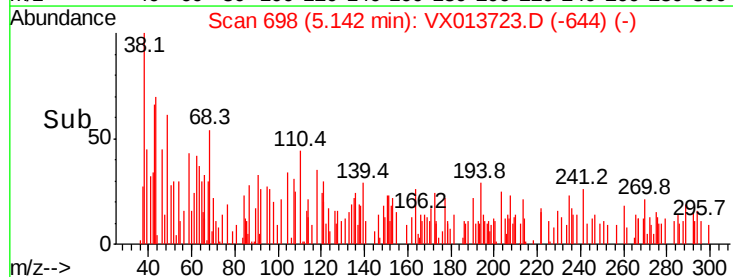
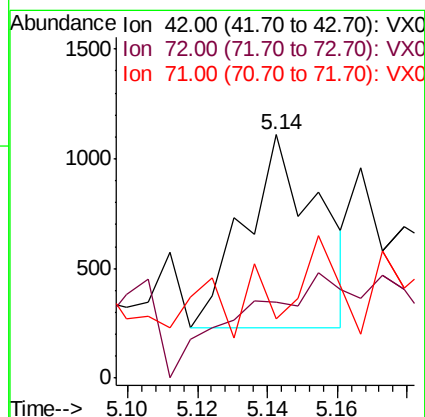
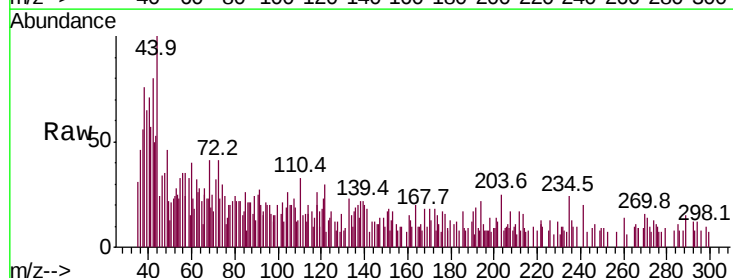
Tgt Ion: 42 Resp: 1293

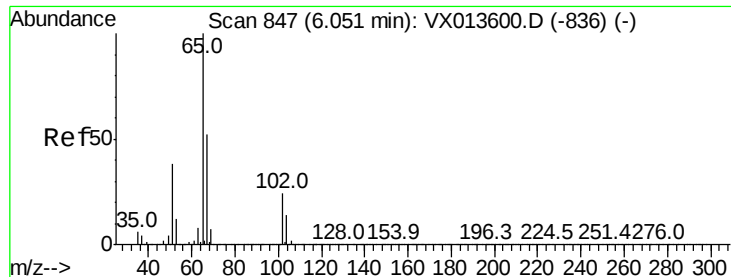
Ion Ratio Lower Upper

42 100

72 38.6 36.3 54.5

71 42.7 33.2 49.8





#33

1,2-Dichloroethane-d4

Concen: 47.888 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX013723.D

Acq: 03 Dec 2019 14:38

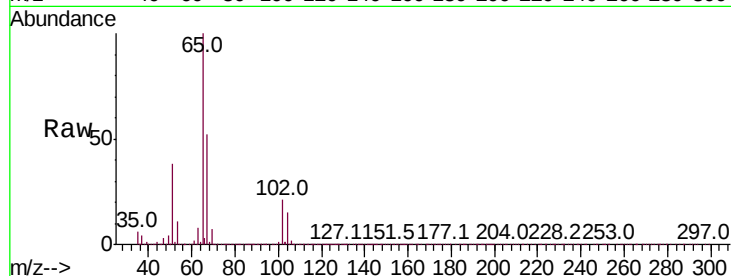
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 65 Resp: 355201

Ion Ratio Lower Upper

65 100

67 51.6 0.0 104.4



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.05

150000

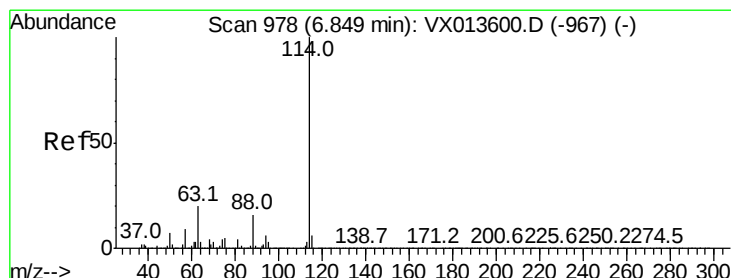
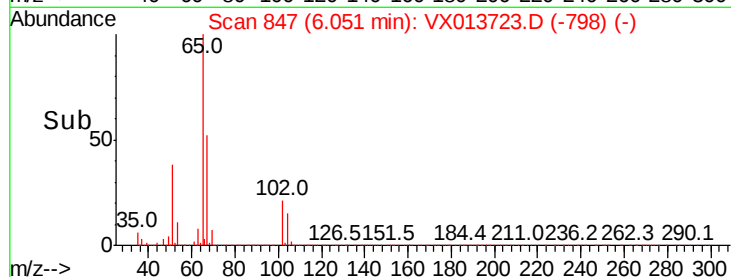
100000

50000

0

Time-->

5.90 6.00 6.10 6.20



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX013723.D

Acq: 03 Dec 2019 14:38

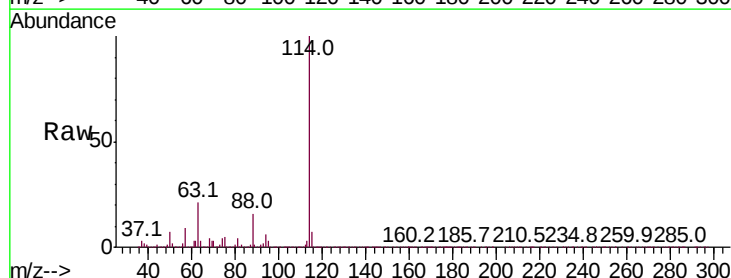
Tgt Ion: 114 Resp: 977443

Ion Ratio Lower Upper

114 100

63 20.7 0.0 39.6

88 16.3 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

500000

400000

300000

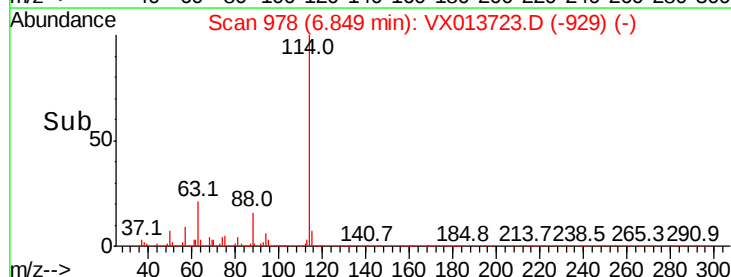
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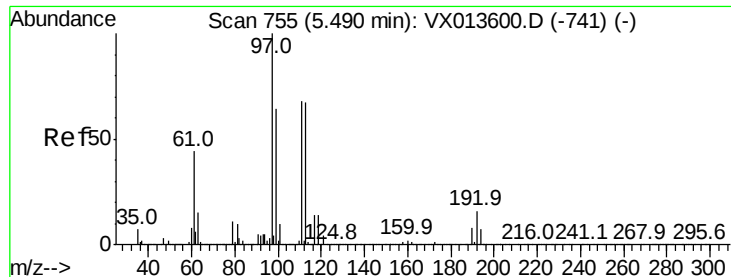
100000

0

Time-->

6.70 6.80 6.90 7.00





#35

Dibromofluoromethane

Concen: 46.750 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX013723.D

Acq: 03 Dec 2019 14:38

Instrument :
MSVOA_X
ClientSampleId :

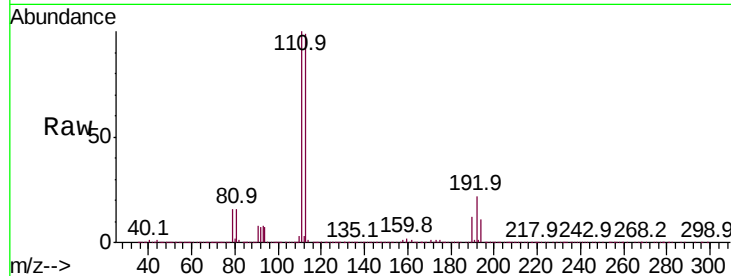
Tot Ion:113 Resp: 282495

Ion Ratio Lower Upper

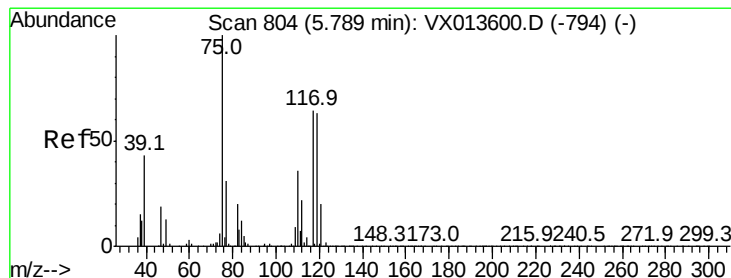
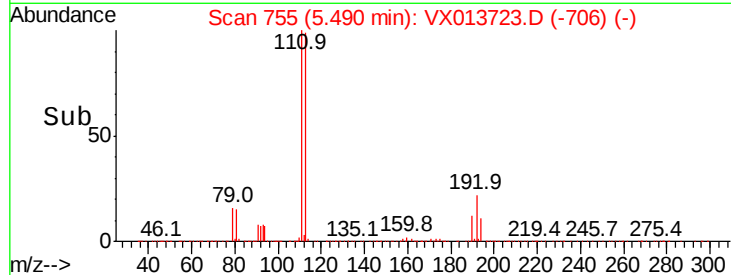
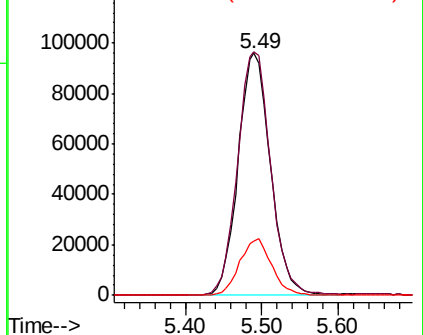
113 100

111 102.2 83.6 125.4

192 23.2 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: 4.814 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.14 min

Lab File: VX013723.D

Acq: 03 Dec 2019 14:38

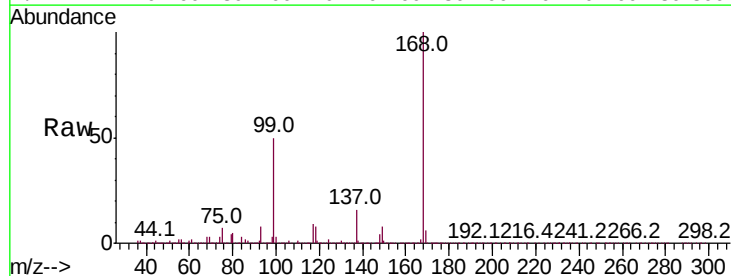
Tgt Ion: 75 Resp: 42714

Ion Ratio Lower Upper

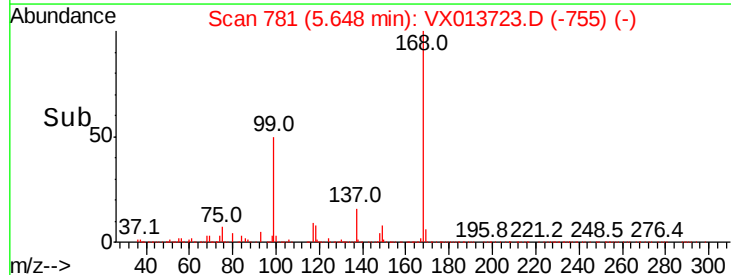
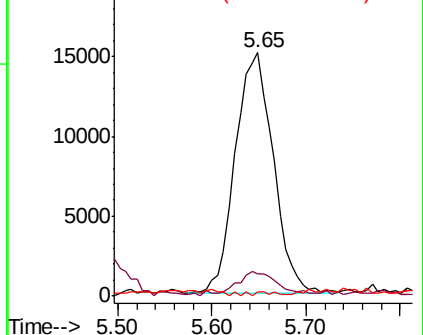
75 100

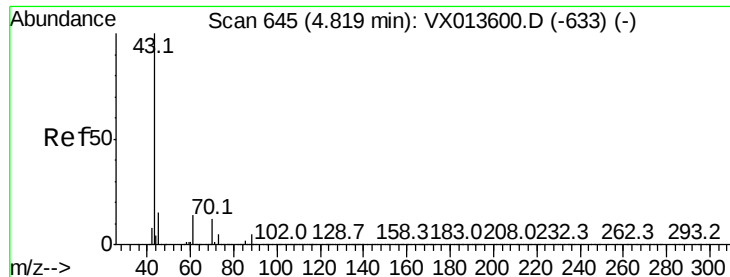
110 11.4 18.1 54.1#

77 0.5 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





#37

Ethyl Acetate

Concen: 1.669 ug/l

RT: 4.70 min Scan# 626

Delta R.T. -0.12 min

Lab File: VX013723.D

Acq: 03 Dec 2019 14:38

Instrument :

MSVOA_X

ClientSampleId :

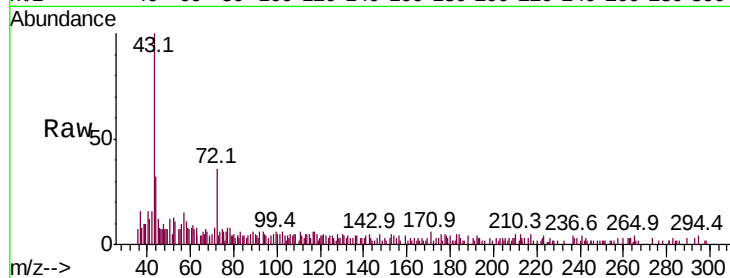
Tot Ion: 43 Resp: 16617

Ion Ratio Lower Upper

43 100

61 3.9 11.0 16.4#

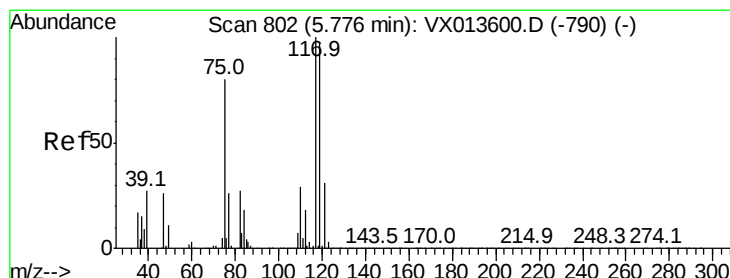
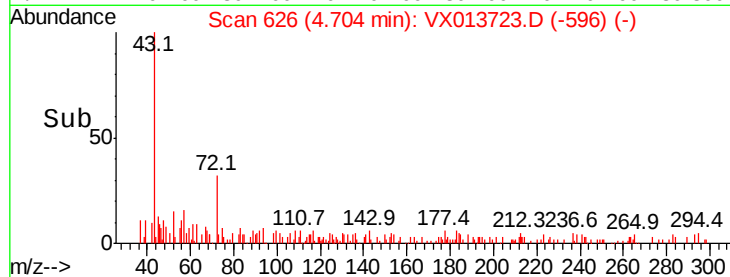
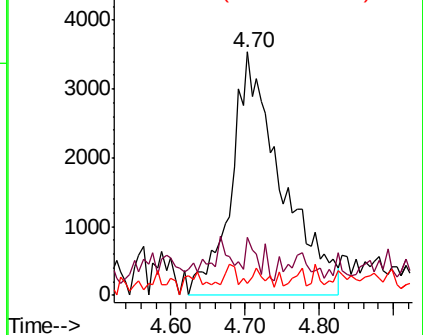
70 1.0 8.6 12.8#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 70.00 (69.70 to 70.70): VX0



#38

Carbon Tetrachloride

Concen: 6.937 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.13 min

Lab File: VX013723.D

Acq: 03 Dec 2019 14:38

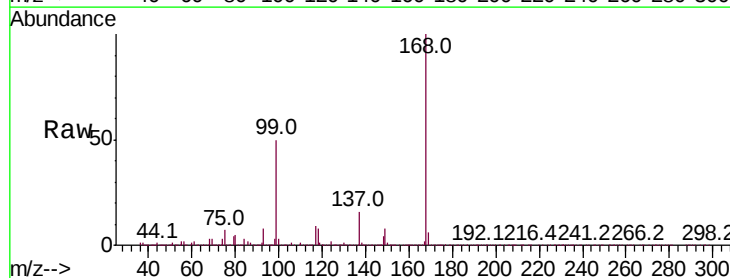
Tgt Ion: 117 Resp: 56753

Ion Ratio Lower Upper

117 100

119 5.0 77.5 116.3#

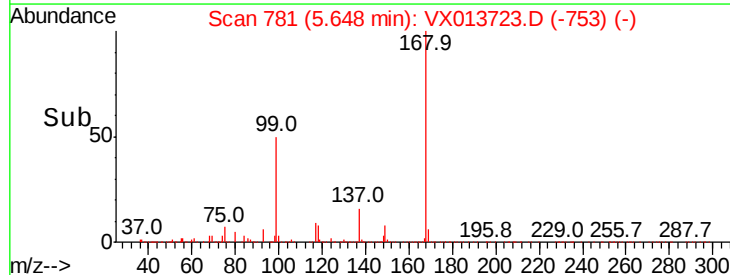
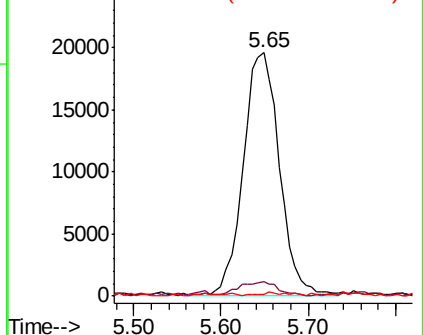
121 0.5 25.0 37.6#

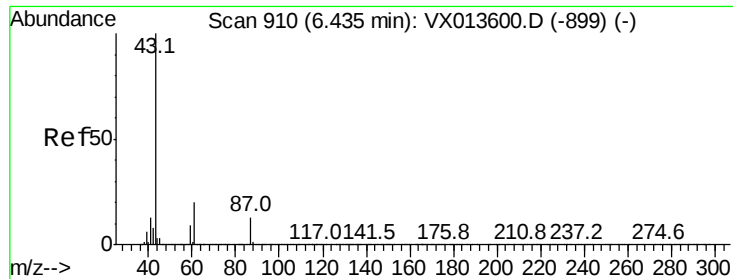


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#43

Isopropyl Acetate

Concen: 0.484 ug/l

RT: 6.45 min Scan# 913

Delta R.T. 0.02 min

Lab File: VX013723.D

Acq: 03 Dec 2019 14:38

Instrument :

MSVOA_X

ClientSampleId :

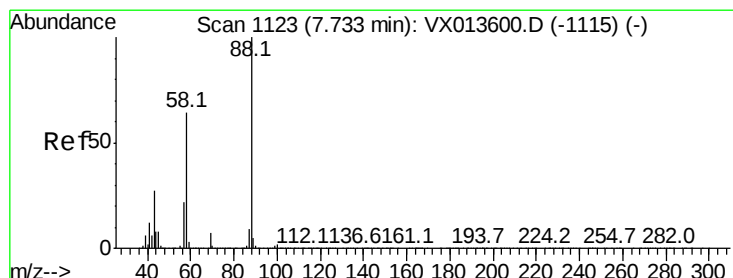
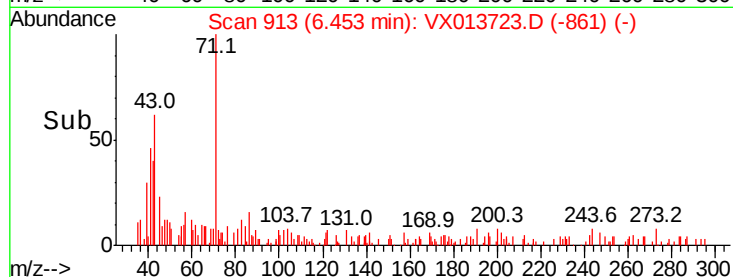
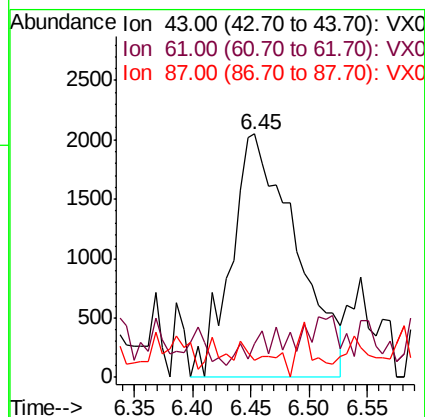
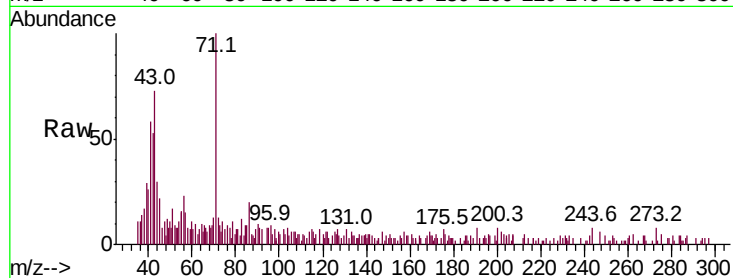
Tot Ion: 43 Resp: 7936

Ion Ratio Lower Upper

43 100

61 4.2 16.3 24.5#

87 1.1 10.8 16.2#



#49

1,4-Dioxane

Concen: 0.314 ug/l

RT: 7.74 min Scan# 1124

Delta R.T. 0.01 min

Lab File: VX013723.D

Acq: 03 Dec 2019 14:38

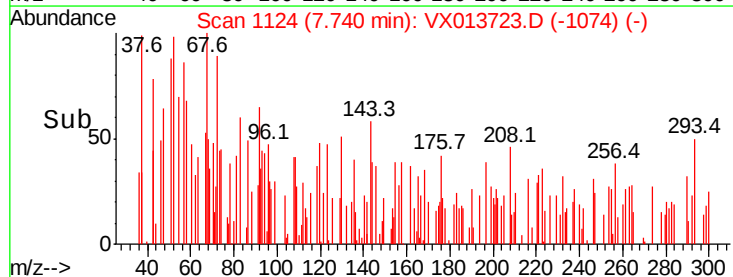
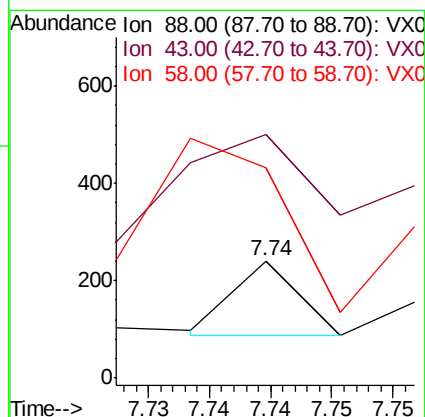
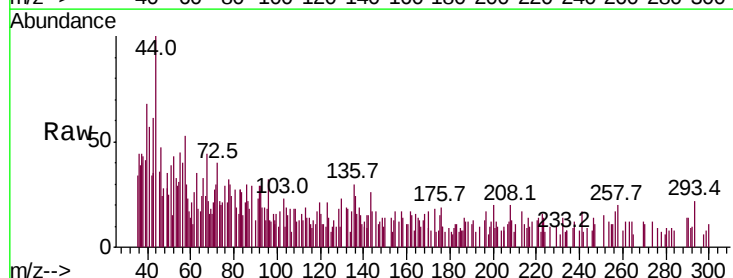
Tgt Ion: 88 Resp: 56

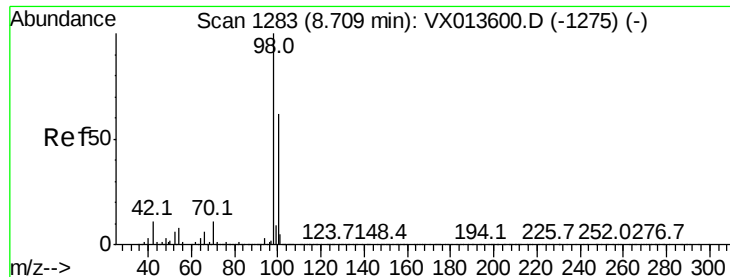
Ion Ratio Lower Upper

88 100

43 1685.7 25.8 38.6#

58 1335.7 54.6 82.0#





#50

Toluene-d8

Concen: 49.312 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX013723.D

Acq: 03 Dec 2019 14:38

Instrument :

MSVOA_X

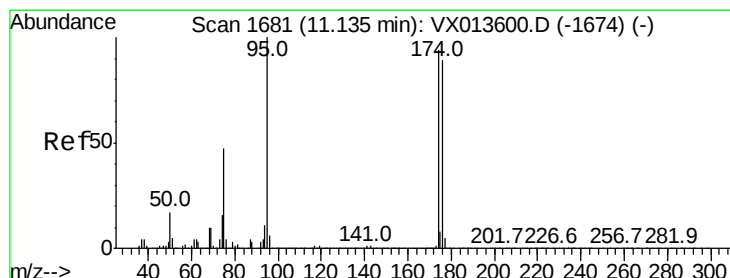
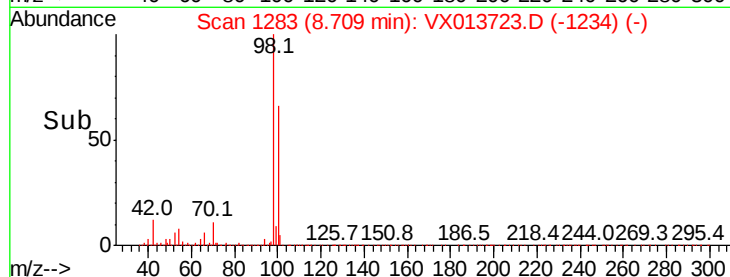
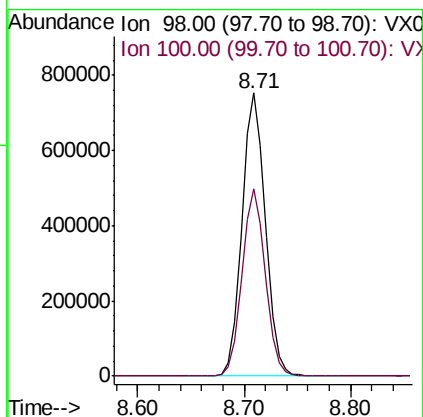
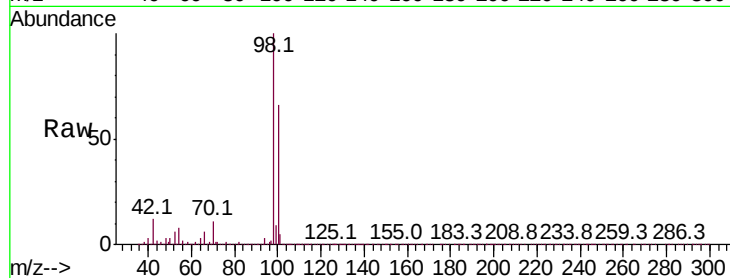
ClientSampleId :

Tot Ion: 98 Resp: 1160956

Ion Ratio Lower Upper

98 100

100 65.7 53.1 79.7



#62

4-Bromofluorobenzene

Concen: 48.001 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.00 min

Lab File: VX013723.D

Acq: 03 Dec 2019 14:38

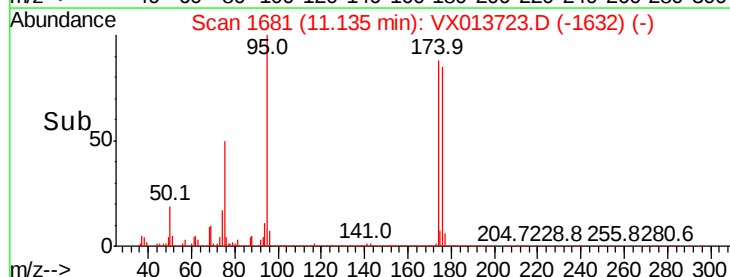
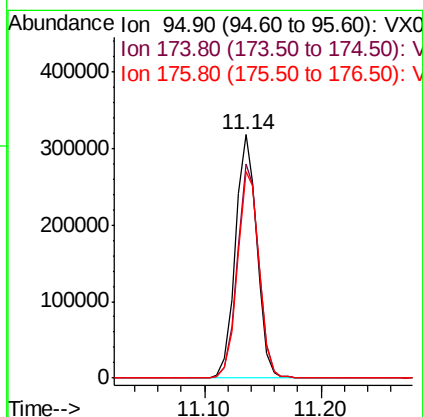
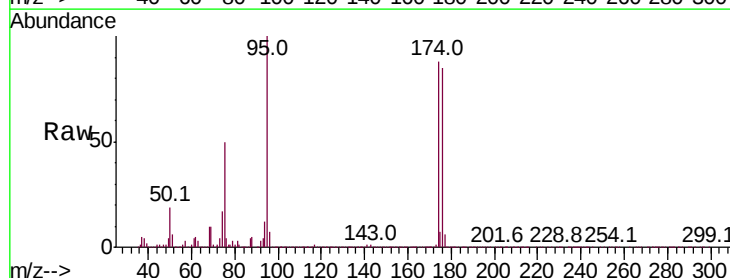
Tgt Ion: 95 Resp: 407513

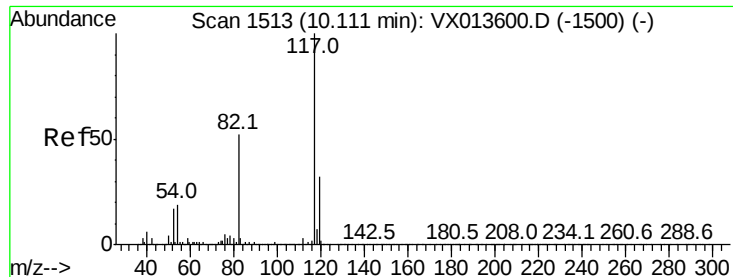
Ion Ratio Lower Upper

95 100

174 88.2 0.0 180.0

176 85.6 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: VX013723.D

Acq: 03 Dec 2019 14:38

Instrument :

MSVOA_X

ClientSampled :

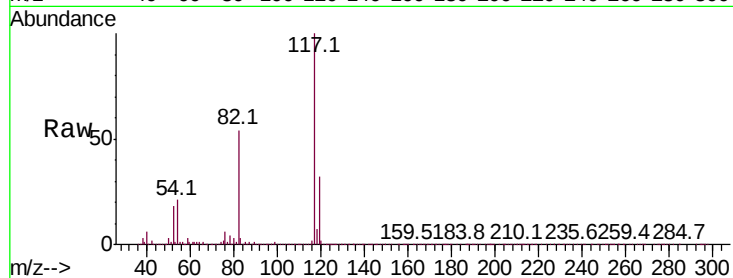
Tot Ion:117 Resp: 871976

Ion Ratio Lower Upper

117 100

82 54.1 41.8 62.8

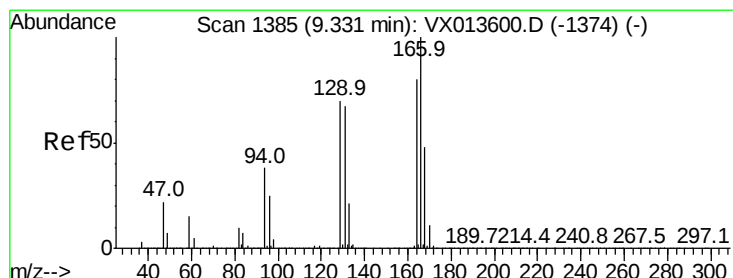
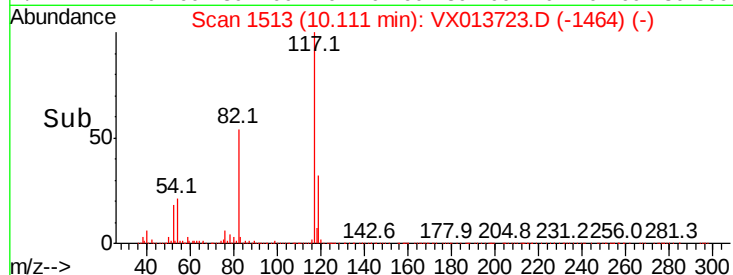
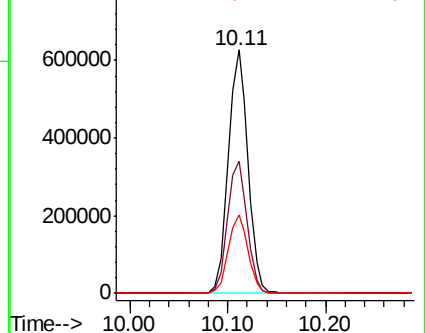
119 32.0 25.8 38.8



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: 0.221 ug/l

RT: 9.33 min Scan# 1385

Delta R.T. 0.00 min

Lab File: VX013723.D

Acq: 03 Dec 2019 14:38

Tgt Ion:164 Resp: 1440

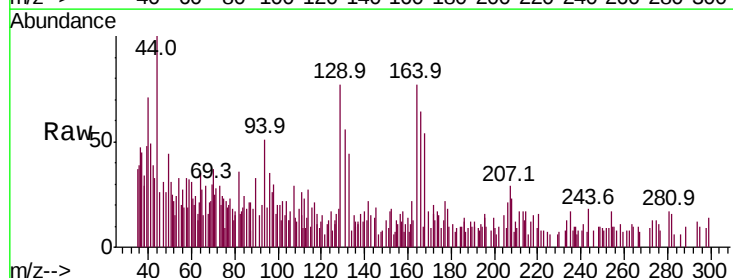
Ion Ratio Lower Upper

164 100

166 83.0 99.7 149.5#

129 66.2 70.1 105.1#

131 45.0 66.9 100.3#

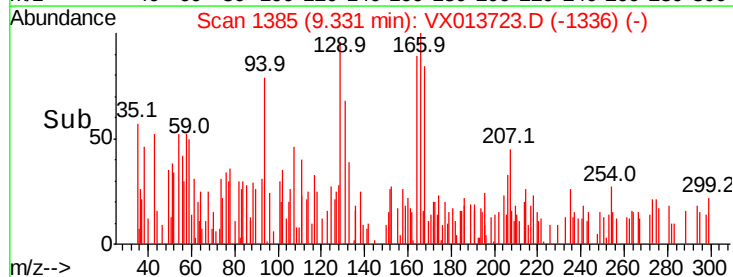
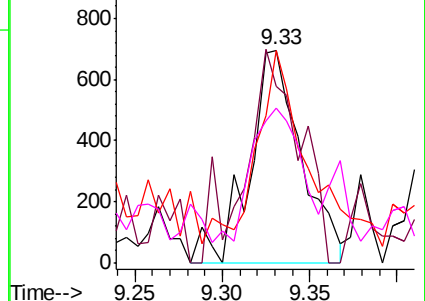


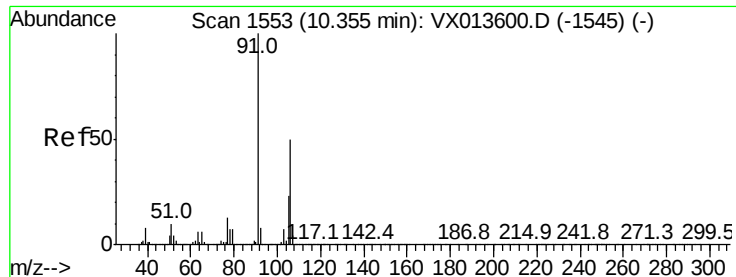
Abundance Ion 163.80 (163.50 to 164.50): V

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-Xvlenes

Concen: 0.385 ug/l

RT: 10.35 min Scan# 1553

Delta R.T. 0.00 min

Lab File: VX013723.D

Acq: 03 Dec 2019 14:38

Instrument :

MSVOA_X

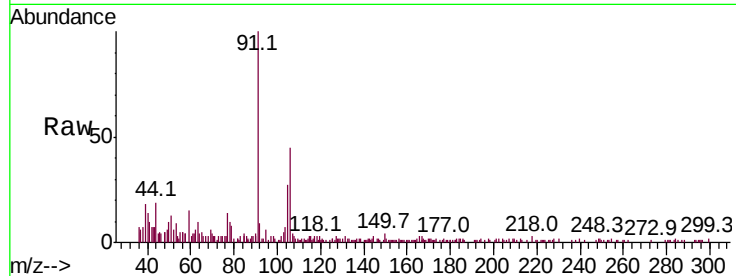
ClientSampleId :

Tot Ion:106 Resp: 4582

Ion Ratio Lower Upper

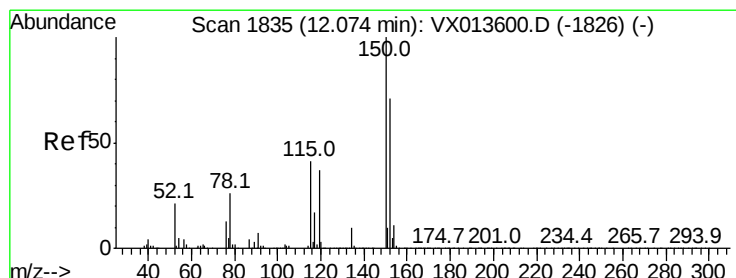
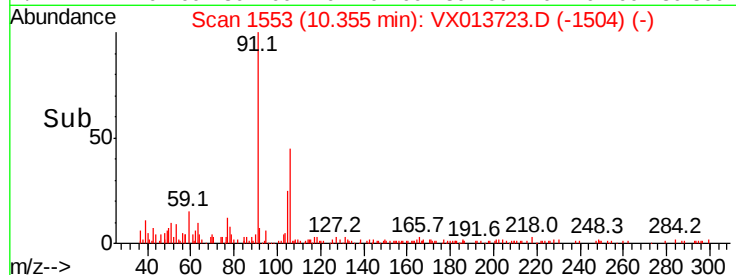
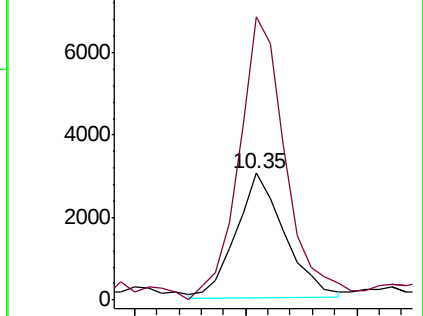
106 100

91 222.2 159.0 238.4



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: VX013723.D

Acq: 03 Dec 2019 14:38

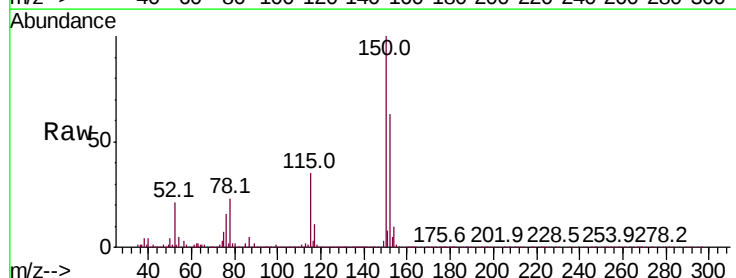
Tgt Ion:152 Resp: 434712

Ion Ratio Lower Upper

152 100

115 55.6 38.4 115.1

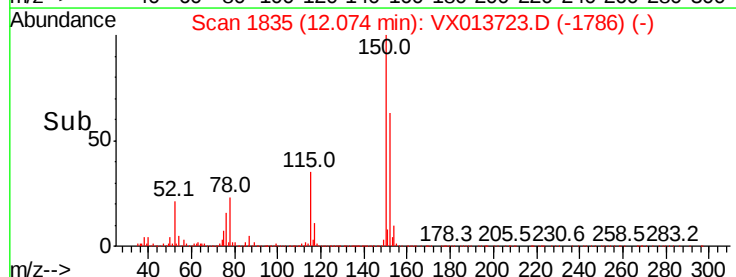
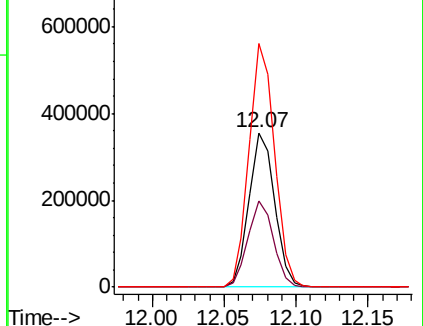
150 158.1 0.0 346.8

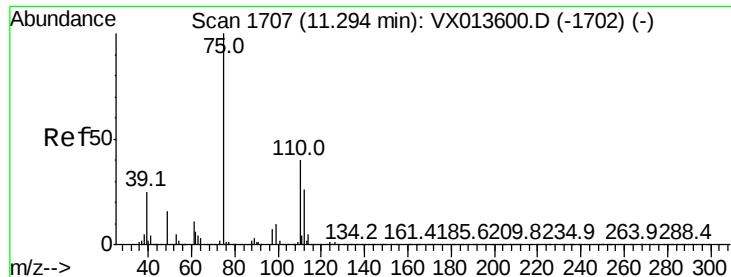


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 20.319 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.16 min

Lab File: VX013723.D

Acq: 03 Dec 2019 14:38

Instrument :

MSVOA_X

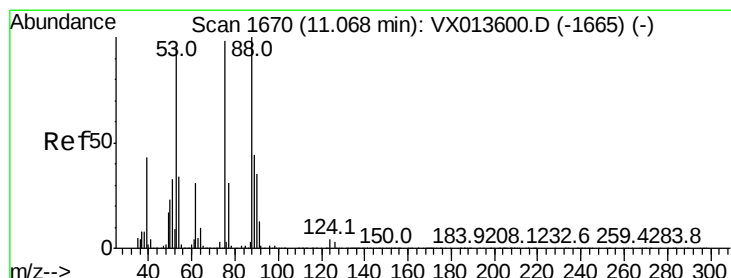
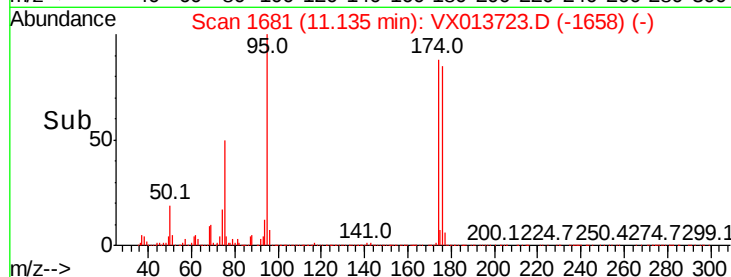
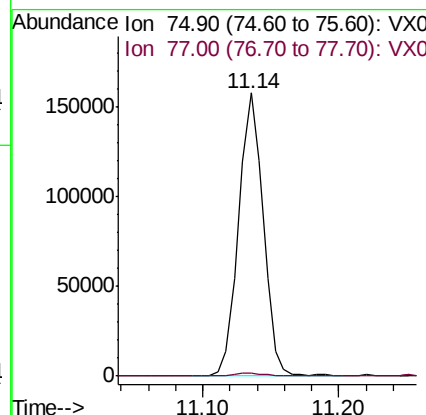
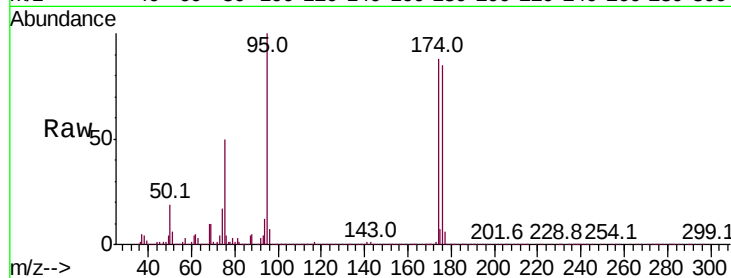
ClientSampleId :

Tot Ion: 75 Resp: 198666

Ion Ratio Lower Upper

75 100

77 1.3 19.1 57.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 55.589 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.07 min

Lab File: VX013723.D

Acq: 03 Dec 2019 14:38

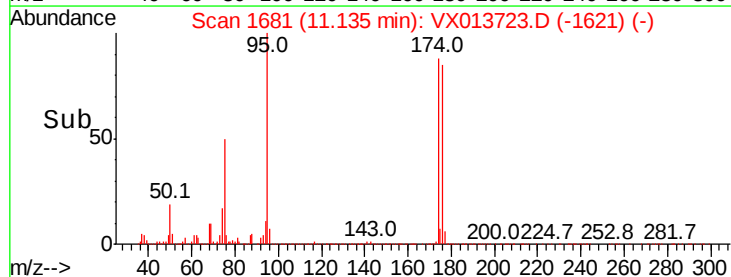
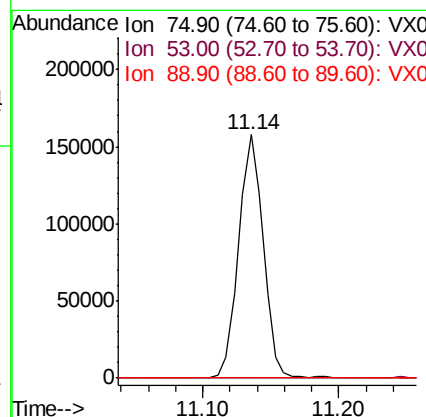
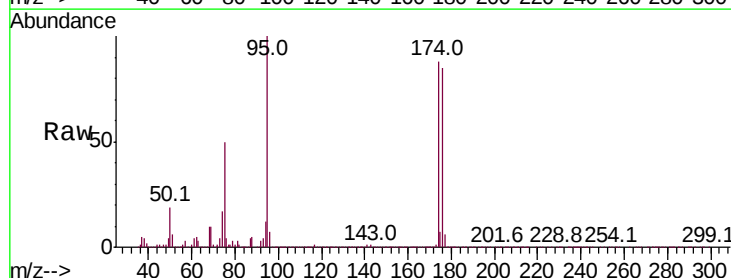
Tgt Ion: 75 Resp: 198666

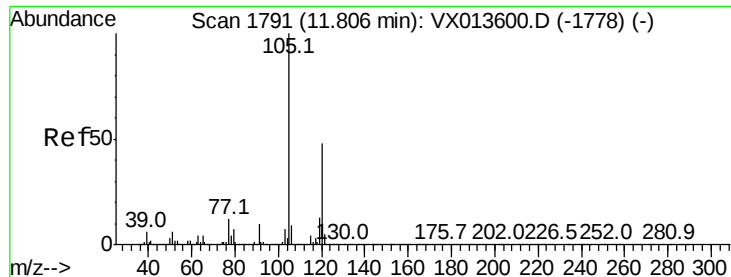
Ion Ratio Lower Upper

75 100

53 0.0 78.2 117.2#

89 0.0 35.4 53.2#





#84

1,2,4-Trimethylbenzene

Concen: 0.417 ug/l

RT: 11.81 min Scan# 1791

Delta R.T. 0.00 min

Lab File: VX013723.D

Acq: 03 Dec 2019 14:38

Instrument :

MSVOA_X

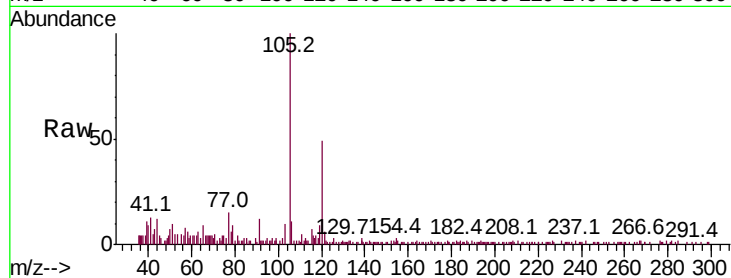
ClientSampleId :

Tot Ion:105 Resp: 10577

Ion Ratio Lower Upper

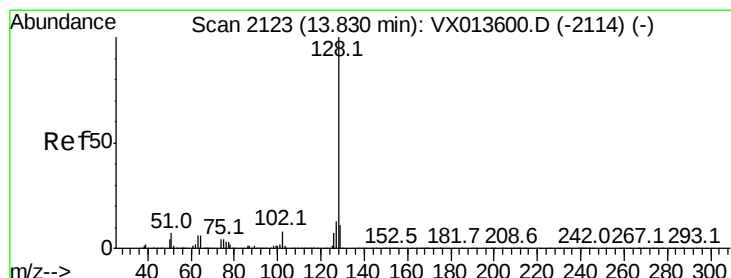
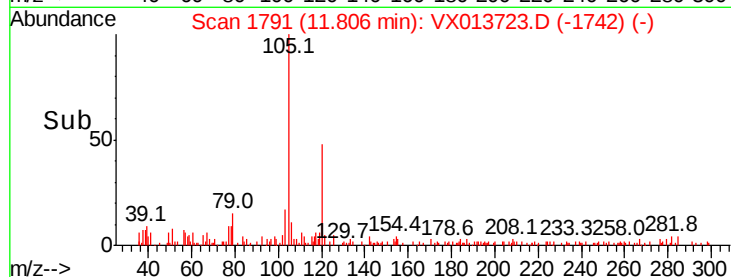
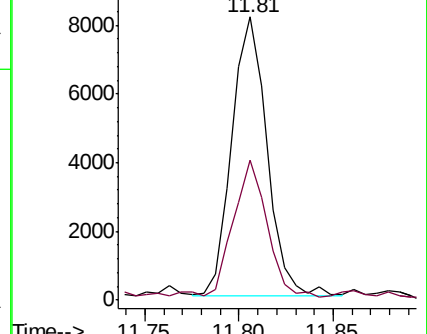
105 100

120 46.1 23.1 69.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#95

Naphthalene

Concen: 16.072 ug/l

RT: 13.83 min Scan# 2123

Delta R.T. 0.00 min

Lab File: VX013723.D

Acq: 03 Dec 2019 14:38

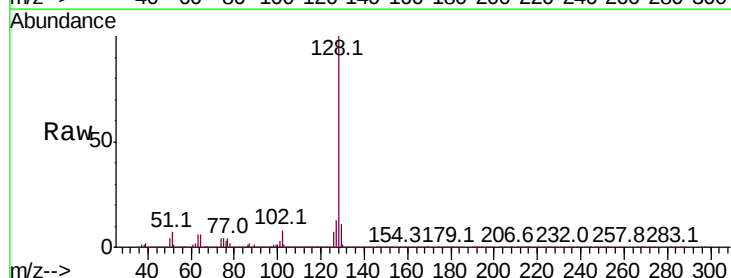
Tgt Ion:128 Resp: 473290

Ion Ratio Lower Upper

128 100

127 12.8 10.3 15.5

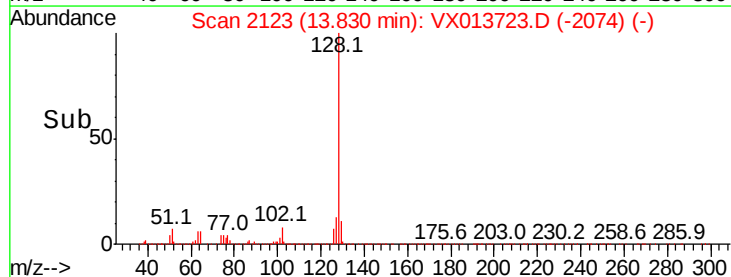
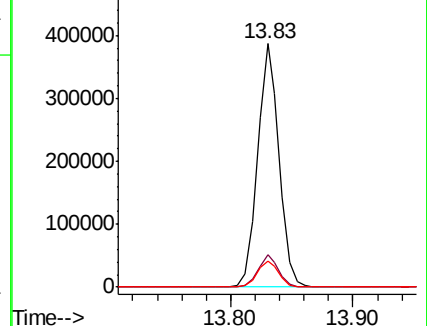
129 10.8 8.7 13.1

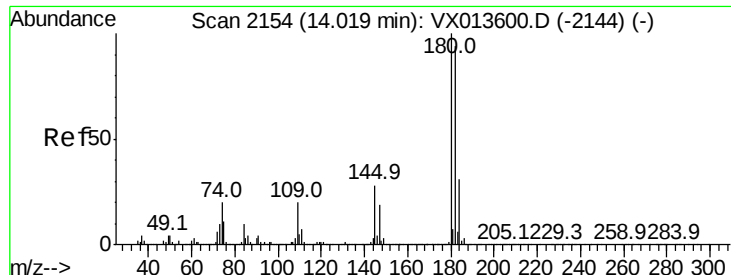


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

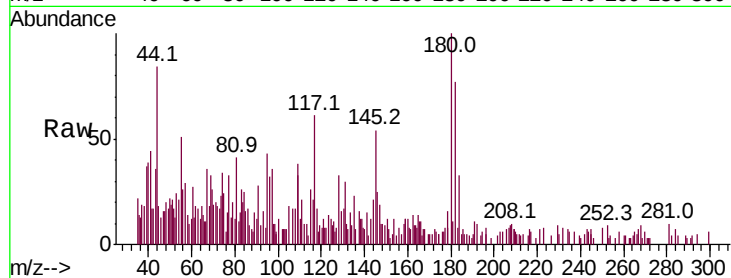




#96
 1,2,3-Trichlorobenzene
 Concen: 0.310 ug/l
 RT: 14.02 min Scan# 2154
 Delta R.T. 0.00 min
 Lab File: VX013723.D
 Acq: 03 Dec 2019 14:38

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion:180 Resp: 3038
 Ion Ratio Lower Upper
 180 100
 182 73.8 47.6 142.8
 145 40.1 15.0 45.0



Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.90 (144.60 to 145.60): V

