

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX020720\
 Data File : VX014869.D
 Acq On : 07 Feb 2020 14:28
 Operator : JC/SP
 Sample : L1440-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Feb 07 22:12:24 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X011520W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Jan 15 12:41:12 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.01	128	70002	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	378051	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.10	117	339014	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.05	65	153455	31.19	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	103.97%
60) 4-Bromofluorobenzene	11.14	95	155169	28.60	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	95.33%
63) Toluene-d8	8.71	98	434401	28.37	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	94.57%

Target Compounds

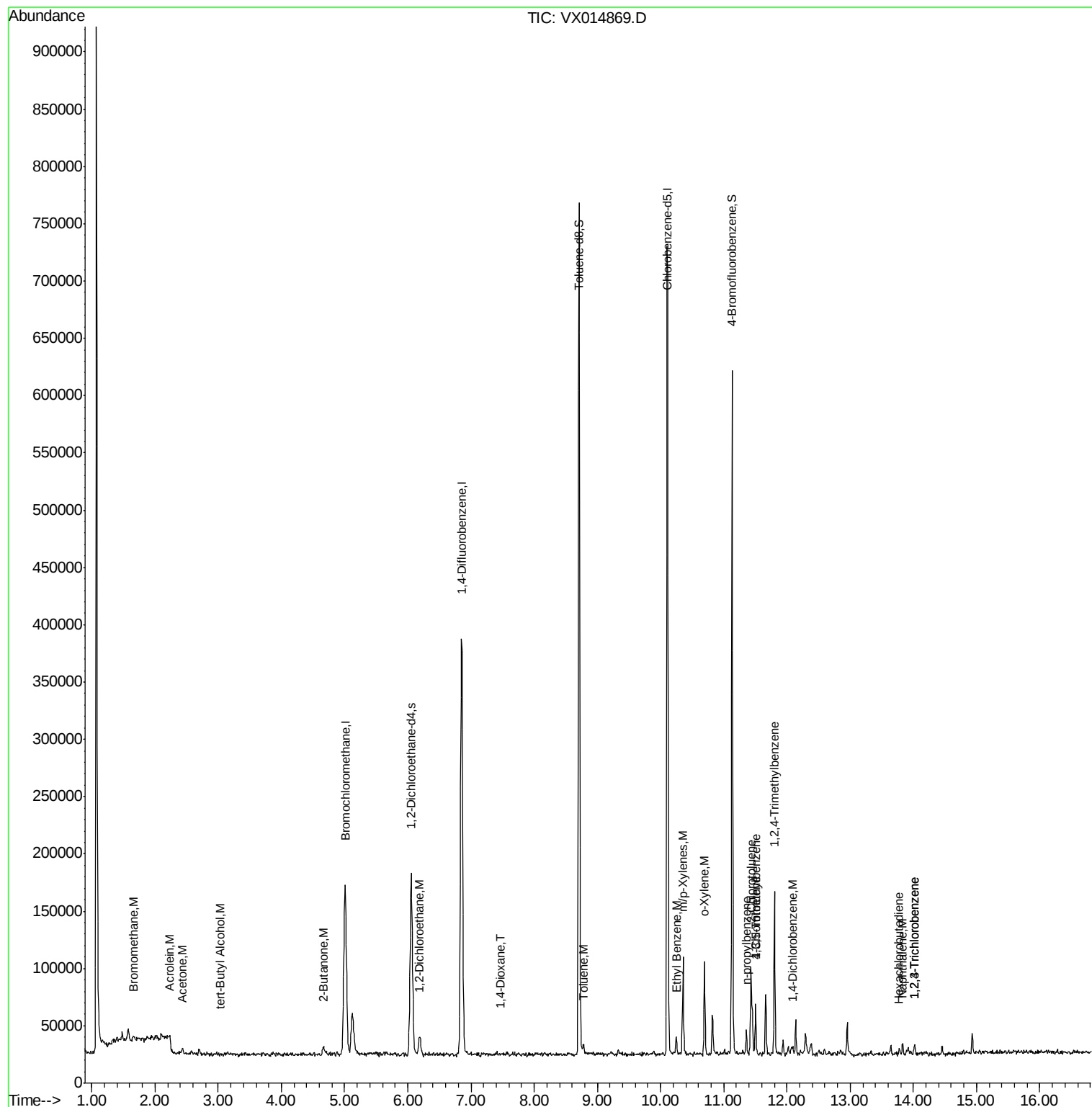
					Ovalue
5) Bromomethane	1.66	94	1601	0.431 ug/l	89
13) Acrolein	2.22	56	320	0.435 ug/l	88
15) Acetone	2.43	58	2183	2.718 ug/l	91
23) tert-Butyl Alcohol	3.03	59	229	0.231 ug/l #	1
30) 2-Butanone	4.66	43	12672	3.608 ug/l	99
36) 1,2-Dichloroethane	6.18	62	20155	3.380 ug/l #	84
45) 1,4-Dioxane	7.47	88	455	4.435 ug/l	99
62) Toluene	8.78	91	6103	0.339 ug/l	97
66) Ethyl Benzene	10.25	91	10376	0.530 ug/l	95
67) m/p-Xylenes	10.35	106	21774	2.902 ug/l	99
68) o-Xylene	10.70	106	18944	2.592 ug/l	99
74) n-propylbenzene	11.35	91	12253	0.560 ug/l	93
75) 2-Chlorotoluene	11.43	91	7809	0.596 ug/l	49
76) 1,3,5-Trimethylbenzene	11.50	105	18296	1.147 ug/l	98
78) 4-Chlorotoluene	11.51	91	4505	0.303 ug/l	80
80) 1,2,4-Trimethylbenzene	11.81	105	64407	4.048 ug/l	97
84) 1,4-Dichlorobenzene	12.09	146	2332	0.265 ug/l	92
89) 1,2,4-Trichlorobenzene	14.02	180	1993	0.338 ug/l	89
90) Hexachlorobutadiene	13.78	225	901	0.306 ug/l	86
91) Naphthalene	13.83	128	6919	0.388 ug/l #	93
92) 1,2,3-Trichlorobenzene	14.02	180	1993	0.332 ug/l	89

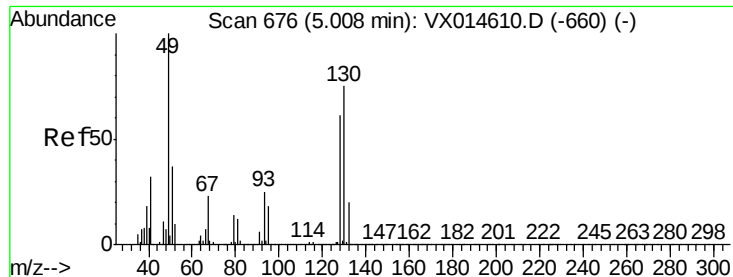
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA X\METHOD\624X011520W.M
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#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 5.01 min Scan# 676

Delta R.T. 0.01 min

Lab File: VX014869.D

Acq: 07 Feb 2020 14:28

Instrument :

MSVOA_X

ClientSampleId :

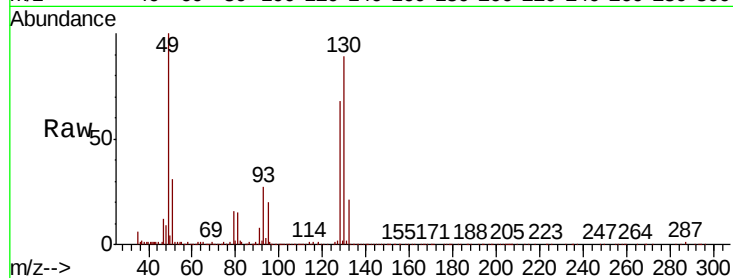
Tot Ion:128 Resp: 70002

Ion Ratio Lower Upper

128 100

49 146.0 0.0 405.0

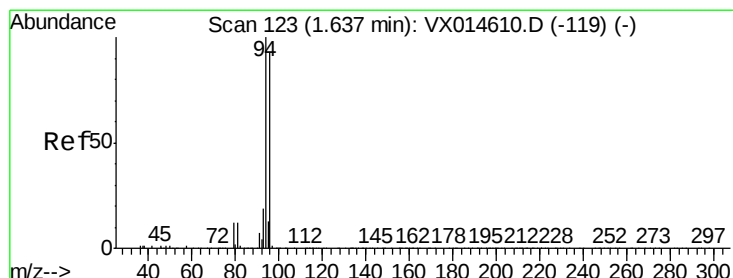
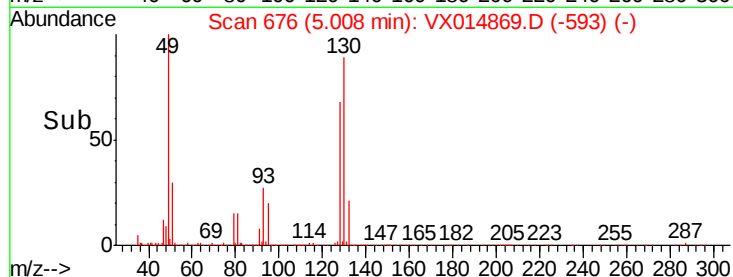
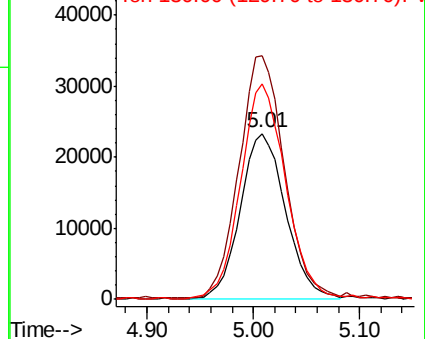
130 128.7 0.0 321.5



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VX0

Ion 130.00 (129.70 to 130.70): V



#5

Bromomethane

Concen: 0.431 ug/l

RT: 1.66 min Scan# 127

Delta R.T. 0.03 min

Lab File: VX014869.D

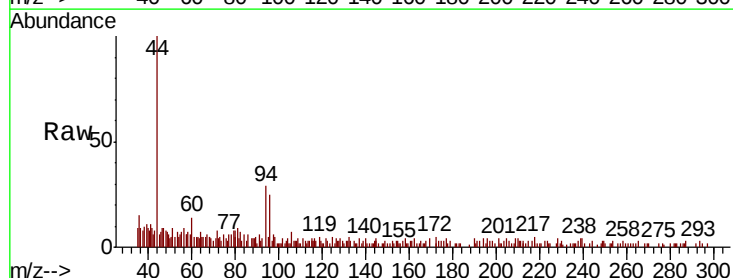
Acq: 07 Feb 2020 14:28

Tgt Ion: 94 Resp: 1601

Ion Ratio Lower Upper

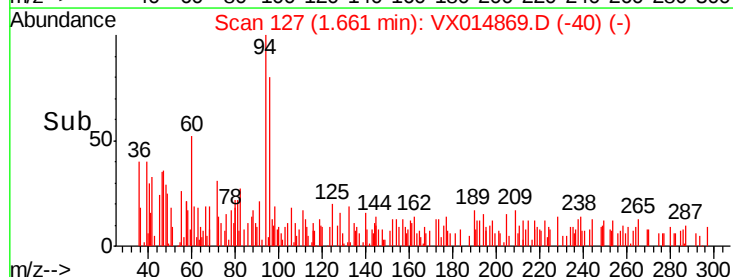
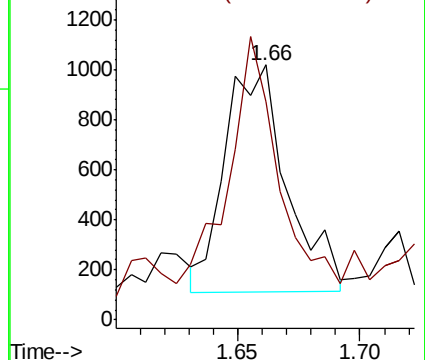
94 100

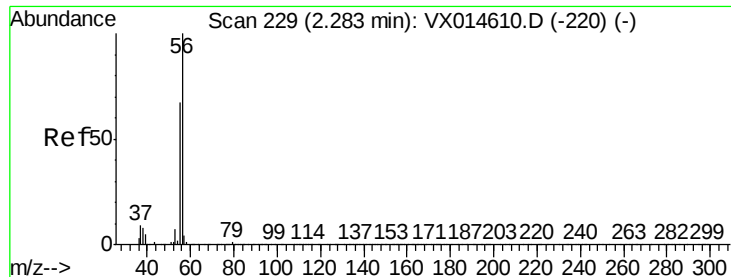
96 82.4 74.4 111.6



Abundance Ion 94.00 (93.70 to 94.70): VX0

Ion 96.00 (95.70 to 96.70): VX0





#13

Acrolein

Concen: 0.435 ug/l

RT: 2.22 min Scan# 219

Delta R.T. -0.06 min

Lab File: VX014869.D

Acq: 07 Feb 2020 14:28

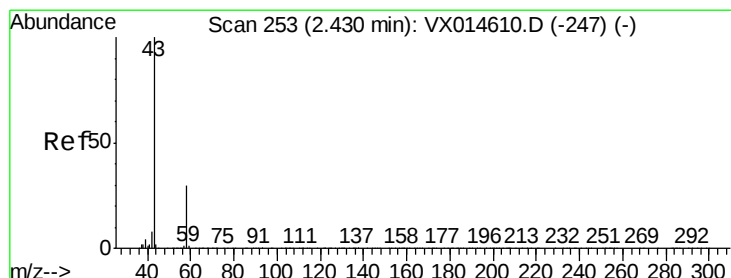
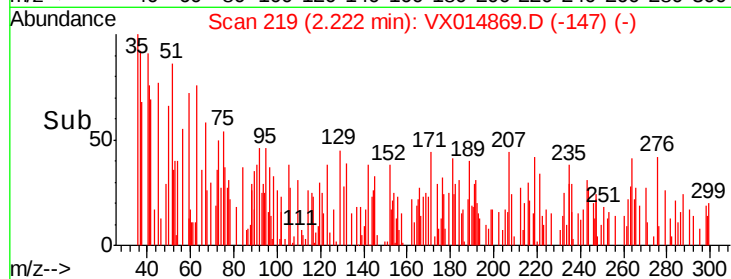
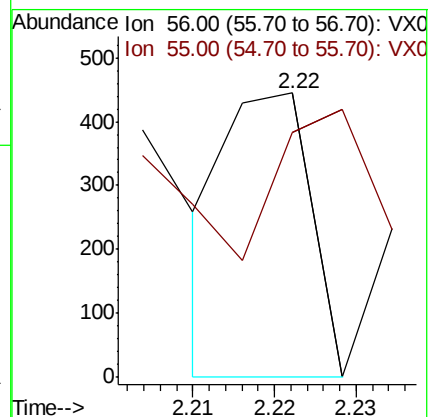
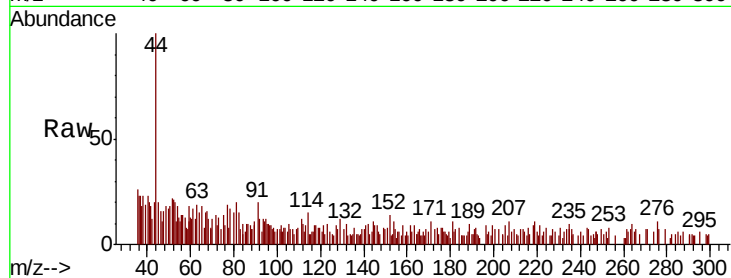
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 56 Resp: 320

Ion Ratio Lower Upper

56 100

55 58.8 54.9 82.3



#15

Acetone

Concen: 2.718 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.01 min

Lab File: VX014869.D

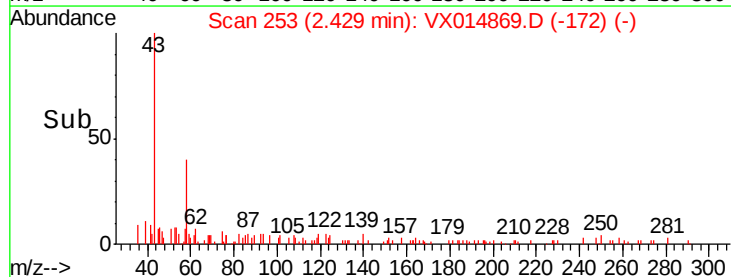
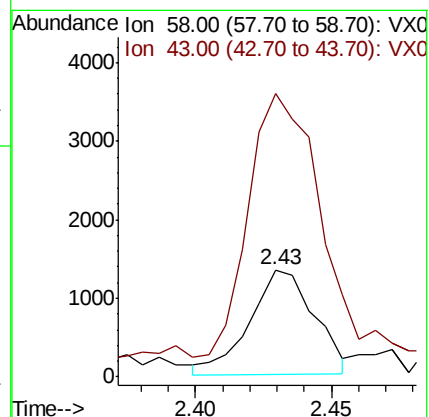
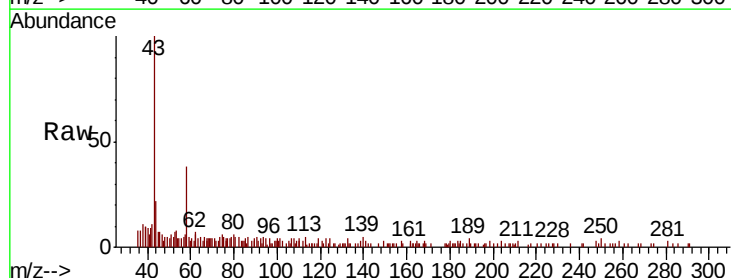
Acq: 07 Feb 2020 14:28

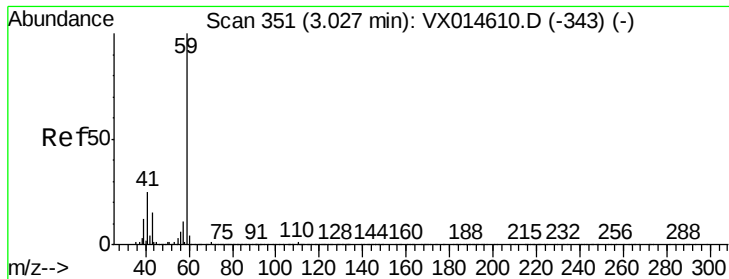
Tgt Ion: 58 Resp: 2183

Ion Ratio Lower Upper

58 100

43 277.7 236.3 354.5



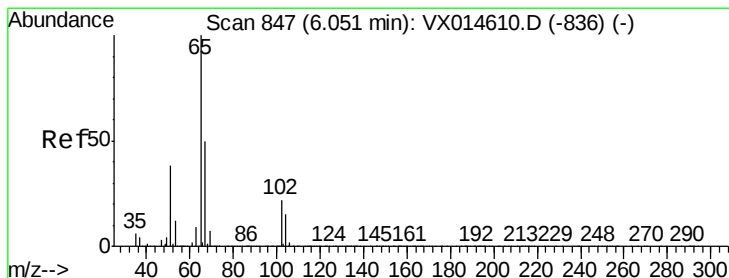
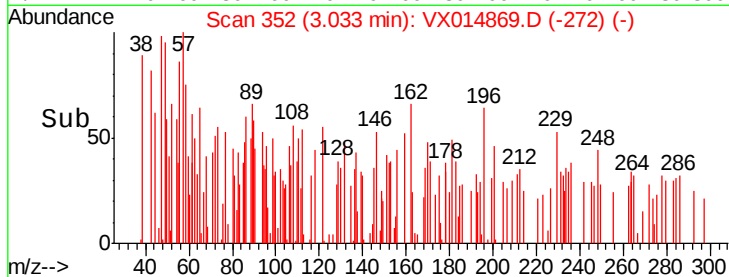
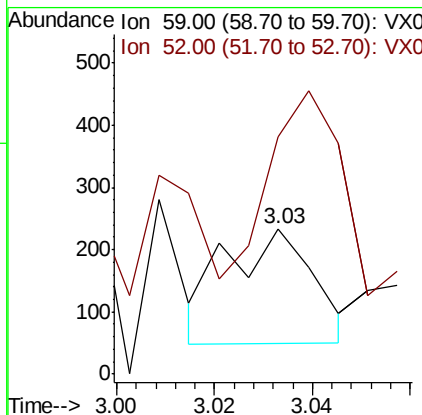
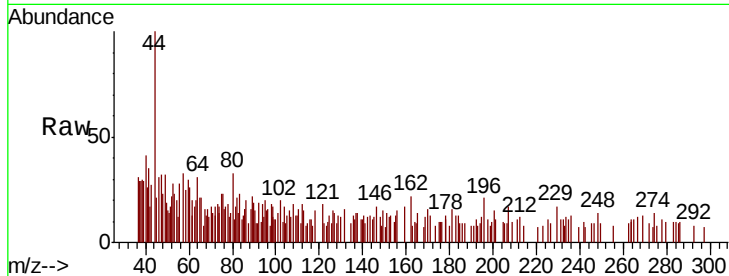


#23

tert-Butyl Alcohol
 Concen: 0.231 ug/l
 RT: 3.03 min Scan# 352
 Delta R.T. -0.01 min
 Lab File: VX014869.D
 Acq: 07 Feb 2020 14:28

Instrument :
 MSVOA_X
 ClientSampled :

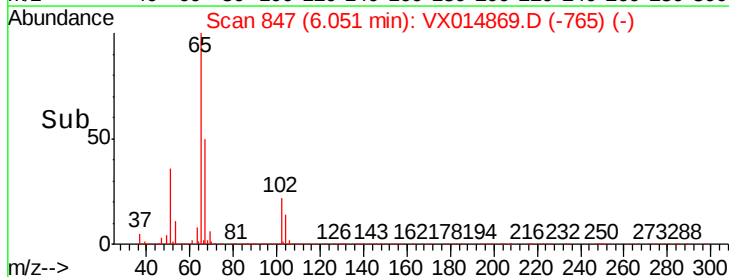
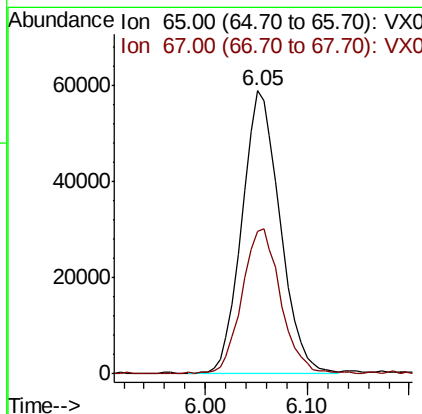
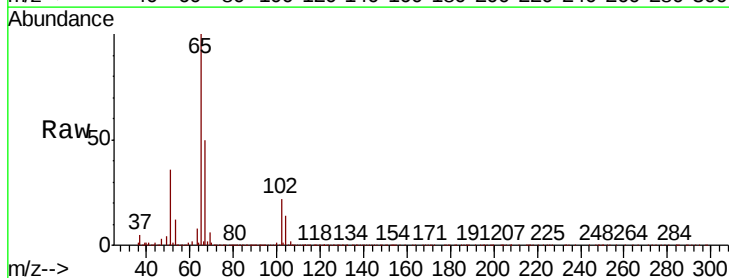
Tot Ion: 59 Resp: 229
 Ion Ratio Lower Upper
 59 100
 52 189.1 0.2 0.2#

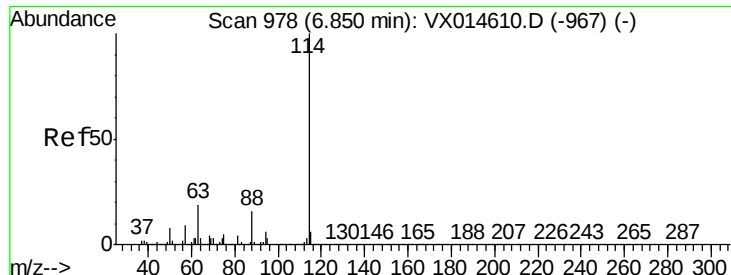


#27

1,2-Dichloroethane-d4
 Concen: 31.188 ug/l
 RT: 6.05 min Scan# 847
 Delta R.T. -0.00 min
 Lab File: VX014869.D
 Acq: 07 Feb 2020 14:28

Tgt Ion: 65 Resp: 153455
 Ion Ratio Lower Upper
 65 100
 67 51.0 43.1 64.7

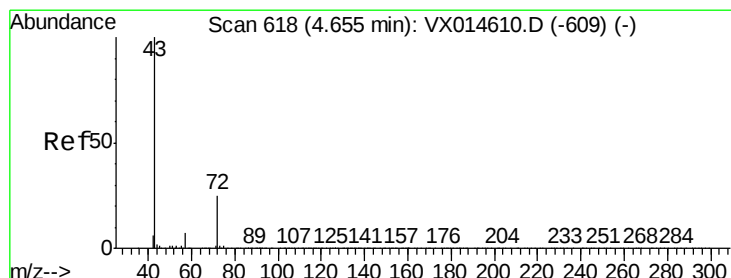
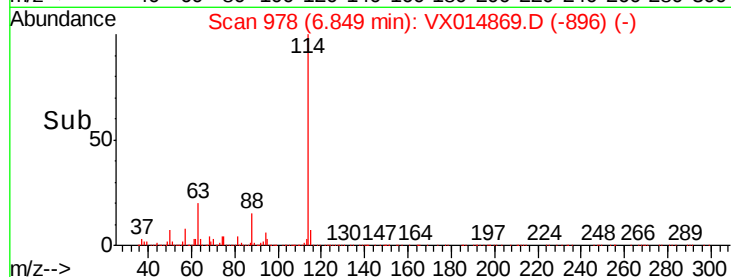
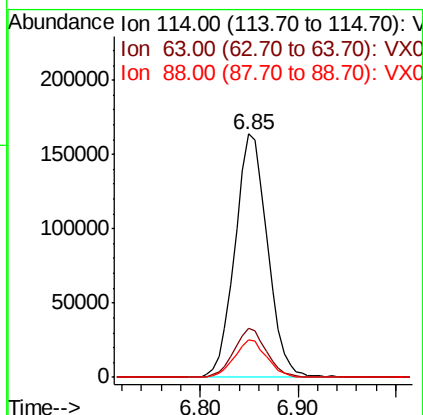
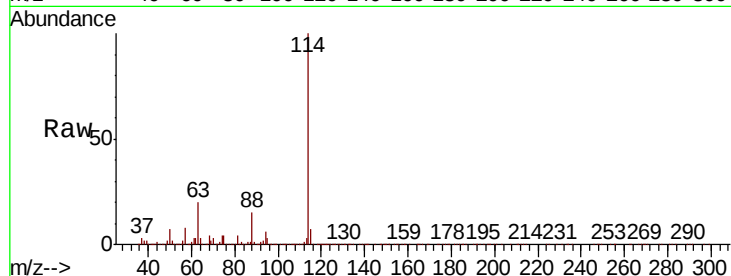




#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 6.85 min Scan# 978
Delta R.T. 0.00 min
Lab File: VX014869.D
Acq: 07 Feb 2020 14:28

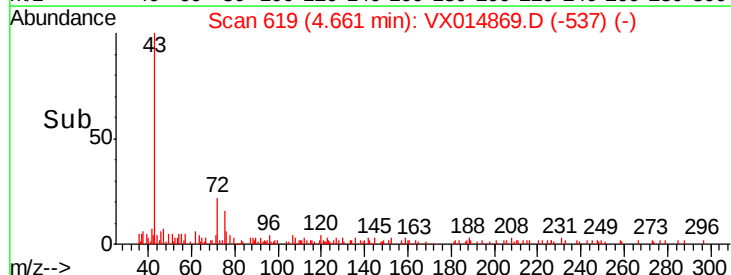
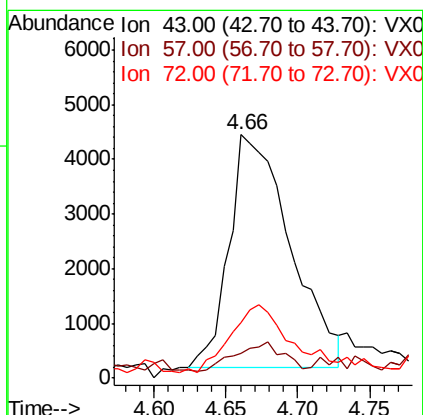
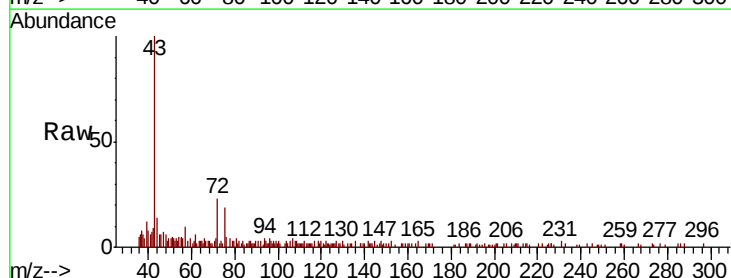
Instrument :
MSVOA_X
ClientSampleId :

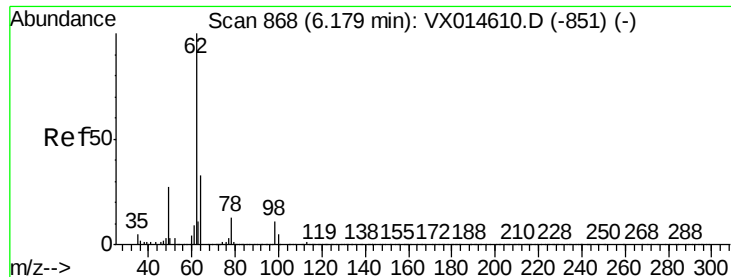
Tot Ion:114 Resp: 378051
Ion Ratio Lower Upper
114 100
63 19.8 16.1 24.1
88 15.3 12.5 18.7



#30
2-Butanone
Concen: 3.608 ug/l
RT: 4.66 min Scan# 619
Delta R.T. 0.00 min
Lab File: VX014869.D
Acq: 07 Feb 2020 14:28

Tgt Ion: 43 Resp: 12672
Ion Ratio Lower Upper
43 100
57 9.2 6.2 9.2
72 25.3 20.3 30.5





#36

1,2-Dichloroethane

Concen: 3.380 ug/l

RT: 6.18 min Scan# 869

Delta R.T. 0.01 min

Lab File: VX014869.D

Acq: 07 Feb 2020 14:28

Instrument :

MSVOA_X

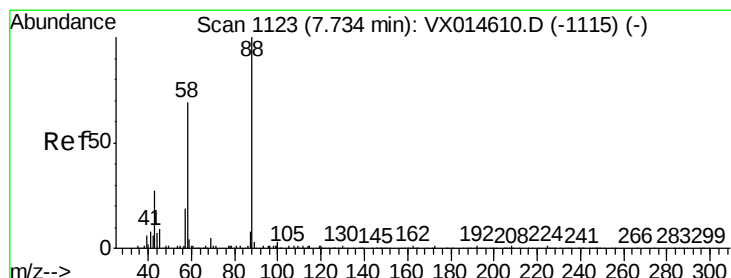
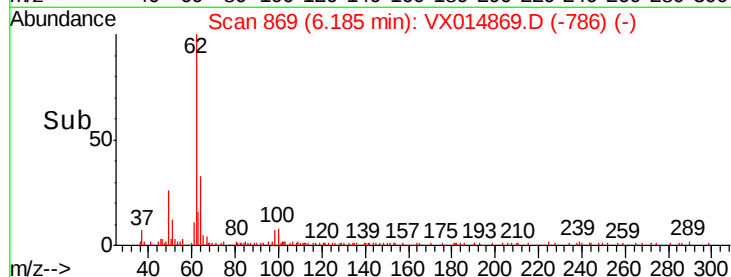
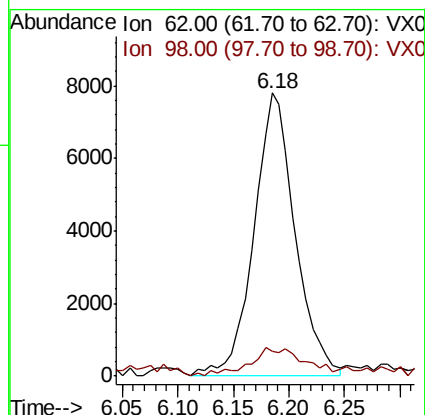
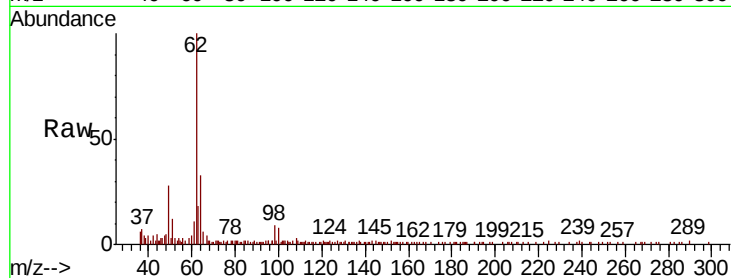
ClientSampleId :

Tot Ion: 62 Resp: 20155

Ion Ratio Lower Upper

62 100

98 4.3 8.4 12.6#



#45

1,4-Dioxane

Concen: 4.435 ug/l

RT: 7.47 min Scan# 1079

Delta R.T. -0.27 min

Lab File: VX014869.D

Acq: 07 Feb 2020 14:28

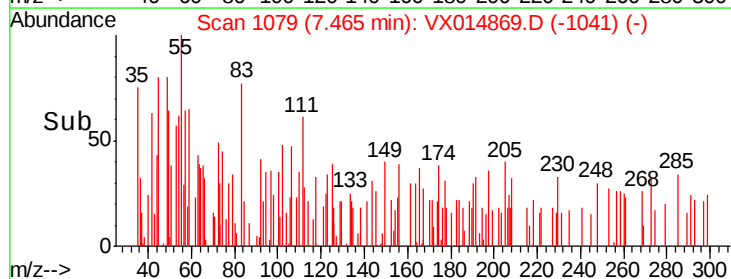
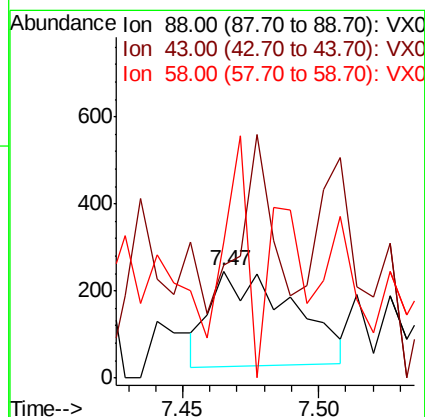
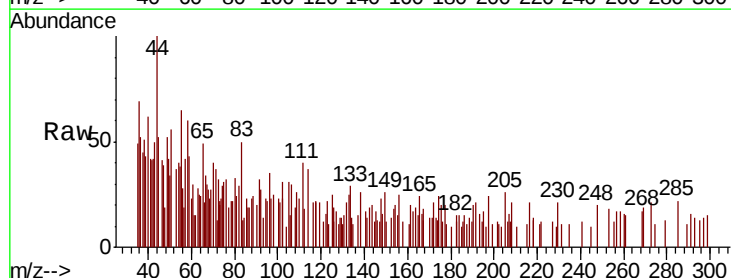
Tgt Ion: 88 Resp: 455

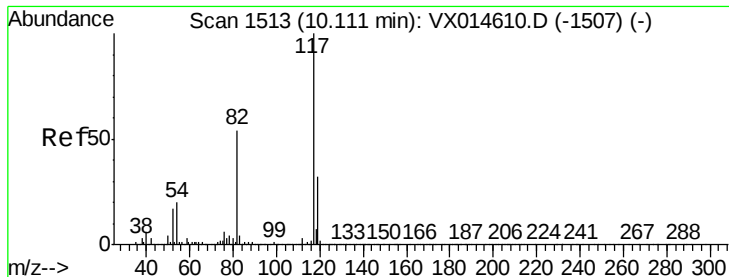
Ion Ratio Lower Upper

88 100

43 31.9 25.4 38.2

58 69.9 56.5 84.7

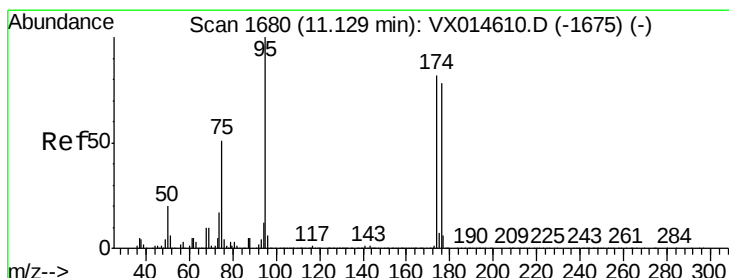
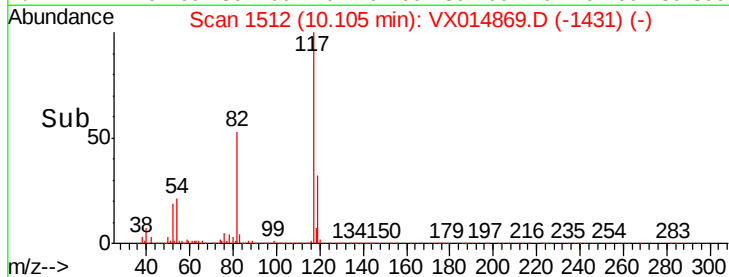
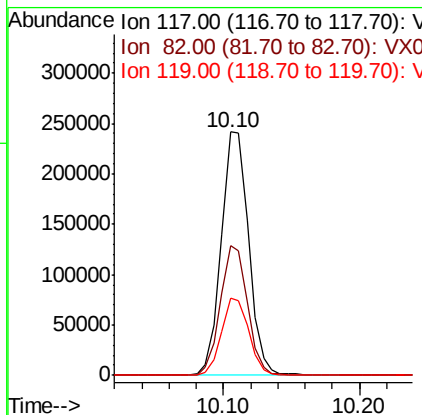
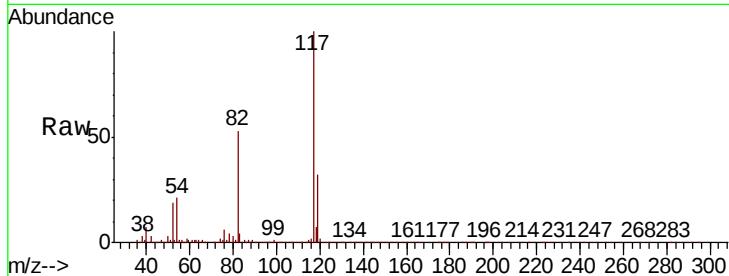




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.10 min Scan# 1512
Delta R.T. -0.01 min
Lab File: VX014869.D
Acq: 07 Feb 2020 14:28

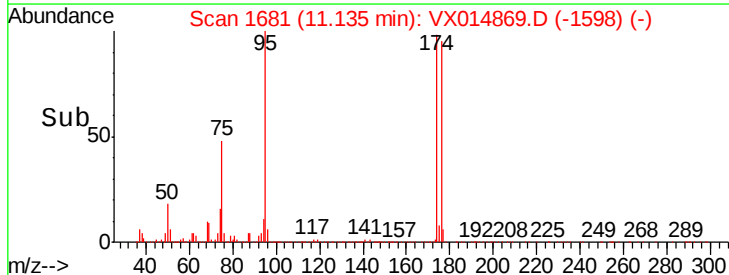
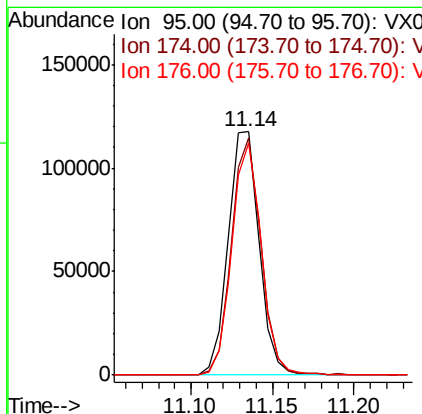
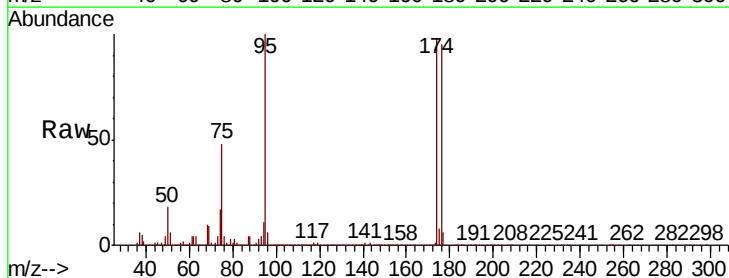
Instrument :
MSVOA_X
ClientSampleId :

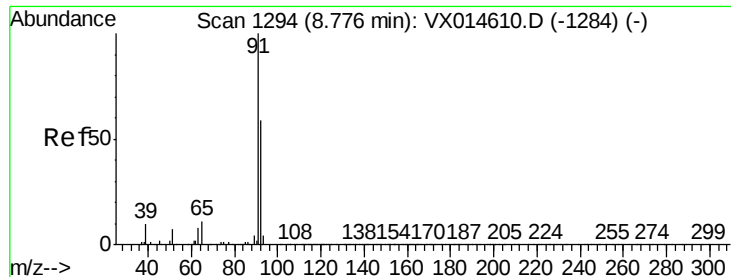
Tot Ion:117 Resp: 339014
Ion Ratio Lower Upper
117 100
82 52.5 43.8 65.6
119 31.6 25.8 38.6



#60
4-Bromofluorobenzene
Concen: 28.603 ug/l
RT: 11.14 min Scan# 1681
Delta R.T. 0.01 min
Lab File: VX014869.D
Acq: 07 Feb 2020 14:28

Tgt Ion: 95 Resp: 155169
Ion Ratio Lower Upper
95 100
174 92.7 70.2 105.2
176 90.1 68.3 102.5





#62

Toluene

Concen: 0.339 ug/l

RT: 8.78 min Scan# 1294

Delta R.T. -0.01 min

Lab File: VX014869.D

Acq: 07 Feb 2020 14:28

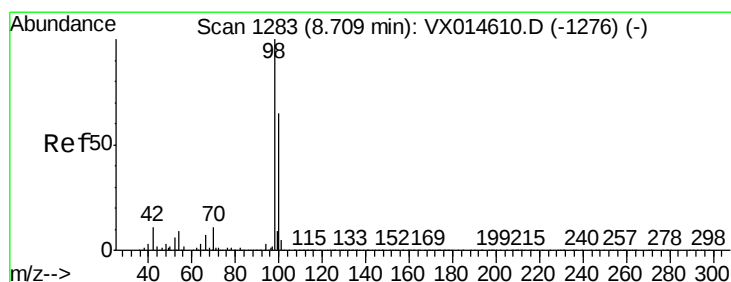
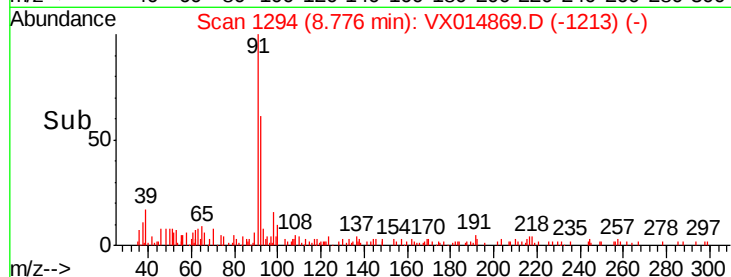
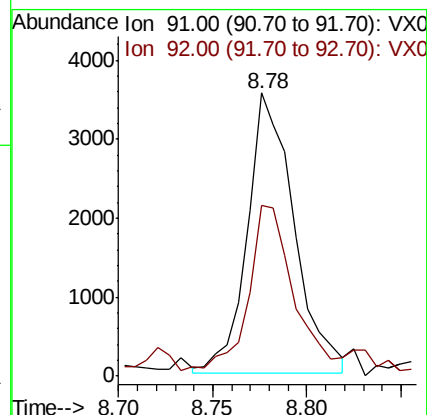
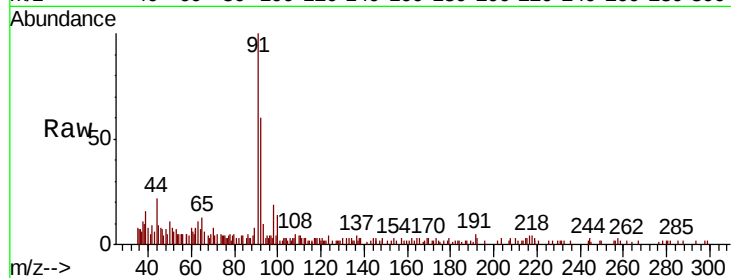
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 91 Resp: 6103

Ion Ratio Lower Upper

91 100

92 55.6 46.4 69.6



#63

Toluene-d8

Concen: 28.368 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX014869.D

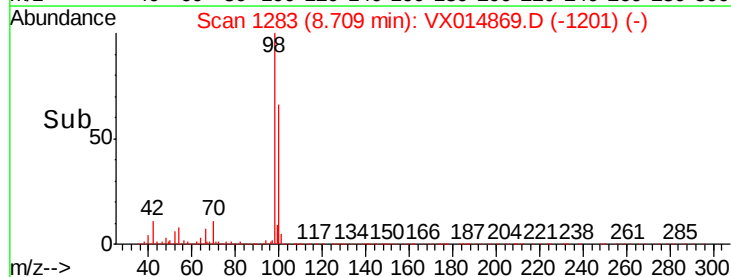
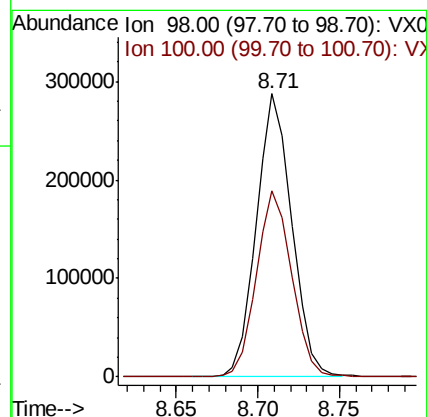
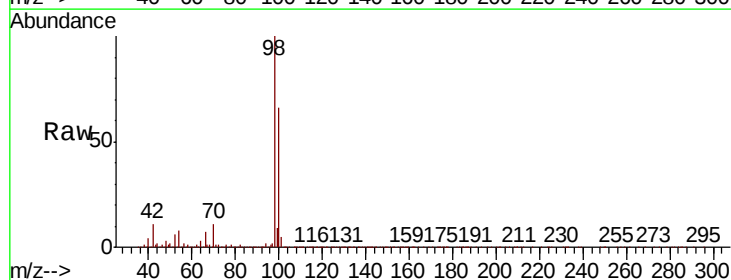
Acq: 07 Feb 2020 14:28

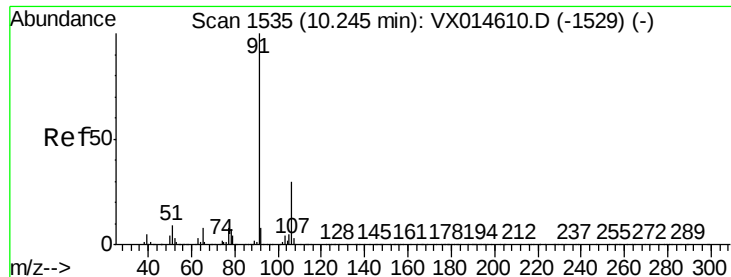
Tgt Ion: 98 Resp: 434401

Ion Ratio Lower Upper

98 100

100 65.9 52.2 78.2





#66

Ethyl Benzene

Concen: 0.530 ug/l

RT: 10.25 min Scan# 1536

Delta R.T. 0.01 min

Lab File: VX014869.D

Acq: 07 Feb 2020 14:28

Instrument :

MSVOA_X

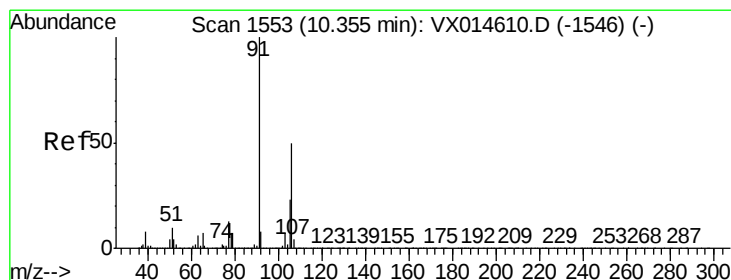
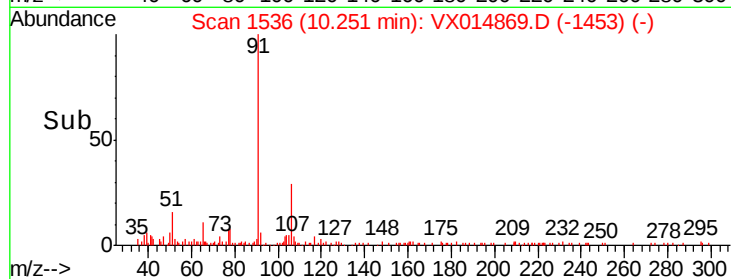
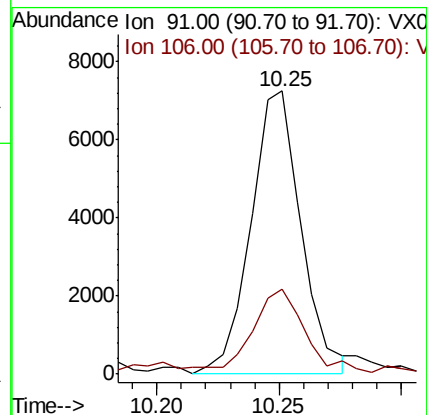
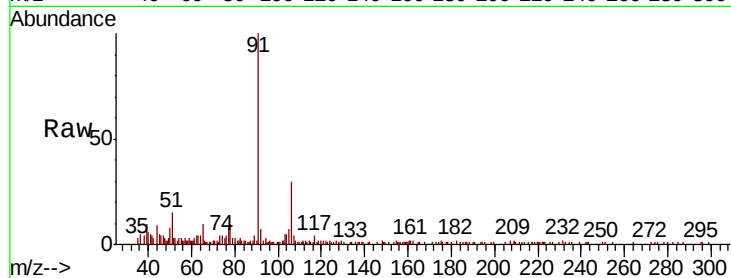
ClientSampleId :

Tot Ion: 91 Resp: 10376

Ion Ratio Lower Upper

91 100

106 27.4 24.2 36.2



#67

m/p-Xylenes

Concen: 2.902 ug/l

RT: 10.35 min Scan# 1553

Delta R.T. 0.00 min

Lab File: VX014869.D

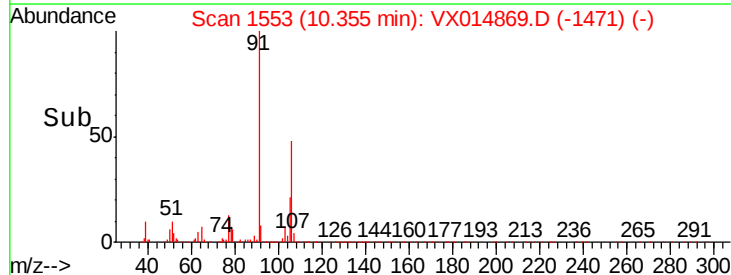
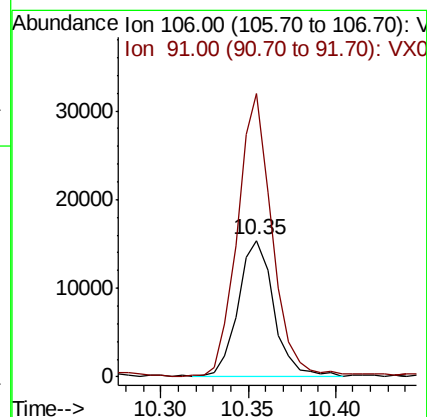
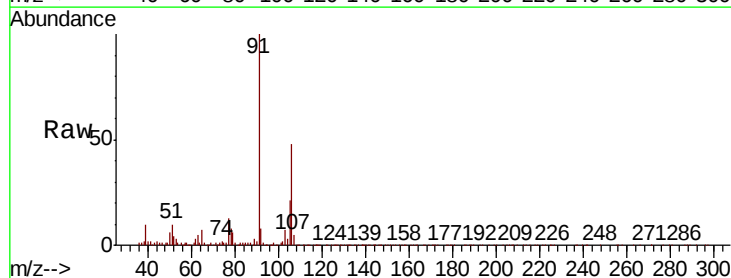
Acq: 07 Feb 2020 14:28

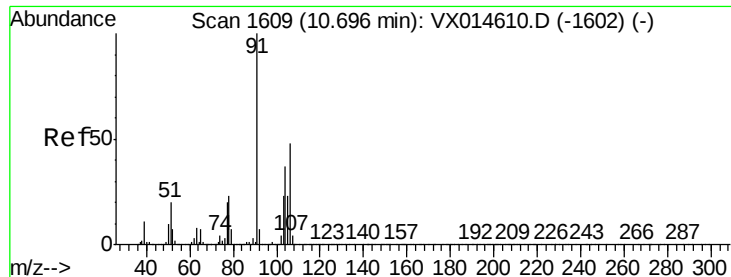
Tgt Ion: 106 Resp: 21774

Ion Ratio Lower Upper

106 100

91 198.3 159.3 238.9

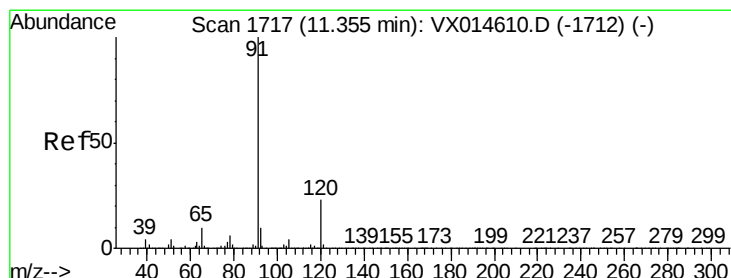
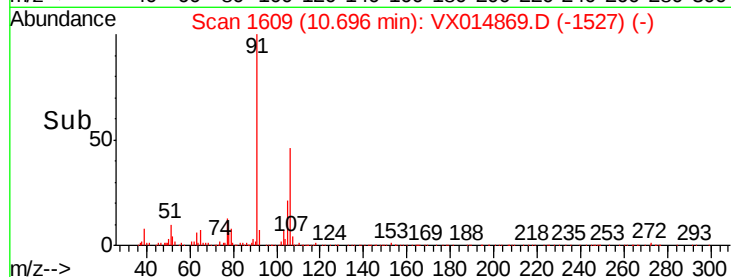
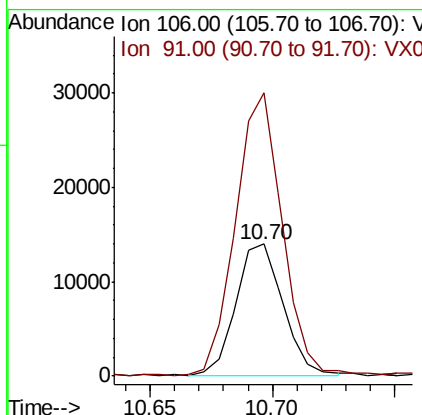
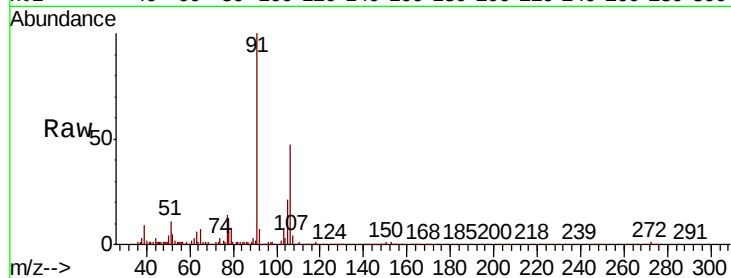




#68
o-Xylene
Concen: 2.592 ug/l
RT: 10.70 min Scan# 1609
Delta R.T. 0.00 min
Lab File: VX014869.D
Acq: 07 Feb 2020 14:28

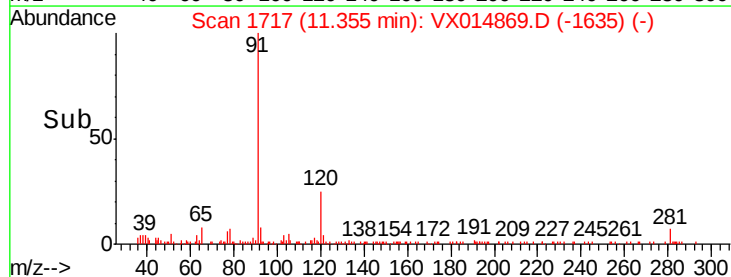
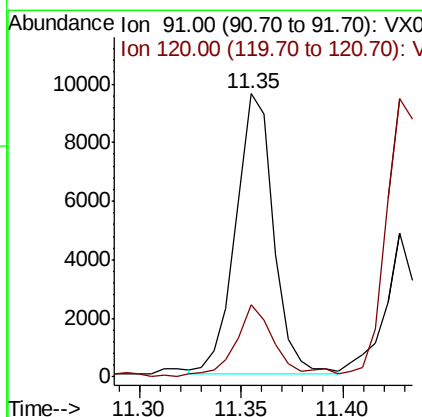
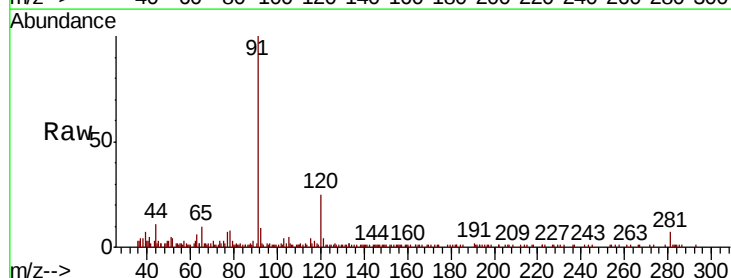
Instrument :
MSVOA_X
ClientSampleId :

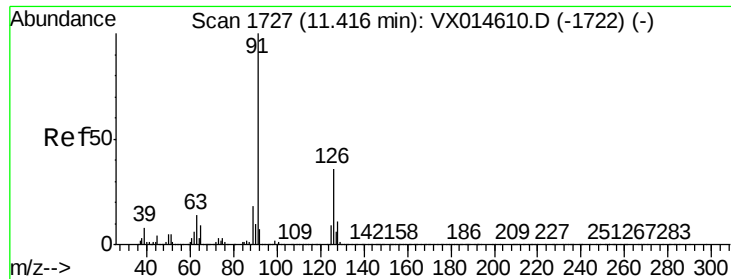
Tot Ion:106 Resp: 18944
Ion Ratio Lower Upper
106 100
91 207.9 104.8 314.6



#74
n-propylbenzene
Concen: 0.560 ug/l
RT: 11.35 min Scan# 1717
Delta R.T. 0.00 min
Lab File: VX014869.D
Acq: 07 Feb 2020 14:28

Tgt Ion: 91 Resp: 12253
Ion Ratio Lower Upper
91 100
120 25.6 0.0 44.8





#75

2-Chlorotoluene

Concen: 0.596 ug/l

RT: 11.43 min Scan# 1729

Delta R.T. 0.01 min

Lab File: VX014869.D

Acq: 07 Feb 2020 14:28

Instrument :

MSVOA_X

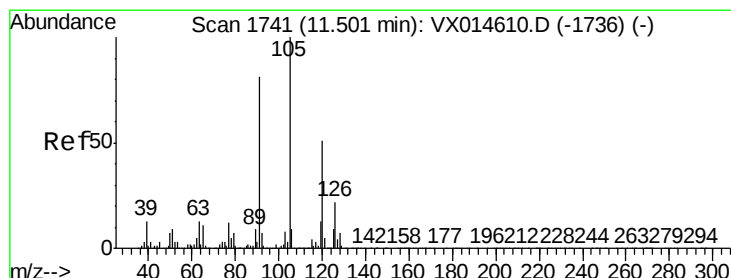
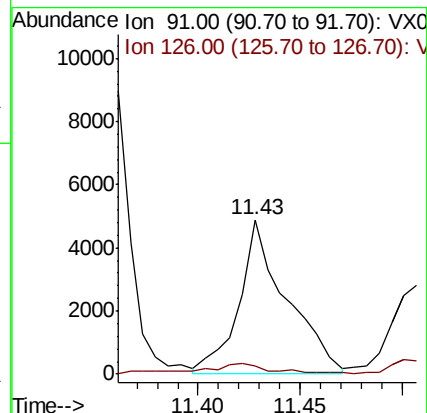
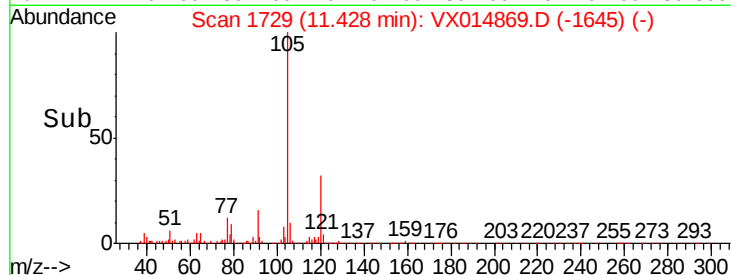
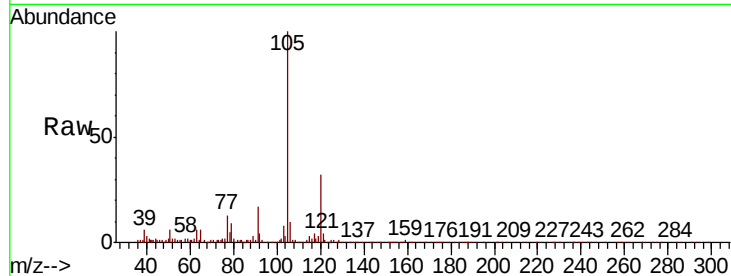
ClientSampleId :

Tot Ion: 91 Resp: 7809

Ion Ratio Lower Upper

91 100

126 5.4 0.0 70.8



#76

1,3,5-Trimethylbenzene

Concen: 1.147 ug/l

RT: 11.50 min Scan# 1741

Delta R.T. 0.00 min

Lab File: VX014869.D

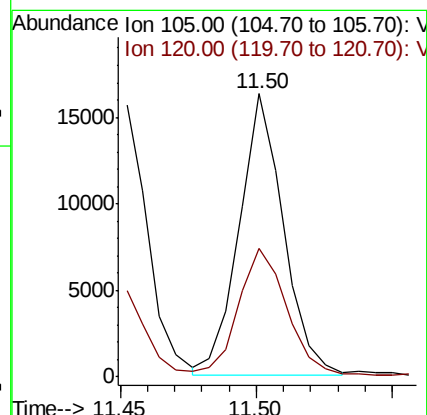
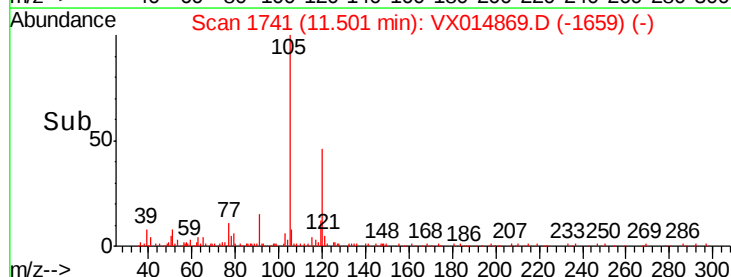
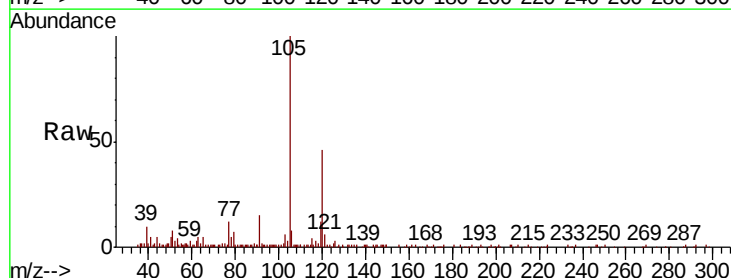
Acq: 07 Feb 2020 14:28

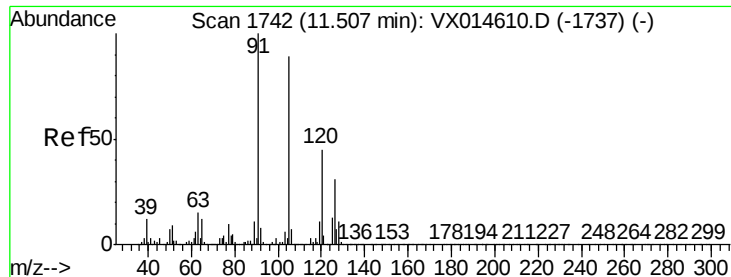
Tgt Ion: 105 Resp: 18296

Ion Ratio Lower Upper

105 100

120 49.2 0.0 100.6





#78

4-Chlorotoluene

Concen: 0.303 ug/l

RT: 11.51 min Scan# 1742

Delta R.T. 0.00 min

Lab File: VX014869.D

Acq: 07 Feb 2020 14:28

Instrument :

MSVOA_X

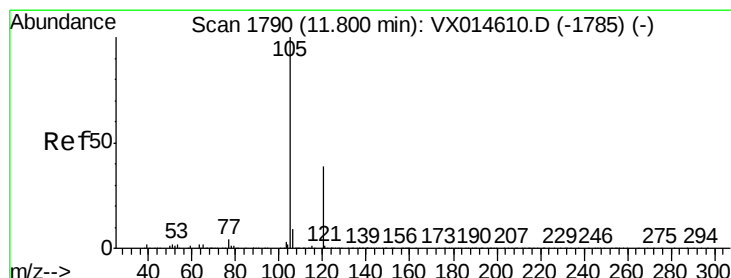
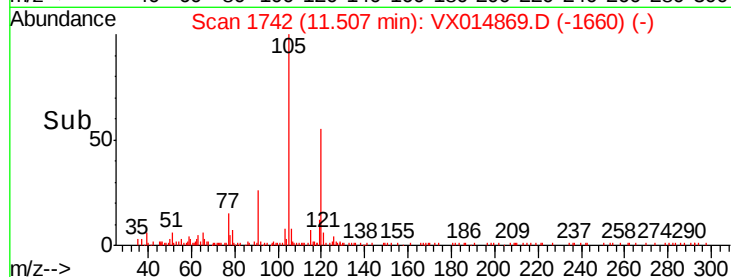
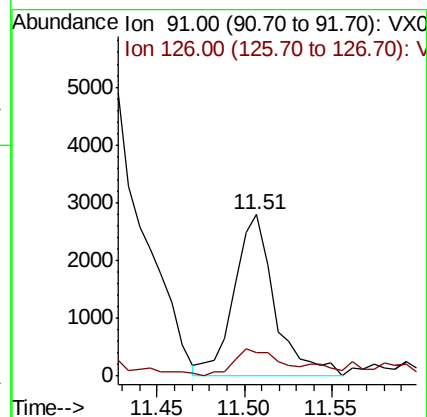
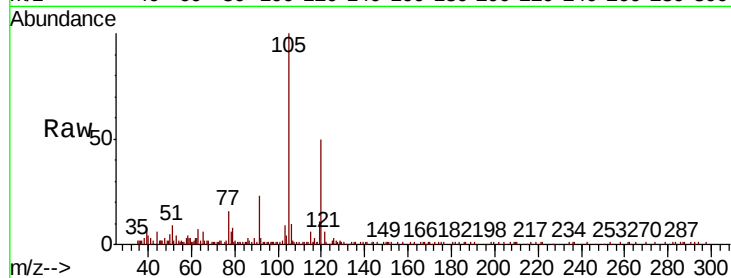
ClientSampled :

Tot Ion: 91 Resp: 4505

Ion Ratio Lower Upper

91 100

126 18.8 0.0 59.6



#80

1,2,4-Trimethylbenzene

Concen: 4.048 ug/l

RT: 11.81 min Scan# 1791

Delta R.T. -0.00 min

Lab File: VX014869.D

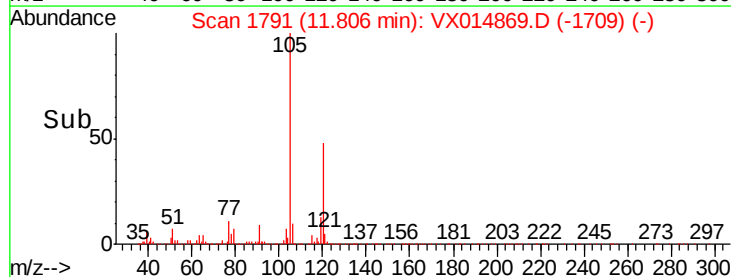
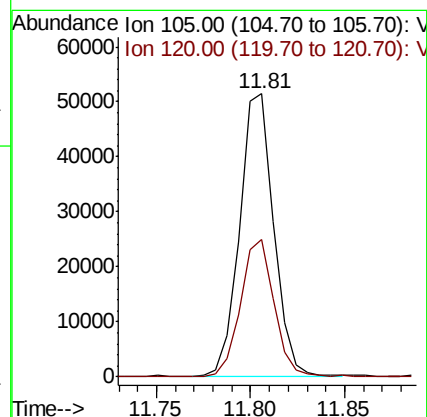
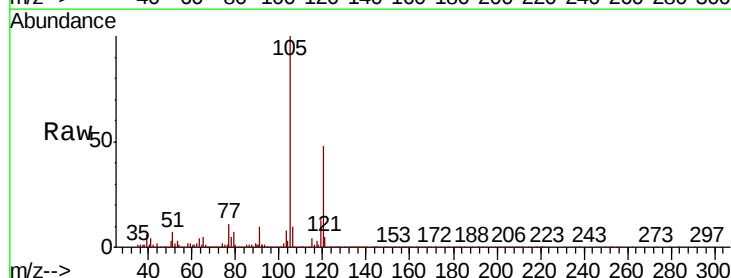
Acq: 07 Feb 2020 14:28

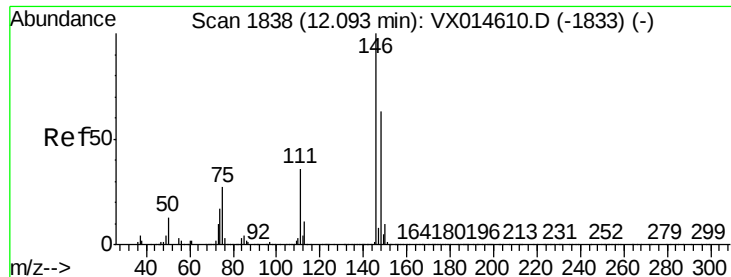
Tgt Ion: 105 Resp: 64407

Ion Ratio Lower Upper

105 100

120 47.7 0.0 92.0

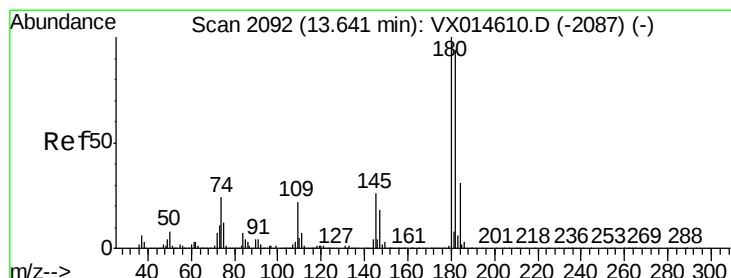
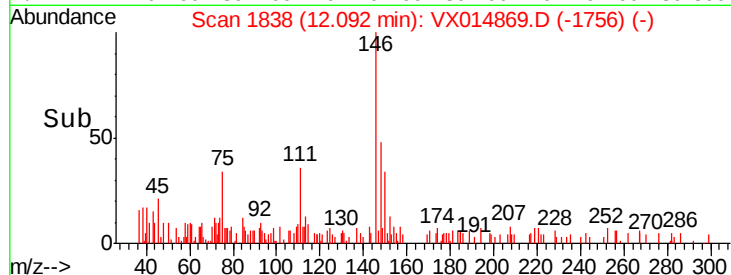
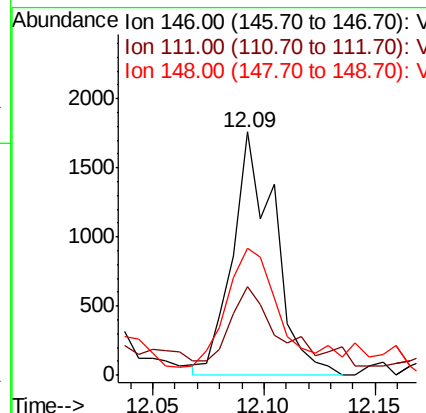
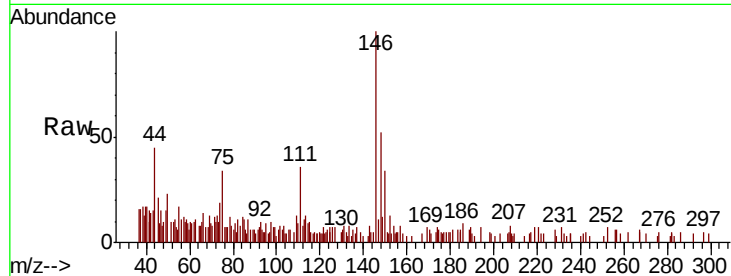




#84
 1,4-Dichlorobenzene
 Concen: 0.265 ug/l
 RT: 12.09 min Scan# 1838
 Delta R.T. -0.00 min
 Lab File: VX014869.D
 Acq: 07 Feb 2020 14:28

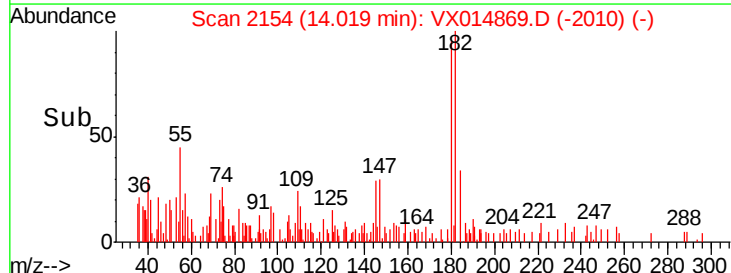
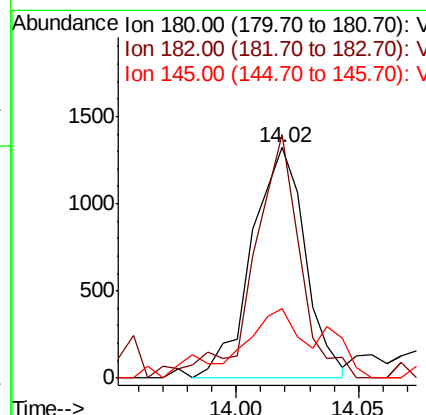
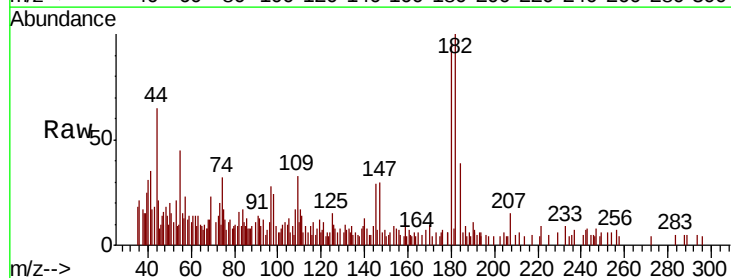
Instrument :
 MSVOA_X
 ClientSampleId :

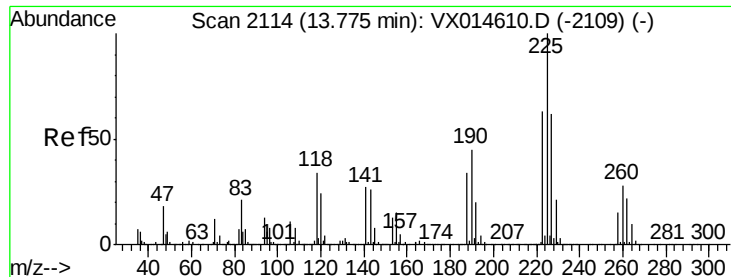
Tot Ion	Ratio	Lower	Upper
146	100		
111	31.5	18.4	55.4
148	58.5	32.0	96.0



#89
 1,2,4-Trichlorobenzene
 Concen: 0.338 ug/l
 RT: 14.02 min Scan# 2154
 Delta R.T. 0.38 min
 Lab File: VX014869.D
 Acq: 07 Feb 2020 14:28

Tgt Ion	Ratio	Lower	Upper
180	100		
182	83.8	76.4	114.6
145	30.3	21.9	32.9





#90

Hexachlorobutadiene

Concen: 0.306 ug/l

RT: 13.78 min Scan# 2115

Delta R.T. 0.01 min

Lab File: VX014869.D

Acq: 07 Feb 2020 14:28

Instrument :

MSVOA_X

ClientSampled :

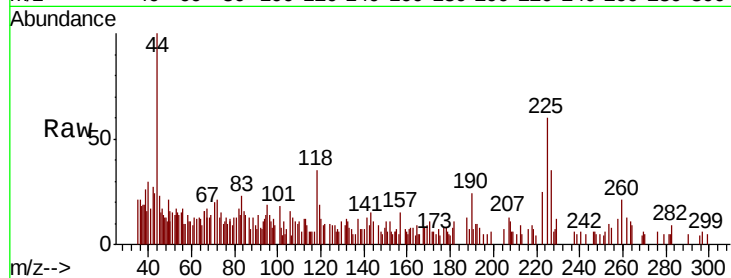
Tot Ion:225 Resp: 901

Ion Ratio Lower Upper

225 100

223 61.9 0.0 127.4

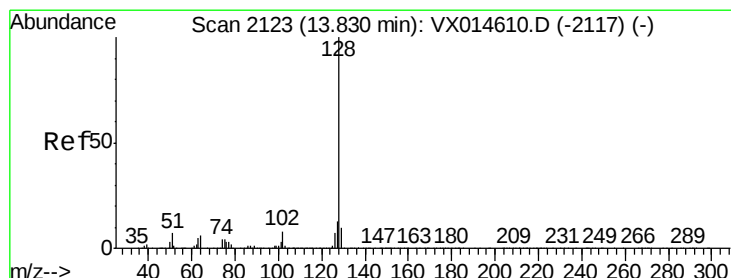
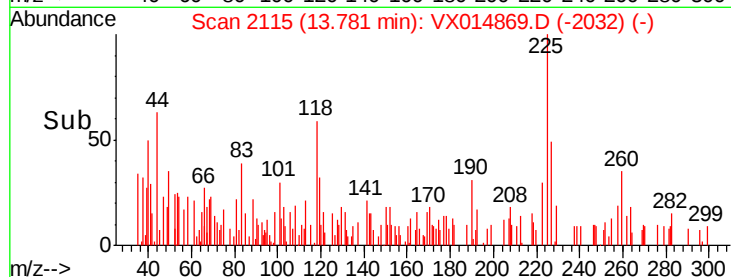
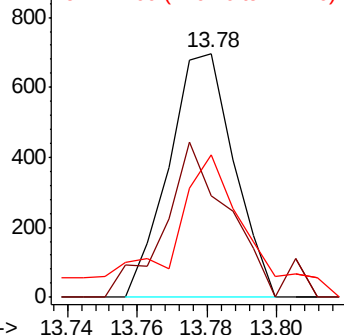
227 40.8 0.0 122.8



Abundance Ion 225.00 (224.70 to 225.70): V

Ion 223.00 (222.70 to 223.70): V

Ion 227.00 (226.70 to 227.70): V



#91

Naphthalene

Concen: 0.388 ug/l

RT: 13.83 min Scan# 2123

Delta R.T. 0.00 min

Lab File: VX014869.D

Acq: 07 Feb 2020 14:28

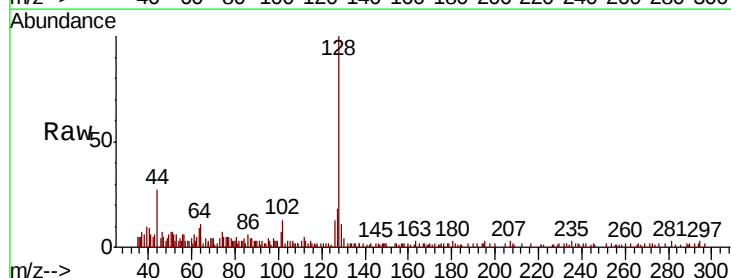
Tgt Ion:128 Resp: 6919

Ion Ratio Lower Upper

128 100

127 15.3 10.4 15.6

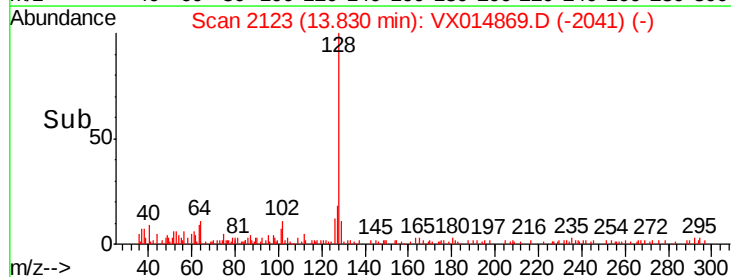
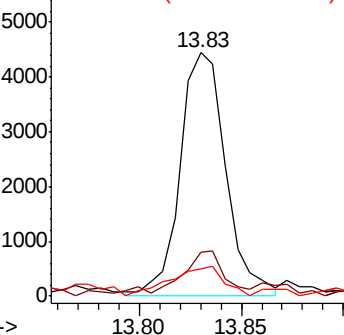
129 14.1 8.9 13.3#

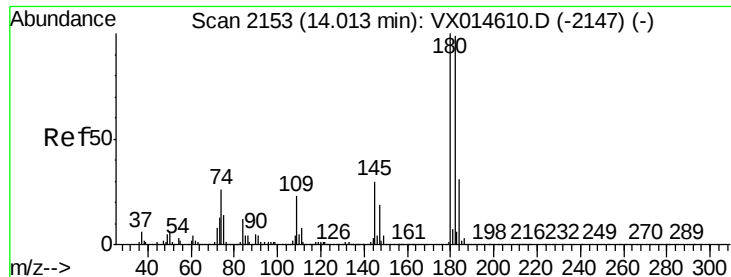


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

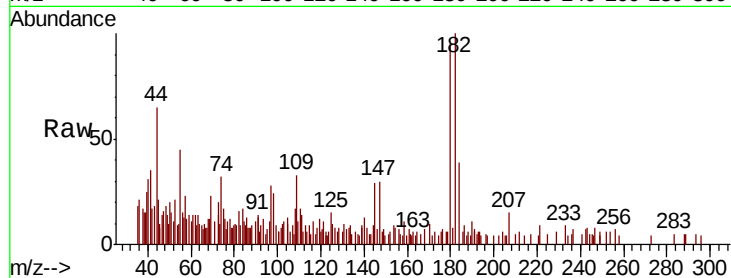




#92
 1,2,3-Trichlorobenzene
 Concen: 0.332 ug/l
 RT: 14.02 min Scan# 2154
 Delta R.T. 0.01 min
 Lab File: VX014869.D
 Acq: 07 Feb 2020 14:28

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	83.8	0.0	192.8
145	26.1	0.0	60.0



Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

