

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX012020\
 Data File : VX014668.D
 Acq On : 20 Jan 2020 12:01
 Operator : JC/SP
 Sample : L1202-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jan 21 00:31:56 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X010720W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jan 07 15:54:41 2020
 Response via : Initial Calibration

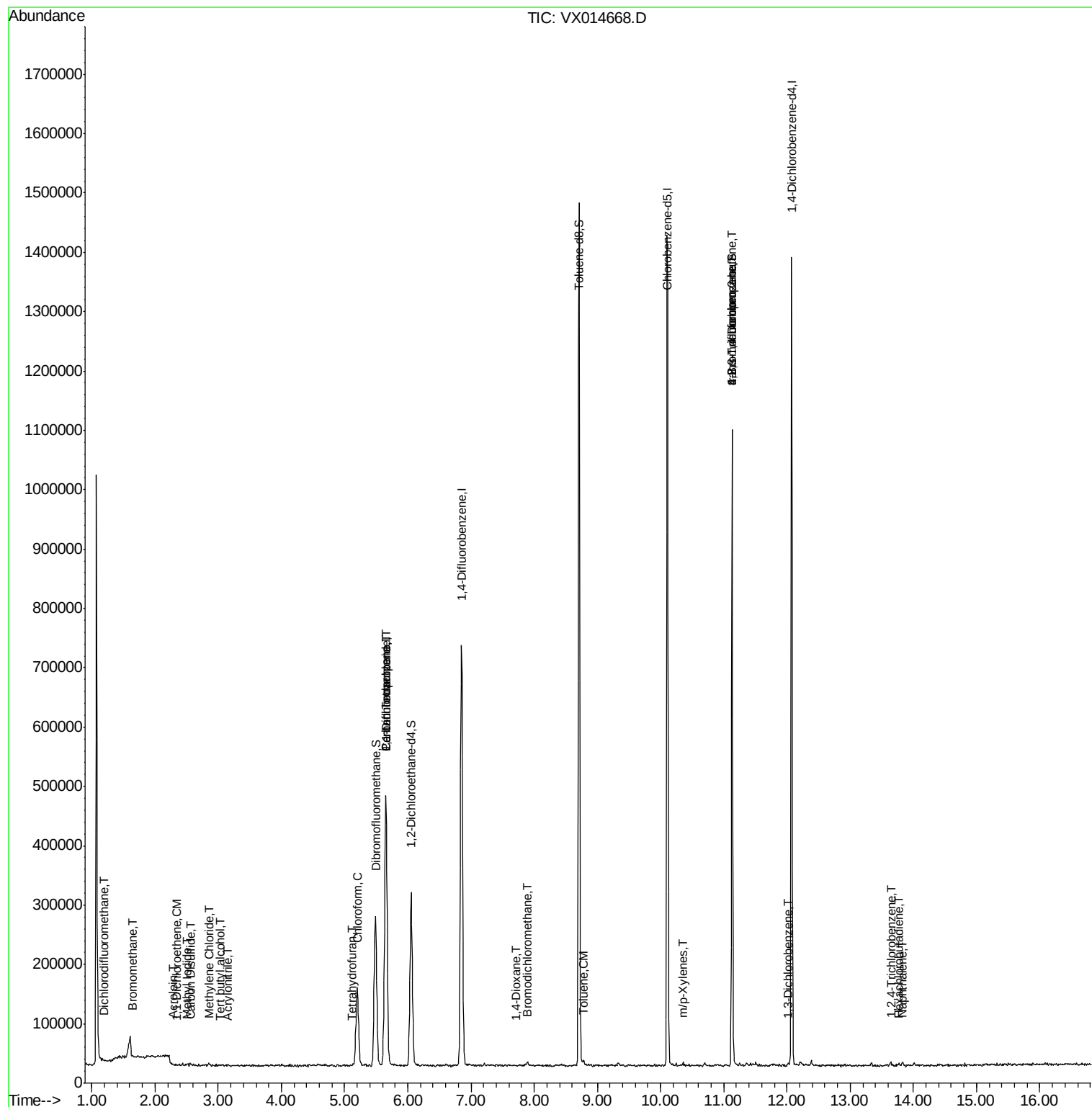
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	470747	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	723584	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	654434	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	285736	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.05	65	264609	50.35	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.70%	
35) Dibromofluoromethane	5.48	113	224854	51.33	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.66%	
50) Toluene-d8	8.71	98	864167	50.84	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.68%	
62) 4-Bromofluorobenzene	11.13	95	283094	45.37	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.74%	
Target Compounds				Qvalue		
2) Dichlorodifluoromethane	1.19	85	632	0.360	ug/l	85
5) Bromomethane	1.64	94	3565	0.804	ug/l #	69
6) Chloroethane	1.70	64	232	Below Cal	#	85
10) Methyl Iodide	2.51	142	3035	0.549	ug/l #	88
11) Tert butyl alcohol	3.03	59	1309	1.193	ug/l	98
12) 1,1-Dichloroethene	2.35	96	977	0.210	ug/l #	1
13) Acrolein	2.29	56	470	0.534	ug/l	94
15) Acrylonitrile	3.14	53	1419	0.536	ug/l #	27
16) Acetone	2.44	43	3495	Below Cal		99
17) Carbon Disulfide	2.56	76	4831	0.372	ug/l #	75
20) Methylene Chloride	2.84	84	3018	0.571	ug/l	94
29) Tetrahydrofuran	5.11	42	562	0.242	ug/l #	53
30) Chloroform	5.20	83	151959	18.122	ug/l	97
36) 1,1-Dichloropropene	5.65	75	32162	4.726	ug/l #	50
38) Carbon Tetrachloride	5.65	117	40955	6.540	ug/l #	17
47) Bromodichloromethane	7.89	83	5601	0.857	ug/l #	96
49) 1,4-Dioxane	7.72	88	109	0.900	ug/l #	1
52) Toluene	8.78	92	4099	0.317	ug/l	87
68) m/p-Xylenes	10.36	106	2272	0.243	ug/l	80
76) 1,2,3-Trichloropropane	11.13	75	141747	23.976	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	141747	63.389	ug/l #	12
87) 1,3-Dichlorobenzene	12.03	146	2169	0.217	ug/l	80
88) 1,4-Dichlorobenzene	12.03	146	2169	Below Cal		78
93) 1,2,4-Trichlorobenzene	13.64	180	2318	0.226	ug/l	91
94) Hexachlorobutadiene	13.77	225	735	0.290	ug/l	78
95) Naphthalene	13.83	128	4493	0.211	ug/l #	94

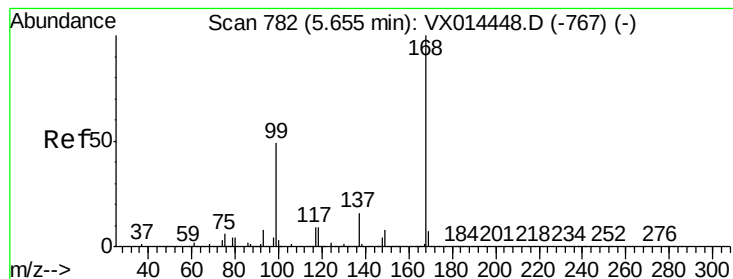
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X010720W.M
Quant Title : SW846 8260
QLast Update : Tue Jan 07 15:54:41 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.00 min

Lab File: VX014668.D

Acq: 20 Jan 2020 12:01

Instrument :

MSVOA_X

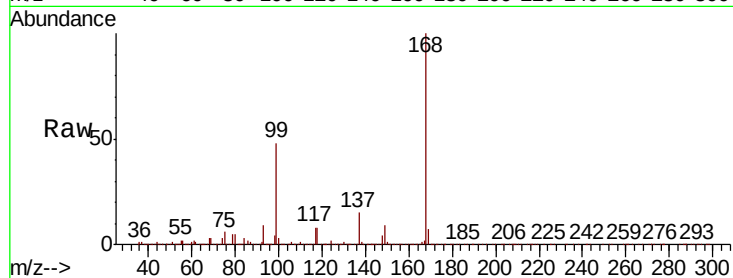
ClientSampleId :

Tot Ion:168 Resp: 470747

Ion Ratio Lower Upper

168 100

99 48.2 39.2 58.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

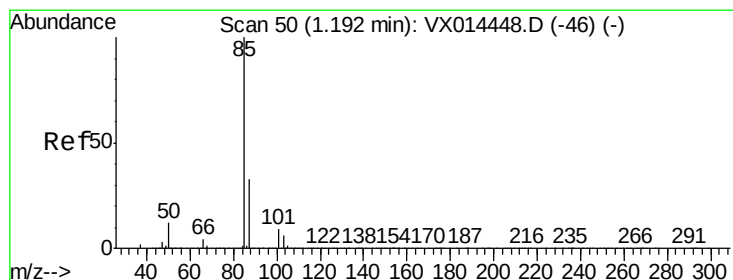
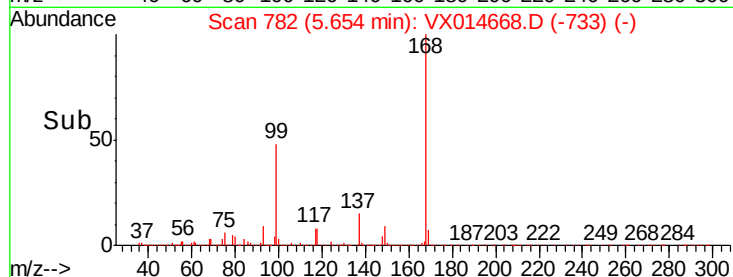
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 0.360 ug/l

RT: 1.19 min Scan# 50

Delta R.T. 0.00 min

Lab File: VX014668.D

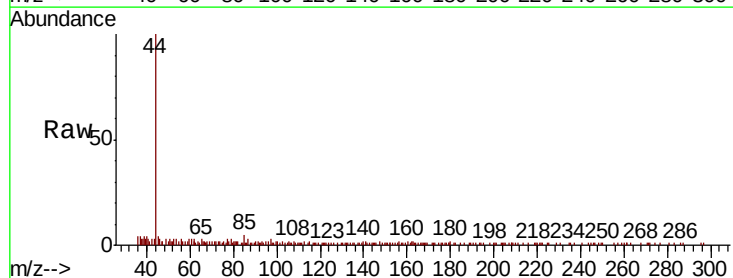
Acq: 20 Jan 2020 12:01

Tgt Ion: 85 Resp: 632

Ion Ratio Lower Upper

85 100

87 24.6 16.5 49.5



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.19

600

500

400

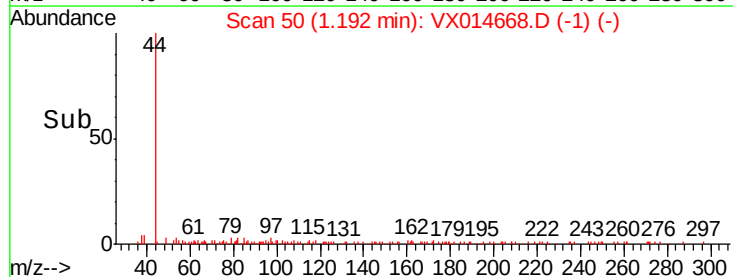
300

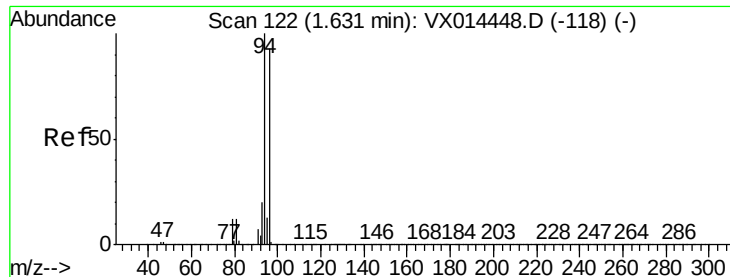
200

100

0

Time-->





#5

Bromomethane

Concen: 0.804 ug/l

RT: 1.64 min Scan# 123

Delta R.T. 0.01 min

Lab File: VX014668.D

Acq: 20 Jan 2020 12:01

Instrument :

MSVOA_X

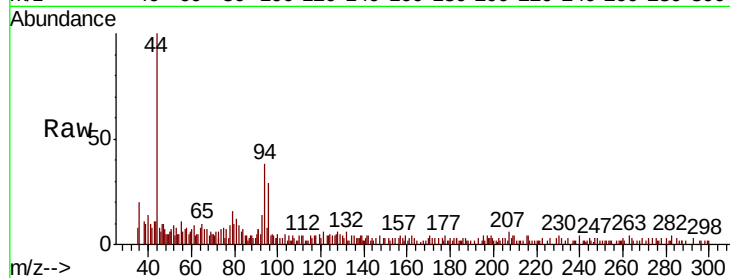
ClientSampleId :

Tot Ion: 94 Resp: 3565

Ion Ratio Lower Upper

94 100

96 62.9 74.2 111.2#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

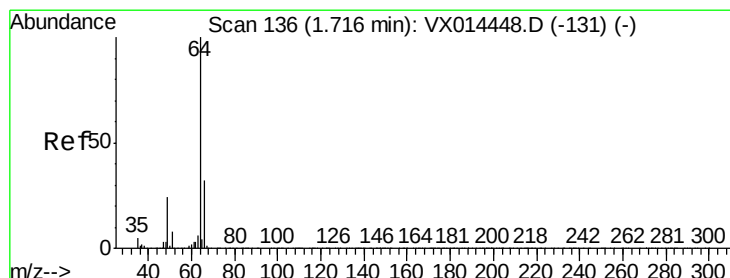
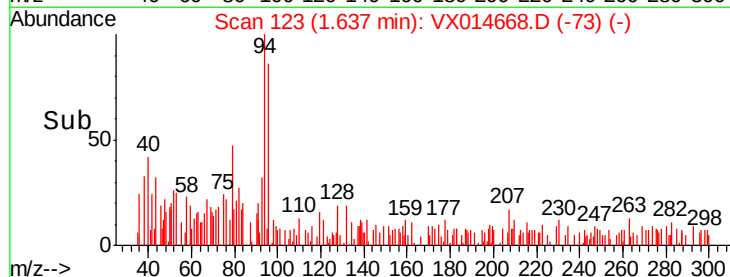
1500

1000

500

0

Time--> 1.55 1.60 1.65 1.70



#6

Chloroethane

Concen: Below Cal

RT: 1.70 min Scan# 134

Delta R.T. -0.01 min

Lab File: VX014668.D

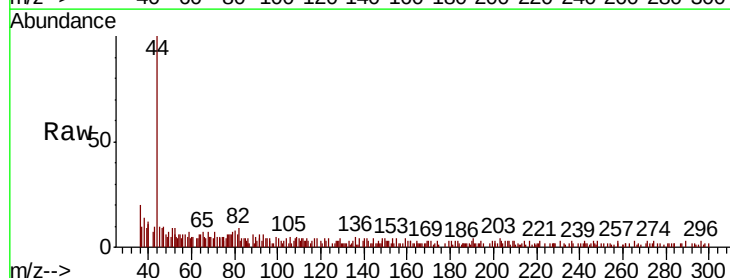
Acq: 20 Jan 2020 12:01

Tgt Ion: 64 Resp: 232

Ion Ratio Lower Upper

64 100

66 23.1 25.3 37.9#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

600

500

400

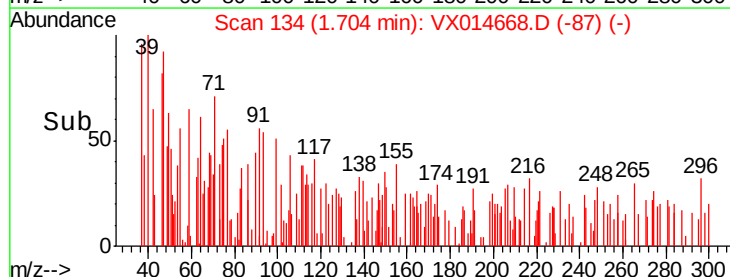
300

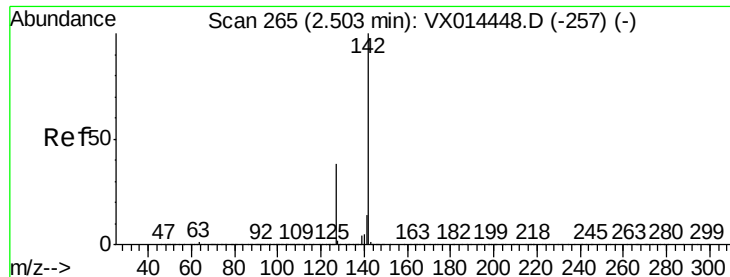
200

100

0

Time--> 1.69 1.70 1.71 1.72

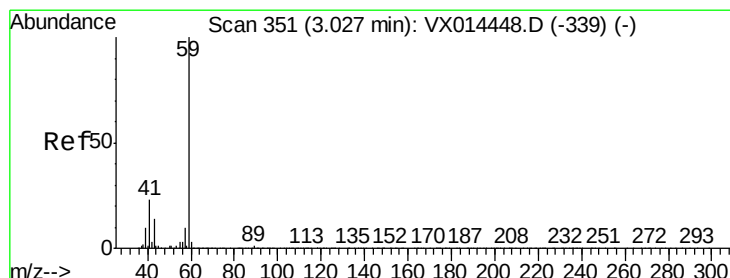
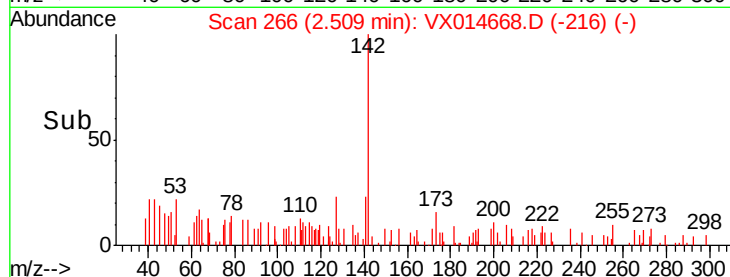
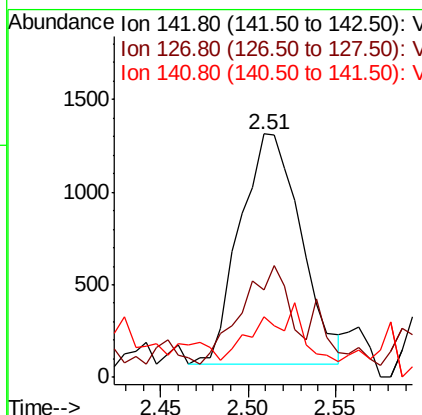
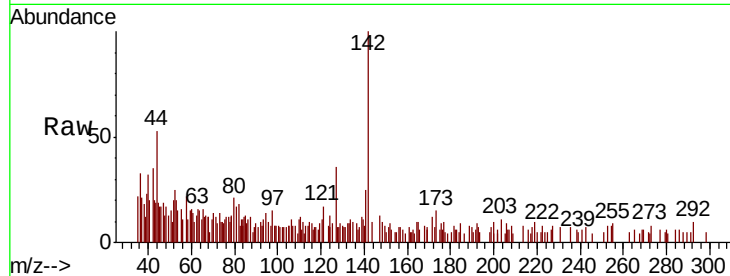




#10
Methyl Iodide
Concen: 0.549 ug/l
RT: 2.51 min Scan# 266
Delta R.T. 0.01 min
Lab File: VX014668.D
Acq: 20 Jan 2020 12:01

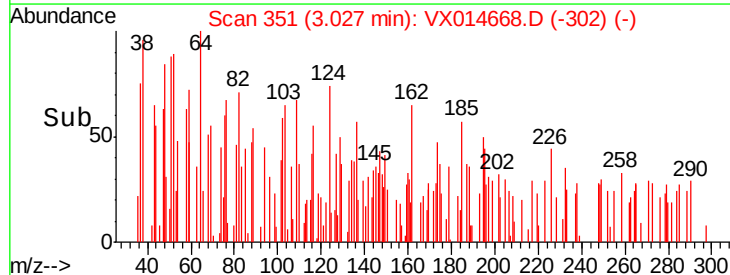
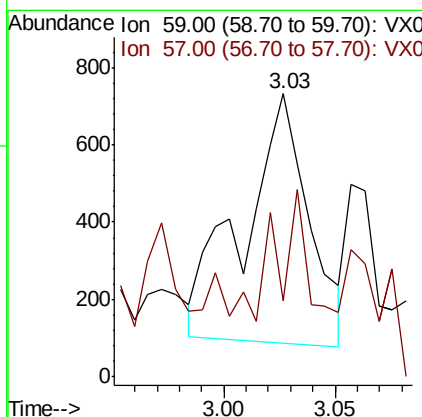
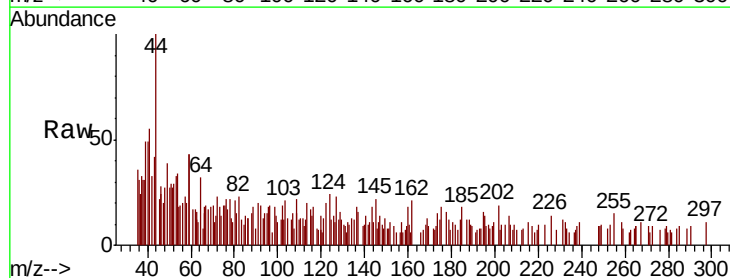
Instrument :
MSVOA_X
ClientSampleId :

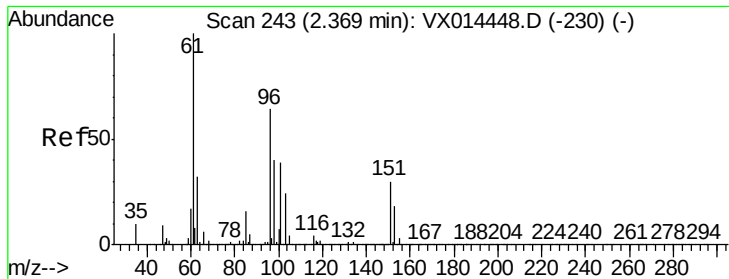
Tot Ion:142 Resp: 3035
Ion Ratio Lower Upper
142 100
127 34.2 31.2 46.8
141 24.3 11.4 17.2#



#11
Tert butyl alcohol
Concen: 1.193 ug/l
RT: 3.03 min Scan# 351
Delta R.T. -0.00 min
Lab File: VX014668.D
Acq: 20 Jan 2020 12:01

Tgt Ion: 59 Resp: 1309
Ion Ratio Lower Upper
59 100
57 11.5 8.5 12.7





#12

1,1-Dichloroethene

Concen: 0.210 ug/l

RT: 2.35 min Scan# 240

Delta R.T. -0.02 min

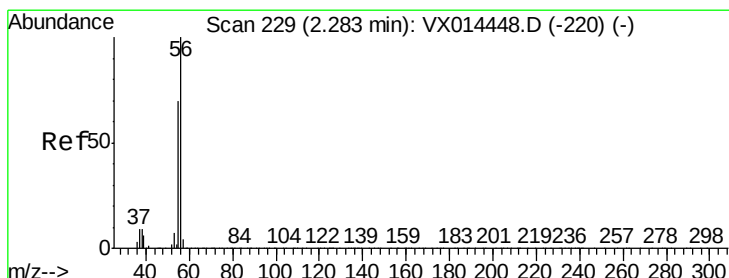
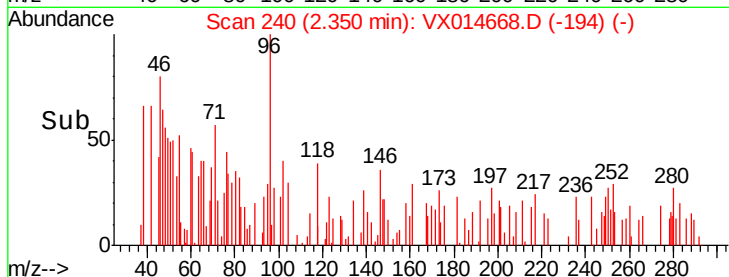
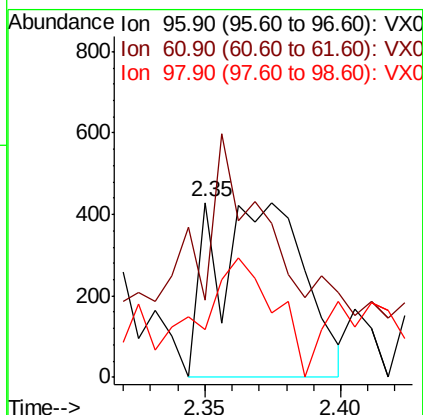
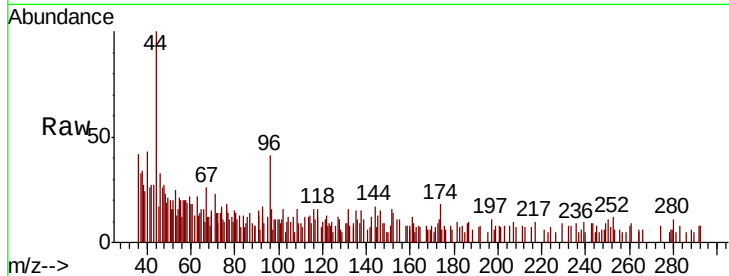
Lab File: VX014668.D

Acq: 20 Jan 2020 12:01

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 96 Resp: 977

Ion	Ratio	Lower	Upper
96	100		
61	0.0	125.0	187.6#
98	20.9	50.2	75.2#



#13

Acrolein

Concen: 0.534 ug/l

RT: 2.29 min Scan# 230

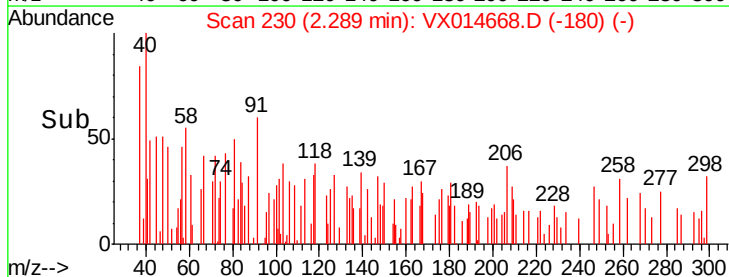
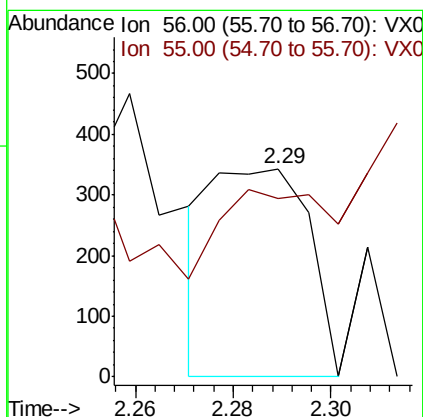
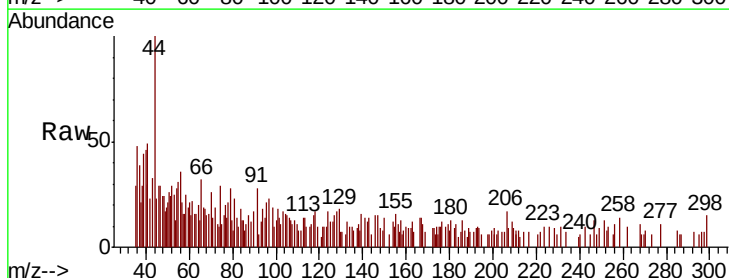
Delta R.T. 0.01 min

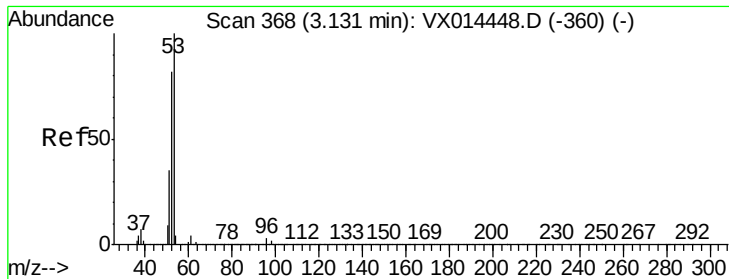
Lab File: VX014668.D

Acq: 20 Jan 2020 12:01

Tgt Ion: 56 Resp: 470

Ion	Ratio	Lower	Upper
56	100		
55	63.6	55.0	82.6

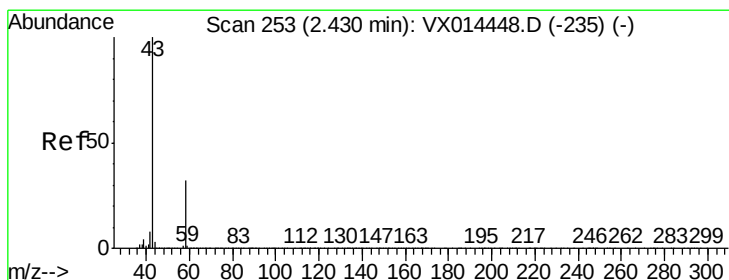
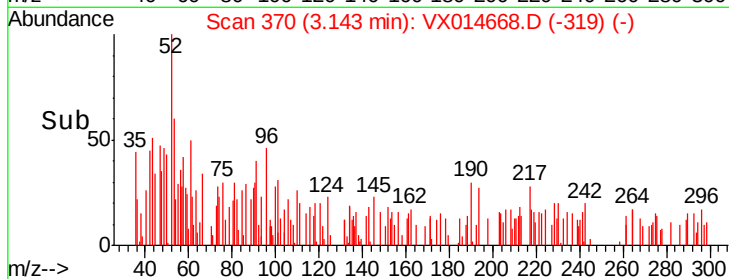
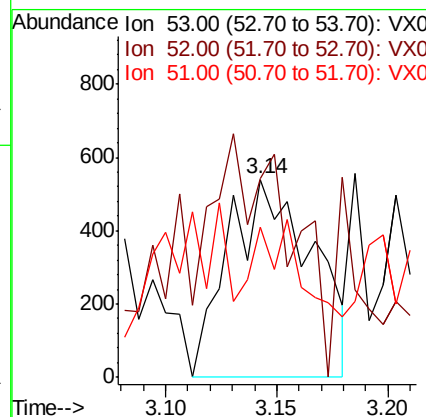
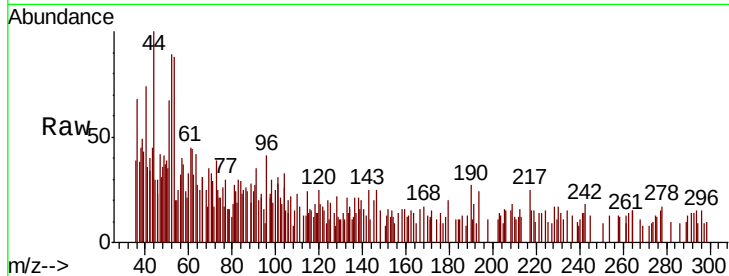




#15
Acrylonitrile
Concen: 0.536 ug/l
RT: 3.14 min Scan# 370
Delta R.T. 0.01 min
Lab File: VX014668.D
Acq: 20 Jan 2020 12:01

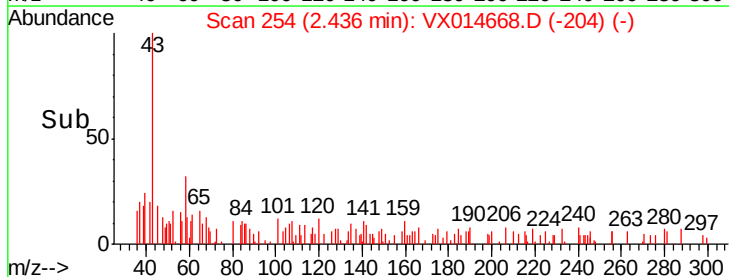
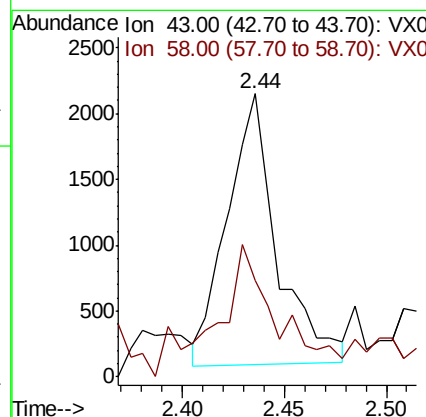
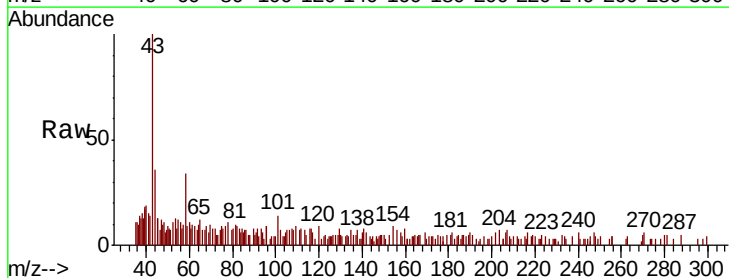
Instrument :
MSVOA_X
ClientSampled :

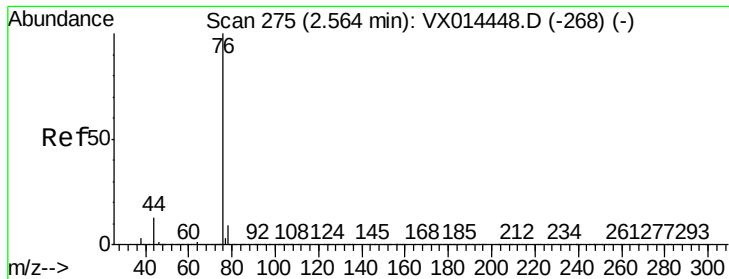
Tot Ion: 53 Resp: 1419
Ion Ratio Lower Upper
53 100
52 0.0 67.0 100.4#
51 20.6 28.5 42.7#



#16
Acetone
Concen: Below Cal
RT: 2.44 min Scan# 254
Delta R.T. 0.01 min
Lab File: VX014668.D
Acq: 20 Jan 2020 12:01

Tgt Ion: 43 Resp: 3495
Ion Ratio Lower Upper
43 100
58 31.2 25.4 38.0

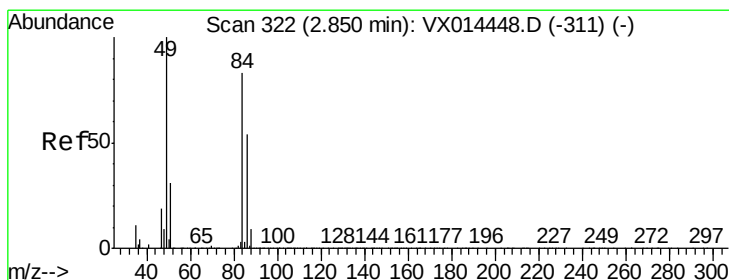
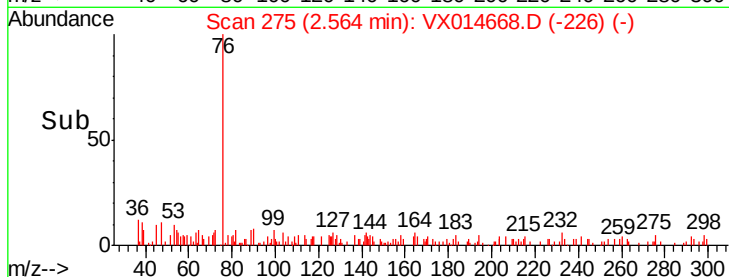
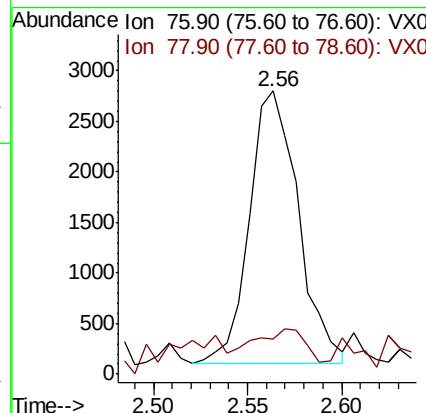
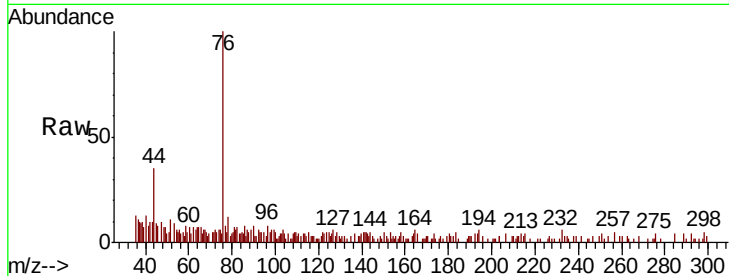




#17
Carbon Disulfide
Concen: 0.372 ug/l
RT: 2.56 min Scan# 275
Delta R.T. -0.00 min
Lab File: VX014668.D
Acq: 20 Jan 2020 12:01

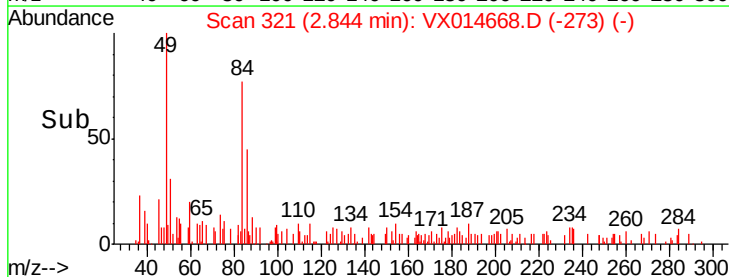
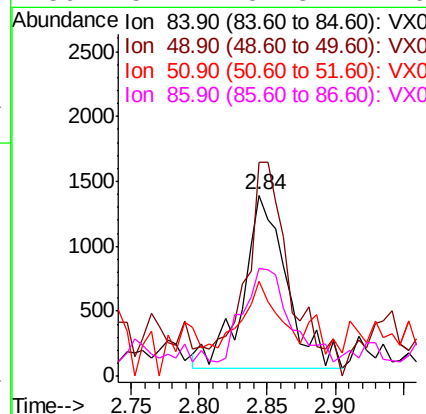
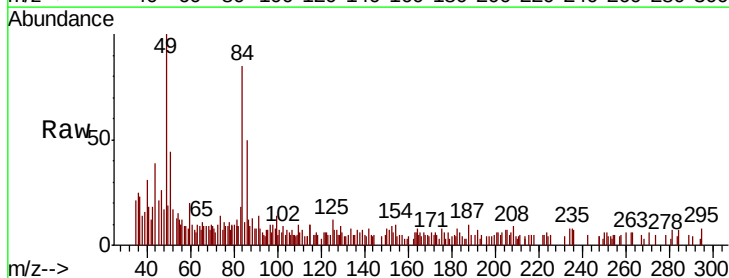
Instrument :
MSVOA_X
ClientSampleId :

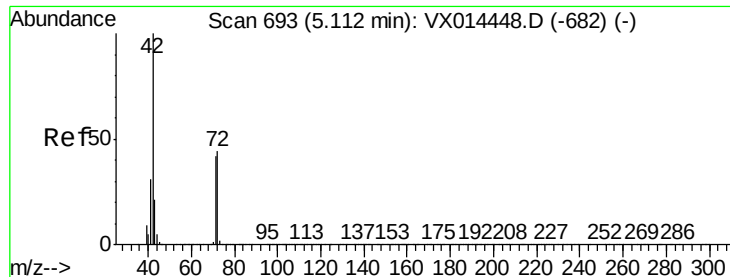
Tot Ion: 76 Resp: 4831
Ion Ratio Lower Upper
76 100
78 0.4 7.4 11.2#



#20
Methylene Chloride
Concen: 0.571 ug/l
RT: 2.84 min Scan# 321
Delta R.T. -0.01 min
Lab File: VX014668.D
Acq: 20 Jan 2020 12:01

Tgt Ion: 84 Resp: 3018
Ion Ratio Lower Upper
84 100
49 123.0 95.8 143.8
51 41.0 30.2 45.4
86 54.1 51.8 77.6





#29

Tetrahydrofuran

Concen: 0.242 ug/l

RT: 5.11 min Scan# 693

Delta R.T. -0.00 min

Lab File: VX014668.D

Acq: 20 Jan 2020 12:01

Instrument :

MSVOA_X

ClientSampleId :

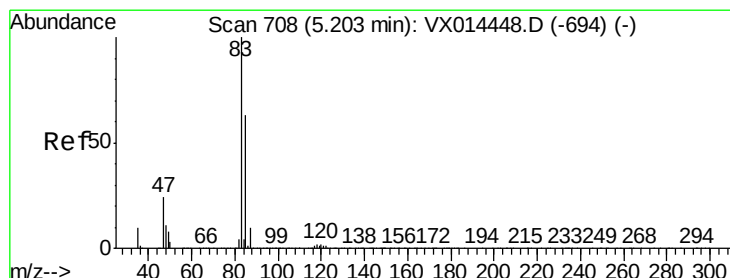
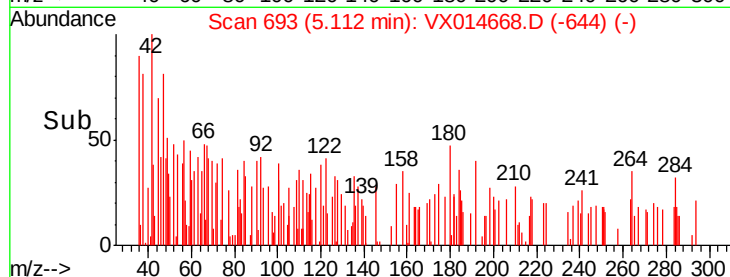
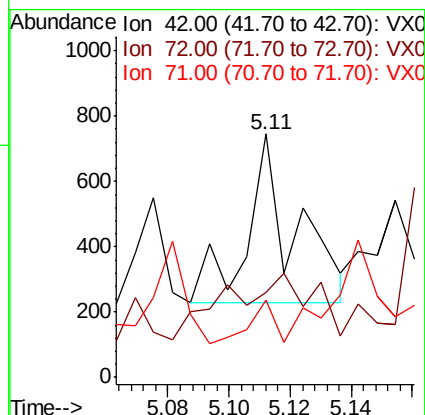
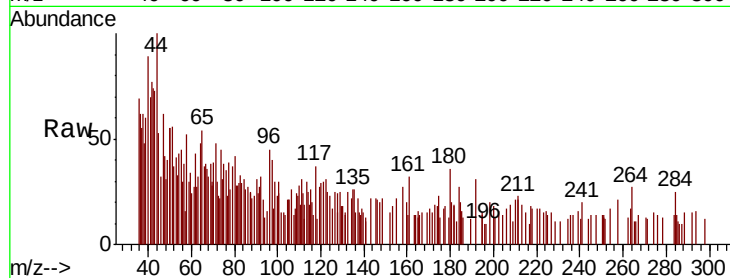
Tot Ion: 42 Resp: 562

Ion Ratio Lower Upper

42 100

72 81.5 36.2 54.4#

71 18.0 34.1 51.1#



#30

Chloroform

Concen: 18.122 ug/l

RT: 5.20 min Scan# 708

Delta R.T. -0.00 min

Lab File: VX014668.D

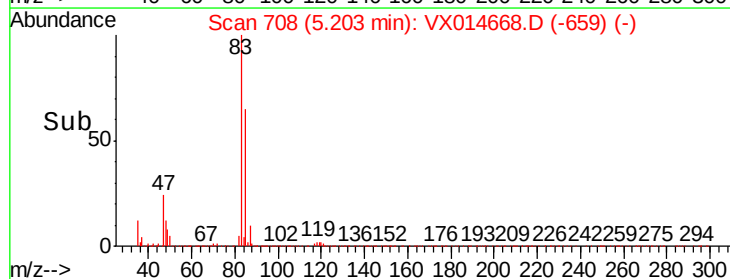
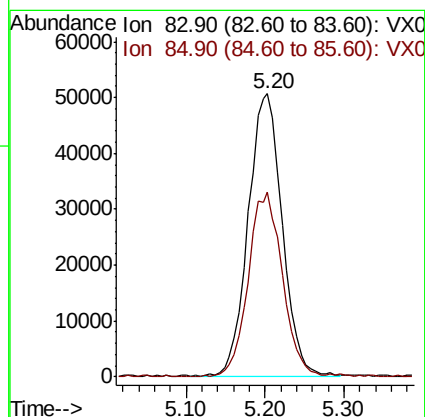
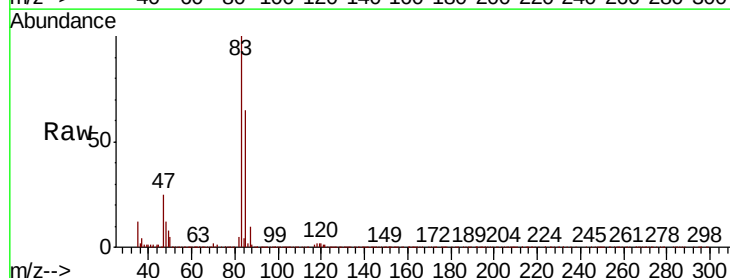
Acq: 20 Jan 2020 12:01

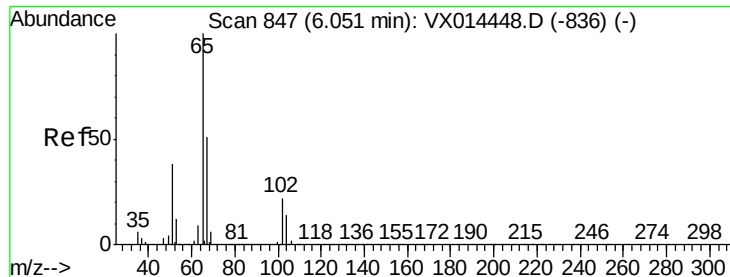
Tgt Ion: 83 Resp: 151959

Ion Ratio Lower Upper

83 100

85 65.2 50.6 75.8

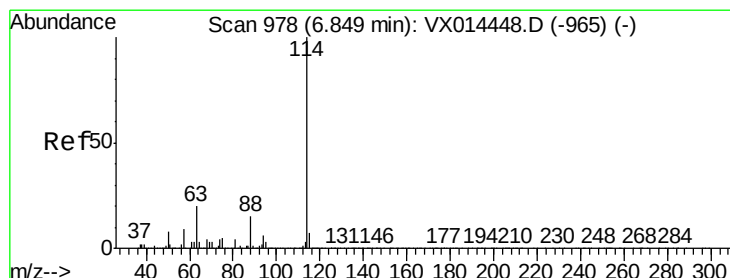
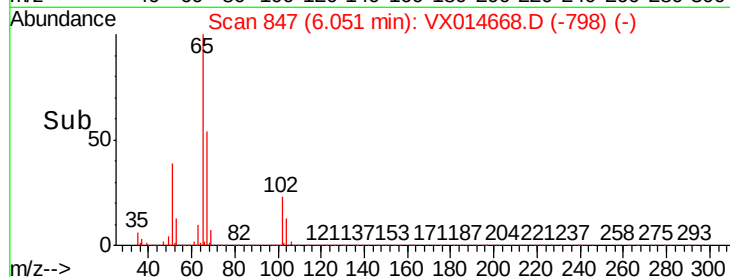
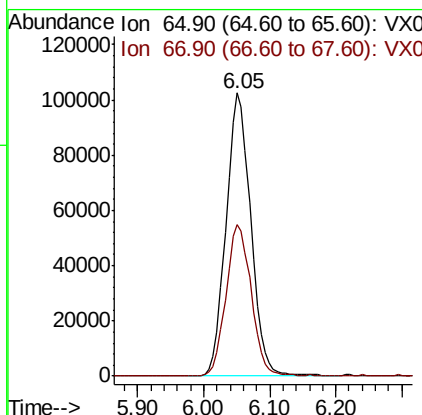
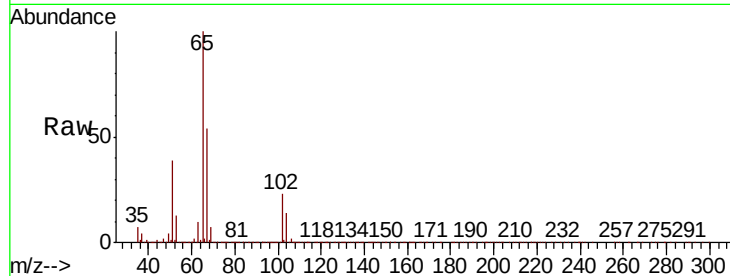




#33
 1,2-Dichloroethane-d4
 Concen: 50.352 ug/l
 RT: 6.05 min Scan# 847
 Delta R.T. -0.00 min
 Lab File: VX014668.D
 Acq: 20 Jan 2020 12:01

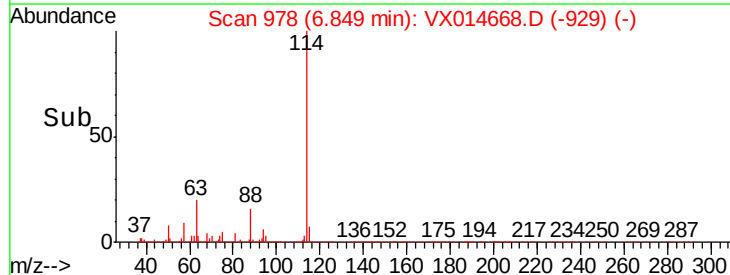
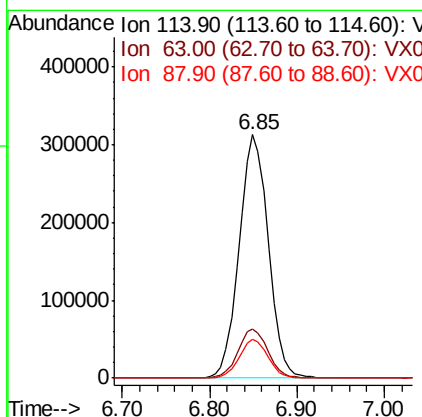
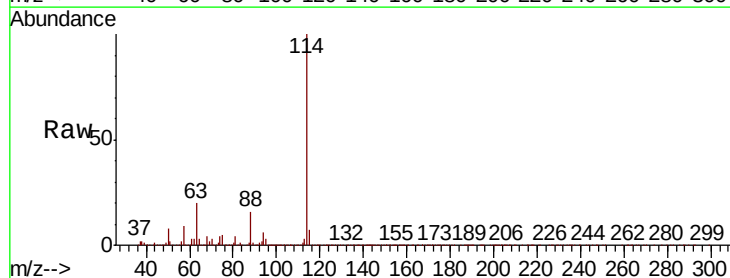
Instrument :
 MSVOA_X
 ClientSampled :

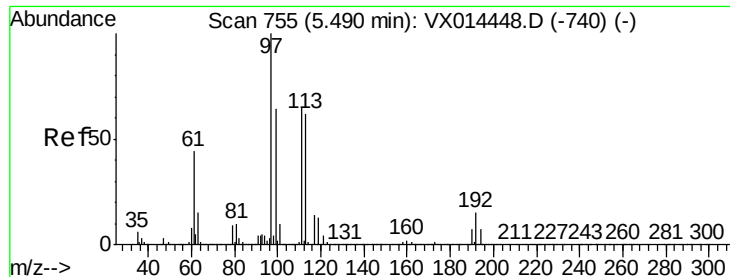
Tot Ion: 65 Resp: 264609
 Ion Ratio Lower Upper
 65 100
 67 54.5 0.0 106.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 978
 Delta R.T. -0.00 min
 Lab File: VX014668.D
 Acq: 20 Jan 2020 12:01

Tgt Ion: 114 Resp: 723584
 Ion Ratio Lower Upper
 114 100
 63 20.2 0.0 39.6
 88 15.8 0.0 30.8





#35

Dibromofluoromethane

Concen: 51.335 ug/l

RT: 5.48 min Scan# 754

Delta R.T. -0.01 min

Lab File: VX014668.D

Acq: 20 Jan 2020 12:01

Instrument :
MSVOA_X
ClientSampleId :

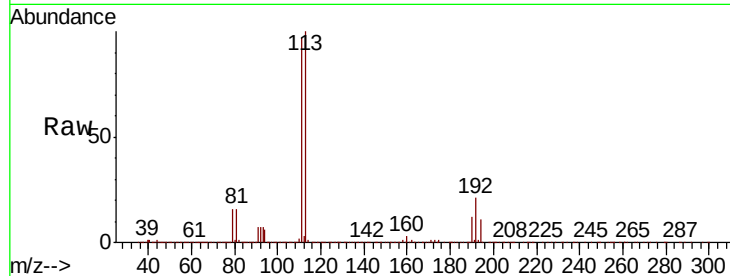
Tot Ion:113 Resp: 224854

Ion Ratio Lower Upper

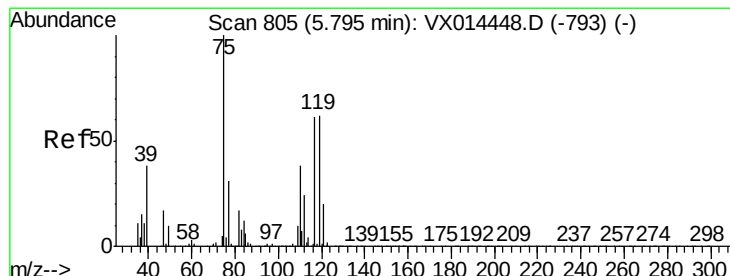
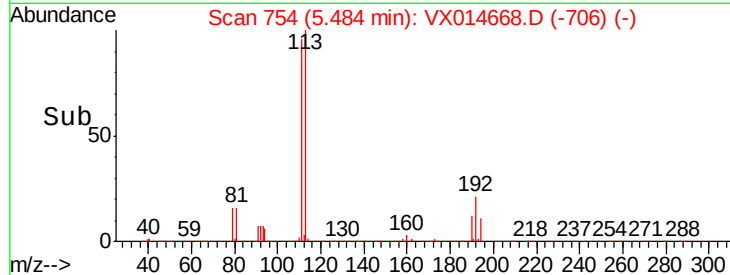
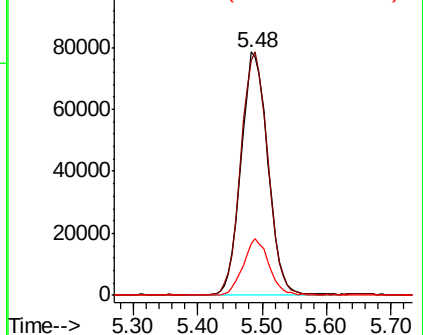
113 100

111 100.8 81.5 122.3

192 22.6 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: 4.726 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.15 min

Lab File: VX014668.D

Acq: 20 Jan 2020 12:01

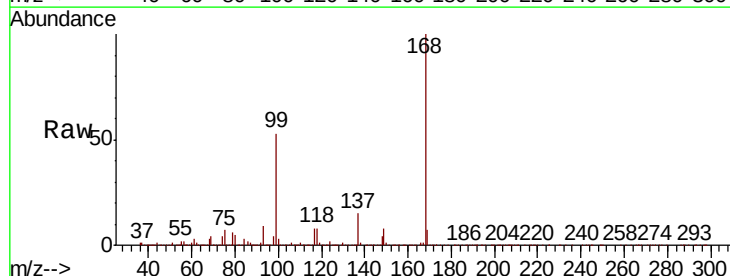
Tgt Ion: 75 Resp: 32162

Ion Ratio Lower Upper

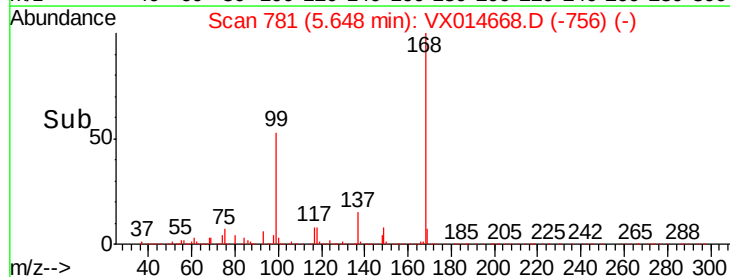
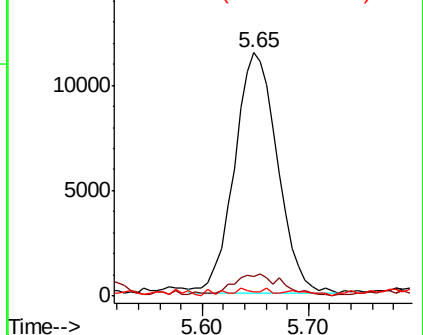
75 100

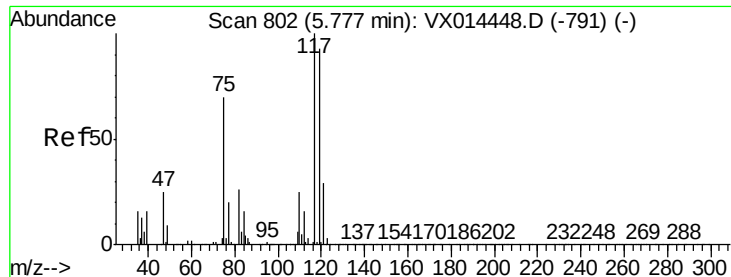
110 10.4 18.6 55.8#

77 0.4 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: 6.540 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.12 min

Lab File: VX014668.D

Acq: 20 Jan 2020 12:01

Instrument :
MSVOA_X
ClientSampleId :

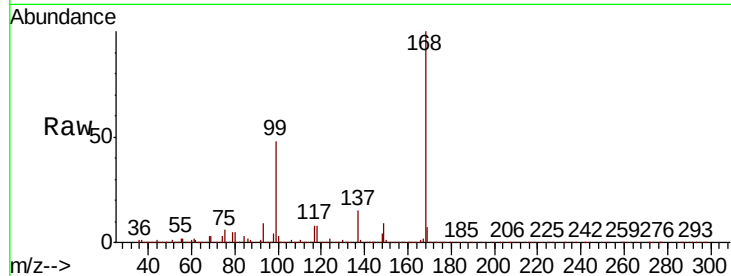
Tot Ion:117 Resp: 40955

Ion Ratio Lower Upper

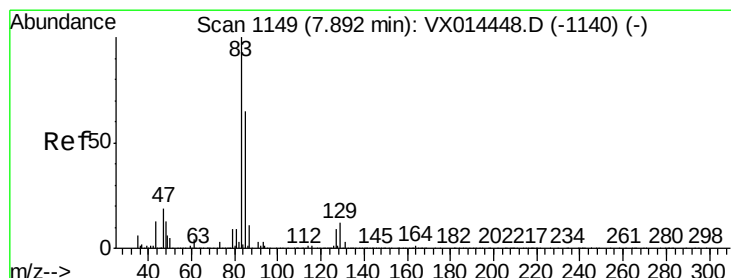
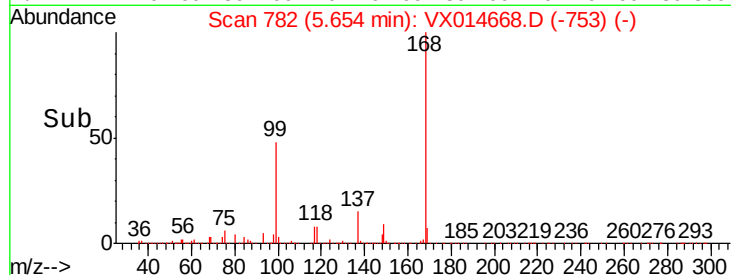
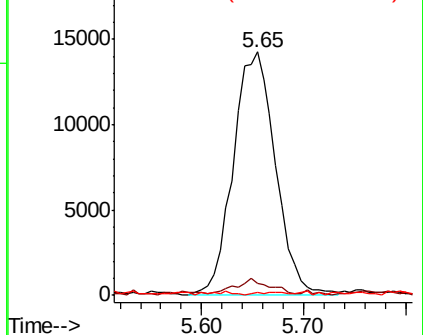
117 100

119 3.8 73.8 110.8#

121 1.0 23.4 35.0#



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



#47

Bromodichloromethane

Concen: 0.857 ug/l

RT: 7.89 min Scan# 1149

Delta R.T. -0.00 min

Lab File: VX014668.D

Acq: 20 Jan 2020 12:01

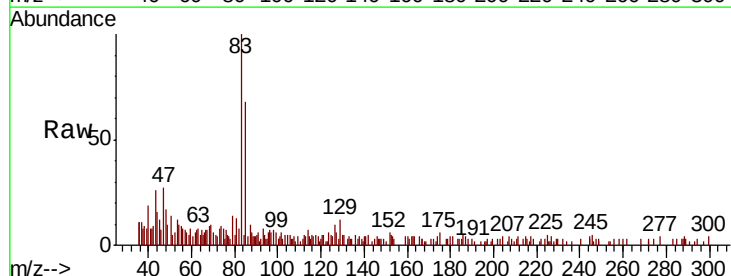
Tgt Ion: 83 Resp: 5601

Ion Ratio Lower Upper

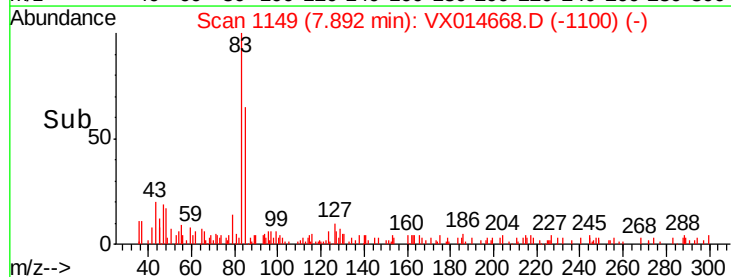
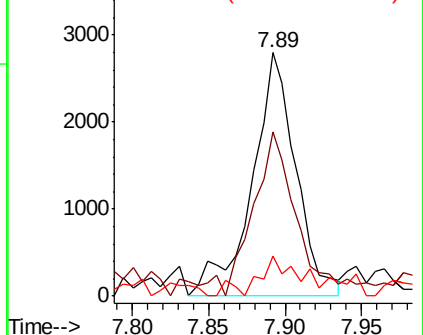
83 100

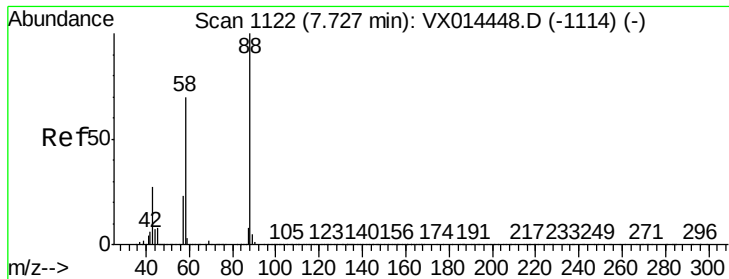
85 66.7 51.7 77.5

127 12.7 7.1 10.7#



Abundance Ion 82.90 (82.60 to 83.60): VX0
Ion 84.90 (84.60 to 85.60): VX0
Ion 126.80 (126.50 to 127.50): V





#49

1,4-Dioxane

Concen: 0.900 ug/l

RT: 7.72 min Scan# 1121

Delta R.T. -0.01 min

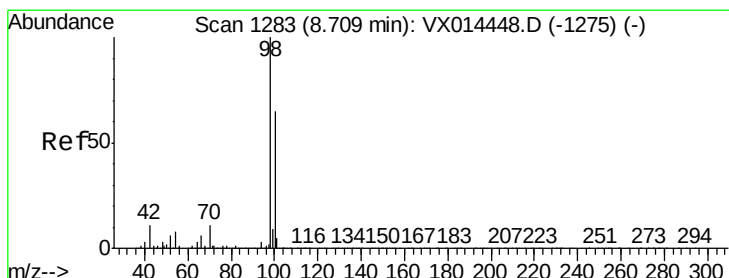
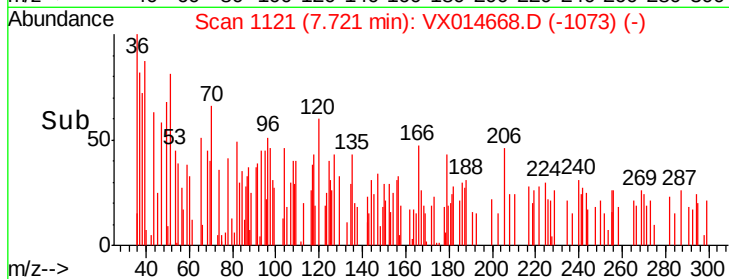
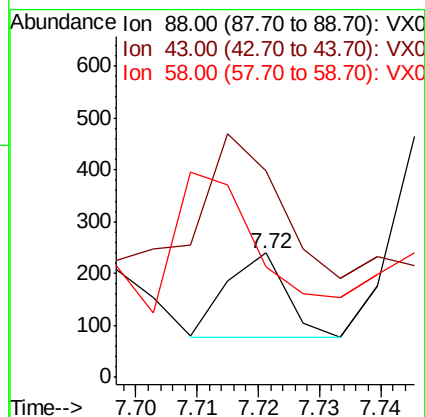
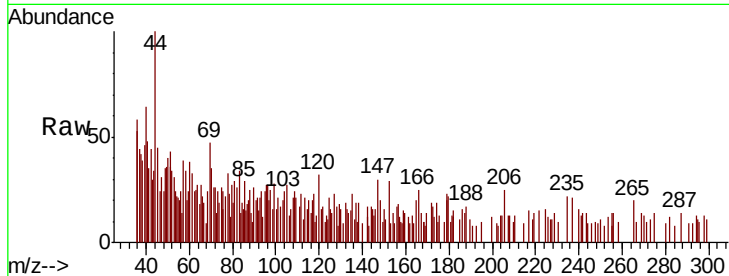
Lab File: VX014668.D

Acq: 20 Jan 2020 12:01

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 88 Resp: 109

Ion	Ratio	Lower	Upper
88	100		
43	224.8	27.4	41.0#
58	224.8	57.1	85.7#



#50

Toluene-d8

Concen: 50.839 ug/l

RT: 8.71 min Scan# 1283

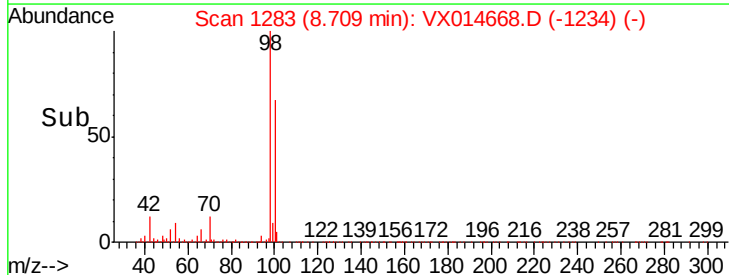
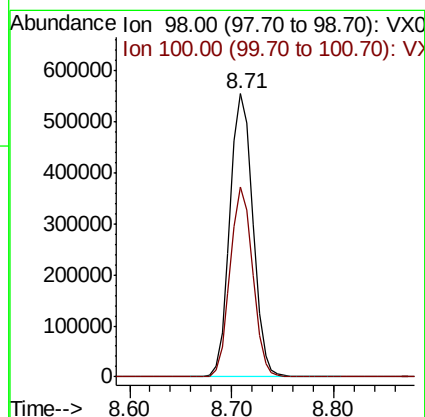
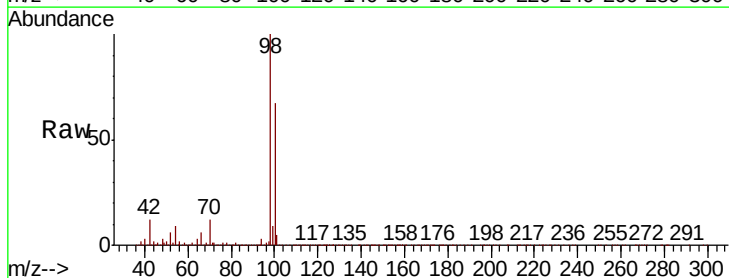
Delta R.T. -0.00 min

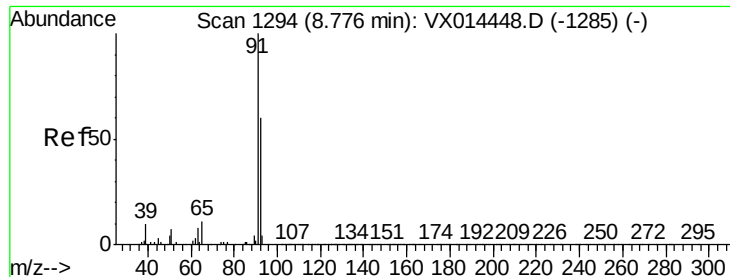
Lab File: VX014668.D

Acq: 20 Jan 2020 12:01

Tgt Ion: 98 Resp: 864167

Ion	Ratio	Lower	Upper
98	100		
100	65.8	53.2	79.8





#52

Toluene

Concen: 0.317 ug/l

RT: 8.78 min Scan# 1295

Delta R.T. 0.01 min

Lab File: VX014668.D

Acq: 20 Jan 2020 12:01

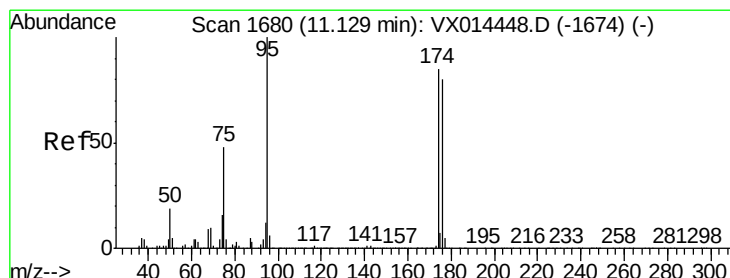
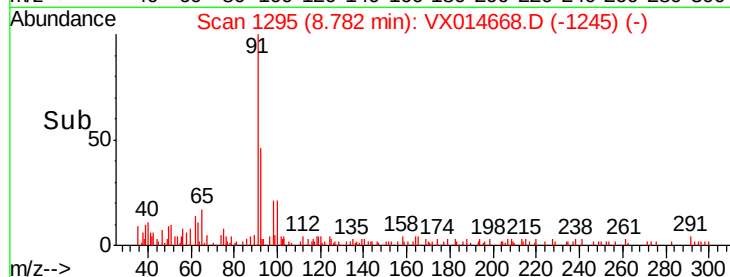
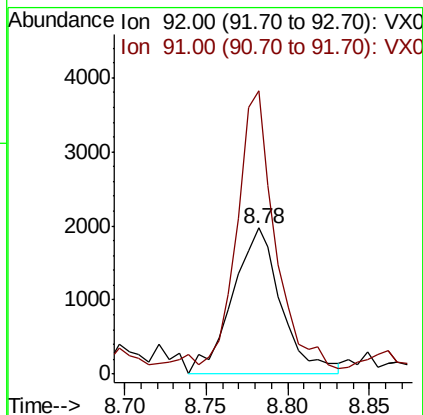
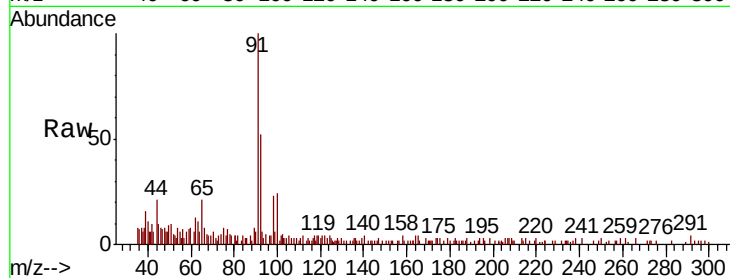
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 92 Resp: 4099

Ion Ratio Lower Upper

92 100

91 152.2 135.7 203.5



#62

4-Bromofluorobenzene

Concen: 45.367 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.00 min

Lab File: VX014668.D

Acq: 20 Jan 2020 12:01

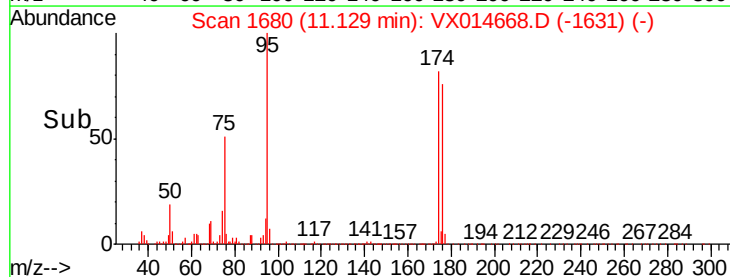
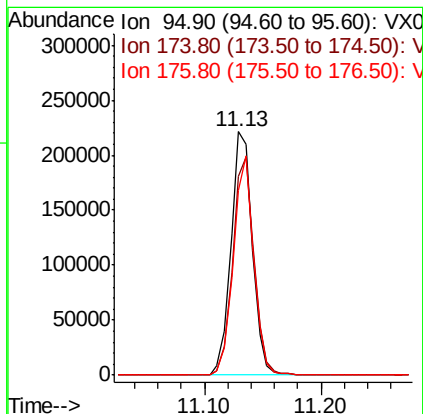
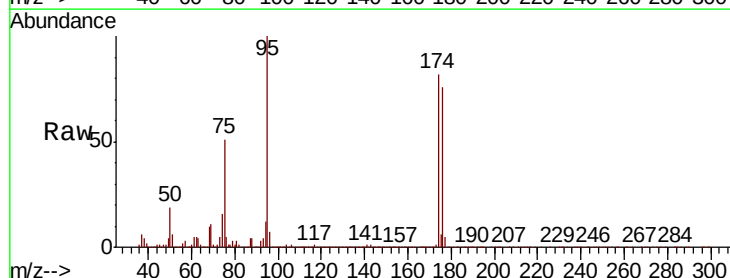
Tgt Ion: 95 Resp: 283094

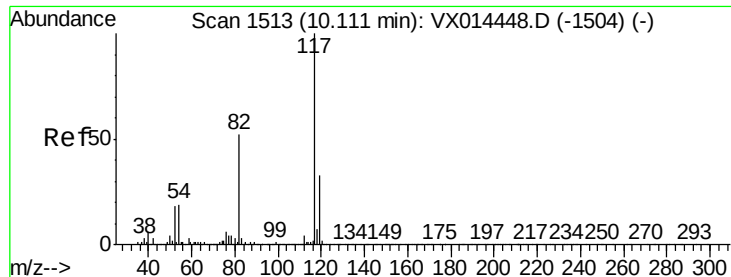
Ion Ratio Lower Upper

95 100

174 89.2 0.0 180.8

176 86.0 0.0 172.8

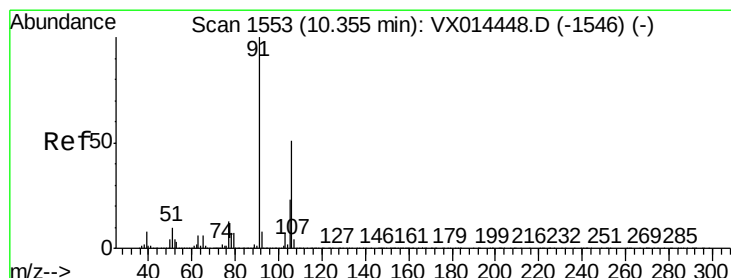
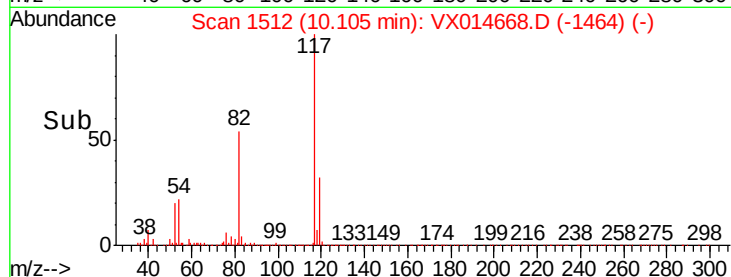
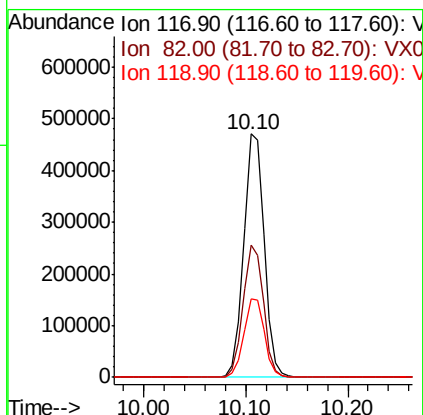
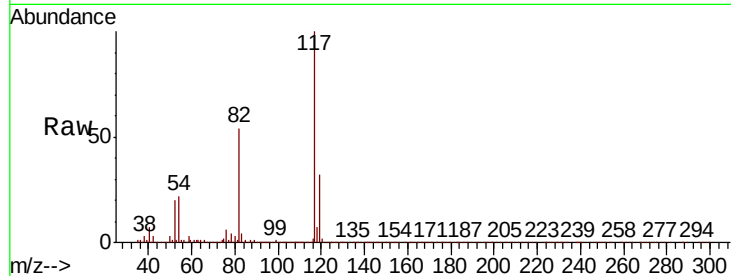




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1512
Delta R.T. -0.01 min
Lab File: VX014668.D
Acq: 20 Jan 2020 12:01

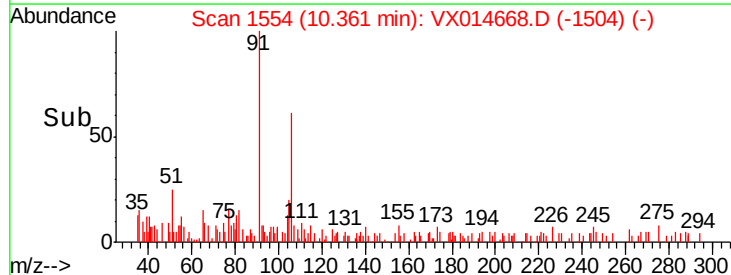
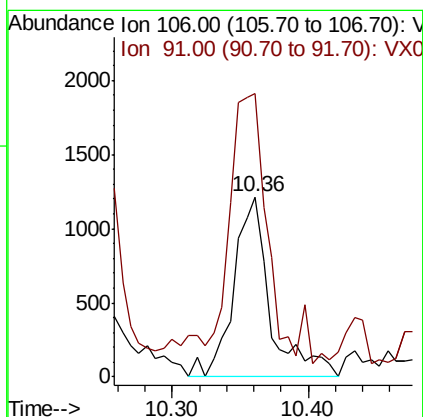
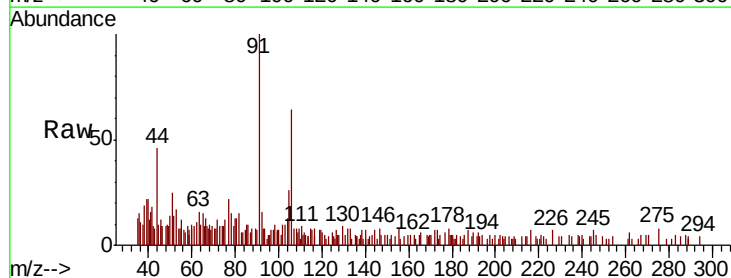
Instrument :
MSVOA_X
ClientSampleId :

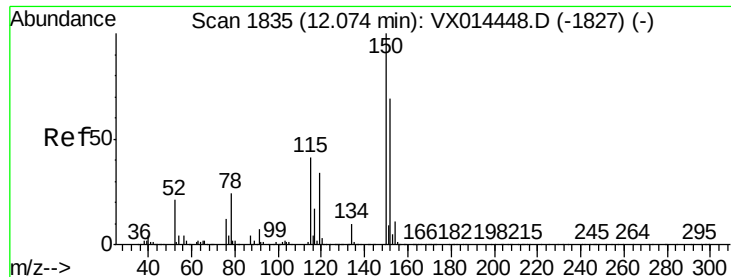
Tot Ion	Ratio	Lower	Upper
117	100		
82	54.2	41.8	62.6
119	32.0	26.2	39.4



#68
m/p-Xylenes
Concen: 0.243 ug/l
RT: 10.36 min Scan# 1554
Delta R.T. 0.01 min
Lab File: VX014668.D
Acq: 20 Jan 2020 12:01

Tgt Ion	Ratio	Lower	Upper
106	100		
91	167.1	157.4	236.0



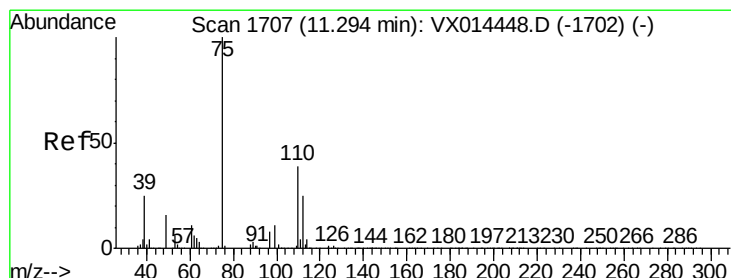
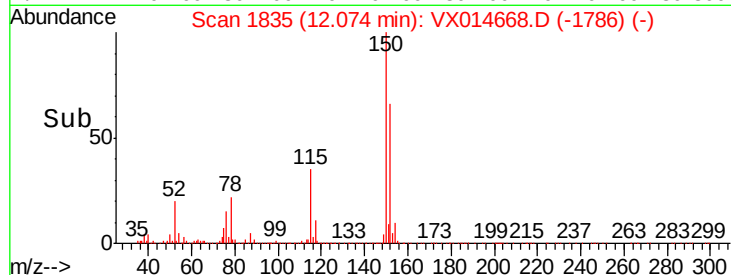
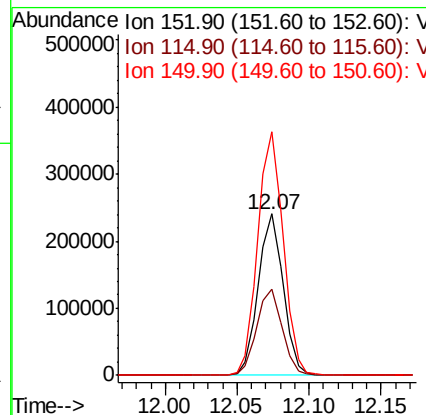
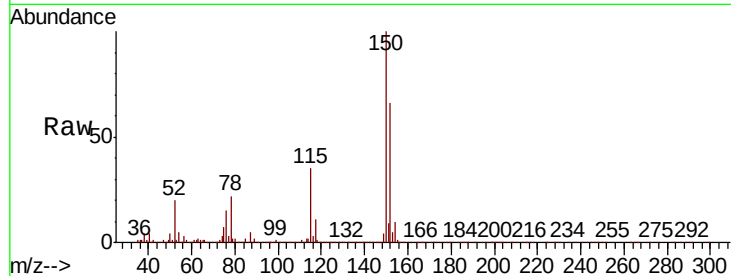


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. -0.00 min
Lab File: VX014668.D
Acq: 20 Jan 2020 12:01

Instrument :
MSVOA_X
ClientSampled :

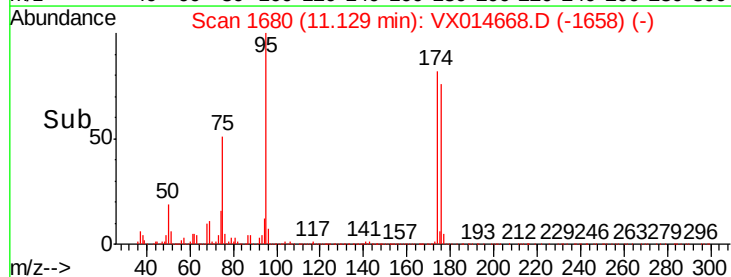
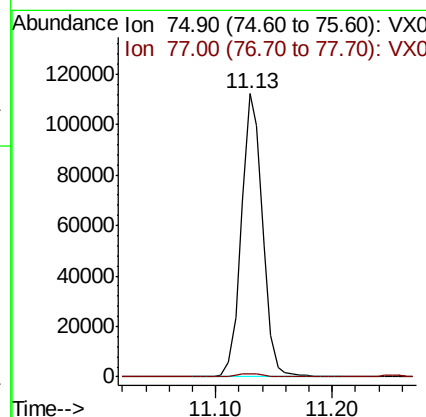
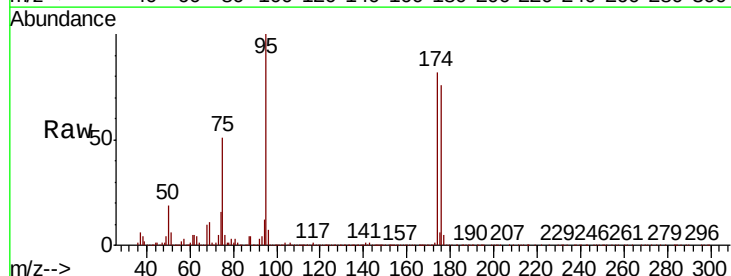
Tot Ion	Ratio	Lower	Upper
152	100		
115	54.9	39.5	118.3
150	154.1	0.0	350.2

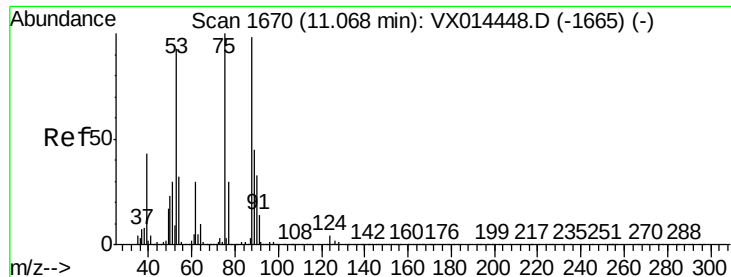


#76

1,2,3-Trichloropropane
Concen: 23.976 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. -0.16 min
Lab File: VX014668.D
Acq: 20 Jan 2020 12:01

Tgt Ion	Ratio	Lower	Upper
75	100		
77	1.3	21.9	65.7#

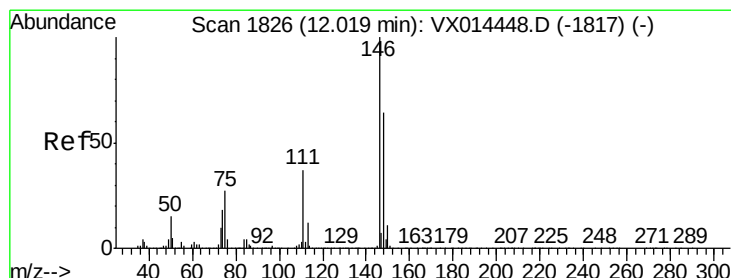
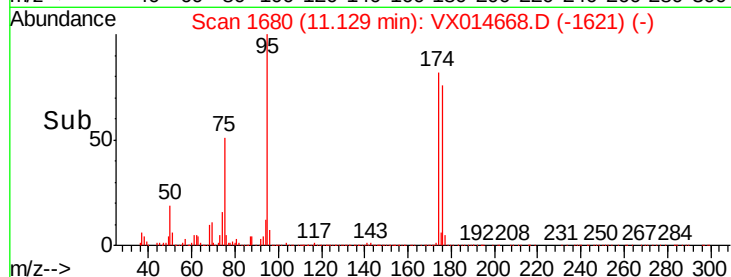
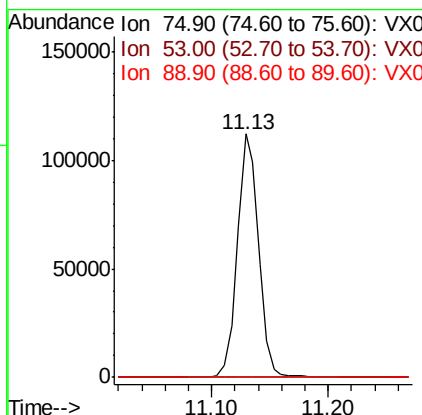
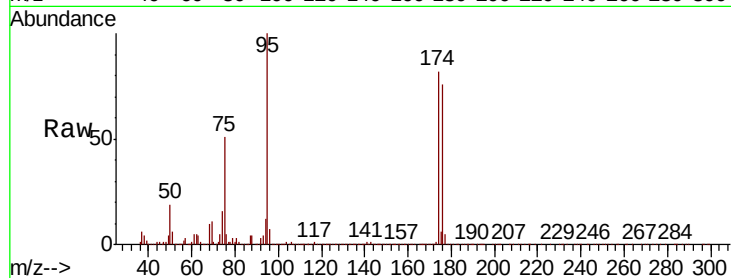




#81
trans-1,4-Dichloro-2-butene
Concen: 63.389 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. 0.06 min
Lab File: VX014668.D
Acq: 20 Jan 2020 12:01

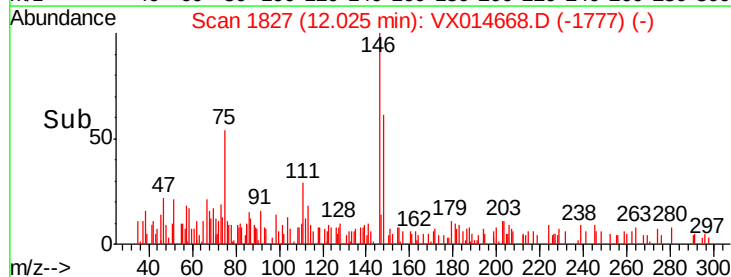
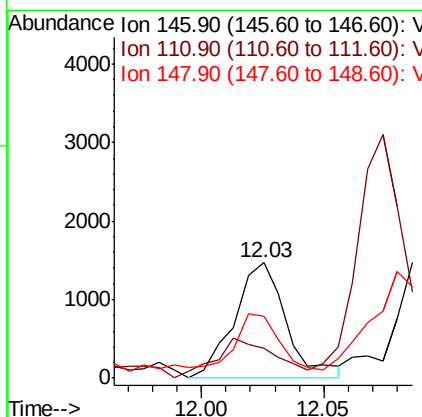
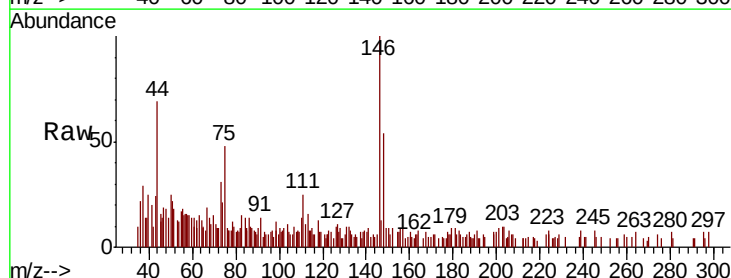
Instrument :
MSVOA_X
ClientSampled :

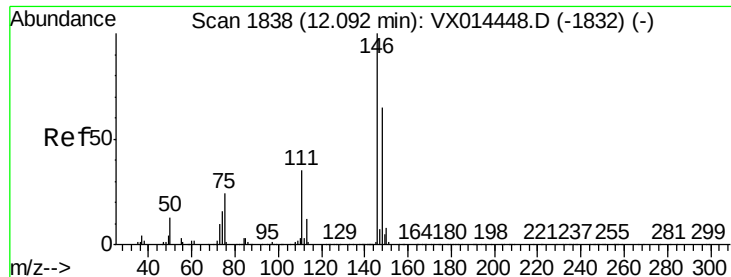
Tot Ion: 75 Resp: 141747
Ion Ratio Lower Upper
75 100
53 0.3 74.8 112.2#
89 0.1 36.3 54.5#



#87
1,3-Dichlorobenzene
Concen: 0.217 ug/l
RT: 12.03 min Scan# 1827
Delta R.T. 0.01 min
Lab File: VX014668.D
Acq: 20 Jan 2020 12:01

Tgt Ion: 146 Resp: 2169
Ion Ratio Lower Upper
146 100
111 40.4 18.9 56.7
148 41.0 32.2 96.6

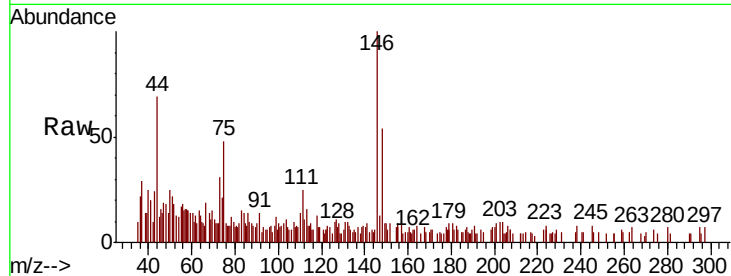




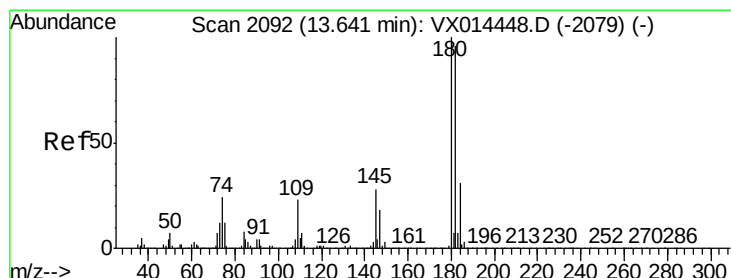
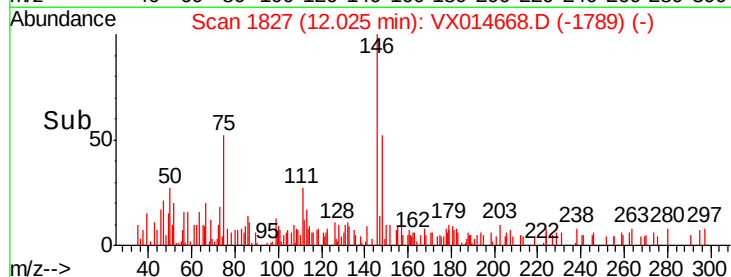
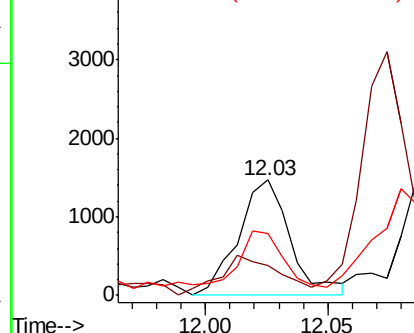
#88
 1,4-Dichlorobenzene
 Concen: Below Cal
 RT: 12.03 min Scan# 1827
 Delta R.T. -0.07 min
 Lab File: VX014668.D
 Acq: 20 Jan 2020 12:01

Instrument :
 MSVOA_X
 ClientSampled :

Tot Ion:146 Resp: 2169
 Ion Ratio Lower Upper
 146 100
 111 40.4 18.1 54.1
 148 40.2 32.1 96.3

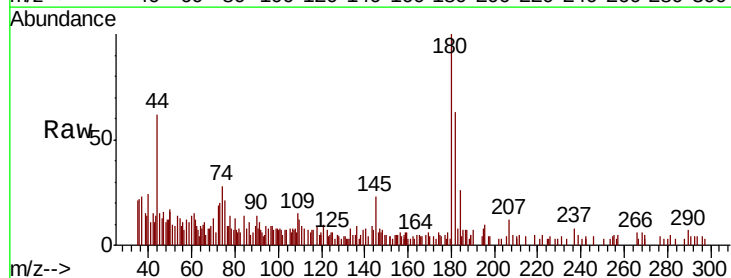


Abundance Ion 145.90 (145.60 to 146.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

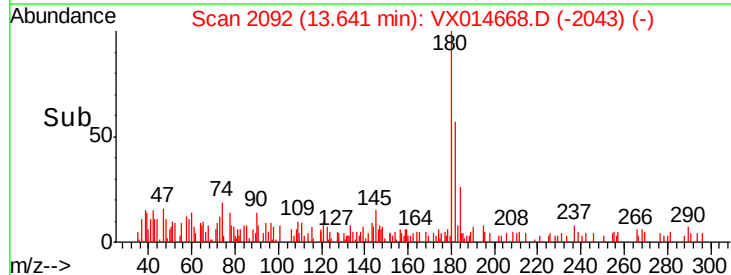
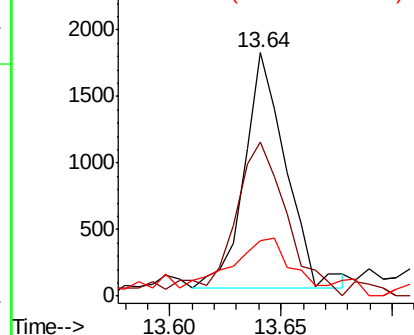


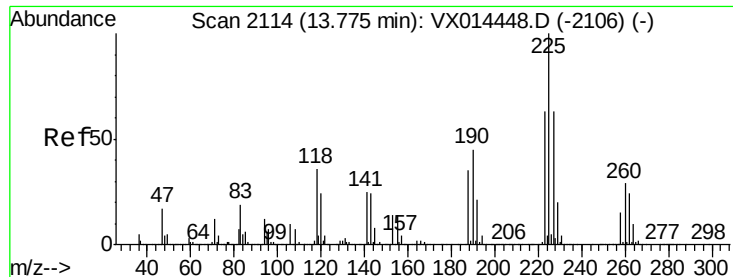
#93
 1,2,4-Trichlorobenzene
 Concen: 0.226 ug/l
 RT: 13.64 min Scan# 2092
 Delta R.T. 0.00 min
 Lab File: VX014668.D
 Acq: 20 Jan 2020 12:01

Tgt Ion:180 Resp: 2318
 Ion Ratio Lower Upper
 180 100
 182 86.5 47.5 142.5
 145 33.7 13.9 41.6



Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V





#94

Hexachlorobutadiene

Concen: 0.290 ug/l

RT: 13.77 min Scan# 2114

Delta R.T. -0.00 min

Lab File: VX014668.D

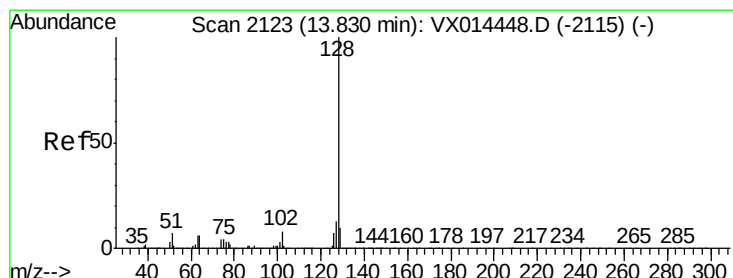
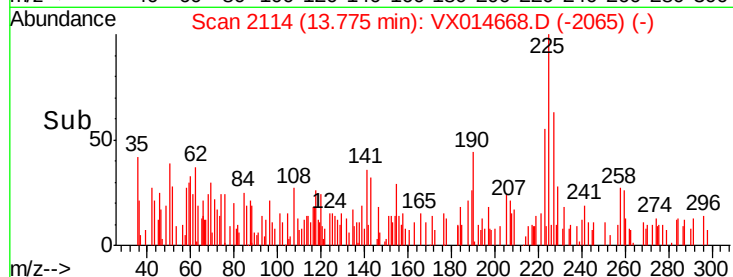
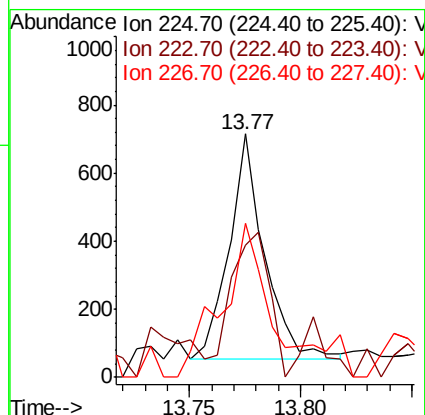
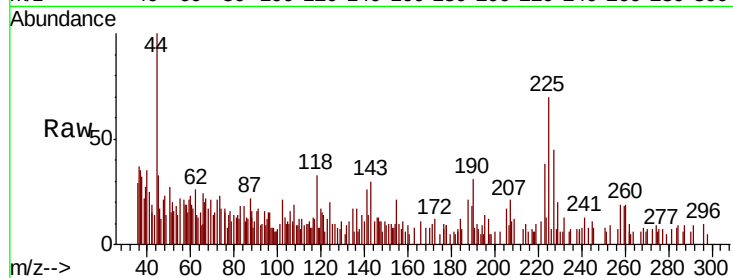
Acq: 20 Jan 2020 12:01

Instrument :

MSVOA_X

ClientSampled :

Tot Ion:	225	Resp:	735
Ion	Ratio	Lower	Upper
225	100		
223	69.8	31.1	93.2
227	88.6	31.4	94.2



#95

Naphthalene

Concen: 0.211 ug/l

RT: 13.83 min Scan# 2123

Delta R.T. -0.00 min

Lab File: VX014668.D

Acq: 20 Jan 2020 12:01

Tgt Ion:	128	Resp:	4493
Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.3	15.5
129	16.1	8.7	13.1#

