

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX123019\
 Data File : VX014352.D
 Acq On : 30 Dec 2019 14:36
 Operator : JC/SP
 Sample : K6449-12
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Dec 31 01:18:15 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121319W.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 17 03:01:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	533010	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	822851	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	732701	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	316774	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.05	65	299653	49.60	ug/l	0.00
Spiked Amount			Recovery	=	99.20%	
35) Dibromofluoromethane	5.49	113	245587	49.10	ug/l	0.00
Spiked Amount			Recovery	=	98.20%	
50) Toluene-d8	8.71	98	977944	50.22	ug/l	0.00
Spiked Amount			Recovery	=	100.44%	
62) 4-Bromofluorobenzene	11.13	95	324645	45.60	ug/l	0.00
Spiked Amount			Recovery	=	91.20%	

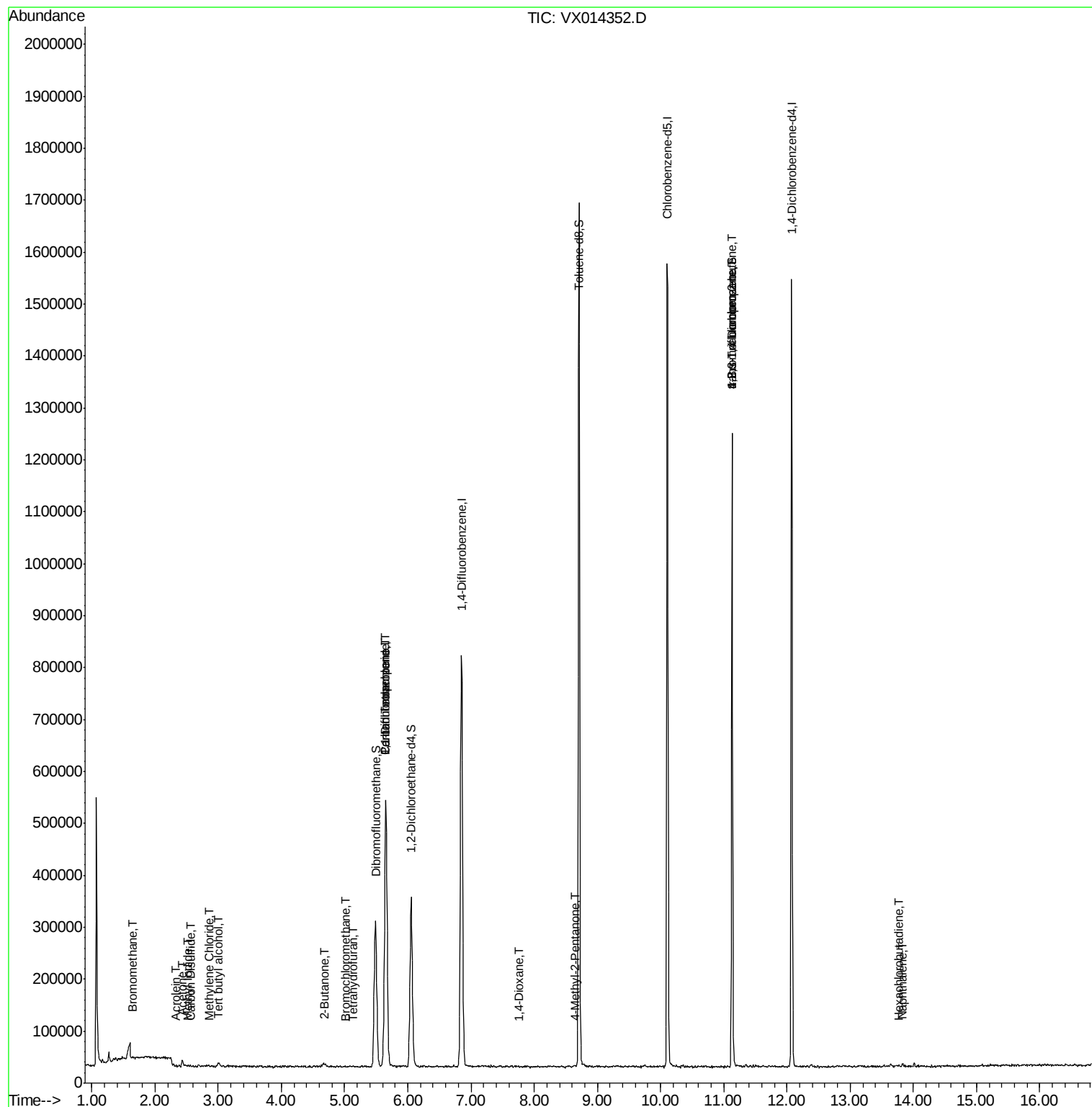
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	1880	0.392	ug/l	84
10) Methyl Iodide	2.51	142	3170	3.073	ug/l #	90
11) Tert butyl alcohol	3.00	59	4342	3.326	ug/l #	82
13) Acrolein	2.33	56	368	0.493	ug/l #	59
16) Acetone	2.44	43	14214	3.624	ug/l	97
17) Carbon Disulfide	2.56	76	3302	0.979	ug/l	99
20) Methylene Chloride	2.85	84	2292	0.371	ug/l #	85
25) 2-Butanone	4.68	43	4576	0.946	ug/l	91
28) Bromochloromethane	5.01	49	544	0.592	ug/l #	50
29) Tetrahydrofuran	5.14	42	1183	0.437	ug/l #	68
36) 1,1-Dichloropropene	5.65	75	37171	4.923	ug/l #	49
38) Carbon Tetrachloride	5.65	117	47909	6.965	ug/l #	16
49) 1,4-Dioxane	7.76	88	367	2.669	ug/l #	1
51) 4-Methyl-2-Pentanone	8.64	43	4284	0.494	ug/l	87
76) 1,2,3-Trichloropropane	11.13	75	156268	22.723	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.13	75	156268	64.136	ug/l #	12
94) Hexachlorobutadiene	13.78	225	827	0.245	ug/l	95
95) Naphthalene	13.83	128	4397	0.213	ug/l #	92

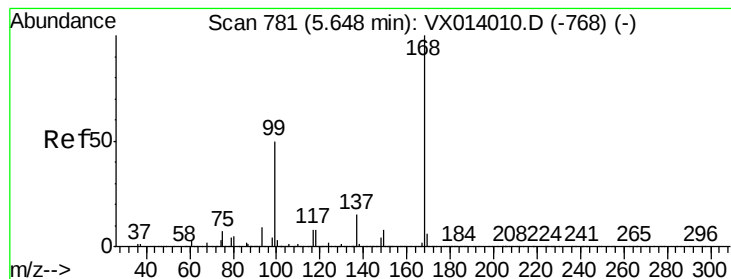
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Dec 17 03:01:07 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.01 min

Lab File: VX014352.D

Acq: 30 Dec 2019 14:36

Instrument :

MSVOA_X

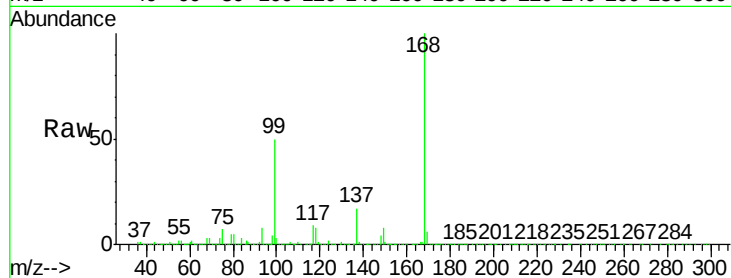
ClientSampleId :

Tot Ion:168 Resp: 533010

Ion Ratio Lower Upper

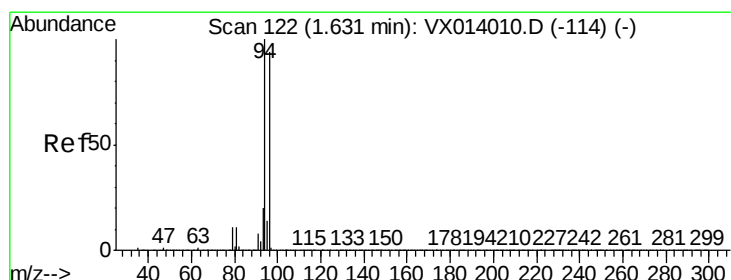
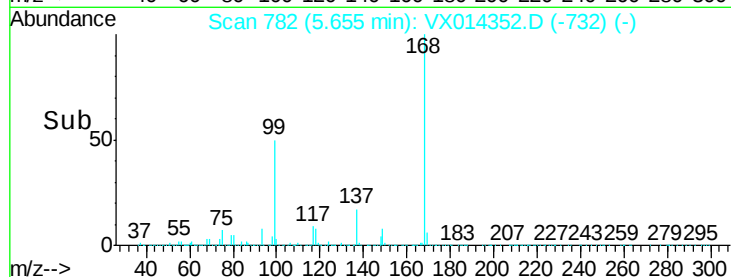
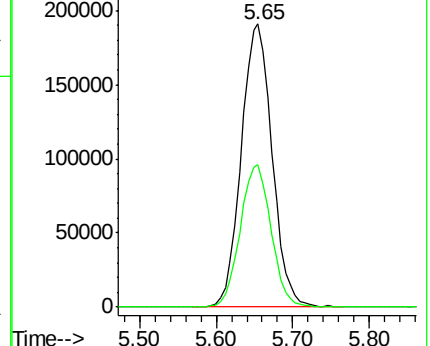
168 100

99 50.0 40.3 60.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: 0.392 ug/l

RT: 1.64 min Scan# 124

Delta R.T. 0.01 min

Lab File: VX014352.D

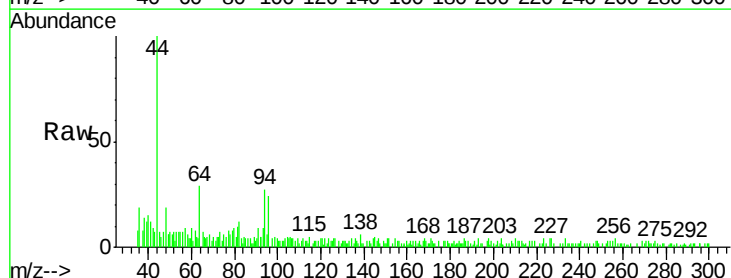
Acq: 30 Dec 2019 14:36

Tgt Ion: 94 Resp: 1880

Ion Ratio Lower Upper

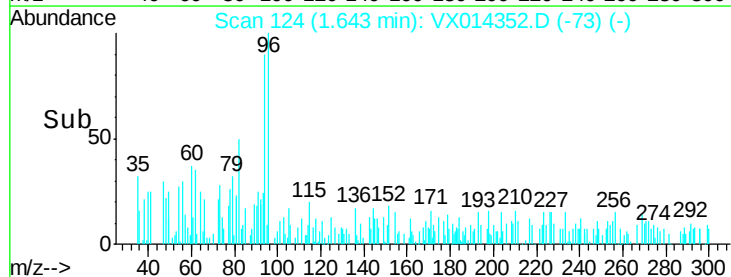
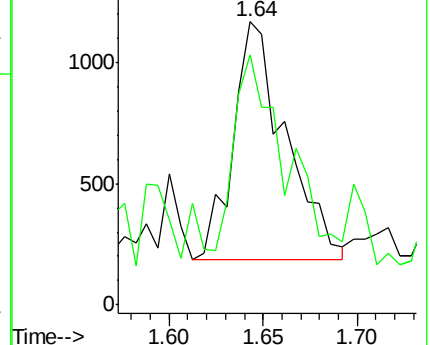
94 100

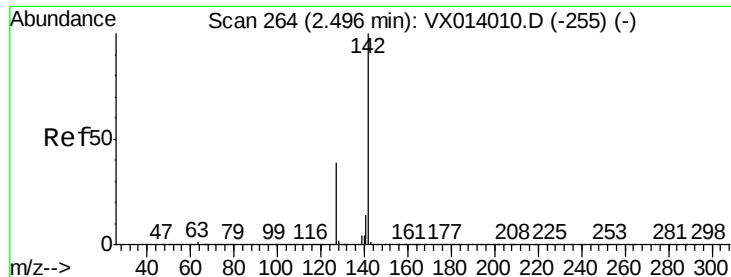
96 78.5 75.2 112.8



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

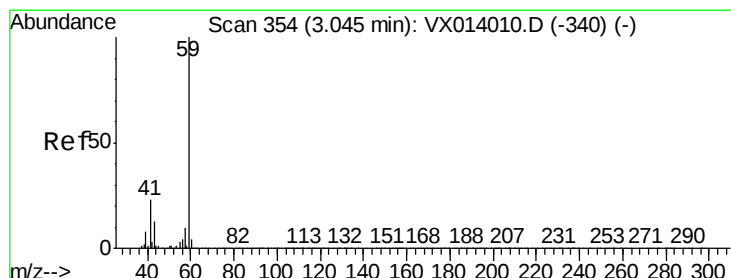
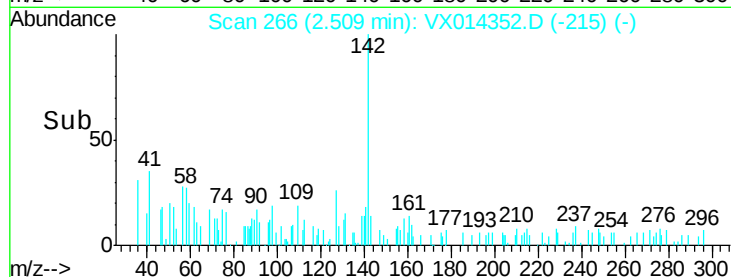
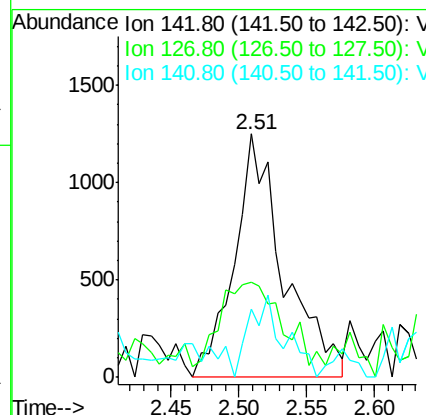
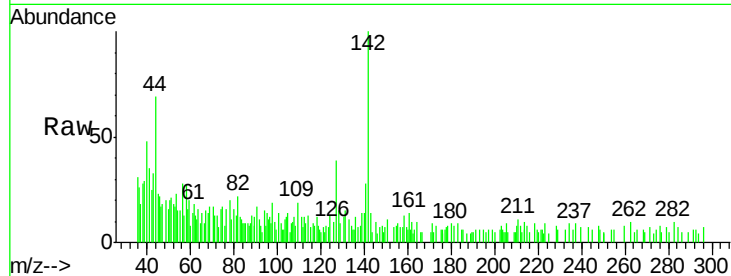




#10
Methvl Iodide
Concen: 3.073 ug/l
RT: 2.51 min Scan# 266
Delta R.T. 0.01 min
Lab File: VX014352.D
Acq: 30 Dec 2019 14:36

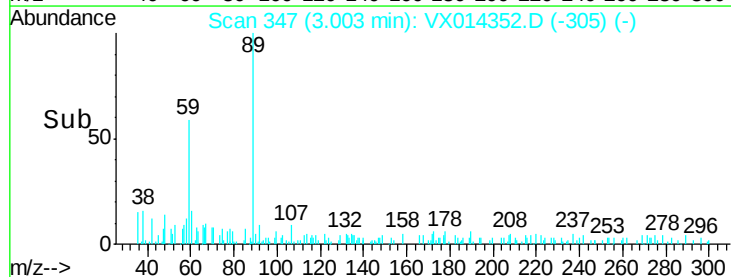
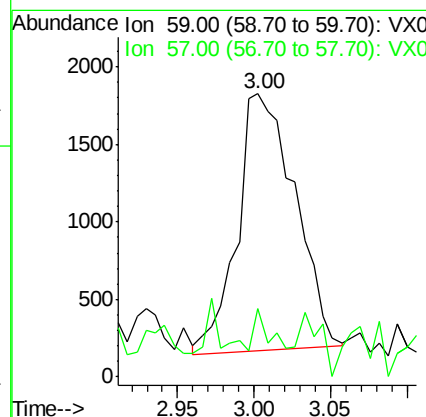
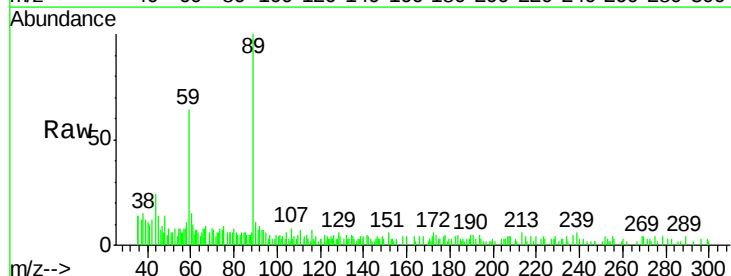
Instrument :
MSVOA_X
ClientSampleId :

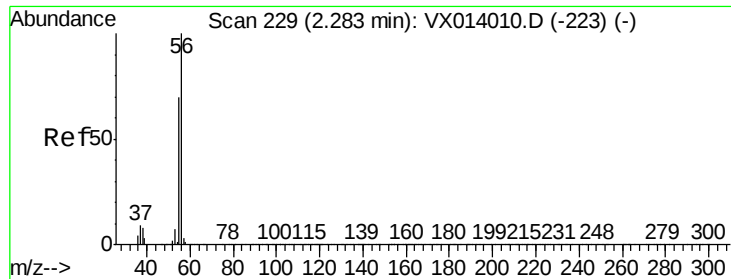
Tot Ion:142 Resp: 3170
Ion Ratio Lower Upper
142 100
127 42.7 31.6 47.4
141 23.4 11.6 17.4#



#11
Tert butyl alcohol
Concen: 3.326 ug/l
RT: 3.00 min Scan# 347
Delta R.T. -0.04 min
Lab File: VX014352.D
Acq: 30 Dec 2019 14:36

Tgt Ion: 59 Resp: 4342
Ion Ratio Lower Upper
59 100
57 3.7 8.4 12.6#

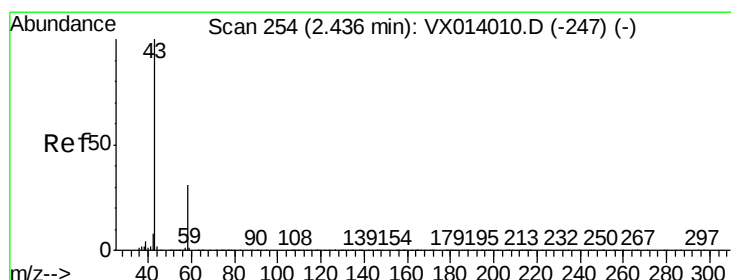
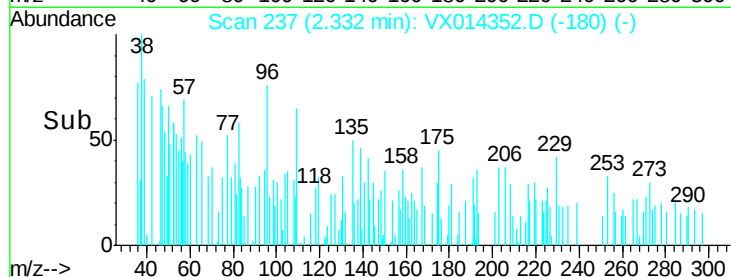
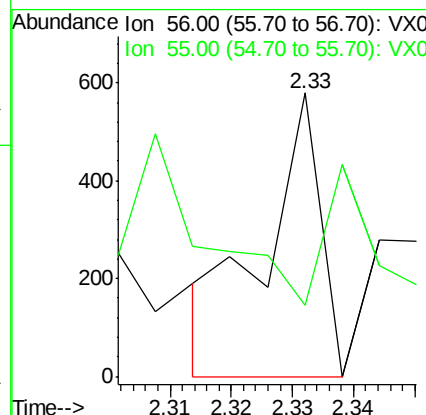
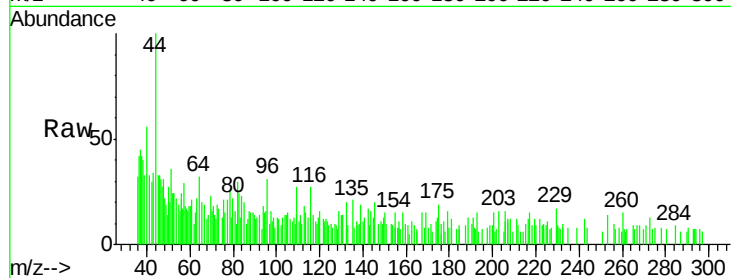




#13
Acrolein
Concen: 0.493 ug/l
RT: 2.33 min Scan# 237
Delta R.T. 0.05 min
Lab File: VX014352.D
Acq: 30 Dec 2019 14:36

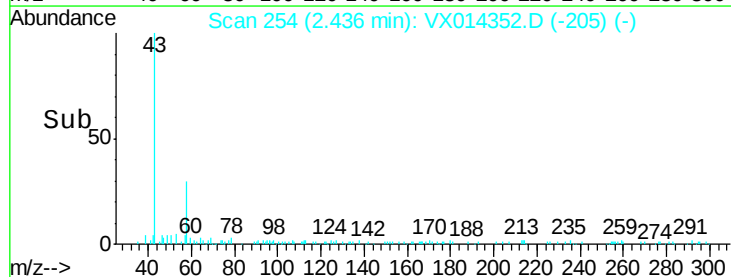
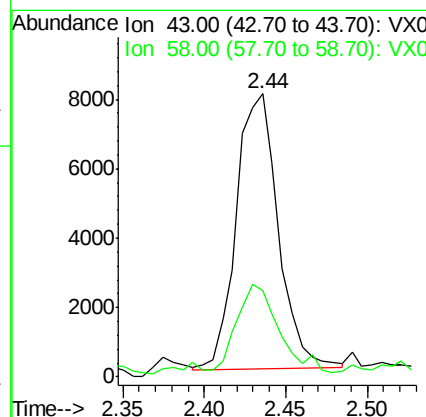
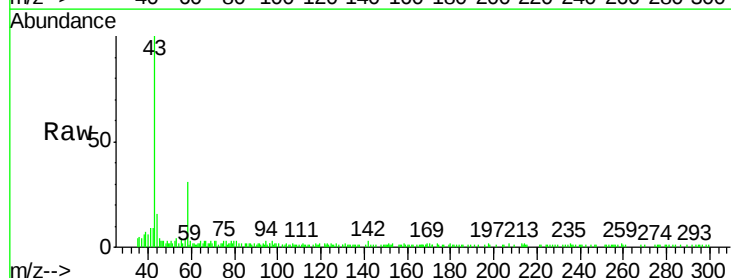
Instrument :
MSVOA_X
ClientSampleId :

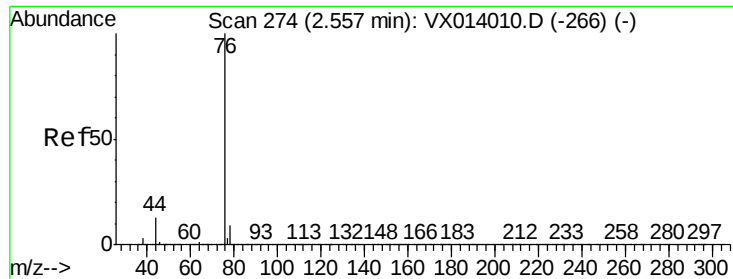
Tot Ion: 56 Resp: 368
Ion Ratio Lower Upper
56 100
55 105.2 56.9 85.3#



#16
Acetone
Concen: 3.624 ug/l
RT: 2.44 min Scan# 254
Delta R.T. 0.00 min
Lab File: VX014352.D
Acq: 30 Dec 2019 14:36

Tgt Ion: 43 Resp: 14214
Ion Ratio Lower Upper
43 100
58 29.5 24.9 37.3

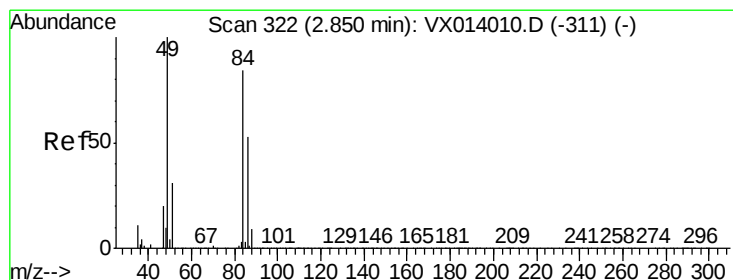
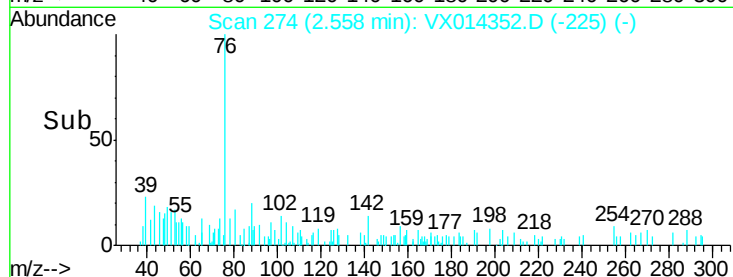
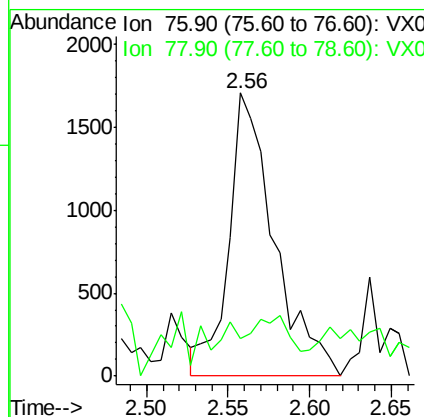
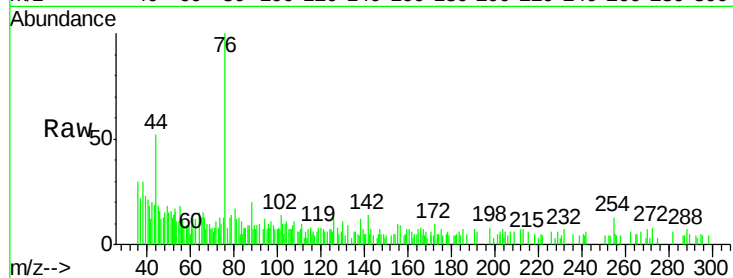




#17
Carbon Disulfide
Concen: 0.979 ug/l
RT: 2.56 min Scan# 274
Delta R.T. 0.00 min
Lab File: VX014352.D
Acq: 30 Dec 2019 14:36

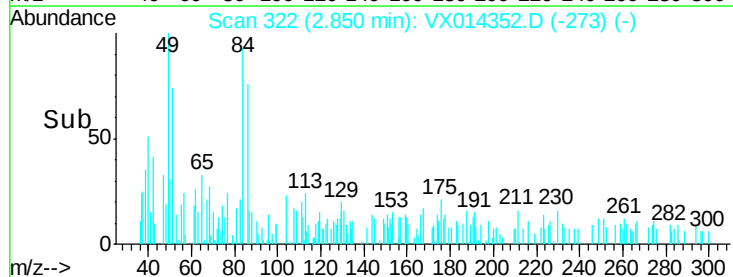
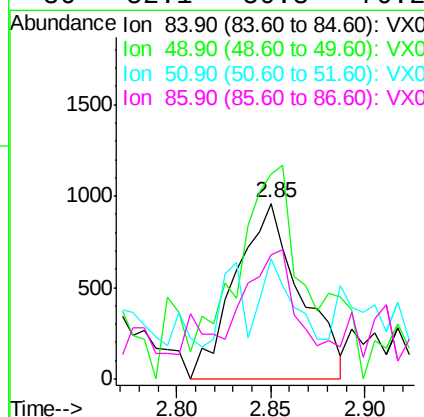
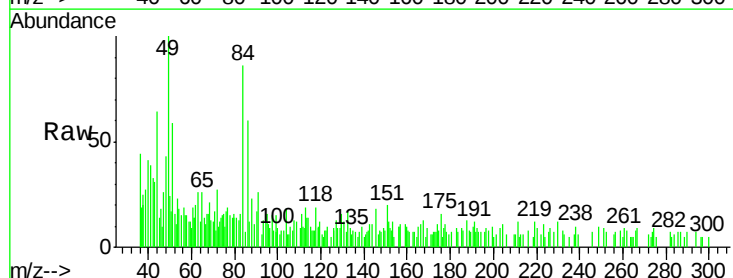
Instrument :
MSVOA_X
ClientSampleId :

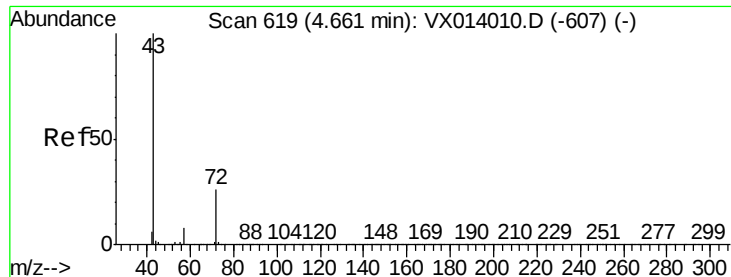
Tot Ion: 76 Resp: 3302
Ion Ratio Lower Upper
76 100
78 9.4 7.2 10.8



#20
Methylene Chloride
Concen: 0.371 ug/l
RT: 2.85 min Scan# 322
Delta R.T. 0.00 min
Lab File: VX014352.D
Acq: 30 Dec 2019 14:36

Tgt Ion: 84 Resp: 2292
Ion Ratio Lower Upper
84 100
49 101.6 95.8 143.6
51 45.7 29.8 44.8#
86 52.1 50.8 76.2

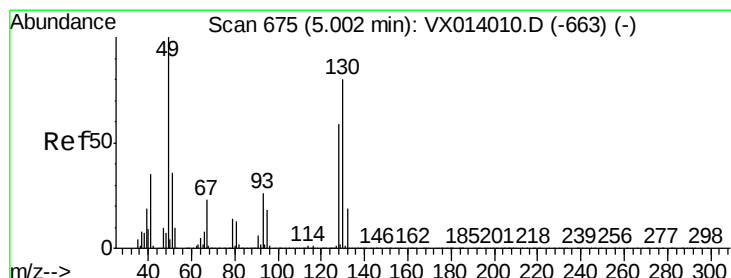
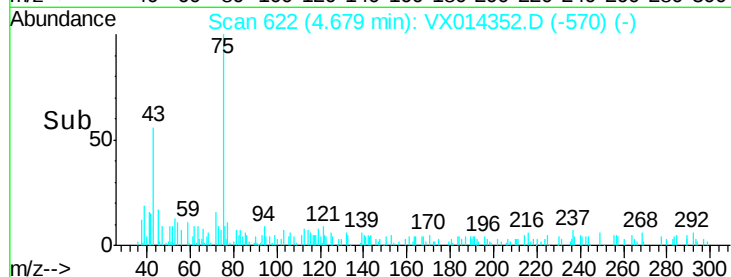
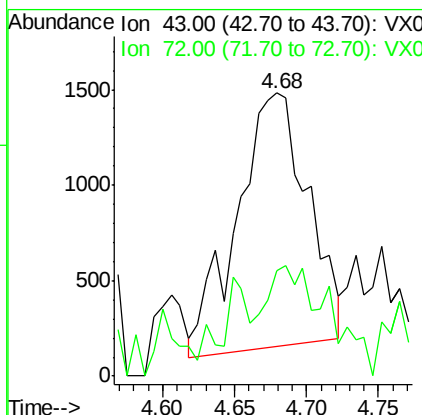
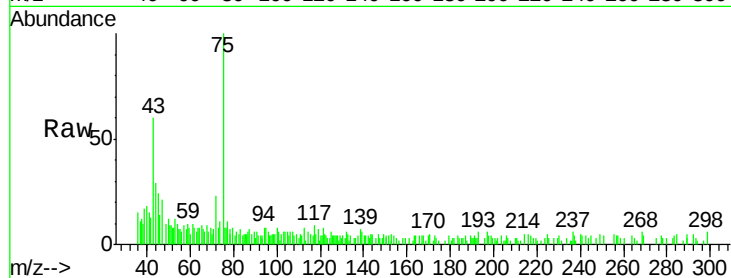




#25
2-Butanone
Concen: 0.946 ug/l
RT: 4.68 min Scan# 622
Delta R.T. 0.02 min
Lab File: VX014352.D
Acq: 30 Dec 2019 14:36

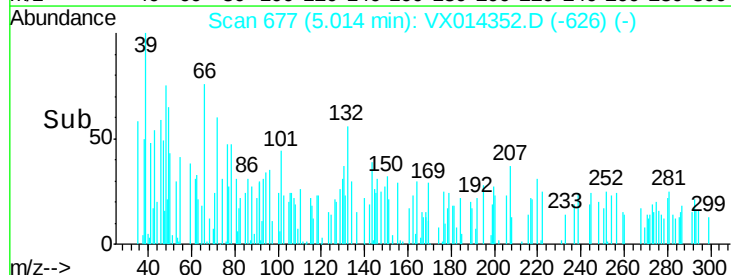
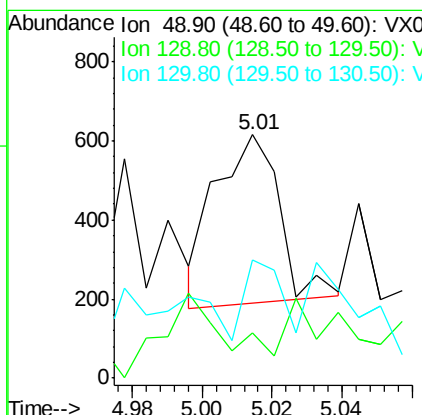
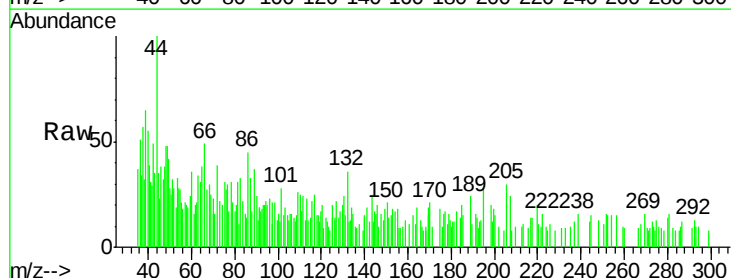
Instrument :
MSVOA_X
ClientSampled :

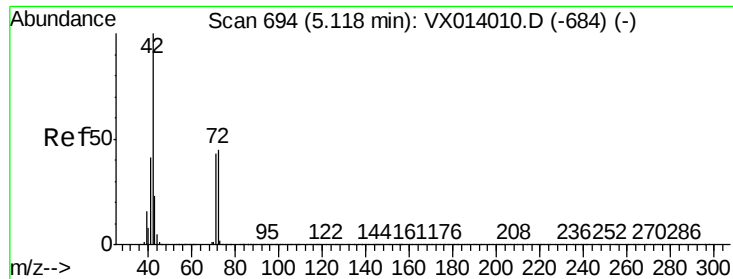
Tot Ion: 43 Resp: 4576
Ion Ratio Lower Upper
43 100
72 30.8 21.0 31.4



#28
Bromochloromethane
Concen: 0.592 ug/l
RT: 5.01 min Scan# 677
Delta R.T. 0.01 min
Lab File: VX014352.D
Acq: 30 Dec 2019 14:36

Tgt Ion: 49 Resp: 544
Ion Ratio Lower Upper
49 100
129 42.5 0.0 5.0#
130 37.9 64.6 97.0#

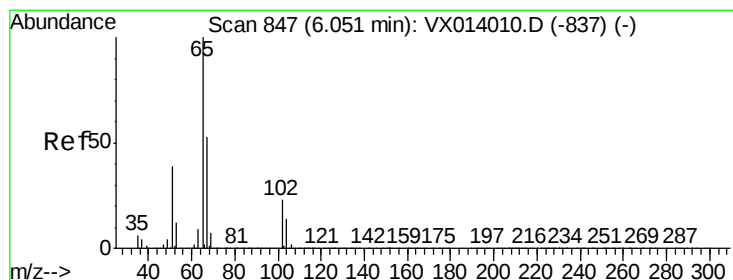
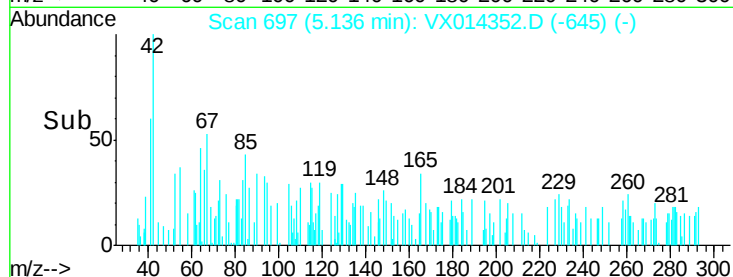
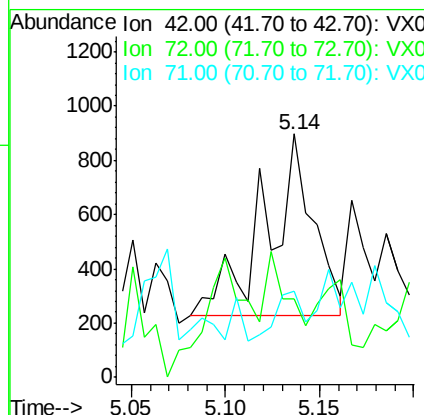
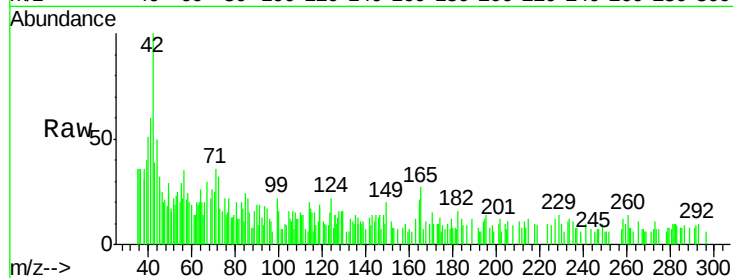




#29
Tetrahydrofuran
Concen: 0.437 ug/l
RT: 5.14 min Scan# 697
Delta R.T. 0.02 min
Lab File: VX014352.D
Acq: 30 Dec 2019 14:36

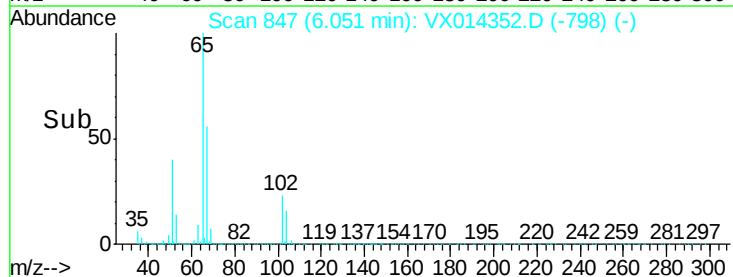
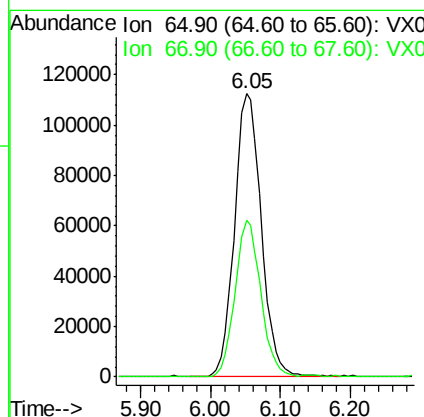
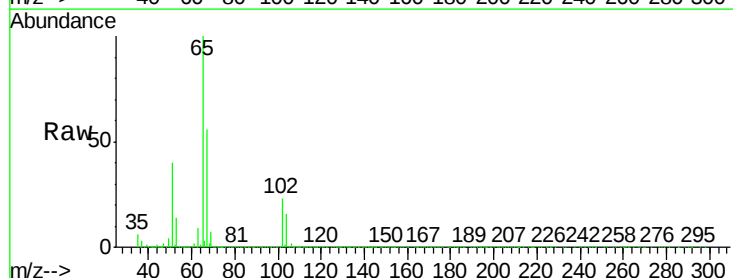
Instrument :
MSVOA_X
ClientSampleId :

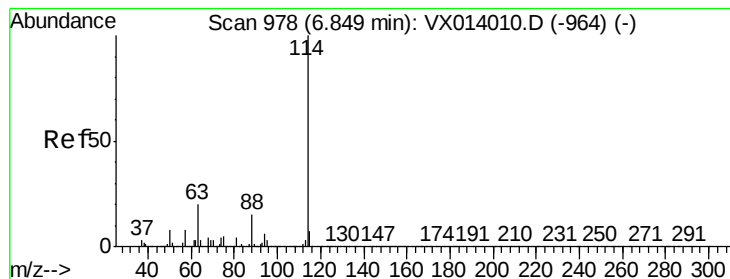
Tot Ion: 42 Resp: 1183
Ion Ratio Lower Upper
42 100
72 33.2 35.8 53.8#
71 12.0 33.6 50.4#



#33
1,2-Dichloroethane-d4
Concen: 49.604 ug/l
RT: 6.05 min Scan# 847
Delta R.T. 0.00 min
Lab File: VX014352.D
Acq: 30 Dec 2019 14:36

Tgt Ion: 65 Resp: 299653
Ion Ratio Lower Upper
65 100
67 52.8 0.0 106.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX014352.D

Acq: 30 Dec 2019 14:36

Instrument :

MSVOA_X

ClientSampleId :

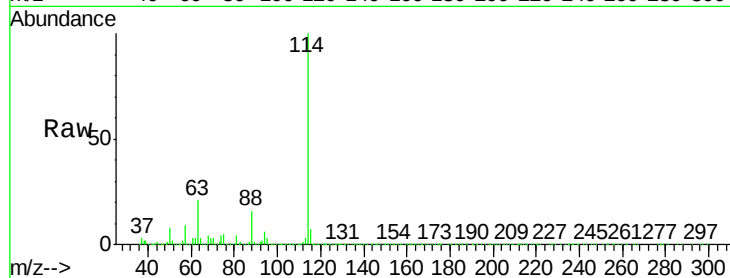
Tot Ion:114 Resp: 822851

Ion Ratio Lower Upper

114 100

63 20.6 0.0 40.8

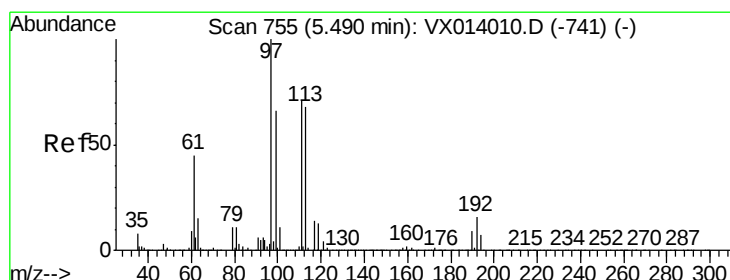
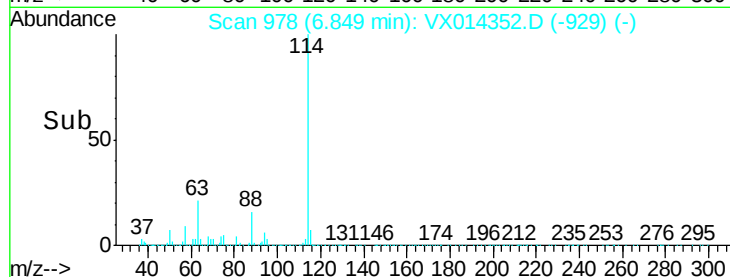
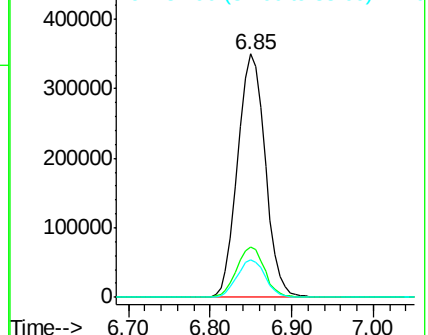
88 15.5 0.0 30.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 49.098 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX014352.D

Acq: 30 Dec 2019 14:36

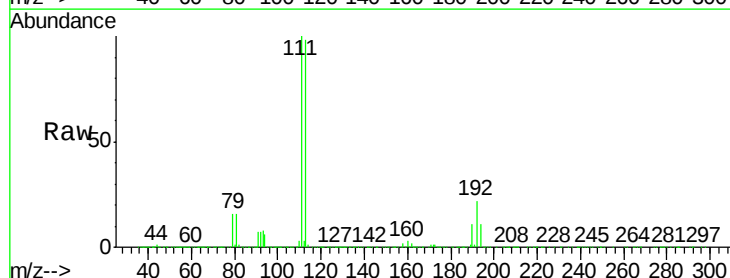
Tgt Ion:113 Resp: 245587

Ion Ratio Lower Upper

113 100

111 102.1 82.0 123.0

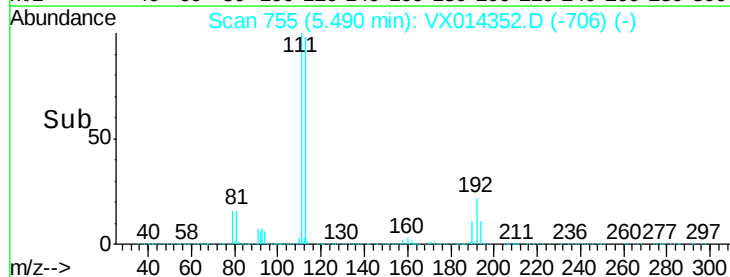
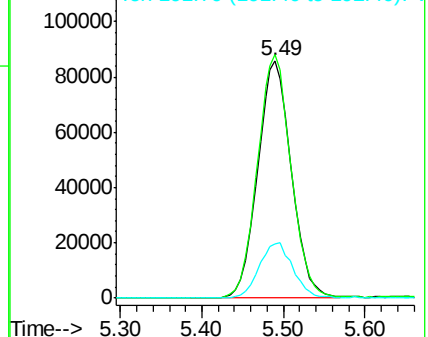
192 23.5 19.3 28.9

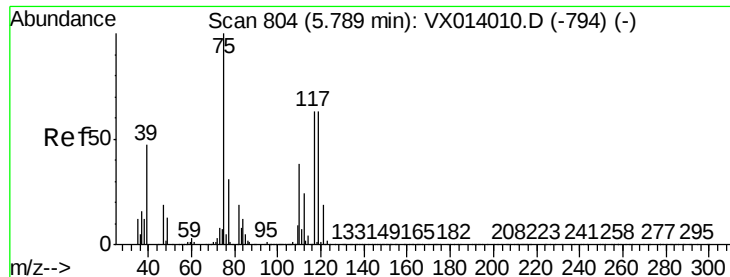


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

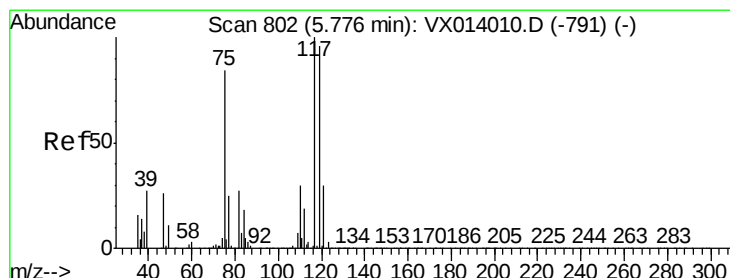
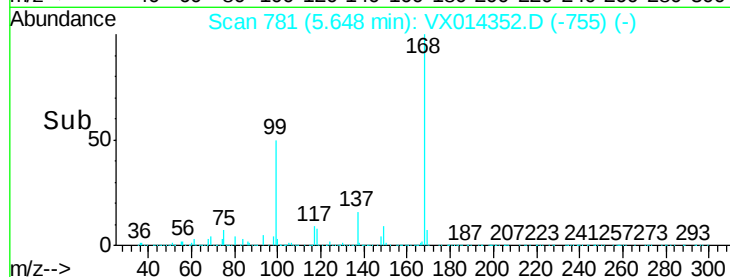
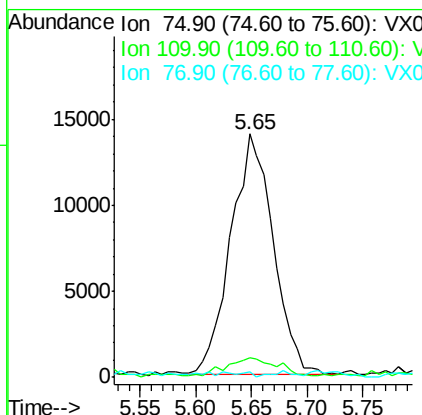
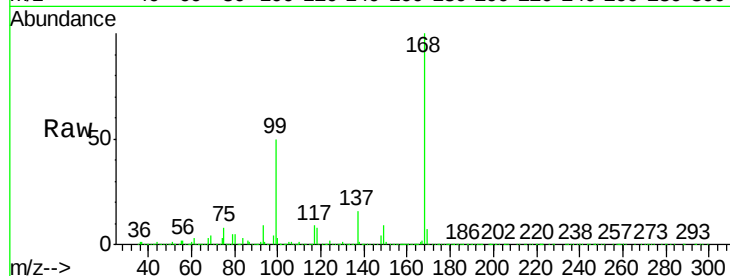




#36
 1,1-Dichloropropene
 Concen: 4.923 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.14 min
 Lab File: VX014352.D
 Acq: 30 Dec 2019 14:36

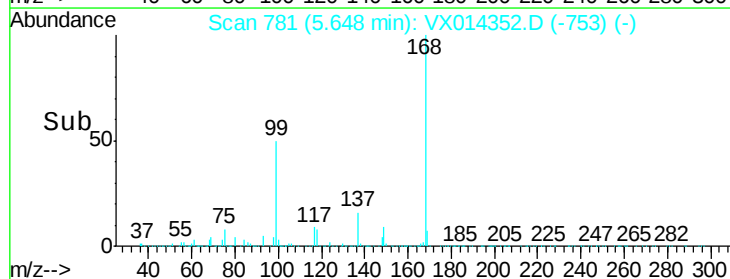
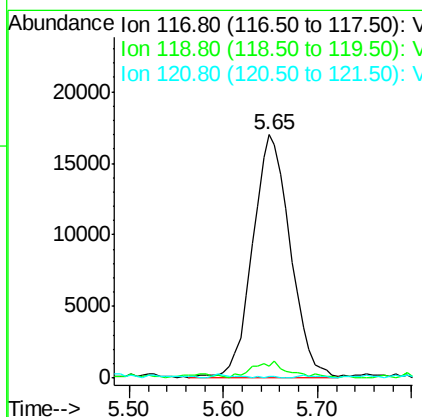
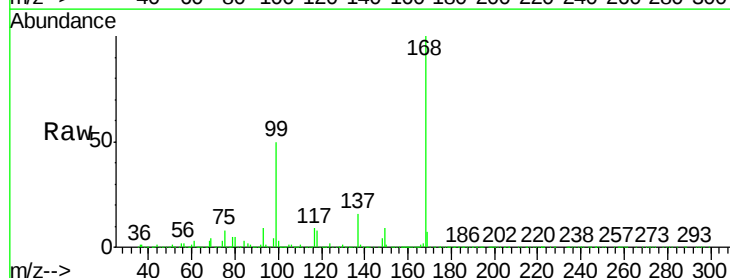
Instrument :
 MSVOA_X
 ClientSampleId :

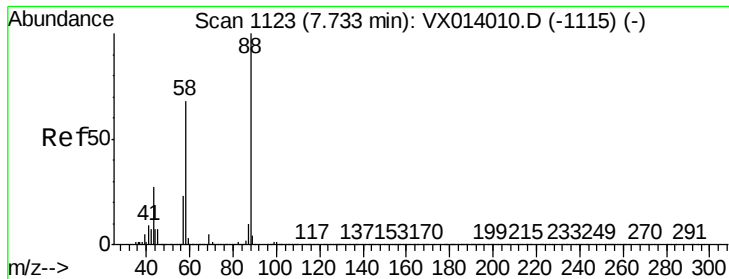
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.8	18.3	54.9#
77	0.0	24.8	37.2#



#38
 Carbon Tetrachloride
 Concen: 6.965 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.13 min
 Lab File: VX014352.D
 Acq: 30 Dec 2019 14:36

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.9	76.2	114.4#
121	1.0	23.6	35.4#

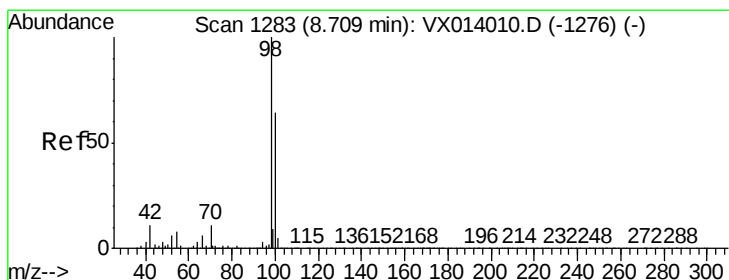
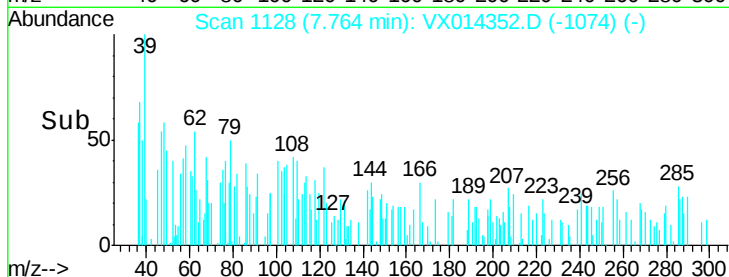
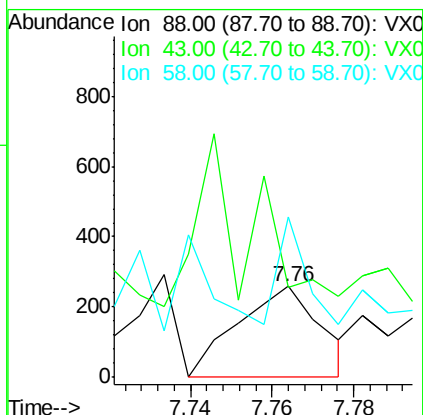
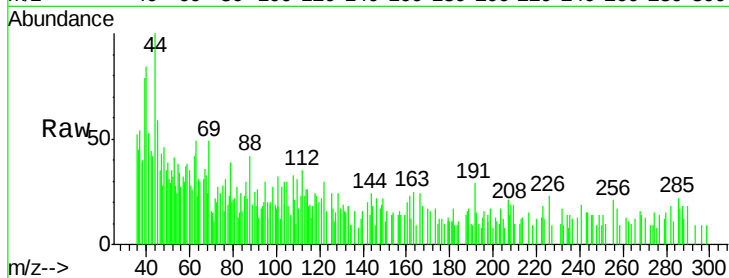




#49
1,4-Dioxane
Concen: 2.669 ug/l
RT: 7.76 min Scan# 1128
Delta R.T. 0.03 min
Lab File: VX014352.D
Acq: 30 Dec 2019 14:36

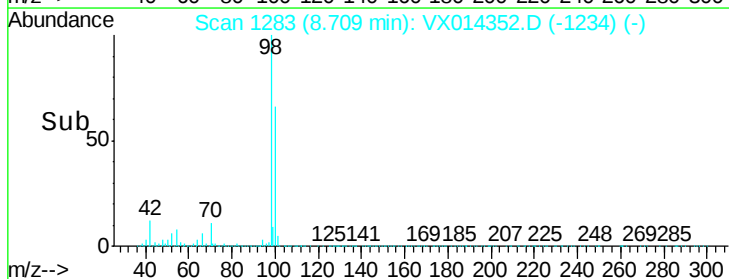
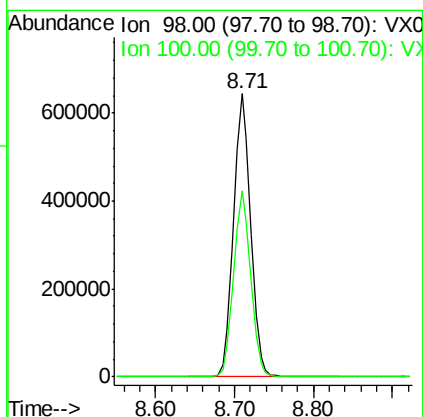
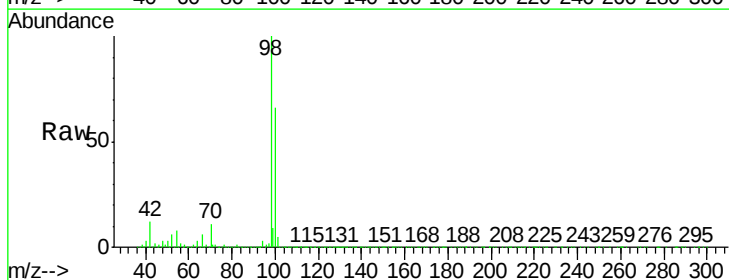
Instrument :
MSVOA_X
ClientSampled :

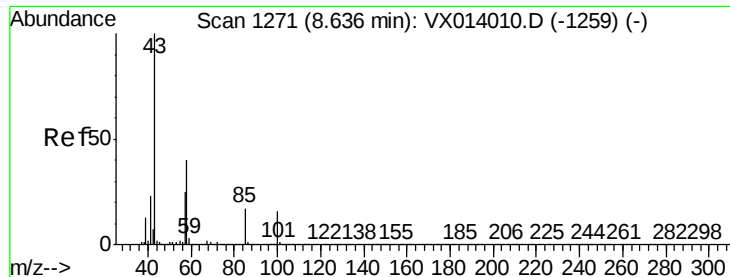
Tot Ion: 88 Resp: 367
Ion Ratio Lower Upper
88 100
43 199.2 26.5 39.7#
58 39.2 56.8 85.2#



#50
Toluene-d8
Concen: 50.218 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. 0.00 min
Lab File: VX014352.D
Acq: 30 Dec 2019 14:36

Tgt Ion: 98 Resp: 977944
Ion Ratio Lower Upper
98 100
100 65.5 52.9 79.3





#51

4-Methyl-2-Pentanone

Concen: 0.494 ug/l

RT: 8.64 min Scan# 1271

Delta R.T. 0.00 min

Lab File: VX014352.D

Acq: 30 Dec 2019 14:36

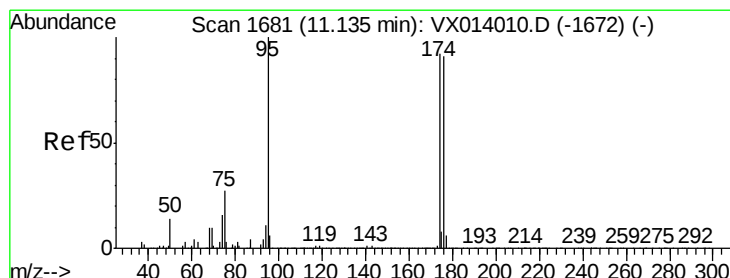
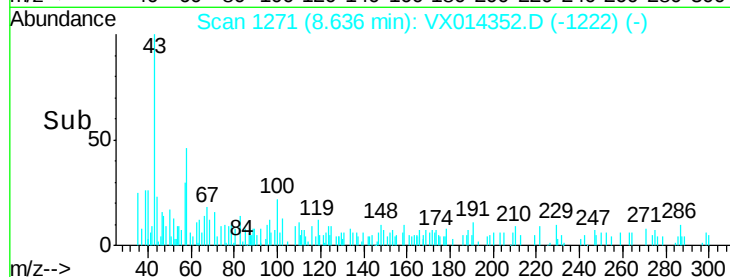
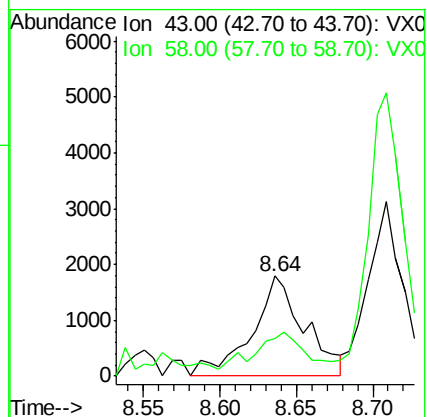
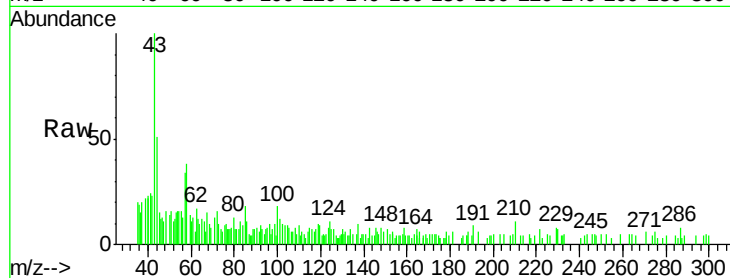
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 43 Resp: 4284

Ion Ratio Lower Upper

43 100

58 32.4 32.2 48.2



#62

4-Bromofluorobenzene

Concen: 45.605 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.01 min

Lab File: VX014352.D

Acq: 30 Dec 2019 14:36

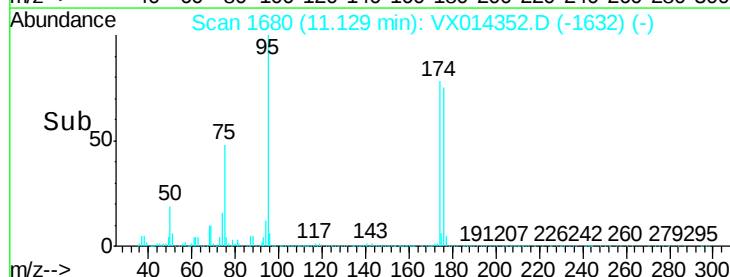
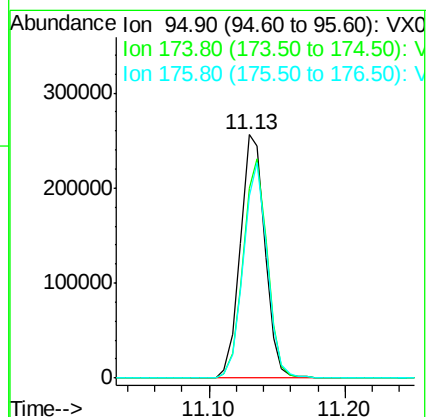
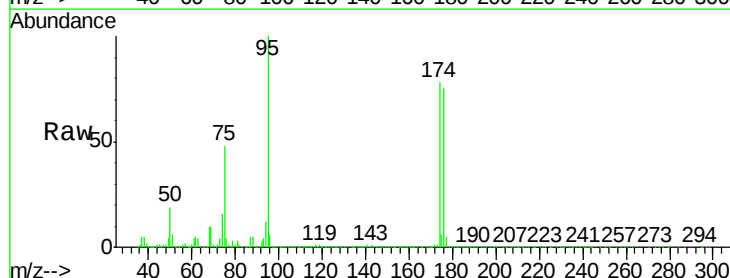
Tgt Ion: 95 Resp: 324645

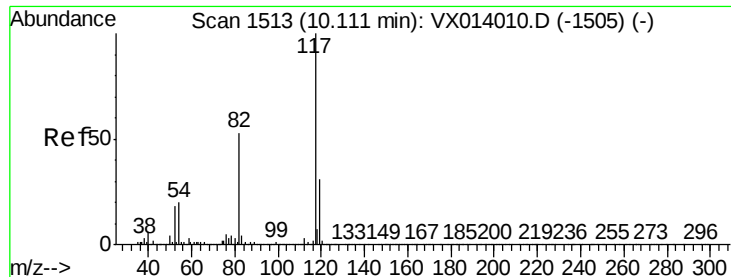
Ion Ratio Lower Upper

95 100

174 88.2 0.0 175.8

176 85.9 0.0 173.0

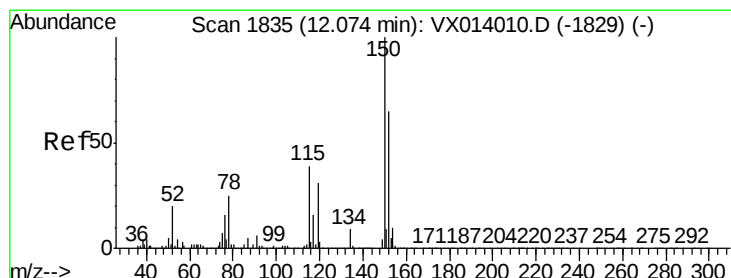
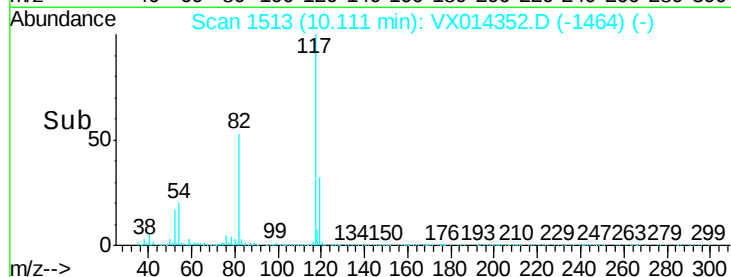
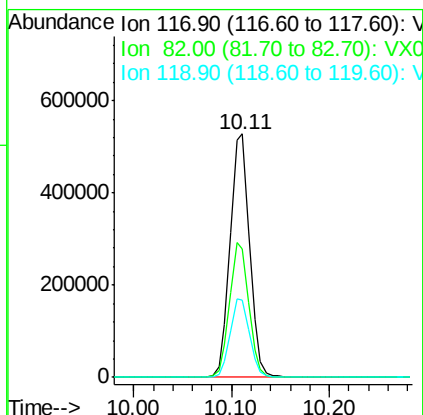
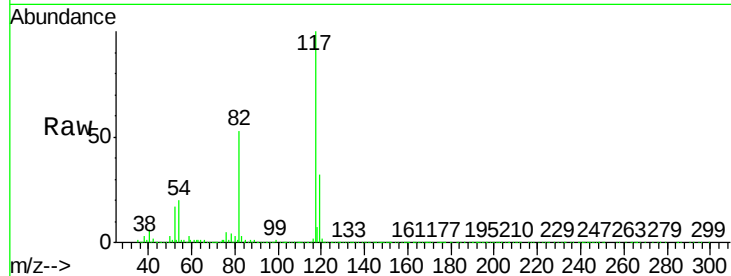




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VX014352.D
Acq: 30 Dec 2019 14:36

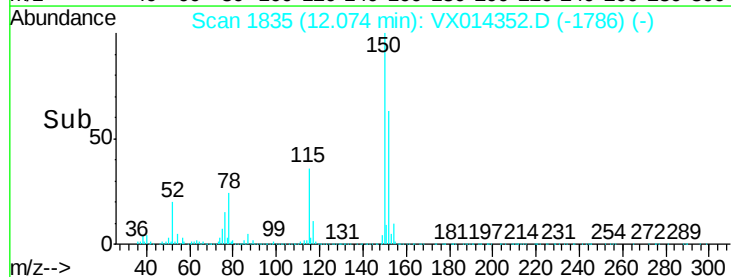
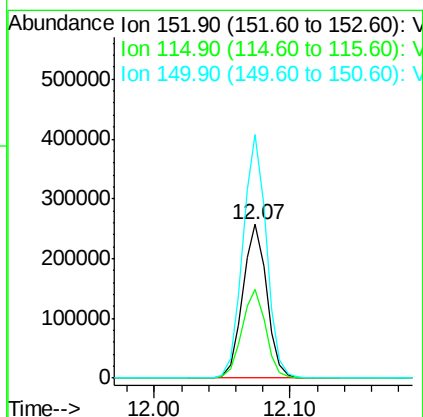
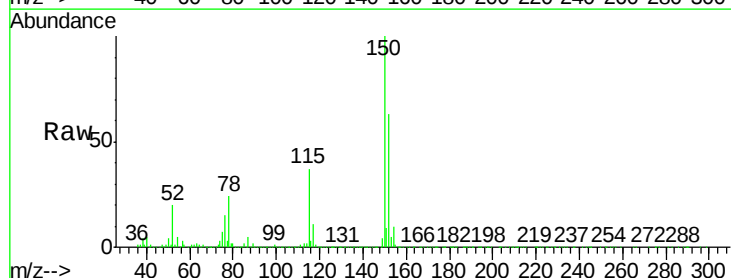
Instrument :
MSVOA_X
ClientSampleId :

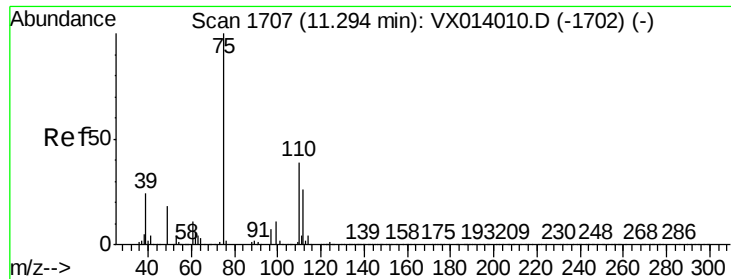
Tot Ion:117 Resp: 732701
Ion Ratio Lower Upper
117 100
82 52.6 42.2 63.4
119 31.9 25.1 37.7



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. 0.00 min
Lab File: VX014352.D
Acq: 30 Dec 2019 14:36

Tgt Ion:152 Resp: 316774
Ion Ratio Lower Upper
152 100
115 56.3 38.3 114.9
150 155.3 0.0 345.4





#76

1,2,3-Trichloropropane

Concen: 22.723 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX014352.D

Acq: 30 Dec 2019 14:36

Instrument :

MSVOA_X

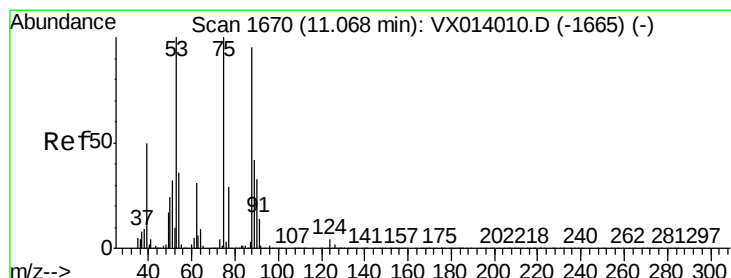
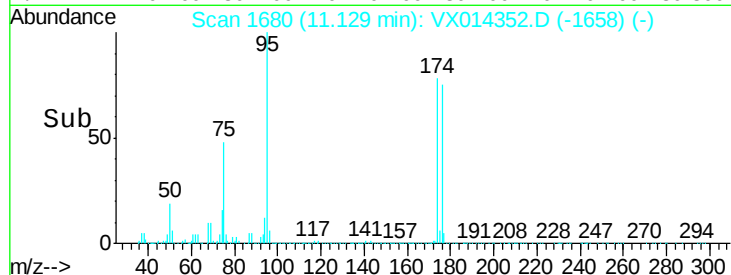
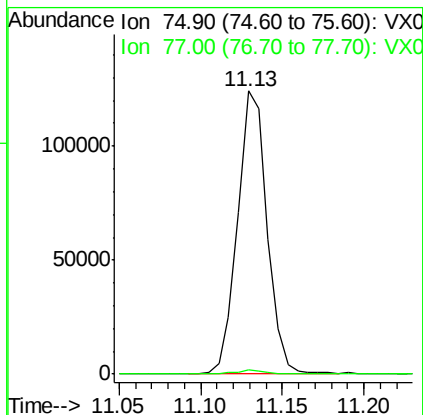
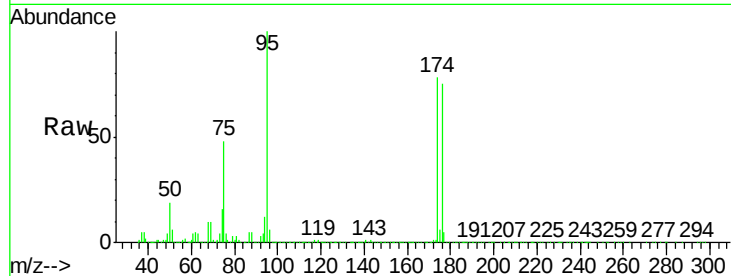
ClientSampleId :

Tot Ion: 75 Resp: 156268

Ion Ratio Lower Upper

75 100

77 1.5 19.3 57.8#



#81

trans-1,4-Dichloro-2-butene

Concen: 64.136 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX014352.D

Acq: 30 Dec 2019 14:36

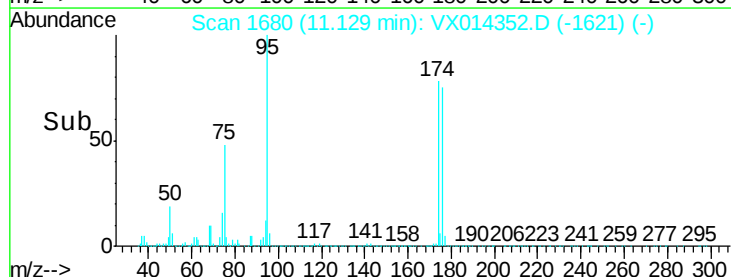
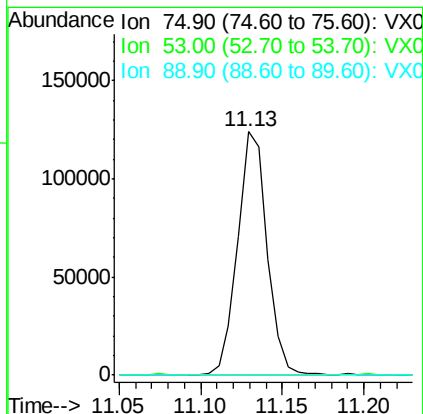
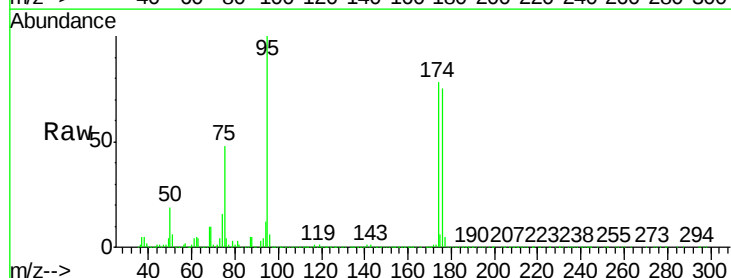
Tgt Ion: 75 Resp: 156268

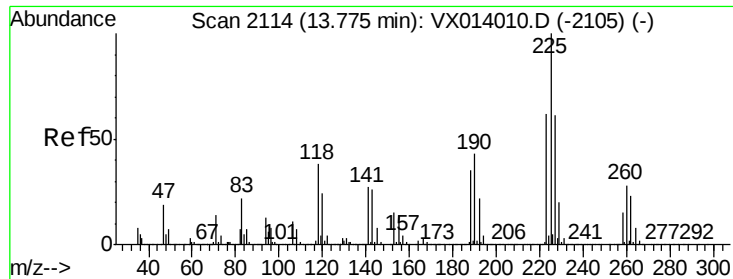
Ion Ratio Lower Upper

75 100

53 0.3 76.7 115.1#

89 0.3 34.6 51.8#





#94

Hexachlorobutadiene

Concen: 0.245 ug/l

RT: 13.78 min Scan# 2114

Delta R.T. 0.00 min

Lab File: VX014352.D

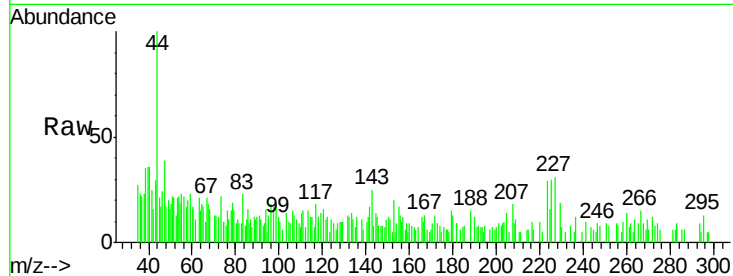
Acq: 30 Dec 2019 14:36

Instrument :

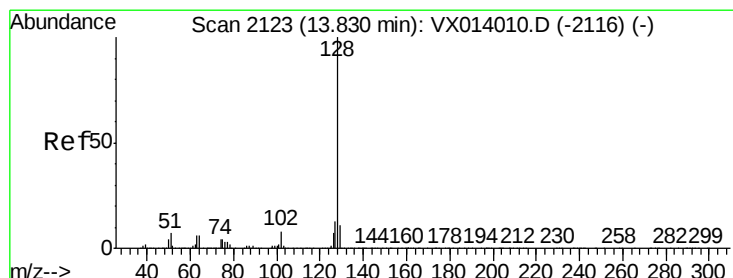
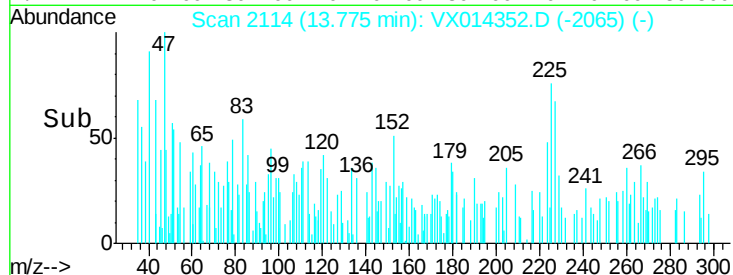
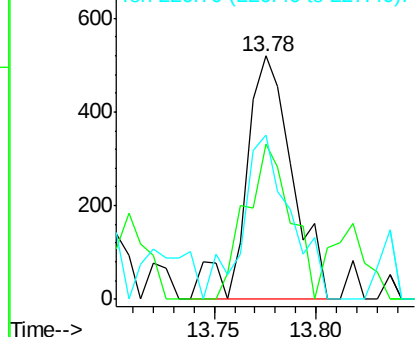
MSVOA_X

ClientSampled :

Tot Ion:225	Resp:	827
Ion	Ratio	Lower Upper
225	100	
223	61.1	30.9 92.5
227	69.0	30.9 92.7



Abundance Ion 224.70 (224.40 to 225.40): V
Ion 222.70 (222.40 to 223.40): V
Ion 226.70 (226.40 to 227.40): V



#95

Naphthalene

Concen: 0.213 ug/l

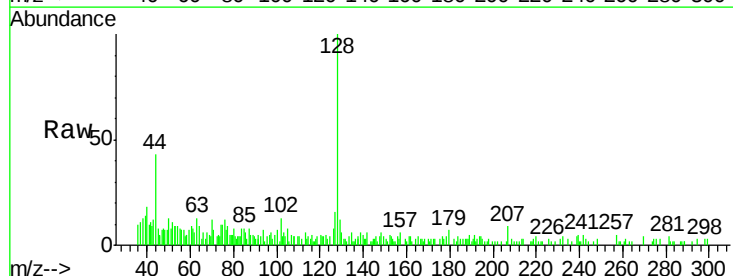
RT: 13.83 min Scan# 2123

Delta R.T. 0.00 min

Lab File: VX014352.D

Acq: 30 Dec 2019 14:36

Tgt Ion:128	Resp:	4397
Ion	Ratio	Lower Upper
128	100	
127	12.6	10.2 15.4
129	17.5	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

