

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX011720\
 Data File : VX014645.D
 Acq On : 17 Jan 2020 11:13
 Operator : JC/SP
 Sample : VX0117WBL01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jan 18 05:23:28 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	5.00	128	75294	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	413842	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	368387	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.05	65	161304	30.48	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	101.60%
60) 4-Bromofluorobenzene	11.13	95	161313	27.36	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	91.20%
63) Toluene-d8	8.71	98	494230	29.70	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.00%

Target Compounds

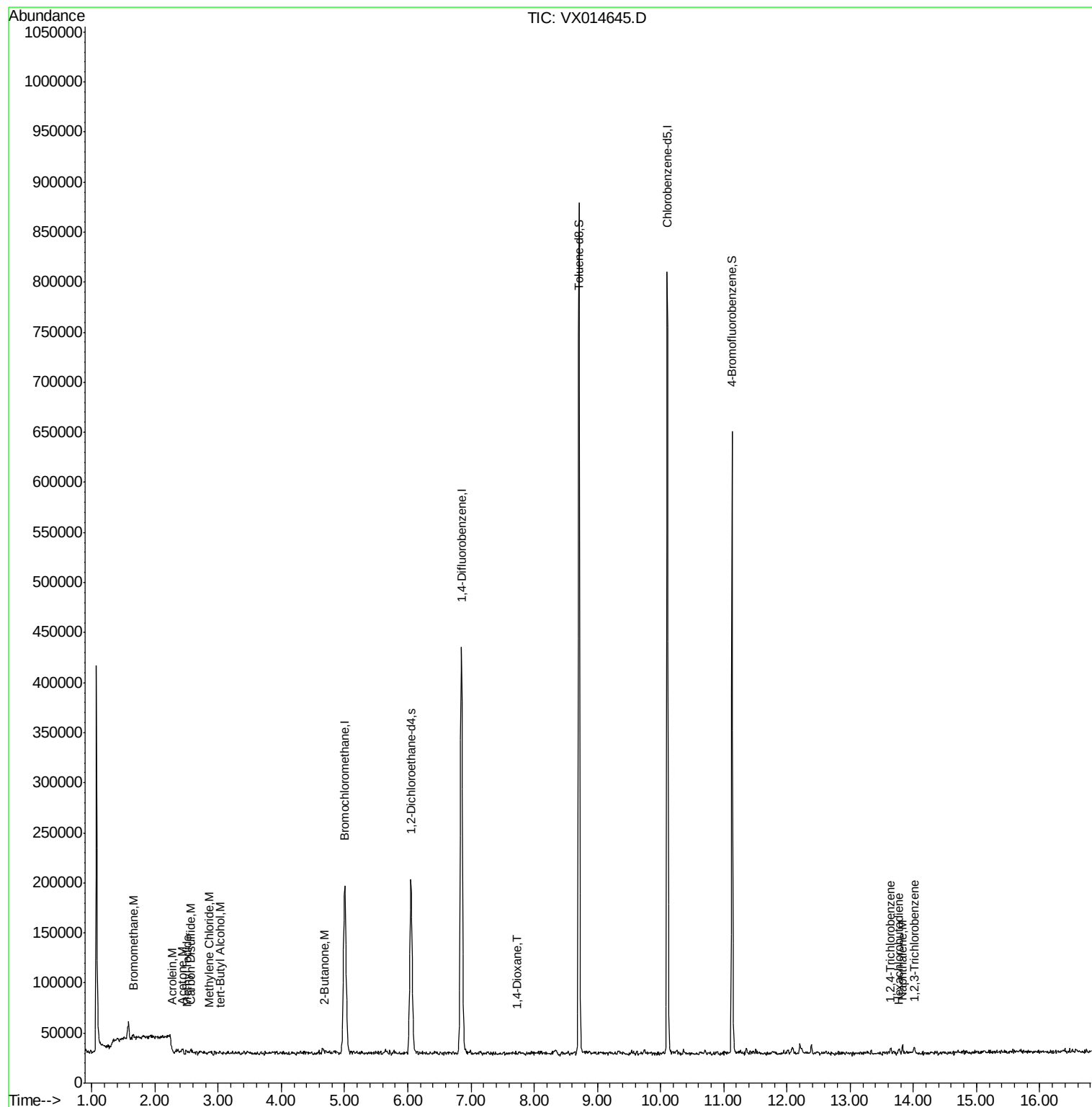
					Ovalue
5) Bromomethane	1.66	94	1980	0.496 ug/l	93
11) Methyl Iodide	2.51	142	1760	0.315 ug/l #	77
13) Acrolein	2.28	56	787	0.995 ug/l	92
15) Acetone	2.44	58	1477	1.710 ug/l	93
16) Carbon Disulfide	2.56	76	3697	0.323 ug/l	95
18) Methylene Chloride	2.85	84	1128	0.231 ug/l #	58
23) tert-Butyl Alcohol	3.04	59	339	0.318 ug/l #	1
30) 2-Butanone	4.68	43	1232	0.320 ug/l #	66
45) 1,4-Dioxane	7.73	88	74	0.659 ug/l #	18
89) 1,2,4-Trichlorobenzene	13.63	180	1743	0.272 ug/l #	82
90) Hexachlorobutadiene	13.78	225	866	0.270 ug/l	83
91) Naphthalene	13.83	128	4421	0.228 ug/l #	93
92) 1,2,3-Trichlorobenzene	14.01	180	1788	0.274 ug/l	86

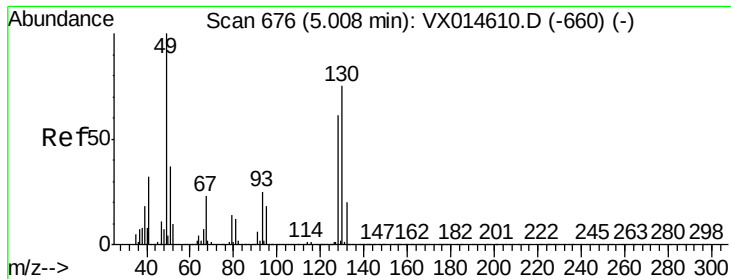
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :
MSVOA_X
ClientSampleId :

Quant Time: Jan 18 05:23:28 2020
Quant Method : Z:\V0ASRV\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





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 5.00 min Scan# 675

Delta R.T. 0.00 min

Lab File: VX014645.D

Acq: 17 Jan 2020 11:13

Instrument :
MSVOA_X
ClientSampled :

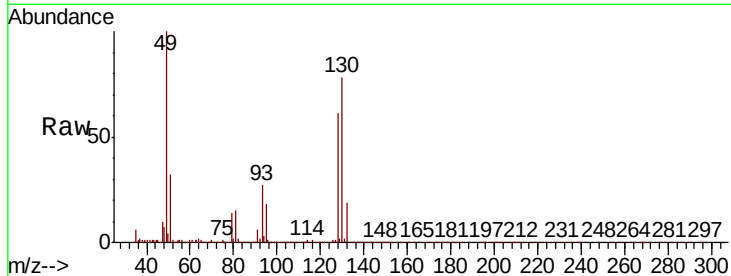
Tot Ion:128 Resp: 75294

Ion Ratio Lower Upper

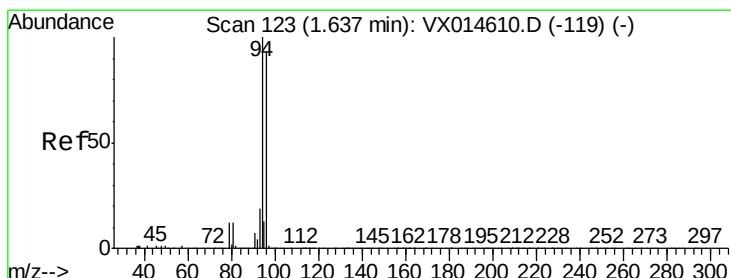
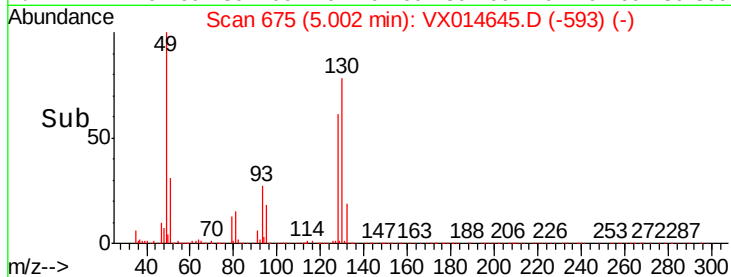
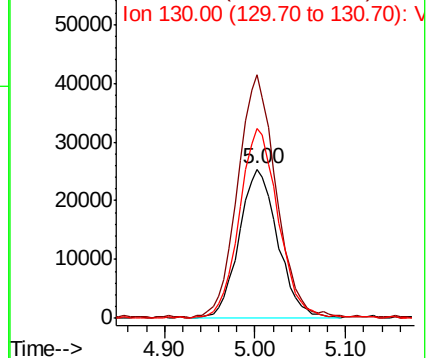
128 100

49 160.4 0.0 405.0

130 127.8 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: 0.496 ug/l

RT: 1.66 min Scan# 127

Delta R.T. 0.03 min

Lab File: VX014645.D

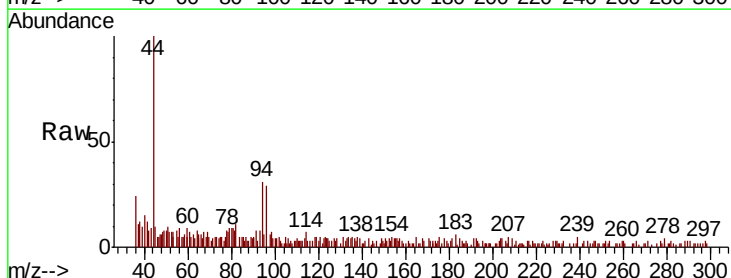
Acq: 17 Jan 2020 11:13

Tgt Ion: 94 Resp: 1980

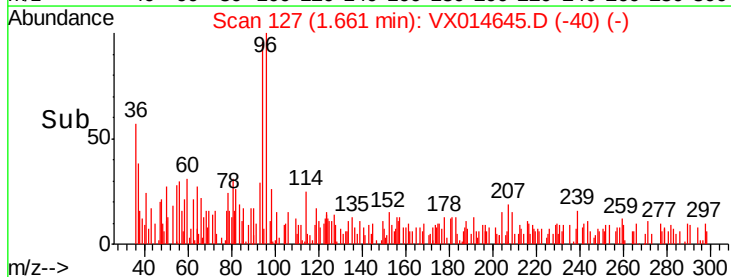
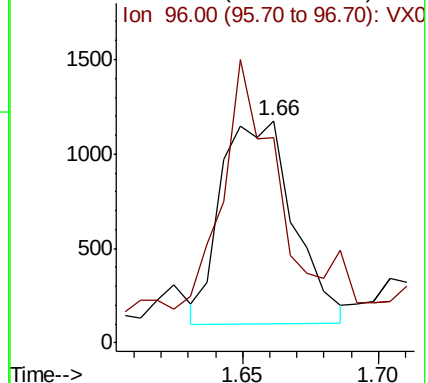
Ion Ratio Lower Upper

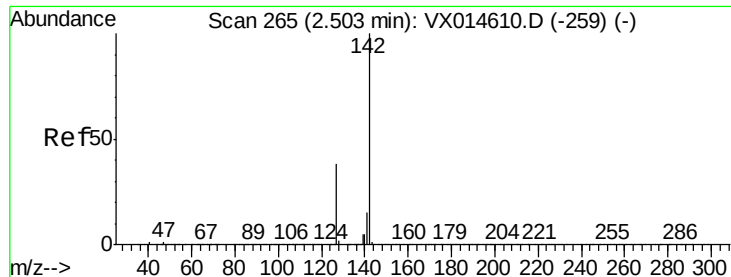
94 100

96 86.1 74.4 111.6



Abundance Ion 94.00 (93.70 to 94.70): VX0
Ion 96.00 (95.70 to 96.70): VX0

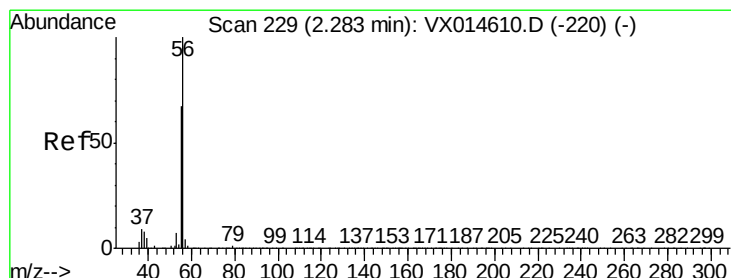
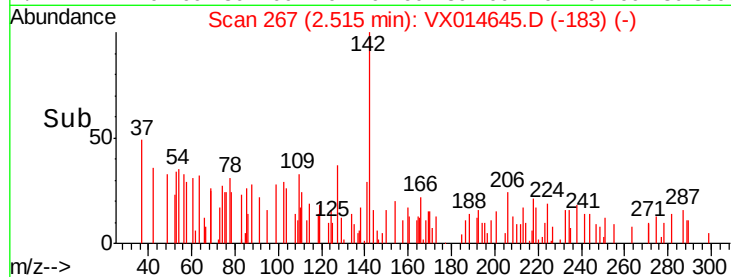
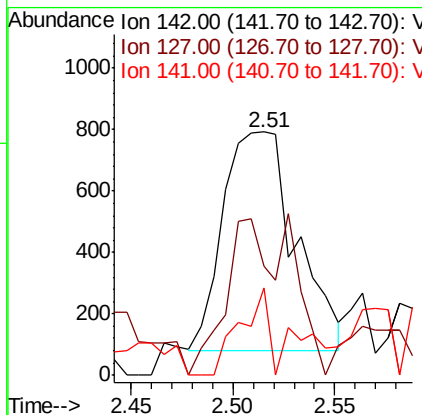
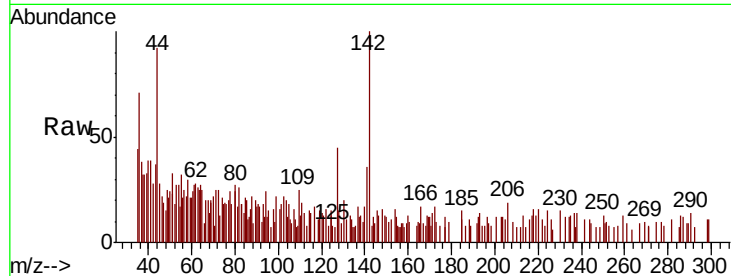




#11
Methvl Iodide
Concen: 0.315 ug/l
RT: 2.51 min Scan# 267
Delta R.T. 0.01 min
Lab File: VX014645.D
Acq: 17 Jan 2020 11:13

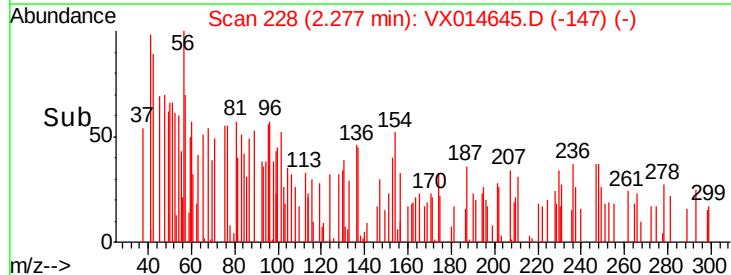
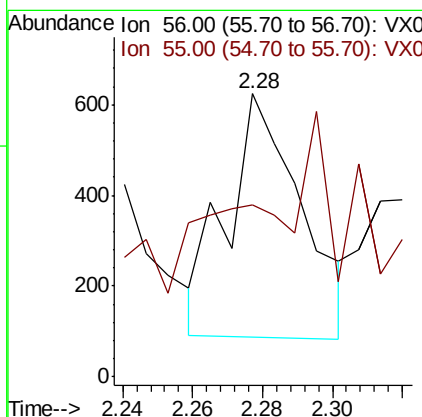
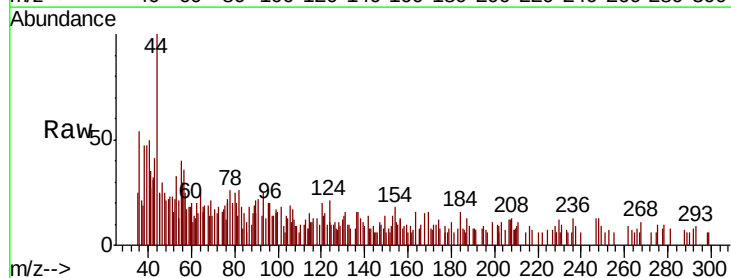
Instrument :
MSVOA_X
ClientSampled :

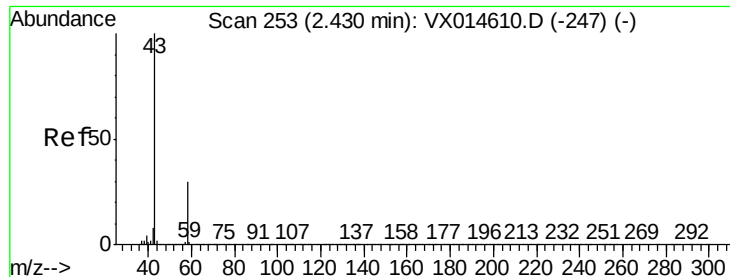
Tot Ion:142 Resp: 1760
Ion Ratio Lower Upper
142 100
127 46.0 19.5 58.5
141 36.0 7.0 20.9#



#13
Acrolein
Concen: 0.995 ug/l
RT: 2.28 min Scan# 228
Delta R.T. -0.01 min
Lab File: VX014645.D
Acq: 17 Jan 2020 11:13

Tgt Ion: 56 Resp: 787
Ion Ratio Lower Upper
56 100
55 61.8 54.9 82.3





#15

Acetone

Concen: 1.710 ug/l

RT: 2.44 min Scan# 254

Delta R.T. 0.00 min

Lab File: VX014645.D

Acq: 17 Jan 2020 11:13

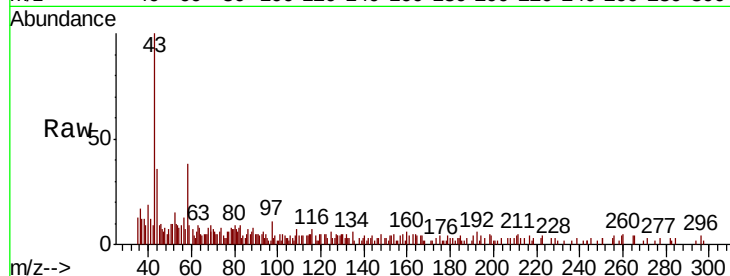
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 58 Resp: 1477

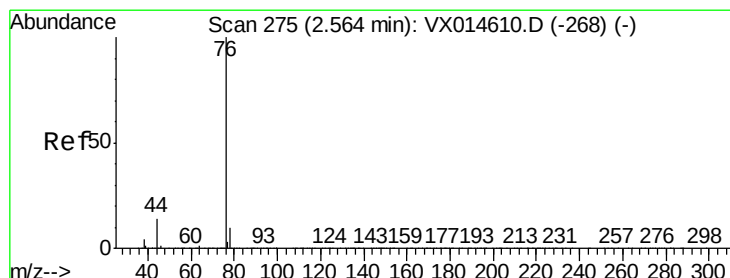
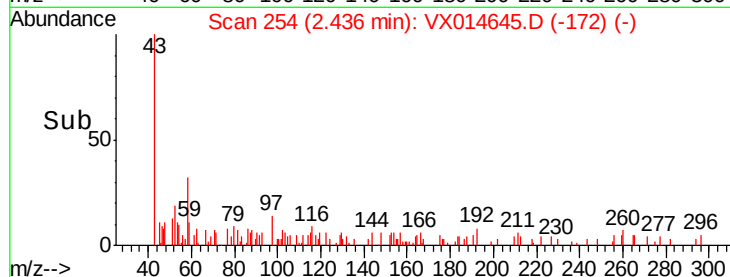
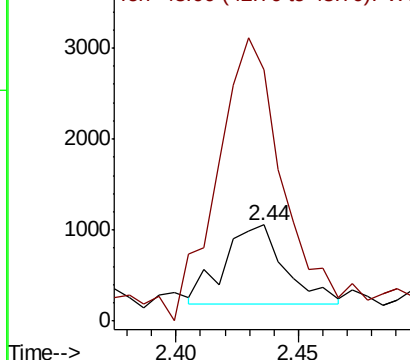
Ion Ratio Lower Upper

58 100

43 309.8 236.3 354.5



Abundance Ion 58.00 (57.70 to 58.70): VX0
Ion 43.00 (42.70 to 43.70): VX0



#16

Carbon Disulfide

Concen: 0.323 ug/l

RT: 2.56 min Scan# 275

Delta R.T. 0.01 min

Lab File: VX014645.D

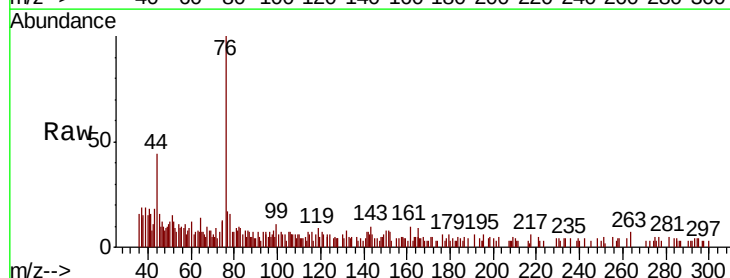
Acq: 17 Jan 2020 11:13

Tgt Ion: 76 Resp: 3697

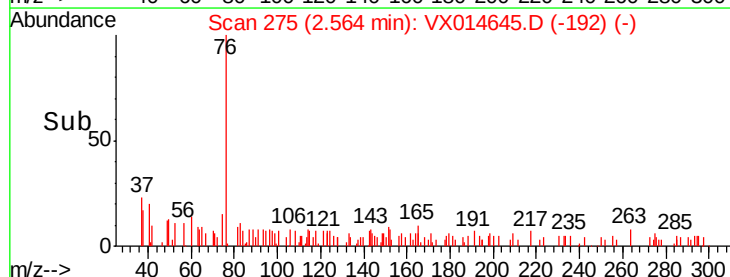
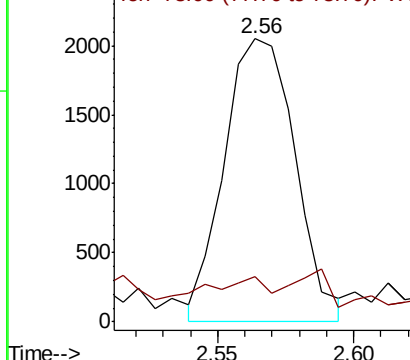
Ion Ratio Lower Upper

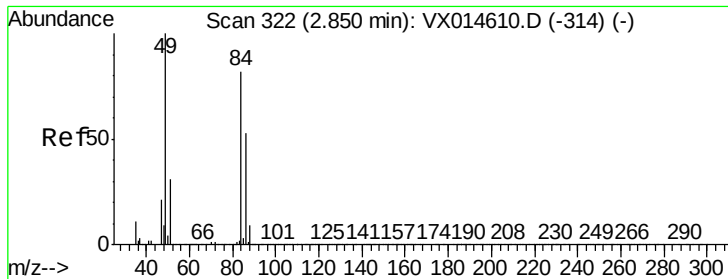
76 100

78 11.7 7.8 11.8



Abundance Ion 76.00 (75.70 to 76.70): VX0
Ion 78.00 (77.70 to 78.70): VX0

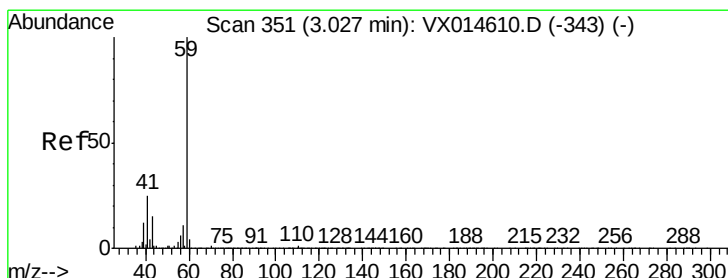
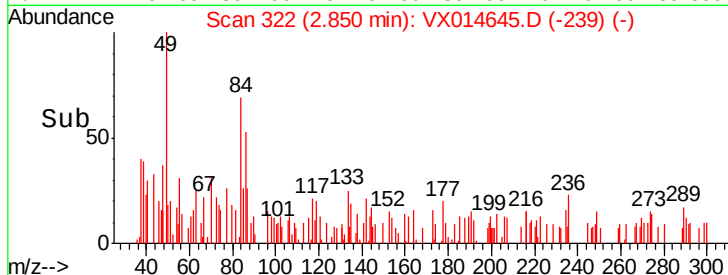
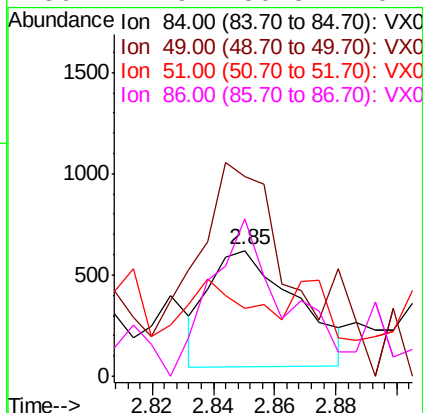
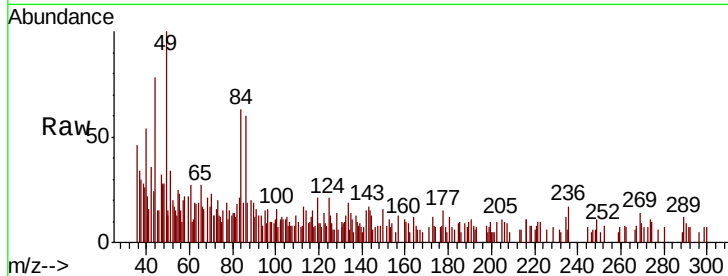




#18
Methylene Chloride
Concen: 0.231 ug/l
RT: 2.85 min Scan# 322
Delta R.T. 0.01 min
Lab File: VX014645.D
Acq: 17 Jan 2020 11:13

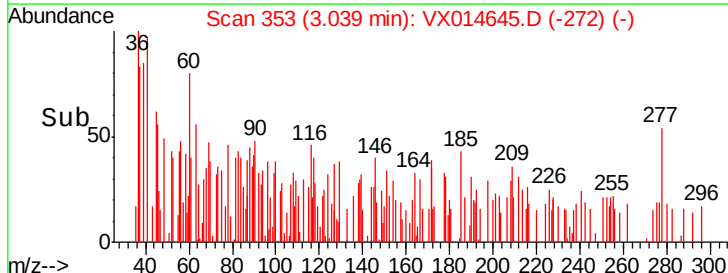
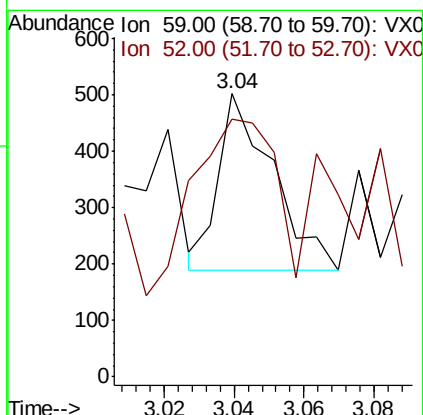
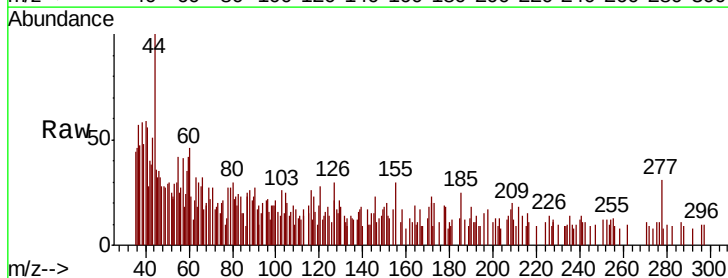
Instrument :
MSVOA_X
ClientSampleId :

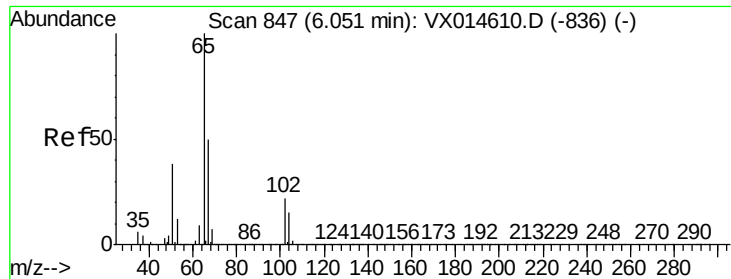
Tot Ion: 84 Resp: 1128
Ion Ratio Lower Upper
84 100
49 121.1 102.2 153.2
51 38.9 31.4 47.0
86 172.9 50.8 76.2#



#23
tert-Butyl Alcohol
Concen: 0.318 ug/l
RT: 3.04 min Scan# 353
Delta R.T. -0.01 min
Lab File: VX014645.D
Acq: 17 Jan 2020 11:13

Tgt Ion: 59 Resp: 339
Ion Ratio Lower Upper
59 100
52 261.1 0.2 0.2#

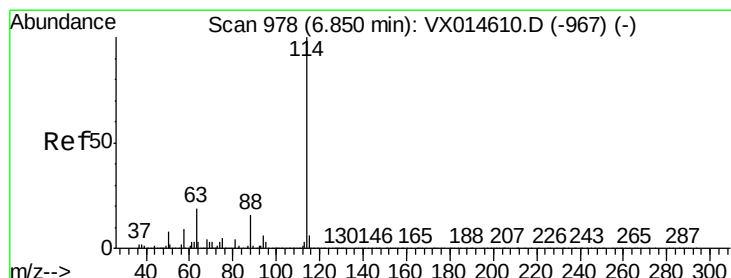
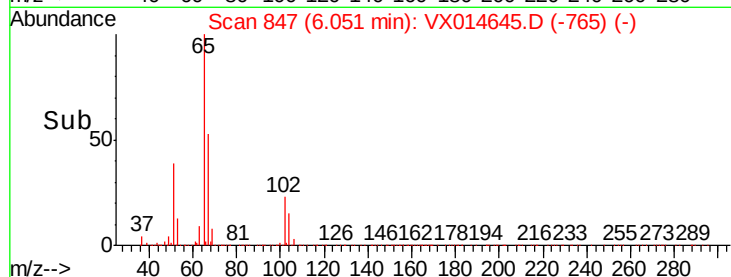
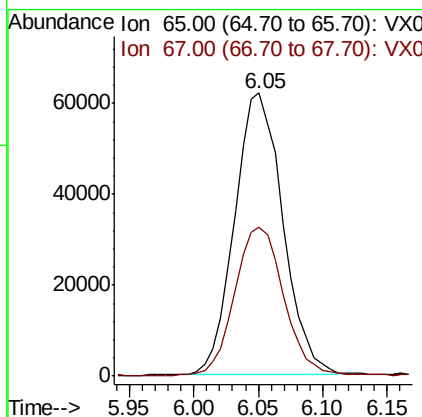
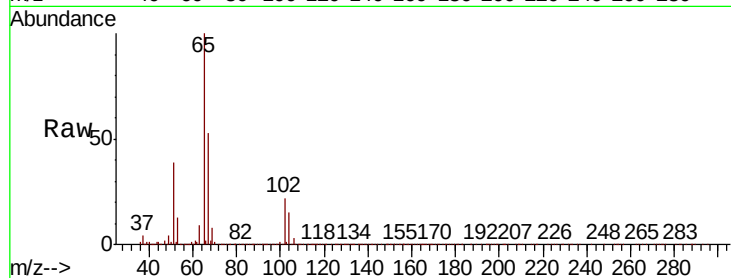




#27
 1,2-Dichloroethane-d4
 Concen: 30.479 ug/l
 RT: 6.05 min Scan# 847
 Delta R.T. 0.00 min
 Lab File: VX014645.D
 Acq: 17 Jan 2020 11:13

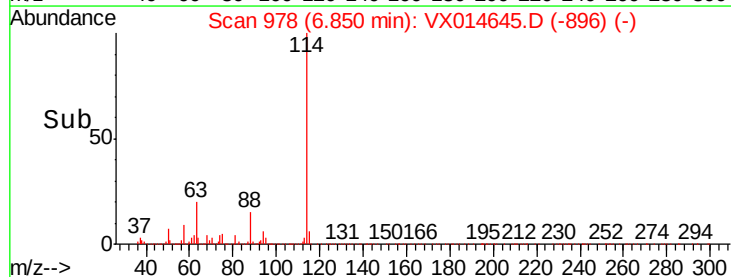
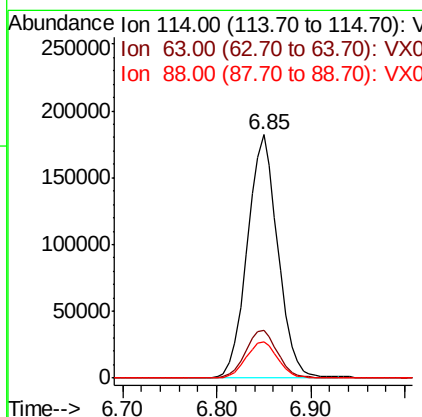
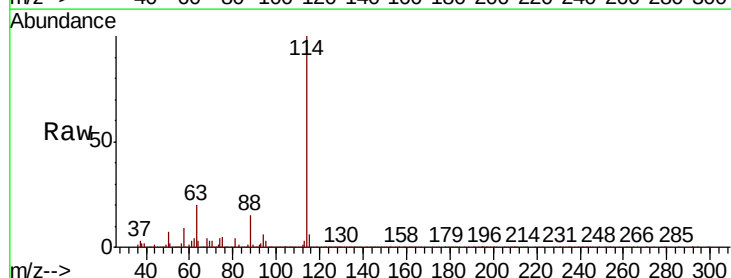
Instrument :
 MSVOA_X
 ClientSampleId :

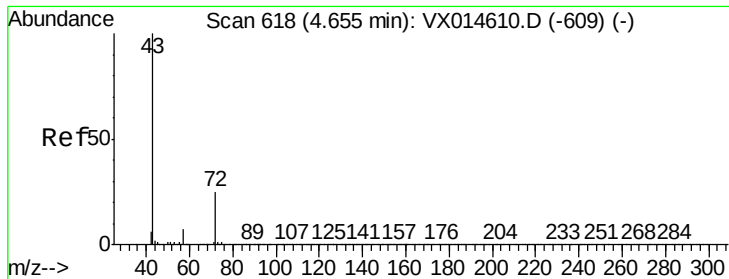
Tot Ion: 65 Resp: 161304
 Ion Ratio Lower Upper
 65 100
 67 53.3 43.1 64.7



#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 6.85 min Scan# 978
 Delta R.T. 0.00 min
 Lab File: VX014645.D
 Acq: 17 Jan 2020 11:13

Tgt Ion: 114 Resp: 413842
 Ion Ratio Lower Upper
 114 100
 63 20.5 16.1 24.1
 88 15.4 12.5 18.7

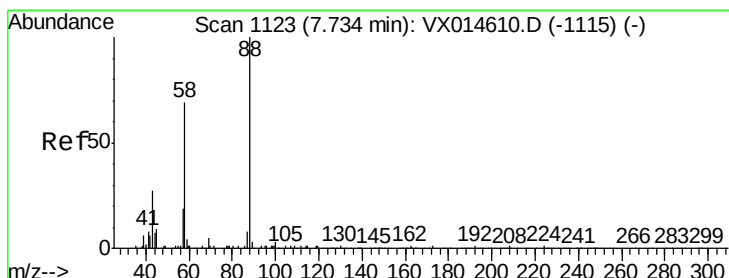
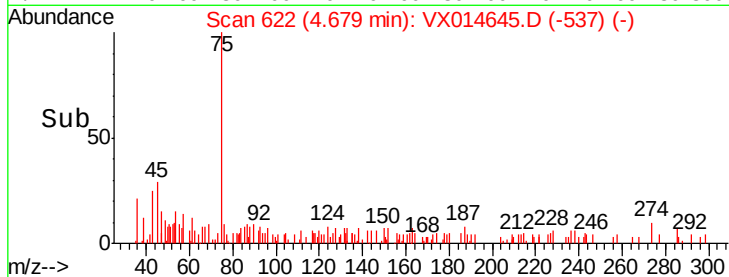
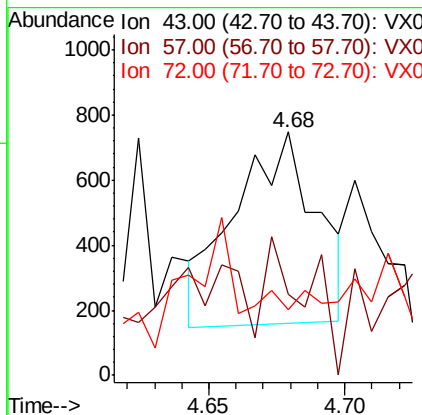
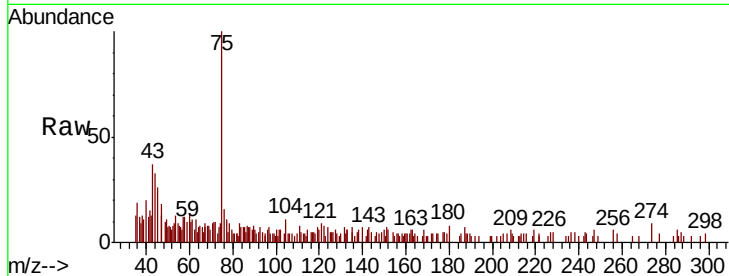




#30
2-Butanone
Concen: 0.320 ug/l
RT: 4.68 min Scan# 622
Delta R.T. 0.02 min
Lab File: VX014645.D
Acq: 17 Jan 2020 11:13

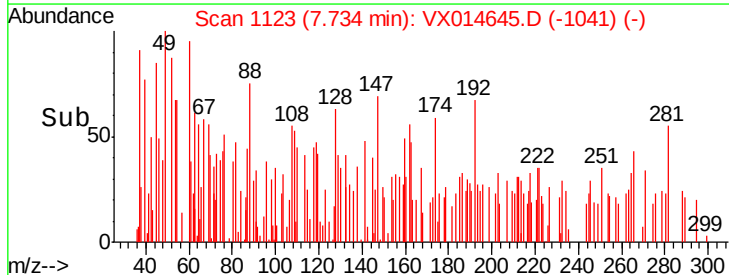
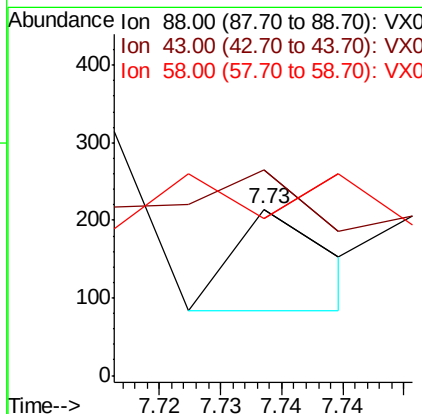
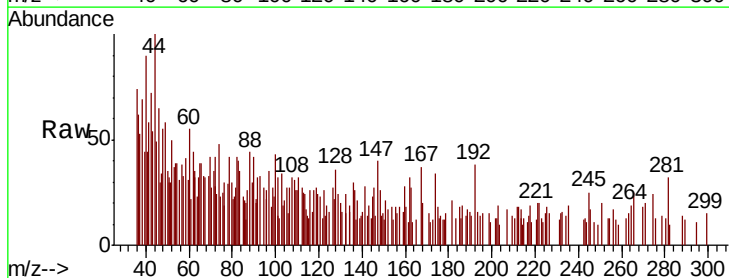
Instrument :
MSVOA_X
ClientSampled :

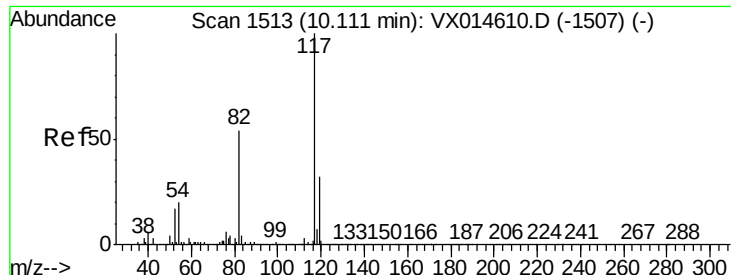
Tot Ion: 43 Resp: 1232
Ion Ratio Lower Upper
43 100
57 16.2 6.2 9.2#
72 6.7 20.3 30.5#



#45
1,4-Dioxane
Concen: 0.659 ug/l
RT: 7.73 min Scan# 1123
Delta R.T. 0.00 min
Lab File: VX014645.D
Acq: 17 Jan 2020 11:13

Tgt Ion: 88 Resp: 74
Ion Ratio Lower Upper
88 100
43 73.0 25.4 38.2#
58 0.0 56.5 84.7#

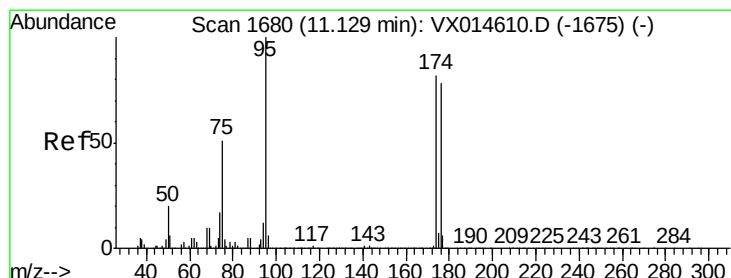
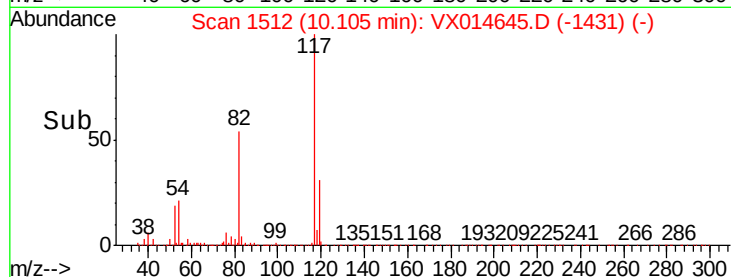
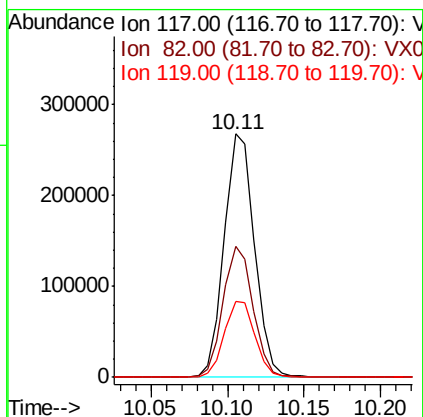
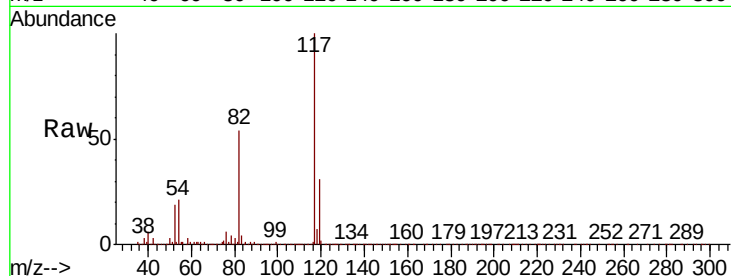




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.11 min Scan# 1512
Delta R.T. -0.01 min
Lab File: VX014645.D
Acq: 17 Jan 2020 11:13

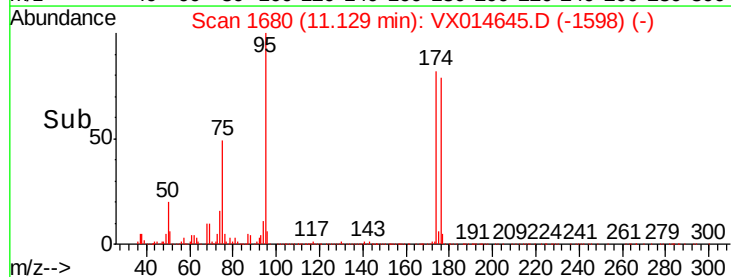
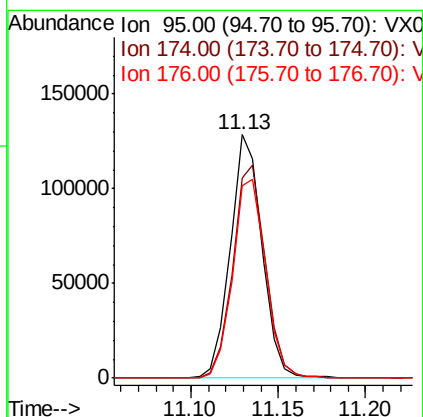
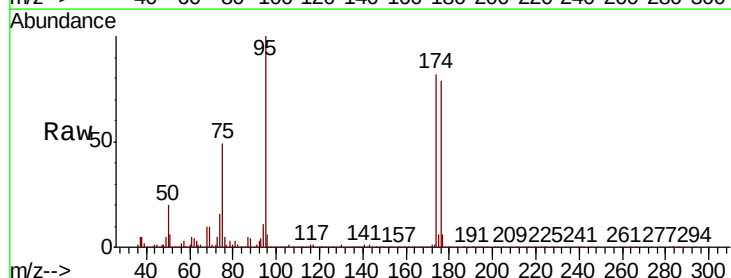
Instrument :
MSVOA_X
ClientSampleId :

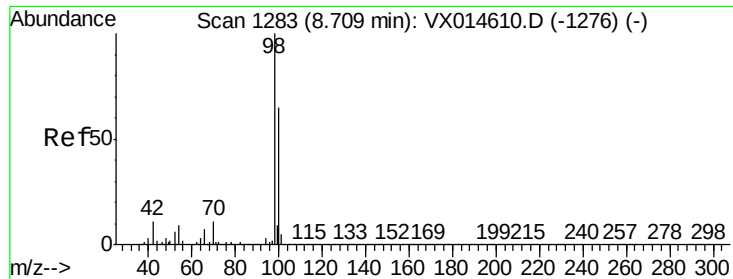
Tot Ion	Ratio	Lower	Upper
117	100		
82	53.0	43.8	65.6
119	31.7	25.8	38.6



#60
4-Bromofluorobenzene
Concen: 27.365 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. 0.00 min
Lab File: VX014645.D
Acq: 17 Jan 2020 11:13

Tgt Ion	Ratio	Lower	Upper
95	100		
174	90.3	70.2	105.2
176	85.6	68.3	102.5





#63

Toluene-d8

Concen: 29.702 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX014645.D

Acq: 17 Jan 2020 11:13

Instrument :

MSVOA_X

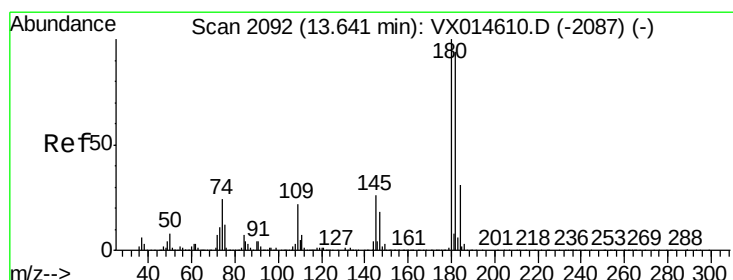
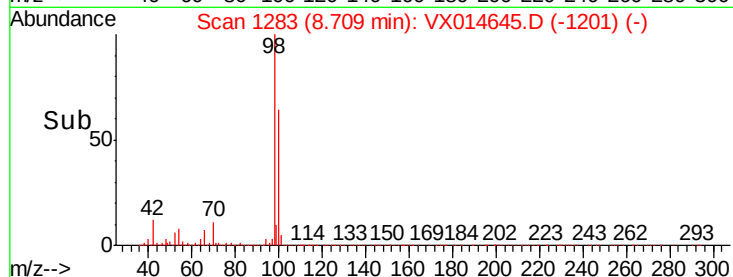
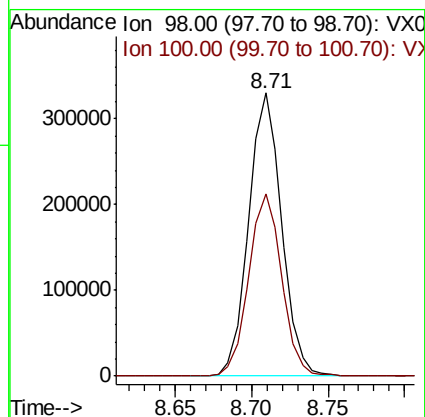
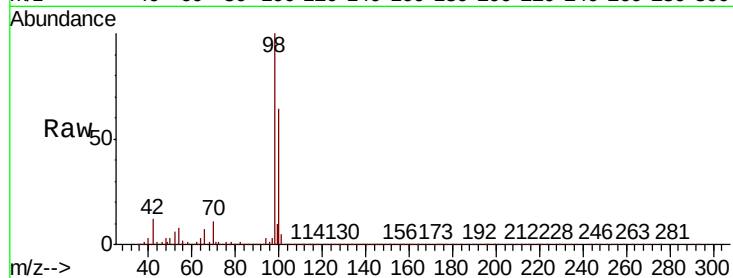
ClientSampleId :

Tot Ion: 98 Resp: 494230

Ion Ratio Lower Upper

98 100

100 64.2 52.2 78.2



#89

1,2,4-Trichlorobenzene

Concen: 0.272 ug/l

RT: 13.63 min Scan# 2091

Delta R.T. -0.01 min

Lab File: VX014645.D

Acq: 17 Jan 2020 11:13

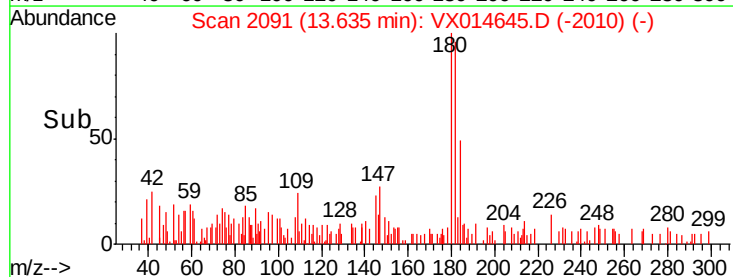
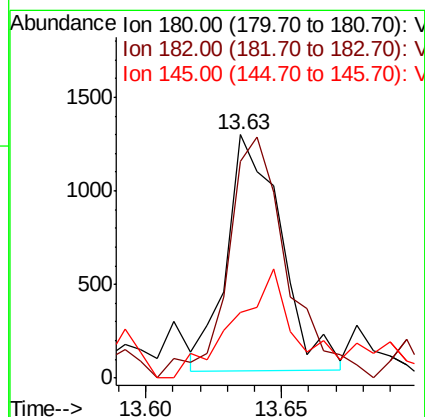
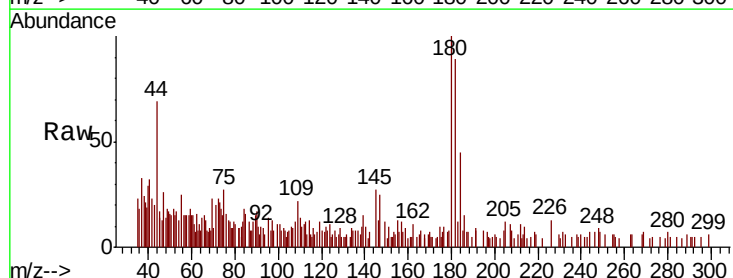
Tgt Ion: 180 Resp: 1743

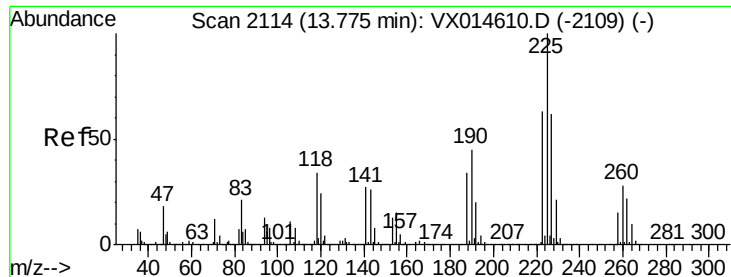
Ion Ratio Lower Upper

180 100

182 108.3 76.4 114.6

145 45.7 21.9 32.9#





#90

Hexachlorobutadiene

Concen: 0.270 ug/l

RT: 13.78 min Scan# 2115

Delta R.T. 0.01 min

Lab File: VX014645.D

Acq: 17 Jan 2020 11:13

Instrument :

MSVOA_X

ClientSampleId :

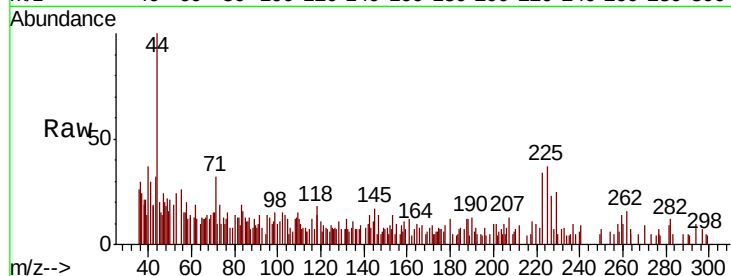
Tot Ion:225 Resp: 866

Ion Ratio Lower Upper

225 100

223 83.6 0.0 127.4

227 55.0 0.0 122.8

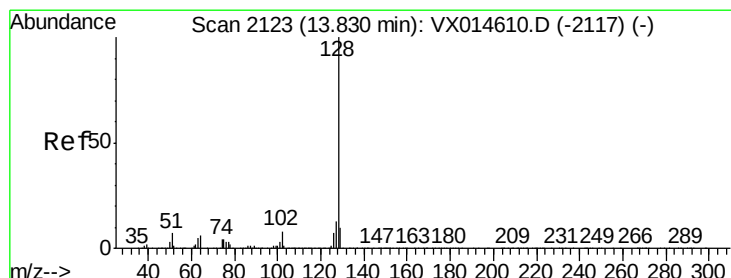
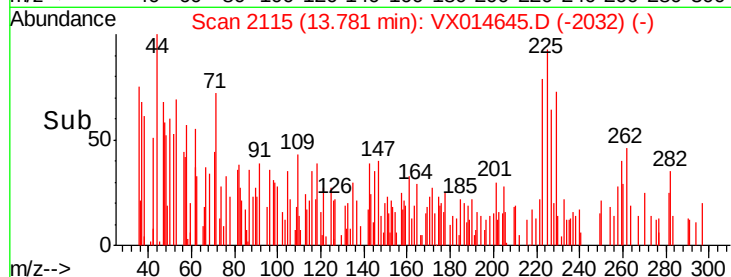
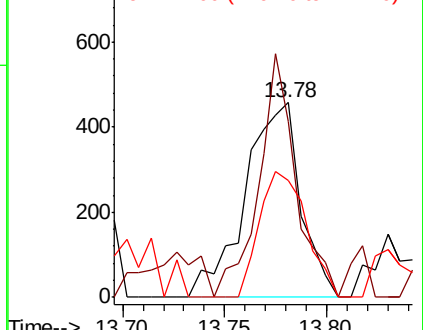


Abundance

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: 0.228 ug/l

RT: 13.83 min Scan# 2123

Delta R.T. 0.00 min

Lab File: VX014645.D

Acq: 17 Jan 2020 11:13

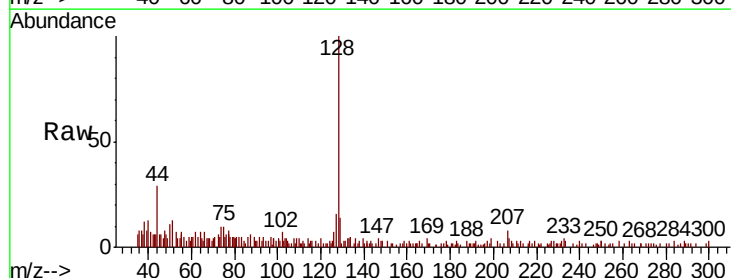
Tgt Ion:128 Resp: 4421

Ion Ratio Lower Upper

128 100

127 16.0 10.4 15.6#

129 13.2 8.9 13.3

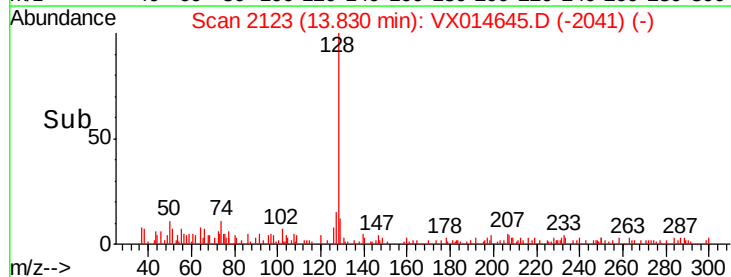
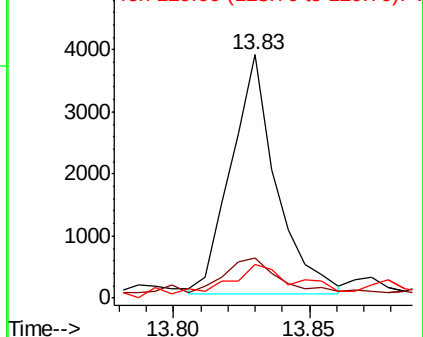


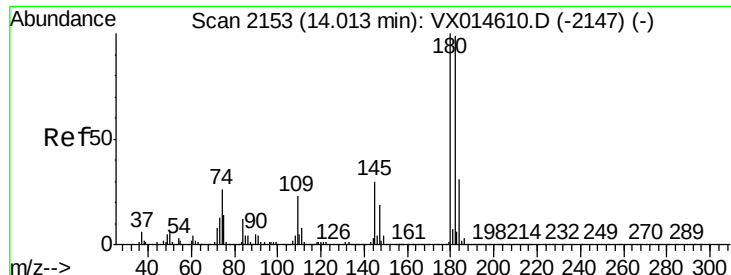
Abundance

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

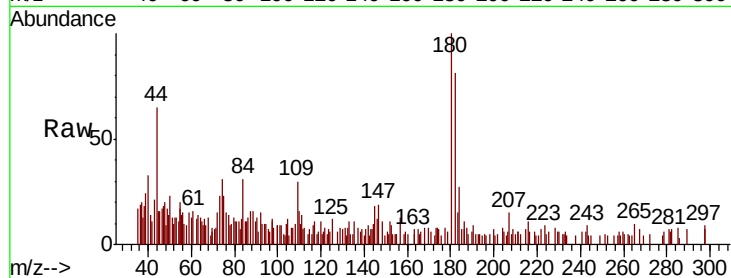




#92
 1,2,3-Trichlorobenzene
 Concen: 0.274 ug/l
 RT: 14.01 min Scan# 2153
 Delta R.T. 0.00 min
 Lab File: VX014645.D
 Acq: 17 Jan 2020 11:13

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	102.6	0.0	192.8
145	8.8	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

