

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX031320\
 Data File : VX015279.D
 Acq On : 14 Mar 2020 00:22
 Operator : JC/SP
 Sample : L1929-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 42 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 OF-1

Quant Time: Mar 16 08:32:08 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X031220W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Mar 12 14:12:53 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.00	128	52041	30.00	ug/l	-0.01
28) 1,4-Difluorobenzene	6.85	114	273859	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	251607	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.05	65	106802	30.42	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	101.40%
60) 4-Bromofluorobenzene	11.13	95	101176	25.26	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	84.20%
63) Toluene-d8	8.71	98	329499	30.57	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.90%

Target Compounds

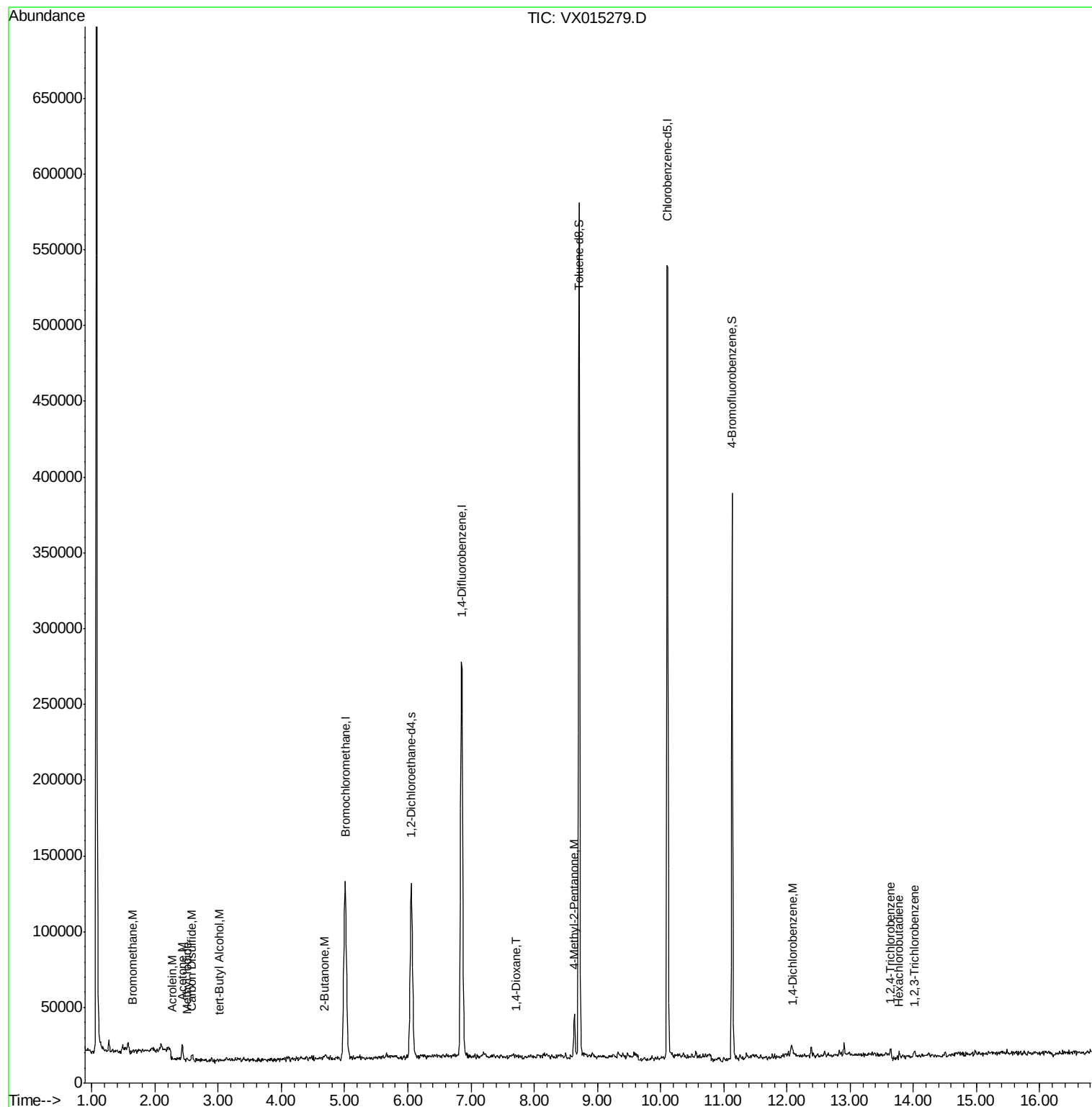
					Ovalue
5) Bromomethane	1.66	94	756	0.302	ug/l 86
11) Methyl Iodide	2.51	142	973	0.312	ug/l # 69
13) Acrolein	2.28	56	198	0.335	ug/l 84
15) Acetone	2.43	58	3600	7.072	ug/l 93
16) Carbon Disulfide	2.57	76	1812	0.213	ug/l # 31
23) tert-Butyl Alcohol	3.02	59	203	0.299	ug/l # 99
30) 2-Butanone	4.68	43	1079	0.479	ug/l # 81
45) 1,4-Dioxane	7.73	88	404	5.695	ug/l # 51
58) 4-Methyl-2-Pentanone	8.64	43	17781	4.151	ug/l 98
84) 1,4-Dichlorobenzene	12.10	146	1414	0.202	ug/l 88
89) 1,2,4-Trichlorobenzene	13.64	180	1379	0.273	ug/l 92
90) Hexachlorobutadiene	13.77	225	677	0.261	ug/l 57
92) 1,2,3-Trichlorobenzene	14.01	180	1133	0.223	ug/l 81

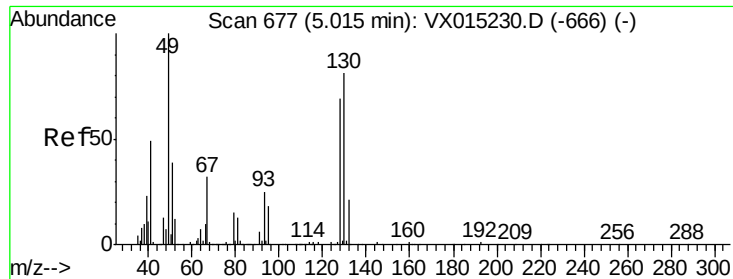
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Mar 16 08:32:08 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA X\METHOD\624X031220W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Mar 12 14:12:53 2020
Response via : Initial Calibration

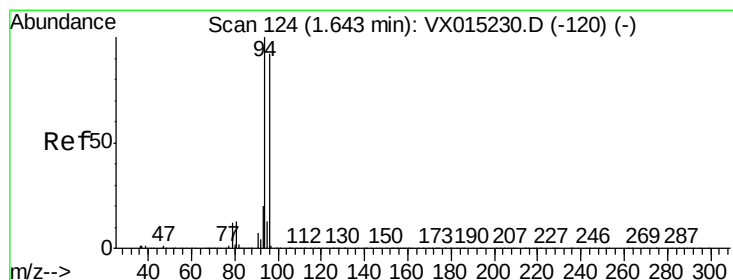
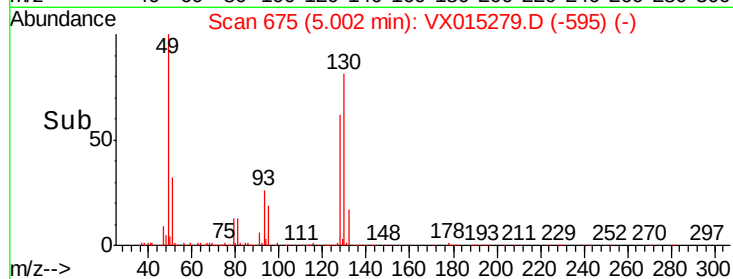
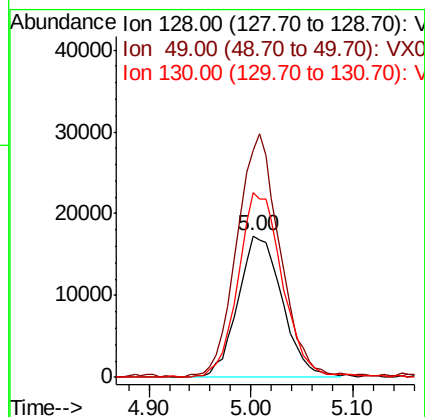
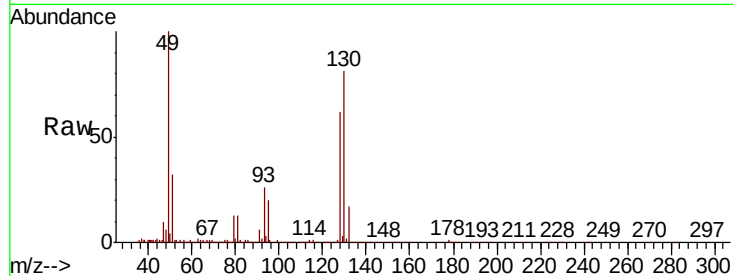




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 5.00 min Scan# 675
Delta R.T. -0.01 min
Lab File: VX015279.D
Acq: 14 Mar 2020 00:22

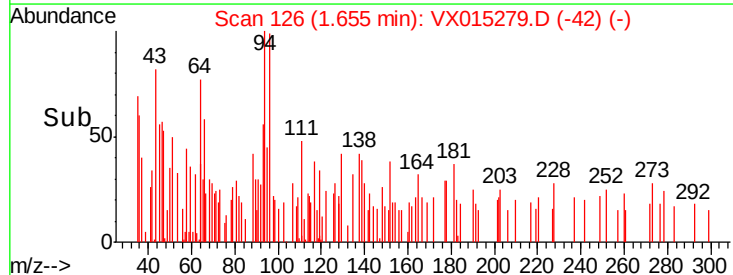
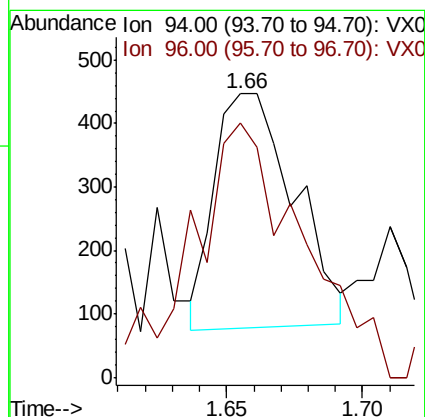
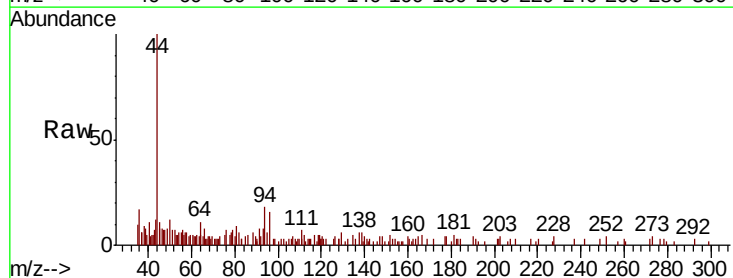
Instrument :
MSVOA_X
ClientSampleId :
OF-1

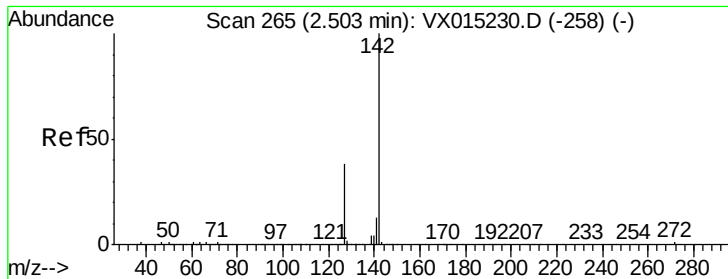
Tot Ion:128 Resp: 52041
Ion Ratio Lower Upper
128 100
49 165.7 0.0 406.8
130 127.1 0.0 319.3



#5
Bromomethane
Concen: 0.302 ug/l
RT: 1.66 min Scan# 126
Delta R.T. 0.01 min
Lab File: VX015279.D
Acq: 14 Mar 2020 00:22

Tgt Ion: 94 Resp: 756
Ion Ratio Lower Upper
94 100
96 78.3 73.0 109.4

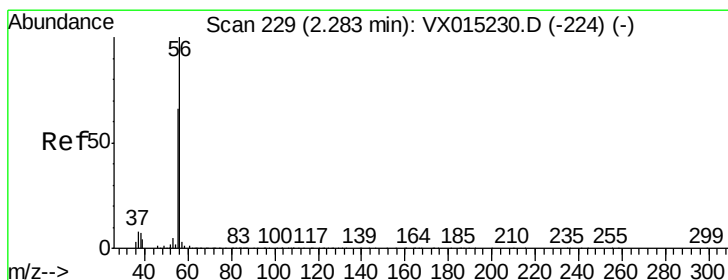
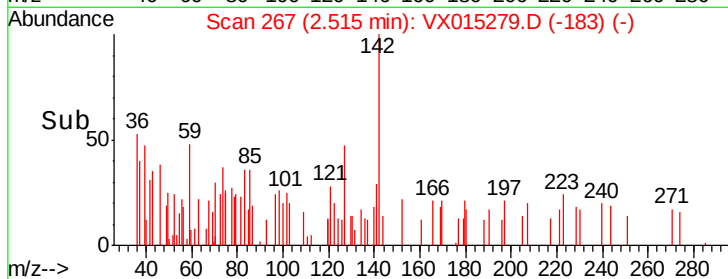
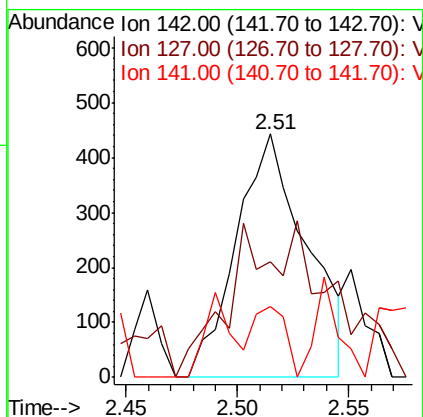
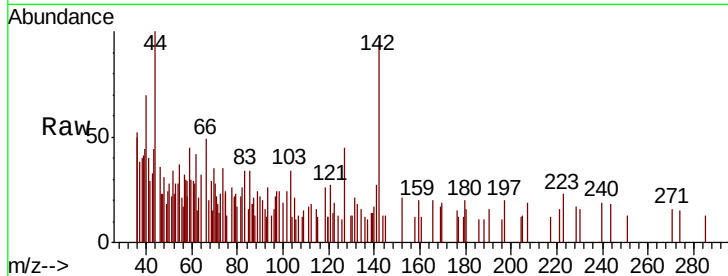




#11
Methvl Iodide
Concen: 0.312 ug/l
RT: 2.51 min Scan# 267
Delta R.T. 0.01 min
Lab File: VX015279.D
Acq: 14 Mar 2020 00:22

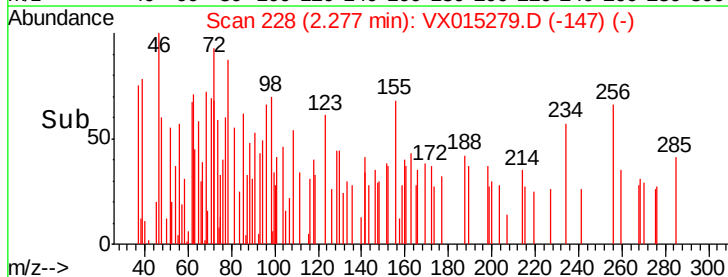
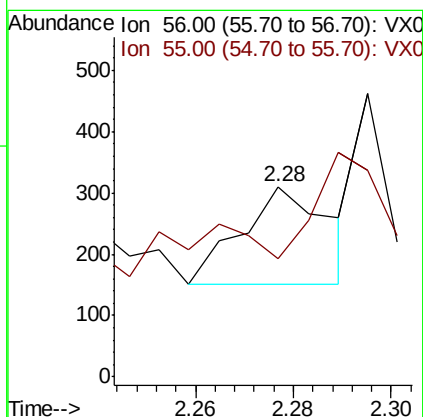
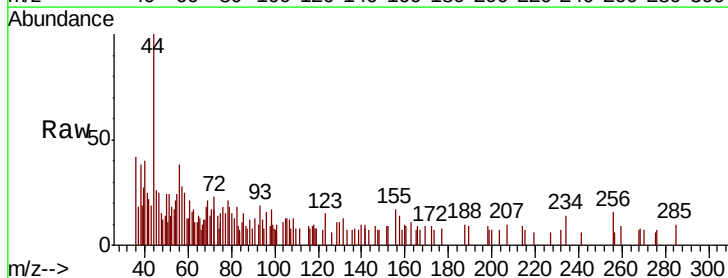
Instrument :
MSVOA_X
ClientSampled :
OF-1

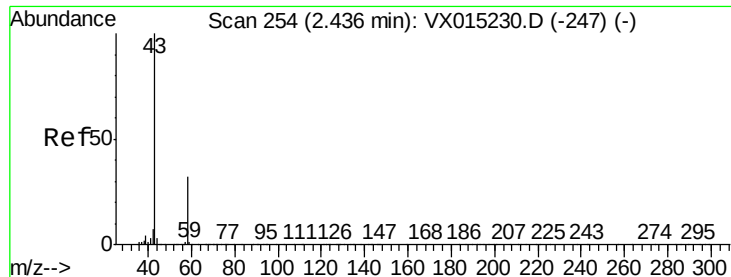
Tot Ion:142 Resp: 973
Ion Ratio Lower Upper
142 100
127 18.8 18.9 56.9#
141 24.8 6.6 19.7#



#13
Acrolein
Concen: 0.335 ug/l
RT: 2.28 min Scan# 228
Delta R.T. -0.01 min
Lab File: VX015279.D
Acq: 14 Mar 2020 00:22

Tgt Ion: 56 Resp: 198
Ion Ratio Lower Upper
56 100
55 55.6 55.1 82.7





#15

Acetone

Concen: 7.072 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.01 min

Lab File: VX015279.D

Acq: 14 Mar 2020 00:22

Instrument :

MSVOA_X

ClientSampleId :

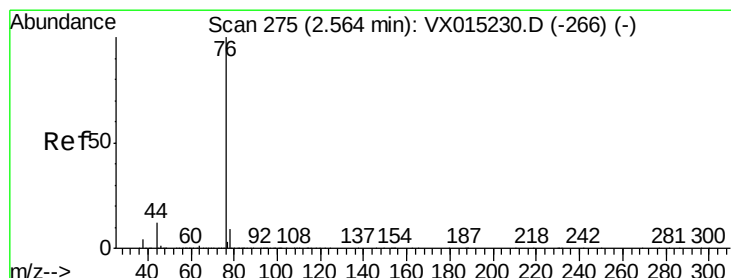
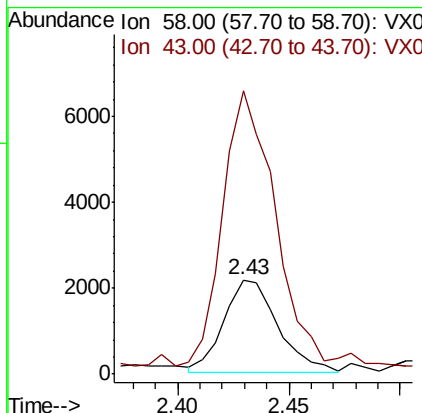
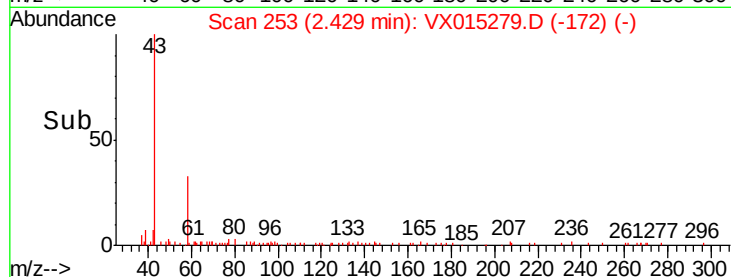
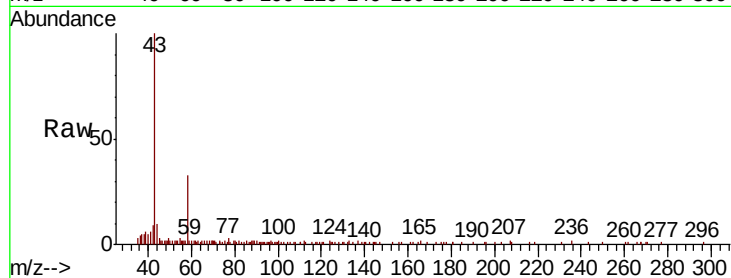
OF-1

Tot Ion: 58 Resp: 3600

Ion Ratio Lower Upper

58 100

43 296.9 248.7 373.1



#16

Carbon Disulfide

Concen: 0.213 ug/l

RT: 2.57 min Scan# 276

Delta R.T. 0.01 min

Lab File: VX015279.D

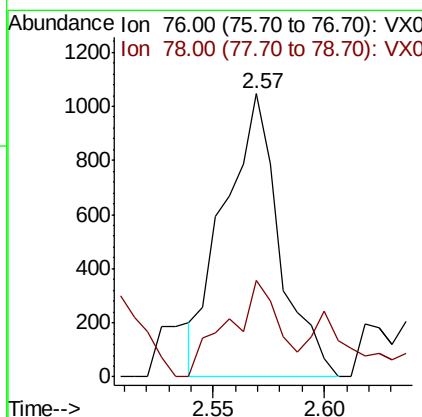
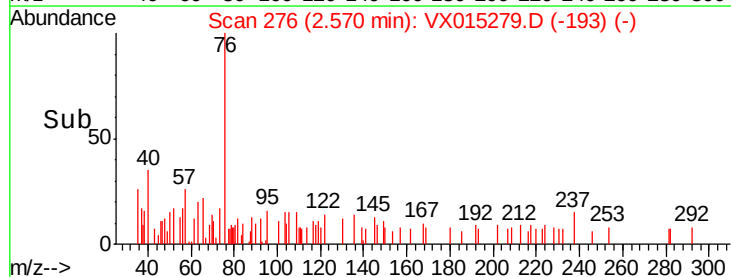
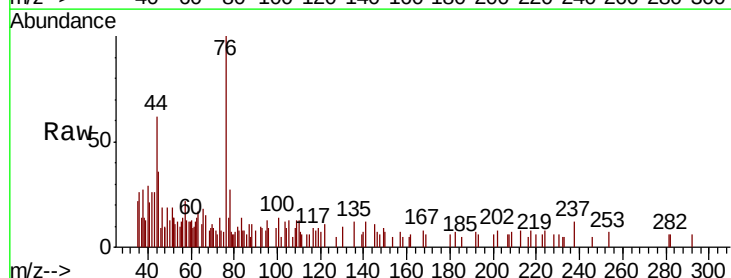
Acq: 14 Mar 2020 00:22

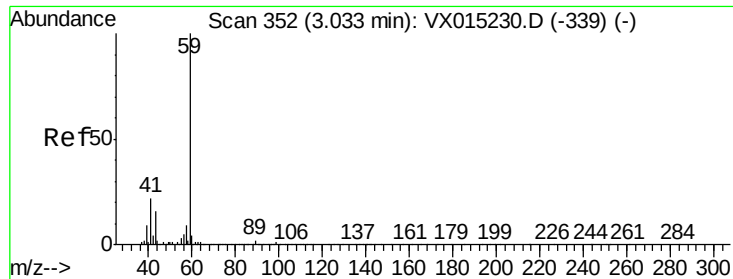
Tgt Ion: 76 Resp: 1812

Ion Ratio Lower Upper

76 100

78 33.9 7.3 10.9#



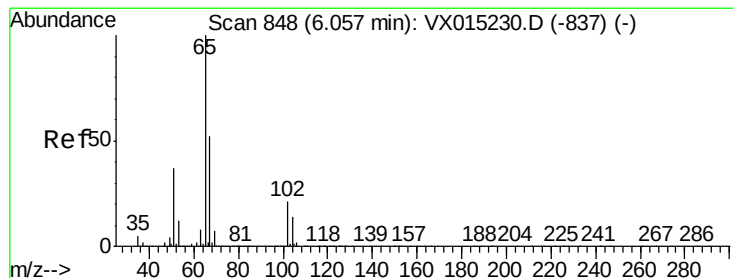
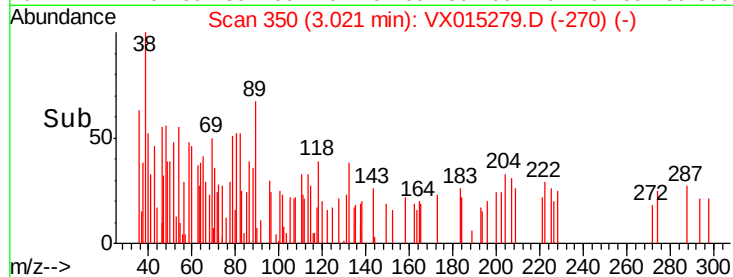
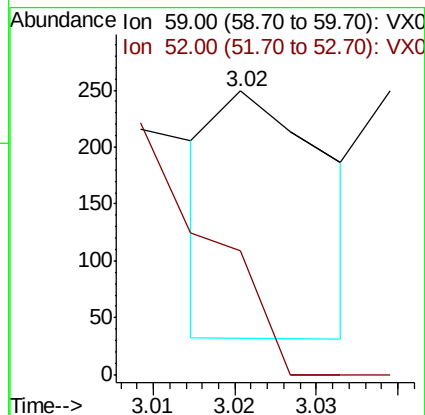
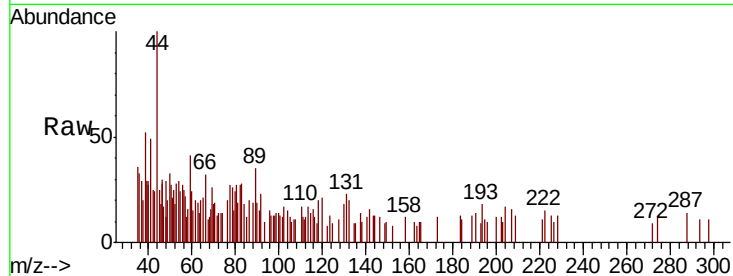


#23

tert-Butyl Alcohol
Concen: 0.299 ug/l
RT: 3.02 min Scan# 350
Delta R.T. -0.01 min
Lab File: VX015279.D
Acq: 14 Mar 2020 00:22

Instrument :
MSVOA_X
ClientSampled :
OF-1

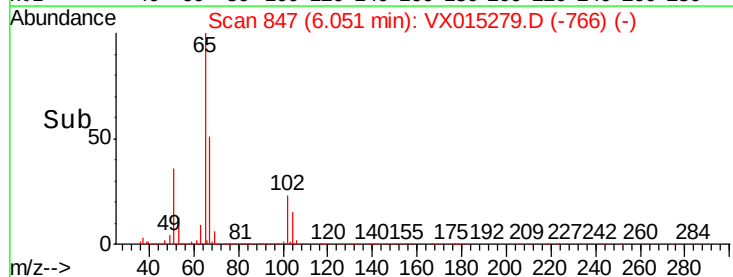
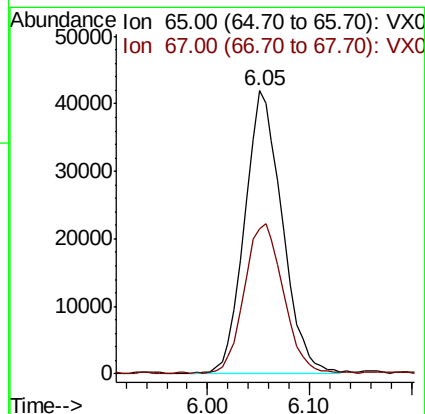
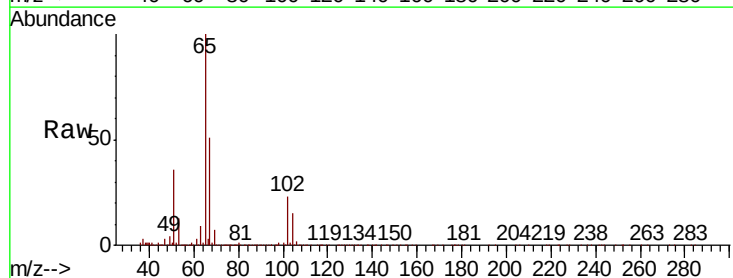
Tot Ion: 59 Resp: 203
Ion Ratio Lower Upper
59 100
52 0.0 0.4 0.6#

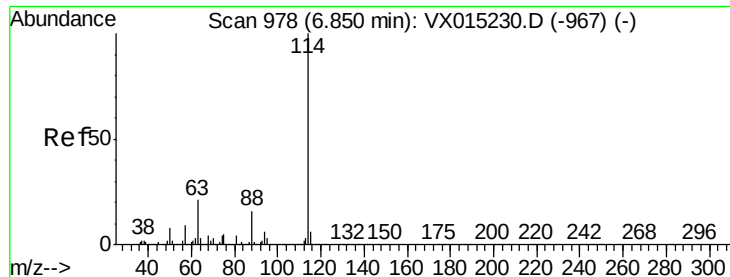


#27

1,2-Dichloroethane-d4
Concen: 30.422 ug/l
RT: 6.05 min Scan# 847
Delta R.T. -0.01 min
Lab File: VX015279.D
Acq: 14 Mar 2020 00:22

Tgt Ion: 65 Resp: 106802
Ion Ratio Lower Upper
65 100
67 54.5 43.5 65.3





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. -0.00 min

Lab File: VX015279.D

Acq: 14 Mar 2020 00:22

Instrument :

MSVOA_X

ClientSampleId :

OF-1

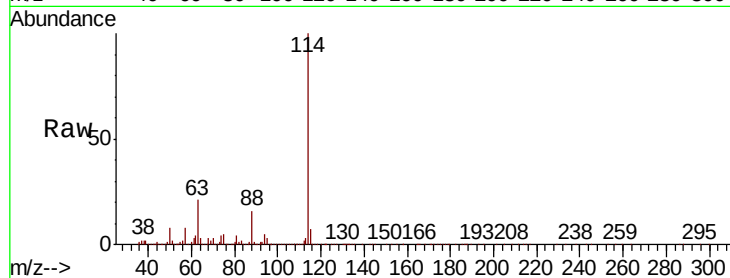
Tot Ion:114 Resp: 273859

Ion Ratio Lower Upper

114 100

63 20.4 16.6 24.8

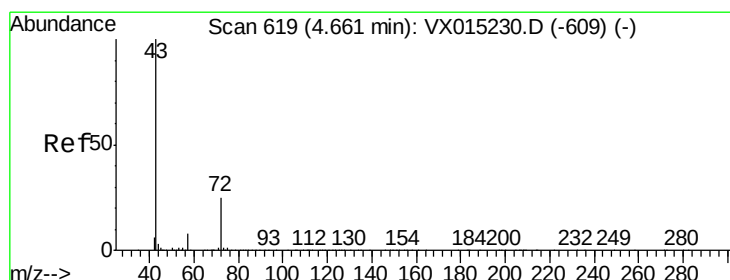
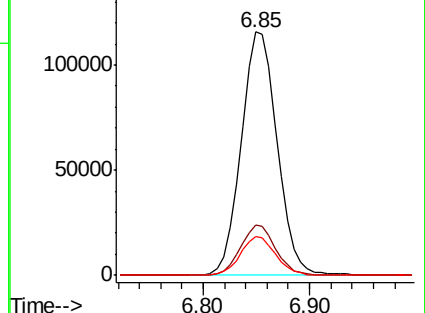
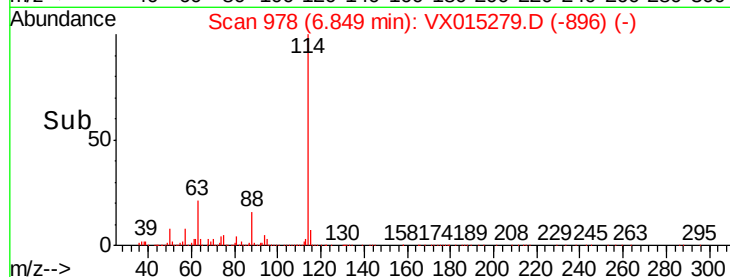
88 15.6 12.6 19.0



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 88.00 (87.70 to 88.70): VX0



#30

2-Butanone

Concen: 0.479 ug/l

RT: 4.68 min Scan# 622

Delta R.T. 0.02 min

Lab File: VX015279.D

Acq: 14 Mar 2020 00:22

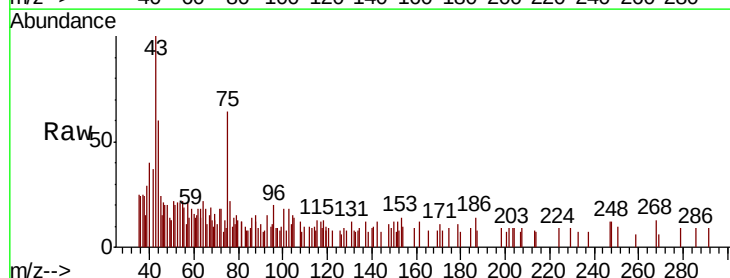
Tgt Ion: 43 Resp: 1079

Ion Ratio Lower Upper

43 100

57 0.0 6.4 9.6#

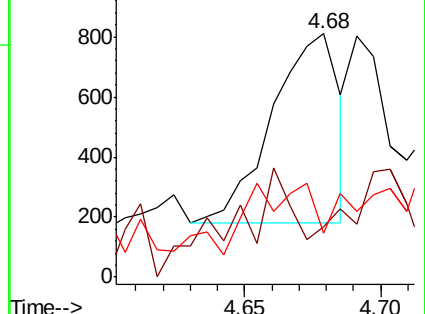
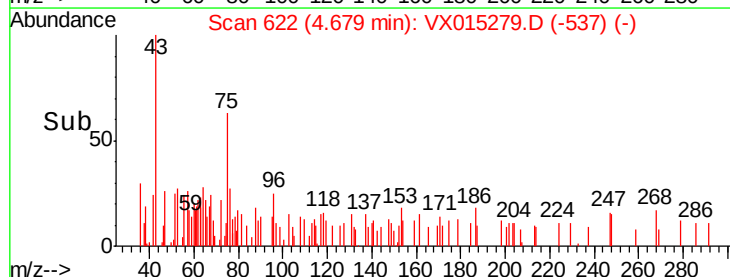
72 15.8 19.9 29.9#

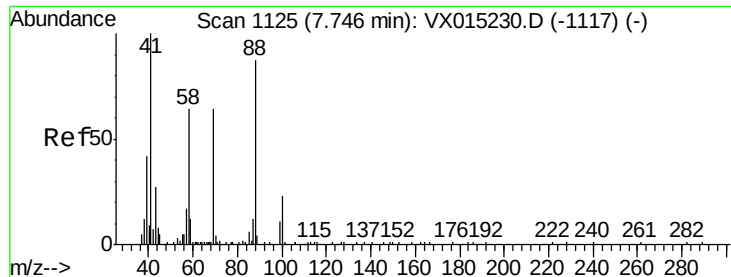


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

Ion 72.00 (71.70 to 72.70): VX0





#45

1,4-Dioxane

Concen: 5.695 ug/l

RT: 7.73 min Scan# 1122

Delta R.T. -0.02 min

Lab File: VX015279.D

Acq: 14 Mar 2020 00:22

Instrument :

MSVOA_X

ClientSampled :

OF-1

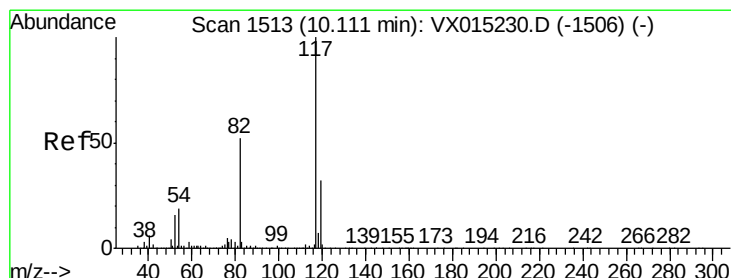
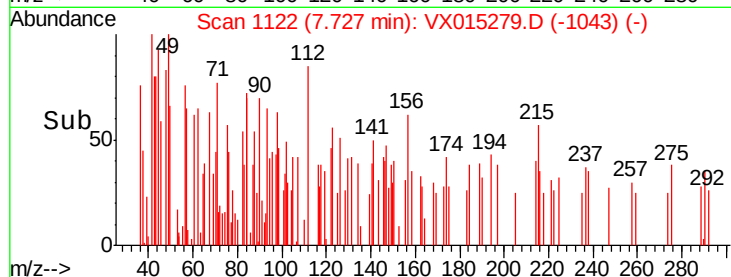
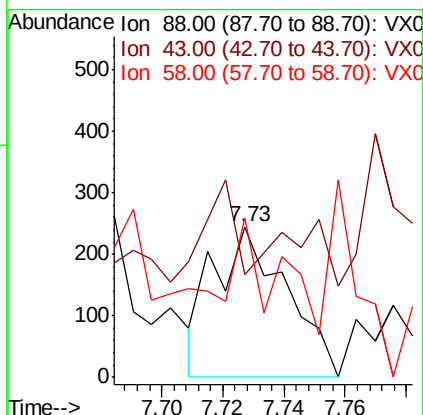
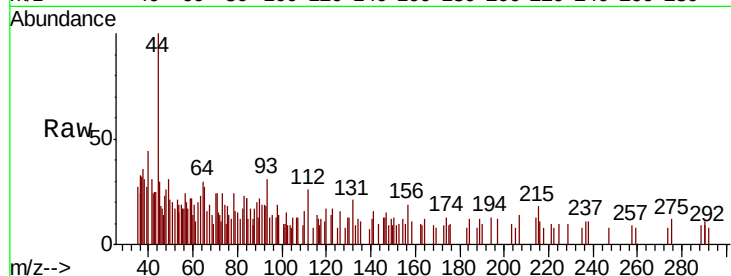
Tot Ion: 88 Resp: 404

Ion Ratio Lower Upper

88 100

43 36.4 26.4 39.6

58 13.9 57.3 85.9#



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VX015279.D

Acq: 14 Mar 2020 00:22

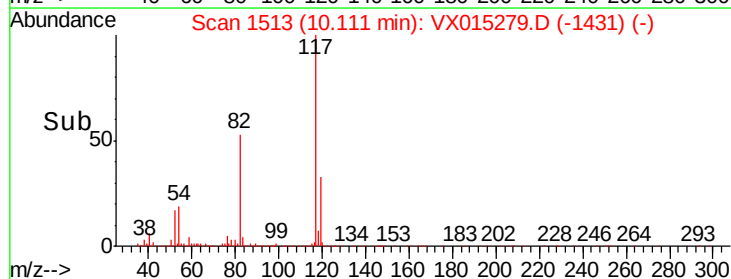
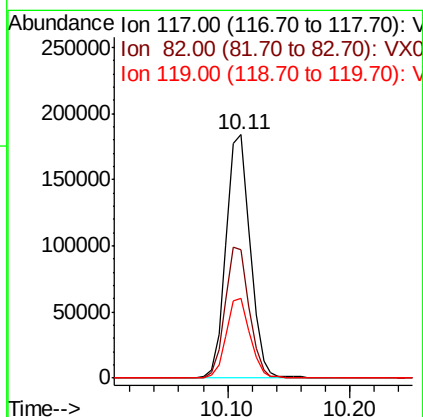
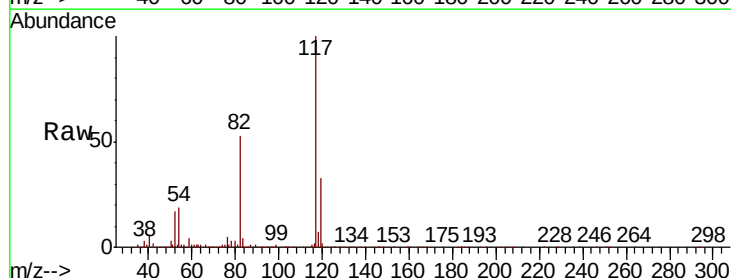
Tgt Ion: 117 Resp: 251607

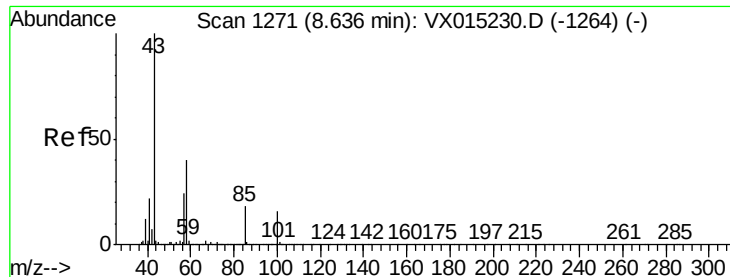
Ion Ratio Lower Upper

117 100

82 53.2 43.2 64.8

119 32.3 25.8 38.8

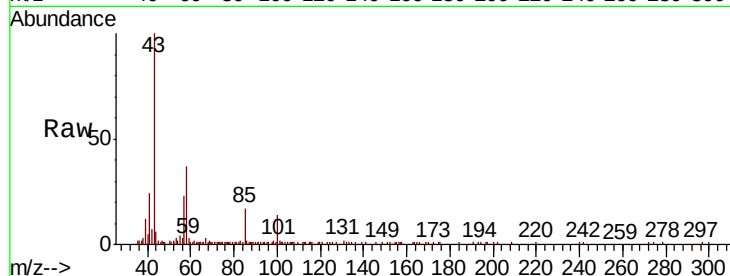




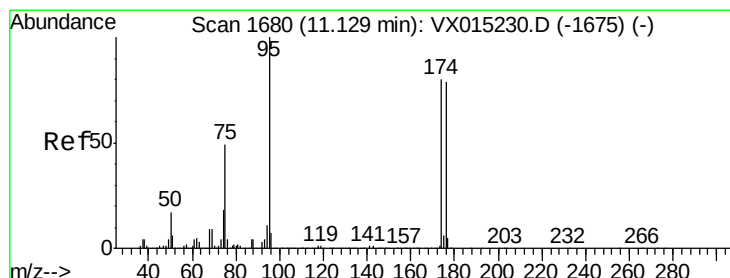
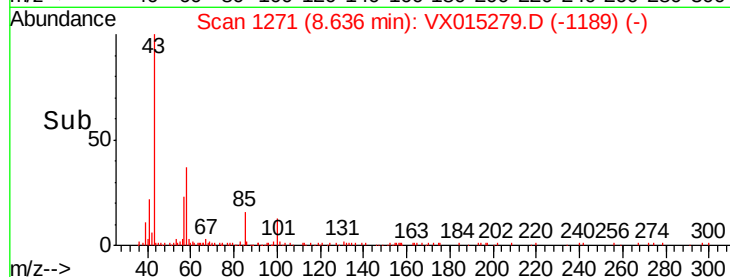
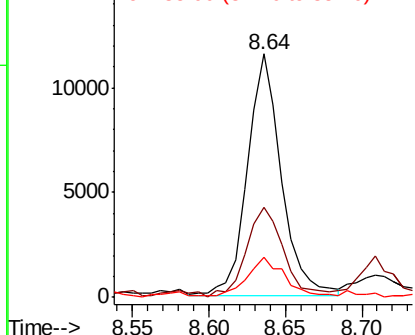
#58
4-Methyl-2-Pentanone
Concen: 4.151 ug/l
RT: 8.64 min Scan# 1271
Delta R.T. -0.00 min
Lab File: VX015279.D
Acq: 14 Mar 2020 00:22

Instrument :
MSVOA_X
ClientSampled :
OF-1

Tot Ion: 43 Resp: 17781
Ion Ratio Lower Upper
43 100
58 41.1 31.6 47.4
85 17.5 13.8 20.8

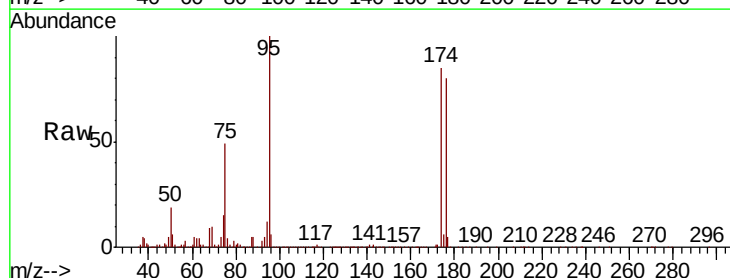


Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 58.00 (57.70 to 58.70): VX0
Ion 85.00 (84.70 to 85.70): VX0

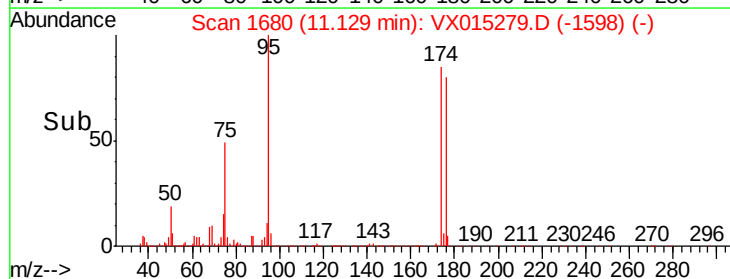
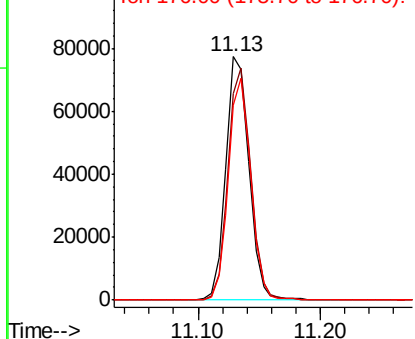


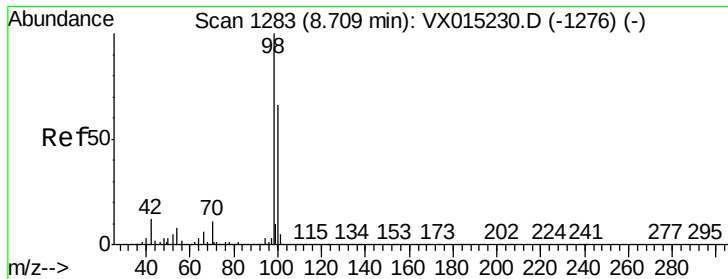
#60
4-Bromofluorobenzene
Concen: 25.261 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. -0.00 min
Lab File: VX015279.D
Acq: 14 Mar 2020 00:22

Tgt Ion: 95 Resp: 101176
Ion Ratio Lower Upper
95 100
174 93.3 72.0 108.0
176 87.9 70.1 105.1



Abundance Ion 95.00 (94.70 to 95.70): VX0
Ion 174.00 (173.70 to 174.70): V
Ion 176.00 (175.70 to 176.70): V





#63

Toluene-d8

Concen: 30.573 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VX015279.D

Acq: 14 Mar 2020 00:22

Instrument :

MSVOA_X

ClientSampled :

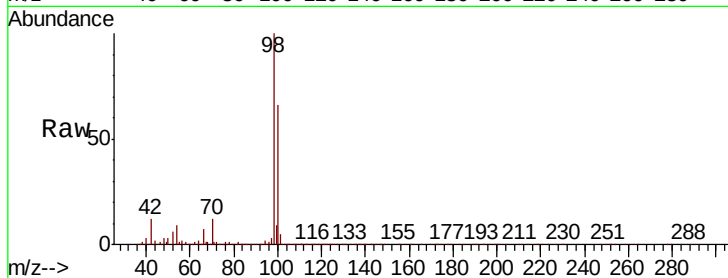
OF-1

Tot Ion: 98 Resp: 329499

Ion Ratio Lower Upper

98 100

100 66.4 53.0 79.4



Abundance Ion 98.00 (97.70 to 98.70): VX015230.D (-1276) (-)

Ion 100.00 (99.70 to 100.70): VX015279.D (-1201) (-)

8.71

250000

200000

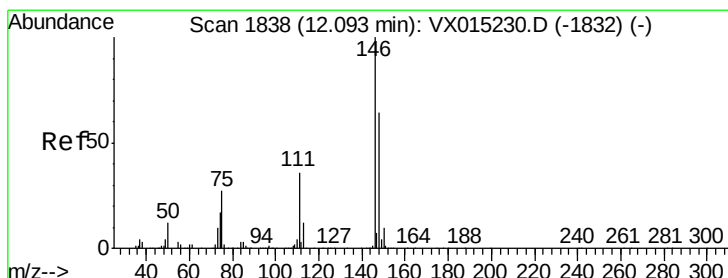
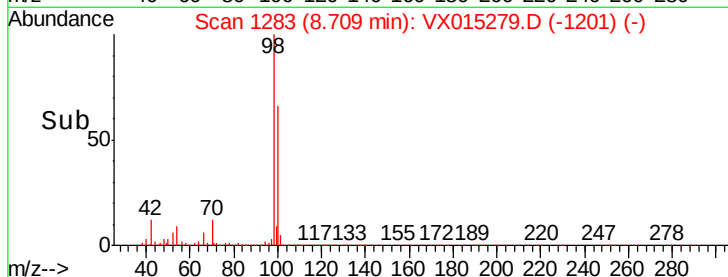
150000

100000

50000

0

Time-->



#84

1,4-Dichlorobenzene

Concen: 0.202 ug/l

RT: 12.10 min Scan# 1839

Delta R.T. 0.01 min

Lab File: VX015279.D

Acq: 14 Mar 2020 00:22

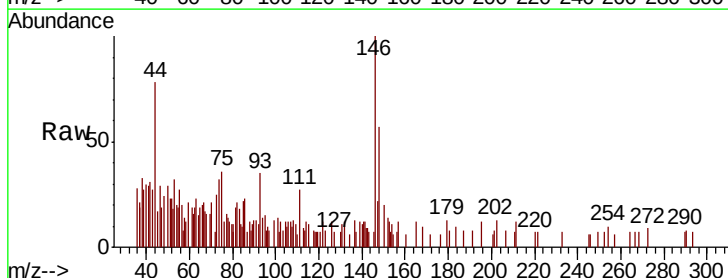
Tgt Ion: 146 Resp: 1414

Ion Ratio Lower Upper

146 100

111 51.5 18.4 55.0

148 67.5 31.9 95.9



Abundance Ion 146.00 (145.70 to 146.70): VX015230.D (-1832) (-)

Ion 111.00 (110.70 to 111.70): VX015279.D (-1756) (-)

Ion 148.00 (147.70 to 148.70): VX015279.D (-1756) (-)

12.10

1000

800

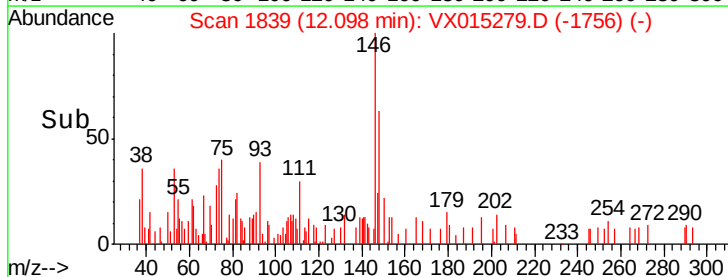
600

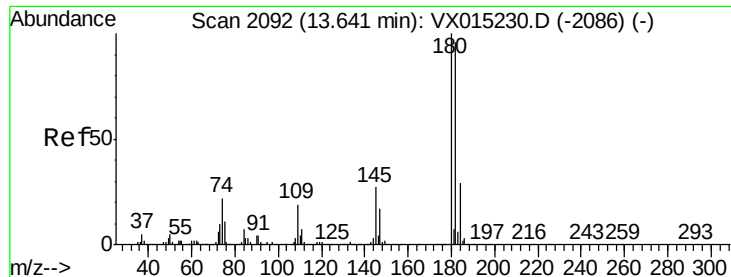
400

200

0

Time-->

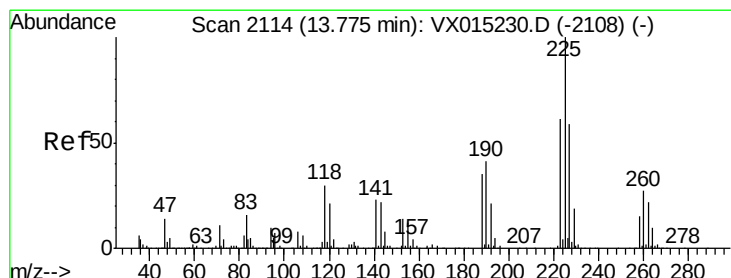
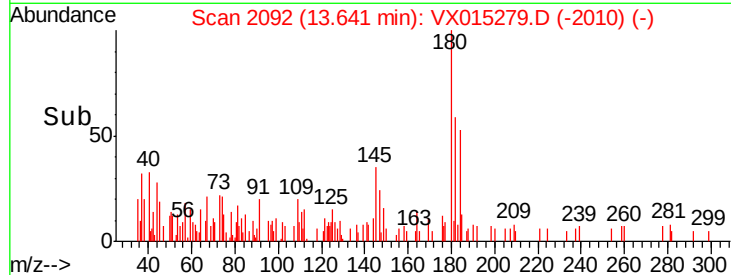
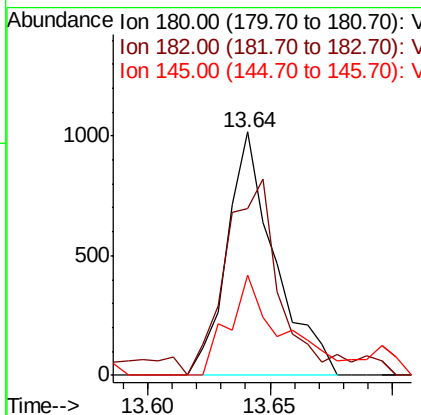
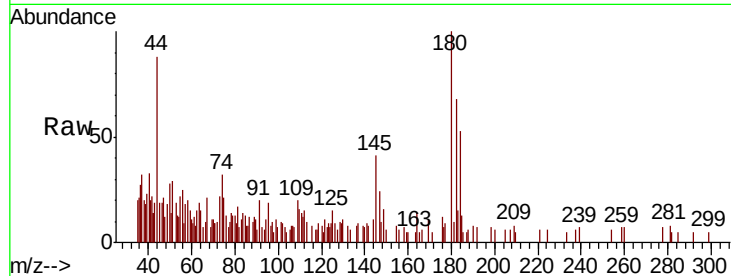




#89
 1,2,4-Trichlorobenzene
 Concen: 0.273 ug/l
 RT: 13.64 min Scan# 2092
 Delta R.T. -0.00 min
 Lab File: VX015279.D
 Acq: 14 Mar 2020 00:22

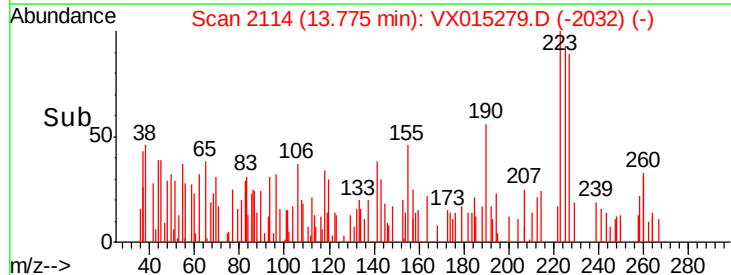
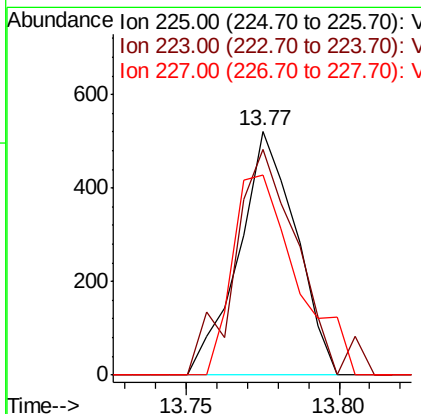
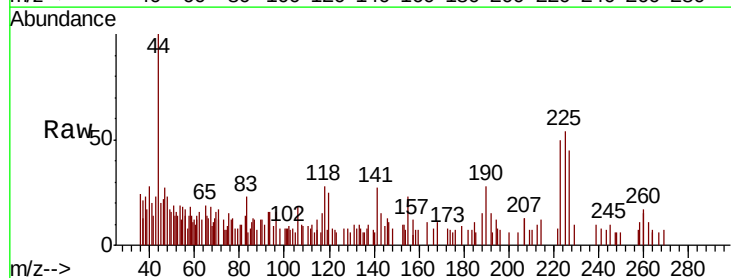
Instrument :
 MSVOA_X
 ClientSampled :
 OF-1

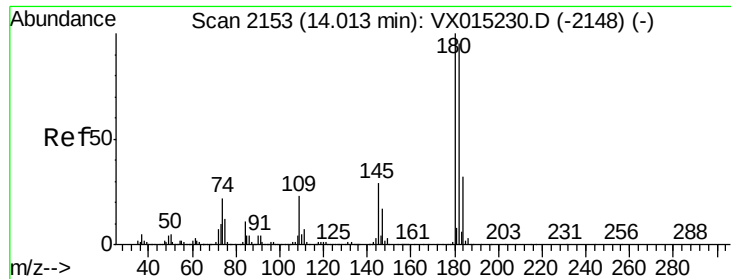
Tot Ion:180 Resp: 1379
 Ion Ratio Lower Upper
 180 100
 182 88.1 76.6 115.0
 145 32.4 22.7 34.1



#90
 Hexachlorobutadiene
 Concen: 0.261 ug/l
 RT: 13.77 min Scan# 2114
 Delta R.T. -0.00 min
 Lab File: VX015279.D
 Acq: 14 Mar 2020 00:22

Tgt Ion:225 Resp: 677
 Ion Ratio Lower Upper
 225 100
 223 99.4 0.0 125.0
 227 92.6 0.0 126.2

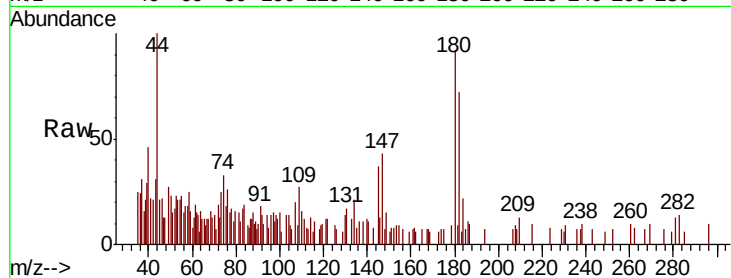




#92
 1,2,3-Trichlorobenzene
 Concen: 0.223 ug/l
 RT: 14.01 min Scan# 2153
 Delta R.T. -0.00 min
 Lab File: VX015279.D
 Acq: 14 Mar 2020 00:22

Instrument :
 MSVOA_X
 ClientSampled :
 OF-1

Tot Ion	Ratio	Lower	Upper
180	100		
182	106.1	0.0	192.0
145	56.0	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

