

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\WX030220\
 Data File : VX015065.D
 Acq On : 02 Mar 2020 11:46
 Operator : JC/SP
 Sample : L1724-01 50X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 A2828

Quant Time: Mar 02 16:07:46 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X021020W.M
 Quant Title : SW846 8260
 QLast Update : Mon Feb 10 12:09:20 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	421566	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	675395	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	651054	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	337306	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.06	65	245520	51.60	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.20%	
35) Dibromofluoromethane	5.49	113	207654	50.01	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.02%	
50) Toluene-d8	8.71	98	824579	52.03	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.06%	
62) 4-Bromofluorobenzene	11.13	95	300850	52.69	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.38%	

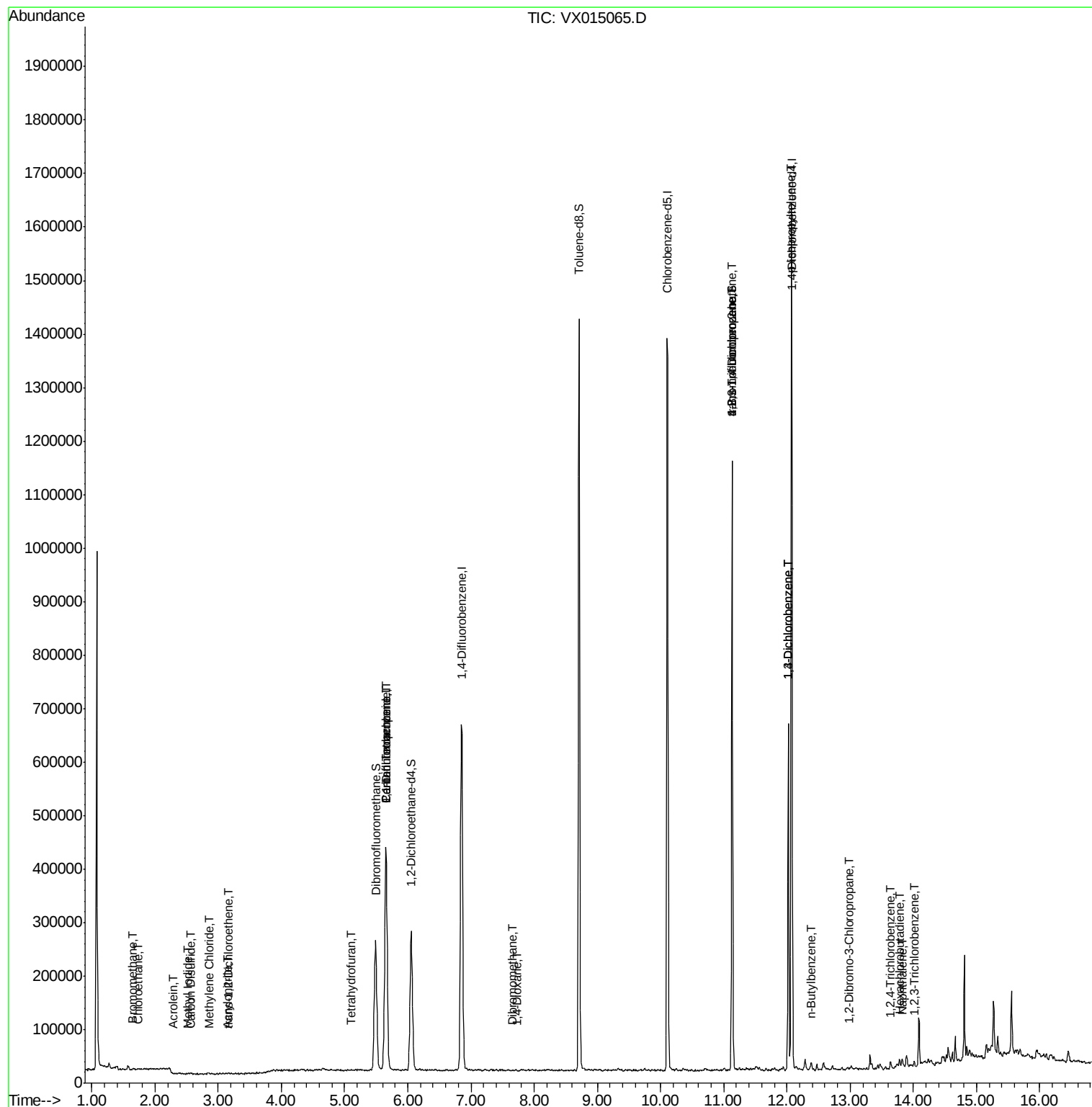
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.66	94	1691	0.54	ug/l	87
6) Chloroethane	1.73	64	759	0.24	ug/l	# 68
10) Methyl Iodide	2.52	142	2169	4.82	ug/l	95
13) Acrolein	2.28	56	955	1.49	ug/l	# 15
15) Acrylonitrile	3.15	53	619	0.29	ug/l	# 60
16) Acetone	2.43	43	2145	Below Cal		# 53
17) Carbon Disulfide	2.56	76	2714	0.25	ug/l	# 93
20) Methylene Chloride	2.85	84	929	0.20	ug/l	# 78
21) trans-1,2-Dichloroethene	3.16	96	905	0.21	ug/l	# 28
29) Tetrahydrofuran	5.10	42	545	0.30	ug/l	# 75
36) 1,1-Dichloropropene	5.65	75	28932	4.79	ug/l	# 51
38) Carbon Tetrachloride	5.66	117	37285	6.33	ug/l	# 16
46) Dibromomethane	7.66	93	804	0.26	ug/l	# 57
49) 1,4-Dioxane	7.73	88	313	3.27	ug/l	# 68
76) 1,2,3-Trichloropropane	11.13	75	147309	24.15	ug/l	# 41
81) trans-1,4-Dichloro-2-buten	11.13	75	147309	61.82	ug/l	# 12
86) p-Isopropyltoluene	12.06	119	19603	1.01	ug/l	94
87) 1,3-Dichlorobenzene	12.03	146	2621	0.25	ug/l	88
88) 1,4-Dichlorobenzene	12.03	146	2621	0.24	ug/l	87
89) n-Butylbenzene	12.38	91	4845	0.28	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	12.98	75	375	0.23	ug/l	85
93) 1,2,4-Trichlorobenzene	13.64	180	3369	0.44	ug/l	96
94) Hexachlorobutadiene	13.78	225	1593	0.43	ug/l	75
95) Naphthalene	13.83	128	7851	0.39	ug/l	# 94
96) 1,2,3-Trichlorobenzene	14.01	180	3087	0.42	ug/l	# 89

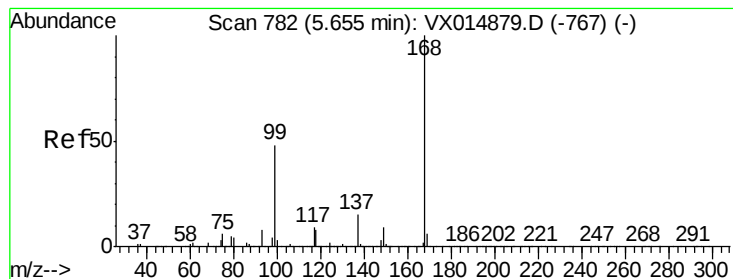
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampled :
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Quant Time: Mar 02 16:07:46 2020
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Quant Title : SW846 8260
QLast Update : Mon Feb 10 12:09:20 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.00 min

Lab File: VX015065.D

Acq: 02 Mar 2020 11:46

Instrument :

MSVOA_X

ClientSampleId :

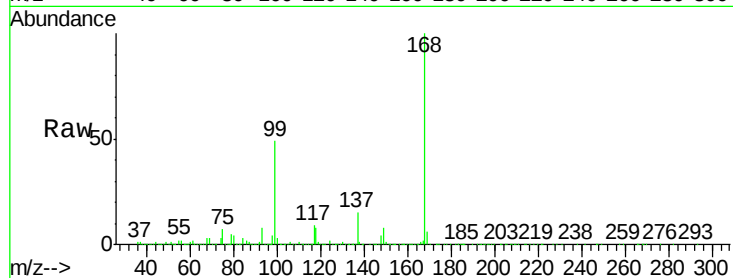
A2828

Tgt Ion:168 Resp: 421566

Ion Ratio Lower Upper

168 100

99 48.9 38.7 58.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

150000

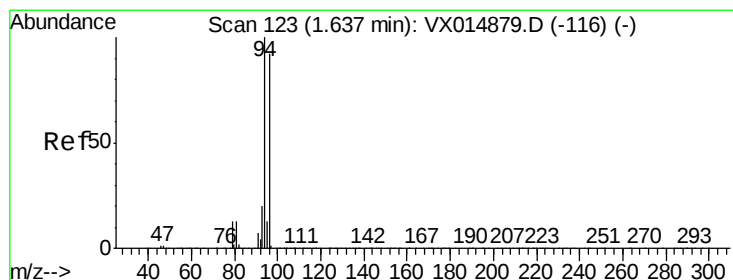
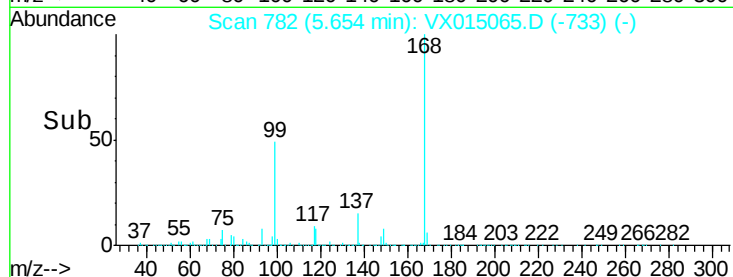
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.54 ug/l

RT: 1.66 min Scan# 126

Delta R.T. 0.02 min

Lab File: VX015065.D

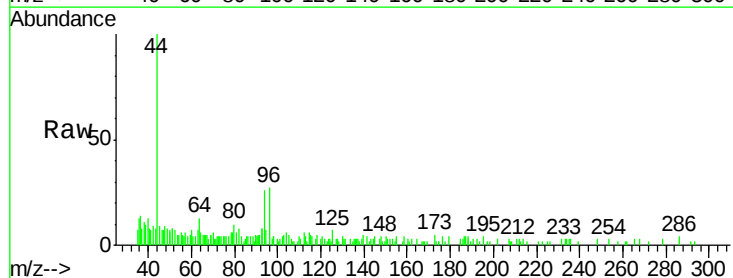
Acq: 02 Mar 2020 11:46

Tgt Ion: 94 Resp: 1691

Ion Ratio Lower Upper

94 100

96 80.0 73.7 110.5



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.66

800

600

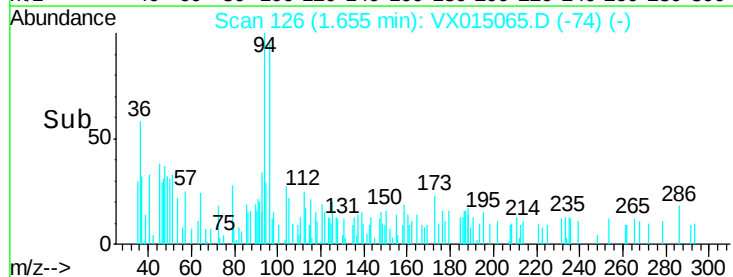
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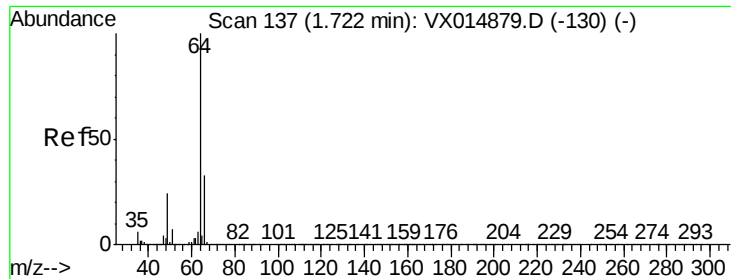
200

0

Time-->

1.60 1.65 1.70 1.75





#6

Chloroethane

Concen: 0.24 ug/l

RT: 1.73 min Scan# 138

Delta R.T. 0.01 min

Lab File: VX015065.D

Acq: 02 Mar 2020 11:46

Instrument :

MSVOA_X

ClientSampleId :

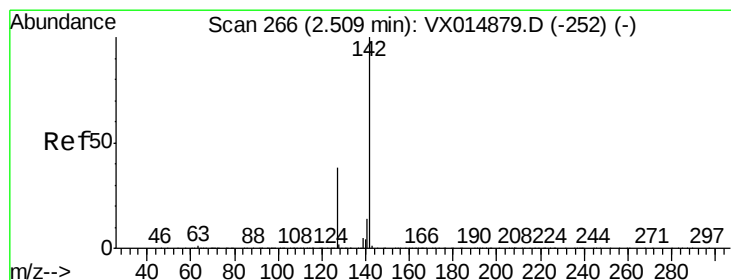
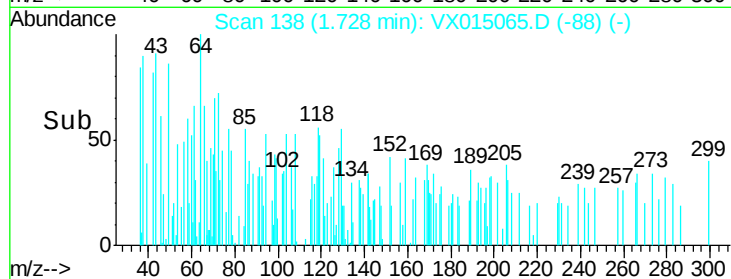
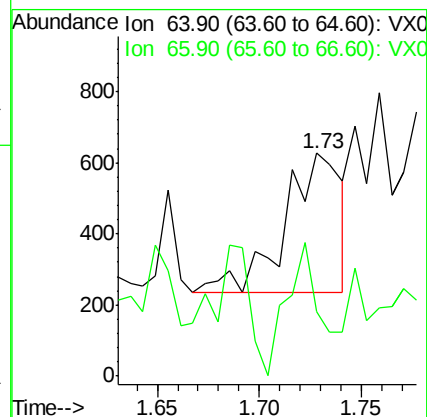
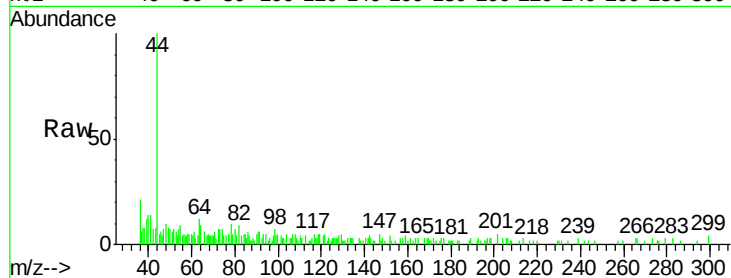
A2828

Tgt Ion: 64 Resp: 759

Ion Ratio Lower Upper

64 100

66 14.8 26.2 39.4#



#10

Methyl Iodide

Concen: 4.82 ug/l

RT: 2.52 min Scan# 268

Delta R.T. 0.01 min

Lab File: VX015065.D

Acq: 02 Mar 2020 11:46

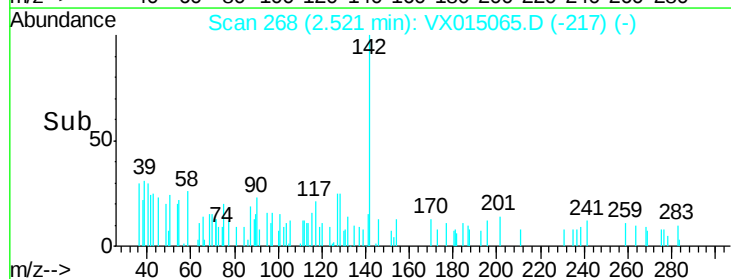
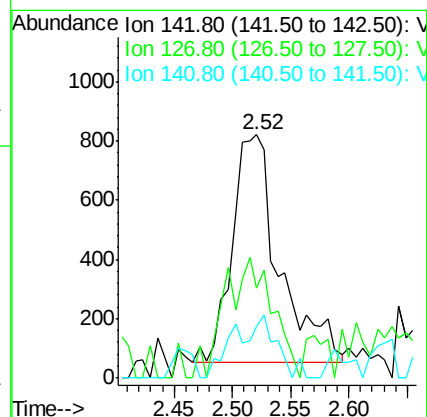
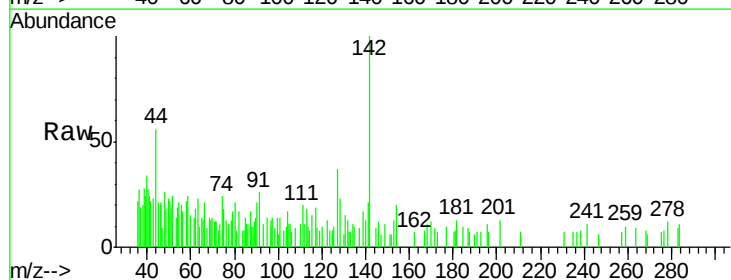
Tgt Ion: 142 Resp: 2169

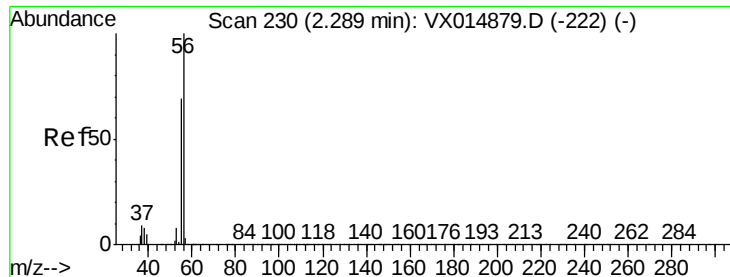
Ion Ratio Lower Upper

142 100

127 35.0 31.1 46.7

141 13.0 11.3 16.9





#13

Acrolein

Concen: 1.49 ug/l

RT: 2.28 min Scan# 229

Delta R.T. -0.01 min

Lab File: VX015065.D

Acq: 02 Mar 2020 11:46

Instrument :

MSVOA_X

ClientSampled :

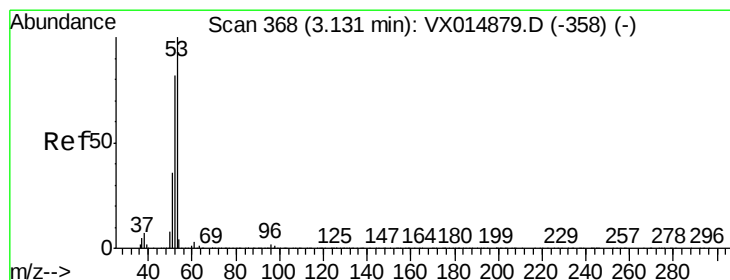
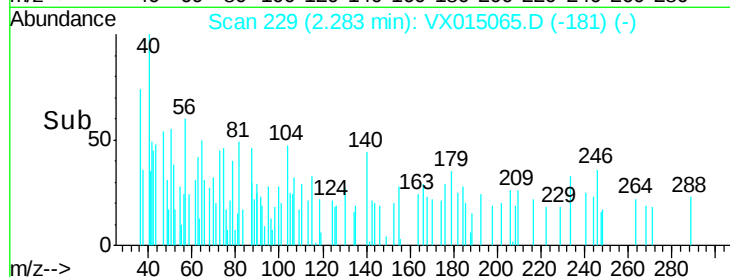
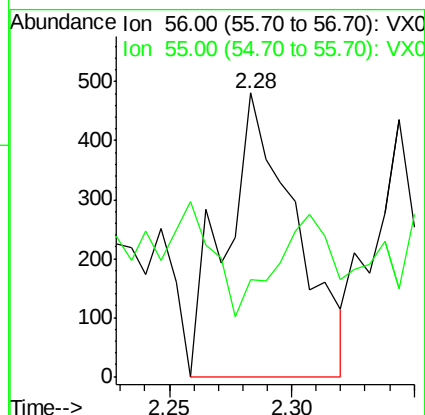
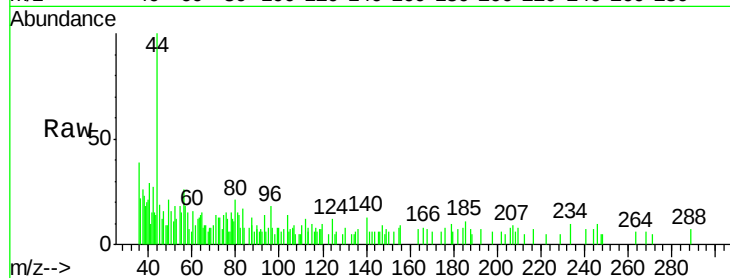
A2828

Tgt Ion: 56 Resp: 955

Ion Ratio Lower Upper

56 100

55 0.0 55.0 82.4#



#15

Acrylonitrile

Concen: 0.29 ug/l

RT: 3.15 min Scan# 371

Delta R.T. 0.02 min

Lab File: VX015065.D

Acq: 02 Mar 2020 11:46

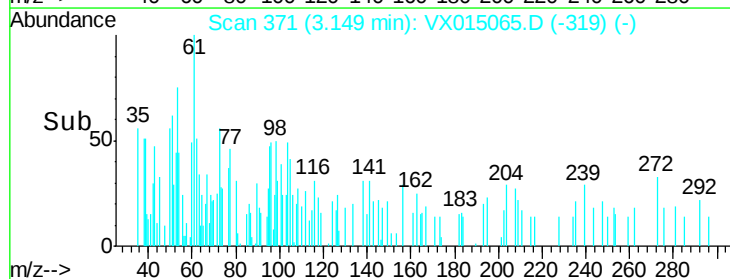
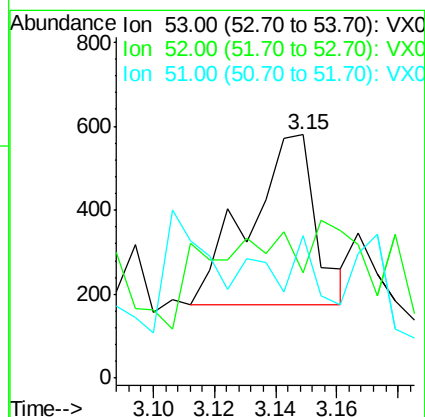
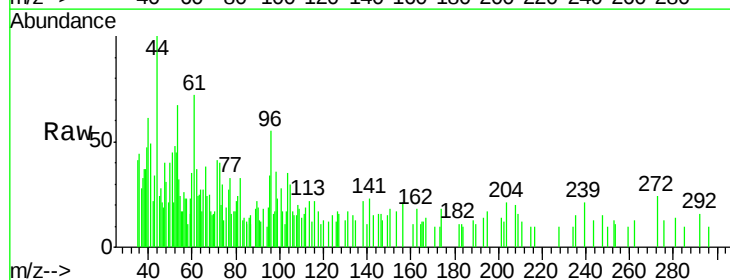
Tgt Ion: 53 Resp: 619

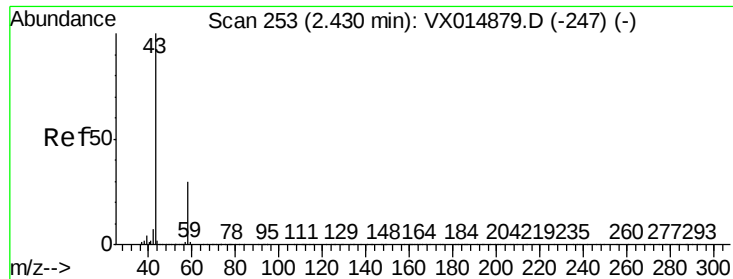
Ion Ratio Lower Upper

53 100

52 54.9 65.8 98.6#

51 0.0 29.1 43.7#





#16

Acetone

Concen: Below Cal

RT: 2.43 min Scan# 253

Delta R.T. 0.00 min

Lab File: VX015065.D

Acq: 02 Mar 2020 11:46

Instrument :

MSVOA_X

ClientSampleId :

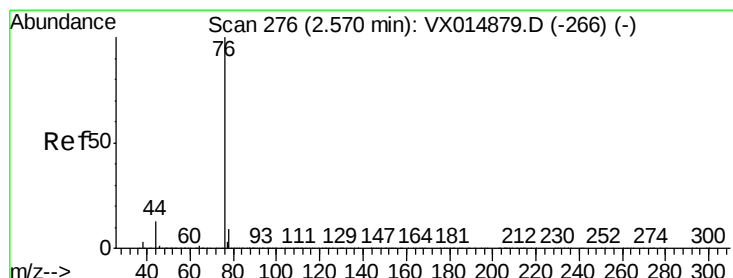
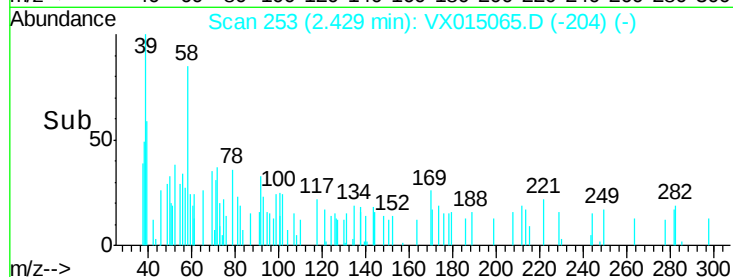
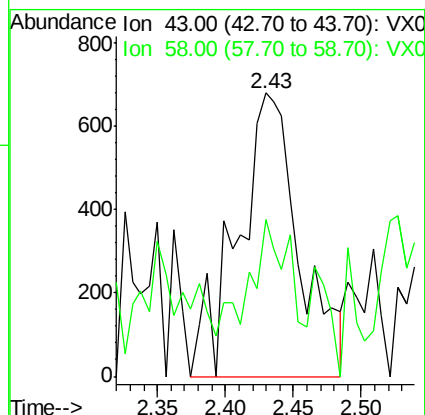
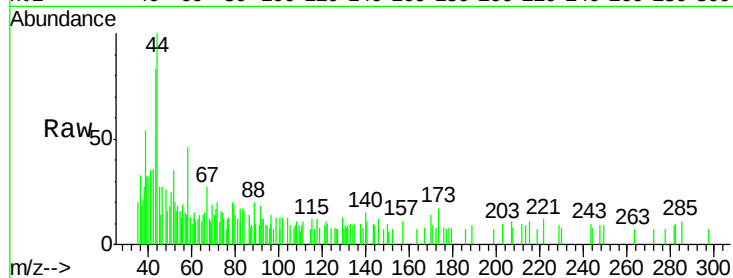
A2828

Tgt Ion: 43 Resp: 2145

Ion Ratio Lower Upper

43 100

58 55.4 24.1 36.1#



#17

Carbon Disulfide

Concen: 0.25 ug/l

RT: 2.56 min Scan# 275

Delta R.T. -0.01 min

Lab File: VX015065.D

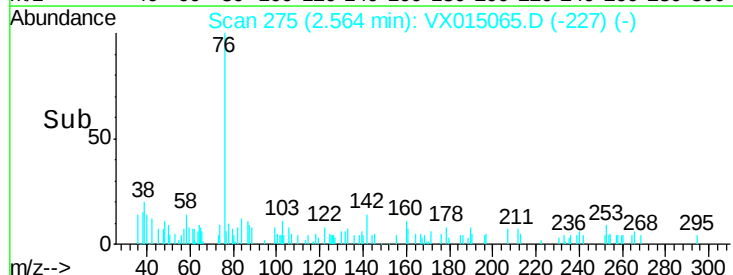
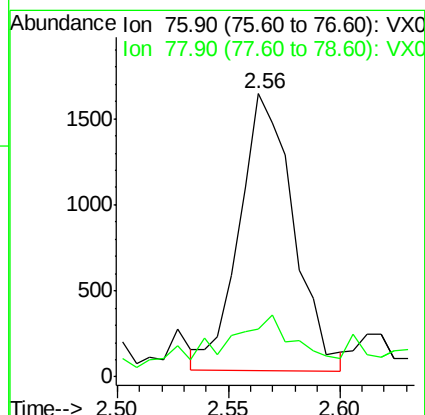
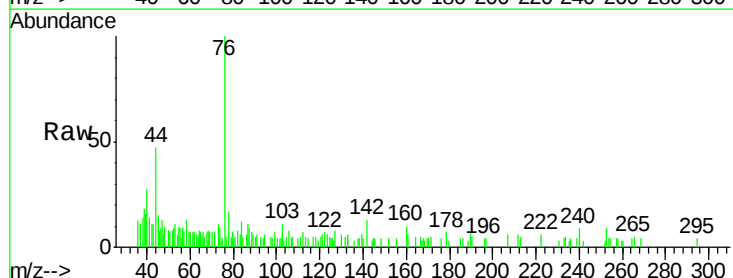
Acq: 02 Mar 2020 11:46

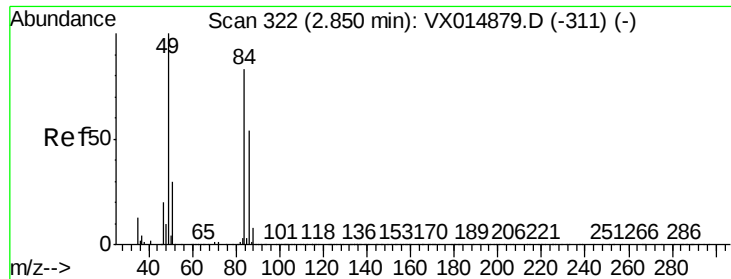
Tgt Ion: 76 Resp: 2714

Ion Ratio Lower Upper

76 100

78 11.9 7.4 11.0#

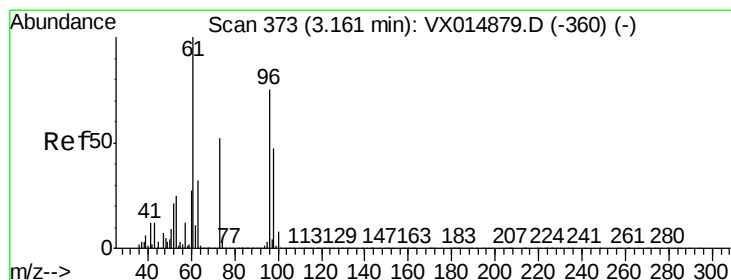
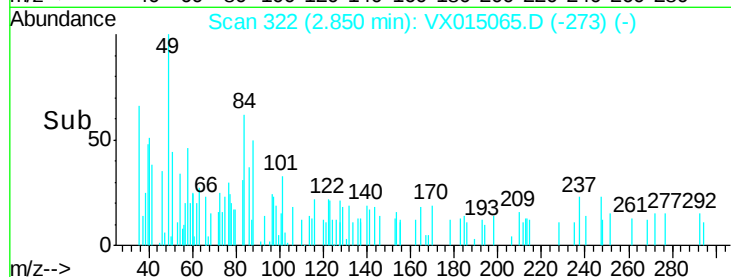
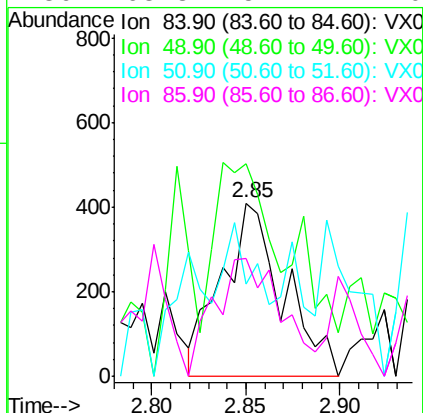
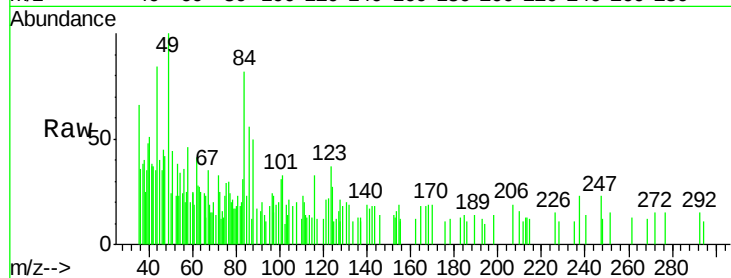




#20
Methylene Chloride
Concen: 0.20 ug/l
RT: 2.85 min Scan# 322
Delta R.T. -0.00 min
Lab File: VX015065.D
Acq: 02 Mar 2020 11:46

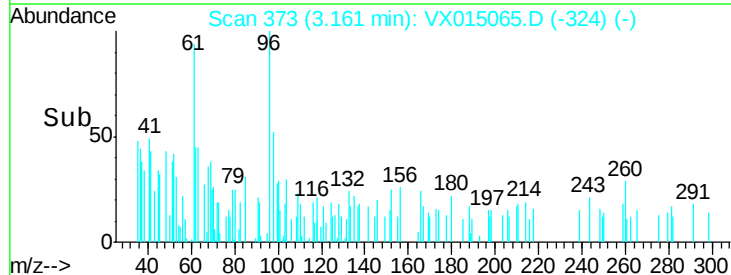
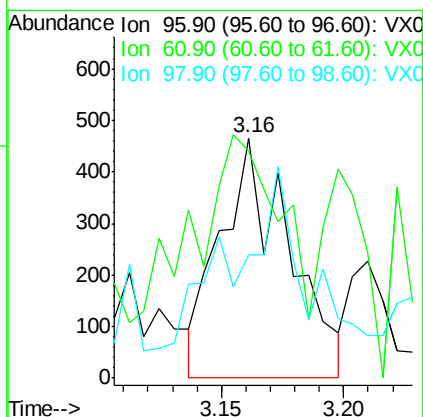
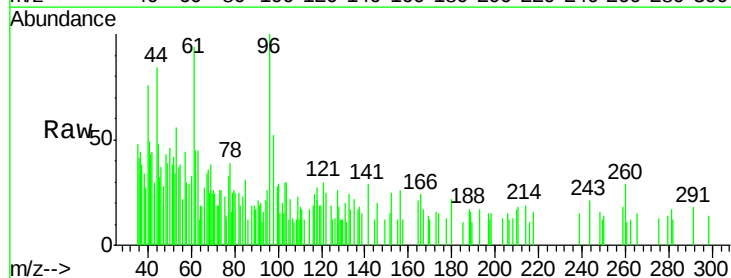
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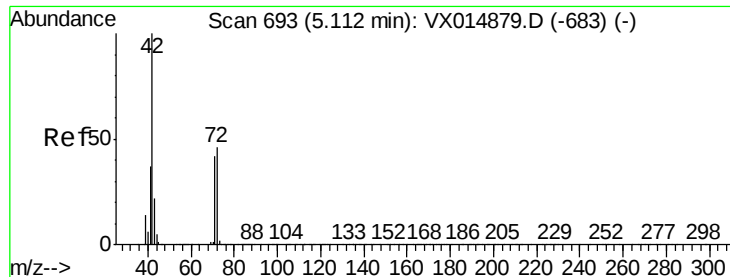
Tgt Ion: 84 Resp: 929
Ion Ratio Lower Upper
84 100
49 97.6 95.6 143.4
51 0.0 29.0 43.6#
86 68.3 51.4 77.0



#21
trans-1,2-Dichloroethene
Concen: 0.21 ug/l
RT: 3.16 min Scan# 373
Delta R.T. -0.00 min
Lab File: VX015065.D
Acq: 02 Mar 2020 11:46

Tgt Ion: 96 Resp: 905
Ion Ratio Lower Upper
96 100
61 29.8 106.9 160.3#
98 33.0 50.7 76.1#

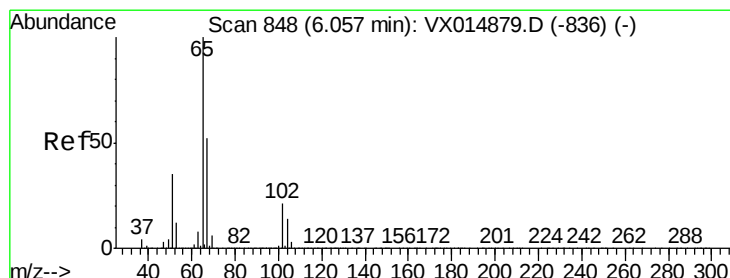
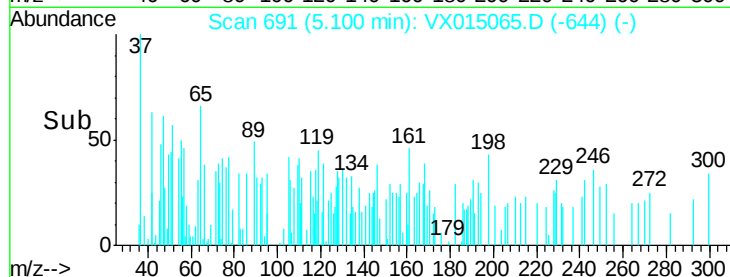
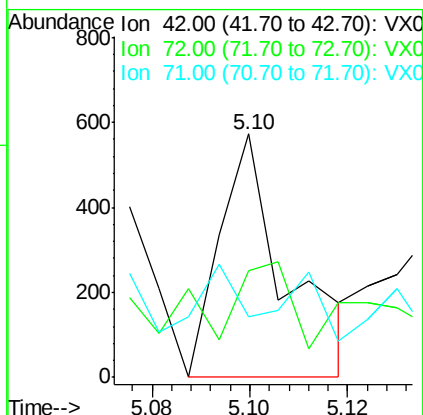
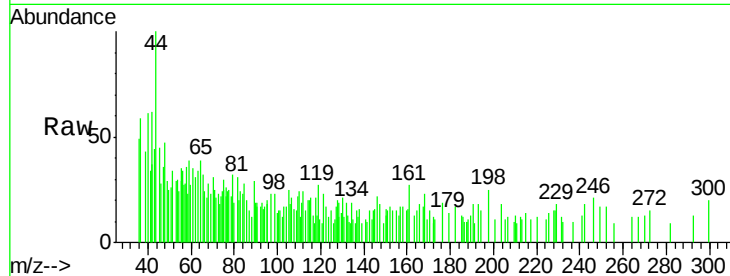




#29
Tetrahydrofuran
Concen: 0.30 ug/l
RT: 5.10 min Scan# 691
Delta R.T. -0.01 min
Lab File: VX015065.D
Acq: 02 Mar 2020 11:46

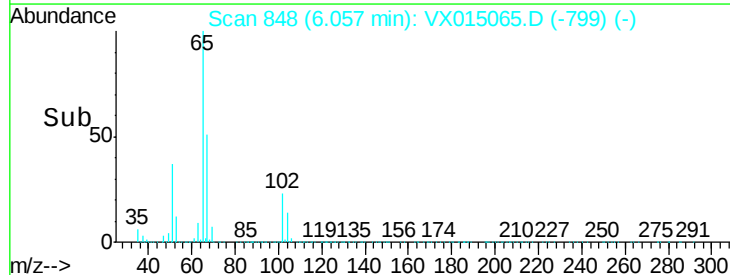
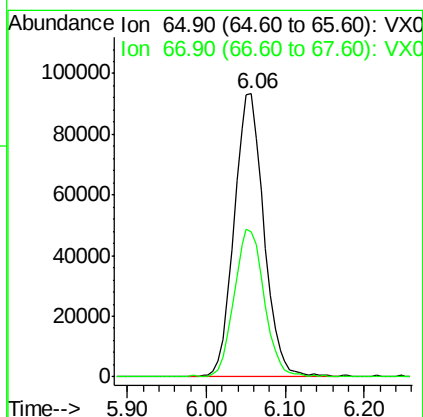
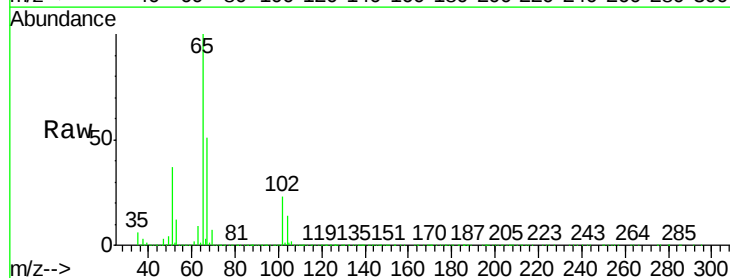
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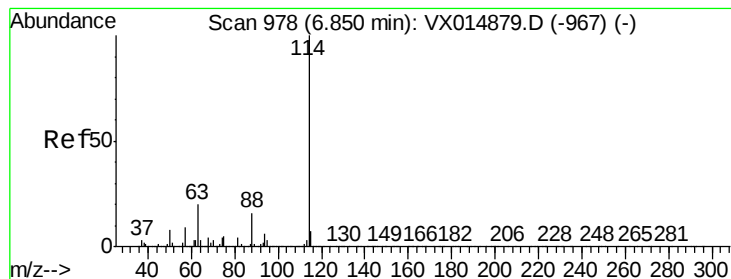
Tgt Ion: 42 Resp: 545
Ion Ratio Lower Upper
42 100
72 31.4 36.9 55.3#
71 25.1 34.1 51.1#



#33
1,2-Dichloroethane-d4
Concen: 51.60 ug/l
RT: 6.06 min Scan# 848
Delta R.T. -0.00 min
Lab File: VX015065.D
Acq: 02 Mar 2020 11:46

Tgt Ion: 65 Resp: 245520
Ion Ratio Lower Upper
65 100
67 52.2 0.0 103.0





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.85 min Scan# 978

Delta R.T. -0.00 min

Lab File: VX015065.D

Acq: 02 Mar 2020 11:46

Instrument :

MSVOA_X

ClientSampleId :

A2828

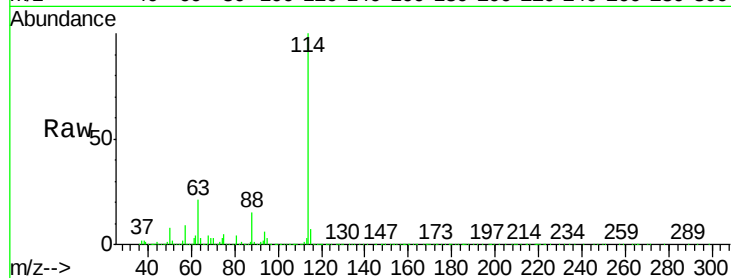
Tgt Ion:114 Resp: 675395

Ion Ratio Lower Upper

114 100

63 20.7 0.0 39.2

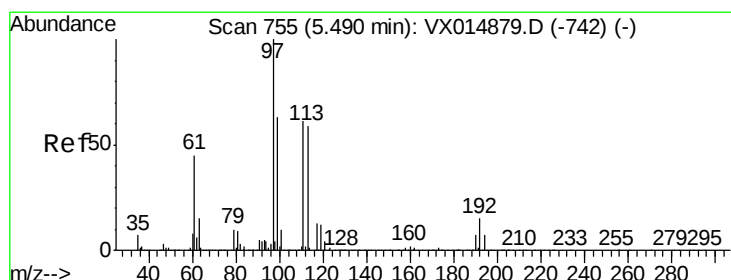
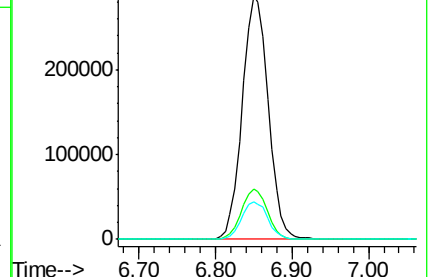
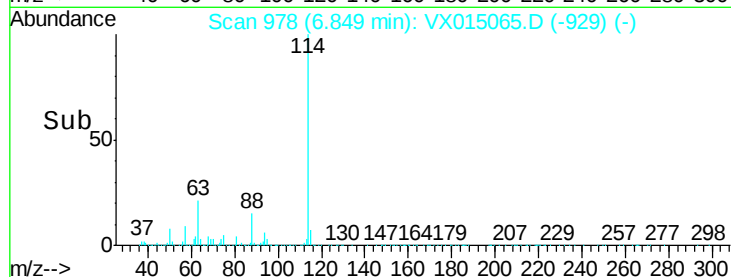
88 15.5 0.0 32.0



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: 50.01 ug/l

RT: 5.49 min Scan# 755

Delta R.T. -0.00 min

Lab File: VX015065.D

Acq: 02 Mar 2020 11:46

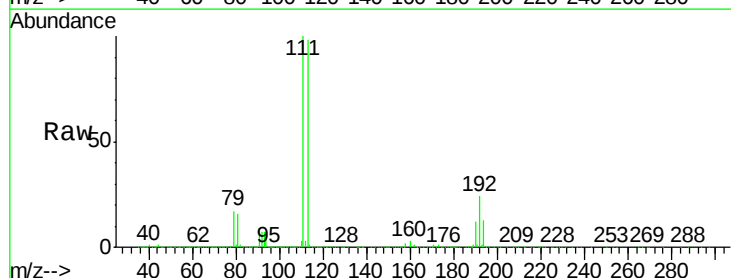
Tgt Ion:113 Resp: 207654

Ion Ratio Lower Upper

113 100

111 103.1 82.4 123.6

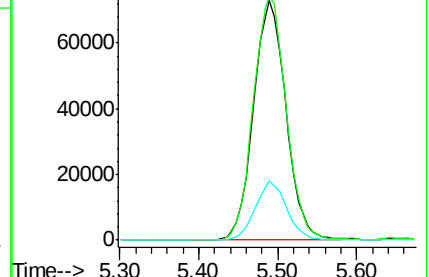
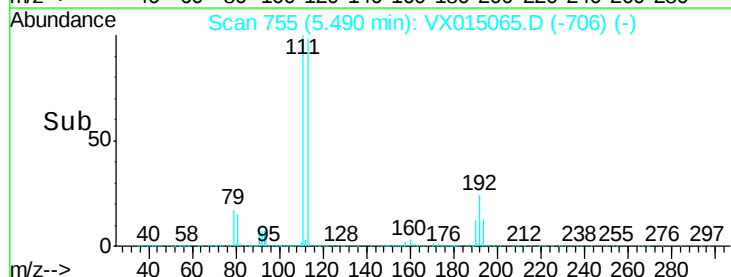
192 24.0 19.1 28.7

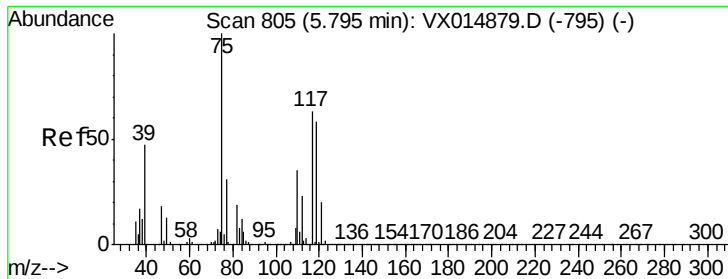


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

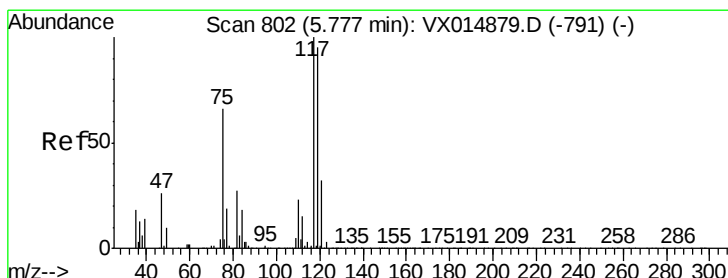
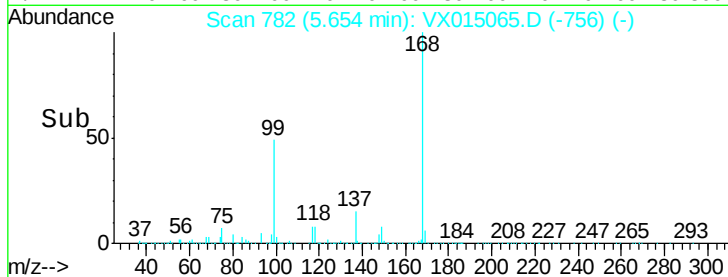
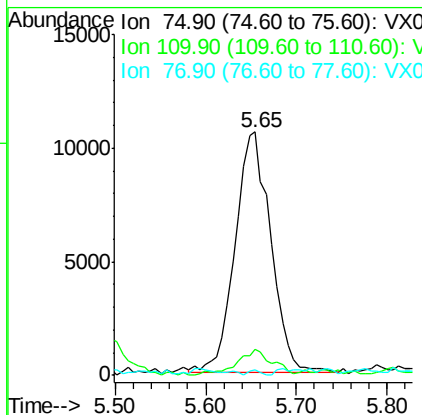
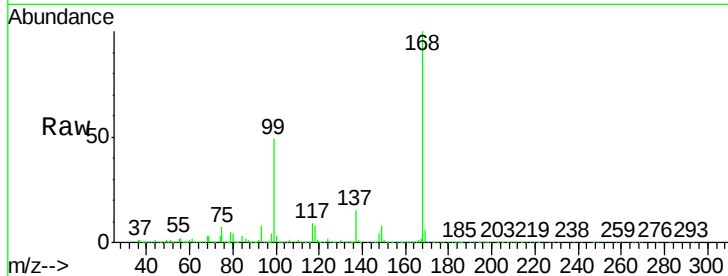




#36
 1,1-Dichloropropene
 Concen: 4.79 ug/l
 RT: 5.65 min Scan# 782
 Delta R.T. -0.14 min
 Lab File: VX015065.D
 Acq: 02 Mar 2020 11:46

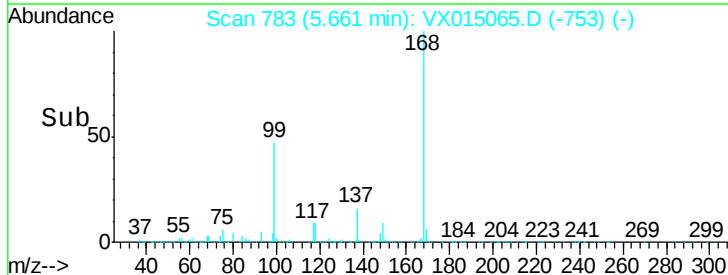
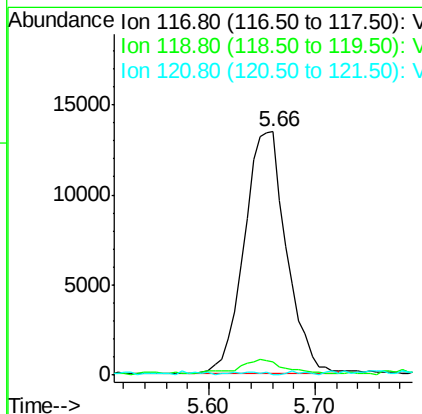
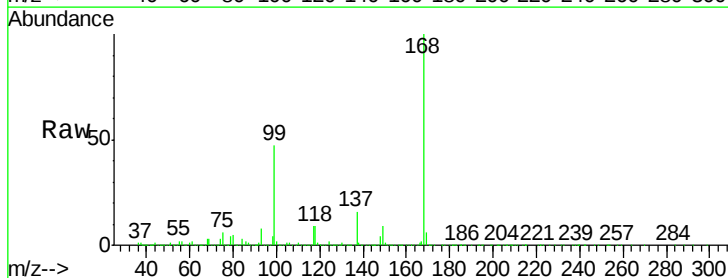
Instrument :
 MSVOA_X
 ClientSampled :
 A2828

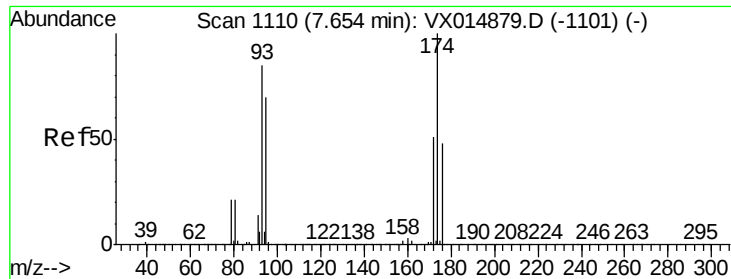
Tgt Ion	Ratio	Lower	Upper
75	100		
110	10.8	18.3	54.8#
77	0.7	24.6	36.8#



#38
 Carbon Tetrachloride
 Concen: 6.33 ug/l
 RT: 5.66 min Scan# 783
 Delta R.T. -0.12 min
 Lab File: VX015065.D
 Acq: 02 Mar 2020 11:46

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.0	76.0	114.0#
121	0.0	25.4	38.2#





#46

Dibromomethane

Concen: 0.26 ug/l

RT: 7.66 min Scan# 1111

Delta R.T. 0.01 min

Lab File: VX015065.D

Acq: 02 Mar 2020 11:46

Instrument :

MSVOA_X

ClientSampled :

A2828

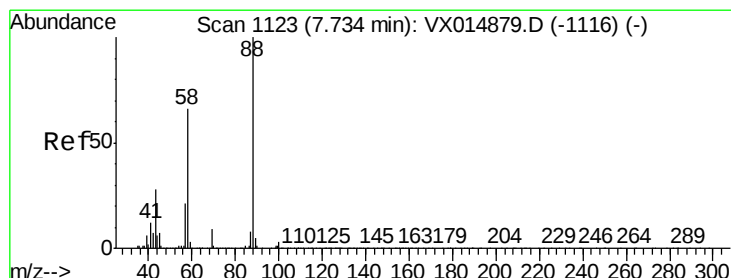
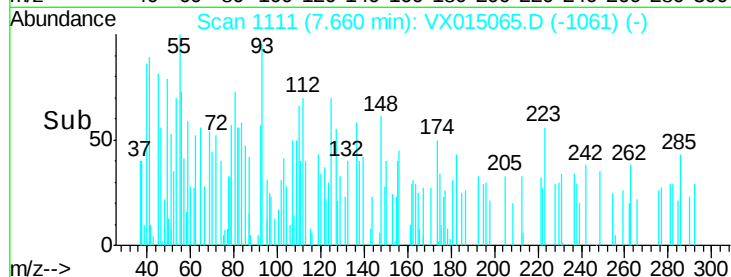
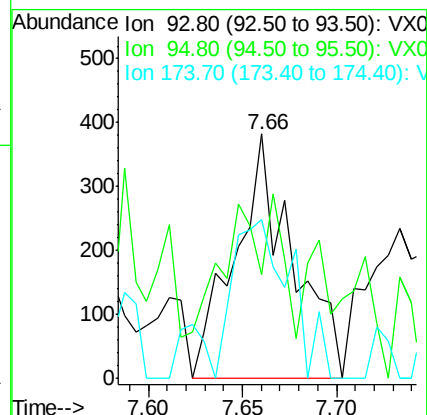
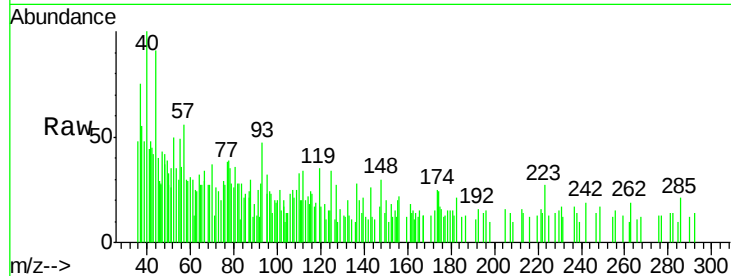
Tgt Ion: 93 Resp: 804

Ion Ratio Lower Upper

93 100

95 51.5 65.8 98.8#

174 65.3 95.4 143.2#



#49

1,4-Dioxane

Concen: 3.27 ug/l

RT: 7.73 min Scan# 1123

Delta R.T. -0.00 min

Lab File: VX015065.D

Acq: 02 Mar 2020 11:46

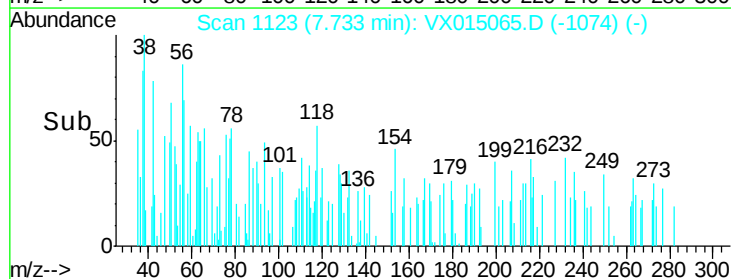
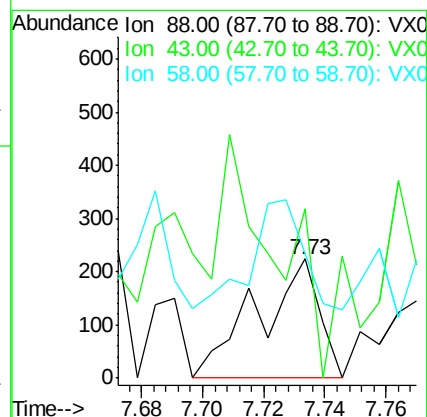
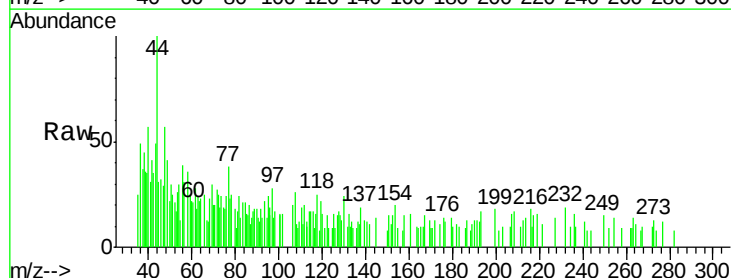
Tgt Ion: 88 Resp: 313

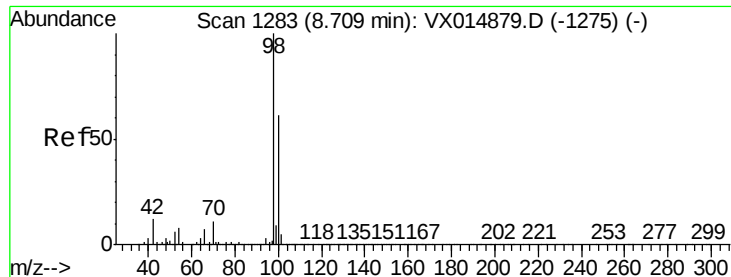
Ion Ratio Lower Upper

88 100

43 0.0 27.0 40.4#

58 80.5 53.2 79.8#





#50

Toluene-d8

Concen: 52.03 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VX015065.D

Acq: 02 Mar 2020 11:46

Instrument :

MSVOA_X

ClientSampleId :

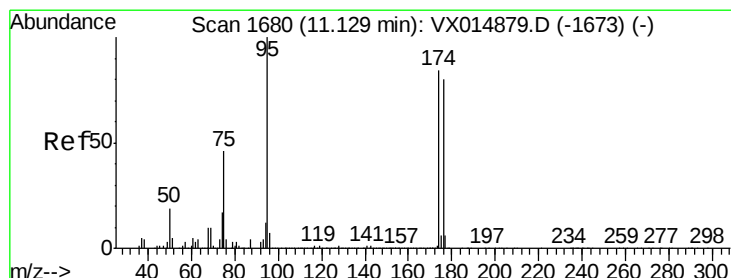
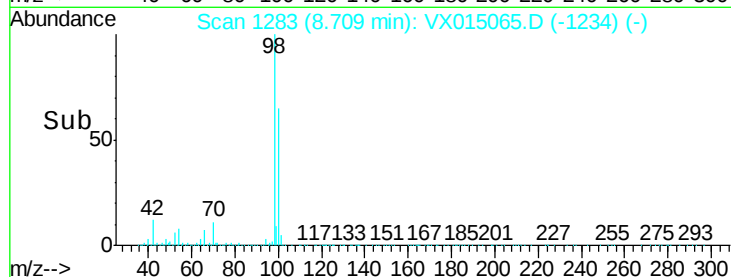
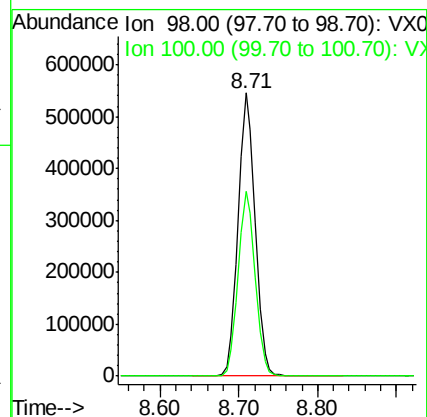
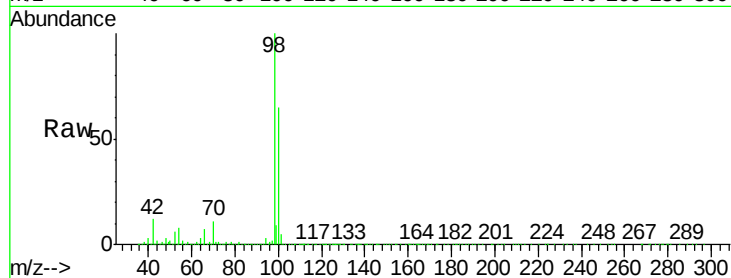
A2828

Tgt Ion: 98 Resp: 824579

Ion Ratio Lower Upper

98 100

100 65.4 52.4 78.6



#62

4-Bromofluorobenzene

Concen: 52.69 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.00 min

Lab File: VX015065.D

Acq: 02 Mar 2020 11:46

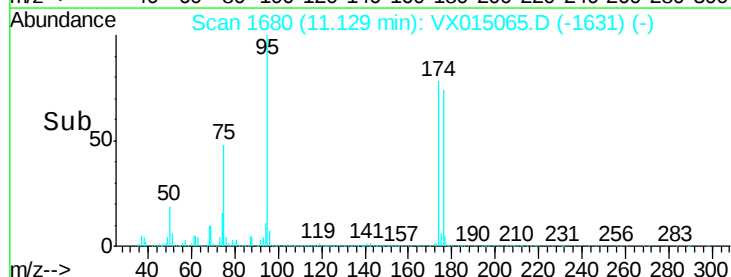
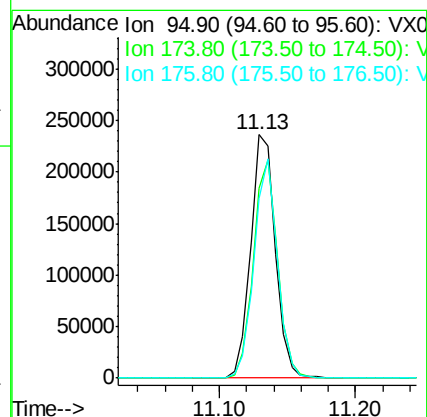
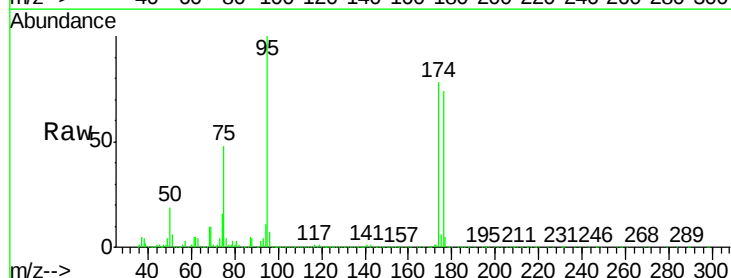
Tgt Ion: 95 Resp: 300850

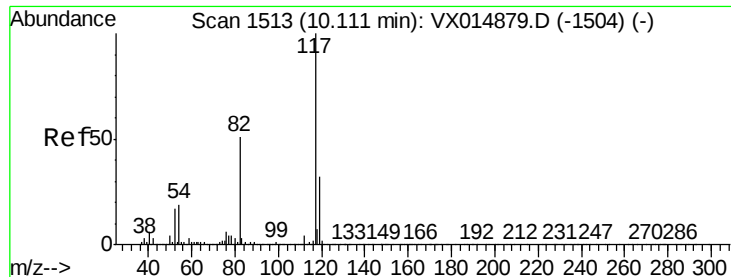
Ion Ratio Lower Upper

95 100

174 88.0 0.0 183.0

176 85.9 0.0 178.0

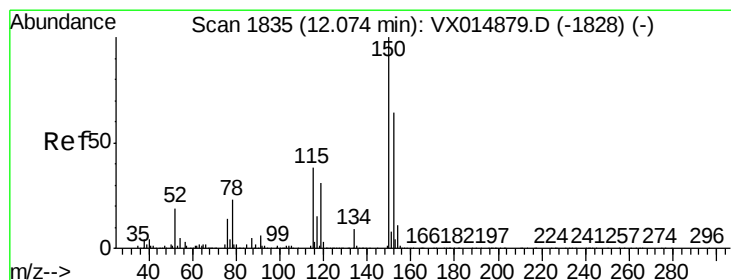
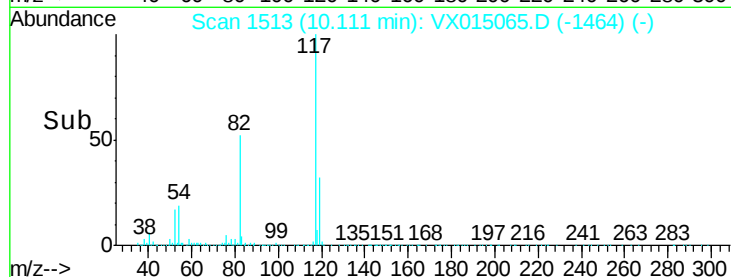
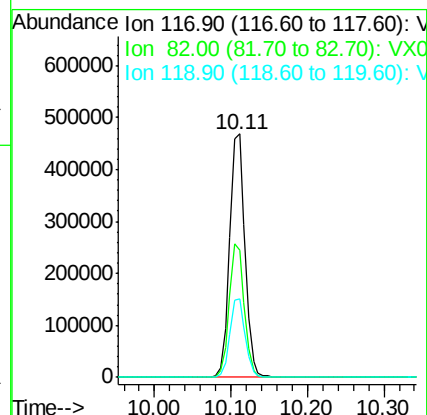
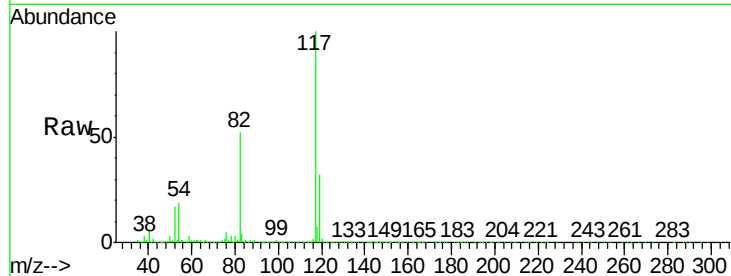




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. -0.00 min
Lab File: VX015065.D
Acq: 02 Mar 2020 11:46

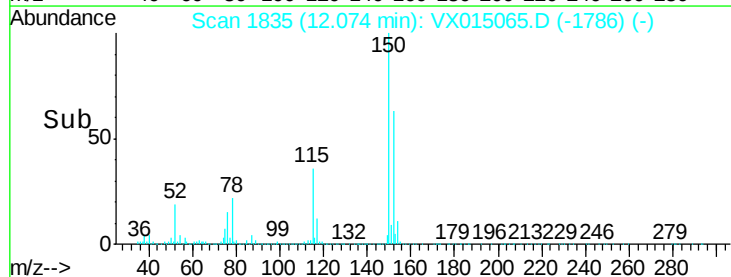
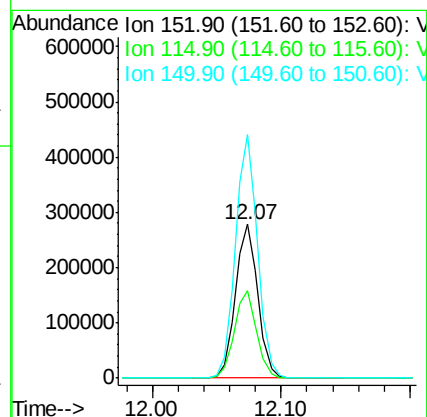
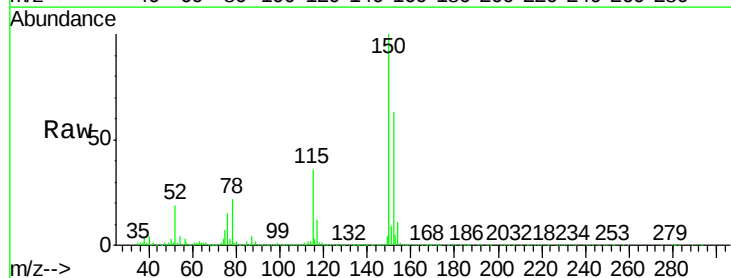
Instrument :
MSVOA_X
ClientSampleId :
A2828

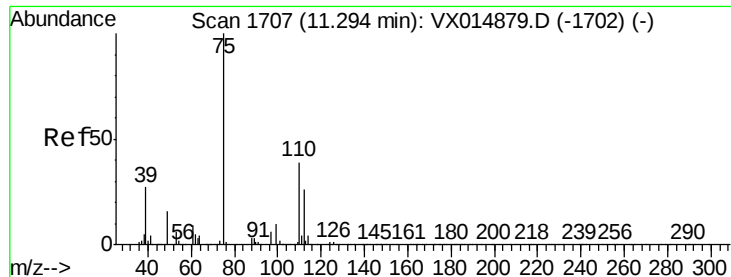
Tgt Ion:117 Resp: 651054
Ion Ratio Lower Upper
117 100
82 52.2 40.5 60.7
119 32.3 25.8 38.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. -0.00 min
Lab File: VX015065.D
Acq: 02 Mar 2020 11:46

Tgt Ion:152 Resp: 337306
Ion Ratio Lower Upper
152 100
115 56.4 38.6 116.0
150 157.1 0.0 349.0





#76

1,2,3-Trichloropropane

Concen: 24.15 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX015065.D

Acq: 02 Mar 2020 11:46

Instrument :

MSVOA_X

ClientSampled :

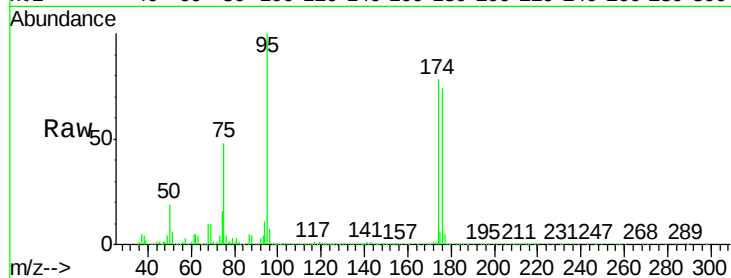
A2828

Tgt Ion: 75 Resp: 147309

Ion Ratio Lower Upper

75 100

77 1.5 18.4 55.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

11.13

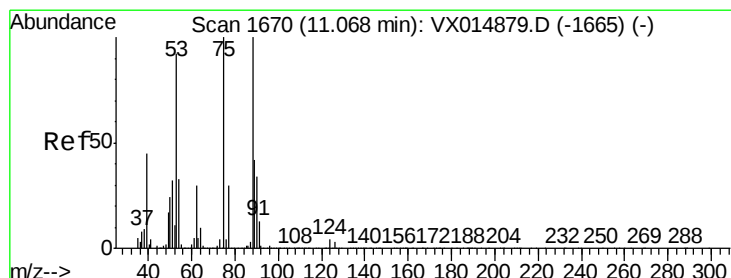
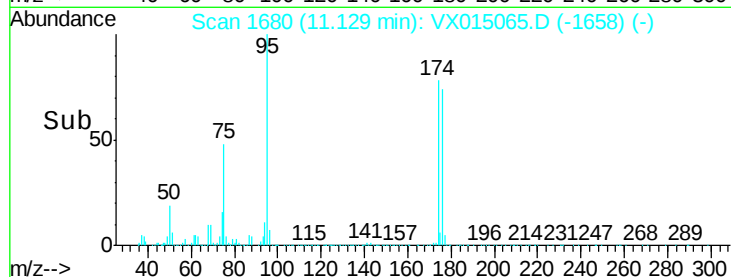
100000

50000

0

Time-->

11.10 11.20



#81

trans-1,4-Dichloro-2-butene

Concen: 61.82 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX015065.D

Acq: 02 Mar 2020 11:46

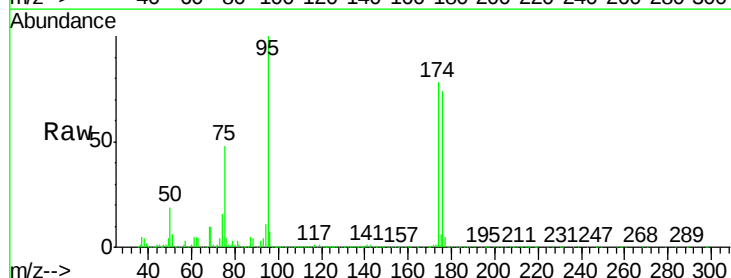
Tgt Ion: 75 Resp: 147309

Ion Ratio Lower Upper

75 100

53 0.1 76.2 114.2#

89 0.0 35.8 53.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

150000

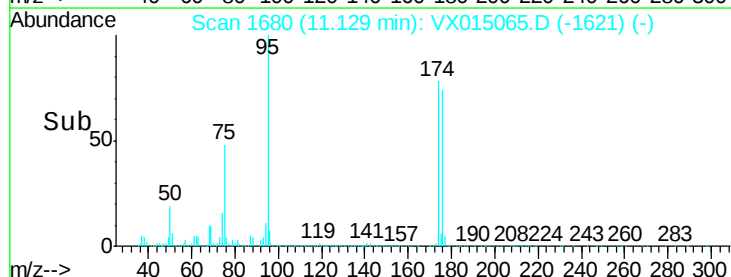
100000

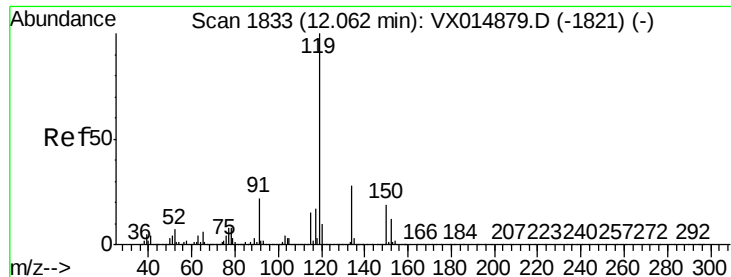
50000

0

Time-->

11.10 11.20

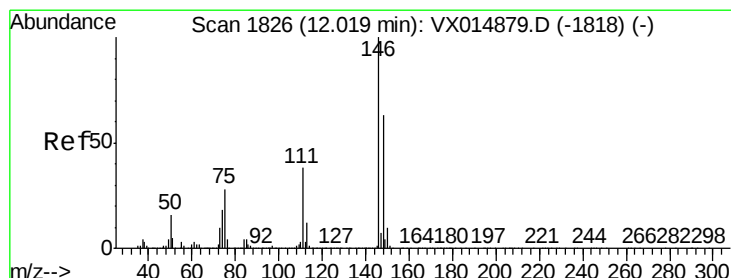
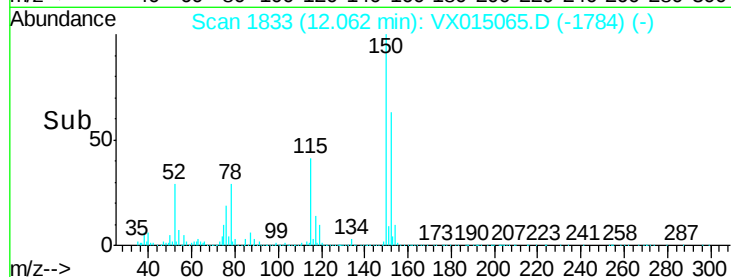
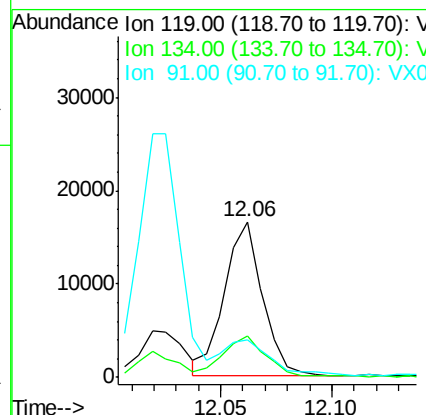
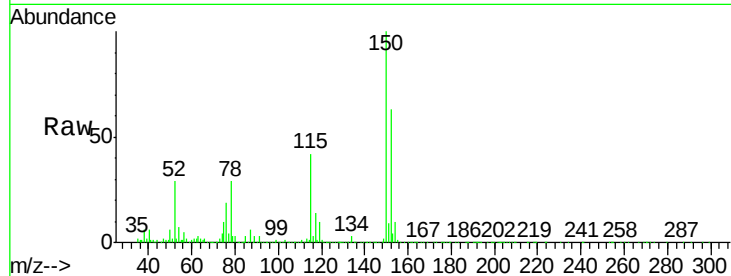




#86
p-Isopropyltoluene
Concen: 1.01 ug/l
RT: 12.06 min Scan# 1833
Delta R.T. -0.00 min
Lab File: VX015065.D
Acq: 02 Mar 2020 11:46

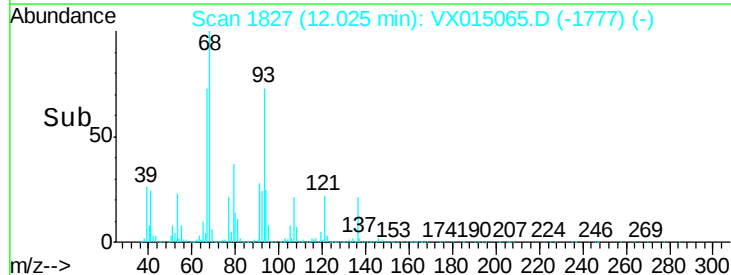
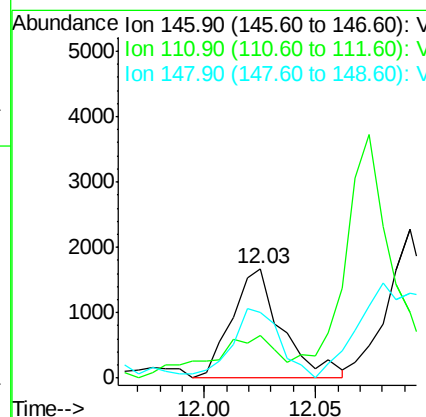
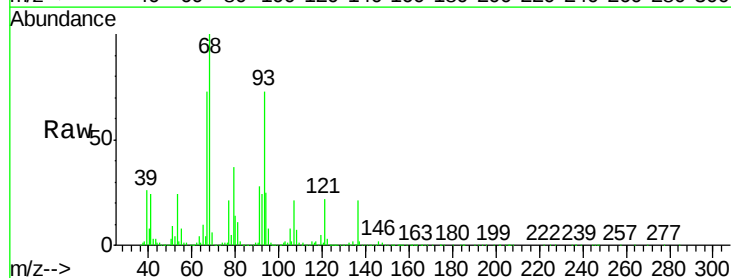
Instrument :
MSVOA_X
ClientSampleId :
A2828

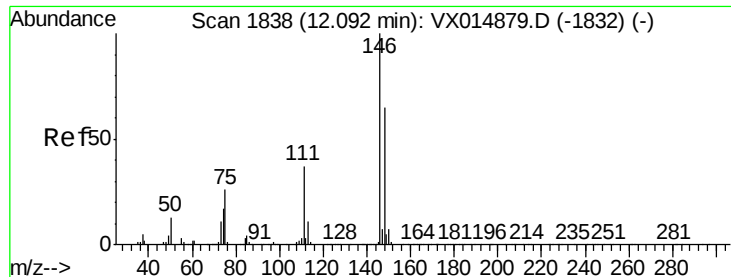
Tgt Ion	Ratio	Lower	Upper
119	100		
134	30.0	13.5	40.5
91	25.6	11.4	34.1



#87
1,3-Dichlorobenzene
Concen: 0.25 ug/l
RT: 12.03 min Scan# 1827
Delta R.T. 0.01 min
Lab File: VX015065.D
Acq: 02 Mar 2020 11:46

Tgt Ion	Ratio	Lower	Upper
146	100		
111	52.0	18.6	56.0
148	59.9	31.8	95.4

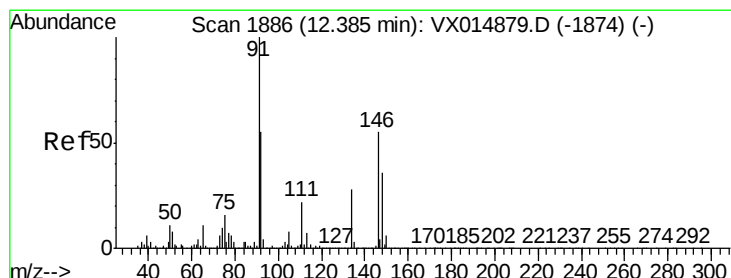
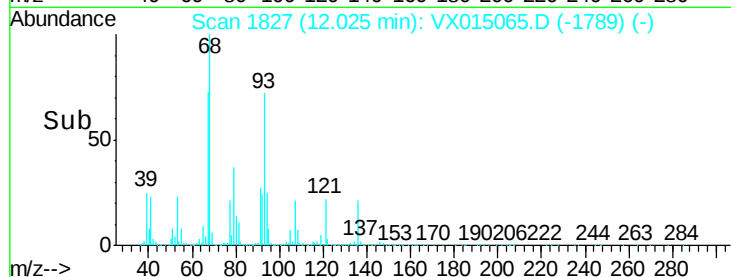
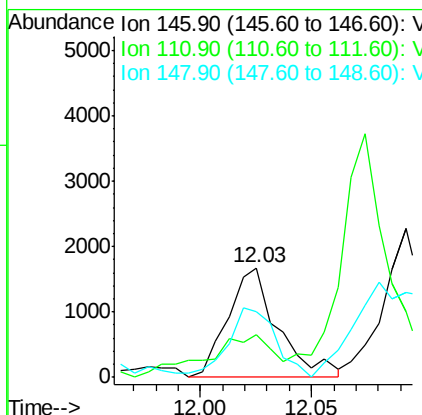
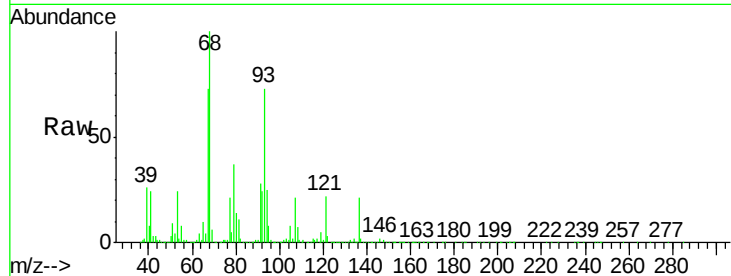




#88
 1,4-Dichlorobenzene
 Concen: 0.24 ug/l
 RT: 12.03 min Scan# 1827
 Delta R.T. -0.07 min
 Lab File: VX015065.D
 Acq: 02 Mar 2020 11:46

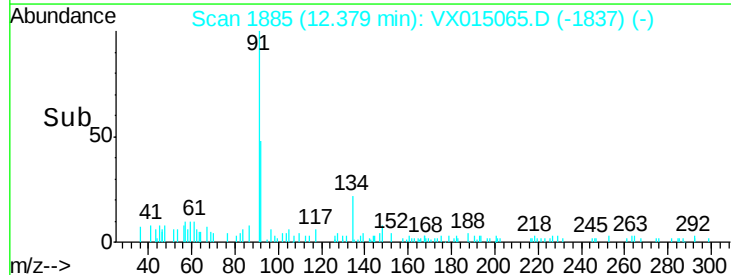
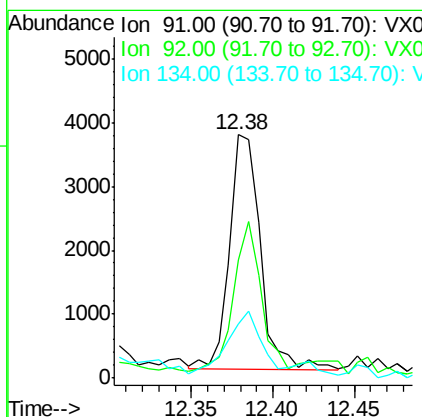
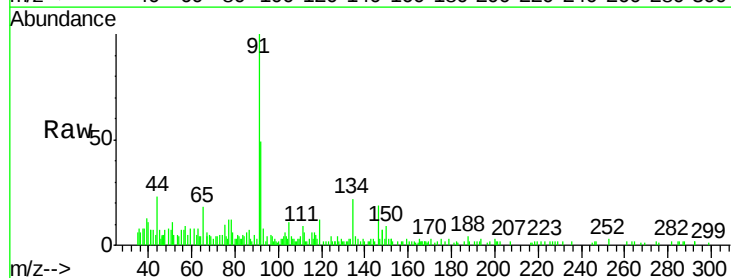
Instrument :
 MSVOA_X
 ClientSampleId :
 A2828

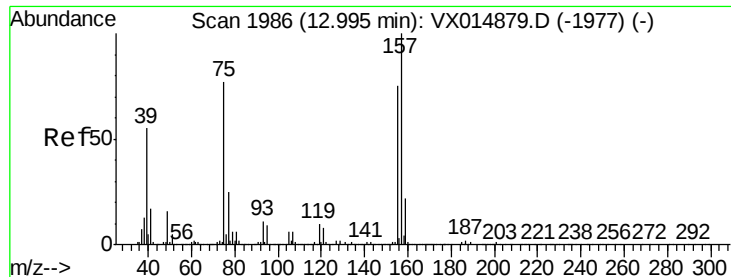
Tgt Ion: 146 Resp: 2621
 Ion Ratio Lower Upper
 146 100
 111 52.0 18.6 55.6
 148 59.9 32.4 97.0



#89
 n-Butylbenzene
 Concen: 0.28 ug/l
 RT: 12.38 min Scan# 1885
 Delta R.T. -0.01 min
 Lab File: VX015065.D
 Acq: 02 Mar 2020 11:46

Tgt Ion: 91 Resp: 4845
 Ion Ratio Lower Upper
 91 100
 92 56.5 27.3 81.8
 134 29.6 13.8 41.4

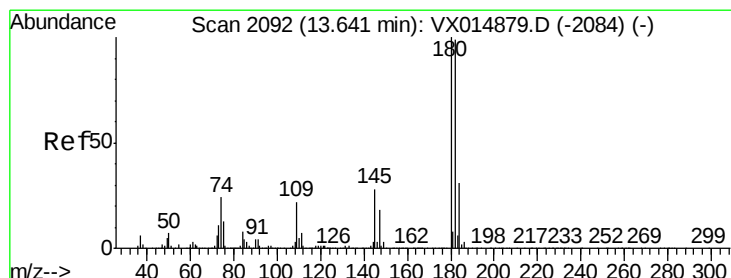
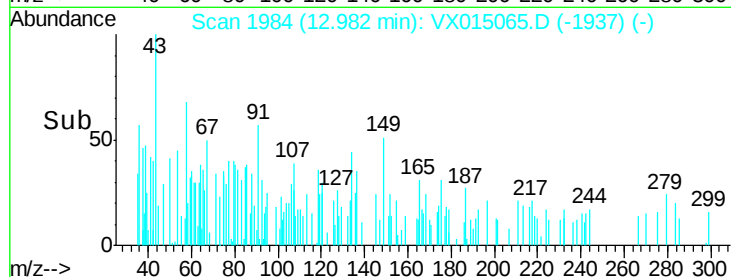
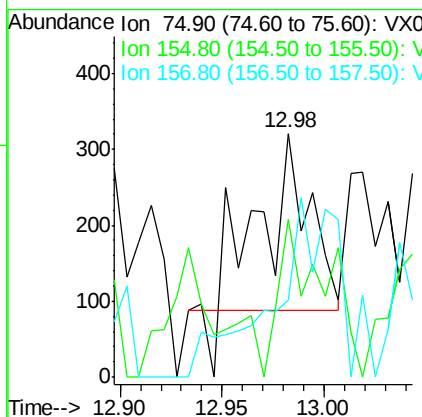
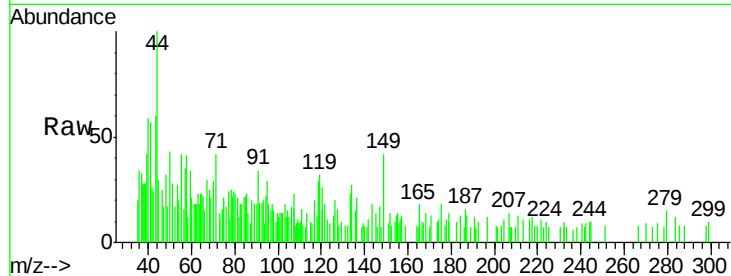




#92
 1,2-Dibromo-3-Chloropropane
 Concen: 0.23 ug/l
 RT: 12.98 min Scan# 1984
 Delta R.T. -0.01 min
 Lab File: VX015065.D
 Acq: 02 Mar 2020 11:46

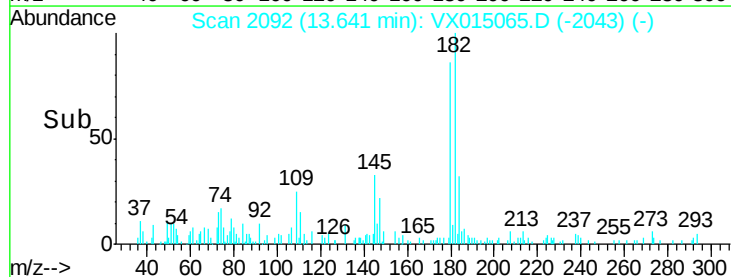
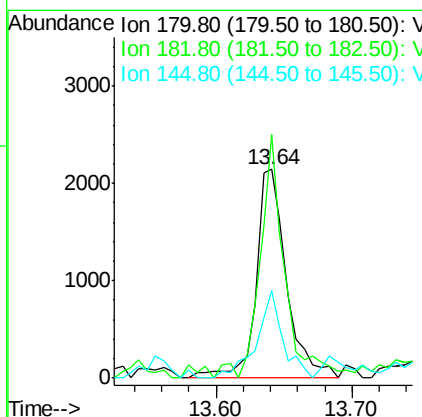
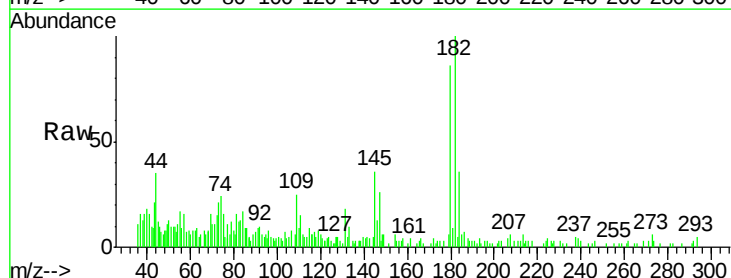
Instrument :
 MSVOA_X
 ClientSampled :
 A2828

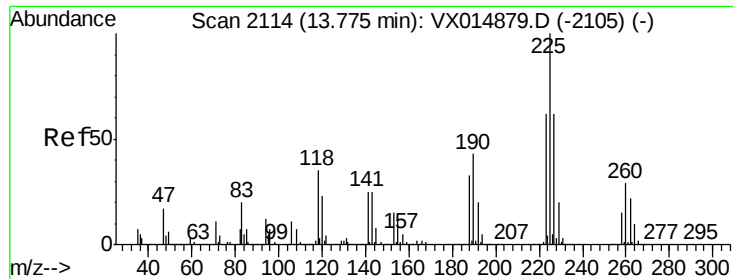
Tgt Ion: 75 Resp: 375
 Ion Ratio Lower Upper
 75 100
 155 86.9 48.6 145.9
 157 145.1 62.0 186.0



#93
 1,2,4-Trichlorobenzene
 Concen: 0.44 ug/l
 RT: 13.64 min Scan# 2092
 Delta R.T. -0.00 min
 Lab File: VX015065.D
 Acq: 02 Mar 2020 11:46

Tgt Ion: 180 Resp: 3369
 Ion Ratio Lower Upper
 180 100
 182 96.1 48.4 145.3
 145 36.2 14.1 42.4





#94

Hexachlorobutadiene

Concen: 0.43 ug/l

RT: 13.78 min Scan# 2115

Delta R.T. 0.01 min

Lab File: VX015065.D

Acq: 02 Mar 2020 11:46

Instrument :

MSVOA_X

ClientSampled :

A2828

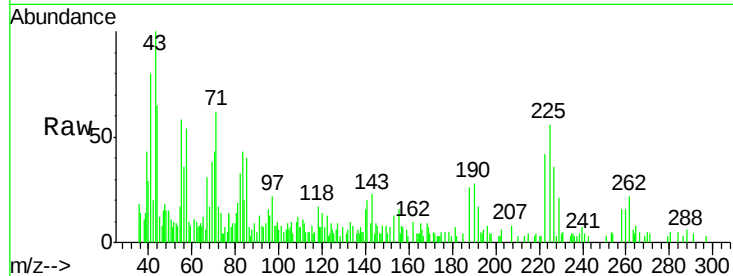
Tgt Ion:225 Resp: 1593

Ion Ratio Lower Upper

225 100

223 91.6 31.1 93.2

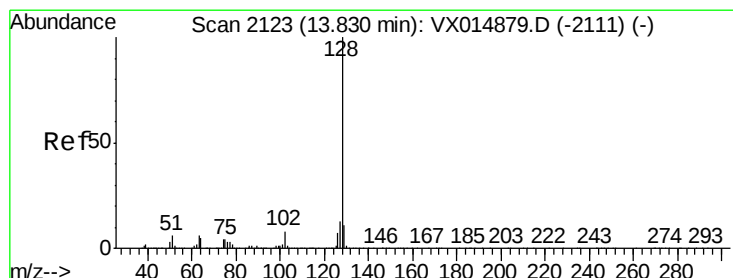
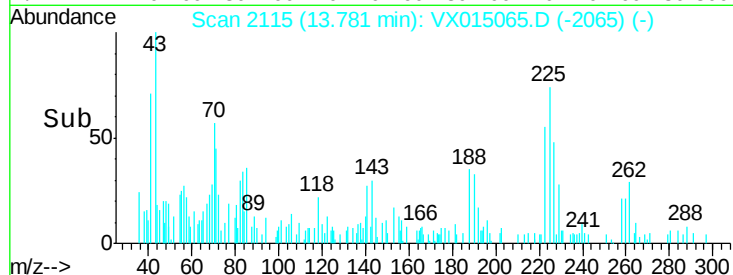
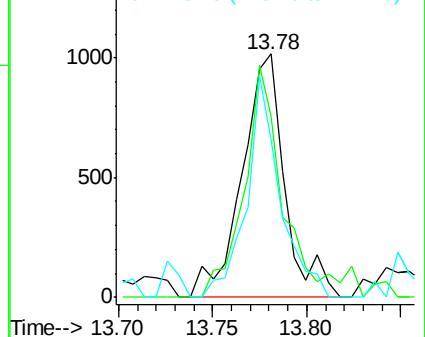
227 71.1 30.9 92.5



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: 0.39 ug/l

RT: 13.83 min Scan# 2123

Delta R.T. -0.00 min

Lab File: VX015065.D

Acq: 02 Mar 2020 11:46

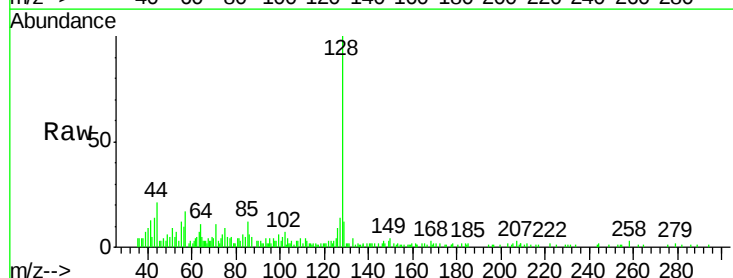
Tgt Ion:128 Resp: 7851

Ion Ratio Lower Upper

128 100

127 11.6 10.4 15.6

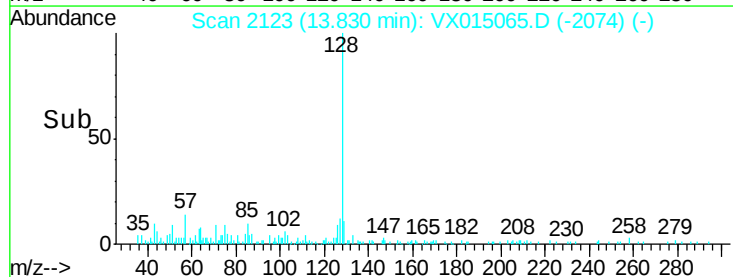
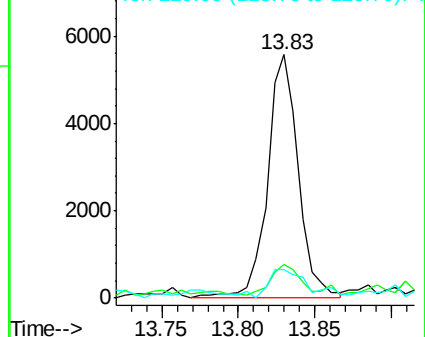
129 14.6 8.6 13.0#

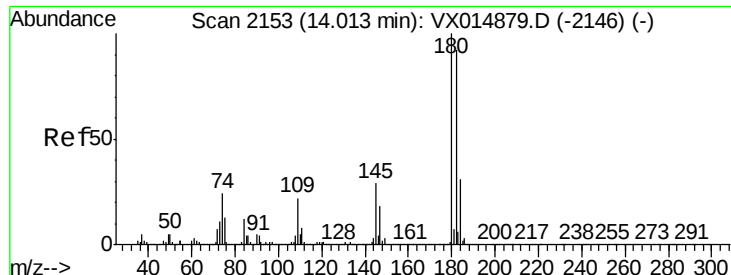


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V





#96
 1,2,3-Trichlorobenzene
 Concen: 0.42 ug/l
 RT: 14.01 min Scan# 2153
 Delta R.T. -0.00 min
 Lab File: VX015065.D
 Acq: 02 Mar 2020 11:46

Instrument :
 MSVOA_X
 ClientSampleId :
 A2828

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.5	47.5	142.6
145	52.2	14.5	43.5

