

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX032720\
 Data File : VX015379.D
 Acq On : 27 Mar 2020 14:20
 Operator : JC/SP
 Sample : L2012-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 GHD1-TB-032020

Quant Time: Mar 30 01:42:36 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X032720W.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 27 09:35:51 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	1163571	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	1911049	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	1796429	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	942081	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.03	65	765588	46.65	ug/l	0.00
Spiked Amount			Recovery	=	93.30%	
35) Dibromofluoromethane	5.47	113	600201	49.13	ug/l	0.00
Spiked Amount			Recovery	=	98.26%	
50) Toluene-d8	8.70	98	2301689	51.18	ug/l	0.00
Spiked Amount			Recovery	=	102.36%	
62) 4-Bromofluorobenzene	11.12	95	968253	52.97	ug/l	0.00
Spiked Amount			Recovery	=	105.94%	

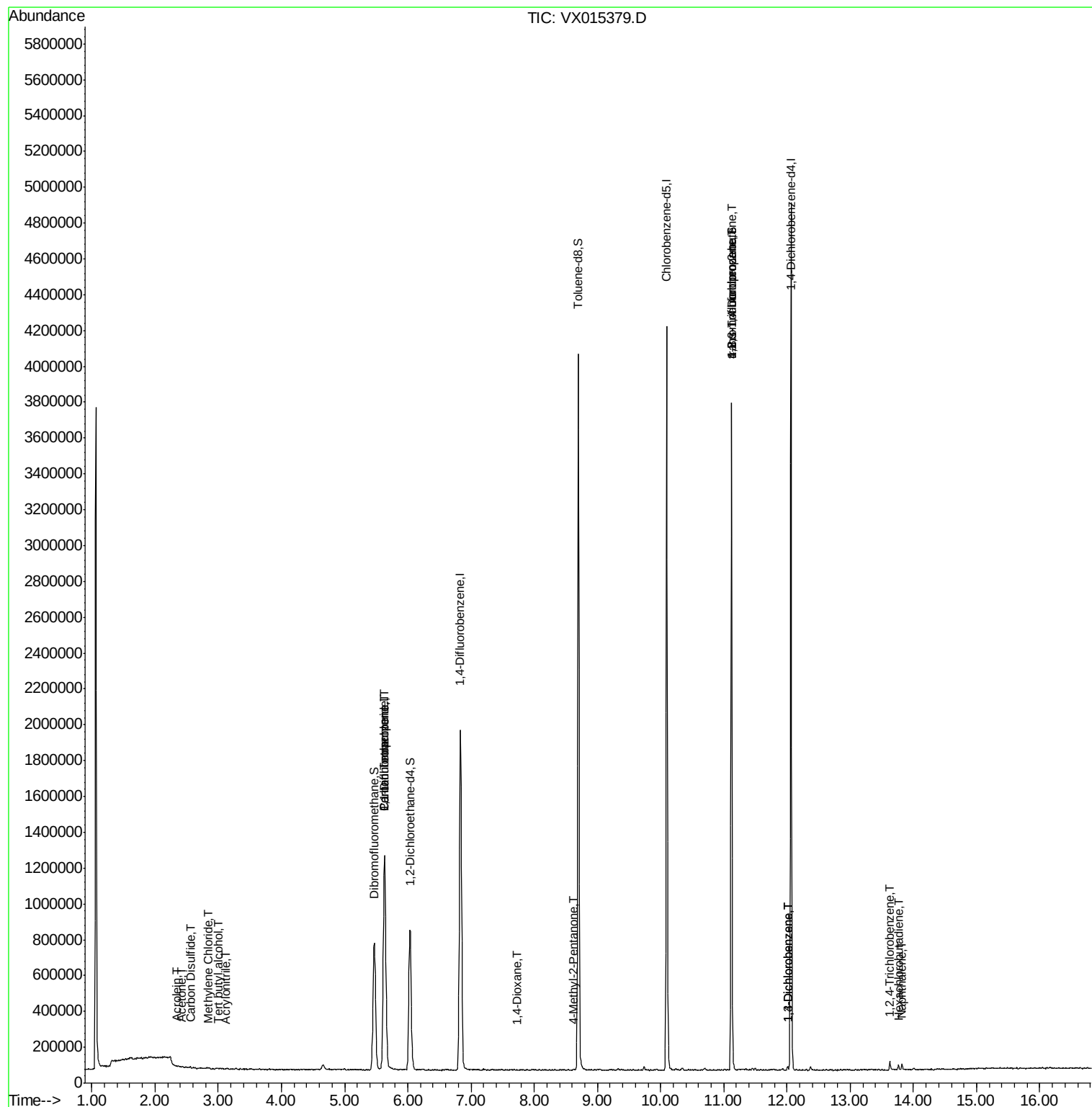
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	1142	Below Cal	#	46
11) Tert butyl alcohol	3.00	59	2294	0.584	ug/l #	72
13) Acrolein	2.34	56	687	0.307	ug/l #	58
15) Acrylonitrile	3.12	53	1538	0.205	ug/l #	55
16) Acetone	2.42	43	3612	0.512	ug/l #	53
17) Carbon Disulfide	2.55	76	6801	0.203	ug/l #	86
20) Methylene Chloride	2.84	84	3187	0.242	ug/l #	55
36) 1,1-Dichloropropene	5.63	75	89987	5.111	ug/l #	52
38) Carbon Tetrachloride	5.63	117	112885	5.919	ug/l #	15
49) 1,4-Dioxane	7.73	88	1046	2.900	ug/l	93
51) 4-Methyl-2-Pentanone	8.62	43	4468	0.204	ug/l	97
76) 1,2,3-Trichloropropane	11.12	75	504034	26.017	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.12	75	504034	62.427	ug/l #	10
87) 1,3-Dichlorobenzene	12.01	146	6542	0.222	ug/l	88
88) 1,4-Dichlorobenzene	12.01	146	6522	0.217	ug/l	88
93) 1,2,4-Trichlorobenzene	13.63	180	12269	0.538	ug/l	88
94) Hexachlorobutadiene	13.77	225	3628	0.334	ug/l	73
95) Naphthalene	13.82	128	21158	0.304	ug/l #	93

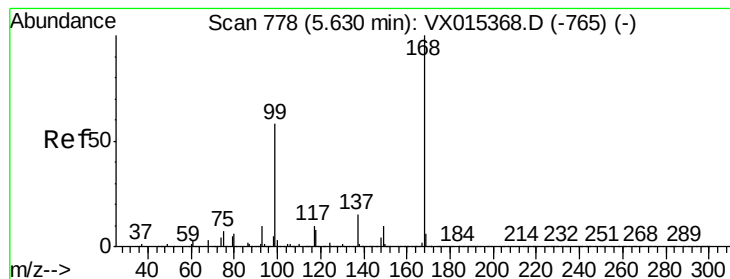
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Mar 27 09:35:51 2020
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 779

Delta R.T. 0.01 min

Lab File: VX015379.D

Acq: 27 Mar 2020 14:20

Instrument :

MSVOA_X

ClientSampleId :

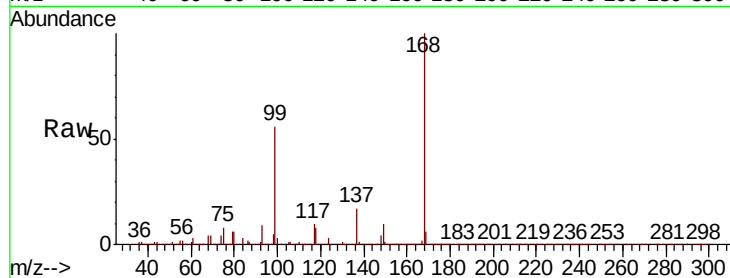
GHD1-TB-032020

Tot Ion:168 Resp: 1163571

Ion Ratio Lower Upper

168 100

99 56.1 46.4 69.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.64

400000

300000

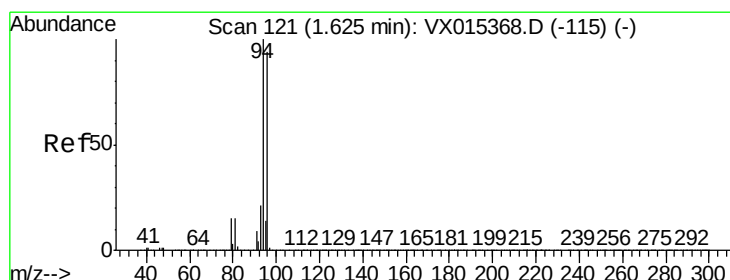
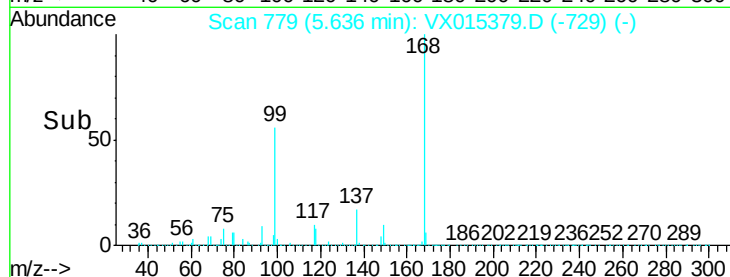
200000

100000

0

Time-->

5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 123

Delta R.T. 0.01 min

Lab File: VX015379.D

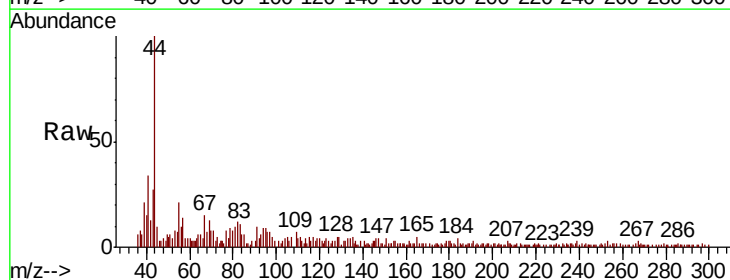
Acq: 27 Mar 2020 14:20

Tgt Ion: 94 Resp: 1142

Ion Ratio Lower Upper

94 100

96 41.0 74.8 112.2#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1500

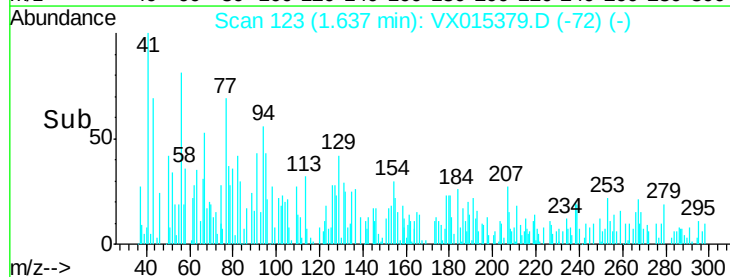
1000

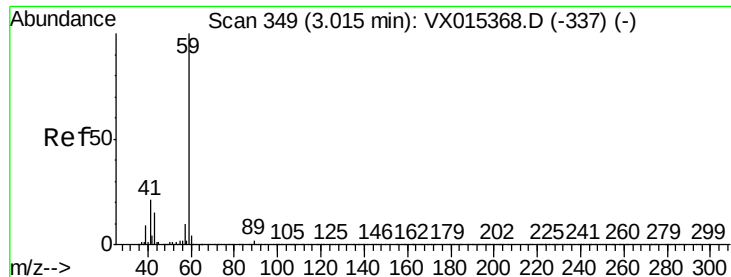
500

0

Time-->

1.60 1.62 1.64 1.66 1.68



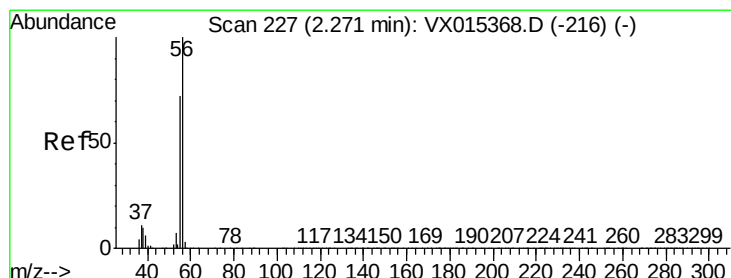
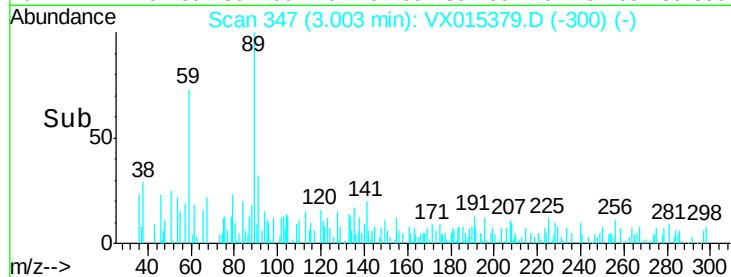
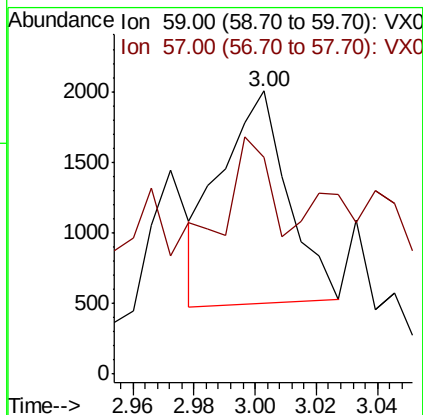
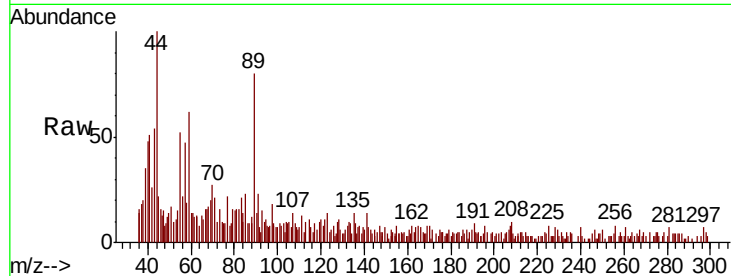


#11

Tert butyl alcohol
Concen: 0.584 ug/l
RT: 3.00 min Scan# 347
Delta R.T. -0.01 min
Lab File: VX015379.D
Acq: 27 Mar 2020 14:20

Instrument :
MSVOA_X
ClientSampleId :
GHD1-TB-032020

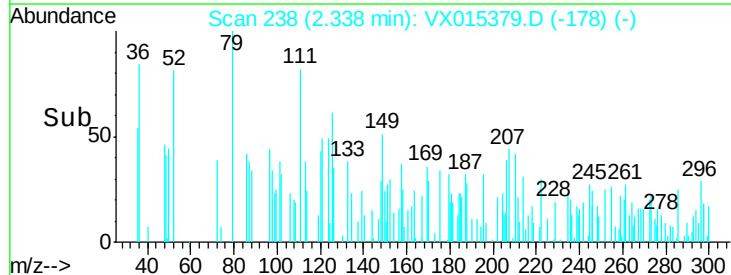
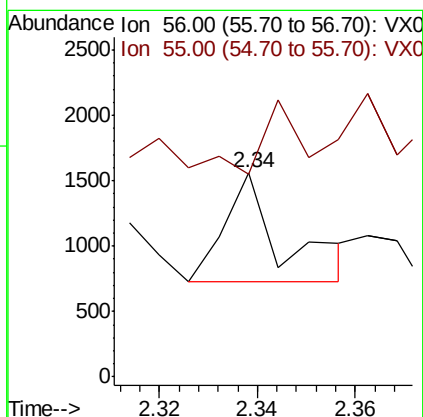
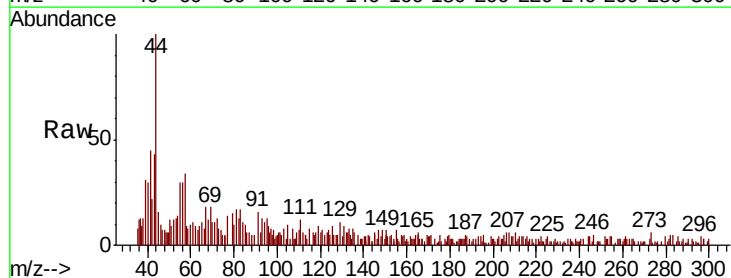
Tot Ion: 59 Resp: 2294
Ion Ratio Lower Upper
59 100
57 20.6 8.1 12.1#

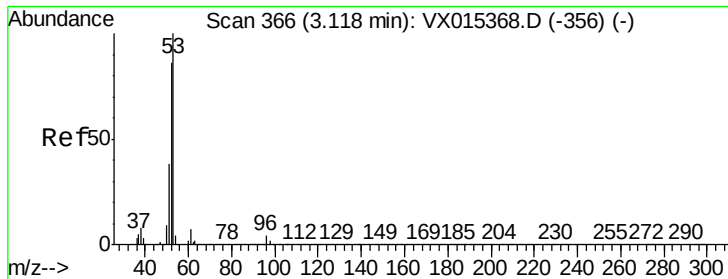


#13

Acrolein
Concen: 0.307 ug/l
RT: 2.34 min Scan# 238
Delta R.T. 0.07 min
Lab File: VX015379.D
Acq: 27 Mar 2020 14:20

Tgt Ion: 56 Resp: 687
Ion Ratio Lower Upper
56 100
55 36.8 57.0 85.4#

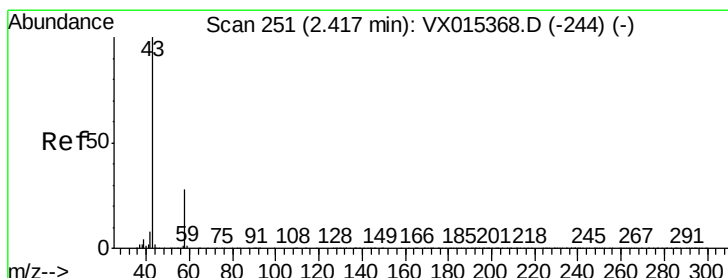
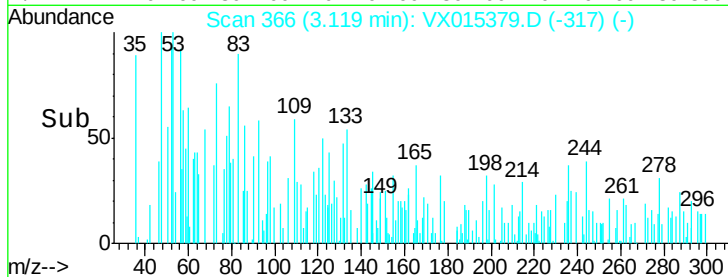
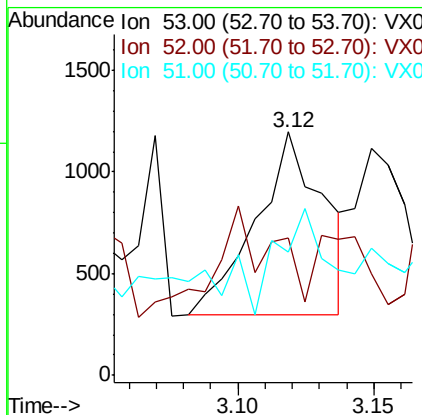
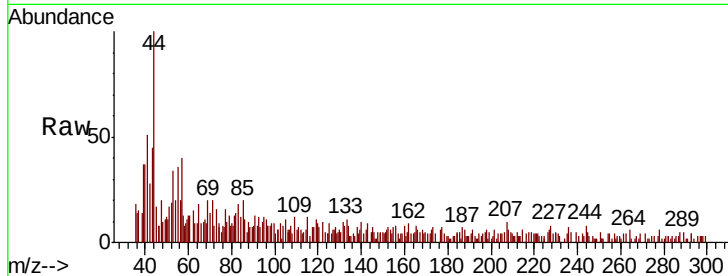




#15
 Acrylonitrile
 Concen: 0.205 ug/l
 RT: 3.12 min Scan# 366
 Delta R.T. 0.00 min
 Lab File: VX015379.D
 Acq: 27 Mar 2020 14:20

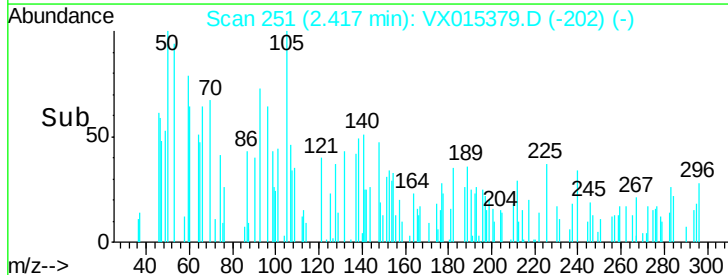
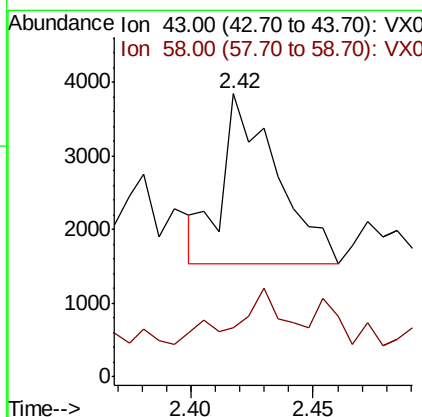
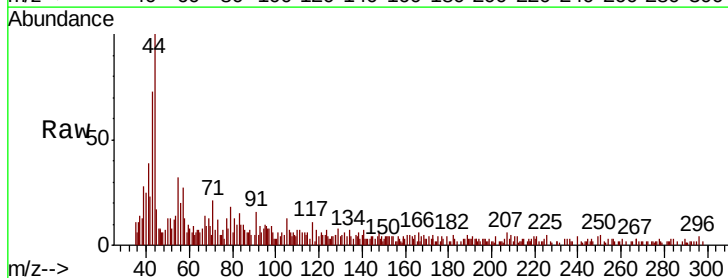
Instrument :
 MSVOA_X
 ClientSampled :
 GHD1-TB-032020

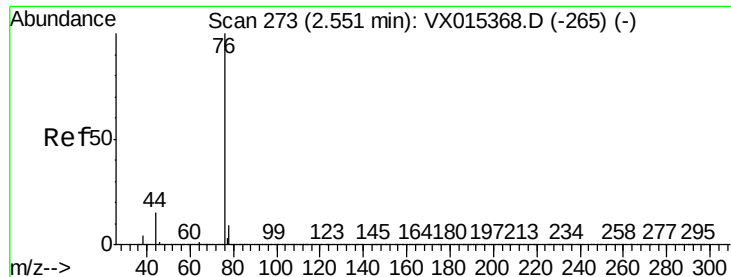
Tot Ion: 53 Resp: 1538
 Ion Ratio Lower Upper
 53 100
 52 26.9 66.8 100.2#
 51 33.7 29.5 44.3



#16
 Acetone
 Concen: 0.512 ug/l
 RT: 2.42 min Scan# 251
 Delta R.T. 0.00 min
 Lab File: VX015379.D
 Acq: 27 Mar 2020 14:20

Tgt Ion: 43 Resp: 3612
 Ion Ratio Lower Upper
 43 100
 58 3.1 22.1 33.1#





#17

Carbon Disulfide

Concen: 0.203 ug/l

RT: 2.55 min Scan# 273

Delta R.T. 0.00 min

Lab File: VX015379.D

Acq: 27 Mar 2020 14:20

Instrument :

MSVOA_X

ClientSampleId :

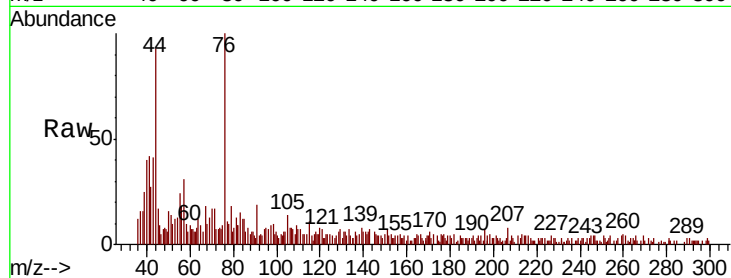
GHD1-TB-032020

Tot Ion: 76 Resp: 6801

Ion Ratio Lower Upper

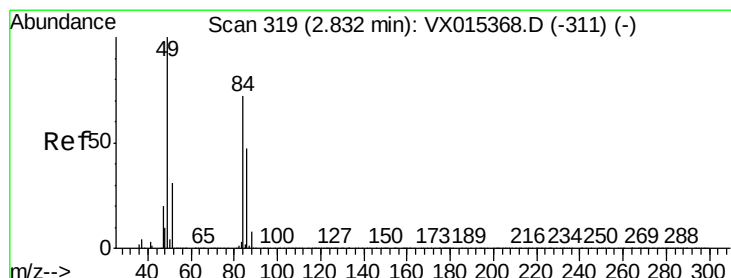
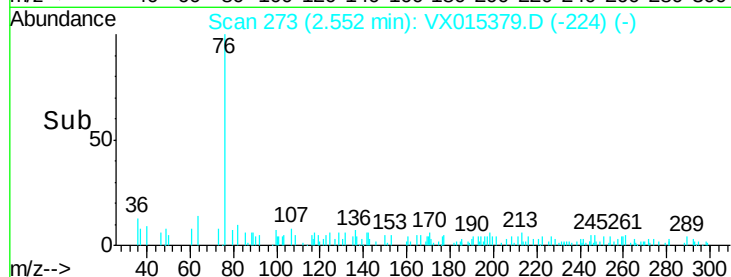
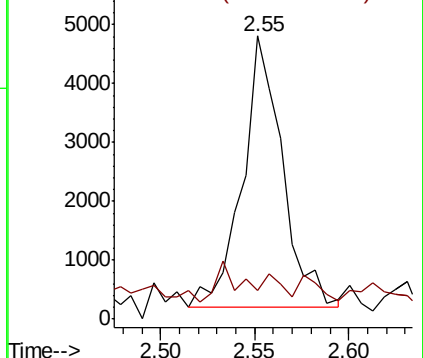
76 100

78 3.7 7.1 10.7#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#20

Methylene Chloride

Concen: 0.242 ug/l

RT: 2.84 min Scan# 320

Delta R.T. 0.01 min

Lab File: VX015379.D

Acq: 27 Mar 2020 14:20

Tgt Ion: 84 Resp: 3187

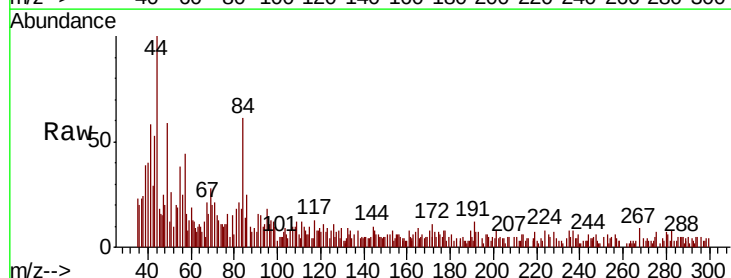
Ion Ratio Lower Upper

84 100

49 87.7 111.3 166.9#

51 4.5 34.0 51.0#

86 33.5 52.5 78.7#

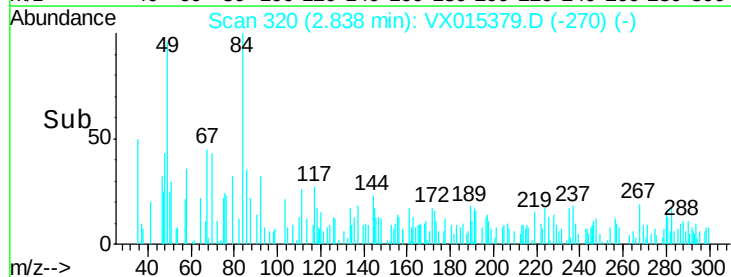
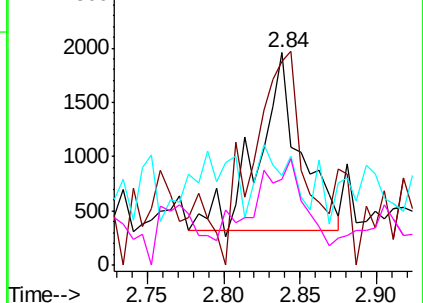


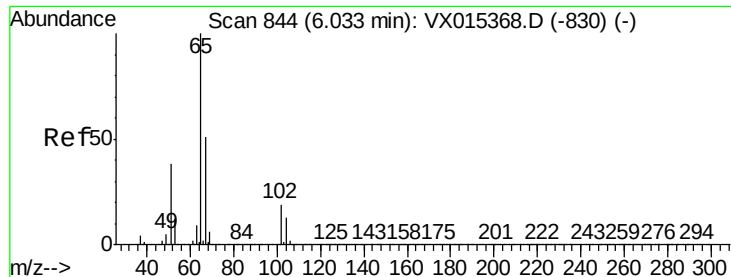
Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0





#33

1,2-Dichloroethane-d4

Concen: 46.651 ug/l

RT: 6.03 min Scan# 844

Delta R.T. 0.00 min

Lab File: VX015379.D

Acq: 27 Mar 2020 14:20

Instrument :

MSVOA_X

ClientSampleId :

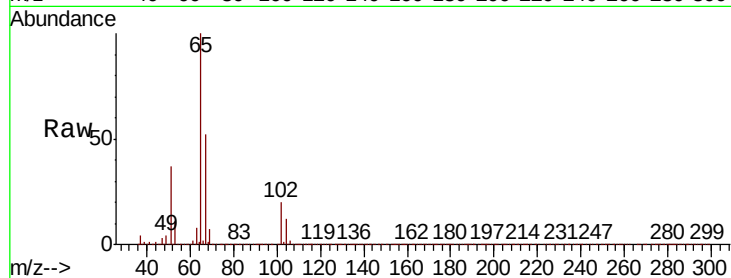
GHD1-TB-032020

Tot Ion: 65 Resp: 765588

Ion Ratio Lower Upper

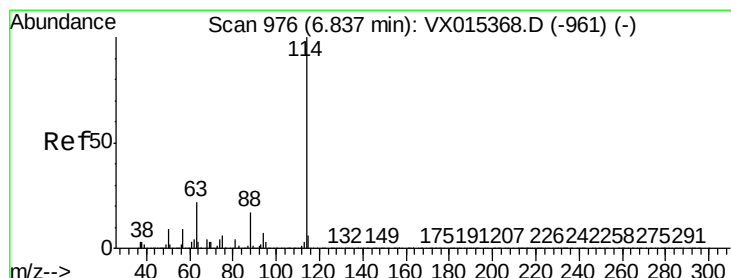
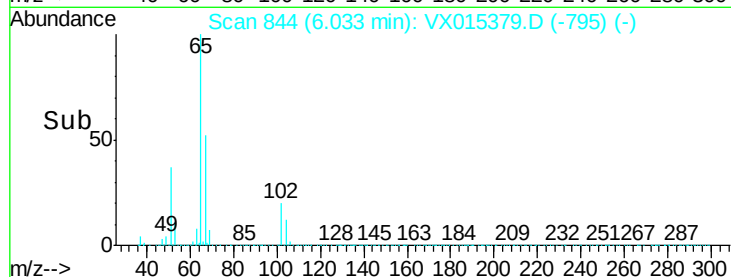
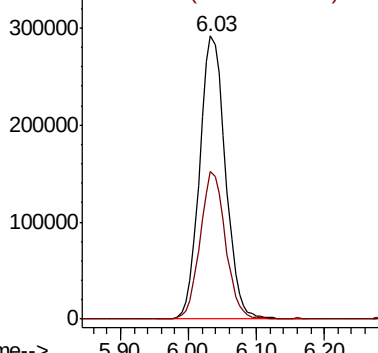
65 100

67 50.9 0.0 102.6



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.84 min Scan# 976

Delta R.T. 0.00 min

Lab File: VX015379.D

Acq: 27 Mar 2020 14:20

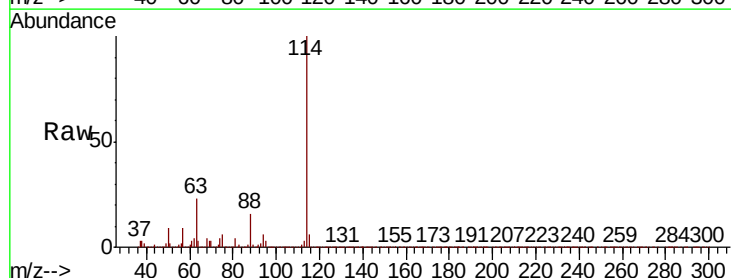
Tgt Ion: 114 Resp: 1911049

Ion Ratio Lower Upper

114 100

63 23.1 0.0 44.2

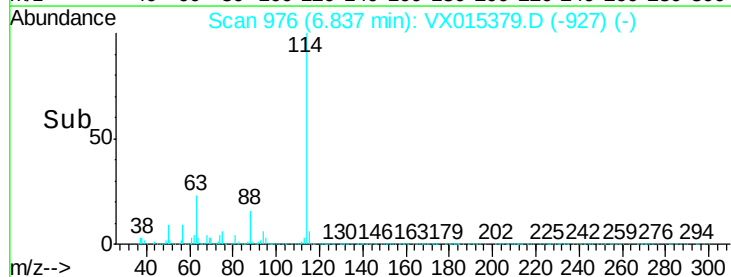
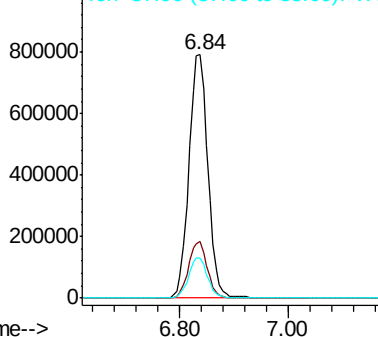
88 16.2 0.0 33.8

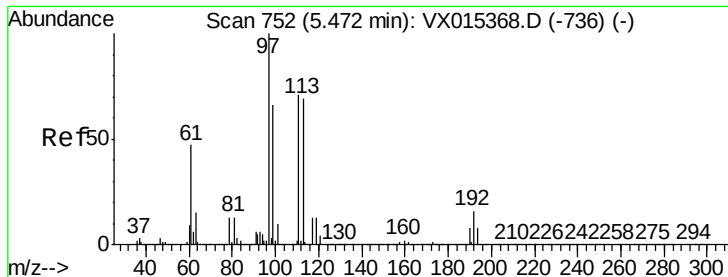


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

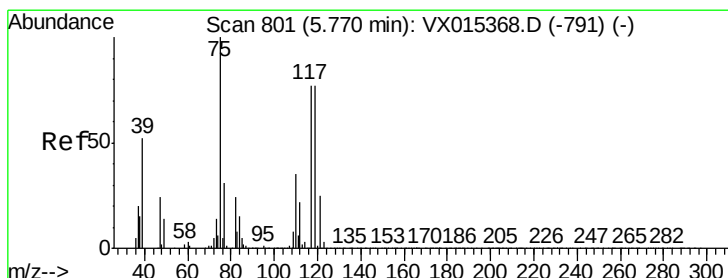
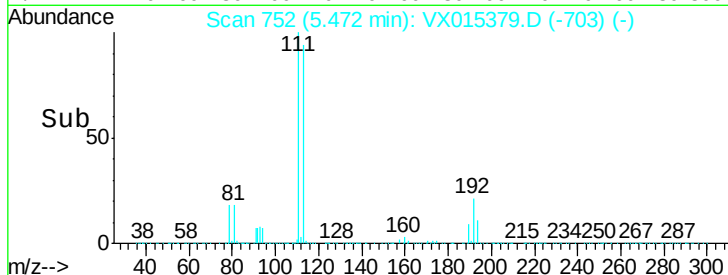
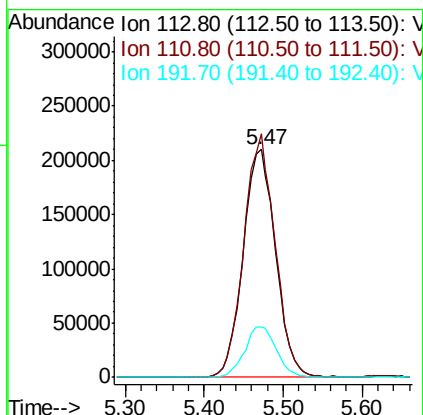
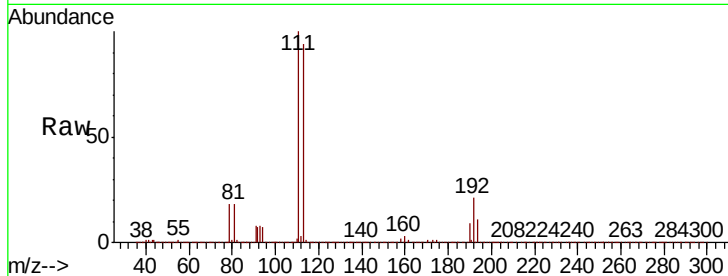




#35
 Dibromofluoromethane
 Concen: 49.133 ug/l
 RT: 5.47 min Scan# 752
 Delta R.T. 0.00 min
 Lab File: VX015379.D
 Acq: 27 Mar 2020 14:20

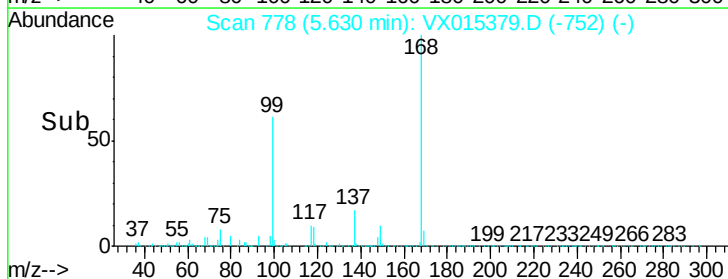
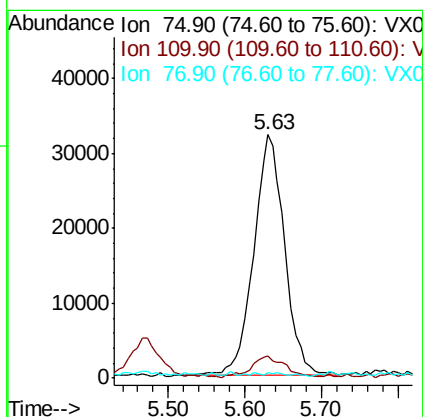
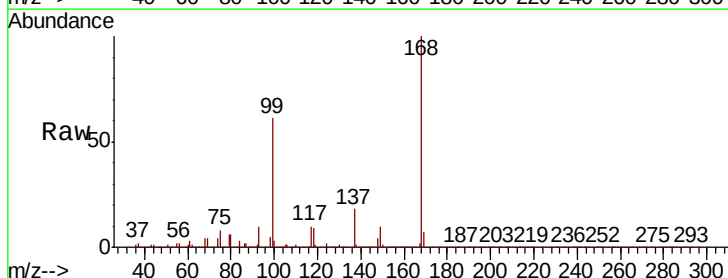
Instrument :
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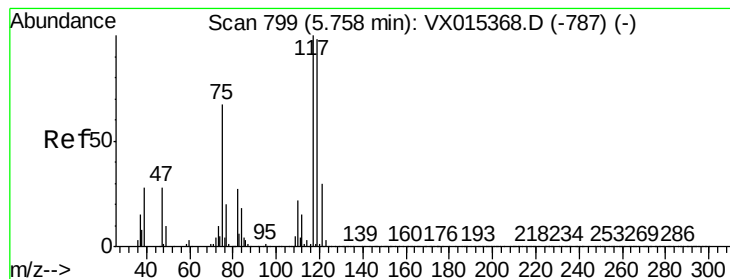
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.4	81.5	122.3
192	21.9	17.8	26.6



#36
 1,1-Dichloropropene
 Concen: 5.111 ug/l
 RT: 5.63 min Scan# 778
 Delta R.T. -0.14 min
 Lab File: VX015379.D
 Acq: 27 Mar 2020 14:20

Tgt Ion	Ratio	Lower	Upper
75	100		
110	10.4	17.1	51.3#
77	0.4	24.6	36.8#





#38

Carbon Tetrachloride

Concen: 5.919 ug/l

RT: 5.63 min Scan# 778

Delta R.T. -0.13 min

Lab File: VX015379.D

Acq: 27 Mar 2020 14:20

Instrument :

MSVOA_X

ClientSampleId :

GHD1-TB-032020

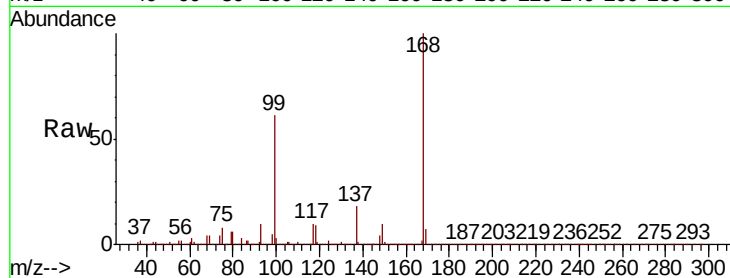
Tot Ion:117 Resp: 112885

Ion Ratio Lower Upper

117 100

119 4.9 78.0 117.0#

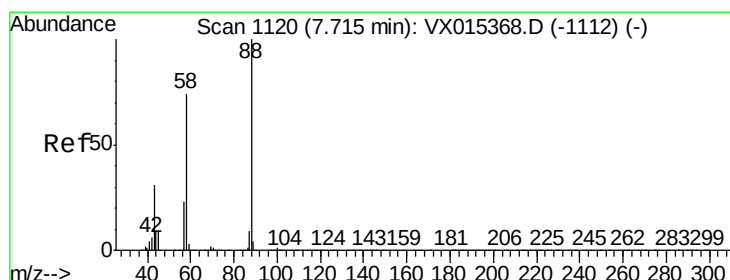
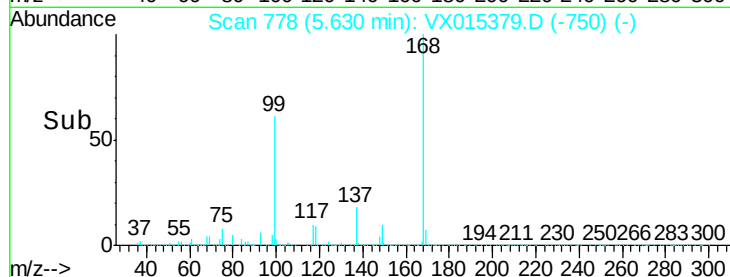
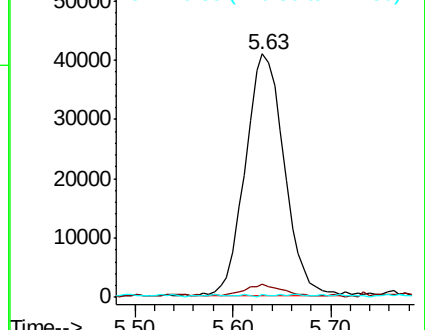
121 0.0 23.8 35.8#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#49

1,4-Dioxane

Concen: 2.900 ug/l

RT: 7.73 min Scan# 1122

Delta R.T. 0.01 min

Lab File: VX015379.D

Acq: 27 Mar 2020 14:20

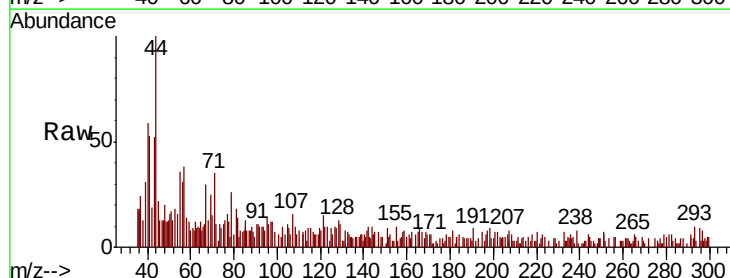
Tgt Ion: 88 Resp: 1046

Ion Ratio Lower Upper

88 100

43 36.7 30.1 45.1

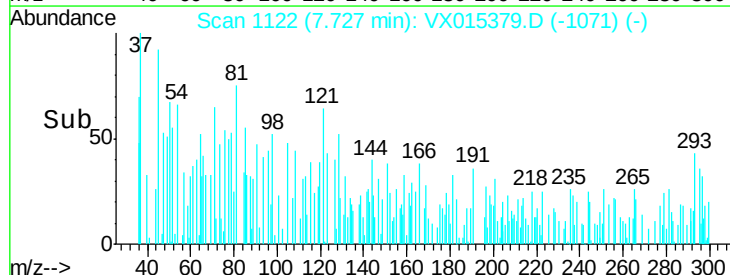
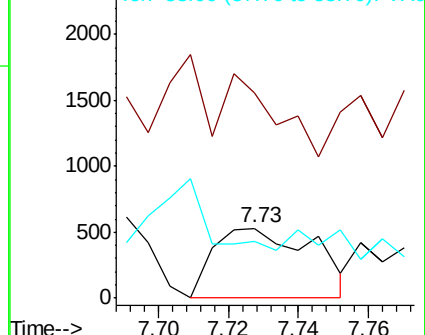
58 67.1 60.6 90.8

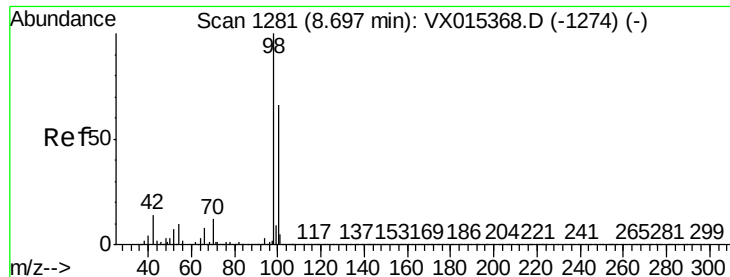


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

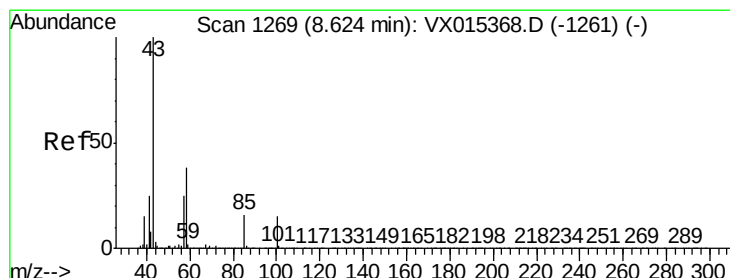
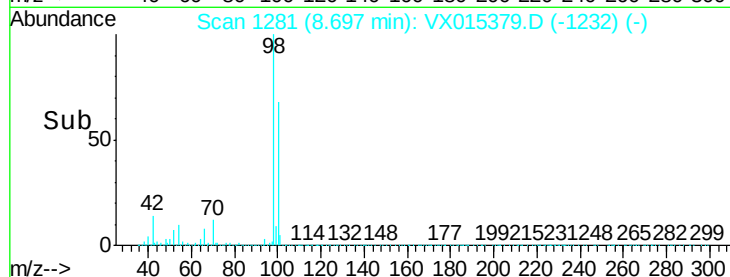
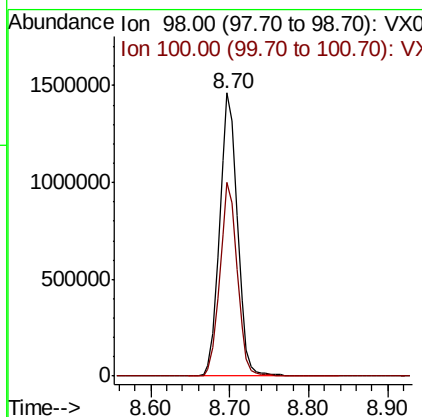
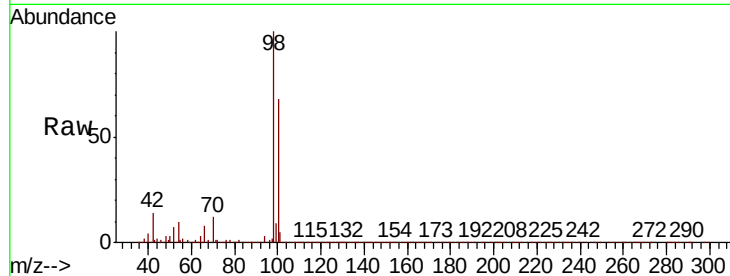




#50
Toluene-d8
Concen: 51.176 ug/l
RT: 8.70 min Scan# 1281
Delta R.T. 0.00 min
Lab File: VX015379.D
Acq: 27 Mar 2020 14:20

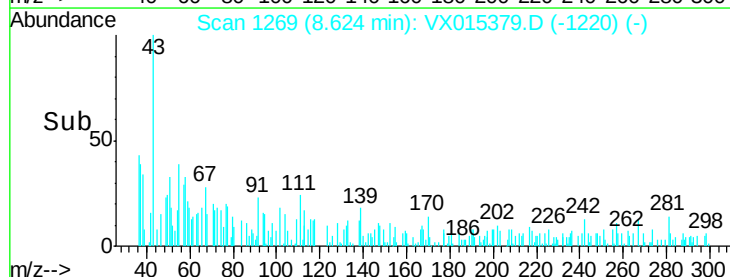
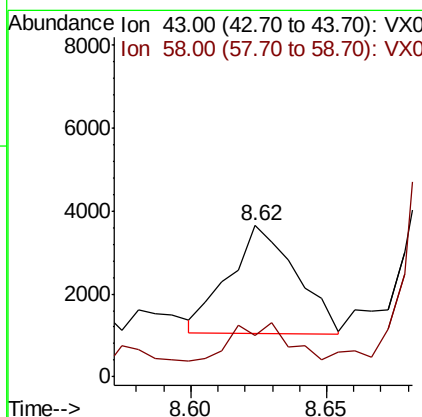
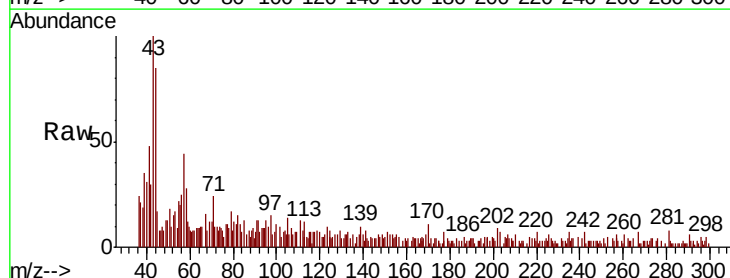
Instrument :
MSVOA_X
ClientSampleId :
GHD1-TB-032020

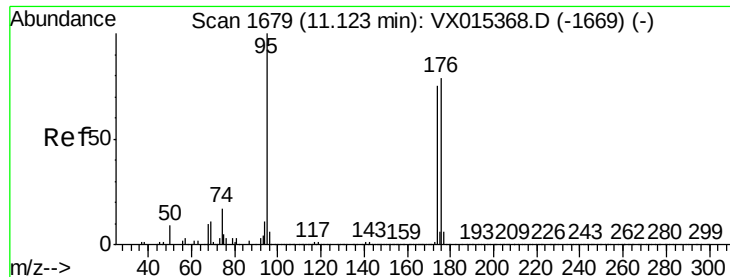
Tot Ion: 98 Resp: 2301689
Ion Ratio Lower Upper
98 100
100 66.8 53.5 80.3



#51
4-Methyl-2-Pentanone
Concen: 0.204 ug/l
RT: 8.62 min Scan# 1269
Delta R.T. 0.00 min
Lab File: VX015379.D
Acq: 27 Mar 2020 14:20

Tgt Ion: 43 Resp: 4468
Ion Ratio Lower Upper
43 100
58 35.3 29.7 44.5





#62

4-Bromofluorobenzene

Concen: 52.973 ug/l

RT: 11.12 min Scan# 1679

Delta R.T. 0.00 min

Lab File: VX015379.D

Acq: 27 Mar 2020 14:20

Instrument :

MSVOA_X

ClientSampleId :

GHD1-TB-032020

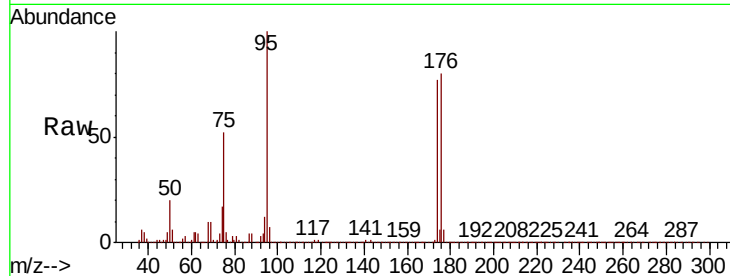
Tot Ion: 95 Resp: 968253

Ion Ratio Lower Upper

95 100

174 77.6 0.0 158.6

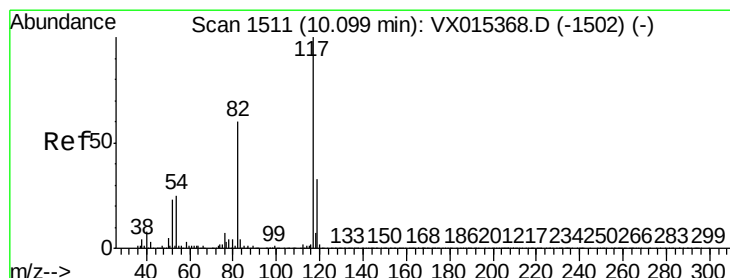
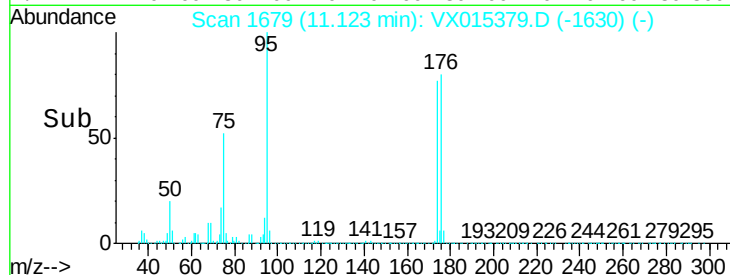
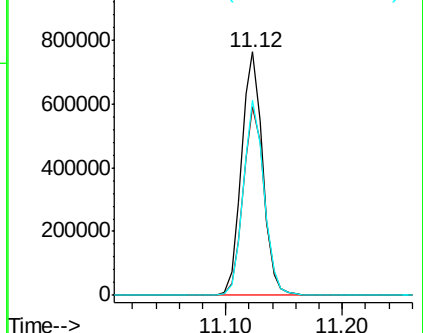
176 78.7 0.0 159.0



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1511

Delta R.T. 0.00 min

Lab File: VX015379.D

Acq: 27 Mar 2020 14:20

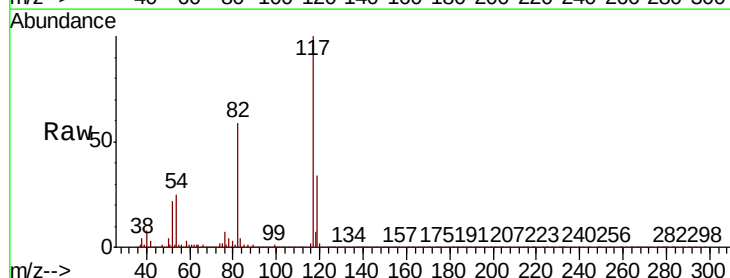
Tgt Ion: 117 Resp: 1796429

Ion Ratio Lower Upper

117 100

82 58.8 47.8 71.8

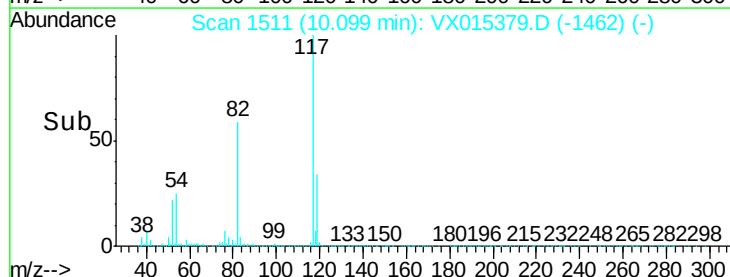
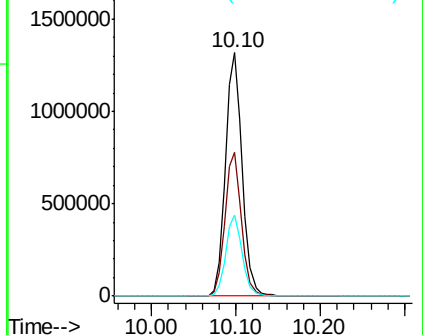
119 33.5 26.8 40.2

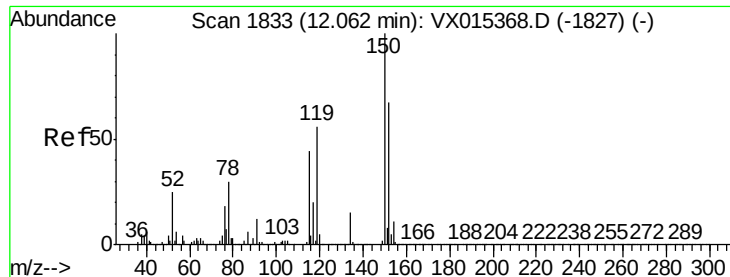


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V

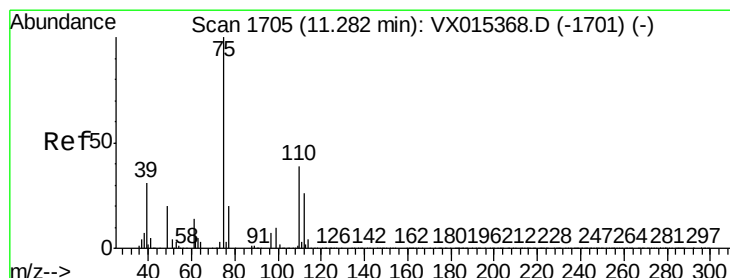
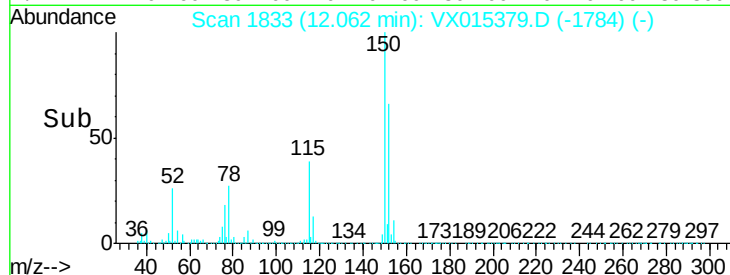
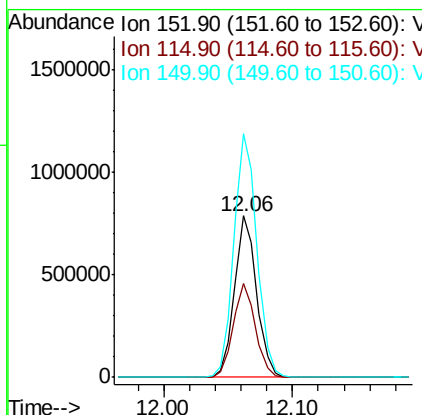
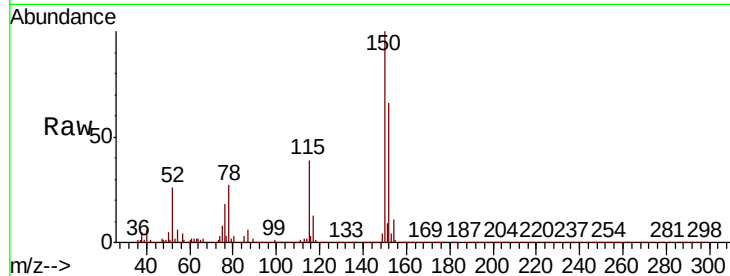




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.06 min Scan# 1833
 Delta R.T. 0.00 min
 Lab File: VX015379.D
 Acq: 27 Mar 2020 14:20

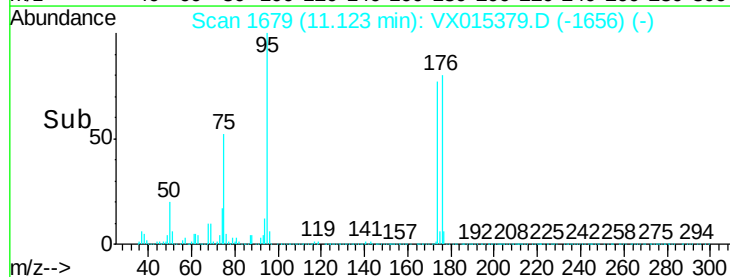
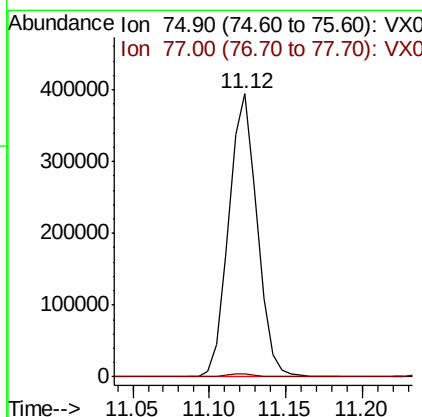
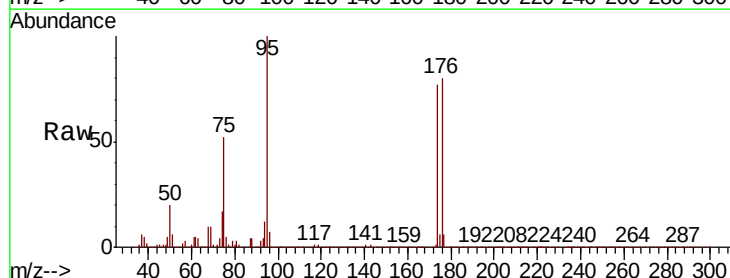
Instrument :
 MSVOA_X
 ClientSampleId :
 GHD1-TB-032020

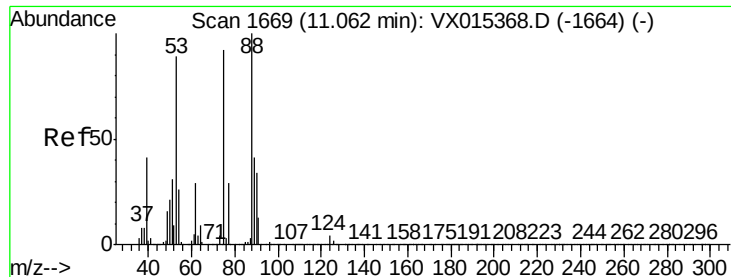
Tot Ion	Ratio	Lower	Upper
152	100		
115	58.6	39.0	116.9
150	156.6	0.0	340.8



#76
 1,2,3-Trichloropropane
 Concen: 26.017 ug/l
 RT: 11.12 min Scan# 1679
 Delta R.T. -0.16 min
 Lab File: VX015379.D
 Acq: 27 Mar 2020 14:20

Tgt Ion	Ratio	Lower	Upper
75	100		
77	1.1	21.2	63.6





#81

trans-1,4-Dichloro-2-butene

Concen: 62.427 ug/l

RT: 11.12 min Scan# 1679

Delta R.T. 0.06 min

Lab File: VX015379.D

Acq: 27 Mar 2020 14:20

Instrument :

MSVOA_X

ClientSampleId :

GHD1-TB-032020

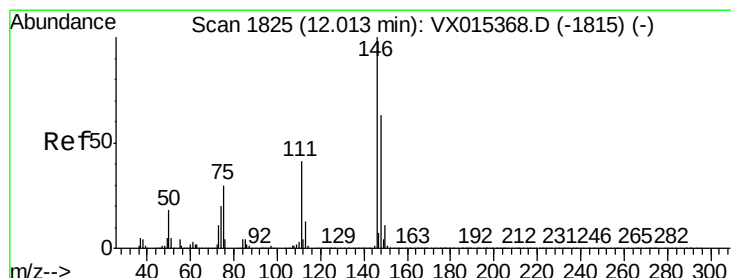
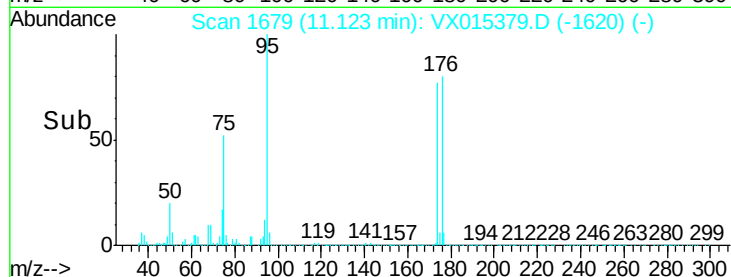
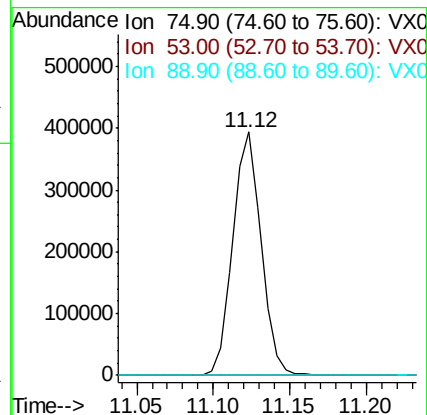
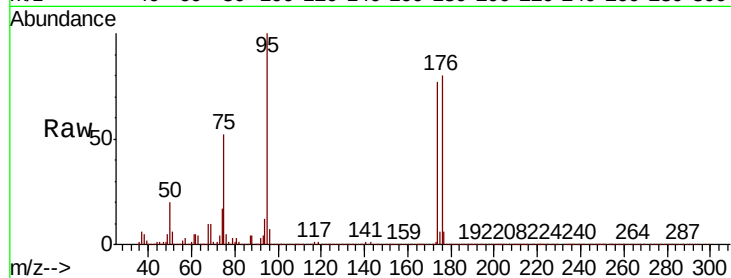
Tot Ion: 75 Resp: 504034

Ion Ratio Lower Upper

75 100

53 0.0 80.1 120.1#

89 0.0 36.1 54.1#



#87

1,3-Dichlorobenzene

Concen: 0.222 ug/l

RT: 12.01 min Scan# 1825

Delta R.T. 0.00 min

Lab File: VX015379.D

Acq: 27 Mar 2020 14:20

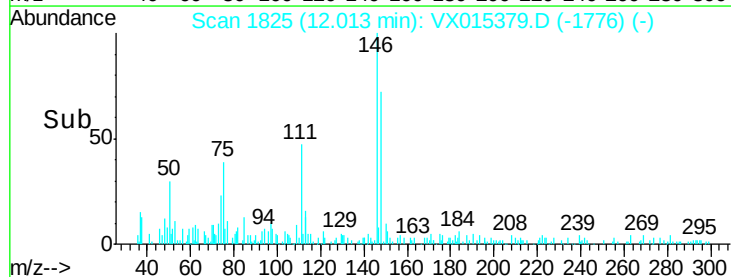
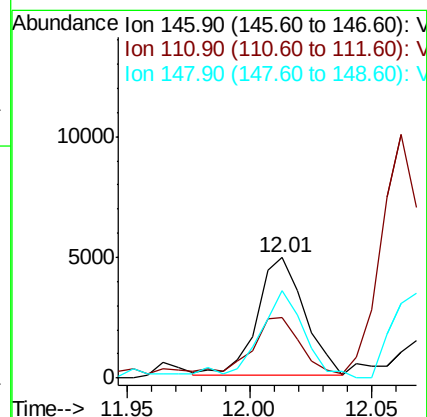
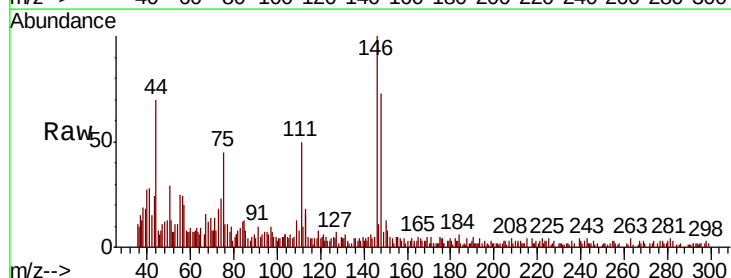
Tgt Ion: 146 Resp: 6542

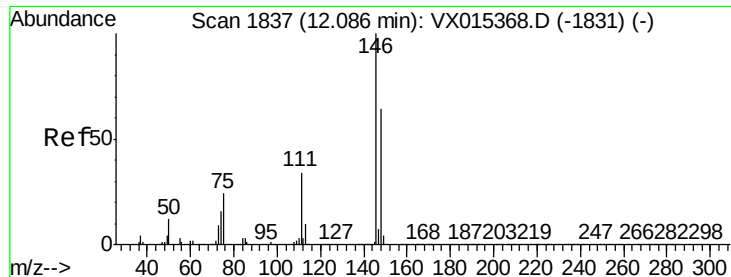
Ion Ratio Lower Upper

146 100

111 48.3 20.3 60.9

148 72.2 31.3 93.9

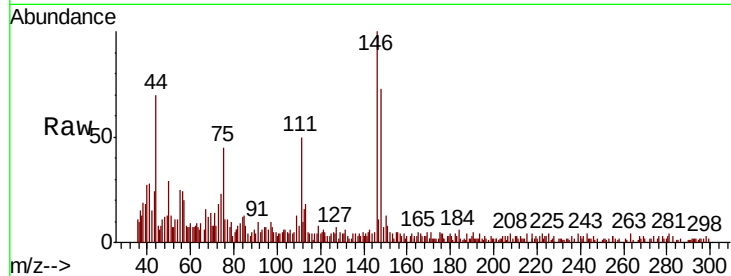




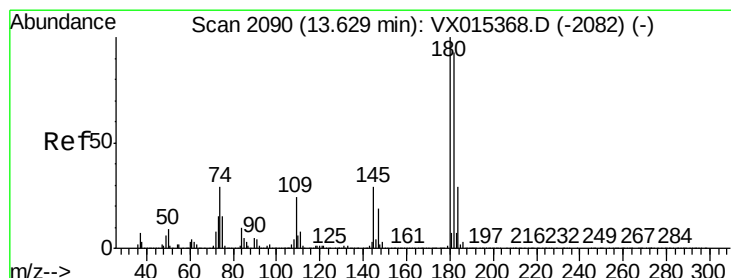
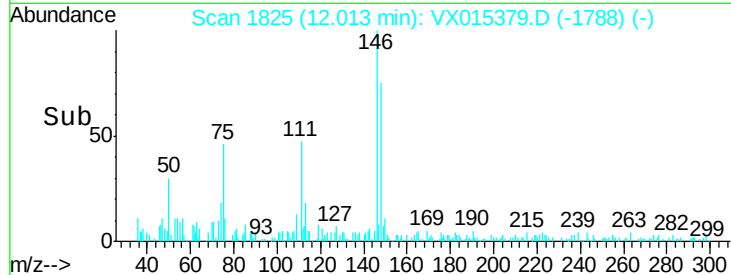
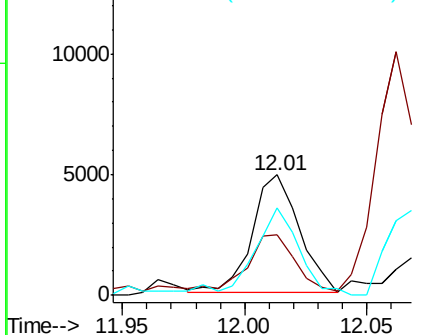
#88
 1,4-Dichlorobenzene
 Concen: 0.217 ug/l
 RT: 12.01 min Scan# 1825
 Delta R.T. -0.07 min
 Lab File: VX015379.D
 Acq: 27 Mar 2020 14:20

Instrument :
 MSVOA_X
 ClientSampled :
 GHD1-TB-032020

Tot Ion:146 Resp: 6522
 Ion Ratio Lower Upper
 146 100
 111 48.5 19.1 57.5
 148 72.5 32.4 97.2

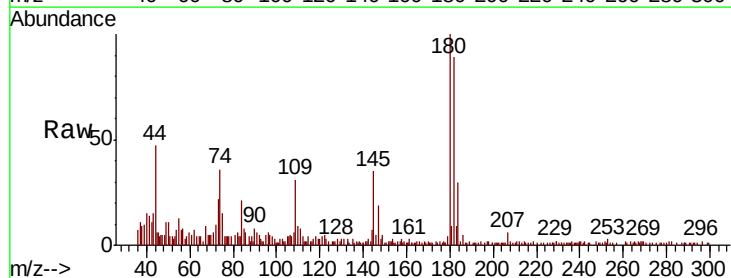


Abundance Ion 145.90 (145.60 to 146.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

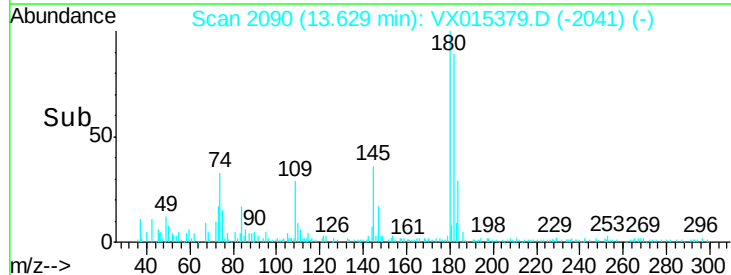
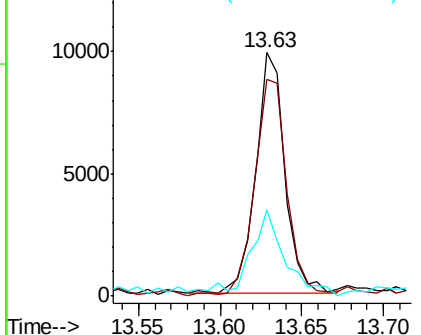


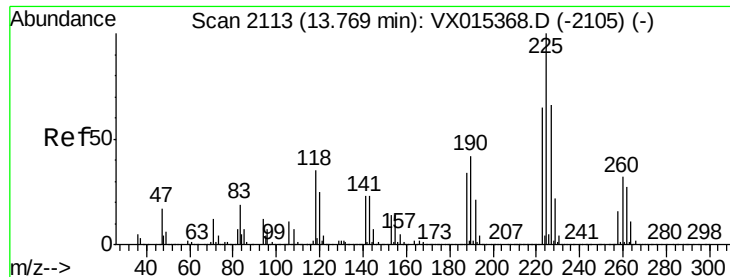
#93
 1,2,4-Trichlorobenzene
 Concen: 0.538 ug/l
 RT: 13.63 min Scan# 2090
 Delta R.T. 0.00 min
 Lab File: VX015379.D
 Acq: 27 Mar 2020 14:20

Tgt Ion:180 Resp: 12269
 Ion Ratio Lower Upper
 180 100
 182 100.5 46.9 140.7
 145 44.2 14.9 44.5



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





#94

Hexachlorobutadiene

Concen: 0.334 ug/l

RT: 13.77 min Scan# 2113

Delta R.T. 0.00 min

Lab File: VX015379.D

Acq: 27 Mar 2020 14:20

Instrument :

MSVOA_X

ClientSampleId :

GHD1-TB-032020

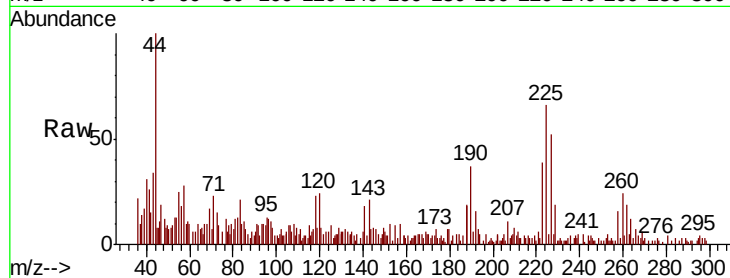
Tot Ion:225 Resp: 3628

Ion Ratio Lower Upper

225 100

223 80.9 31.9 95.7

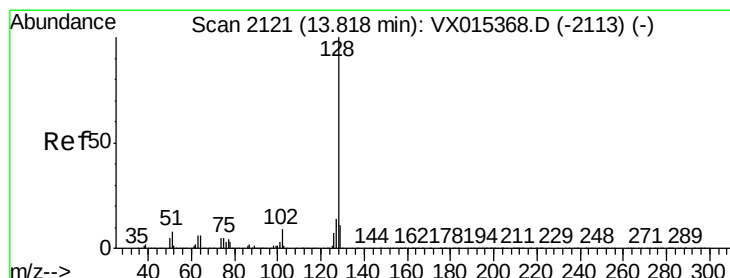
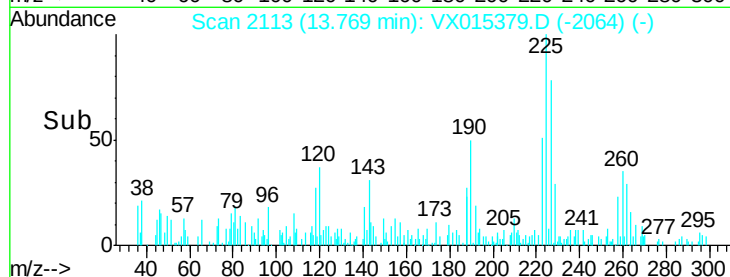
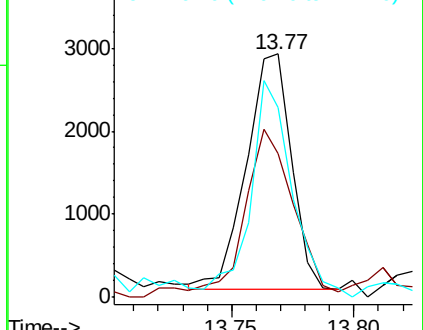
227 85.4 30.4 91.3



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: 0.304 ug/l

RT: 13.82 min Scan# 2121

Delta R.T. 0.00 min

Lab File: VX015379.D

Acq: 27 Mar 2020 14:20

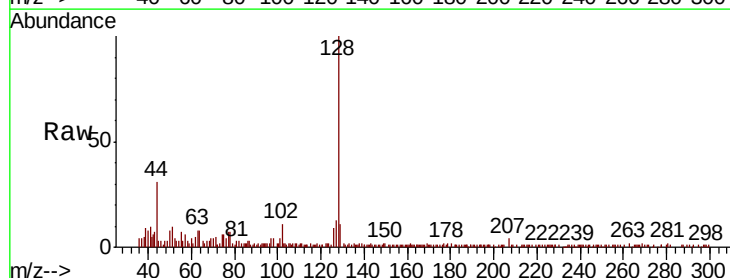
Tgt Ion:128 Resp: 21158

Ion Ratio Lower Upper

128 100

127 18.0 10.6 15.8#

129 11.3 8.8 13.2



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

