

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX032720\
 Data File : VX015382.D
 Acq On : 27 Mar 2020 15:28
 Operator : JC/SP
 Sample : L2011-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 GHD1-WC-L-01

Quant Time: Mar 30 01:43:55 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	1160701	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	1889766	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	1814886	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	945951	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.04	65	766283	46.81	ug/l	0.00
Spiked Amount			Recovery	=	93.62%	
35) Dibromofluoromethane	5.47	113	589924	48.84	ug/l	0.00
Spiked Amount			Recovery	=	97.68%	
50) Toluene-d8	8.70	98	2288873	51.46	ug/l	0.00
Spiked Amount			Recovery	=	102.92%	
62) 4-Bromofluorobenzene	11.12	95	987682	54.64	ug/l	0.00
Spiked Amount			Recovery	=	109.28%	

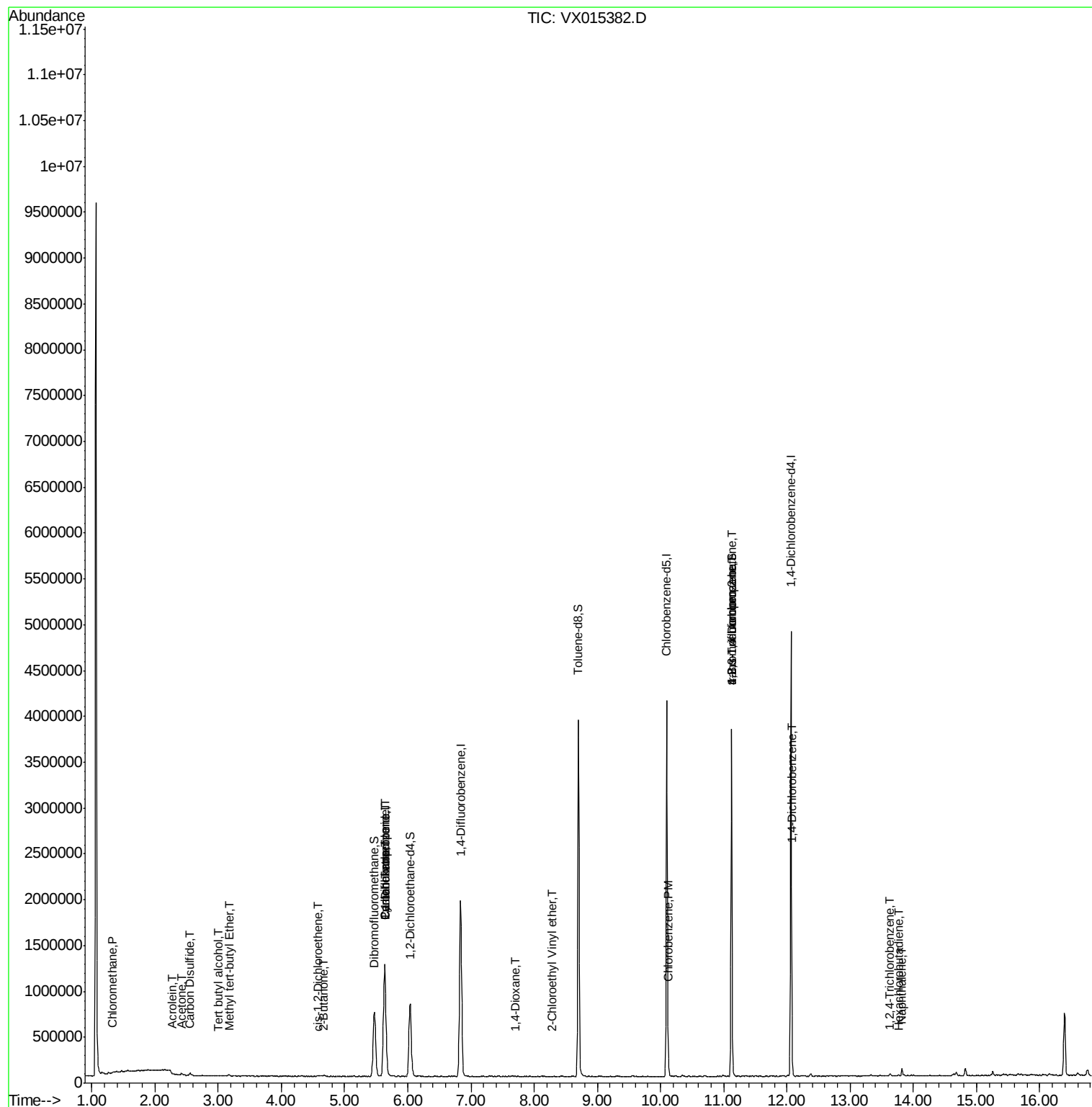
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.31	50	3166	0.243	ug/l #	80
5) Bromomethane	1.63	94	2203	Below Cal	#	3
11) Tert butyl alcohol	3.00	59	3414	0.871	ug/l #	64
13) Acrolein	2.28	56	632	0.283	ug/l #	14
16) Acetone	2.42	43	24201	3.441	ug/l	95
17) Carbon Disulfide	2.55	76	31473	0.941	ug/l	99
19) Methyl tert-butyl Ether	3.17	73	14789	0.348	ug/l	95
25) 2-Butanone	4.66	43	8269	0.731	ug/l	93
27) cis-1,2-Dichloroethene	4.58	96	3049	0.217	ug/l	50
31) Cyclohexane	5.63	56	24788	1.196	ug/l #	1
36) 1,1-Dichloropropene	5.64	75	88555	5.086	ug/l #	52
38) Carbon Tetrachloride	5.64	117	111393	5.907	ug/l #	15
49) 1,4-Dioxane	7.70	88	753	2.111	ug/l #	28
58) 2-Chloroethyl Vinyl ether	8.29	63	2311	0.209	ug/l #	89
65) Chlorobenzene	10.12	112	20076	0.555	ug/l	99
76) 1,2,3-Trichloropropane	11.12	75	500591	25.734	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.12	75	500591	61.747	ug/l #	10
88) 1,4-Dichlorobenzene	12.08	146	8144	0.270	ug/l #	1
93) 1,2,4-Trichlorobenzene	13.63	180	7208	0.315	ug/l	97
94) Hexachlorobutadiene	13.77	225	2449	0.225	ug/l	76
95) Naphthalene	13.82	128	49617	0.710	ug/l #	95

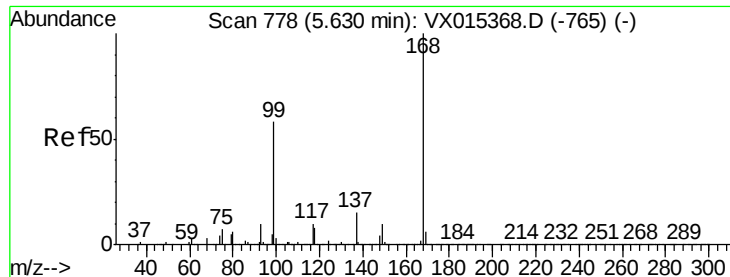
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Mar 27 09:35:51 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 779

Delta R.T. 0.01 min

Lab File: VX015382.D

Acq: 27 Mar 2020 15:28

Instrument :

MSVOA_X

ClientSampleId :

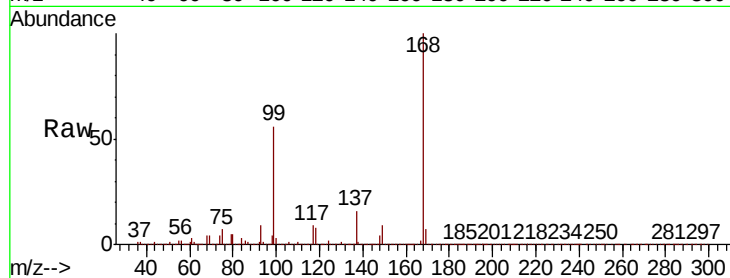
GHD1-WC-L-01

Tot Ion:168 Resp: 1160701

Ion Ratio Lower Upper

168 100

99 55.7 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

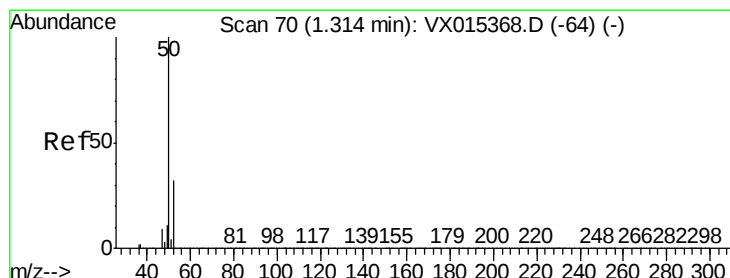
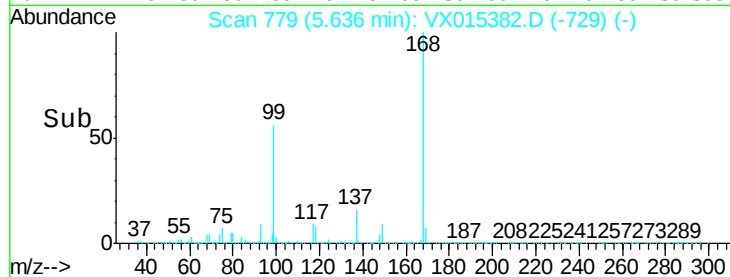
300000

200000

100000

0

Time-->



#3

Chloromethane

Concen: 0.243 ug/l

RT: 1.31 min Scan# 70

Delta R.T. -0.00 min

Lab File: VX015382.D

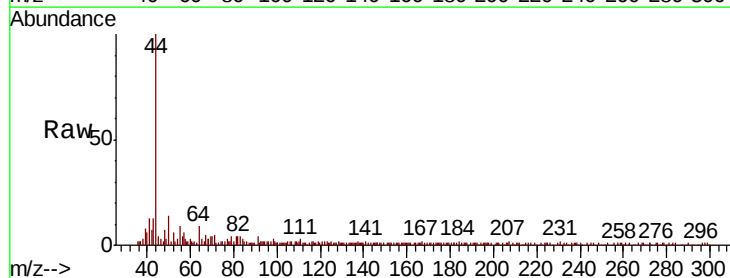
Acq: 27 Mar 2020 15:28

Tgt Ion: 50 Resp: 3166

Ion Ratio Lower Upper

50 100

52 42.4 25.3 37.9#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.31

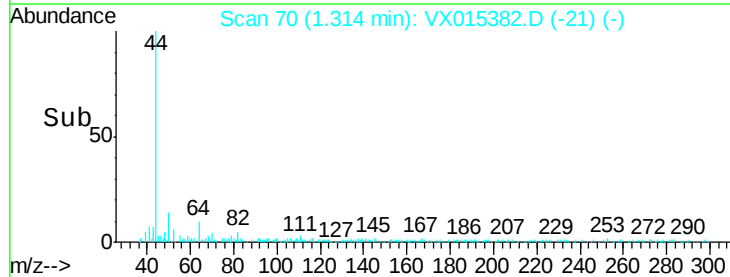
3000

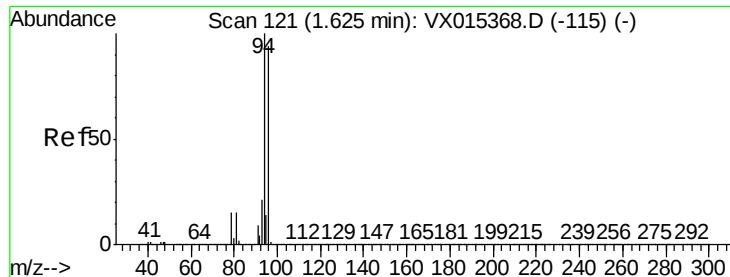
2000

1000

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.63 min Scan# 122

Delta R.T. 0.01 min

Lab File: VX015382.D

Acq: 27 Mar 2020 15:28

Instrument :

MSVOA_X

ClientSampled :

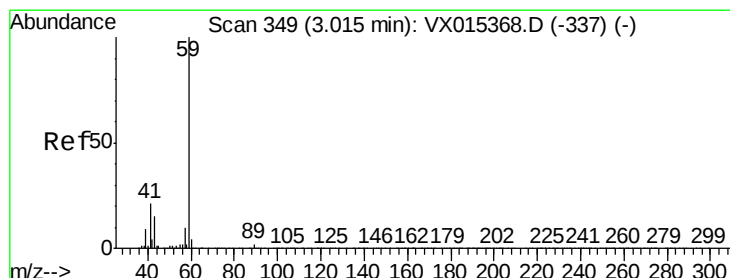
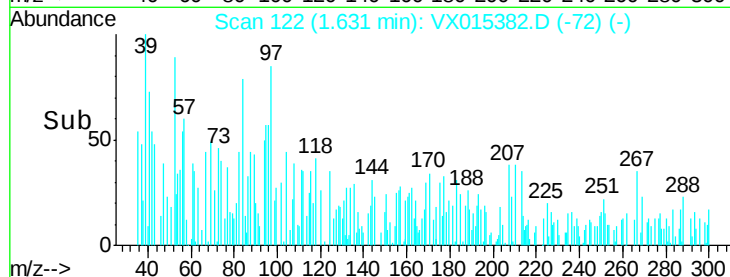
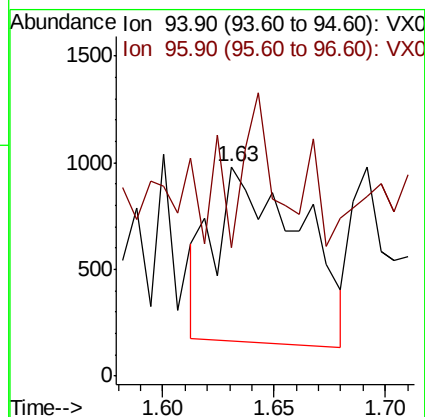
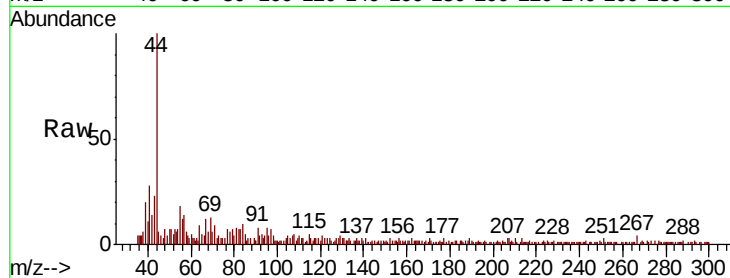
GHD1-WC-L-01

Tot Ion: 94 Resp: 2203

Ion Ratio Lower Upper

94 100

96 0.0 74.8 112.2#



#11

Tert butyl alcohol

Concen: 0.871 ug/l

RT: 3.00 min Scan# 347

Delta R.T. -0.01 min

Lab File: VX015382.D

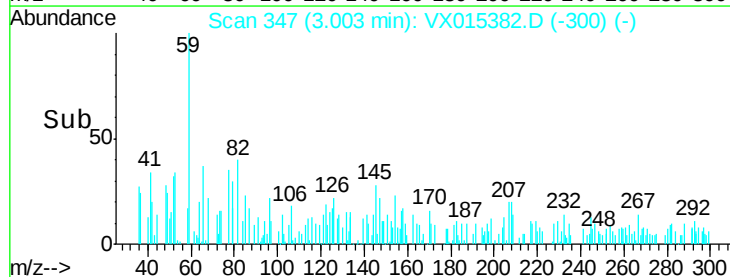
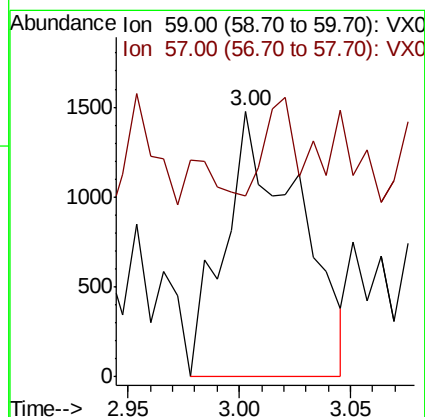
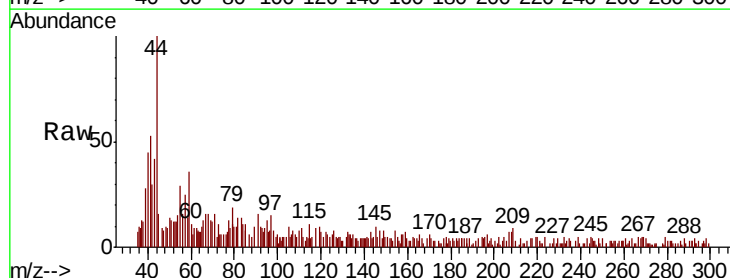
Acq: 27 Mar 2020 15:28

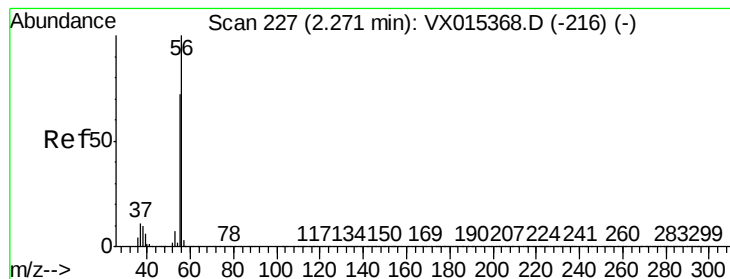
Tgt Ion: 59 Resp: 3414

Ion Ratio Lower Upper

59 100

57 23.5 8.1 12.1#





#13

Acrolein

Concen: 0.283 ug/l

RT: 2.28 min Scan# 228

Delta R.T. 0.01 min

Lab File: VX015382.D

Acq: 27 Mar 2020 15:28

Instrument :

MSVOA_X

ClientSampled :

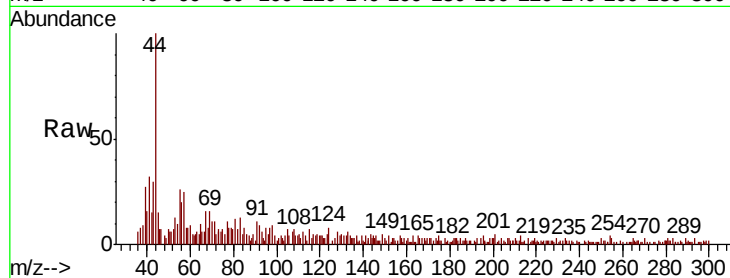
GHD1-WC-L-01

Tot Ion: 56 Resp: 632

Ion Ratio Lower Upper

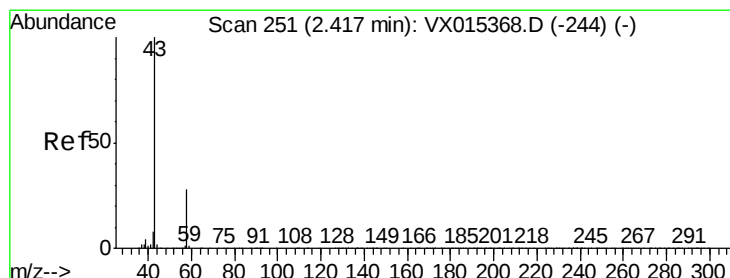
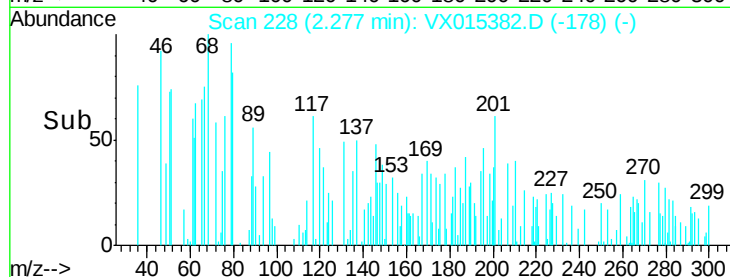
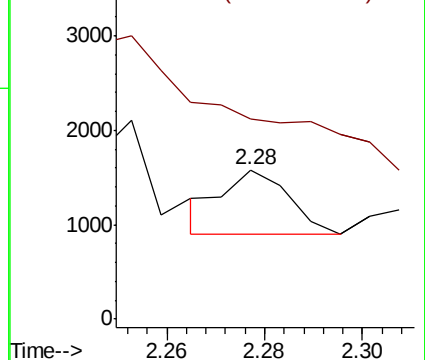
56 100

55 0.0 57.0 85.4#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 3.441 ug/l

RT: 2.42 min Scan# 251

Delta R.T. -0.00 min

Lab File: VX015382.D

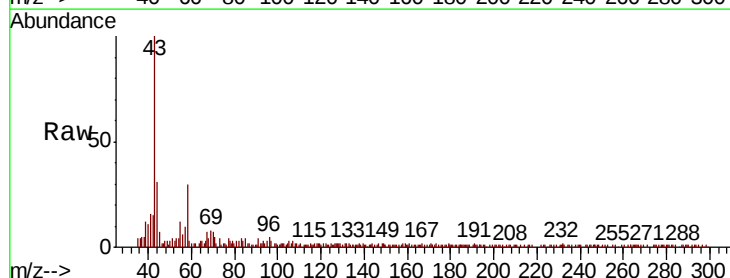
Acq: 27 Mar 2020 15:28

Tgt Ion: 43 Resp: 24201

Ion Ratio Lower Upper

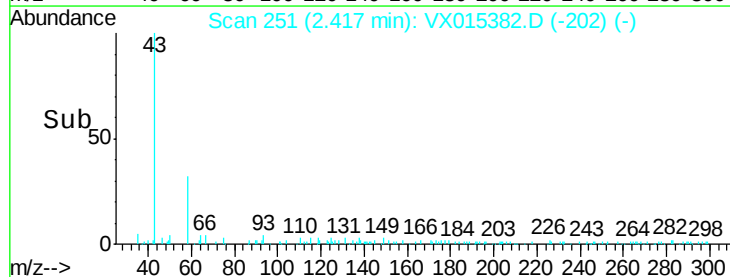
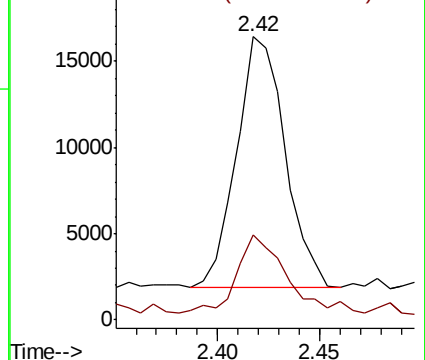
43 100

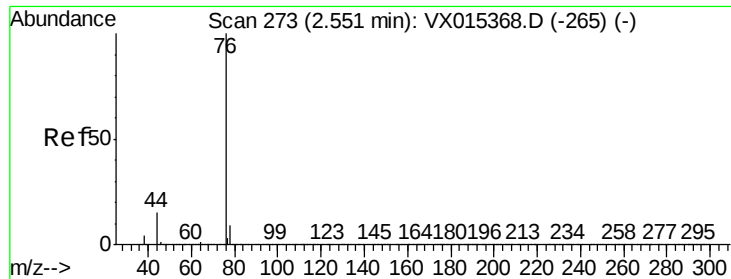
58 30.1 22.1 33.1



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

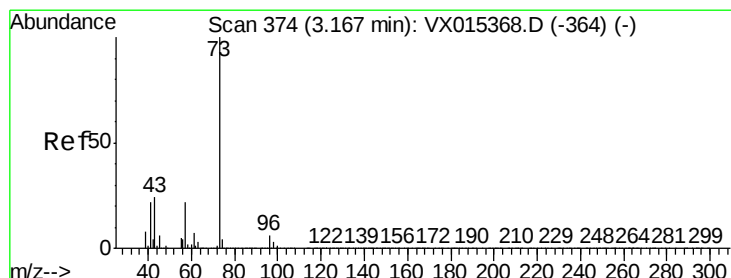
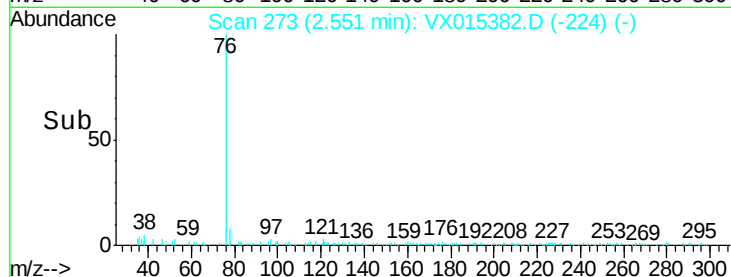
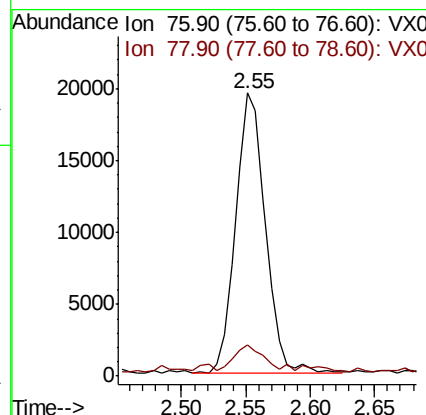
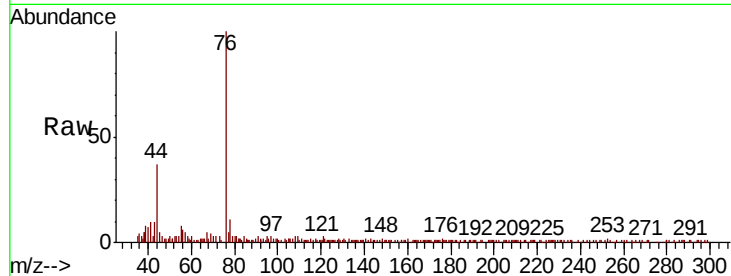




#17
Carbon Disulfide
Concen: 0.941 ug/l
RT: 2.55 min Scan# 273
Delta R.T. -0.00 min
Lab File: VX015382.D
Acq: 27 Mar 2020 15:28

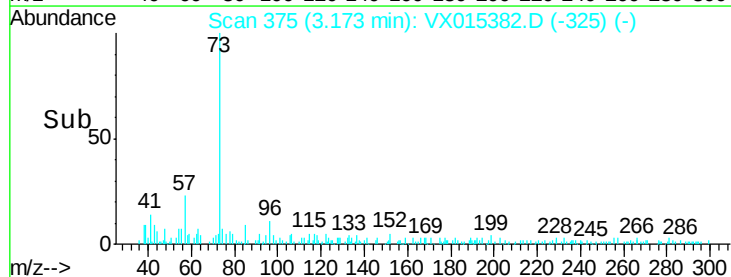
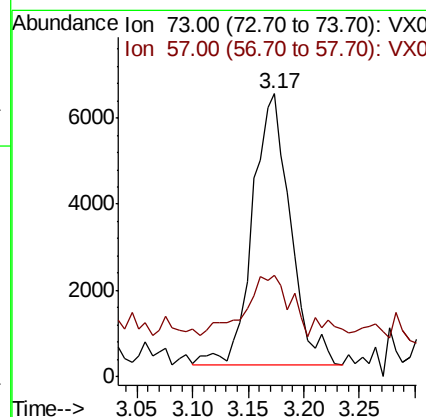
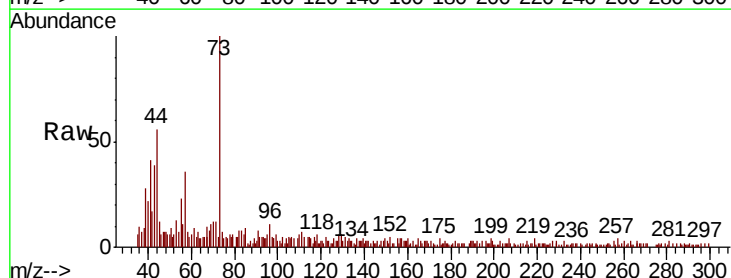
Instrument :
MSVOA_X
ClientSampleId :
GHD1-WC-L-01

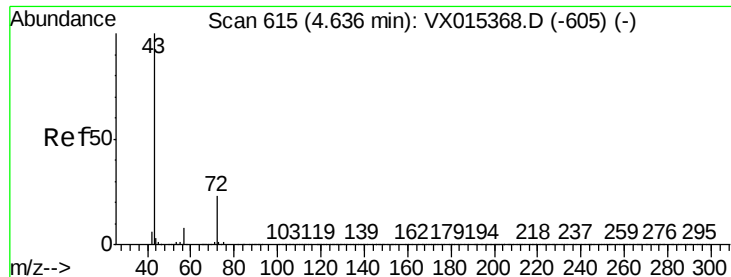
Tot Ion: 76 Resp: 31473
Ion Ratio Lower Upper
76 100
78 9.4 7.1 10.7



#19
Methyl tert-butyl Ether
Concen: 0.348 ug/l
RT: 3.17 min Scan# 375
Delta R.T. 0.01 min
Lab File: VX015382.D
Acq: 27 Mar 2020 15:28

Tgt Ion: 73 Resp: 14789
Ion Ratio Lower Upper
73 100
57 20.0 17.9 26.9





#25

2-Butanone

Concen: 0.731 ug/l

RT: 4.66 min Scan# 619

Delta R.T. 0.02 min

Lab File: VX015382.D

Acq: 27 Mar 2020 15:28

Instrument :

MSVOA_X

ClientSampleId :

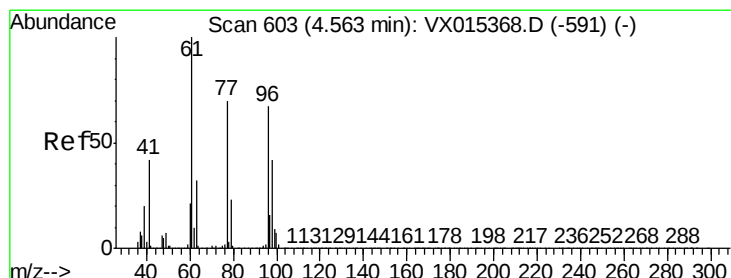
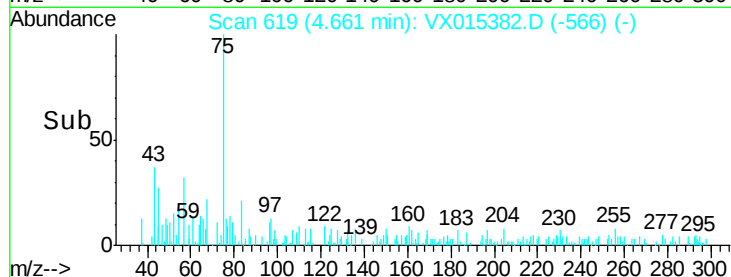
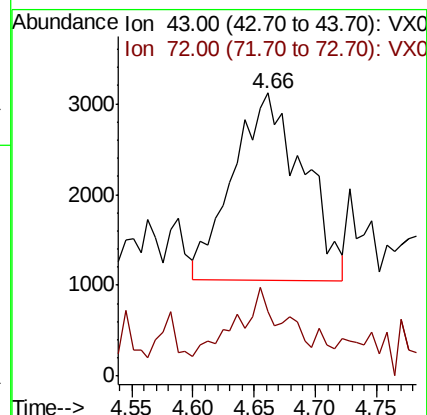
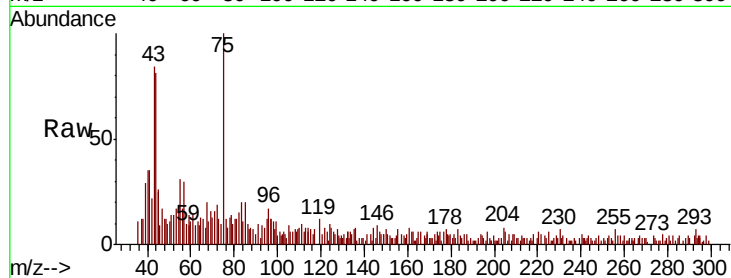
GHD1-WC-L-01

Tot Ion: 43 Resp: 8269

Ion Ratio Lower Upper

43 100

72 26.9 19.0 28.4



#27

cis-1,2-Dichloroethene

Concen: 0.217 ug/l

RT: 4.58 min Scan# 605

Delta R.T. 0.01 min

Lab File: VX015382.D

Acq: 27 Mar 2020 15:28

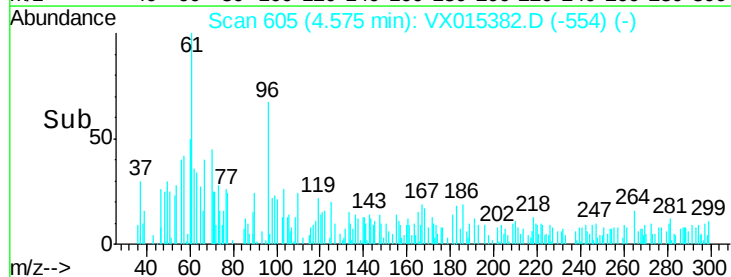
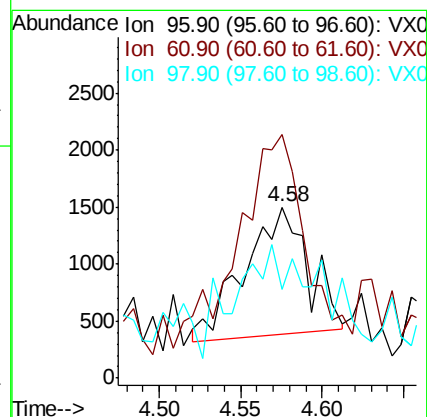
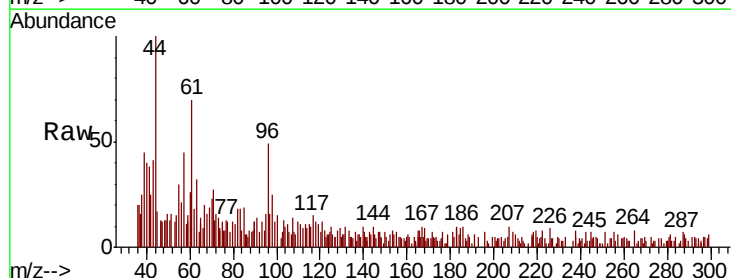
Tgt Ion: 96 Resp: 3049

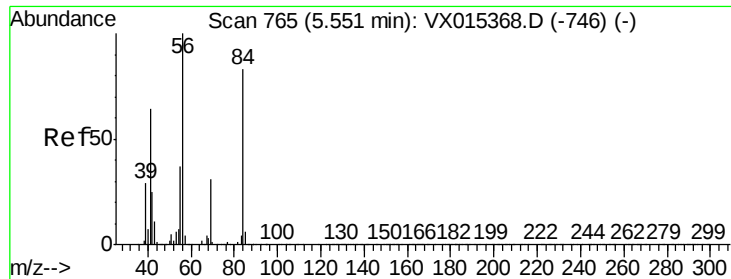
Ion Ratio Lower Upper

96 100

61 206.7 0.0 308.4

98 121.5 0.0 129.2

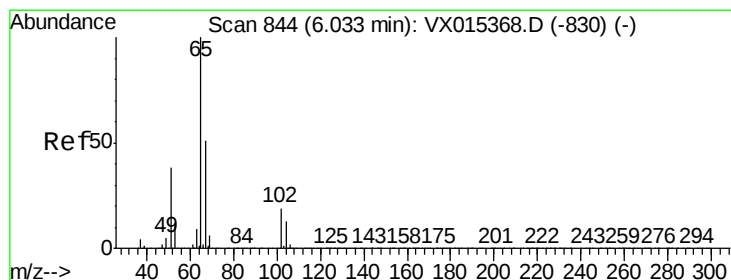
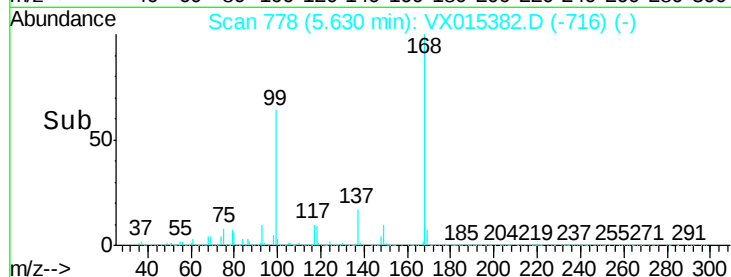
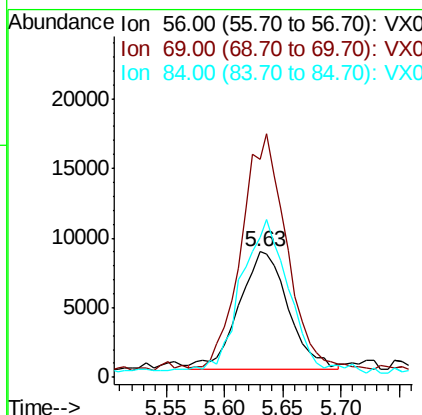
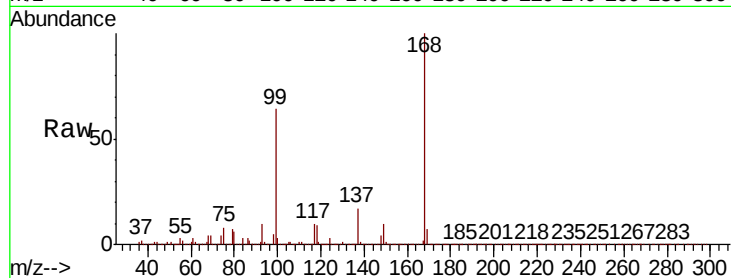




#31
Cyclohexane
Concen: 1.196 ug/l
RT: 5.63 min Scan# 778
Delta R.T. 0.08 min
Lab File: VX015382.D
Acq: 27 Mar 2020 15:28

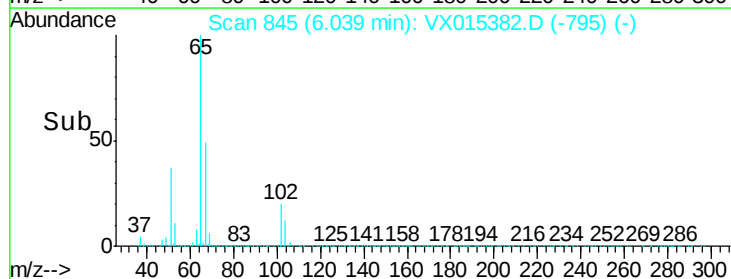
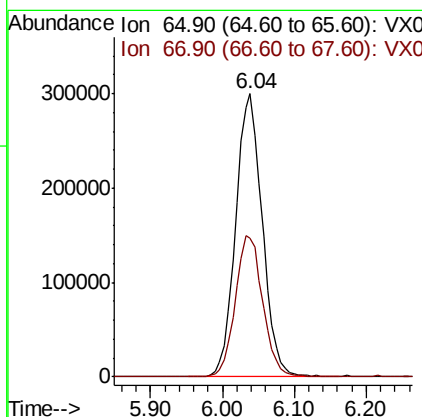
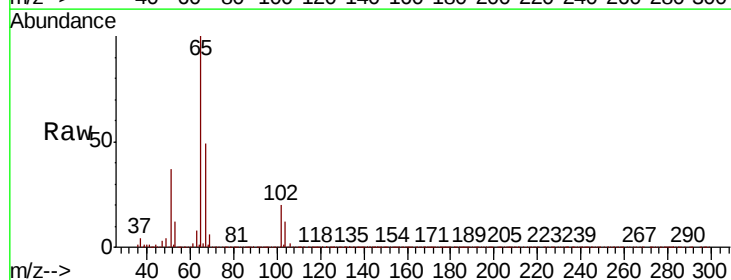
Instrument :
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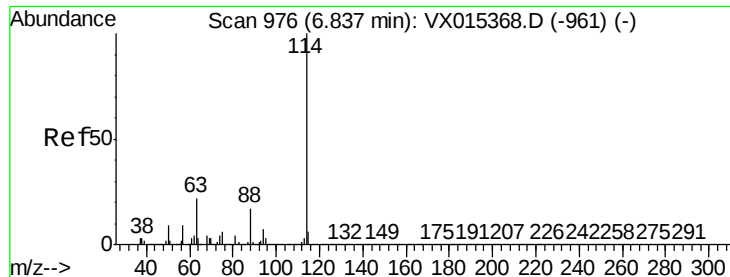
Tot Ion: 56 Resp: 24788
Ion Ratio Lower Upper
56 100
69 183.9 24.6 36.8#
84 115.3 66.1 99.1#



#33
1,2-Dichloroethane-d4
Concen: 46.809 ug/l
RT: 6.04 min Scan# 845
Delta R.T. 0.01 min
Lab File: VX015382.D
Acq: 27 Mar 2020 15:28

Tgt Ion: 65 Resp: 766283
Ion Ratio Lower Upper
65 100
67 51.0 0.0 102.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.84 min Scan# 976

Delta R.T. -0.00 min

Lab File: VX015382.D

Acq: 27 Mar 2020 15:28

Instrument :

MSVOA_X

ClientSampleId :

GHD1-WC-L-01

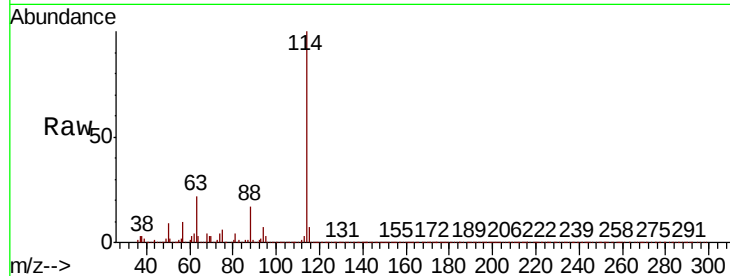
Tot Ion:114 Resp: 1889766

Ion Ratio Lower Upper

114 100

63 22.2 0.0 44.2

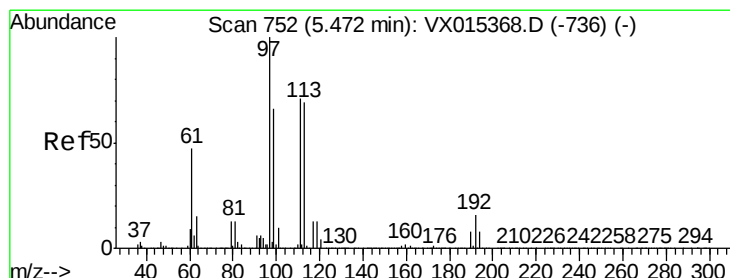
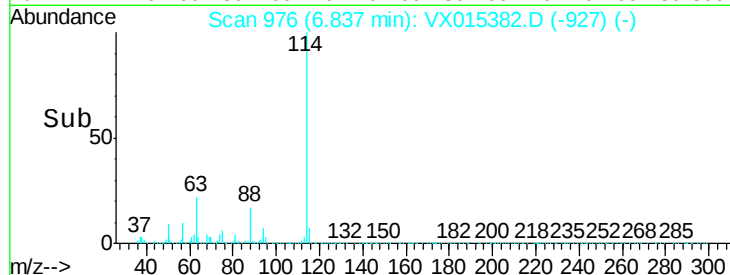
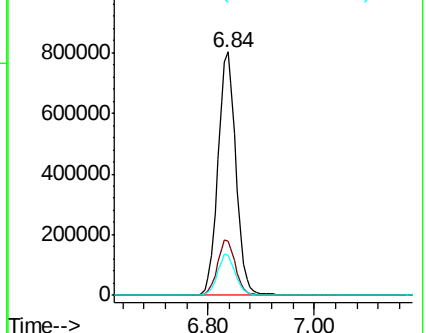
88 16.4 0.0 33.8



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: 48.835 ug/l

RT: 5.47 min Scan# 752

Delta R.T. -0.00 min

Lab File: VX015382.D

Acq: 27 Mar 2020 15:28

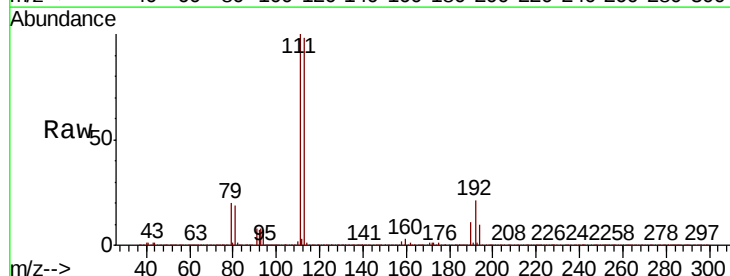
Tgt Ion:113 Resp: 589924

Ion Ratio Lower Upper

113 100

111 101.8 81.5 122.3

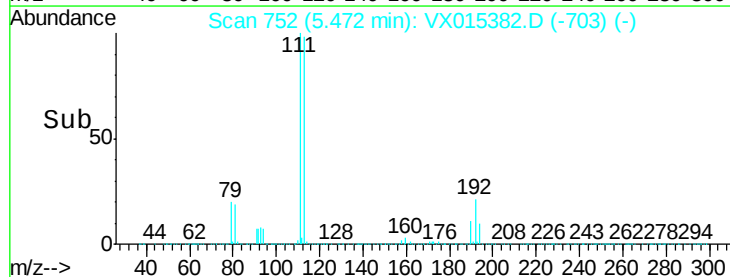
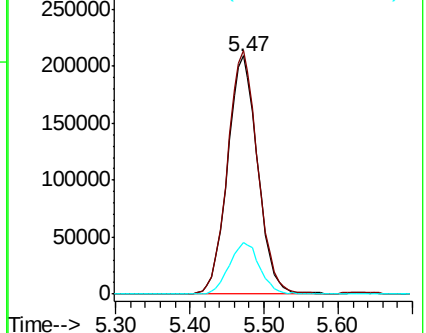
192 22.1 17.8 26.6

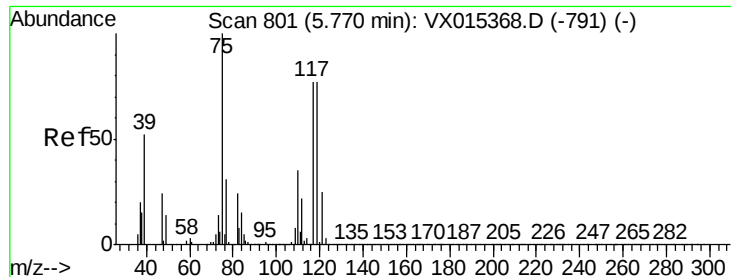


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

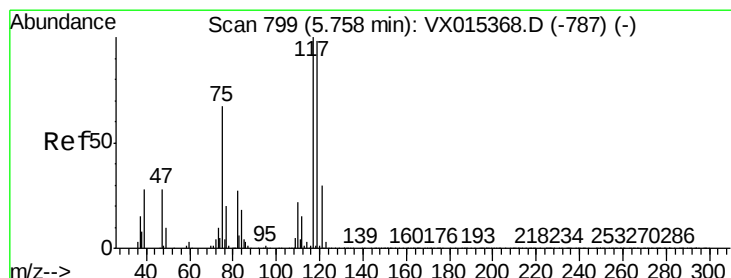
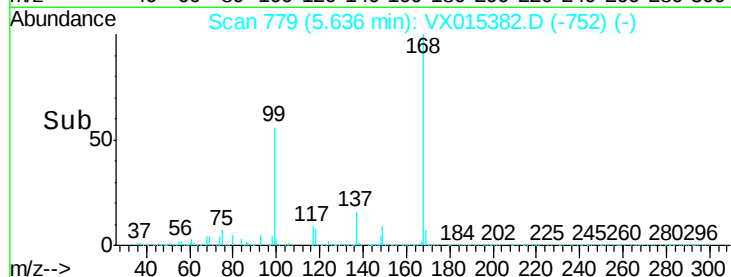
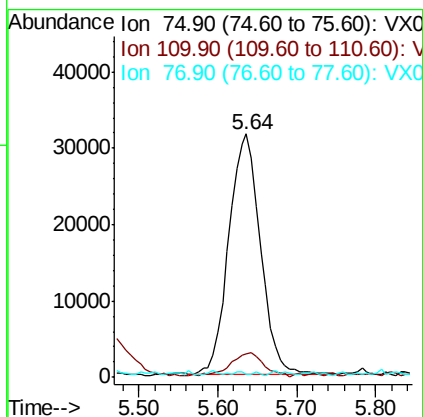
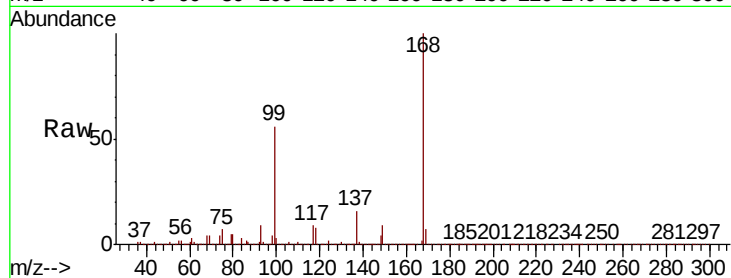




#36
 1,1-Dichloropropene
 Concen: 5.086 ug/l
 RT: 5.64 min Scan# 779
 Delta R.T. -0.13 min
 Lab File: VX015382.D
 Acq: 27 Mar 2020 15:28

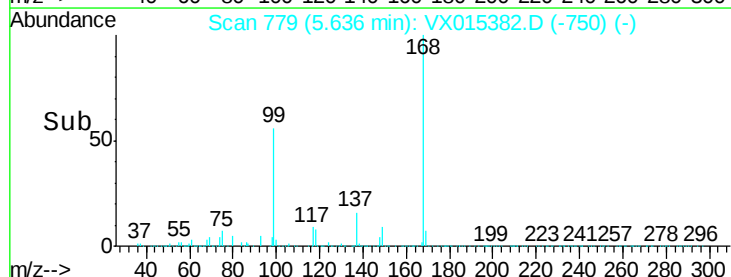
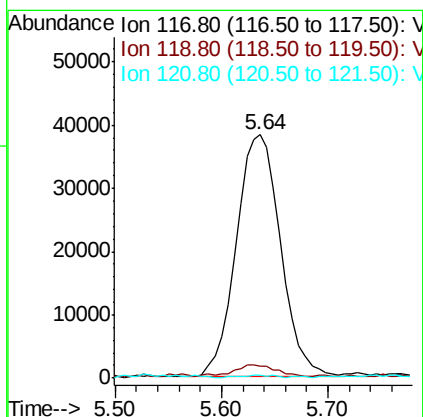
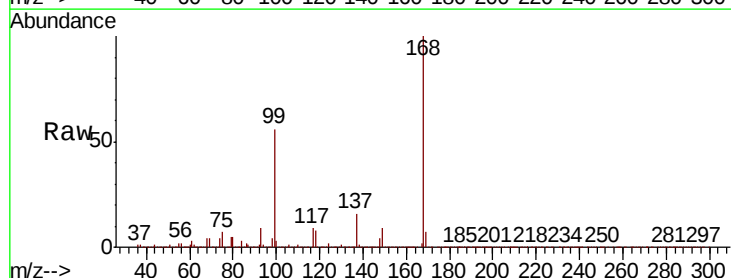
Instrument :
 MSVOA_X
 ClientSampleId :
 GHD1-WC-L-01

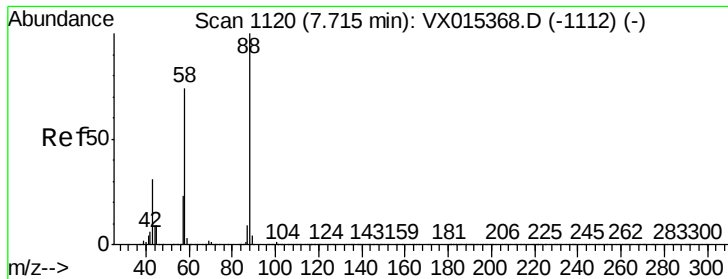
Tot Ion	Ratio	Lower	Upper
75	100		
110	10.9	17.1	51.3#
77	0.5	24.6	36.8#



#38
 Carbon Tetrachloride
 Concen: 5.907 ug/l
 RT: 5.64 min Scan# 779
 Delta R.T. -0.12 min
 Lab File: VX015382.D
 Acq: 27 Mar 2020 15:28

Tgt Ion	Ratio	Lower	Upper
117	100		
119	3.9	78.0	117.0#
121	0.8	23.8	35.8#





#49

1,4-Dioxane

Concen: 2.111 ug/l

RT: 7.70 min Scan# 1118

Delta R.T. -0.01 min

Lab File: VX015382.D

Acq: 27 Mar 2020 15:28

Instrument :

MSVOA_X

ClientSampled :

GHD1-WC-L-01

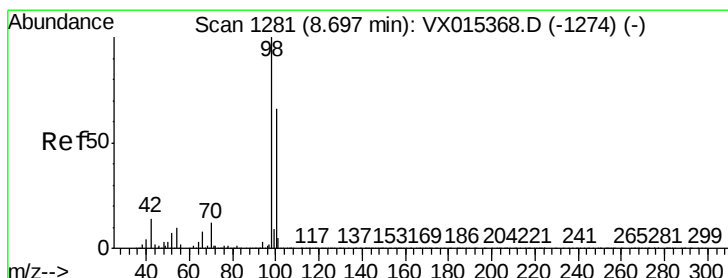
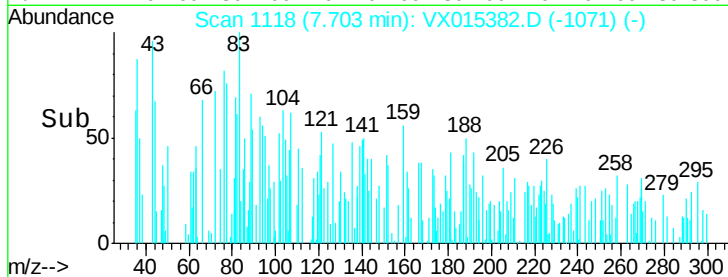
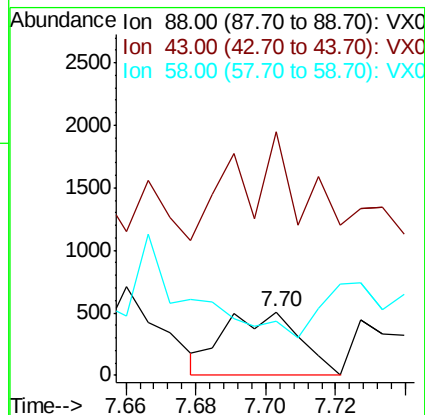
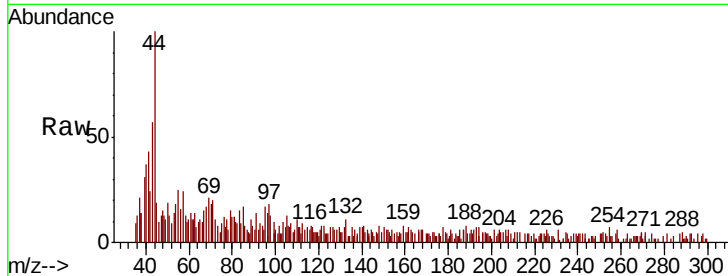
Tot Ion: 88 Resp: 753

Ion Ratio Lower Upper

88 100

43 60.6 30.1 45.1#

58 0.0 60.6 90.8#



#50

Toluene-d8

Concen: 51.464 ug/l

RT: 8.70 min Scan# 1281

Delta R.T. -0.00 min

Lab File: VX015382.D

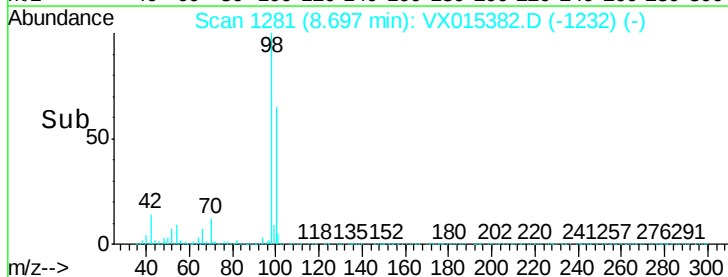
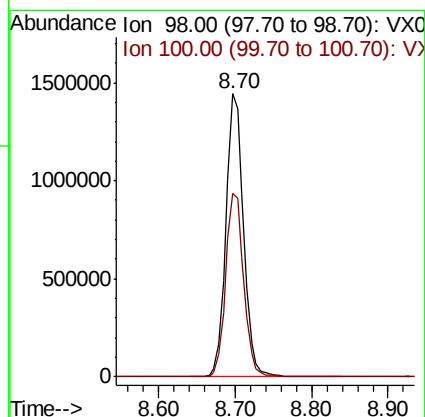
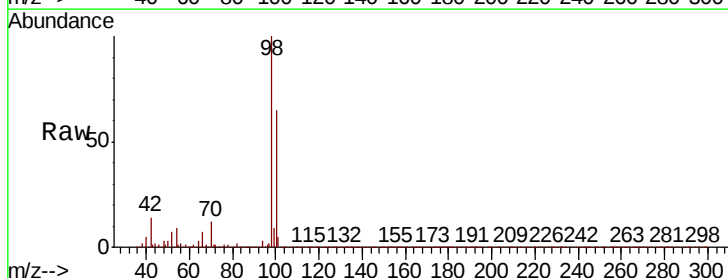
Acq: 27 Mar 2020 15:28

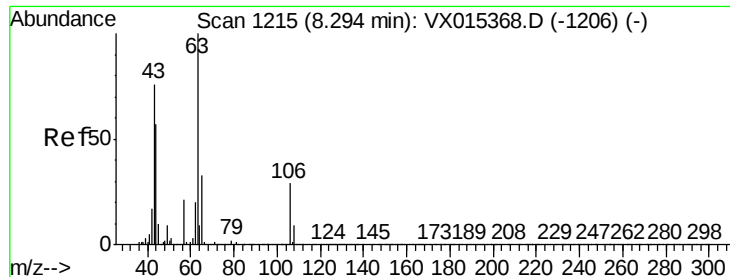
Tgt Ion: 98 Resp: 2288873

Ion Ratio Lower Upper

98 100

100 66.6 53.5 80.3

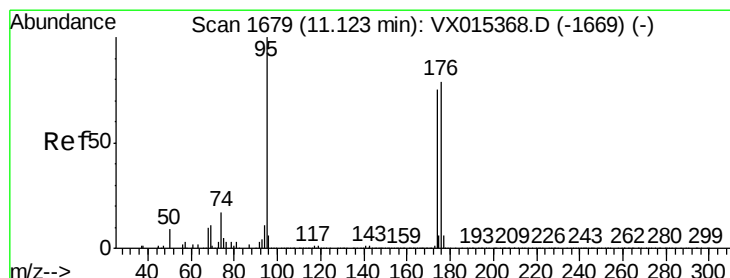
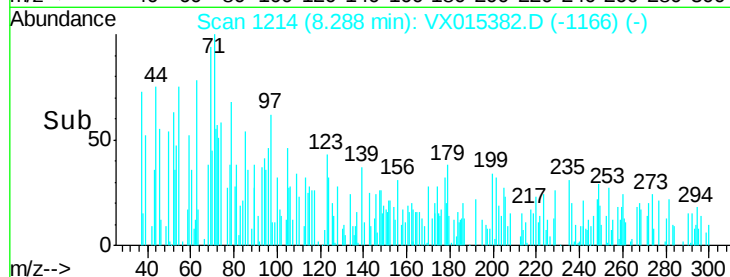
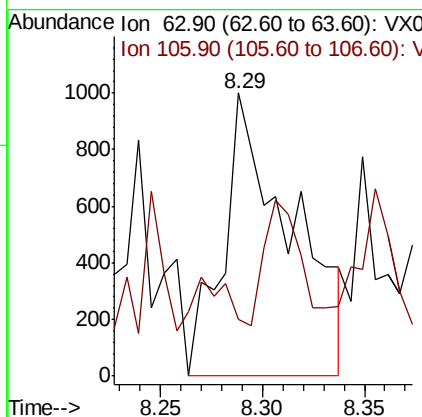
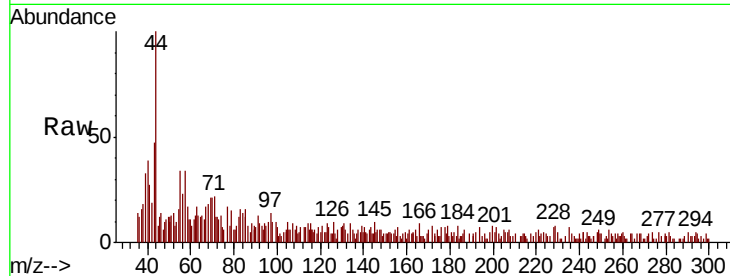




#58
2-Chloroethyl Vinyl ether
Concen: 0.209 ug/l
RT: 8.29 min Scan# 1214
Delta R.T. -0.01 min
Lab File: VX015382.D
Acq: 27 Mar 2020 15:28

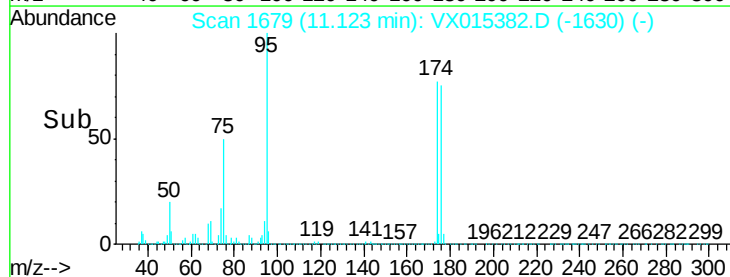
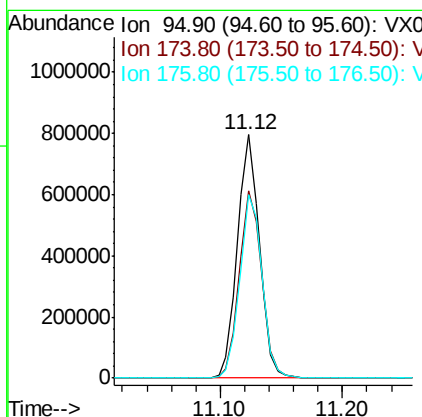
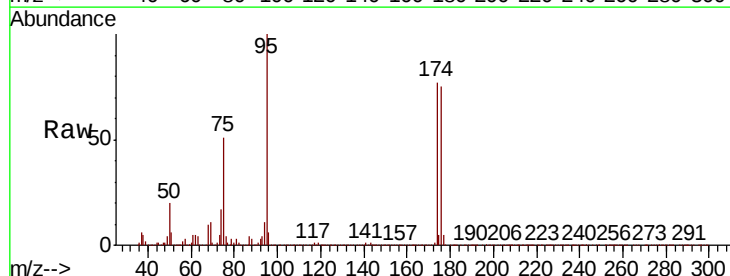
Instrument :
MSVOA_X
ClientSampled :
GHD1-WC-L-01

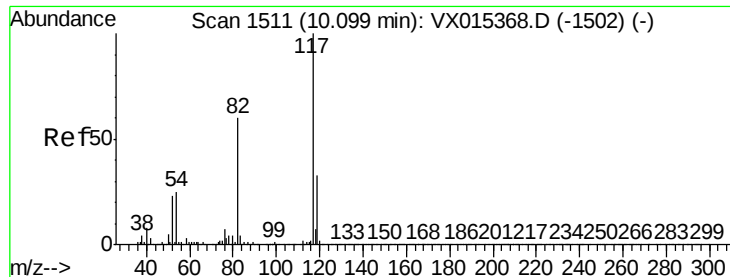
Tot Ion: 63 Resp: 2311
Ion Ratio Lower Upper
63 100
106 34.1 22.7 34.1#



#62
4-Bromofluorobenzene
Concen: 54.644 ug/l
RT: 11.12 min Scan# 1679
Delta R.T. -0.00 min
Lab File: VX015382.D
Acq: 27 Mar 2020 15:28

Tgt Ion: 95 Resp: 987682
Ion Ratio Lower Upper
95 100
174 78.2 0.0 158.6
176 76.2 0.0 159.0

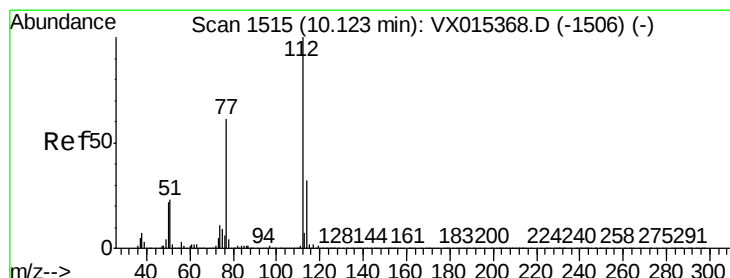
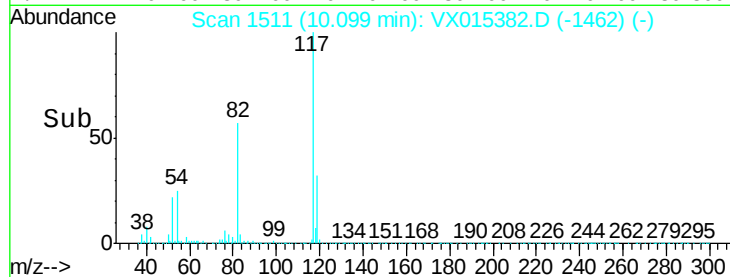
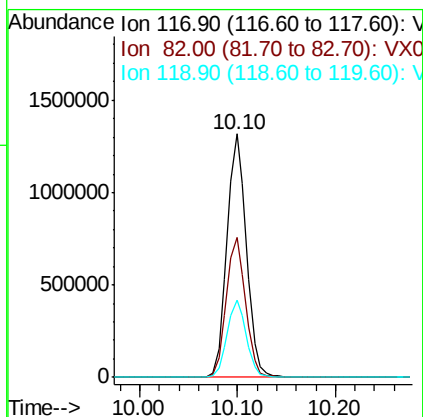
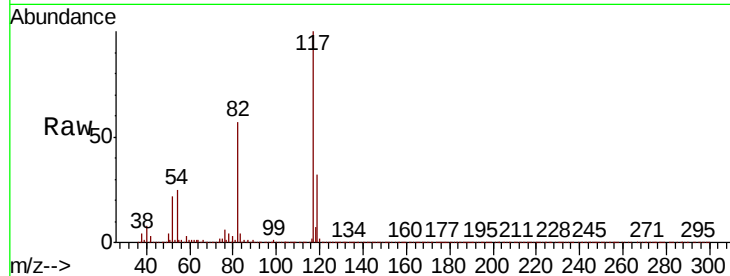




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1511
Delta R.T. -0.00 min
Lab File: VX015382.D
Acq: 27 Mar 2020 15:28

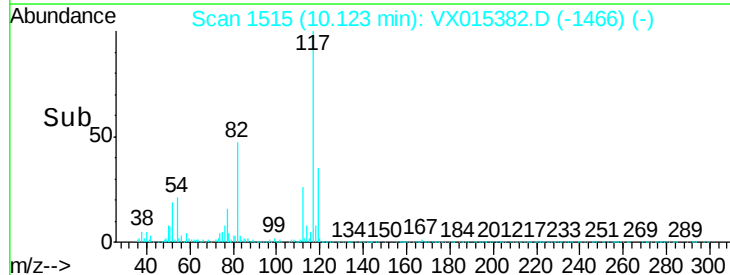
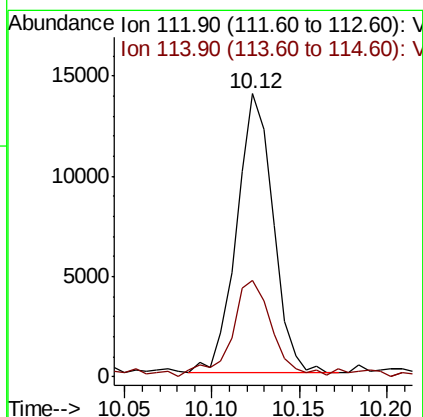
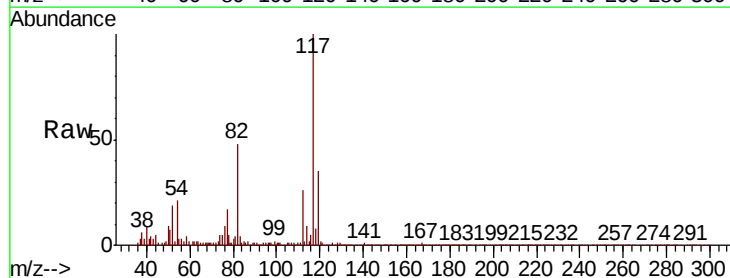
Instrument :
MSVOA_X
ClientSampleId :
GHD1-WC-L-01

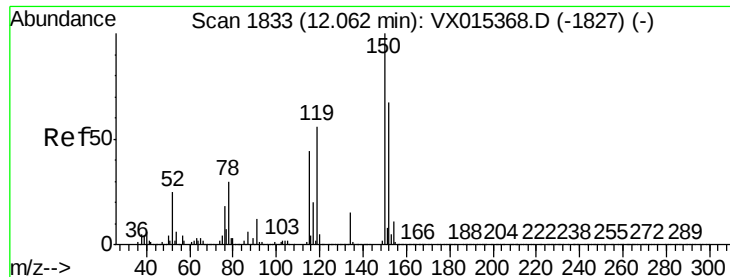
Tot Ion:117 Resp: 1814886
Ion Ratio Lower Upper
117 100
82 57.4 47.8 71.8
119 31.7 26.8 40.2



#65
Chlorobenzene
Concen: 0.555 ug/l
RT: 10.12 min Scan# 1515
Delta R.T. -0.00 min
Lab File: VX015382.D
Acq: 27 Mar 2020 15:28

Tgt Ion:112 Resp: 20076
Ion Ratio Lower Upper
112 100
114 32.3 25.5 38.3





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VX015382.D

Acq: 27 Mar 2020 15:28

Instrument :

MSVOA_X

ClientSampleId :

GHD1-WC-L-01

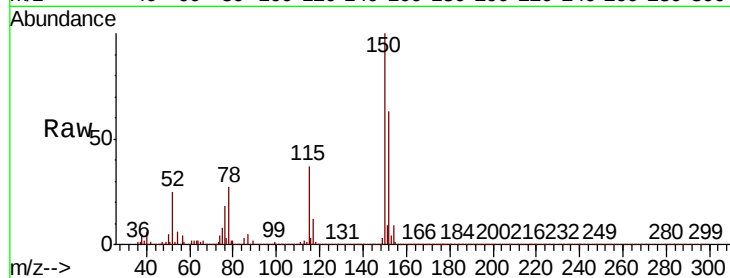
Tot Ion:152 Resp: 945951

Ion Ratio Lower Upper

152 100

115 59.6 39.0 116.9

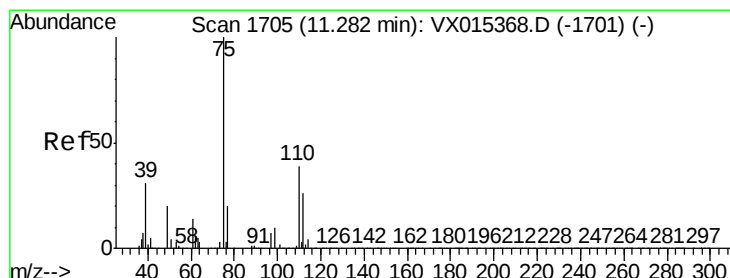
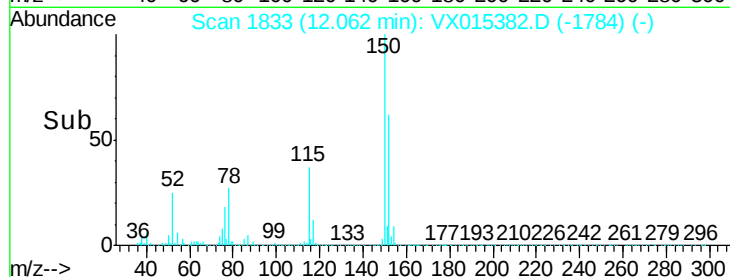
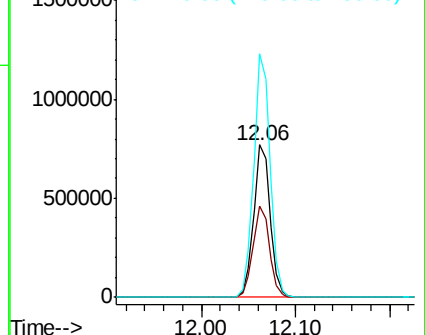
150 159.2 0.0 340.8



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 25.734 ug/l

RT: 11.12 min Scan# 1679

Delta R.T. -0.16 min

Lab File: VX015382.D

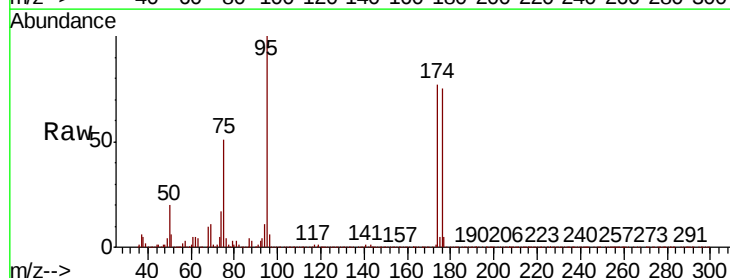
Acq: 27 Mar 2020 15:28

Tgt Ion: 75 Resp: 500591

Ion Ratio Lower Upper

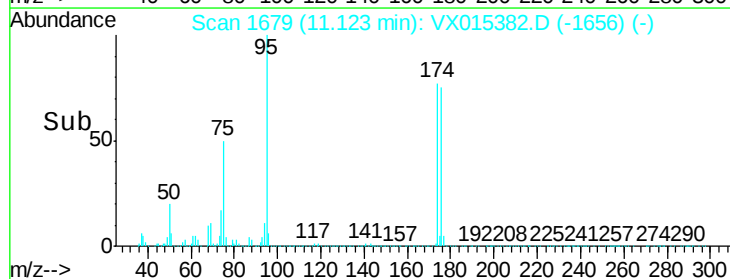
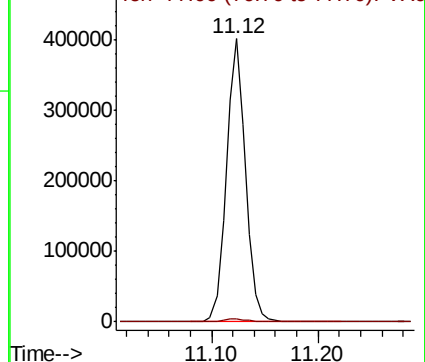
75 100

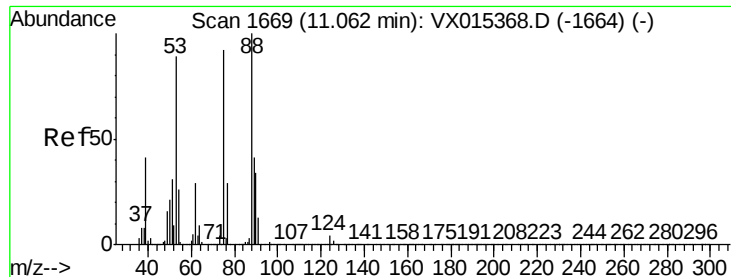
77 1.3 21.2 63.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

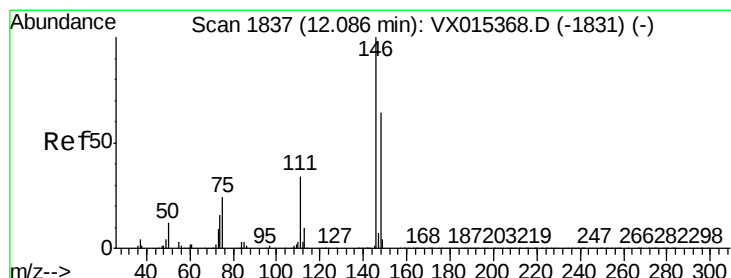
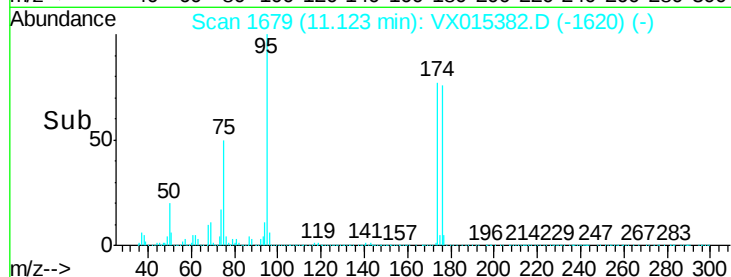
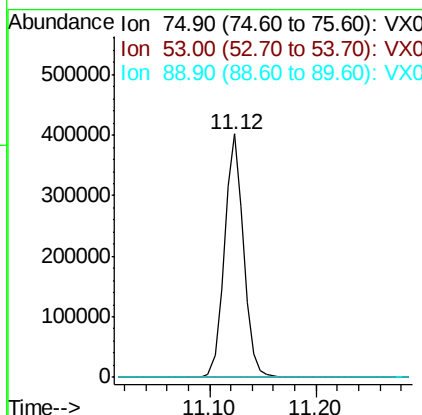
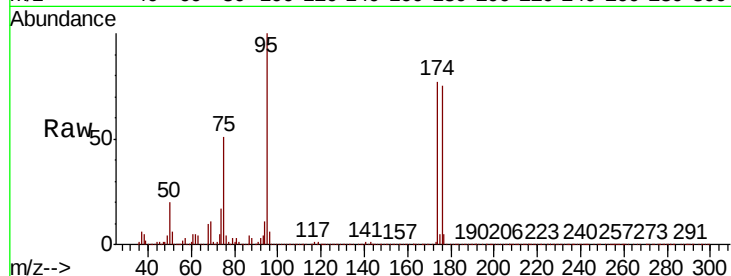




#81
trans-1,4-Dichloro-2-butene
Concen: 61.747 ug/l
RT: 11.12 min Scan# 1679
Delta R.T. 0.06 min
Lab File: VX015382.D
Acq: 27 Mar 2020 15:28

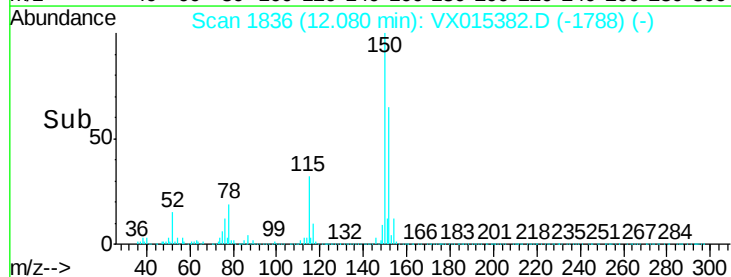
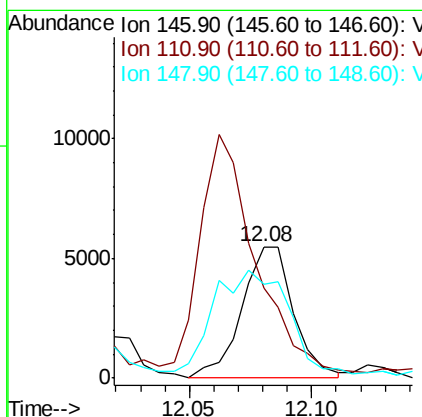
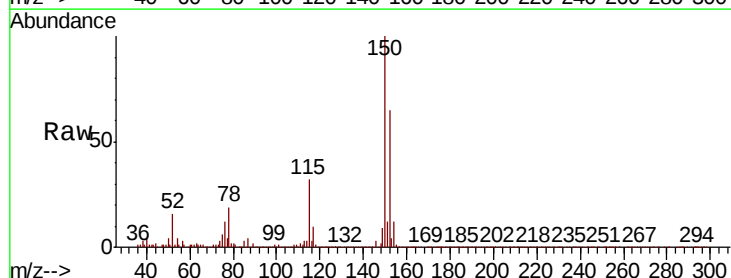
Instrument :
MSVOA_X
ClientSampleId :
GHD1-WC-L-01

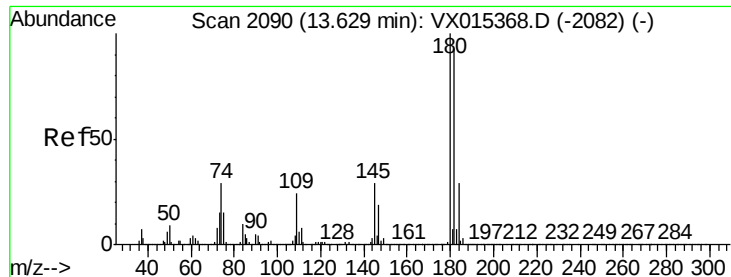
Tot Ion: 75 Resp: 500591
Ion Ratio Lower Upper
75 100
53 0.1 80.1 120.1#
89 0.0 36.1 54.1#



#88
1,4-Dichlorobenzene
Concen: 0.270 ug/l
RT: 12.08 min Scan# 1836
Delta R.T. -0.01 min
Lab File: VX015382.D
Acq: 27 Mar 2020 15:28

Tgt Ion: 146 Resp: 8144
Ion Ratio Lower Upper
146 100
111 190.8 19.1 57.5#
148 109.5 32.4 97.2#

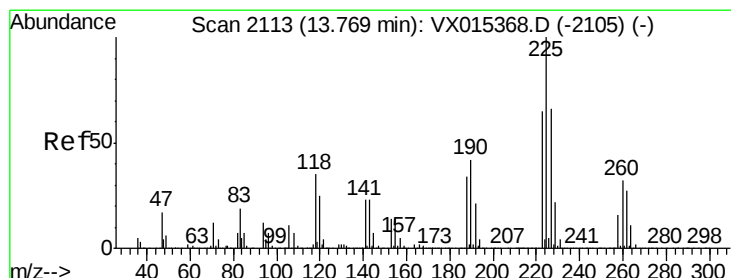
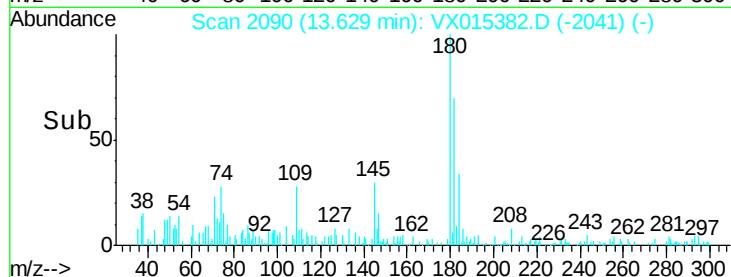
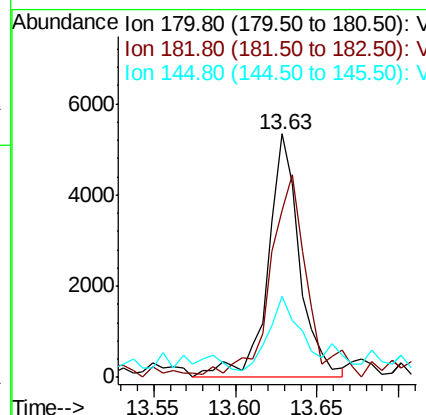
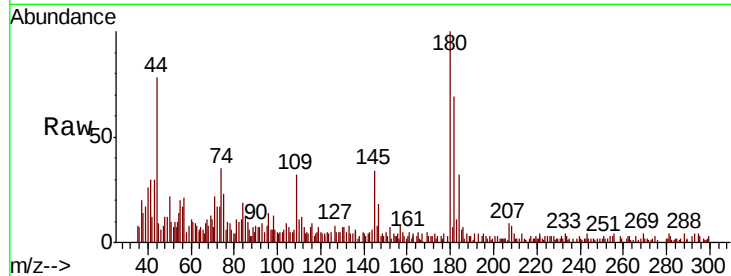




#93
 1,2,4-Trichlorobenzene
 Concen: 0.315 ug/l
 RT: 13.63 min Scan# 2090
 Delta R.T. -0.00 min
 Lab File: VX015382.D
 Acq: 27 Mar 2020 15:28

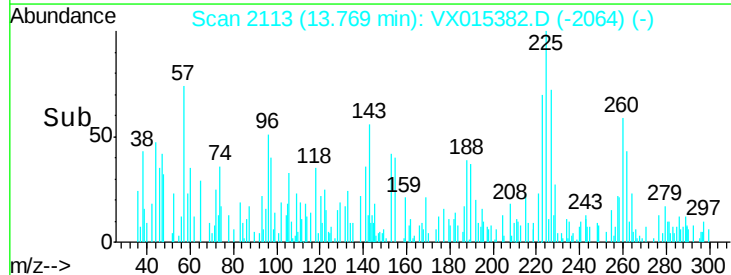
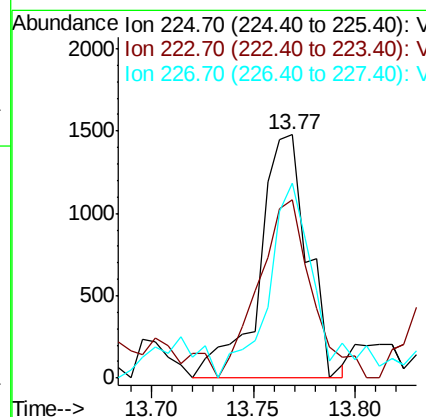
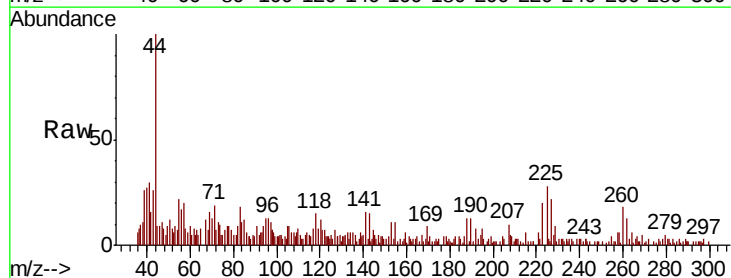
Instrument :
 MSVOA_X
 ClientSampleId :
 GHD1-WC-L-01

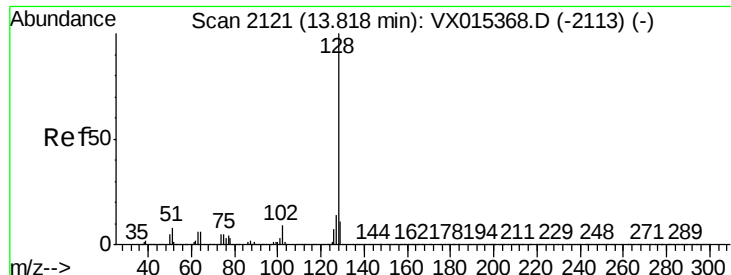
Tot Ion	Ratio	Lower	Upper
180	100		
182	97.2	46.9	140.7
145	30.9	14.9	44.5



#94
 Hexachlorobutadiene
 Concen: 0.225 ug/l
 RT: 13.77 min Scan# 2113
 Delta R.T. -0.00 min
 Lab File: VX015382.D
 Acq: 27 Mar 2020 15:28

Tgt Ion	Ratio	Lower	Upper
225	100		
223	80.2	31.9	95.7
227	81.3	30.4	91.3





#95
Naphthalene
Concen: 0.710 ug/l
RT: 13.82 min Scan# 2121
Delta R.T. -0.00 min
Lab File: VX015382.D
Acq: 27 Mar 2020 15:28

Instrument :
MSVOA_X
ClientSampleId :
GHD1-WC-L-01

Tot Ion	Ratio	Lower	Upper
128	100		
127	16.8	10.6	15.8
129	10.7	8.8	13.2

