

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY032420\
 Data File : VY002055.D
 Acq On : 24 Mar 2020 16:55
 Operator : SY/MD
 Sample : L2013-02RE
 Misc : 4.29G/5ML/MSVOA Y/SOIL
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 GHD1-SB-01-8-9RE

Quant Time: Mar 24 19:03:25 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\82Y030420S.M
 Quant Title : SW846 8260
 QLast Update : Thu Mar 05 04:05:33 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.81	168	126321	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.71	114	253794	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.50	117	205633	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.43	152	60906	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.16	65	83711	62.07	ug/l	0.00
Spiked Amount	50.000		Recovery	=	124.14%	
35) Dibromofluoromethane	7.74	113	75272	54.32	ug/l	-0.01
Spiked Amount	50.000		Recovery	=	108.64%	
50) Toluene-d8	10.19	98	296281	50.70	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.40%	
62) 4-Bromofluorobenzene	12.49	95	80642	39.69	ug/l	0.00
Spiked Amount	50.000		Recovery	=	79.38%	

Target Compounds

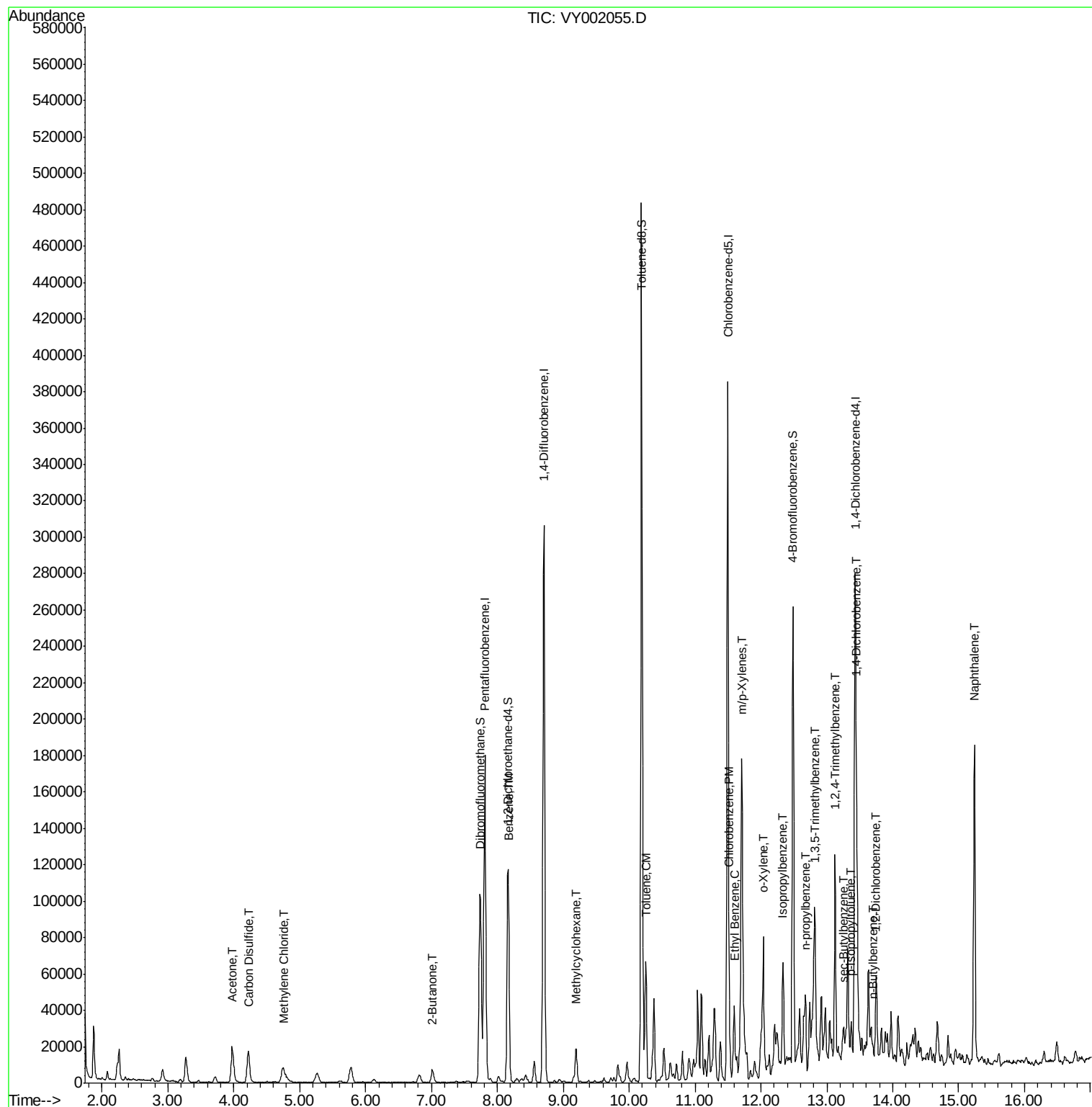
						Qvalue
16) Acetone	3.97	43	34292	87.305	ug/l	100
17) Carbon Disulfide	4.22	76	35630	7.547	ug/l	98
20) Methylene Chloride	4.75	84	5421	3.220	ug/l	94
25) 2-Butanone	7.01	43	10613	17.768	ug/l #	84
39) Methylcyclohexane	9.19	83	7968	2.460	ug/l	97
40) Benzene	8.18	78	11326	1.565	ug/l	97
52) Toluene	10.25	92	26493	6.025	ug/l	100
65) Chlorobenzene	11.52	112	10585	2.583	ug/l	92
67) Ethyl Benzene	11.60	91	20657	2.703	ug/l	98
68) m/p-Xylenes	11.70	106	49372	17.476	ug/l	99
69) o-Xylene	12.03	106	18655	7.006	ug/l	97
73) Isopropylbenzene	12.33	105	30772	6.618	ug/l	99
78) n-propylbenzene	12.67	91	30960	5.397	ug/l	100
80) 1,3,5-Trimethylbenzene	12.81	105	23712	6.195	ug/l	98
84) 1,2,4-Trimethylbenzene	13.13	105	61437	16.174	ug/l	99
85) sec-Butylbenzene	13.25	105	7559	1.613	ug/l #	70
86) p-Isopropyltoluene	13.38	119	7742	1.915	ug/l	99
88) 1,4-Dichlorobenzene	13.45	146	30504	15.577	ug/l	94
89) n-Butylbenzene	13.70	91	5765	1.375	ug/l #	72
91) 1,2-Dichlorobenzene	13.74	146	8030	4.579	ug/l	92
95) Naphthalene	15.24	128	136814	50.717	ug/l	99

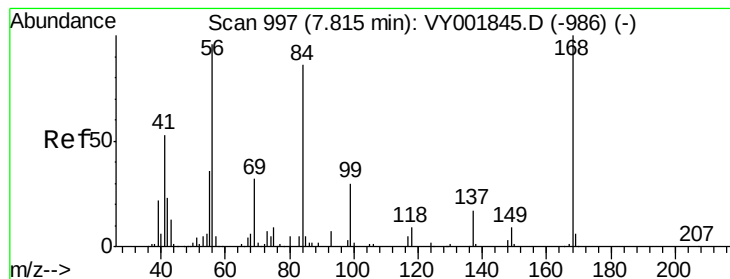
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.81 min Scan# 996

Delta R.T. -0.01 min

Lab File: VY002055.D

Acq: 24 Mar 2020 16:55

Instrument :

MSVOA_Y

ClientSampleId :

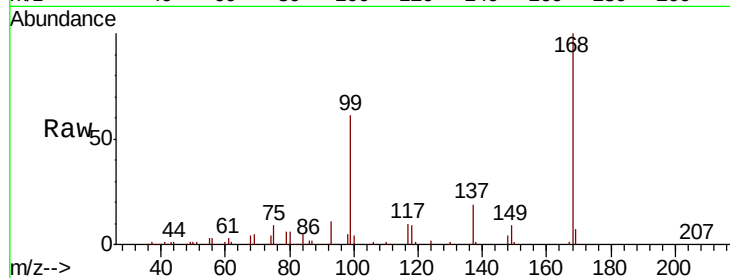
GHD1-SB-01-8-9RE

Tot Ion:168 Resp: 126321

Ion Ratio Lower Upper

168 100

99 61.1 46.7 70.1



Abundance Ion 167.90 (167.60 to 168.60): VY001845.D (-986) (-)

Ion 98.90 (98.60 to 99.60): VY001845.D (-986) (-)

7.81

60000

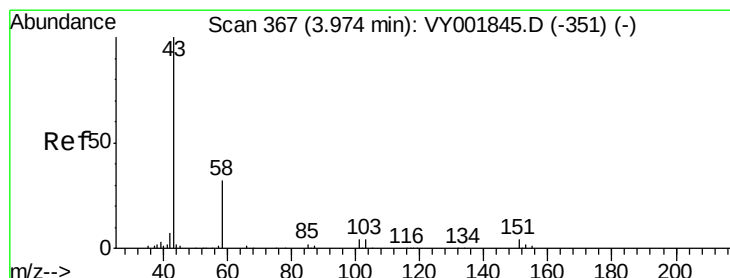
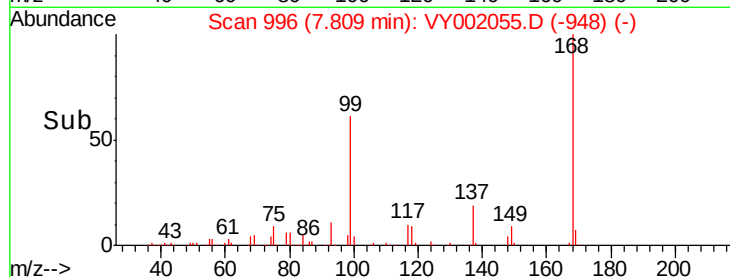
40000

20000

0

7.70 7.80 7.90

Time-->



#16

Acetone

Concen: 87.305 ug/l

RT: 3.97 min Scan# 367

Delta R.T. 0.00 min

Lab File: VY002055.D

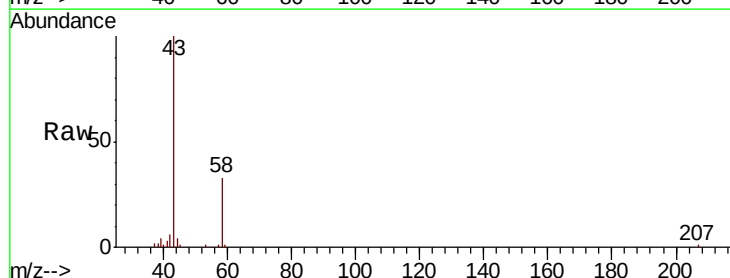
Acq: 24 Mar 2020 16:55

Tgt Ion: 43 Resp: 34292

Ion Ratio Lower Upper

43 100

58 32.6 25.9 38.9



Abundance Ion 43.00 (42.70 to 43.70): VY001845.D (-351) (-)

Ion 58.00 (57.70 to 58.70): VY001845.D (-351) (-)

3.97

15000

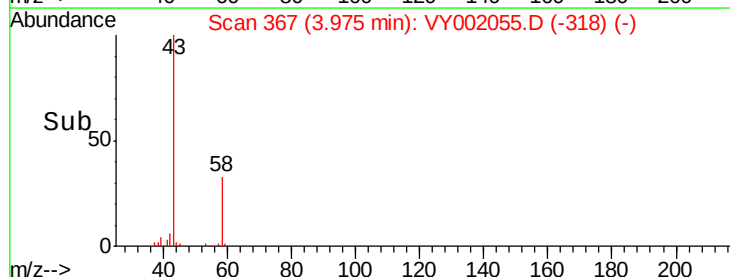
10000

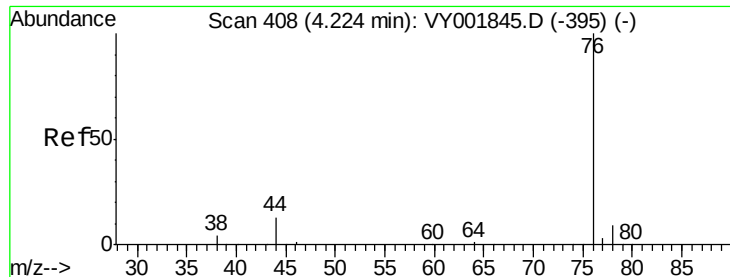
5000

0

3.90 4.00 4.10

Time-->





#17

Carbon Disulfide

Concen: 7.547 ug/l

RT: 4.22 min Scan# 408

Delta R.T. 0.00 min

Lab File: VY002055.D

Acq: 24 Mar 2020 16:55

Instrument :

MSVOA_Y

ClientSampleId :

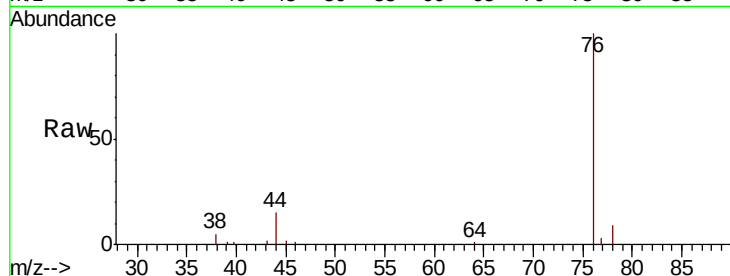
GHD1-SB-01-8-9RE

Tot Ion: 76 Resp: 35630

Ion Ratio Lower Upper

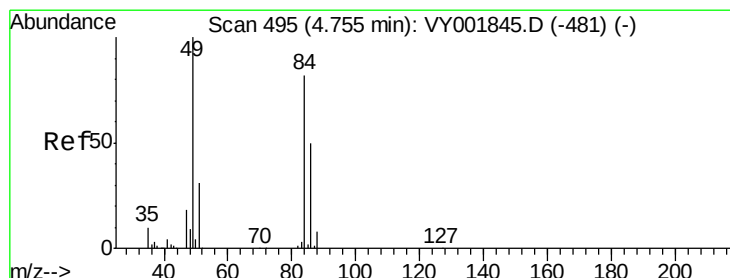
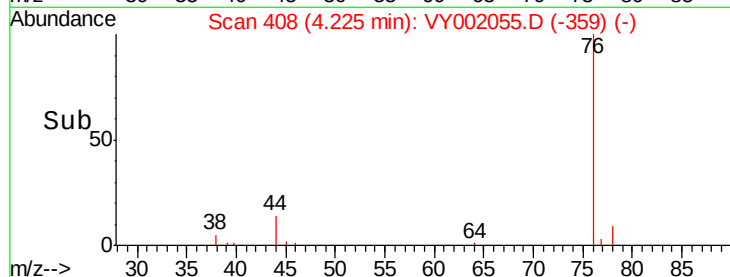
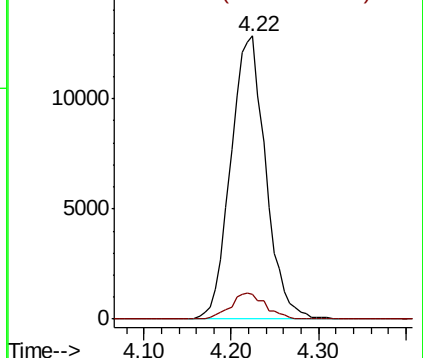
76 100

78 8.6 7.4 11.2



Abundance Ion 75.90 (75.60 to 76.60): VY0

Ion 77.90 (77.60 to 78.60): VY0



#20

Methylene Chloride

Concen: 3.220 ug/l

RT: 4.75 min Scan# 494

Delta R.T. -0.01 min

Lab File: VY002055.D

Acq: 24 Mar 2020 16:55

Tgt Ion: 84 Resp: 5421

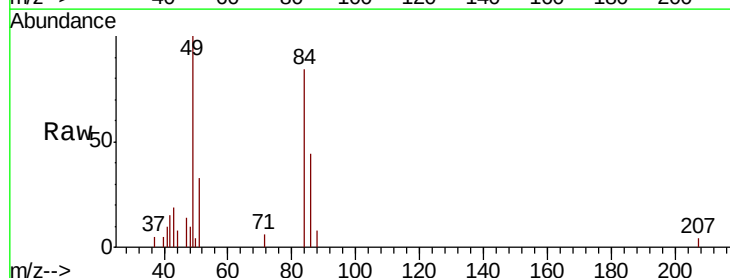
Ion Ratio Lower Upper

84 100

49 118.4 98.2 147.2

51 38.9 30.2 45.2

86 52.4 48.9 73.3

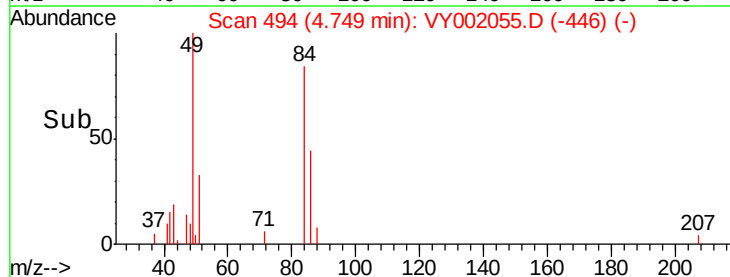
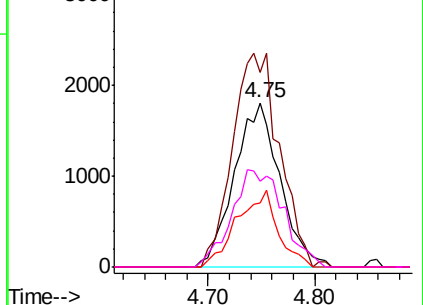


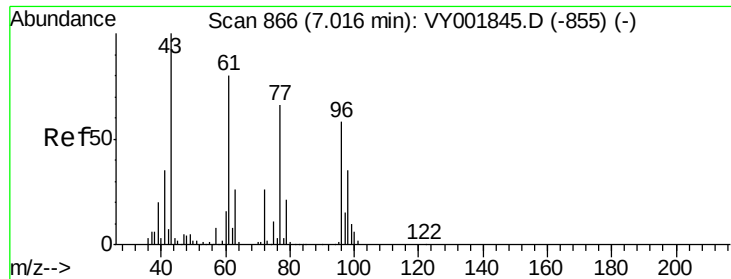
Abundance Ion 83.90 (83.60 to 84.60): VY0

Ion 48.90 (48.60 to 49.60): VY0

Ion 50.90 (50.60 to 51.60): VY0

Ion 85.90 (85.60 to 86.60): VY0





#25

2-Butanone

Concen: 17.768 ug/l

RT: 7.01 min Scan# 865

Delta R.T. -0.01 min

Lab File: VY002055.D

Acq: 24 Mar 2020 16:55

Instrument :

MSVOA_Y

ClientSampleId :

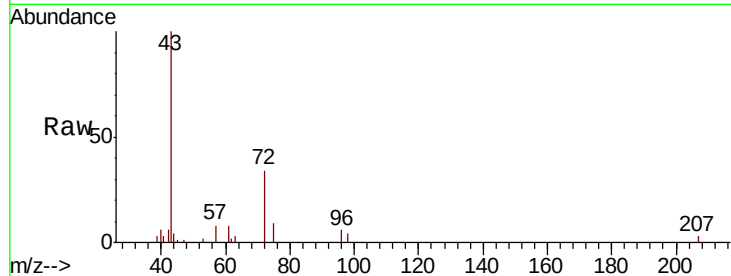
GHD1-SB-01-8-9RE

Tot Ion: 43 Resp: 10613

Ion Ratio Lower Upper

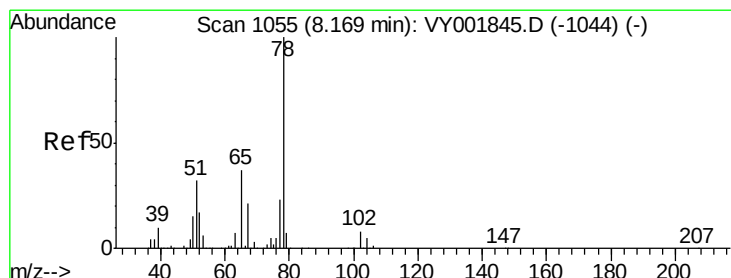
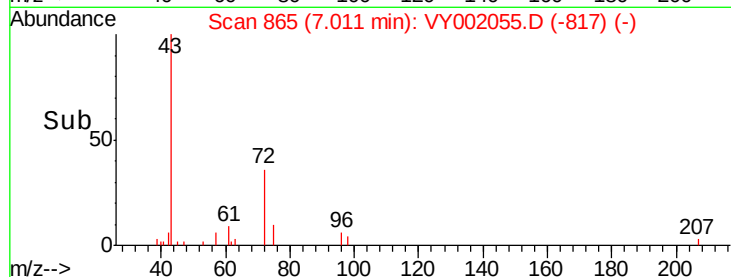
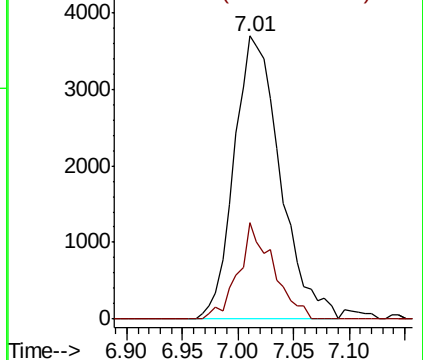
43 100

72 34.2 20.9 31.3#



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 72.00 (71.70 to 72.70): VY0



#33

1,2-Dichloroethane-d4

Concen: 62.074 ug/l

RT: 8.16 min Scan# 1054

Delta R.T. -0.01 min

Lab File: VY002055.D

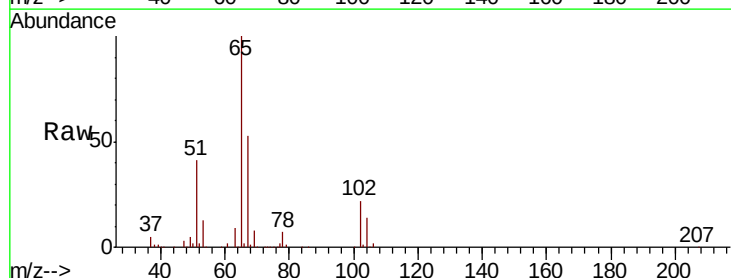
Acq: 24 Mar 2020 16:55

Tgt Ion: 65 Resp: 83711

Ion Ratio Lower Upper

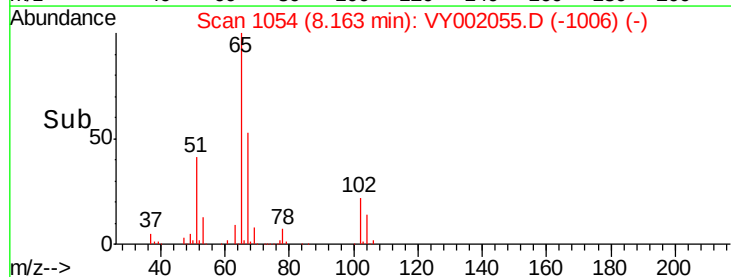
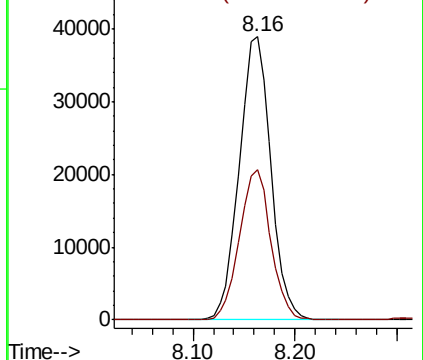
65 100

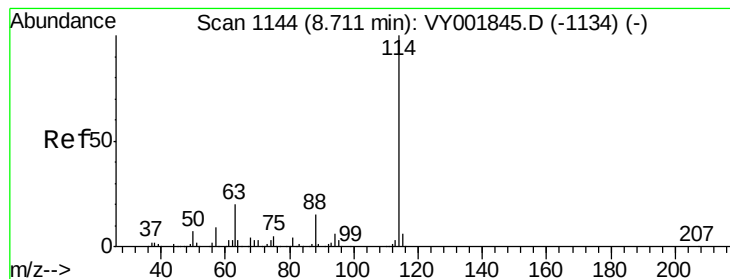
67 52.9 0.0 110.8



Abundance Ion 64.90 (64.60 to 65.60): VY0

Ion 66.90 (66.60 to 67.60): VY0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.71 min Scan# 1143

Delta R.T. -0.01 min

Lab File: VY002055.D

Acq: 24 Mar 2020 16:55

Instrument :

MSVOA_Y

ClientSampleId :

GHD1-SB-01-8-9RE

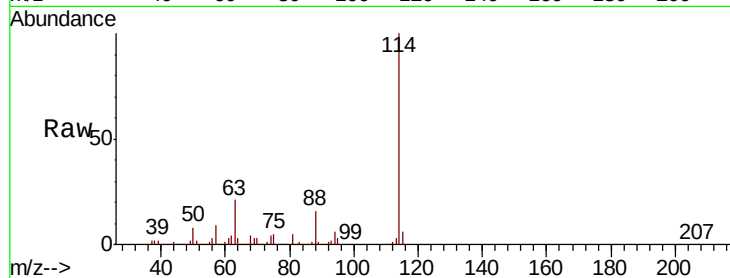
Tot Ion:114 Resp: 253794

Ion Ratio Lower Upper

114 100

63 20.9 0.0 39.4

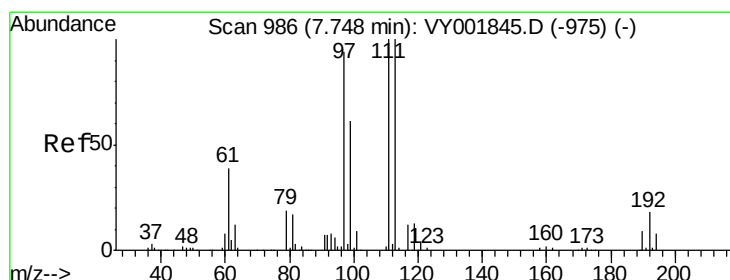
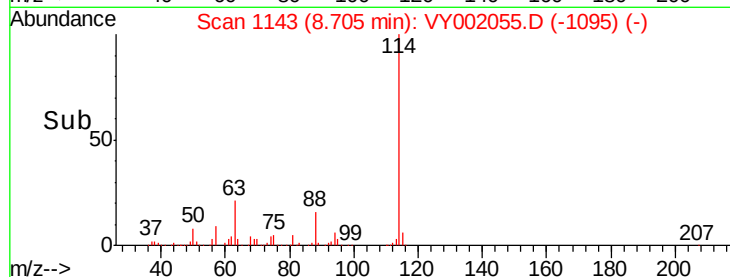
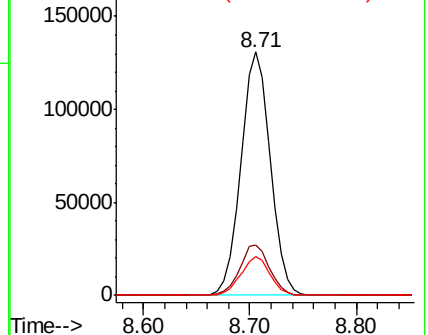
88 16.0 0.0 30.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VY0

Ion 87.90 (87.60 to 88.60): VY0



#35

Dibromofluoromethane

Concen: 54.315 ug/l

RT: 7.74 min Scan# 984

Delta R.T. -0.01 min

Lab File: VY002055.D

Acq: 24 Mar 2020 16:55

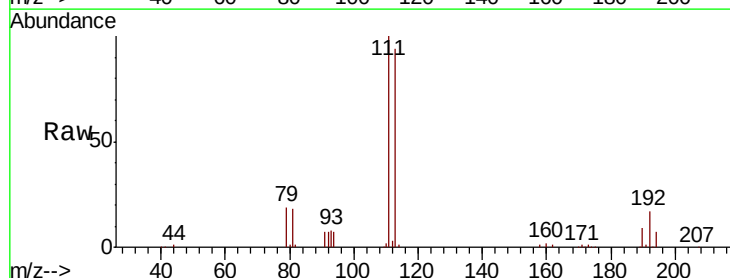
Tgt Ion:113 Resp: 75272

Ion Ratio Lower Upper

113 100

111 104.0 81.8 122.8

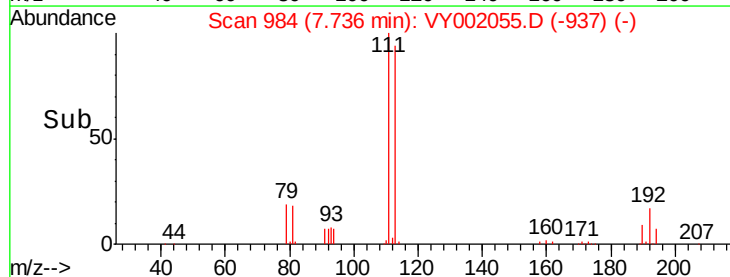
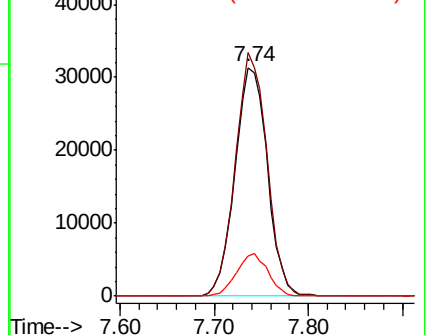
192 18.0 14.2 21.2

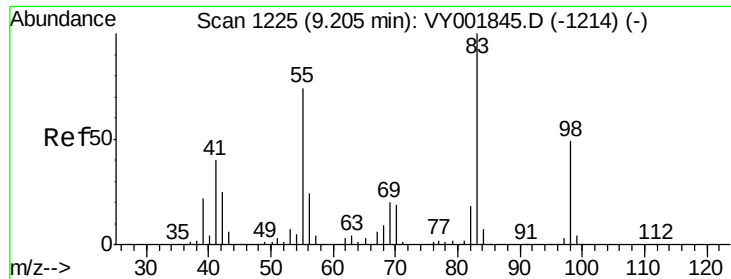


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

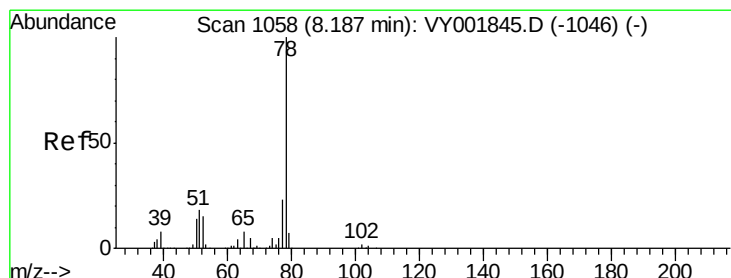
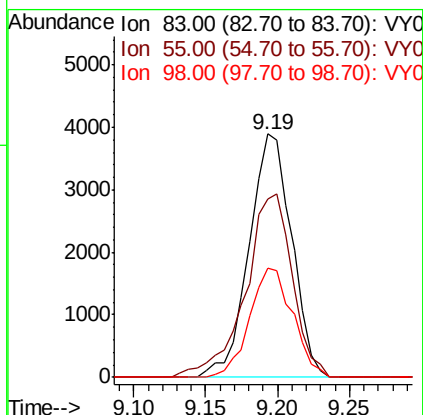
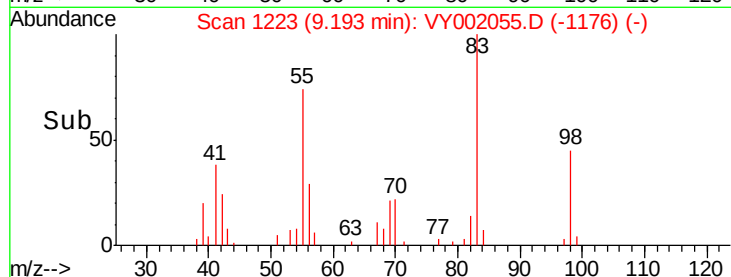
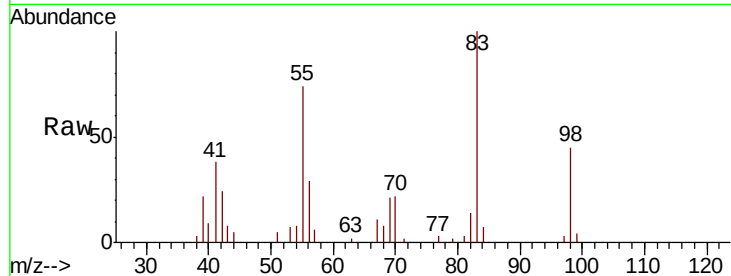




#39
Methylvlcyclohexane
Concen: 2.460 ug/l
RT: 9.19 min Scan# 1223
Delta R.T. -0.01 min
Lab File: VY002055.D
Acq: 24 Mar 2020 16:55

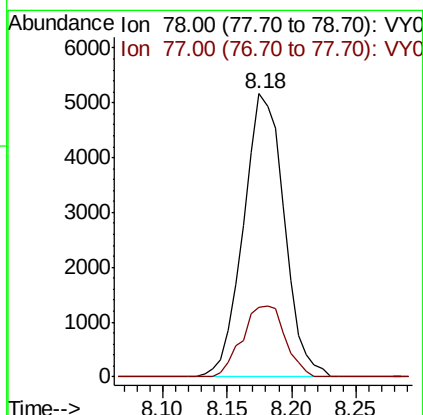
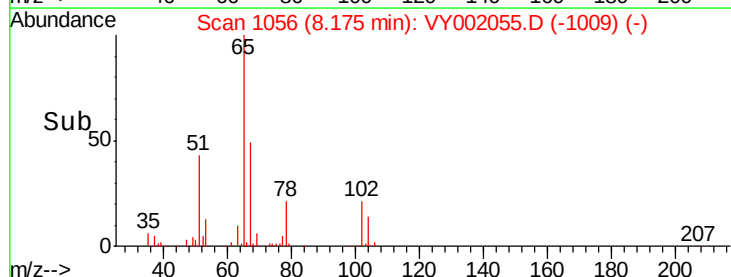
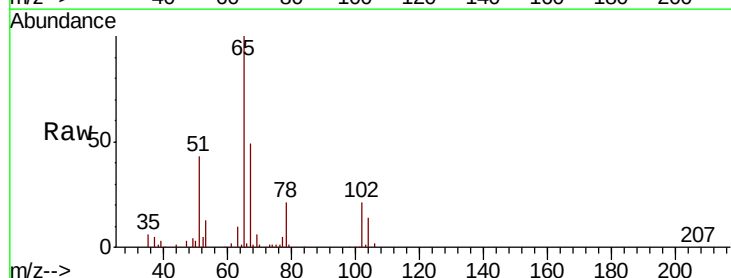
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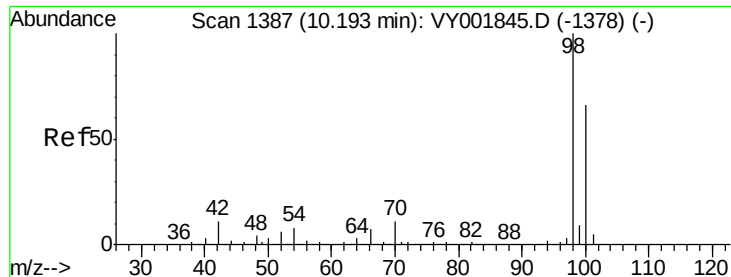
Tot Ion: 83 Resp: 7968
Ion Ratio Lower Upper
83 100
55 73.5 59.4 89.0
98 44.9 38.9 58.3



#40
Benzene
Concen: 1.565 ug/l
RT: 8.18 min Scan# 1056
Delta R.T. -0.01 min
Lab File: VY002055.D
Acq: 24 Mar 2020 16:55

Tgt Ion: 78 Resp: 11326
Ion Ratio Lower Upper
78 100
77 24.6 18.7 28.1





#50

Toluene-d8

Concen: 50.700 ug/l

RT: 10.19 min Scan# 1386

Delta R.T. -0.01 min

Lab File: VY002055.D

Acq: 24 Mar 2020 16:55

Instrument :

MSVOA_Y

ClientSampleId :

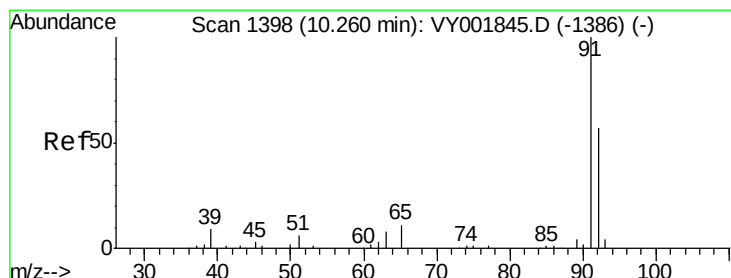
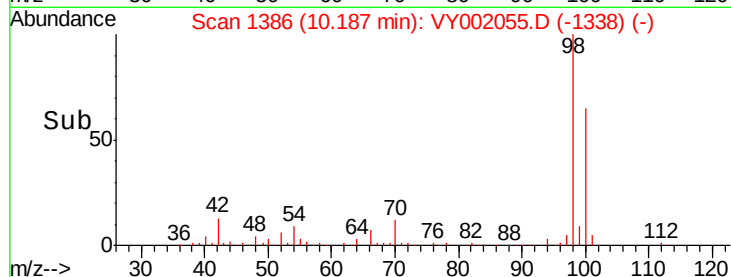
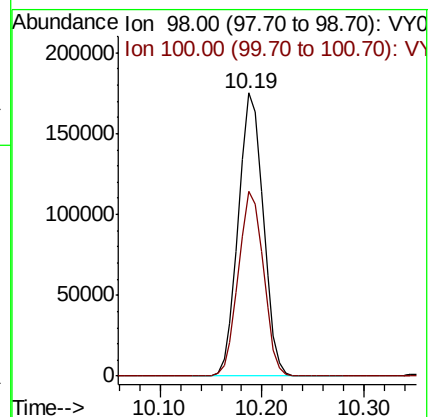
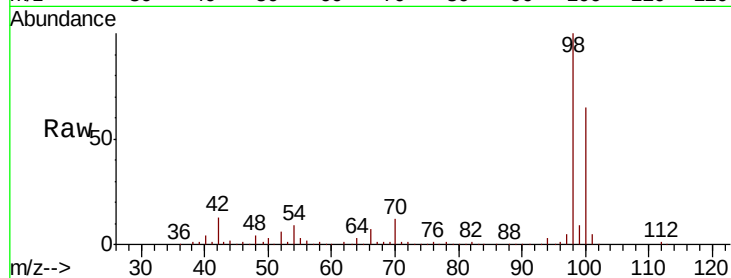
GHD1-SB-01-8-9RE

Tot Ion: 98 Resp: 296281

Ion Ratio Lower Upper

98 100

100 65.6 53.0 79.4



#52

Toluene

Concen: 6.025 ug/l

RT: 10.25 min Scan# 1397

Delta R.T. -0.01 min

Lab File: VY002055.D

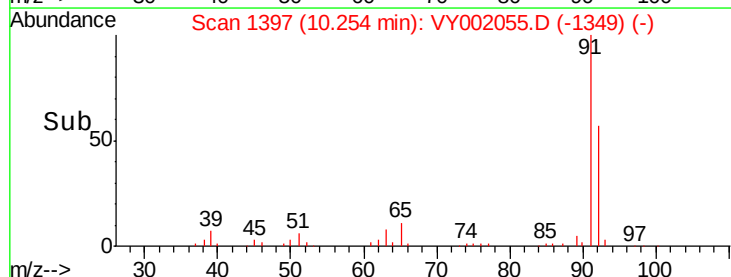
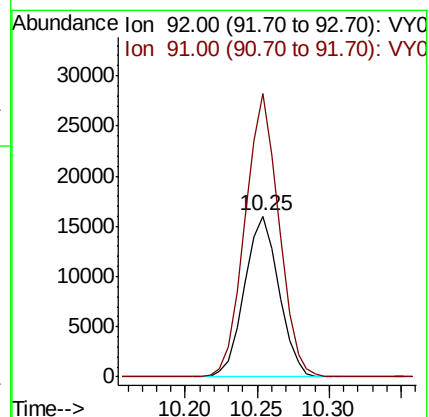
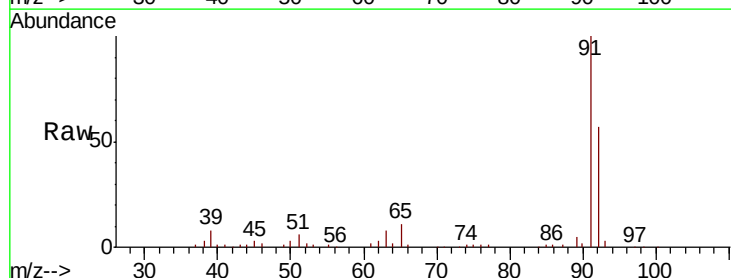
Acq: 24 Mar 2020 16:55

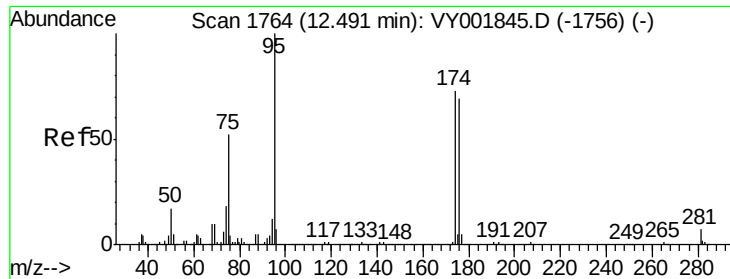
Tgt Ion: 92 Resp: 26493

Ion Ratio Lower Upper

92 100

91 173.0 138.6 208.0

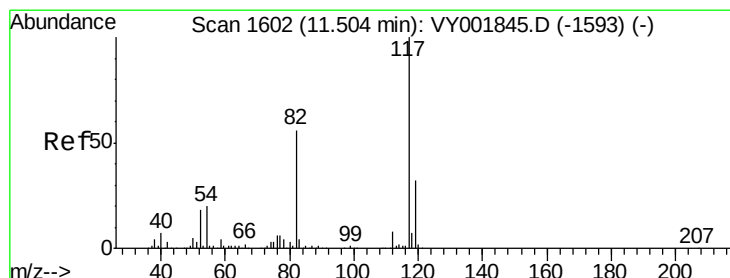
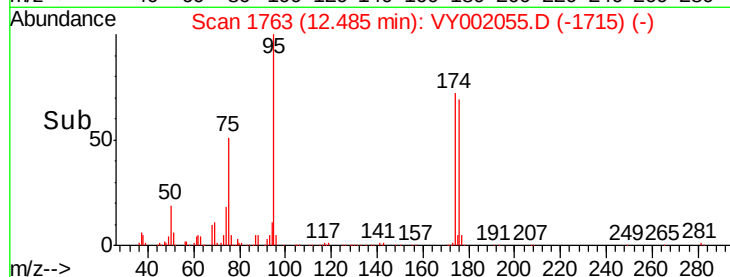
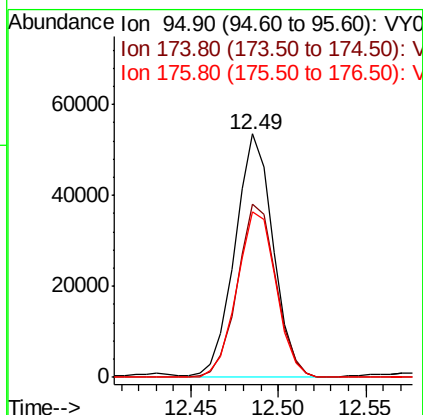
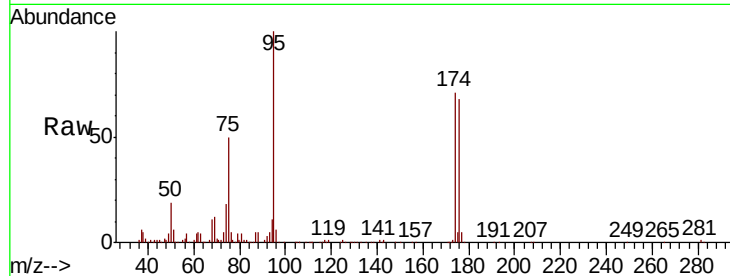




#62
4-Bromofluorobenzene
Concen: 39.687 ug/l
RT: 12.49 min Scan# 1763
Delta R.T. -0.01 min
Lab File: VY002055.D
Acq: 24 Mar 2020 16:55

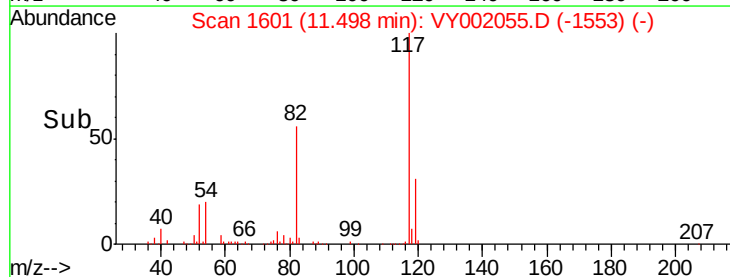
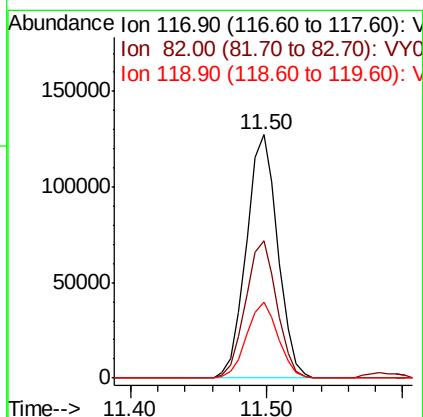
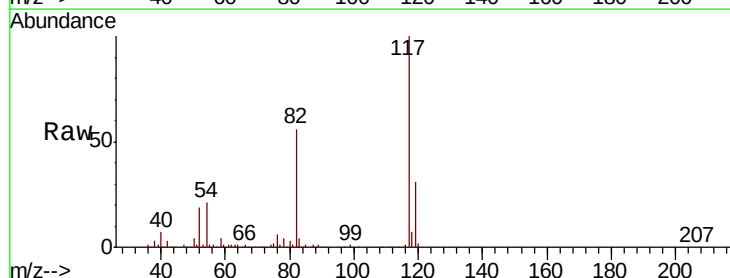
Instrument :
MSVOA_Y
ClientSampleId :
GHD1-SB-01-8-9RE

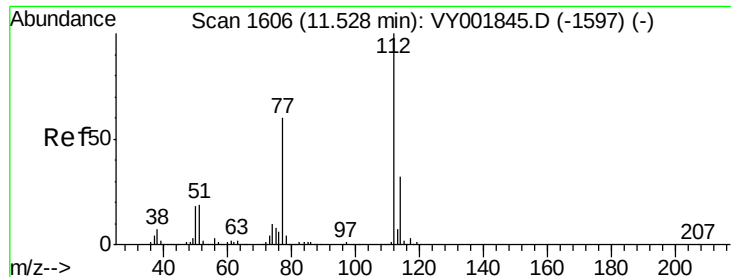
Tot Ion: 95 Resp: 80642
Ion Ratio Lower Upper
95 100
174 72.6 0.0 145.0
176 70.2 0.0 137.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.50 min Scan# 1601
Delta R.T. -0.01 min
Lab File: VY002055.D
Acq: 24 Mar 2020 16:55

Tgt Ion: 117 Resp: 205633
Ion Ratio Lower Upper
117 100
82 56.2 44.5 66.7
119 31.3 25.7 38.5

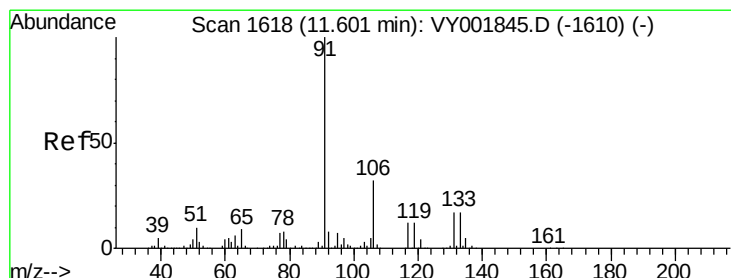
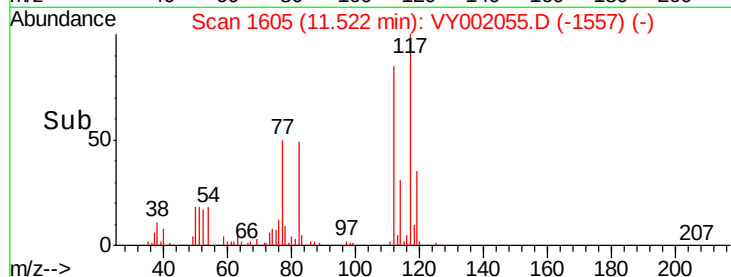
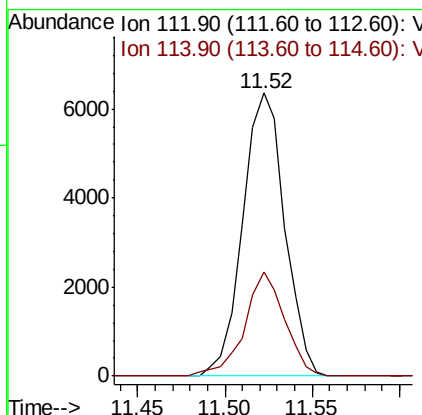
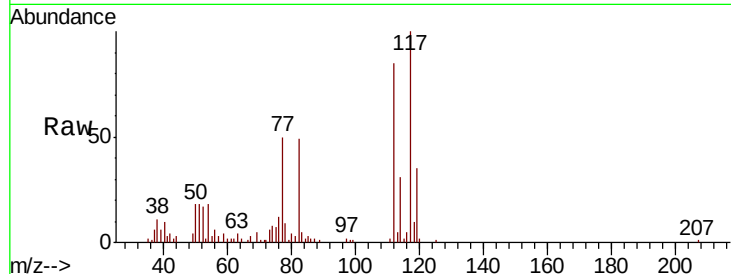




#65
Chlorobenzene
Concen: 2.583 ug/l
RT: 11.52 min Scan# 1605
Delta R.T. -0.01 min
Lab File: VY002055.D
Acq: 24 Mar 2020 16:55

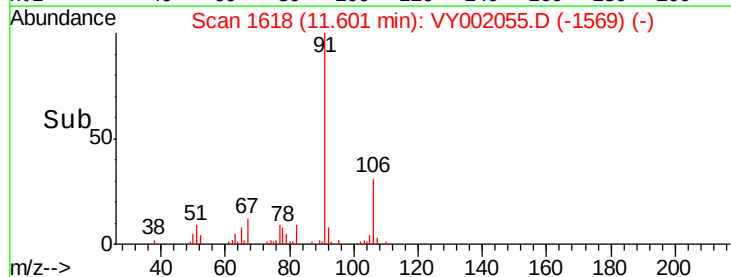
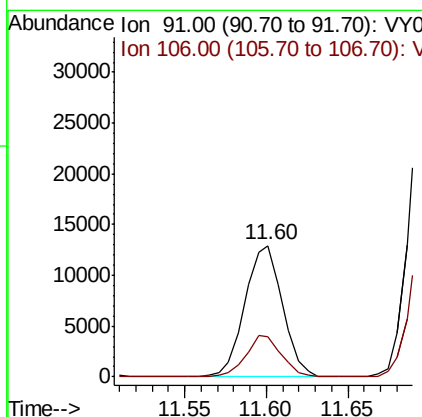
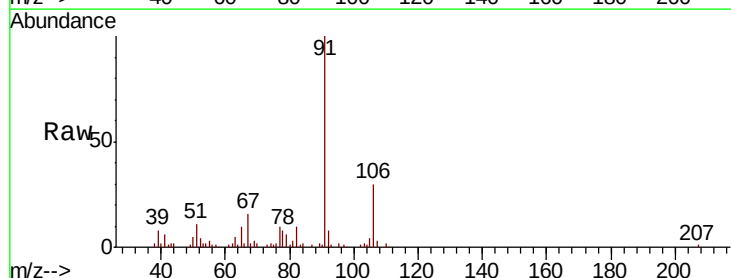
Instrument :
MSVOA_Y
ClientSampleId :
GHD1-SB-01-8-9RE

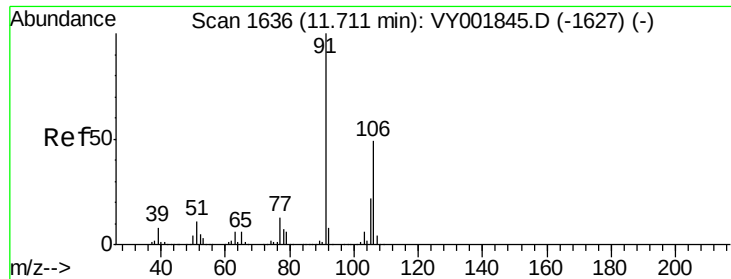
Tot Ion:112 Resp: 10585
Ion Ratio Lower Upper
112 100
114 36.9 25.9 38.9



#67
Ethyl Benzene
Concen: 2.703 ug/l
RT: 11.60 min Scan# 1618
Delta R.T. 0.00 min
Lab File: VY002055.D
Acq: 24 Mar 2020 16:55

Tgt Ion: 91 Resp: 20657
Ion Ratio Lower Upper
91 100
106 30.4 25.4 38.2

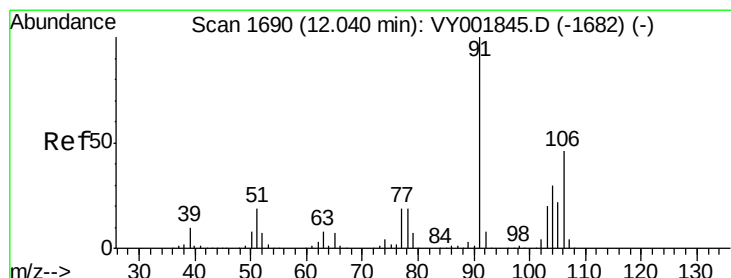
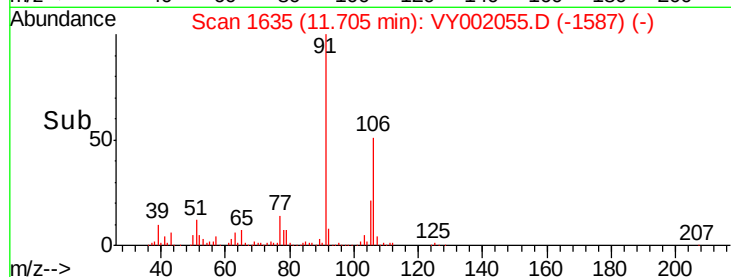
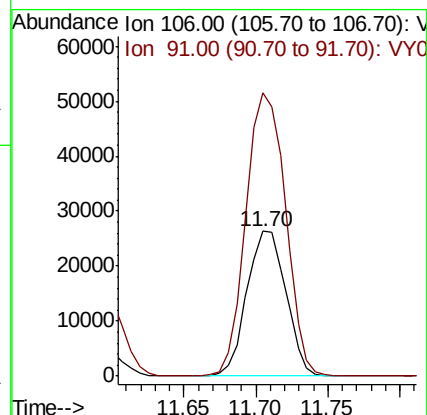
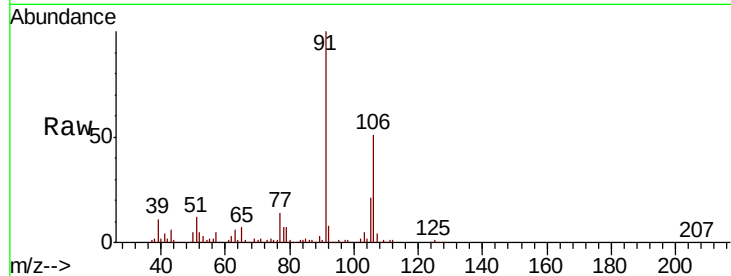




#68
m/p-Xylenes
Concen: 17.476 ug/l
RT: 11.70 min Scan# 1635
Delta R.T. -0.01 min
Lab File: VY002055.D
Acq: 24 Mar 2020 16:55

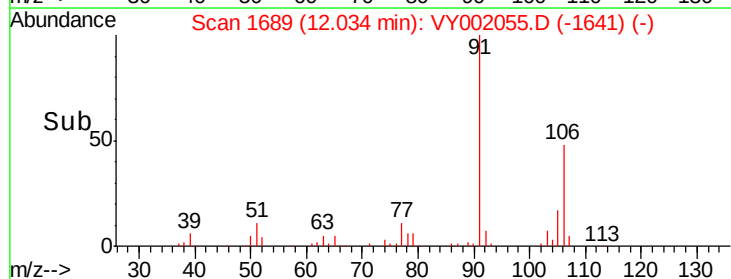
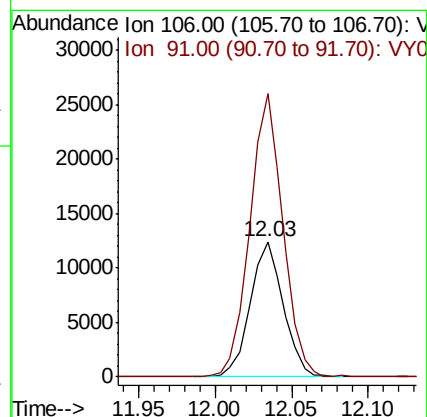
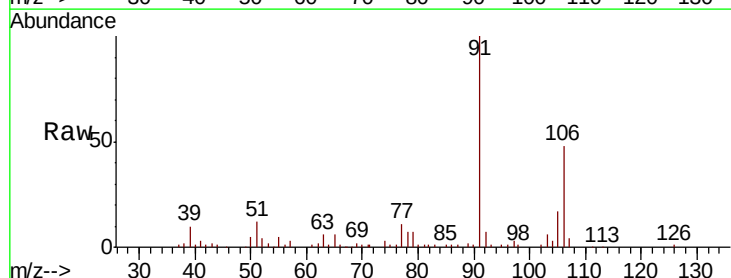
Instrument :
MSVOA_Y
ClientSampleId :
GHD1-SB-01-8-9RE

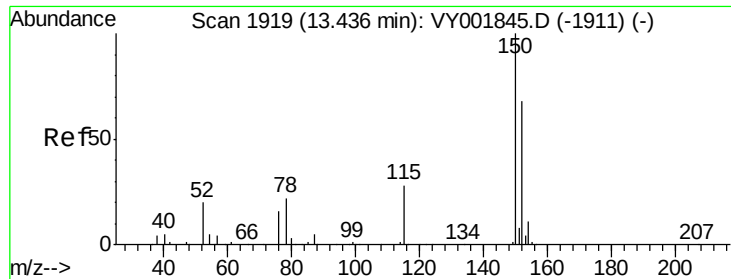
Tot Ion:106 Resp: 49372
Ion Ratio Lower Upper
106 100
91 199.3 161.3 241.9



#69
o-Xylene
Concen: 7.006 ug/l
RT: 12.03 min Scan# 1689
Delta R.T. -0.01 min
Lab File: VY002055.D
Acq: 24 Mar 2020 16:55

Tgt Ion:106 Resp: 18655
Ion Ratio Lower Upper
106 100
91 208.9 106.8 320.4



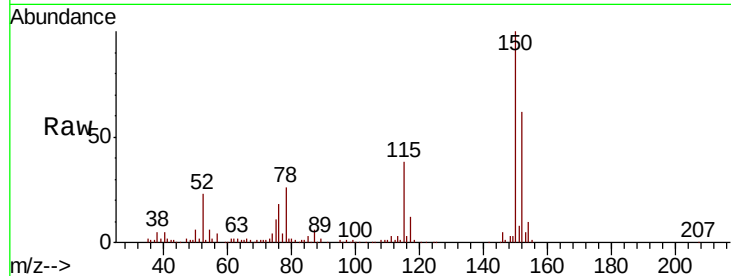


#72

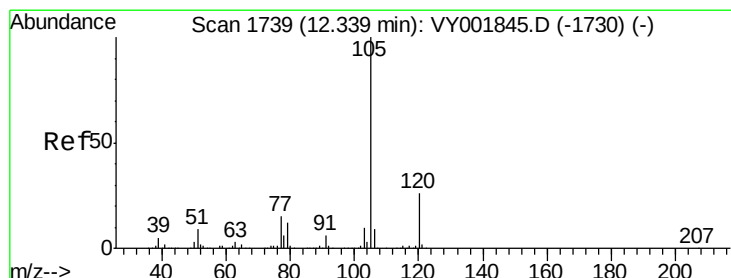
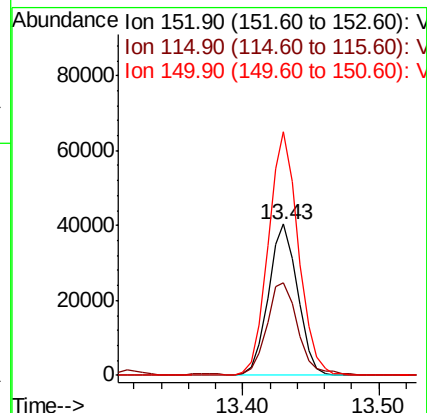
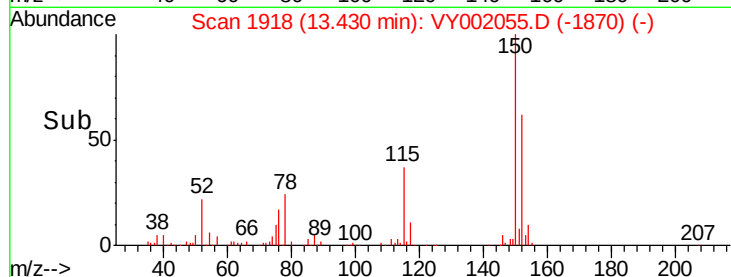
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.43 min Scan# 1918
Delta R.T. -0.01 min
Lab File: VY002055.D
Acq: 24 Mar 2020 16:55

Instrument :
MSVOA_Y
ClientSampleId :
GHD1-SB-01-8-9RE

Tot Ion:152 Resp: 60906
Ion Ratio Lower Upper
152 100
115 65.5 29.9 89.7
150 165.0 0.0 340.6



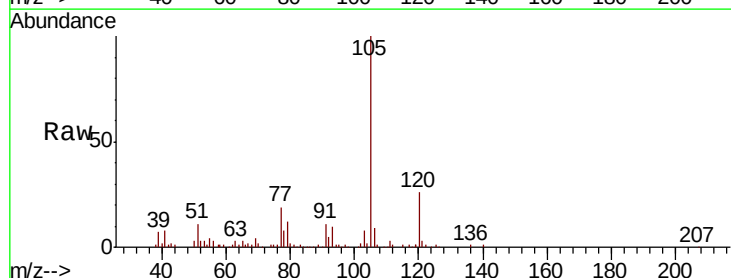
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



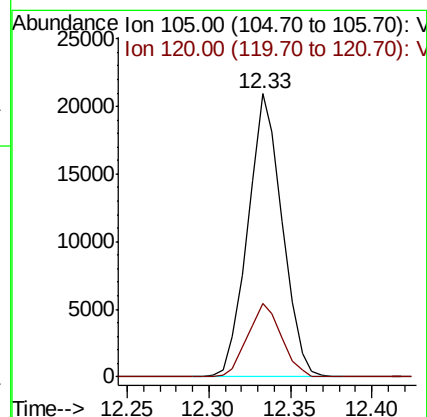
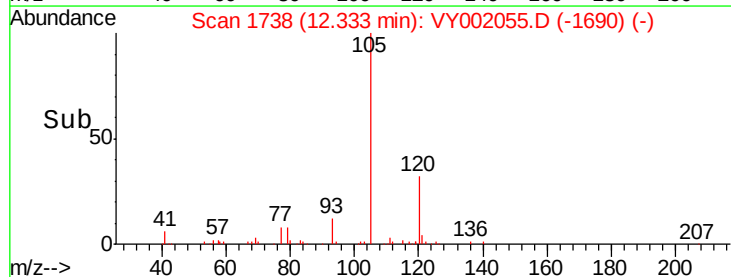
#73

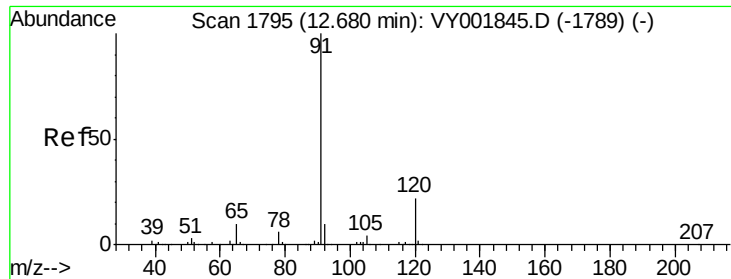
Isopropylbenzene
Concen: 6.618 ug/l
RT: 12.33 min Scan# 1738
Delta R.T. -0.01 min
Lab File: VY002055.D
Acq: 24 Mar 2020 16:55

Tgt Ion:105 Resp: 30772
Ion Ratio Lower Upper
105 100
120 25.4 13.1 39.3



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V





#78

n-propylbenzene

Concen: 5.397 ug/l

RT: 12.67 min Scan# 1794

Delta R.T. -0.01 min

Lab File: VY002055.D

Acq: 24 Mar 2020 16:55

Instrument :

MSVOA_Y

ClientSampleId :

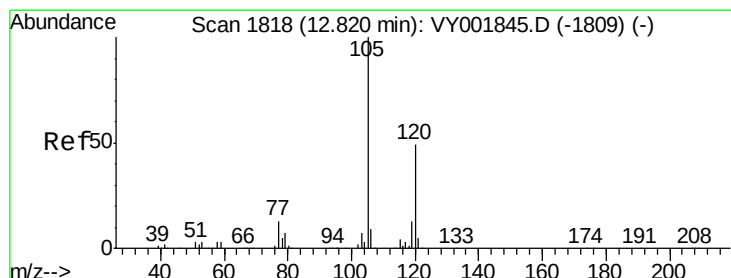
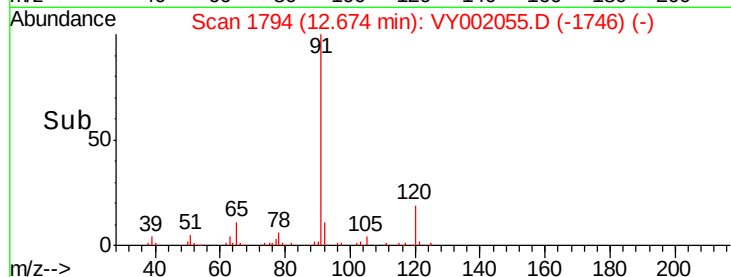
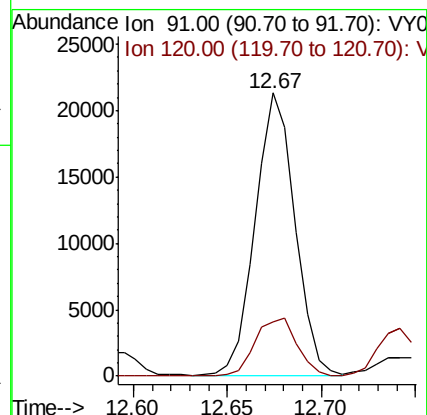
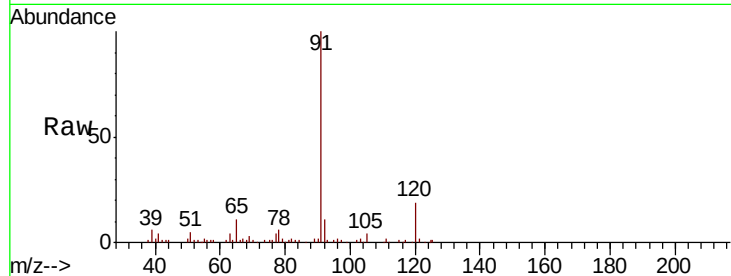
GHD1-SB-01-8-9RE

Tot Ion: 91 Resp: 30960

Ion Ratio Lower Upper

91 100

120 21.8 11.0 33.0



#80

1,3,5-Trimethylbenzene

Concen: 6.195 ug/l

RT: 12.81 min Scan# 1817

Delta R.T. -0.01 min

Lab File: VY002055.D

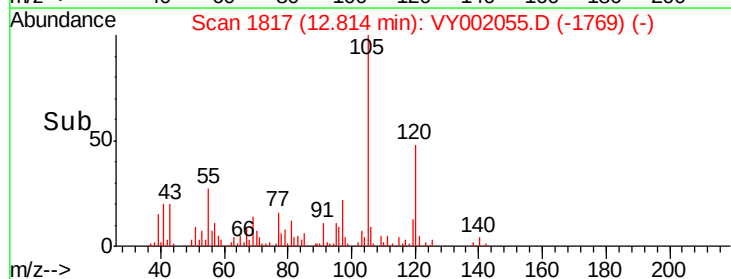
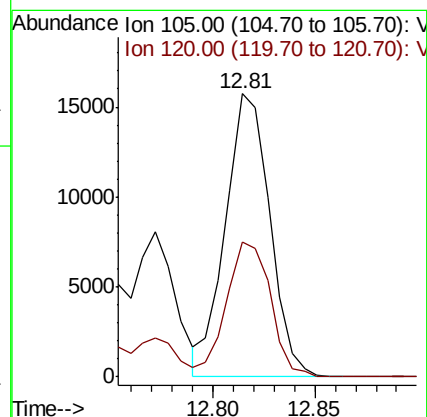
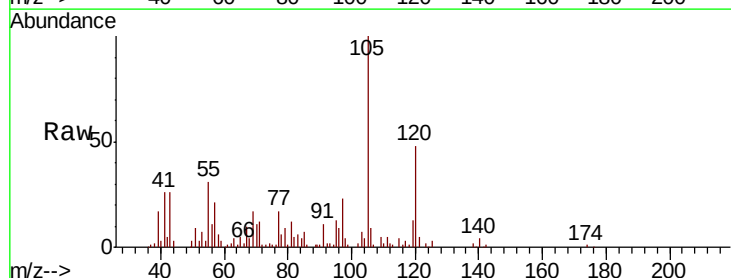
Acq: 24 Mar 2020 16:55

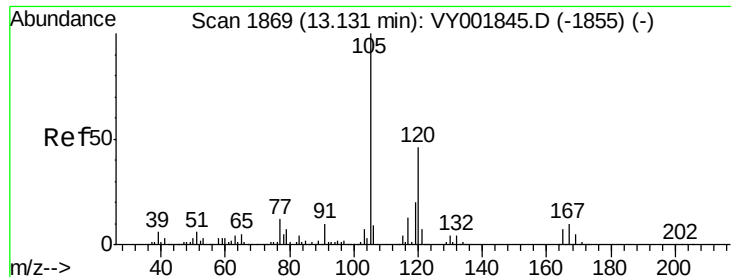
Tgt Ion: 105 Resp: 23712

Ion Ratio Lower Upper

105 100

120 47.3 24.4 73.2

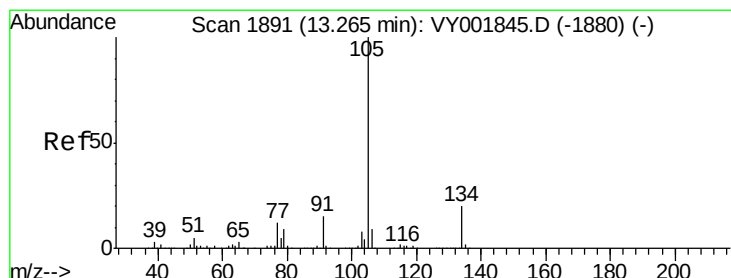
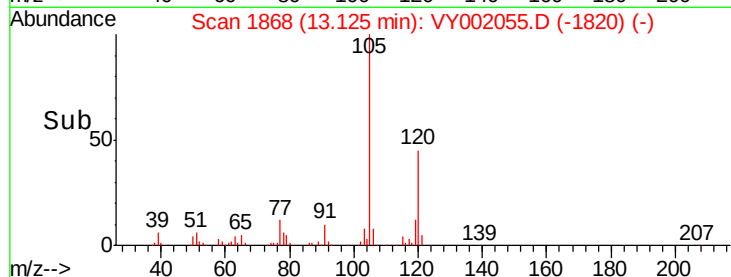
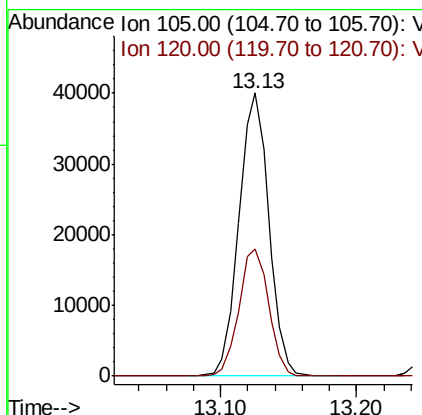
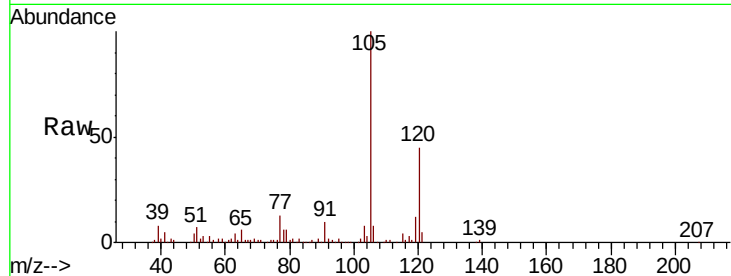




#84
 1,2,4-Trimethylbenzene
 Concen: 16.174 ug/l
 RT: 13.13 min Scan# 1868
 Delta R.T. -0.01 min
 Lab File: VY002055.D
 Acq: 24 Mar 2020 16:55

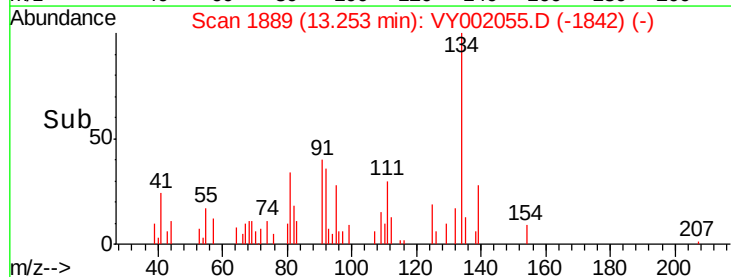
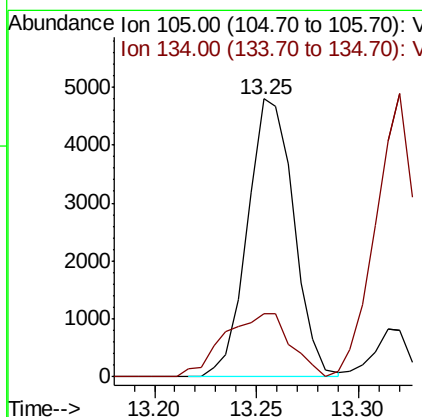
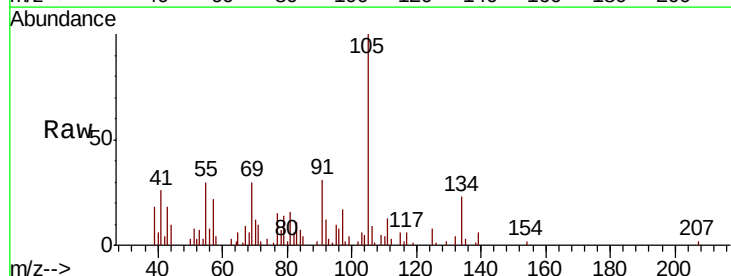
Instrument :
 MSVOA_Y
 ClientSampleId :
 GHD1-SB-01-8-9RE

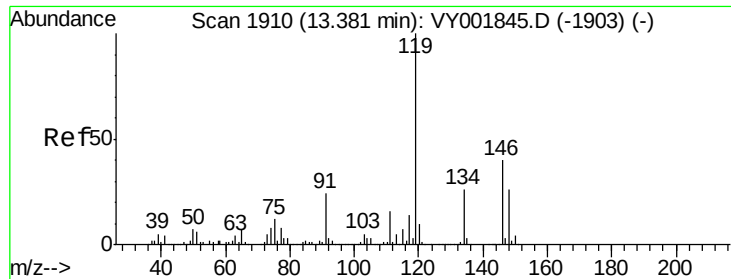
Tot Ion:105 Resp: 61437
 Ion Ratio Lower Upper
 105 100
 120 44.6 22.6 67.7



#85
 sec-Butylbenzene
 Concen: 1.613 ug/l
 RT: 13.25 min Scan# 1889
 Delta R.T. -0.01 min
 Lab File: VY002055.D
 Acq: 24 Mar 2020 16:55

Tgt Ion:105 Resp: 7559
 Ion Ratio Lower Upper
 105 100
 134 32.9 9.7 29.1#

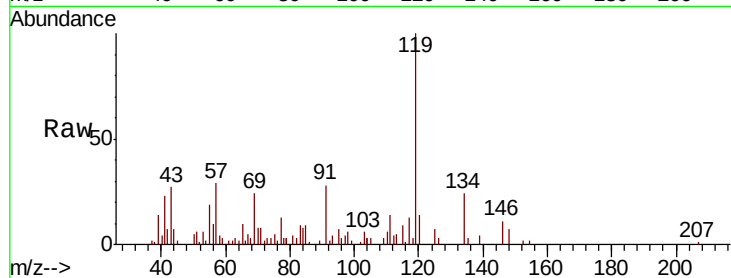




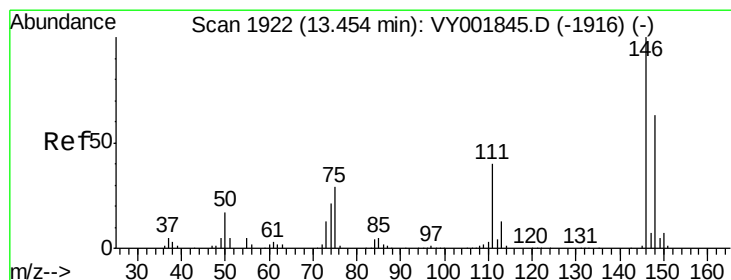
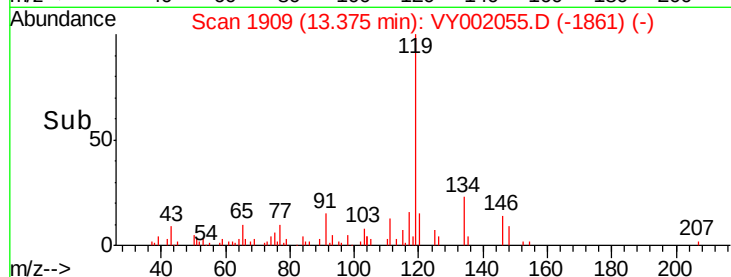
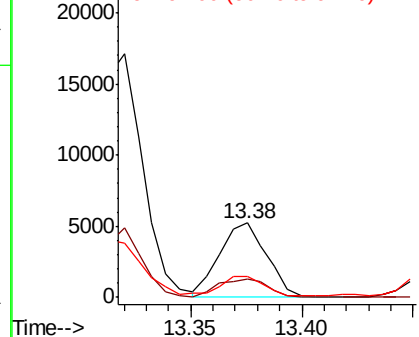
#86
 p-Isopropyltoluene
 Concen: 1.915 ug/l
 RT: 13.38 min Scan# 1909
 Delta R.T. -0.01 min
 Lab File: VY002055.D
 Acq: 24 Mar 2020 16:55

Instrument :
 MSVOA_Y
 ClientSampleId :
 GHD1-SB-01-8-9RE

Tot Ion:119 Resp: 7742
 Ion Ratio Lower Upper
 119 100
 134 26.2 13.1 39.3
 91 24.3 11.9 35.7

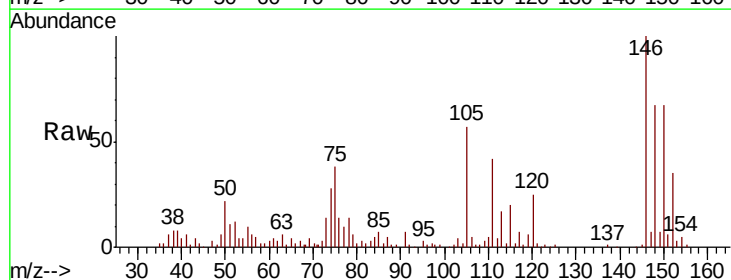


Abundance Ion 119.00 (118.70 to 119.70): V
 Ion 134.00 (133.70 to 134.70): V
 Ion 91.00 (90.70 to 91.70): V

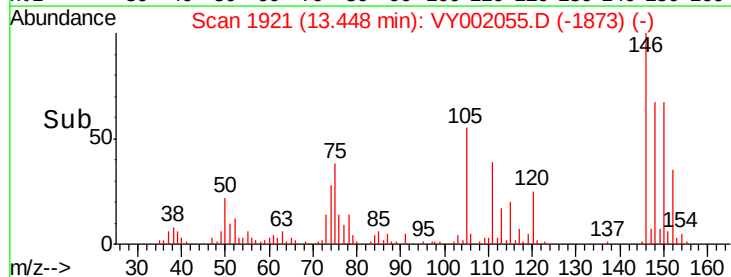
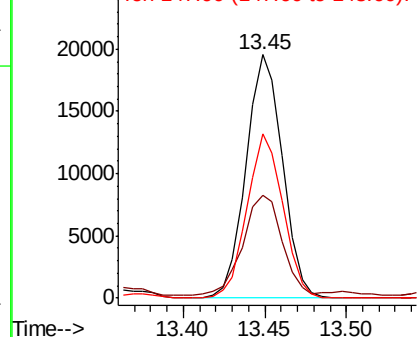


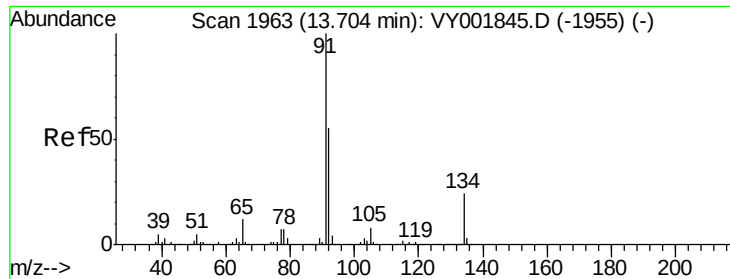
#88
 1,4-Dichlorobenzene
 Concen: 15.577 ug/l
 RT: 13.45 min Scan# 1921
 Delta R.T. -0.01 min
 Lab File: VY002055.D
 Acq: 24 Mar 2020 16:55

Tgt Ion:146 Resp: 30504
 Ion Ratio Lower Upper
 146 100
 111 44.6 20.0 60.0
 148 66.5 31.5 94.5



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

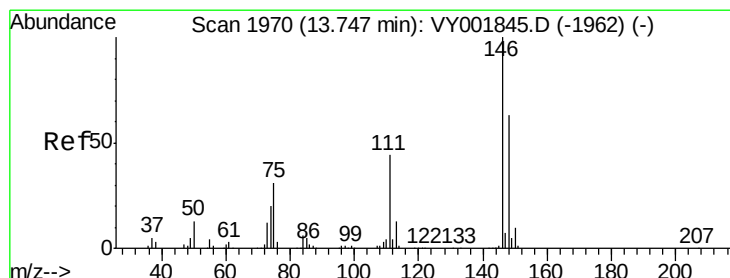
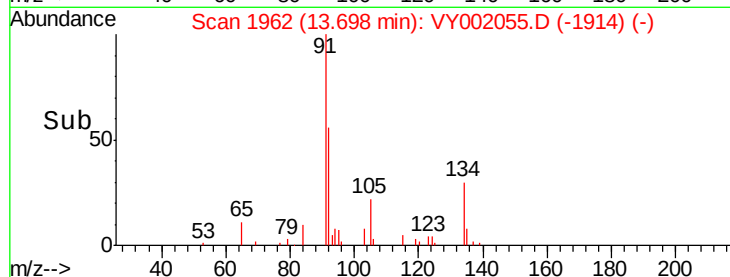
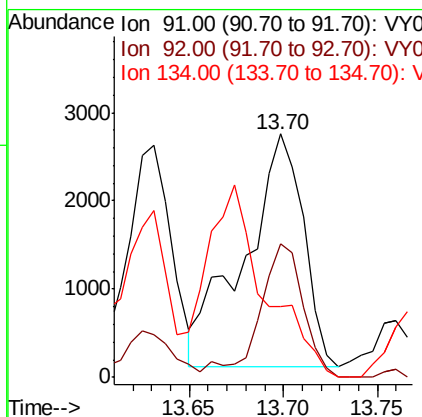
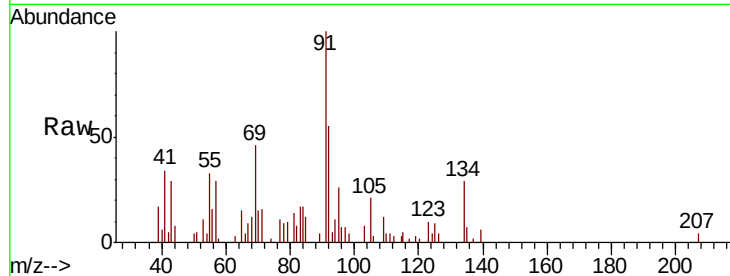




#89
n-Butylbenzene
Concen: 1.375 ug/l
RT: 13.70 min Scan# 1962
Delta R.T. -0.01 min
Lab File: VY002055.D
Acq: 24 Mar 2020 16:55

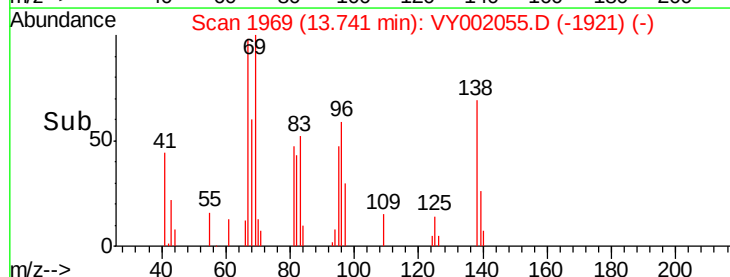
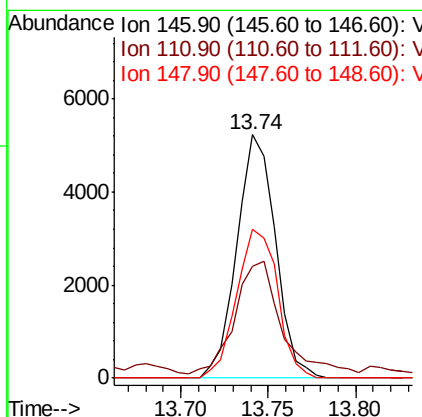
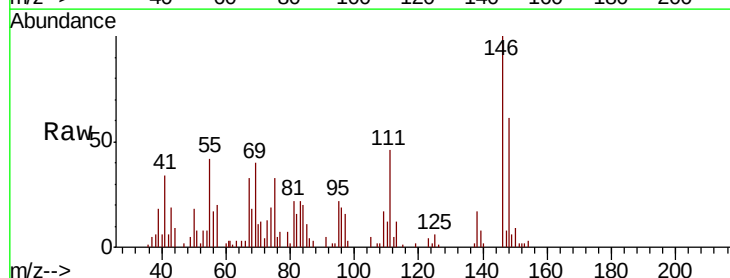
Instrument :
MSVOA_Y
ClientSampleId :
GHD1-SB-01-8-9RE

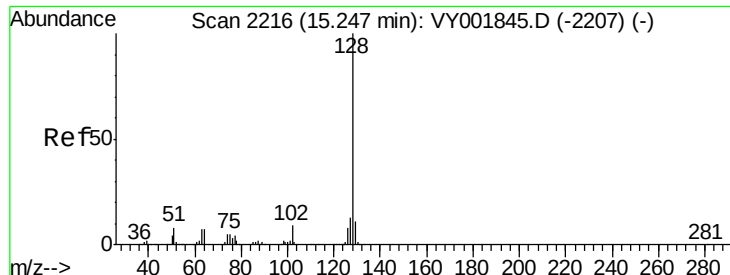
Tot Ion: 91 Resp: 5765
Ion Ratio Lower Upper
91 100
92 42.1 27.5 82.4
134 0.0 12.5 37.5#



#91
1,2-Dichlorobenzene
Concen: 4.579 ug/l
RT: 13.74 min Scan# 1969
Delta R.T. -0.01 min
Lab File: VY002055.D
Acq: 24 Mar 2020 16:55

Tgt Ion: 146 Resp: 8030
Ion Ratio Lower Upper
146 100
111 54.4 21.5 64.5
148 65.0 32.0 96.0





#95
 Naphthalene
 Concen: 50.717 ug/l
 RT: 15.24 min Scan# 2215
 Delta R.T. -0.01 min
 Lab File: VY002055.D
 Acq: 24 Mar 2020 16:55

Instrument :
 MSVOA_Y
 ClientSampleId :
 GHD1-SB-01-8-9RE

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.1	10.1	15.1
129	11.1	8.6	13.0

