

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY071020\
 Data File : VY003170.D
 Acq On : 10 Jul 2020 17:54
 Operator : SY/MD
 Sample : L3255-07RE
 Misc : 6.80G/5ML/MSVOA Y/SOIL
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 RBR-07RE

Quant Time: Jul 11 06:02:53 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\82Y071020S.M
 Quant Title : SW846 8260
 QLast Update : Fri Jul 10 13:18:03 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.80	168	388816	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.69	114	582734	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.49	117	362680	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.42	152	86383	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.14	65	185683	56.58	ug/l	0.00
Spiked Amount			Recovery	=	113.16%	
35) Dibromofluoromethane	7.72	113	185644	55.36	ug/l	0.00
Spiked Amount			Recovery	=	110.72%	
50) Toluene-d8	10.18	98	594319	47.67	ug/l	0.00
Spiked Amount			Recovery	=	95.34%	
62) 4-Bromofluorobenzene	12.48	95	117071	25.99	ug/l	0.00
Spiked Amount			Recovery	=	51.98%	

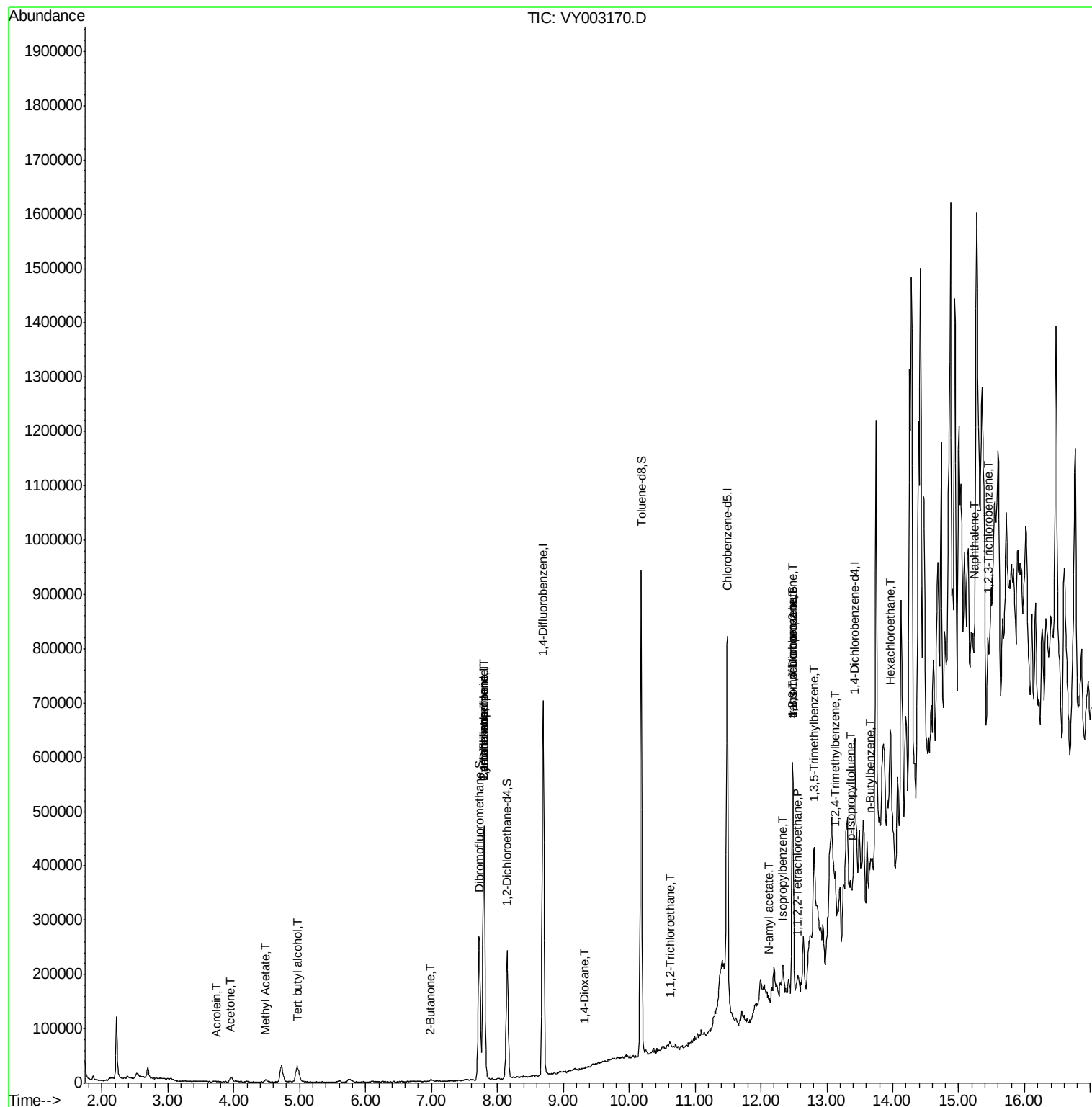
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.96	59	61172	172.383	ug/l	99
13) Acrolein	3.74	56	410	1.331	ug/l #	15
16) Acetone	3.95	43	15877	21.659	ug/l #	79
18) Methyl Acetate	4.48	43	7771	3.817	ug/l	95
25) 2-Butanone	6.99	43	6224	5.171	ug/l	98
31) Cyclohexane	7.79	56	7532	1.262	ug/l #	1
36) 1,1-Dichloropropene	7.80	75	26151	4.951	ug/l #	51
38) Carbon Tetrachloride	7.79	117	34494	6.326	ug/l #	17
49) 1,4-Dioxane	9.31	88	238	8.532	ug/l #	28
55) 1,1,2-Trichloroethane	10.61	97	4461	1.432	ug/l #	18
73) Isopropylbenzene	12.33	105	11556	2.099	ug/l	98
74) N-amyl acetate	12.13	43	2163	1.400	ug/l #	41
75) 1,1,2,2-Tetrachloroethane	12.54	83	1634	1.537	ug/l #	29
76) 1,2,3-Trichloropropane	12.48	75	58165	76.069	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.81	105	8222	1.792	ug/l	93
81) trans-1,4-Dichloro-2-buten	12.48	75	58165	148.044	ug/l #	15
84) 1,2,4-Trimethylbenzene	13.13	105	7714	1.671	ug/l	98
86) p-Isopropyltoluene	13.37	119	13269	2.554	ug/l #	85
89) n-Butylbenzene	13.67	91	10204	2.088	ug/l #	1
90) Hexachloroethane	13.97	117	1692	1.788	ug/l #	28
95) Naphthalene	15.23	128	3356	1.226	ug/l #	1
96) 1,2,3-Trichlorobenzene	15.44	180	6145	4.692	ug/l #	24

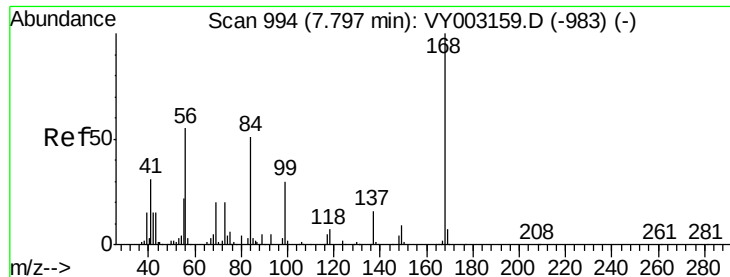
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Jul 10 13:18:03 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.80 min Scan# 994

Delta R.T. 0.00 min

Lab File: VY003170.D

Acq: 10 Jul 2020 17:54

Instrument :

MSVOA_Y

ClientSampleId :

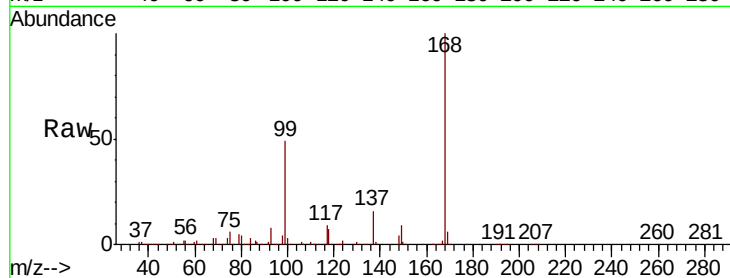
RBR-07RE

Tot Ion:168 Resp: 388816

Ion Ratio Lower Upper

168 100

99 48.8 37.3 55.9



Abundance Ion 167.90 (167.60 to 168.60): VY003170.D (-945) (-)

Ion 98.90 (98.60 to 99.60): VY003170.D (-945) (-)

7.80

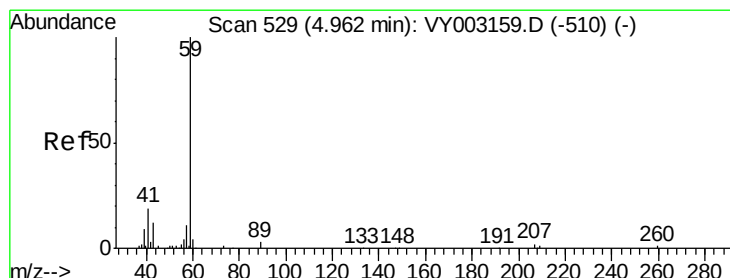
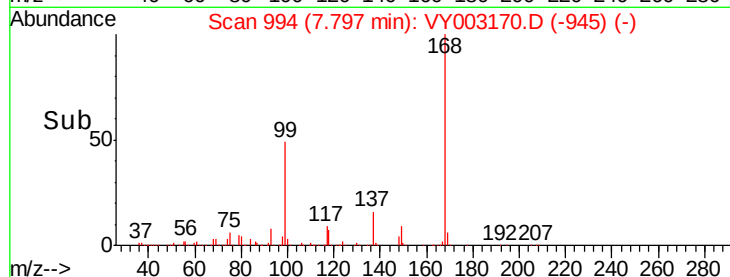
150000

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: 172.383 ug/l

RT: 4.96 min Scan# 529

Delta R.T. 0.00 min

Lab File: VY003170.D

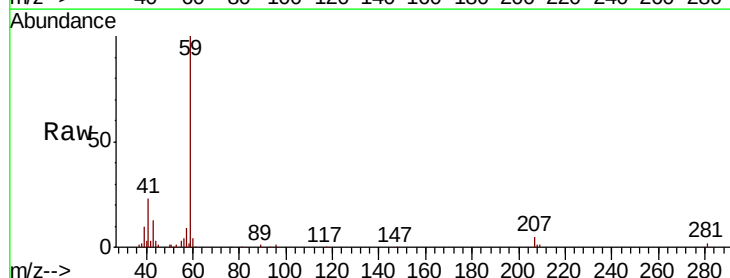
Acq: 10 Jul 2020 17:54

Tgt Ion: 59 Resp: 61172

Ion Ratio Lower Upper

59 100

57 10.2 8.4 12.6



Abundance Ion 59.00 (58.70 to 59.70): VY003170.D (-480) (-)

Ion 57.00 (56.70 to 57.70): VY003170.D (-480) (-)

4.96

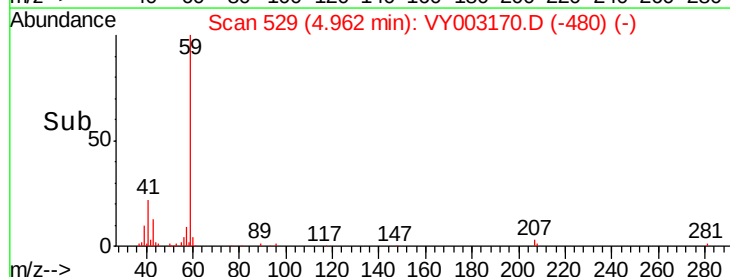
15000

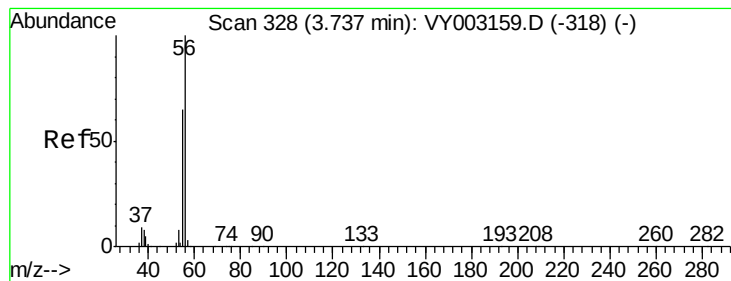
10000

5000

0

Time-->





#13

Acrolein

Concen: 1.331 ug/l

RT: 3.74 min Scan# 328

Delta R.T. 0.00 min

Lab File: VY003170.D

Acq: 10 Jul 2020 17:54

Instrument :

MSVOA_Y

ClientSampleId :

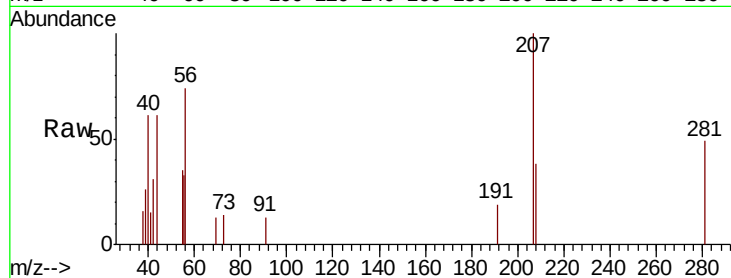
RBR-07RE

Tot Ion: 56 Resp: 410

Ion Ratio Lower Upper

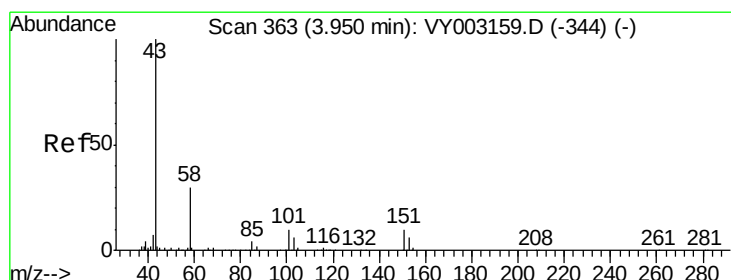
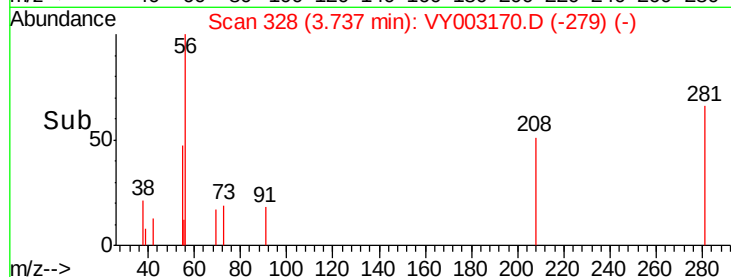
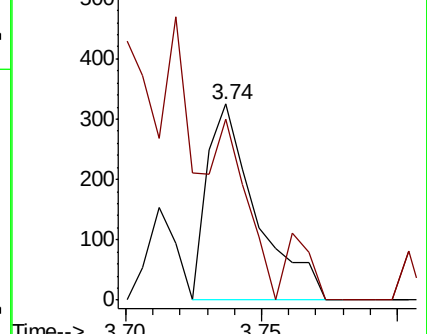
56 100

55 0.0 56.0 84.0#



Abundance Ion 56.00 (55.70 to 56.70): VY0

Ion 55.00 (54.70 to 55.70): VY0



#16

Acetone

Concen: 21.659 ug/l

RT: 3.95 min Scan# 363

Delta R.T. 0.00 min

Lab File: VY003170.D

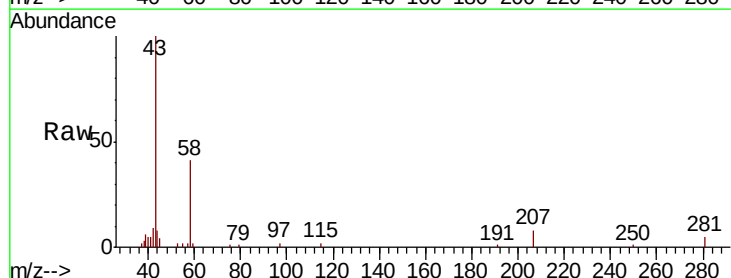
Acq: 10 Jul 2020 17:54

Tgt Ion: 43 Resp: 15877

Ion Ratio Lower Upper

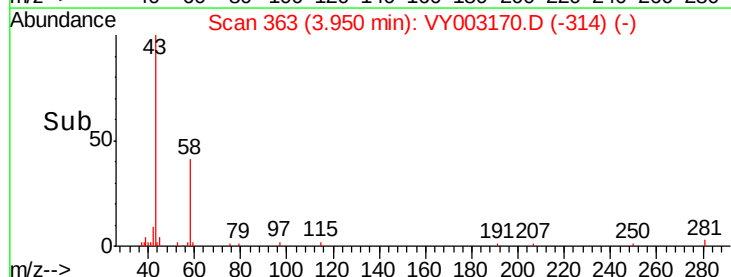
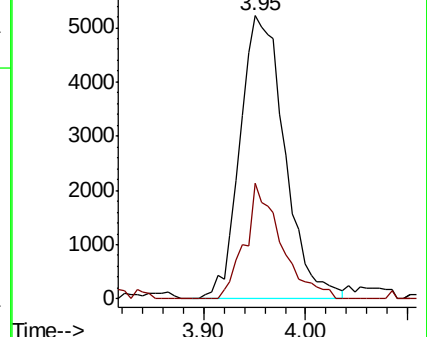
43 100

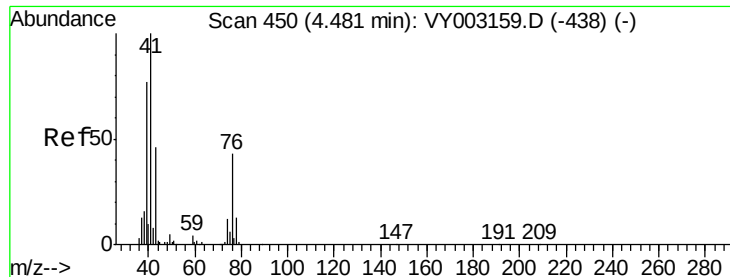
58 40.9 23.8 35.6#



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 58.00 (57.70 to 58.70): VY0

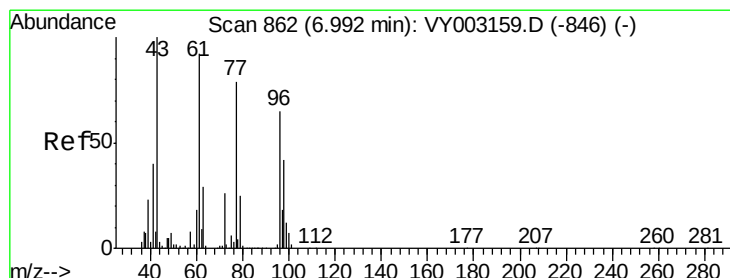
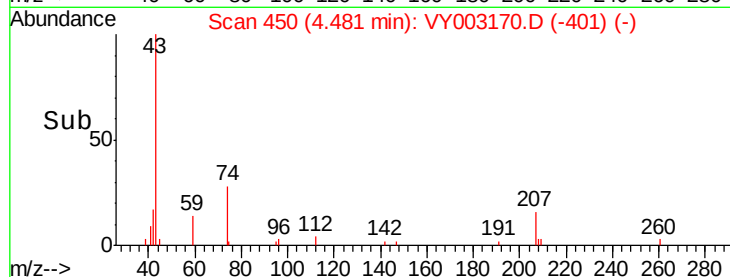
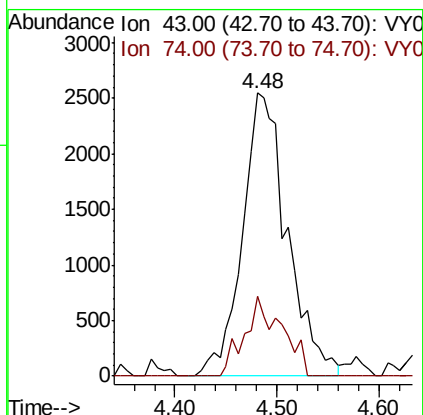
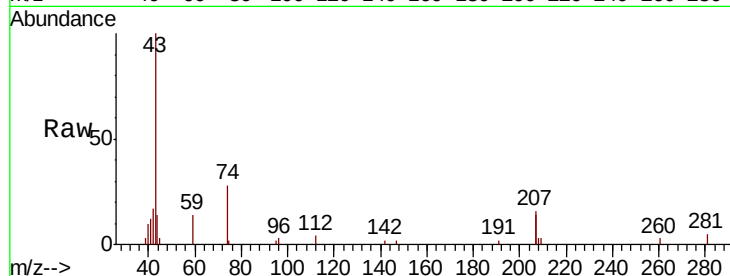




#18
Methvl Acetate
Concen: 3.817 ug/l
RT: 4.48 min Scan# 450
Delta R.T. 0.00 min
Lab File: VY003170.D
Acq: 10 Jul 2020 17:54

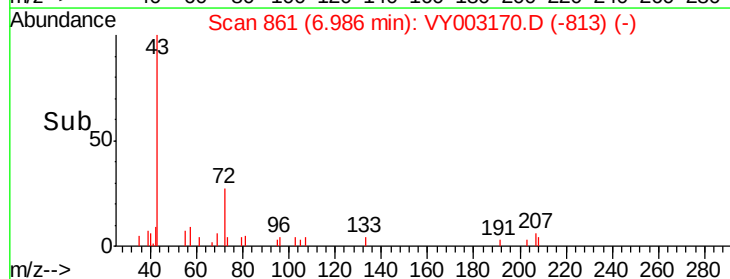
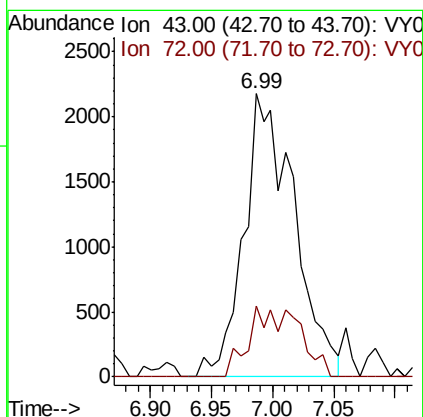
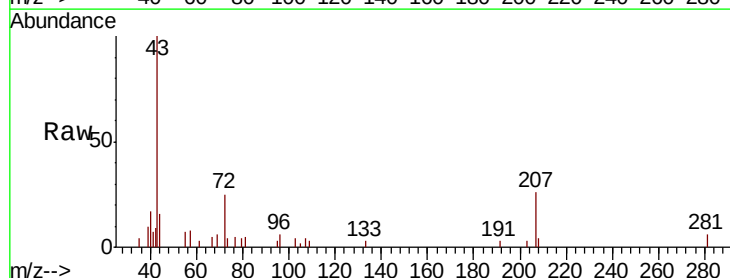
Instrument :
MSVOA_Y
ClientSampleId :
RBR-07RE

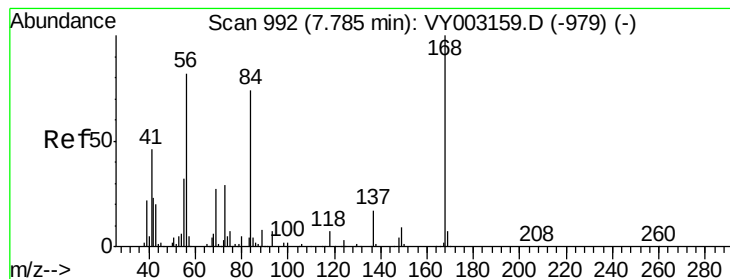
Tot Ion: 43 Resp: 7771
Ion Ratio Lower Upper
43 100
74 23.4 20.8 31.2



#25
2-Butanone
Concen: 5.171 ug/l
RT: 6.99 min Scan# 861
Delta R.T. -0.01 min
Lab File: VY003170.D
Acq: 10 Jul 2020 17:54

Tgt Ion: 43 Resp: 6224
Ion Ratio Lower Upper
43 100
72 25.2 20.9 31.3





#31

Cyclohexane

Concen: 1.262 ug/l

RT: 7.79 min Scan# 993

Delta R.T. 0.01 min

Lab File: VY003170.D

Acq: 10 Jul 2020 17:54

Instrument :

MSVOA_Y

ClientSampleId :

RBR-07RE

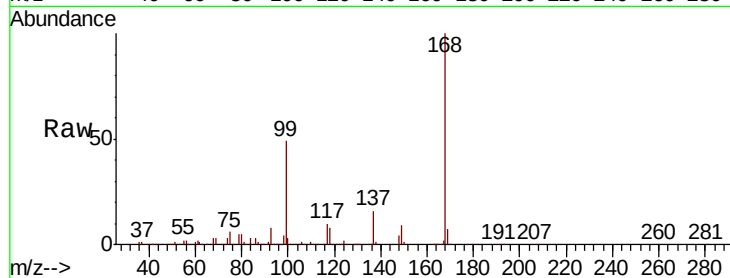
Tot Ion: 56 Resp: 7532

Ion Ratio Lower Upper

56 100

69 170.8 26.7 40.1#

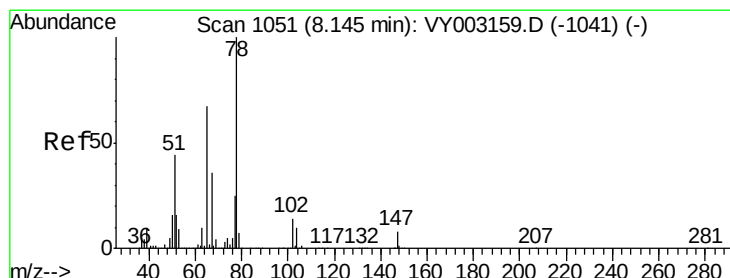
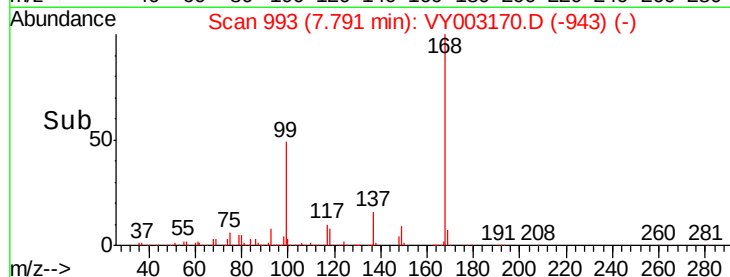
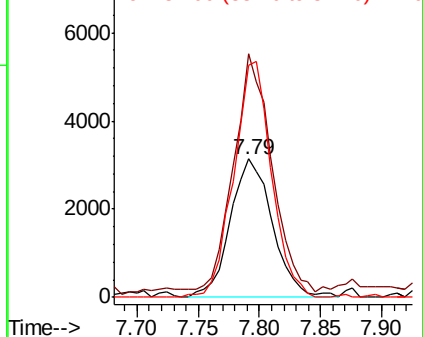
84 166.7 72.3 108.5#



Abundance Ion 56.00 (55.70 to 56.70): VY0

Ion 69.00 (68.70 to 69.70): VY0

Ion 84.00 (83.70 to 84.70): VY0



#33

1,2-Dichloroethane-d4

Concen: 56.581 ug/l

RT: 8.14 min Scan# 1051

Delta R.T. 0.00 min

Lab File: VY003170.D

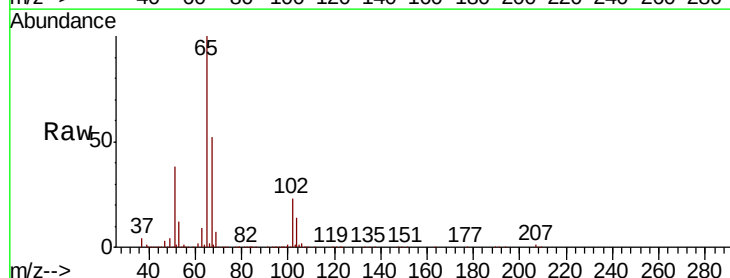
Acq: 10 Jul 2020 17:54

Tgt Ion: 65 Resp: 185683

Ion Ratio Lower Upper

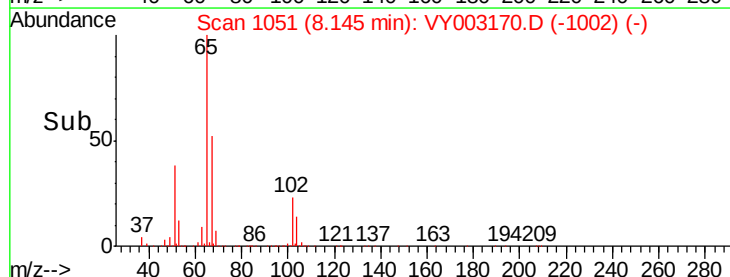
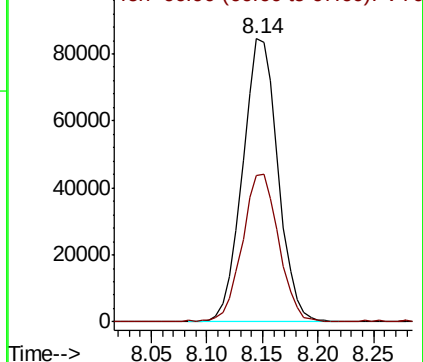
65 100

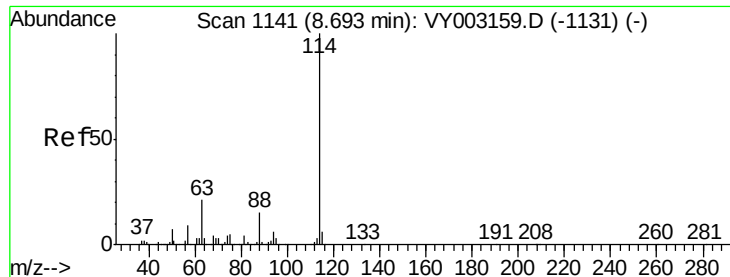
67 53.5 0.0 105.2



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: 8.69 min Scan# 1141

Delta R.T. 0.00 min

Lab File: VY003170.D

Acq: 10 Jul 2020 17:54

Instrument :

MSVOA_Y

ClientSampleId :

RBR-07RE

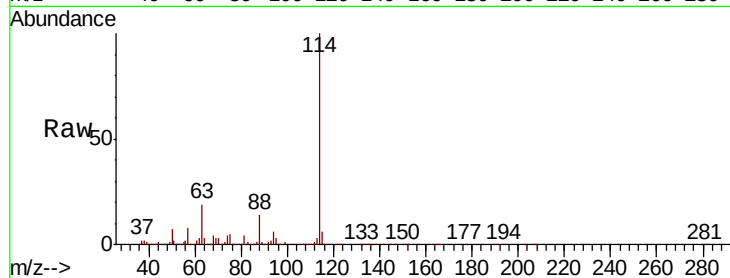
Tot Ion:114 Resp: 582734

Ion Ratio Lower Upper

114 100

63 19.1 0.0 41.2

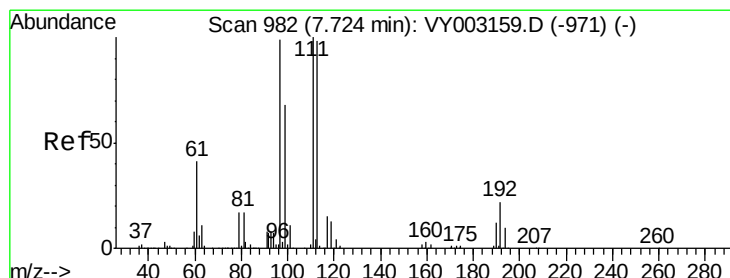
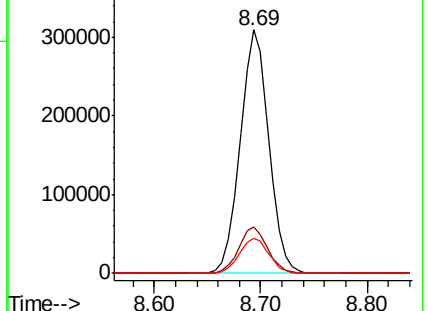
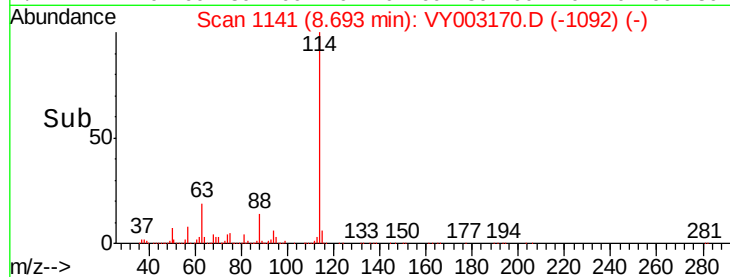
88 14.3 0.0 30.2



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: 55.358 ug/l

RT: 7.72 min Scan# 982

Delta R.T. 0.00 min

Lab File: VY003170.D

Acq: 10 Jul 2020 17:54

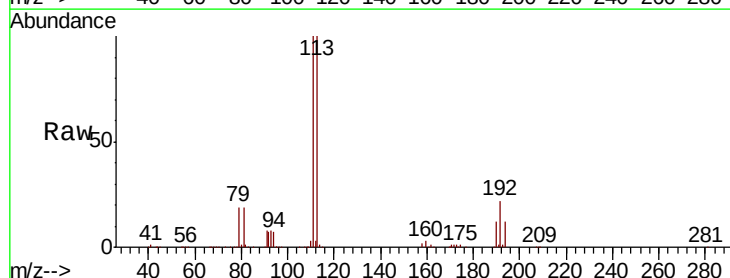
Tgt Ion:113 Resp: 185644

Ion Ratio Lower Upper

113 100

111 101.2 82.1 123.1

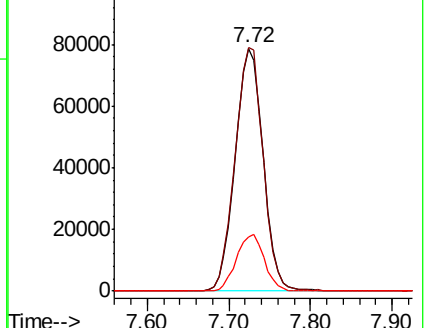
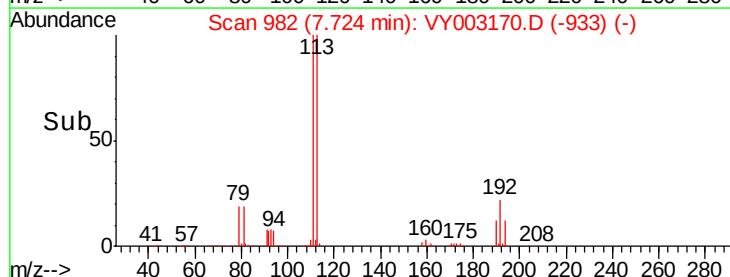
192 23.4 18.8 28.2

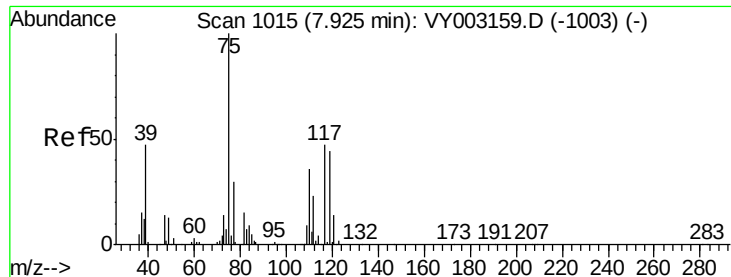


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

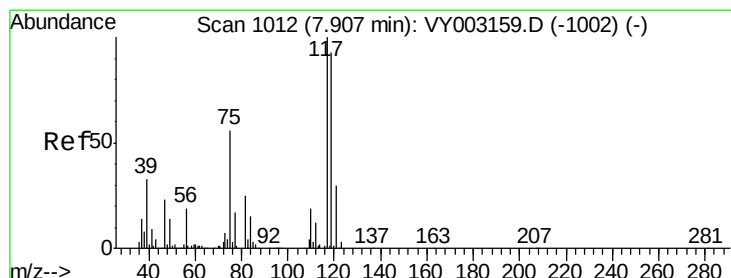
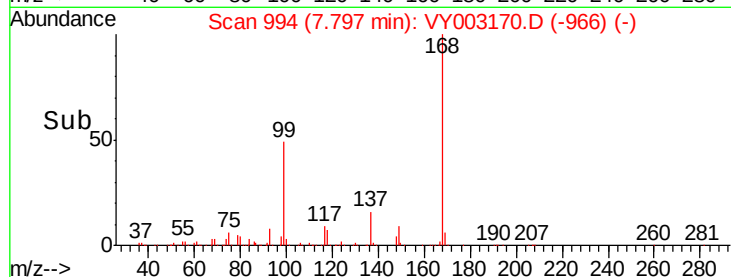
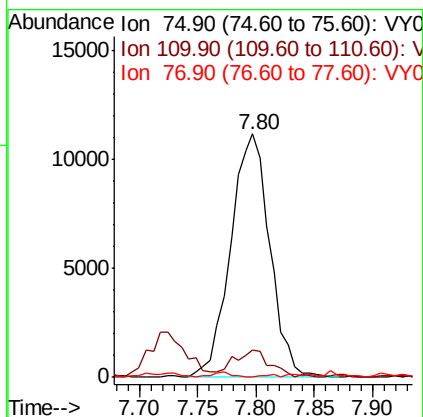
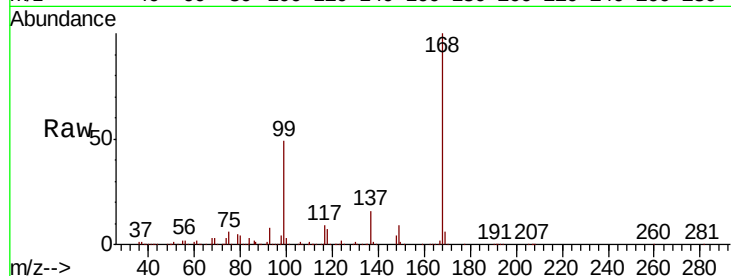




#36
 1,1-Dichloropropene
 Concen: 4.951 ug/l
 RT: 7.80 min Scan# 994
 Delta R.T. -0.13 min
 Lab File: VY003170.D
 Acq: 10 Jul 2020 17:54

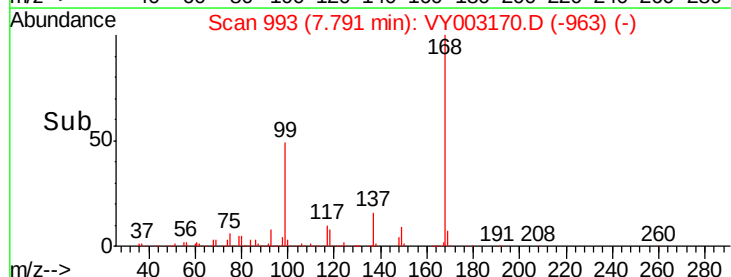
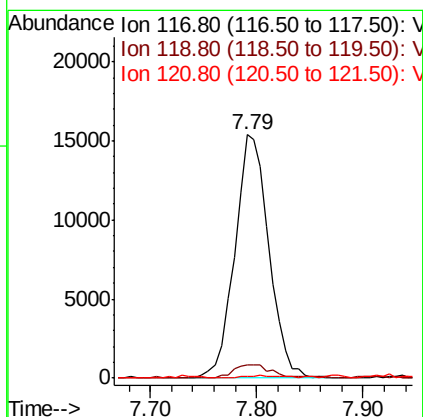
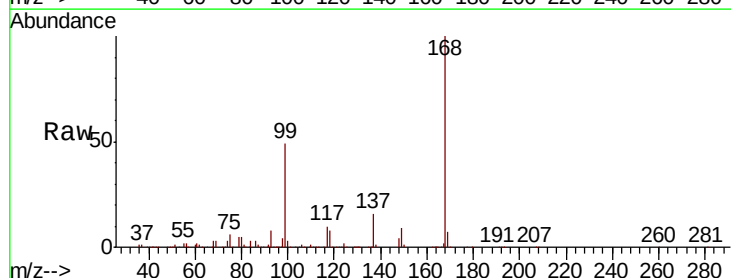
Instrument :
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 RBR-07RE

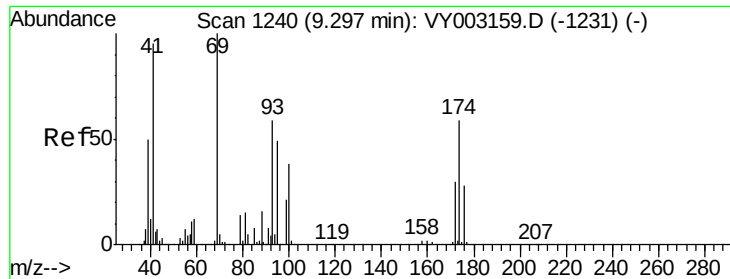
Tot Ion	Ratio	Lower	Upper
75	100		
110	10.6	18.1	54.1#
77	0.4	24.8	37.2#



#38
 Carbon Tetrachloride
 Concen: 6.326 ug/l
 RT: 7.79 min Scan# 993
 Delta R.T. -0.12 min
 Lab File: VY003170.D
 Acq: 10 Jul 2020 17:54

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.2	74.5	111.7#
121	0.0	24.2	36.2#

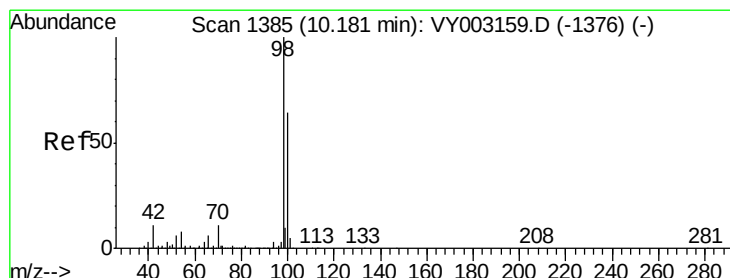
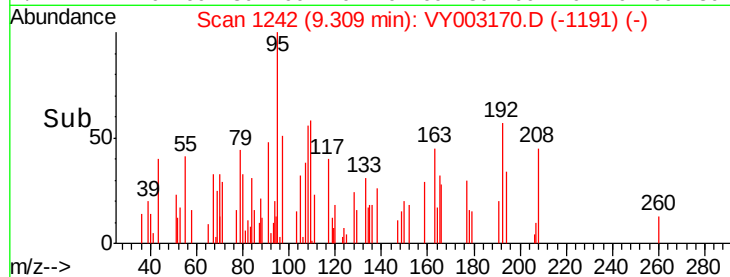
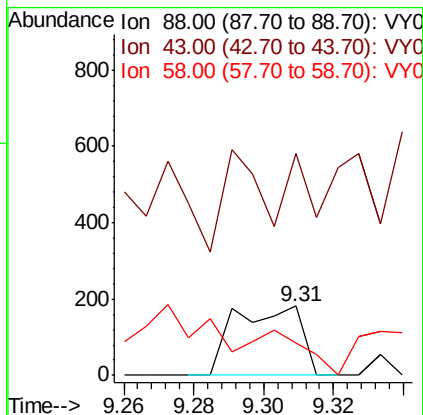
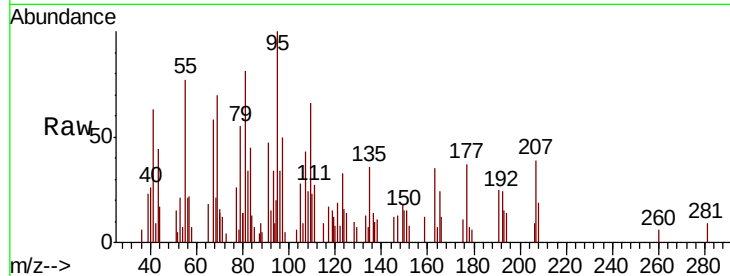




#49
1,4-Dioxane
Concen: 8.532 ug/l
RT: 9.31 min Scan# 1242
Delta R.T. 0.01 min
Lab File: VY003170.D
Acq: 10 Jul 2020 17:54

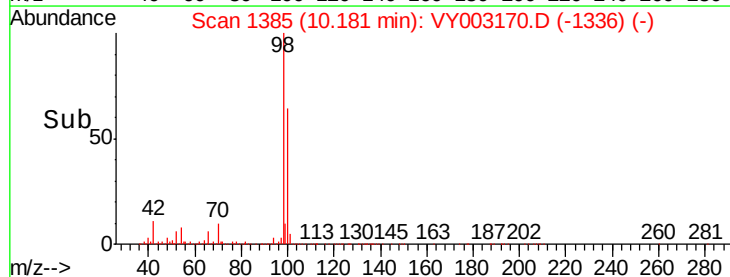
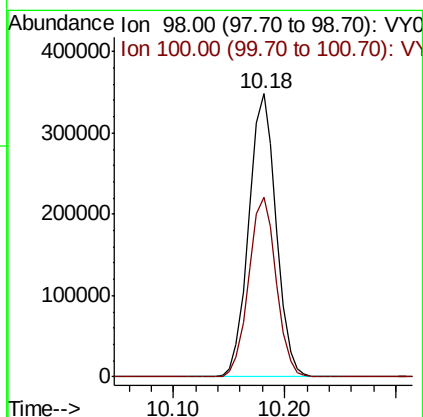
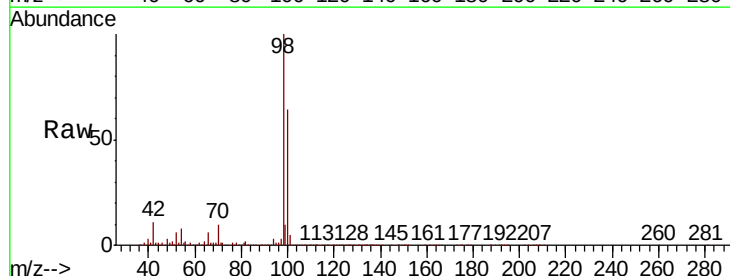
Instrument :
MSVOA_Y
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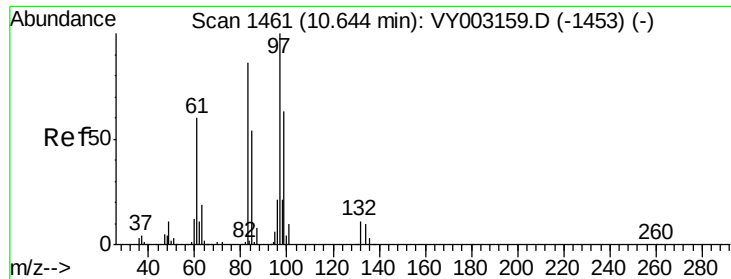
Tot Ion: 88 Resp: 238
Ion Ratio Lower Upper
88 100
43 0.0 25.6 38.4#
58 0.0 47.8 71.6#



#50
Toluene-d8
Concen: 47.669 ug/l
RT: 10.18 min Scan# 1385
Delta R.T. 0.00 min
Lab File: VY003170.D
Acq: 10 Jul 2020 17:54

Tgt Ion: 98 Resp: 594319
Ion Ratio Lower Upper
98 100
100 63.7 50.7 76.1

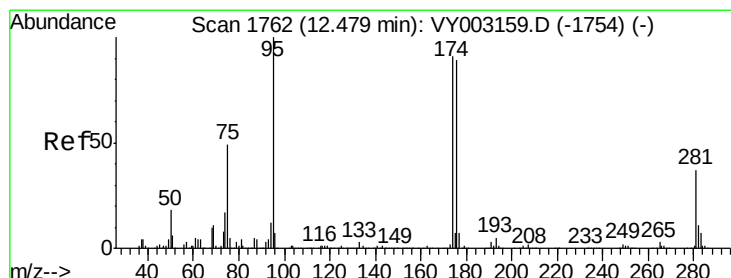
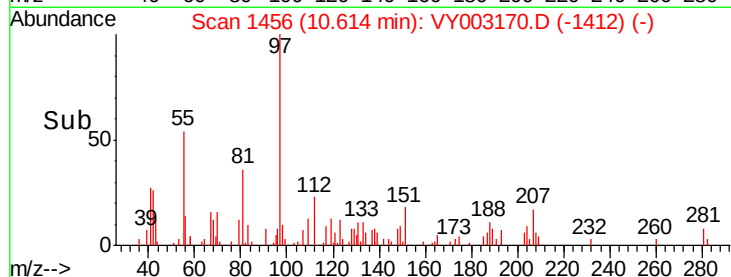
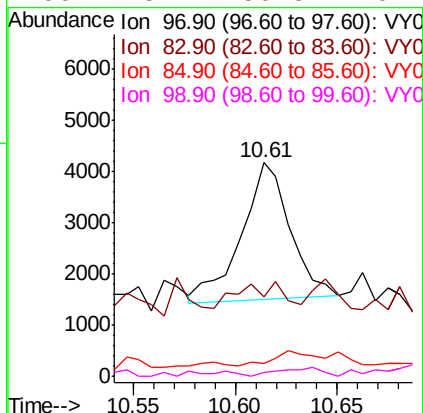
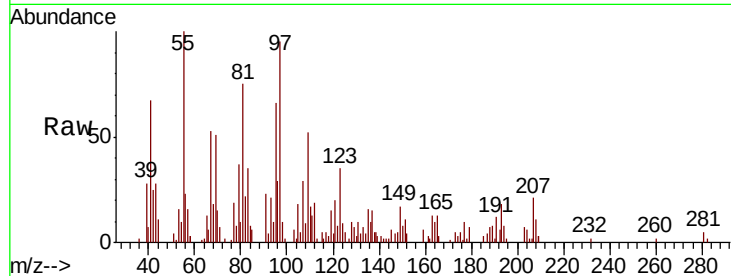




#55
 1,1,2-Trichloroethane
 Concen: 1.432 ug/l
 RT: 10.61 min Scan# 1456
 Delta R.T. -0.03 min
 Lab File: VY003170.D
 Acq: 10 Jul 2020 17:54

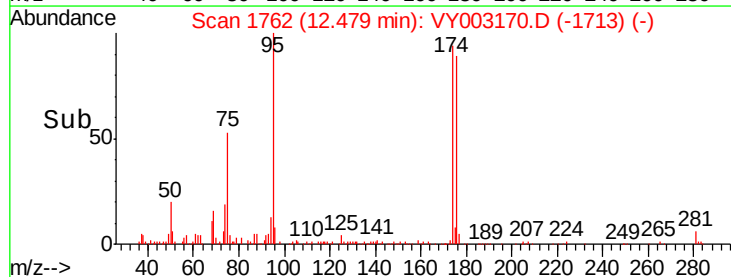
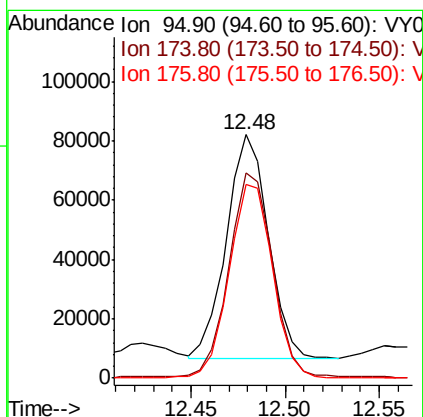
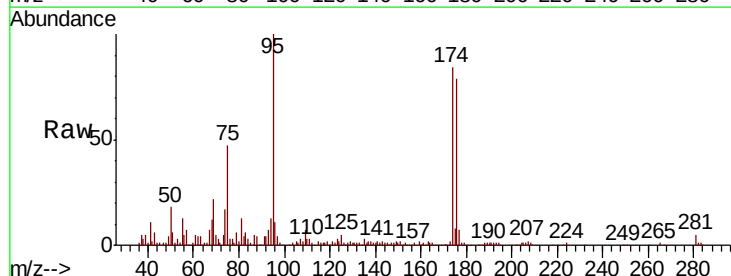
Instrument :
 MSVOA_Y
 ClientSampleId :
 RBR-07RE

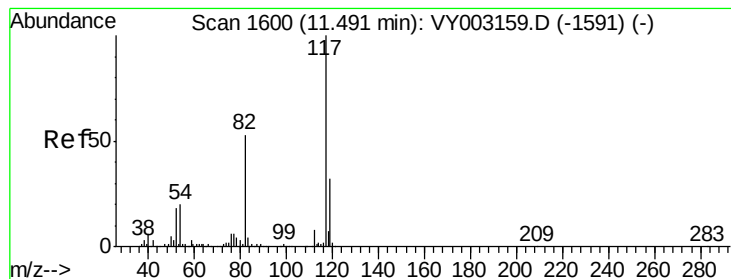
Tot Ion: 97 Resp: 4461
 Ion Ratio Lower Upper
 97 100
 83 2.0 68.8 103.2#
 85 1.8 43.1 64.7#
 99 3.2 50.8 76.2#



#62
 4-Bromofluorobenzene
 Concen: 25.992 ug/l
 RT: 12.48 min Scan# 1762
 Delta R.T. 0.00 min
 Lab File: VY003170.D
 Acq: 10 Jul 2020 17:54

Tgt Ion: 95 Resp: 117071
 Ion Ratio Lower Upper
 95 100
 174 93.5 0.0 190.6
 176 89.2 0.0 186.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.49 min Scan# 1600

Delta R.T. 0.00 min

Lab File: VY003170.D

Acq: 10 Jul 2020 17:54

Instrument :

MSVOA_Y

ClientSampleId :

RBR-07RE

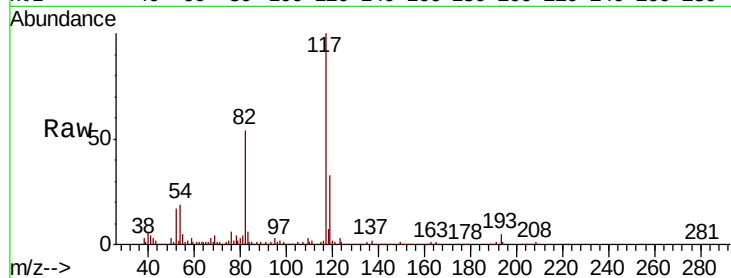
Tot Ion:117 Resp: 362680

Ion Ratio Lower Upper

117 100

82 53.2 42.0 63.0

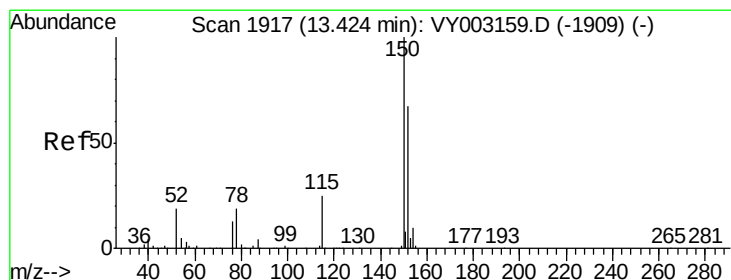
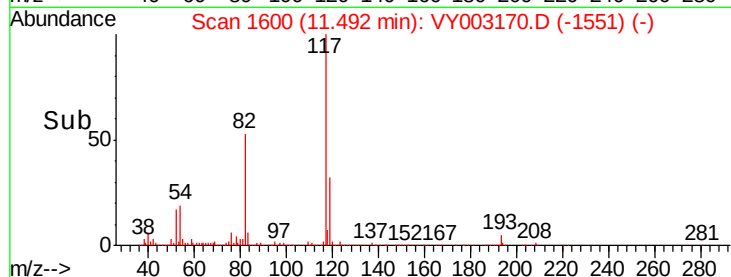
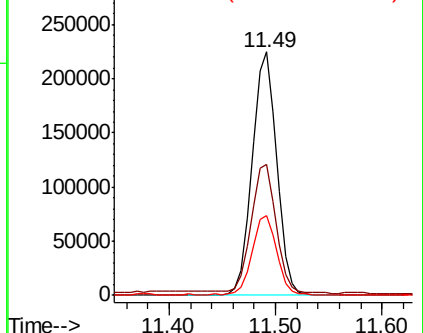
119 32.5 25.5 38.3



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VY0

Ion 118.90 (118.60 to 119.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.42 min Scan# 1917

Delta R.T. 0.00 min

Lab File: VY003170.D

Acq: 10 Jul 2020 17:54

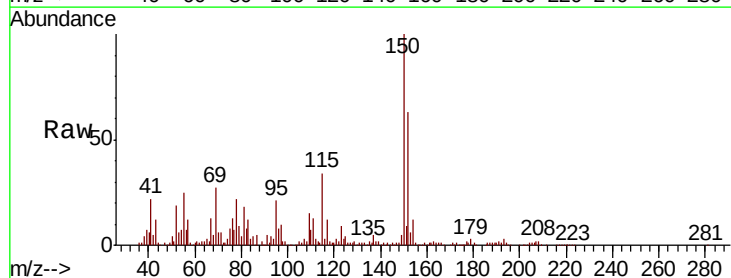
Tgt Ion:152 Resp: 86383

Ion Ratio Lower Upper

152 100

115 49.4 26.9 80.7

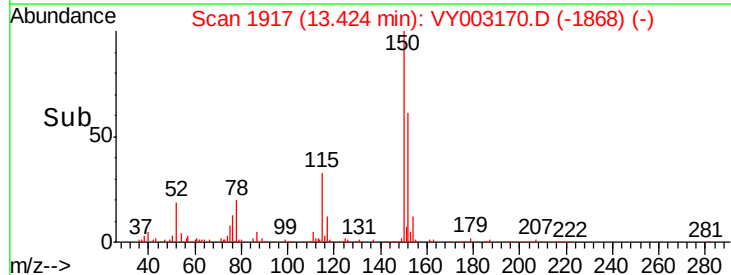
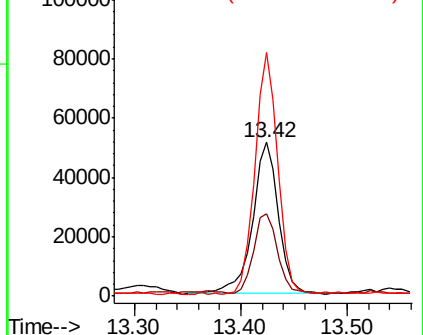
150 141.2 0.0 338.0

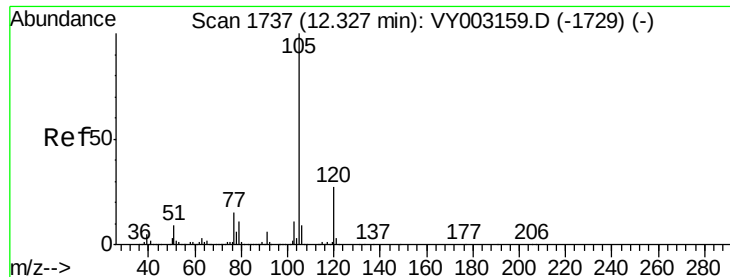


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 2.099 ug/l

RT: 12.33 min Scan# 1737

Delta R.T. 0.00 min

Lab File: VY003170.D

Acq: 10 Jul 2020 17:54

Instrument :

MSVOA_Y

ClientSampleId :

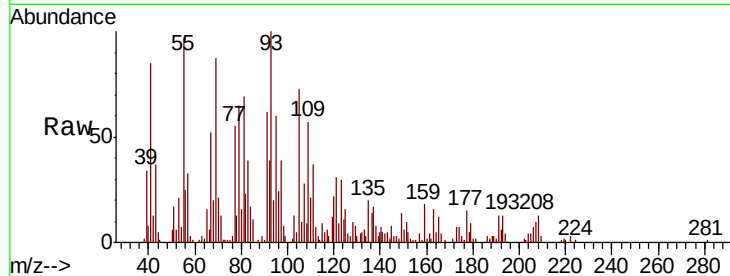
RBR-07RE

Tot Ion:105 Resp: 11556

Ion Ratio Lower Upper

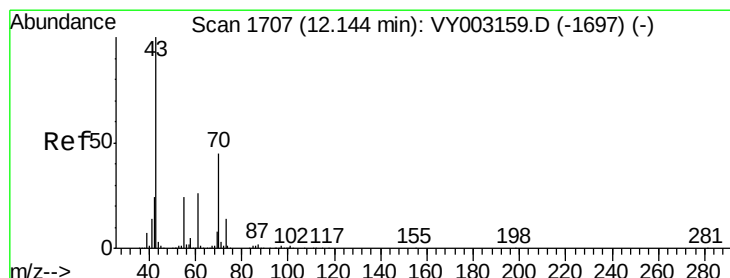
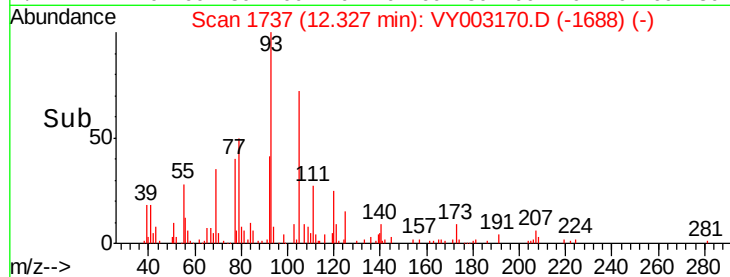
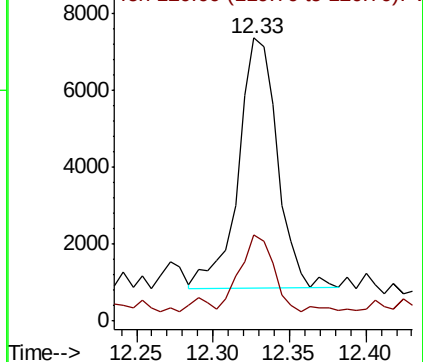
105 100

120 25.9 13.4 40.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 1.400 ug/l

RT: 12.13 min Scan# 1704

Delta R.T. -0.02 min

Lab File: VY003170.D

Acq: 10 Jul 2020 17:54

Tgt Ion: 43 Resp: 2163

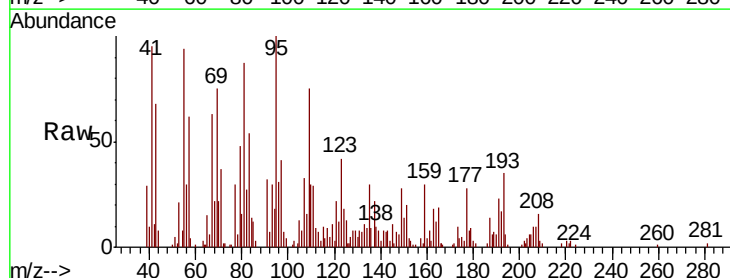
Ion Ratio Lower Upper

43 100

70 0.0 35.6 53.4#

55 0.0 19.4 29.2#

61 0.0 20.8 31.2#

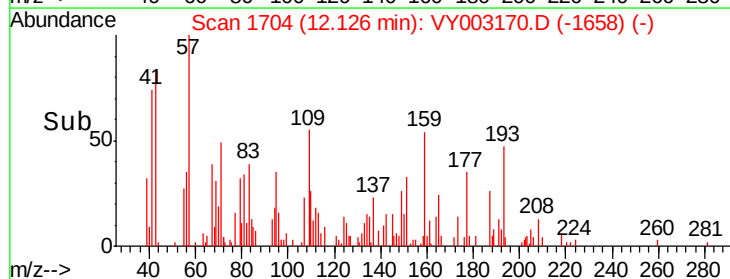
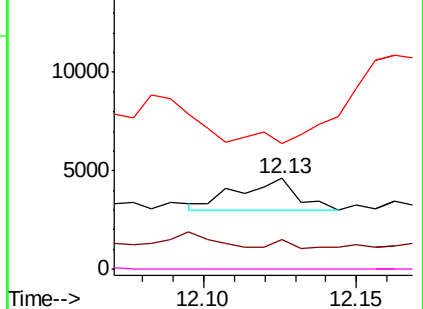


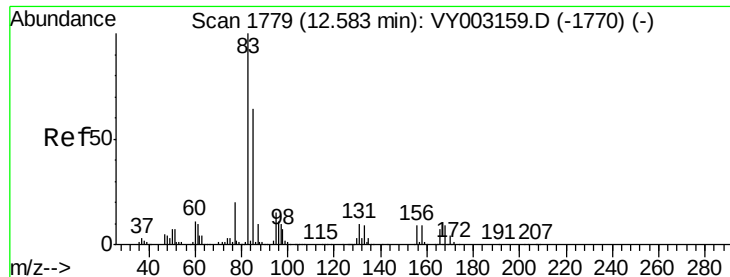
Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 70.00 (69.70 to 70.70): VY0

Ion 55.00 (54.70 to 55.70): VY0

Ion 61.00 (60.70 to 61.70): VY0





#75

1,1,2,2-Tetrachloroethane

Concen: 1.537 ug/l

RT: 12.54 min Scan# 1772

Delta R.T. -0.04 min

Lab File: VY003170.D

Acq: 10 Jul 2020 17:54

Instrument :

MSVOA_Y

ClientSampleId :

RBR-07RE

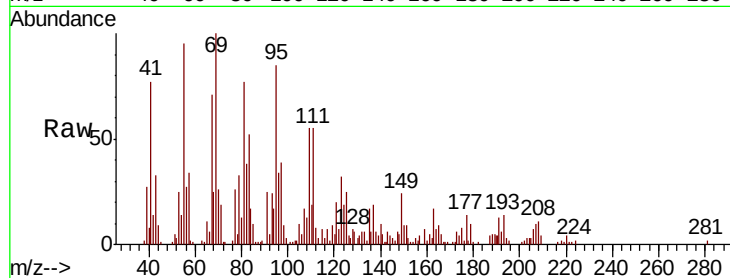
Tot Ion: 83 Resp: 1634

Ion Ratio Lower Upper

83 100

131 11.4 5.2 15.6

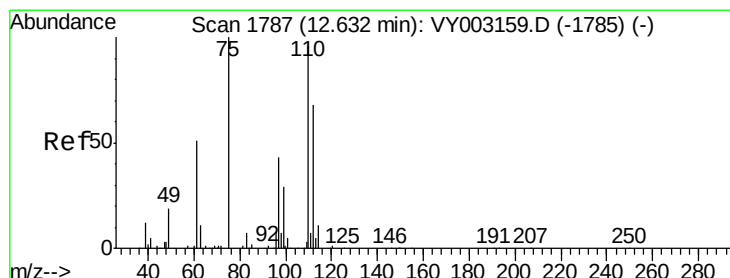
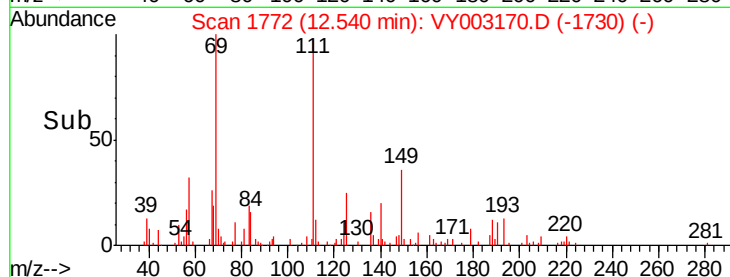
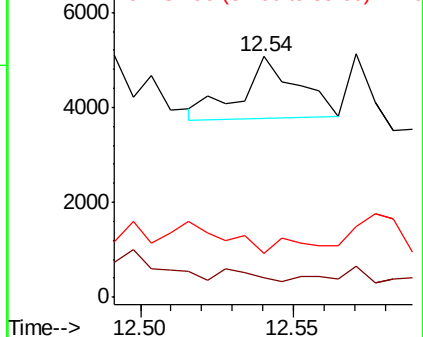
85 0.0 32.0 96.0#



Abundance Ion 82.90 (82.60 to 83.60): VY0

Ion 130.80 (130.50 to 131.50): VY0

Ion 84.90 (84.60 to 85.60): VY0



#76

1,2,3-Trichloropropane

Concen: 76.069 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. -0.15 min

Lab File: VY003170.D

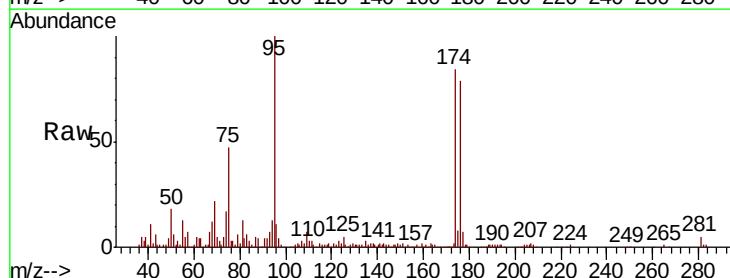
Acq: 10 Jul 2020 17:54

Tgt Ion: 75 Resp: 58165

Ion Ratio Lower Upper

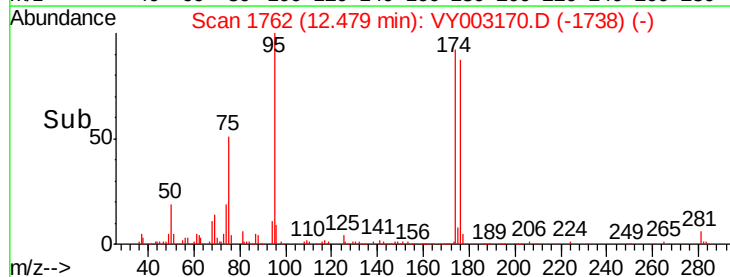
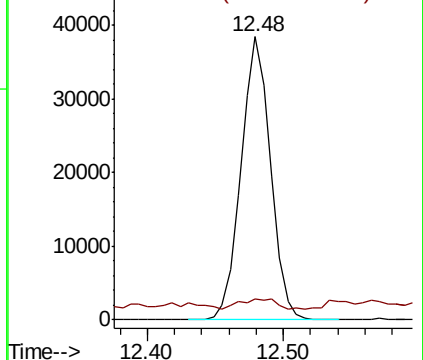
75 100

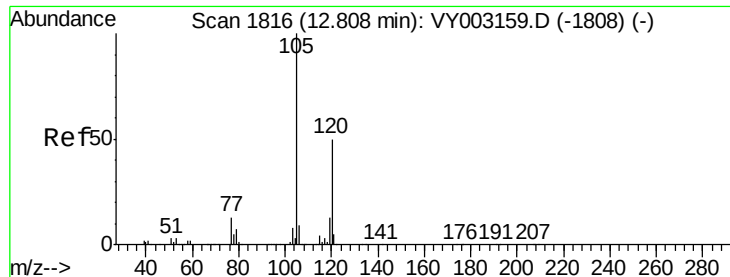
77 4.5 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 77.00 (76.70 to 77.70): VY0





#80

1,3,5-Trimethylbenzene

Concen: 1.792 ug/l

RT: 12.81 min Scan# 1816

Delta R.T. 0.00 min

Lab File: VY003170.D

Acq: 10 Jul 2020 17:54

Instrument :

MSVOA_Y

ClientSampleId :

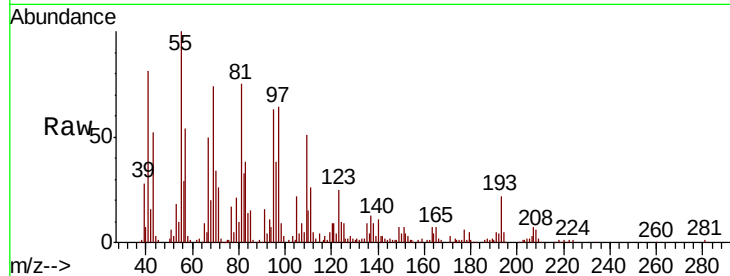
RBR-07RE

Tot Ion: 105 Resp: 8222

Ion Ratio Lower Upper

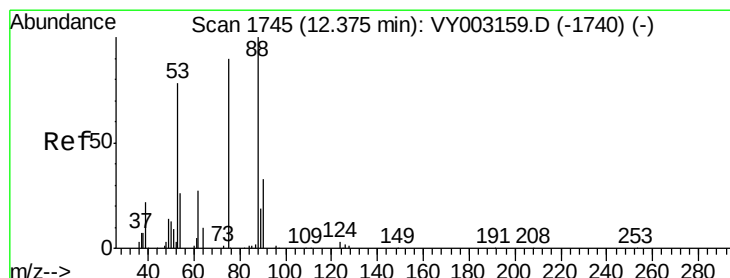
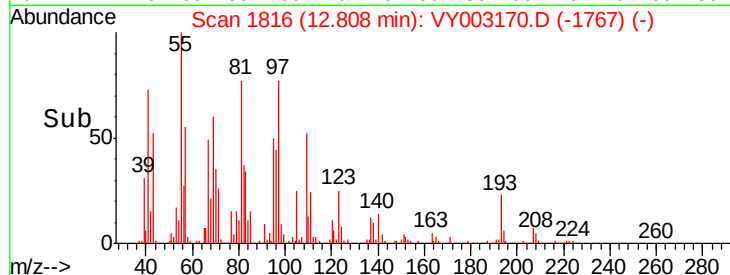
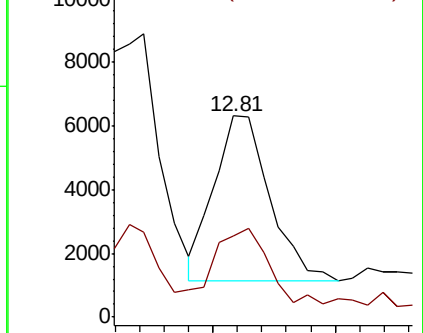
105 100

120 45.1 24.9 74.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 148.044 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. 0.10 min

Lab File: VY003170.D

Acq: 10 Jul 2020 17:54

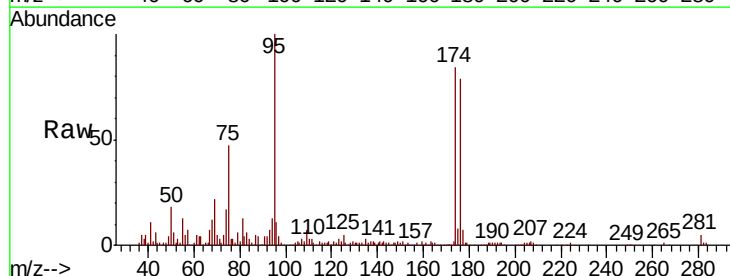
Tgt Ion: 75 Resp: 58165

Ion Ratio Lower Upper

75 100

53 1.6 72.0 108.0#

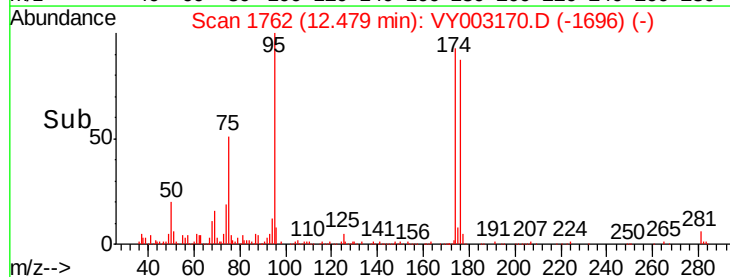
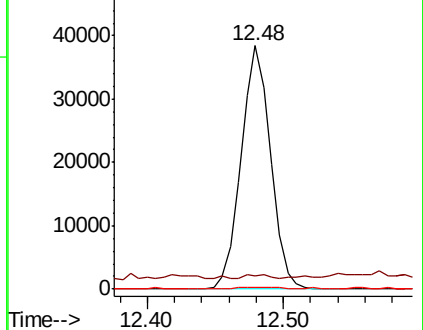
89 0.9 37.3 55.9#

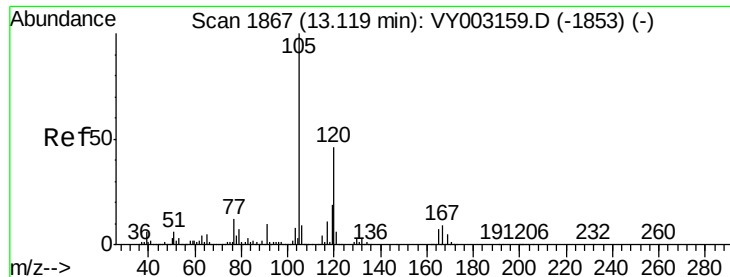


Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 53.00 (52.70 to 53.70): VY0

Ion 88.90 (88.60 to 89.60): VY0

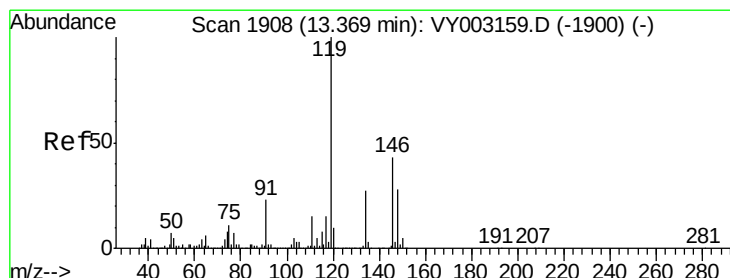
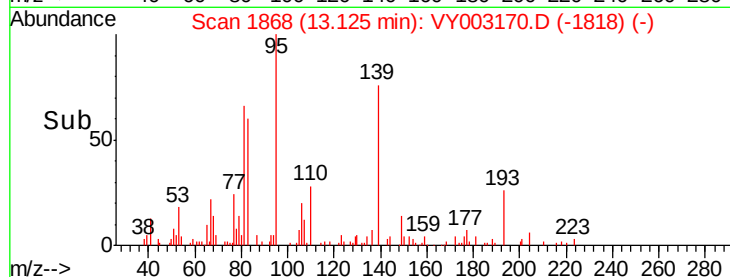
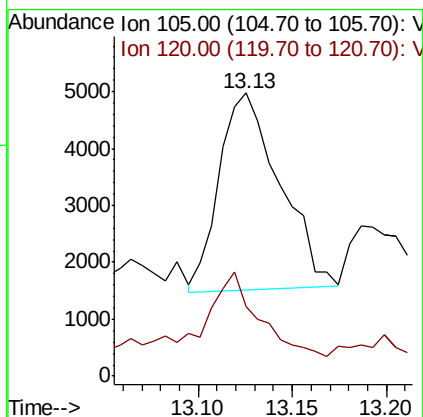
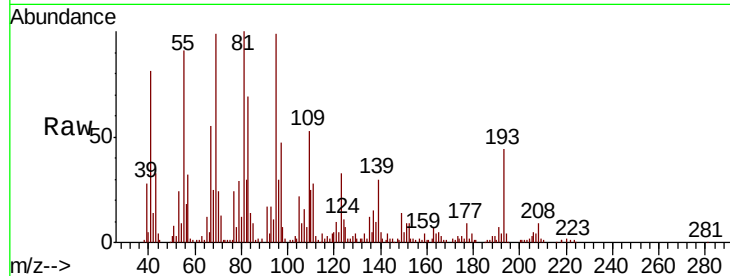




#84
 1,2,4-Trimethylbenzene
 Concen: 1.671 ug/l
 RT: 13.13 min Scan# 1868
 Delta R.T. 0.01 min
 Lab File: VY003170.D
 Acq: 10 Jul 2020 17:54

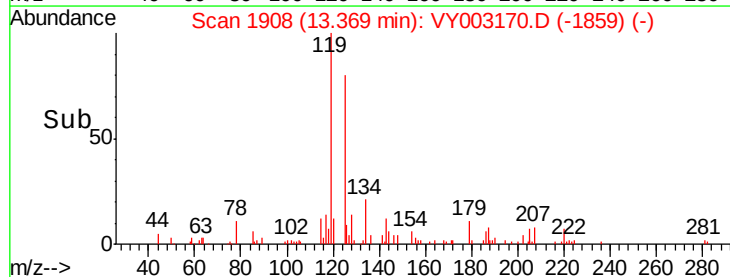
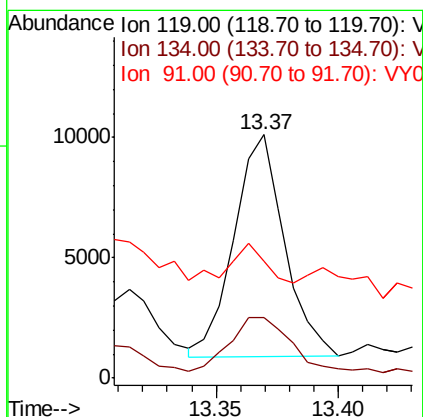
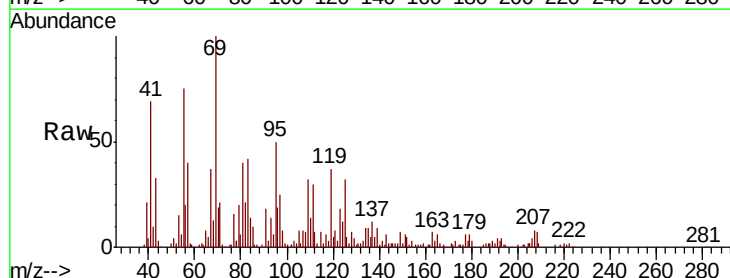
Instrument :
 MSVOA_Y
 ClientSampleId :
 RBR-07RE

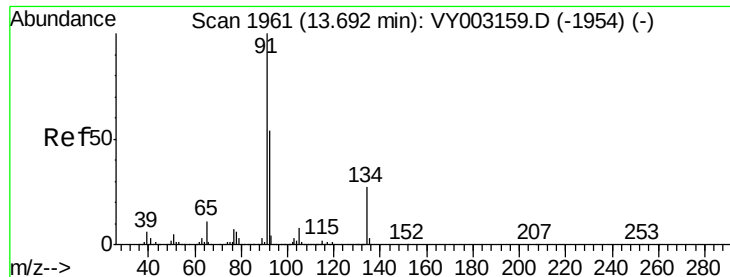
Tot Ion:105 Resp: 7714
 Ion Ratio Lower Upper
 105 100
 120 46.2 22.5 67.5



#86
 p-Isopropyltoluene
 Concen: 2.554 ug/l
 RT: 13.37 min Scan# 1908
 Delta R.T. 0.00 min
 Lab File: VY003170.D
 Acq: 10 Jul 2020 17:54

Tgt Ion:119 Resp: 13269
 Ion Ratio Lower Upper
 119 100
 134 30.5 13.4 40.2
 91 10.4 11.2 33.6#





#89

n-Butylbenzene

Concen: 2.088 ug/l

RT: 13.67 min Scan# 1957

Delta R.T. -0.02 min

Lab File: VY003170.D

Acq: 10 Jul 2020 17:54

Instrument :

MSVOA_Y

ClientSampleId :

RBR-07RE

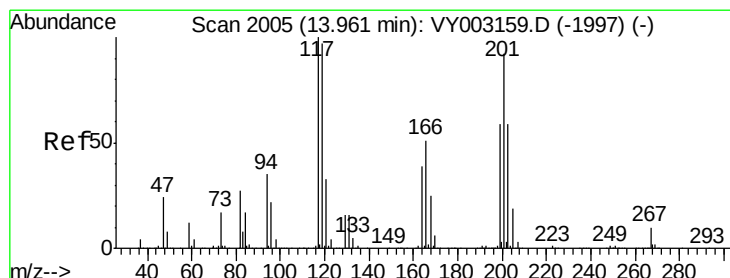
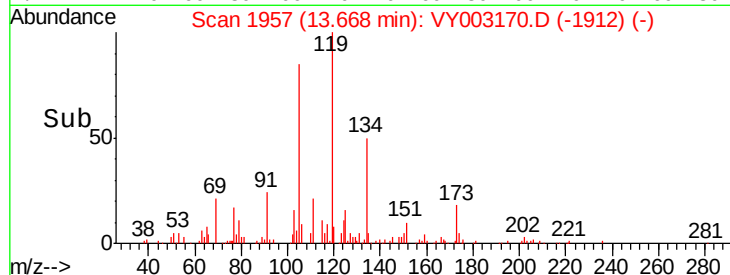
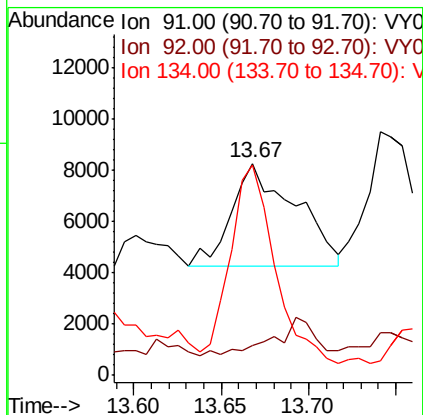
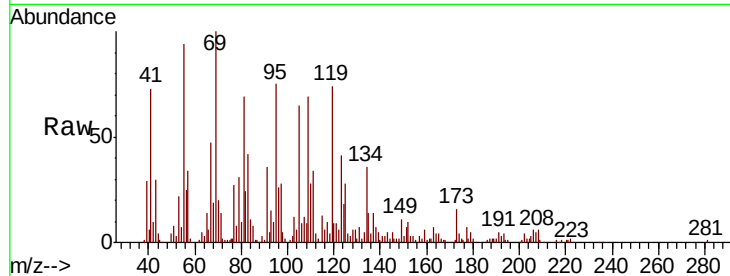
Tot Ion: 91 Resp: 10204

Ion Ratio Lower Upper

91 100

92 0.0 26.9 80.7#

134 135.1 13.6 40.7#



#90

Hexachloroethane

Concen: 1.788 ug/l

RT: 13.97 min Scan# 2006

Delta R.T. 0.01 min

Lab File: VY003170.D

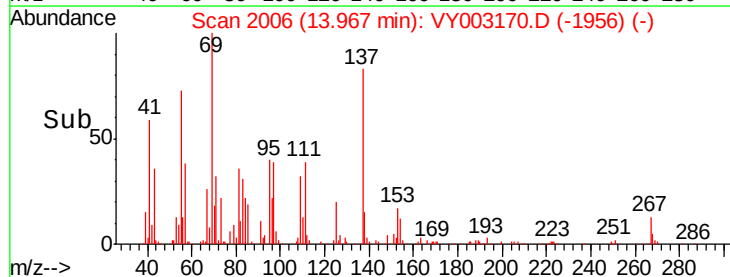
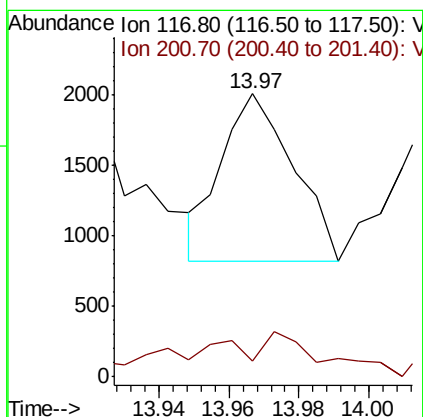
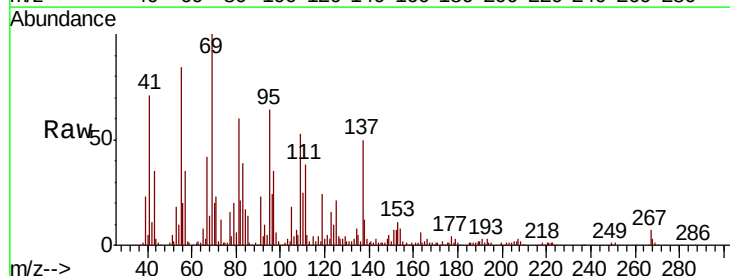
Acq: 10 Jul 2020 17:54

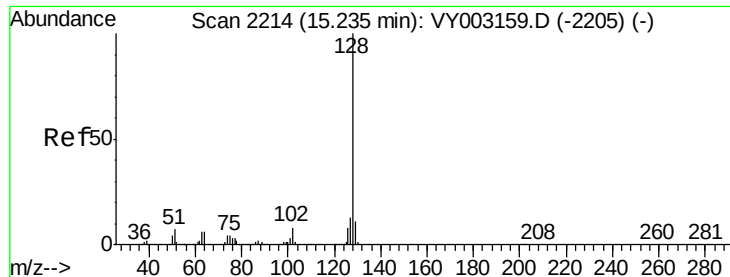
Tgt Ion: 117 Resp: 1692

Ion Ratio Lower Upper

117 100

201 22.2 45.1 135.3#





#95

Naphthalene

Concen: 1.226 ug/l

RT: 15.23 min Scan# 2214

Delta R.T. 0.00 min

Lab File: VY003170.D

Acq: 10 Jul 2020 17:54

Instrument :

MSVOA_Y

ClientSampleId :

RBR-07RE

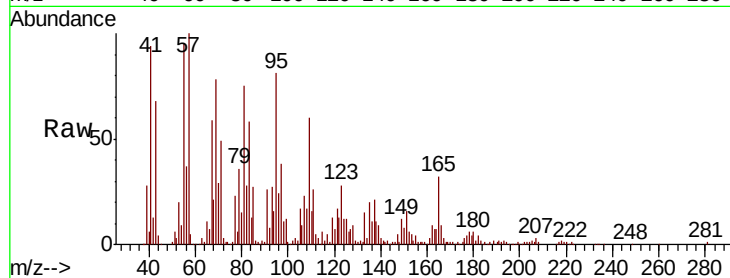
Tot Ion:128 Resp: 3356

Ion Ratio Lower Upper

128 100

127 87.4 10.9 16.3#

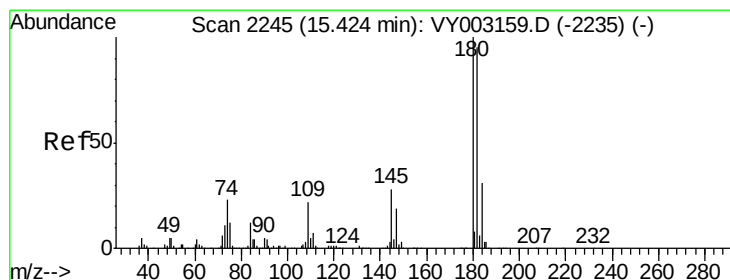
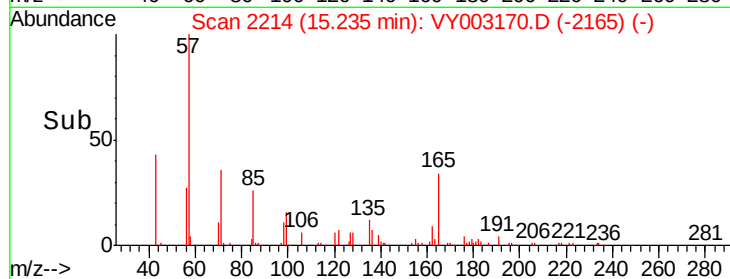
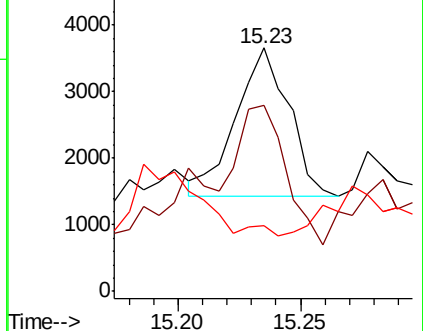
129 0.0 9.0 13.6#



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: 4.692 ug/l

RT: 15.44 min Scan# 2247

Delta R.T. 0.01 min

Lab File: VY003170.D

Acq: 10 Jul 2020 17:54

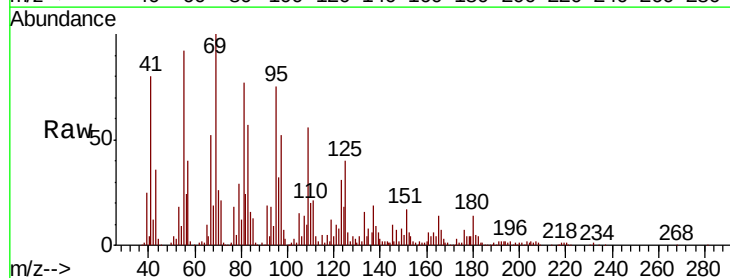
Tgt Ion:180 Resp: 6145

Ion Ratio Lower Upper

180 100

182 16.4 48.8 146.3#

145 0.0 14.9 44.5#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

