

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY072720\
 Data File : VY003356.D
 Acq On : 27 Jul 2020 15:13
 Operator : SY/MD
 Sample : L3436-08RE
 Misc : 6.27G/5ML/MSVOA Y/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 8

Quant Time: Jul 28 05:05:21 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	480664	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.69	114	735131	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.49	117	611992	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.42	152	203089	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	238647	58.82	ug/l	0.00
Spiked Amount			Recovery	=	117.64%	
35) Dibromofluoromethane	7.72	113	227807	53.85	ug/l	0.00
Spiked Amount			Recovery	=	107.70%	
50) Toluene-d8	10.18	98	868174	55.20	ug/l	0.00
Spiked Amount			Recovery	=	110.40%	
62) 4-Bromofluorobenzene	12.48	95	232072	40.84	ug/l	0.00
Spiked Amount			Recovery	=	81.68%	

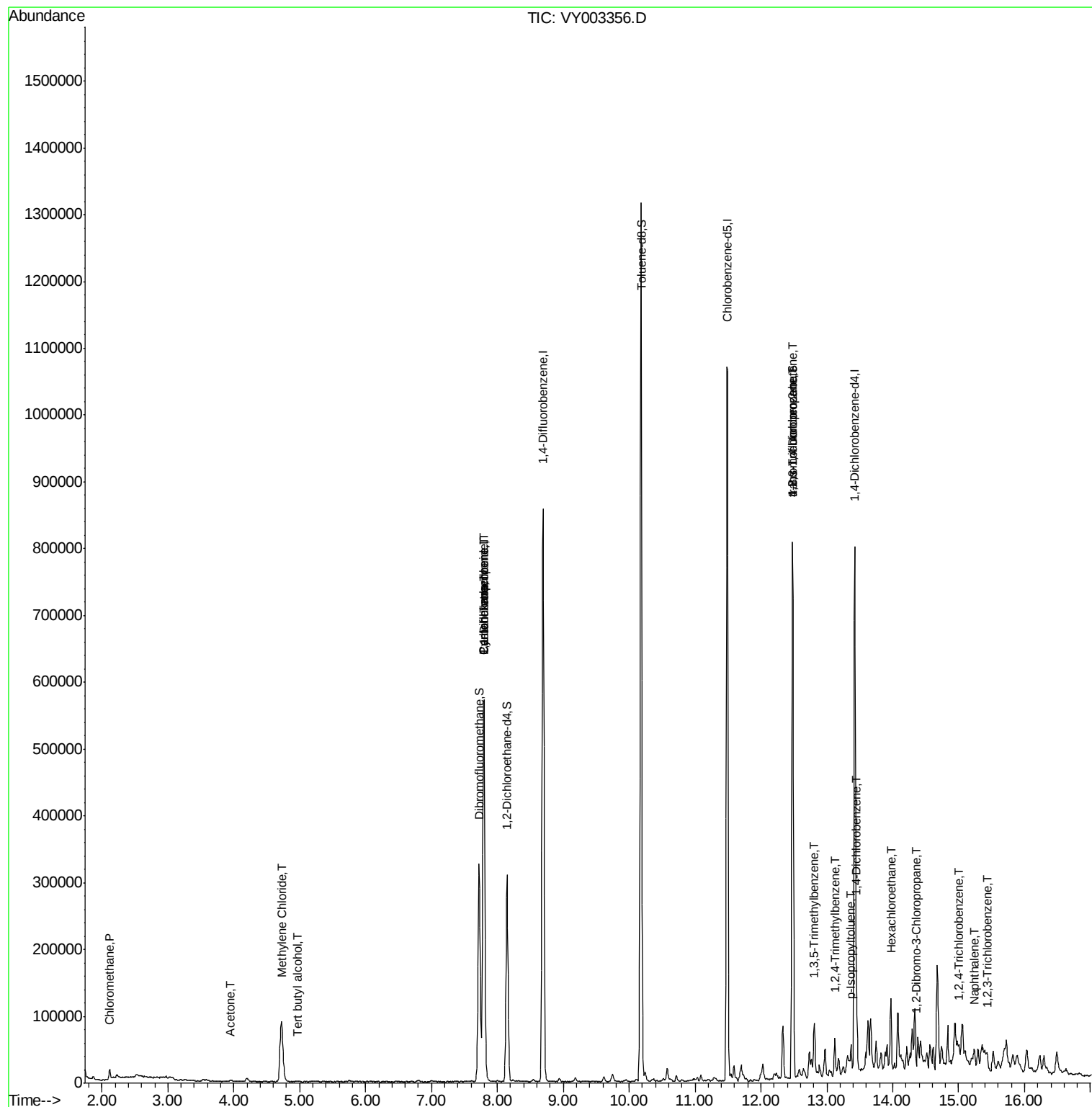
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.12	50	12363	2.587	ug/l	95
11) Tert butyl alcohol	4.96	59	539	1.229	ug/l #	87
16) Acetone	3.95	43	2559	2.824	ug/l #	85
20) Methylene Chloride	4.72	84	72460	11.681	ug/l	96
31) Cyclohexane	7.79	56	9278	1.257	ug/l #	1
36) 1,1-Dichloropropene	7.80	75	33610	5.044	ug/l #	49
38) Carbon Tetrachloride	7.80	117	41358	6.013	ug/l #	17
76) 1,2,3-Trichloropropane	12.48	75	118136	65.716	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.81	105	33893	3.142	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.48	75	118136	127.895	ug/l #	13
84) 1,2,4-Trimethylbenzene	13.12	105	28825	2.656	ug/l	97
86) p-Isopropyltoluene	13.37	119	20088	1.645	ug/l	97
88) 1,4-Dichlorobenzene	13.45	146	8682	1.406	ug/l #	67
90) Hexachloroethane	13.97	117	4731	2.127	ug/l #	13
92) 1,2-Dibromo-3-Chloropropan	14.36	75	422	1.041	ug/l	91
93) 1,2,4-Trichlorobenzene	15.00	180	5586	1.434	ug/l #	46
95) Naphthalene	15.23	128	18218	2.830	ug/l	98
96) 1,2,3-Trichlorobenzene	15.43	180	6500	2.111	ug/l #	85

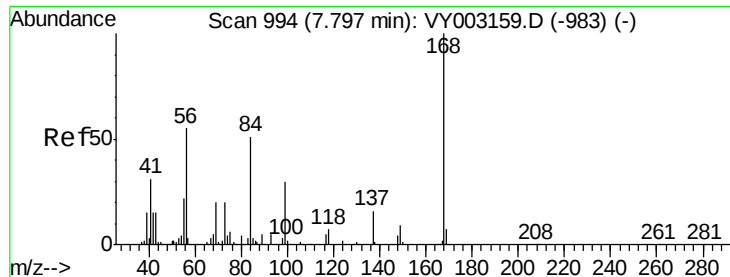
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.80 min Scan# 994

Delta R.T. 0.00 min

Lab File: VY003356.D

Acq: 27 Jul 2020 15:13

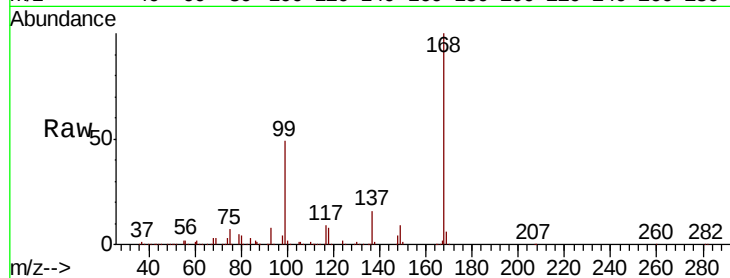
Instrument :
MSVOA_Y
ClientSampleId :
8

Tot Ion:168 Resp: 480664

Ion Ratio Lower Upper

168 100

99 48.9 37.3 55.9



Abundance Ion 167.90 (167.60 to 168.60): VY003159.D (-983) (-)

Ion 98.90 (98.60 to 99.60): VY003159.D (-983) (-)

7.80

250000

200000

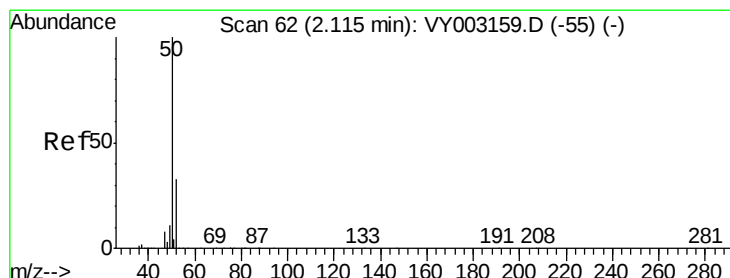
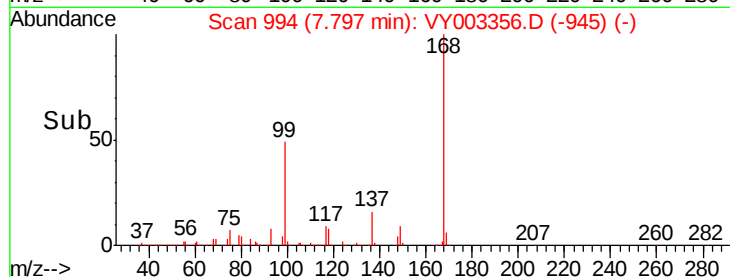
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 2.587 ug/l

RT: 2.12 min Scan# 62

Delta R.T. 0.00 min

Lab File: VY003356.D

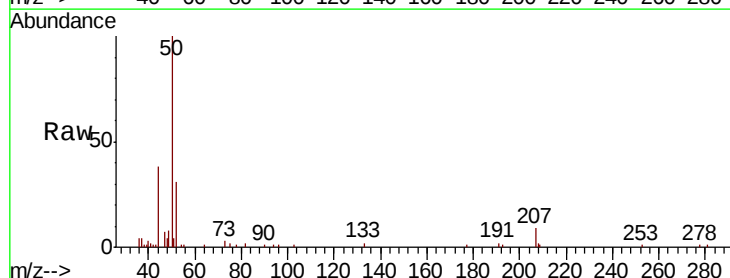
Acq: 27 Jul 2020 15:13

Tgt Ion: 50 Resp: 12363

Ion Ratio Lower Upper

50 100

52 30.6 26.6 39.8



Abundance Ion 49.90 (49.60 to 50.60): VY003159.D (-55) (-)

Ion 51.90 (51.60 to 52.60): VY003159.D (-55) (-)

2.12

10000

8000

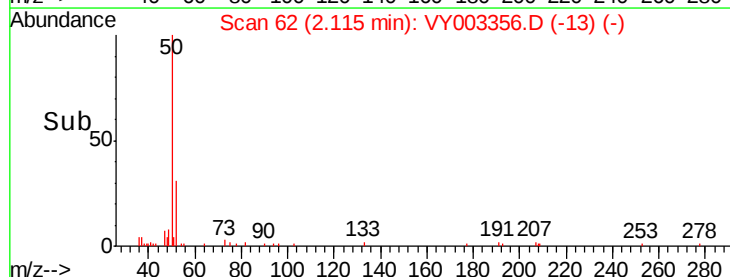
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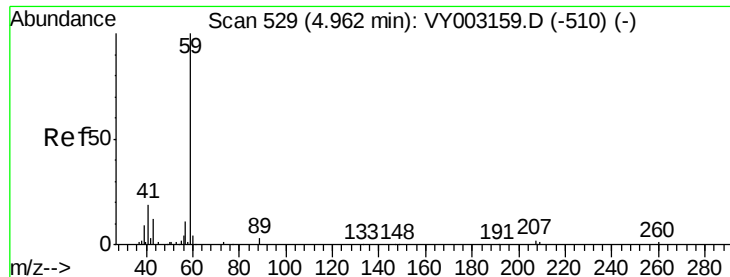
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2000

0

Time-->

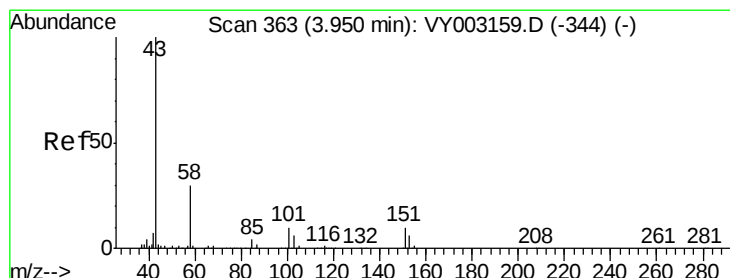
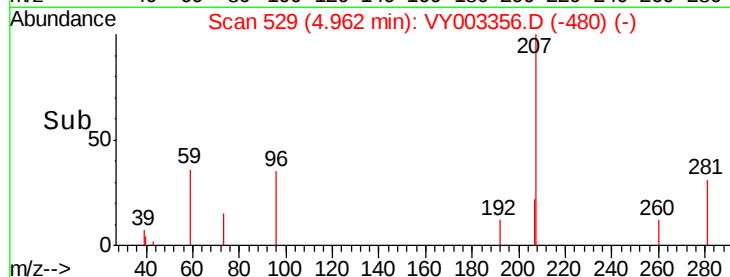
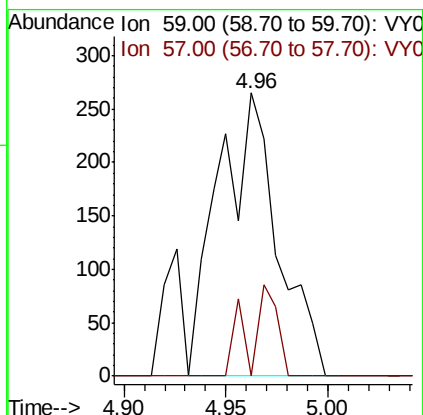
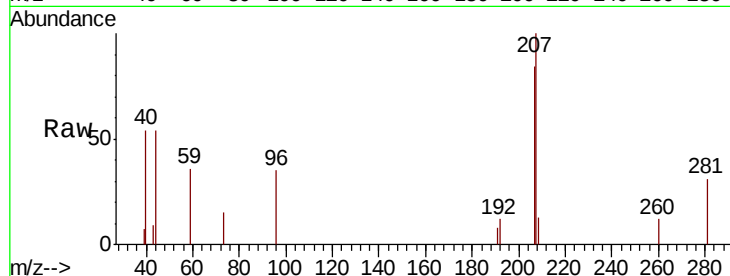




#11
Tert butyl alcohol
Concen: 1.229 ug/l
RT: 4.96 min Scan# 529
Delta R.T. 0.00 min
Lab File: VY003356.D
Acq: 27 Jul 2020 15:13

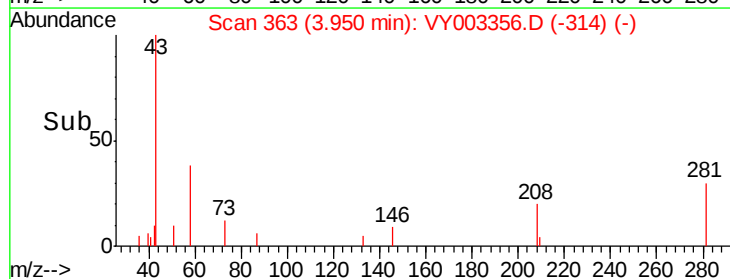
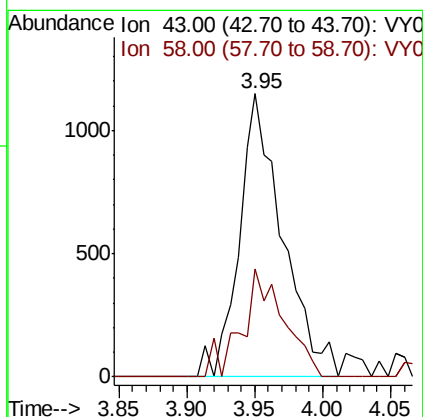
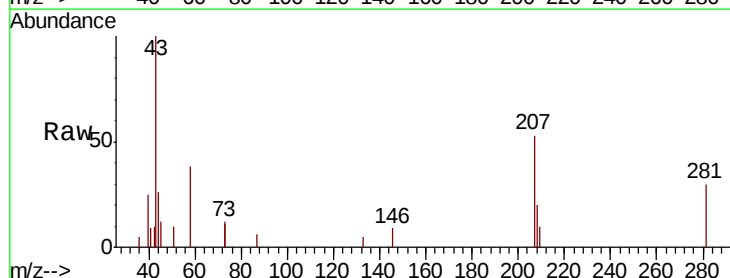
Instrument :
MSVOA_Y
ClientSampled :
8

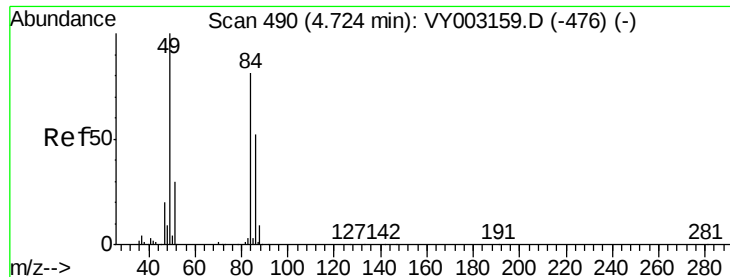
Tot Ion: 59 Resp: 539
Ion Ratio Lower Upper
59 100
57 15.2 8.4 12.6#



#16
Acetone
Concen: 2.824 ug/l
RT: 3.95 min Scan# 363
Delta R.T. 0.00 min
Lab File: VY003356.D
Acq: 27 Jul 2020 15:13

Tgt Ion: 43 Resp: 2559
Ion Ratio Lower Upper
43 100
58 38.0 23.8 35.6#

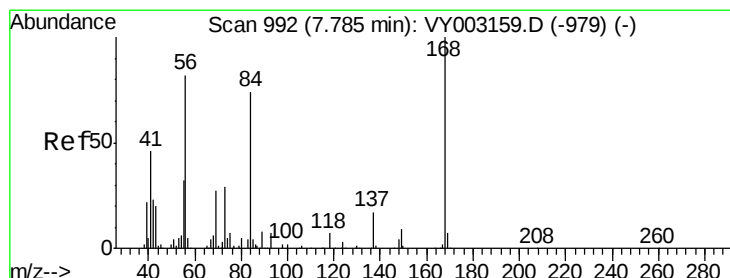
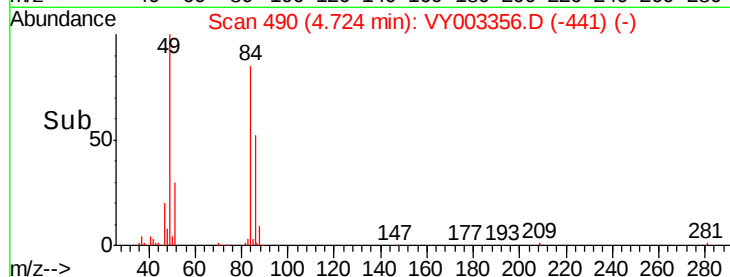
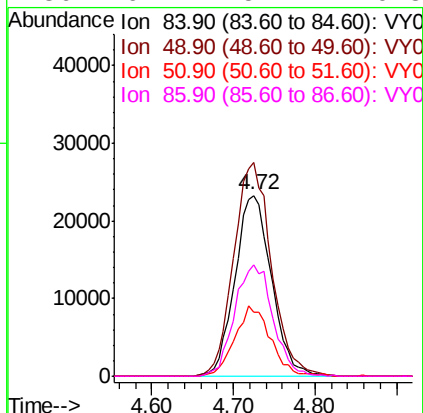
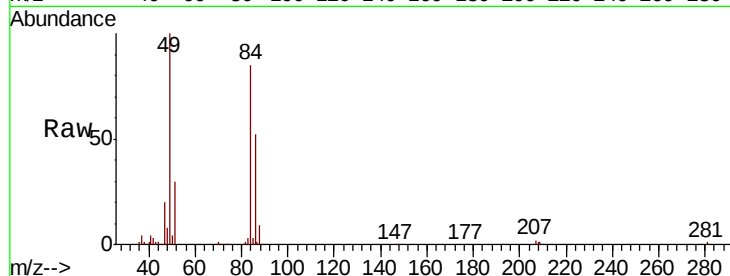




#20
Methvlene Chloride
Concen: 11.681 ug/l
RT: 4.72 min Scan# 490
Delta R.T. 0.00 min
Lab File: VY003356.D
Acq: 27 Jul 2020 15:13

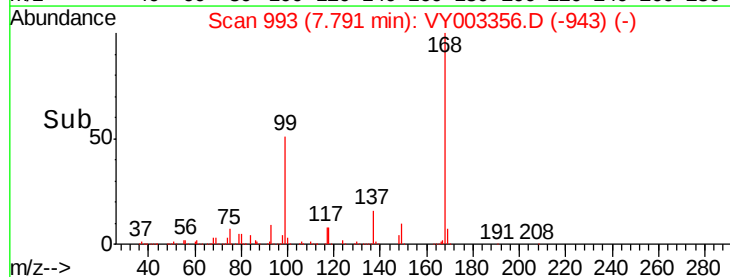
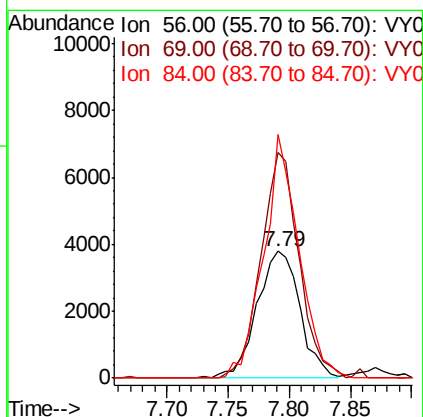
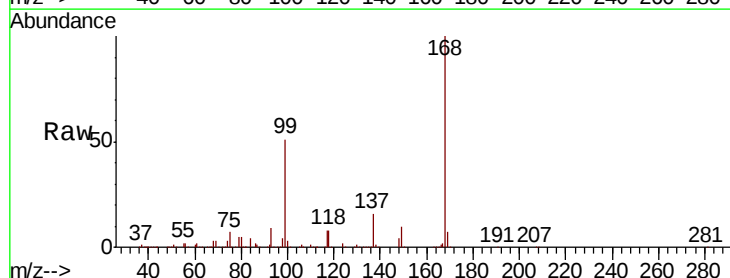
Instrument :
MSVOA_Y
ClientSampleId :
8

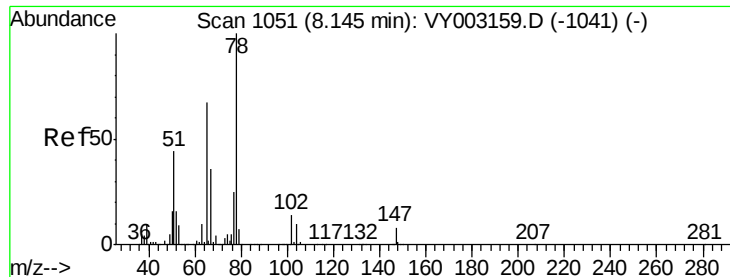
Tot Ion:	84	Resp:	72460
Ion	Ratio	Lower	Upper
84	100		
49	118.2	98.2	147.4
51	35.1	29.8	44.6
86	61.7	51.2	76.8



#31
Cyclohexane
Concen: 1.257 ug/l
RT: 7.79 min Scan# 993
Delta R.T. 0.01 min
Lab File: VY003356.D
Acq: 27 Jul 2020 15:13

Tgt Ion:	56	Resp:	9278
Ion	Ratio	Lower	Upper
56	100		
69	177.9	26.7	40.1#
84	191.8	72.3	108.5#

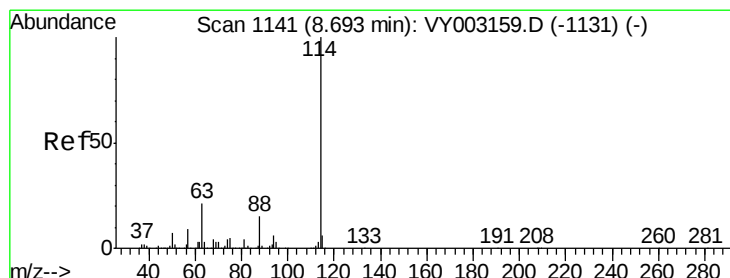
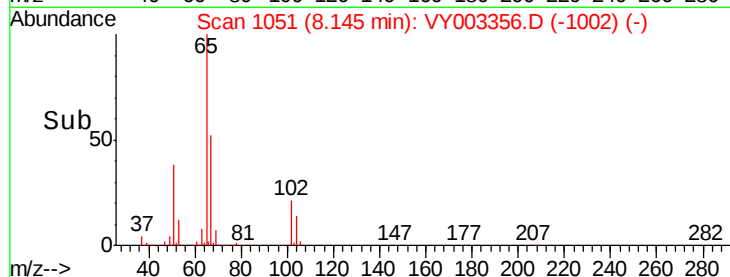
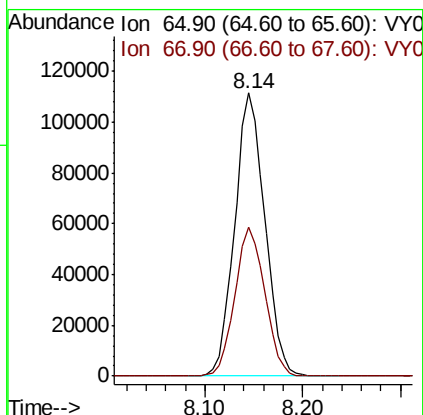
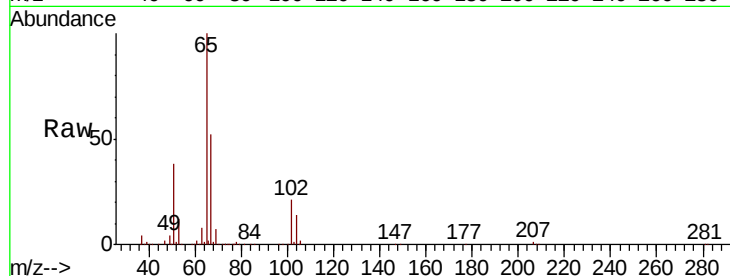




#33
 1,2-Dichloroethane-d4
 Concen: 58.824 ug/l
 RT: 8.14 min Scan# 1051
 Delta R.T. 0.00 min
 Lab File: VY003356.D
 Acq: 27 Jul 2020 15:13

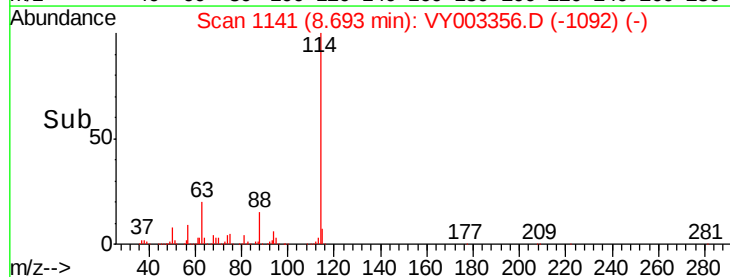
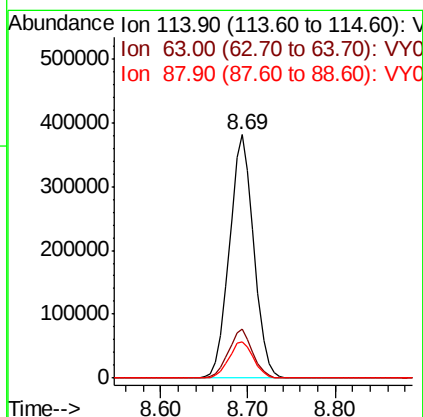
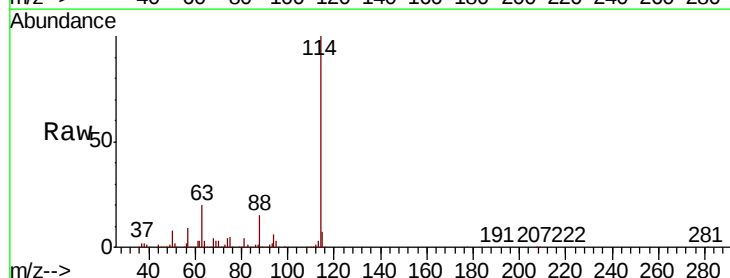
Instrument :
 MSVOA_Y
 ClientSampleId :
 8

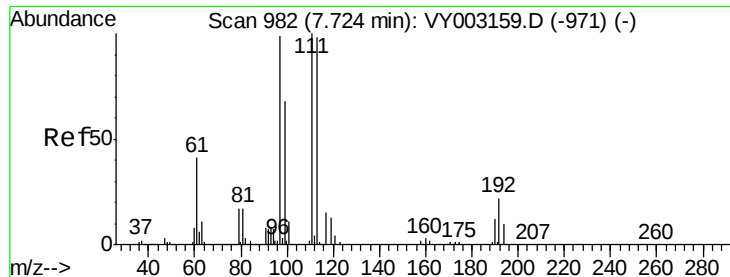
Tot Ion: 65 Resp: 238647
 Ion Ratio Lower Upper
 65 100
 67 52.2 0.0 105.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.69 min Scan# 1141
 Delta R.T. 0.00 min
 Lab File: VY003356.D
 Acq: 27 Jul 2020 15:13

Tgt Ion: 114 Resp: 735131
 Ion Ratio Lower Upper
 114 100
 63 20.0 0.0 41.2
 88 14.9 0.0 30.2

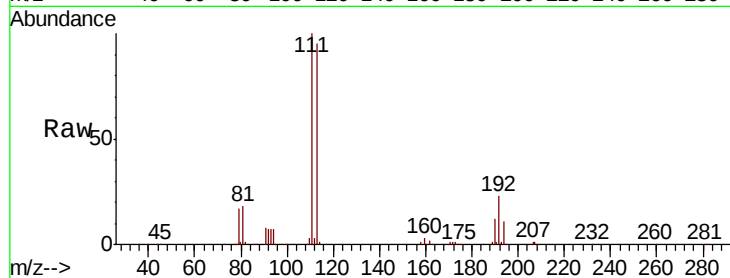




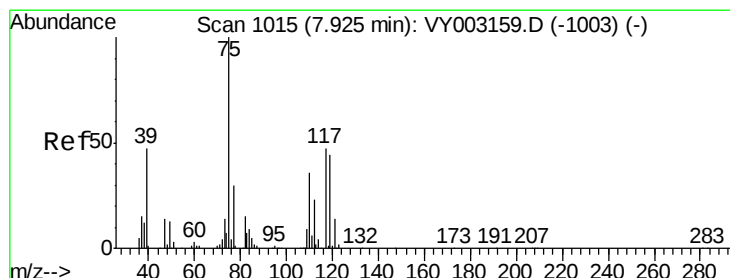
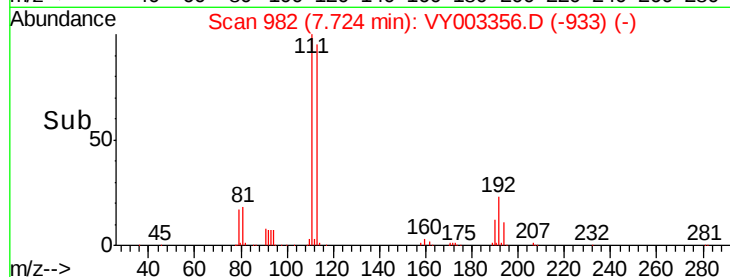
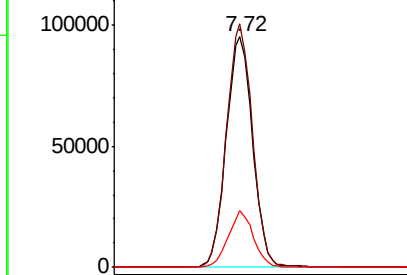
#35
 Dibromofluoromethane
 Concen: 53.849 ug/l
 RT: 7.72 min Scan# 982
 Delta R.T. 0.00 min
 Lab File: VY003356.D
 Acq: 27 Jul 2020 15:13

Instrument :
 MSVOA_Y
 ClientSampled :
 8

Tot Ion	Ratio	Lower	Upper
113	100		
111	103.4	82.1	123.1
192	23.2	18.8	28.2

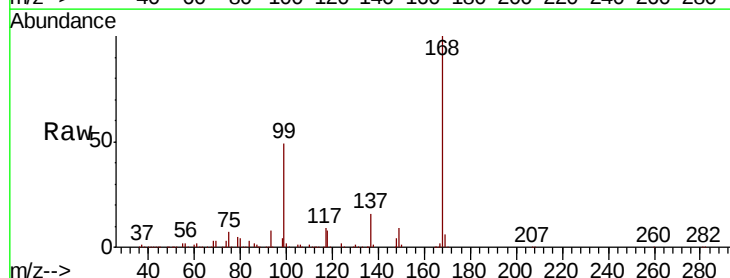


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

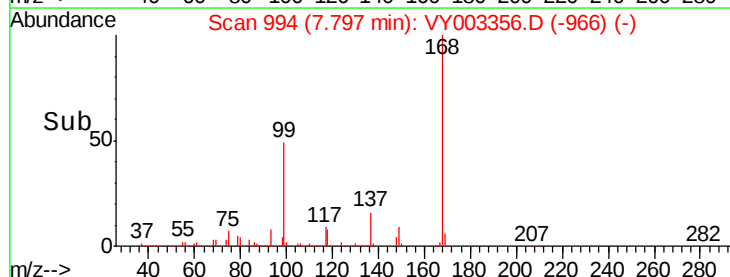
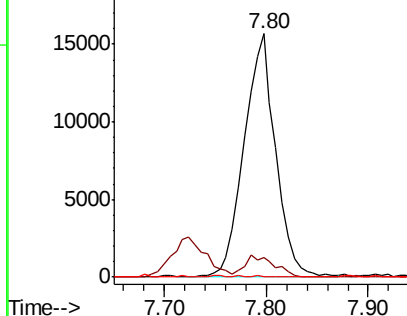


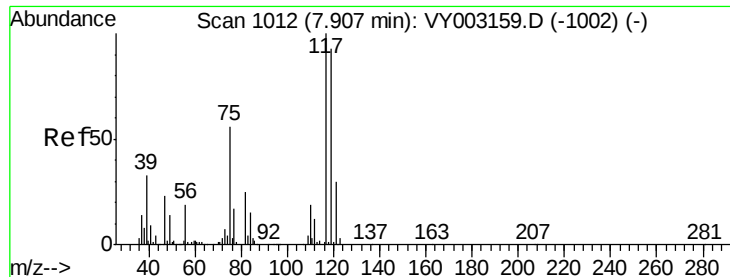
#36
 1,1-Dichloropropene
 Concen: 5.044 ug/l
 RT: 7.80 min Scan# 994
 Delta R.T. -0.13 min
 Lab File: VY003356.D
 Acq: 27 Jul 2020 15:13

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.4	18.1	54.1#
77	0.3	24.8	37.2#



Abundance Ion 74.90 (74.60 to 75.60): VY0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VY0





#38

Carbon Tetrachloride

Concen: 6.013 ug/l

RT: 7.80 min Scan# 994

Delta R.T. -0.11 min

Lab File: VY003356.D

Acq: 27 Jul 2020 15:13

Instrument :

MSVOA_Y

ClientSampleId :

8

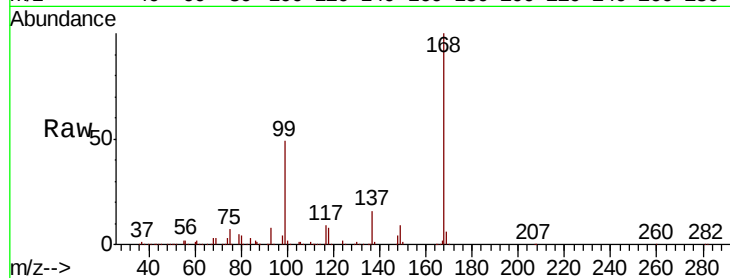
Tot Ion:117 Resp: 41358

Ion Ratio Lower Upper

117 100

119 4.6 74.5 111.7#

121 0.0 24.2 36.2#

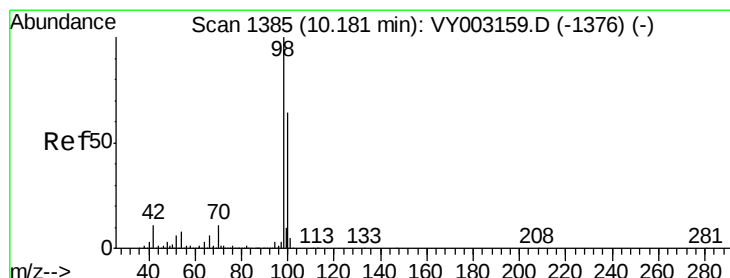
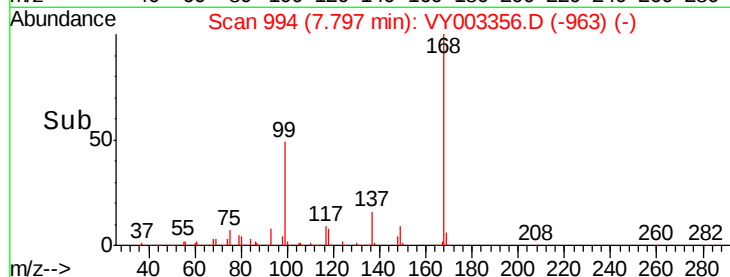
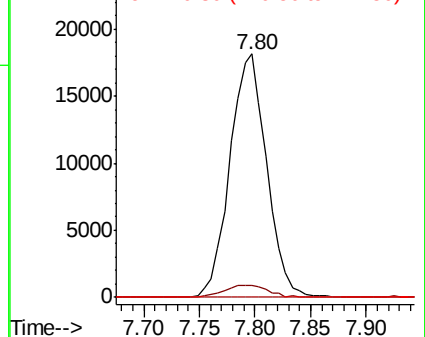


Abundance

Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#50

Toluene-d8

Concen: 55.198 ug/l

RT: 10.18 min Scan# 1385

Delta R.T. 0.00 min

Lab File: VY003356.D

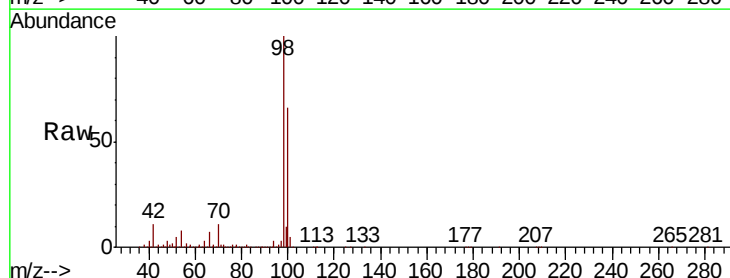
Acq: 27 Jul 2020 15:13

Tgt Ion: 98 Resp: 868174

Ion Ratio Lower Upper

98 100

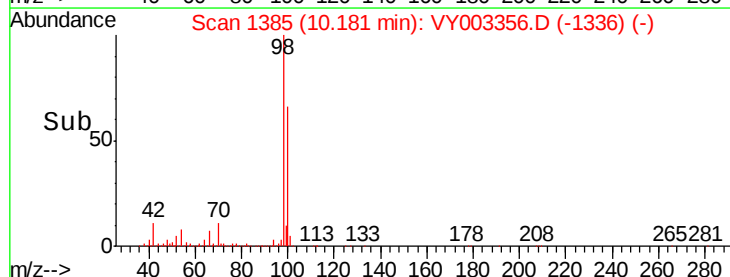
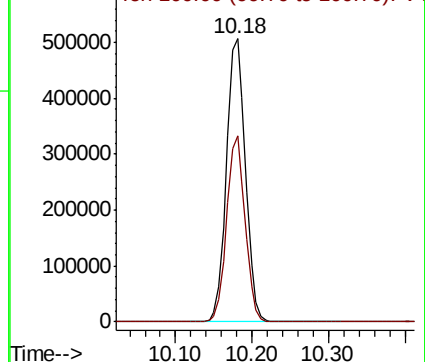
100 64.0 50.7 76.1

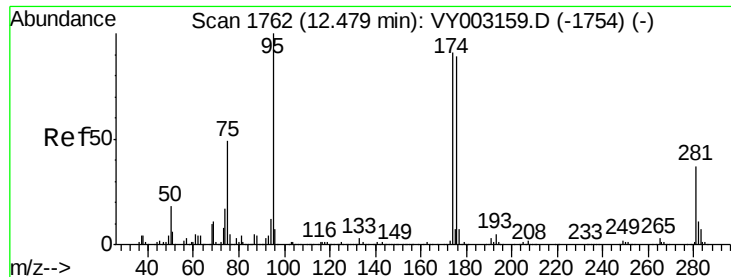


Abundance

Ion 98.00 (97.70 to 98.70): VY0

Ion 100.00 (99.70 to 100.70): VY

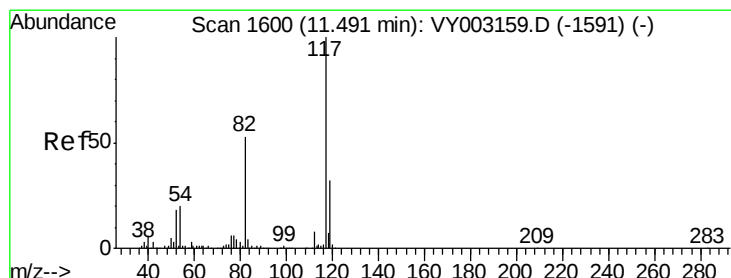
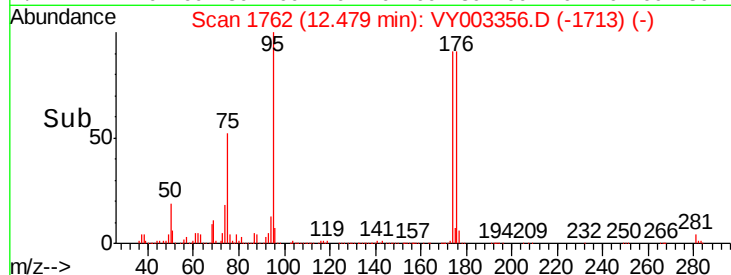
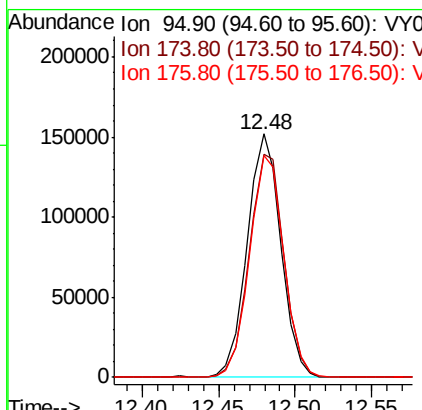
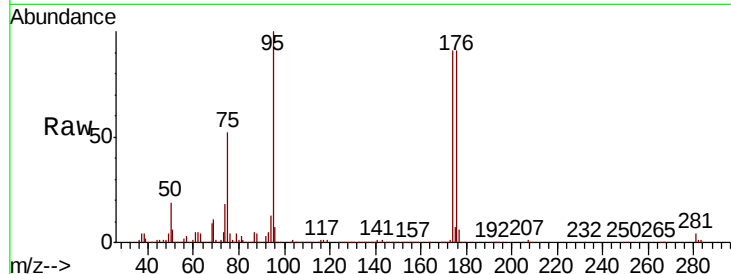




#62
4-Bromofluorobenzene
Concen: 40.843 ug/l
RT: 12.48 min Scan# 1762
Delta R.T. 0.00 min
Lab File: VY003356.D
Acq: 27 Jul 2020 15:13

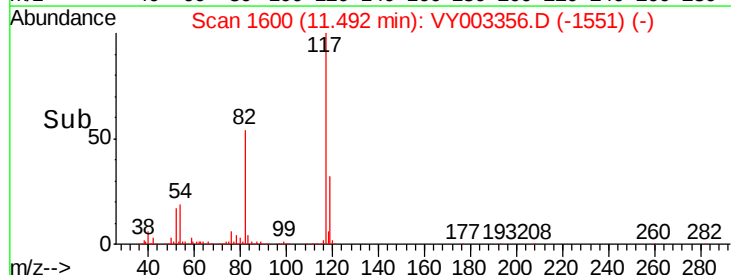
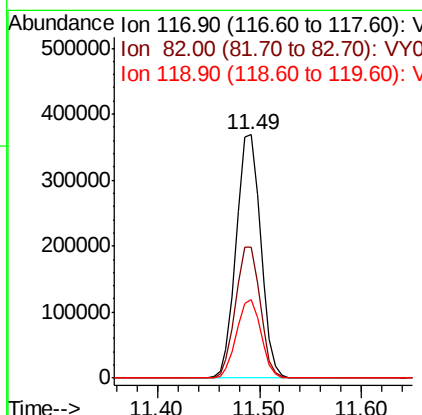
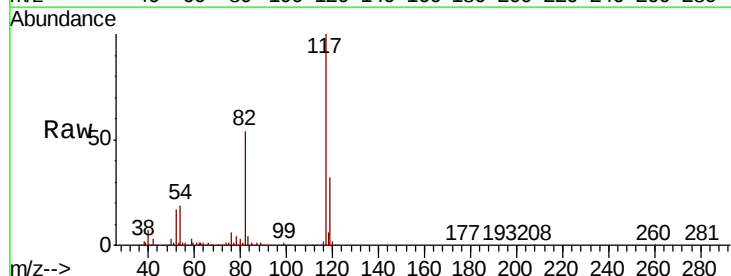
Instrument :
MSVOA_Y
ClientSampleId :
8

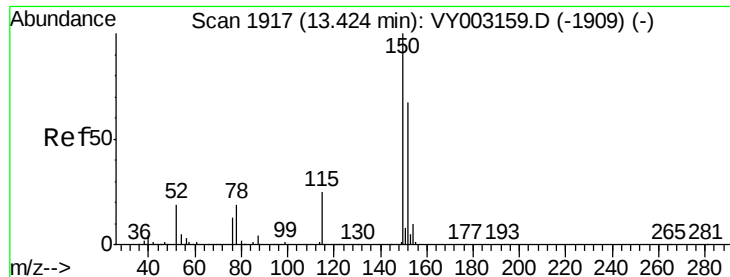
Tot Ion	Ratio	Lower	Upper
95	100		
174	94.3	0.0	190.6
176	92.8	0.0	186.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.49 min Scan# 1600
Delta R.T. 0.00 min
Lab File: VY003356.D
Acq: 27 Jul 2020 15:13

Tgt Ion	Ratio	Lower	Upper
117	100		
82	53.6	42.0	63.0
119	32.5	25.5	38.3



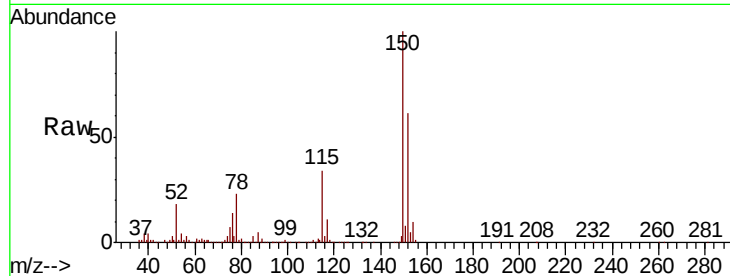


#72

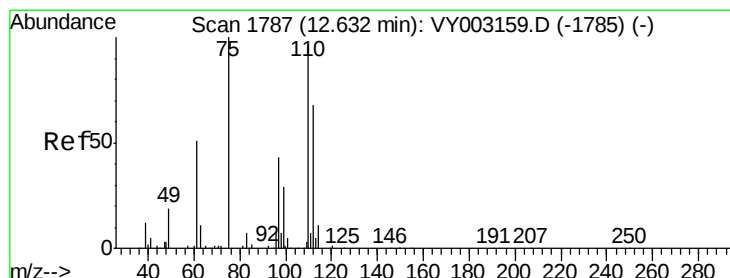
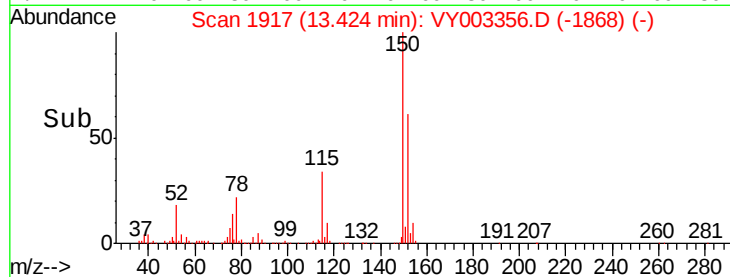
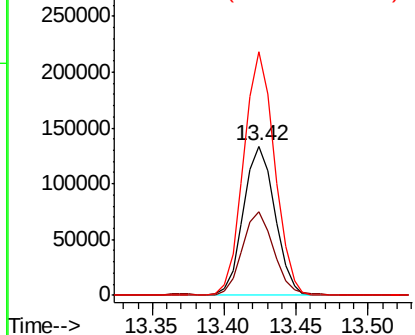
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.42 min Scan# 1917
Delta R.T. 0.00 min
Lab File: VY003356.D
Acq: 27 Jul 2020 15:13

Instrument :
MSVOA_Y
ClientSampleId :
8

Tot Ion	Ratio	Lower	Upper
152	100		
115	56.0	26.9	80.7
150	160.0	0.0	338.0



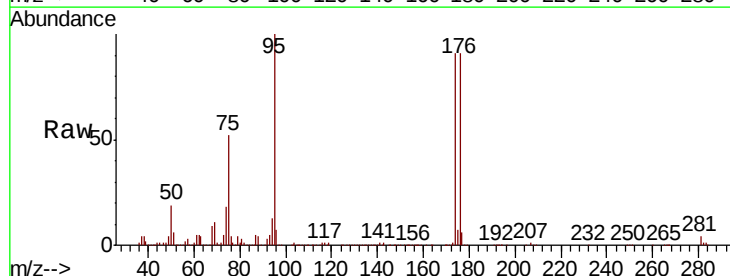
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



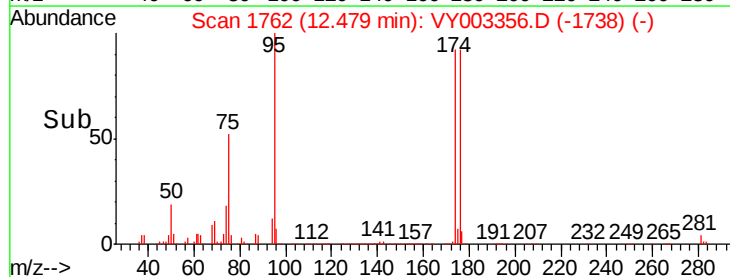
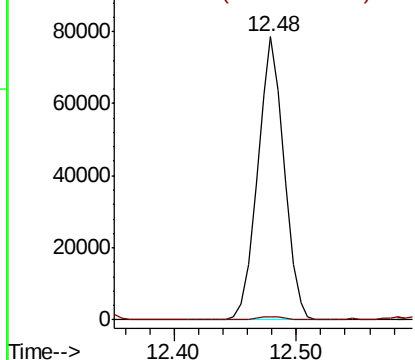
#76

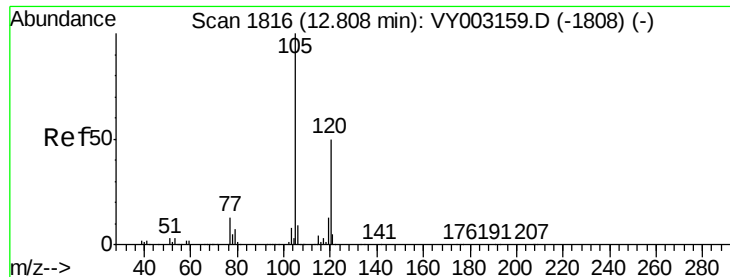
1,2,3-Trichloropropane
Concen: 65.716 ug/l
RT: 12.48 min Scan# 1762
Delta R.T. -0.15 min
Lab File: VY003356.D
Acq: 27 Jul 2020 15:13

Tgt Ion	Ratio	Lower	Upper
75	100		
77	1.4	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: 3.142 ug/l

RT: 12.81 min Scan# 1816

Delta R.T. 0.00 min

Lab File: VY003356.D

Acq: 27 Jul 2020 15:13

Instrument :

MSVOA_Y

ClientSampleId :

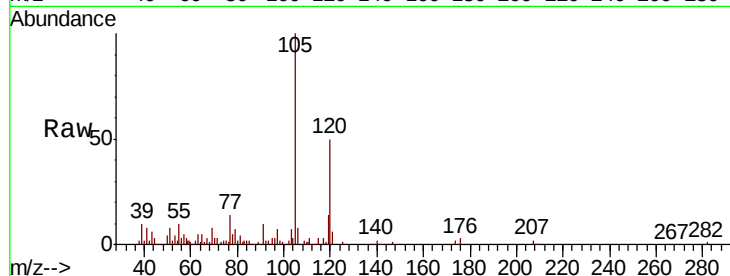
8

Tot Ion:105 Resp: 33893

Ion Ratio Lower Upper

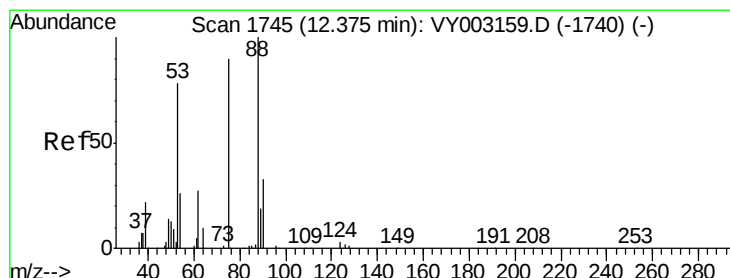
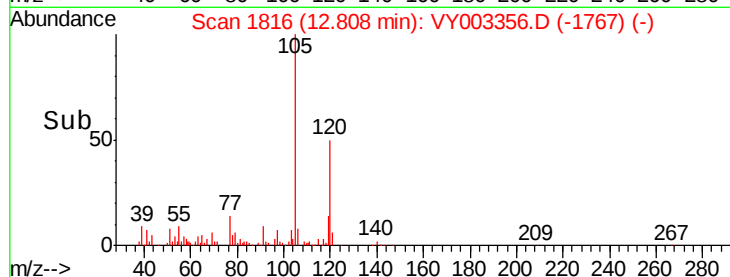
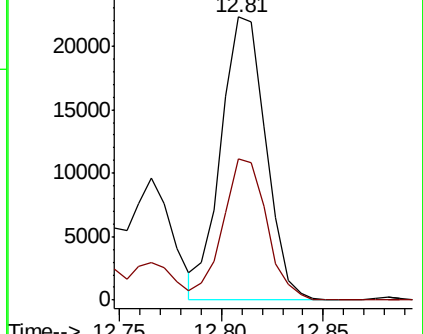
105 100

120 48.8 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: 127.895 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. 0.10 min

Lab File: VY003356.D

Acq: 27 Jul 2020 15:13

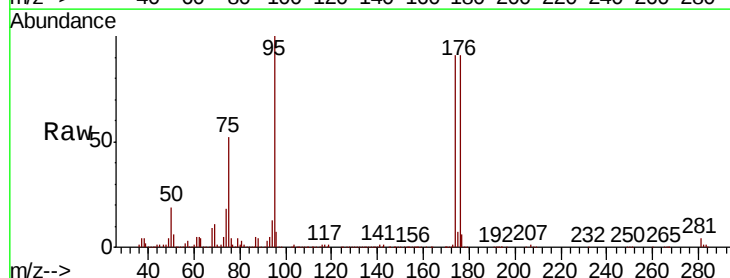
Tgt Ion: 75 Resp: 118136

Ion Ratio Lower Upper

75 100

53 0.3 72.0 108.0#

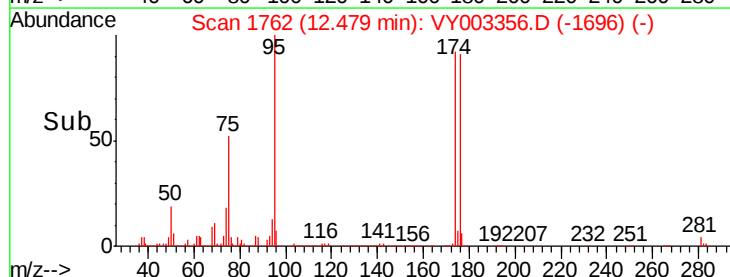
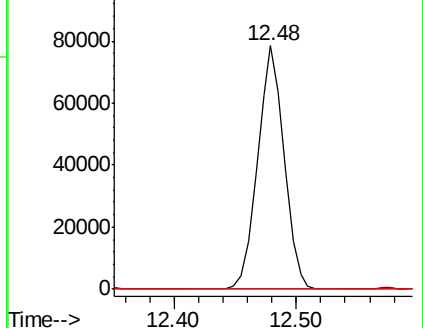
89 0.1 37.3 55.9#

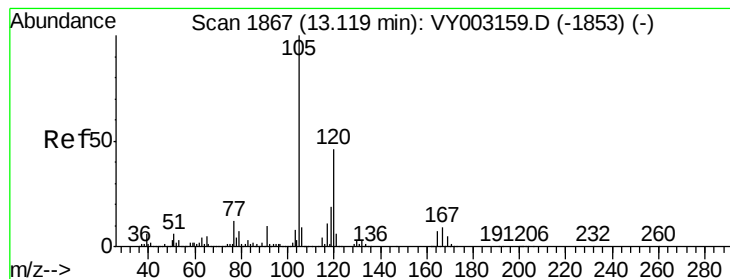


Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 53.00 (52.70 to 53.70): VY0

Ion 88.90 (88.60 to 89.60): VY0





#84

1,2,4-Trimethylbenzene

Concen: 2.656 ug/l

RT: 13.12 min Scan# 1867

Delta R.T. 0.00 min

Lab File: VY003356.D

Acq: 27 Jul 2020 15:13

Instrument :

MSVOA_Y

ClientSampled :

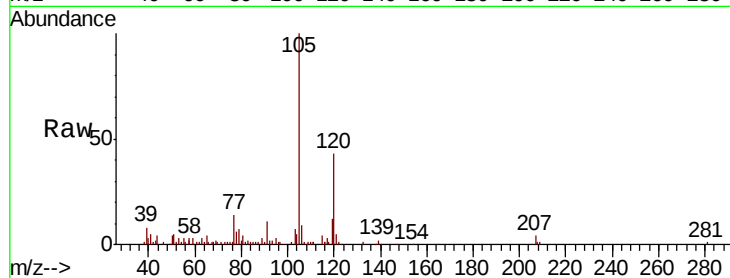
8

Tot Ion:105 Resp: 28825

Ion Ratio Lower Upper

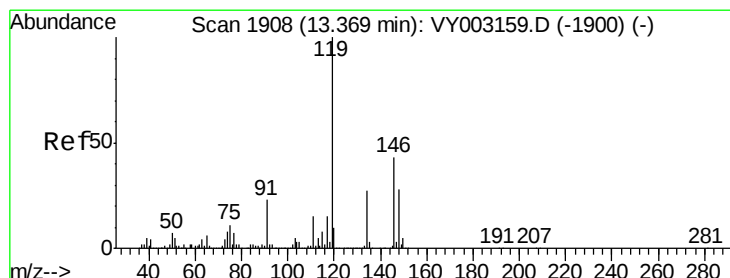
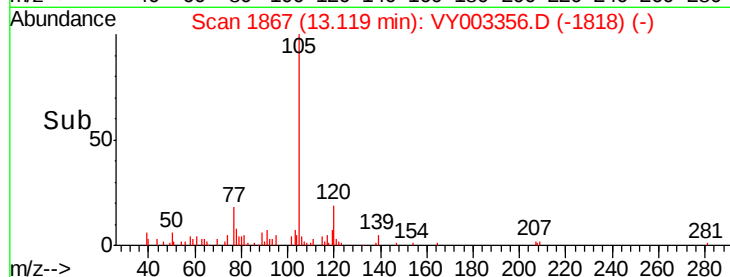
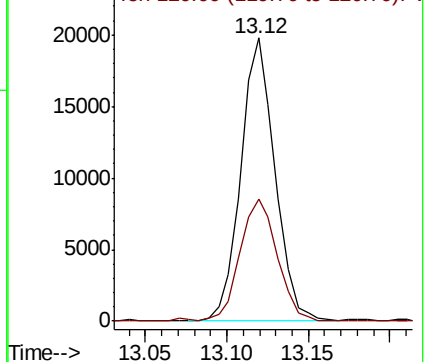
105 100

120 47.1 22.5 67.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#86

p-Isopropyltoluene

Concen: 1.645 ug/l

RT: 13.37 min Scan# 1908

Delta R.T. 0.00 min

Lab File: VY003356.D

Acq: 27 Jul 2020 15:13

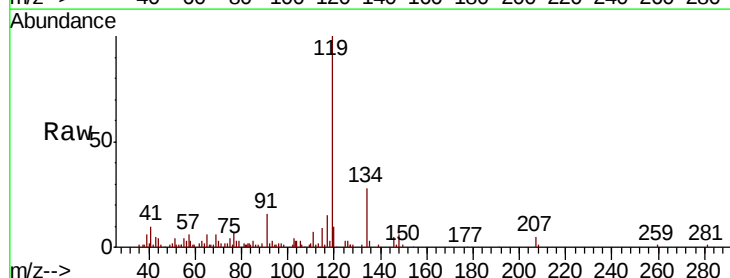
Tgt Ion:119 Resp: 20088

Ion Ratio Lower Upper

119 100

134 28.7 13.4 40.2

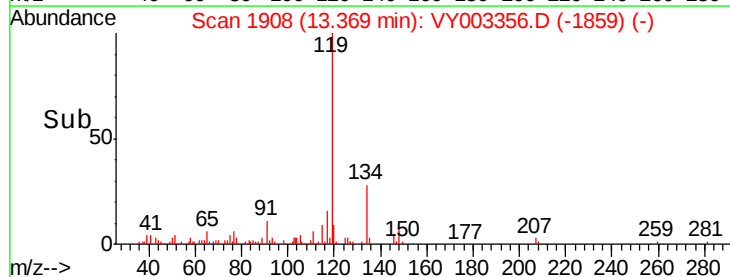
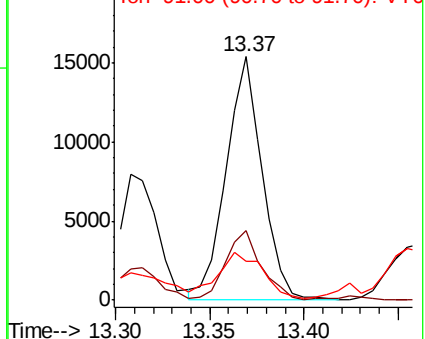
91 23.9 11.2 33.6

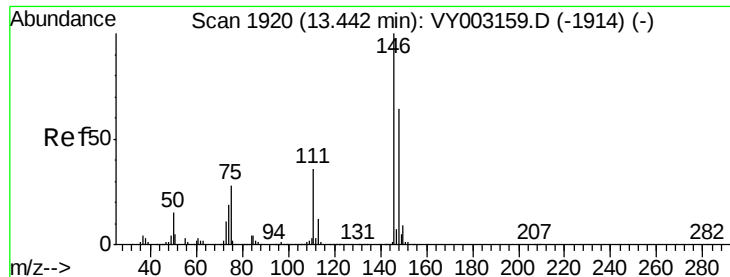


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VY0





#88

1,4-Dichlorobenzene

Concen: 1.406 ug/l

RT: 13.45 min Scan# 1921

Delta R.T. 0.01 min

Lab File: VY003356.D

Acq: 27 Jul 2020 15:13

Instrument :

MSVOA_Y

ClientSampleId :

8

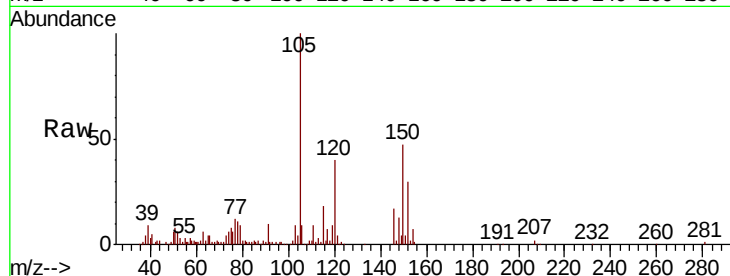
Tot Ion:146 Resp: 8682

Ion Ratio Lower Upper

146 100

111 72.0 18.4 55.0#

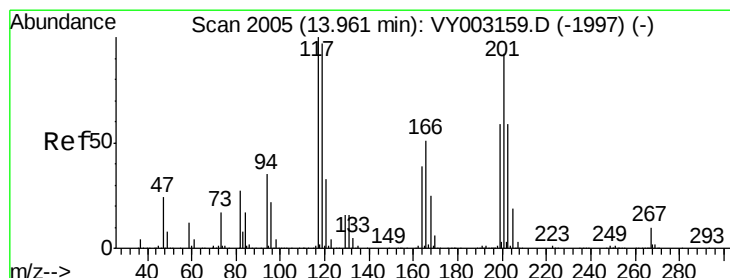
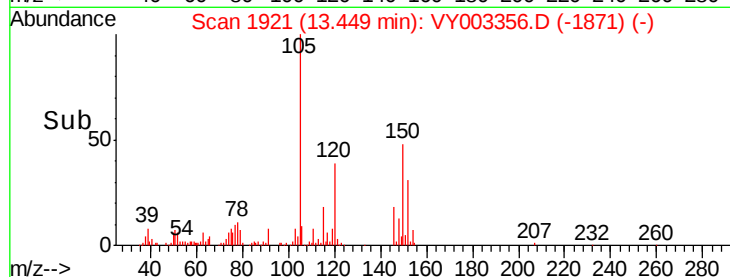
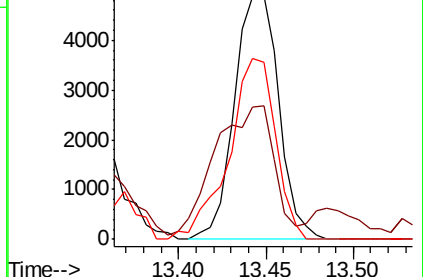
148 77.9 32.0 96.0



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



#90

Hexachloroethane

Concen: 2.127 ug/l

RT: 13.97 min Scan# 2007

Delta R.T. 0.01 min

Lab File: VY003356.D

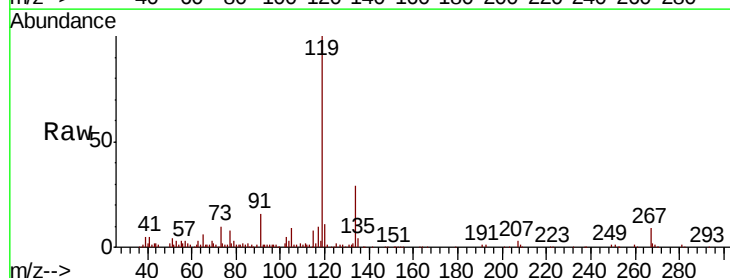
Acq: 27 Jul 2020 15:13

Tgt Ion:117 Resp: 4731

Ion Ratio Lower Upper

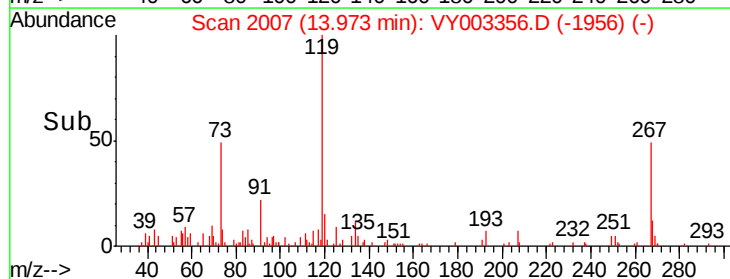
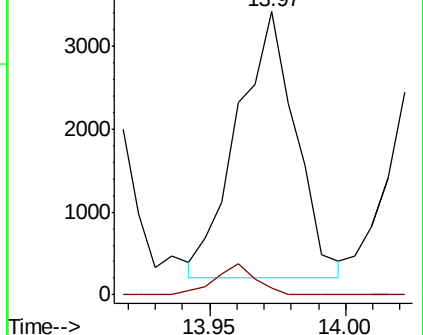
117 100

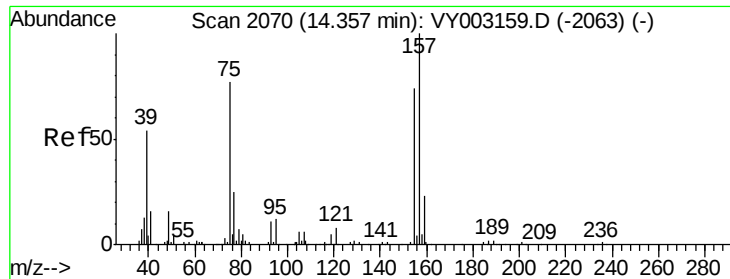
201 8.2 45.1 135.3#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

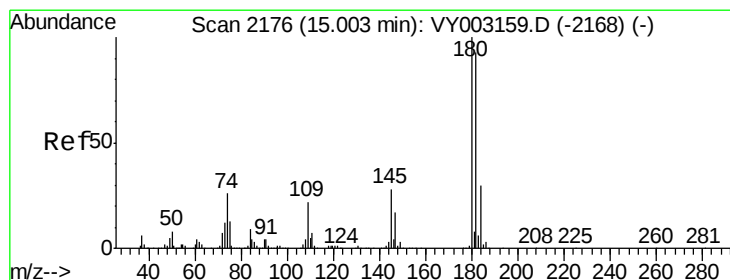
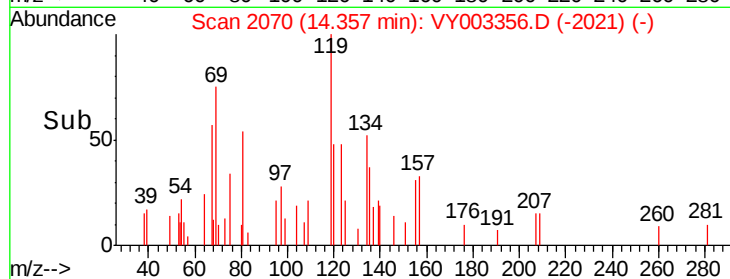
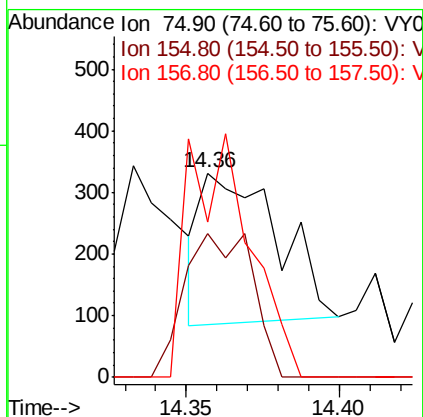
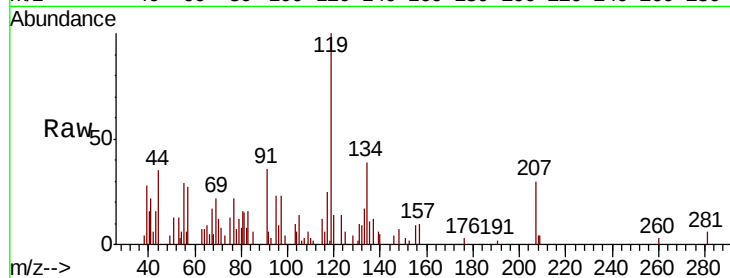




#92
 1,2-Dibromo-3-Chloropropane
 Concen: 1.041 ug/l
 RT: 14.36 min Scan# 2070
 Delta R.T. 0.00 min
 Lab File: VY003356.D
 Acq: 27 Jul 2020 15:13

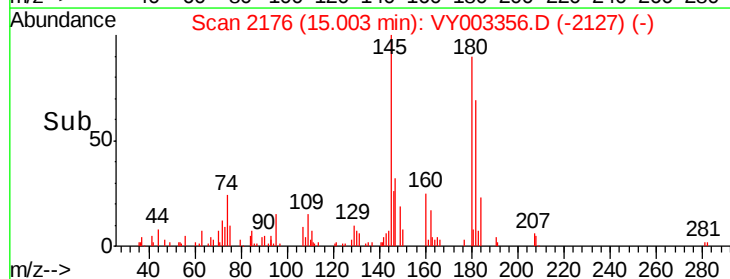
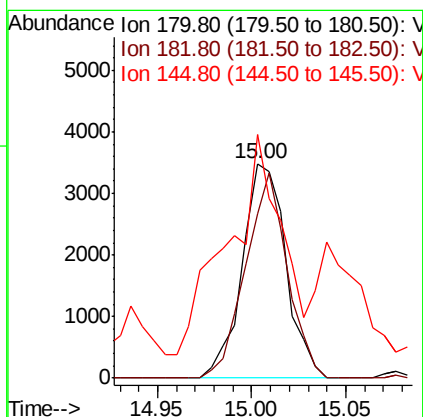
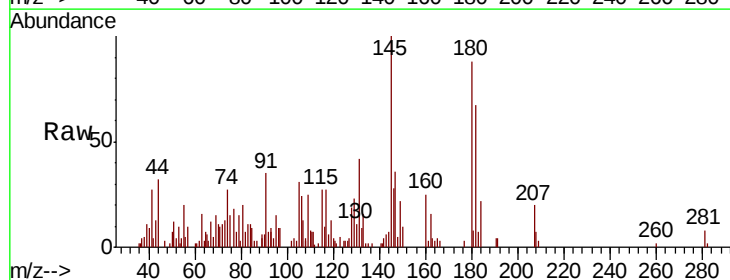
Instrument :
 MSVOA_Y
 ClientSampleId :
 8

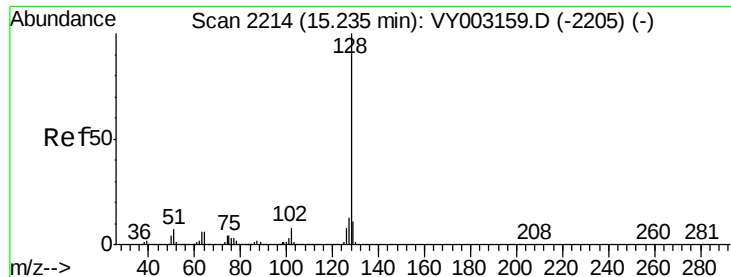
Tot Ion: 75 Resp: 422
 Ion Ratio Lower Upper
 75 100
 155 85.3 48.1 144.3
 157 131.0 61.9 185.6



#93
 1,2,4-Trichlorobenzene
 Concen: 1.434 ug/l
 RT: 15.00 min Scan# 2176
 Delta R.T. 0.00 min
 Lab File: VY003356.D
 Acq: 27 Jul 2020 15:13

Tgt Ion: 180 Resp: 5586
 Ion Ratio Lower Upper
 180 100
 182 91.4 47.3 142.0
 145 146.0 13.7 41.1#

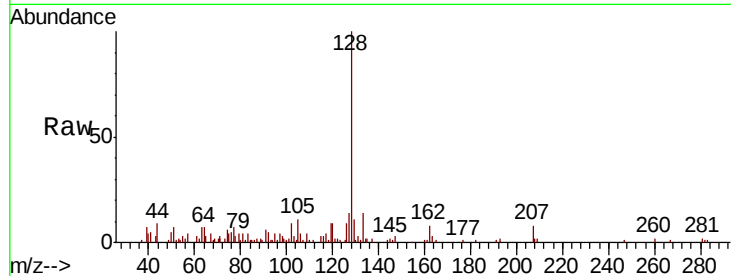




#95
Naphthalene
Concen: 2.830 ug/l
RT: 15.23 min Scan# 2214
Delta R.T. 0.00 min
Lab File: VY003356.D
Acq: 27 Jul 2020 15:13

Instrument :
MSVOA_Y
ClientSampleId :
8

Tot Ion	Ratio	Lower	Upper
128	100		
127	14.2	10.9	16.3
129	12.2	9.0	13.6

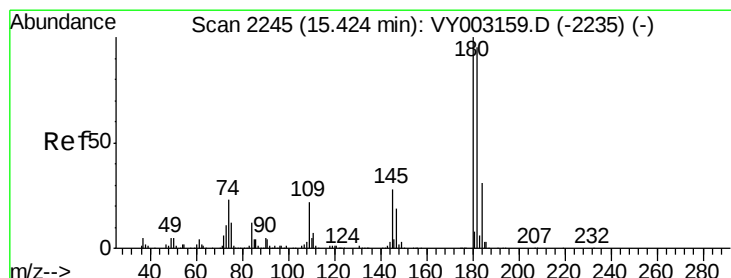
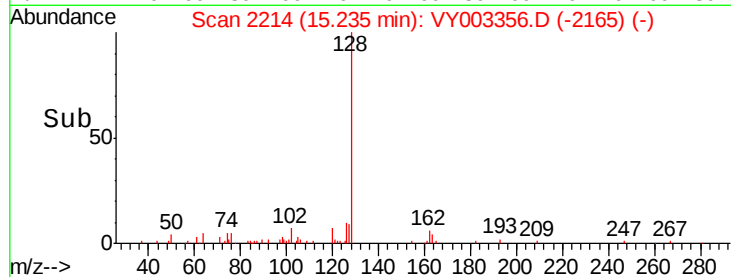
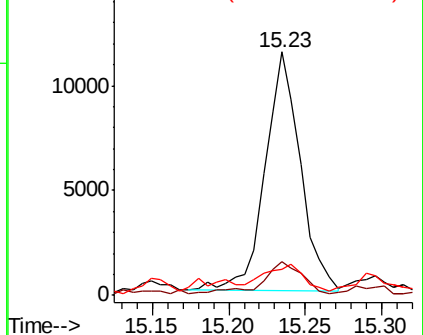


Abundance

Ion 128.00 (127.70 to 128.70): V

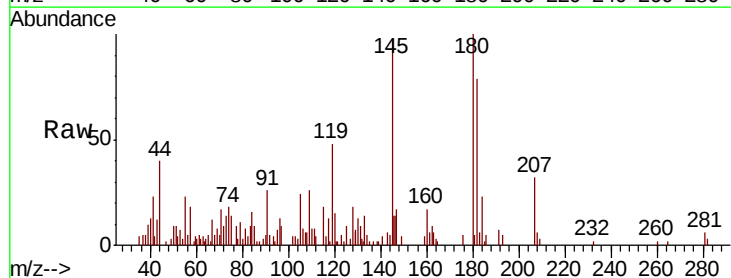
Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96
1,2,3-Trichlorobenzene
Concen: 2.111 ug/l
RT: 15.43 min Scan# 2246
Delta R.T. 0.01 min
Lab File: VY003356.D
Acq: 27 Jul 2020 15:13

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.6	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

