

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081921\
 Data File : VY005771.D
 Acq On : 19 Aug 2021 15:58
 Operator : SY/MD
 Sample : M3414-10
 Misc : 5.08G/5ML/MSVOA_Y/SOIL
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Aug 20 06:57:08 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y080221S.M
 Quant Title : SW846 8260
 QLast Update : Tue Aug 03 04:52:05 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

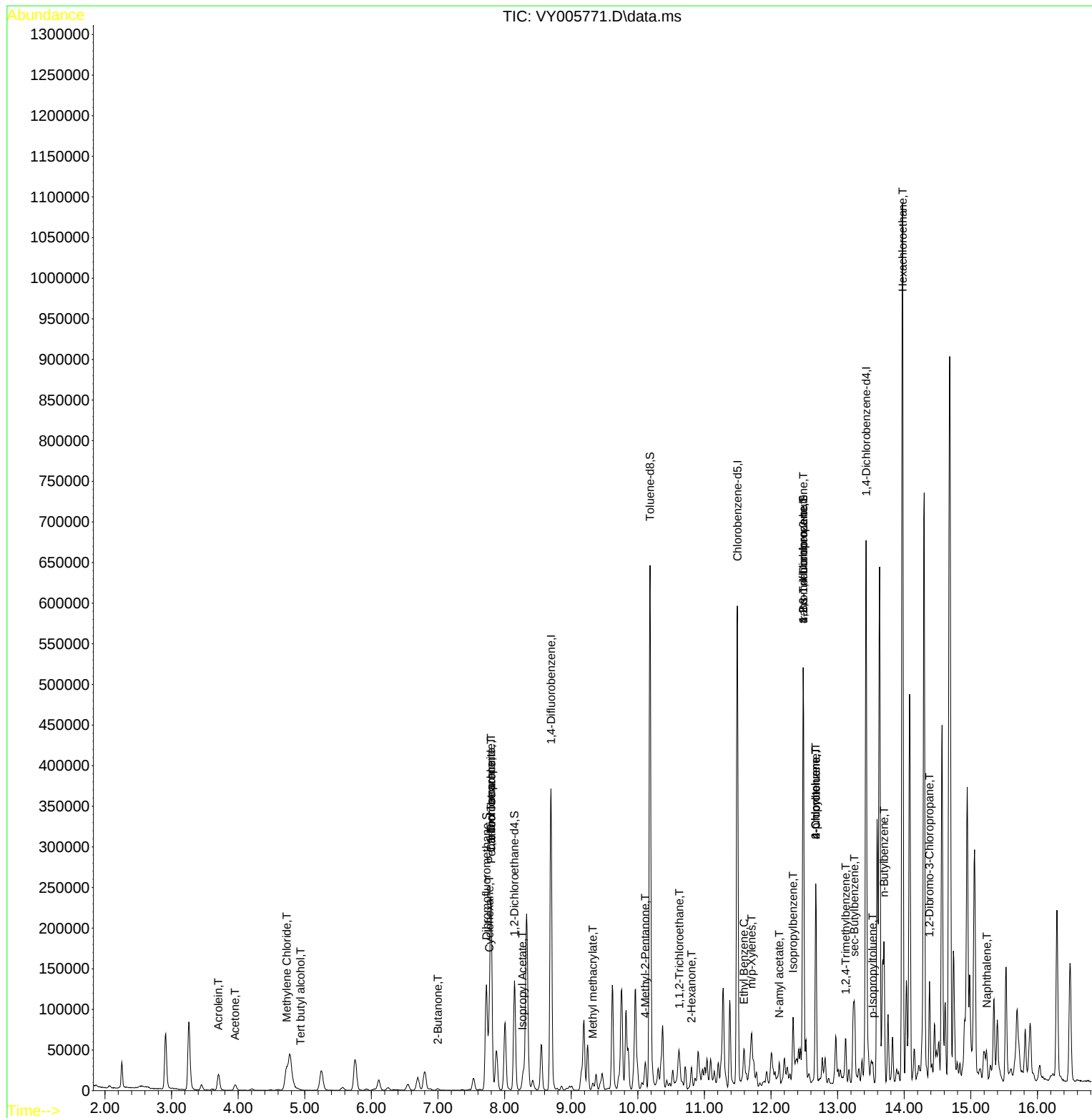
Internal Standards						
1) Pentafluorobenzene	7.801	168	174915	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.697	114	298436	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.496	117	310005	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.428	152	163902	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.149	65	104625	59.091	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 118.180%	
35) Dibromofluoromethane	7.728	113	84919	50.823	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 101.640%	
50) Toluene-d8	10.185	98	389783	55.624	ug/l	0.00
Spiked Amount	50.000	Range	49 - 140	Recovery	= 111.240%	
62) 4-Bromofluorobenzene	12.483	95	141418	60.942	ug/l	0.00
Spiked Amount	50.000	Range	25 - 144	Recovery	= 121.880%	
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	4.936	59	282	1.611	ug/l #	73
13) Acrolein	3.704	56	880	8.333	ug/l #	1
16) Acetone	3.954	43	11109	24.885	ug/l	96
20) Methylene Chloride	4.728	84	15625	3.148	ug/l	94
25) 2-Butanone	6.996	43	2187	3.314	ug/l #	83
31) Cyclohexane	7.771	56	18173	5.984	ug/l #	54
36) 1,1-Dichloropropene	7.795	75	12435	4.442	ug/l #	50
38) Carbon Tetrachloride	7.795	117	16508	5.426	ug/l #	16
43) Isopropyl Acetate	8.270	43	5712	1.779	ug/l #	52
48) Methyl methacrylate	9.325	41	2270	1.565	ug/l #	33
51) 4-Methyl-2-Pentanone	10.112	43	3872	2.290	ug/l #	71
55) 1,1,2-Trichloroethane	10.624	97	13835	8.624	ug/l #	22
59) 2-Hexanone	10.807	43	9894	8.280	ug/l #	29
67) Ethyl Benzene	11.593	91	20856	1.844	ug/l	97
68) m/p-Xylenes	11.709	106	16465	3.747	ug/l	94
73) Isopropylbenzene	12.331	105	45932	4.015	ug/l	100
74) N-amyl acetate	12.123	43	7388	2.145	ug/l #	58
76) 1,2,3-Trichloropropane	12.483	75	77914	45.872	ug/l #	100
78) n-propylbenzene	12.672	91	176495	12.989	ug/l	98
79) 2-Chlorotoluene	12.672	91	176495	23.131	ug/l #	40
81) trans-1,4-Dichloro-2-b...	12.483	75	77914	92.473	ug/l #	11
82) 4-Chlorotoluene	12.672	91	176495	22.356	ug/l #	40
84) 1,2,4-Trimethylbenzene	13.123	105	26991	2.881	ug/l	98
85) sec-Butylbenzene	13.251	105	56249	4.577	ug/l #	55
86) p-Isopropyltoluene	13.526	119	12007	1.138	ug/l	92
89) n-Butylbenzene	13.696	91	95154	9.955	ug/l #	81
90) Hexachloroethane	13.977	117	55735	29.383	ug/l #	3
92) 1,2-Dibromo-3-Chloropr...	14.379	75	640	1.534	ug/l #	1
95) Naphthalene	15.239	128	24653	3.758	ug/l #	92

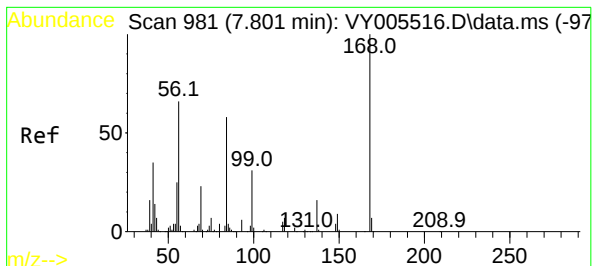
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.801 min Scan# 981

Delta R.T. 0.000 min

Lab File: VY005771.D

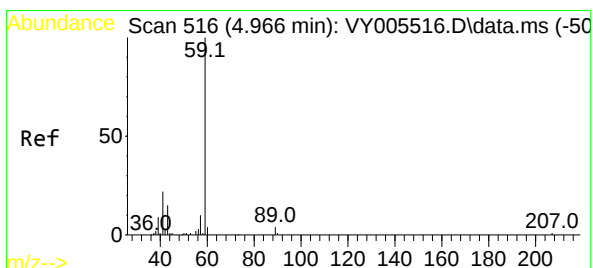
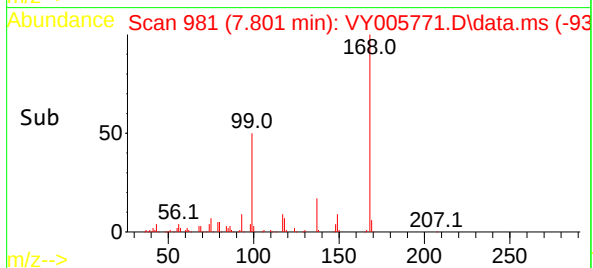
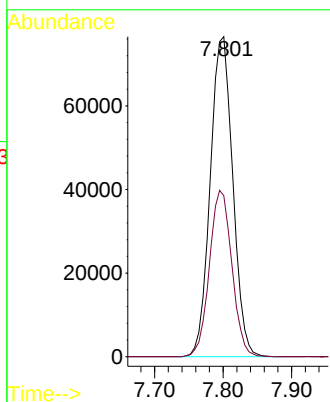
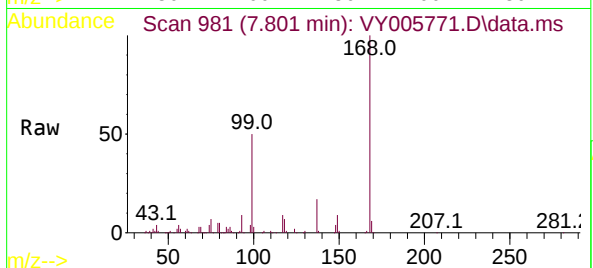
Acq: 19 Aug 2021 15:58

Tgt Ion:168 Resp: 174915

Ion Ratio Lower Upper

168 100

99 50.3 38.9 58.3



#11

Tert butyl alcohol

Concen: 1.611 ug/l

RT: 4.936 min Scan# 511

Delta R.T. -0.031 min

Lab File: VY005771.D

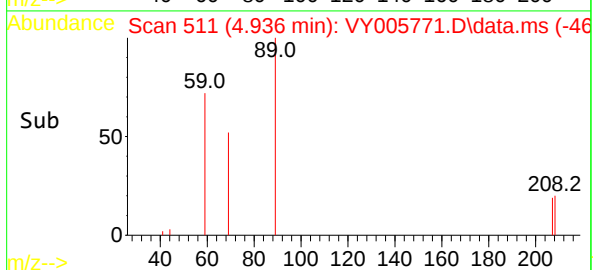
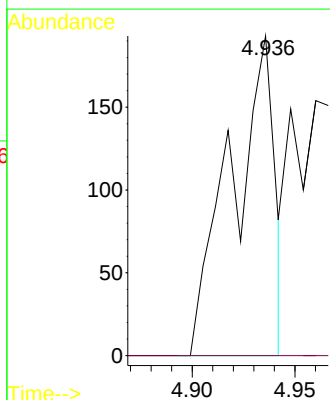
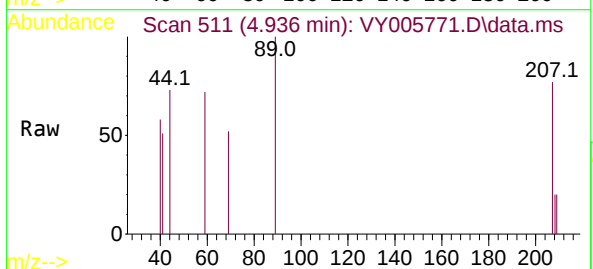
Acq: 19 Aug 2021 15:58

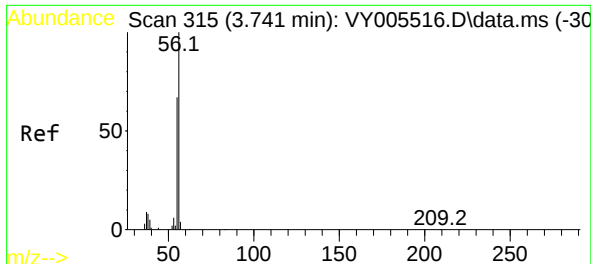
Tgt Ion: 59 Resp: 282

Ion Ratio Lower Upper

59 100

57 0.0 8.0 12.0#

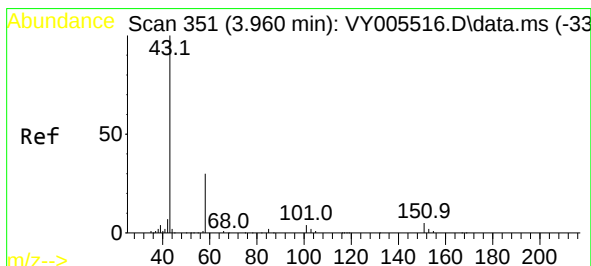
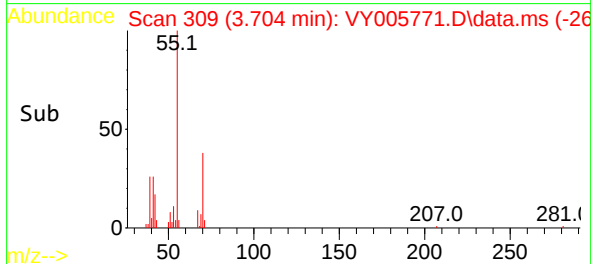
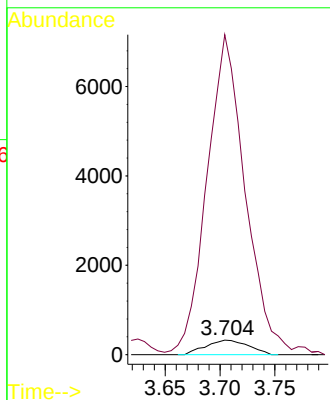
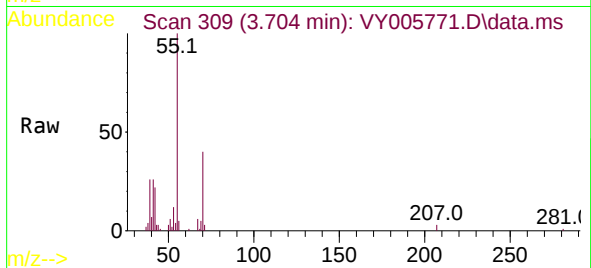




#13
Acrolein
Concen: 8.333 ug/l
RT: 3.704 min Scan# 309
Delta R.T. -0.037 min
Lab File: VY005771.D
Acq: 19 Aug 2021 15:58

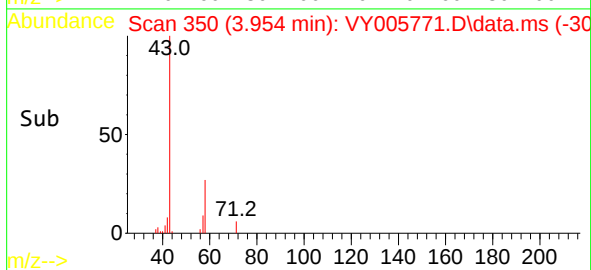
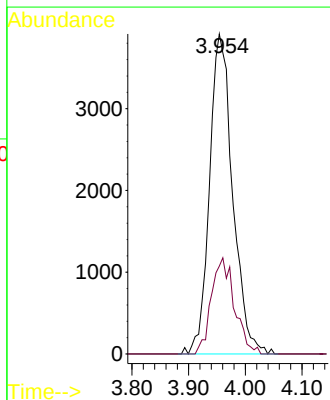
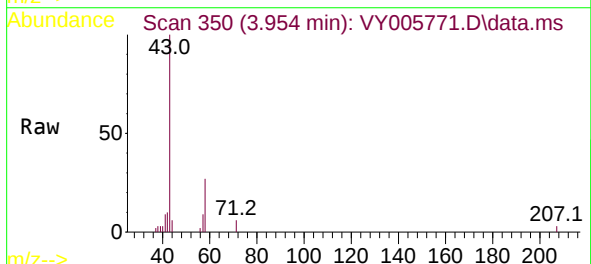
Instrument :
MSVOA_Y
ClientSampleId :

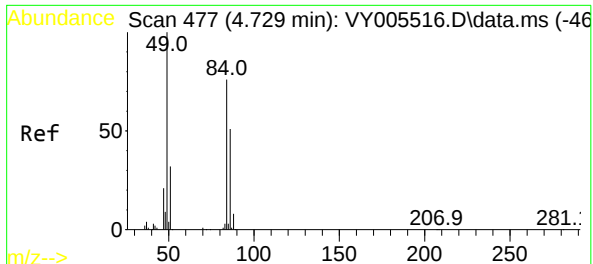
Tgt Ion: 56 Resp: 880
Ion Ratio Lower Upper
56 100
55 1992.7 56.5 84.7#



#16
Acetone
Concen: 24.885 ug/l
RT: 3.954 min Scan# 350
Delta R.T. -0.006 min
Lab File: VY005771.D
Acq: 19 Aug 2021 15:58

Tgt Ion: 43 Resp: 11109
Ion Ratio Lower Upper
43 100
58 27.4 23.8 35.6



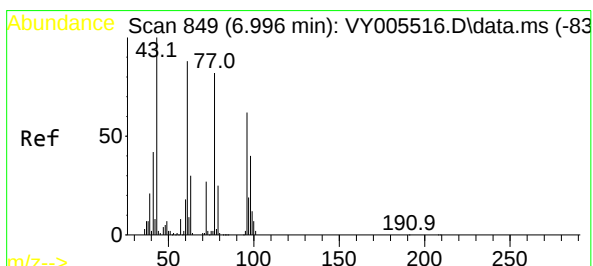
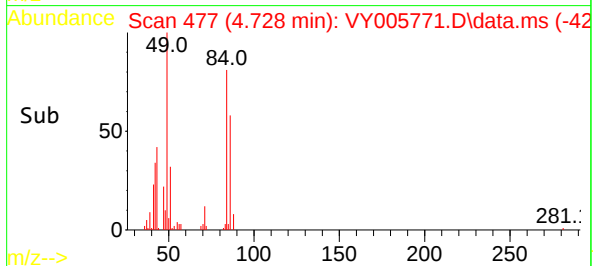
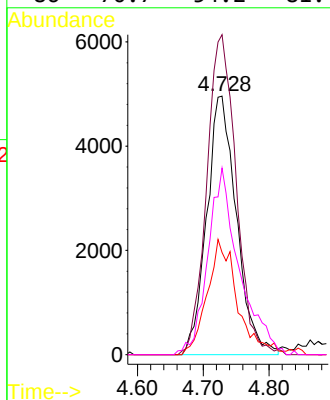
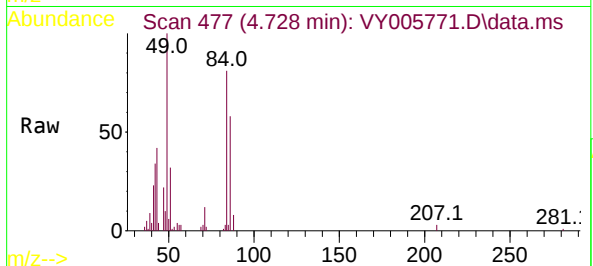


#20
Methylene Chloride
Concen: 3.148 ug/l
RT: 4.728 min Scan# 477
Delta R.T. -0.001 min
Lab File: VY005771.D
Acq: 19 Aug 2021 15:58

Instrument :
MSVOA_Y
ClientSampled :

Tgt Ion: 84 Resp: 15625

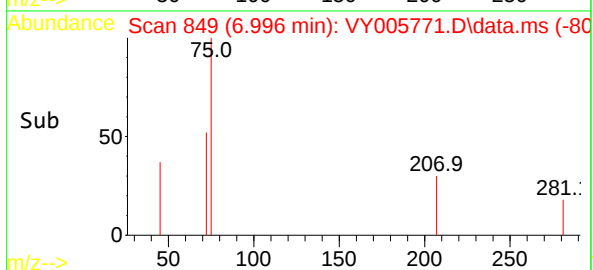
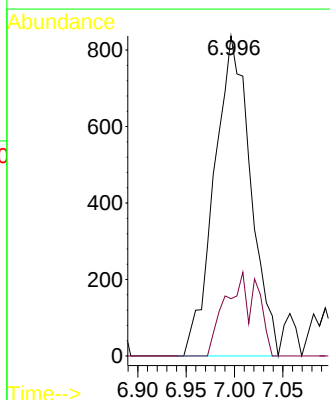
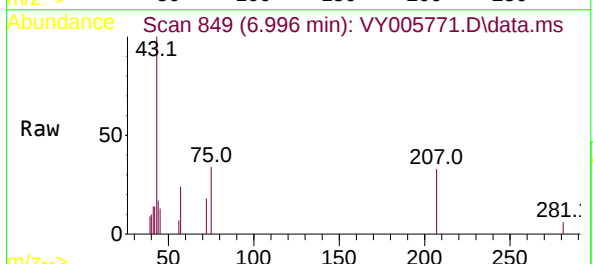
Ion	Ratio	Lower	Upper
84	100		
49	123.8	105.8	158.6
51	39.5	33.4	50.2
86	70.7	54.2	81.4

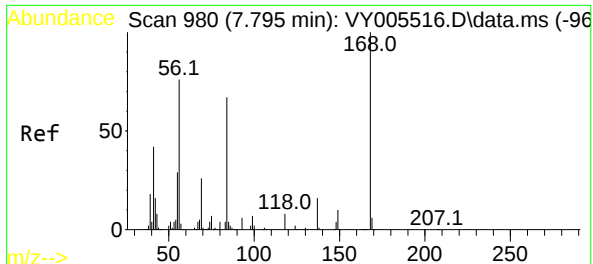


#25
2-Butanone
Concen: 3.314 ug/l
RT: 6.996 min Scan# 849
Delta R.T. -0.000 min
Lab File: VY005771.D
Acq: 19 Aug 2021 15:58

Tgt Ion: 43 Resp: 2187

Ion	Ratio	Lower	Upper
43	100		
72	17.9	21.4	32.2#

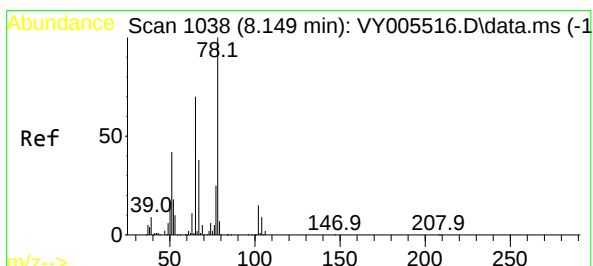
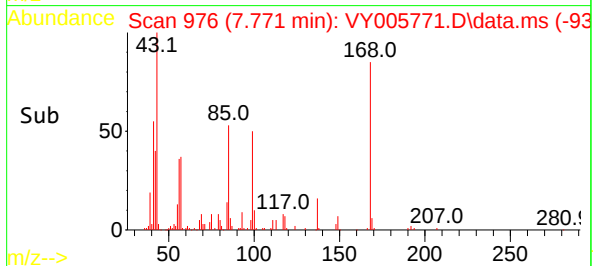
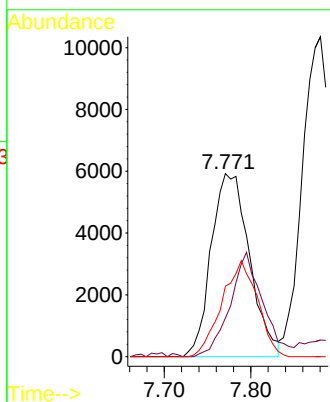
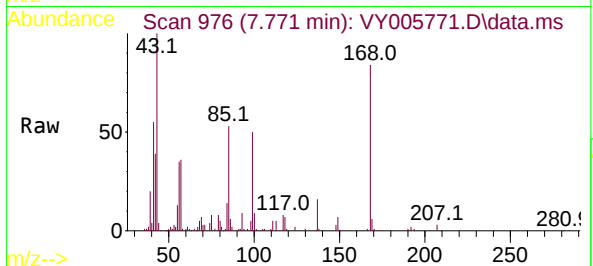




#31
Cyclohexane
Concen: 5.984 ug/l
RT: 7.771 min Scan# 976
Delta R.T. -0.025 min
Lab File: VY005771.D
Acq: 19 Aug 2021 15:58

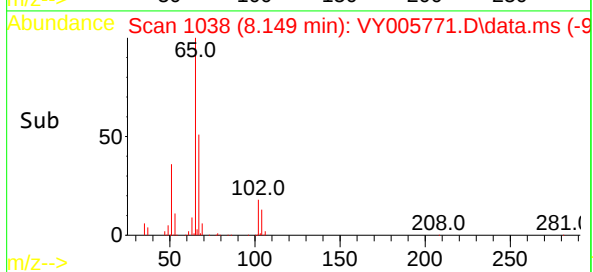
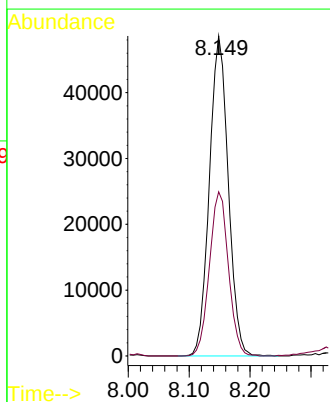
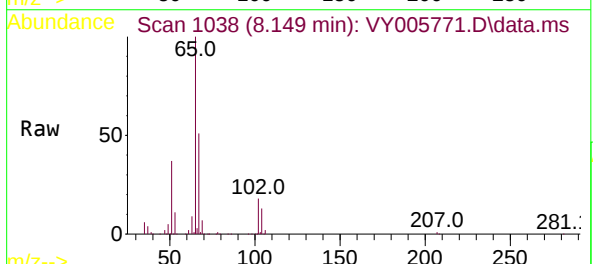
Instrument :
MSVOA_Y
ClientSampleId :

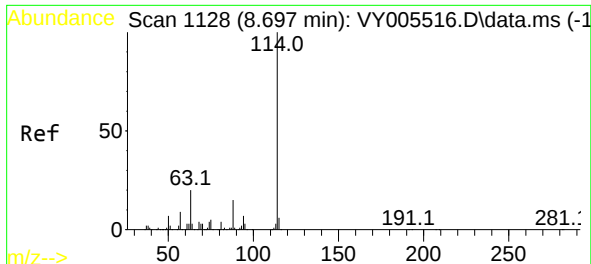
Tgt Ion: 56 Resp: 18173
Ion Ratio Lower Upper
56 100
69 20.1 27.7 41.5#
84 38.5 70.9 106.3#



#33
1,2-Dichloroethane-d4
Concen: 59.091 ug/l
RT: 8.149 min Scan# 1038
Delta R.T. -0.000 min
Lab File: VY005771.D
Acq: 19 Aug 2021 15:58

Tgt Ion: 65 Resp: 104625
Ion Ratio Lower Upper
65 100
67 51.7 0.0 103.4

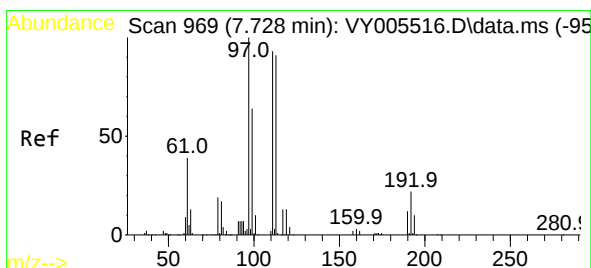
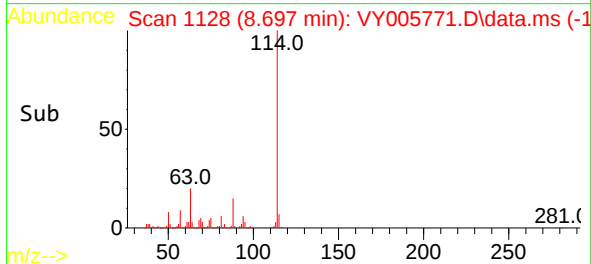
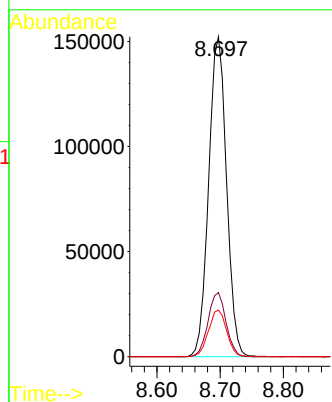
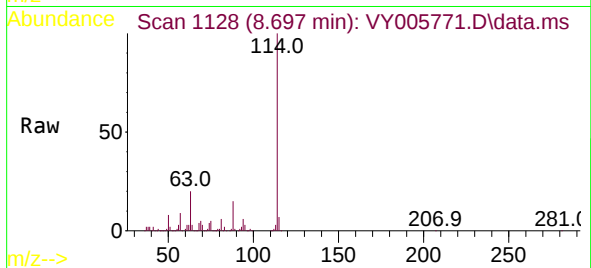




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.697 min Scan# 1128
Delta R.T. -0.000 min
Lab File: VY005771.D
Acq: 19 Aug 2021 15:58

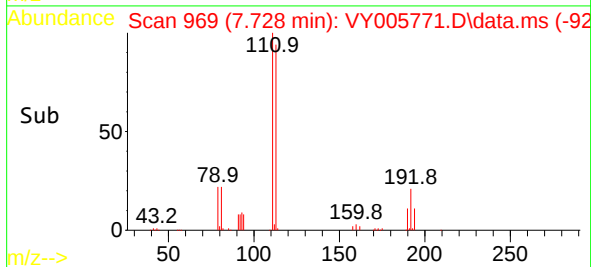
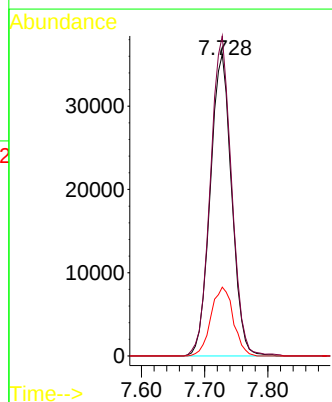
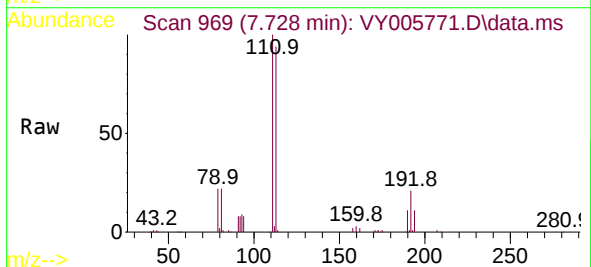
Instrument :
MSVOA_Y
ClientSampled :

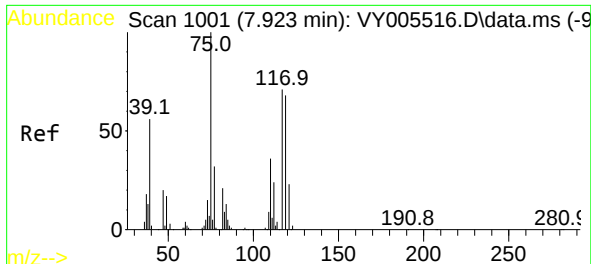
Tgt Ion:114 Resp: 298436
Ion Ratio Lower Upper
114 100
63 20.0 0.0 39.2
88 14.5 0.0 30.8



#35
Dibromofluoromethane
Concen: 50.823 ug/l
RT: 7.728 min Scan# 969
Delta R.T. -0.000 min
Lab File: VY005771.D
Acq: 19 Aug 2021 15:58

Tgt Ion:113 Resp: 84919
Ion Ratio Lower Upper
113 100
111 105.5 81.9 122.9
192 23.8 19.2 28.8



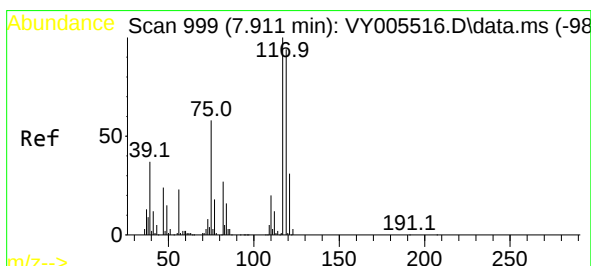
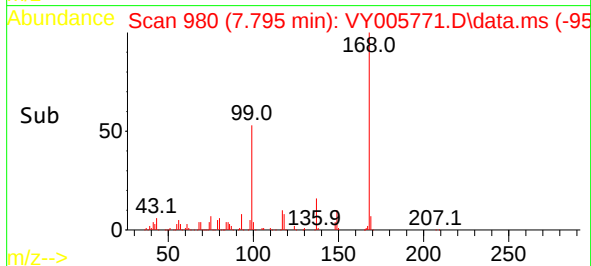
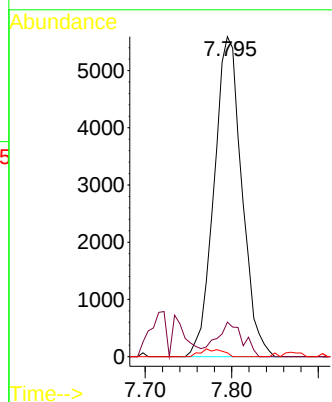
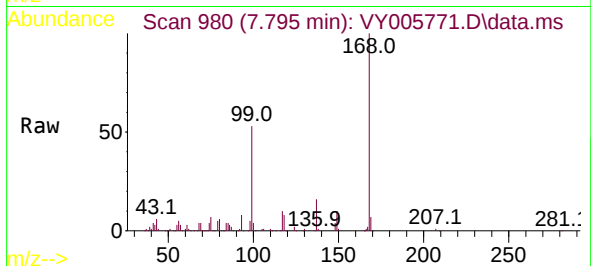


#36

1,1-Dichloropropene
Concen: 4.442 ug/l
RT: 7.795 min Scan# 980
Delta R.T. -0.128 min
Lab File: VY005771.D
Acq: 19 Aug 2021 15:58

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ClientSampled :

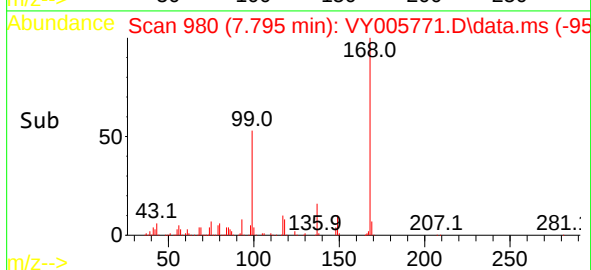
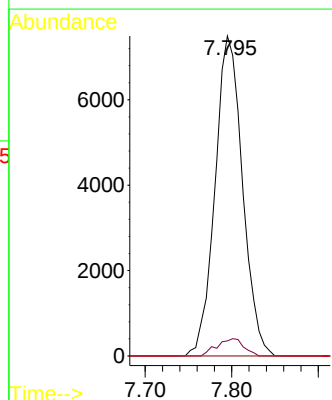
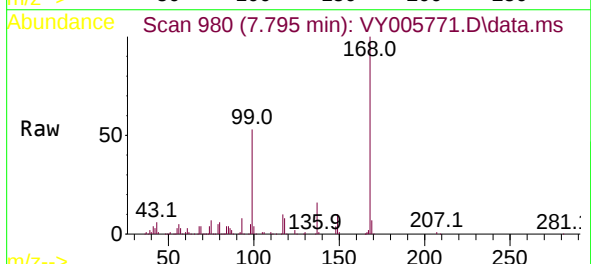
Tgt Ion: 75 Resp: 12435
Ion Ratio Lower Upper
75 100
110 10.2 18.1 54.1#
77 0.0 25.1 37.7#

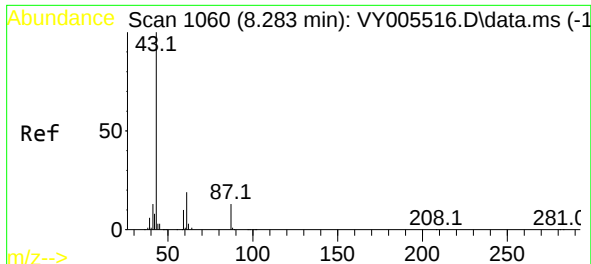


#38

Carbon Tetrachloride
Concen: 5.426 ug/l
RT: 7.795 min Scan# 980
Delta R.T. -0.116 min
Lab File: VY005771.D
Acq: 19 Aug 2021 15:58

Tgt Ion: 117 Resp: 16508
Ion Ratio Lower Upper
117 100
119 4.7 75.4 113.0#
121 0.0 25.1 37.7#





#43

Isopropyl Acetate

Concen: 1.779 ug/l

RT: 8.270 min Scan# 1058

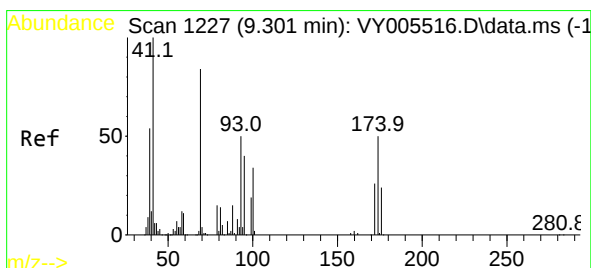
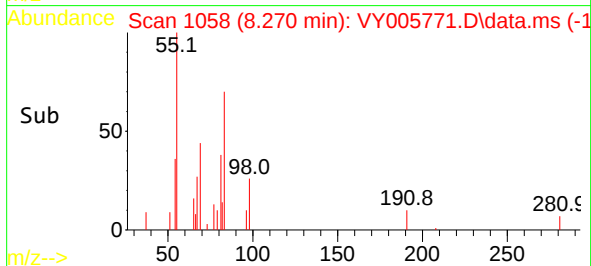
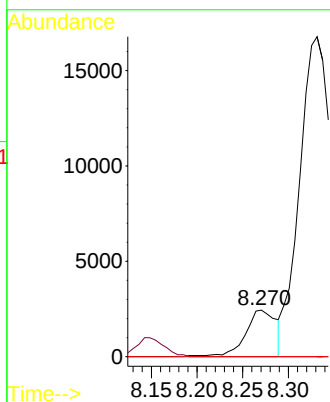
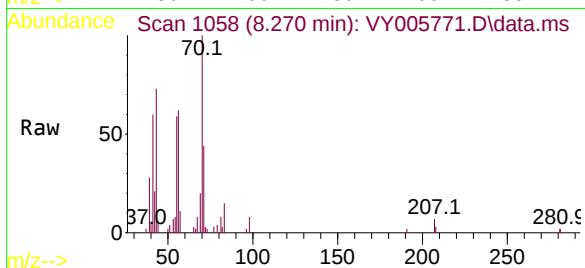
Delta R.T. -0.012 min

Lab File: VY005771.D

Acq: 19 Aug 2021 15:58

Instrument :
MSVOA_Y
ClientSampleId :

Tgt Ion: 43	Resp: 5712
Ion Ratio	Lower Upper
43 100	
61 0.0	23.0 34.6#
87 0.0	10.6 16.0#



#48

Methyl methacrylate

Concen: 1.565 ug/l

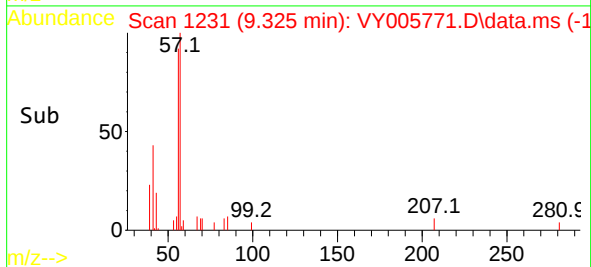
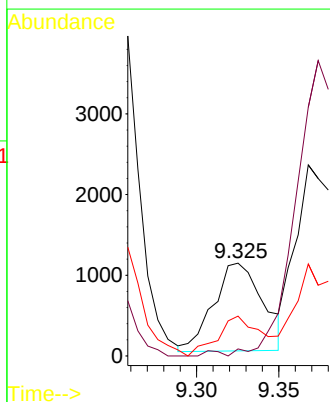
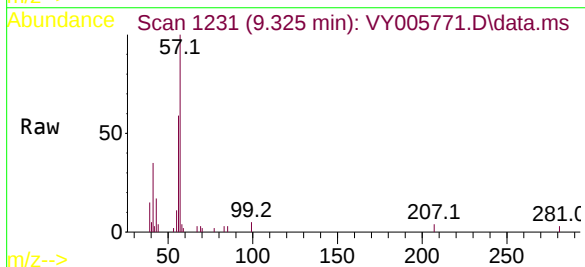
RT: 9.325 min Scan# 1231

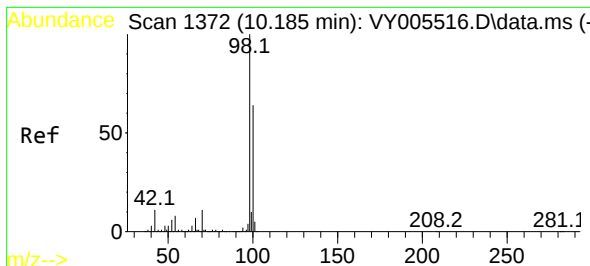
Delta R.T. 0.024 min

Lab File: VY005771.D

Acq: 19 Aug 2021 15:58

Tgt Ion: 41	Resp: 2270
Ion Ratio	Lower Upper
41 100	
69 0.0	69.0 103.4#
39 37.4	46.0 69.0#

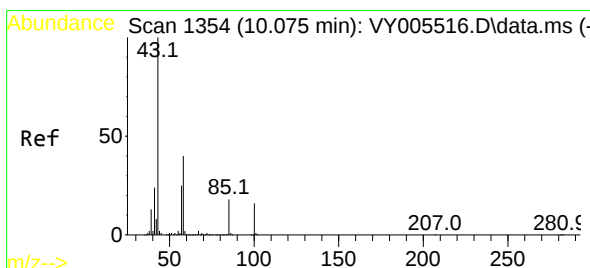
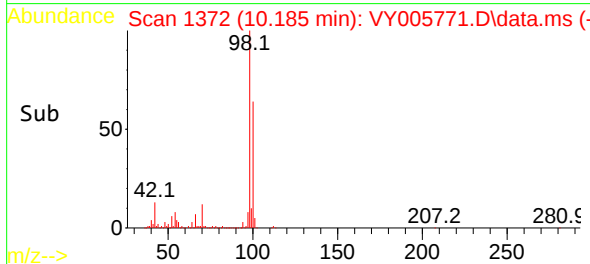
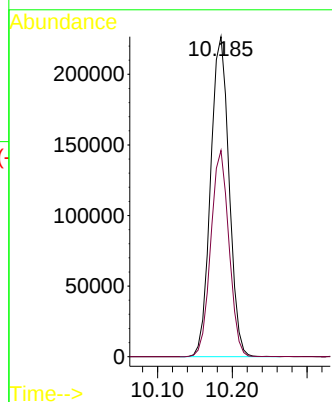
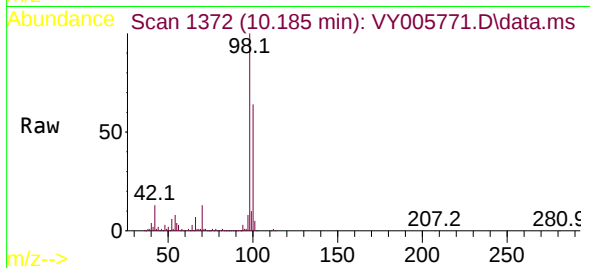




#50
Toluene-d8
Concen: 55.624 ug/l
RT: 10.185 min Scan# 1372
Delta R.T. -0.000 min
Lab File: VY005771.D
Acq: 19 Aug 2021 15:58

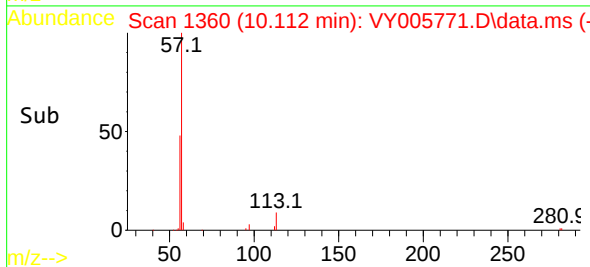
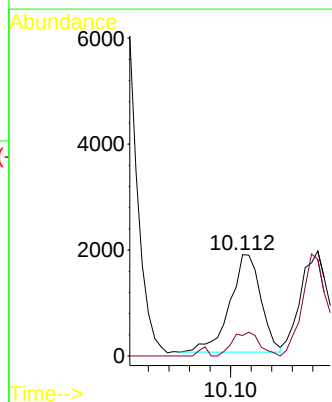
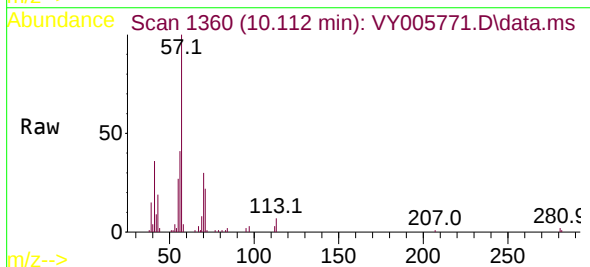
Instrument :
MSVOA_Y
ClientSampleId :

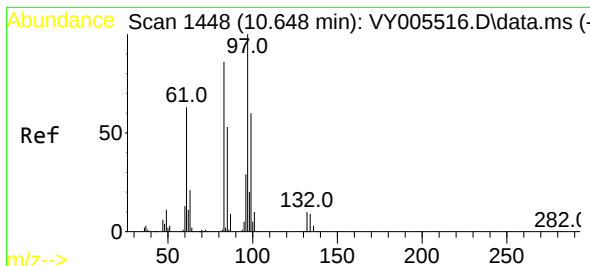
Tgt Ion: 98 Resp: 389783
Ion Ratio Lower Upper
98 100
100 63.3 51.3 76.9



#51
4-Methyl-2-Pentanone
Concen: 2.290 ug/l
RT: 10.112 min Scan# 1360
Delta R.T. 0.036 min
Lab File: VY005771.D
Acq: 19 Aug 2021 15:58

Tgt Ion: 43 Resp: 3872
Ion Ratio Lower Upper
43 100
58 21.3 31.4 47.2#

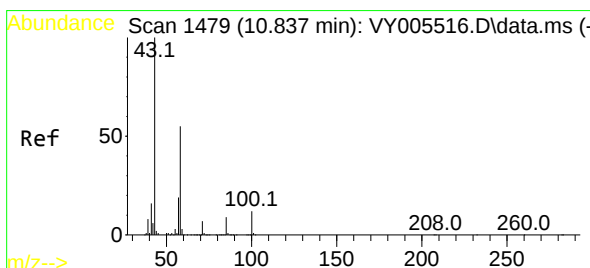
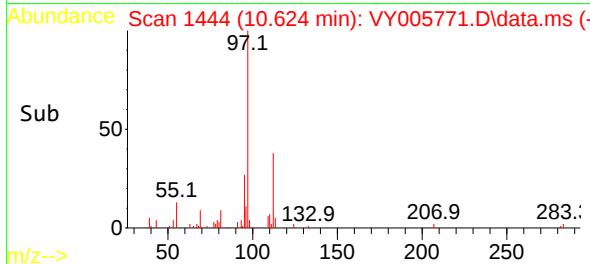
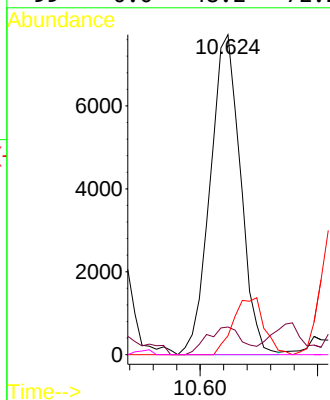
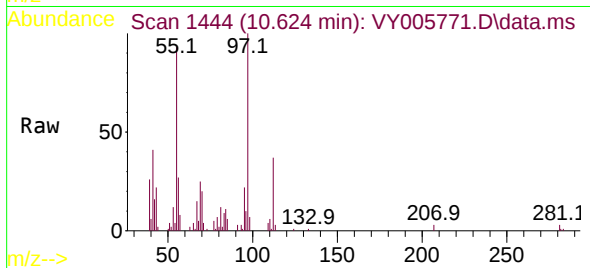




#55
1,1,2-Trichloroethane
Concen: 8.624 ug/l
RT: 10.624 min Scan# 1444
Delta R.T. -0.025 min
Lab File: VY005771.D
Acq: 19 Aug 2021 15:58

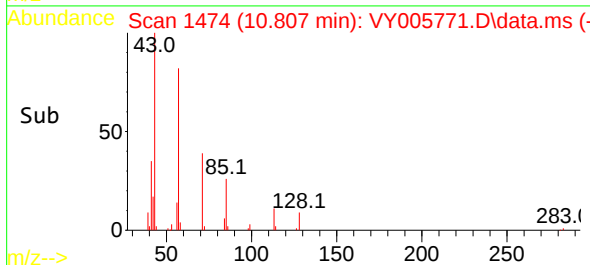
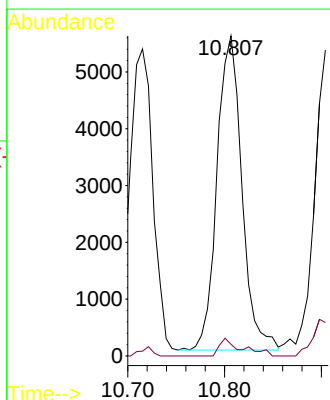
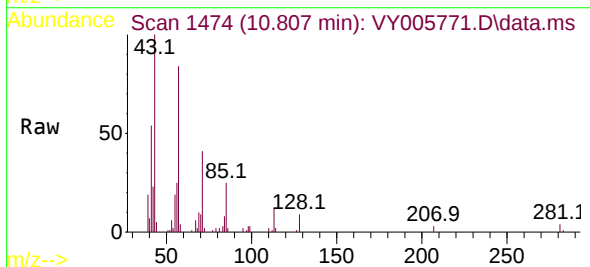
Instrument :
MSVOA_Y
ClientSampled :

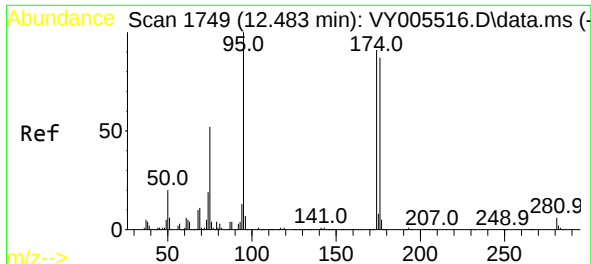
Tgt Ion: 97	Resp: 13835
Ion Ratio	Lower Upper
97 100	
83 8.7	68.7 103.1#
85 5.9	42.4 63.6#
99 0.0	48.2 72.2#



#59
2-Hexanone
Concen: 8.280 ug/l
RT: 10.807 min Scan# 1474
Delta R.T. -0.031 min
Lab File: VY005771.D
Acq: 19 Aug 2021 15:58

Tgt Ion: 43	Resp: 9894
Ion Ratio	Lower Upper
43 100	
58 3.4	27.1 81.2#

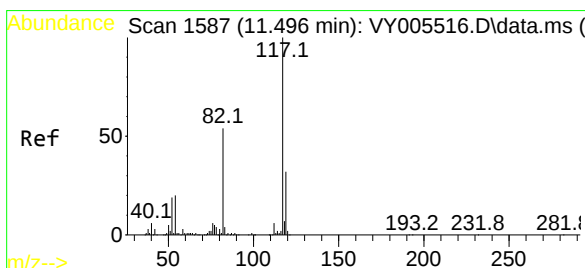
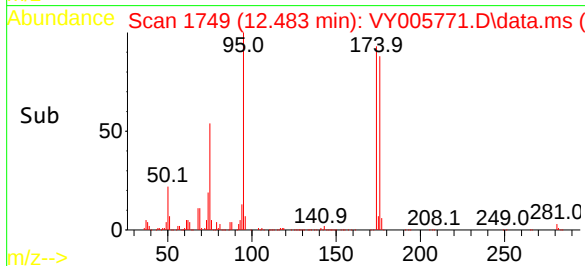
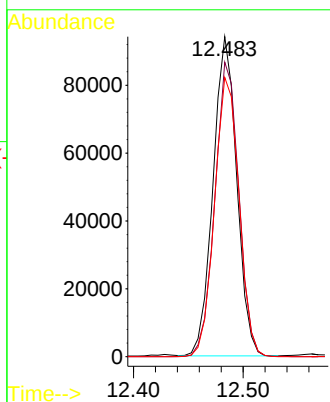
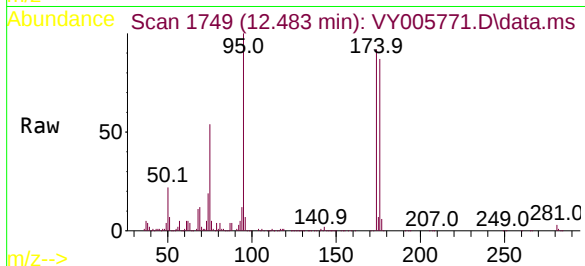




#62
4-Bromofluorobenzene
Concen: 60.942 ug/l
RT: 12.483 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VY005771.D
Acq: 19 Aug 2021 15:58

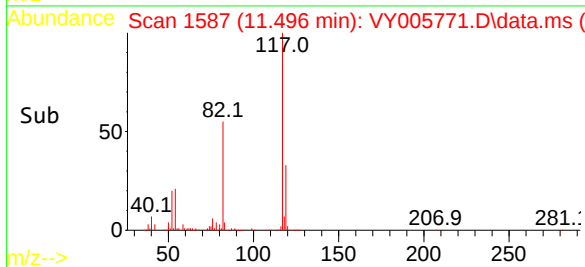
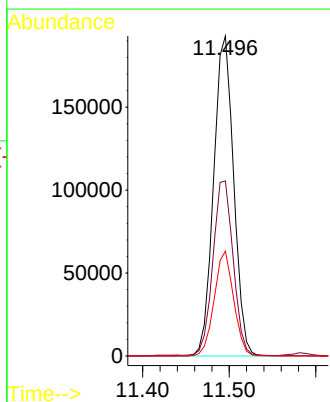
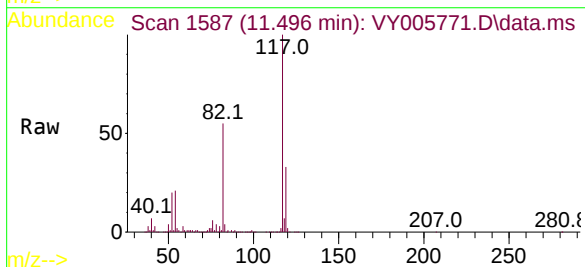
Instrument :
MSVOA_Y
ClientSampleId :

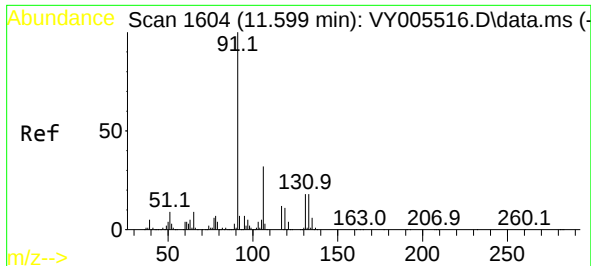
Tgt Ion: 95 Resp: 141418
Ion Ratio Lower Upper
95 100
174 93.0 0.0 191.4
176 90.2 0.0 183.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.496 min Scan# 1587
Delta R.T. -0.000 min
Lab File: VY005771.D
Acq: 19 Aug 2021 15:58

Tgt Ion: 117 Resp: 310005
Ion Ratio Lower Upper
117 100
82 54.5 43.5 65.3
119 32.8 25.5 38.3

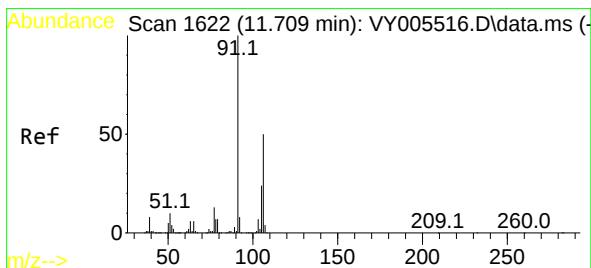
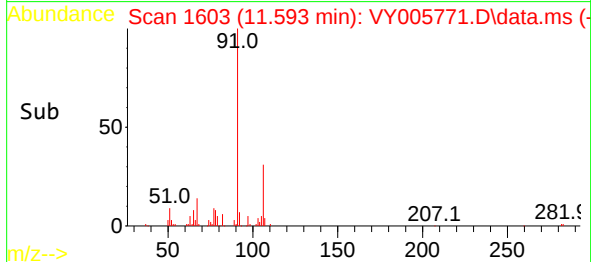
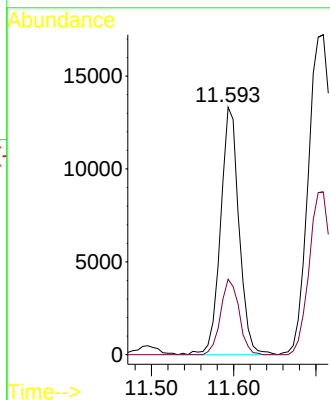
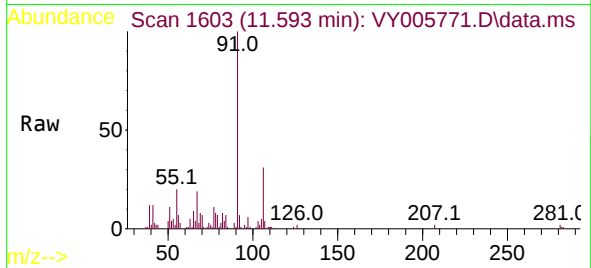




#67
Ethyl Benzene
Concen: 1.844 ug/l
RT: 11.593 min Scan# 1603
Delta R.T. -0.006 min
Lab File: VY005771.D
Acq: 19 Aug 2021 15:58

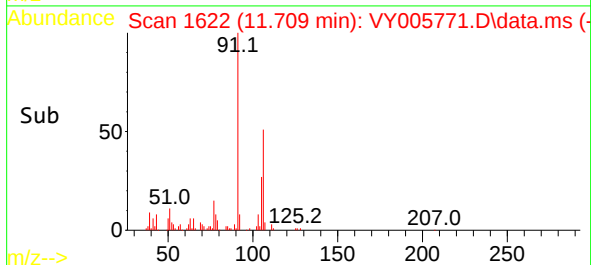
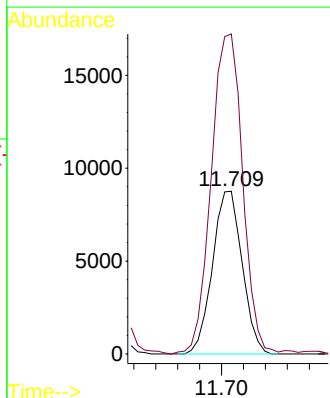
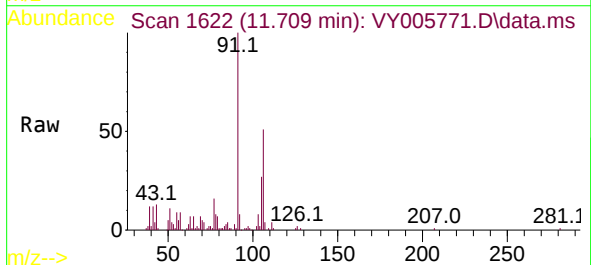
Instrument :
MSVOA_Y
ClientSampled :

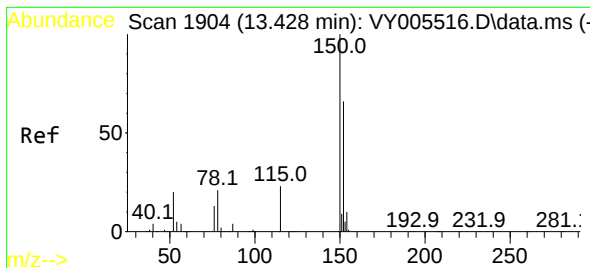
Tgt Ion: 91 Resp: 20856
Ion Ratio Lower Upper
91 100
106 30.5 25.8 38.6



#68
m/p-Xylenes
Concen: 3.747 ug/l
RT: 11.709 min Scan# 1622
Delta R.T. -0.000 min
Lab File: VY005771.D
Acq: 19 Aug 2021 15:58

Tgt Ion:106 Resp: 16465
Ion Ratio Lower Upper
106 100
91 209.0 159.6 239.4

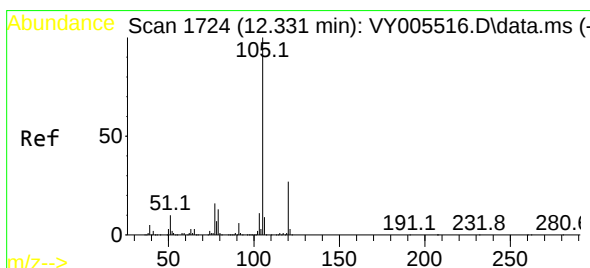
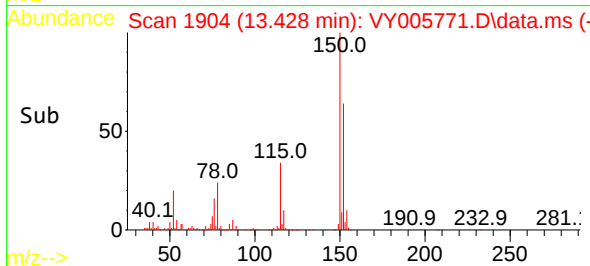
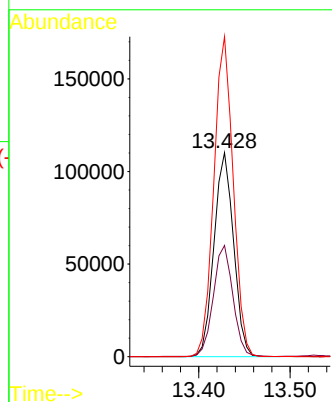
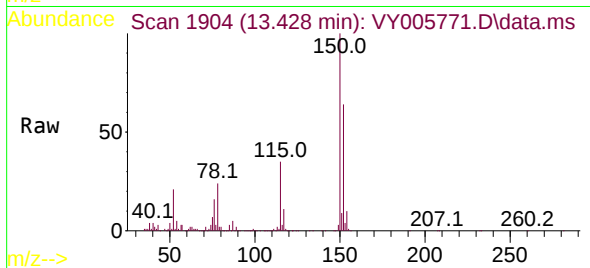




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.428 min Scan# 1904
Delta R.T. -0.000 min
Lab File: VY005771.D
Acq: 19 Aug 2021 15:58

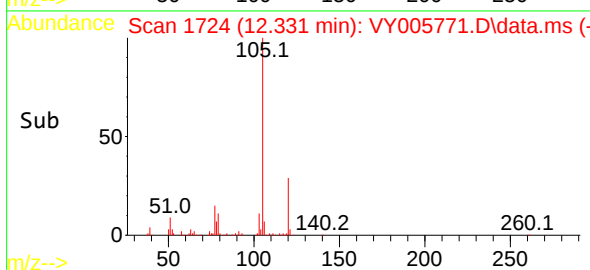
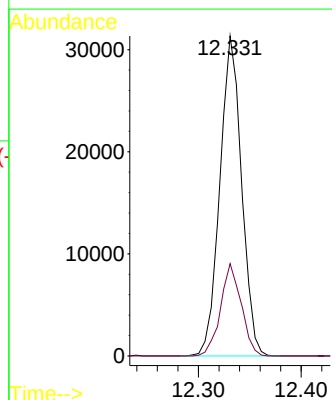
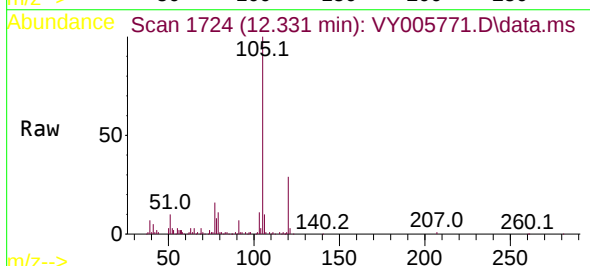
Instrument :
MSVOA_Y
ClientSampleId :

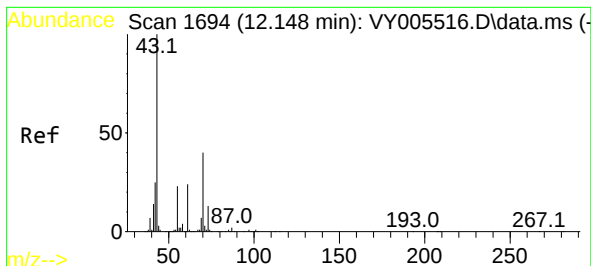
Tgt Ion:152 Resp: 163902
Ion Ratio Lower Upper
152 100
115 54.2 27.3 81.9
150 155.3 0.0 350.2



#73
Isopropylbenzene
Concen: 4.015 ug/l
RT: 12.331 min Scan# 1724
Delta R.T. -0.000 min
Lab File: VY005771.D
Acq: 19 Aug 2021 15:58

Tgt Ion:105 Resp: 45932
Ion Ratio Lower Upper
105 100
120 27.5 13.7 41.1

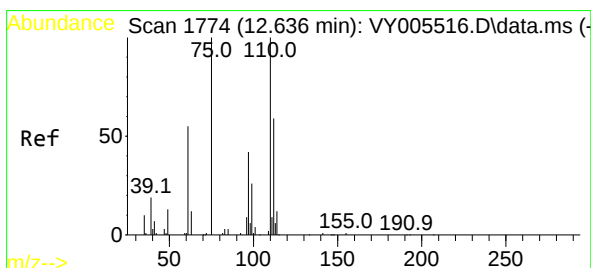
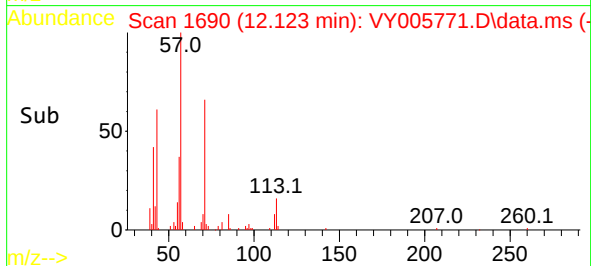
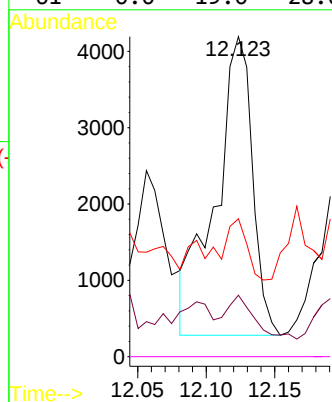
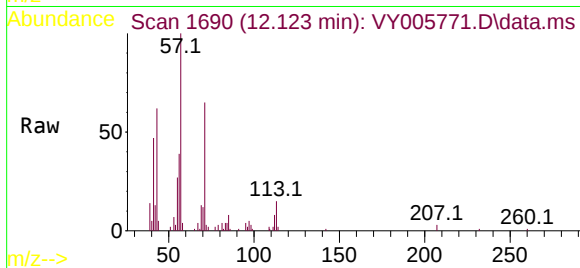




#74
N-amy1 acetate
Concen: 2.145 ug/l
RT: 12.123 min Scan# 1690
Delta R.T. -0.025 min
Lab File: VY005771.D
Acq: 19 Aug 2021 15:58

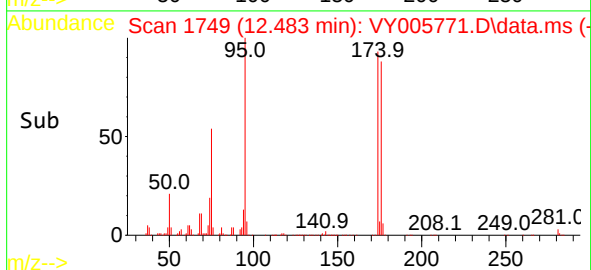
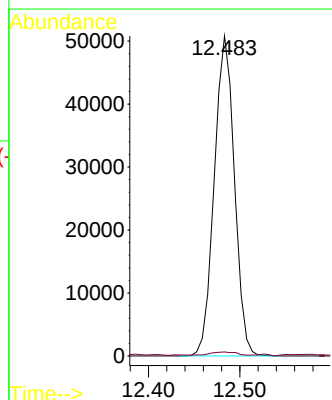
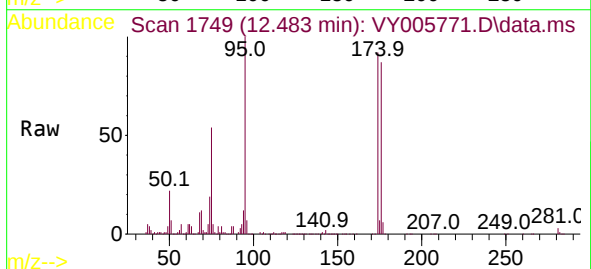
Instrument :
MSVOA_Y
ClientSampleId :

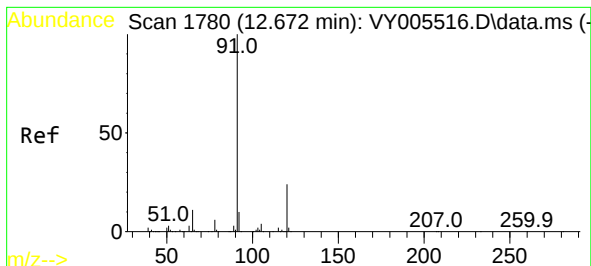
Tgt Ion: 43 Resp: 7388
Ion Ratio Lower Upper
43 100
70 11.3 32.9 49.3#
55 10.2 18.9 28.3#
61 0.0 19.0 28.6#



#76
1,2,3-Trichloropropane
Concen: 45.872 ug/l
RT: 12.483 min Scan# 1749
Delta R.T. -0.153 min
Lab File: VY005771.D
Acq: 19 Aug 2021 15:58

Tgt Ion: 75 Resp: 77914
Ion Ratio Lower Upper
75 100
77 1.2 0.0 0.0#

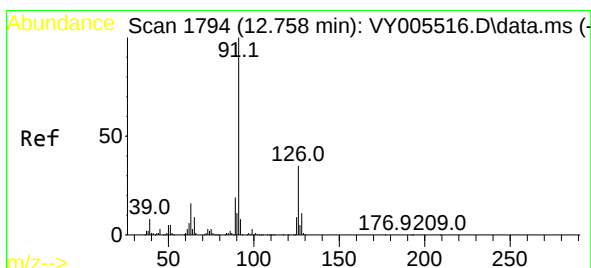
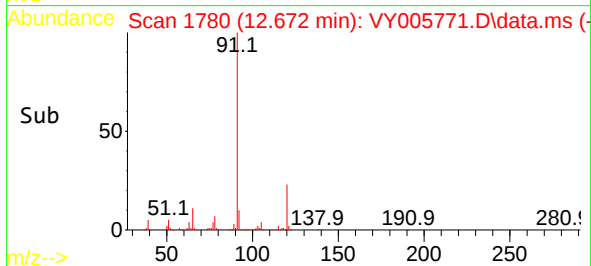
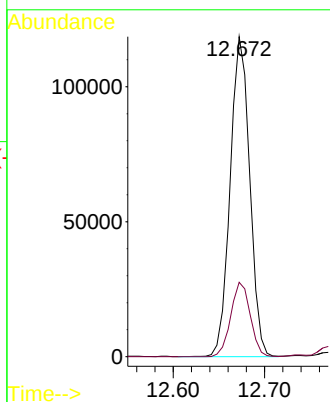
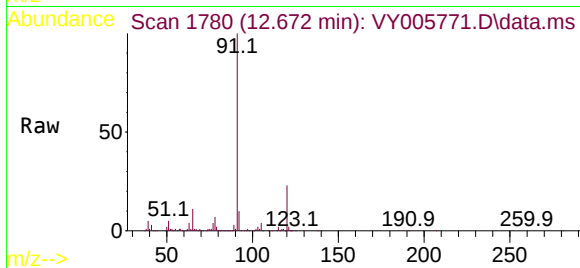




#78
n-propylbenzene
Concen: 12.989 ug/l
RT: 12.672 min Scan# 1780
Delta R.T. -0.000 min
Lab File: VY005771.D
Acq: 19 Aug 2021 15:58

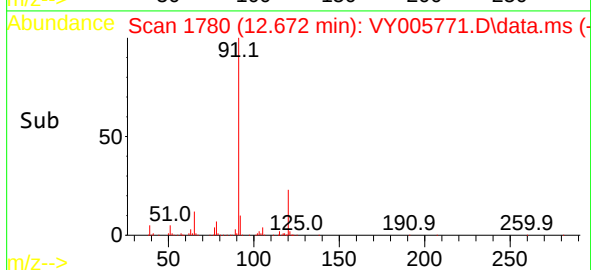
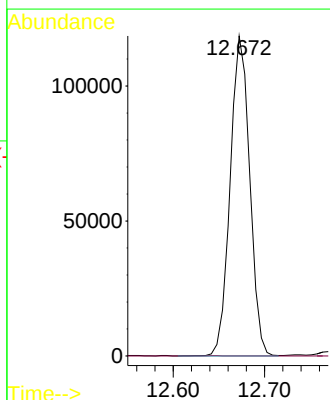
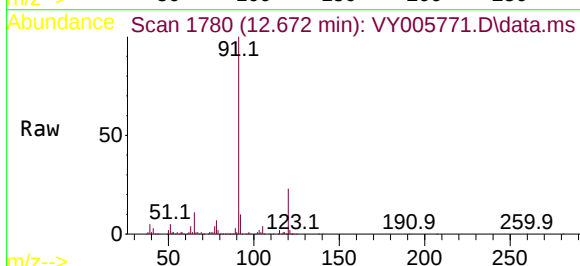
Instrument :
MSVOA_Y
ClientSampled :

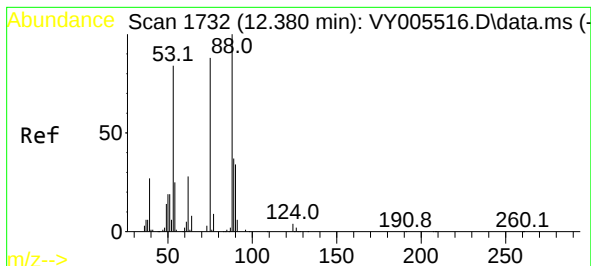
Tgt Ion: 91 Resp: 176495
Ion Ratio Lower Upper
91 100
120 23.2 11.9 35.9



#79
2-Chlorotoluene
Concen: 23.131 ug/l
RT: 12.672 min Scan# 1780
Delta R.T. -0.085 min
Lab File: VY005771.D
Acq: 19 Aug 2021 15:58

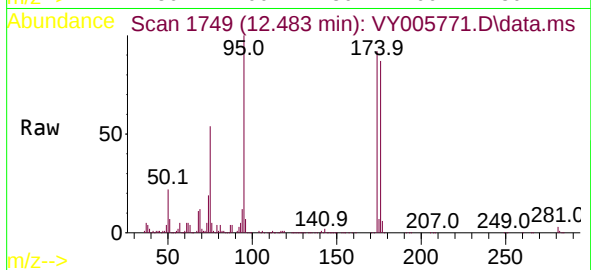
Tgt Ion: 91 Resp: 176495
Ion Ratio Lower Upper
91 100
126 0.0 17.5 52.6#



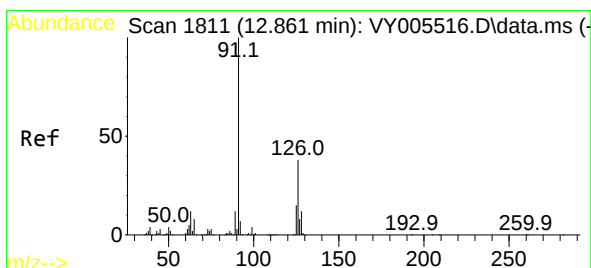
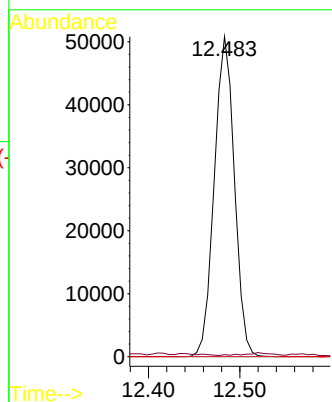
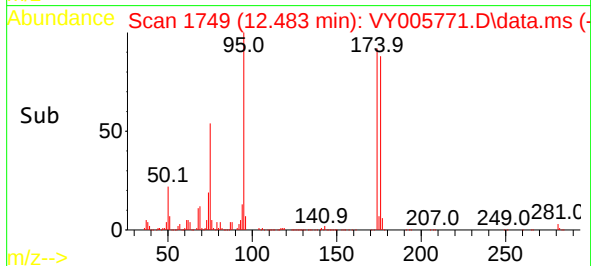


#81
trans-1,4-Dichloro-2-butene
Concen: 92.473 ug/l
RT: 12.483 min Scan# 1749
Delta R.T. 0.104 min
Lab File: VY005771.D
Acq: 19 Aug 2021 15:58

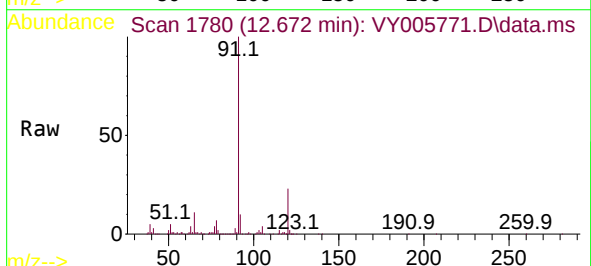
Instrument :
MSVOA_Y
ClientSampled :



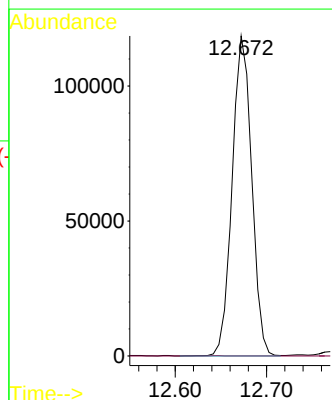
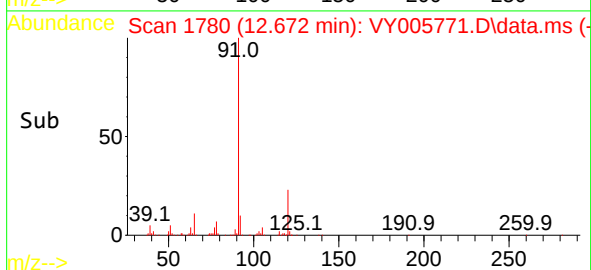
Tgt Ion: 75 Resp: 77914
Ion Ratio Lower Upper
75 100
53 0.0 76.7 115.1#
89 0.0 38.4 57.6#

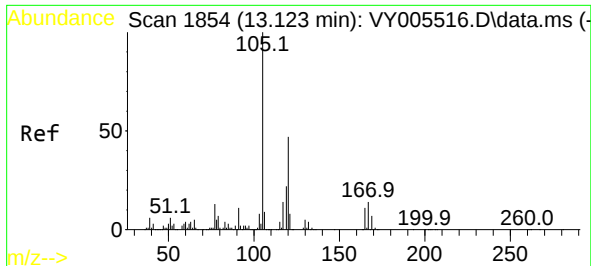


#82
4-Chlorotoluene
Concen: 22.356 ug/l
RT: 12.672 min Scan# 1780
Delta R.T. -0.189 min
Lab File: VY005771.D
Acq: 19 Aug 2021 15:58



Tgt Ion: 91 Resp: 176495
Ion Ratio Lower Upper
91 100
126 0.0 17.5 52.5#

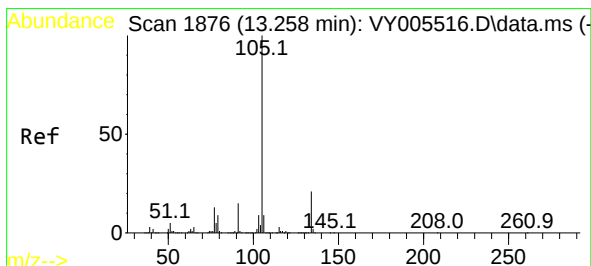
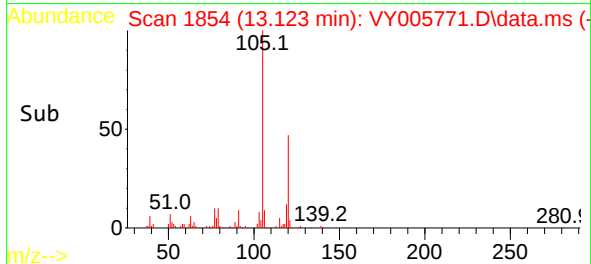
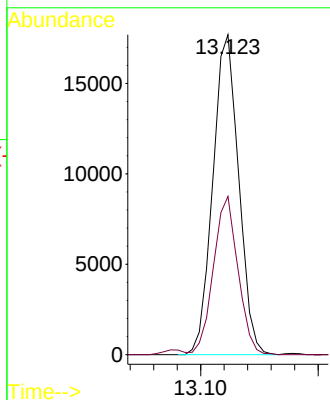
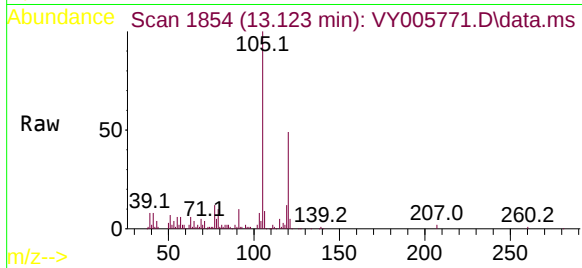




#84
1,2,4-Trimethylbenzene
Concen: 2.881 ug/l
RT: 13.123 min Scan# 1854
Delta R.T. -0.000 min
Lab File: VY005771.D
Acq: 19 Aug 2021 15:58

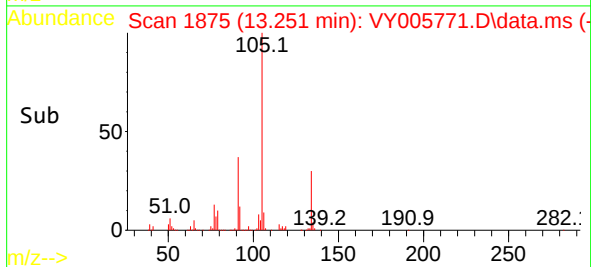
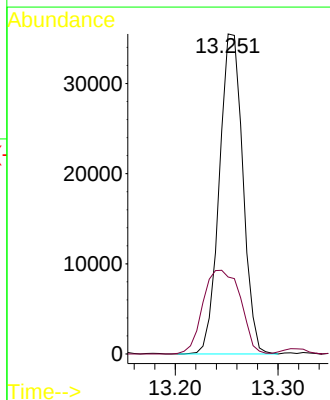
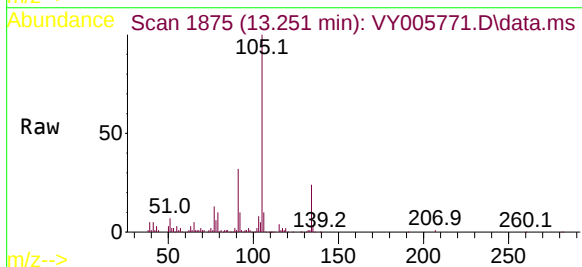
Instrument :
MSVOA_Y
ClientSampleId :

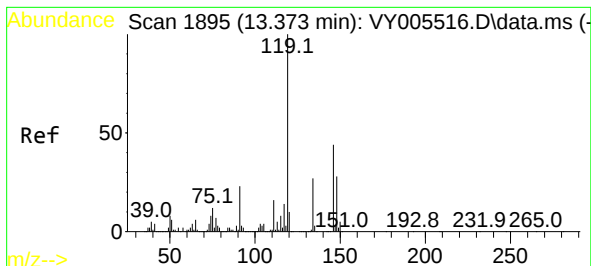
Tgt Ion:105 Resp: 26991
Ion Ratio Lower Upper
105 100
120 47.2 22.9 68.5



#85
sec-Butylbenzene
Concen: 4.577 ug/l
RT: 13.251 min Scan# 1875
Delta R.T. -0.006 min
Lab File: VY005771.D
Acq: 19 Aug 2021 15:58

Tgt Ion:105 Resp: 56249
Ion Ratio Lower Upper
105 100
134 41.9 10.5 31.5#

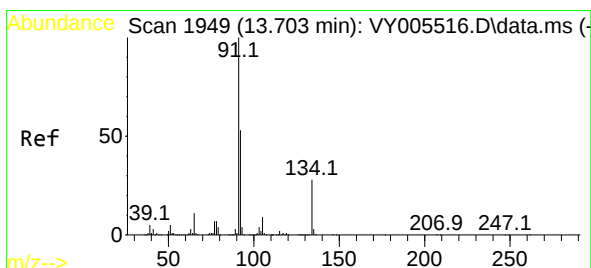
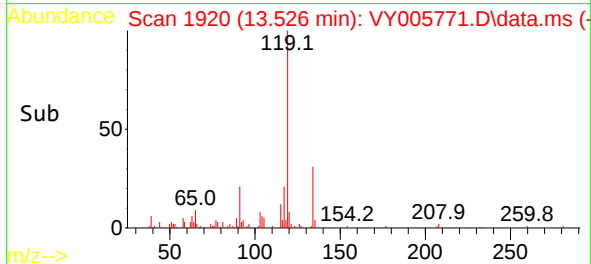
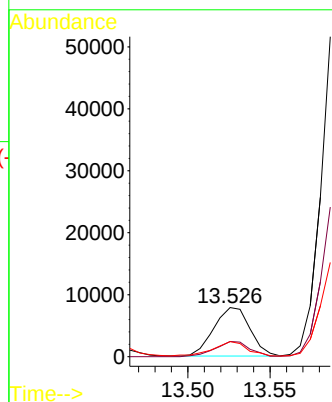
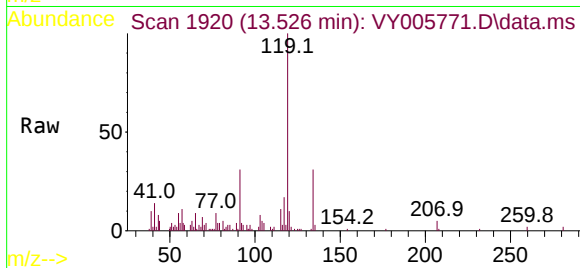




#86
p-Isopropyltoluene
Concen: 1.138 ug/l
RT: 13.526 min Scan# 1920
Delta R.T. 0.152 min
Lab File: VY005771.D
Acq: 19 Aug 2021 15:58

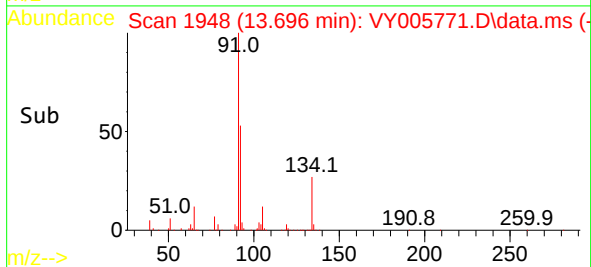
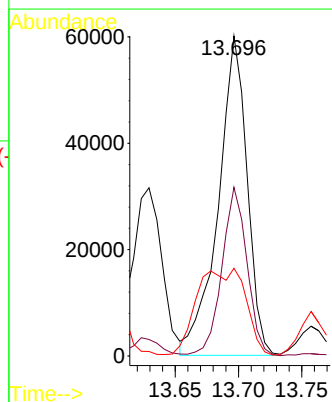
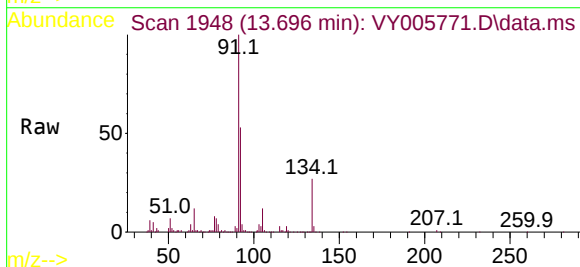
Instrument :
MSVOA_Y
ClientSampled :

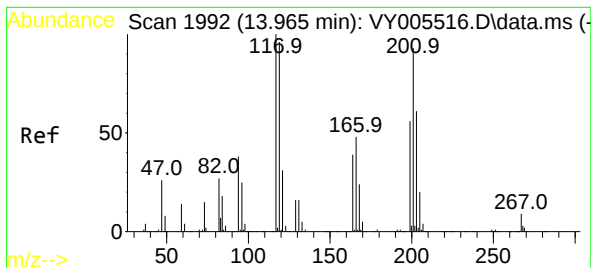
Tgt Ion:119 Resp: 12007
Ion Ratio Lower Upper
119 100
134 30.2 13.6 40.7
91 27.7 11.6 34.7



#89
n-Butylbenzene
Concen: 9.955 ug/l
RT: 13.696 min Scan# 1948
Delta R.T. -0.006 min
Lab File: VY005771.D
Acq: 19 Aug 2021 15:58

Tgt Ion: 91 Resp: 95154
Ion Ratio Lower Upper
91 100
92 45.8 26.7 80.1
134 46.1 13.8 41.4#

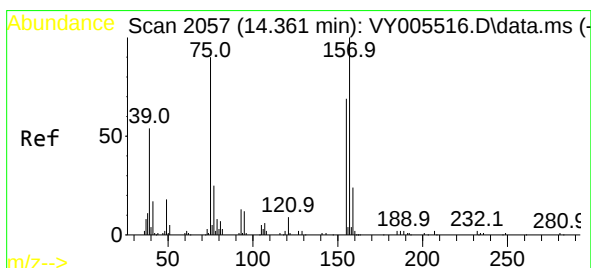
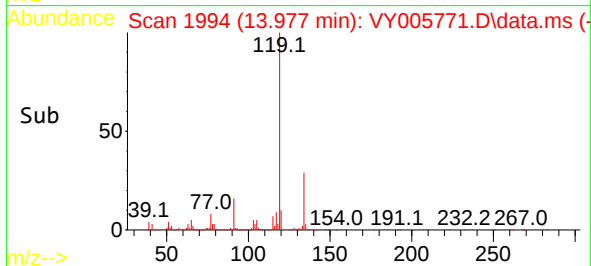
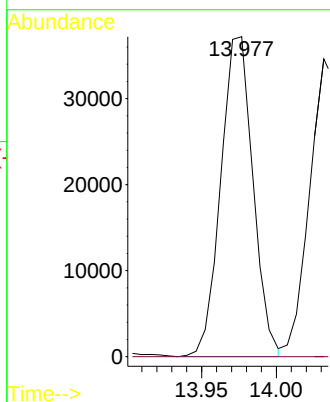
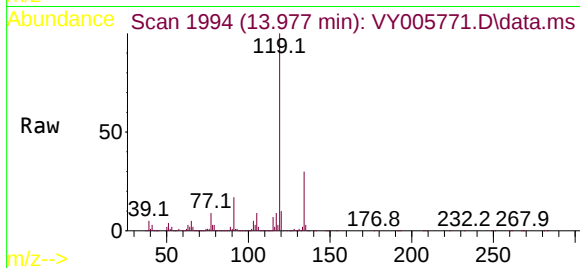




#90
Hexachloroethane
Concen: 29.383 ug/l
RT: 13.977 min Scan# 1994
Delta R.T. 0.012 min
Lab File: VY005771.D
Acq: 19 Aug 2021 15:58

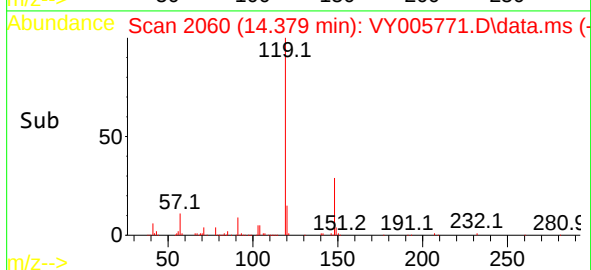
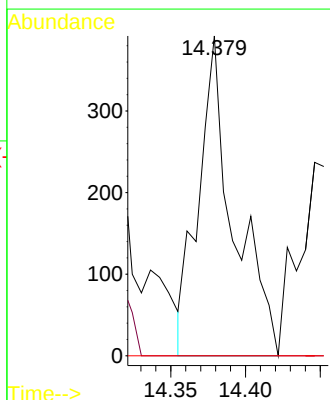
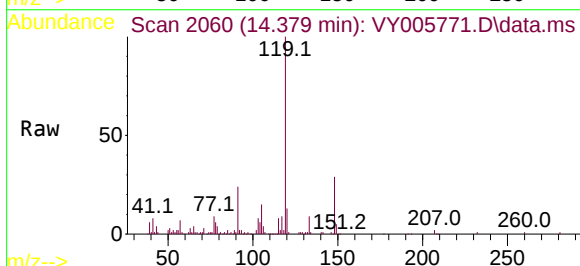
Instrument :
MSVOA_Y
ClientSampleId :

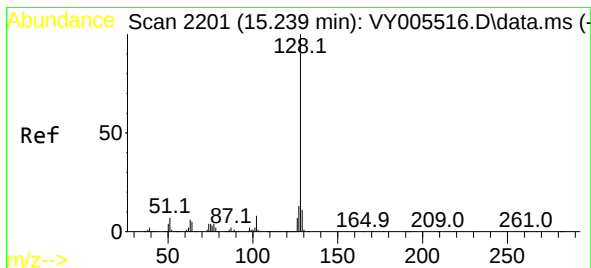
Tgt Ion:117 Resp: 55735
Ion Ratio Lower Upper
117 100
201 0.0 46.7 140.1#



#92
1,2-Dibromo-3-Chloropropane
Concen: 1.534 ug/l
RT: 14.379 min Scan# 2060
Delta R.T. 0.018 min
Lab File: VY005771.D
Acq: 19 Aug 2021 15:58

Tgt Ion: 75 Resp: 640
Ion Ratio Lower Upper
75 100
155 0.0 42.4 127.1#
157 0.0 56.0 168.2#





#95
Naphthalene
Concen: 3.758 ug/l
RT: 15.239 min Scan# 2201
Delta R.T. -0.000 min
Lab File: VY005771.D
Acq: 19 Aug 2021 15:58

Instrument :
MSVOA_Y
ClientSampleId :

Tgt Ion:128 Resp: 24653
Ion Ratio Lower Upper
128 100
127 16.9 10.6 15.8#
129 13.6 8.7 13.1#

