

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY082223\
 Data File : VY015237.D
 Acq On : 22 Aug 2023 12:19
 Operator : SY/MD
 Sample : 04080-01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 ETGI-340

Quant Time: Aug 22 14:27:26 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081423S.M
 Quant Title : SW846 8260
 QLast Update : Mon Aug 14 12:43:26 2023
 Response via : Initial Calibration

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

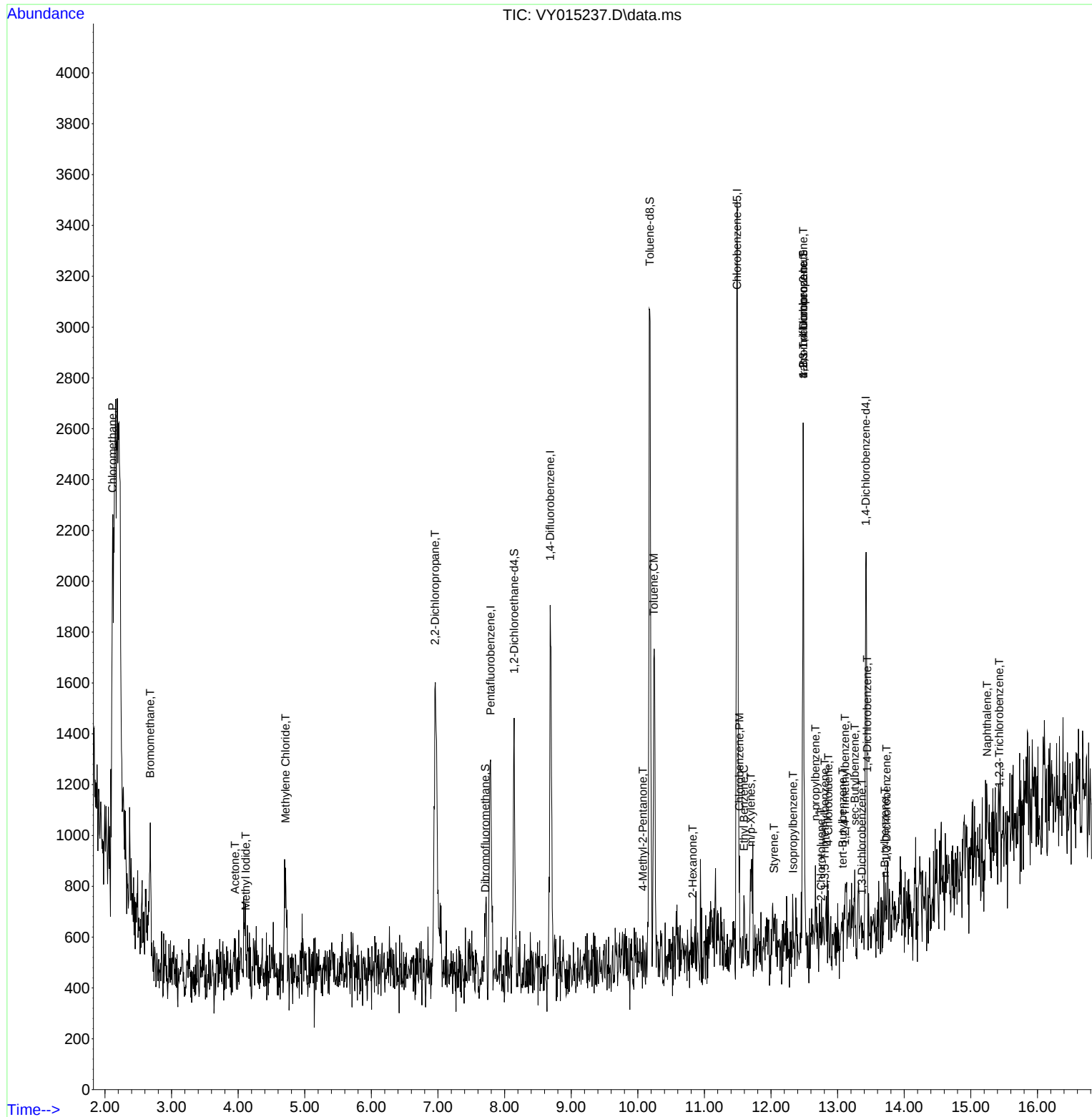
Internal Standards						
1) Pentafluorobenzene	7.789	168	1102	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.685	114	1818	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.490	117	2049	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.422	152	623	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.143	65	882	66.674	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 133.340%	
35) Dibromofluoromethane	7.710	113	251	21.461	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 42.920%#	
50) Toluene-d8	10.179	98	2052	47.131	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 94.260%	
62) 4-Bromofluorobenzene	12.483	95	702	44.144	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 88.280%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.113	50	142	19.226	ug/l #	43
5) Bromomethane	2.680	94	302	49.052	ug/l #	61
10) Methyl Iodide	4.113	142	372	41.254	ug/l #	59
13) Acrolein	3.771	56	34	Below Cal	#	14
16) Acetone	3.954	43	183	42.346	ug/l #	46
20) Methylene Chloride	4.710	84	308	27.808	ug/l #	65
26) 2,2-Dichloropropane	6.954	77	24	1.356	ug/l #	54
51) 4-Methyl-2-Pentanone	10.075	43	19	1.493	ug/l #	39
52) Toluene	10.240	92	667	25.868	ug/l	95
59) 2-Hexanone	10.825	43	38	4.034	ug/l #	27
65) Chlorobenzene	11.526	112	133	3.563	ug/l #	43
67) Ethyl Benzene	11.593	91	262	4.005	ug/l	94
68) m/p-Xylenes	11.697	106	136	5.474	ug/l #	1
70) Styrene	12.044	104	81	1.891	ug/l #	25
73) Isopropylbenzene	12.331	105	102	2.546	ug/l #	48
76) 1,2,3-Trichloropropane	12.483	75	395	52.187	ug/l #	100
78) n-propylbenzene	12.666	91	268	5.634	ug/l #	53
79) 2-Chlorotoluene	12.752	91	84	3.061	ug/l #	40
80) 1,3,5-Trimethylbenzene	12.806	105	43	1.288	ug/l #	29
81) trans-1,4-Dichloro-2-b...	12.483	75	395	114.627	ug/l #	10
82) 4-Chlorotoluene	12.861	91	34	1.199	ug/l #	40
83) tert-Butylbenzene	13.075	119	66	2.161	ug/l #	26
84) 1,2,4-Trimethylbenzene	13.111	105	162	4.855	ug/l	73
85) sec-Butylbenzene	13.258	105	141	3.151	ug/l #	56
87) 1,3-Dichlorobenzene	13.367	146	22	1.136	ug/l #	25
88) 1,4-Dichlorobenzene	13.447	146	45	2.316	ug/l #	25
89) n-Butylbenzene	13.709	91	40	1.143	ug/l #	35
91) 1,2-Dichlorobenzene	13.733	146	24	1.326	ug/l #	25
95) Naphthalene	15.245	128	353	12.199	ug/l #	69
96) 1,2,3-Trichlorobenzene	15.428	180	73	6.959	ug/l #	34

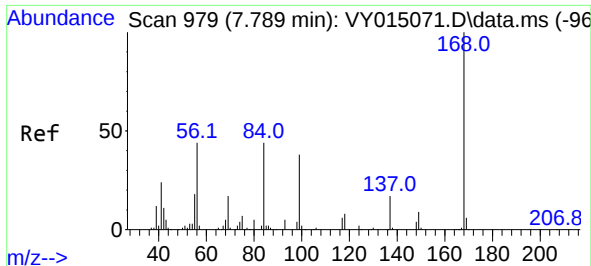
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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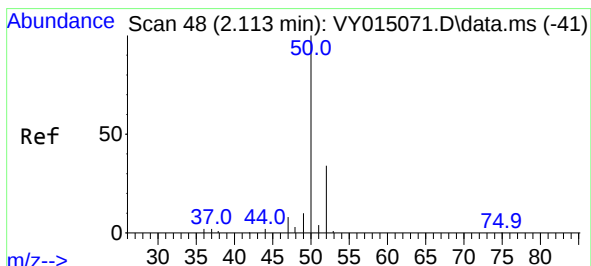
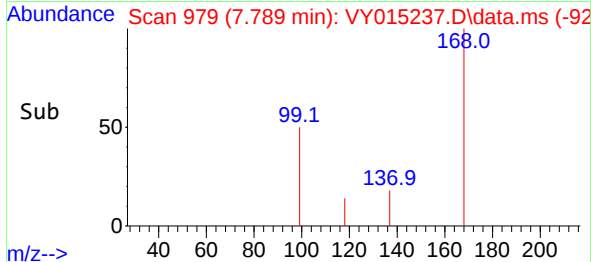
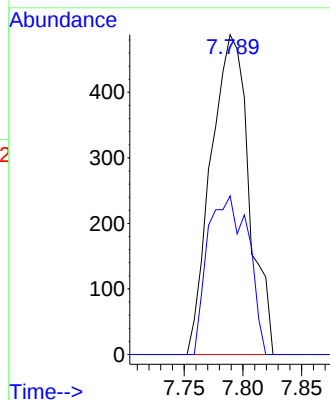
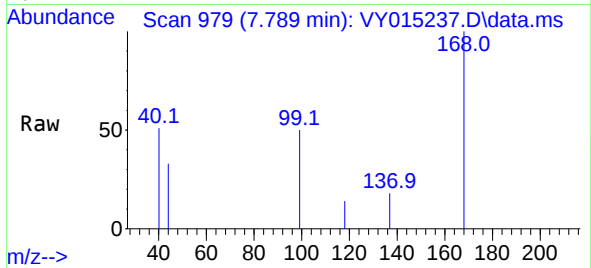




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.789 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY015237.D
Acq: 22 Aug 2023 12:19

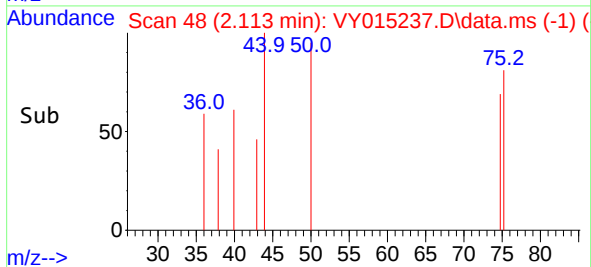
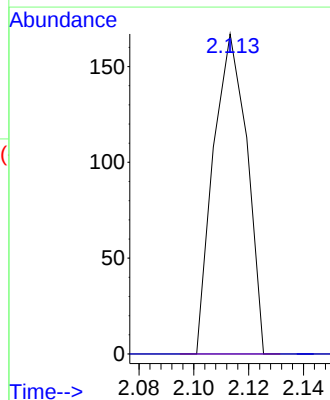
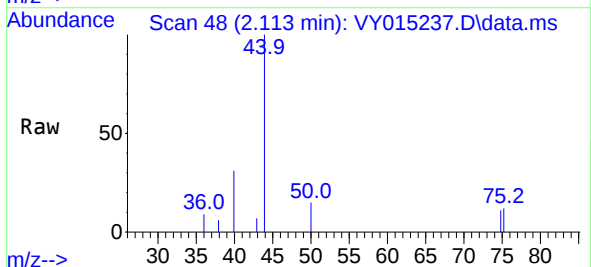
Instrument :
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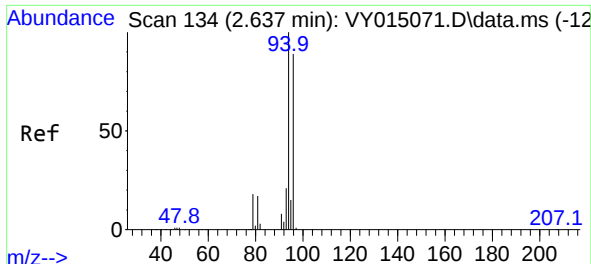
Tgt Ion:168 Resp: 1102
Ion Ratio Lower Upper
168 100
99 49.6 43.4 65.0



#3
Chloromethane
Concen: 19.226 ug/l
RT: 2.113 min Scan# 48
Delta R.T. 0.006 min
Lab File: VY015237.D
Acq: 22 Aug 2023 12:19

Tgt Ion: 50 Resp: 142
Ion Ratio Lower Upper
50 100
52 0.0 25.4 38.2#

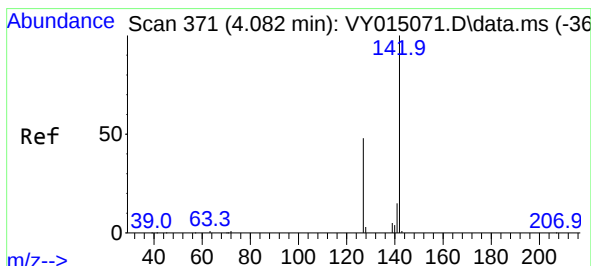
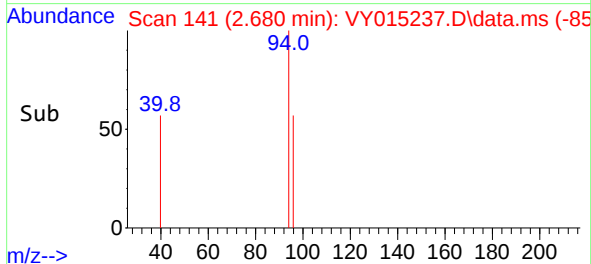
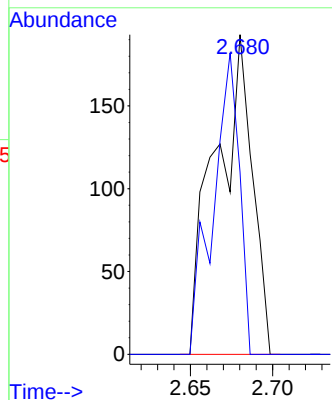
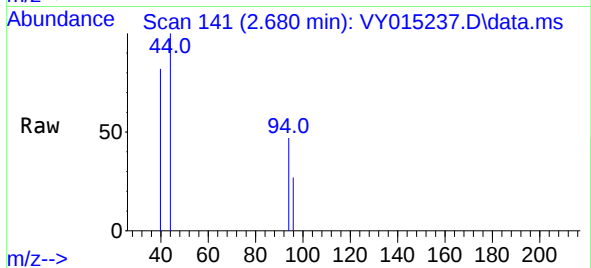




#5
Bromomethane
Concen: 49.052 ug/l
RT: 2.680 min Scan# 141
Delta R.T. 0.043 min
Lab File: VY015237.D
Acq: 22 Aug 2023 12:19

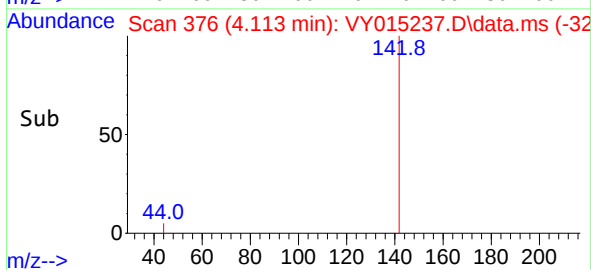
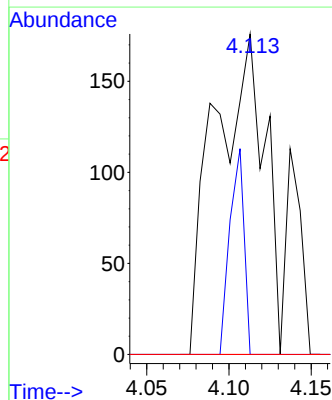
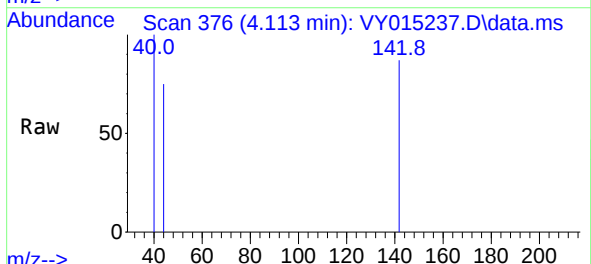
Instrument :
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ClientSampleId :
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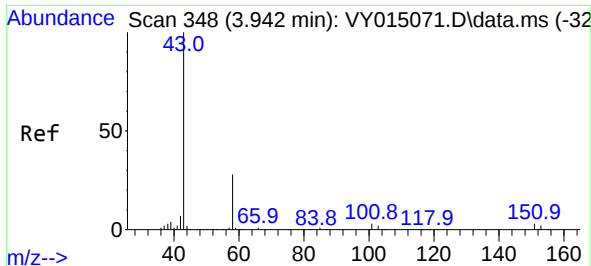
Tgt Ion: 94 Resp: 302
Ion Ratio Lower Upper
94 100
96 57.0 75.8 113.6#



#10
Methyl Iodide
Concen: 41.254 ug/l
RT: 4.113 min Scan# 376
Delta R.T. 0.031 min
Lab File: VY015237.D
Acq: 22 Aug 2023 12:19

Tgt Ion:142 Resp: 372
Ion Ratio Lower Upper
142 100
127 18.3 37.6 56.4#
141 0.0 11.8 17.8#

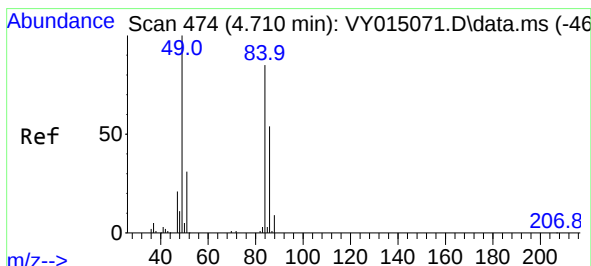
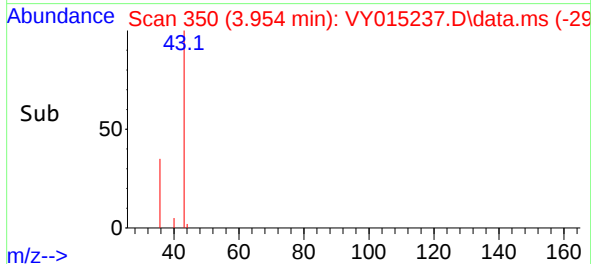
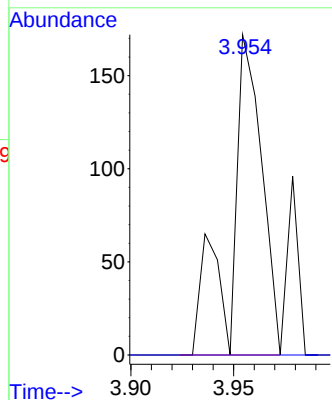
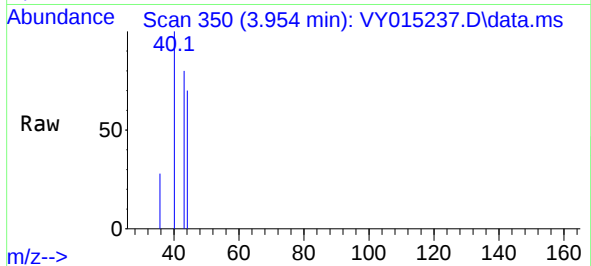




#16
Acetone
Concen: 42.346 ug/l
RT: 3.954 min Scan# 31
Delta R.T. 0.012 min
Lab File: VY015237.D
Acq: 22 Aug 2023 12:19

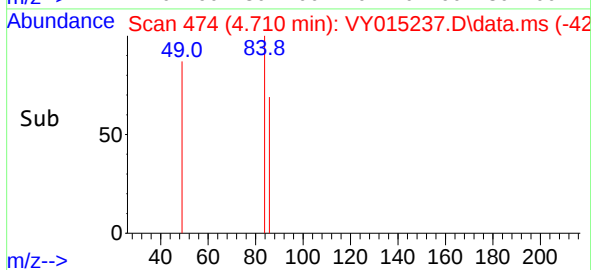
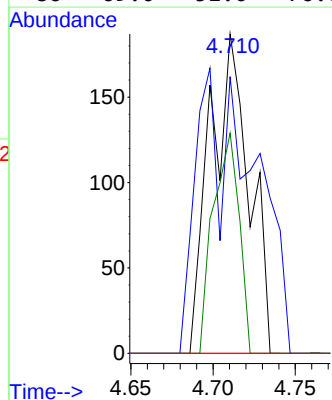
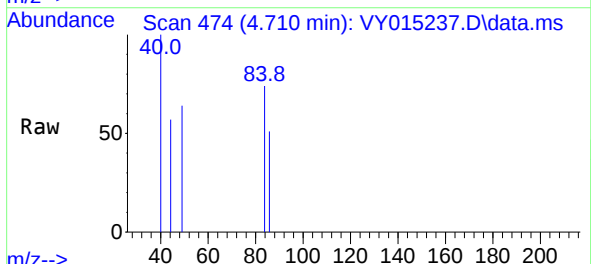
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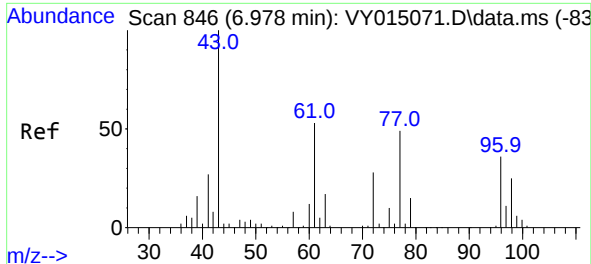
Tgt Ion: 43 Resp: 183
Ion Ratio Lower Upper
43 100
58 0.0 22.7 34.1#



#20
Methylene Chloride
Concen: 27.808 ug/l
RT: 4.710 min Scan# 474
Delta R.T. 0.000 min
Lab File: VY015237.D
Acq: 22 Aug 2023 12:19

Tgt Ion: 84 Resp: 308
Ion Ratio Lower Upper
84 100
49 86.6 106.9 160.3#
51 0.0 33.2 49.8#
86 69.0 51.0 76.6

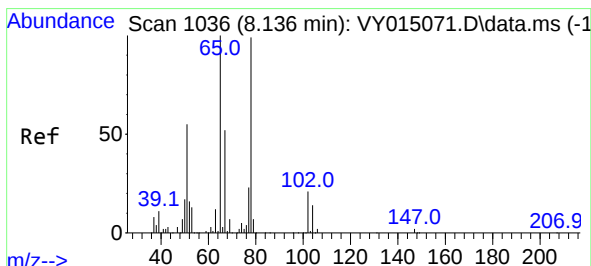
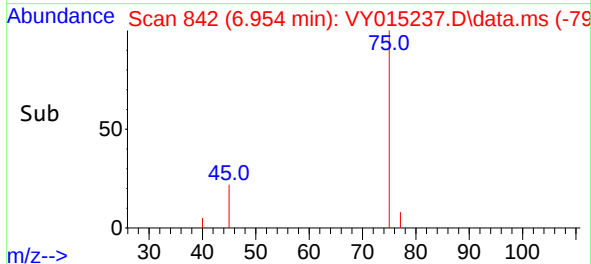
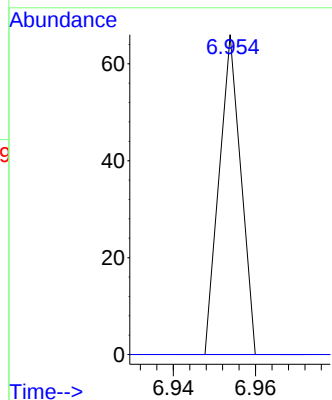
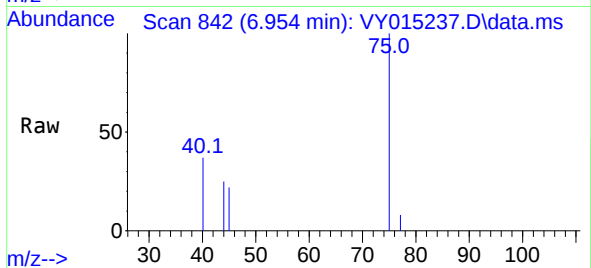




#26
2,2-Dichloropropane
Concen: 1.356 ug/l
RT: 6.954 min Scan# 846
Delta R.T. -0.018 min
Lab File: VY015237.D
Acq: 22 Aug 2023 12:19

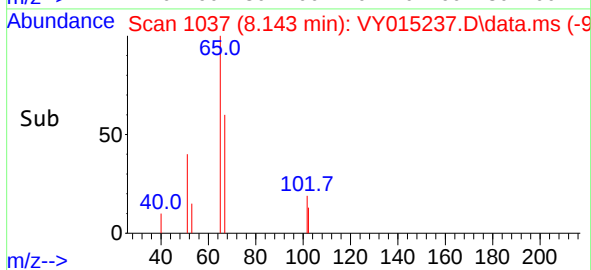
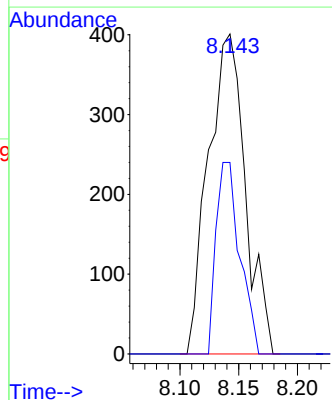
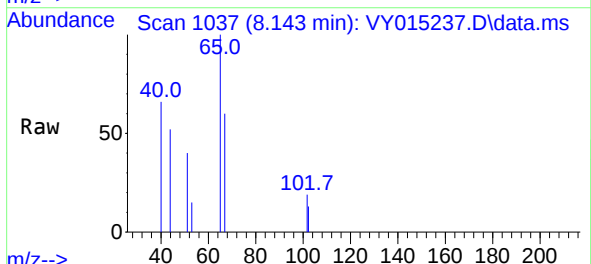
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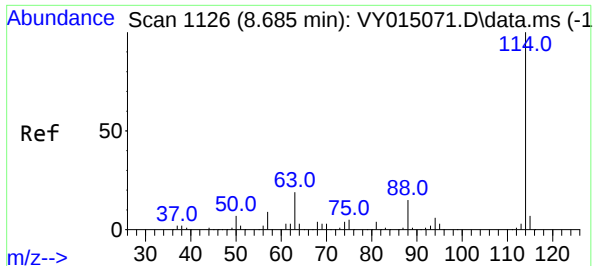
Tgt Ion: 77 Resp: 24
Ion Ratio Lower Upper
77 100
97 0.0 10.9 32.9#



#33
1,2-Dichloroethane-d4
Concen: 66.674 ug/l
RT: 8.143 min Scan# 1037
Delta R.T. 0.006 min
Lab File: VY015237.D
Acq: 22 Aug 2023 12:19

Tgt Ion: 65 Resp: 882
Ion Ratio Lower Upper
65 100
67 38.3 0.0 101.8

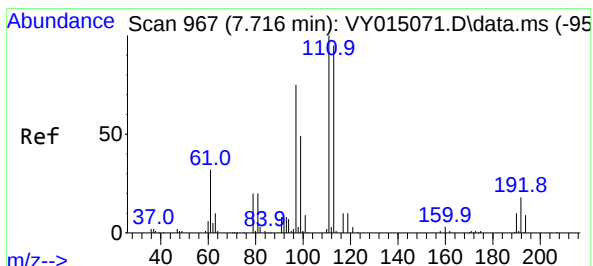
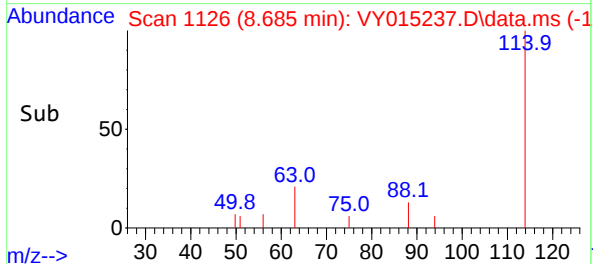
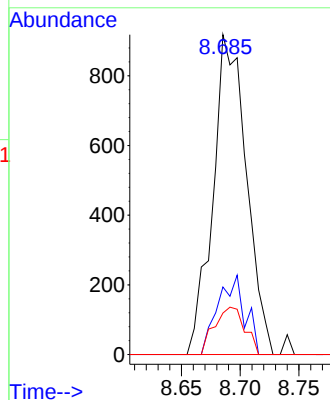
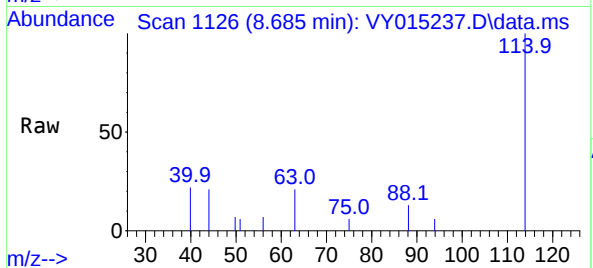




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.685 min Scan# 1126
Delta R.T. 0.000 min
Lab File: VY015237.D
Acq: 22 Aug 2023 12:19

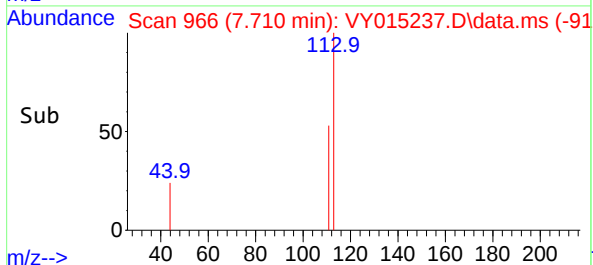
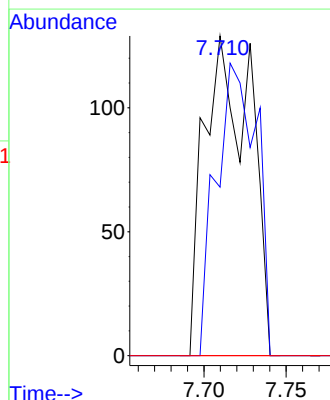
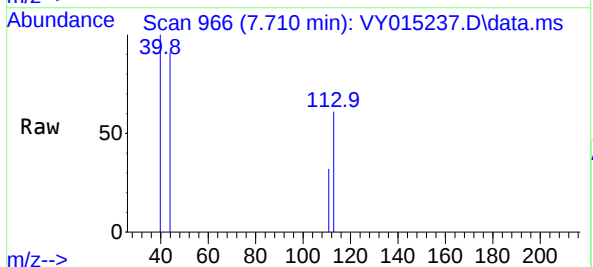
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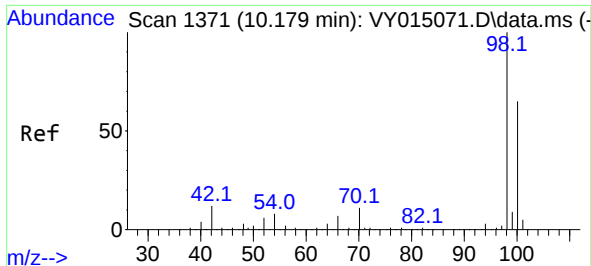
Tgt Ion:114	Resp:	1818
Ion	Ratio	Lower Upper
114	100	
63	21.1	0.0 42.4
88	13.0	0.0 30.6



#35
Dibromofluoromethane
Concen: 21.461 ug/l
RT: 7.710 min Scan# 966
Delta R.T. -0.006 min
Lab File: VY015237.D
Acq: 22 Aug 2023 12:19

Tgt Ion:113	Resp:	251
Ion	Ratio	Lower Upper
113	100	
111	80.5	81.3 121.9#
192	0.0	16.9 25.3#

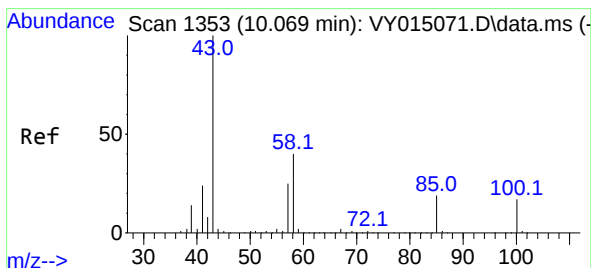
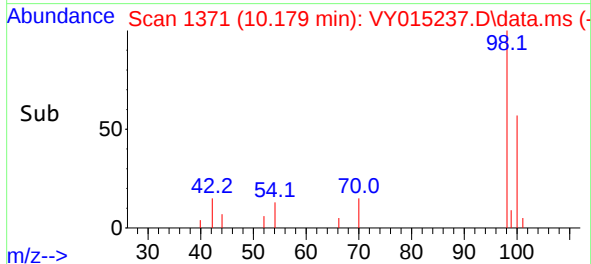
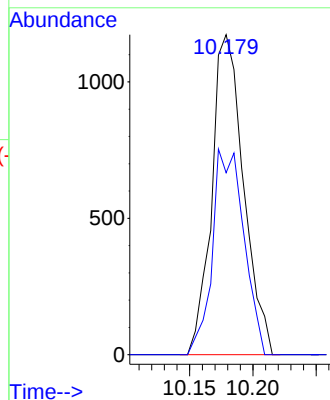
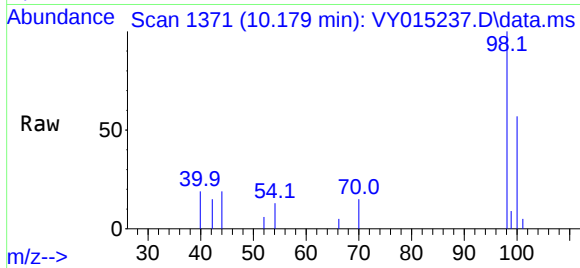




#50
Toluene-d8
Concen: 47.131 ug/l
RT: 10.179 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY015237.D
Acq: 22 Aug 2023 12:19

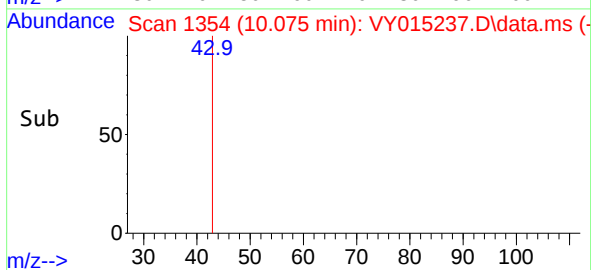
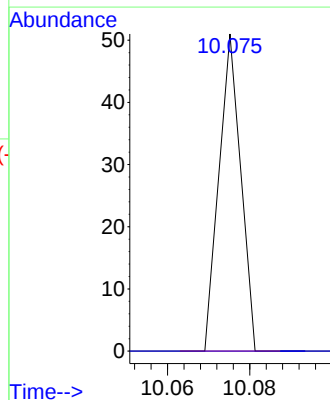
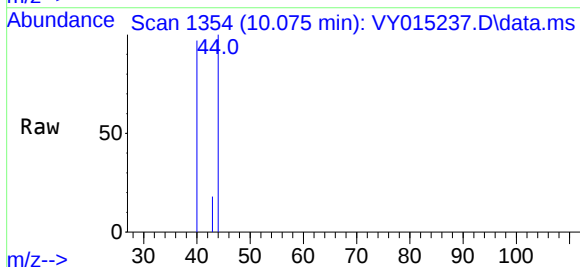
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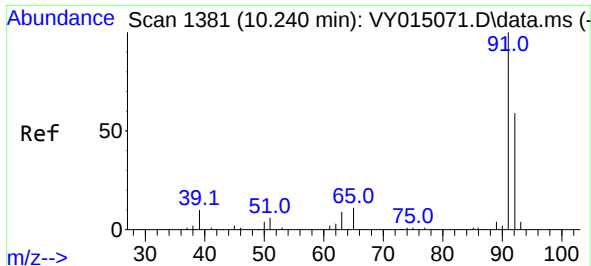
Tgt Ion: 98 Resp: 2052
Ion Ratio Lower Upper
98 100
100 63.2 50.1 75.1



#51
4-Methyl-2-Pentanone
Concen: 1.493 ug/l
RT: 10.075 min Scan# 1354
Delta R.T. 0.006 min
Lab File: VY015237.D
Acq: 22 Aug 2023 12:19

Tgt Ion: 43 Resp: 19
Ion Ratio Lower Upper
43 100
58 0.0 29.0 43.6#

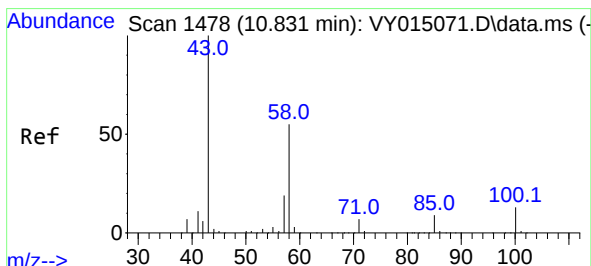
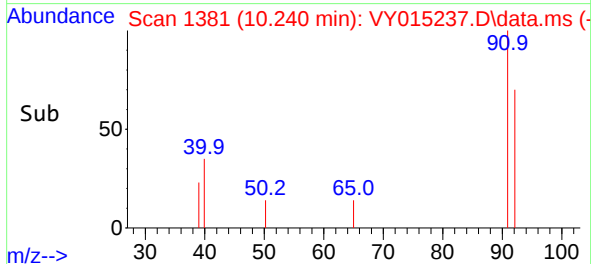
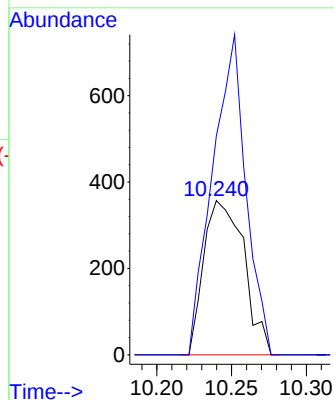
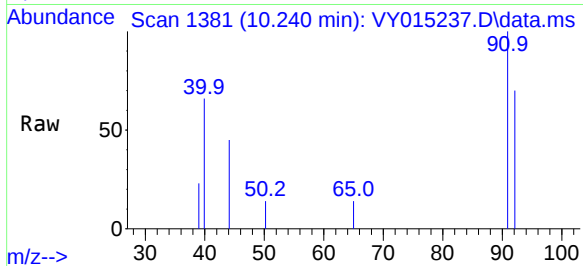




#52
Toluene
Concen: 25.868 ug/l
RT: 10.240 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY015237.D
Acq: 22 Aug 2023 12:19

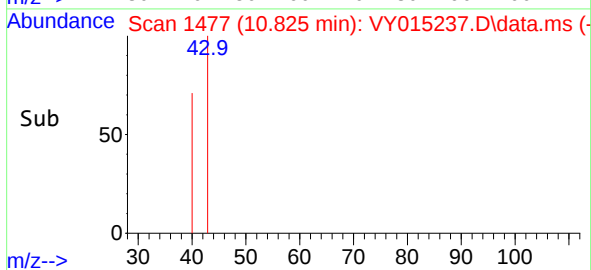
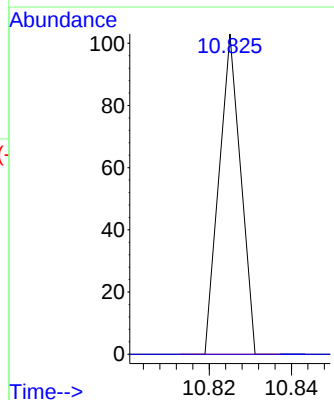
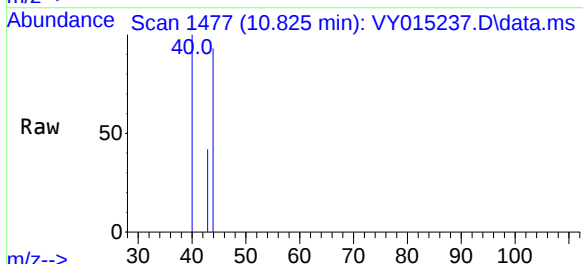
Instrument :
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ClientSampleId :
ETGI-340

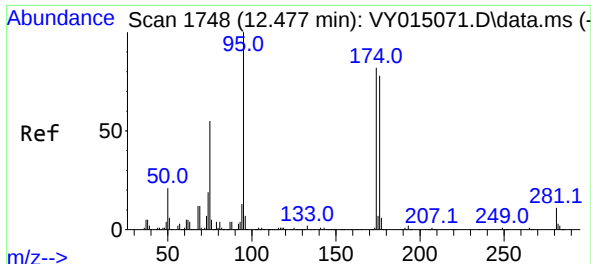
Tgt Ion: 92 Resp: 667
Ion Ratio Lower Upper
92 100
91 172.9 143.8 215.6



#59
2-Hexanone
Concen: 4.034 ug/l
RT: 10.825 min Scan# 1477
Delta R.T. -0.006 min
Lab File: VY015237.D
Acq: 22 Aug 2023 12:19

Tgt Ion: 43 Resp: 38
Ion Ratio Lower Upper
43 100
58 0.0 25.1 75.3#

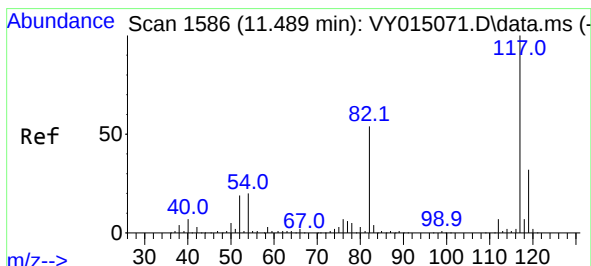
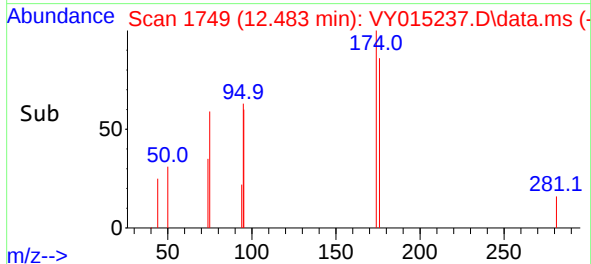
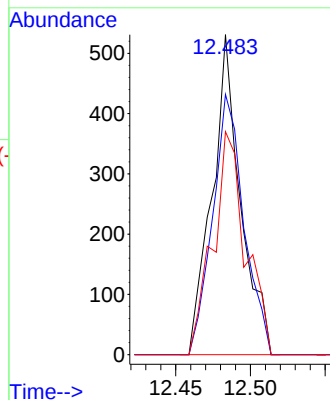
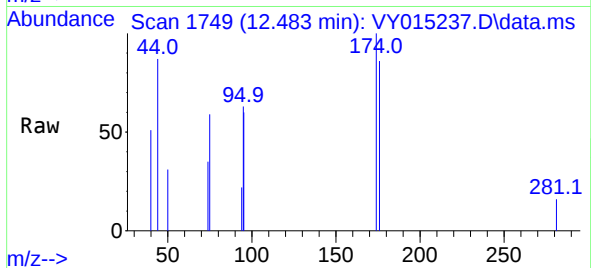




#62
4-Bromofluorobenzene
Concen: 44.144 ug/l
RT: 12.483 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY015237.D
Acq: 22 Aug 2023 12:19

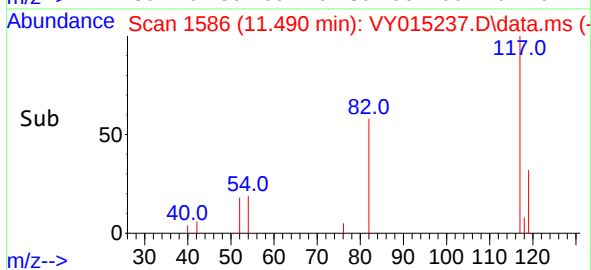
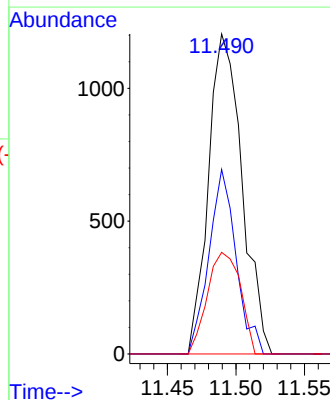
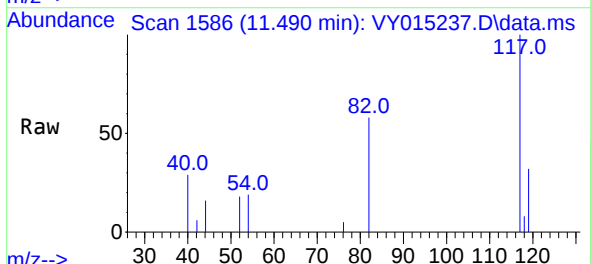
Instrument :
MSVOA_Y
ClientSampleId :
ETGI-340

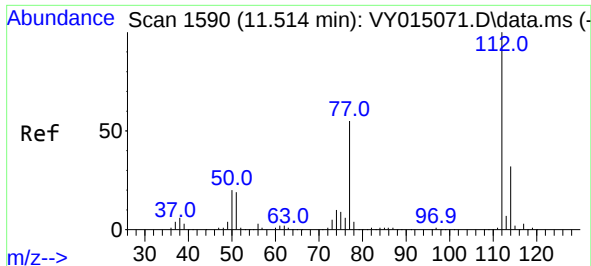
Tgt Ion: 95	Resp:	702	
Ion	Ratio	Lower	Upper
95	100		
174	89.5	0.0	178.2
176	80.1	0.0	173.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.490 min Scan# 1586
Delta R.T. 0.000 min
Lab File: VY015237.D
Acq: 22 Aug 2023 12:19

Tgt Ion:117	Resp:	2049	
Ion	Ratio	Lower	Upper
117	100		
82	57.7	43.4	65.0
119	31.8	26.3	39.5

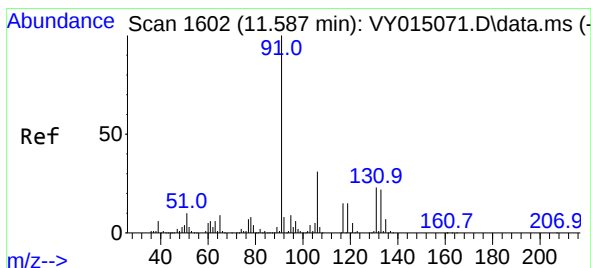
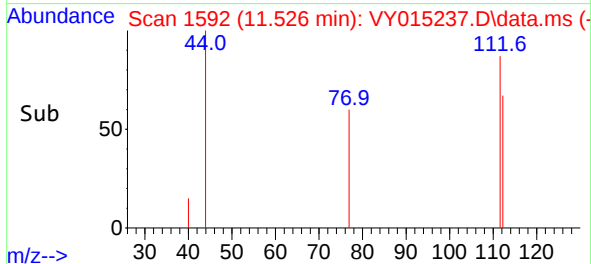
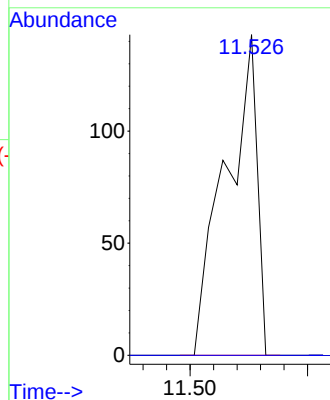
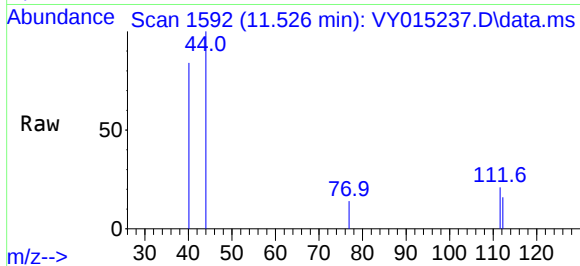




#65
Chlorobenzene
Concen: 3.563 ug/l
RT: 11.526 min Scan# 11
Delta R.T. 0.012 min
Lab File: VY015237.D
Acq: 22 Aug 2023 12:19

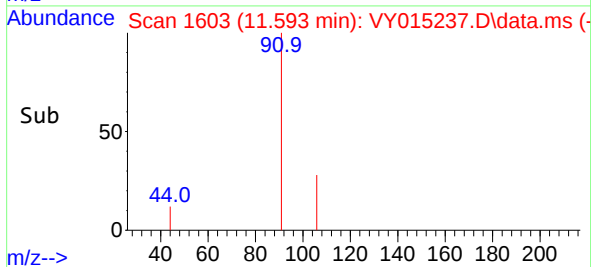
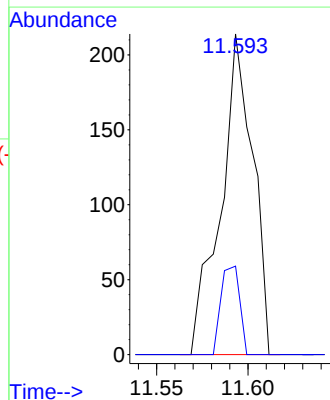
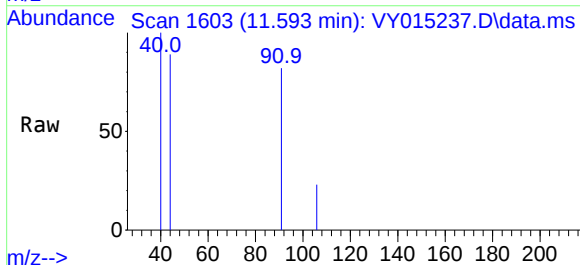
Instrument :
MSVOA_Y
ClientSampleId :
ETGI-340

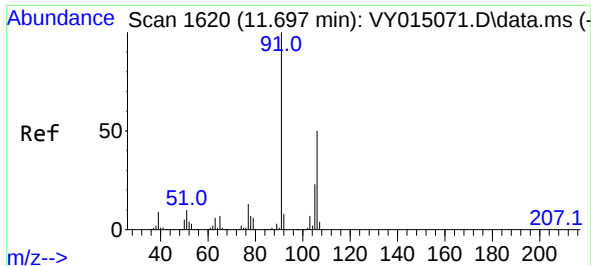
Tgt Ion:112 Resp: 133
Ion Ratio Lower Upper
112 100
114 0.0 25.5 38.3#



#67
Ethyl Benzene
Concen: 4.005 ug/l
RT: 11.593 min Scan# 1603
Delta R.T. 0.006 min
Lab File: VY015237.D
Acq: 22 Aug 2023 12:19

Tgt Ion: 91 Resp: 262
Ion Ratio Lower Upper
91 100
106 27.6 24.6 36.8

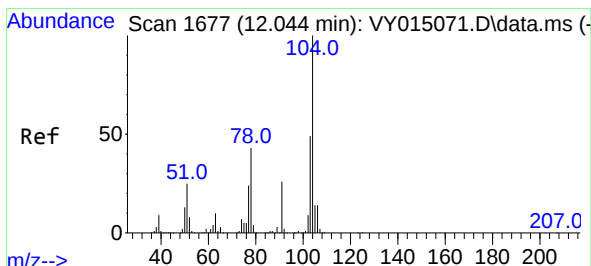
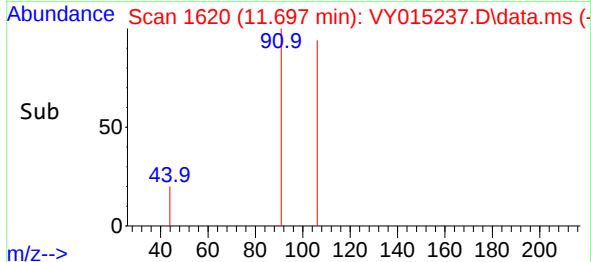
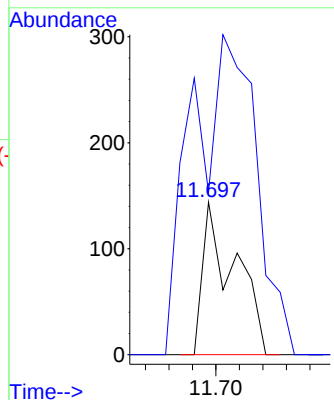
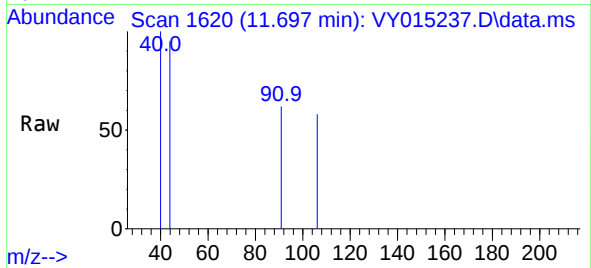




#68
m/p-Xylenes
Concen: 5.474 ug/l
RT: 11.697 min Scan# 1620
Delta R.T. 0.000 min
Lab File: VY015237.D
Acq: 22 Aug 2023 12:19

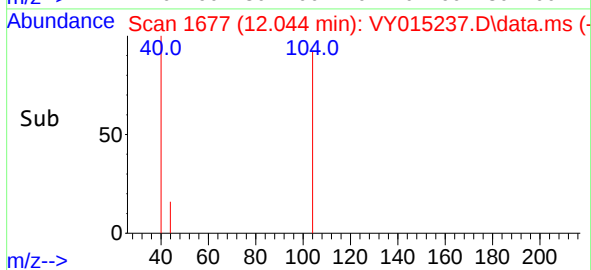
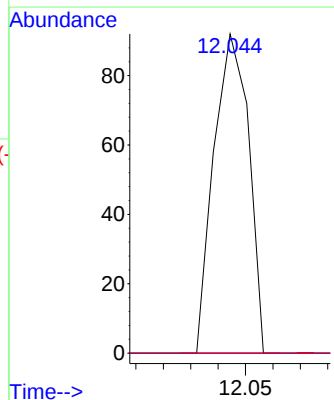
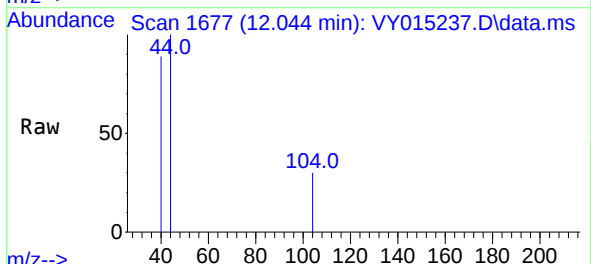
Instrument :
MSVOA_Y
ClientSampleId :
ETGI-340

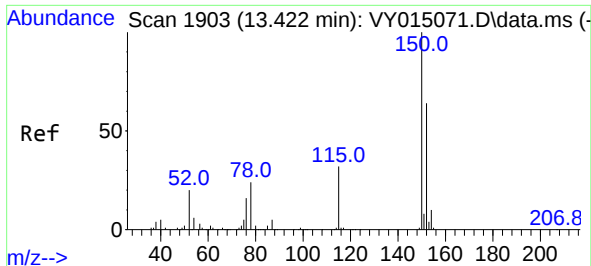
Tgt Ion:106 Resp: 136
Ion Ratio Lower Upper
106 100
91 419.1 166.1 249.1#



#70
Styrene
Concen: 1.891 ug/l
RT: 12.044 min Scan# 1677
Delta R.T. 0.000 min
Lab File: VY015237.D
Acq: 22 Aug 2023 12:19

Tgt Ion:104 Resp: 81
Ion Ratio Lower Upper
104 100
78 0.0 41.5 62.3#
103 0.0 44.6 67.0#

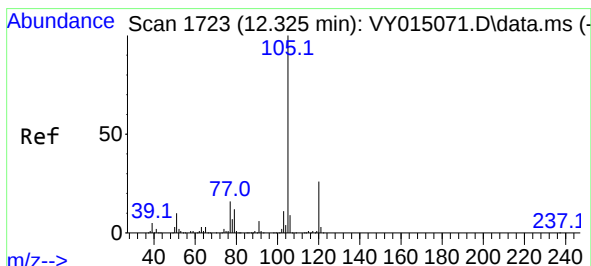
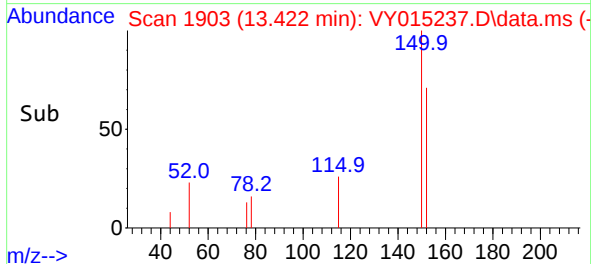
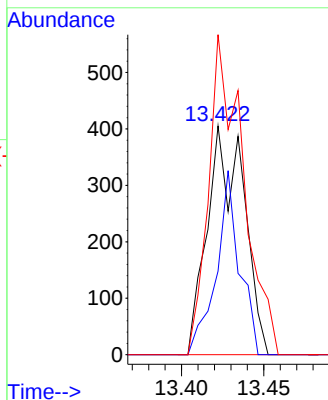
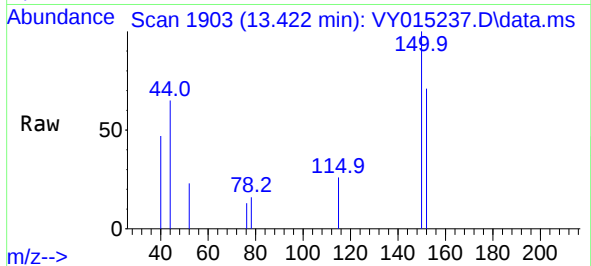




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.422 min Scan# 1903
Delta R.T. 0.000 min
Lab File: VY015237.D
Acq: 22 Aug 2023 12:19

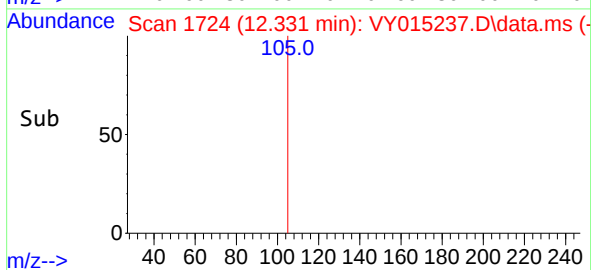
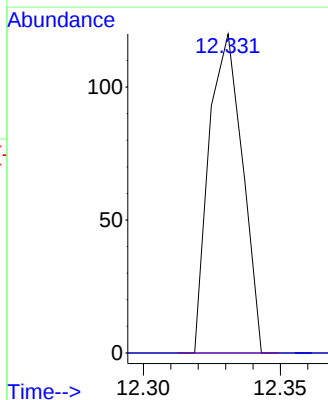
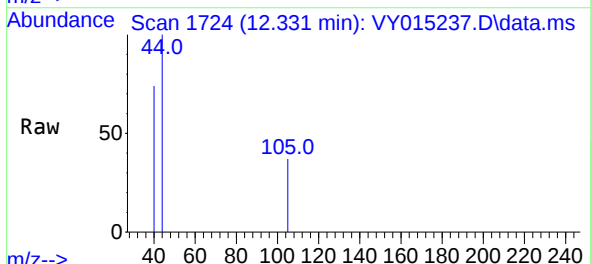
Instrument :
MSVOA_Y
ClientSampleId :
ETGI-340

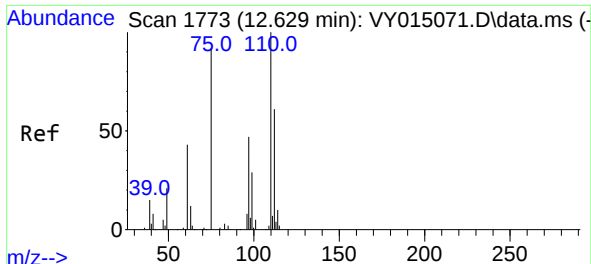
Tgt Ion:152 Resp: 623
Ion Ratio Lower Upper
152 100
115 51.0 28.8 86.5
150 131.9 0.0 348.8



#73
Isopropylbenzene
Concen: 2.546 ug/l
RT: 12.331 min Scan# 1724
Delta R.T. 0.006 min
Lab File: VY015237.D
Acq: 22 Aug 2023 12:19

Tgt Ion:105 Resp: 102
Ion Ratio Lower Upper
105 100
120 0.0 13.3 39.9#

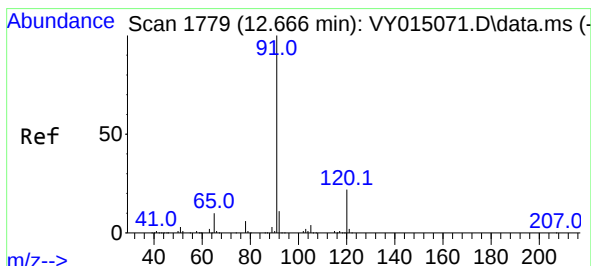
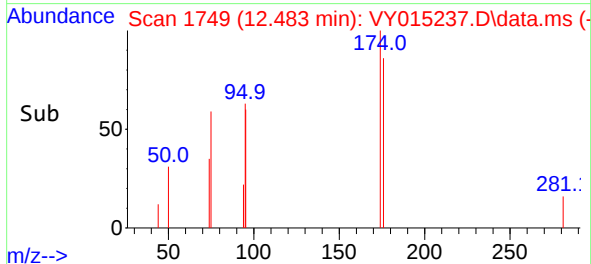
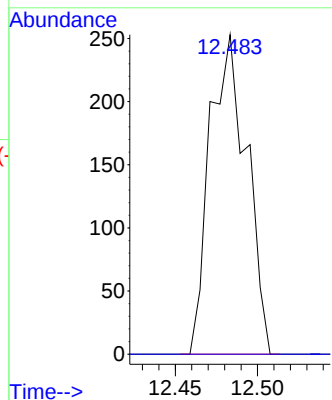
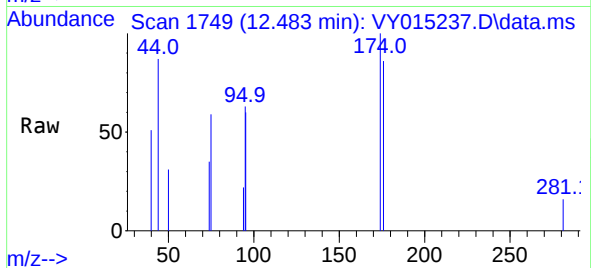




#76
1,2,3-Trichloropropane
Concen: 52.187 ug/l
RT: 12.483 min Scan# 1749
Delta R.T. -0.146 min
Lab File: VY015237.D
Acq: 22 Aug 2023 12:19

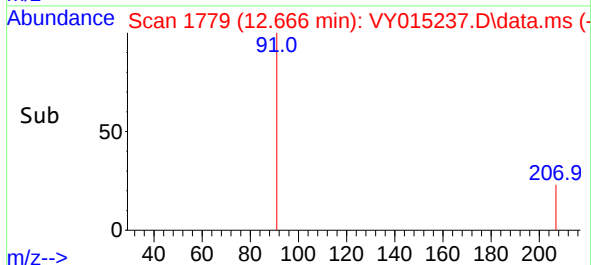
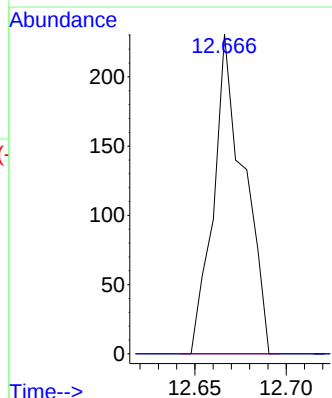
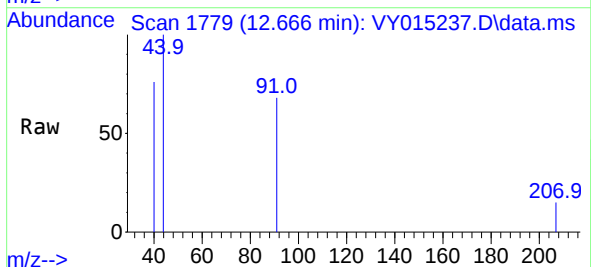
Instrument :
MSVOA_Y
ClientSampleId :
ETGI-340

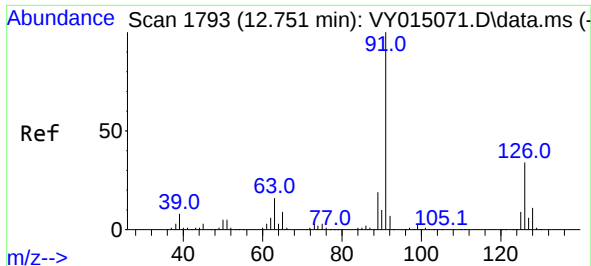
Tgt Ion: 75 Resp: 395
Ion Ratio Lower Upper
75 100
77 0.0 0.0 0.0



#78
n-propylbenzene
Concen: 5.634 ug/l
RT: 12.666 min Scan# 1779
Delta R.T. 0.000 min
Lab File: VY015237.D
Acq: 22 Aug 2023 12:19

Tgt Ion: 91 Resp: 268
Ion Ratio Lower Upper
91 100
120 0.0 11.5 34.4#





#79

2-Chlorotoluene

Concen: 3.061 ug/l

RT: 12.752 min Scan# 11

Delta R.T. 0.000 min

Lab File: VY015237.D

Acq: 22 Aug 2023 12:19

Instrument :

MSVOA_Y

ClientSampleId :

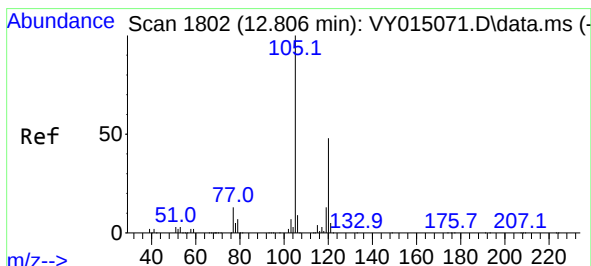
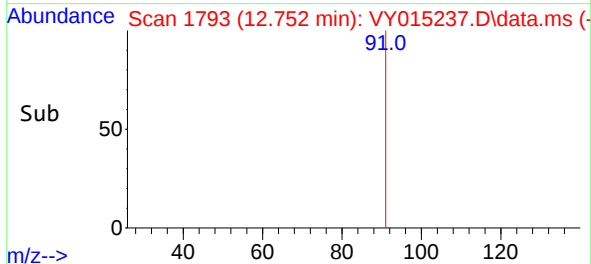
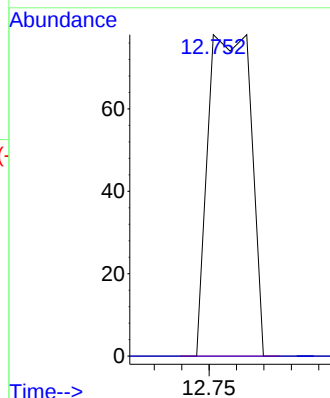
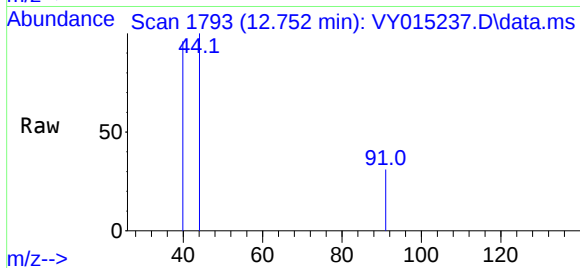
ETGI-340

Tgt Ion: 91 Resp: 84

Ion Ratio Lower Upper

91 100

126 0.0 17.3 51.7#



#80

1,3,5-Trimethylbenzene

Concen: 1.288 ug/l

RT: 12.806 min Scan# 1802

Delta R.T. -0.006 min

Lab File: VY015237.D

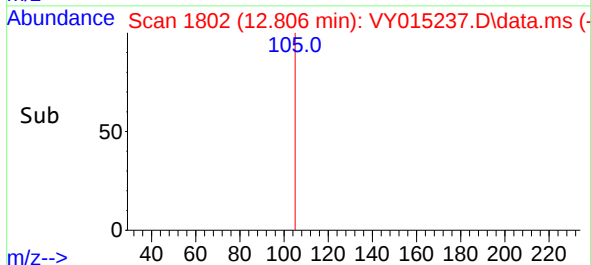
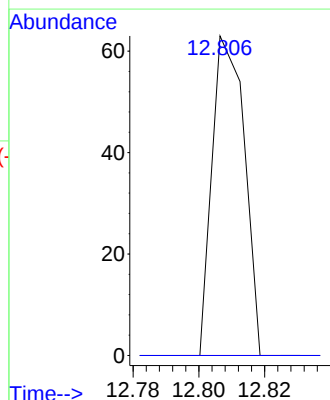
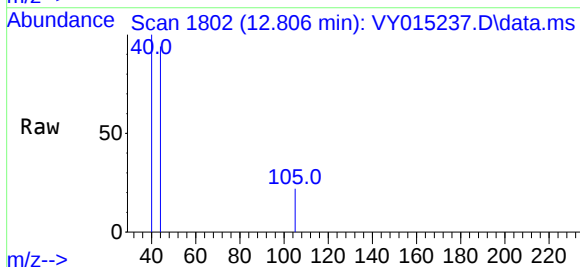
Acq: 22 Aug 2023 12:19

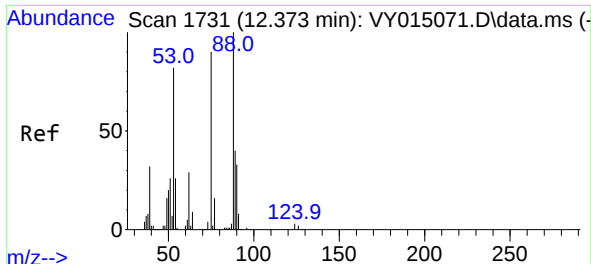
Tgt Ion: 105 Resp: 43

Ion Ratio Lower Upper

105 100

120 0.0 23.9 71.7#

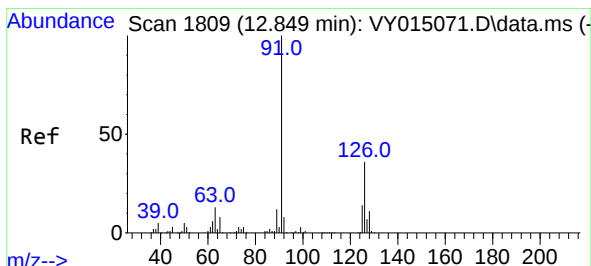
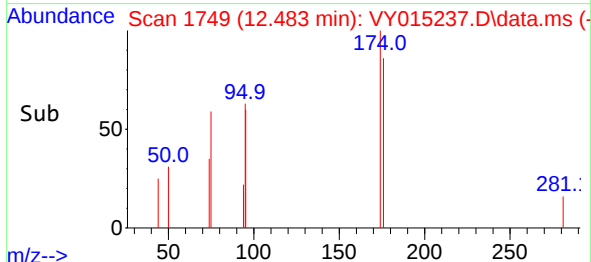
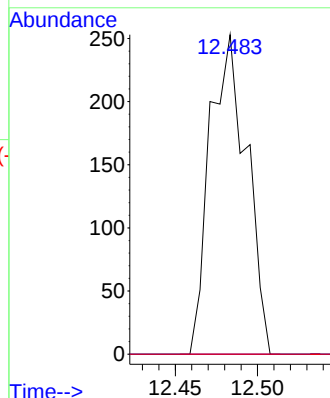
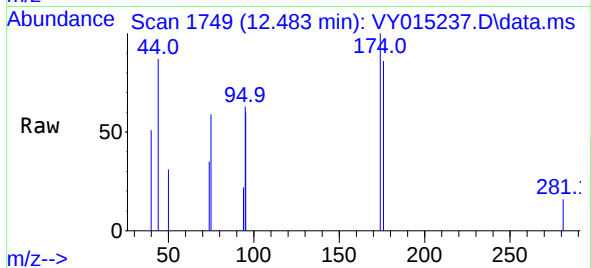




#81
trans-1,4-Dichloro-2-butene
Concen: 114.627 ug/l
RT: 12.483 min Scan# 11
Delta R.T. 0.110 min
Lab File: VY015237.D
Acq: 22 Aug 2023 12:19

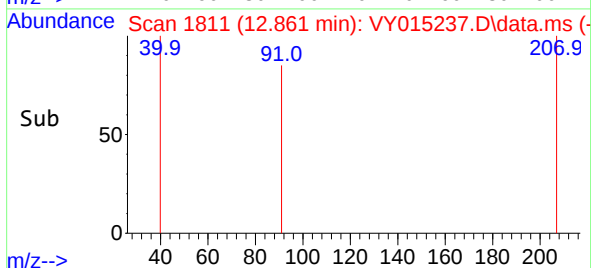
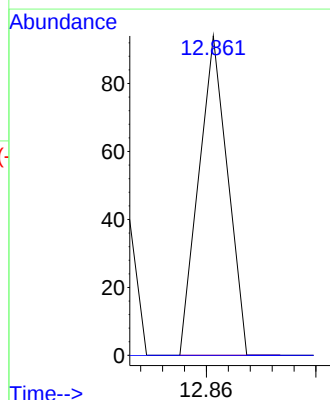
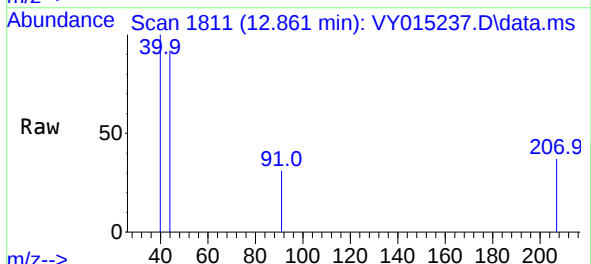
Instrument :
MSVOA_Y
ClientSampleId :
ETGI-340

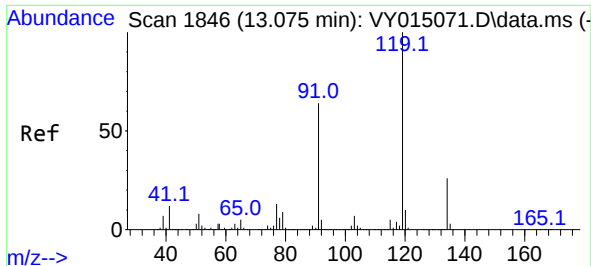
Tgt Ion: 75 Resp: 395
Ion Ratio Lower Upper
75 100
53 0.0 77.8 116.8#
89 0.0 37.4 56.0#



#82
4-Chlorotoluene
Concen: 1.199 ug/l
RT: 12.861 min Scan# 1811
Delta R.T. 0.006 min
Lab File: VY015237.D
Acq: 22 Aug 2023 12:19

Tgt Ion: 91 Resp: 34
Ion Ratio Lower Upper
91 100
126 0.0 17.2 51.6#

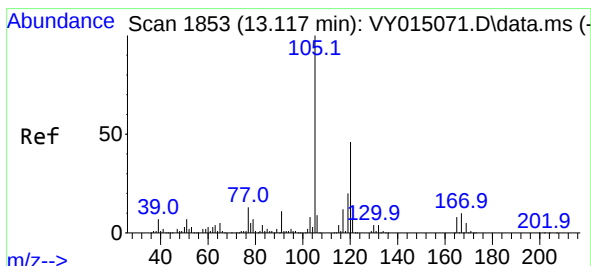
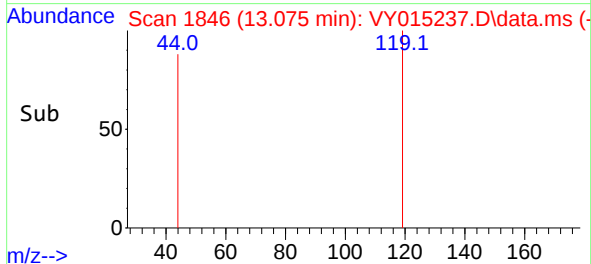
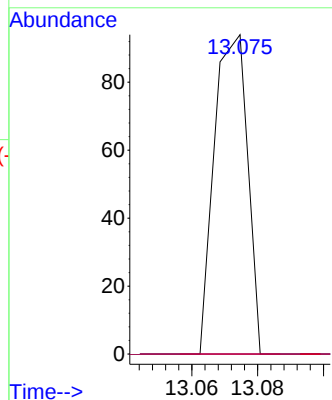
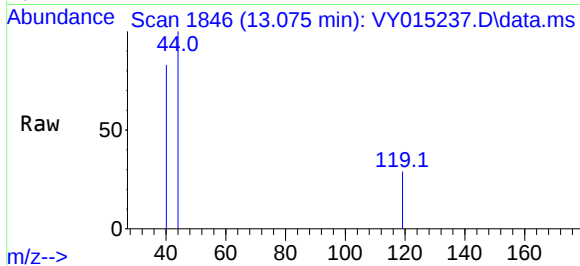




#83
tert-Butylbenzene
Concen: 2.161 ug/l
RT: 13.075 min Scan# 119
Delta R.T. 0.000 min
Lab File: VY015237.D
Acq: 22 Aug 2023 12:19

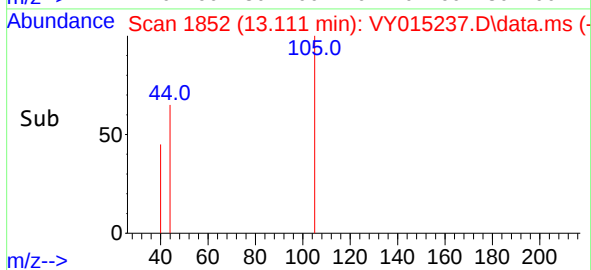
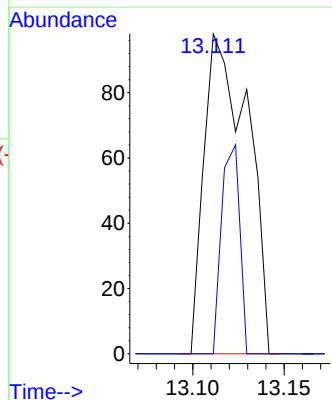
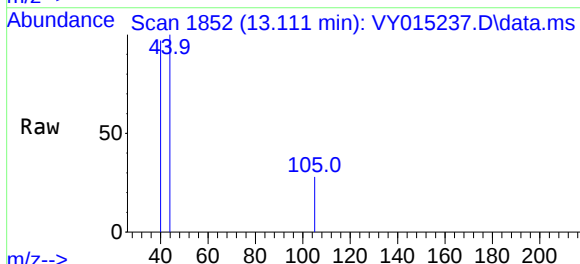
Instrument :
MSVOA_Y
ClientSampleId :
ETGI-340

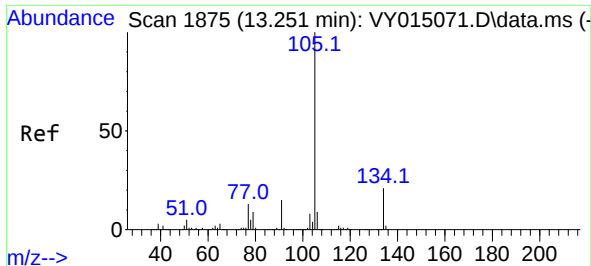
Tgt Ion:	119	Resp:	66
Ion	Ratio	Lower	Upper
119	100		
91	0.0	32.9	98.6#
134	0.0	13.0	38.9#



#84
1,2,4-Trimethylbenzene
Concen: 4.855 ug/l
RT: 13.111 min Scan# 1852
Delta R.T. -0.006 min
Lab File: VY015237.D
Acq: 22 Aug 2023 12:19

Tgt Ion:	105	Resp:	162
Ion	Ratio	Lower	Upper
105	100		
120	27.2	22.2	66.6

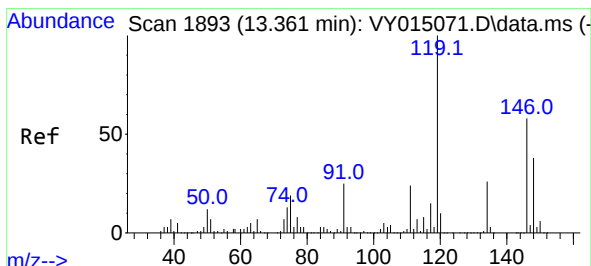
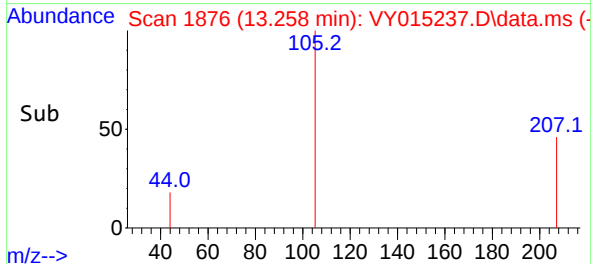
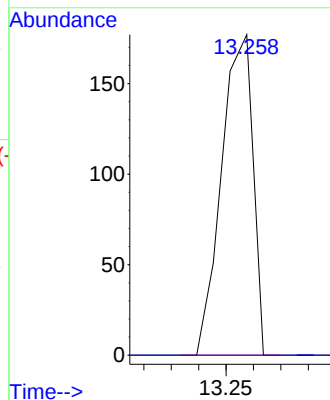
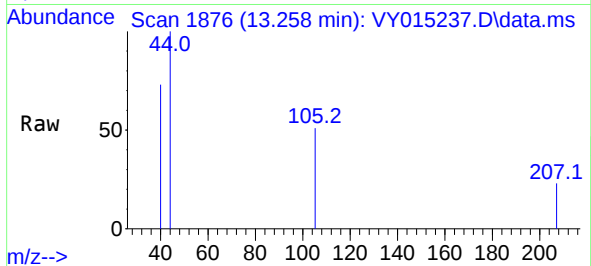




#85
sec-Butylbenzene
Concen: 3.151 ug/l
RT: 13.258 min Scan# 1876
Delta R.T. 0.006 min
Lab File: VY015237.D
Acq: 22 Aug 2023 12:19

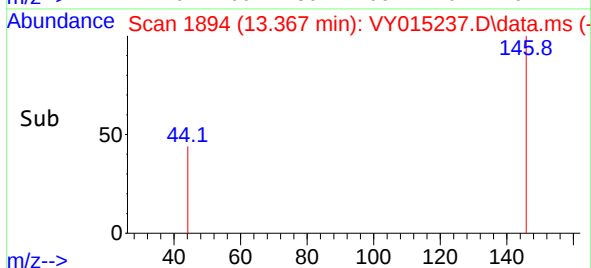
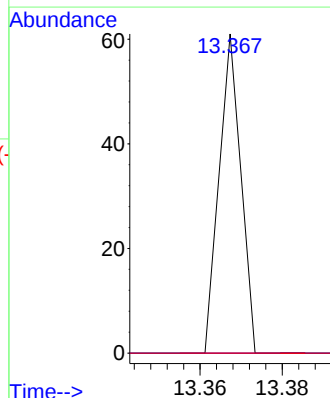
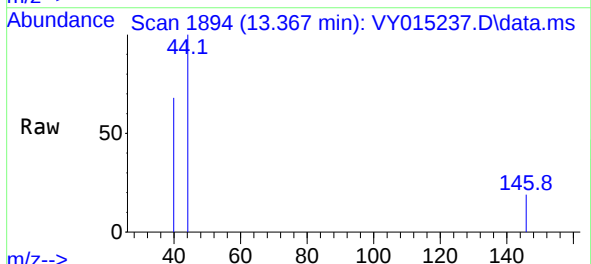
Instrument :
MSVOA_Y
ClientSampleId :
ETGI-340

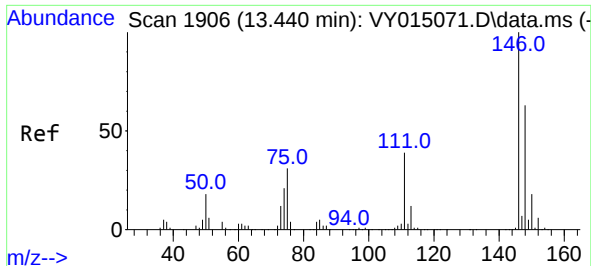
Tgt Ion:105 Resp: 141
Ion Ratio Lower Upper
105 100
134 0.0 10.2 30.6#



#87
1,3-Dichlorobenzene
Concen: 1.136 ug/l
RT: 13.367 min Scan# 1894
Delta R.T. 0.006 min
Lab File: VY015237.D
Acq: 22 Aug 2023 12:19

Tgt Ion:146 Resp: 22
Ion Ratio Lower Upper
146 100
111 0.0 19.4 58.2#
148 0.0 31.9 95.5#

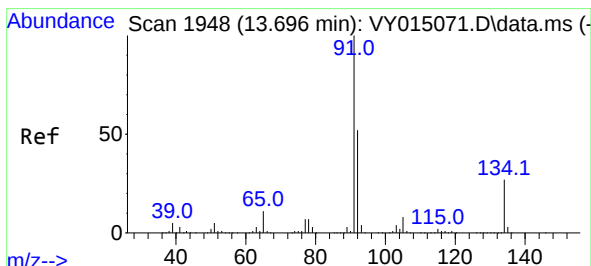
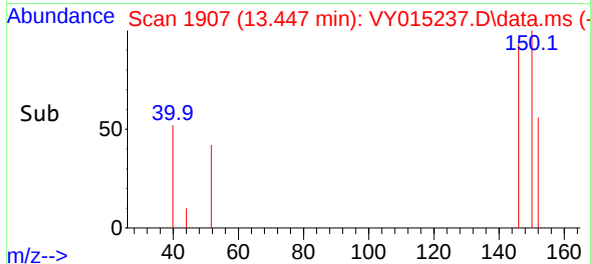
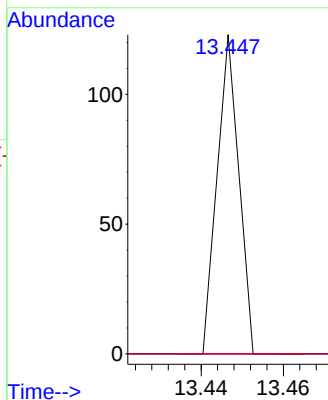
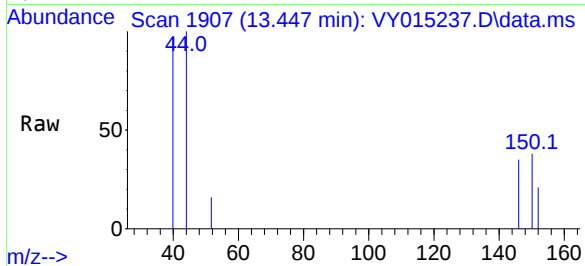




#88
1,4-Dichlorobenzene
Concen: 2.316 ug/l
RT: 13.447 min Scan# 1906
Delta R.T. 0.000 min
Lab File: VY015237.D
Acq: 22 Aug 2023 12:19

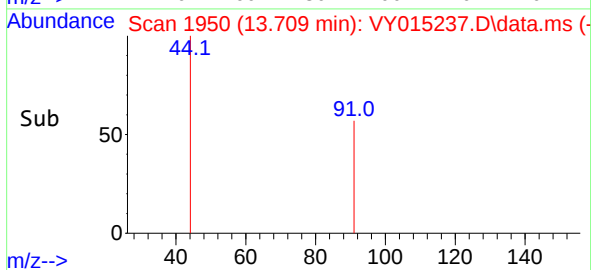
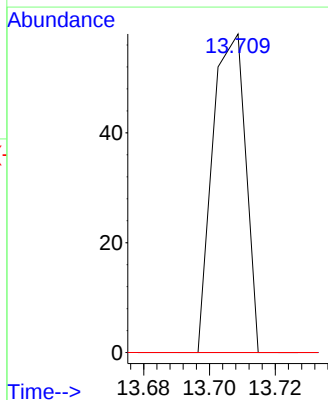
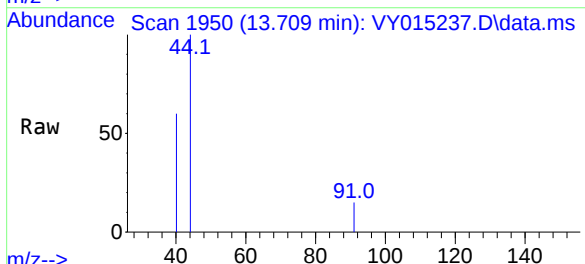
Instrument :
MSVOA_Y
ClientSampleId :
ETGI-340

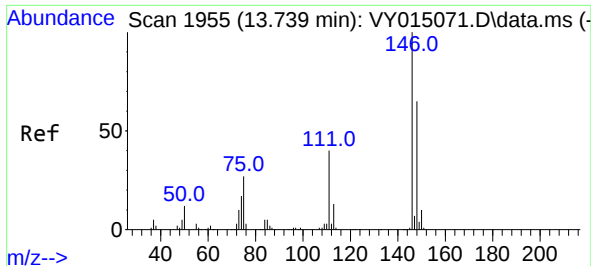
Tgt Ion:146 Resp: 45
Ion Ratio Lower Upper
146 100
111 0.0 18.9 56.7#
148 0.0 32.1 96.5#



#89
n-Butylbenzene
Concen: 1.143 ug/l
RT: 13.709 min Scan# 1950
Delta R.T. 0.012 min
Lab File: VY015237.D
Acq: 22 Aug 2023 12:19

Tgt Ion: 91 Resp: 40
Ion Ratio Lower Upper
91 100
92 0.0 25.4 76.0#
134 0.0 12.6 37.6#





#91

1,2-Dichlorobenzene

Concen: 1.326 ug/l

RT: 13.733 min Scan# 1954

Delta R.T. 0.000 min

Lab File: VY015237.D

Acq: 22 Aug 2023 12:19

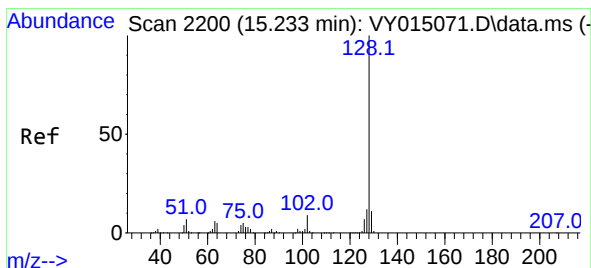
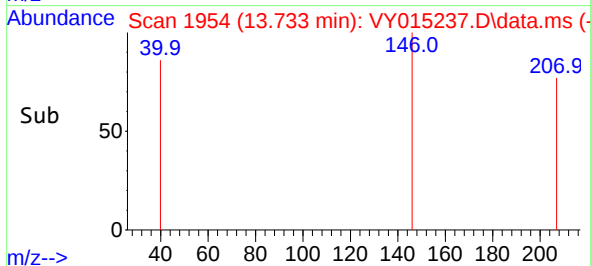
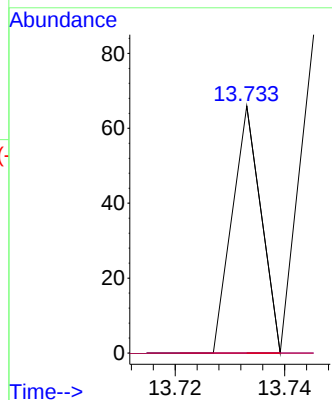
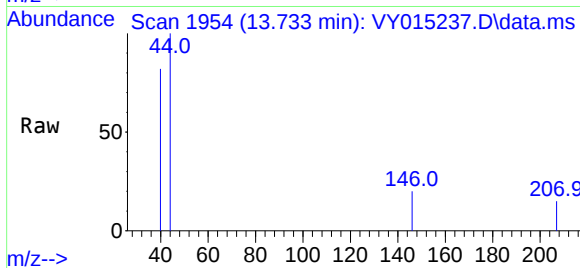
Instrument :

MSVOA_Y

ClientSampleId :

ETGI-340

Tgt Ion:146	Resp:	24
Ion	Ratio	Lower Upper
146	100	
111	0.0	19.7 59.0#
148	0.0	32.0 96.2#



#95

Naphthalene

Concen: 12.199 ug/l

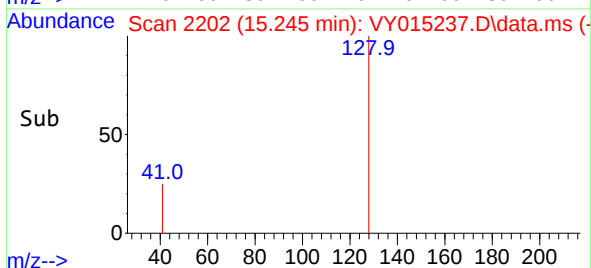
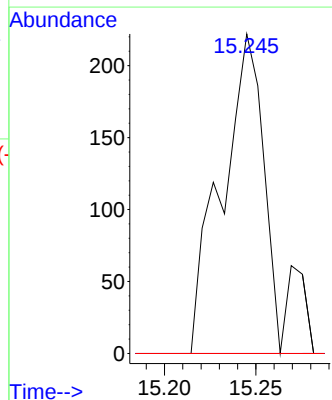
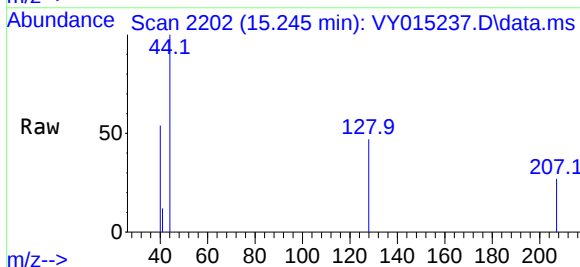
RT: 15.245 min Scan# 2202

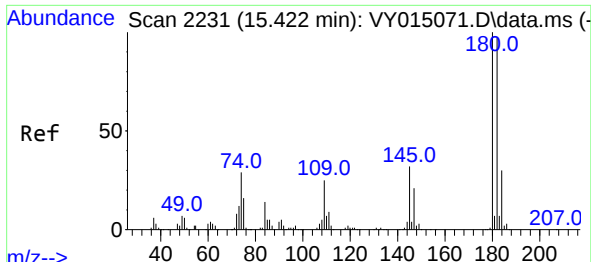
Delta R.T. 0.012 min

Lab File: VY015237.D

Acq: 22 Aug 2023 12:19

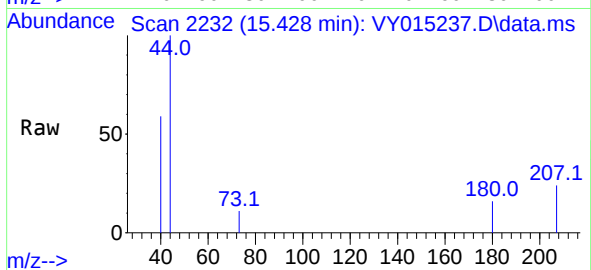
Tgt Ion:128	Resp:	353
Ion	Ratio	Lower Upper
128	100	
127	0.0	10.8 16.2#
129	0.0	8.6 13.0#





#96
 1,2,3-Trichlorobenzene
 Concen: 6.959 ug/l
 RT: 15.428 min Scan# 21
 Delta R.T. 0.006 min
 Lab File: VY015237.D
 Acq: 22 Aug 2023 12:19

Instrument :
 MSVOA_Y
 ClientSampleId :
 ETGI-340



Tgt Ion:	180	Resp:	73
Ion	Ratio	Lower	Upper
180	100		
182	27.4	47.3	141.8#
145	0.0	15.4	46.2#

