

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY072023\
 Data File : VY014722.D
 Acq On : 20 Jul 2023 15:41
 Operator : SY/MD
 Sample : 03664-01
 Misc : 5.02g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 AUD-1021-1020-COMP

Quant Time: Jul 21 01:31:20 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071323S.M
 Quant Title : SW846 8260
 QLast Update : Fri Jul 14 02:09:50 2023
 Response via : Initial Calibration

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

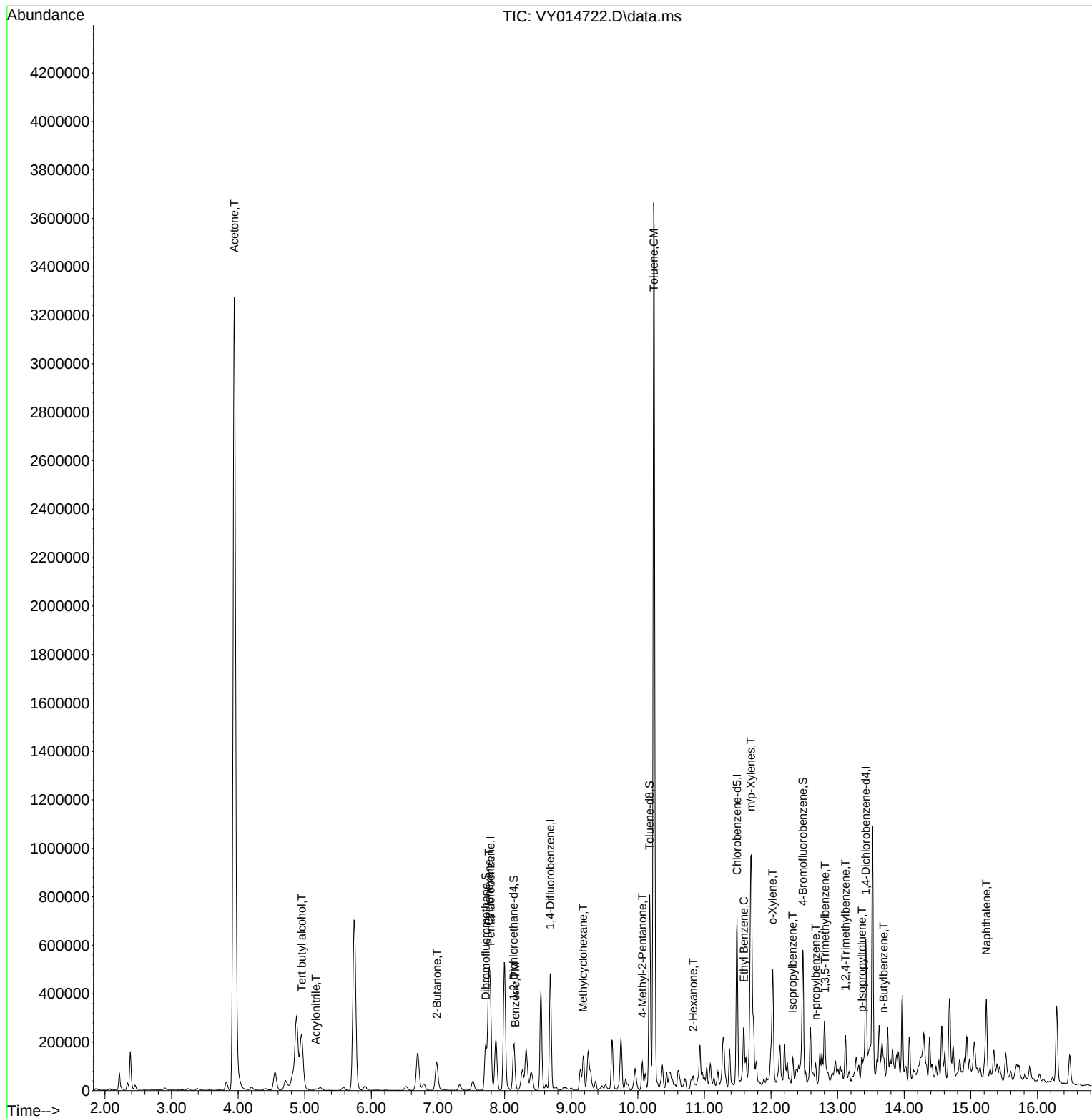
Internal Standards						
1) Pentafluorobenzene	7.789	168	239633	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.685	114	407775	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.489	117	359472	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.422	152	136904	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.136	65	146557	53.670	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 107.340%	
35) Dibromofluoromethane	7.715	113	130615	50.318	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 100.640%	
50) Toluene-d8	10.178	98	481311	50.293	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 100.580%	
62) 4-Bromofluorobenzene	12.477	95	162987	44.416	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 88.840%	
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	4.954	59	486608	1517.759	ug/l #	81
15) Acrylonitrile	5.167	53	7800	9.229	ug/l	99
16) Acetone	3.942	43	5741136	6634.630	ug/l	92
25) 2-Butanone	6.984	43	113054	89.302	ug/l	99
31) Cyclohexane	7.764	56	85594	18.882	ug/l #	55
39) Methylcyclohexane	9.179	83	40154	7.940	ug/l	90
40) Benzene	8.160	78	13145	1.191	ug/l	99
51) 4-Methyl-2-Pentanone	10.069	43	77283	28.911	ug/l	95
52) Toluene	10.239	92	1551992	219.681	ug/l	93
59) 2-Hexanone	10.831	43	41818	21.452	ug/l	82
67) Ethyl Benzene	11.593	91	152595	11.033	ug/l	98
68) m/p-Xylenes	11.696	106	243870	46.192	ug/l	97
69) o-Xylene	12.026	106	94203	18.319	ug/l	100
73) Isopropylbenzene	12.324	105	66528	6.206	ug/l	98
78) n-propylbenzene	12.672	91	62158	4.812	ug/l	97
80) 1,3,5-Trimethylbenzene	12.812	105	23237	2.596	ug/l	96
84) 1,2,4-Trimethylbenzene	13.117	105	104953	11.946	ug/l	96
86) p-Isopropyltoluene	13.367	119	19857	2.088	ug/l	97
89) n-Butylbenzene	13.690	91	47569	5.141	ug/l #	76
95) Naphthalene	15.232	128	238523	36.964	ug/l	99

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

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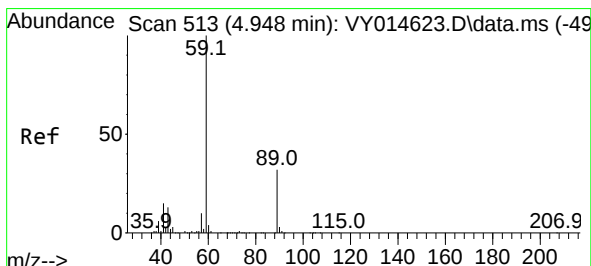
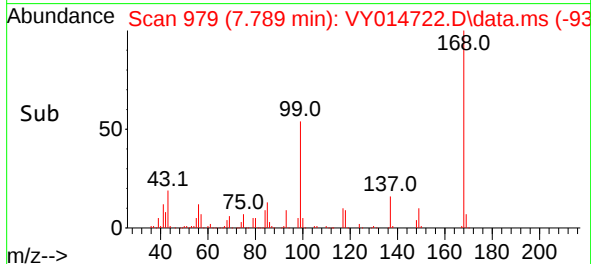
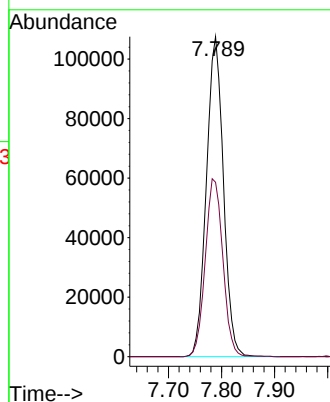
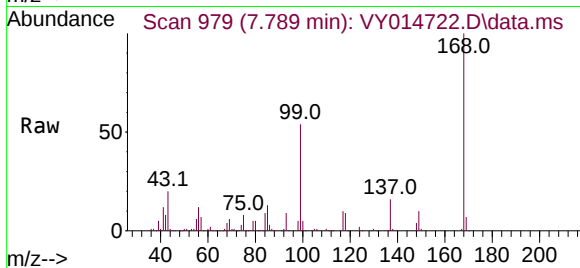




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.789 min Scan# 91
Delta R.T. -0.000 min
Lab File: VY014722.D
Acq: 20 Jul 2023 15:41

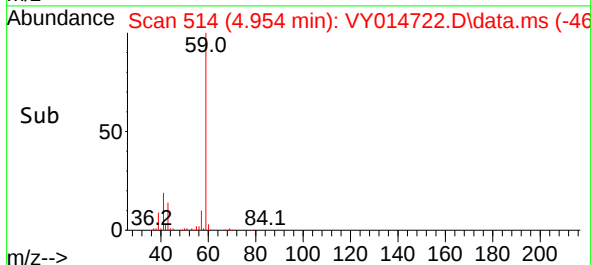
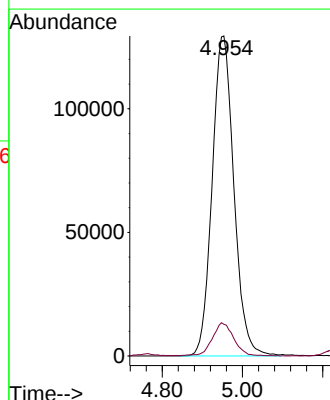
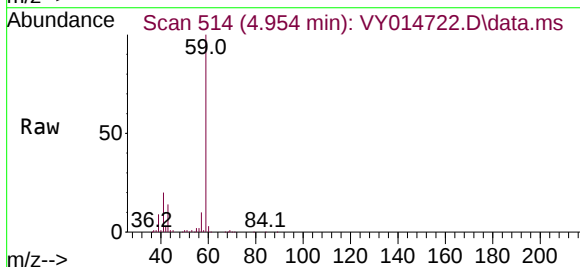
Instrument :
MSVOA_Y
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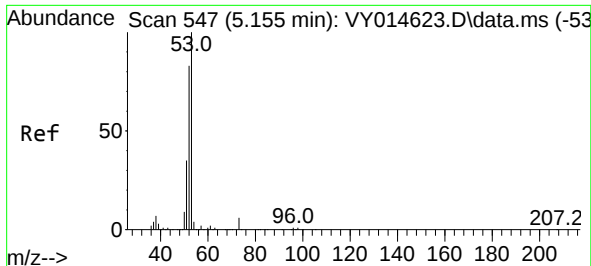
Tgt Ion:168 Resp: 239633
Ion Ratio Lower Upper
168 100
99 54.5 43.4 65.0



#11
Tert butyl alcohol
Concen: 1517.759 ug/l
RT: 4.954 min Scan# 514
Delta R.T. 0.006 min
Lab File: VY014722.D
Acq: 20 Jul 2023 15:41

Tgt Ion: 59 Resp: 486608
Ion Ratio Lower Upper
59 100
57 10.1 3.0 4.4#

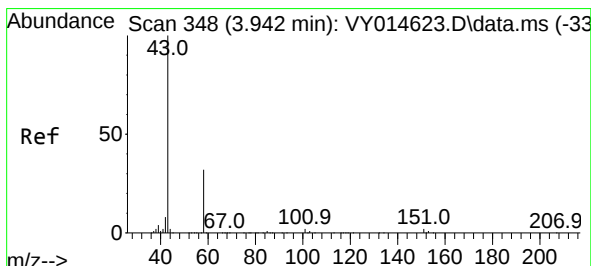
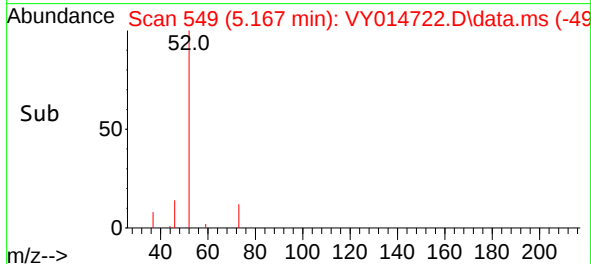
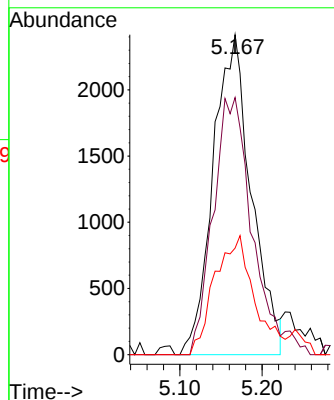
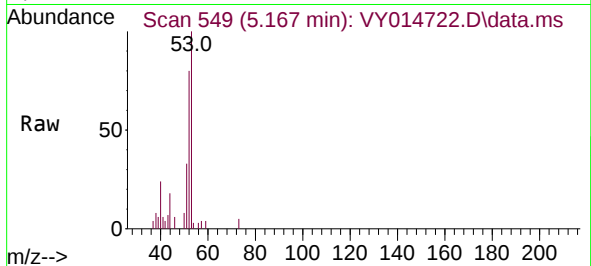




#15
Acrylonitrile
Concen: 9.229 ug/l
RT: 5.167 min Scan# 547
Delta R.T. 0.012 min
Lab File: VY014722.D
Acq: 20 Jul 2023 15:41

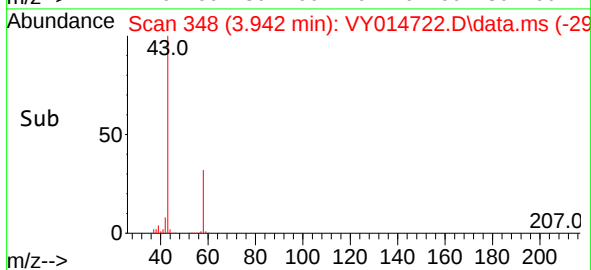
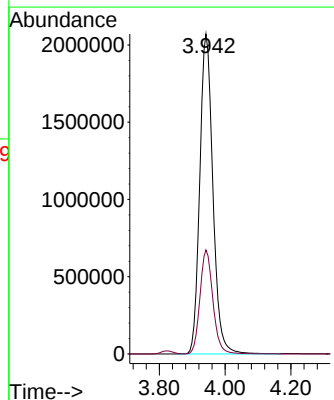
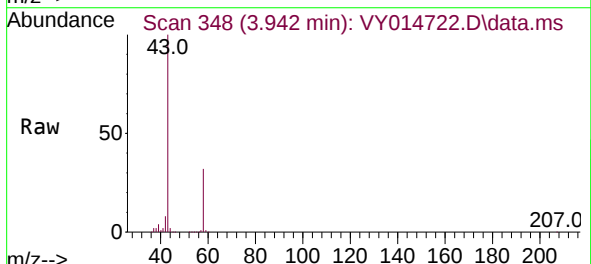
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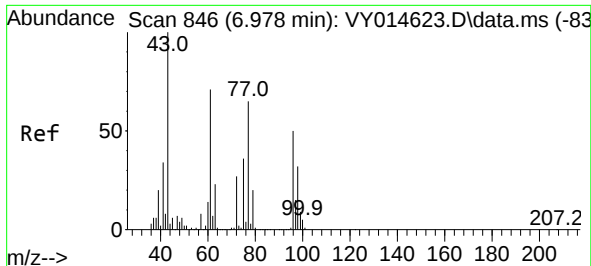
Tgt Ion: 53	Resp: 7800	
Ion Ratio	Lower	Upper
53	100	
52	82.9	66.9 100.3
51	38.7	29.8 44.6



#16
Acetone
Concen: 6634.630 ug/l
RT: 3.942 min Scan# 348
Delta R.T. -0.000 min
Lab File: VY014722.D
Acq: 20 Jul 2023 15:41

Tgt Ion: 43	Resp: 5741136
Ion Ratio	Lower Upper
43 100	
58 32.5	22.7 34.1

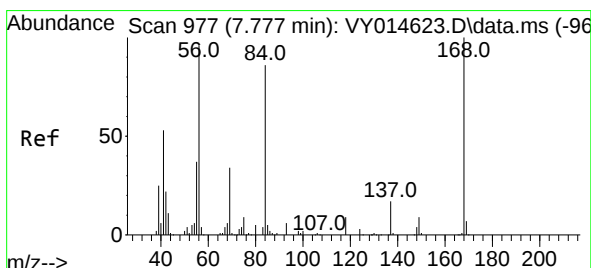
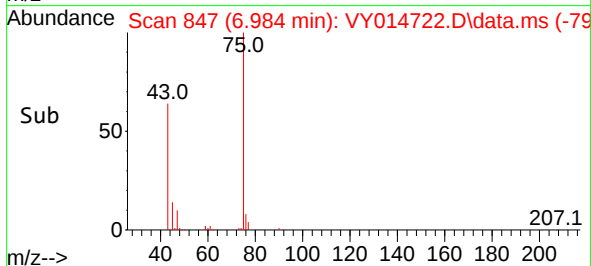
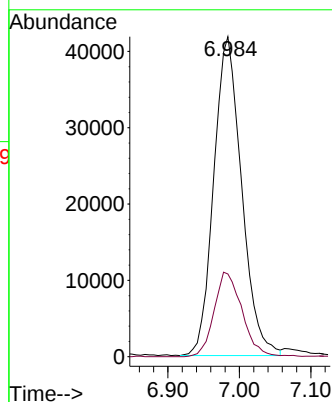
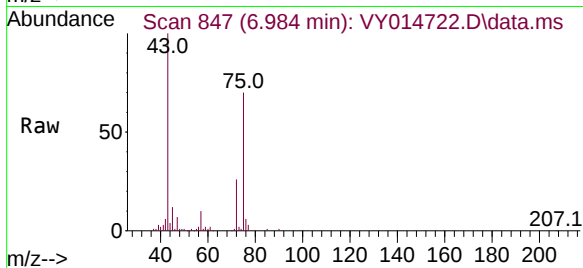




#25
2-Butanone
Concen: 89.302 ug/l
RT: 6.984 min Scan# 846
Delta R.T. 0.006 min
Lab File: VY014722.D
Acq: 20 Jul 2023 15:41

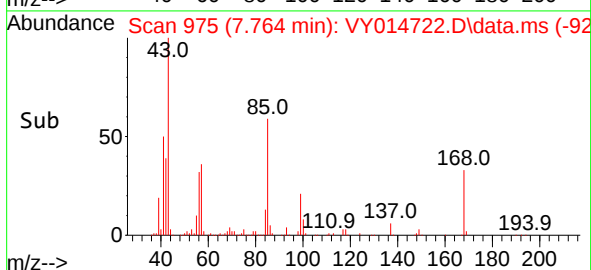
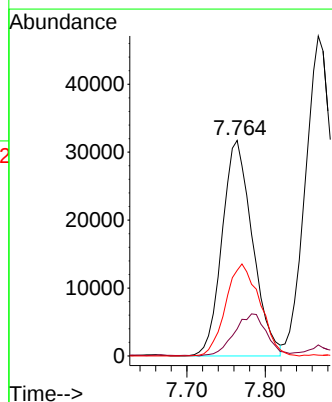
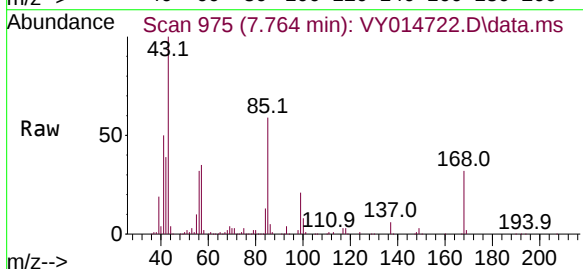
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ClientSampleId :
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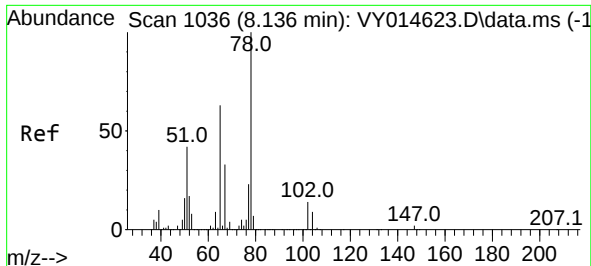
Tgt Ion: 43 Resp: 113054
Ion Ratio Lower Upper
43 100
72 26.0 20.5 30.7



#31
Cyclohexane
Concen: 18.882 ug/l
RT: 7.764 min Scan# 975
Delta R.T. -0.013 min
Lab File: VY014722.D
Acq: 20 Jul 2023 15:41

Tgt Ion: 56 Resp: 85594
Ion Ratio Lower Upper
56 100
69 12.3 27.8 41.6#
84 39.7 66.4 99.6#

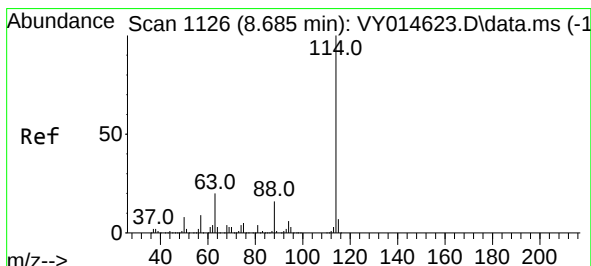
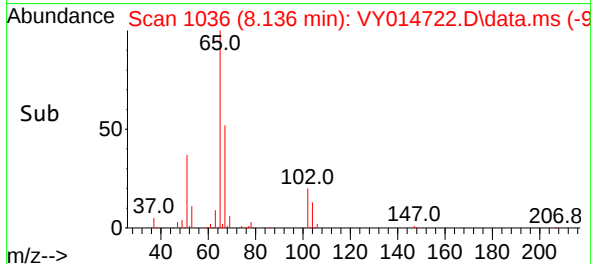
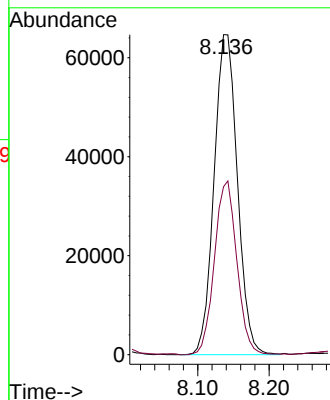
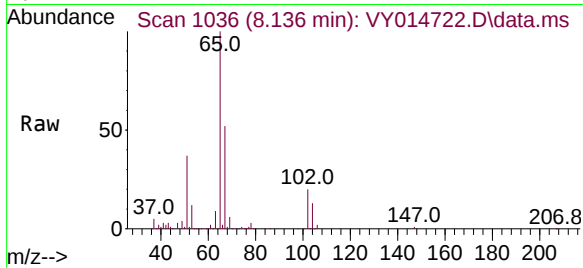




#33
 1,2-Dichloroethane-d4
 Concen: 53.670 ug/l
 RT: 8.136 min Scan# 1036
 Delta R.T. 0.000 min
 Lab File: VY014722.D
 Acq: 20 Jul 2023 15:41

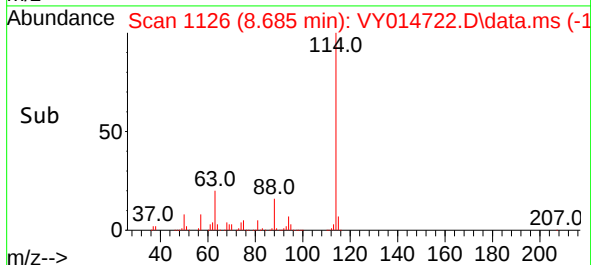
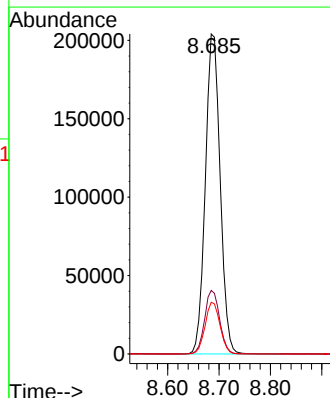
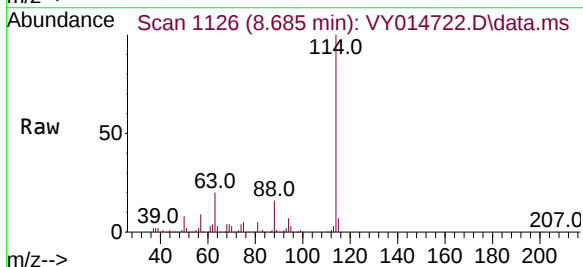
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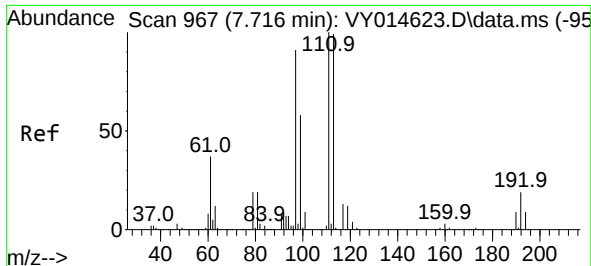
Tgt Ion: 65 Resp: 146557
 Ion Ratio Lower Upper
 65 100
 67 52.2 0.0 101.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.685 min Scan# 1126
 Delta R.T. -0.000 min
 Lab File: VY014722.D
 Acq: 20 Jul 2023 15:41

Tgt Ion: 114 Resp: 407775
 Ion Ratio Lower Upper
 114 100
 63 19.9 0.0 42.4
 88 16.2 0.0 30.6

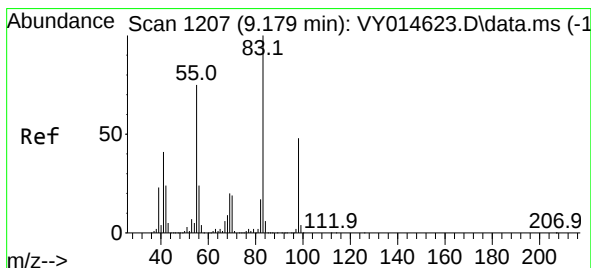
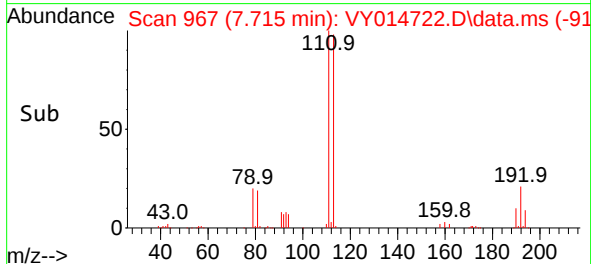
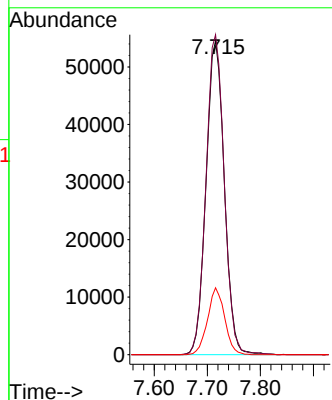
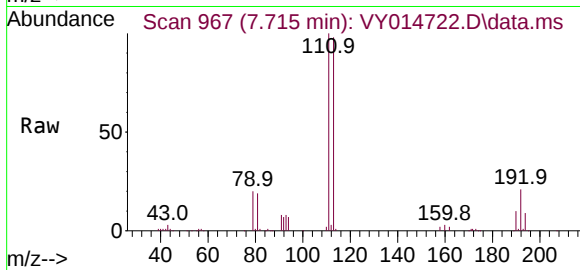




#35
Dibromofluoromethane
Concen: 50.318 ug/l
RT: 7.715 min Scan# 90
Delta R.T. -0.001 min
Lab File: VY014722.D
Acq: 20 Jul 2023 15:41

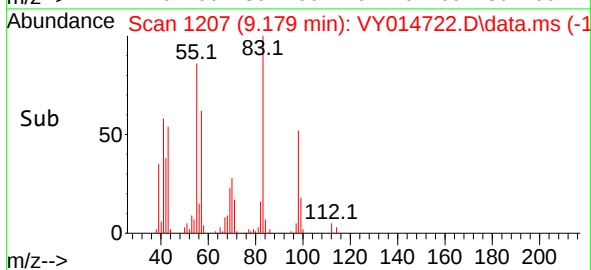
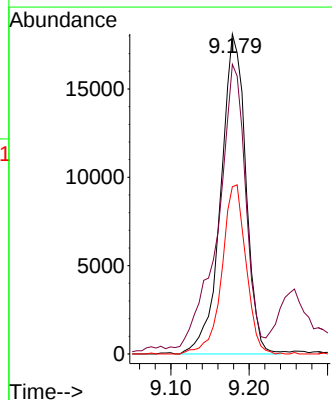
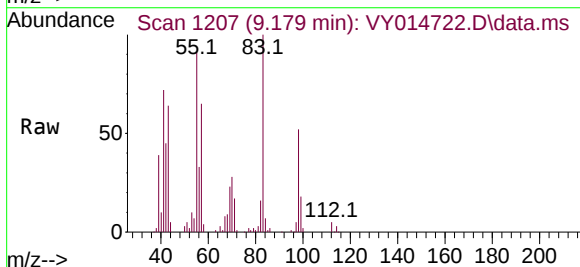
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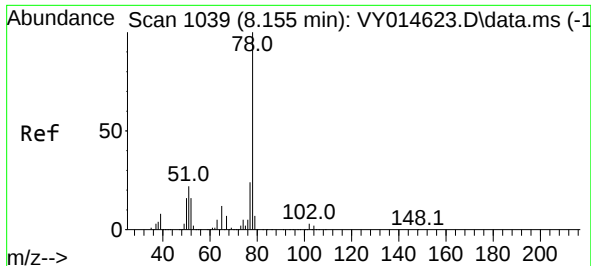
Tgt Ion:113 Resp: 130615
Ion Ratio Lower Upper
113 100
111 101.5 81.3 121.9
192 20.0 16.9 25.3



#39
Methylcyclohexane
Concen: 7.940 ug/l
RT: 9.179 min Scan# 1207
Delta R.T. -0.000 min
Lab File: VY014722.D
Acq: 20 Jul 2023 15:41

Tgt Ion: 83 Resp: 40154
Ion Ratio Lower Upper
83 100
55 88.1 63.0 94.4
98 52.2 37.4 56.2

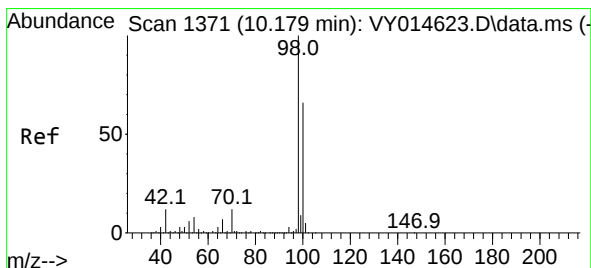
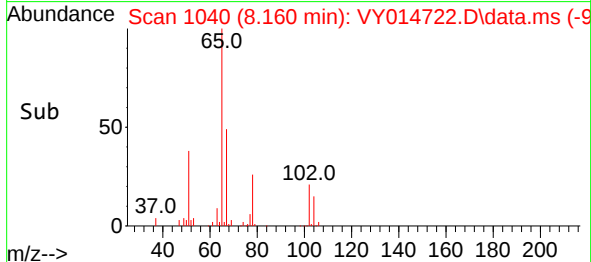
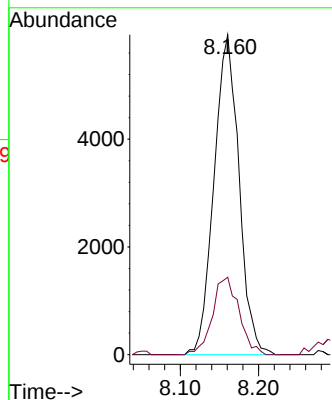
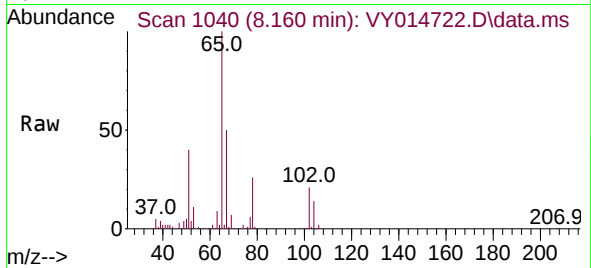




#40
Benzene
Concen: 1.191 ug/l
RT: 8.160 min Scan# 1039
Delta R.T. 0.005 min
Lab File: VY014722.D
Acq: 20 Jul 2023 15:41

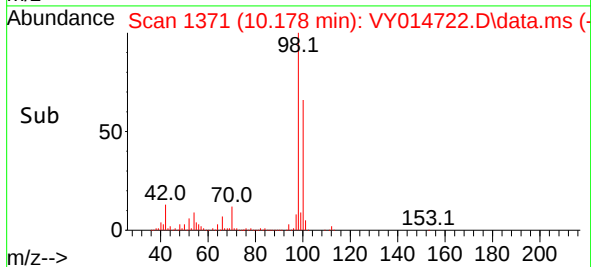
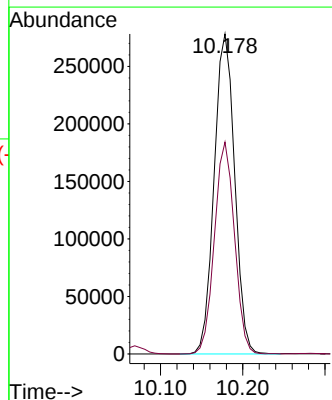
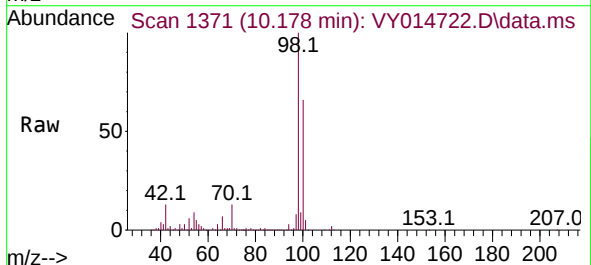
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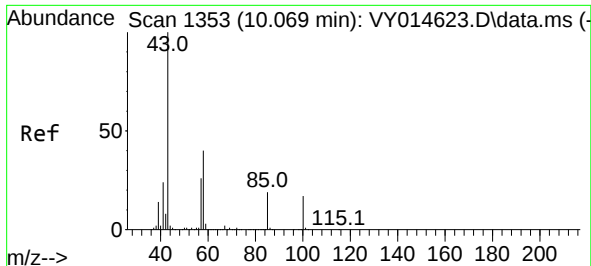
Tgt Ion: 78 Resp: 13145
Ion Ratio Lower Upper
78 100
77 24.2 19.0 28.6



#50
Toluene-d8
Concen: 50.293 ug/l
RT: 10.178 min Scan# 1371
Delta R.T. -0.001 min
Lab File: VY014722.D
Acq: 20 Jul 2023 15:41

Tgt Ion: 98 Resp: 481311
Ion Ratio Lower Upper
98 100
100 64.8 50.1 75.1

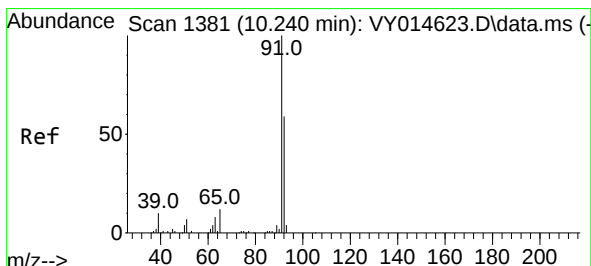
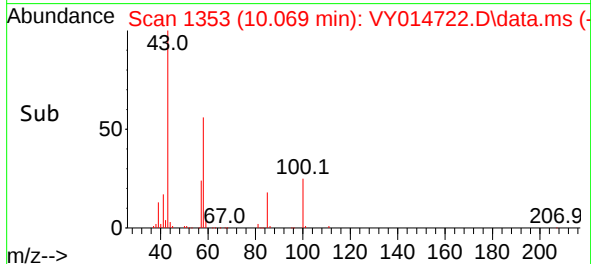
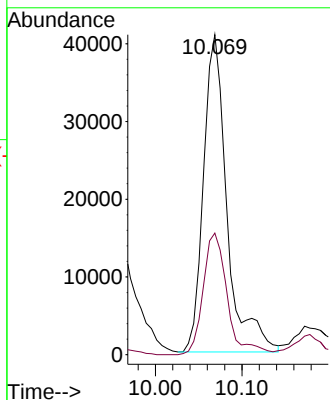
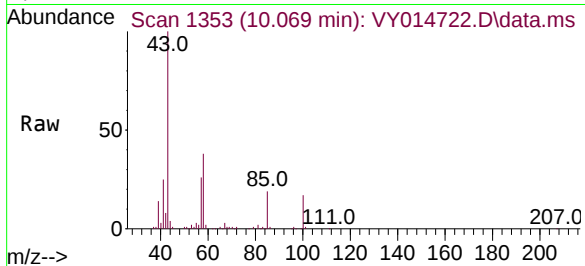




#51
4-Methyl-2-Pentanone
Concen: 28.911 ug/l
RT: 10.069 min Scan# 1353
Delta R.T. -0.000 min
Lab File: VY014722.D
Acq: 20 Jul 2023 15:41

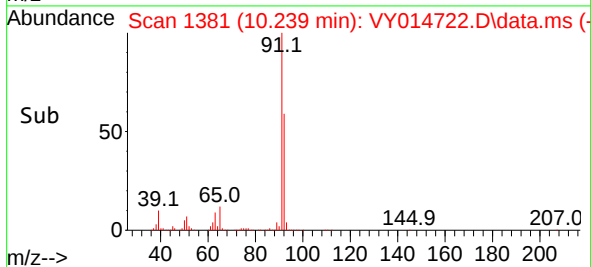
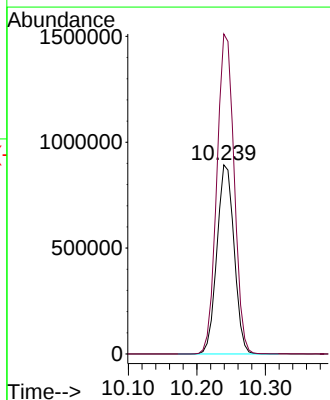
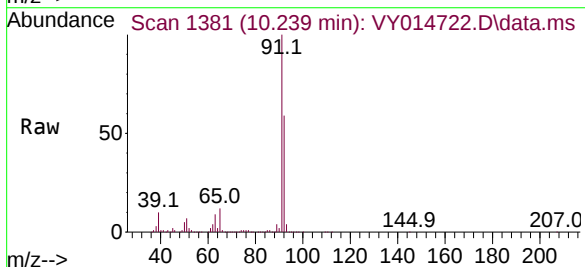
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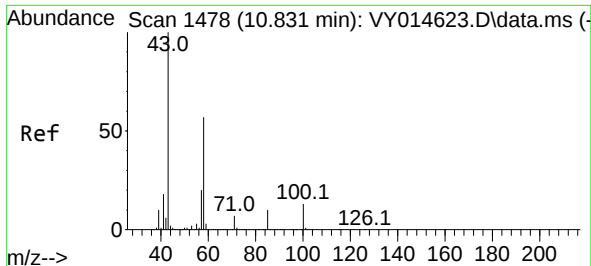
Tgt Ion: 43 Resp: 77283
Ion Ratio Lower Upper
43 100
58 39.1 29.0 43.6



#52
Toluene
Concen: 219.681 ug/l
RT: 10.239 min Scan# 1381
Delta R.T. -0.001 min
Lab File: VY014722.D
Acq: 20 Jul 2023 15:41

Tgt Ion: 92 Resp: 1551992
Ion Ratio Lower Upper
92 100
91 170.4 143.8 215.6

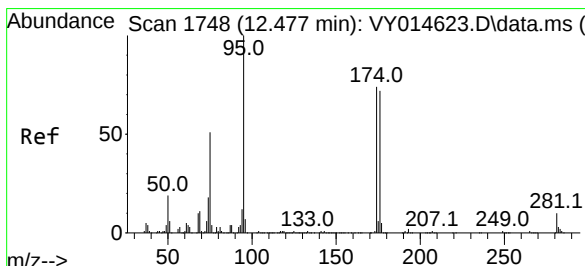
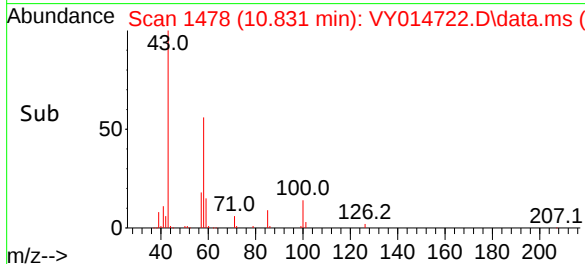
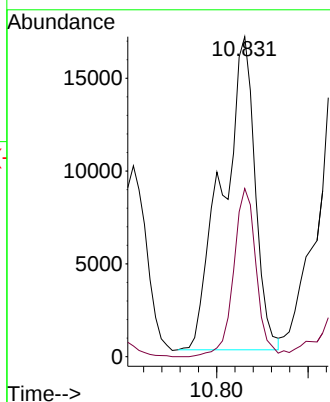
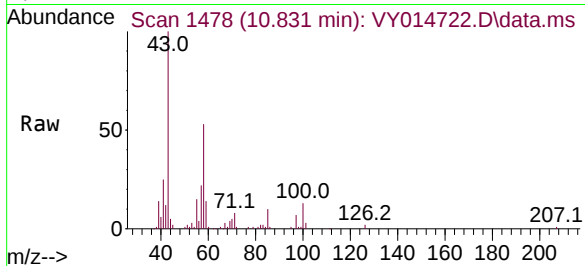




#59
2-Hexanone
Concen: 21.452 ug/l
RT: 10.831 min Scan# 1478
Delta R.T. -0.000 min
Lab File: VY014722.D
Acq: 20 Jul 2023 15:41

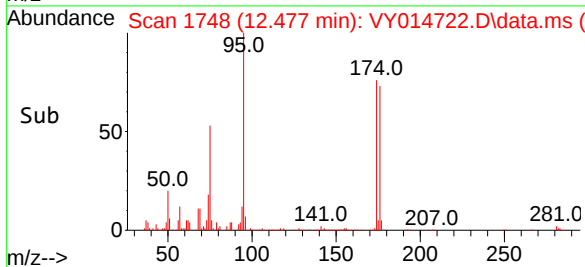
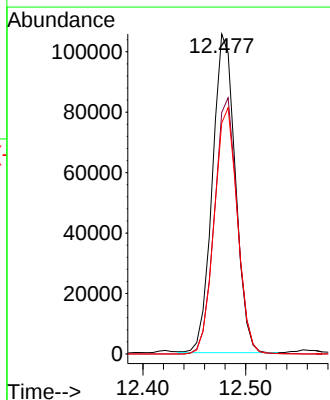
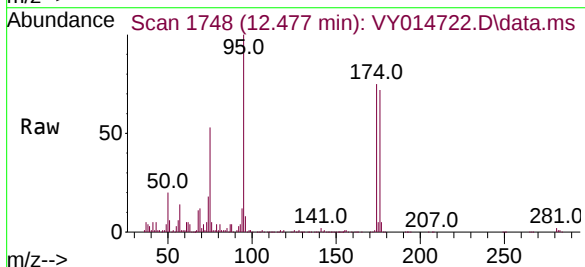
Instrument :
MSVOA_Y
ClientSampleId :
AUD-1021-1020-COMP

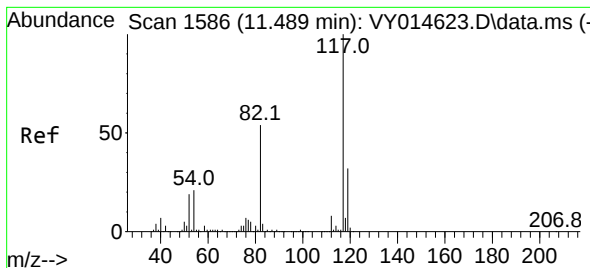
Tgt Ion: 43 Resp: 41818
Ion Ratio Lower Upper
43 100
58 37.6 25.1 75.3



#62
4-Bromofluorobenzene
Concen: 44.416 ug/l
RT: 12.477 min Scan# 1748
Delta R.T. -0.000 min
Lab File: VY014722.D
Acq: 20 Jul 2023 15:41

Tgt Ion: 95 Resp: 162987
Ion Ratio Lower Upper
95 100
174 80.0 0.0 178.2
176 78.1 0.0 173.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.489 min Scan# 11

Delta R.T. 0.000 min

Lab File: VY014722.D

Acq: 20 Jul 2023 15:41

Instrument :

MSVOA_Y

ClientSampleId :

AUD-1021-1020-COMP

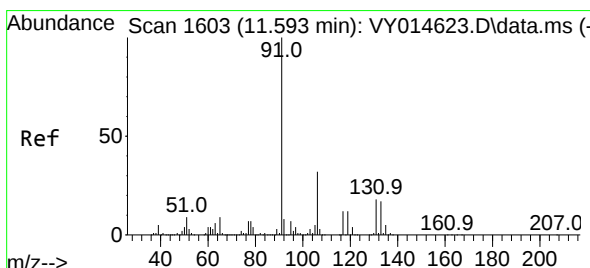
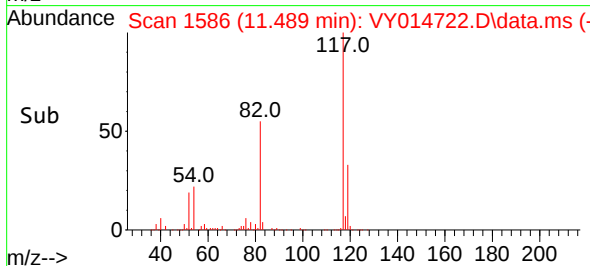
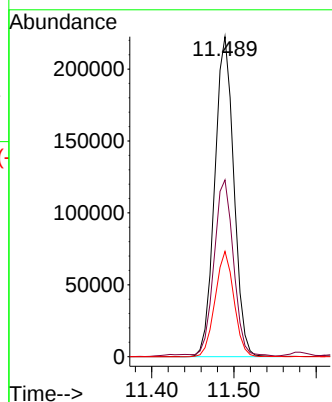
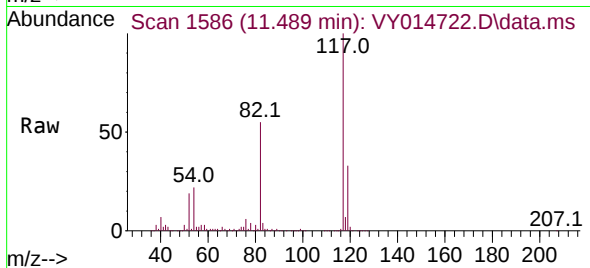
Tgt Ion:117 Resp: 359472

Ion Ratio Lower Upper

117 100

82 54.9 43.4 65.0

119 32.9 26.3 39.5



#67

Ethyl Benzene

Concen: 11.033 ug/l

RT: 11.593 min Scan# 1603

Delta R.T. -0.000 min

Lab File: VY014722.D

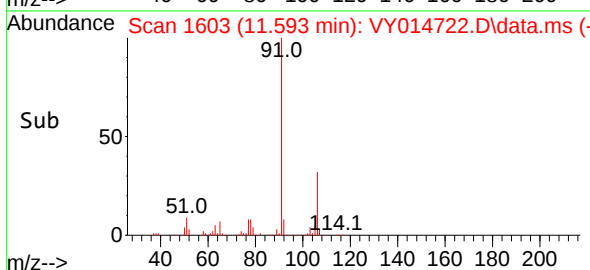
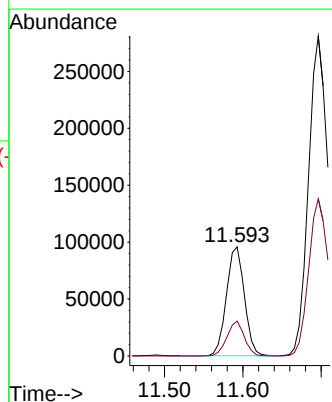
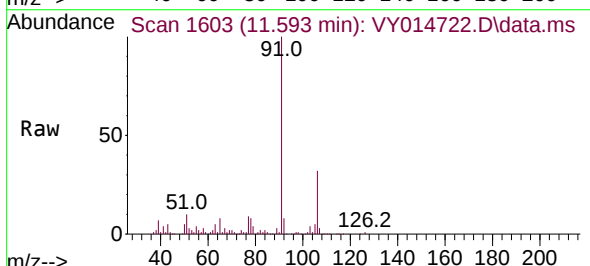
Acq: 20 Jul 2023 15:41

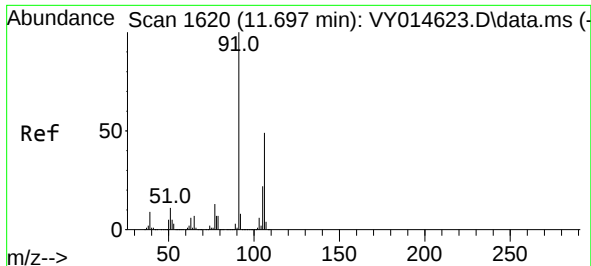
Tgt Ion: 91 Resp: 152595

Ion Ratio Lower Upper

91 100

106 32.1 24.6 36.8

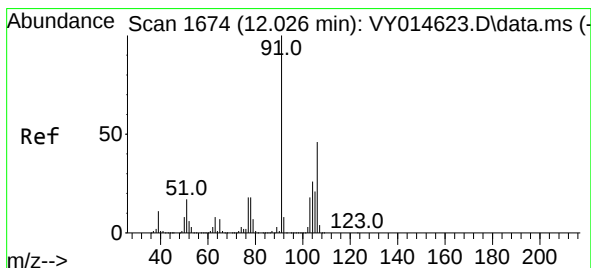
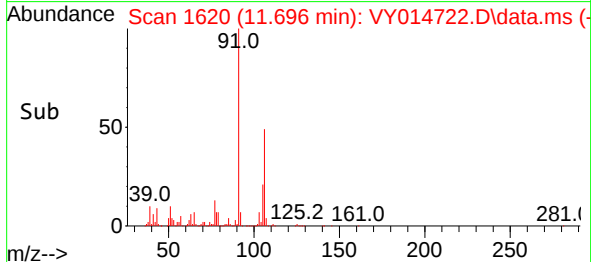
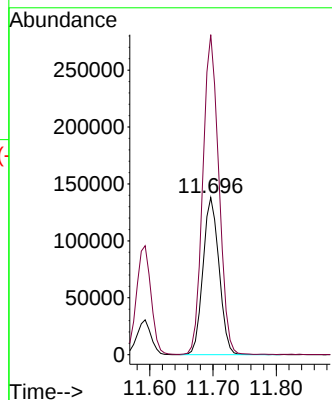
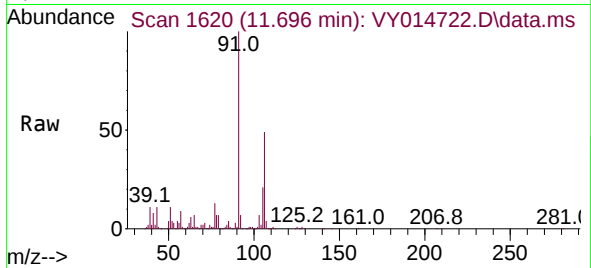




#68
m/p-Xylenes
Concen: 46.192 ug/l
RT: 11.696 min Scan# 1620
Delta R.T. -0.001 min
Lab File: VY014722.D
Acq: 20 Jul 2023 15:41

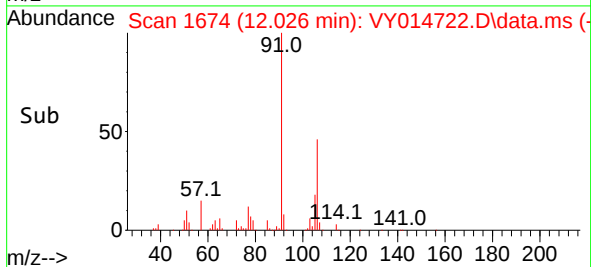
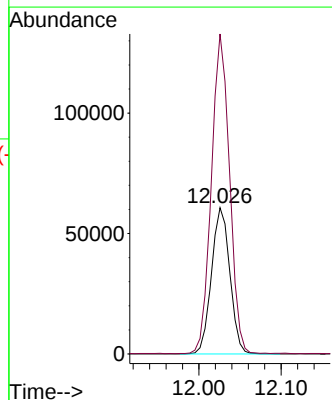
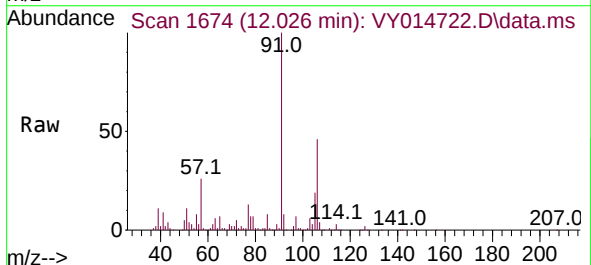
Instrument :
MSVOA_Y
ClientSampleId :
AUD-1021-1020-COMP

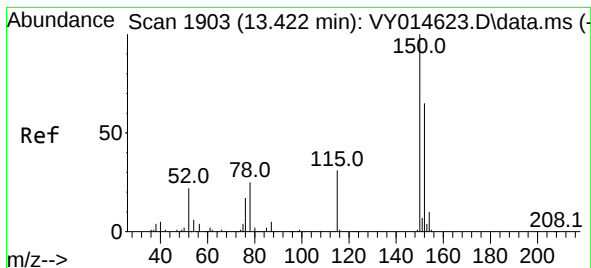
Tgt Ion:106 Resp: 243870
Ion Ratio Lower Upper
106 100
91 203.3 166.1 249.1



#69
o-Xylene
Concen: 18.319 ug/l
RT: 12.026 min Scan# 1674
Delta R.T. -0.000 min
Lab File: VY014722.D
Acq: 20 Jul 2023 15:41

Tgt Ion:106 Resp: 94203
Ion Ratio Lower Upper
106 100
91 216.2 108.1 324.3

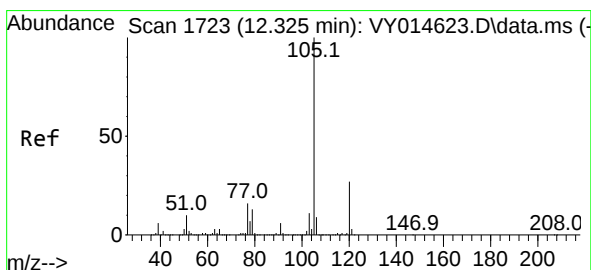
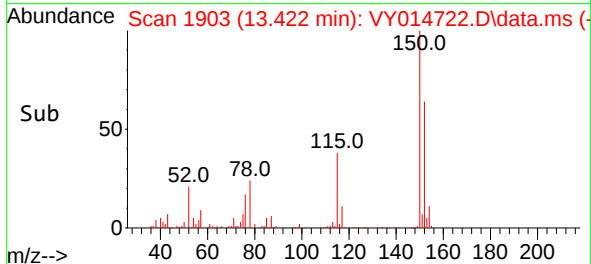
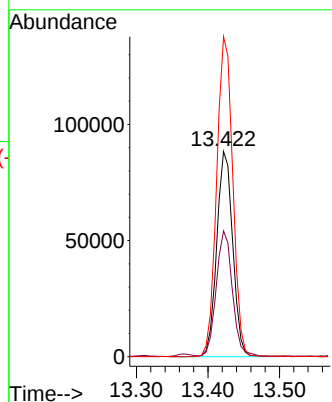
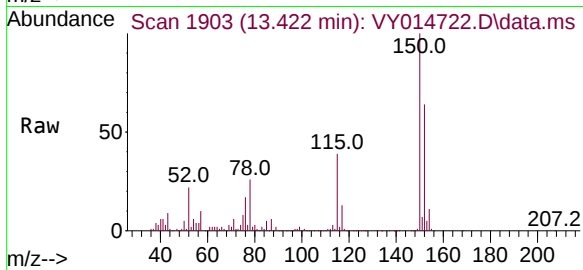




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.422 min Scan# 1903
Delta R.T. -0.000 min
Lab File: VY014722.D
Acq: 20 Jul 2023 15:41

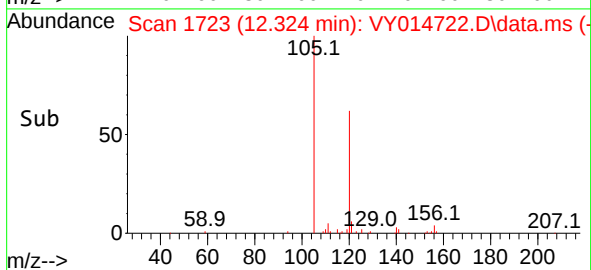
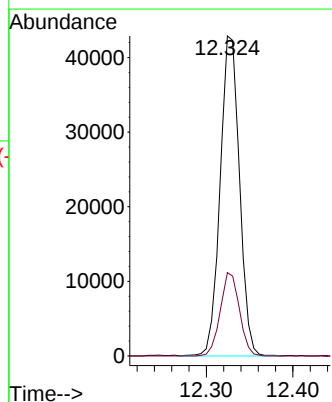
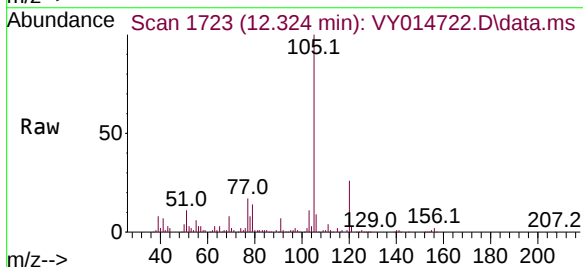
Instrument :
MSVOA_Y
ClientSampleId :
AUD-1021-1020-COMP

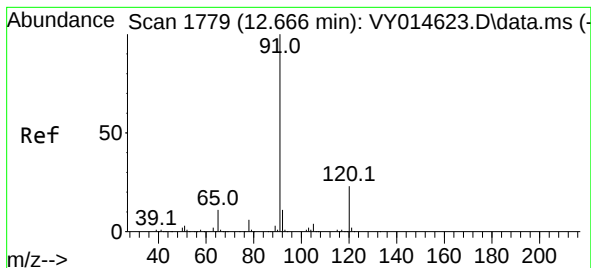
Tgt Ion:152 Resp: 136904
Ion Ratio Lower Upper
152 100
115 61.4 28.8 86.5
150 157.5 0.0 348.8



#73
Isopropylbenzene
Concen: 6.206 ug/l
RT: 12.324 min Scan# 1723
Delta R.T. -0.001 min
Lab File: VY014722.D
Acq: 20 Jul 2023 15:41

Tgt Ion:105 Resp: 66528
Ion Ratio Lower Upper
105 100
120 25.7 13.3 39.9





#78

n-propylbenzene

Concen: 4.812 ug/l

RT: 12.672 min Scan# 11

Delta R.T. 0.006 min

Lab File: VY014722.D

Acq: 20 Jul 2023 15:41

Instrument :

MSVOA_Y

ClientSampleId :

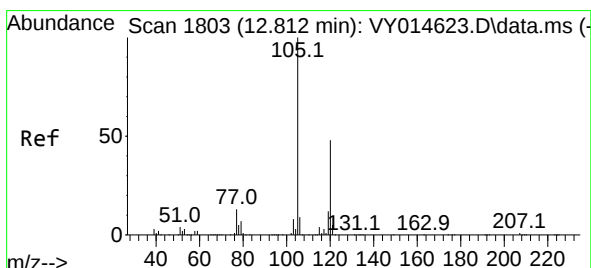
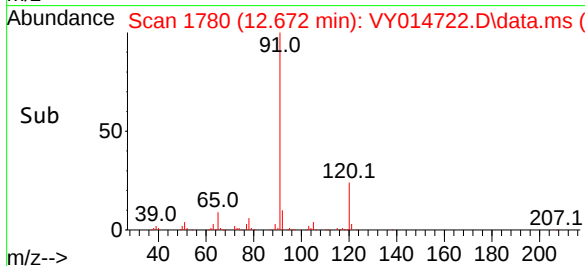
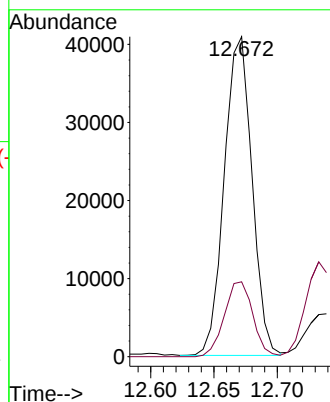
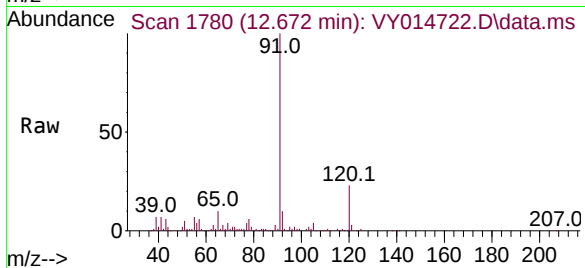
AUD-1021-1020-COMP

Tgt Ion: 91 Resp: 62158

Ion Ratio Lower Upper

91 100

120 24.2 11.5 34.4



#80

1,3,5-Trimethylbenzene

Concen: 2.596 ug/l

RT: 12.812 min Scan# 1803

Delta R.T. 0.000 min

Lab File: VY014722.D

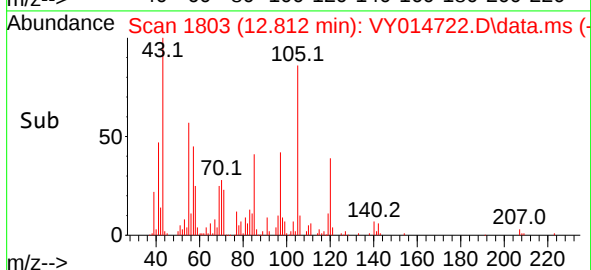
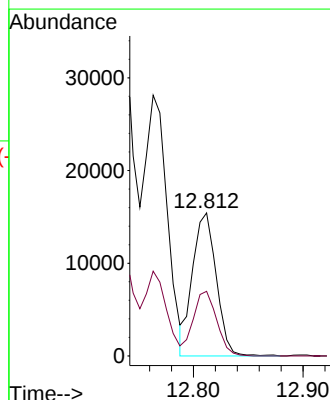
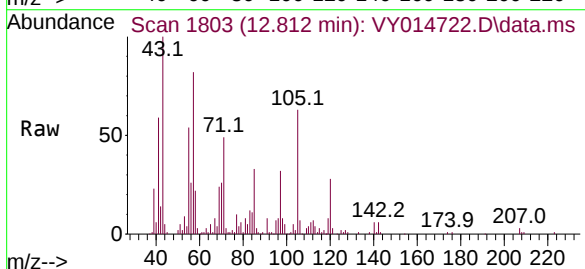
Acq: 20 Jul 2023 15:41

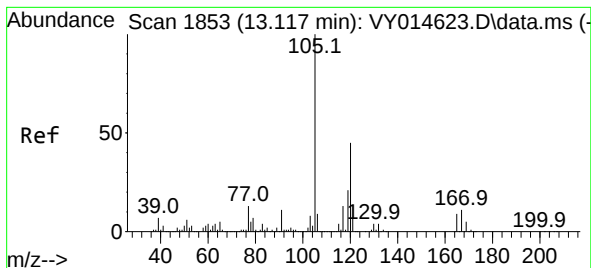
Tgt Ion:105 Resp: 23237

Ion Ratio Lower Upper

105 100

120 45.0 23.9 71.7





#84

1,2,4-Trimethylbenzene

Concen: 11.946 ug/l

RT: 13.117 min Scan# 1853

Delta R.T. -0.000 min

Lab File: VY014722.D

Acq: 20 Jul 2023 15:41

Instrument :

MSVOA_Y

ClientSampleId :

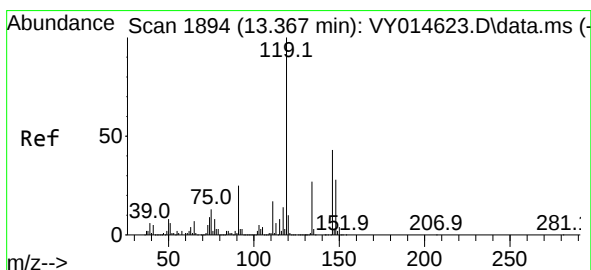
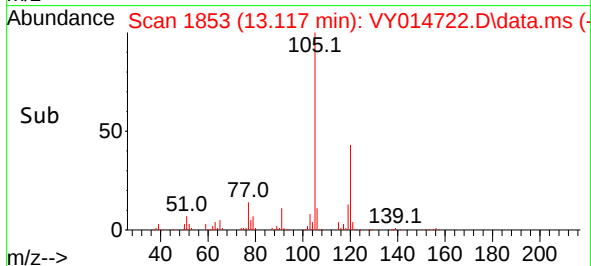
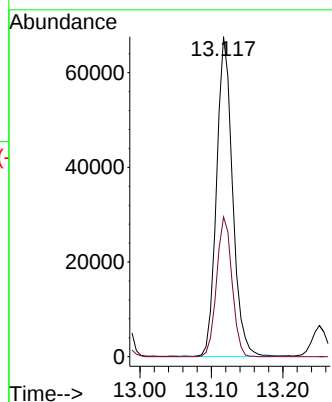
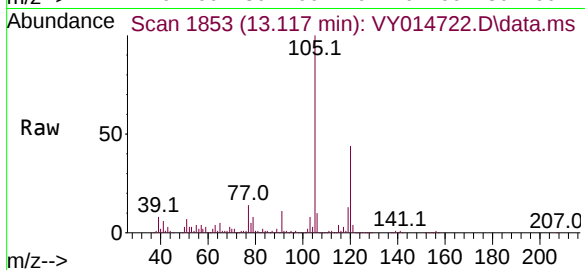
AUD-1021-1020-COMP

Tgt Ion:105 Resp: 104953

Ion Ratio Lower Upper

105 100

120 41.9 22.2 66.6



#86

p-Isopropyltoluene

Concen: 2.088 ug/l

RT: 13.367 min Scan# 1894

Delta R.T. -0.000 min

Lab File: VY014722.D

Acq: 20 Jul 2023 15:41

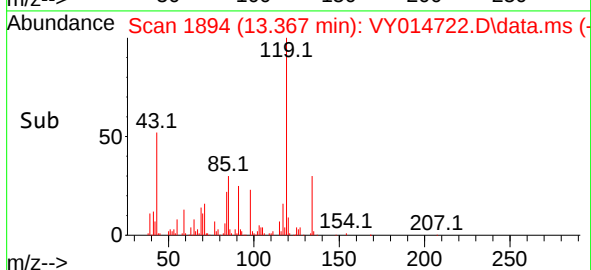
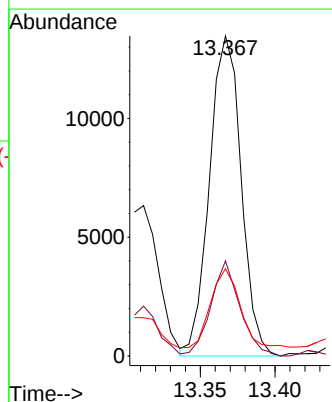
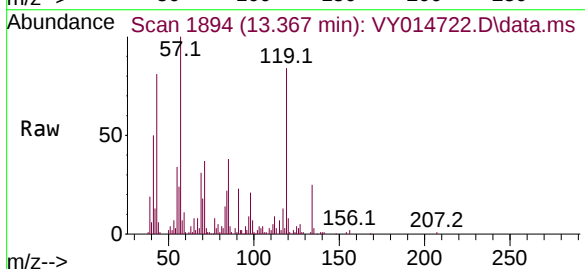
Tgt Ion:119 Resp: 19857

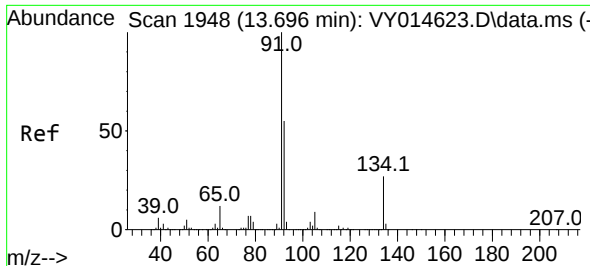
Ion Ratio Lower Upper

119 100

134 27.3 13.3 39.8

91 23.0 12.4 37.4

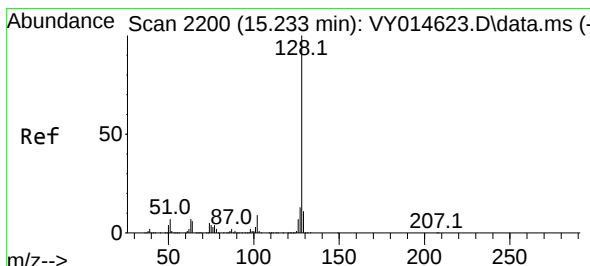
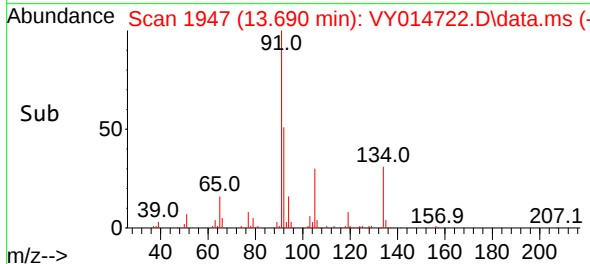
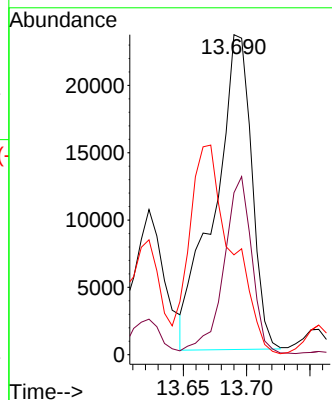
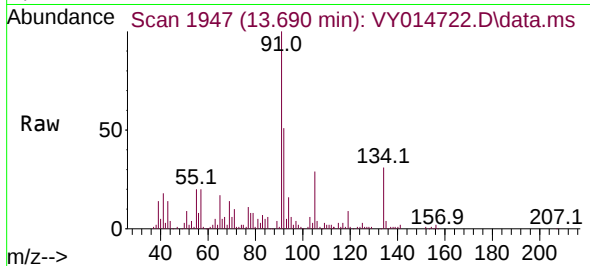




#89
n-Butylbenzene
Concen: 5.141 ug/l
RT: 13.690 min Scan# 1948
Delta R.T. -0.006 min
Lab File: VY014722.D
Acq: 20 Jul 2023 15:41

Instrument :
MSVOA_Y
ClientSampleId :
AUD-1021-1020-COMP

Tgt Ion: 91 Resp: 47569
Ion Ratio Lower Upper
91 100
92 42.8 25.4 76.0
134 0.0 12.6 37.6#



#95
Naphthalene
Concen: 36.964 ug/l
RT: 15.232 min Scan# 2200
Delta R.T. -0.001 min
Lab File: VY014722.D
Acq: 20 Jul 2023 15:41

Tgt Ion:128 Resp: 238523
Ion Ratio Lower Upper
128 100
127 13.0 10.8 16.2
129 10.8 8.6 13.0

