

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY092623\
 Data File : VY015712.D
 Acq On : 26 Sep 2023 16:46
 Operator : SY/MD
 Sample : 04614-03
 Misc : 5.05g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 AUD-1048

Quant Time: Sep 27 01:33:54 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y091923S.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 20 01:39:40 2023
 Response via : Initial Calibration

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

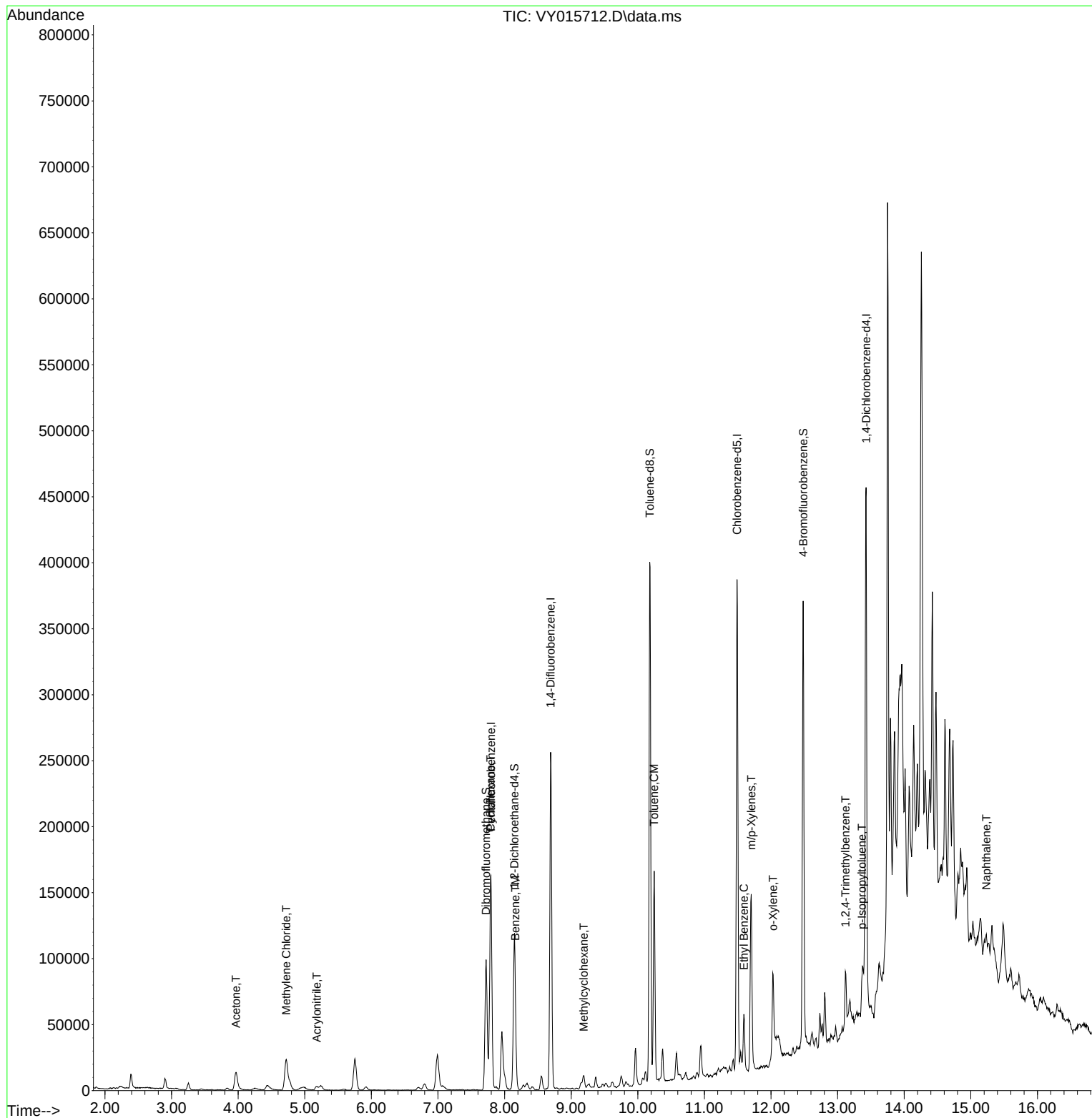
Internal Standards						
1) Pentafluorobenzene	7.795	168	123608	50.000	ug/l	0.01
34) 1,4-Difluorobenzene	8.691	114	217617	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.489	117	206362	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.428	152	100646	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.149	65	83192	61.169	ug/l	0.01
Spiked Amount	50.000	Range	50 - 163	Recovery	= 122.340%	
35) Dibromofluoromethane	7.722	113	69799	53.588	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 107.180%	
50) Toluene-d8	10.179	98	263834	59.740	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 119.480%	
62) 4-Bromofluorobenzene	12.483	95	96582	55.727	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 111.460%	
Target Compounds						
					Qvalue	
15) Acrylonitrile	5.180	53	4274	6.932	ug/l #	93
16) Acetone	3.966	43	28491	39.145	ug/l	93
20) Methylene Chloride	4.722	84	16766	6.287	ug/l	93
31) Cyclohexane	7.789	56	5179	2.749	ug/l #	30
39) Methylcyclohexane	9.191	83	4092	1.921	ug/l	90
40) Benzene	8.161	78	16034	2.730	ug/l	92
52) Toluene	10.246	92	65652	17.339	ug/l	92
67) Ethyl Benzene	11.593	91	28639	3.638	ug/l	100
68) m/p-Xylenes	11.703	106	41590	13.898	ug/l	92
69) o-Xylene	12.032	106	14500	4.941	ug/l	93
84) 1,2,4-Trimethylbenzene	13.117	105	22895	3.620	ug/l	97
86) p-Isopropyltoluene	13.367	119	9978	1.442	ug/l	88
95) Naphthalene	15.233	128	17420	3.127	ug/l #	95

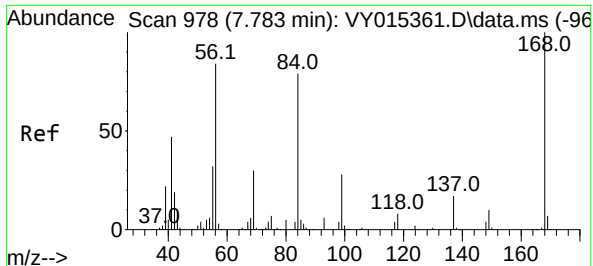
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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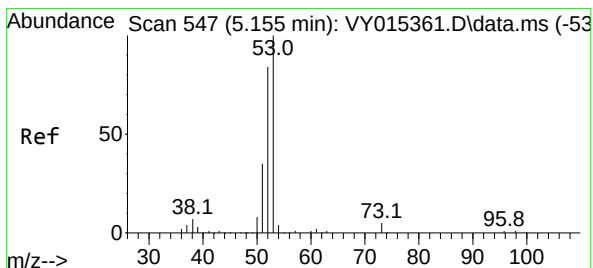
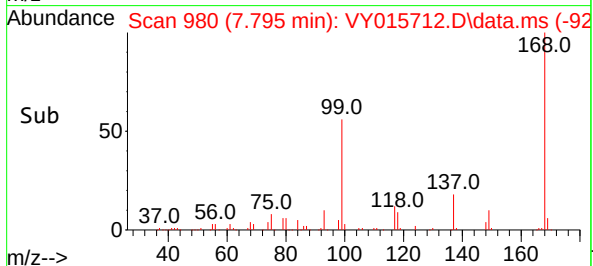
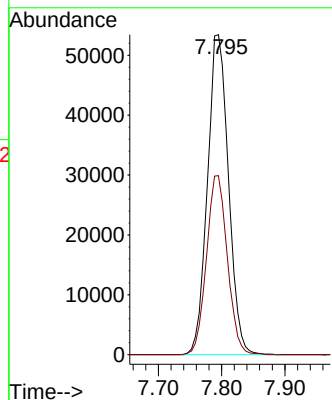
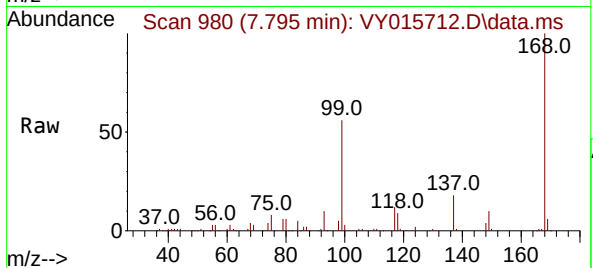




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.795 min Scan# 91
Delta R.T. 0.012 min
Lab File: VY015712.D
Acq: 26 Sep 2023 16:46

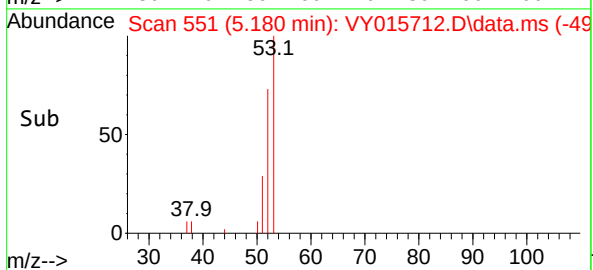
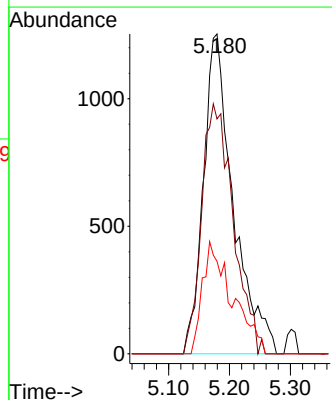
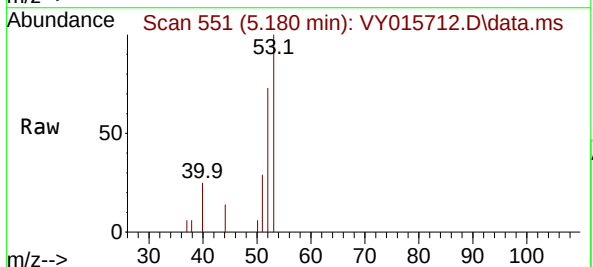
Instrument :
MSVOA_Y
ClientSampleId :
AUD-1048

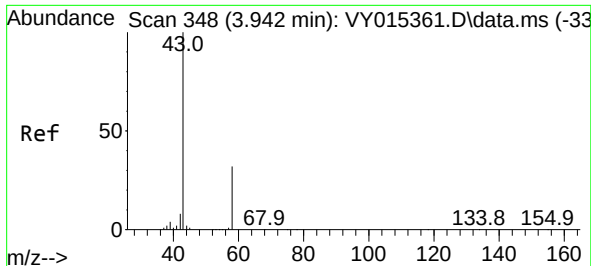
Tgt Ion:168 Resp: 123608
Ion Ratio Lower Upper
168 100
99 55.9 43.4 65.0



#15
Acrylonitrile
Concen: 6.932 ug/l
RT: 5.180 min Scan# 551
Delta R.T. 0.019 min
Lab File: VY015712.D
Acq: 26 Sep 2023 16:46

Tgt Ion: 53 Resp: 4274
Ion Ratio Lower Upper
53 100
52 82.5 66.9 100.3
51 26.0 29.8 44.6#





#16

Acetone

Concen: 39.145 ug/l

RT: 3.966 min Scan# 3

Delta R.T. 0.024 min

Lab File: VY015712.D

Acq: 26 Sep 2023 16:46

Instrument :

MSVOA_Y

ClientSampleId :

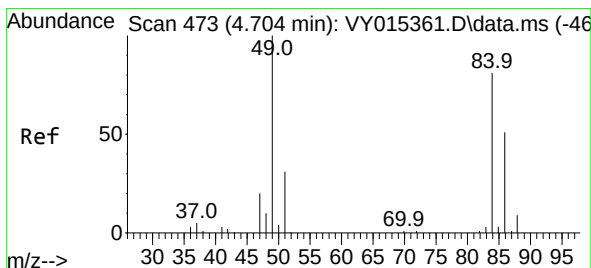
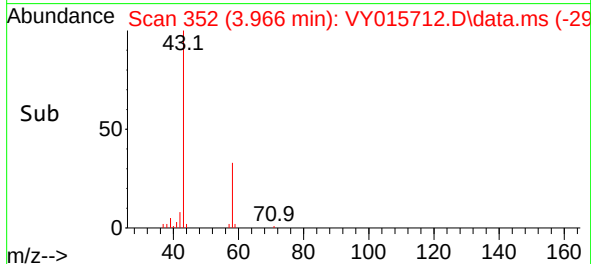
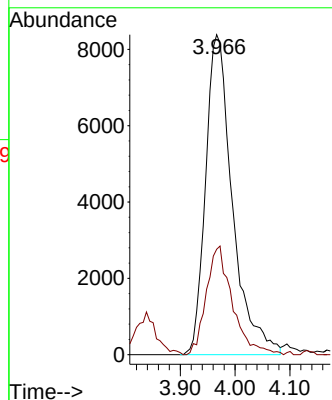
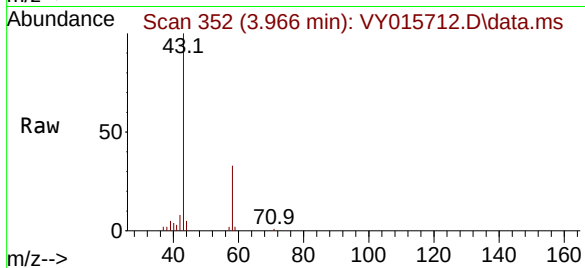
AUD-1048

Tgt Ion: 43 Resp: 28491

Ion Ratio Lower Upper

43 100

58 32.3 22.7 34.1



#20

Methylene Chloride

Concen: 6.287 ug/l

RT: 4.722 min Scan# 476

Delta R.T. 0.018 min

Lab File: VY015712.D

Acq: 26 Sep 2023 16:46

Tgt Ion: 84 Resp: 16766

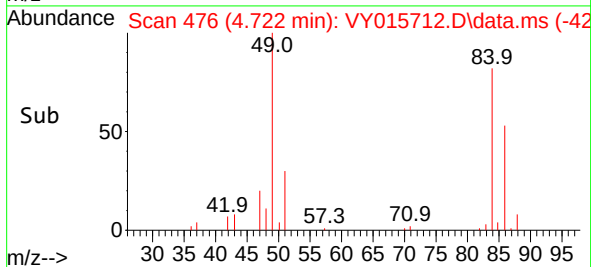
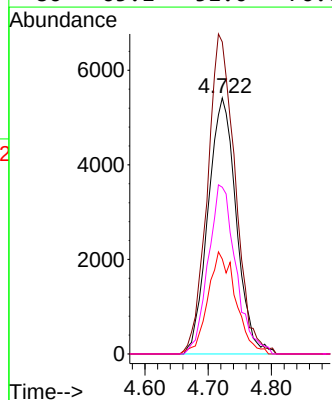
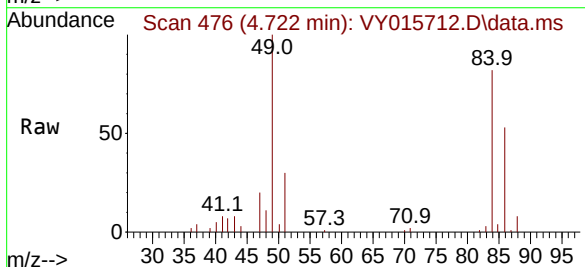
Ion Ratio Lower Upper

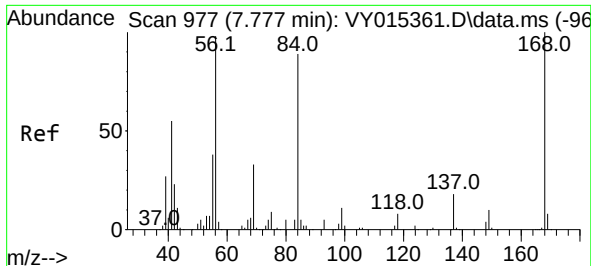
84 100

49 121.9 106.9 160.3

51 37.1 33.2 49.8

86 65.1 51.0 76.6

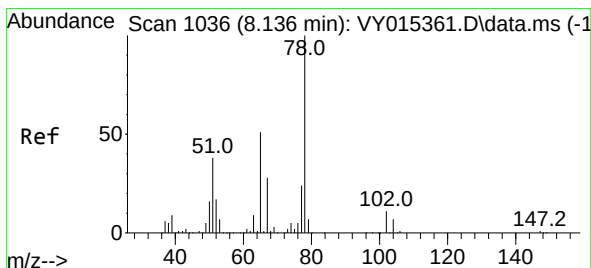
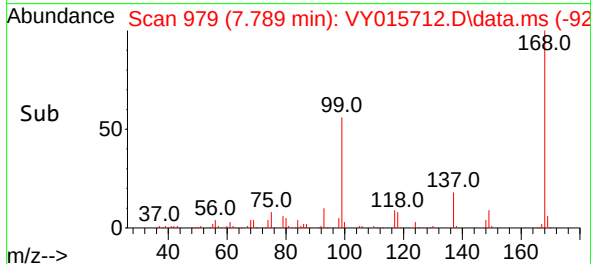
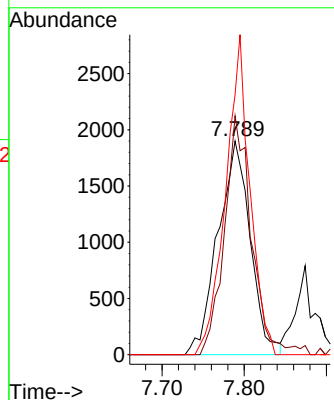
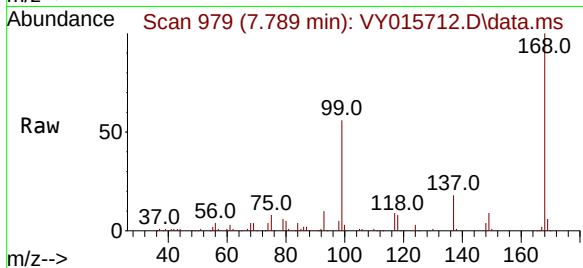




#31
Cyclohexane
Concen: 2.749 ug/l
RT: 7.789 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY015712.D
Acq: 26 Sep 2023 16:46

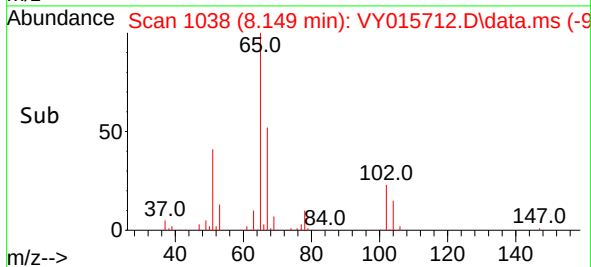
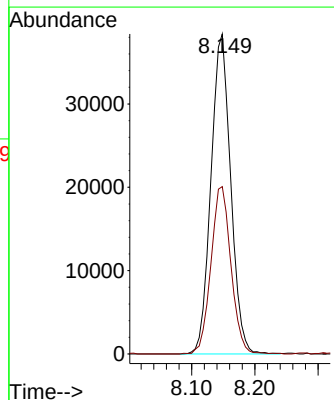
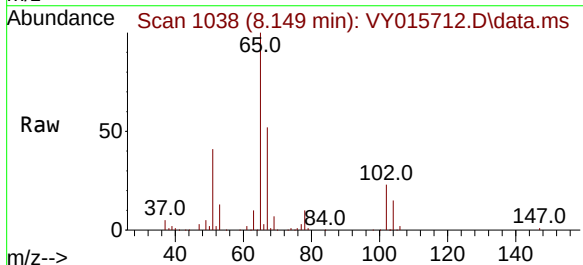
Instrument :
MSVOA_Y
ClientSampleId :
AUD-1048

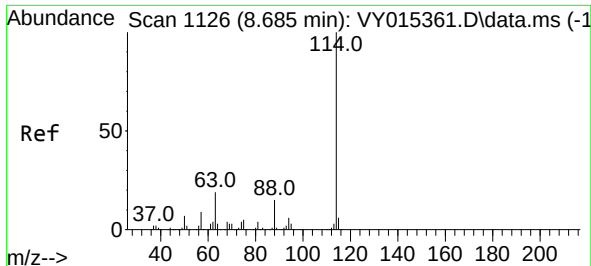
Tgt Ion: 56 Resp: 5179
Ion Ratio Lower Upper
56 100
69 111.8 27.8 41.6#
84 121.7 66.4 99.6#



#33
1,2-Dichloroethane-d4
Concen: 61.169 ug/l
RT: 8.149 min Scan# 1038
Delta R.T. 0.013 min
Lab File: VY015712.D
Acq: 26 Sep 2023 16:46

Tgt Ion: 65 Resp: 83192
Ion Ratio Lower Upper
65 100
67 53.2 0.0 101.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.691 min Scan# 1126

Delta R.T. 0.006 min

Lab File: VY015712.D

Acq: 26 Sep 2023 16:46

Instrument :

MSVOA_Y

ClientSampleId :

AUD-1048

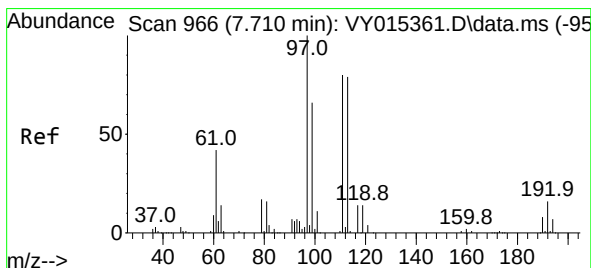
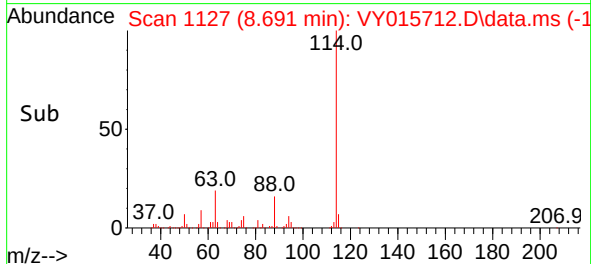
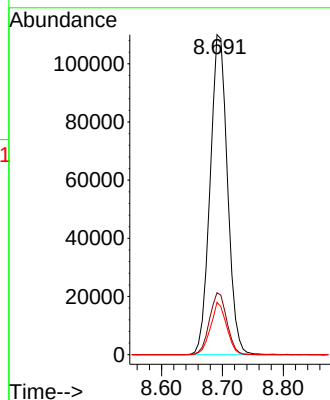
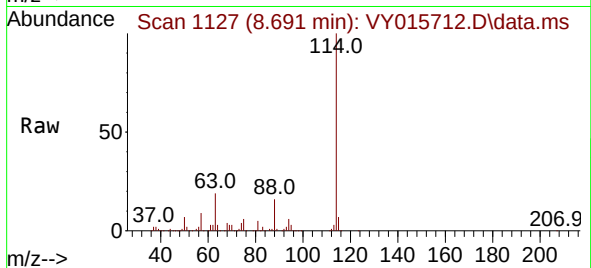
Tgt Ion:114 Resp: 217617

Ion Ratio Lower Upper

114 100

63 19.4 0.0 42.4

88 16.4 0.0 30.6



#35

Dibromofluoromethane

Concen: 53.588 ug/l

RT: 7.722 min Scan# 968

Delta R.T. 0.006 min

Lab File: VY015712.D

Acq: 26 Sep 2023 16:46

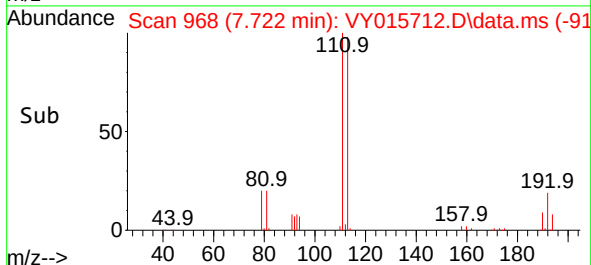
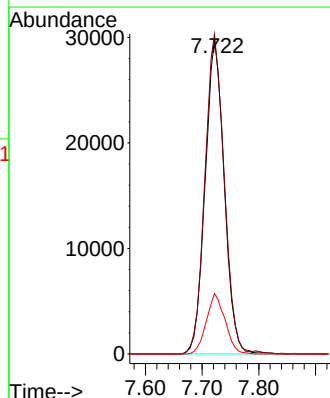
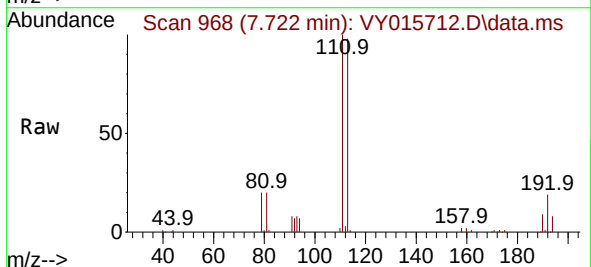
Tgt Ion:113 Resp: 69799

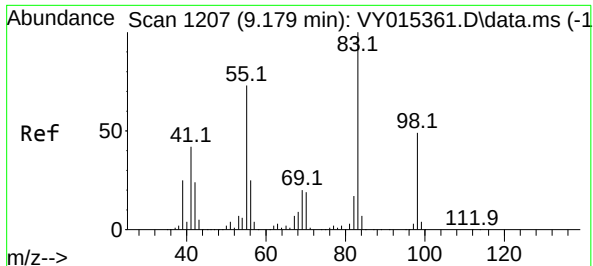
Ion Ratio Lower Upper

113 100

111 103.0 81.3 121.9

192 18.7 16.9 25.3





#39

Methylcyclohexane

Concen: 1.921 ug/l

RT: 9.191 min Scan# 11

Delta R.T. 0.012 min

Lab File: VY015712.D

Acq: 26 Sep 2023 16:46

Instrument :

MSVOA_Y

ClientSampleId :

AUD-1048

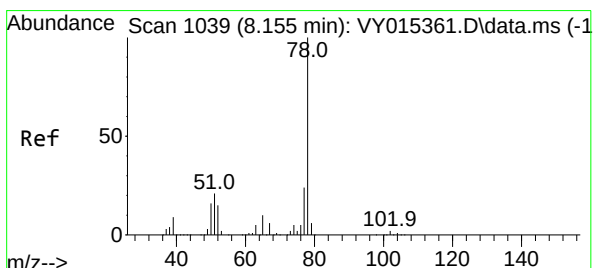
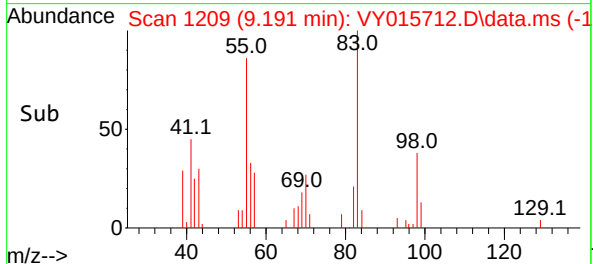
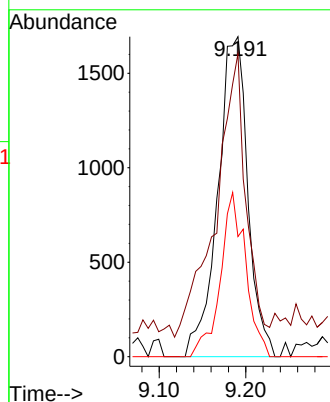
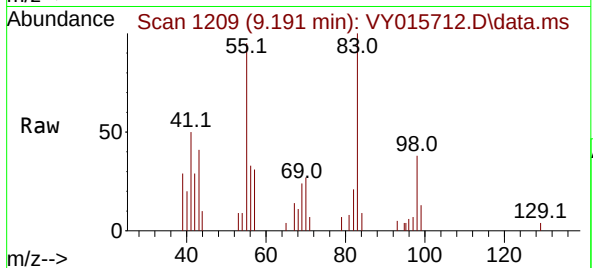
Tgt Ion: 83 Resp: 4092

Ion Ratio Lower Upper

83 100

55 84.8 63.0 94.4

98 37.5 37.4 56.2



#40

Benzene

Concen: 2.730 ug/l

RT: 8.161 min Scan# 1040

Delta R.T. 0.012 min

Lab File: VY015712.D

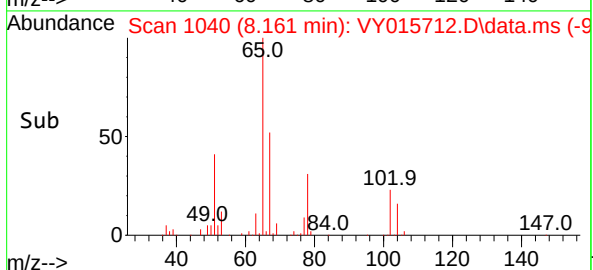
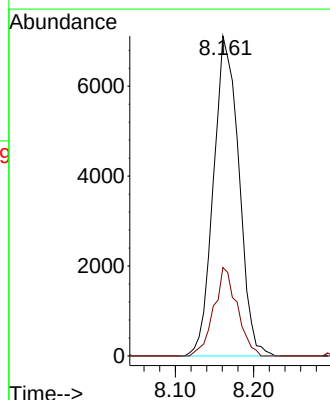
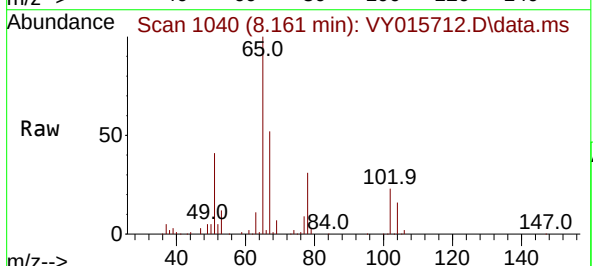
Acq: 26 Sep 2023 16:46

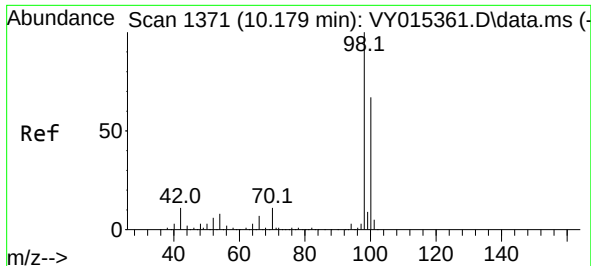
Tgt Ion: 78 Resp: 16034

Ion Ratio Lower Upper

78 100

77 27.6 19.0 28.6

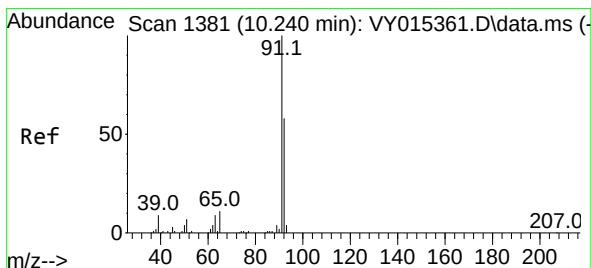
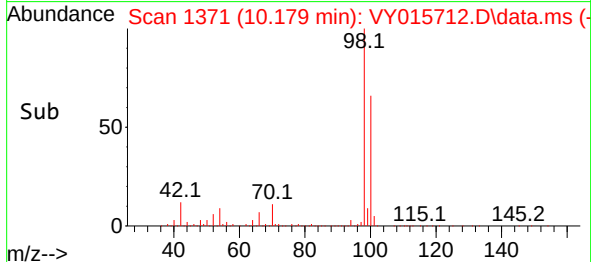
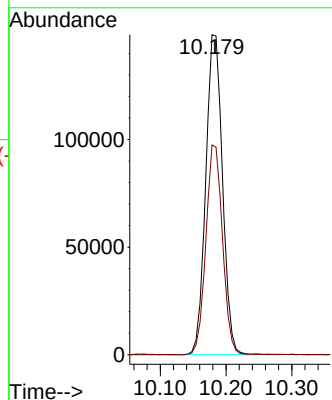
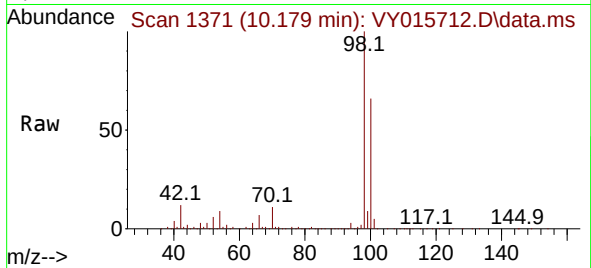




#50
Toluene-d8
Concen: 59.740 ug/l
RT: 10.179 min Scan# 1371
Delta R.T. -0.000 min
Lab File: VY015712.D
Acq: 26 Sep 2023 16:46

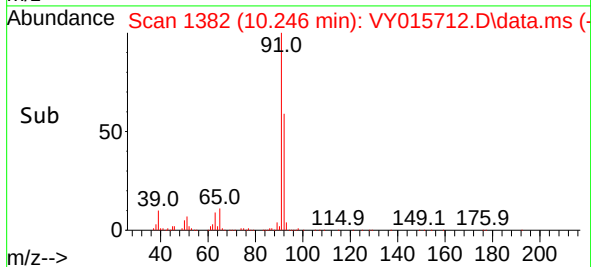
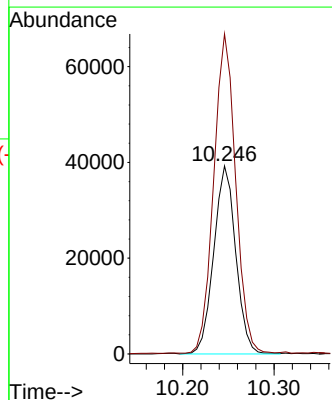
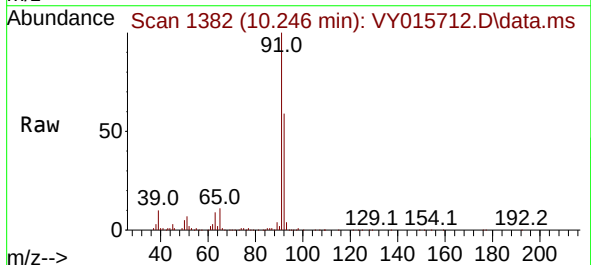
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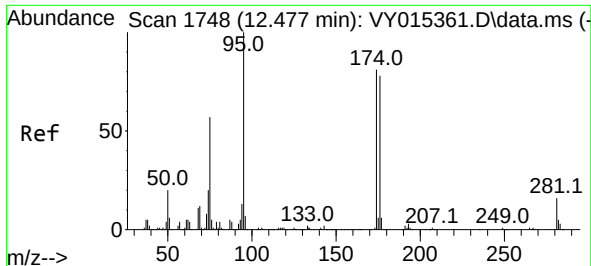
Tgt Ion: 98 Resp: 263834
Ion Ratio Lower Upper
98 100
100 65.0 50.1 75.1



#52
Toluene
Concen: 17.339 ug/l
RT: 10.246 min Scan# 1382
Delta R.T. 0.006 min
Lab File: VY015712.D
Acq: 26 Sep 2023 16:46

Tgt Ion: 92 Resp: 65652
Ion Ratio Lower Upper
92 100
91 168.9 143.8 215.6





#62

4-Bromofluorobenzene

Concen: 55.727 ug/l

RT: 12.483 min Scan# 1

Delta R.T. 0.006 min

Lab File: VY015712.D

Acq: 26 Sep 2023 16:46

Instrument :

MSVOA_Y

ClientSampleId :

AUD-1048

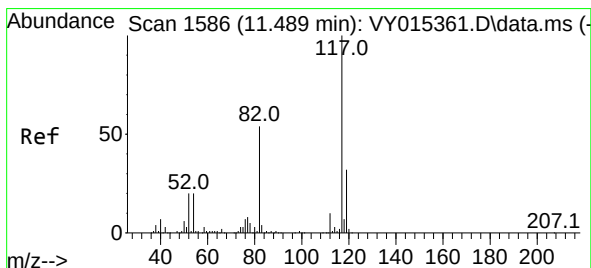
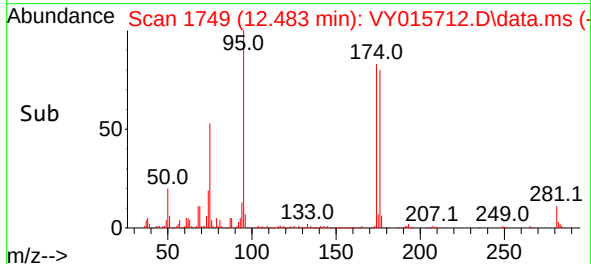
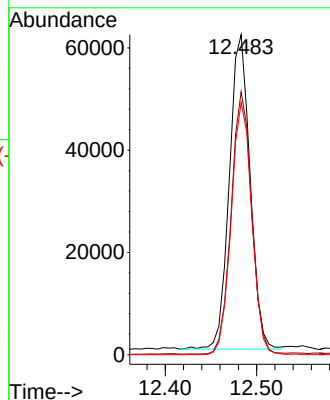
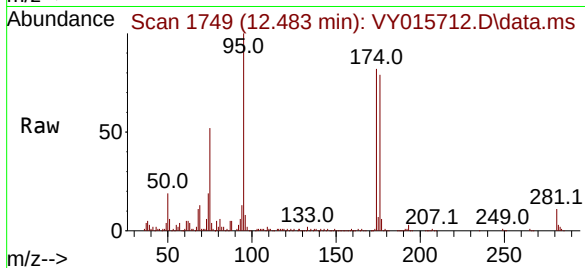
Tgt Ion: 95 Resp: 96582

Ion Ratio Lower Upper

95 100

174 82.5 0.0 178.2

176 79.7 0.0 173.8



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.489 min Scan# 1586

Delta R.T. 0.000 min

Lab File: VY015712.D

Acq: 26 Sep 2023 16:46

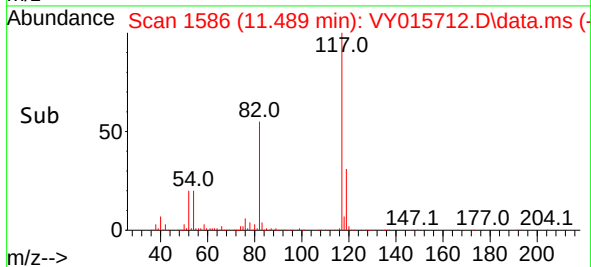
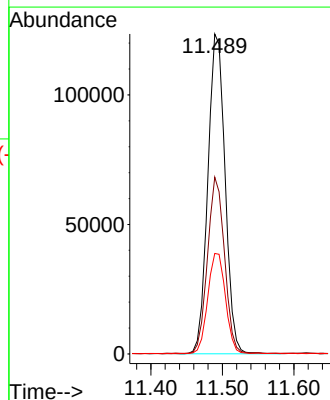
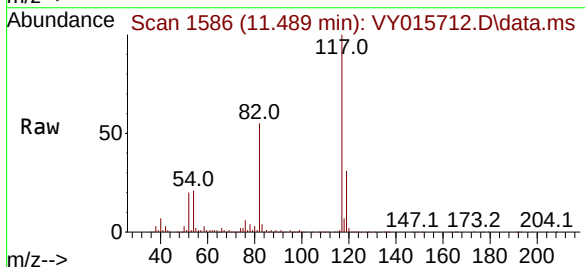
Tgt Ion: 117 Resp: 206362

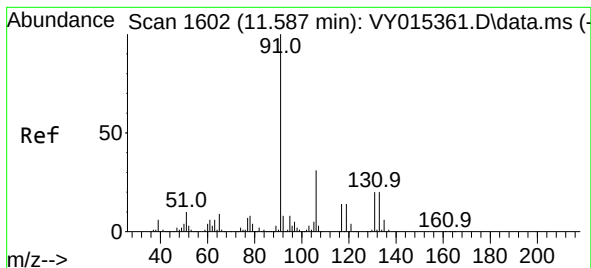
Ion Ratio Lower Upper

117 100

82 55.1 43.4 65.0

119 31.3 26.3 39.5





#67

Ethyl Benzene

Concen: 3.638 ug/l

RT: 11.593 min Scan# 1

Delta R.T. 0.006 min

Lab File: VY015712.D

Acq: 26 Sep 2023 16:46

Instrument :

MSVOA_Y

ClientSampleId :

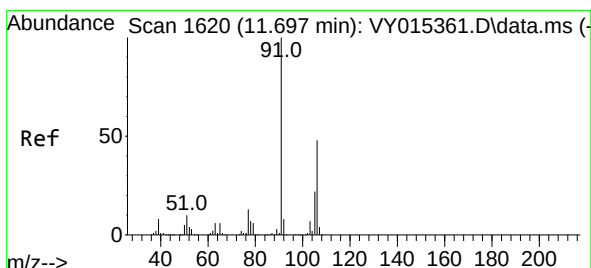
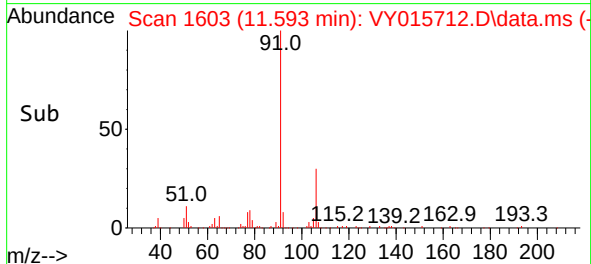
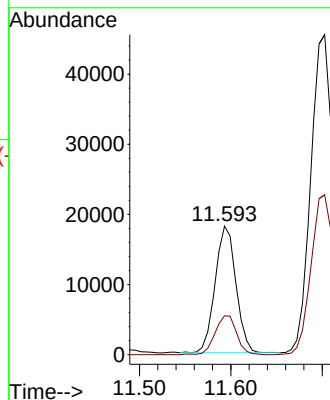
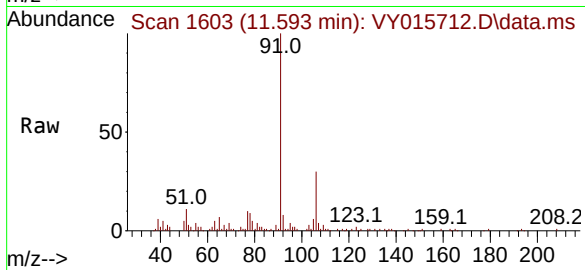
AUD-1048

Tgt Ion: 91 Resp: 28639

Ion Ratio Lower Upper

91 100

106 30.7 24.6 36.8



#68

m/p-Xylenes

Concen: 13.898 ug/l

RT: 11.703 min Scan# 1621

Delta R.T. -0.000 min

Lab File: VY015712.D

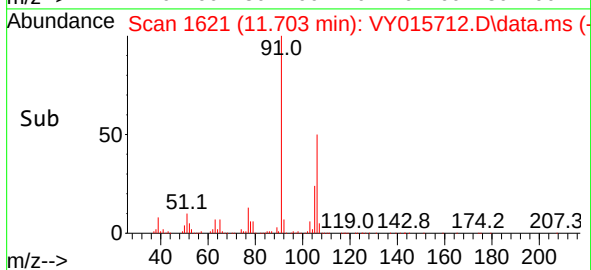
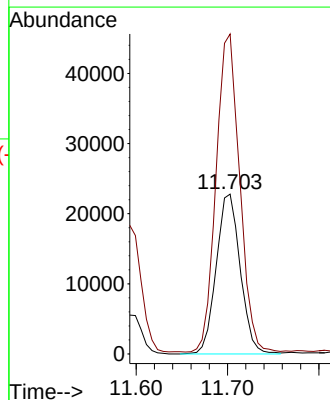
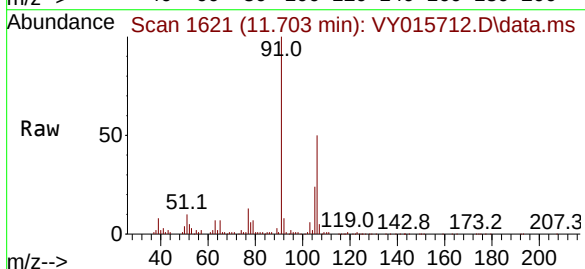
Acq: 26 Sep 2023 16:46

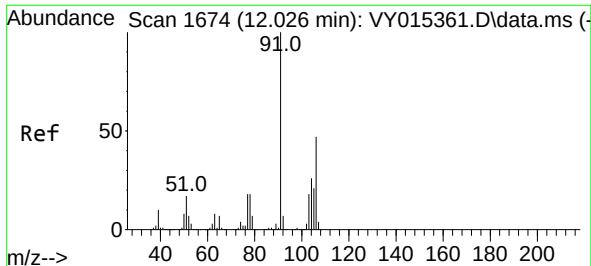
Tgt Ion:106 Resp: 41590

Ion Ratio Lower Upper

106 100

91 195.4 166.1 249.1





#69

o-Xylene

Concen: 4.941 ug/l

RT: 12.032 min Scan# 1

Delta R.T. 0.006 min

Lab File: VY015712.D

Acq: 26 Sep 2023 16:46

Instrument :

MSVOA_Y

ClientSampleId :

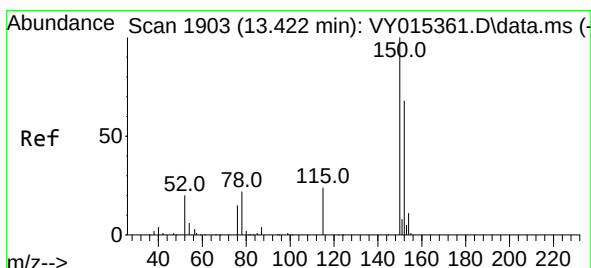
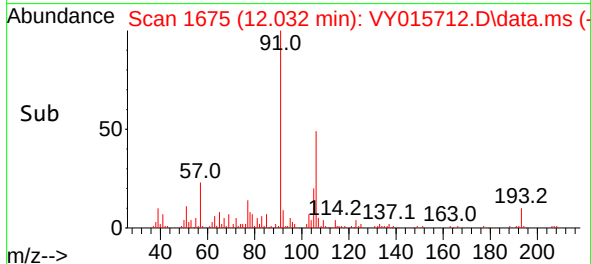
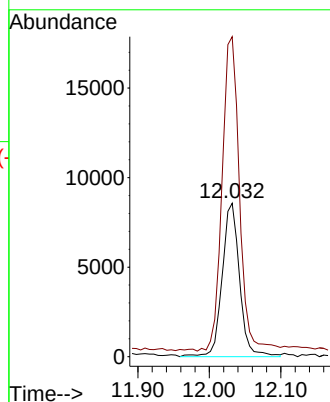
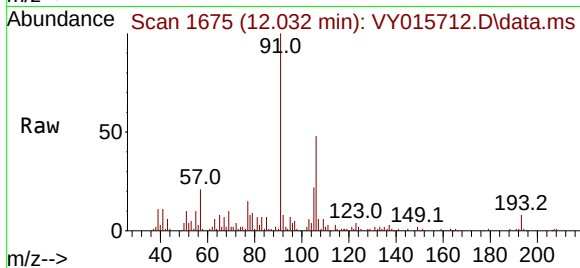
AUD-1048

Tgt Ion:106 Resp: 14500

Ion Ratio Lower Upper

106 100

91 204.4 108.1 324.3



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.428 min Scan# 1904

Delta R.T. 0.006 min

Lab File: VY015712.D

Acq: 26 Sep 2023 16:46

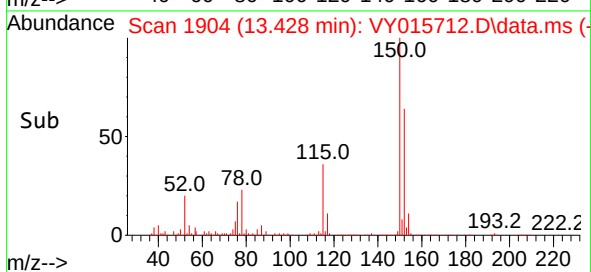
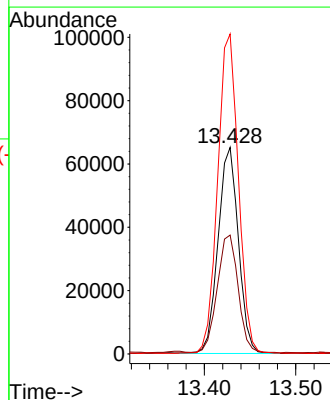
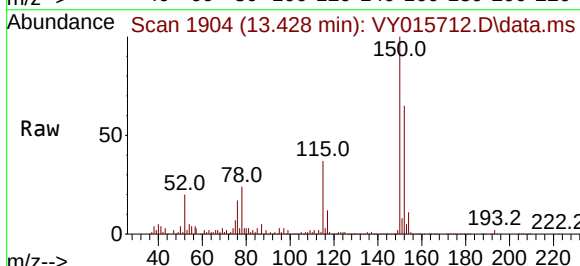
Tgt Ion:152 Resp: 100646

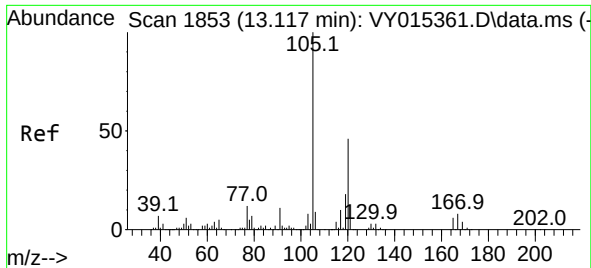
Ion Ratio Lower Upper

152 100

115 58.9 28.8 86.5

150 157.7 0.0 348.8

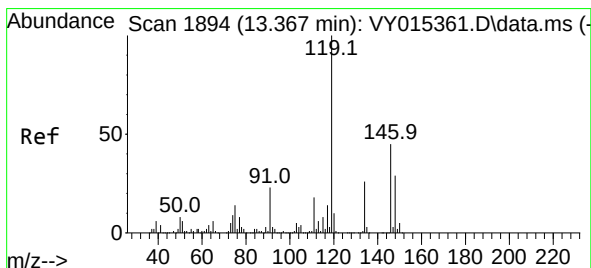
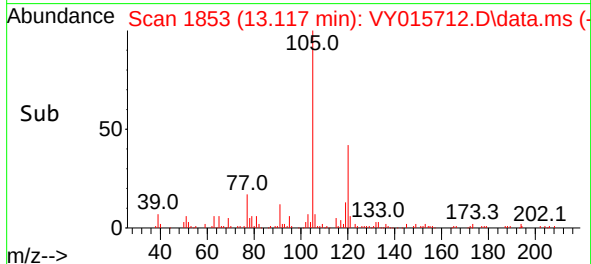
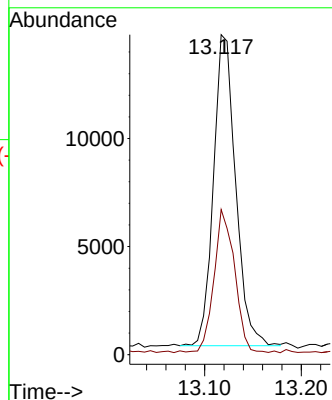
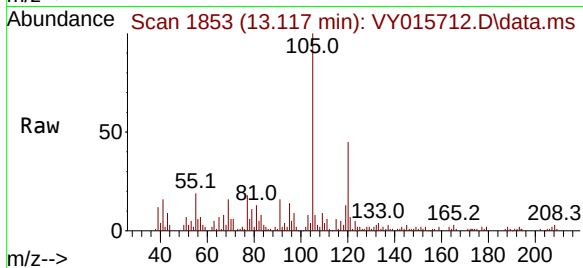




#84
1,2,4-Trimethylbenzene
Concen: 3.620 ug/l
RT: 13.117 min Scan# 1853
Delta R.T. 0.000 min
Lab File: VY015712.D
Acq: 26 Sep 2023 16:46

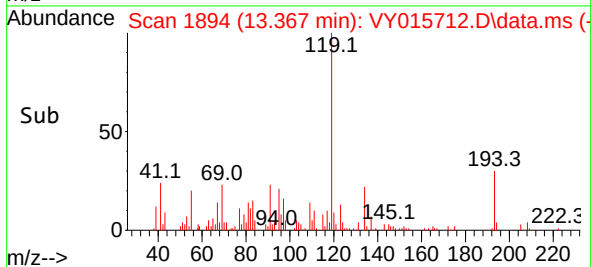
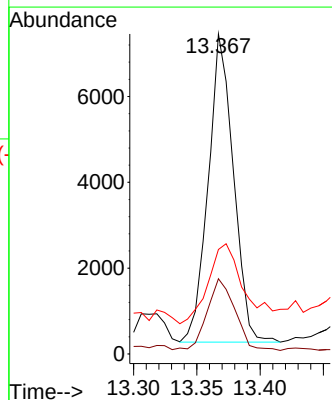
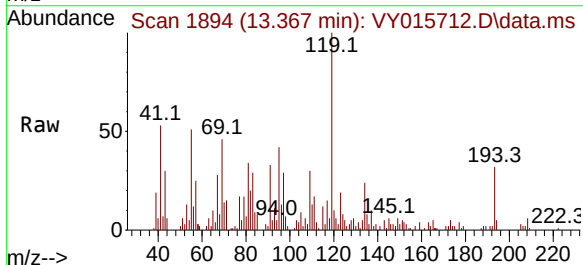
Instrument :
MSVOA_Y
ClientSampleId :
AUD-1048

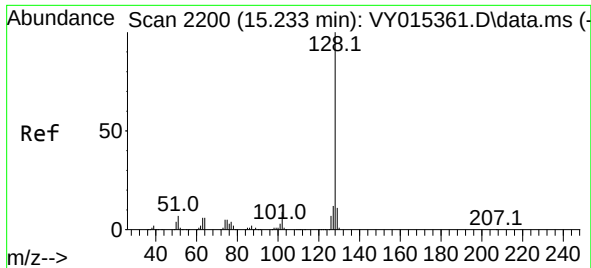
Tgt Ion:105 Resp: 22895
Ion Ratio Lower Upper
105 100
120 42.4 22.2 66.6



#86
p-Isopropyltoluene
Concen: 1.442 ug/l
RT: 13.367 min Scan# 1894
Delta R.T. 0.000 min
Lab File: VY015712.D
Acq: 26 Sep 2023 16:46

Tgt Ion:119 Resp: 9978
Ion Ratio Lower Upper
119 100
134 25.3 13.3 39.8
91 36.0 12.4 37.4





#95
 Naphthalene
 Concen: 3.127 ug/l
 RT: 15.233 min Scan# 21
 Delta R.T. -0.000 min
 Lab File: VY015712.D
 Acq: 26 Sep 2023 16:46

Instrument :
 MSVOA_Y
 ClientSampleId :
 AUD-1048

Tgt Ion:128 Resp: 17420
 Ion Ratio Lower Upper
 128 100
 127 16.5 10.8 16.2#
 129 10.5 8.6 13.0

