

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY101023\
 Data File : VY015907.D
 Acq On : 10 Oct 2023 19:12
 Operator : SY/MD
 Sample : 04805-01
 Misc : 4.42g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 B-1(0-5)

Quant Time: Oct 11 01:24:20 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100923S.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 10 07:06:18 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.801	168	144915	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.697	114	251590	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.496	117	203513	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.428	152	58335	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.149	65	83526	64.056	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 128.120%	
35) Dibromofluoromethane	7.728	113	81039	57.748	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 115.500%	
50) Toluene-d8	10.185	98	287700	62.207	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 124.420%	
62) 4-Bromofluorobenzene	12.483	95	73398	39.072	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 78.140%	

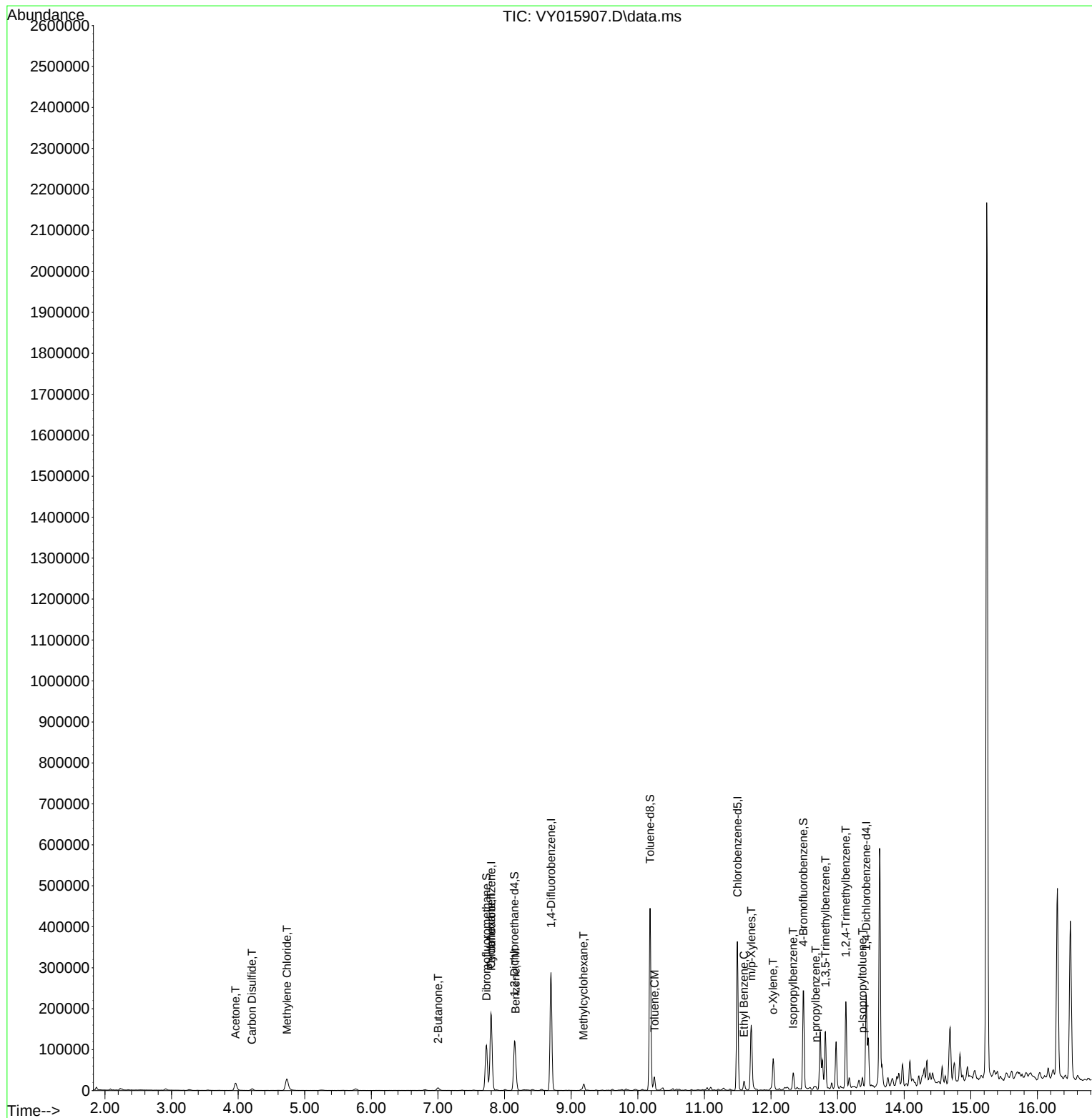
Target Compounds				Qvalue		
16) Acetone	3.960	43	31248	53.855	ug/l #	88
17) Carbon Disulfide	4.204	76	7764	8.590	ug/l	95
20) Methylene Chloride	4.735	84	22203	8.552	ug/l	84
25) 2-Butanone	7.003	43	10677	14.927	ug/l	91
31) Cyclohexane	7.795	56	5514	3.948	ug/l #	36
39) Methylcyclohexane	9.185	83	6198	3.926	ug/l #	86
40) Benzene	8.167	78	29913	6.124	ug/l	99
52) Toluene	10.252	92	14106	4.351	ug/l	95
67) Ethyl Benzene	11.593	91	14494	2.380	ug/l	95
68) m/p-Xylenes	11.703	106	49165	21.425	ug/l	93
69) o-Xylene	12.032	106	19269	8.392	ug/l	100
73) Isopropylbenzene	12.331	105	24075	6.542	ug/l	99
78) n-propylbenzene	12.672	91	6482	1.465	ug/l	95
80) 1,3,5-Trimethylbenzene	12.819	105	66288	21.856	ug/l	97
84) 1,2,4-Trimethylbenzene	13.123	105	114039	37.338	ug/l	98
86) p-Isopropyltoluene	13.373	119	10471	3.049	ug/l	99

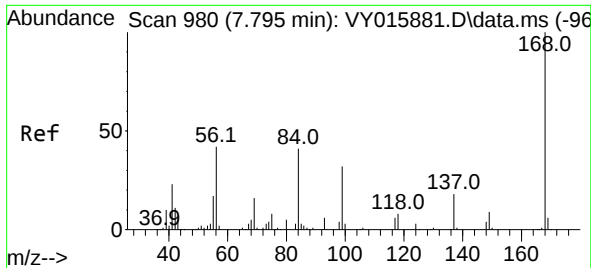
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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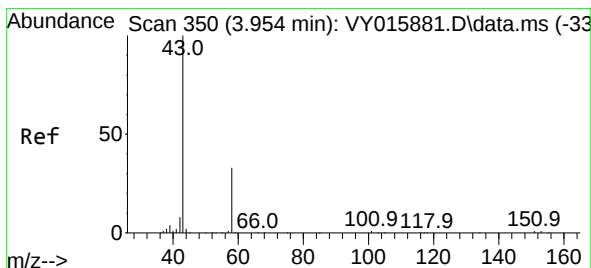
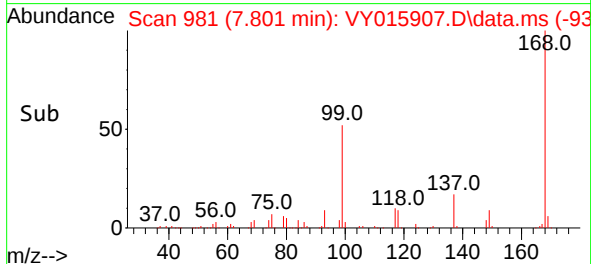
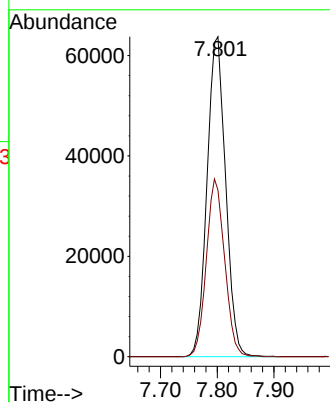
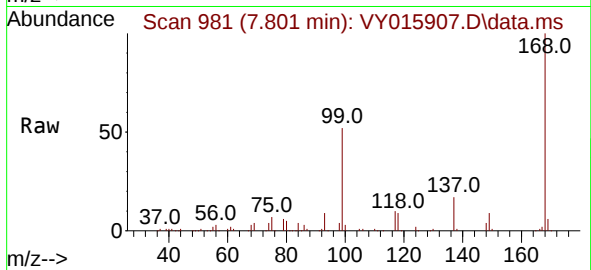




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.801 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY015907.D
Acq: 10 Oct 2023 19:12

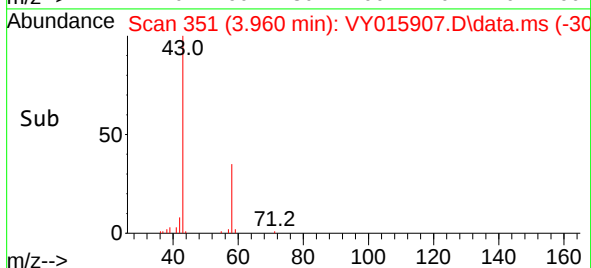
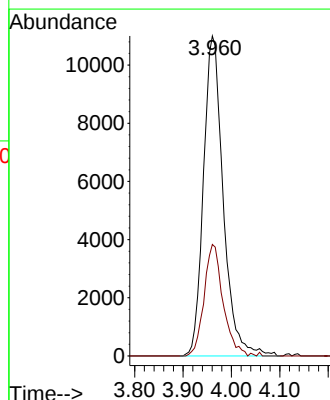
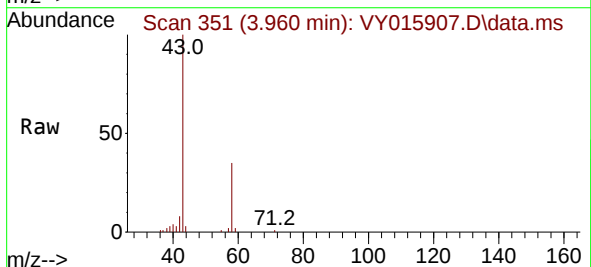
Instrument :
MSVOA_Y
ClientSampleId :
B-1(0-5)

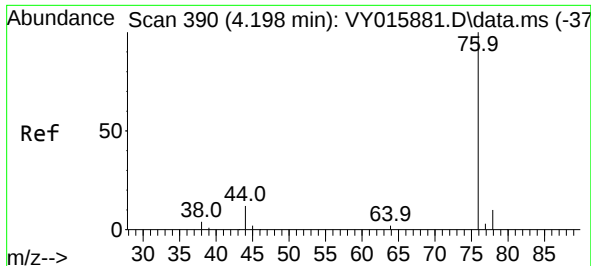
Tgt Ion:168 Resp: 144915
Ion Ratio Lower Upper
168 100
99 52.1 43.4 65.0



#16
Acetone
Concen: 53.855 ug/l
RT: 3.960 min Scan# 351
Delta R.T. 0.006 min
Lab File: VY015907.D
Acq: 10 Oct 2023 19:12

Tgt Ion: 43 Resp: 31248
Ion Ratio Lower Upper
43 100
58 34.9 22.7 34.1#





#17

Carbon Disulfide

Concen: 8.590 ug/l

RT: 4.204 min Scan# 391

Delta R.T. 0.006 min

Lab File: VY015907.D

Acq: 10 Oct 2023 19:12

Instrument :

MSVOA_Y

ClientSampleId :

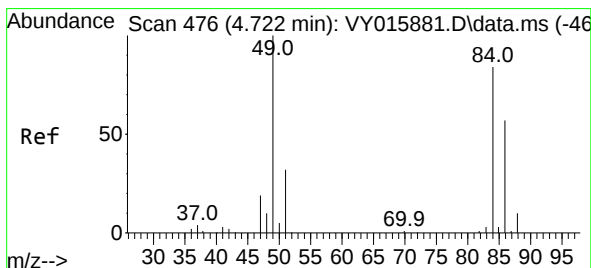
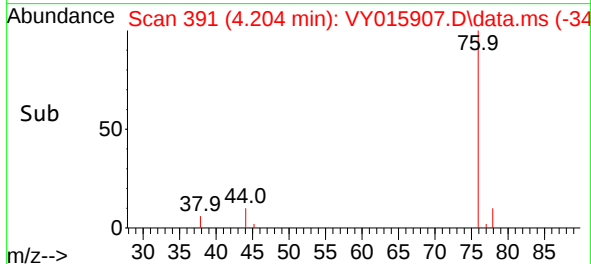
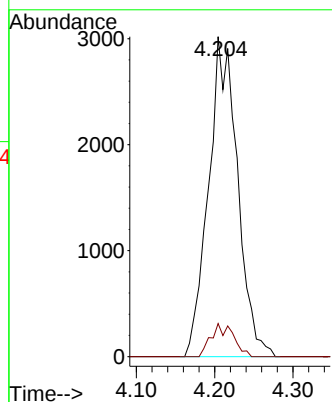
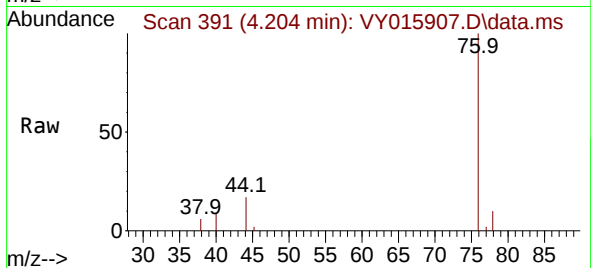
B-1(0-5)

Tgt Ion: 76 Resp: 7764

Ion Ratio Lower Upper

76 100

78 10.3 7.0 10.4



#20

Methylene Chloride

Concen: 8.552 ug/l

RT: 4.735 min Scan# 478

Delta R.T. 0.013 min

Lab File: VY015907.D

Acq: 10 Oct 2023 19:12

Tgt Ion: 84 Resp: 22203

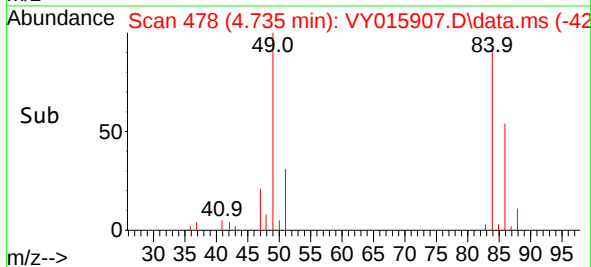
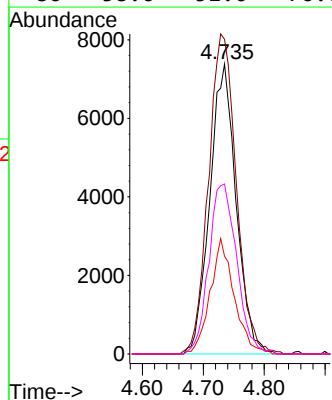
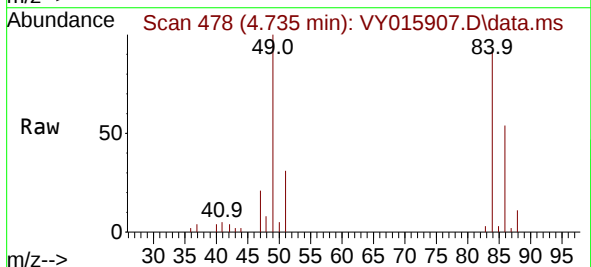
Ion Ratio Lower Upper

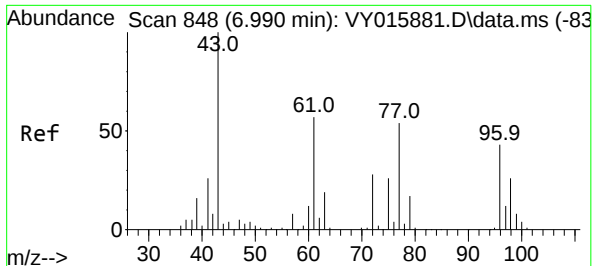
84 100

49 108.5 106.9 160.3

51 33.7 33.2 49.8

86 58.6 51.0 76.6





#25

2-Butanone

Concen: 14.927 ug/l

RT: 7.003 min Scan# 81

Delta R.T. 0.012 min

Lab File: VY015907.D

Acq: 10 Oct 2023 19:12

Instrument :

MSVOA_Y

ClientSampleId :

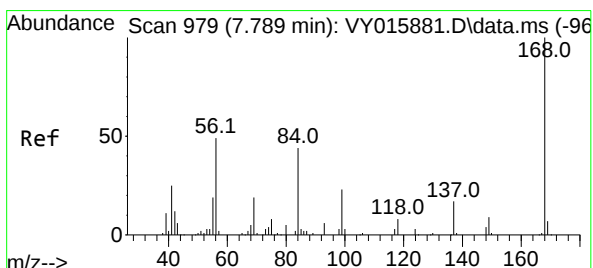
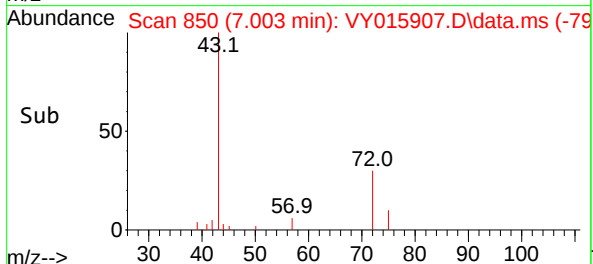
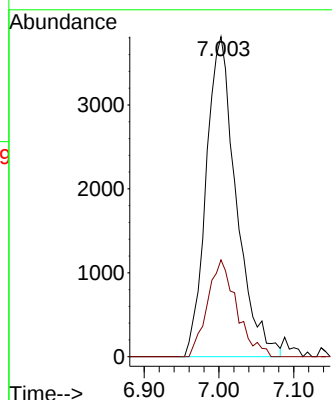
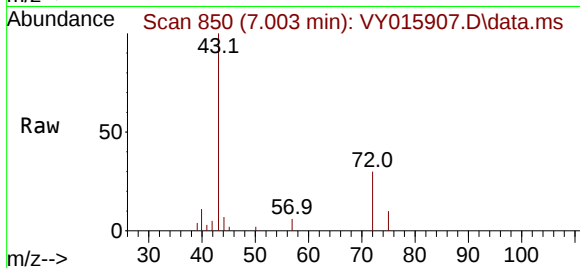
B-1(0-5)

Tgt Ion: 43 Resp: 10677

Ion Ratio Lower Upper

43 100

72 30.3 20.5 30.7



#31

Cyclohexane

Concen: 3.948 ug/l

RT: 7.795 min Scan# 980

Delta R.T. 0.006 min

Lab File: VY015907.D

Acq: 10 Oct 2023 19:12

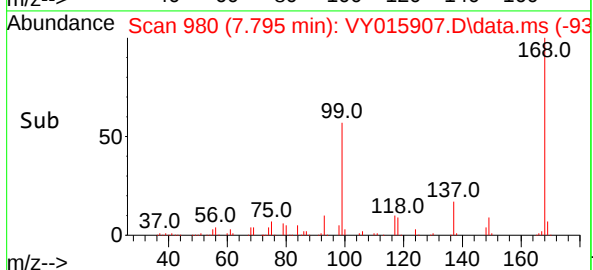
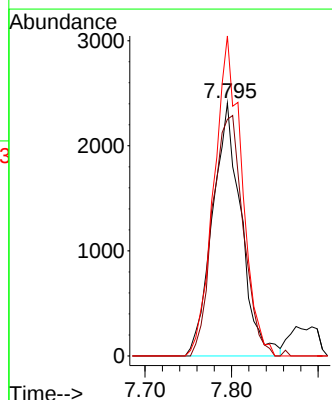
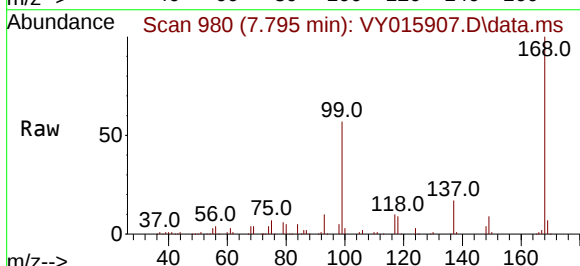
Tgt Ion: 56 Resp: 5514

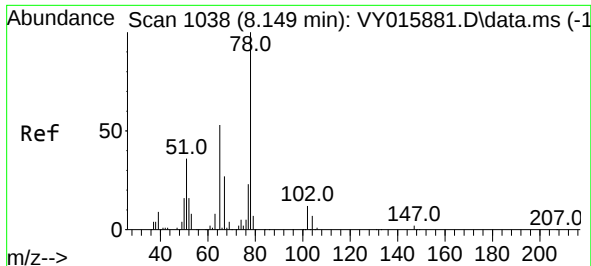
Ion Ratio Lower Upper

56 100

69 93.6 27.8 41.6#

84 126.5 66.4 99.6#





#33

1,2-Dichloroethane-d4

Concen: 64.056 ug/l

RT: 8.149 min Scan# 1103

Delta R.T. 0.000 min

Lab File: VY015907.D

Acq: 10 Oct 2023 19:12

Instrument :

MSVOA_Y

ClientSampleId :

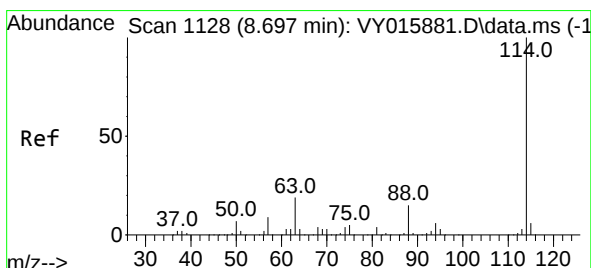
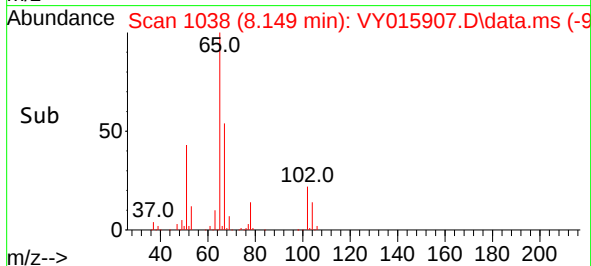
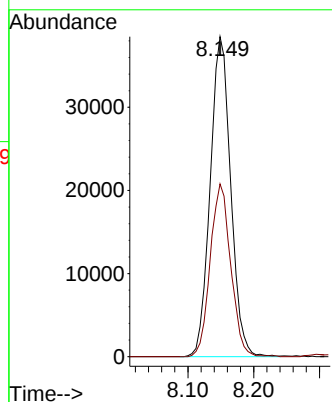
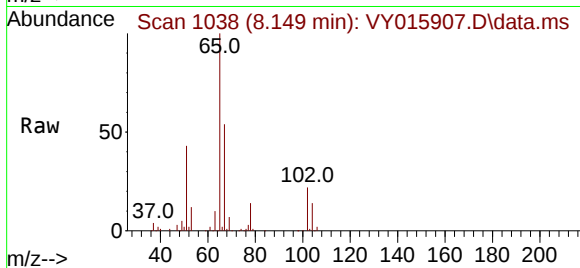
B-1(0-5)

Tgt Ion: 65 Resp: 83526

Ion Ratio Lower Upper

65 100

67 53.9 0.0 101.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.697 min Scan# 1128

Delta R.T. 0.000 min

Lab File: VY015907.D

Acq: 10 Oct 2023 19:12

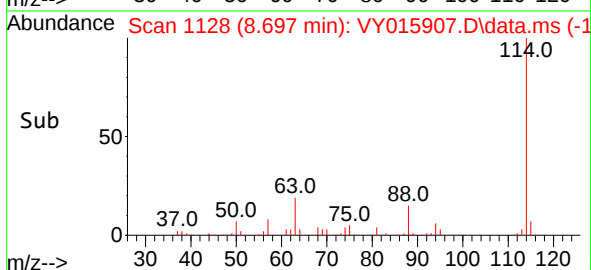
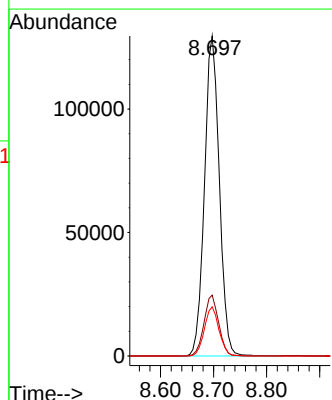
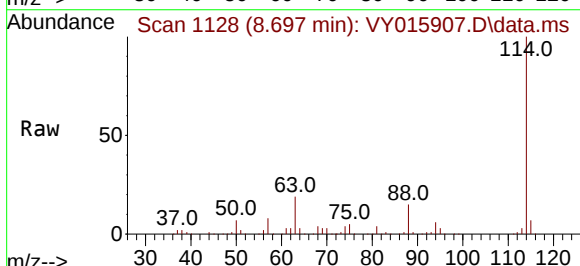
Tgt Ion: 114 Resp: 251590

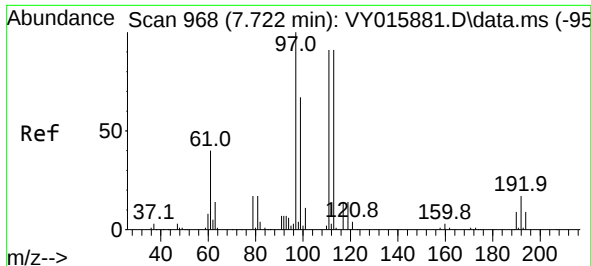
Ion Ratio Lower Upper

114 100

63 19.0 0.0 42.4

88 15.4 0.0 30.6

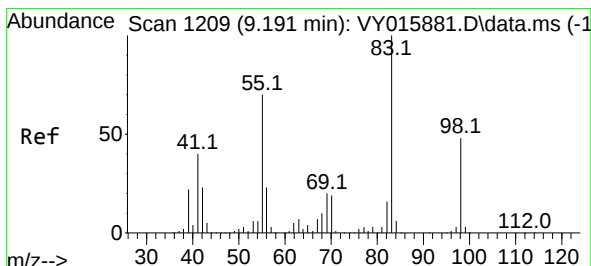
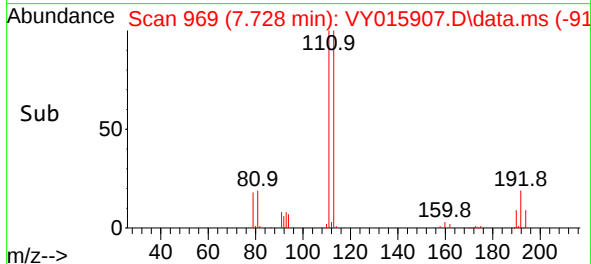
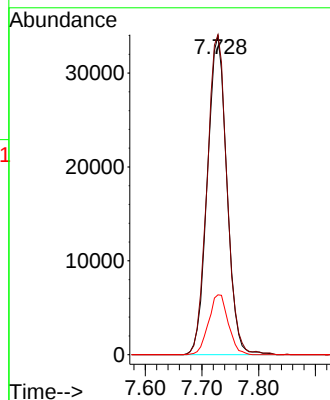
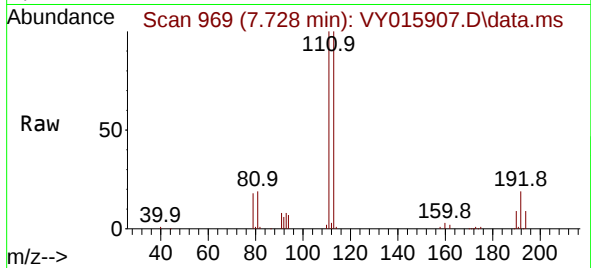




#35
Dibromofluoromethane
Concen: 57.748 ug/l
RT: 7.728 min Scan# 90
Delta R.T. 0.006 min
Lab File: VY015907.D
Acq: 10 Oct 2023 19:12

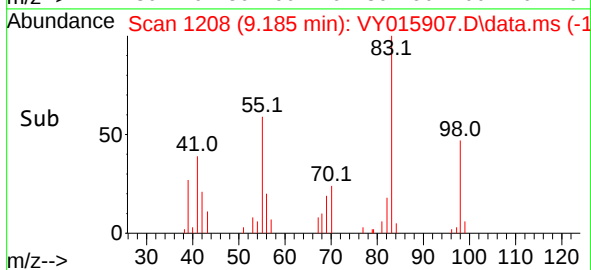
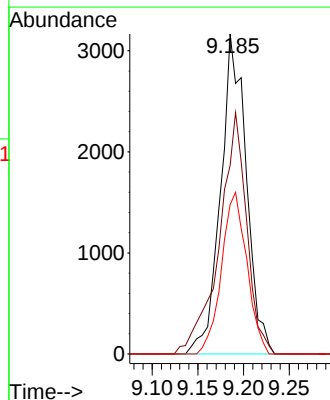
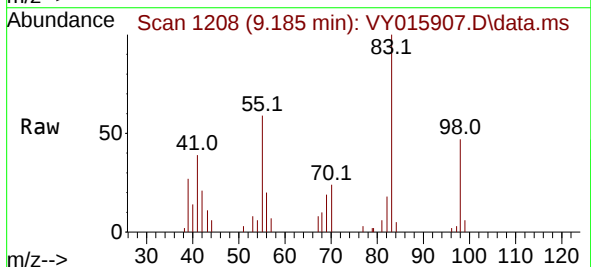
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B-1(0-5)

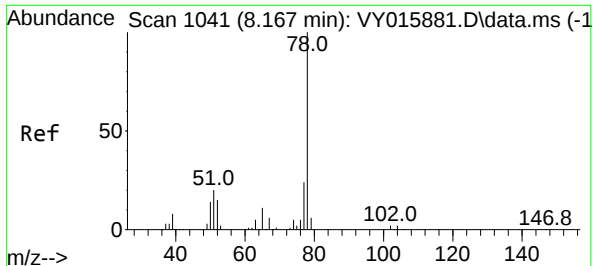
Tgt Ion:113 Resp: 81039
Ion Ratio Lower Upper
113 100
111 102.1 81.3 121.9
192 19.0 16.9 25.3



#39
Methylcyclohexane
Concen: 3.926 ug/l
RT: 9.185 min Scan# 1208
Delta R.T. -0.006 min
Lab File: VY015907.D
Acq: 10 Oct 2023 19:12

Tgt Ion: 83 Resp: 6198
Ion Ratio Lower Upper
83 100
55 58.9 63.0 94.4#
98 46.7 37.4 56.2

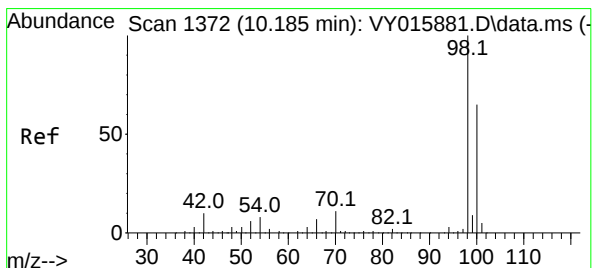
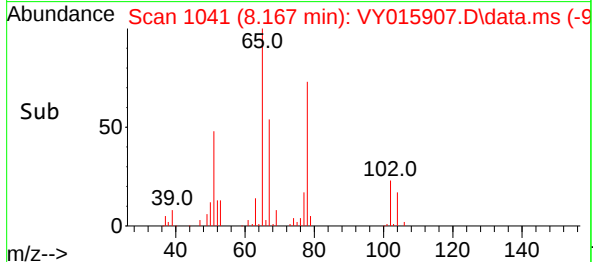
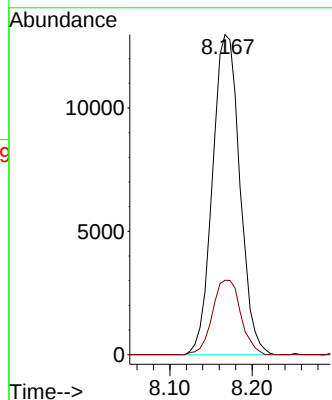
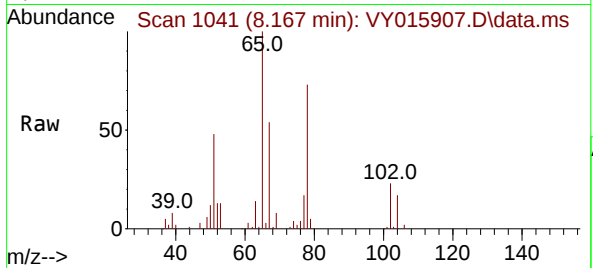




#40
Benzene
Concen: 6.124 ug/l
RT: 8.167 min Scan# 1041
Delta R.T. 0.000 min
Lab File: VY015907.D
Acq: 10 Oct 2023 19:12

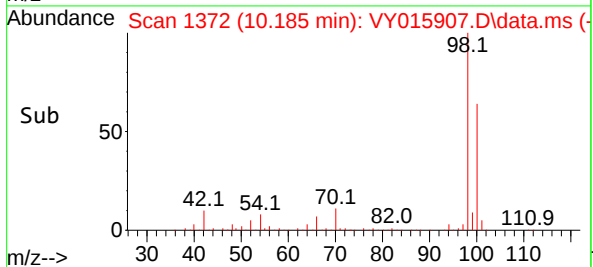
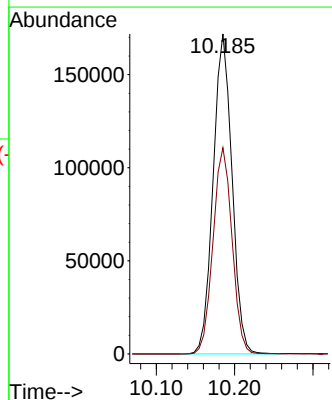
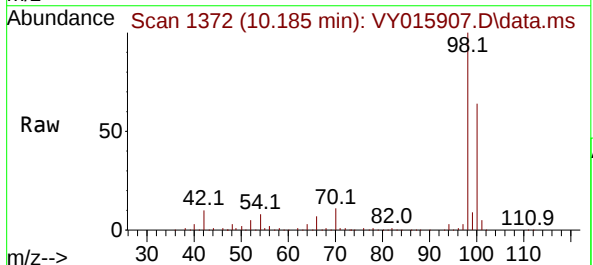
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B-1(0-5)

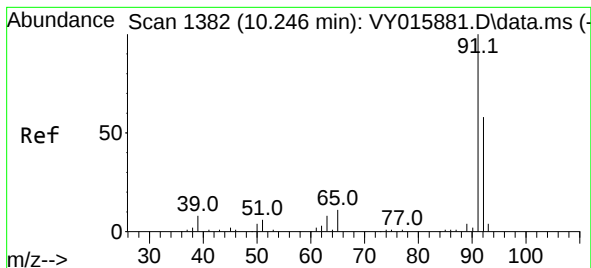
Tgt Ion: 78 Resp: 29913
Ion Ratio Lower Upper
78 100
77 23.2 19.0 28.6



#50
Toluene-d8
Concen: 62.207 ug/l
RT: 10.185 min Scan# 1372
Delta R.T. 0.000 min
Lab File: VY015907.D
Acq: 10 Oct 2023 19:12

Tgt Ion: 98 Resp: 287700
Ion Ratio Lower Upper
98 100
100 65.0 50.1 75.1





#52

Toluene

Concen: 4.351 ug/l

RT: 10.252 min Scan# 1383

Delta R.T. 0.006 min

Lab File: VY015907.D

Acq: 10 Oct 2023 19:12

Instrument :

MSVOA_Y

ClientSampleId :

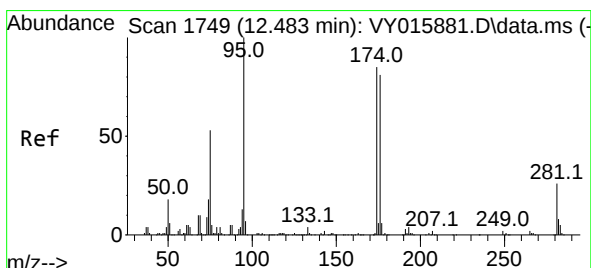
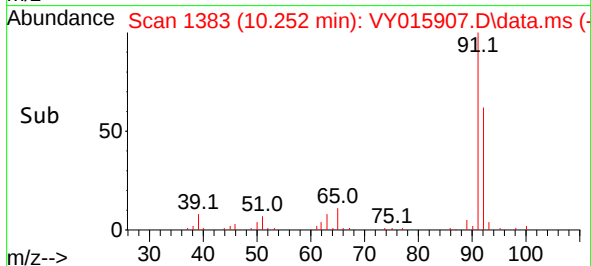
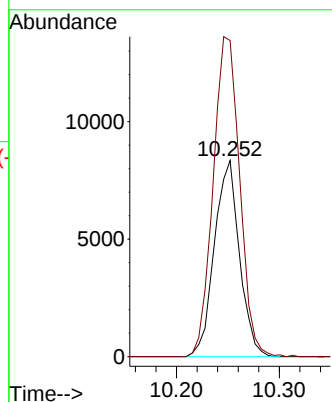
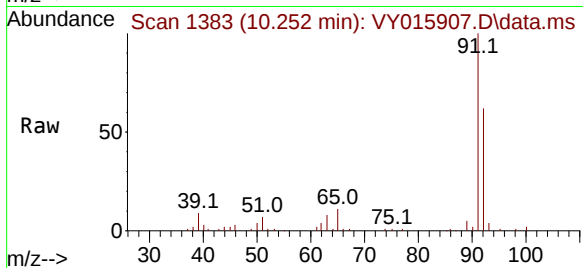
B-1(0-5)

Tgt Ion: 92 Resp: 14106

Ion Ratio Lower Upper

92 100

91 173.3 143.8 215.6



#62

4-Bromofluorobenzene

Concen: 39.072 ug/l

RT: 12.483 min Scan# 1749

Delta R.T. 0.000 min

Lab File: VY015907.D

Acq: 10 Oct 2023 19:12

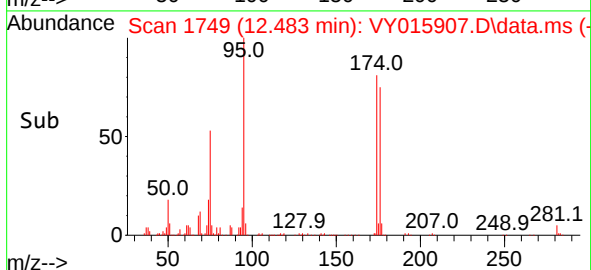
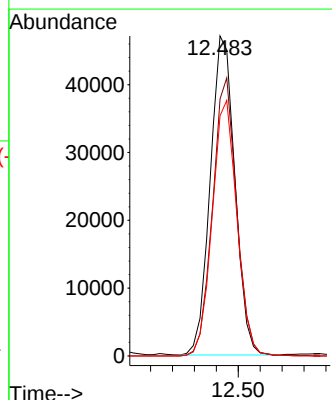
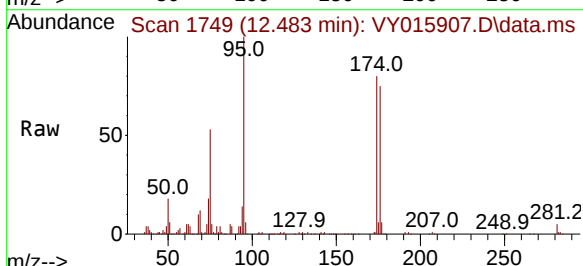
Tgt Ion: 95 Resp: 73398

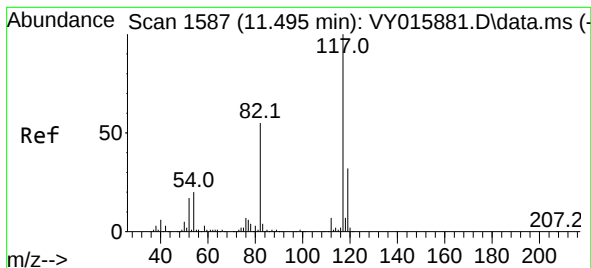
Ion Ratio Lower Upper

95 100

174 85.2 0.0 178.2

176 80.3 0.0 173.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.496 min Scan# 11

Delta R.T. 0.000 min

Lab File: VY015907.D

Acq: 10 Oct 2023 19:12

Instrument :

MSVOA_Y

ClientSampleId :

B-1(0-5)

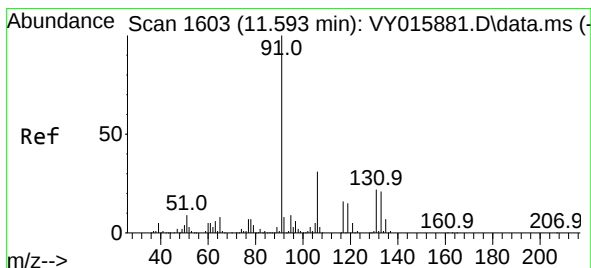
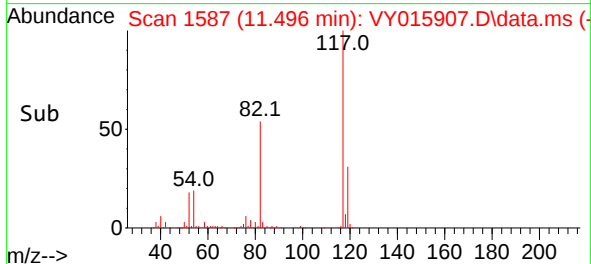
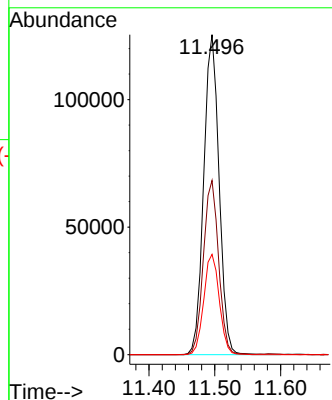
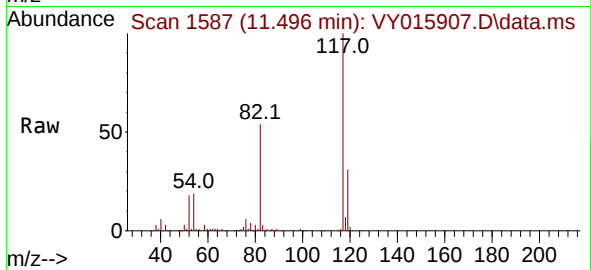
Tgt Ion:117 Resp: 203513

Ion Ratio Lower Upper

117 100

82 54.4 43.4 65.0

119 31.4 26.3 39.5



#67

Ethyl Benzene

Concen: 2.380 ug/l

RT: 11.593 min Scan# 1603

Delta R.T. 0.000 min

Lab File: VY015907.D

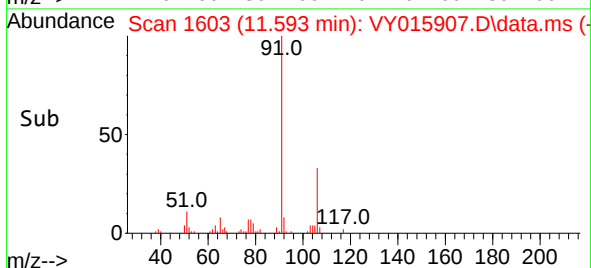
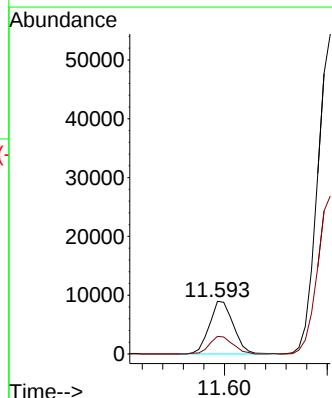
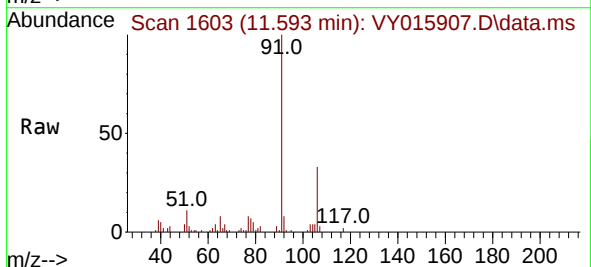
Acq: 10 Oct 2023 19:12

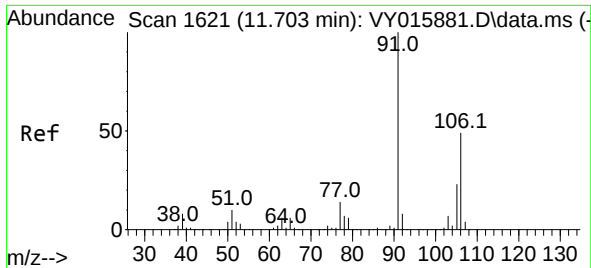
Tgt Ion: 91 Resp: 14494

Ion Ratio Lower Upper

91 100

106 33.4 24.6 36.8

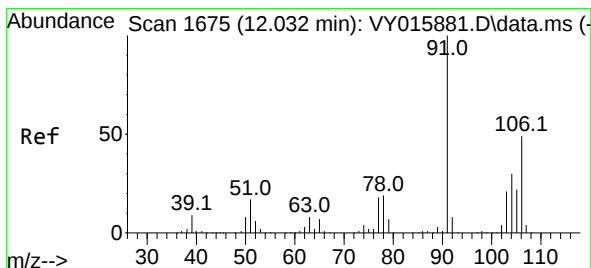
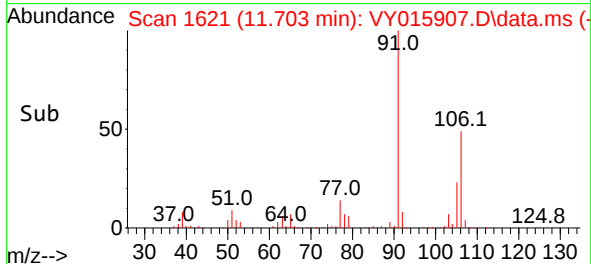
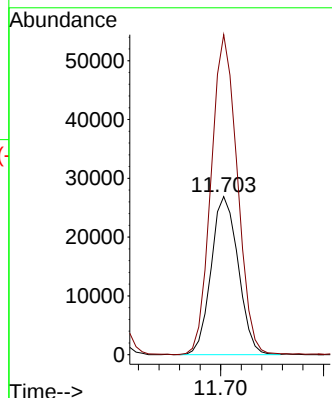
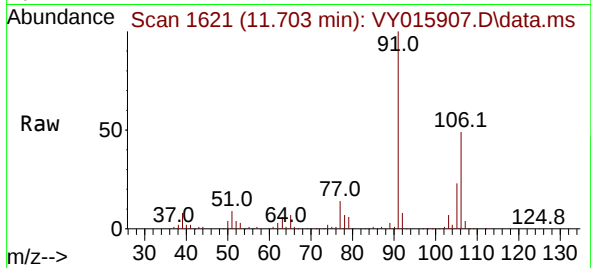




#68
m/p-Xylenes
Concen: 21.425 ug/l
RT: 11.703 min Scan# 1621
Delta R.T. 0.000 min
Lab File: VY015907.D
Acq: 10 Oct 2023 19:12

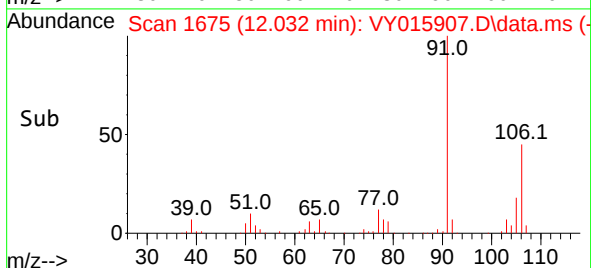
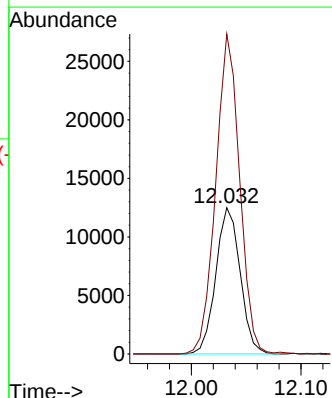
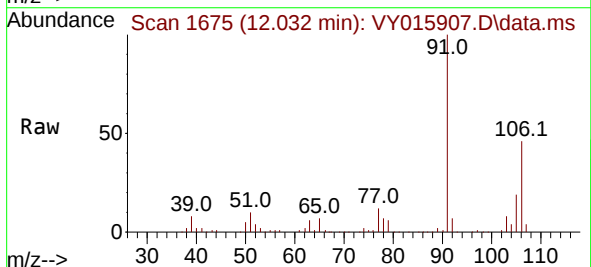
Instrument :
MSVOA_Y
ClientSampleId :
B-1(0-5)

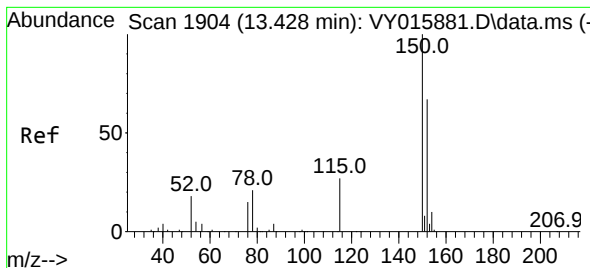
Tgt Ion:106 Resp: 49165
Ion Ratio Lower Upper
106 100
91 196.7 166.1 249.1



#69
o-Xylene
Concen: 8.392 ug/l
RT: 12.032 min Scan# 1675
Delta R.T. 0.000 min
Lab File: VY015907.D
Acq: 10 Oct 2023 19:12

Tgt Ion:106 Resp: 19269
Ion Ratio Lower Upper
106 100
91 215.6 108.1 324.3





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.428 min Scan# 1904

Delta R.T. 0.000 min

Lab File: VY015907.D

Acq: 10 Oct 2023 19:12

Instrument :

MSVOA_Y

ClientSampleId :

B-1(0-5)

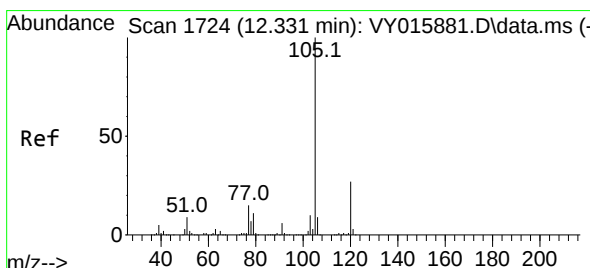
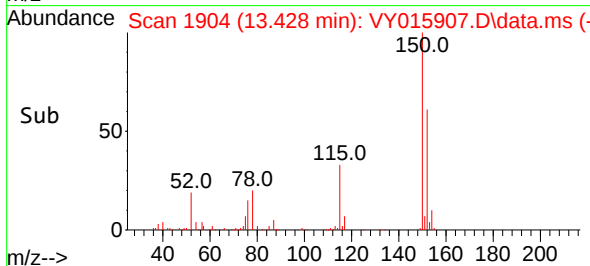
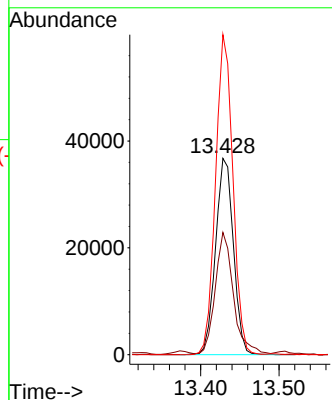
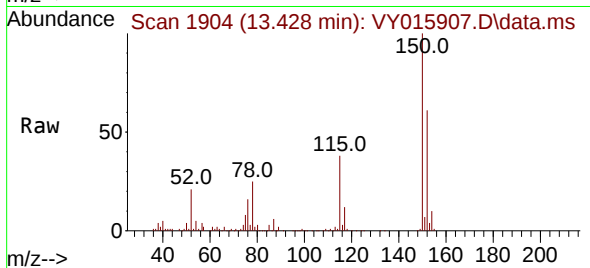
Tgt Ion:152 Resp: 58335

Ion Ratio Lower Upper

152 100

115 62.2 28.8 86.5

150 157.9 0.0 348.8



#73

Isopropylbenzene

Concen: 6.542 ug/l

RT: 12.331 min Scan# 1724

Delta R.T. 0.000 min

Lab File: VY015907.D

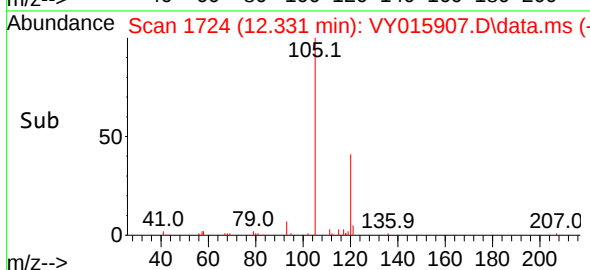
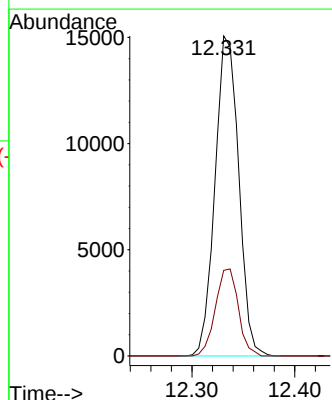
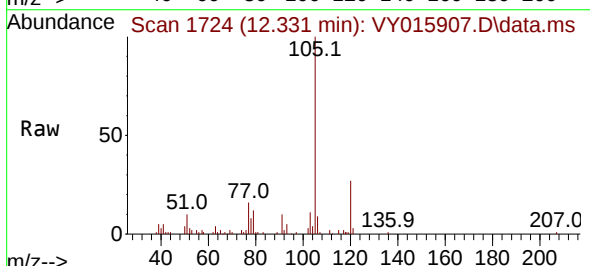
Acq: 10 Oct 2023 19:12

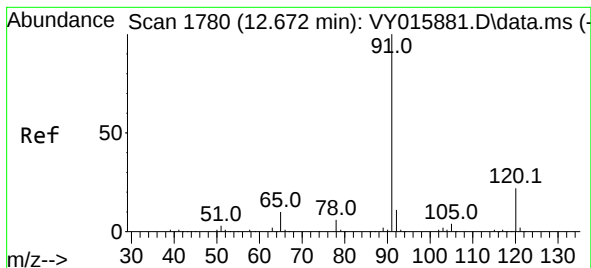
Tgt Ion:105 Resp: 24075

Ion Ratio Lower Upper

105 100

120 26.3 13.3 39.9





#78

n-propylbenzene

Concen: 1.465 ug/l

RT: 12.672 min Scan# 11

Delta R.T. 0.000 min

Lab File: VY015907.D

Acq: 10 Oct 2023 19:12

Instrument :

MSVOA_Y

ClientSampleId :

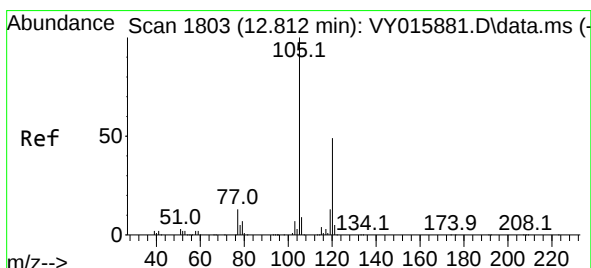
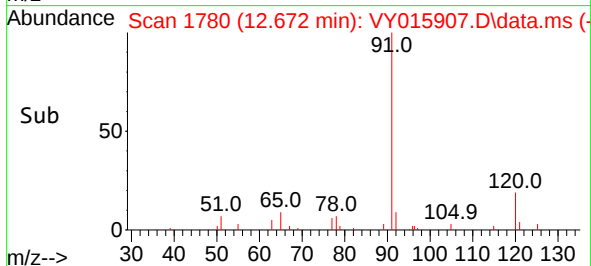
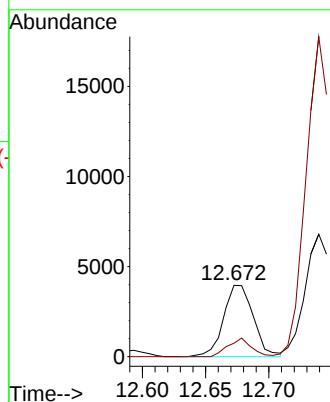
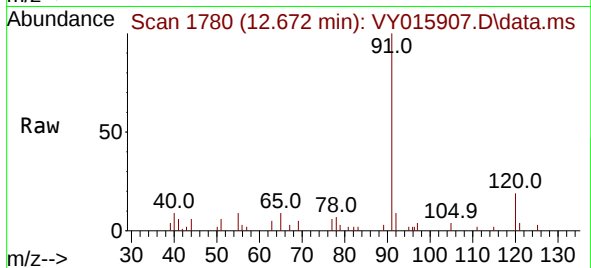
B-1(0-5)

Tgt Ion: 91 Resp: 6482

Ion Ratio Lower Upper

91 100

120 20.5 11.5 34.4



#80

1,3,5-Trimethylbenzene

Concen: 21.856 ug/l

RT: 12.819 min Scan# 1804

Delta R.T. 0.006 min

Lab File: VY015907.D

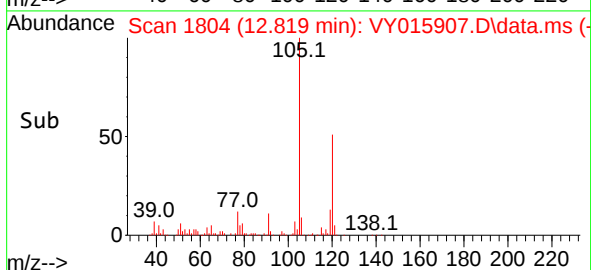
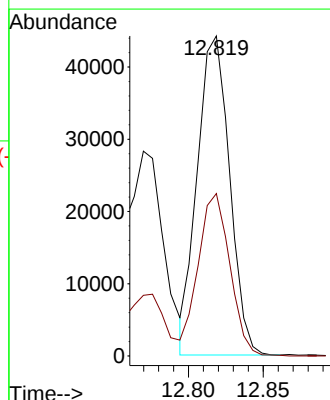
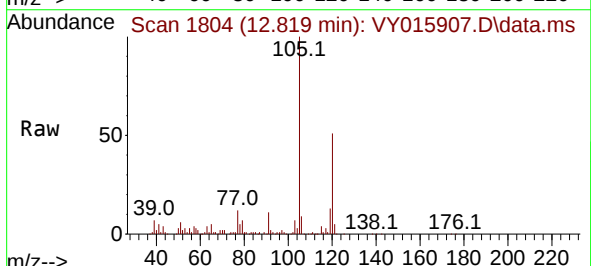
Acq: 10 Oct 2023 19:12

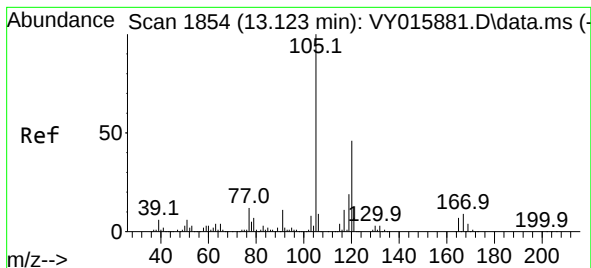
Tgt Ion:105 Resp: 66288

Ion Ratio Lower Upper

105 100

120 50.0 23.9 71.7





#84

1,2,4-Trimethylbenzene

Concen: 37.338 ug/l

RT: 13.123 min Scan# 11

Delta R.T. 0.000 min

Lab File: VY015907.D

Acq: 10 Oct 2023 19:12

Instrument :

MSVOA_Y

ClientSampleId :

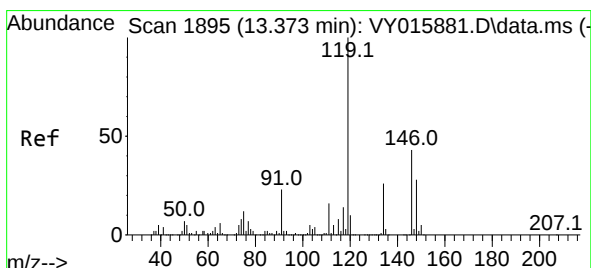
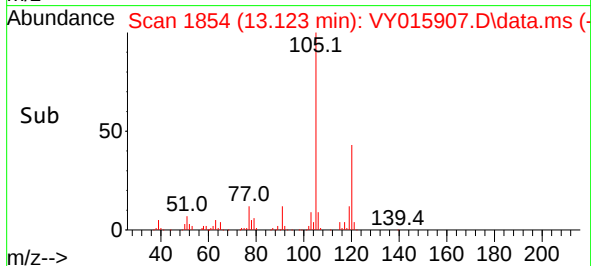
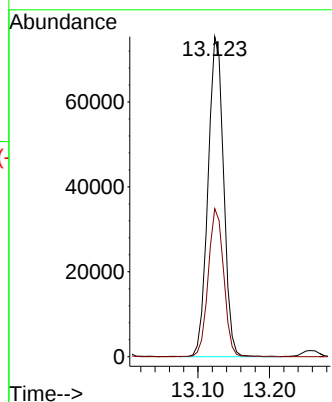
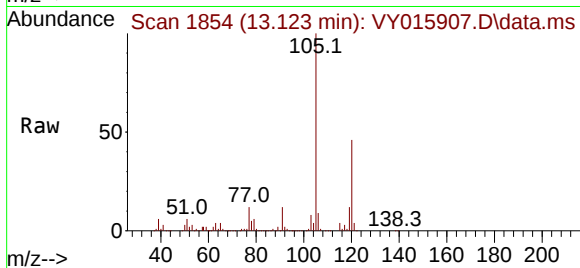
B-1(0-5)

Tgt Ion:105 Resp: 114039

Ion Ratio Lower Upper

105 100

120 45.9 22.2 66.6



#86

p-Isopropyltoluene

Concen: 3.049 ug/l

RT: 13.373 min Scan# 1895

Delta R.T. 0.000 min

Lab File: VY015907.D

Acq: 10 Oct 2023 19:12

Tgt Ion:119 Resp: 10471

Ion Ratio Lower Upper

119 100

134 26.0 13.3 39.8

91 25.1 12.4 37.4

