

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY080923\
 Data File : VY015008.D
 Acq On : 09 Aug 2023 16:18
 Operator : SY/MD
 Sample : 03945-02
 Misc : 6.78g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 NEVINS-SB01-Z78-80

Quant Time: Aug 10 04:45:08 2023
 Quant Title :
 QLast Update : Tue Aug 08 07:44:56 2023
 Response via : Initial Calibration

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

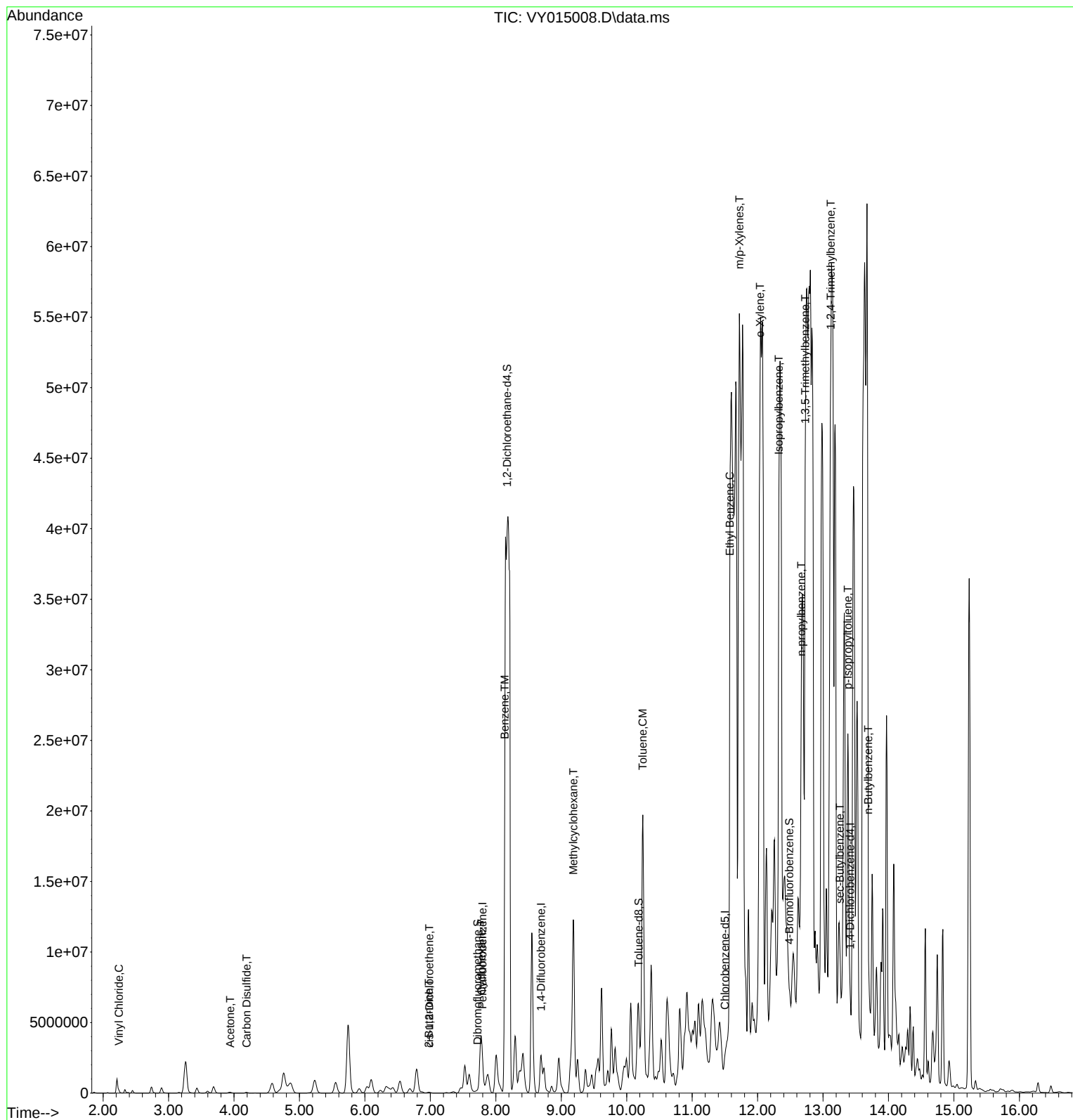
Internal Standards						
1) Pentafluorobenzene	7.795	168	209346	50.000	ug/l	0.01
34) 1,4-Difluorobenzene	8.691	114	386974	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.501	117	301582	50.000	ug/l	# 0.01
72) 1,4-Dichlorobenzene-d4	13.416	152	108455m	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.173	65	68738	27.091	ug/l	0.04
Spiked Amount	50.000	Range	50 - 163	Recovery	=	54.180%
35) Dibromofluoromethane	7.722	113	117730	47.575	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	95.160%
50) Toluene-d8	10.185	98	698817	74.192	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	148.380%#
62) 4-Bromofluorobenzene	12.483	95	637496m	190.967	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	381.940%#
Target Compounds						
					Qvalue	
4) Vinyl Chloride	2.241	62	3351	1.651	ug/l	98
16) Acetone	3.942	43	63919	80.785	ug/l	# 82
17) Carbon Disulfide	4.192	76	114408	31.272	ug/l	99
25) 2-Butanone	6.978	43	37666	33.237	ug/l	# 61
27) cis-1,2-Dichloroethene	6.984	96	2473	1.036	ug/l	91
31) Cyclohexane	7.782	56	1741569	709.858	ug/l	95
39) Methylcyclohexane	9.185	83	5441087	1489.244	ug/l	96
40) Benzene	8.136	78	48981616m	5414.331	ug/l	
52) Toluene	10.245	92	8173680	1404.008	ug/l	87
67) Ethyl Benzene	11.575	91	62778092m	6250.970	ug/l	
68) m/p-Xylenes	11.721	106	41307104m	10751.720	ug/l	
69) o-Xylene	12.038	106	33835807m	9000.463	ug/l	
73) Isopropylbenzene	12.324	105	29931728m	4105.556	ug/l	
78) n-propylbenzene	12.666	91	29092451m	3336.349	ug/l	
80) 1,3,5-Trimethylbenzene	12.727	105	70522618m	11738.285	ug/l	
84) 1,2,4-Trimethylbenzene	13.117	105	30783584m	5114.128	ug/l	
85) sec-Butylbenzene	13.257	105	1529514	189.617	ug/l	# 56
86) p-Isopropyltoluene	13.379	119	10706430	1603.492	ug/l	92
89) n-Butylbenzene	13.690	91	1852407m	295.276	ug/l	

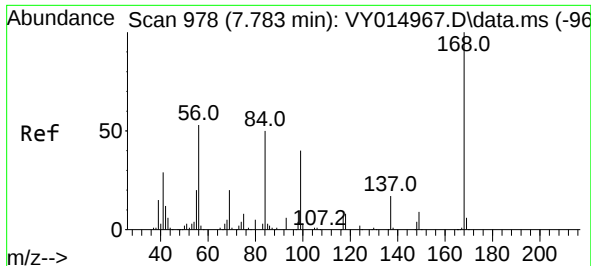
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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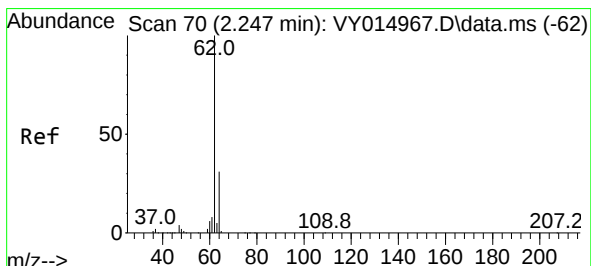
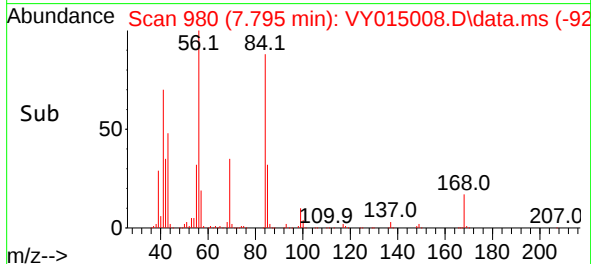
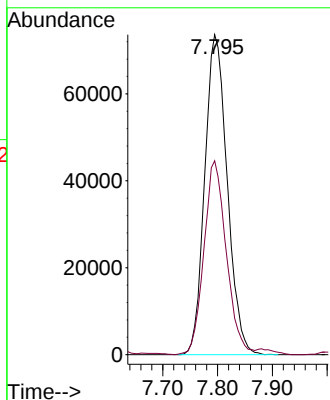
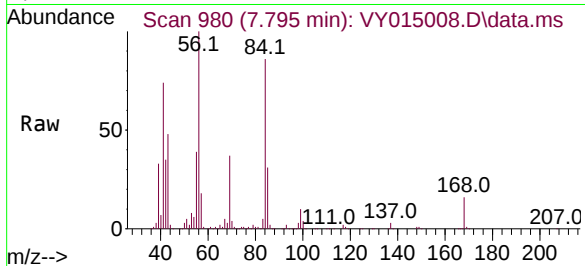




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.795 min Scan# 91
Delta R.T. 0.012 min
Lab File: VY015008.D
Acq: 09 Aug 2023 16:18

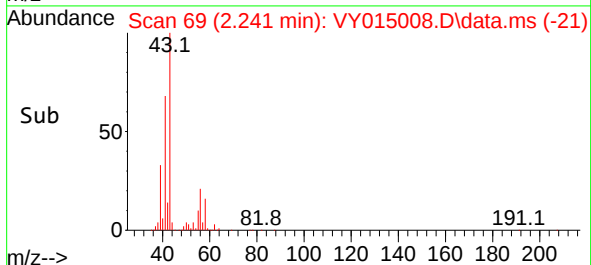
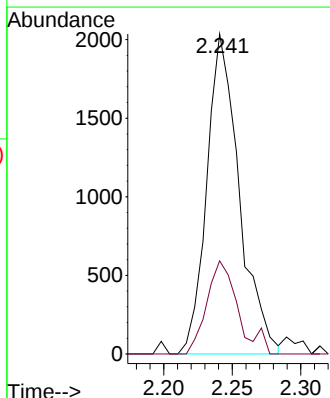
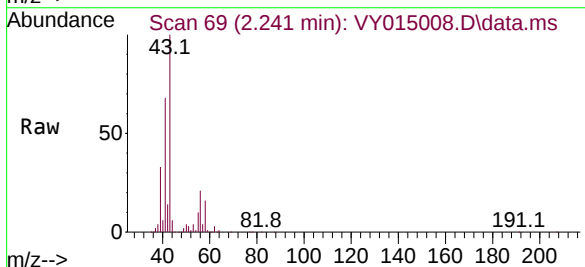
Instrument :
MSVOA_Y
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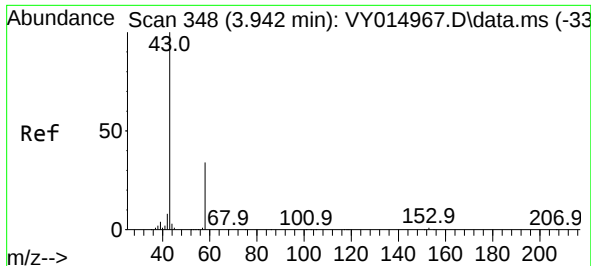
Tgt Ion:168 Resp: 209346
Ion Ratio Lower Upper
168 100
99 60.5 43.4 65.0



#4
Vinyl Chloride
Concen: 1.651 ug/l
RT: 2.241 min Scan# 69
Delta R.T. -0.006 min
Lab File: VY015008.D
Acq: 09 Aug 2023 16:18

Tgt Ion: 62 Resp: 3351
Ion Ratio Lower Upper
62 100
64 29.1 24.3 36.5

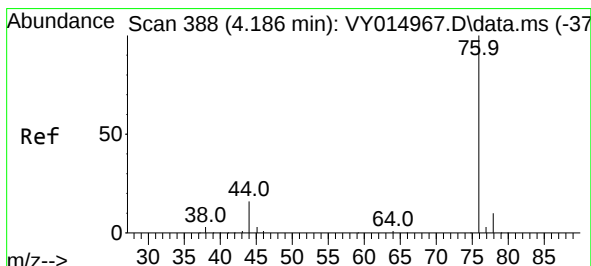
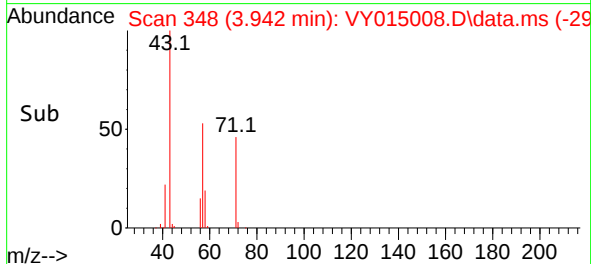
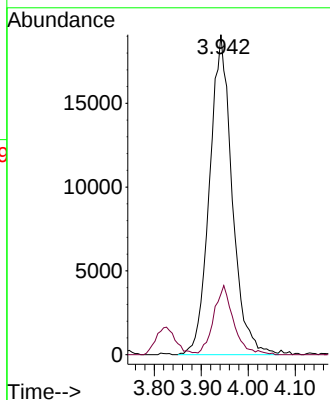
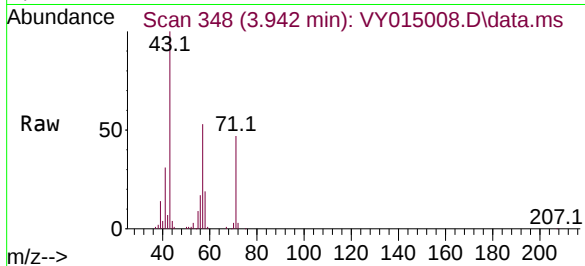




#16
Acetone
Concen: 80.785 ug/l
RT: 3.942 min Scan# 341
Delta R.T. -0.000 min
Lab File: VY015008.D
Acq: 09 Aug 2023 16:18

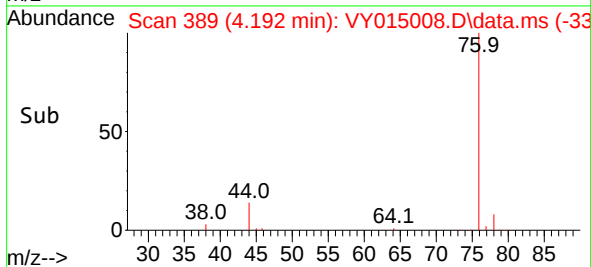
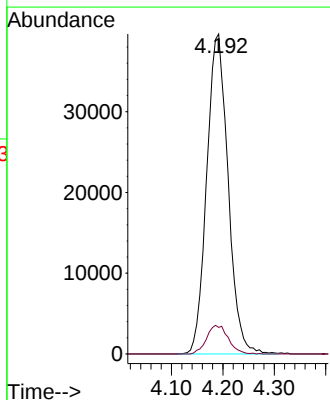
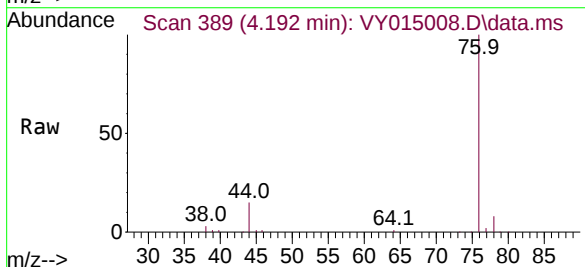
Instrument :
MSVOA_Y
ClientSampleId :
NEVINS-SB01-Z78-80

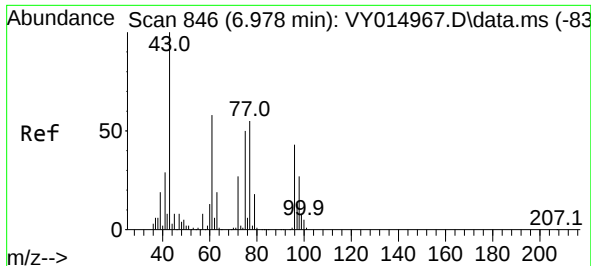
Tgt Ion: 43 Resp: 63919
Ion Ratio Lower Upper
43 100
58 19.0 22.7 34.1#



#17
Carbon Disulfide
Concen: 31.272 ug/l
RT: 4.192 min Scan# 389
Delta R.T. 0.006 min
Lab File: VY015008.D
Acq: 09 Aug 2023 16:18

Tgt Ion: 76 Resp: 114408
Ion Ratio Lower Upper
76 100
78 8.3 7.0 10.4

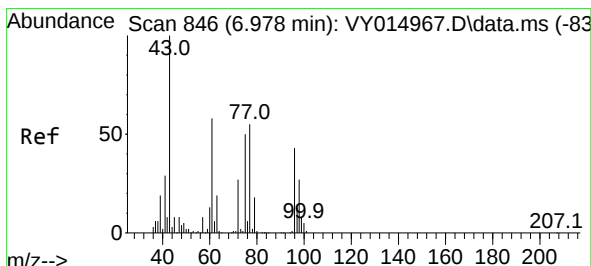
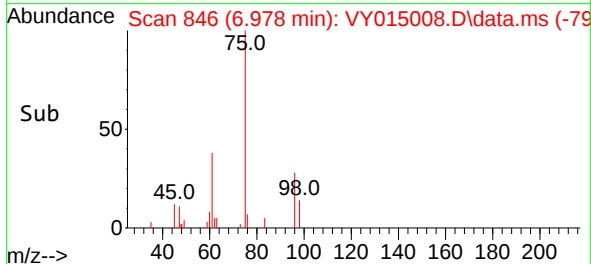
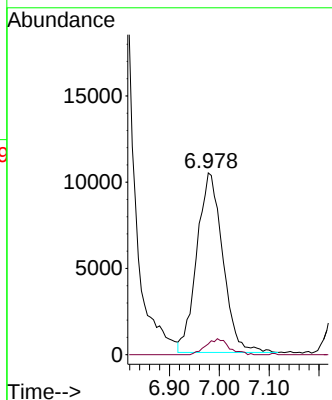
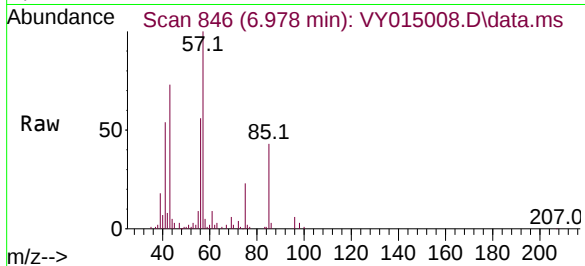




#25
2-Butanone
Concen: 33.237 ug/l
RT: 6.978 min Scan# 846
Delta R.T. -0.000 min
Lab File: VY015008.D
Acq: 09 Aug 2023 16:18

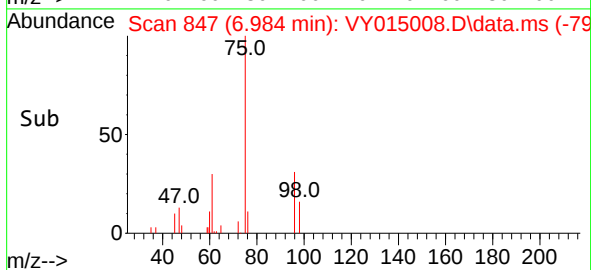
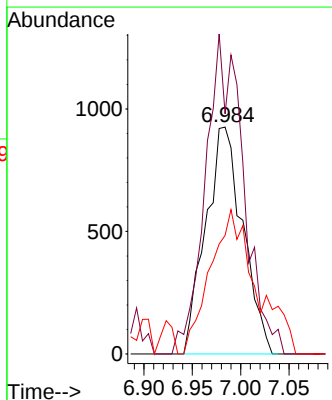
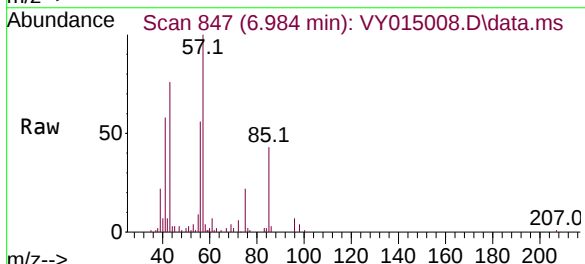
Instrument :
MSVOA_Y
ClientSampleId :
NEVINS-SB01-Z78-80

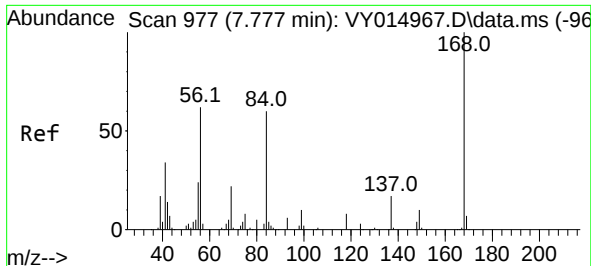
Tgt Ion: 43 Resp: 37666
Ion Ratio Lower Upper
43 100
72 6.0 20.5 30.7#



#27
cis-1,2-Dichloroethene
Concen: 1.036 ug/l
RT: 6.984 min Scan# 847
Delta R.T. 0.006 min
Lab File: VY015008.D
Acq: 09 Aug 2023 16:18

Tgt Ion: 96 Resp: 2473
Ion Ratio Lower Upper
96 100
61 144.1 0.0 301.4
98 78.5 0.0 130.4

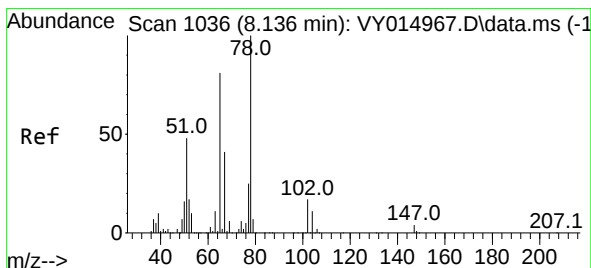
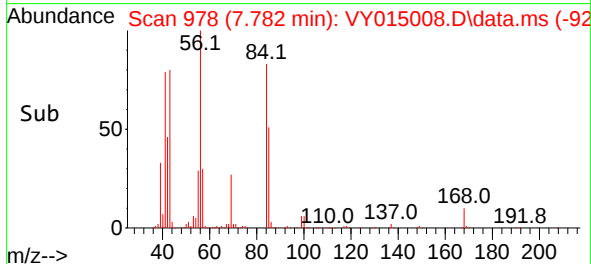
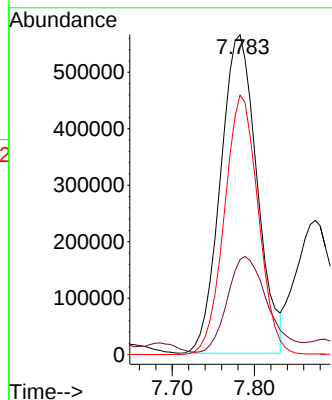
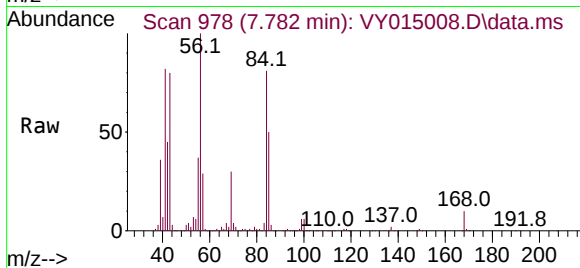




#31
Cyclohexane
Concen: 709.858 ug/l
RT: 7.782 min Scan# 91
Delta R.T. 0.005 min
Lab File: VY015008.D
Acq: 09 Aug 2023 16:18

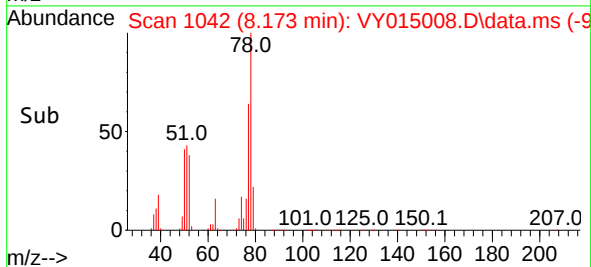
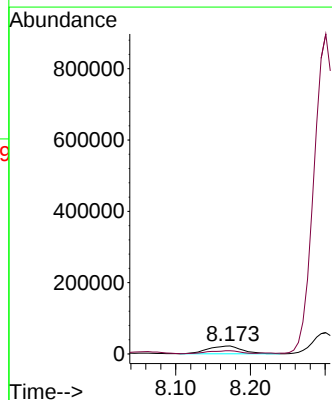
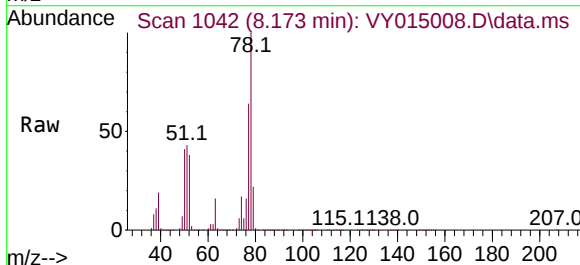
Instrument :
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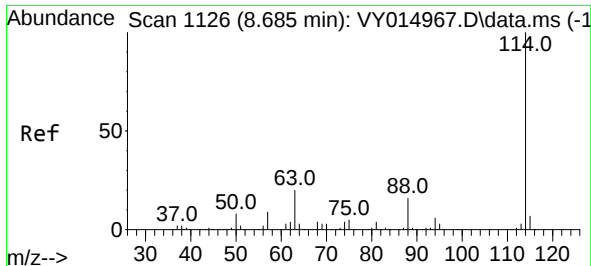
Tgt Ion: 56 Resp: 1741569
Ion Ratio Lower Upper
56 100
69 28.0 27.8 41.6
84 81.4 66.4 99.6



#33
1,2-Dichloroethane-d4
Concen: 27.091 ug/l
RT: 8.173 min Scan# 1042
Delta R.T. 0.036 min
Lab File: VY015008.D
Acq: 09 Aug 2023 16:18

Tgt Ion: 65 Resp: 68738
Ion Ratio Lower Upper
65 100
67 0.0 0.0 101.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.691 min Scan# 1127

Delta R.T. 0.006 min

Lab File: VY015008.D

Acq: 09 Aug 2023 16:18

Instrument :

MSVOA_Y

ClientSampleId :

NEVINS-SB01-Z78-80

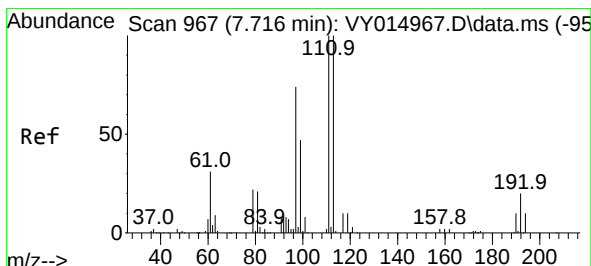
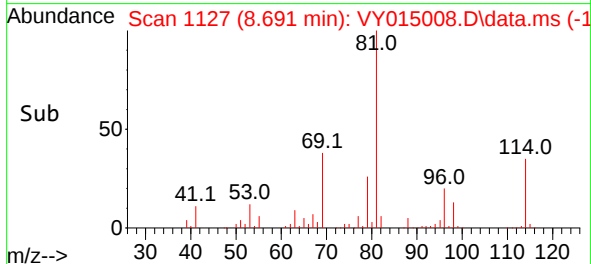
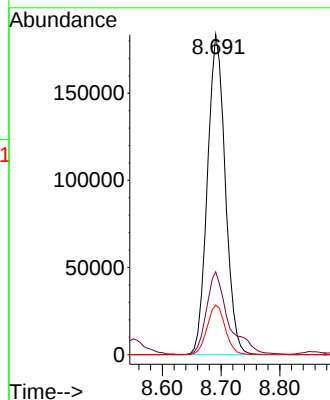
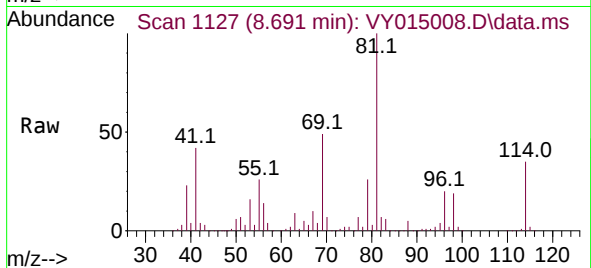
Tgt Ion:114 Resp: 386974

Ion Ratio Lower Upper

114 100

63 25.8 0.0 42.4

88 15.5 0.0 30.6



#35

Dibromofluoromethane

Concen: 47.575 ug/l

RT: 7.722 min Scan# 968

Delta R.T. 0.006 min

Lab File: VY015008.D

Acq: 09 Aug 2023 16:18

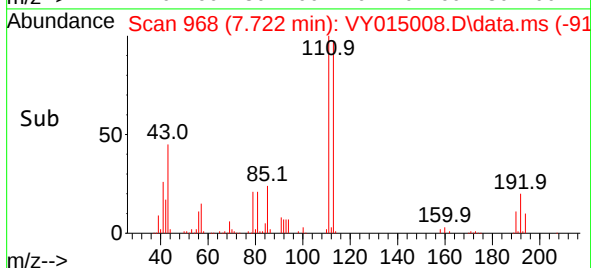
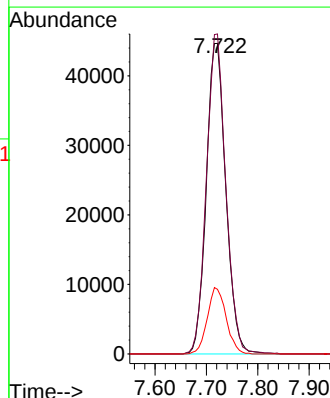
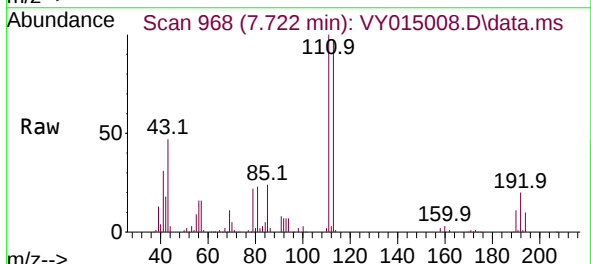
Tgt Ion:113 Resp: 117730

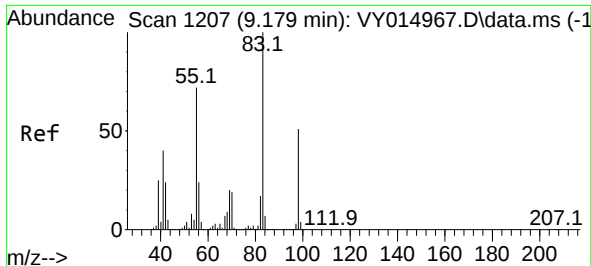
Ion Ratio Lower Upper

113 100

111 102.3 81.3 121.9

192 20.7 16.9 25.3





#39

Methylcyclohexane

Concen: 1489.244 ug/l

RT: 9.185 min Scan# 1

Delta R.T. 0.006 min

Lab File: VY015008.D

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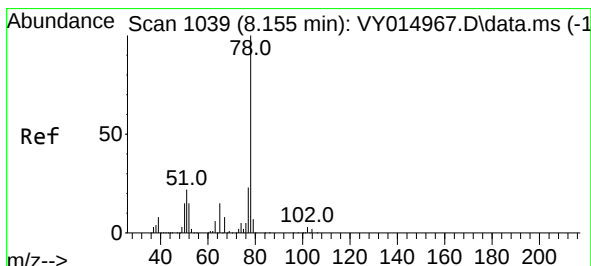
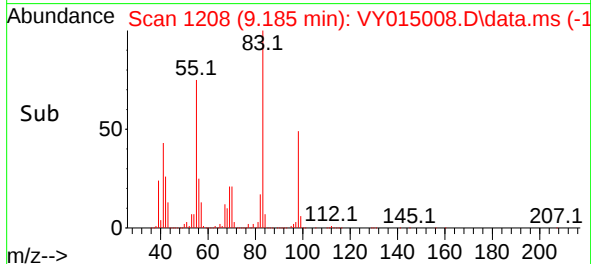
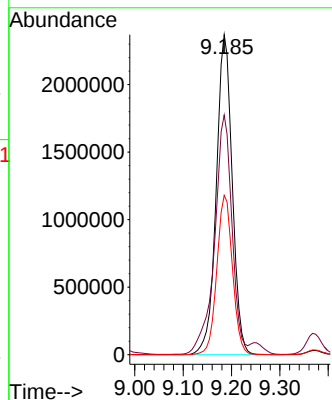
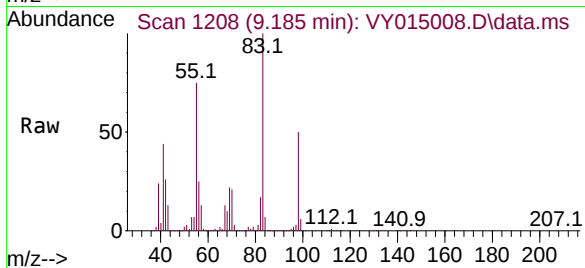
Tgt Ion: 83 Resp: 5441087

Ion Ratio Lower Upper

83 100

55 74.8 63.0 94.4

98 49.8 37.4 56.2



#40

Benzene

Concen: 5414.331 ug/l m

RT: 8.136 min Scan# 1036

Delta R.T. -0.019 min

Lab File: VY015008.D

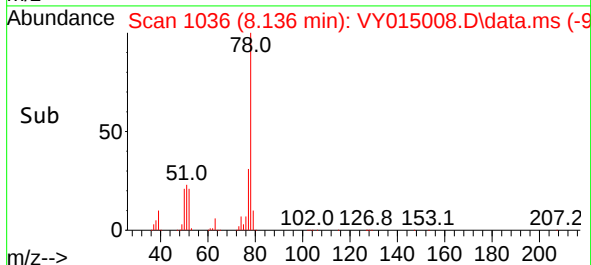
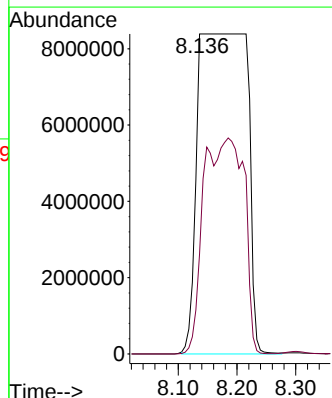
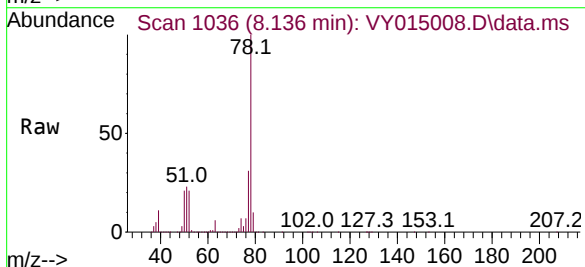
Acq: 09 Aug 2023 16:18

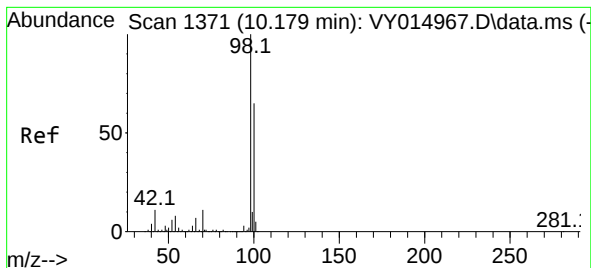
Tgt Ion: 78 Resp: 48981616

Ion Ratio Lower Upper

78 100

77 31.3 19.0 28.6#





#50

Toluene-d8

Concen: 74.192 ug/l

RT: 10.185 min Scan# 11

Delta R.T. 0.006 min

Lab File: VY015008.D

Acq: 09 Aug 2023 16:18

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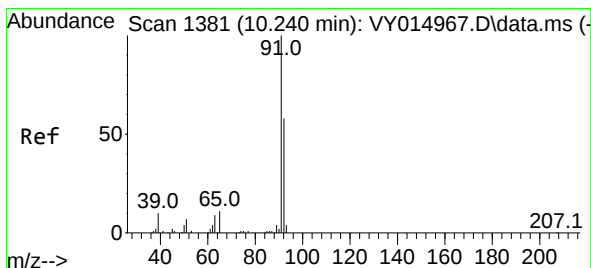
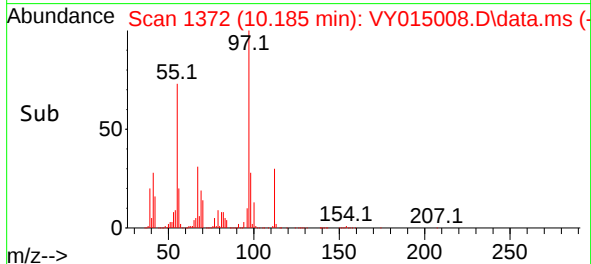
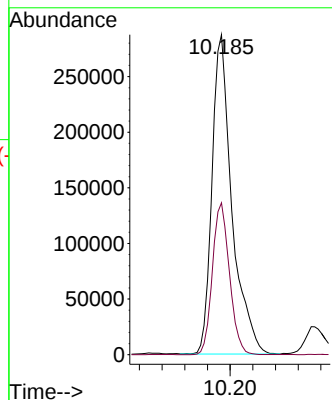
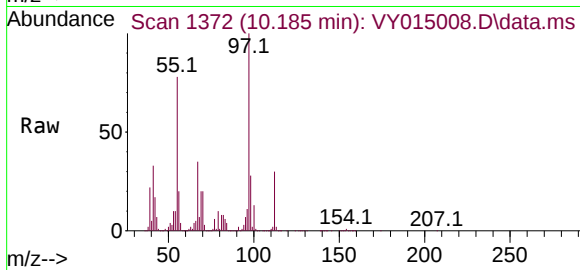
NEVINS-SB01-Z78-80

Tgt Ion: 98 Resp: 698817

Ion Ratio Lower Upper

98 100

100 40.8 50.1 75.1#



#52

Toluene

Concen: 1404.008 ug/l

RT: 10.245 min Scan# 1382

Delta R.T. 0.006 min

Lab File: VY015008.D

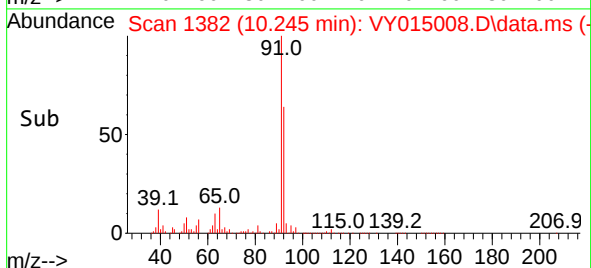
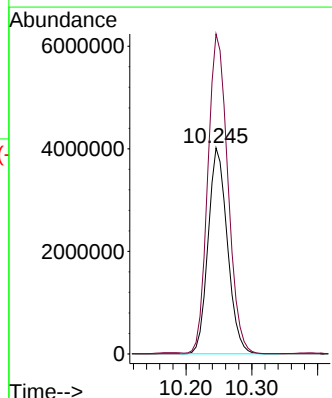
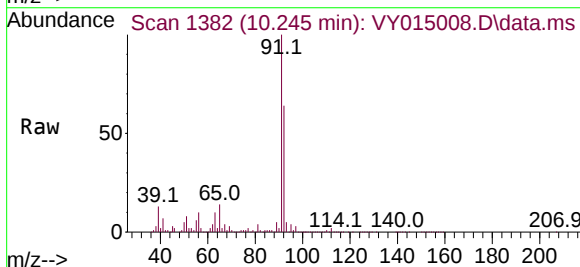
Acq: 09 Aug 2023 16:18

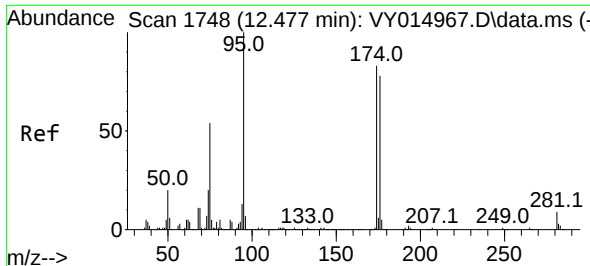
Tgt Ion: 92 Resp: 8173680

Ion Ratio Lower Upper

92 100

91 161.8 143.8 215.6

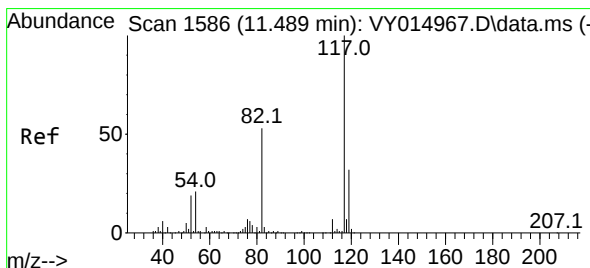
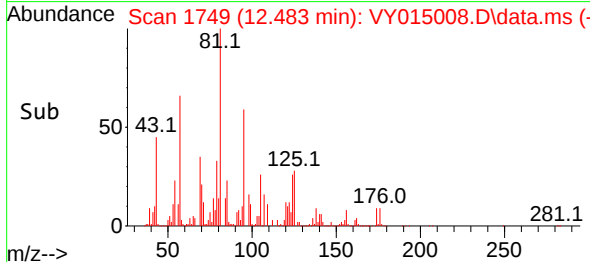
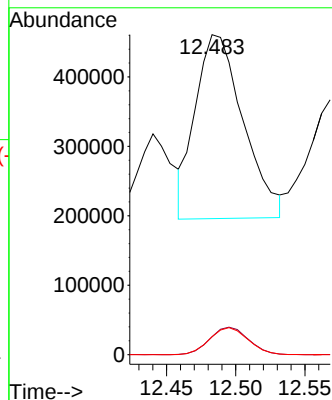
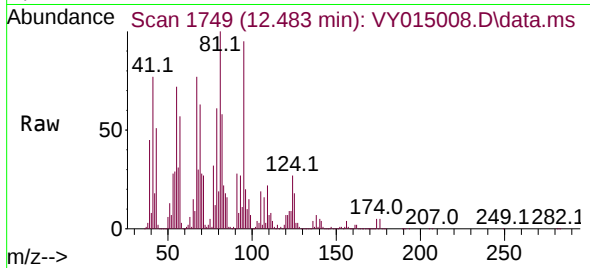




#62
4-Bromofluorobenzene
Concen: 190.967 ug/l m
RT: 12.483 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY015008.D
Acq: 09 Aug 2023 16:18

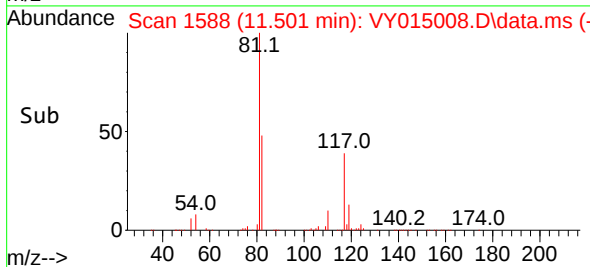
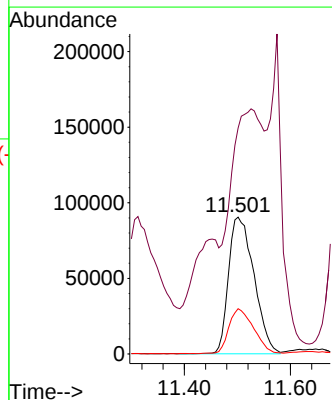
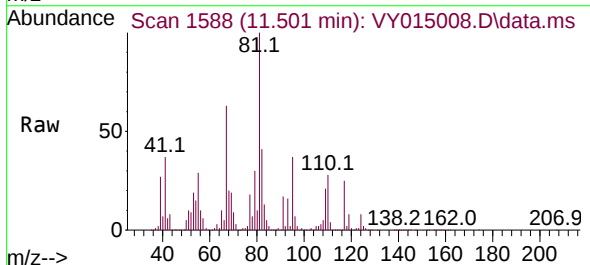
Instrument :
MSVOA_Y
ClientSampleId :
NEVINS-SB01-Z78-80

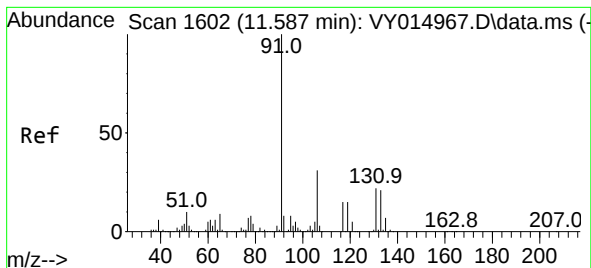
Tgt Ion: 95 Resp: 637496
Ion Ratio Lower Upper
95 100
174 12.1 0.0 178.2
176 11.9 0.0 173.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.501 min Scan# 1588
Delta R.T. 0.012 min
Lab File: VY015008.D
Acq: 09 Aug 2023 16:18

Tgt Ion: 117 Resp: 301582
Ion Ratio Lower Upper
117 100
82 132.2 43.4 65.0#
119 32.8 26.3 39.5





#67

Ethyl Benzene

Concen: 6250.970 ug/l m

RT: 11.575 min Scan# 1

Delta R.T. -0.012 min

Lab File: VY015008.D

Acq: 09 Aug 2023 16:18

Instrument :

MSVOA_Y

ClientSampleId :

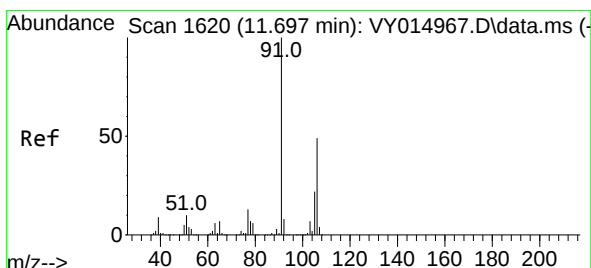
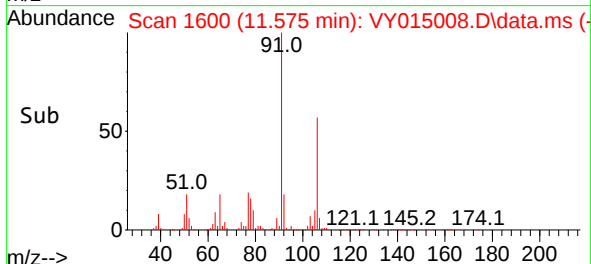
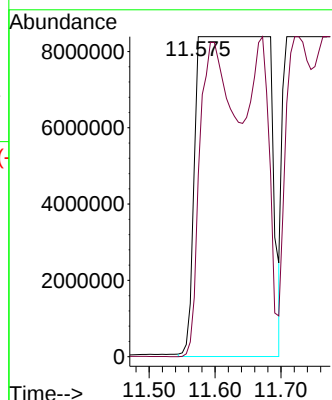
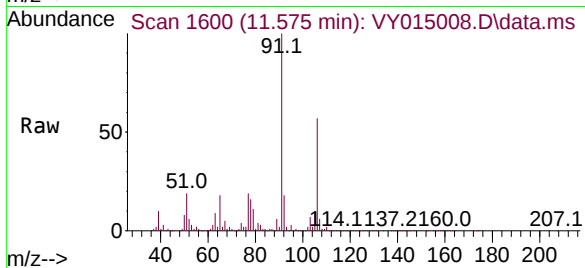
NEVINS-SB01-Z78-80

Tgt Ion: 91 Resp:62778092

Ion Ratio Lower Upper

91 100

106 56.7 24.6 36.8#



#68

m/p-Xylenes

Concen: 10751.720 ug/l m

RT: 11.721 min Scan# 1624

Delta R.T. 0.024 min

Lab File: VY015008.D

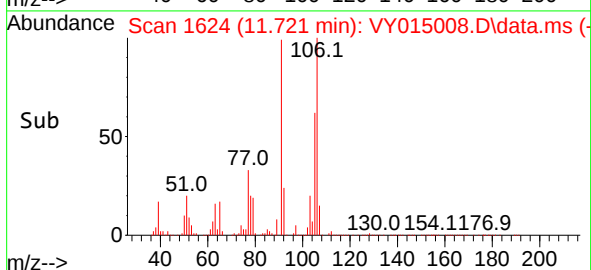
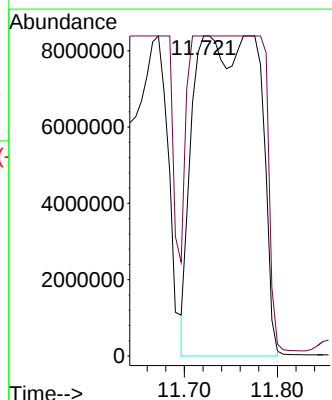
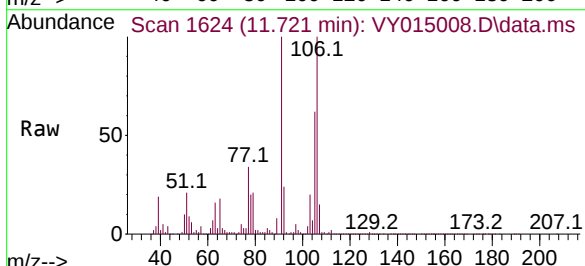
Acq: 09 Aug 2023 16:18

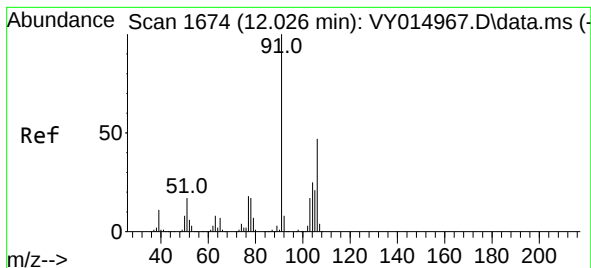
Tgt Ion:106 Resp:41307104

Ion Ratio Lower Upper

106 100

91 6.7 166.1 249.1#





#69

o-Xylene

Concen: 9000.463 ug/l m

RT: 12.038 min Scan# 1

Delta R.T. 0.012 min

Lab File: VY015008.D

Acq: 09 Aug 2023 16:18

Instrument :

MSVOA_Y

ClientSampleId :

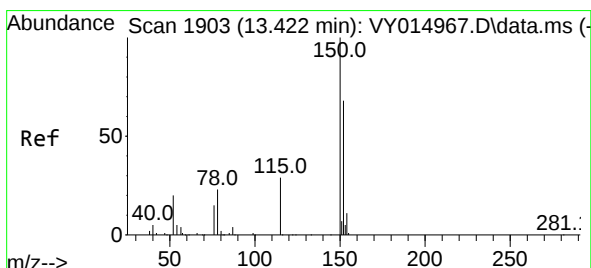
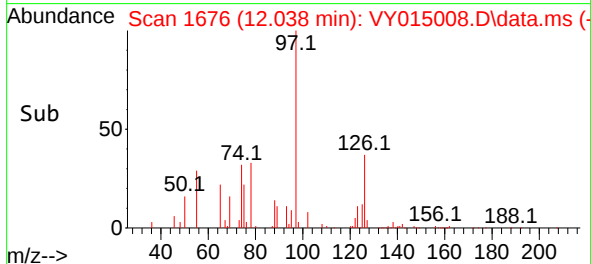
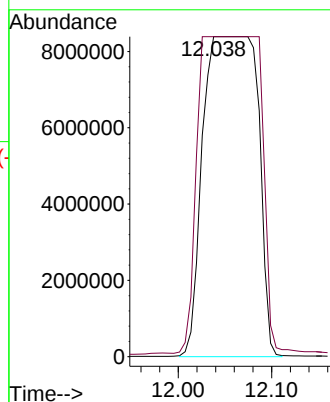
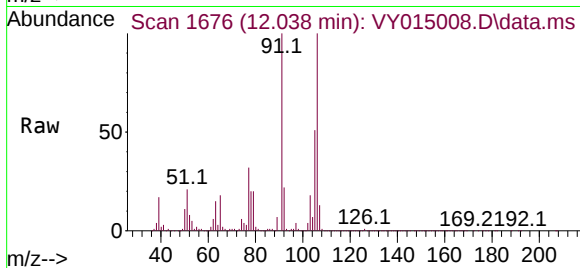
NEVINS-SB01-Z78-80

Tgt Ion:106 Resp:33835807

Ion Ratio Lower Upper

106 100

91 0.0 108.1 324.3#



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l m

RT: 13.416 min Scan# 1902

Delta R.T. -0.006 min

Lab File: VY015008.D

Acq: 09 Aug 2023 16:18

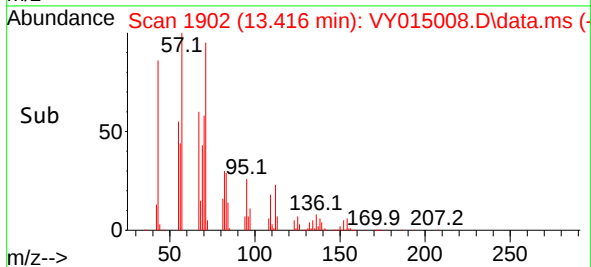
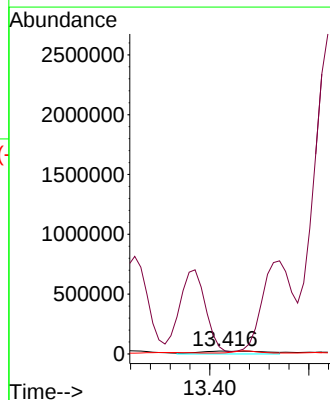
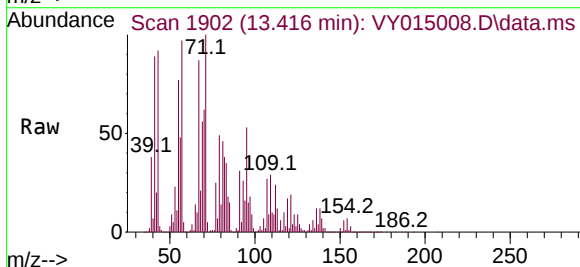
Tgt Ion:152 Resp: 108455

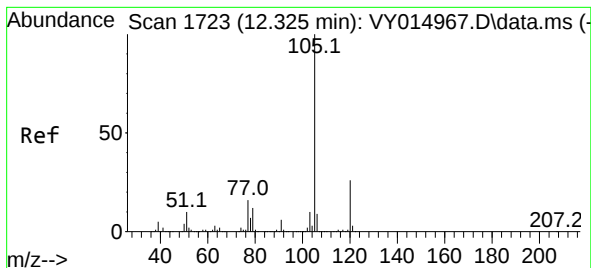
Ion Ratio Lower Upper

152 100

115 0.0 28.8 86.5#

150 27.6 0.0 348.8





#73

Isopropylbenzene

Concen: 4105.556 ug/l m

RT: 12.324 min Scan# 1723

Delta R.T. -0.000 min

Lab File: VY015008.D

Acq: 09 Aug 2023 16:18

Instrument :

MSVOA_Y

ClientSampleId :

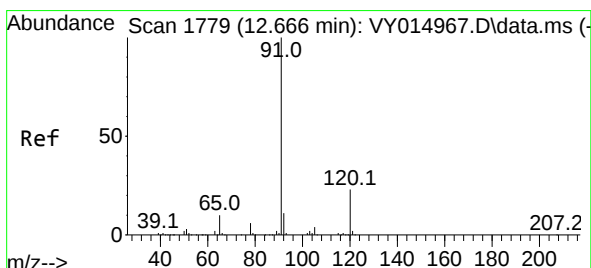
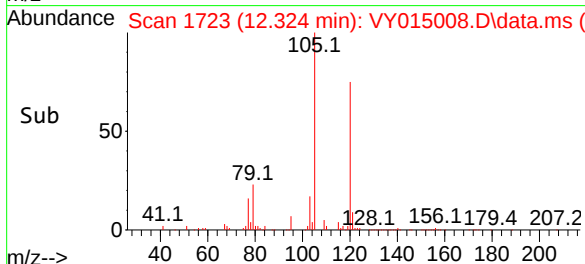
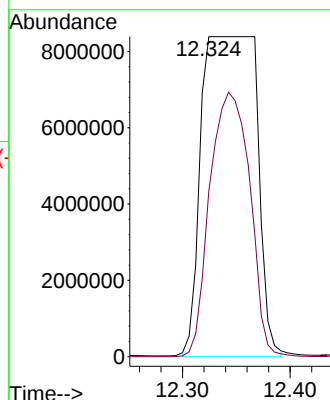
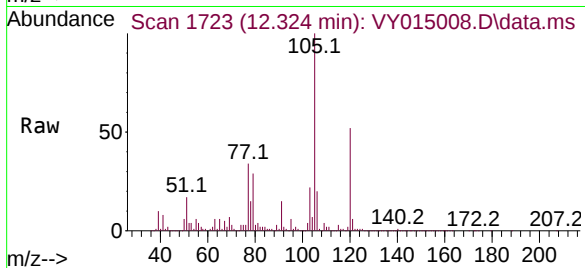
NEVINS-SB01-Z78-80

Tgt Ion:105 Resp:29931728

Ion Ratio Lower Upper

105 100

120 0.0 13.3 39.9#



#78

n-propylbenzene

Concen: 3336.349 ug/l m

RT: 12.666 min Scan# 1779

Delta R.T. -0.000 min

Lab File: VY015008.D

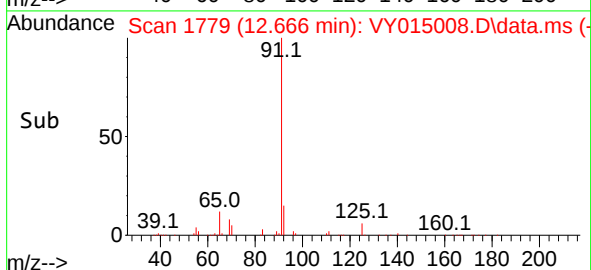
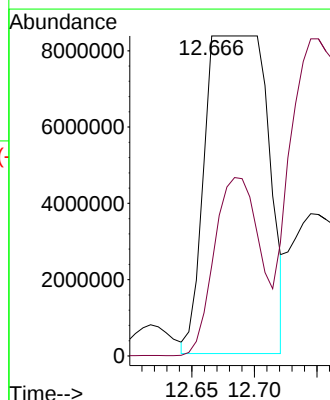
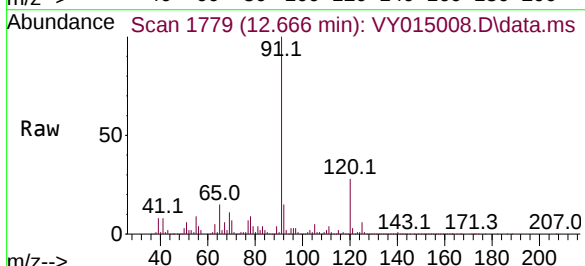
Acq: 09 Aug 2023 16:18

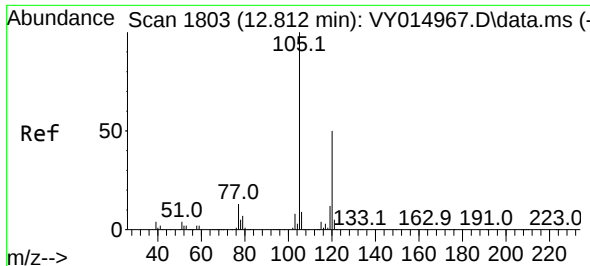
Tgt Ion: 91 Resp:29092451

Ion Ratio Lower Upper

91 100

120 41.0 11.5 34.4#

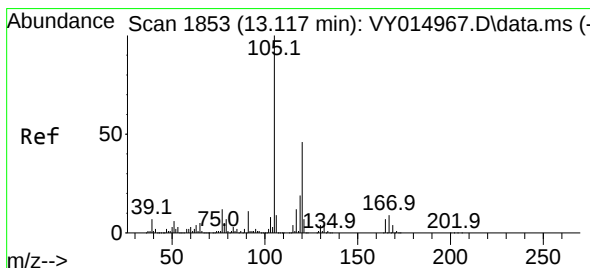
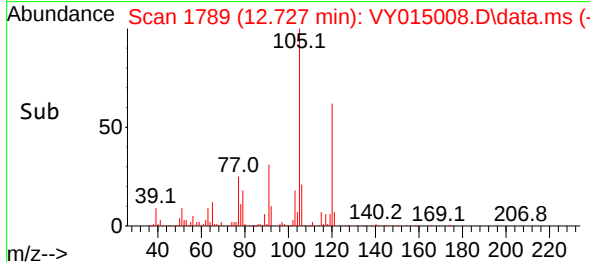
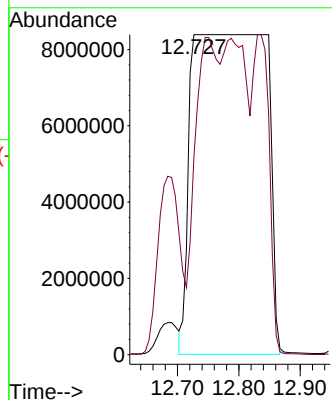
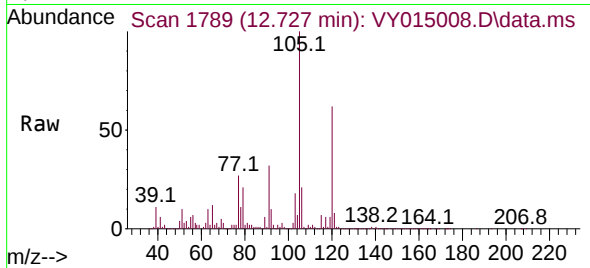




#80
1,3,5-Trimethylbenzene
Concen: 11738.285 ug/l m
RT: 12.727 min Scan# 1789
Delta R.T. -0.086 min
Lab File: VY015008.D
Acq: 09 Aug 2023 16:18

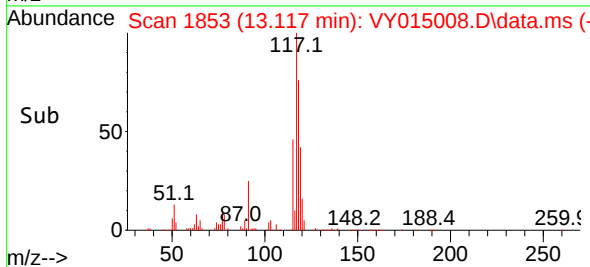
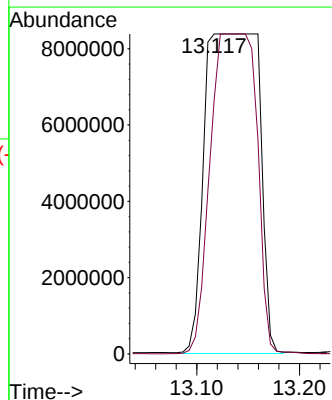
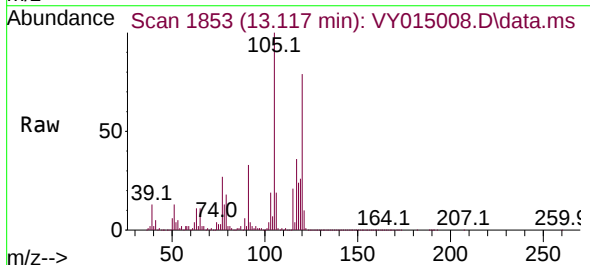
Instrument :
MSVOA_Y
ClientSampleId :
NEVINS-SB01-Z78-80

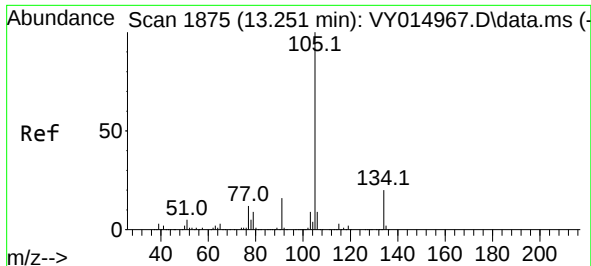
Tgt Ion:105 Resp:70522618
Ion Ratio Lower Upper
105 100
120 24.2 23.9 71.7



#84
1,2,4-Trimethylbenzene
Concen: 5114.128 ug/l m
RT: 13.117 min Scan# 1853
Delta R.T. -0.000 min
Lab File: VY015008.D
Acq: 09 Aug 2023 16:18

Tgt Ion:105 Resp:30783584
Ion Ratio Lower Upper
105 100
120 0.0 22.2 66.6#

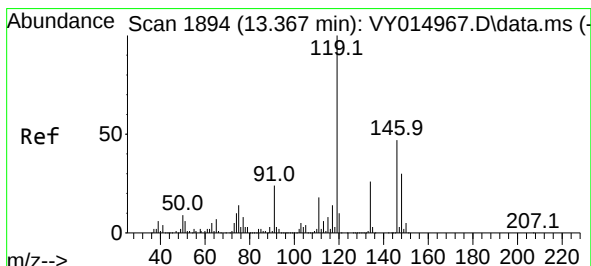
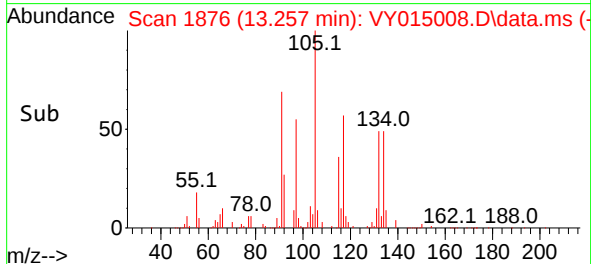
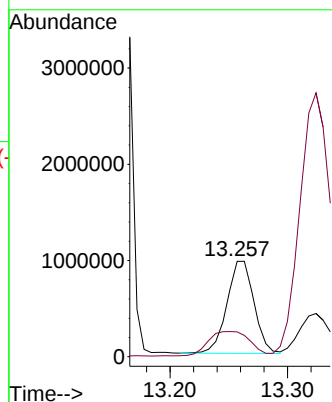
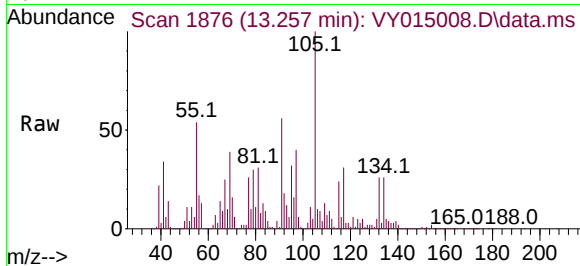




#85
 sec-Butylbenzene
 Concen: 189.617 ug/l
 RT: 13.257 min Scan# 1875
 Delta R.T. 0.006 min
 Lab File: VY015008.D
 Acq: 09 Aug 2023 16:18

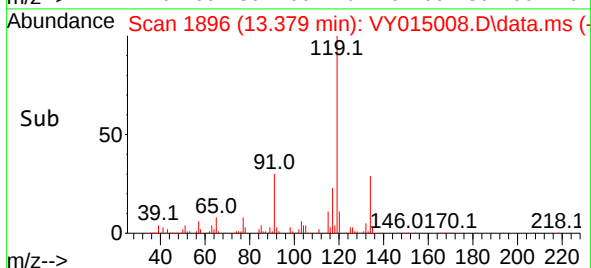
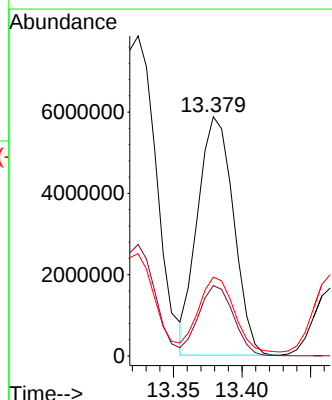
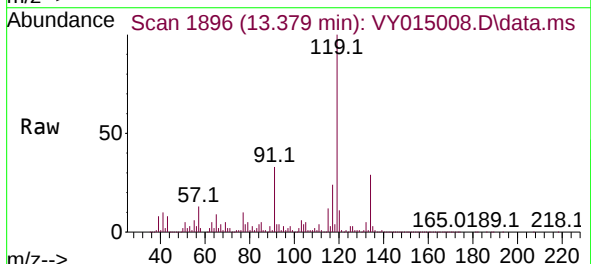
Instrument :
 MSVOA_Y
 ClientSampleId :
 NEVINS-SB01-Z78-80

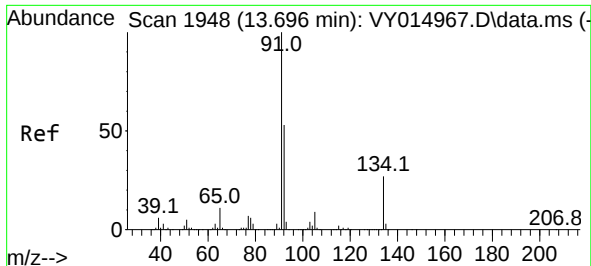
Tgt Ion:105 Resp: 1529514
 Ion Ratio Lower Upper
 105 100
 134 41.0 10.2 30.6#



#86
 p-Isopropyltoluene
 Concen: 1603.492 ug/l
 RT: 13.379 min Scan# 1896
 Delta R.T. 0.012 min
 Lab File: VY015008.D
 Acq: 09 Aug 2023 16:18

Tgt Ion:119 Resp:10706430
 Ion Ratio Lower Upper
 119 100
 134 28.5 13.3 39.8
 91 30.7 12.4 37.4





#89

n-Butylbenzene

Concen: 295.276 ug/l m

RT: 13.690 min Scan# 1947

Delta R.T. -0.006 min

Lab File: VY015008.D

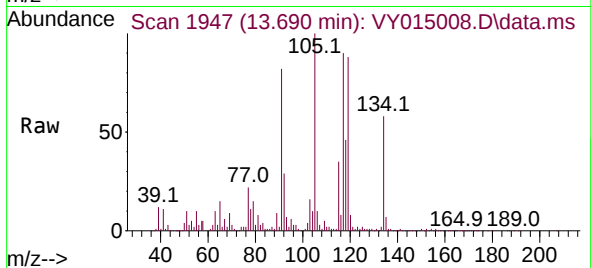
Acq: 09 Aug 2023 16:18

Instrument :

MSVOA_Y

ClientSampleId :

NEVINS-SB01-Z78-80



Tgt Ion: 91 Resp: 1852407

Ion Ratio Lower Upper

91 100

92 0.0 25.4 76.0#

134 0.0 12.6 37.6#

