

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102723\
 Data File : VY016117.D
 Acq On : 27 Oct 2023 20:27
 Operator : SY/MD
 Sample : 05107-09
 Misc : 5.07g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 1079

Quant Time: Oct 30 06:14:39 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y102623S.M
 Quant Title : SW846 8260
 QLast Update : Fri Oct 27 04:12:29 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.795	168	188271	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.697	114	302522	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.496	117	249813	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.428	152	97594	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.149	65	106320	56.792	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 113.580%	
35) Dibromofluoromethane	7.722	113	94461	49.461	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 98.920%	
50) Toluene-d8	10.185	98	405522	57.324	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 114.640%	
62) 4-Bromofluorobenzene	12.483	95	116463	47.993	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 95.980%	

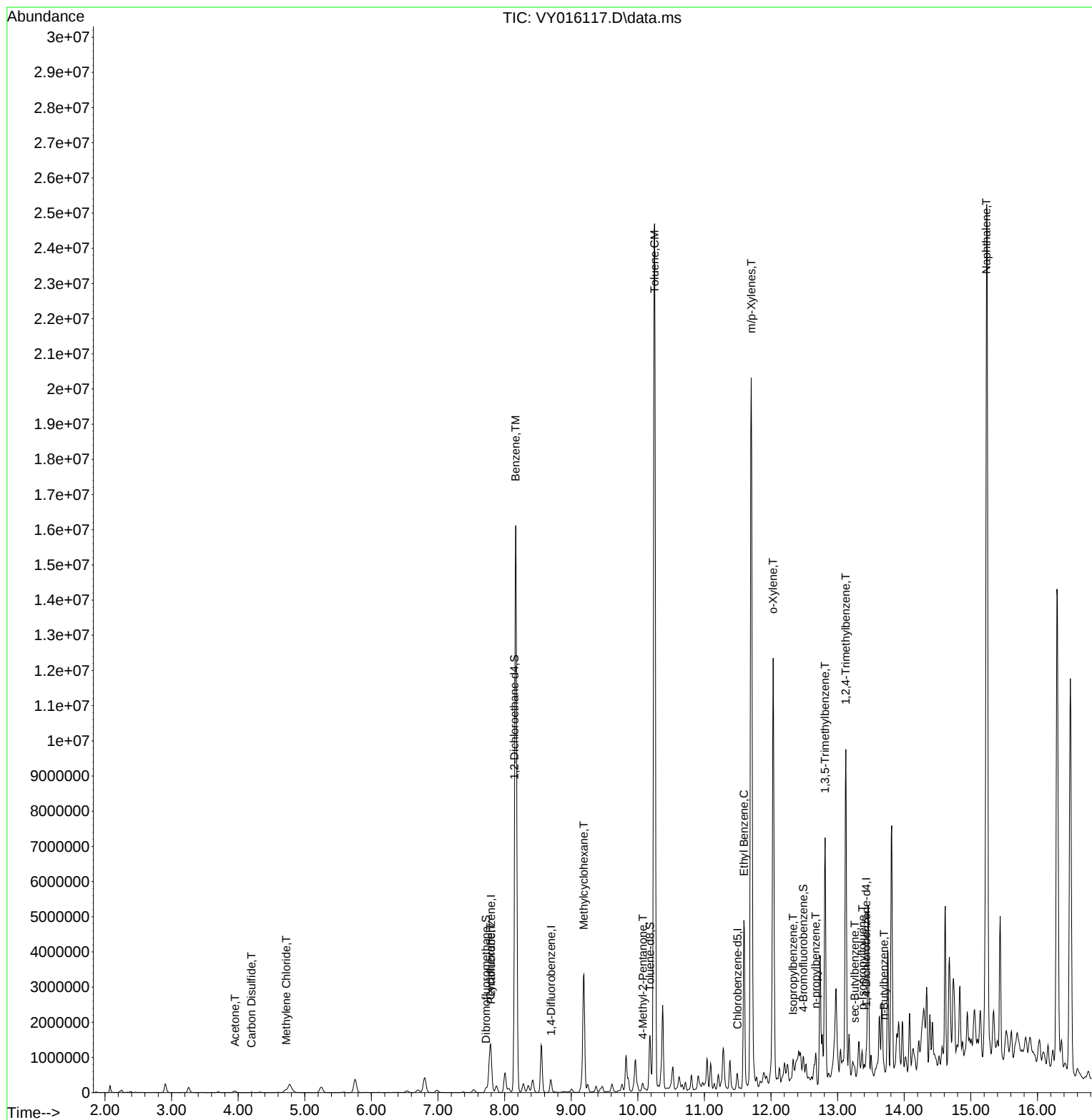
Target Compounds						Qvalue
16) Acetone	3.954	43	49804	98.150	ug/l	92
17) Carbon Disulfide	4.198	76	25409	5.710	ug/l	98
20) Methylene Chloride	4.722	84	24184	7.254	ug/l #	83
31) Cyclohexane	7.789	56	625676	212.439	ug/l	92
39) Methylcyclohexane	9.191	83	1500124	462.554	ug/l	92
40) Benzene	8.167	78	16000375	2122.887	ug/l	91
51) 4-Methyl-2-Pentanone	10.075	43	111766	83.022	ug/l	89
52) Toluene	10.252	92	12467663	2576.022	ug/l #	74
67) Ethyl Benzene	11.593	91	3215888	368.804	ug/l	97
68) m/p-Xylenes	11.703	106	6224098	1844.465	ug/l	86
69) o-Xylene	12.032	106	3113698	963.827	ug/l	93
73) Isopropylbenzene	12.331	105	380241	55.362	ug/l	99
78) n-propylbenzene	12.672	91	658919	79.233	ug/l	99
80) 1,3,5-Trimethylbenzene	12.812	105	2455906	430.677	ug/l	97
84) 1,2,4-Trimethylbenzene	13.123	105	4891466	868.531	ug/l	96
85) sec-Butylbenzene	13.257	105	171003	22.651	ug/l #	54
86) p-Isopropyltoluene	13.373	119	211571	33.585	ug/l	98
89) n-Butylbenzene	13.696	91	106326	18.094	ug/l #	56
95) Naphthalene	15.233	128	18885856	5462.010	ug/l #	88

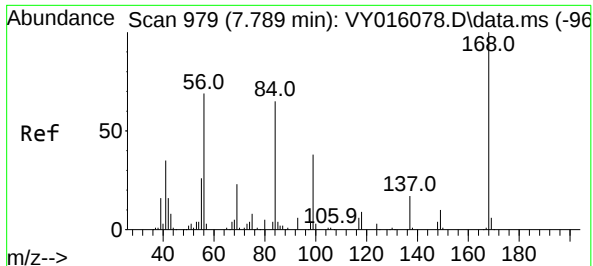
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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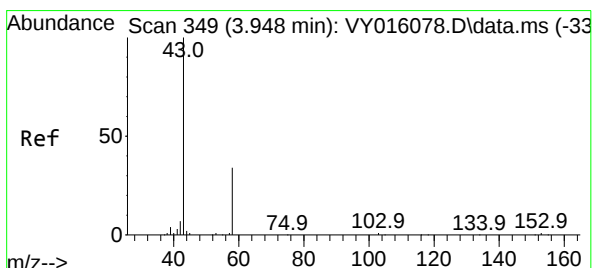
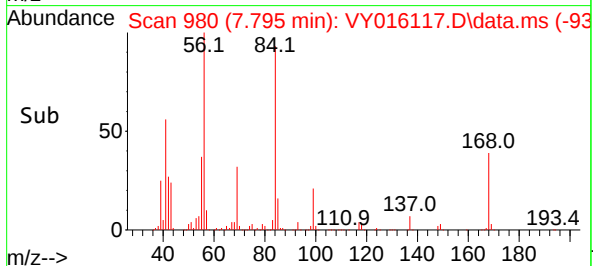
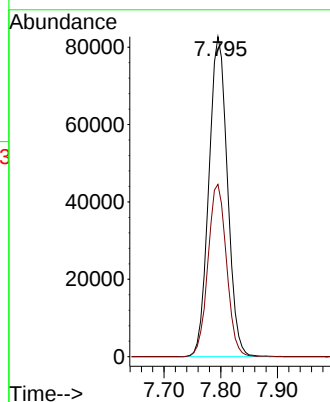
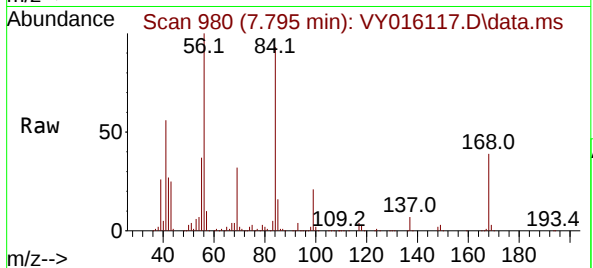




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.795 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY016117.D
Acq: 27 Oct 2023 20:27

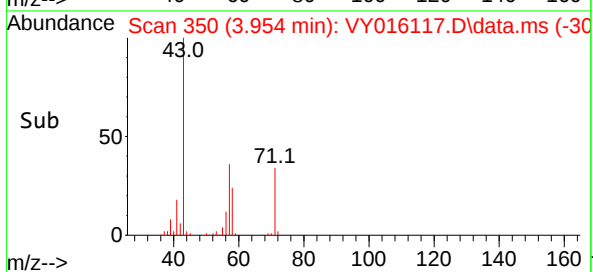
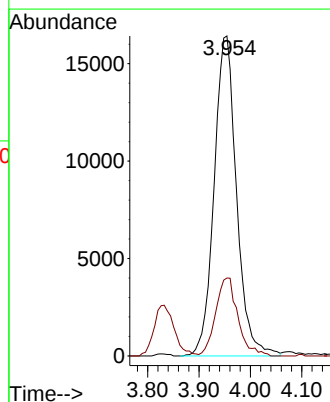
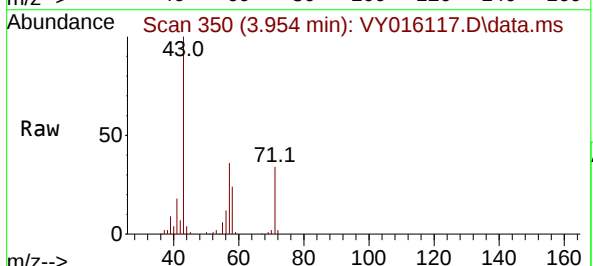
Instrument :
MSVOA_Y
ClientSampleId :
1079

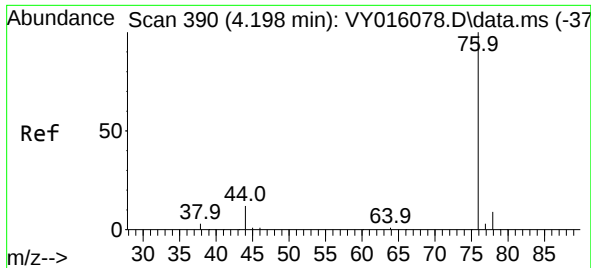
Tgt Ion:168 Resp: 188271
Ion Ratio Lower Upper
168 100
99 53.8 43.4 65.0



#16
Acetone
Concen: 98.150 ug/l
RT: 3.954 min Scan# 350
Delta R.T. 0.006 min
Lab File: VY016117.D
Acq: 27 Oct 2023 20:27

Tgt Ion: 43 Resp: 49804
Ion Ratio Lower Upper
43 100
58 24.4 22.7 34.1





#17

Carbon Disulfide

Concen: 5.710 ug/l

RT: 4.198 min Scan# 390

Delta R.T. -0.000 min

Lab File: VY016117.D

Acq: 27 Oct 2023 20:27

Instrument :

MSVOA_Y

ClientSampleId :

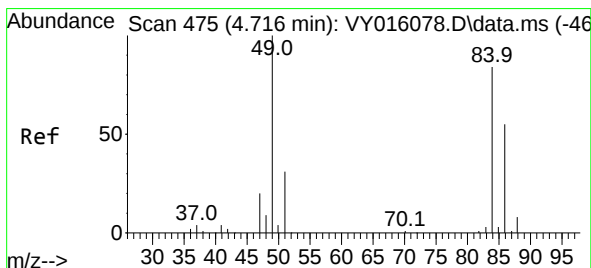
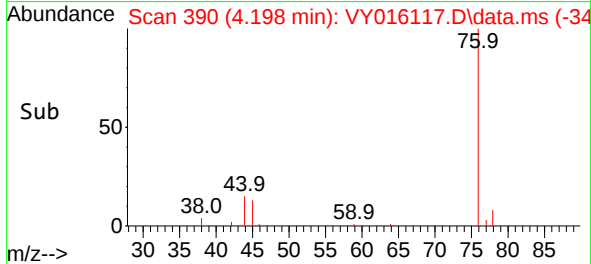
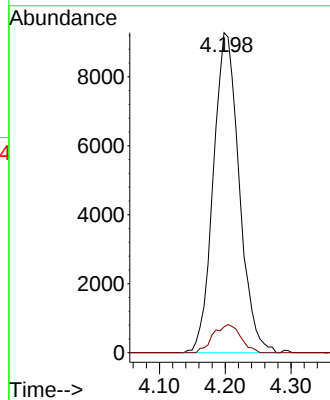
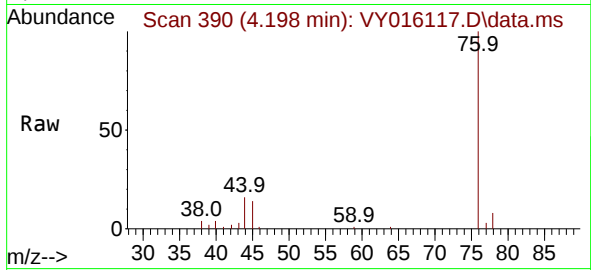
1079

Tgt Ion: 76 Resp: 25409

Ion Ratio Lower Upper

76 100

78 8.1 7.0 10.4



#20

Methylene Chloride

Concen: 7.254 ug/l

RT: 4.722 min Scan# 476

Delta R.T. 0.006 min

Lab File: VY016117.D

Acq: 27 Oct 2023 20:27

Tgt Ion: 84 Resp: 24184

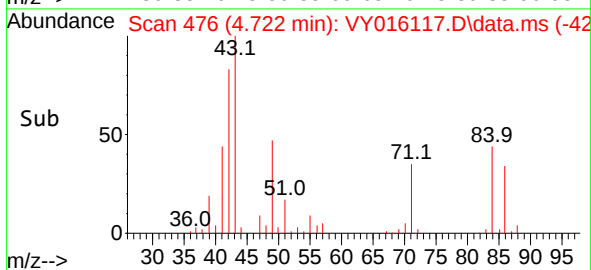
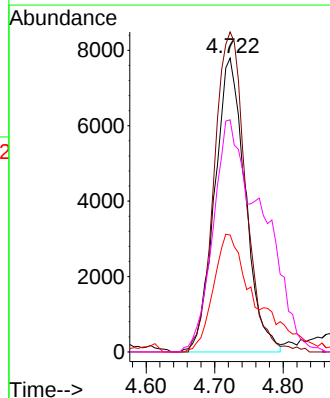
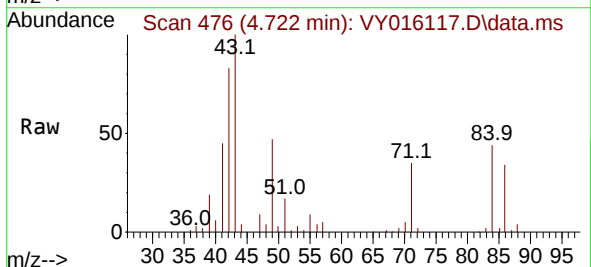
Ion Ratio Lower Upper

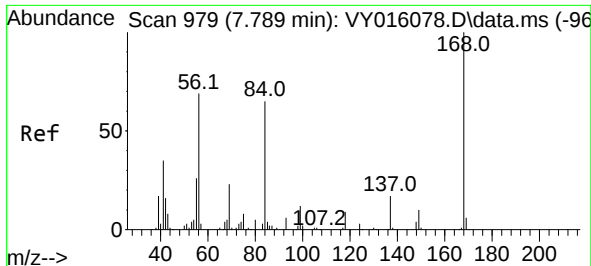
84 100

49 108.9 106.9 160.3

51 39.8 33.2 49.8

86 79.0 51.0 76.6#

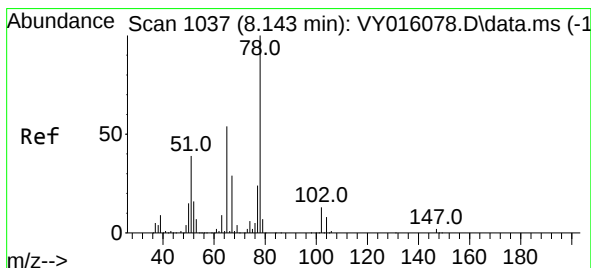
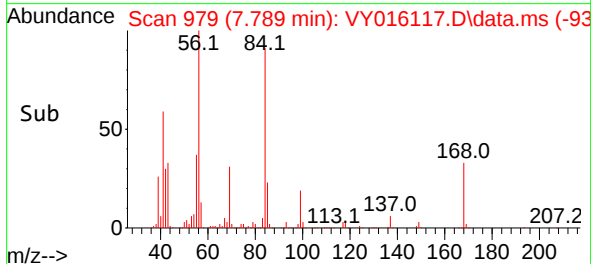
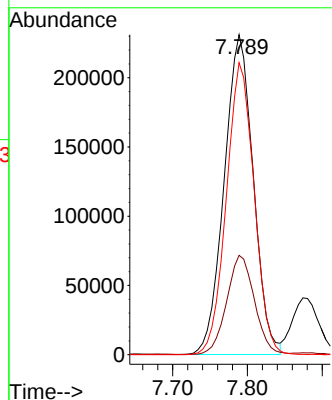
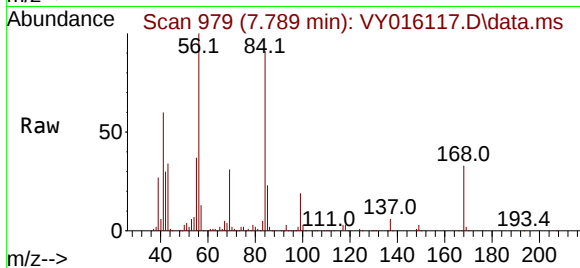




#31
Cyclohexane
Concen: 212.439 ug/l
RT: 7.789 min Scan# 91
Delta R.T. -0.000 min
Lab File: VY016117.D
Acq: 27 Oct 2023 20:27

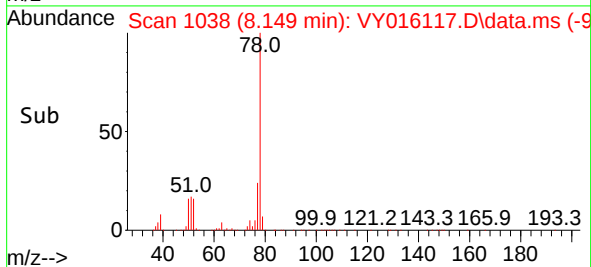
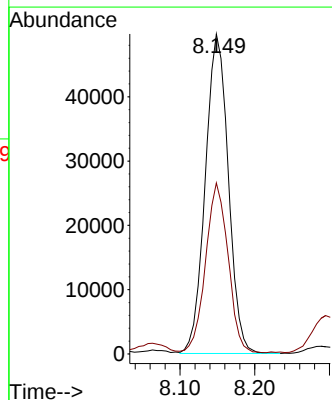
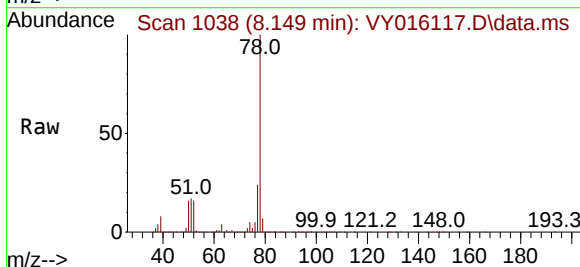
Instrument :
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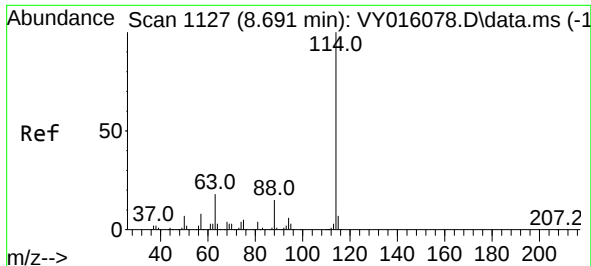
Tgt Ion: 56 Resp: 625676
Ion Ratio Lower Upper
56 100
69 31.0 27.8 41.6
84 91.3 66.4 99.6



#33
1,2-Dichloroethane-d4
Concen: 56.792 ug/l
RT: 8.149 min Scan# 1038
Delta R.T. 0.006 min
Lab File: VY016117.D
Acq: 27 Oct 2023 20:27

Tgt Ion: 65 Resp: 106320
Ion Ratio Lower Upper
65 100
67 51.8 0.0 101.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.697 min Scan# 1127

Delta R.T. 0.006 min

Lab File: VY016117.D

Acq: 27 Oct 2023 20:27

Instrument :

MSVOA_Y

ClientSampleId :

1079

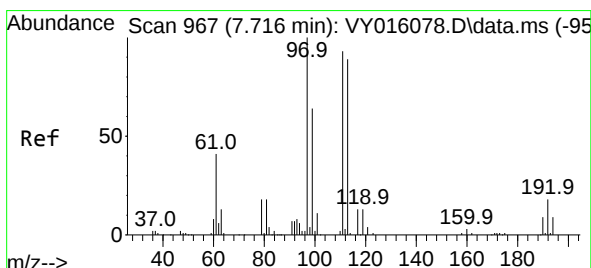
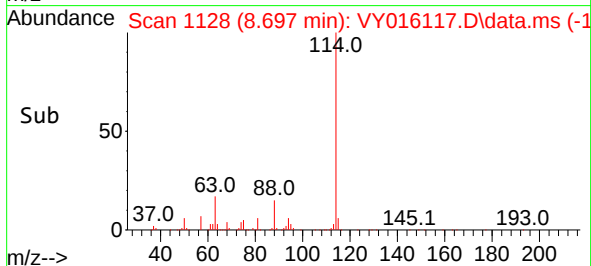
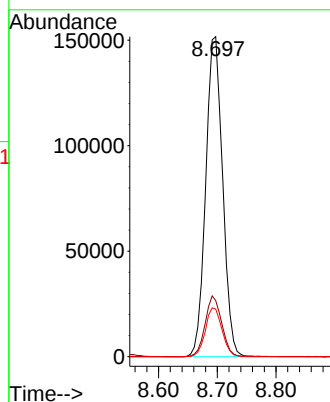
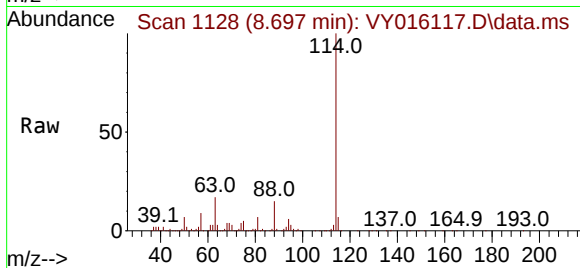
Tgt Ion:114 Resp: 302522

Ion Ratio Lower Upper

114 100

63 17.5 0.0 42.4

88 14.9 0.0 30.6



#35

Dibromofluoromethane

Concen: 49.461 ug/l

RT: 7.722 min Scan# 968

Delta R.T. 0.006 min

Lab File: VY016117.D

Acq: 27 Oct 2023 20:27

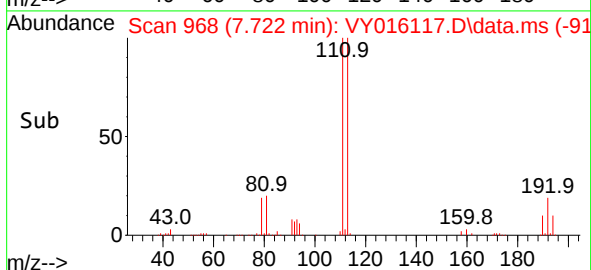
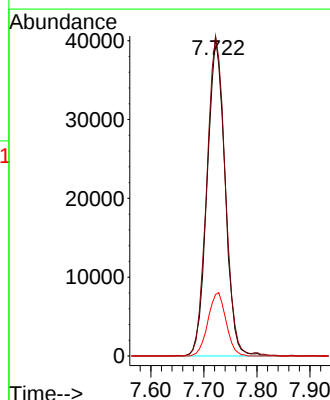
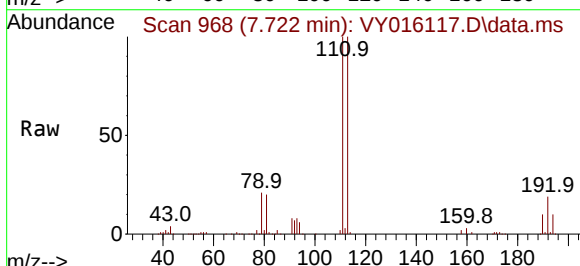
Tgt Ion:113 Resp: 94461

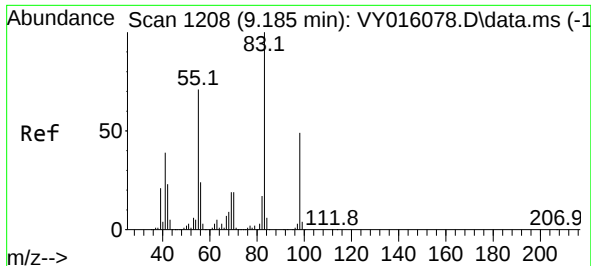
Ion Ratio Lower Upper

113 100

111 103.2 81.3 121.9

192 20.1 16.9 25.3





#39

Methylcyclohexane

Concen: 462.554 ug/l

RT: 9.191 min Scan# 11

Delta R.T. 0.006 min

Lab File: VY016117.D

Acq: 27 Oct 2023 20:27

Instrument :

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ClientSampleId :

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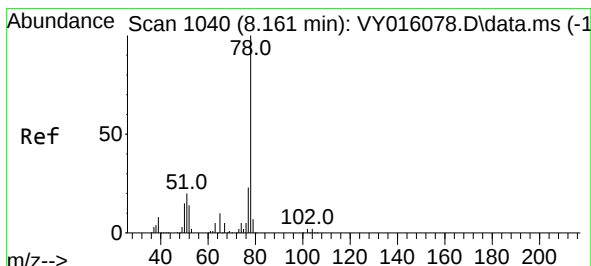
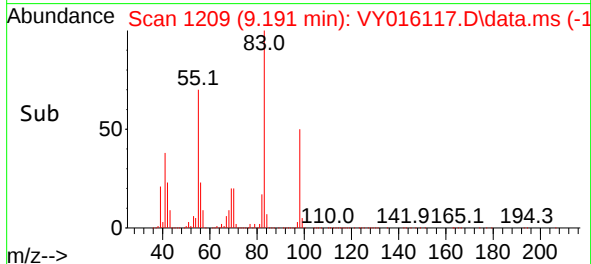
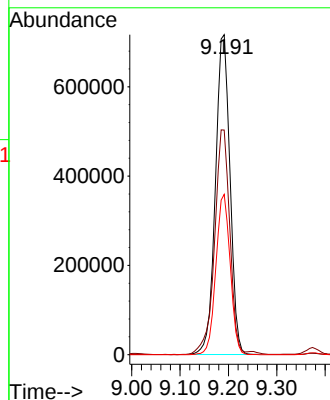
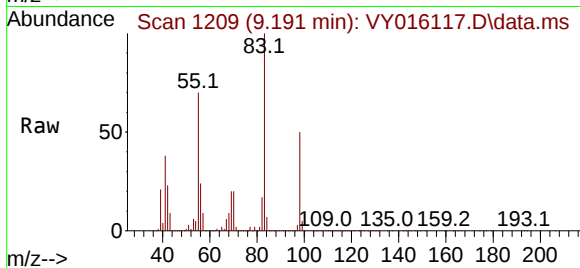
Tgt Ion: 83 Resp: 1500124

Ion Ratio Lower Upper

83 100

55 70.1 63.0 94.4

98 50.1 37.4 56.2



#40

Benzene

Concen: 2122.887 ug/l

RT: 8.167 min Scan# 1041

Delta R.T. 0.006 min

Lab File: VY016117.D

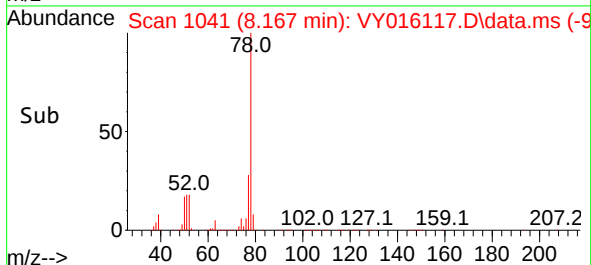
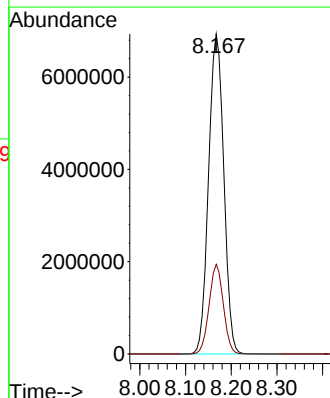
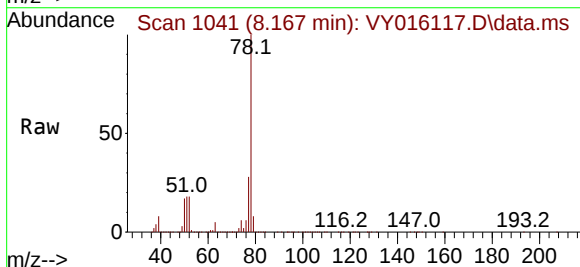
Acq: 27 Oct 2023 20:27

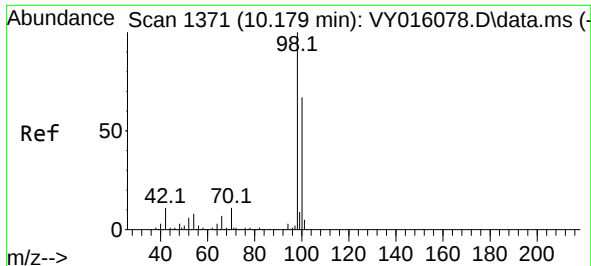
Tgt Ion: 78 Resp:16000375

Ion Ratio Lower Upper

78 100

77 28.0 19.0 28.6

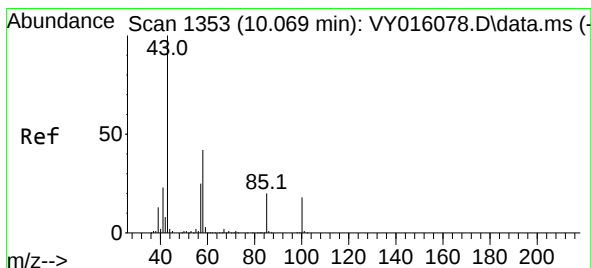
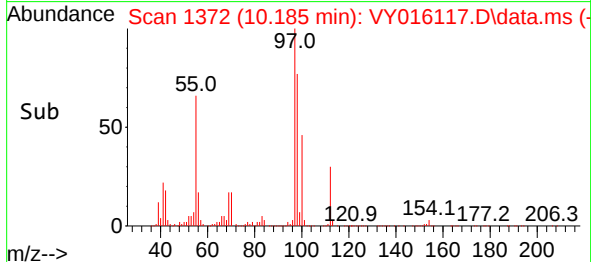
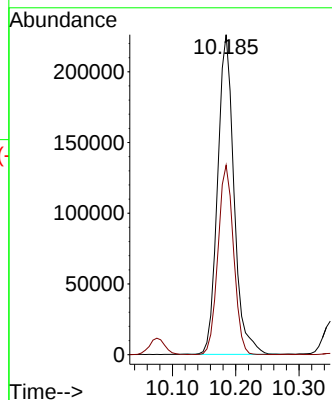
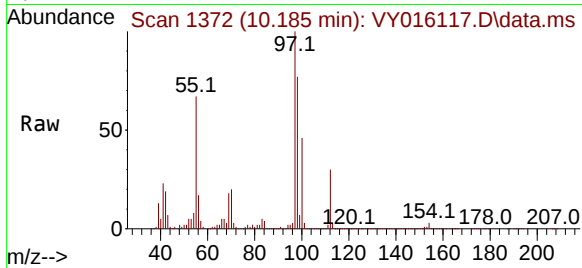




#50
Toluene-d8
Concen: 57.324 ug/l
RT: 10.185 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY016117.D
Acq: 27 Oct 2023 20:27

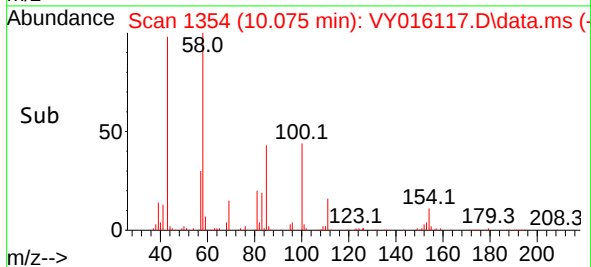
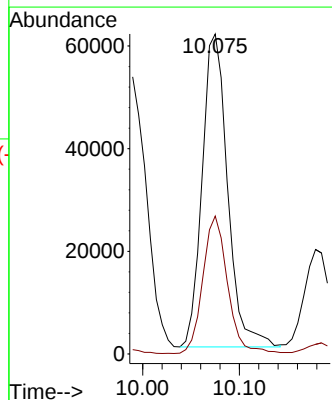
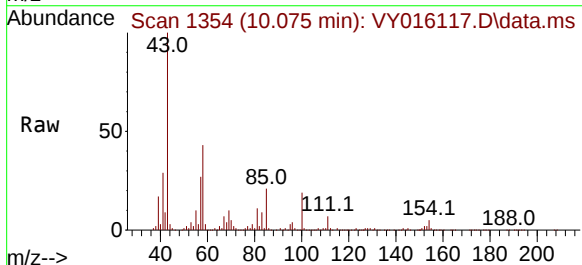
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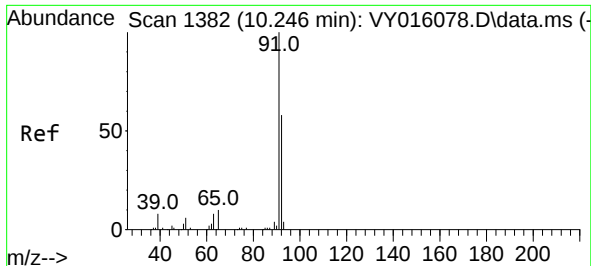
Tgt Ion: 98 Resp: 405522
Ion Ratio Lower Upper
98 100
100 56.3 50.1 75.1



#51
4-Methyl-2-Pentanone
Concen: 83.022 ug/l
RT: 10.075 min Scan# 1354
Delta R.T. 0.006 min
Lab File: VY016117.D
Acq: 27 Oct 2023 20:27

Tgt Ion: 43 Resp: 111766
Ion Ratio Lower Upper
43 100
58 42.5 29.0 43.6

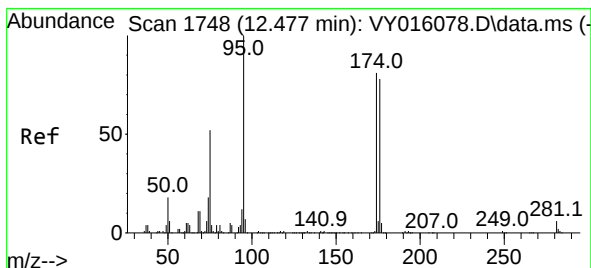
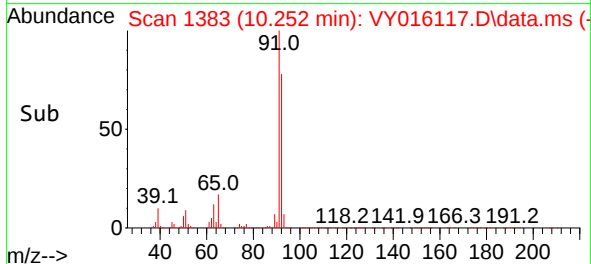
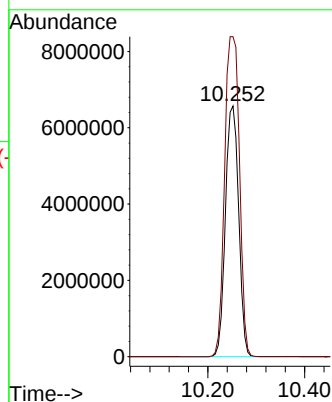
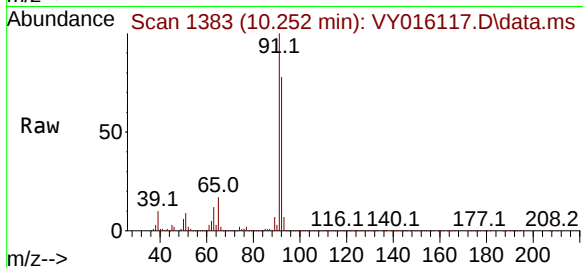




#52
Toluene
Concen: 2576.022 ug/l
RT: 10.252 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY016117.D
Acq: 27 Oct 2023 20:27

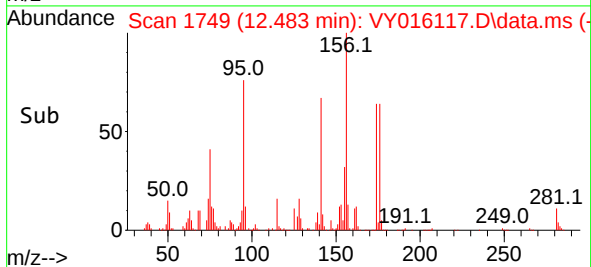
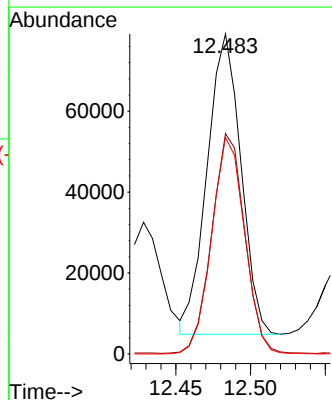
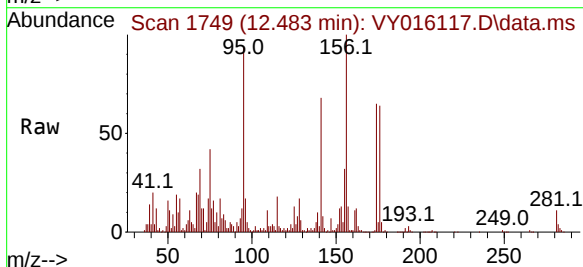
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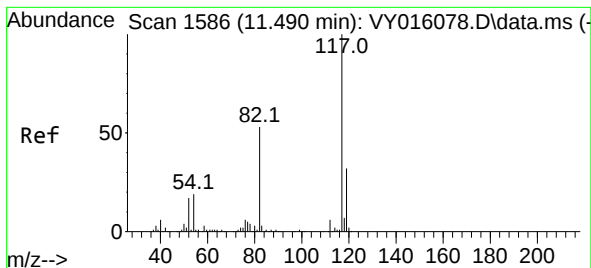
Tgt Ion: 92 Resp:12467663
Ion Ratio Lower Upper
92 100
91 143.2 143.8 215.6#



#62
4-Bromofluorobenzene
Concen: 47.993 ug/l
RT: 12.483 min Scan# 1749
Delta R.T. 0.006 min
Lab File: VY016117.D
Acq: 27 Oct 2023 20:27

Tgt Ion: 95 Resp: 116463
Ion Ratio Lower Upper
95 100
174 71.6 0.0 178.2
176 70.5 0.0 173.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.496 min Scan# 11

Delta R.T. 0.006 min

Lab File: VY016117.D

Acq: 27 Oct 2023 20:27

Instrument :

MSVOA_Y

ClientSampleId :

1079

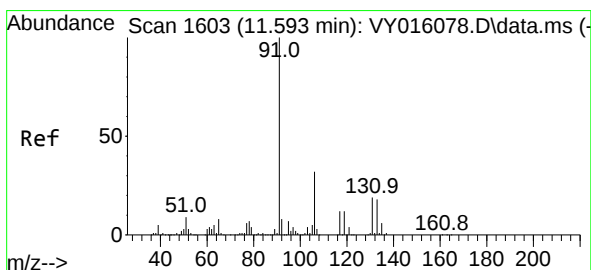
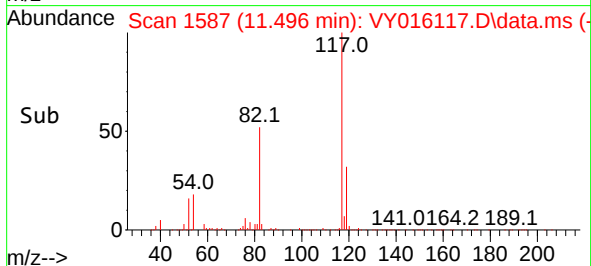
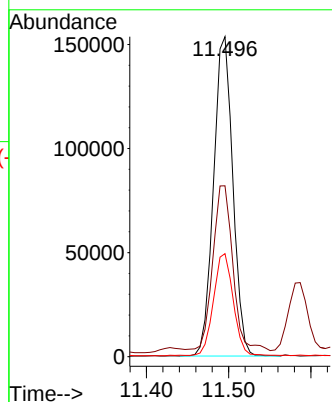
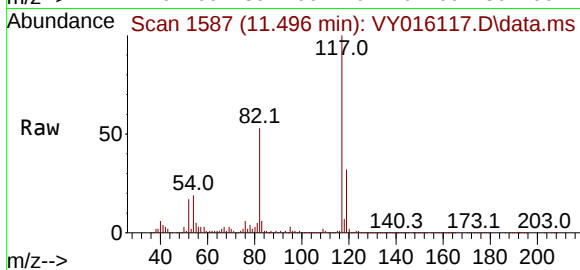
Tgt Ion:117 Resp: 249813

Ion Ratio Lower Upper

117 100

82 51.0 43.4 65.0

119 31.9 26.3 39.5



#67

Ethyl Benzene

Concen: 368.804 ug/l

RT: 11.593 min Scan# 1603

Delta R.T. -0.000 min

Lab File: VY016117.D

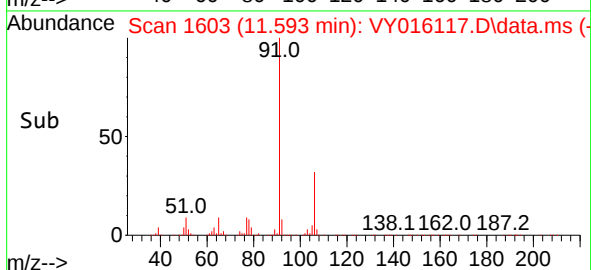
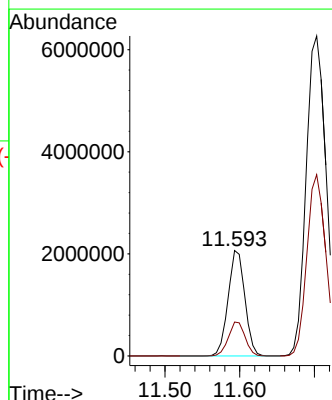
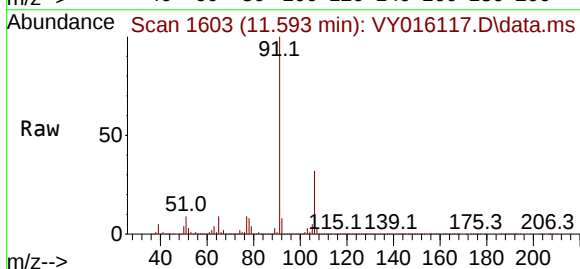
Acq: 27 Oct 2023 20:27

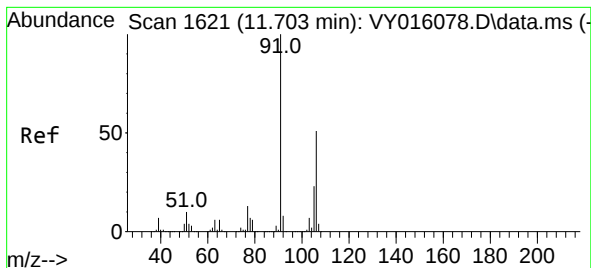
Tgt Ion: 91 Resp: 3215888

Ion Ratio Lower Upper

91 100

106 32.2 24.6 36.8

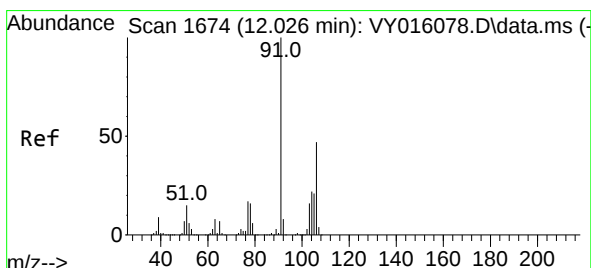
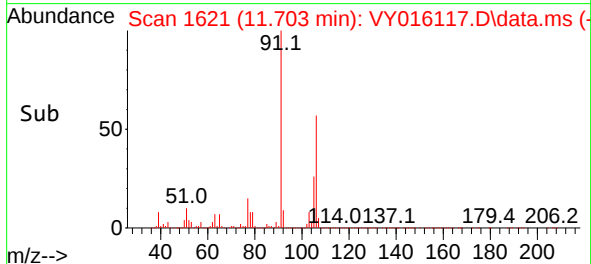
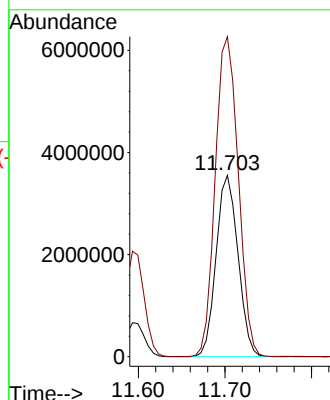
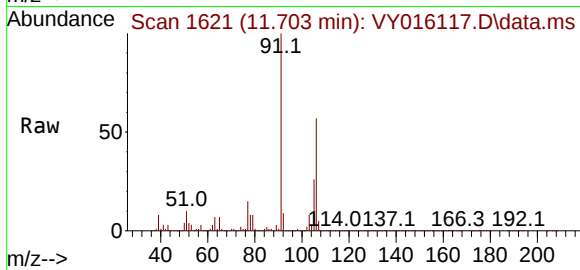




#68
m/p-Xylenes
Concen: 1844.465 ug/l
RT: 11.703 min Scan# 11079
Delta R.T. -0.000 min
Lab File: VY016117.D
Acq: 27 Oct 2023 20:27

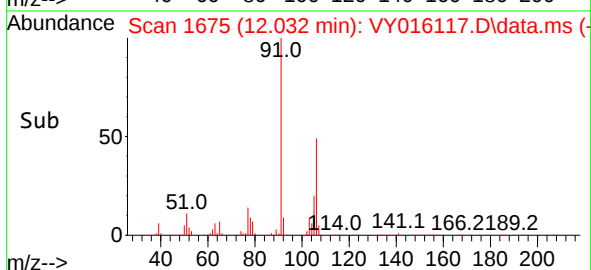
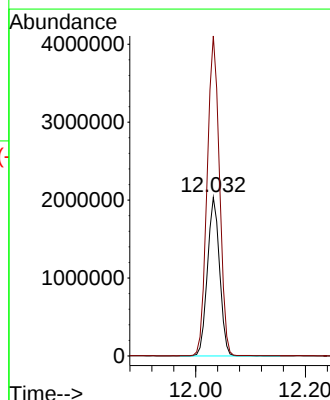
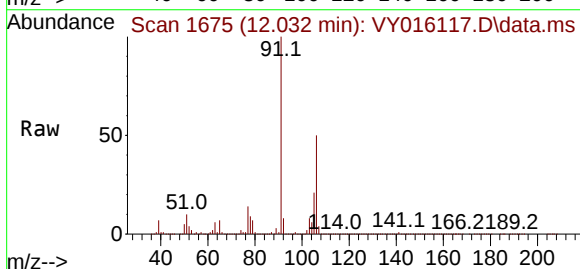
Instrument :
MSVOA_Y
ClientSampleId :
1079

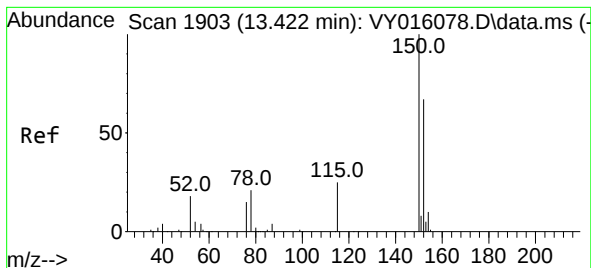
Tgt Ion:106 Resp: 6224098
Ion Ratio Lower Upper
106 100
91 185.8 166.1 249.1



#69
o-Xylene
Concen: 963.827 ug/l
RT: 12.032 min Scan# 1675
Delta R.T. 0.006 min
Lab File: VY016117.D
Acq: 27 Oct 2023 20:27

Tgt Ion:106 Resp: 3113698
Ion Ratio Lower Upper
106 100
91 205.2 108.1 324.3





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.428 min Scan# 1903

Delta R.T. 0.006 min

Lab File: VY016117.D

Acq: 27 Oct 2023 20:27

Instrument :

MSVOA_Y

ClientSampleId :

1079

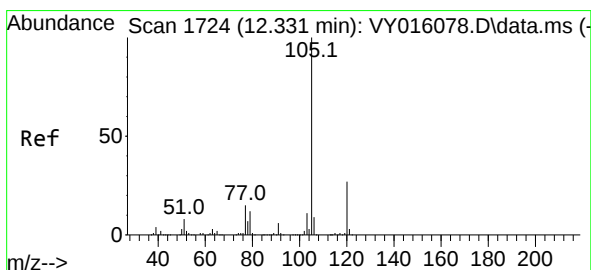
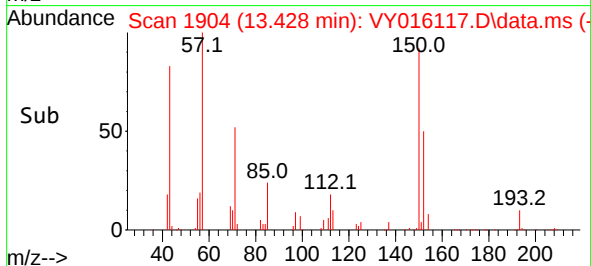
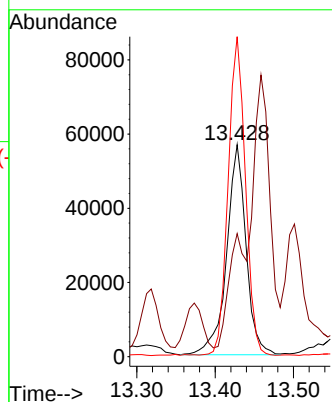
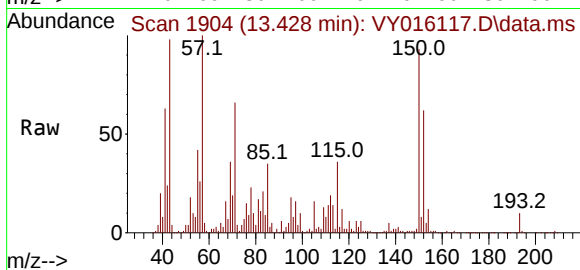
Tgt Ion:152 Resp: 97594

Ion Ratio Lower Upper

152 100

115 47.7 28.8 86.5

150 134.7 0.0 348.8



#73

Isopropylbenzene

Concen: 55.362 ug/l

RT: 12.331 min Scan# 1724

Delta R.T. -0.000 min

Lab File: VY016117.D

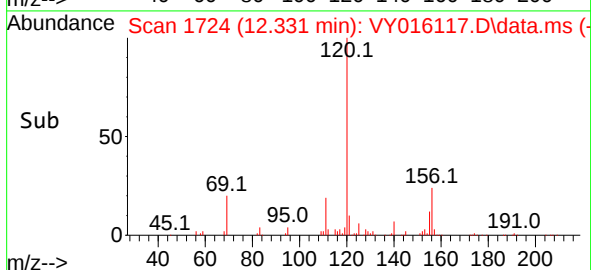
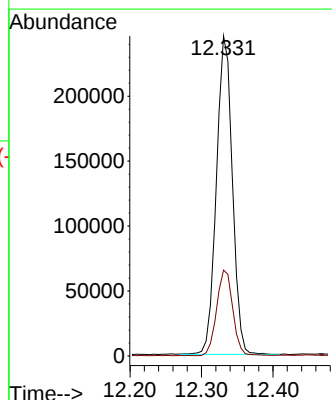
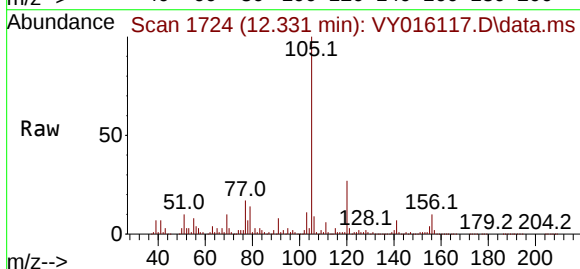
Acq: 27 Oct 2023 20:27

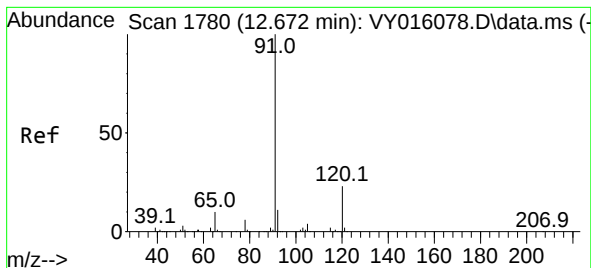
Tgt Ion:105 Resp: 380241

Ion Ratio Lower Upper

105 100

120 27.2 13.3 39.9





#78

n-propylbenzene

Concen: 79.233 ug/l

RT: 12.672 min Scan# 1

Delta R.T. -0.000 min

Lab File: VY016117.D

Acq: 27 Oct 2023 20:27

Instrument :

MSVOA_Y

ClientSampleId :

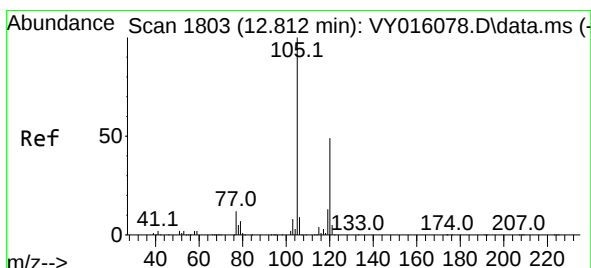
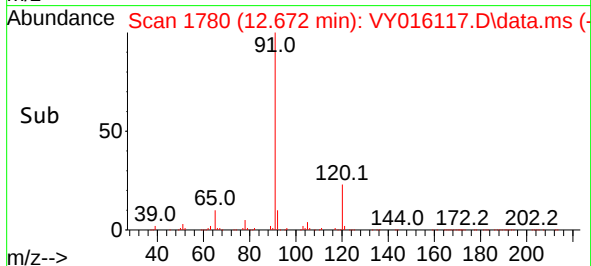
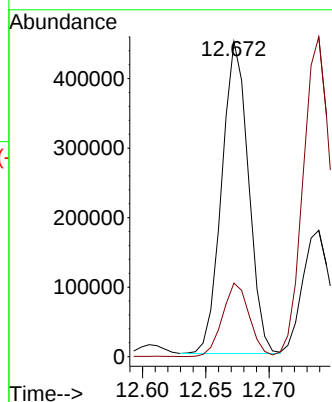
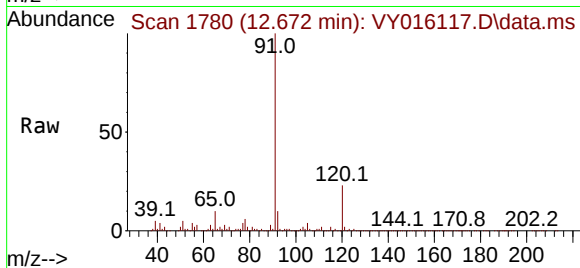
1079

Tgt Ion: 91 Resp: 658919

Ion Ratio Lower Upper

91 100

120 23.5 11.5 34.4



#80

1,3,5-Trimethylbenzene

Concen: 430.677 ug/l

RT: 12.812 min Scan# 1803

Delta R.T. -0.000 min

Lab File: VY016117.D

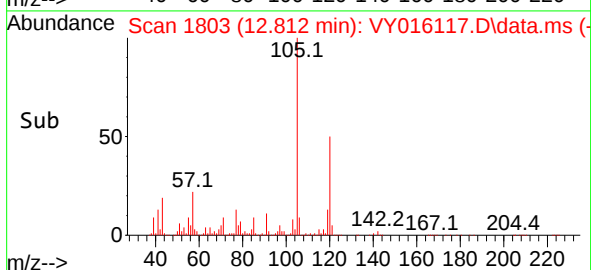
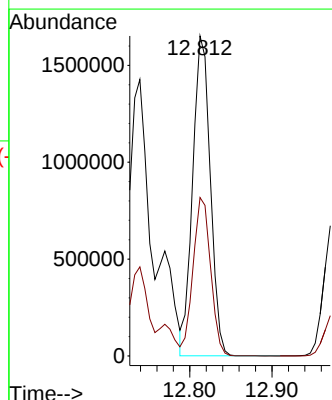
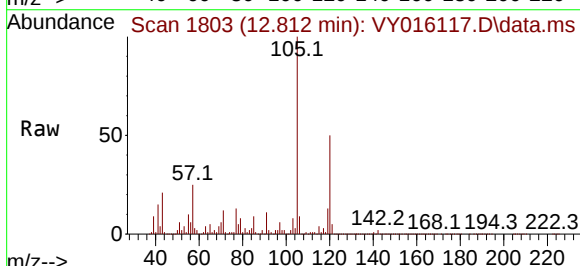
Acq: 27 Oct 2023 20:27

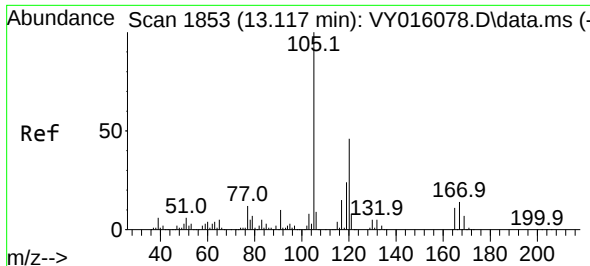
Tgt Ion:105 Resp: 2455906

Ion Ratio Lower Upper

105 100

120 49.5 23.9 71.7

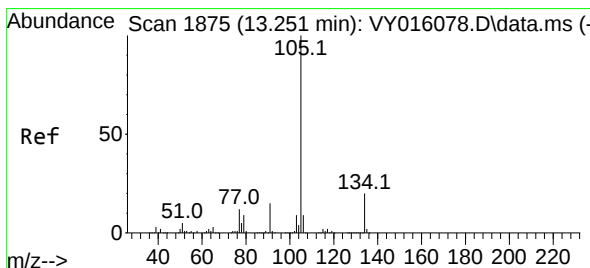
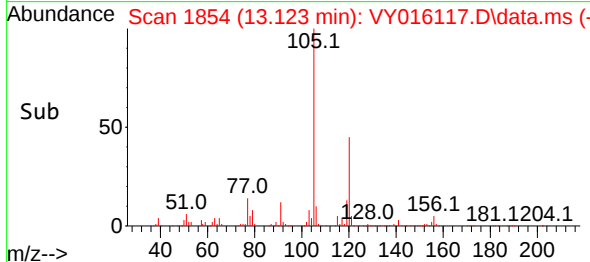
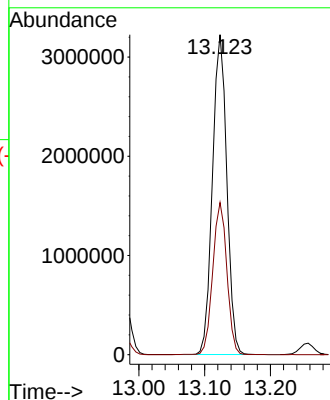
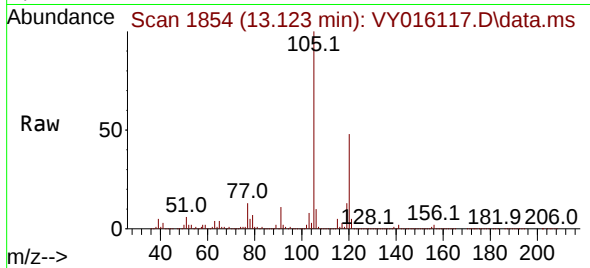




#84
1,2,4-Trimethylbenzene
Concen: 868.531 ug/l
RT: 13.123 min Scan# 1854
Delta R.T. 0.006 min
Lab File: VY016117.D
Acq: 27 Oct 2023 20:27

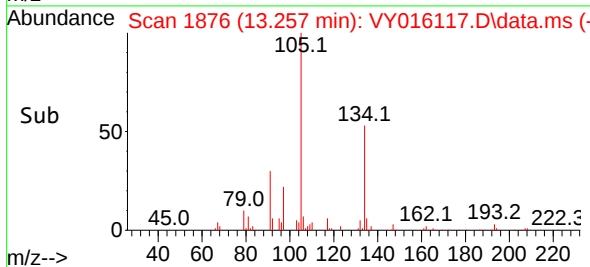
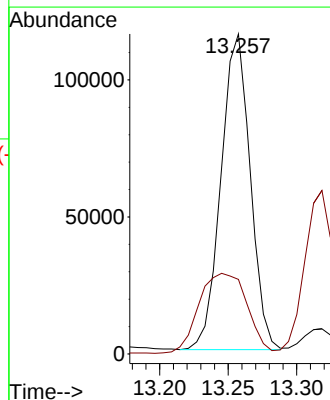
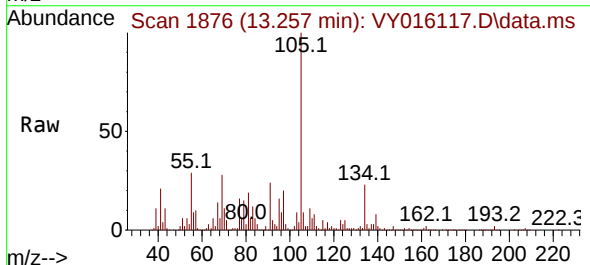
Instrument :
MSVOA_Y
ClientSampleId :
1079

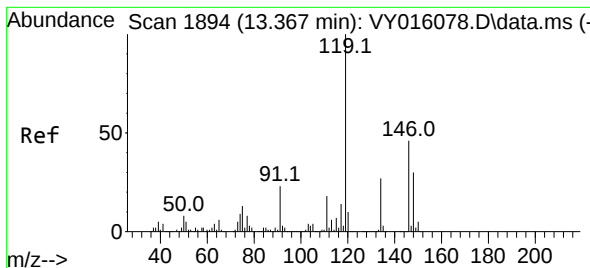
Tgt Ion:105 Resp: 4891466
Ion Ratio Lower Upper
105 100
120 46.8 22.2 66.6



#85
sec-Butylbenzene
Concen: 22.651 ug/l
RT: 13.257 min Scan# 1876
Delta R.T. 0.006 min
Lab File: VY016117.D
Acq: 27 Oct 2023 20:27

Tgt Ion:105 Resp: 171003
Ion Ratio Lower Upper
105 100
134 41.5 10.2 30.6#





#86

p-Isopropyltoluene

Concen: 33.585 ug/l

RT: 13.373 min Scan# 119

Delta R.T. 0.006 min

Lab File: VY016117.D

Acq: 27 Oct 2023 20:27

Instrument :

MSVOA_Y

ClientSampleId :

1079

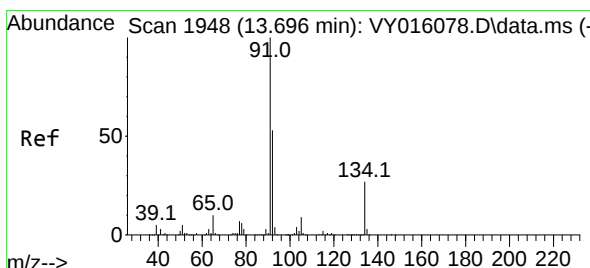
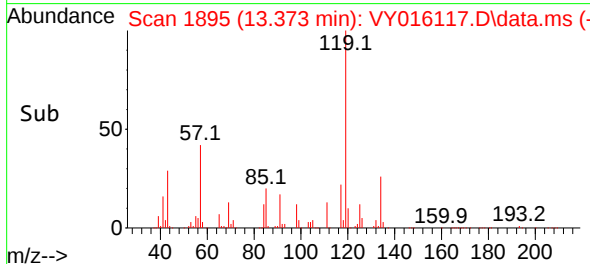
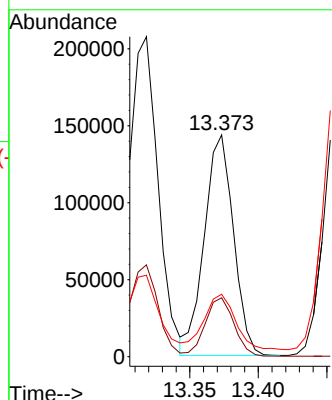
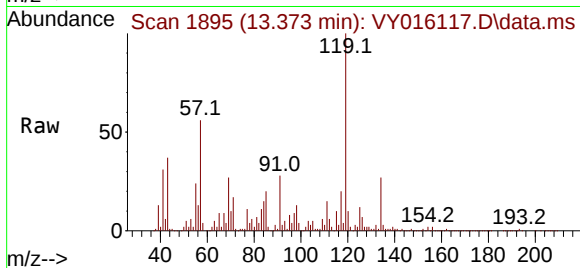
Tgt Ion:119 Resp: 211571

Ion Ratio Lower Upper

119 100

134 26.3 13.3 39.8

91 26.9 12.4 37.4



#89

n-Butylbenzene

Concen: 18.094 ug/l

RT: 13.696 min Scan# 1948

Delta R.T. -0.000 min

Lab File: VY016117.D

Acq: 27 Oct 2023 20:27

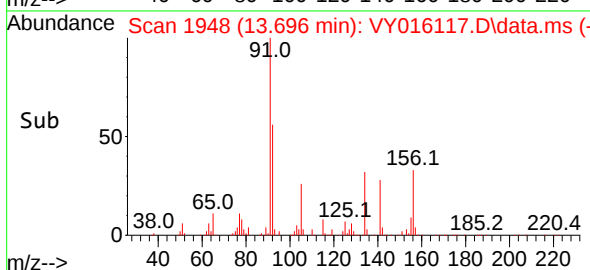
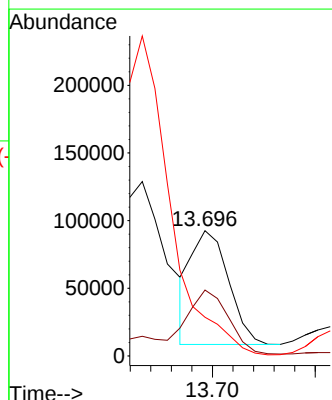
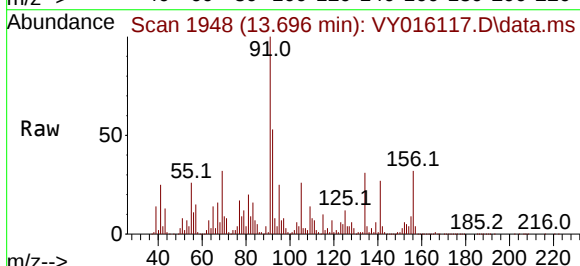
Tgt Ion: 91 Resp: 106326

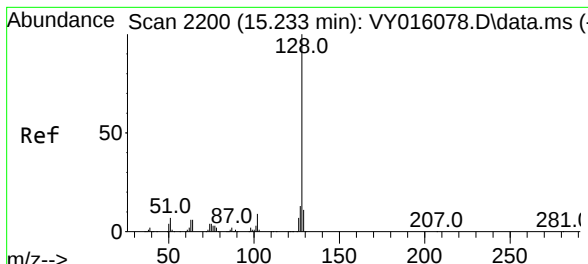
Ion Ratio Lower Upper

91 100

92 79.5 25.4 76.0#

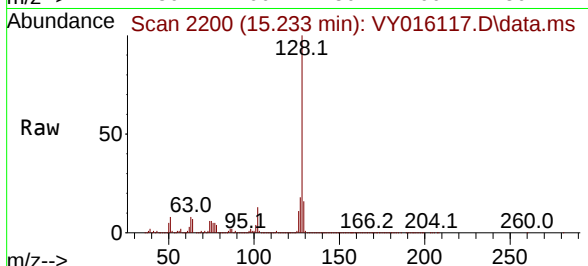
134 0.0 12.6 37.6#





#95
 Naphthalene
 Concen: 5462.010 ug/l
 RT: 15.233 min Scan# 21
 Delta R.T. -0.000 min
 Lab File: VY016117.D
 Acq: 27 Oct 2023 20:27

Instrument :
 MSVOA_Y
 ClientSampleId :
 1079



Tgt Ion:128 Resp:18885856
 Ion Ratio Lower Upper
 128 100
 127 18.0 10.8 16.2#
 129 15.8 8.6 13.0#

