

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN052323\
 Data File : VN077818.D
 Acq On : 23 May 2023 15:54
 Operator : JC\MD
 Sample : 02884-06
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 2005

Quant Time: May 24 02:55:09 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051523W.M
 Quant Title : SW846 8260
 QLast Update : Tue May 16 04:07:42 2023
 Response via : Initial Calibration

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

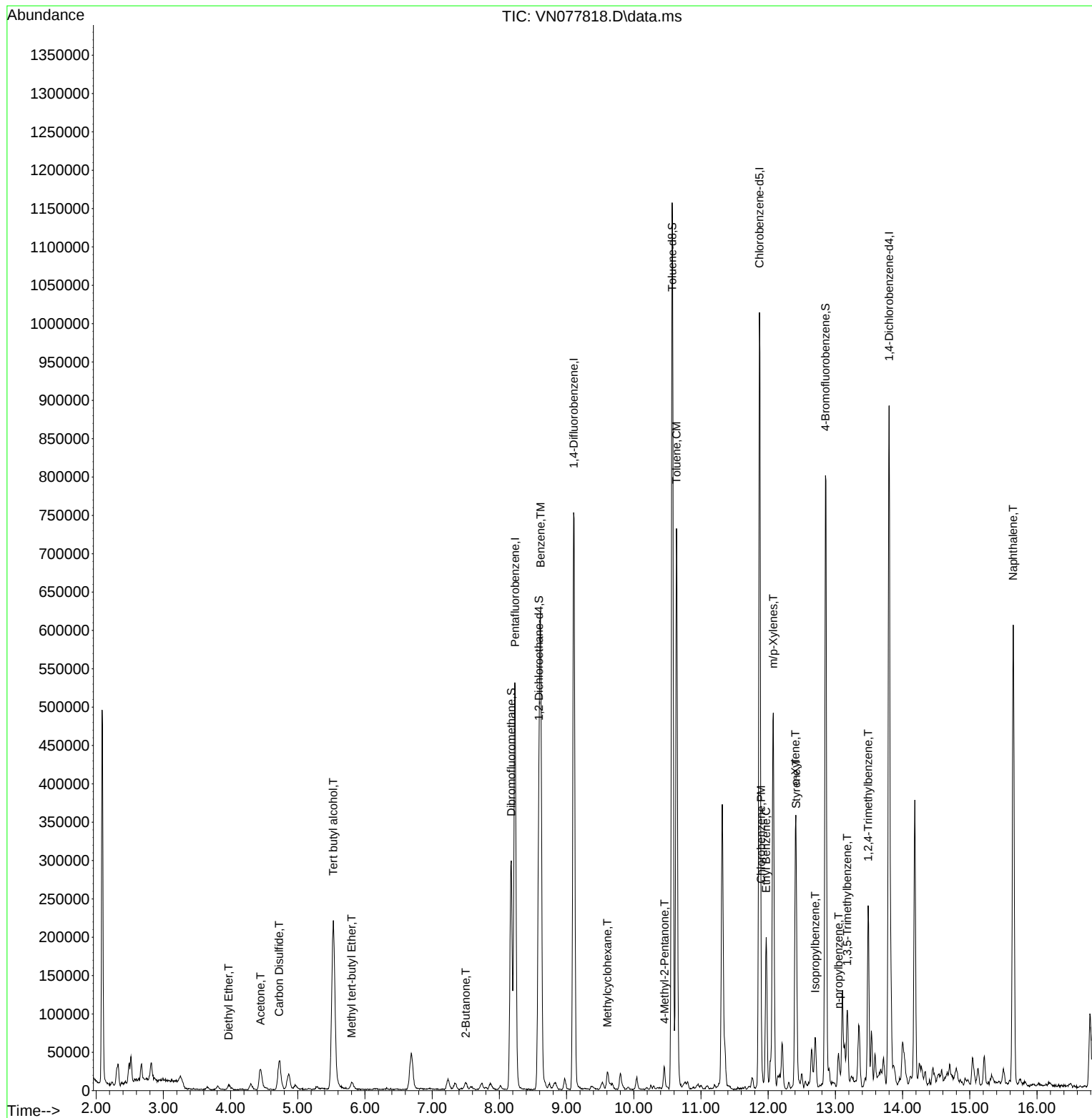
Internal Standards						
1) Pentafluorobenzene	8.235	168	378039	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	688922	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.870	117	610127	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	237940	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	254294	44.957	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	89.920%		
35) Dibromofluoromethane	8.177	113	218352	48.605	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	97.200%		
50) Toluene-d8	10.570	98	840478	48.606	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	97.220%		
62) 4-Bromofluorobenzene	12.853	95	291925	47.802	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	95.600%		
Target Compounds						
					Qvalue	
8) Diethyl Ether	3.971	74	3866	1.401	ug/l	68
11) Tert butyl alcohol	5.530	59	401074	513.775	ug/l	99
16) Acetone	4.447	43	52888	29.719	ug/l	92
17) Carbon Disulfide	4.724	76	48335	4.512	ug/l #	94
19) Methyl tert-butyl Ether	5.800	73	13505	0.938	ug/l	92
25) 2-Butanone	7.500	43	13971	5.019	ug/l	88
39) Methylcyclohexane	9.606	83	3205	0.398	ug/l #	74
40) Benzene	8.612	78	566919	29.237	ug/l	97
51) 4-Methyl-2-Pentanone	10.459	43	18843	3.314	ug/l	90
52) Toluene	10.635	92	321019	26.593	ug/l	97
65) Chlorobenzene	11.894	112	6827	0.516	ug/l	100
67) Ethyl Benzene	11.970	91	141173	5.956	ug/l	99
68) m/p-Xylenes	12.076	106	160571	17.878	ug/l	97
69) o-Xylene	12.406	106	69321	7.848	ug/l	97
70) Styrene	12.417	104	97759	6.967	ug/l	99
73) Isopropylbenzene	12.700	105	14678	0.716	ug/l	95
78) n-propylbenzene	13.047	91	26218	1.084	ug/l	100
80) 1,3,5-Trimethylbenzene	13.176	105	49948	2.897	ug/l	99
84) 1,2,4-Trimethylbenzene	13.488	105	134908	7.957	ug/l	99
95) Naphthalene	15.647	128	556240	34.197	ug/l	99

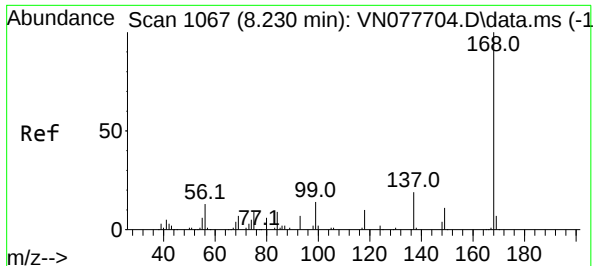
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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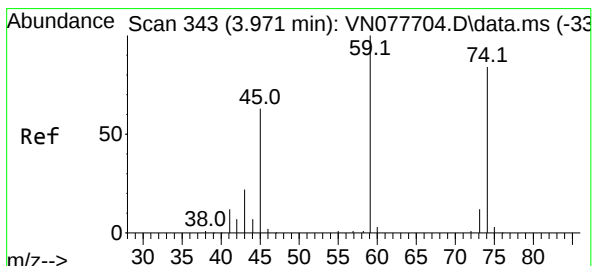
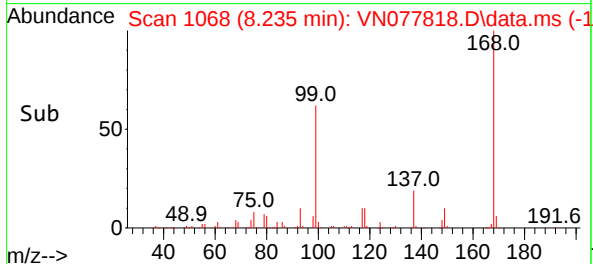
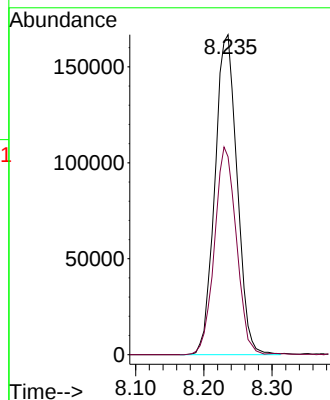
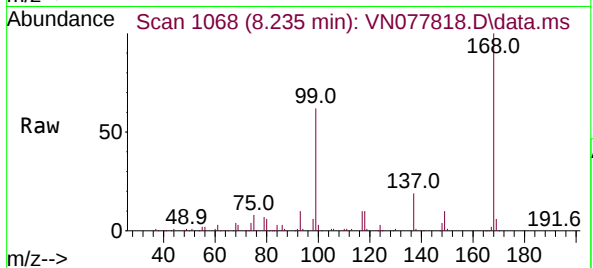




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.235 min Scan# 1067
Delta R.T. 0.005 min
Lab File: VN077818.D
Acq: 23 May 2023 15:54

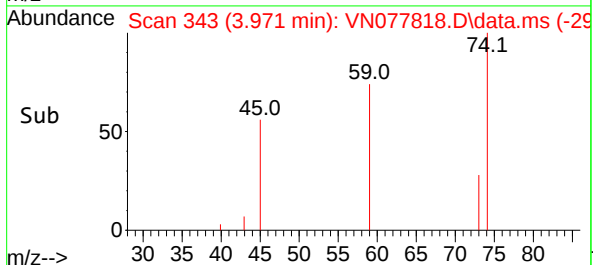
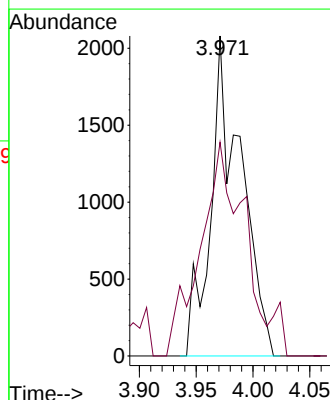
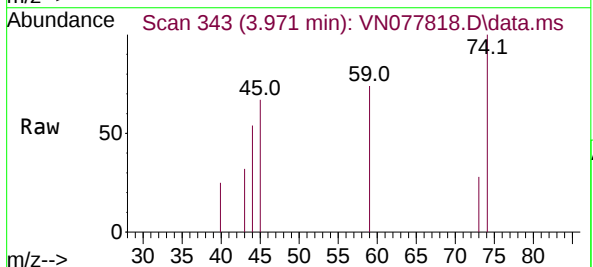
Instrument :
MSVOA_N
ClientSampleId :
2005

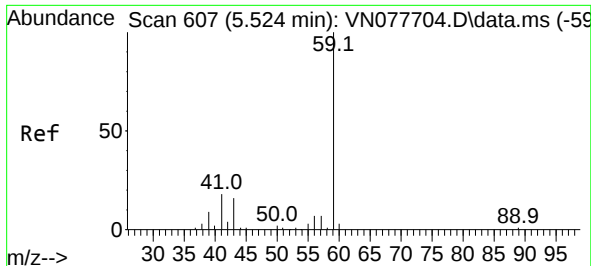
Tgt Ion:168 Resp: 378039
Ion Ratio Lower Upper
168 100
99 61.8 53.0 79.6



#8
Diethyl Ether
Concen: 1.401 ug/l
RT: 3.971 min Scan# 343
Delta R.T. 0.006 min
Lab File: VN077818.D
Acq: 23 May 2023 15:54

Tgt Ion: 74 Resp: 3866
Ion Ratio Lower Upper
74 100
45 94.9 34.4 103.3

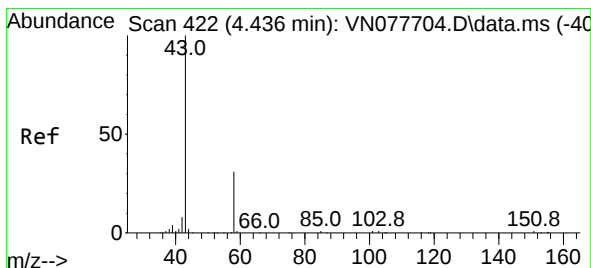
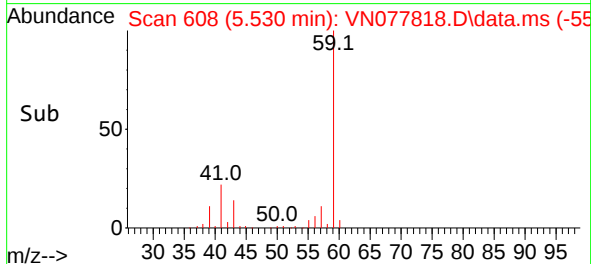
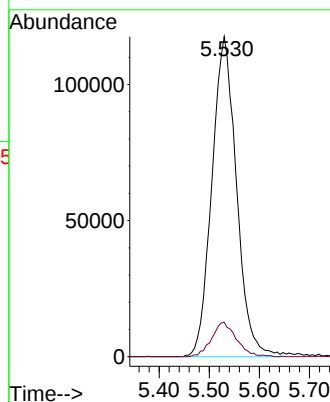
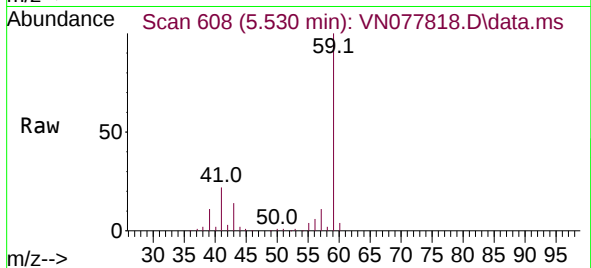




#11
Tert butyl alcohol
Concen: 513.775 ug/l
RT: 5.530 min Scan# 607
Delta R.T. -0.000 min
Lab File: VN077818.D
Acq: 23 May 2023 15:54

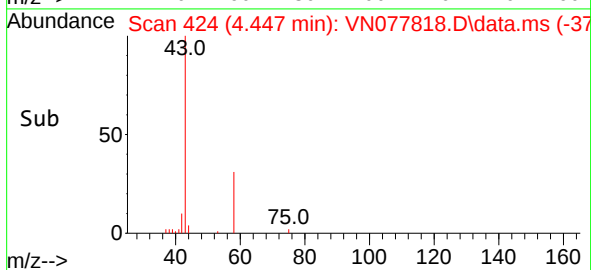
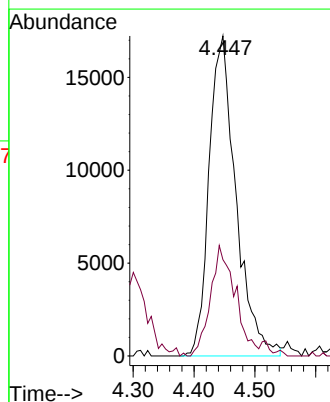
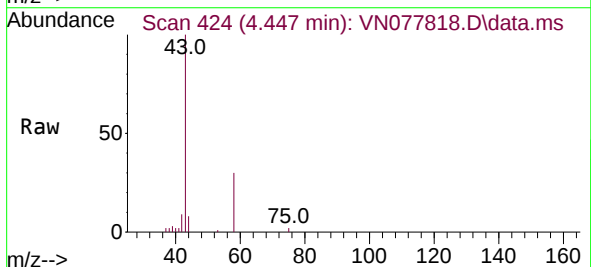
Instrument :
MSVOA_N
ClientSampleId :
2005

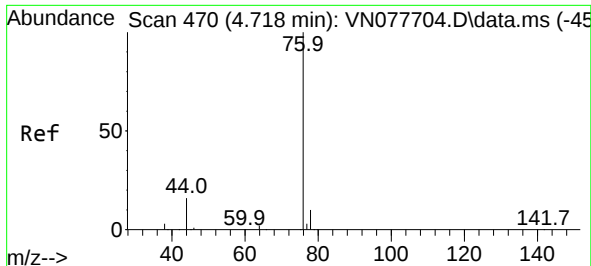
Tgt Ion: 59 Resp: 401074
Ion Ratio Lower Upper
59 100
57 10.8 8.2 12.4



#16
Acetone
Concen: 29.719 ug/l
RT: 4.447 min Scan# 424
Delta R.T. 0.017 min
Lab File: VN077818.D
Acq: 23 May 2023 15:54

Tgt Ion: 43 Resp: 52888
Ion Ratio Lower Upper
43 100
58 30.1 28.0 42.0

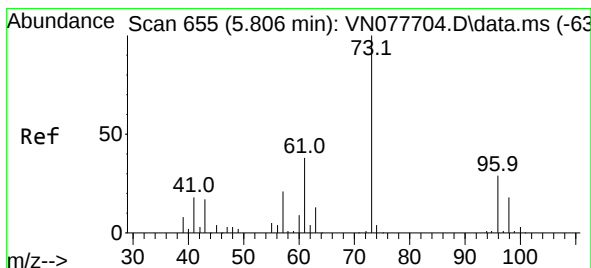
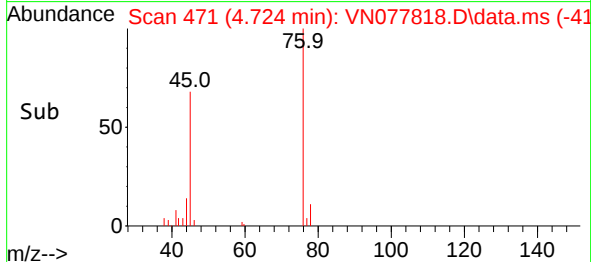
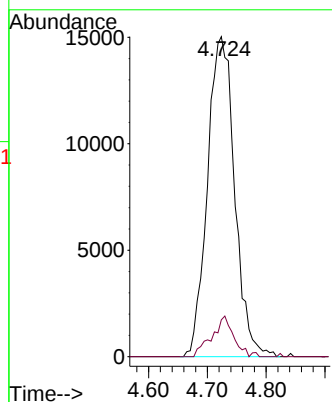
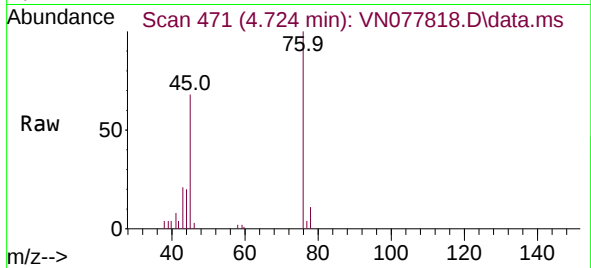




#17
Carbon Disulfide
Concen: 4.512 ug/l
RT: 4.724 min Scan# 41
Delta R.T. 0.012 min
Lab File: VN077818.D
Acq: 23 May 2023 15:54

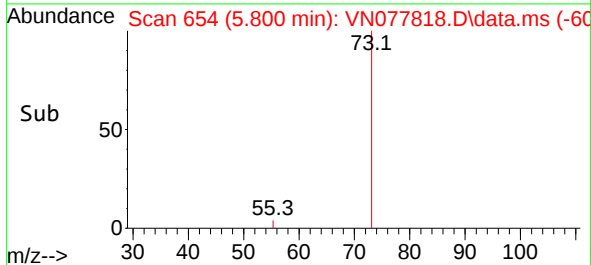
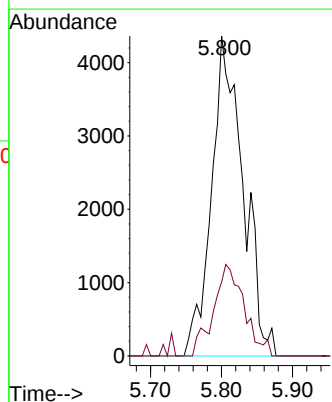
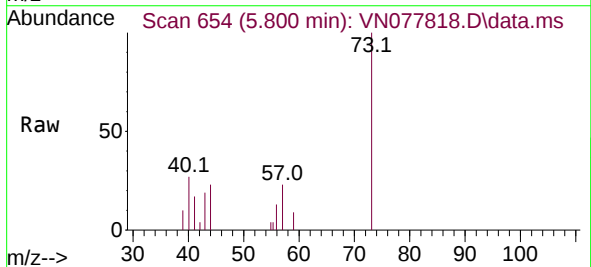
Instrument :
MSVOA_N
ClientSampleId :
2005

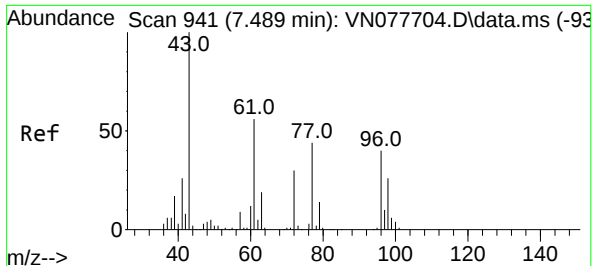
Tgt Ion: 76 Resp: 48335
Ion Ratio Lower Upper
76 100
78 11.5 7.4 11.0#



#19
Methyl tert-butyl Ether
Concen: 0.938 ug/l
RT: 5.800 min Scan# 654
Delta R.T. 0.000 min
Lab File: VN077818.D
Acq: 23 May 2023 15:54

Tgt Ion: 73 Resp: 13505
Ion Ratio Lower Upper
73 100
57 23.1 15.6 23.4





#25

2-Butanone

Concen: 5.019 ug/l

RT: 7.500 min Scan# 941

Delta R.T. 0.012 min

Lab File: VN077818.D

Acq: 23 May 2023 15:54

Instrument :

MSVOA_N

ClientSampleId :

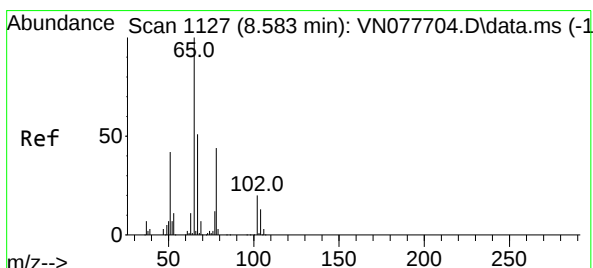
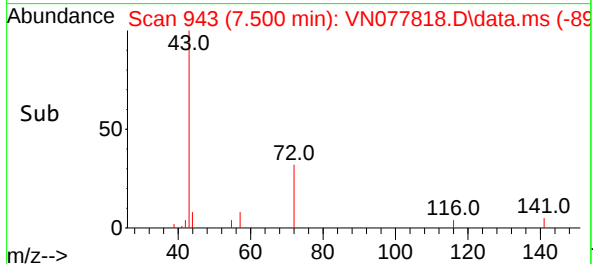
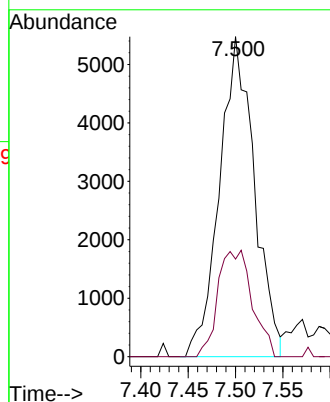
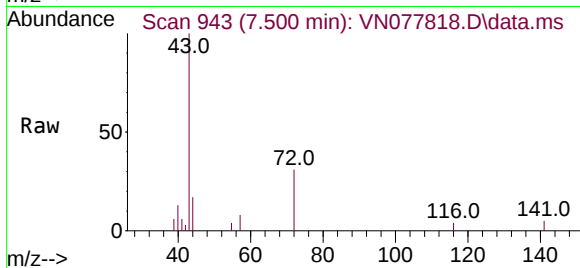
2005

Tgt Ion: 43 Resp: 13971

Ion Ratio Lower Upper

43 100

72 30.5 30.2 45.2



#33

1,2-Dichloroethane-d4

Concen: 44.957 ug/l

RT: 8.588 min Scan# 1128

Delta R.T. 0.006 min

Lab File: VN077818.D

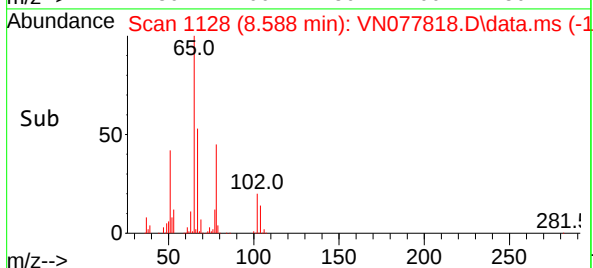
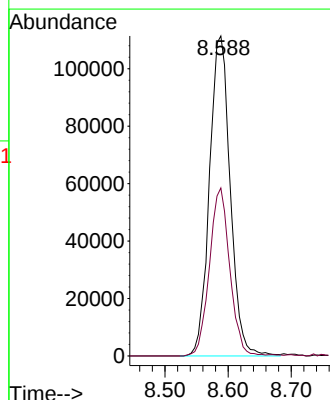
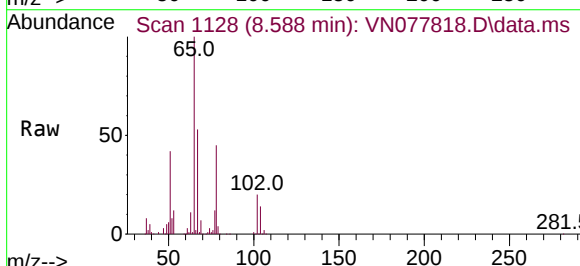
Acq: 23 May 2023 15:54

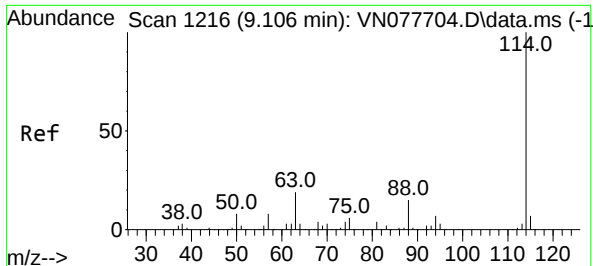
Tgt Ion: 65 Resp: 254294

Ion Ratio Lower Upper

65 100

67 51.6 0.0 106.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN077818.D

Acq: 23 May 2023 15:54

Instrument :

MSVOA_N

ClientSampleId :

2005

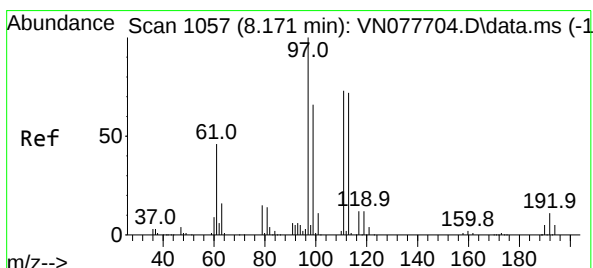
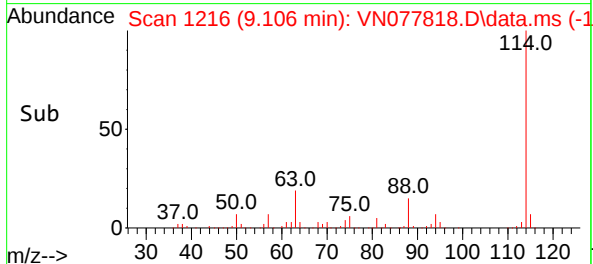
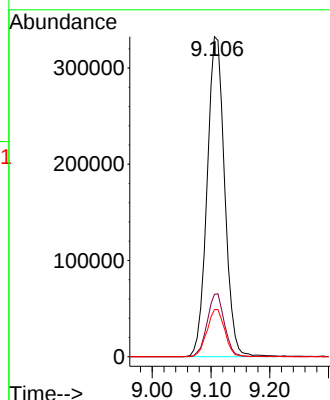
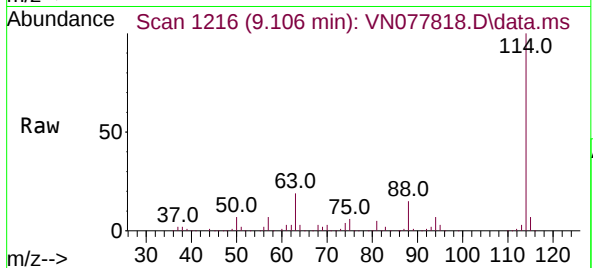
Tgt Ion:114 Resp: 688922

Ion Ratio Lower Upper

114 100

63 19.5 0.0 36.4

88 14.7 0.0 30.6



#35

Dibromofluoromethane

Concen: 48.605 ug/l

RT: 8.177 min Scan# 1058

Delta R.T. 0.006 min

Lab File: VN077818.D

Acq: 23 May 2023 15:54

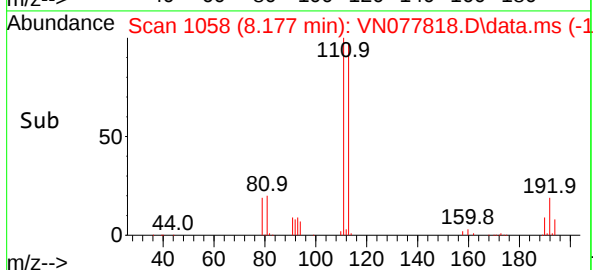
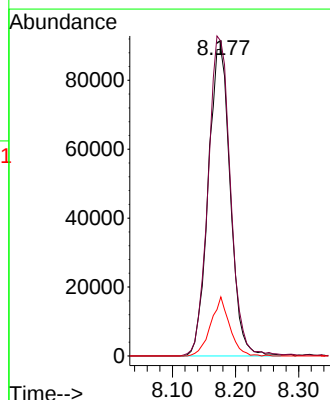
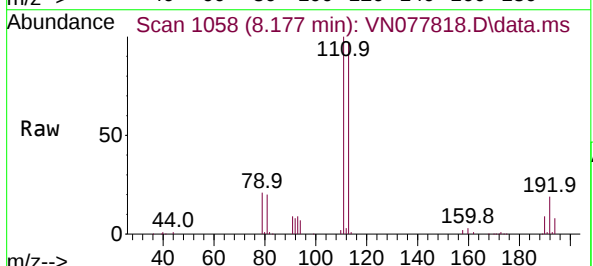
Tgt Ion:113 Resp: 218352

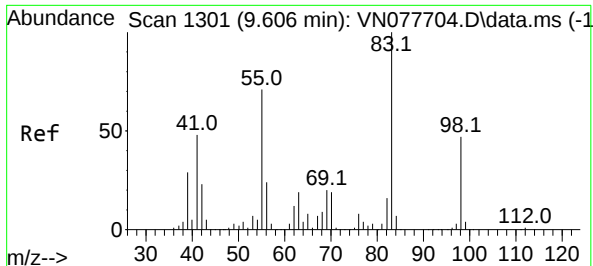
Ion Ratio Lower Upper

113 100

111 104.7 82.6 123.8

192 16.3 12.7 19.1





#39

Methylcyclohexane

Concen: 0.398 ug/l

RT: 9.606 min Scan# 11301

Delta R.T. -0.000 min

Lab File: VN077818.D

Acq: 23 May 2023 15:54

Instrument :

MSVOA_N

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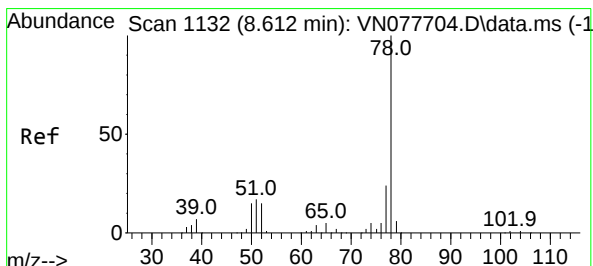
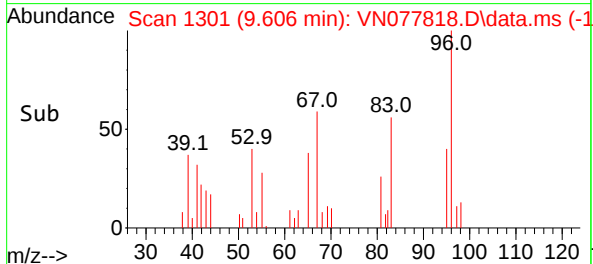
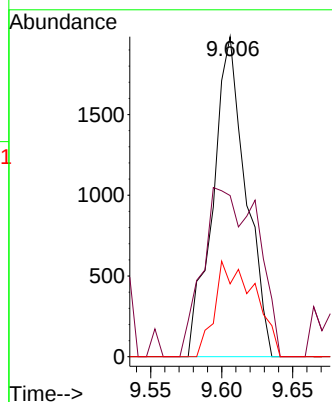
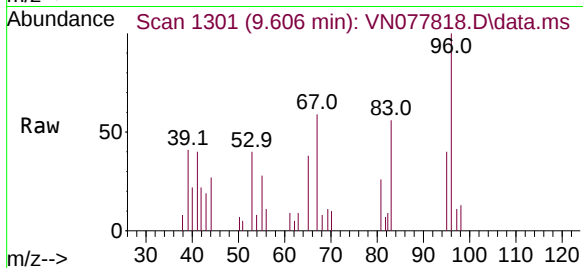
Tgt Ion: 83 Resp: 3205

Ion Ratio Lower Upper

83 100

55 50.4 49.1 73.7

98 22.8 40.6 61.0#



#40

Benzene

Concen: 29.237 ug/l

RT: 8.612 min Scan# 1132

Delta R.T. -0.000 min

Lab File: VN077818.D

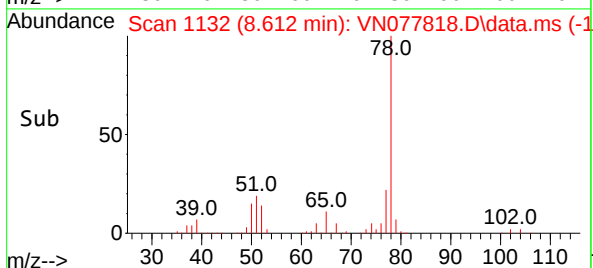
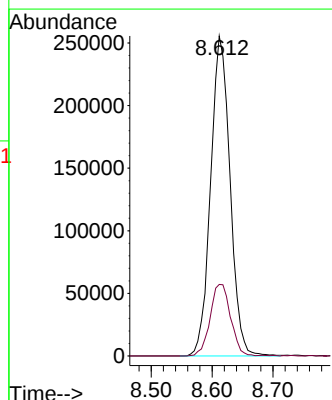
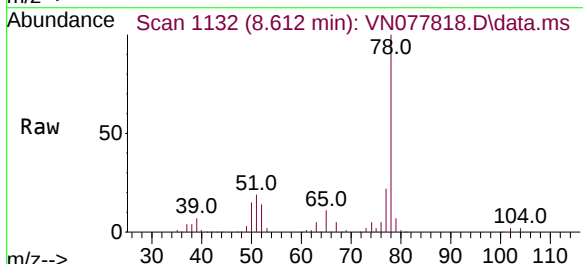
Acq: 23 May 2023 15:54

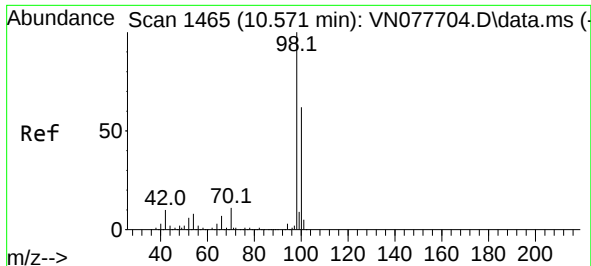
Tgt Ion: 78 Resp: 566919

Ion Ratio Lower Upper

78 100

77 22.4 19.0 28.6

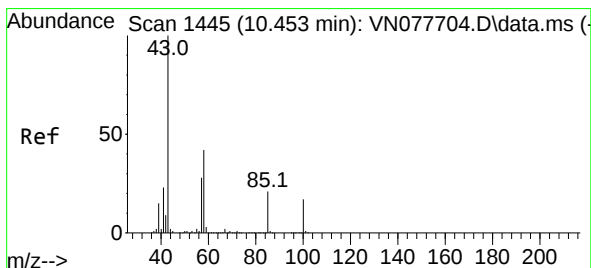
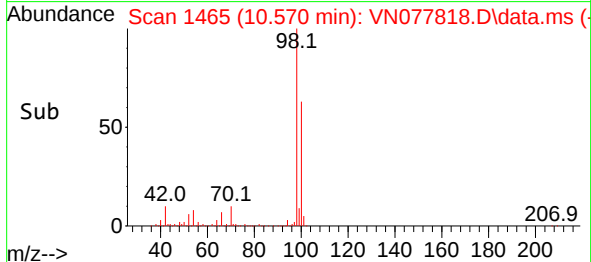
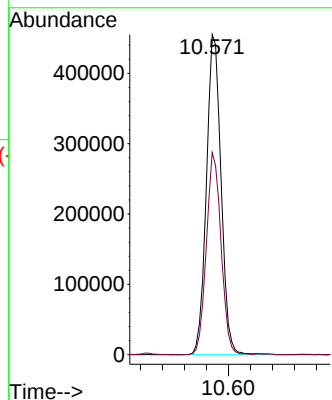
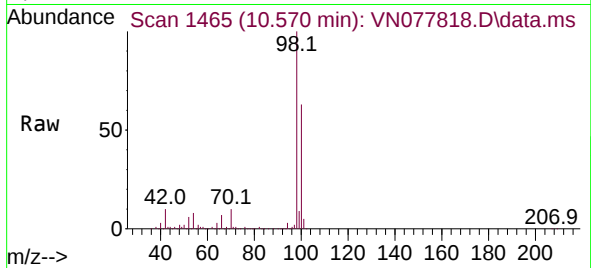




#50
Toluene-d8
Concen: 48.606 ug/l
RT: 10.570 min Scan# 1465
Delta R.T. -0.001 min
Lab File: VN077818.D
Acq: 23 May 2023 15:54

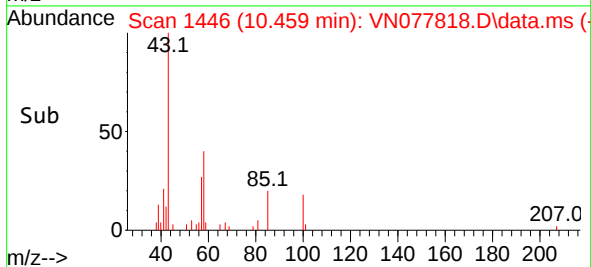
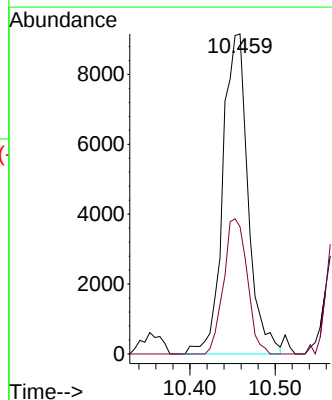
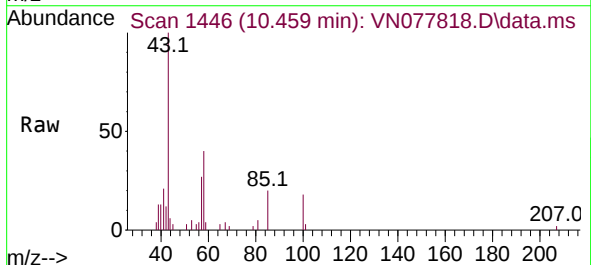
Instrument :
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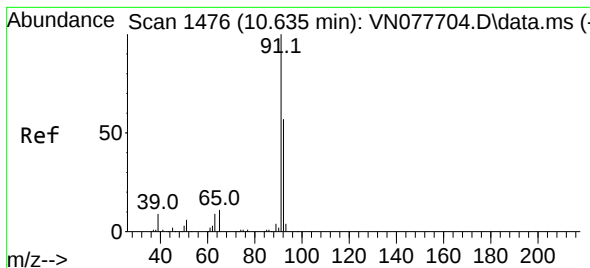
Tgt Ion: 98 Resp: 840478
Ion Ratio Lower Upper
98 100
100 63.3 52.0 78.0



#51
4-Methyl-2-Pentanone
Concen: 3.314 ug/l
RT: 10.459 min Scan# 1446
Delta R.T. 0.012 min
Lab File: VN077818.D
Acq: 23 May 2023 15:54

Tgt Ion: 43 Resp: 18843
Ion Ratio Lower Upper
43 100
58 39.4 36.6 54.8





#52

Toluene

Concen: 26.593 ug/l

RT: 10.635 min Scan# 1476

Delta R.T. 0.000 min

Lab File: VN077818.D

Acq: 23 May 2023 15:54

Instrument :

MSVOA_N

ClientSampleId :

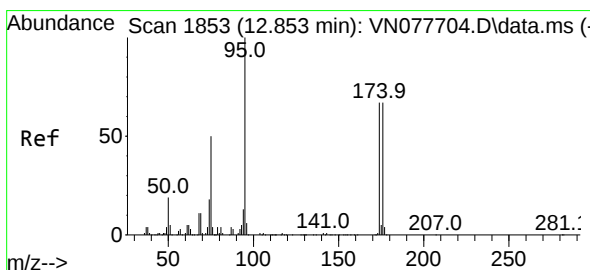
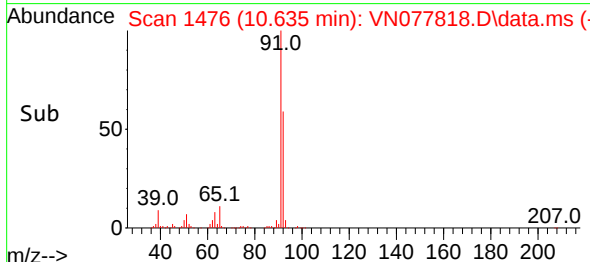
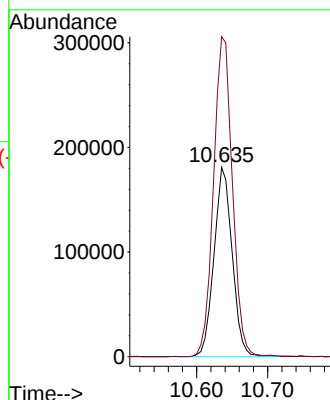
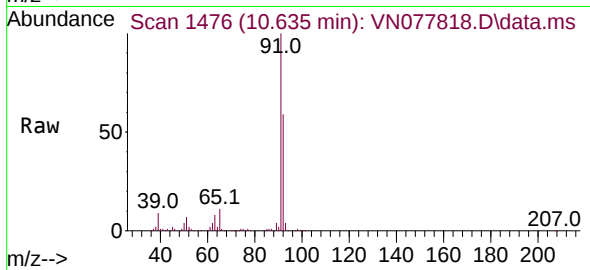
2005

Tgt Ion: 92 Resp: 321019

Ion Ratio Lower Upper

92 100

91 175.8 137.4 206.0



#62

4-Bromofluorobenzene

Concen: 47.802 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. -0.000 min

Lab File: VN077818.D

Acq: 23 May 2023 15:54

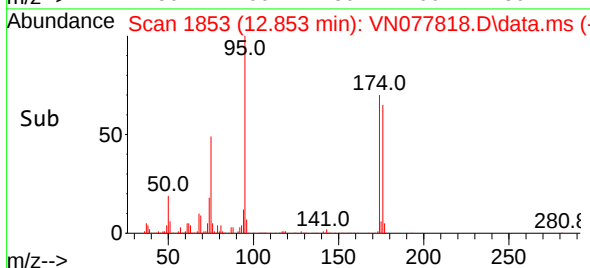
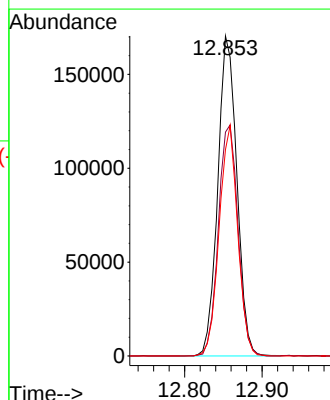
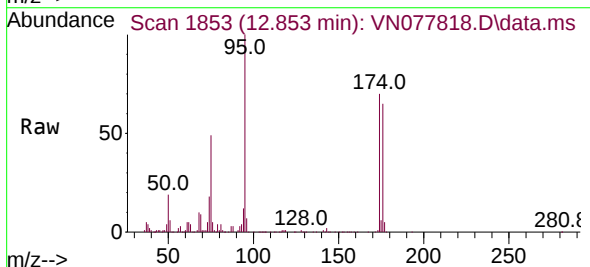
Tgt Ion: 95 Resp: 291925

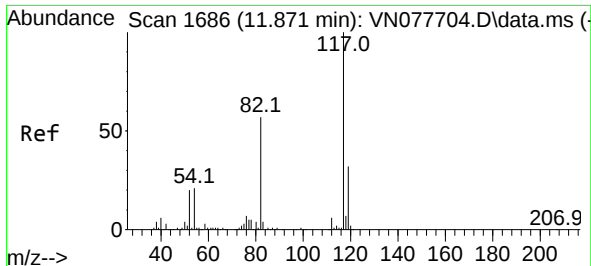
Ion Ratio Lower Upper

95 100

174 74.2 0.0 143.8

176 69.9 0.0 135.8

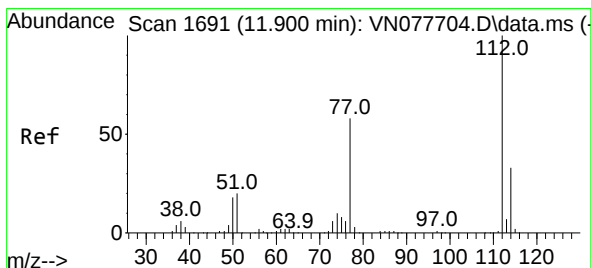
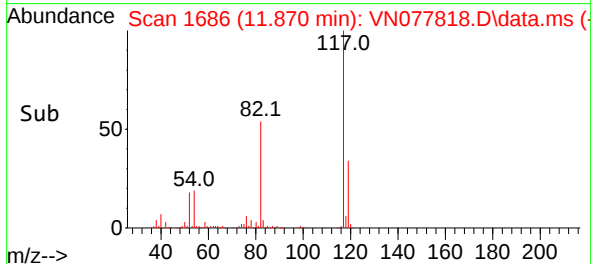
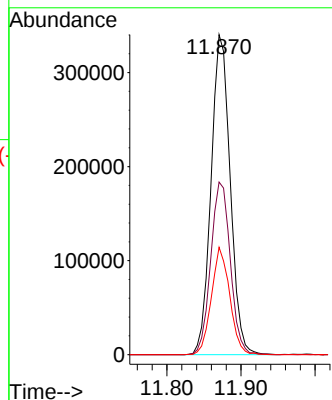
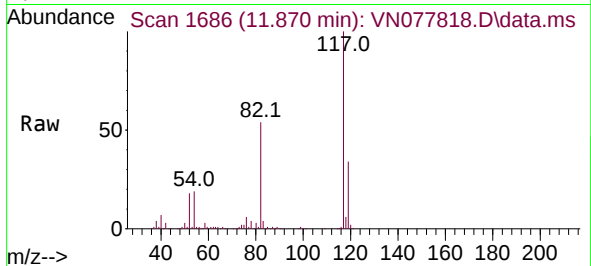




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.870 min Scan# 1170
Delta R.T. 0.000 min
Lab File: VN077818.D
Acq: 23 May 2023 15:54

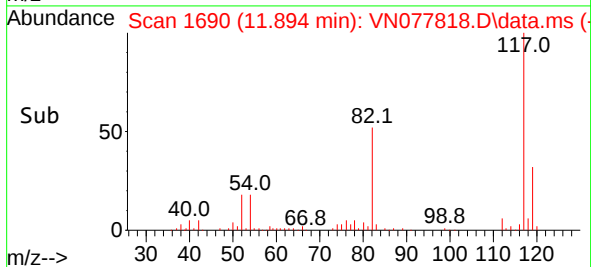
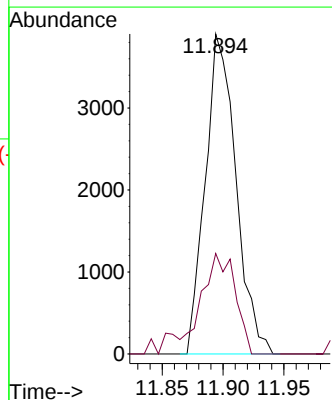
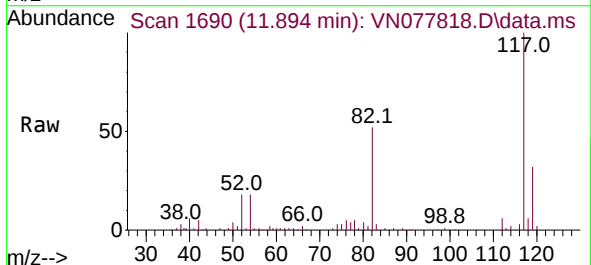
Instrument :
MSVOA_N
ClientSampleId :
2005

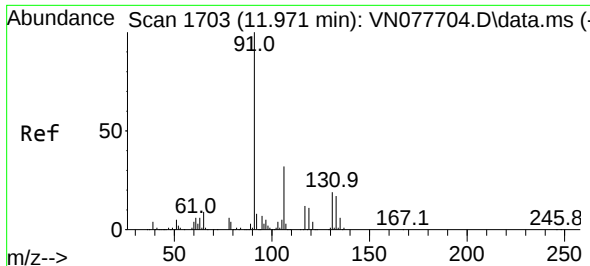
Tgt Ion	Ratio	Lower	Upper
117	100		
82	53.9	44.0	66.0
119	33.6	25.6	38.4



#65
Chlorobenzene
Concen: 0.516 ug/l
RT: 11.894 min Scan# 1690
Delta R.T. -0.006 min
Lab File: VN077818.D
Acq: 23 May 2023 15:54

Tgt Ion	Ratio	Lower	Upper
112	100		
114	31.4	25.0	37.4

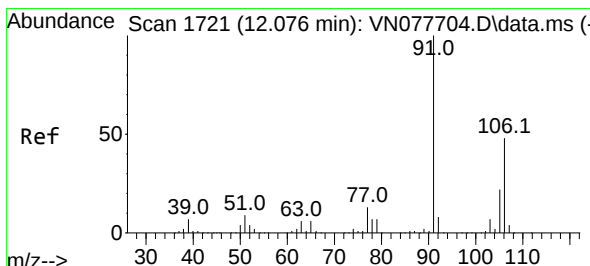
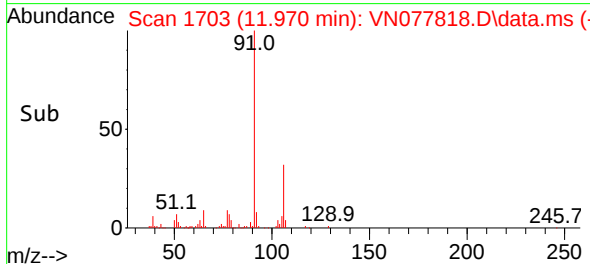
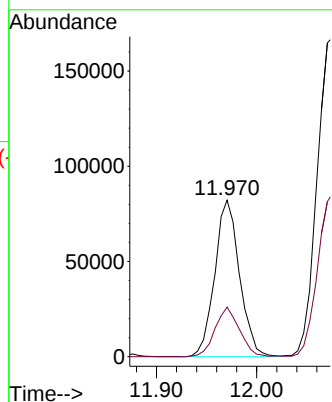
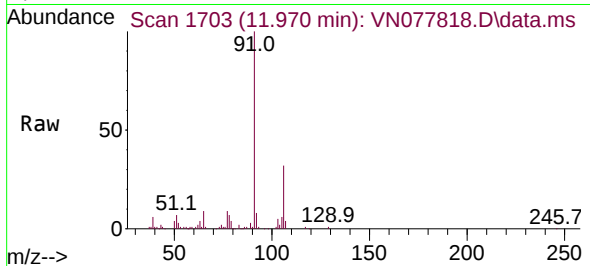




#67
Ethyl Benzene
Concen: 5.956 ug/l
RT: 11.970 min Scan# 1703
Delta R.T. 0.000 min
Lab File: VN077818.D
Acq: 23 May 2023 15:54

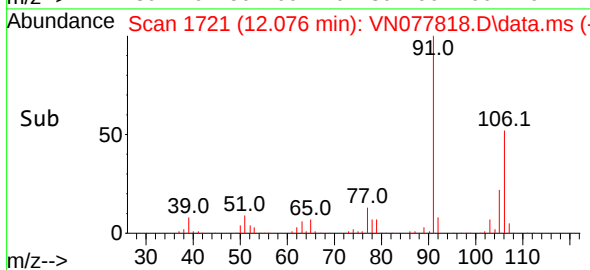
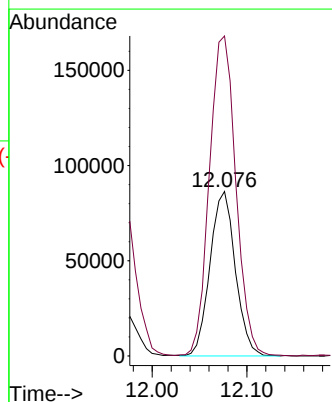
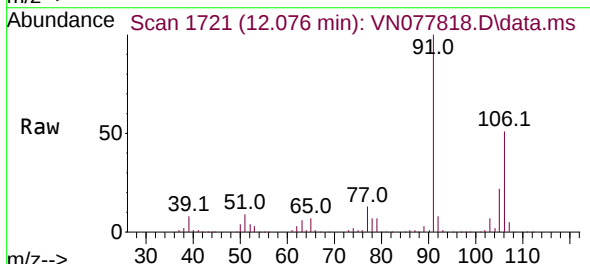
Instrument :
MSVOA_N
ClientSampleId :
2005

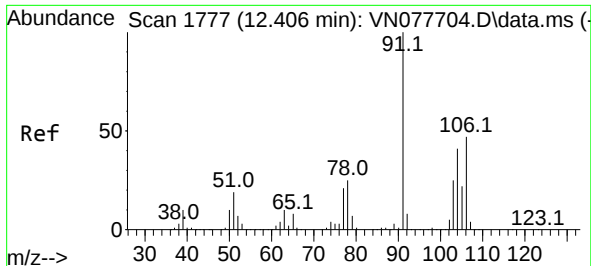
Tgt Ion: 91 Resp: 141173
Ion Ratio Lower Upper
91 100
106 31.6 25.6 38.4



#68
m/p-Xylenes
Concen: 17.878 ug/l
RT: 12.076 min Scan# 1721
Delta R.T. 0.000 min
Lab File: VN077818.D
Acq: 23 May 2023 15:54

Tgt Ion:106 Resp: 160571
Ion Ratio Lower Upper
106 100
91 203.8 159.6 239.4

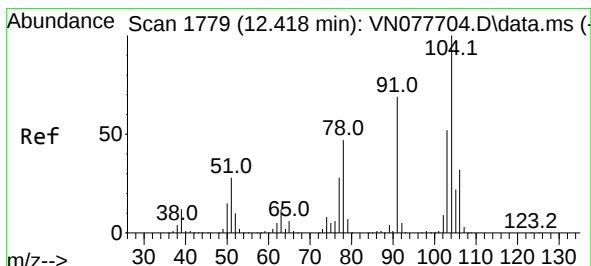
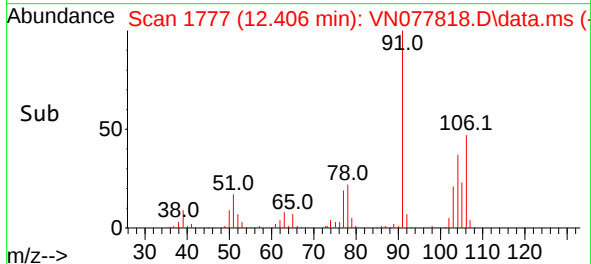
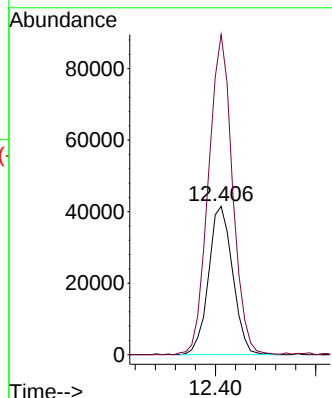
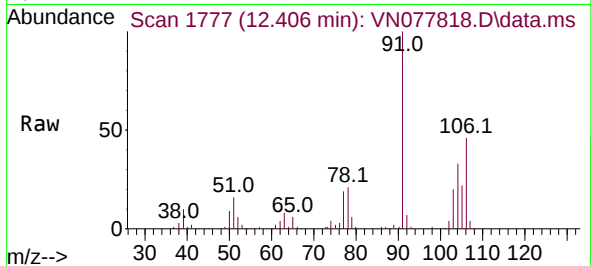




#69
o-Xylene
Concen: 7.848 ug/l
RT: 12.406 min Scan# 1777
Delta R.T. -0.000 min
Lab File: VN077818.D
Acq: 23 May 2023 15:54

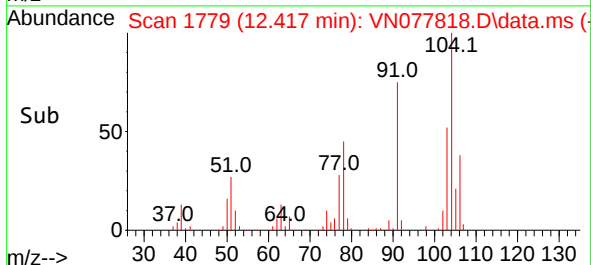
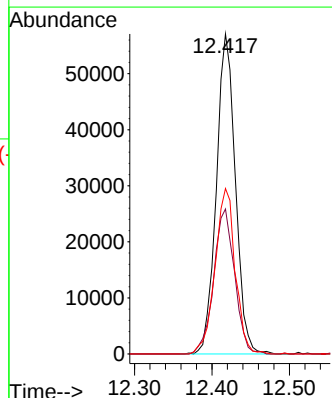
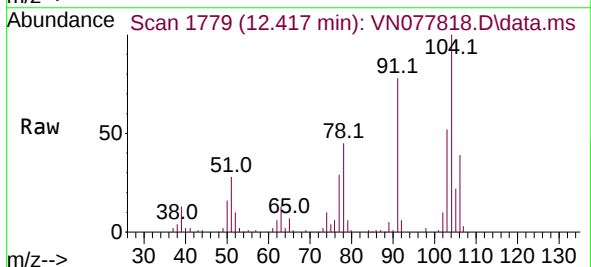
Instrument :
MSVOA_N
ClientSampleId :
2005

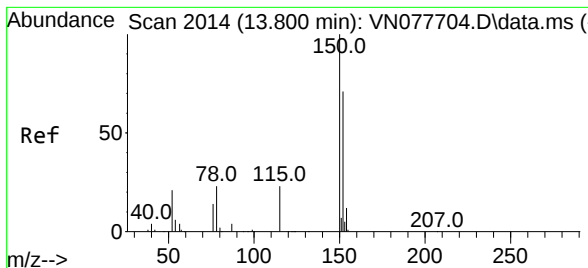
Tgt Ion:106 Resp: 69321
Ion Ratio Lower Upper
106 100
91 215.7 105.2 315.5



#70
Styrene
Concen: 6.967 ug/l
RT: 12.417 min Scan# 1779
Delta R.T. 0.000 min
Lab File: VN077818.D
Acq: 23 May 2023 15:54

Tgt Ion:104 Resp: 97759
Ion Ratio Lower Upper
104 100
78 49.7 39.5 59.3
103 54.8 43.2 64.8





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.800 min Scan# 2014

Delta R.T. -0.000 min

Lab File: VN077818.D

Acq: 23 May 2023 15:54

Instrument :

MSVOA_N

ClientSampleId :

2005

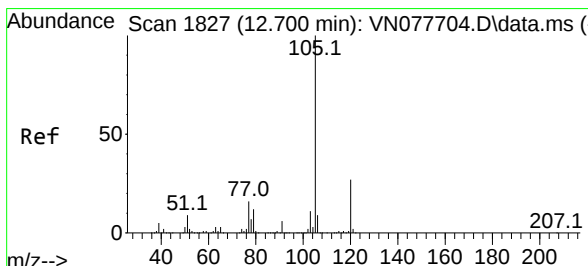
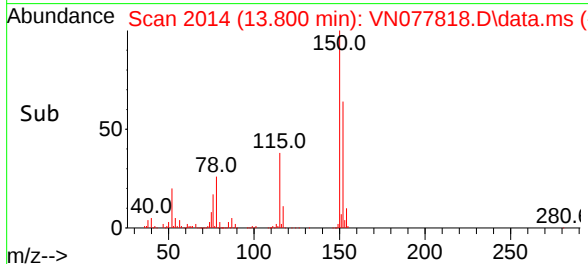
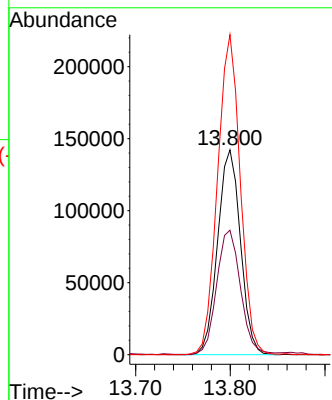
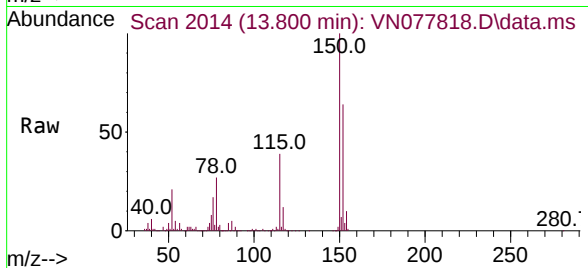
Tgt Ion:152 Resp: 237940

Ion Ratio Lower Upper

152 100

115 63.2 32.3 96.8

150 155.7 0.0 355.8



#73

Isopropylbenzene

Concen: 0.716 ug/l

RT: 12.700 min Scan# 1827

Delta R.T. -0.000 min

Lab File: VN077818.D

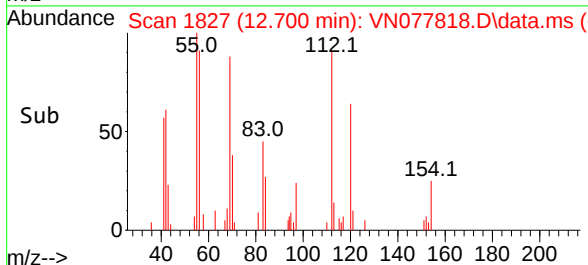
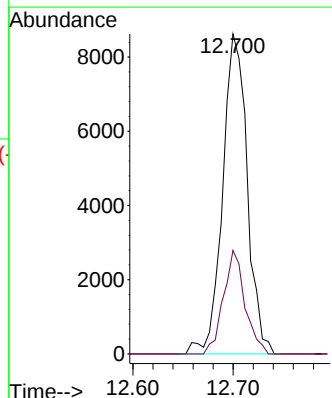
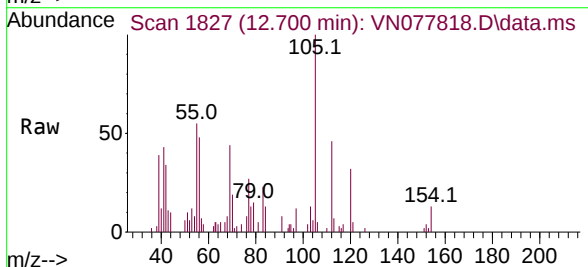
Acq: 23 May 2023 15:54

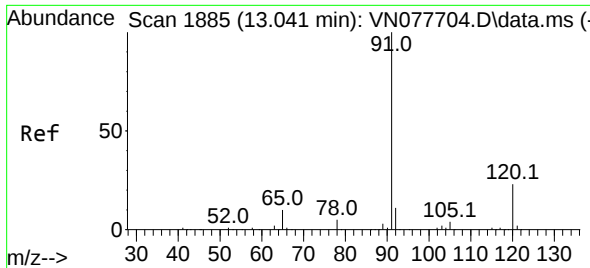
Tgt Ion:105 Resp: 14678

Ion Ratio Lower Upper

105 100

120 28.4 13.1 39.1

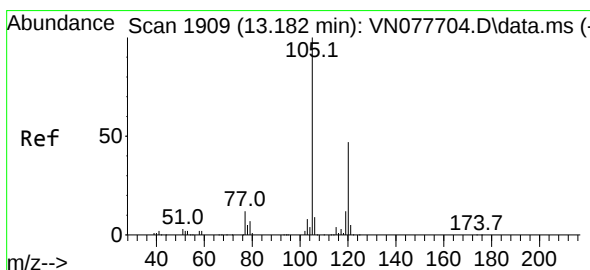
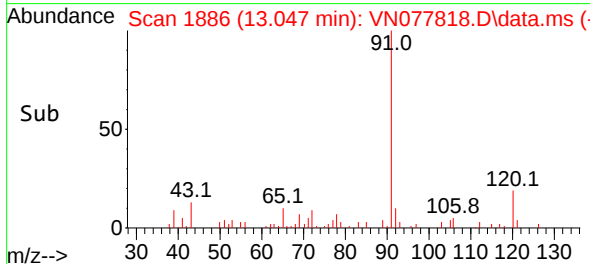
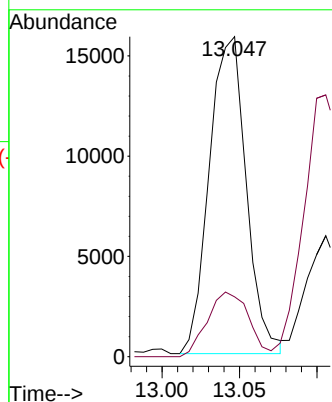
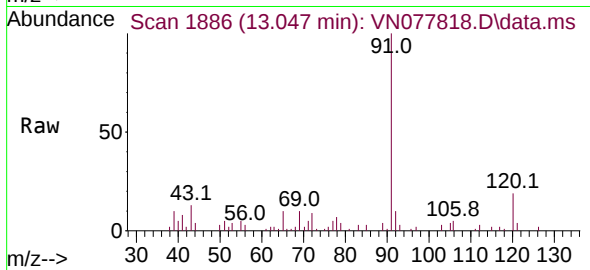




#78
n-propylbenzene
Concen: 1.084 ug/l
RT: 13.047 min Scan# 1885
Delta R.T. 0.006 min
Lab File: VN077818.D
Acq: 23 May 2023 15:54

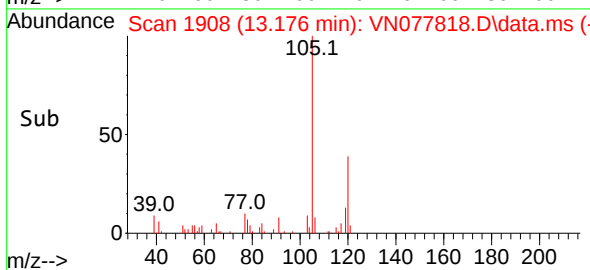
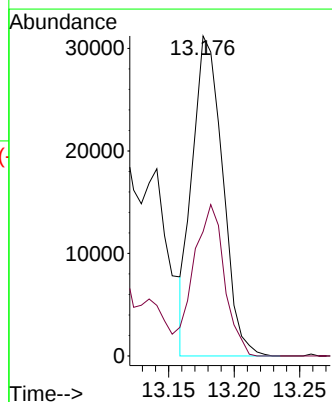
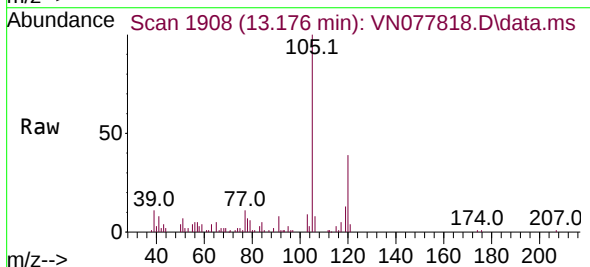
Instrument :
MSVOA_N
ClientSampleId :
2005

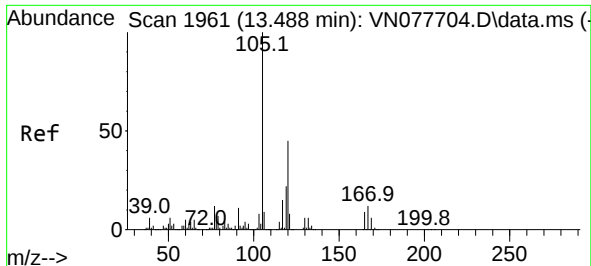
Tgt Ion: 91 Resp: 26218
Ion Ratio Lower Upper
91 100
120 22.8 11.5 34.4



#80
1,3,5-Trimethylbenzene
Concen: 2.897 ug/l
RT: 13.176 min Scan# 1908
Delta R.T. -0.006 min
Lab File: VN077818.D
Acq: 23 May 2023 15:54

Tgt Ion: 105 Resp: 49948
Ion Ratio Lower Upper
105 100
120 48.9 24.1 72.3

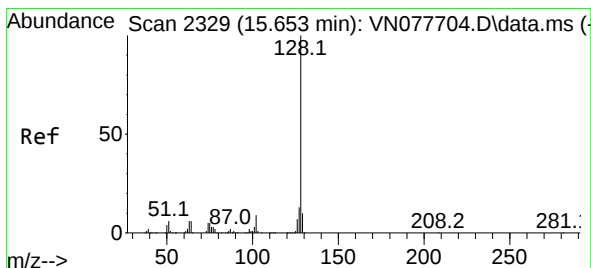
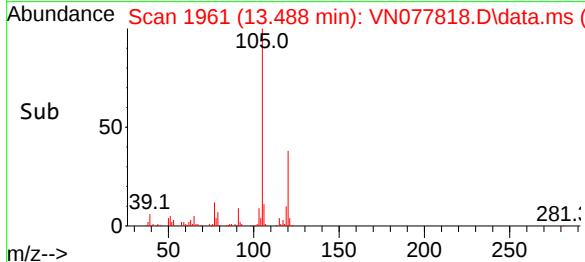
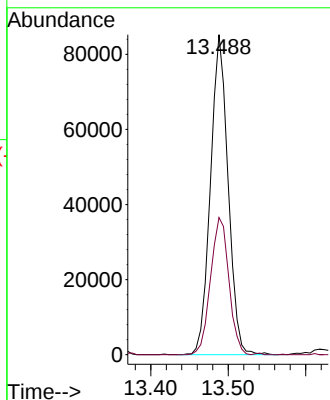
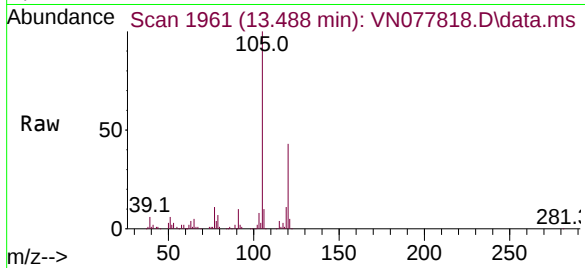




#84
1,2,4-Trimethylbenzene
Concen: 7.957 ug/l
RT: 13.488 min Scan# 1961
Delta R.T. -0.000 min
Lab File: VN077818.D
Acq: 23 May 2023 15:54

Instrument :
MSVOA_N
ClientSampleId :
2005

Tgt Ion:105 Resp: 134908
Ion Ratio Lower Upper
105 100
120 44.6 22.0 66.0



#95
Naphthalene
Concen: 34.197 ug/l
RT: 15.647 min Scan# 2328
Delta R.T. -0.000 min
Lab File: VN077818.D
Acq: 23 May 2023 15:54

Tgt Ion:128 Resp: 556240
Ion Ratio Lower Upper
128 100
127 13.4 10.0 15.0
129 11.1 8.7 13.1

