

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN042523\
 Data File : VN077478.D
 Acq On : 25 Apr 2023 18:45
 Operator : JC\MD
 Sample : 02460-05
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-4

Quant Time: Apr 26 04:23:16 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N042423W.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 25 02:50:59 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.231	168	564230	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.107	114	1092605	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.872	117	1022105	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.795	152	456749	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.584	65	364574	49.517	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	99.040%
35) Dibromofluoromethane	8.172	113	323380	49.243	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	98.480%
50) Toluene-d8	10.566	98	1393330	55.360	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	110.720%
62) 4-Bromofluorobenzene	12.848	95	505665	61.408	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	122.820%

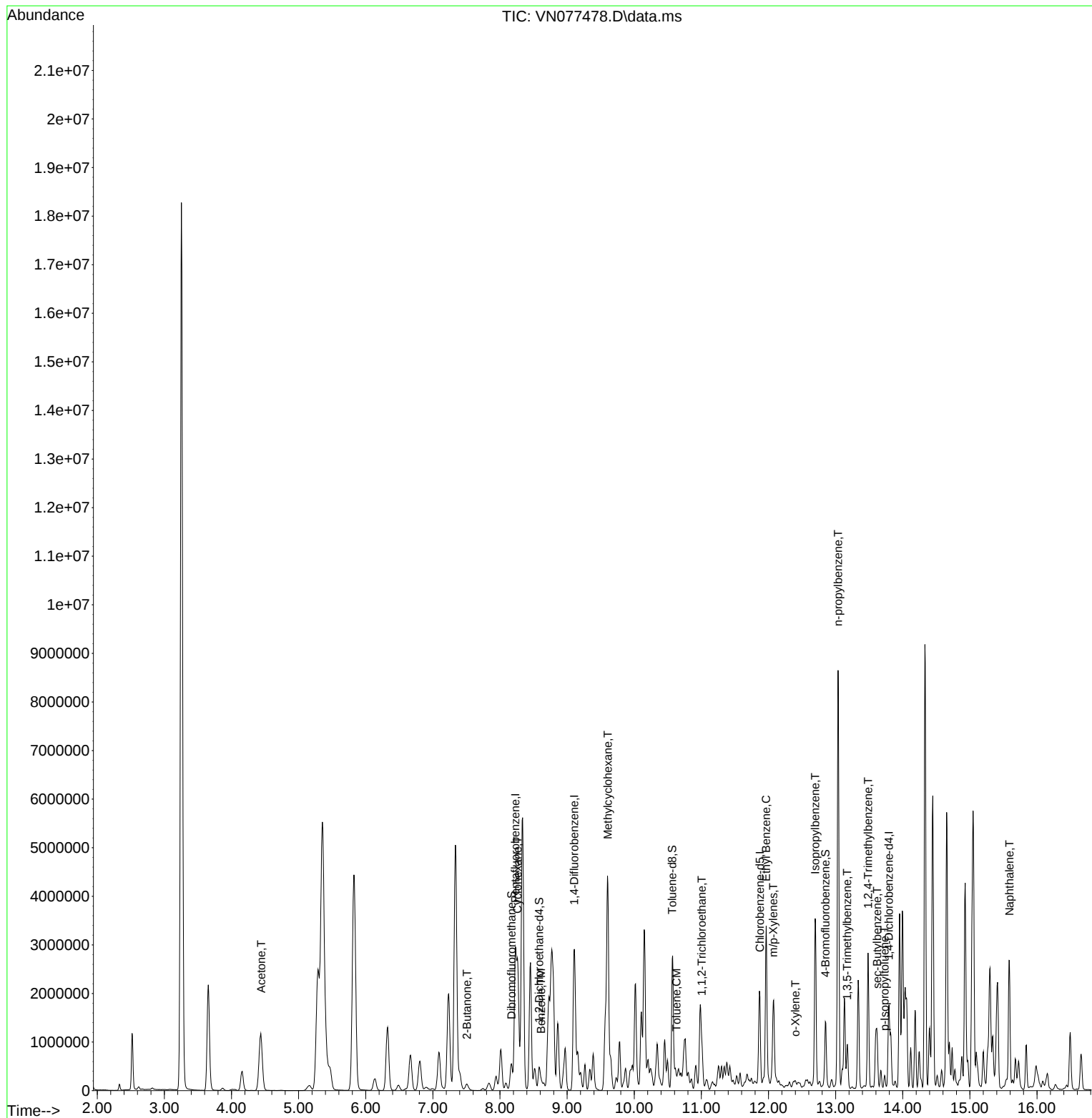
Target Compounds						Qvalue
16) Acetone	4.443	43	646143	275.855	ug/l #	53
25) 2-Butanone	7.507	43	59572	17.931	ug/l #	59
31) Cyclohexane	8.260	56	1564834	150.035	ug/l #	88
39) Methylcyclohexane	9.607	83	2108643	168.692	ug/l	99
40) Benzene	8.613	78	84281	2.916	ug/l #	88
52) Toluene	10.630	92	41338	2.183	ug/l	90
55) 1,1,2-Trichloroethane	11.007	97	286520	37.631	ug/l #	23
67) Ethyl Benzene	11.966	91	2194088	57.626	ug/l	99
68) m/p-Xylenes	12.072	106	617971	41.761	ug/l	99
69) o-Xylene	12.401	106	30804	2.116	ug/l	89
73) Isopropylbenzene	12.695	105	2495210	58.871	ug/l	100
78) n-propylbenzene	13.036	91	7099034	151.481	ug/l	100
80) 1,3,5-Trimethylbenzene	13.172	105	454487	14.439	ug/l	91
84) 1,2,4-Trimethylbenzene	13.483	105	1636128	55.658	ug/l	98
85) sec-Butylbenzene	13.619	105	728884	17.373	ug/l #	55
86) p-Isopropyltoluene	13.730	119	150871	4.674	ug/l	98
95) Naphthalene	15.589	128	2327141	88.137	ug/l	100

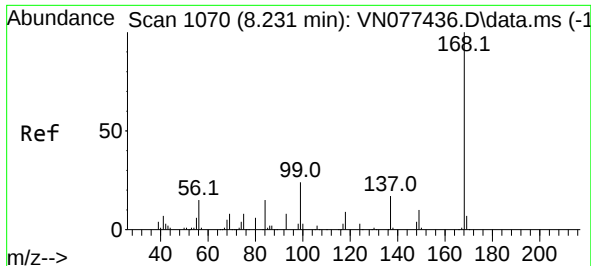
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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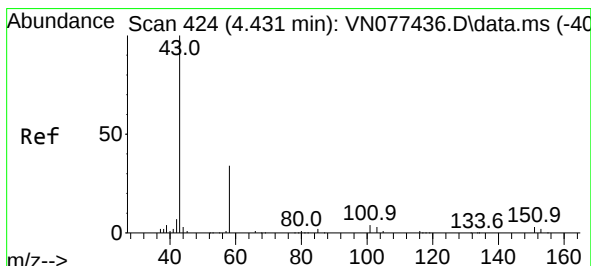
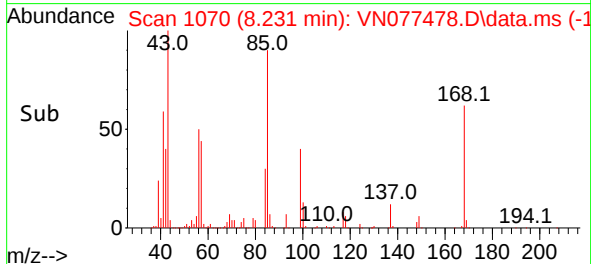
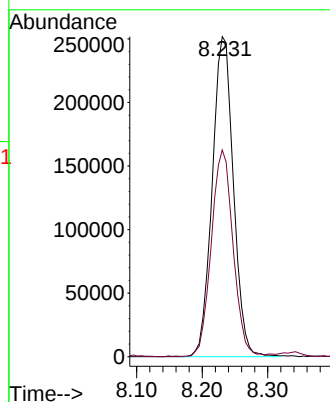
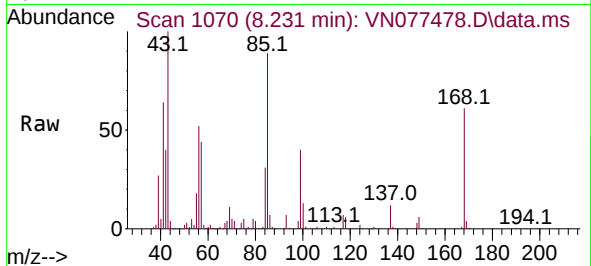




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.231 min Scan# 1070
Delta R.T. -0.000 min
Lab File: VN077478.D
Acq: 25 Apr 2023 18:45

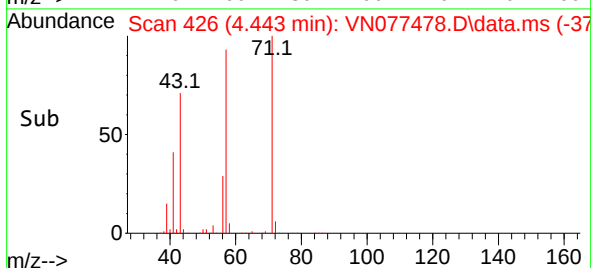
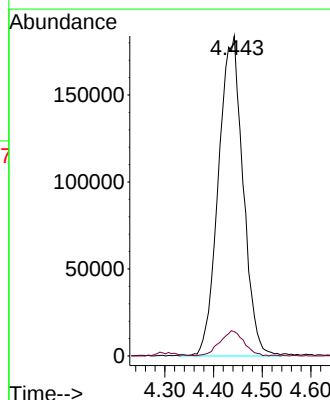
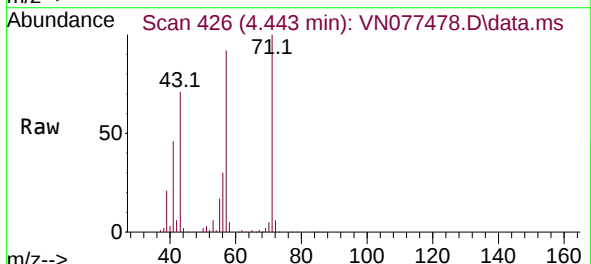
Instrument :
MSVOA_N
ClientSampleId :
MW-4

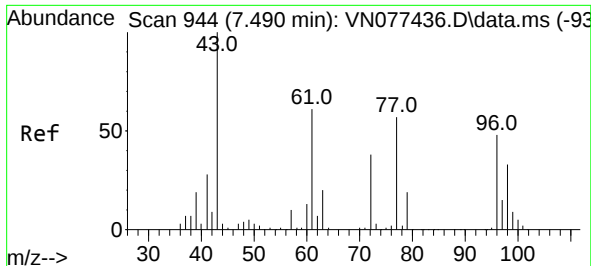
Tgt Ion:168 Resp: 564230
Ion Ratio Lower Upper
168 100
99 64.5 53.0 79.6



#16
Acetone
Concen: 275.855 ug/l
RT: 4.443 min Scan# 426
Delta R.T. 0.012 min
Lab File: VN077478.D
Acq: 25 Apr 2023 18:45

Tgt Ion: 43 Resp: 646143
Ion Ratio Lower Upper
43 100
58 7.6 28.0 42.0#

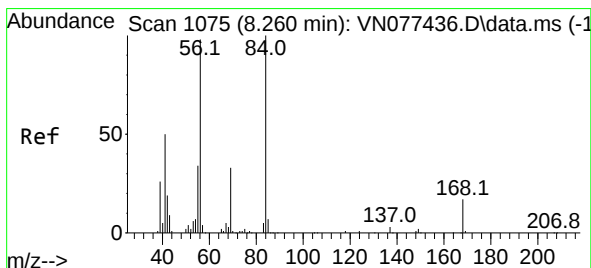
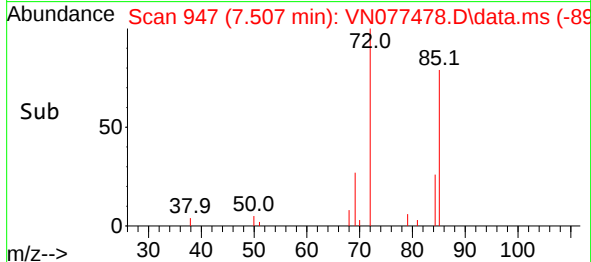
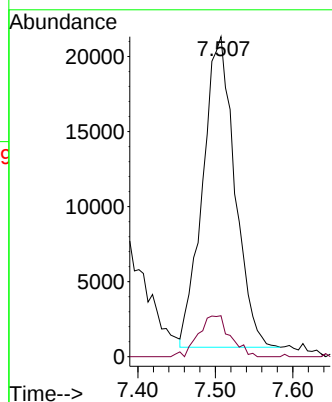
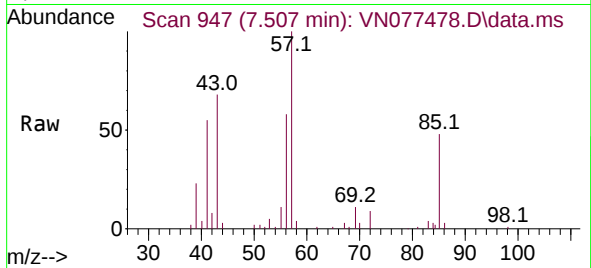




#25
2-Butanone
Concen: 17.931 ug/l
RT: 7.507 min Scan# 944
Delta R.T. 0.018 min
Lab File: VN077478.D
Acq: 25 Apr 2023 18:45

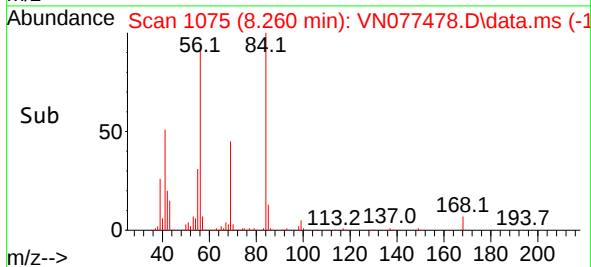
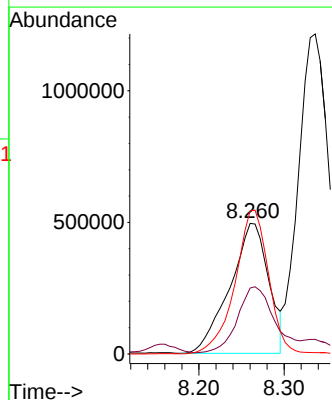
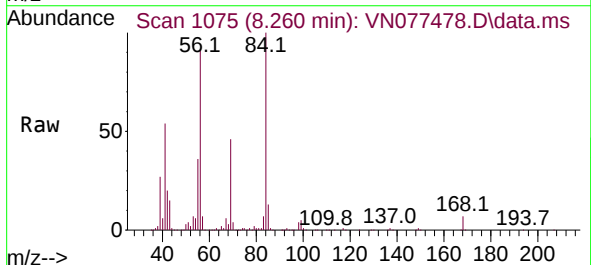
Instrument :
MSVOA_N
ClientSampleId :
MW-4

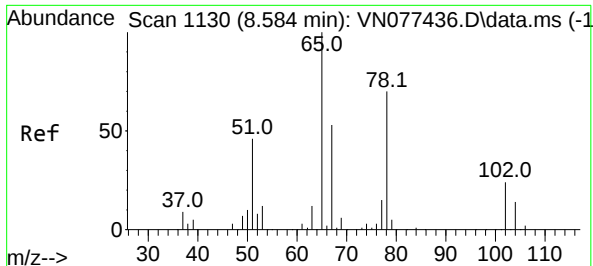
Tgt Ion: 43 Resp: 59572
Ion Ratio Lower Upper
43 100
72 13.2 30.2 45.2#



#31
Cyclohexane
Concen: 150.035 ug/l
RT: 8.260 min Scan# 1075
Delta R.T. -0.000 min
Lab File: VN077478.D
Acq: 25 Apr 2023 18:45

Tgt Ion: 56 Resp: 1564834
Ion Ratio Lower Upper
56 100
69 47.2 26.8 40.2#
84 110.0 81.8 122.6





#33

1,2-Dichloroethane-d4

Concen: 49.517 ug/l

RT: 8.584 min Scan# 1130

Delta R.T. -0.000 min

Lab File: VN077478.D

Acq: 25 Apr 2023 18:45

Instrument :

MSVOA_N

ClientSampleId :

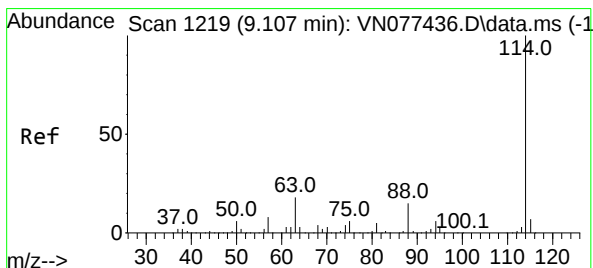
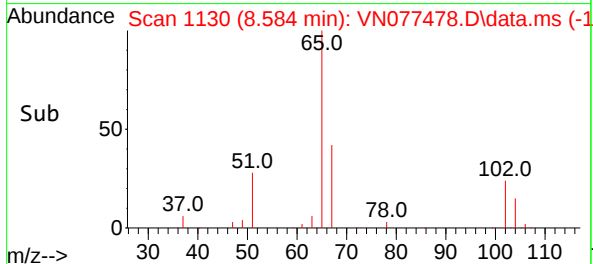
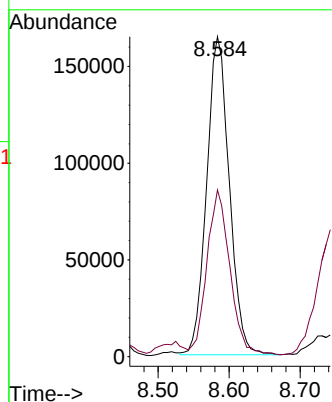
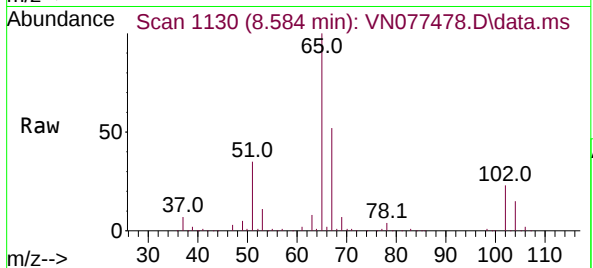
MW-4

Tgt Ion: 65 Resp: 364574

Ion Ratio Lower Upper

65 100

67 52.2 0.0 106.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.107 min Scan# 1219

Delta R.T. 0.000 min

Lab File: VN077478.D

Acq: 25 Apr 2023 18:45

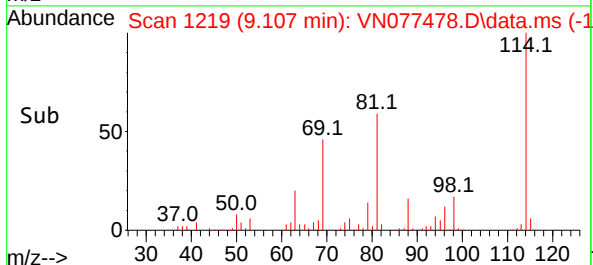
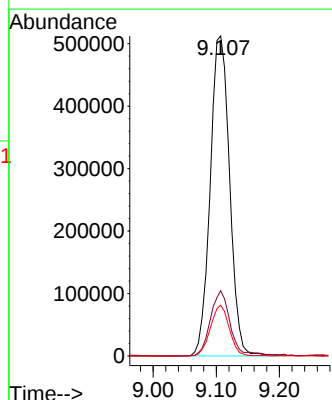
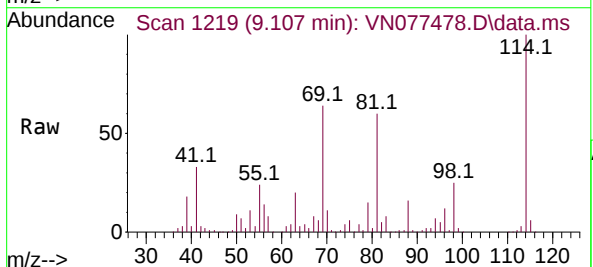
Tgt Ion: 114 Resp: 1092605

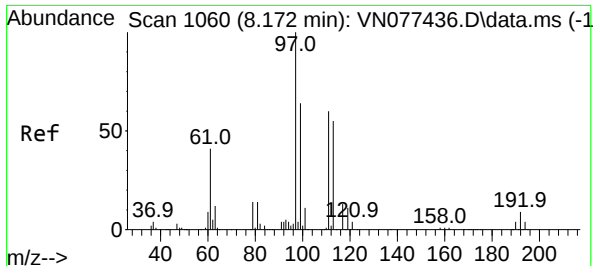
Ion Ratio Lower Upper

114 100

63 20.4 0.0 36.4

88 15.8 0.0 30.6





#35

Dibromofluoromethane

Concen: 49.243 ug/l

RT: 8.172 min Scan# 113

Delta R.T. -0.000 min

Lab File: VN077478.D

Acq: 25 Apr 2023 18:45

Instrument :

MSVOA_N

ClientSampleId :

MW-4

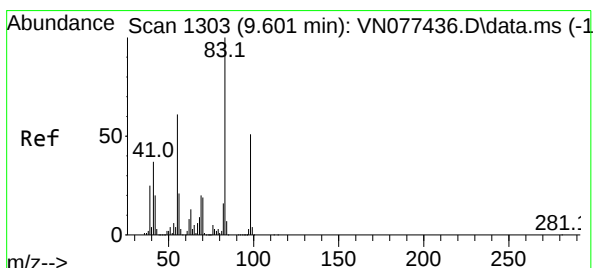
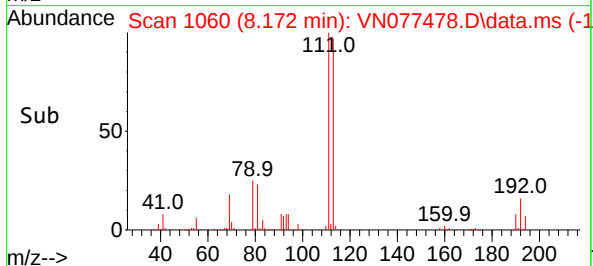
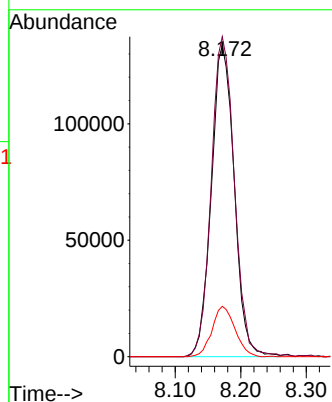
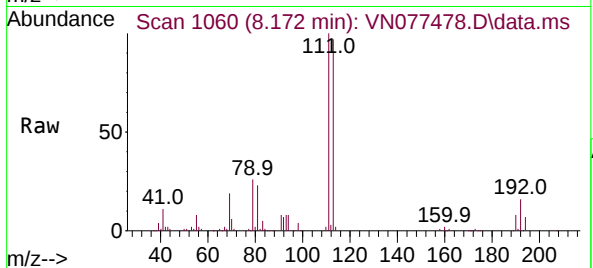
Tgt Ion:113 Resp: 323380

Ion Ratio Lower Upper

113 100

111 104.1 82.6 123.8

192 16.3 12.7 19.1



#39

Methylcyclohexane

Concen: 168.692 ug/l

RT: 9.607 min Scan# 1304

Delta R.T. 0.006 min

Lab File: VN077478.D

Acq: 25 Apr 2023 18:45

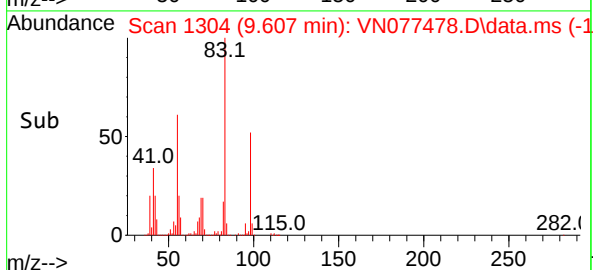
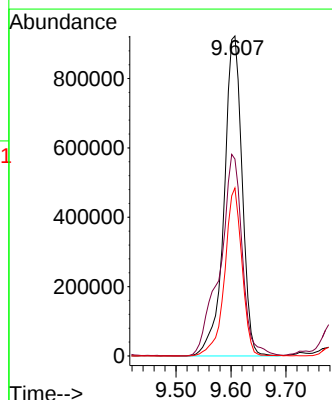
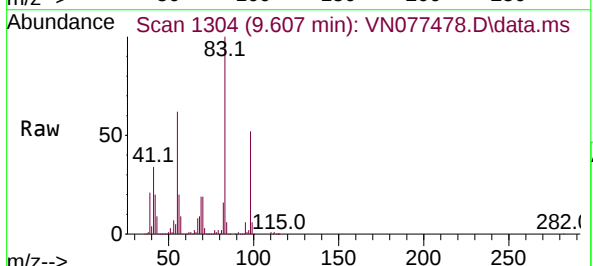
Tgt Ion: 83 Resp: 2108643

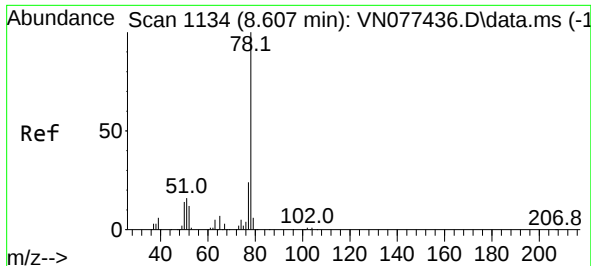
Ion Ratio Lower Upper

83 100

55 61.5 49.1 73.7

98 52.5 40.6 61.0

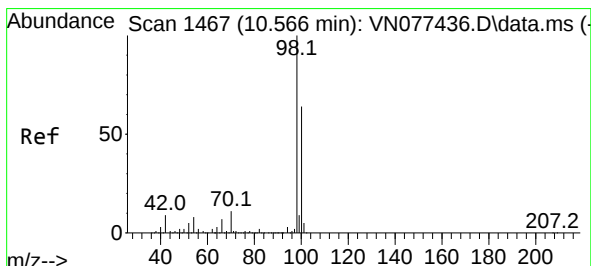
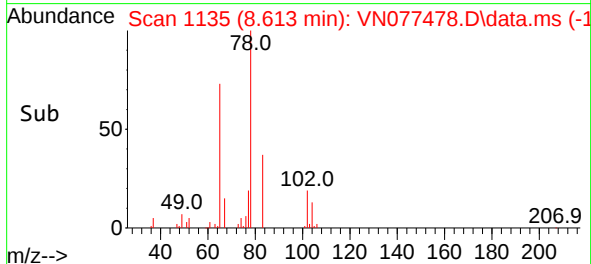
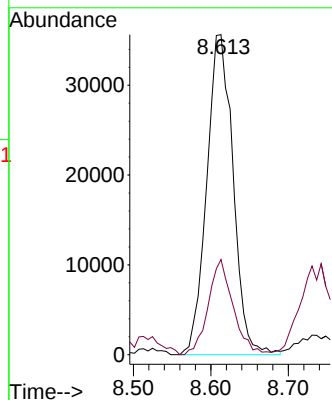
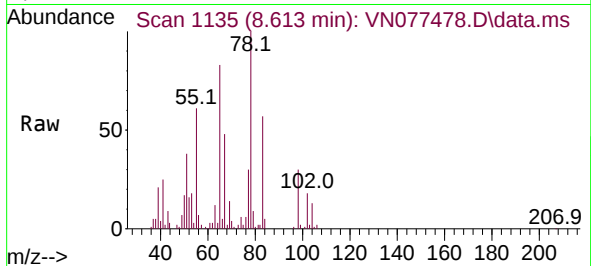




#40
Benzene
Concen: 2.916 ug/l
RT: 8.613 min Scan# 1135
Delta R.T. 0.006 min
Lab File: VN077478.D
Acq: 25 Apr 2023 18:45

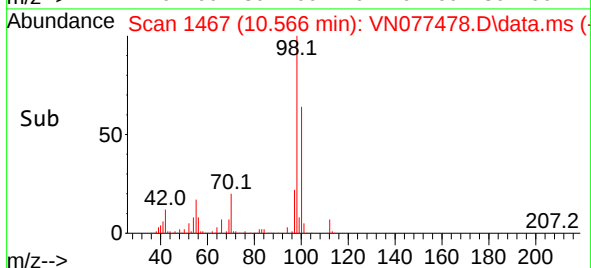
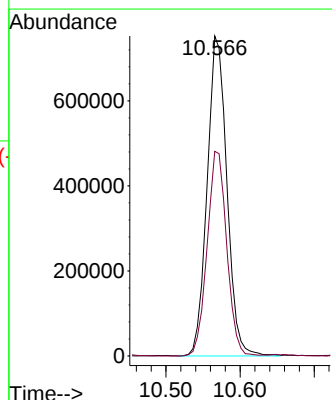
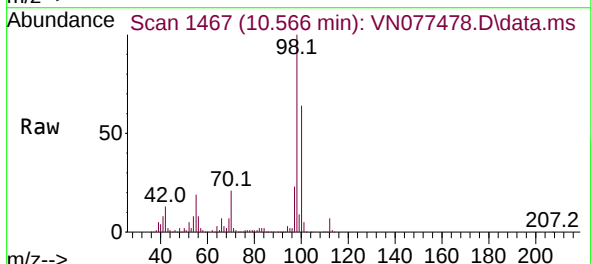
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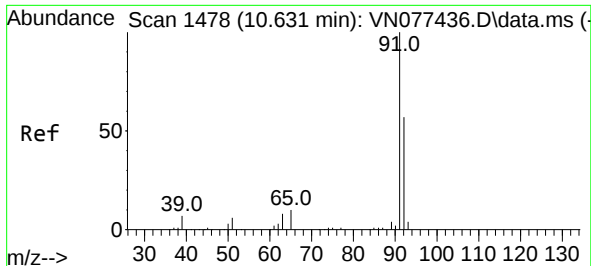
Tgt Ion: 78 Resp: 84281
Ion Ratio Lower Upper
78 100
77 29.7 19.0 28.6#



#50
Toluene-d8
Concen: 55.360 ug/l
RT: 10.566 min Scan# 1467
Delta R.T. -0.000 min
Lab File: VN077478.D
Acq: 25 Apr 2023 18:45

Tgt Ion: 98 Resp: 1393330
Ion Ratio Lower Upper
98 100
100 63.4 52.0 78.0

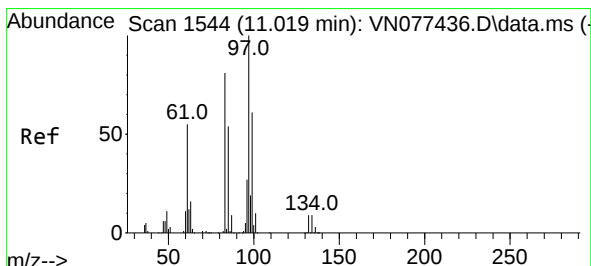
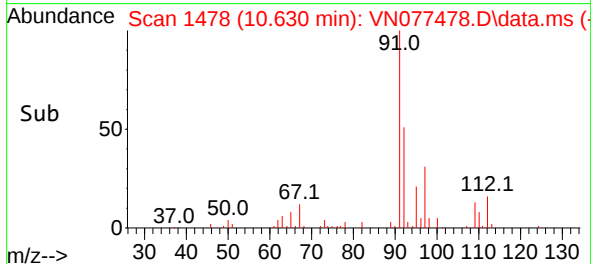
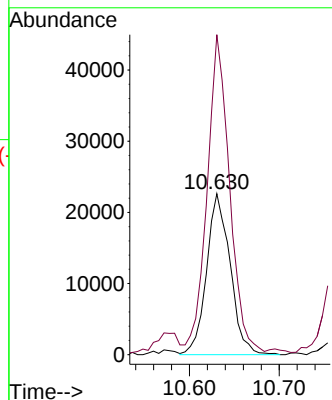
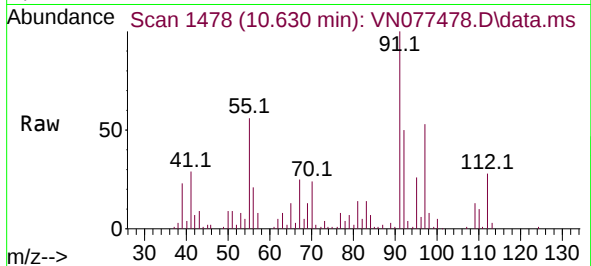




#52
Toluene
Concen: 2.183 ug/l
RT: 10.630 min Scan# 1478
Delta R.T. -0.000 min
Lab File: VN077478.D
Acq: 25 Apr 2023 18:45

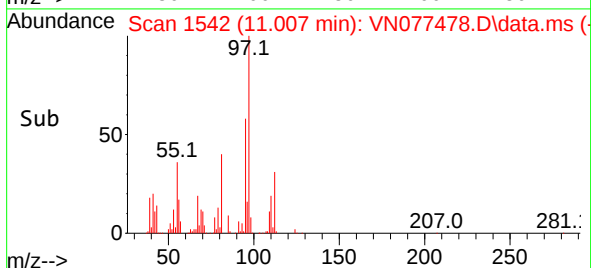
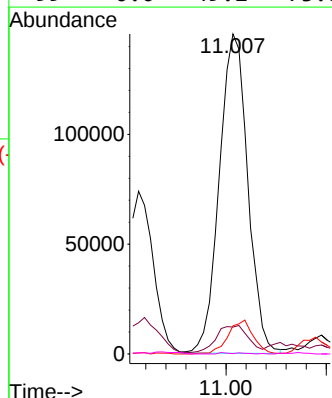
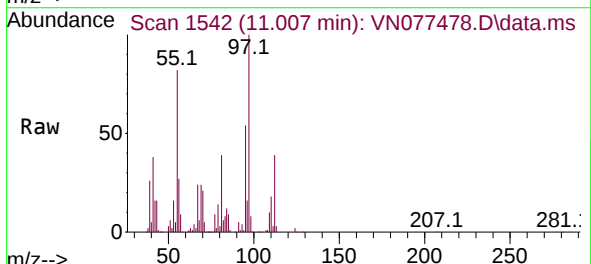
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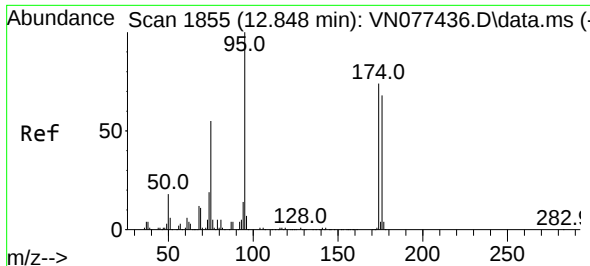
Tgt Ion: 92 Resp: 41338
Ion Ratio Lower Upper
92 100
91 186.0 137.4 206.0



#55
1,1,2-Trichloroethane
Concen: 37.631 ug/l
RT: 11.007 min Scan# 1542
Delta R.T. -0.012 min
Lab File: VN077478.D
Acq: 25 Apr 2023 18:45

Tgt Ion: 97 Resp: 286520
Ion Ratio Lower Upper
97 100
83 7.8 65.1 97.7#
85 8.8 43.4 65.2#
99 0.0 49.2 73.8#

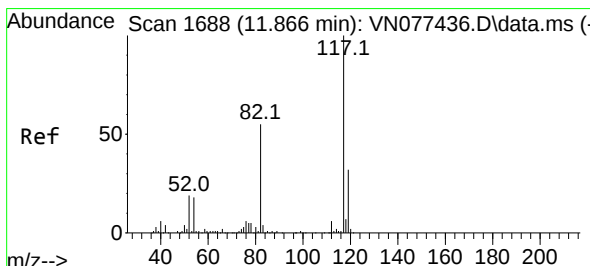
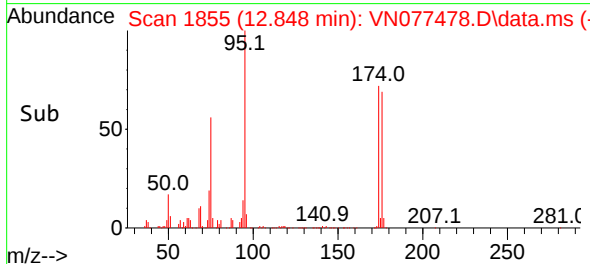
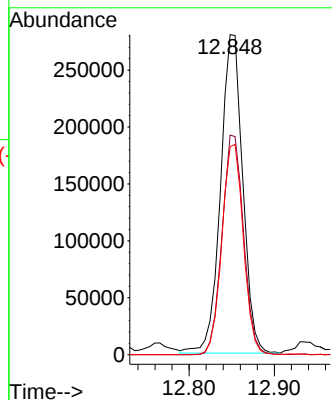
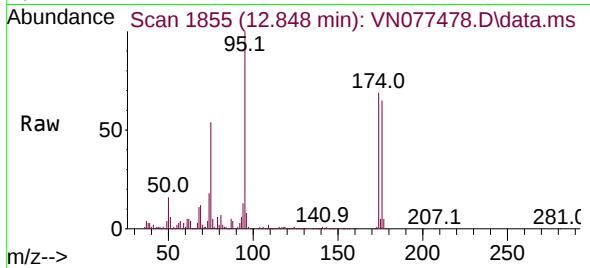




#62
4-Bromofluorobenzene
Concen: 61.408 ug/l
RT: 12.848 min Scan# 1855
Delta R.T. -0.000 min
Lab File: VN077478.D
Acq: 25 Apr 2023 18:45

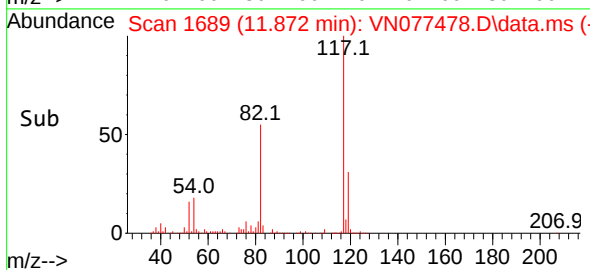
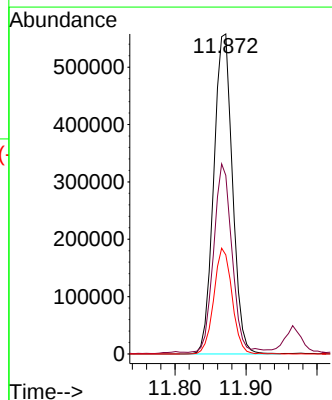
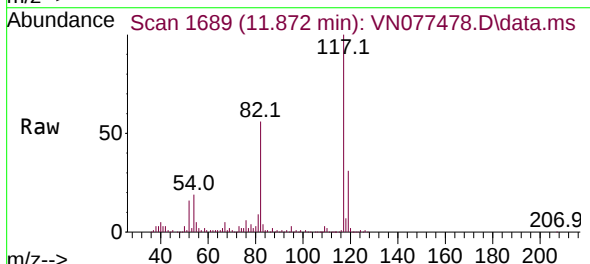
Instrument :
MSVOA_N
ClientSampleId :
MW-4

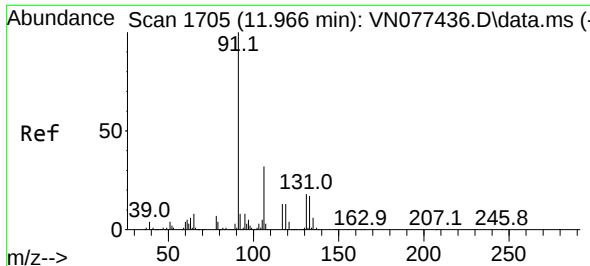
Tgt Ion: 95 Resp: 505665
Ion Ratio Lower Upper
95 100
174 66.9 0.0 143.8
176 63.8 0.0 135.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.872 min Scan# 1689
Delta R.T. 0.006 min
Lab File: VN077478.D
Acq: 25 Apr 2023 18:45

Tgt Ion: 117 Resp: 1022105
Ion Ratio Lower Upper
117 100
82 55.3 44.0 66.0
119 31.0 25.6 38.4

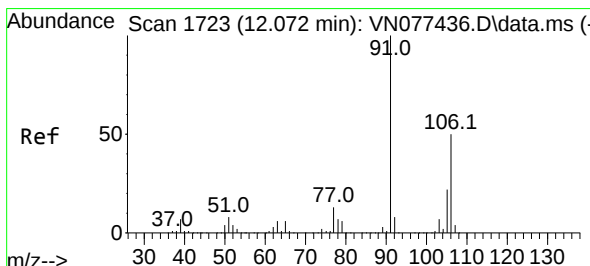
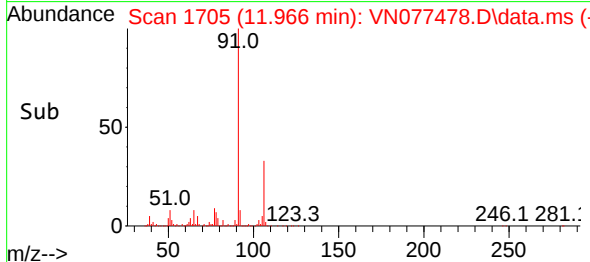
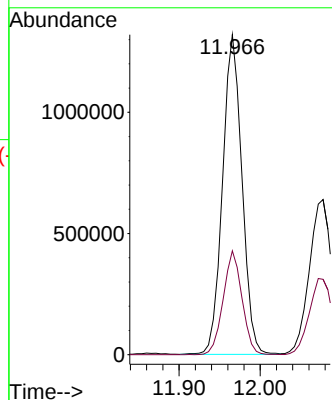
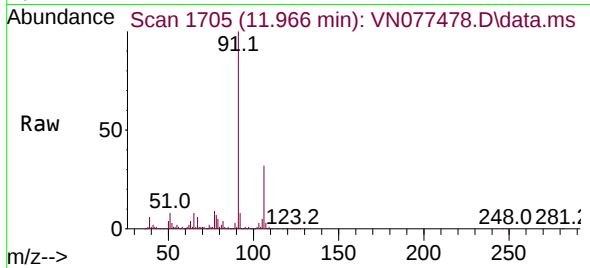




#67
Ethyl Benzene
Concen: 57.626 ug/l
RT: 11.966 min Scan# 1705
Delta R.T. -0.000 min
Lab File: VN077478.D
Acq: 25 Apr 2023 18:45

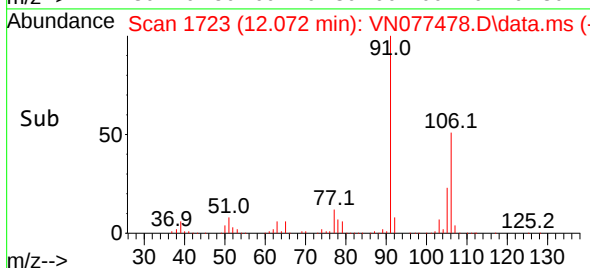
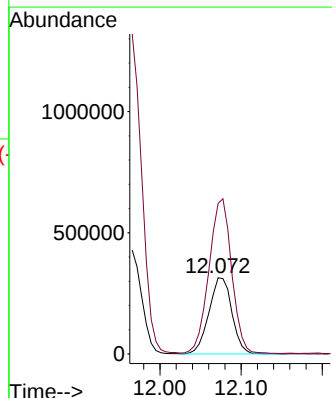
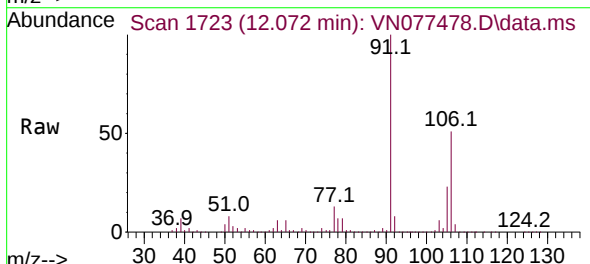
Instrument :
MSVOA_N
ClientSampleId :
MW-4

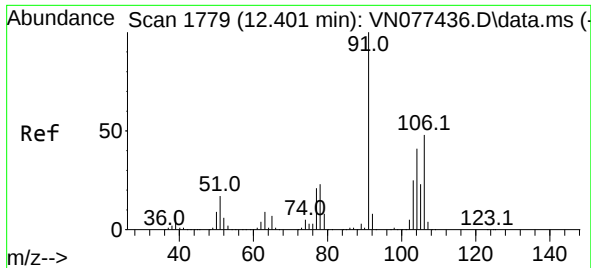
Tgt Ion: 91 Resp: 2194088
Ion Ratio Lower Upper
91 100
106 32.5 25.6 38.4



#68
m/p-Xylenes
Concen: 41.761 ug/l
RT: 12.072 min Scan# 1723
Delta R.T. -0.000 min
Lab File: VN077478.D
Acq: 25 Apr 2023 18:45

Tgt Ion:106 Resp: 617971
Ion Ratio Lower Upper
106 100
91 200.6 159.6 239.4

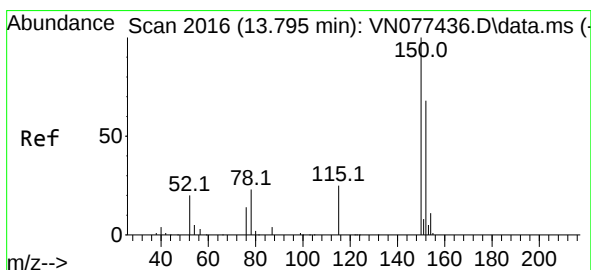
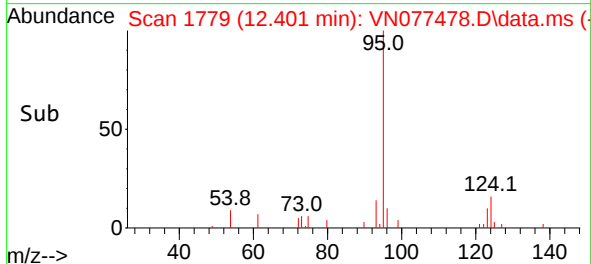
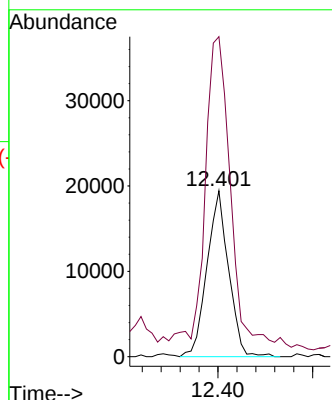
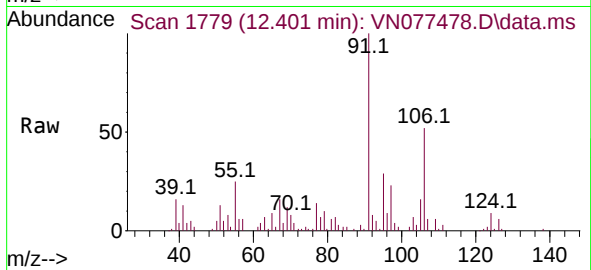




#69
o-Xylene
Concen: 2.116 ug/l
RT: 12.401 min Scan# 1779
Delta R.T. -0.000 min
Lab File: VN077478.D
Acq: 25 Apr 2023 18:45

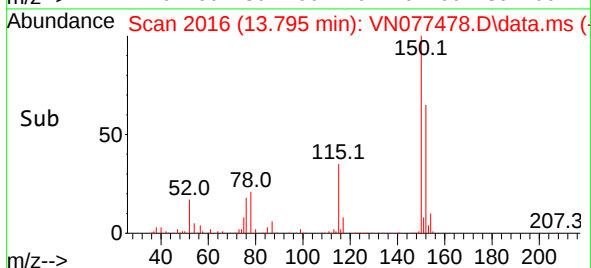
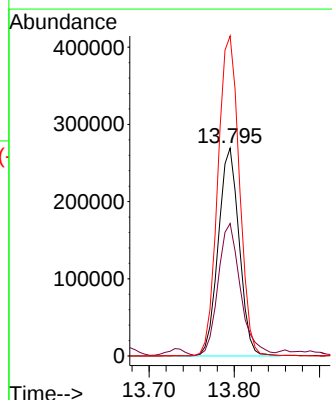
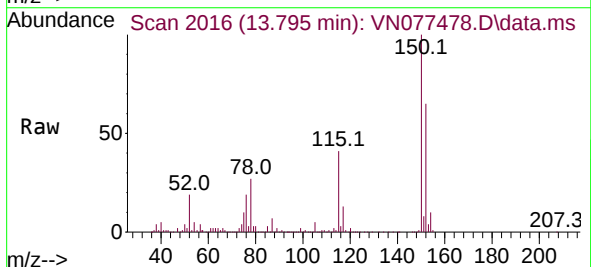
Instrument :
MSVOA_N
ClientSampleId :
MW-4

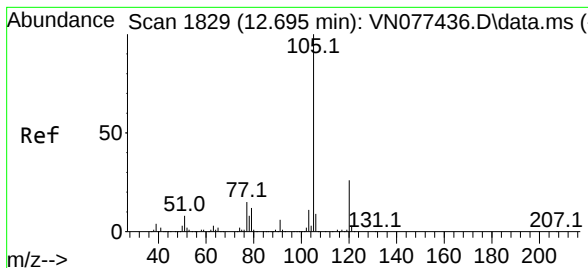
Tgt Ion:106 Resp: 30804
Ion Ratio Lower Upper
106 100
91 227.9 105.2 315.5



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.795 min Scan# 2016
Delta R.T. -0.000 min
Lab File: VN077478.D
Acq: 25 Apr 2023 18:45

Tgt Ion:152 Resp: 456749
Ion Ratio Lower Upper
152 100
115 68.1 32.3 96.8
150 159.2 0.0 355.8





#73

Isopropylbenzene

Concen: 58.871 ug/l

RT: 12.695 min Scan# 1829

Delta R.T. -0.000 min

Lab File: VN077478.D

Acq: 25 Apr 2023 18:45

Instrument :

MSVOA_N

ClientSampleId :

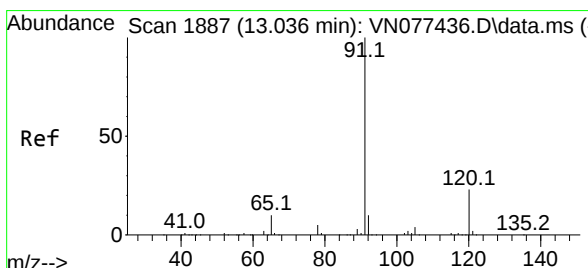
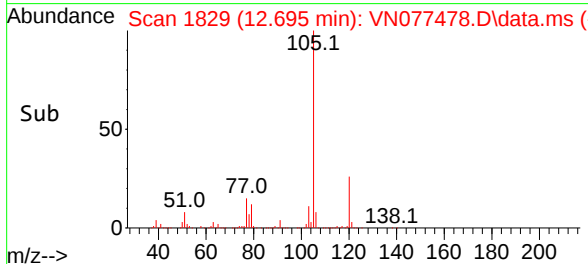
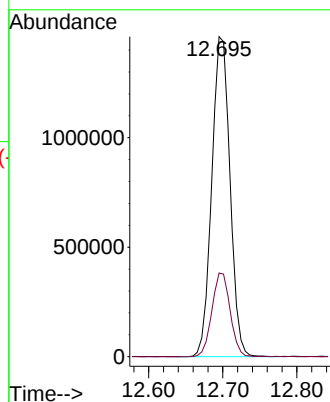
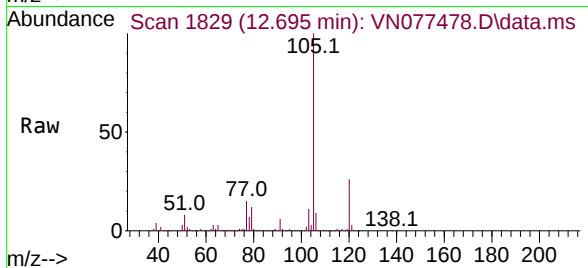
MW-4

Tgt Ion:105 Resp: 2495210

Ion Ratio Lower Upper

105 100

120 26.2 13.1 39.1



#78

n-propylbenzene

Concen: 151.481 ug/l

RT: 13.036 min Scan# 1887

Delta R.T. -0.000 min

Lab File: VN077478.D

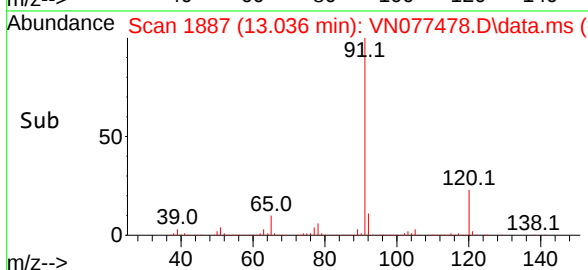
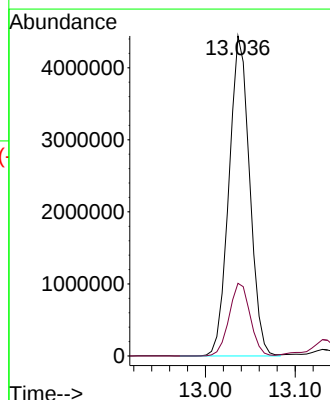
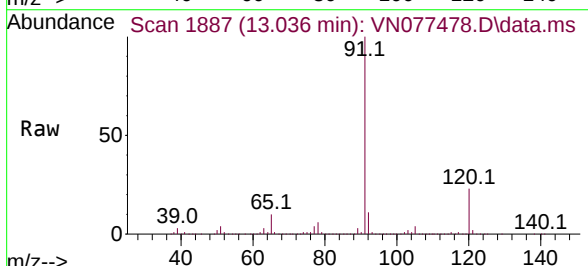
Acq: 25 Apr 2023 18:45

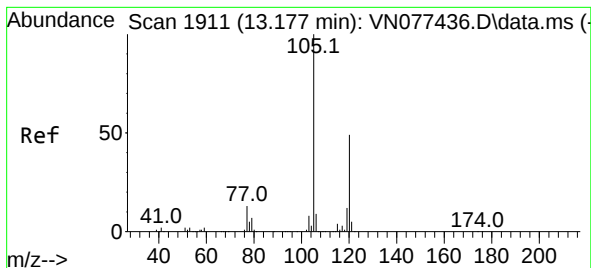
Tgt Ion: 91 Resp: 7099034

Ion Ratio Lower Upper

91 100

120 23.1 11.5 34.4





#80

1,3,5-Trimethylbenzene

Concen: 14.439 ug/l

RT: 13.172 min Scan# 1911

Delta R.T. -0.005 min

Lab File: VN077478.D

Acq: 25 Apr 2023 18:45

Instrument :

MSVOA_N

ClientSampleId :

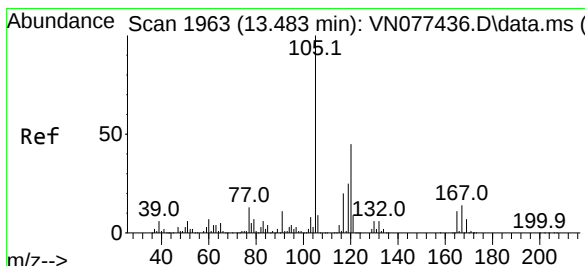
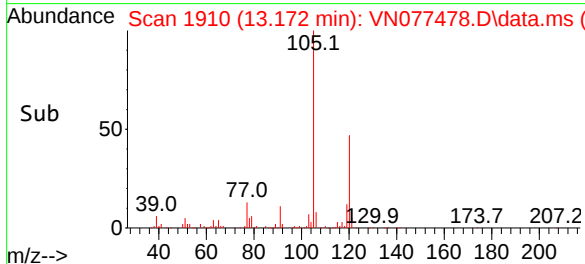
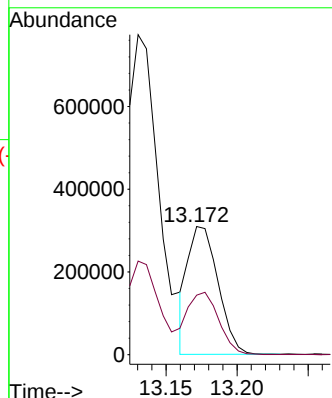
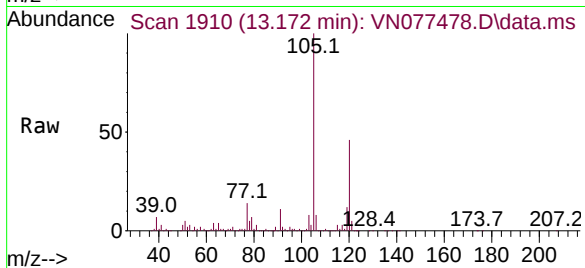
MW-4

Tgt Ion:105 Resp: 454487

Ion Ratio Lower Upper

105 100

120 54.2 24.1 72.3



#84

1,2,4-Trimethylbenzene

Concen: 55.658 ug/l

RT: 13.483 min Scan# 1963

Delta R.T. -0.000 min

Lab File: VN077478.D

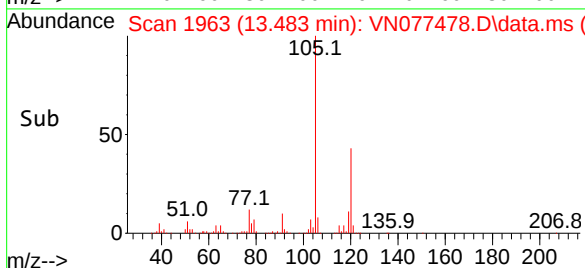
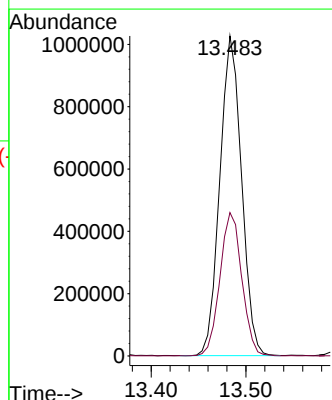
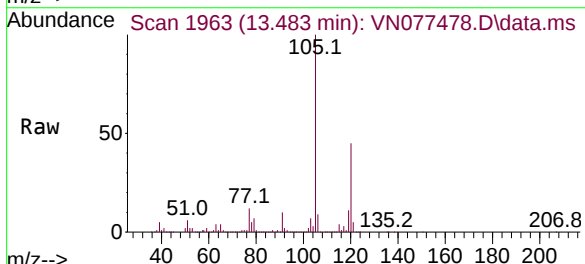
Acq: 25 Apr 2023 18:45

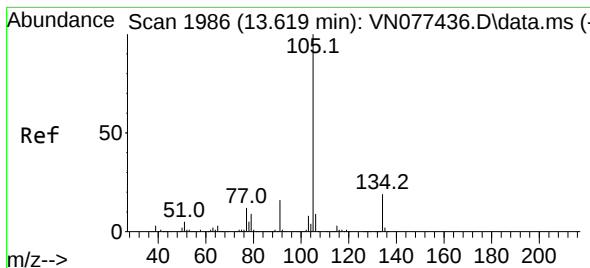
Tgt Ion:105 Resp: 1636128

Ion Ratio Lower Upper

105 100

120 45.1 22.0 66.0





#85

sec-Butylbenzene

Concen: 17.373 ug/l

RT: 13.619 min Scan# 1986

Delta R.T. -0.000 min

Lab File: VN077478.D

Acq: 25 Apr 2023 18:45

Instrument :

MSVOA_N

ClientSampleId :

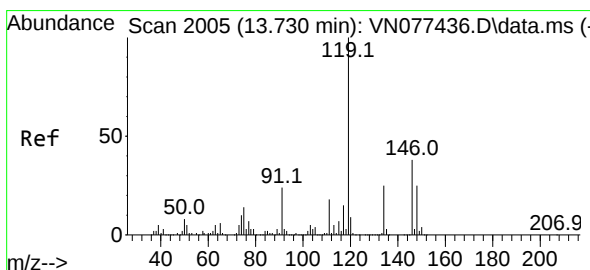
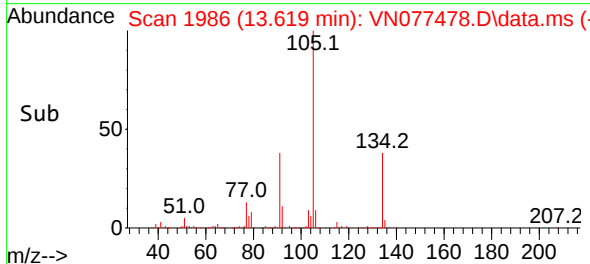
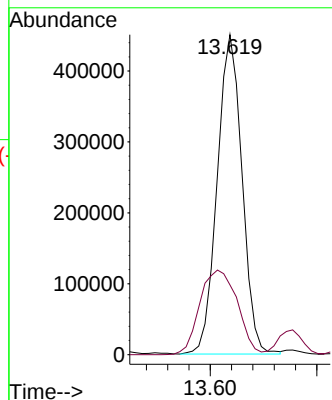
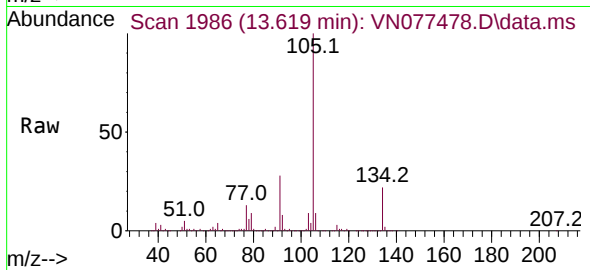
MW-4

Tgt Ion:105 Resp: 728884

Ion Ratio Lower Upper

105 100

134 40.1 9.8 29.3#



#86

p-Isopropyltoluene

Concen: 4.674 ug/l

RT: 13.730 min Scan# 2005

Delta R.T. -0.000 min

Lab File: VN077478.D

Acq: 25 Apr 2023 18:45

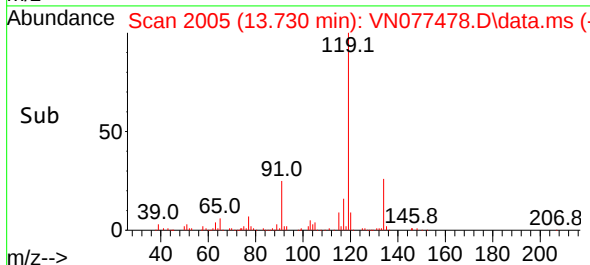
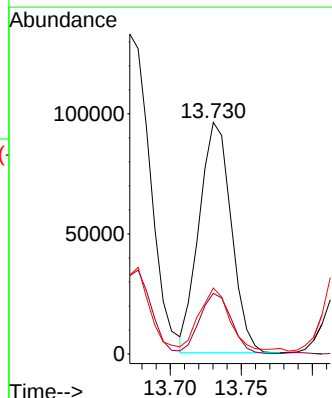
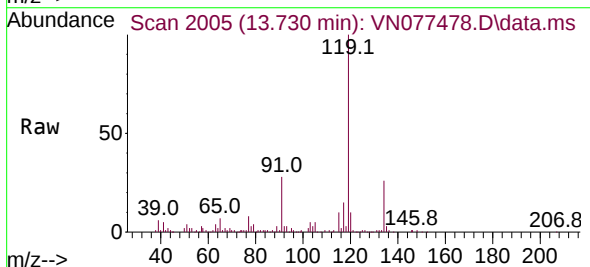
Tgt Ion:119 Resp: 150871

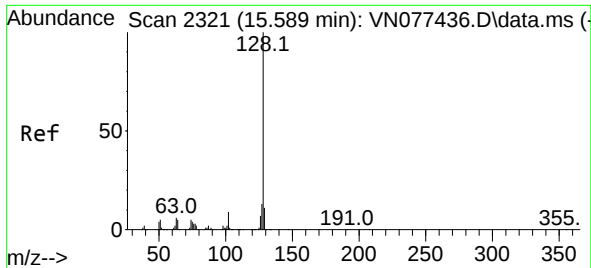
Ion Ratio Lower Upper

119 100

134 25.5 12.6 37.8

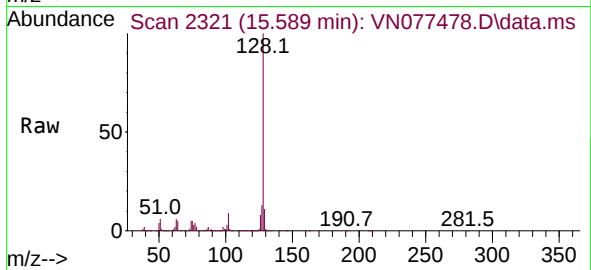
91 26.1 12.4 37.2





#95
Naphthalene
Concen: 88.137 ug/l
RT: 15.589 min Scan# 21
Delta R.T. -0.000 min
Lab File: VN077478.D
Acq: 25 Apr 2023 18:45

Instrument :
MSVOA_N
ClientSampleId :
MW-4



Tgt Ion:128 Resp: 2327141
Ion Ratio Lower Upper
128 100
127 12.7 10.0 15.0
129 10.8 8.7 13.1

