

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN042023\
 Data File : VN077409.D
 Acq On : 20 Apr 2023 18:47
 Operator : JC\MD
 Sample : 02386-09
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 SPA-3WC-23-04

Quant Time: Apr 21 02:41:36 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N040523W.M
 Quant Title : SW846 8260
 QLast Update : Thu Apr 06 08:27:03 2023
 Response via : Initial Calibration

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

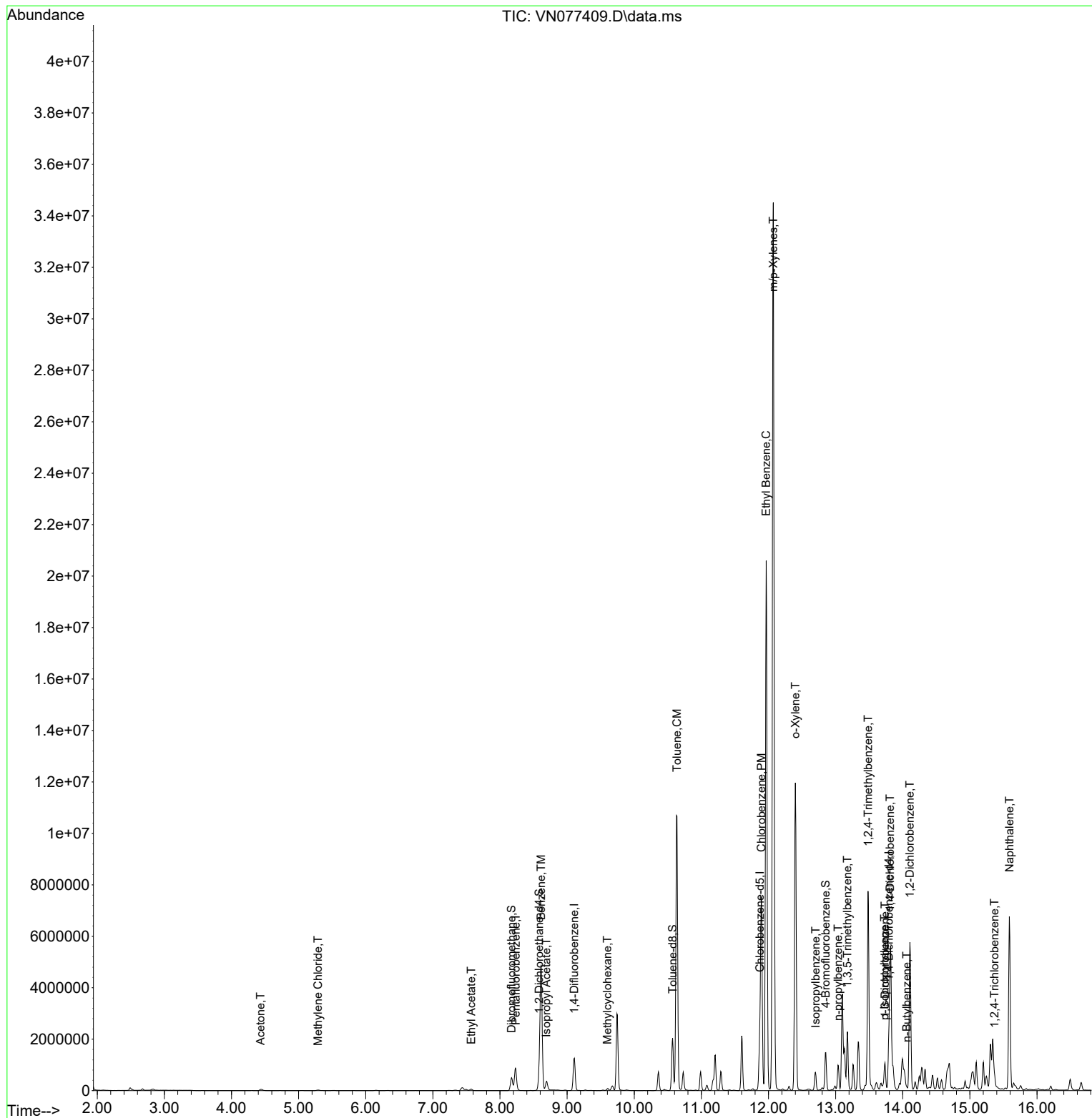
Internal Standards						
1) Pentafluorobenzene	8.237	168	622790	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.107	114	1183805	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.872	117	1082162	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.795	152	472958	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.584	65	396969	46.637	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	93.280%		
35) Dibromofluoromethane	8.172	113	356238	47.007	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	94.020%		
50) Toluene-d8	10.572	98	1442997	47.299	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	94.600%		
62) 4-Bromofluorobenzene	12.854	95	518516	51.103	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	102.200%		
Target Compounds					Qvalue	
16) Acetone	4.431	43	95543	30.444	ug/l	90
20) Methylene Chloride	5.290	84	20216	2.281	ug/l	91
37) Ethyl Acetate	7.572	43	84545	8.431	ug/l	97
39) Methylcyclohexane	9.601	83	36524	2.417	ug/l #	82
40) Benzene	8.613	78	5256597	150.358	ug/l	99
43) Isopropyl Acetate	8.689	43	388053	20.971	ug/l #	92
52) Toluene	10.636	92	5077696	221.897	ug/l	100
65) Chlorobenzene	11.895	112	4389787	184.251	ug/l	97
67) Ethyl Benzene	11.966	91	14992229	341.006	ug/l	93
68) m/p-Xylenes	12.072	106	11348711	656.957	ug/l	79
69) o-Xylene	12.401	106	3509358	205.925	ug/l	100
73) Isopropylbenzene	12.701	105	507361	11.044	ug/l	99
78) n-propylbenzene	13.036	91	787845	15.522	ug/l	98
80) 1,3,5-Trimethylbenzene	13.177	105	1249782	34.062	ug/l	100
84) 1,2,4-Trimethylbenzene	13.483	105	4498392	124.099	ug/l	100
86) p-Isopropyltoluene	13.730	119	251465	7.030	ug/l	98
87) 1,3-Dichlorobenzene	13.736	146	267548	15.482	ug/l	99
88) 1,4-Dichlorobenzene	13.813	146	1243488	72.969	ug/l	100
89) n-Butylbenzene	14.060	91	64101	2.159	ug/l #	78
91) 1,2-Dichlorobenzene	14.107	146	2433804	140.784	ug/l	99
93) 1,2,4-Trichlorobenzene	15.365	180	86018	13.784	ug/l	94
95) Naphthalene	15.589	128	2546187	108.611	ug/l	100

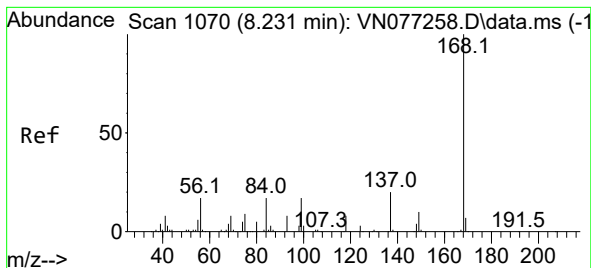
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Apr 06 08:27:03 2023
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.237 min Scan# 1

Delta R.T. 0.006 min

Lab File: VN077409.D

Acq: 20 Apr 2023 18:47

Instrument :

MSVOA_N

ClientSampleId :

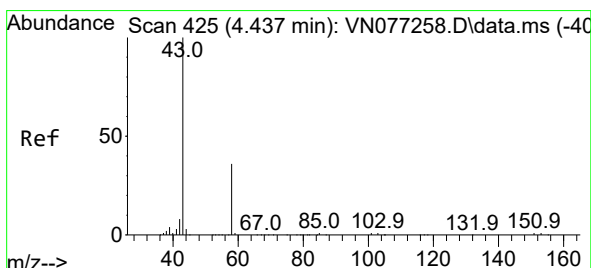
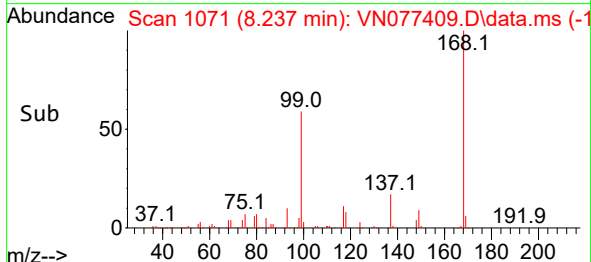
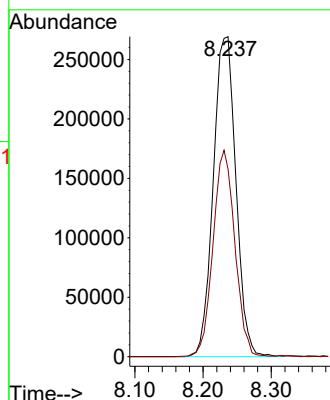
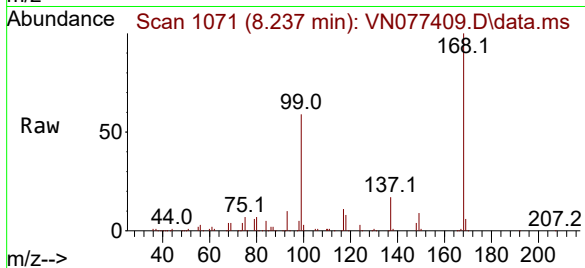
SPA-3WC-23-04

Tgt Ion:168 Resp: 622790

Ion Ratio Lower Upper

168 100

99 58.5 50.6 75.8



#16

Acetone

Concen: 30.444 ug/l

RT: 4.431 min Scan# 424

Delta R.T. -0.006 min

Lab File: VN077409.D

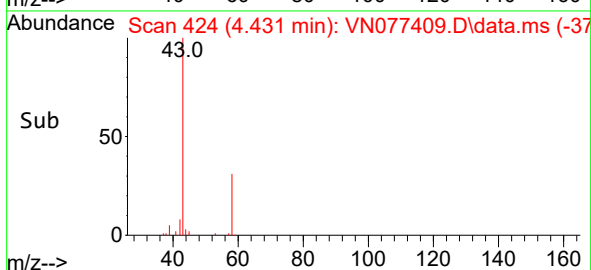
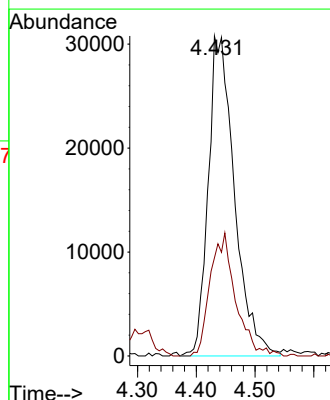
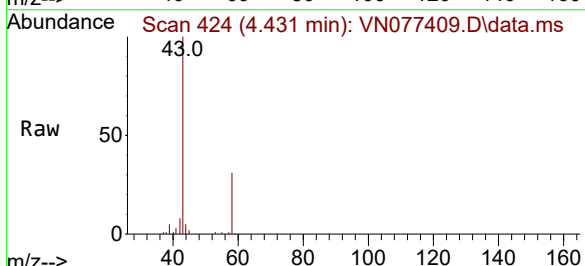
Acq: 20 Apr 2023 18:47

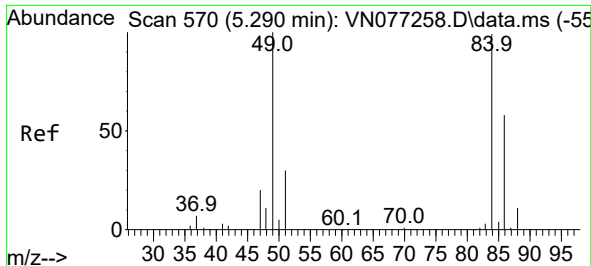
Tgt Ion: 43 Resp: 95543

Ion Ratio Lower Upper

43 100

58 30.6 29.0 43.6

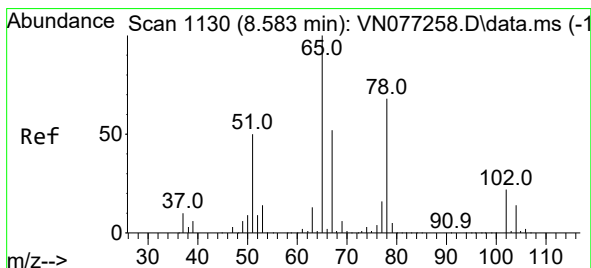
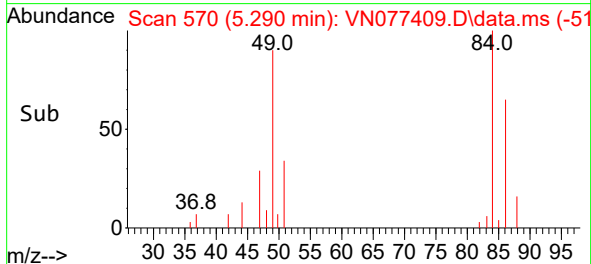
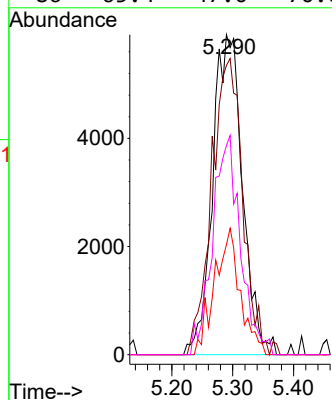
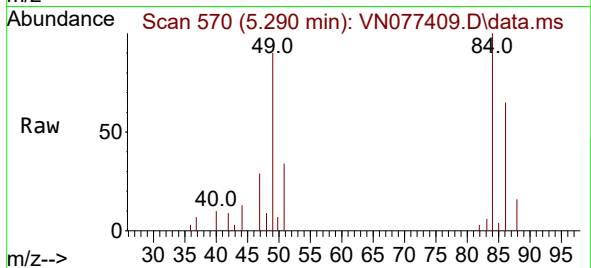




#20
Methylene Chloride
Concen: 2.281 ug/l
RT: 5.290 min Scan# 51
Delta R.T. -0.000 min
Lab File: VN077409.D
Acq: 20 Apr 2023 18:47

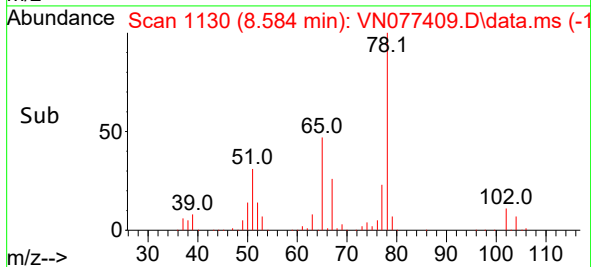
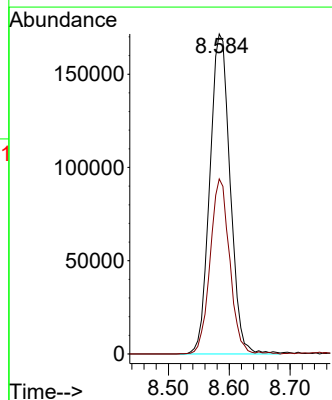
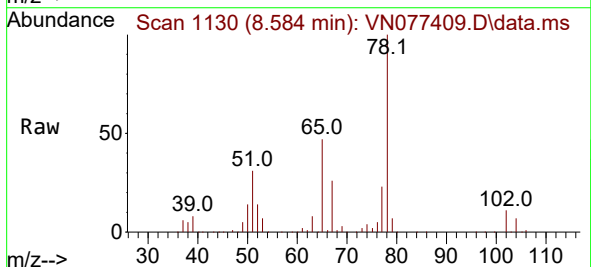
Instrument :
MSVOA_N
ClientSampleId :
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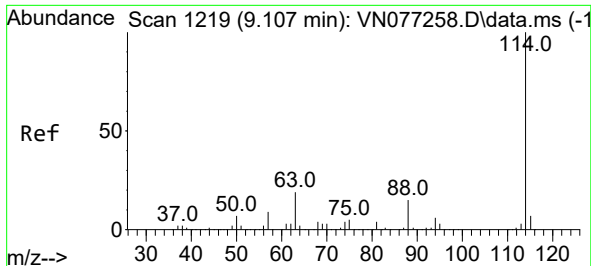
Tgt Ion: 84	Resp: 20216
Ion Ratio	Lower Upper
84 100	
49 90.4	80.6 121.0
51 34.3	24.4 36.6
86 65.4	47.0 70.6



#33
1,2-Dichloroethane-d4
Concen: 46.637 ug/l
RT: 8.584 min Scan# 1130
Delta R.T. 0.001 min
Lab File: VN077409.D
Acq: 20 Apr 2023 18:47

Tgt Ion: 65	Resp: 396969
Ion Ratio	Lower Upper
65 100	
67 52.4	0.0 108.8

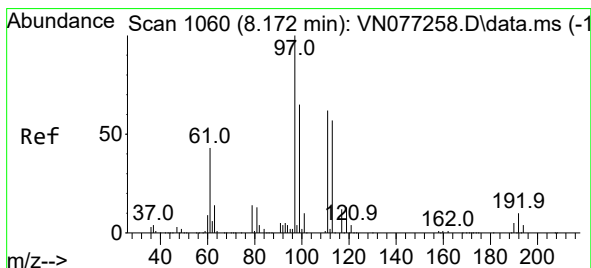
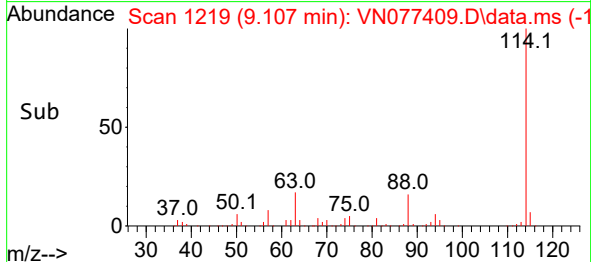
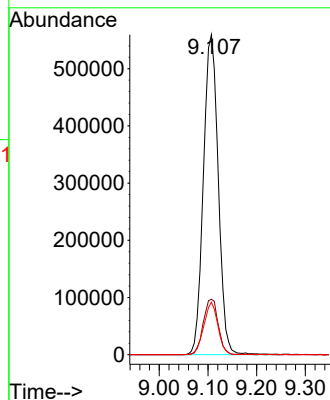
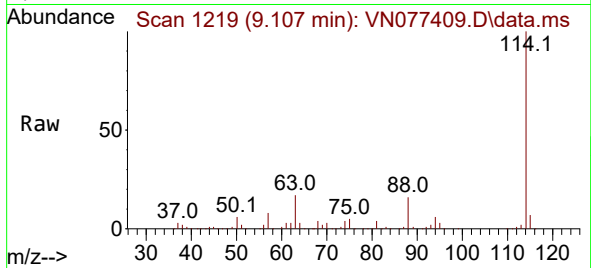




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.107 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN077409.D
Acq: 20 Apr 2023 18:47

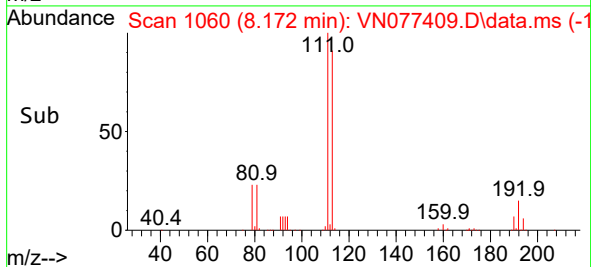
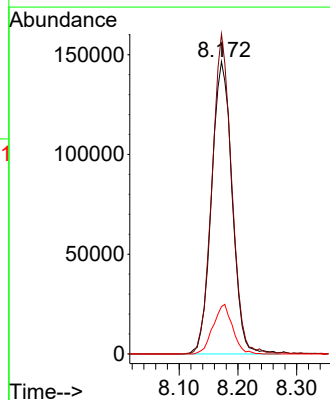
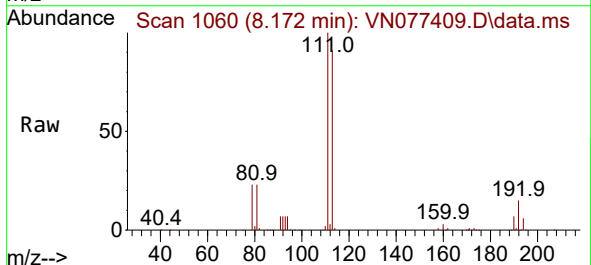
Instrument :
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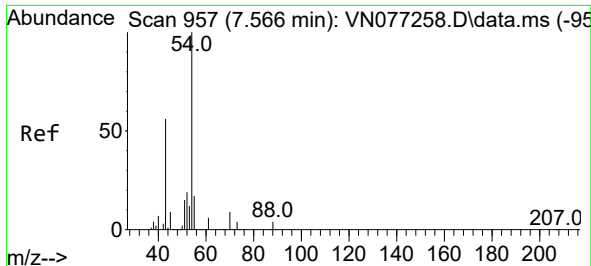
Tgt Ion:114 Resp: 1183805
Ion Ratio Lower Upper
114 100
63 17.3 0.0 37.8
88 16.4 0.0 29.4



#35
Dibromofluoromethane
Concen: 47.007 ug/l
RT: 8.172 min Scan# 1060
Delta R.T. -0.000 min
Lab File: VN077409.D
Acq: 20 Apr 2023 18:47

Tgt Ion:113 Resp: 356238
Ion Ratio Lower Upper
113 100
111 104.5 83.4 125.0
192 16.1 13.5 20.3

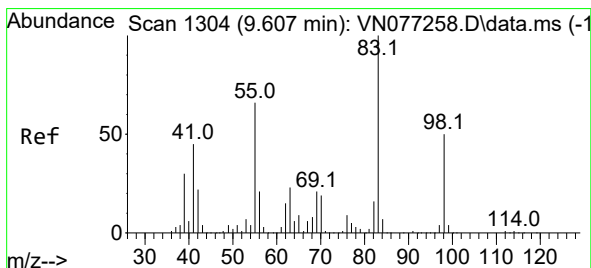
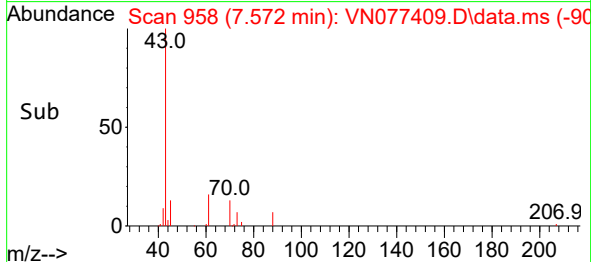
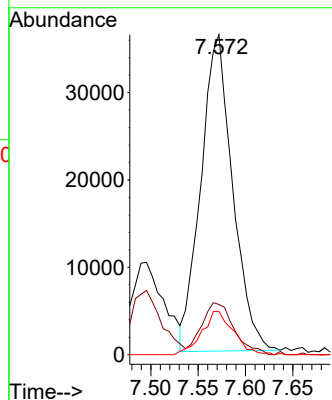
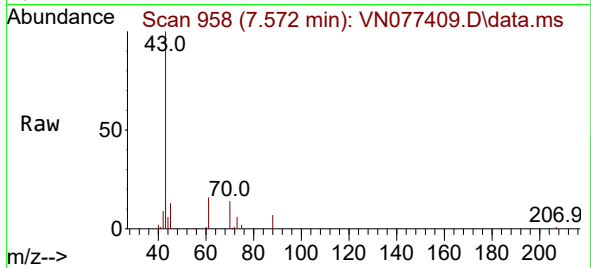




#37
Ethyl Acetate
Concen: 8.431 ug/l
RT: 7.572 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN077409.D
Acq: 20 Apr 2023 18:47

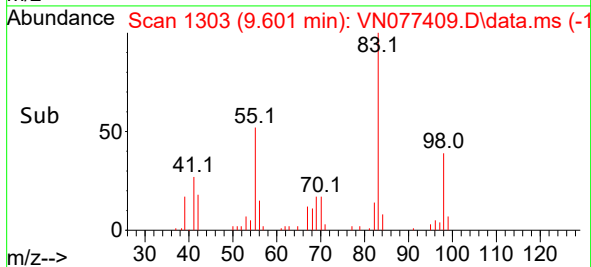
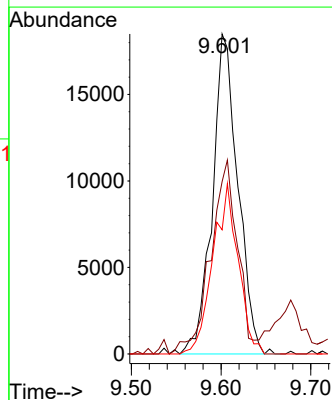
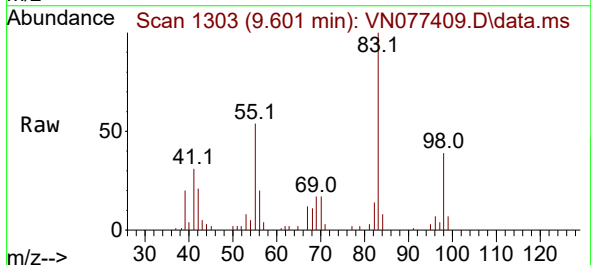
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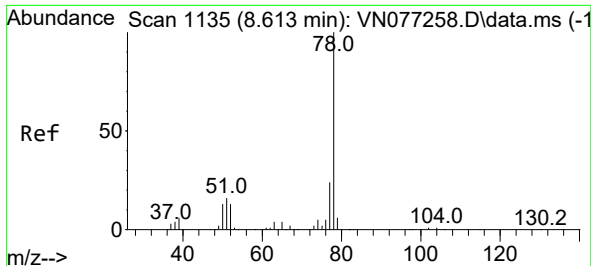
Tgt Ion: 43 Resp: 84545
Ion Ratio Lower Upper
43 100
61 16.7 12.2 18.2
70 13.6 10.0 15.0



#39
Methylcyclohexane
Concen: 2.417 ug/l
RT: 9.601 min Scan# 1303
Delta R.T. -0.006 min
Lab File: VN077409.D
Acq: 20 Apr 2023 18:47

Tgt Ion: 83 Resp: 36524
Ion Ratio Lower Upper
83 100
55 50.0 52.4 78.6#
98 38.8 39.8 59.6#

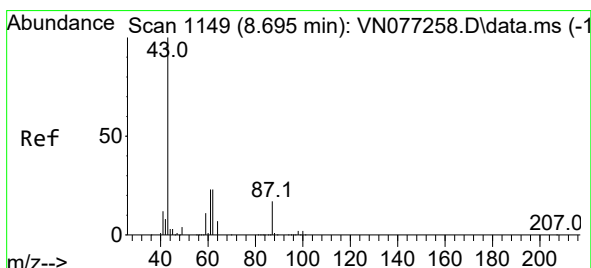
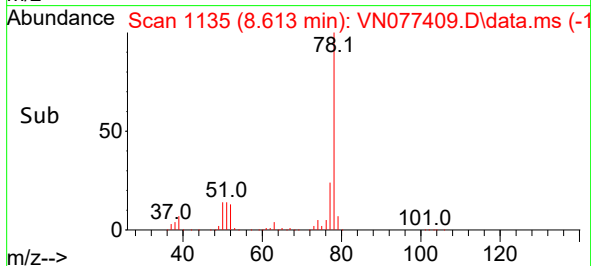
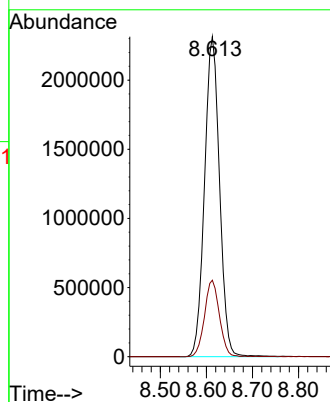
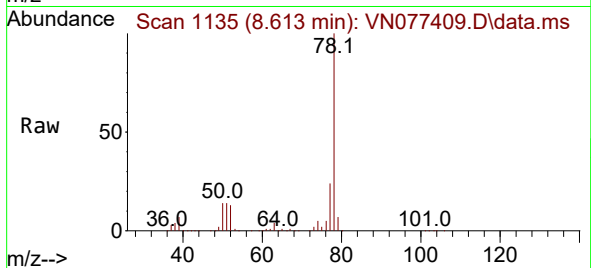




#40
Benzene
Concen: 150.358 ug/l
RT: 8.613 min Scan# 1135
Delta R.T. -0.000 min
Lab File: VN077409.D
Acq: 20 Apr 2023 18:47

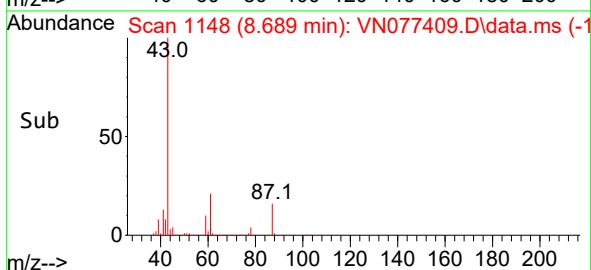
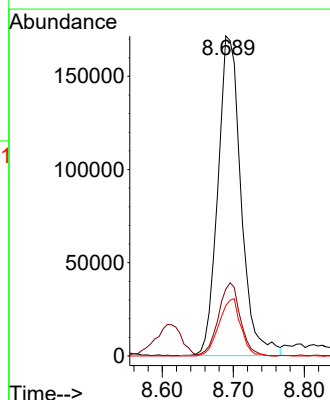
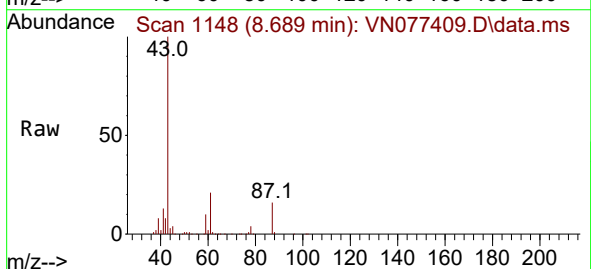
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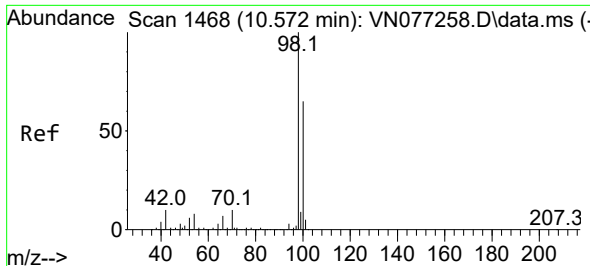
Tgt Ion: 78 Resp: 5256597
Ion Ratio Lower Upper
78 100
77 23.9 19.5 29.3



#43
Isopropyl Acetate
Concen: 20.971 ug/l
RT: 8.689 min Scan# 1148
Delta R.T. -0.006 min
Lab File: VN077409.D
Acq: 20 Apr 2023 18:47

Tgt Ion: 43 Resp: 388053
Ion Ratio Lower Upper
43 100
61 21.6 22.7 34.1#
87 16.8 13.6 20.4

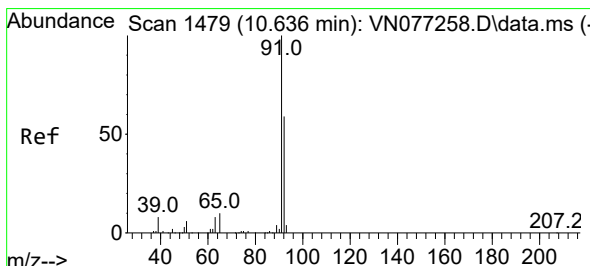
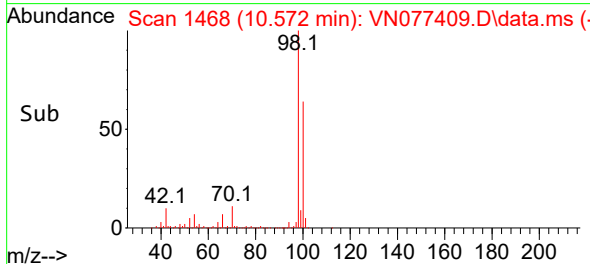
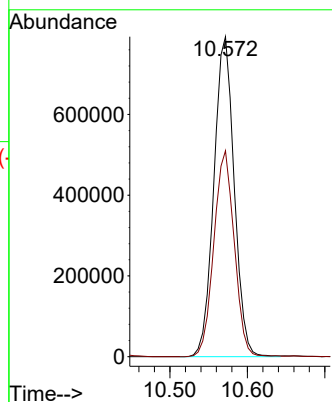
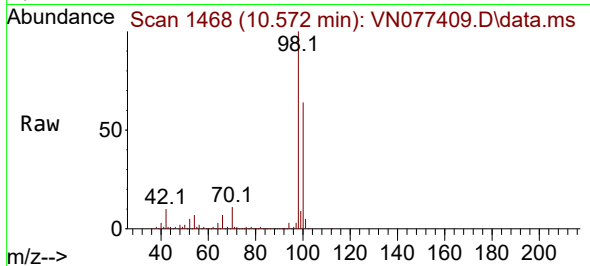




#50
Toluene-d8
Concen: 47.299 ug/l
RT: 10.572 min Scan# 1468
Delta R.T. -0.000 min
Lab File: VN077409.D
Acq: 20 Apr 2023 18:47

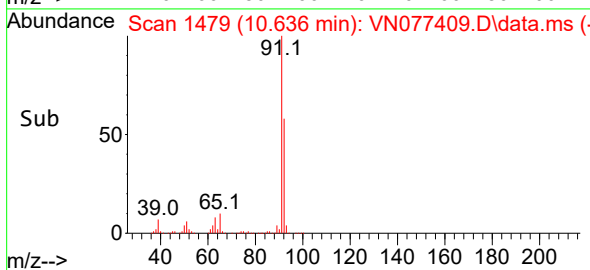
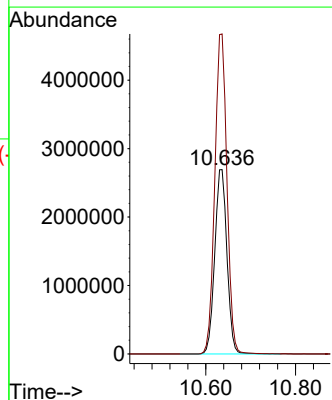
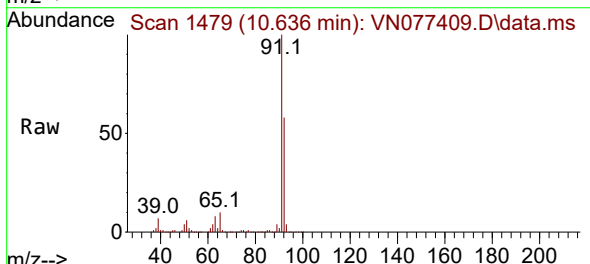
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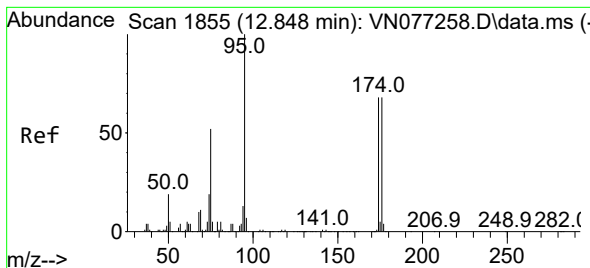
Tgt Ion: 98 Resp: 1442997
Ion Ratio Lower Upper
98 100
100 64.7 51.3 76.9



#52
Toluene
Concen: 221.897 ug/l
RT: 10.636 min Scan# 1479
Delta R.T. 0.000 min
Lab File: VN077409.D
Acq: 20 Apr 2023 18:47

Tgt Ion: 92 Resp: 5077696
Ion Ratio Lower Upper
92 100
91 173.1 138.0 207.0

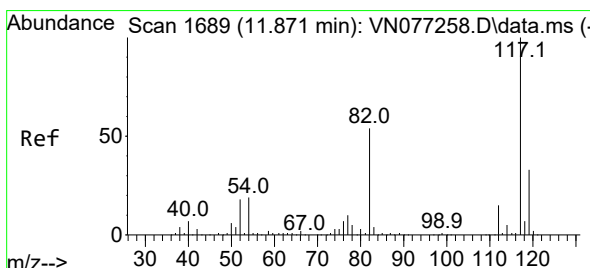
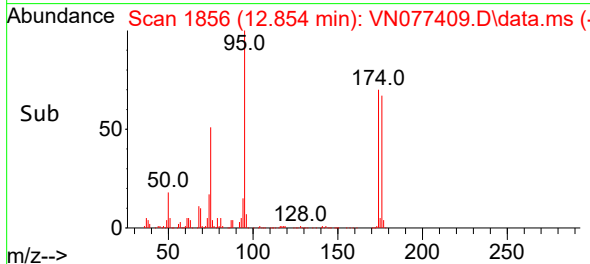
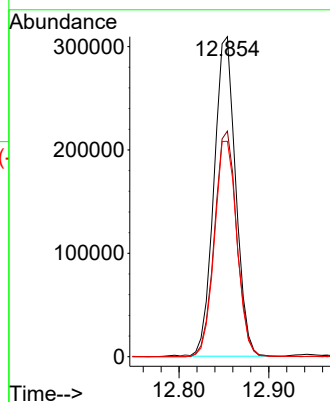
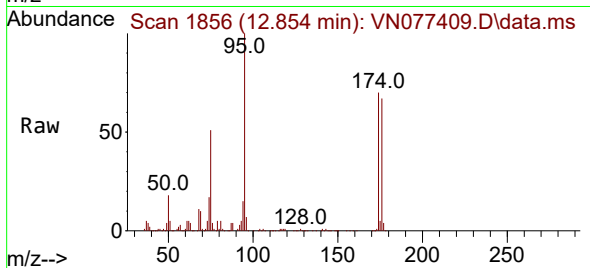




#62
4-Bromofluorobenzene
Concen: 51.103 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. 0.006 min
Lab File: VN077409.D
Acq: 20 Apr 2023 18:47

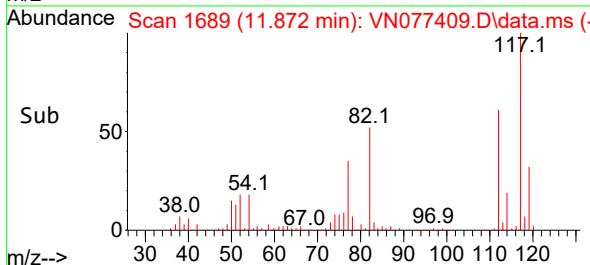
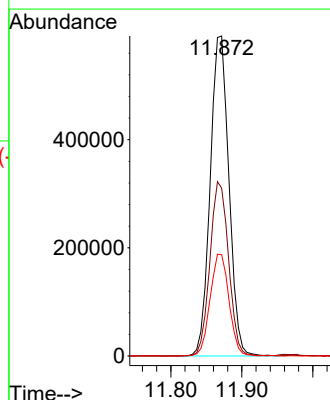
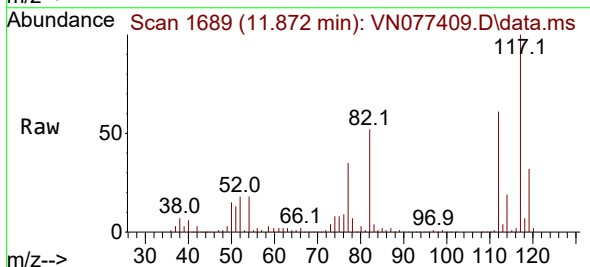
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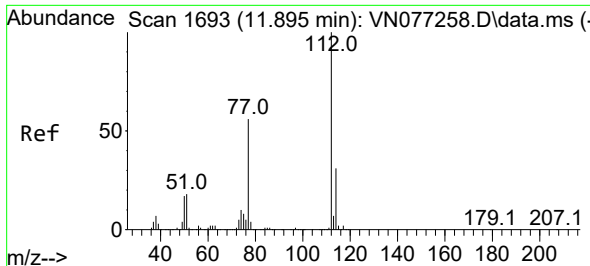
Tgt Ion: 95 Resp: 518516
Ion Ratio Lower Upper
95 100
174 72.4 0.0 146.8
176 69.9 0.0 139.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.872 min Scan# 1689
Delta R.T. 0.001 min
Lab File: VN077409.D
Acq: 20 Apr 2023 18:47

Tgt Ion: 117 Resp: 1082162
Ion Ratio Lower Upper
117 100
82 52.5 42.9 64.3
119 31.7 26.2 39.4

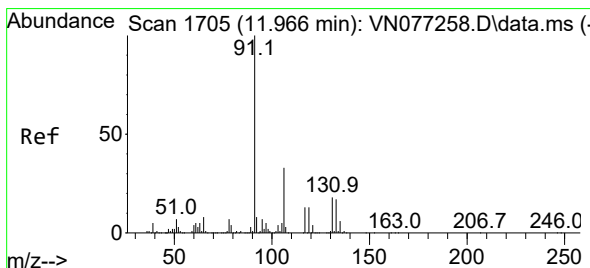
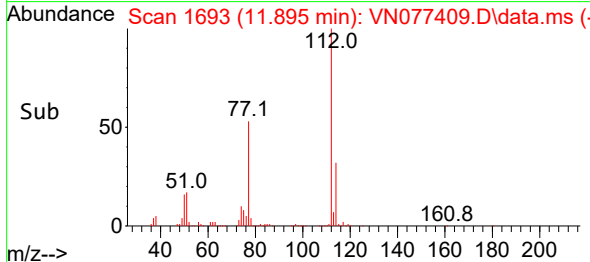
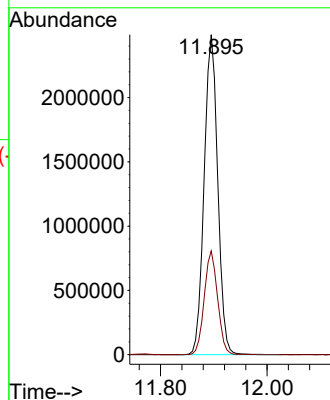
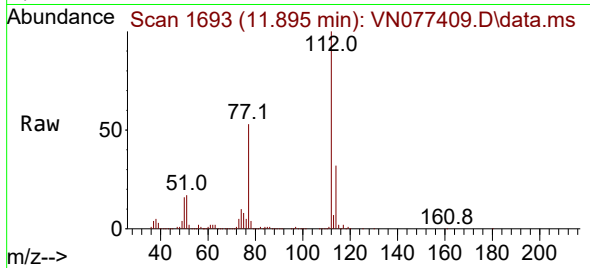




#65
Chlorobenzene
Concen: 184.251 ug/l
RT: 11.895 min Scan# 1693
Delta R.T. 0.000 min
Lab File: VN077409.D
Acq: 20 Apr 2023 18:47

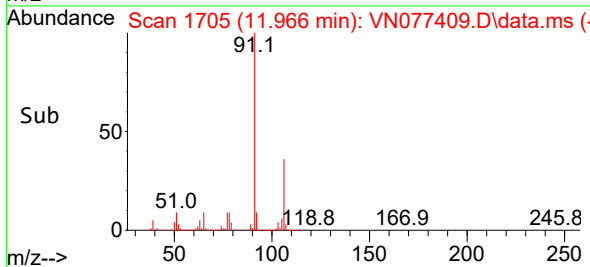
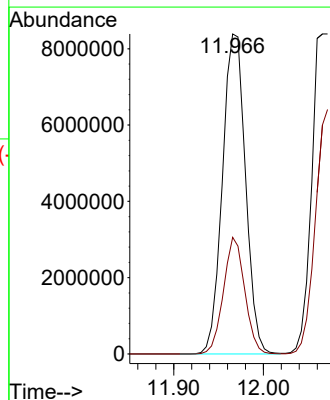
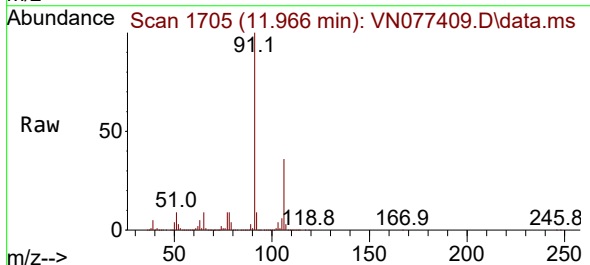
Instrument :
MSVOA_N
ClientSampleId :
SPA-3WC-23-04

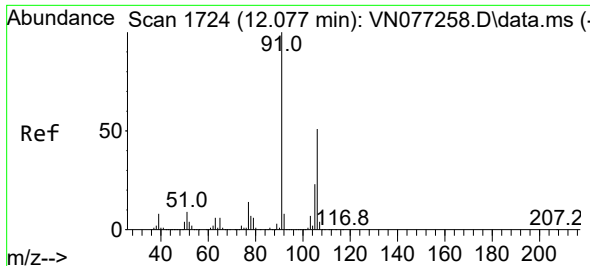
Tgt Ion:112 Resp: 4389787
Ion Ratio Lower Upper
112 100
114 32.4 24.6 36.8



#67
Ethyl Benzene
Concen: 341.006 ug/l
RT: 11.966 min Scan# 1705
Delta R.T. -0.000 min
Lab File: VN077409.D
Acq: 20 Apr 2023 18:47

Tgt Ion: 91 Resp:14992229
Ion Ratio Lower Upper
91 100
106 36.5 26.2 39.2

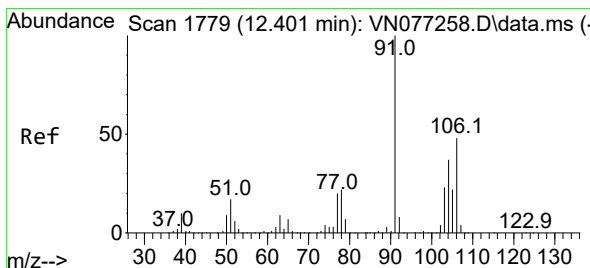
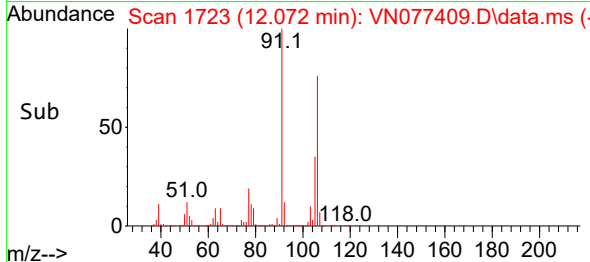
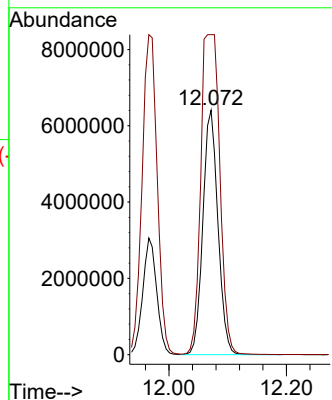
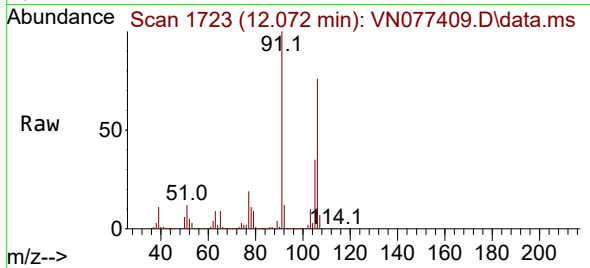




#68
m/p-Xylenes
Concen: 656.957 ug/l
RT: 12.072 min Scan# 1723
Delta R.T. -0.005 min
Lab File: VN077409.D
Acq: 20 Apr 2023 18:47

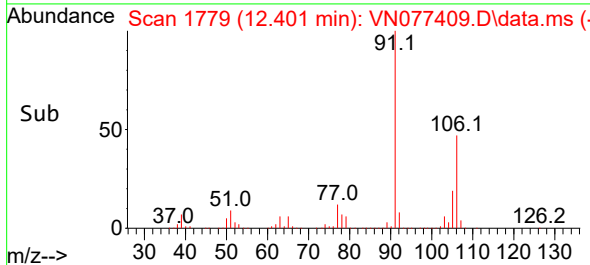
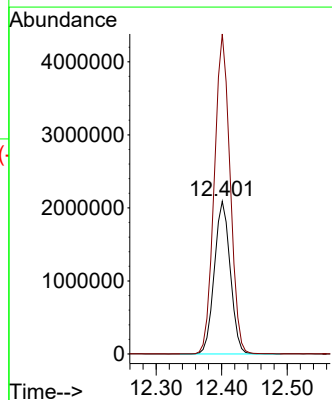
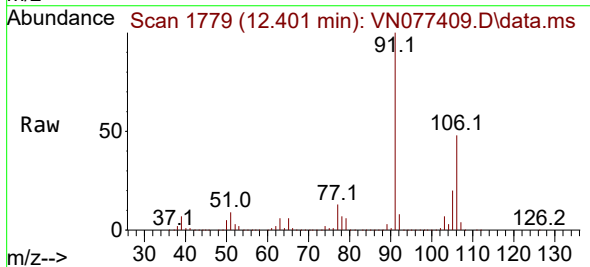
Instrument :
MSVOA_N
ClientSampleId :
SPA-3WC-23-04

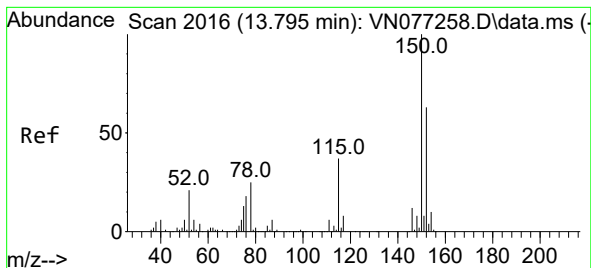
Tgt Ion:106 Resp:11348711
Ion Ratio Lower Upper
106 100
91 166.0 158.7 238.1



#69
o-Xylene
Concen: 205.925 ug/l
RT: 12.401 min Scan# 1779
Delta R.T. -0.000 min
Lab File: VN077409.D
Acq: 20 Apr 2023 18:47

Tgt Ion:106 Resp: 3509358
Ion Ratio Lower Upper
106 100
91 208.6 104.0 312.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.795 min Scan# 2016

Delta R.T. 0.000 min

Lab File: VN077409.D

Acq: 20 Apr 2023 18:47

Instrument :

MSVOA_N

ClientSampleId :

SPA-3WC-23-04

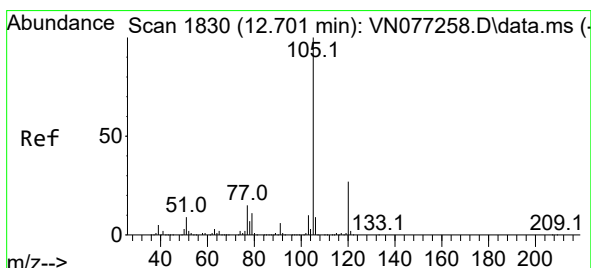
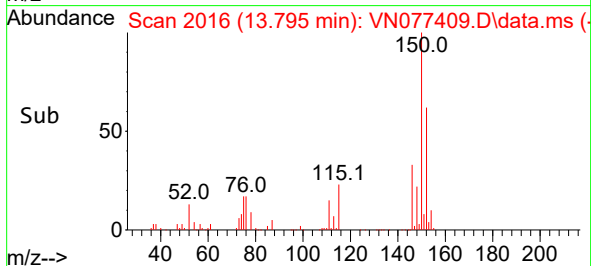
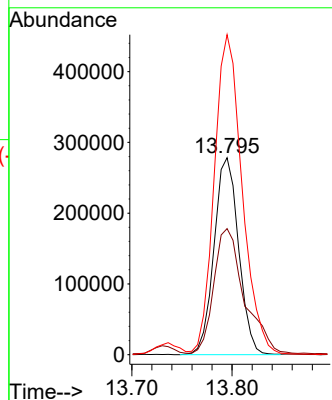
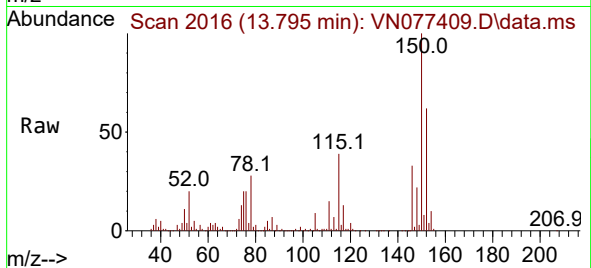
Tgt Ion:152 Resp: 472958

Ion Ratio Lower Upper

152 100

115 81.3 32.1 96.3

150 185.0 0.0 354.8



#73

Isopropylbenzene

Concen: 11.044 ug/l

RT: 12.701 min Scan# 1830

Delta R.T. -0.000 min

Lab File: VN077409.D

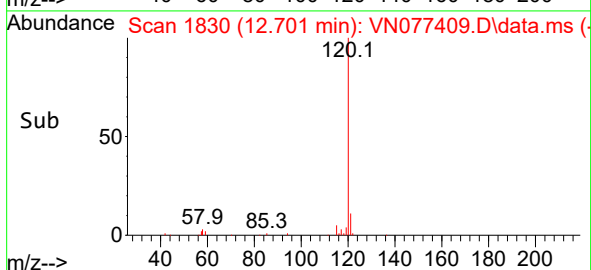
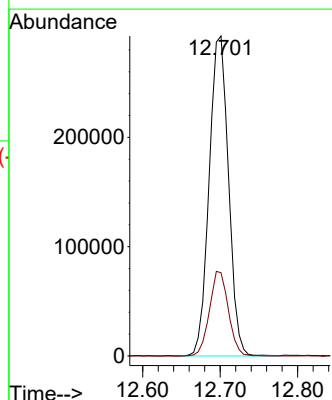
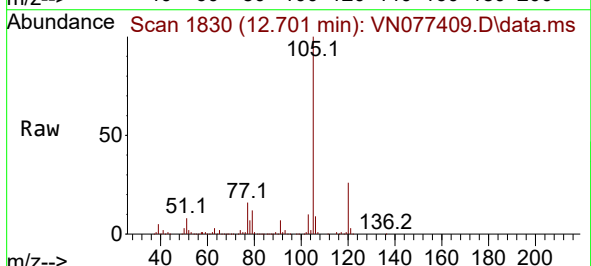
Acq: 20 Apr 2023 18:47

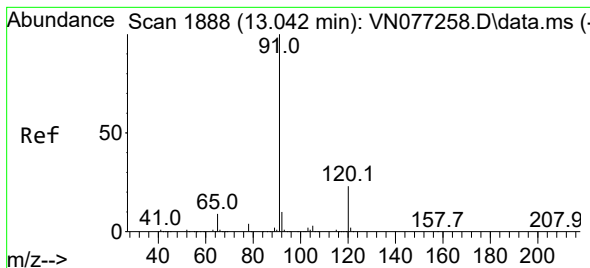
Tgt Ion:105 Resp: 507361

Ion Ratio Lower Upper

105 100

120 25.8 13.2 39.6





#78

n-propylbenzene

Concen: 15.522 ug/l

RT: 13.036 min Scan# 1887

Delta R.T. -0.006 min

Lab File: VN077409.D

Acq: 20 Apr 2023 18:47

Instrument :

MSVOA_N

ClientSampleId :

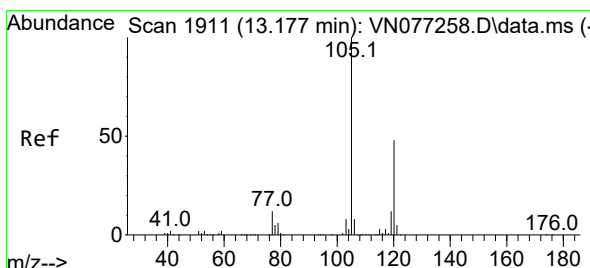
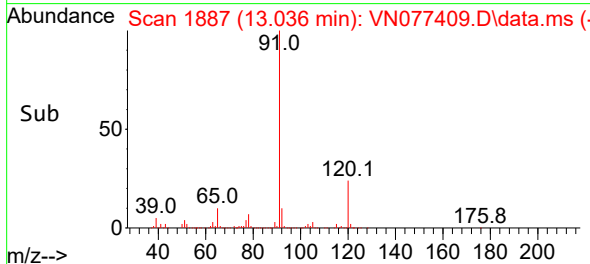
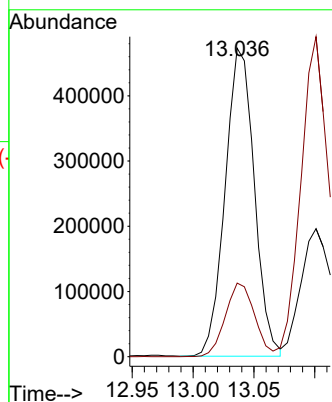
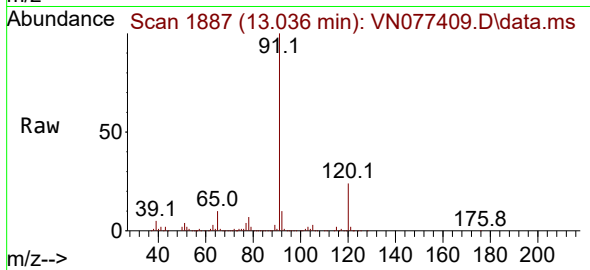
SPA-3WC-23-04

Tgt Ion: 91 Resp: 787845

Ion Ratio Lower Upper

91 100

120 23.9 11.5 34.5



#80

1,3,5-Trimethylbenzene

Concen: 34.062 ug/l

RT: 13.177 min Scan# 1911

Delta R.T. 0.000 min

Lab File: VN077409.D

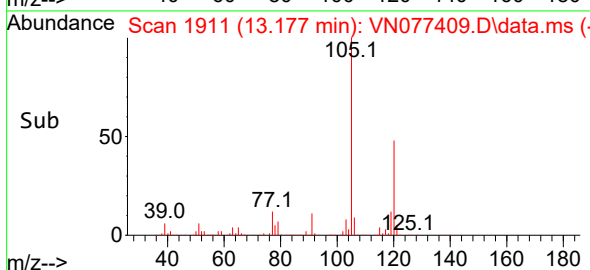
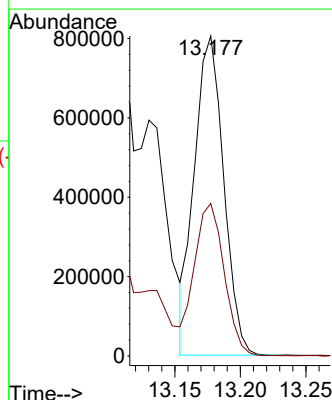
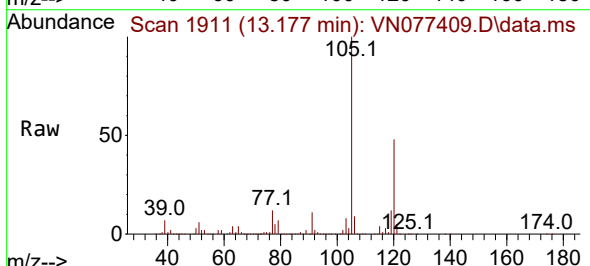
Acq: 20 Apr 2023 18:47

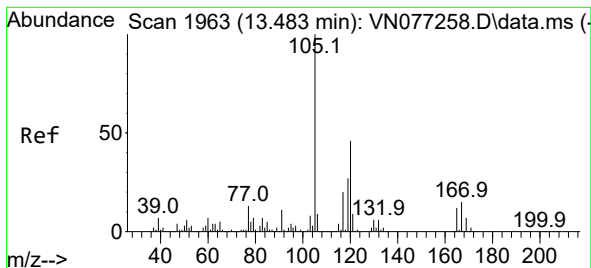
Tgt Ion:105 Resp: 1249782

Ion Ratio Lower Upper

105 100

120 48.7 24.3 73.0





#84

1,2,4-Trimethylbenzene

Concen: 124.099 ug/l

RT: 13.483 min Scan# 1963

Delta R.T. 0.000 min

Lab File: VN077409.D

Acq: 20 Apr 2023 18:47

Instrument :

MSVOA_N

ClientSampleId :

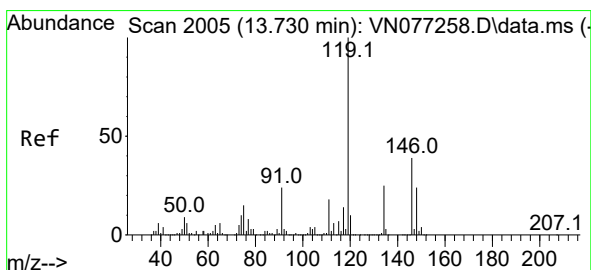
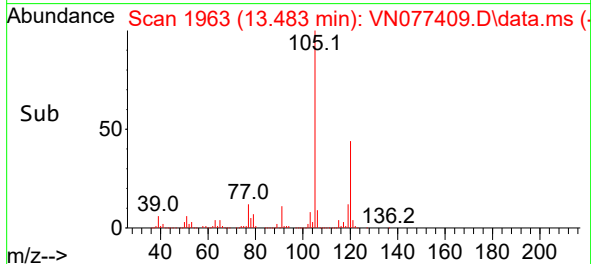
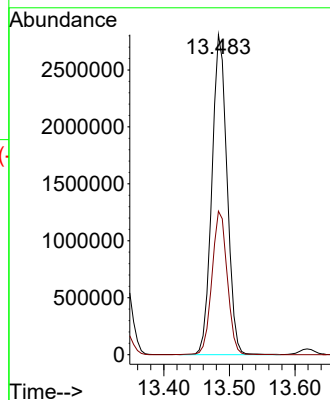
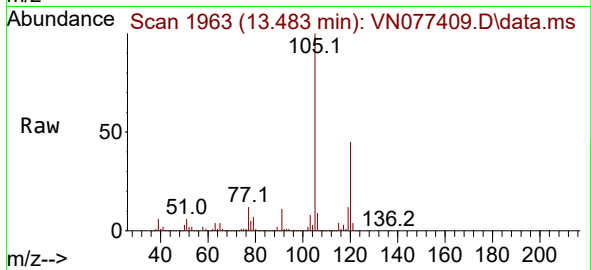
SPA-3WC-23-04

Tgt Ion:105 Resp: 4498392

Ion Ratio Lower Upper

105 100

120 45.3 22.5 67.5



#86

p-Isopropyltoluene

Concen: 7.030 ug/l

RT: 13.730 min Scan# 2005

Delta R.T. 0.000 min

Lab File: VN077409.D

Acq: 20 Apr 2023 18:47

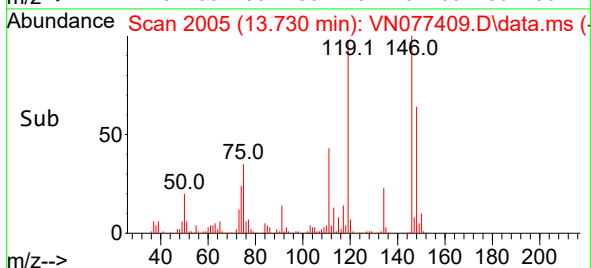
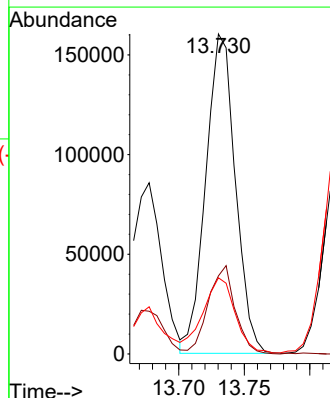
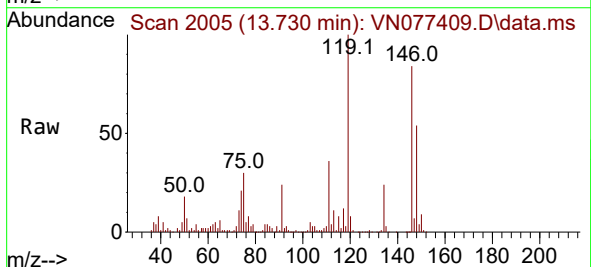
Tgt Ion:119 Resp: 251465

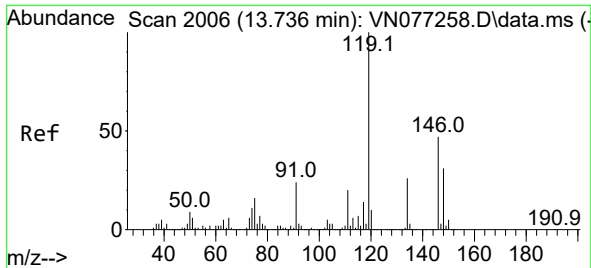
Ion Ratio Lower Upper

119 100

134 25.1 12.9 38.6

91 25.5 12.3 36.8

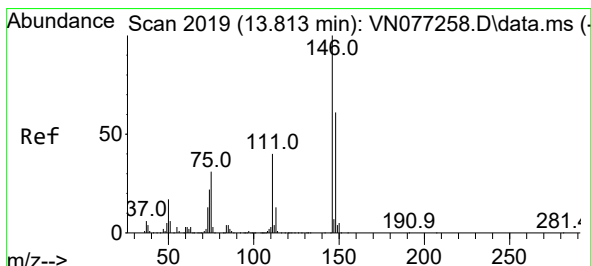
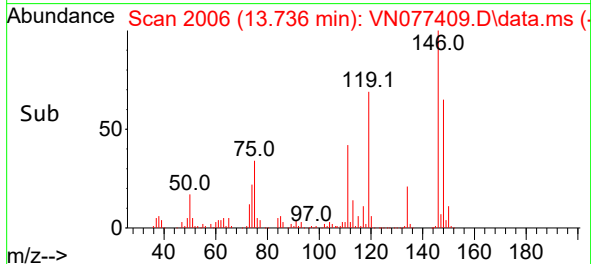
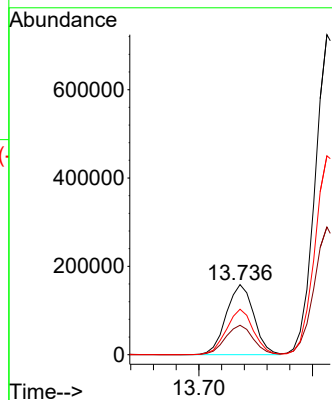
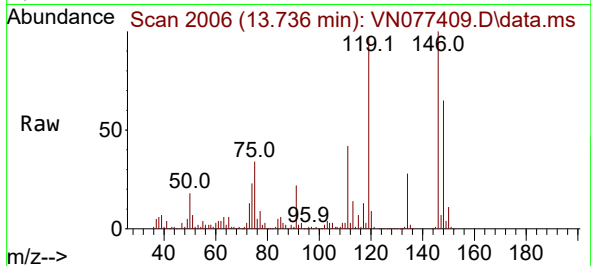




#87
1,3-Dichlorobenzene
Concen: 15.482 ug/l
RT: 13.736 min Scan# 2006
Delta R.T. 0.000 min
Lab File: VN077409.D
Acq: 20 Apr 2023 18:47

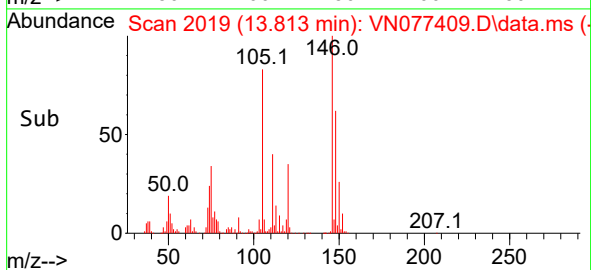
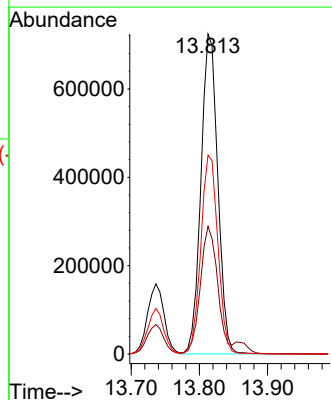
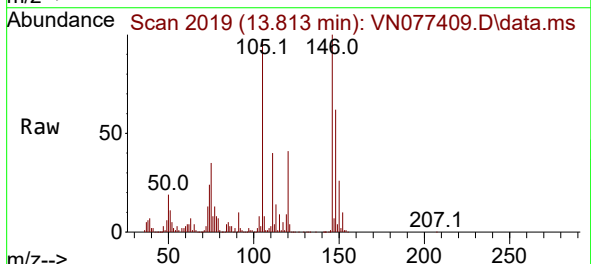
Instrument :
MSVOA_N
ClientSampleId :
SPA-3WC-23-04

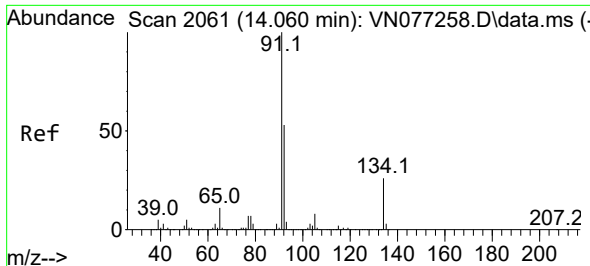
Tgt Ion:146 Resp: 267548
Ion Ratio Lower Upper
146 100
111 42.6 21.8 65.4
148 63.5 31.7 95.1



#88
1,4-Dichlorobenzene
Concen: 72.969 ug/l
RT: 13.813 min Scan# 2019
Delta R.T. -0.000 min
Lab File: VN077409.D
Acq: 20 Apr 2023 18:47

Tgt Ion:146 Resp: 1243488
Ion Ratio Lower Upper
146 100
111 40.7 20.4 61.2
148 63.1 31.6 95.0

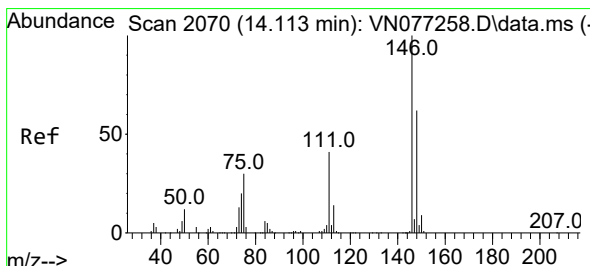
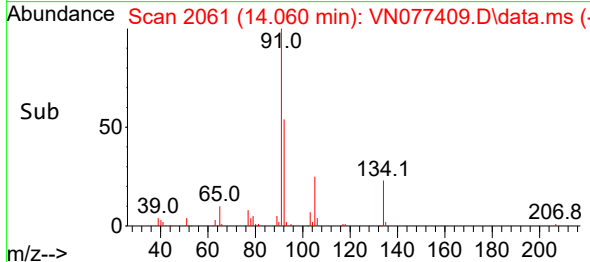
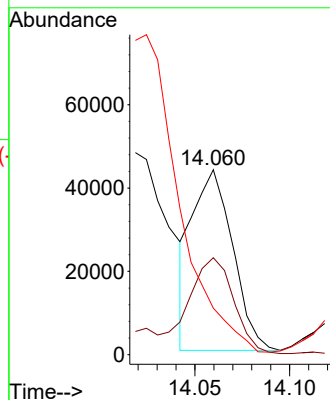
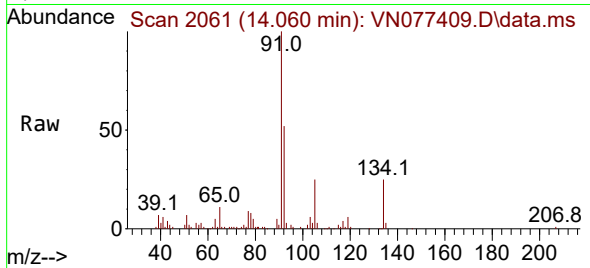




#89
n-Butylbenzene
Concen: 2.159 ug/l
RT: 14.060 min Scan# 2061
Delta R.T. -0.000 min
Lab File: VN077409.D
Acq: 20 Apr 2023 18:47

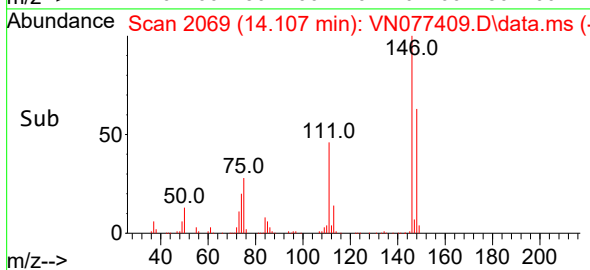
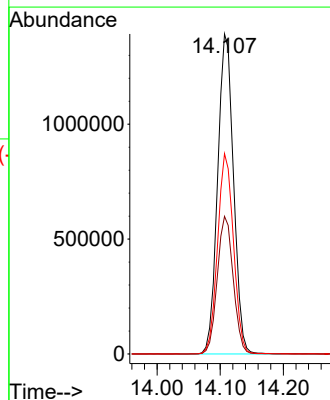
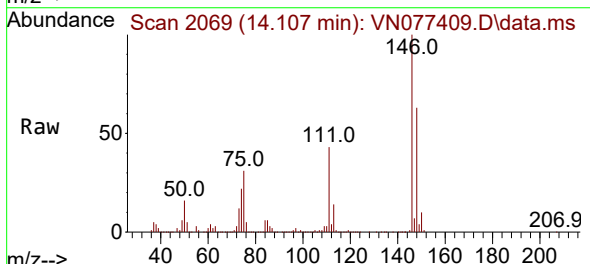
Instrument :
MSVOA_N
ClientSampleId :
SPA-3WC-23-04

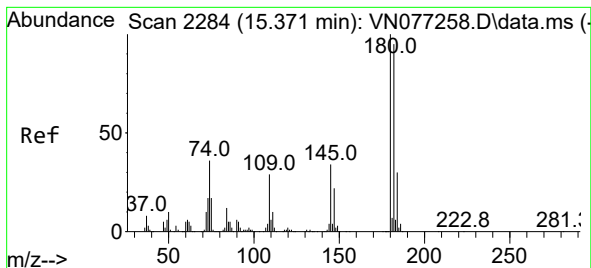
Tgt Ion: 91 Resp: 64101
Ion Ratio Lower Upper
91 100
92 59.8 26.7 80.0
134 0.0 12.8 38.3#



#91
1,2-Dichlorobenzene
Concen: 140.784 ug/l
RT: 14.107 min Scan# 2069
Delta R.T. -0.006 min
Lab File: VN077409.D
Acq: 20 Apr 2023 18:47

Tgt Ion:146 Resp: 2433804
Ion Ratio Lower Upper
146 100
111 43.2 21.9 65.5
148 62.7 31.9 95.5





#93

1,2,4-Trichlorobenzene

Concen: 13.784 ug/l

RT: 15.365 min Scan# 21

Delta R.T. -0.006 min

Lab File: VN077409.D

Acq: 20 Apr 2023 18:47

Instrument :

MSVOA_N

ClientSampleId :

SPA-3WC-23-04

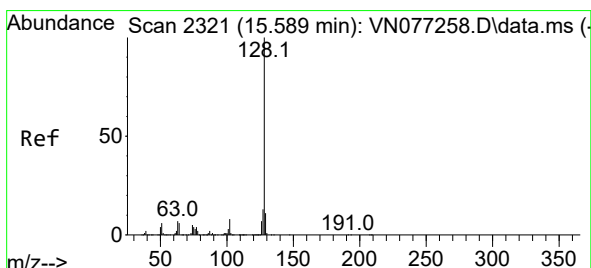
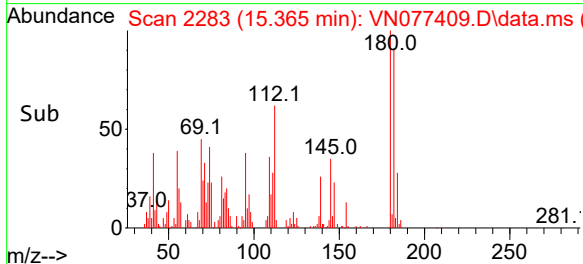
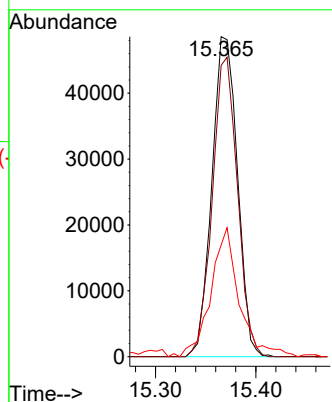
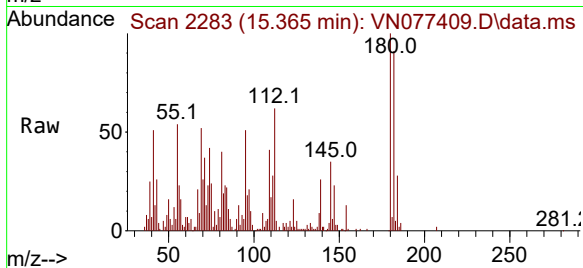
Tgt Ion:180 Resp: 86018

Ion Ratio Lower Upper

180 100

182 92.2 46.7 140.0

145 44.6 16.6 49.8



#95

Naphthalene

Concen: 108.611 ug/l

RT: 15.589 min Scan# 2321

Delta R.T. 0.000 min

Lab File: VN077409.D

Acq: 20 Apr 2023 18:47

Tgt Ion:128 Resp: 2546187

Ion Ratio Lower Upper

128 100

127 13.0 10.2 15.4

129 11.0 8.9 13.3

