

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN042624\
 Data File : VN081887.D
 Acq On : 26 Apr 2024 18:55
 Operator : JC\MD
 Sample : P2263-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 60156

Quant Time: Apr 26 23:05:10 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N042524W.M
 Quant Title : SW846 8260
 QLast Update : Fri Apr 26 05:26:49 2024
 Response via : Initial Calibration

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

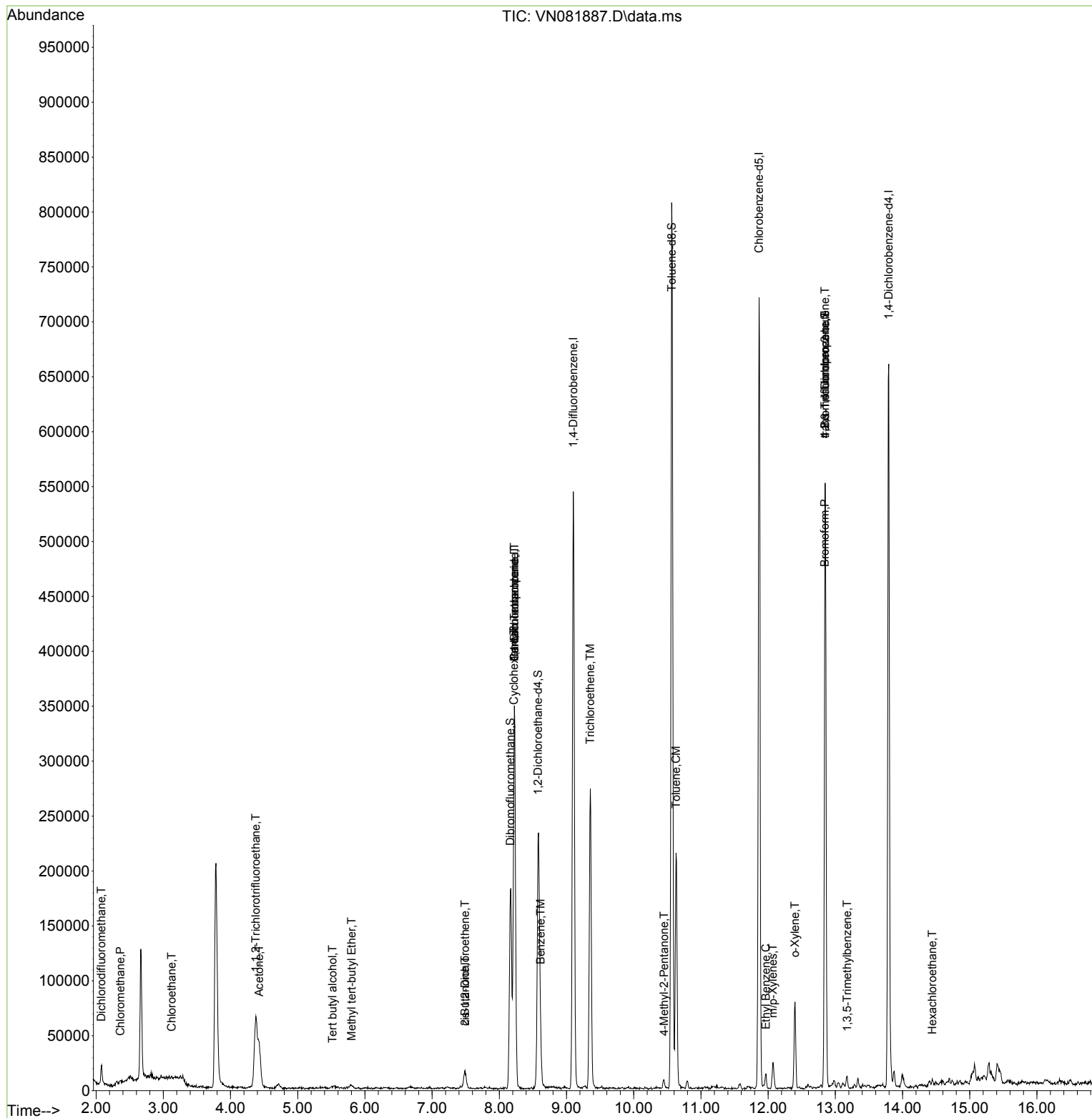
Internal Standards						
1) Pentafluorobenzene	8.224	168	247380	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	461895	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	400549	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	164959	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	178217	42.685	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	85.380%		
35) Dibromofluoromethane	8.165	113	133747	48.093	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	96.180%		
50) Toluene-d8	10.565	98	555326	50.844	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	101.680%		
62) 4-Bromofluorobenzene	12.847	95	201809	46.741	ug/l	0.00
Spiked Amount 50.000	Range 64 - 133		Recovery =	93.480%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.077	85	2205	0.635	ug/l	94
3) Chloromethane	2.359	50	1425	0.393	ug/l	97
5) Bromomethane	2.942	94	232	Below Cal	#	80
6) Chloroethane	3.124	64	817	0.493	ug/l #	44
9) 1,1,2-Trichlorotrifluo...	4.377	101	46816	15.896	ug/l	95
11) Tert butyl alcohol	5.518	59	2742	3.613	ug/l #	89
13) Acrolein	4.177	56	500	Below Cal	#	1
16) Acetone	4.424	43	68228	50.908	ug/l	97
19) Methyl tert-butyl Ether	5.800	73	2434	0.215	ug/l	94
25) 2-Butanone	7.489	43	6962	2.938	ug/l #	73
27) cis-1,2-Dichloroethene	7.489	96	7797	2.042	ug/l	93
31) Cyclohexane	8.218	56	7899	1.256	ug/l #	34
36) 1,1-Dichloropropene	8.224	75	22482	4.969	ug/l #	49
38) Carbon Tetrachloride	8.224	117	26240	5.934	ug/l #	18
40) Benzene	8.612	78	53079	3.908	ug/l	97
44) Trichloroethene	9.353	130	95471	30.488	ug/l	91
51) 4-Methyl-2-Pentanone	10.453	43	6626	1.280	ug/l	90
52) Toluene	10.630	92	93106	11.447	ug/l	98
67) Ethyl Benzene	11.965	91	7524	0.463	ug/l #	81
68) m/p-Xylenes	12.071	106	6959	1.199	ug/l	99
69) o-Xylene	12.400	106	20664	3.648	ug/l	85
71) Bromoform	12.841	173	497	0.222	ug/l #	28
76) 1,2,3-Trichloropropane	12.847	75	105085	24.570	ug/l #	1
80) 1,3,5-Trimethylbenzene	13.176	105	4899	0.395	ug/l	88
81) trans-1,4-Dichloro-2-b...	12.847	75	105085	50.346	ug/l #	12
90) Hexachloroethane	14.441	117	1382	0.601	ug/l #	17

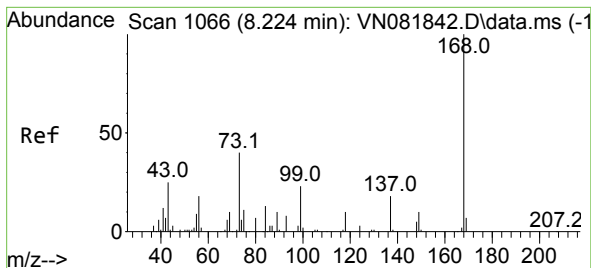
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.224 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN081887.D

Acq: 26 Apr 2024 18:55

Instrument :

MSVOA_N

ClientSampleId :

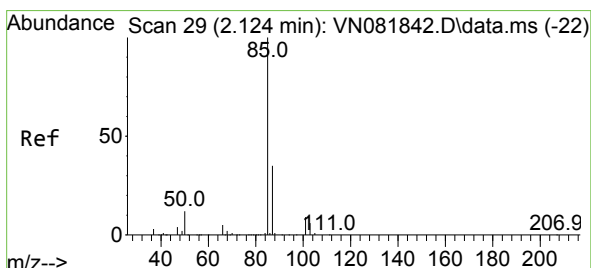
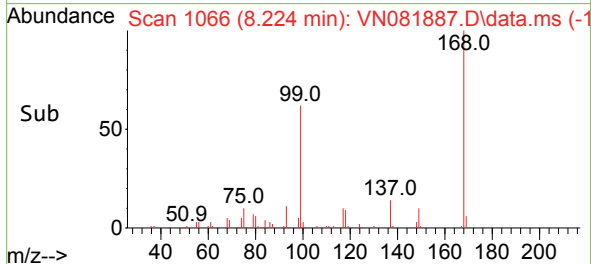
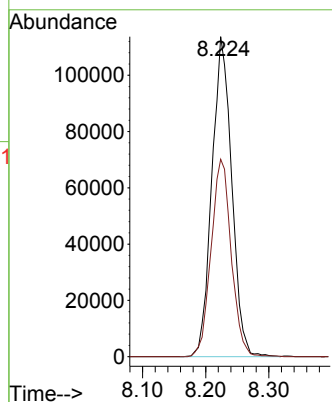
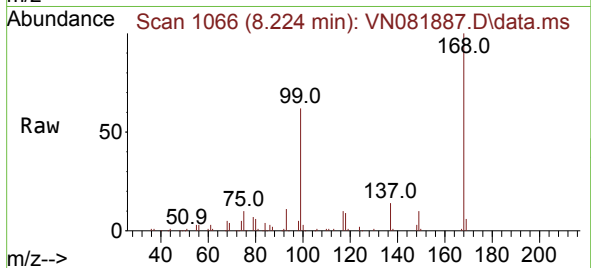
60156

Tgt Ion:168 Resp: 247380

Ion Ratio Lower Upper

168 100

99 61.7 48.2 72.4



#2

Dichlorodifluoromethane

Concen: 0.635 ug/l

RT: 2.077 min Scan# 21

Delta R.T. -0.047 min

Lab File: VN081887.D

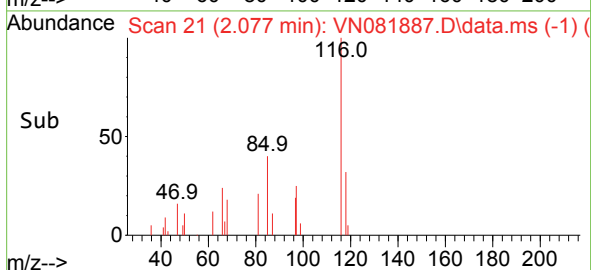
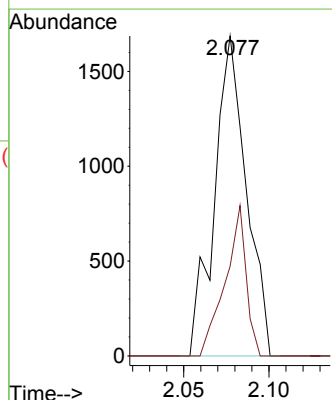
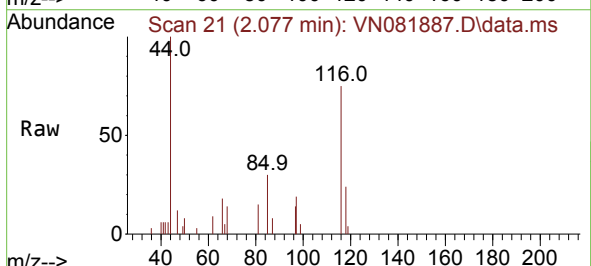
Acq: 26 Apr 2024 18:55

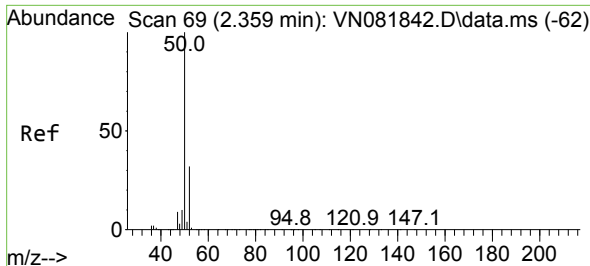
Tgt Ion: 85 Resp: 2205

Ion Ratio Lower Upper

85 100

87 28.0 15.8 47.4

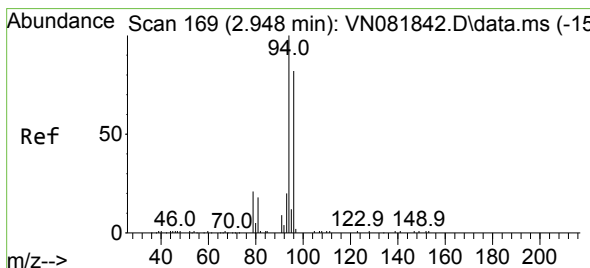
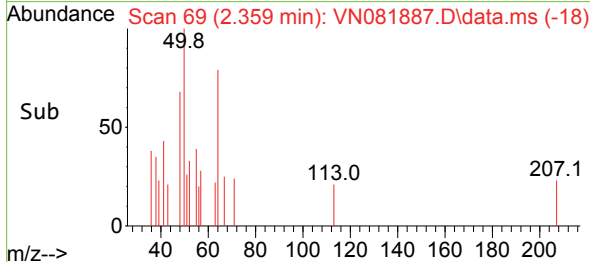
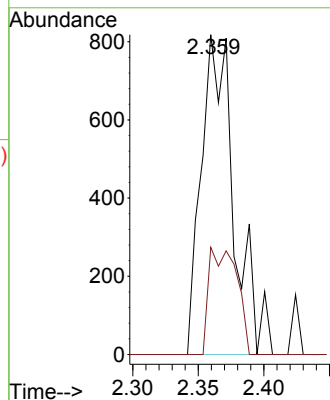
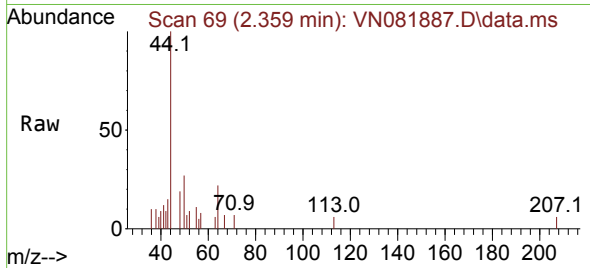




#3
Chloromethane
Concen: 0.393 ug/l
RT: 2.359 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN081887.D
Acq: 26 Apr 2024 18:55

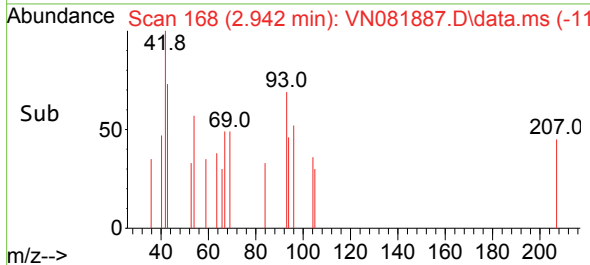
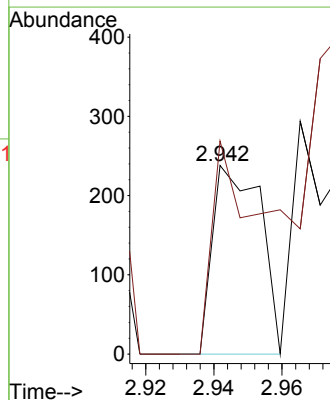
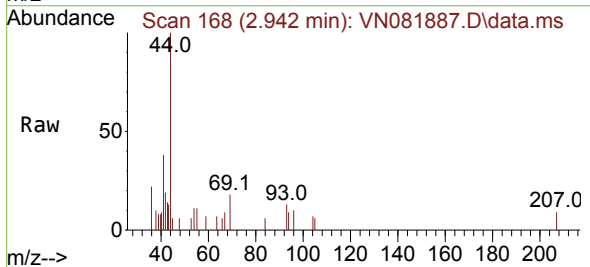
Instrument :
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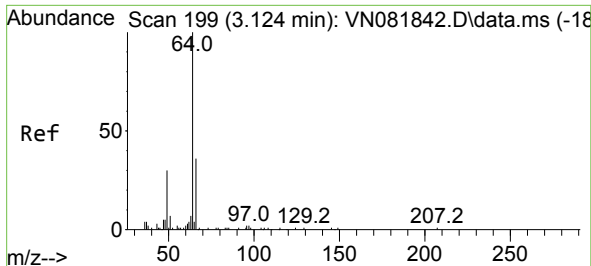
Tgt Ion: 50 Resp: 1425
Ion Ratio Lower Upper
50 100
52 33.5 25.5 38.3



#5
Bromomethane
Concen: Below Cal
RT: 2.942 min Scan# 168
Delta R.T. -0.006 min
Lab File: VN081887.D
Acq: 26 Apr 2024 18:55

Tgt Ion: 94 Resp: 232
Ion Ratio Lower Upper
94 100
96 113.0 74.8 112.2#

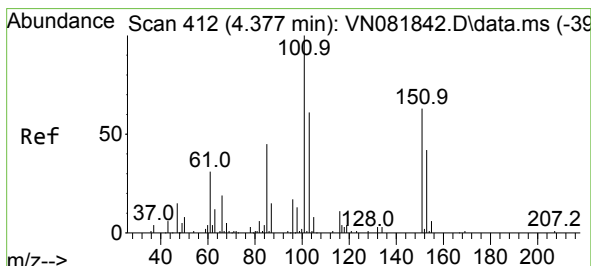
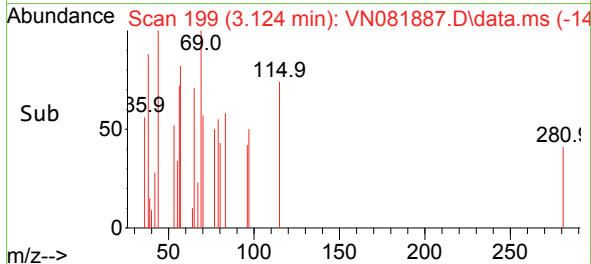
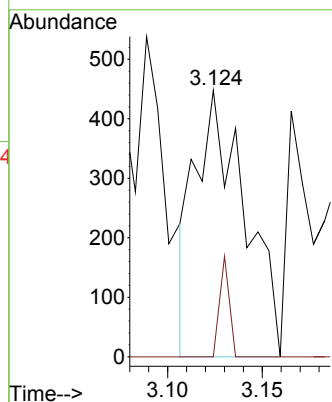
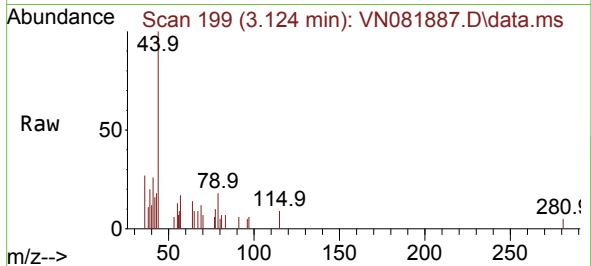




#6
Chloroethane
Concen: 0.493 ug/l
RT: 3.124 min Scan# 199
Delta R.T. 0.000 min
Lab File: VN081887.D
Acq: 26 Apr 2024 18:55

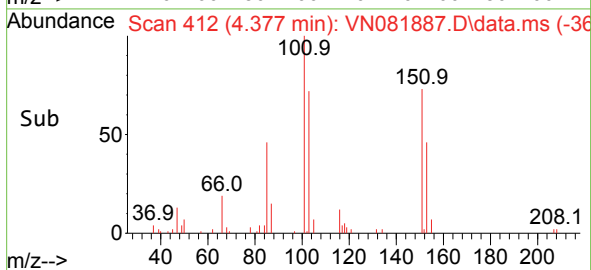
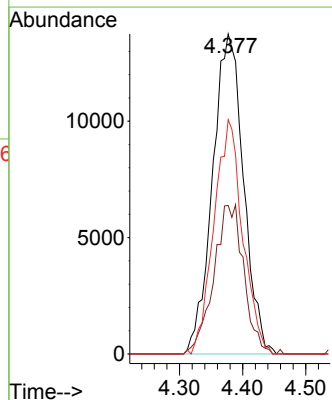
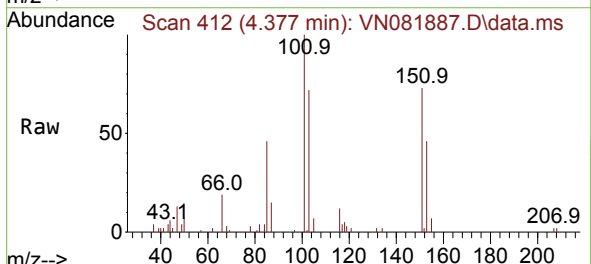
Instrument :
MSVOA_N
ClientSampleId :
60156

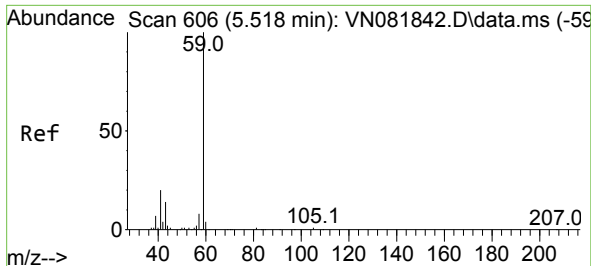
Tgt Ion: 64 Resp: 817
Ion Ratio Lower Upper
64 100
66 0.0 24.7 37.1#



#9
1,1,2-Trichlorotrifluoroethane
Concen: 15.896 ug/l
RT: 4.377 min Scan# 412
Delta R.T. 0.000 min
Lab File: VN081887.D
Acq: 26 Apr 2024 18:55

Tgt Ion: 101 Resp: 46816
Ion Ratio Lower Upper
101 100
85 45.2 37.3 55.9
151 68.0 59.2 88.8

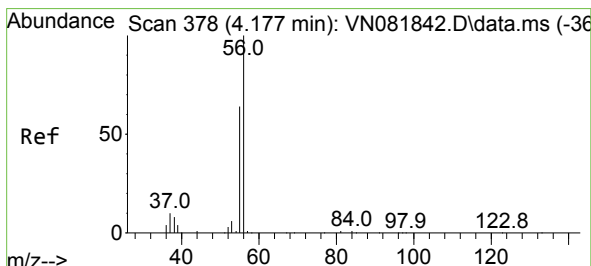
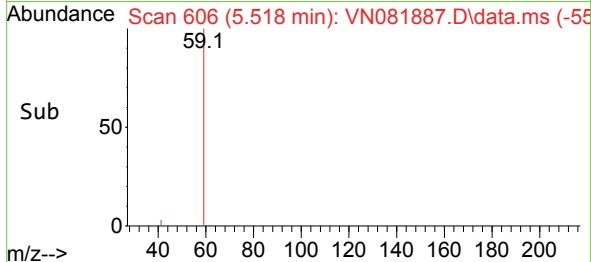
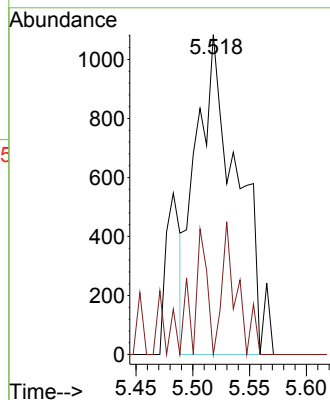
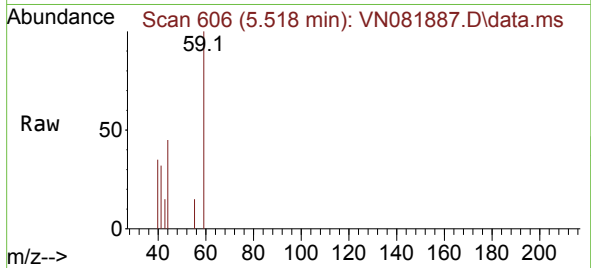




#11
Tert butyl alcohol
Concen: 3.613 ug/l
RT: 5.518 min Scan# 606
Delta R.T. 0.000 min
Lab File: VN081887.D
Acq: 26 Apr 2024 18:55

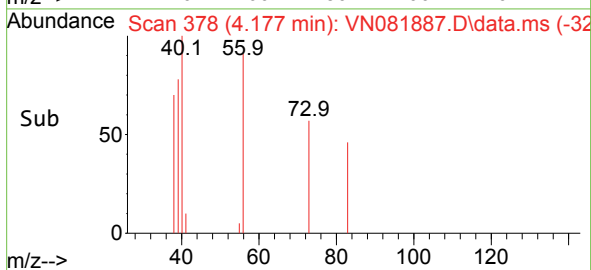
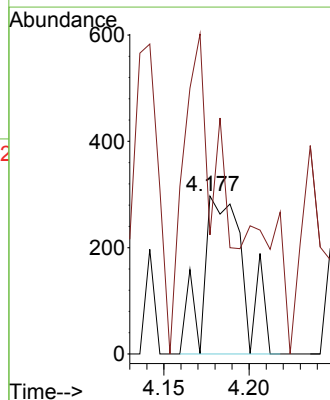
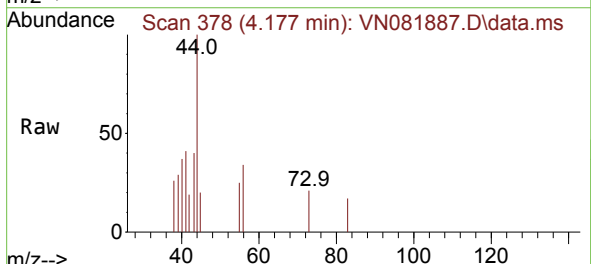
Instrument :
MSVOA_N
ClientSampleId :
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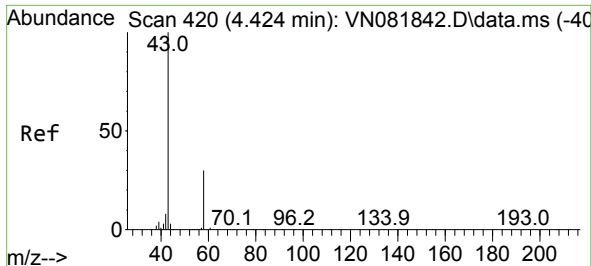
Tgt Ion: 59 Resp: 2742
Ion Ratio Lower Upper
59 100
57 15.2 8.9 13.3#



#13
Acrolein
Concen: Below Cal
RT: 4.177 min Scan# 378
Delta R.T. 0.000 min
Lab File: VN081887.D
Acq: 26 Apr 2024 18:55

Tgt Ion: 56 Resp: 500
Ion Ratio Lower Upper
56 100
55 175.2 55.8 83.8#





#16

Acetone

Concen: 50.908 ug/l

RT: 4.424 min Scan# 41

Delta R.T. 0.000 min

Lab File: VN081887.D

Acq: 26 Apr 2024 18:55

Instrument :

MSVOA_N

ClientSampleId :

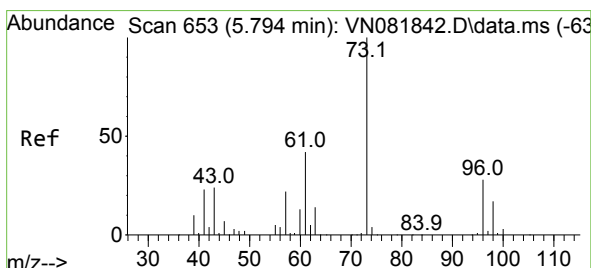
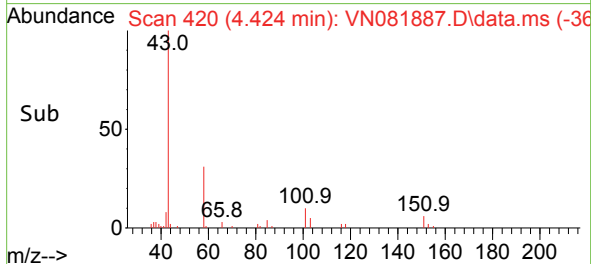
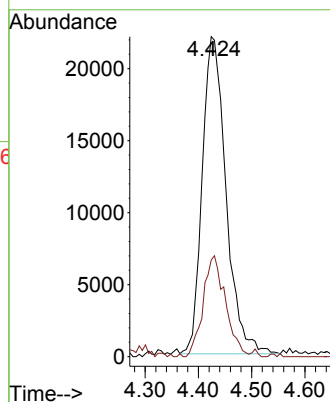
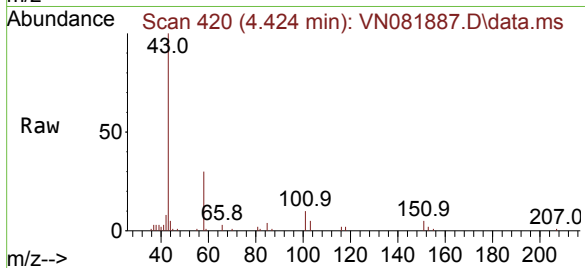
60156

Tgt Ion: 43 Resp: 68228

Ion Ratio Lower Upper

43 100

58 29.6 25.2 37.8



#19

Methyl tert-butyl Ether

Concen: 0.215 ug/l

RT: 5.800 min Scan# 654

Delta R.T. 0.006 min

Lab File: VN081887.D

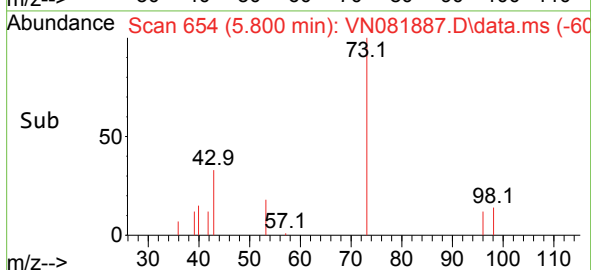
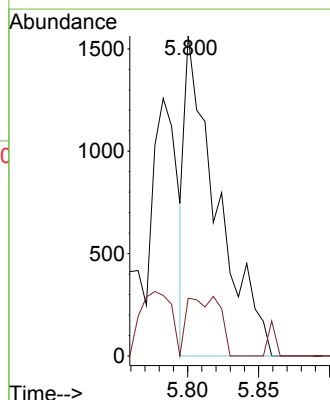
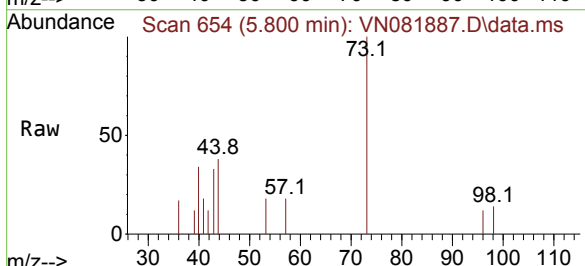
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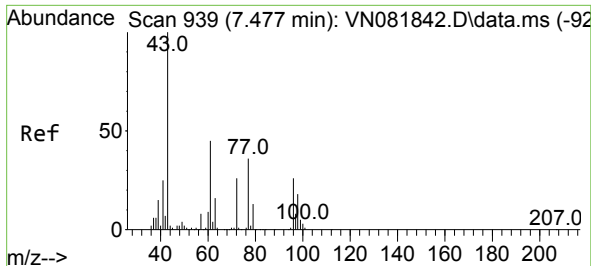
Tgt Ion: 73 Resp: 2434

Ion Ratio Lower Upper

73 100

57 18.0 16.5 24.7

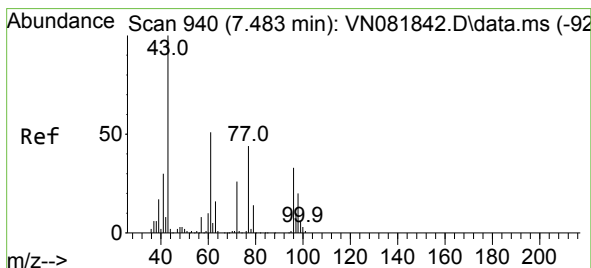
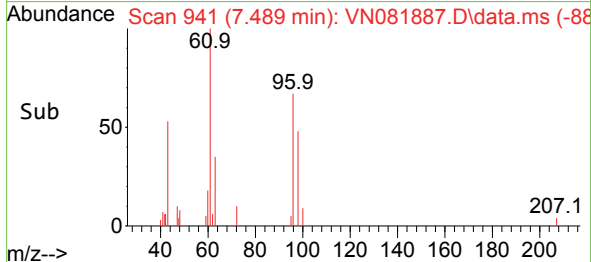
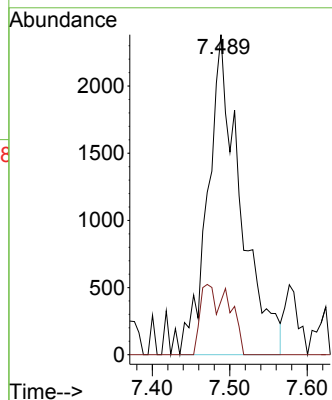
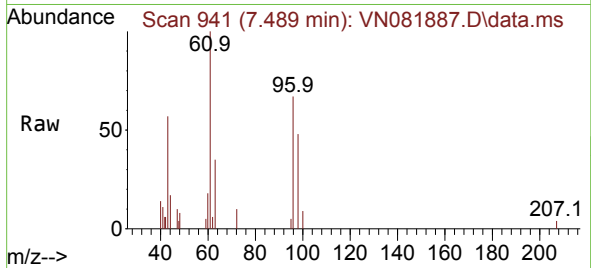




#25
2-Butanone
Concen: 2.938 ug/l
RT: 7.489 min Scan# 941
Delta R.T. 0.012 min
Lab File: VN081887.D
Acq: 26 Apr 2024 18:55

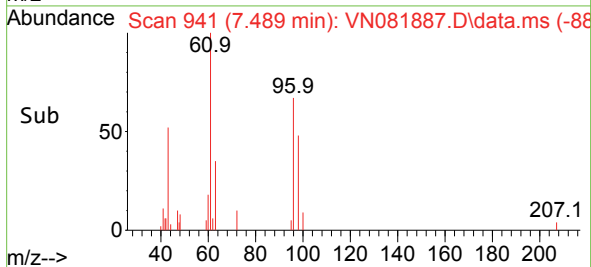
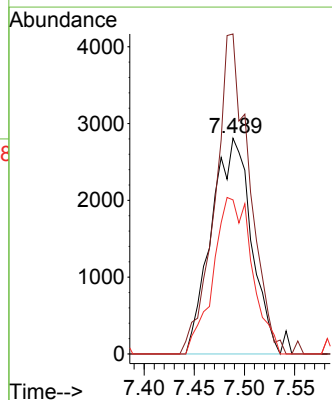
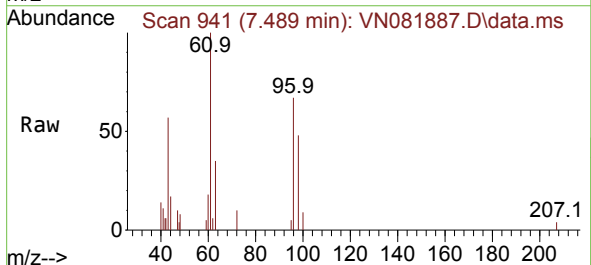
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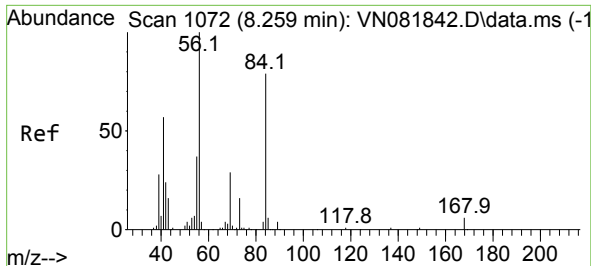
Tgt Ion: 43 Resp: 6962
Ion Ratio Lower Upper
43 100
72 16.8 25.3 37.9#



#27
cis-1,2-Dichloroethene
Concen: 2.042 ug/l
RT: 7.489 min Scan# 941
Delta R.T. 0.006 min
Lab File: VN081887.D
Acq: 26 Apr 2024 18:55

Tgt Ion: 96 Resp: 7797
Ion Ratio Lower Upper
96 100
61 127.1 0.0 268.0
98 70.4 0.0 126.8

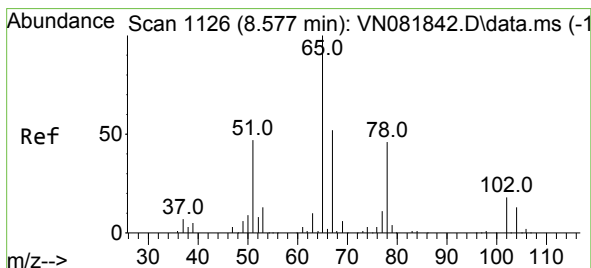
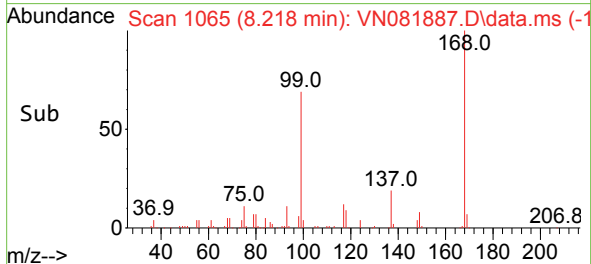
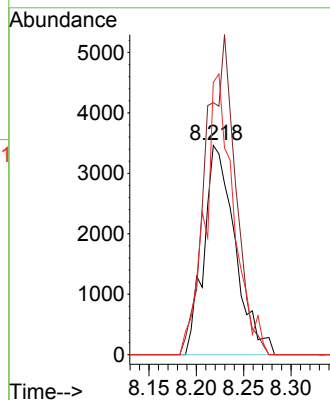
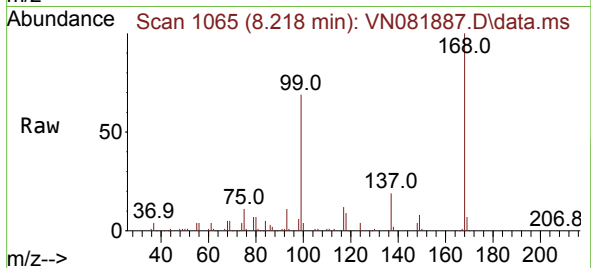




#31
Cyclohexane
Concen: 1.256 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.041 min
Lab File: VN081887.D
Acq: 26 Apr 2024 18:55

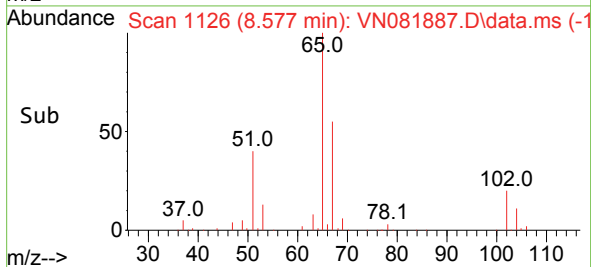
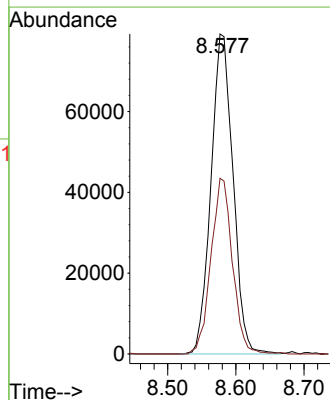
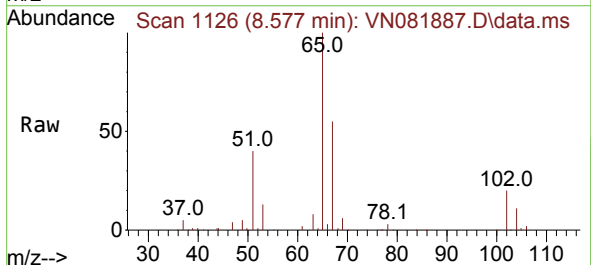
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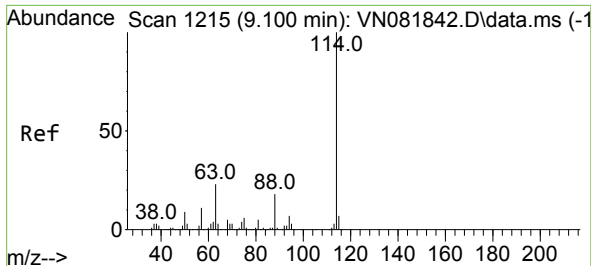
Tgt Ion: 56 Resp: 7899
Ion Ratio Lower Upper
56 100
69 120.4 24.4 36.6#
84 130.2 77.0 115.4#



#33
1,2-Dichloroethane-d4
Concen: 42.685 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. 0.000 min
Lab File: VN081887.D
Acq: 26 Apr 2024 18:55

Tgt Ion: 65 Resp: 178217
Ion Ratio Lower Upper
65 100
67 53.5 0.0 103.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN081887.D

Acq: 26 Apr 2024 18:55

Instrument :

MSVOA_N

ClientSampleId :

60156

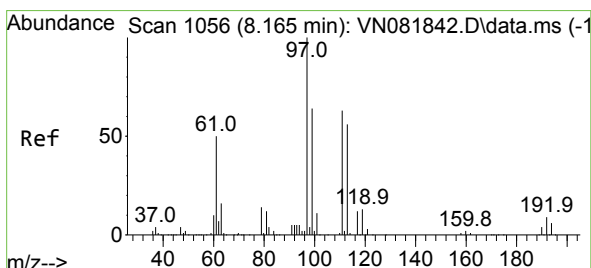
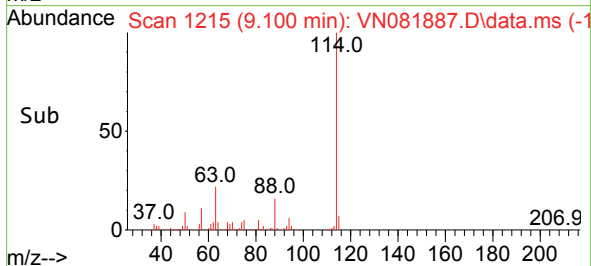
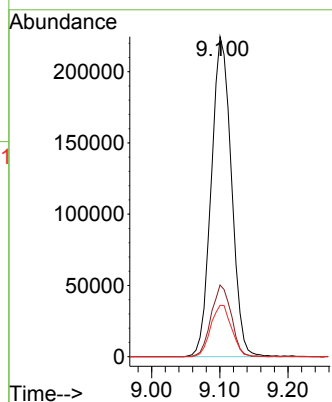
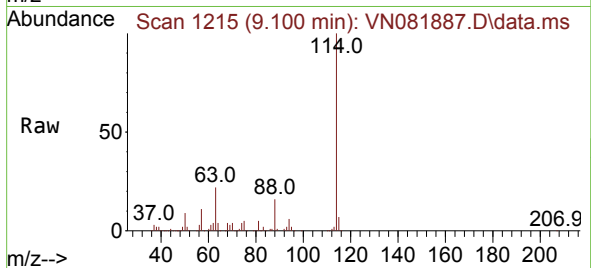
Tgt Ion:114 Resp: 461895

Ion Ratio Lower Upper

114 100

63 22.4 0.0 41.0

88 16.0 0.0 31.4



#35

Dibromofluoromethane

Concen: 48.093 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.000 min

Lab File: VN081887.D

Acq: 26 Apr 2024 18:55

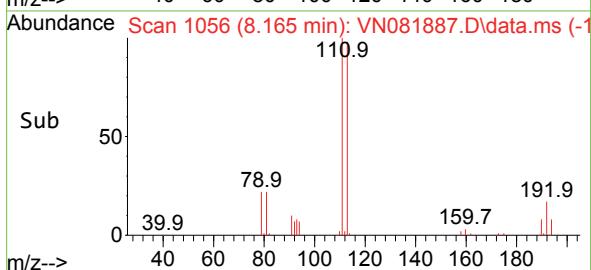
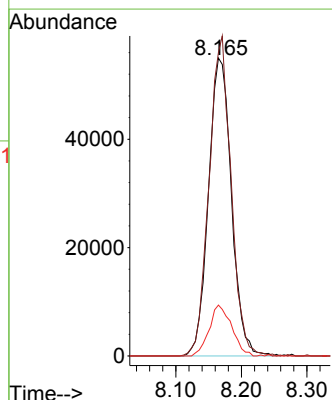
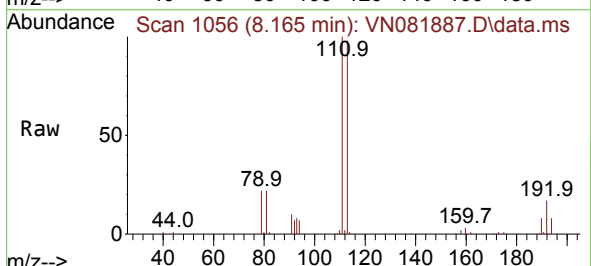
Tgt Ion:113 Resp: 133747

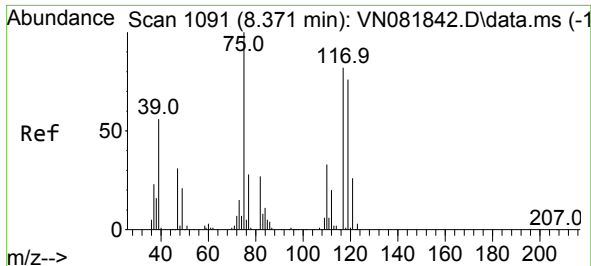
Ion Ratio Lower Upper

113 100

111 103.0 83.4 125.2

192 16.7 14.0 21.0





#36

1,1-Dichloropropene

Concen: 4.969 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.147 min

Lab File: VN081887.D

Acq: 26 Apr 2024 18:55

Instrument :

MSVOA_N

ClientSampleId :

60156

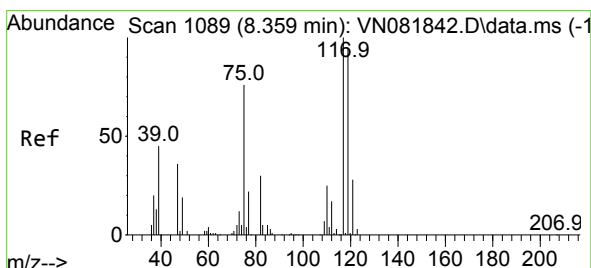
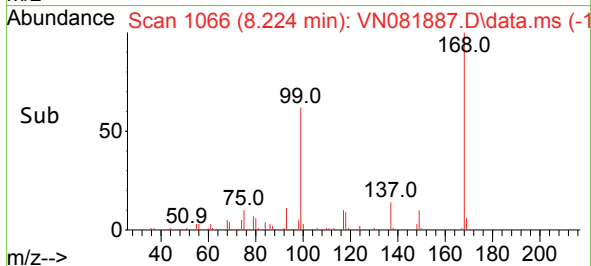
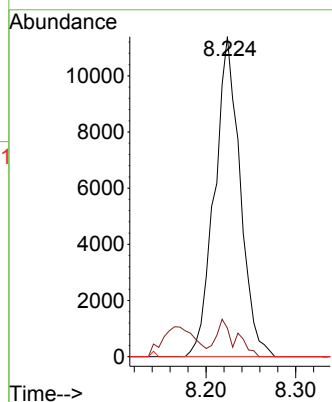
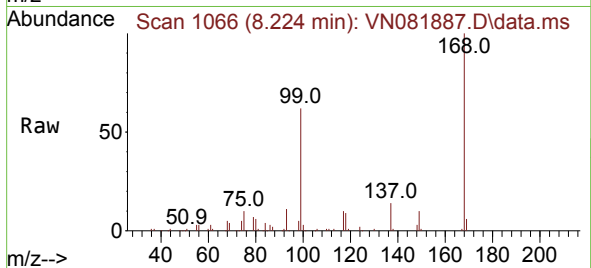
Tgt Ion: 75 Resp: 22482

Ion Ratio Lower Upper

75 100

110 9.1 17.8 53.5#

77 0.0 25.0 37.4#



#38

Carbon Tetrachloride

Concen: 5.934 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.135 min

Lab File: VN081887.D

Acq: 26 Apr 2024 18:55

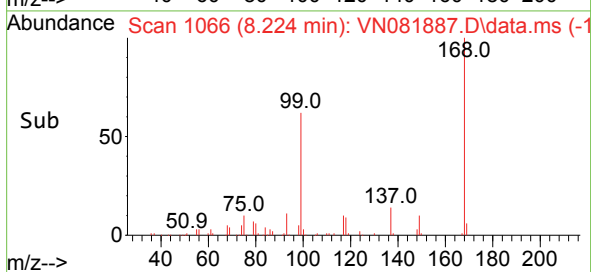
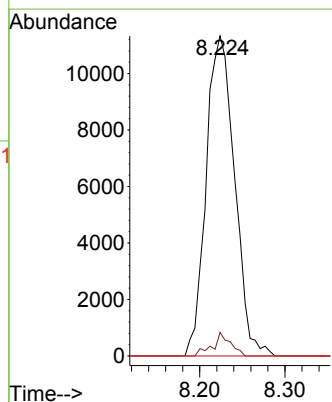
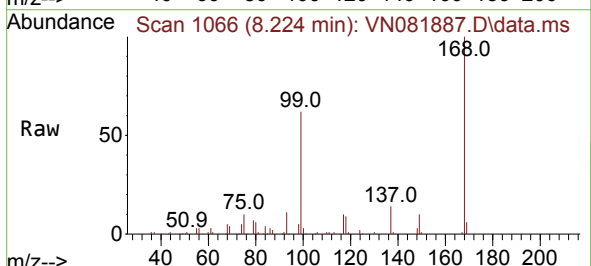
Tgt Ion: 117 Resp: 26240

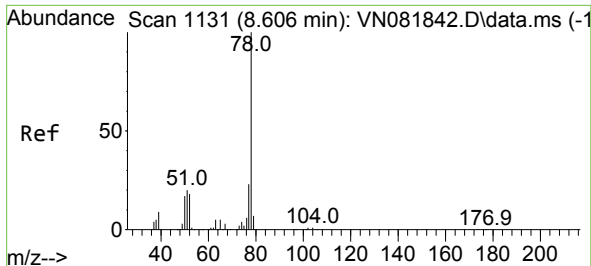
Ion Ratio Lower Upper

117 100

119 7.4 76.5 114.7#

121 0.0 23.9 35.9#

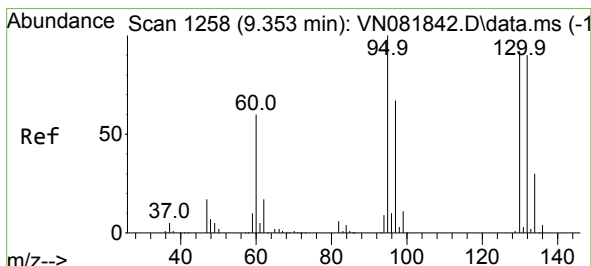
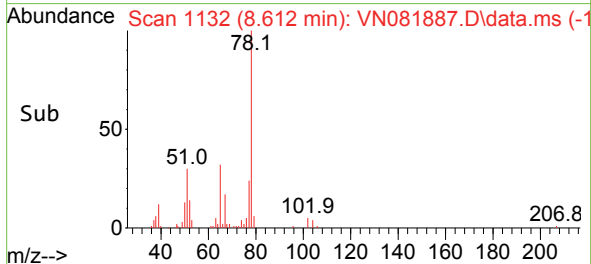
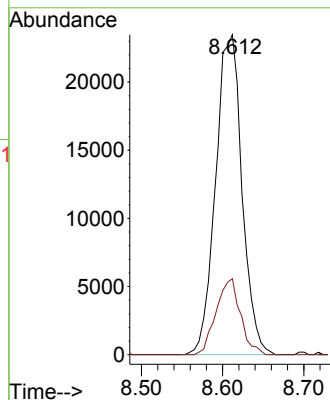
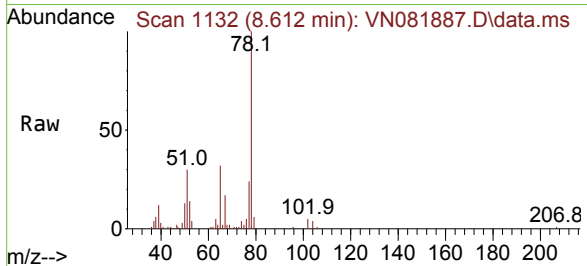




#40
Benzene
Concen: 3.908 ug/l
RT: 8.612 min Scan# 1131
Delta R.T. 0.006 min
Lab File: VN081887.D
Acq: 26 Apr 2024 18:55

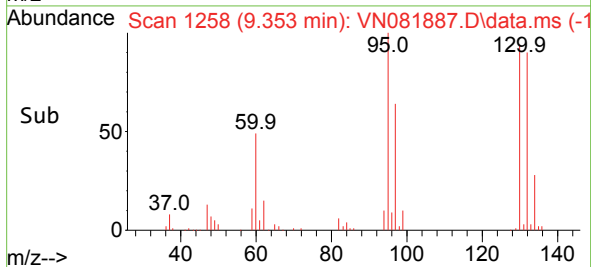
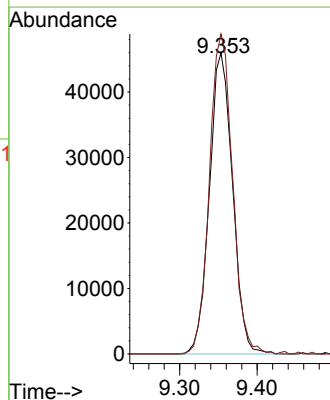
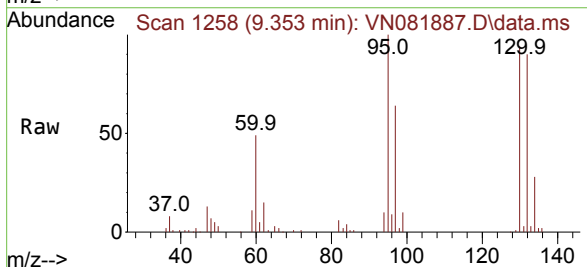
Instrument :
MSVOA_N
ClientSampleId :
60156

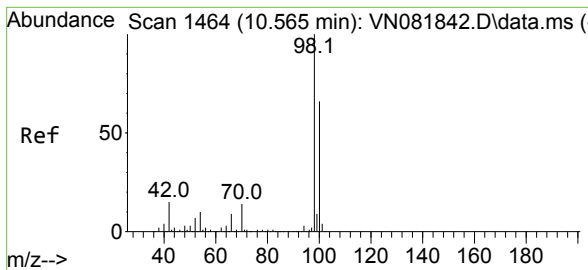
Tgt Ion: 78 Resp: 53079
Ion Ratio Lower Upper
78 100
77 23.7 20.0 30.0



#44
Trichloroethene
Concen: 30.488 ug/l
RT: 9.353 min Scan# 1258
Delta R.T. 0.000 min
Lab File: VN081887.D
Acq: 26 Apr 2024 18:55

Tgt Ion:130 Resp: 95471
Ion Ratio Lower Upper
130 100
95 106.3 0.0 195.4

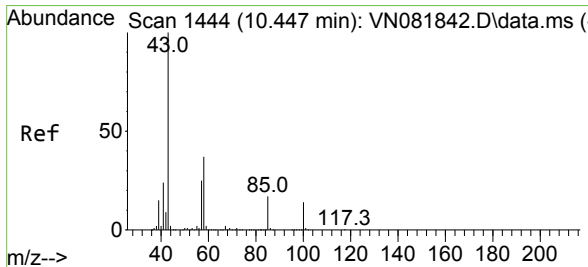
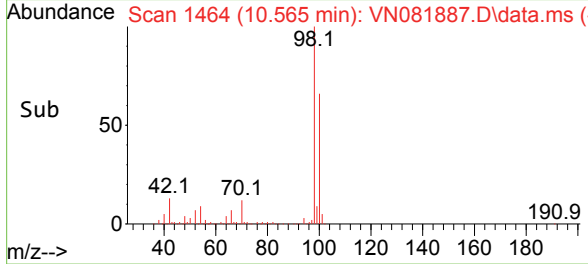
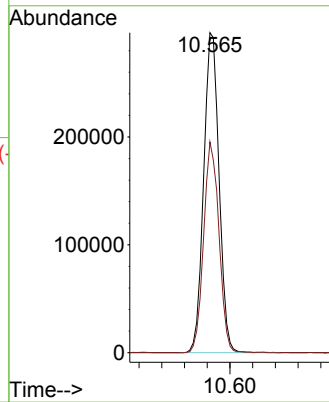
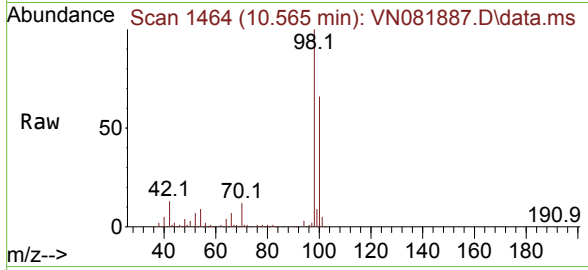




#50
Toluene-d8
Concen: 50.844 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN081887.D
Acq: 26 Apr 2024 18:55

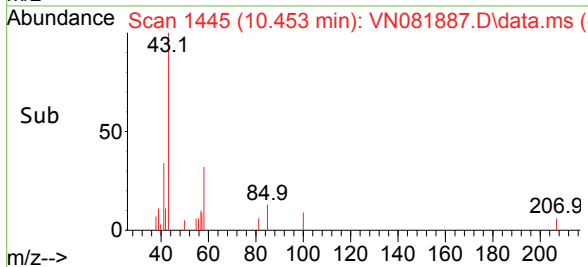
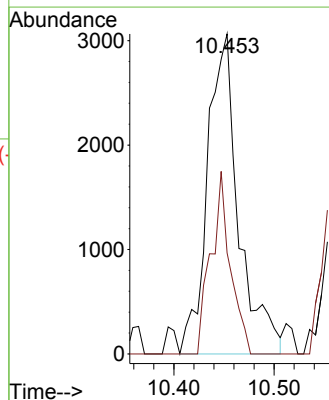
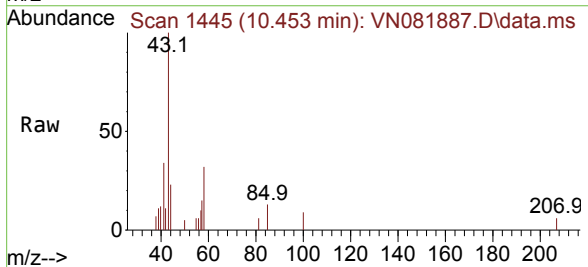
Instrument :
MSVOA_N
ClientSampleId :
60156

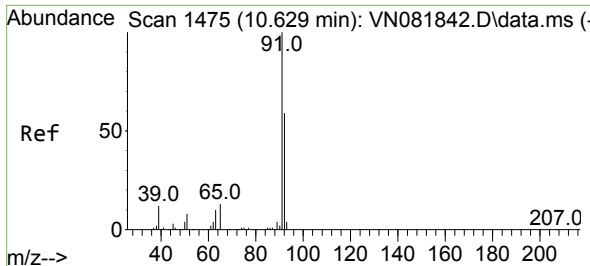
Tgt Ion: 98 Resp: 555326
Ion Ratio Lower Upper
98 100
100 65.7 51.8 77.6



#51
4-Methyl-2-Pentanone
Concen: 1.280 ug/l
RT: 10.453 min Scan# 1445
Delta R.T. 0.006 min
Lab File: VN081887.D
Acq: 26 Apr 2024 18:55

Tgt Ion: 43 Resp: 6626
Ion Ratio Lower Upper
43 100
58 35.5 33.2 49.8

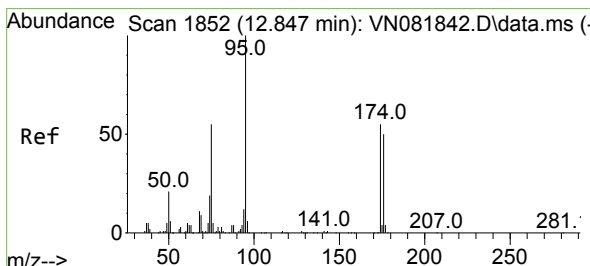
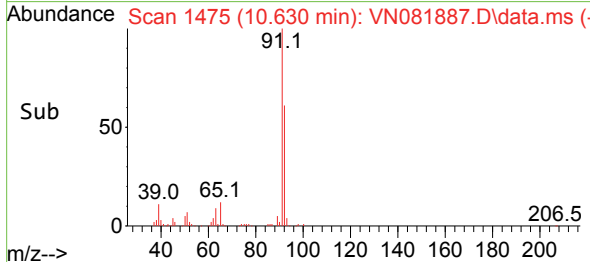
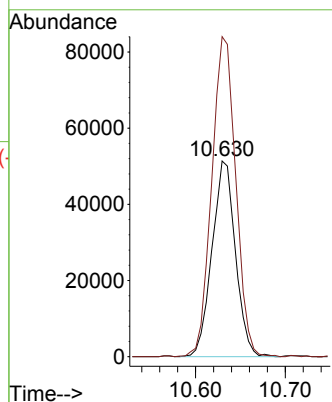
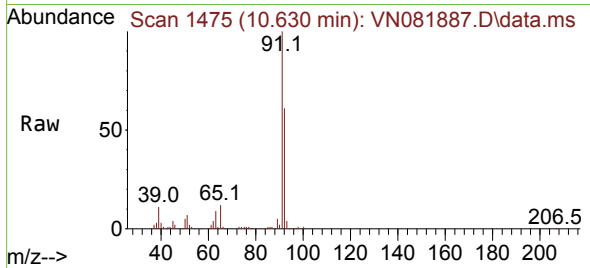




#52
Toluene
Concen: 11.447 ug/l
RT: 10.630 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VN081887.D
Acq: 26 Apr 2024 18:55

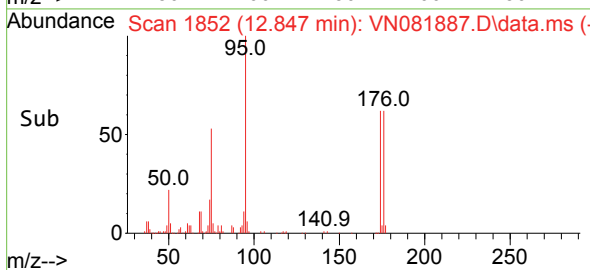
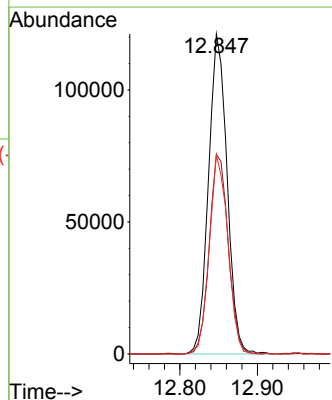
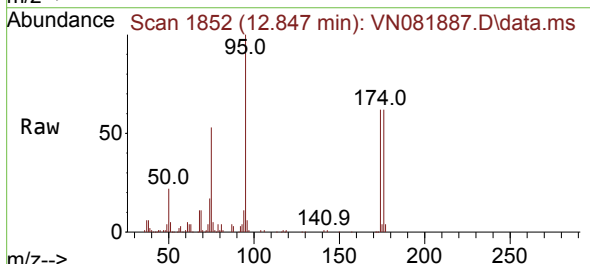
Instrument :
MSVOA_N
ClientSampleId :
60156

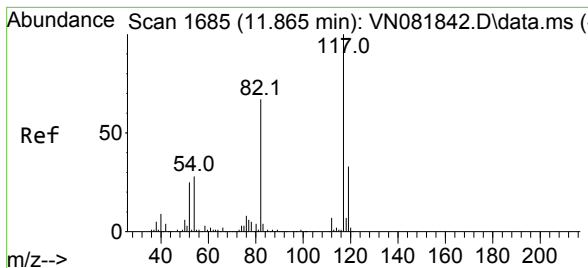
Tgt Ion: 92 Resp: 93106
Ion Ratio Lower Upper
92 100
91 167.6 136.7 205.1



#62
4-Bromofluorobenzene
Concen: 46.741 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN081887.D
Acq: 26 Apr 2024 18:55

Tgt Ion: 95 Resp: 201809
Ion Ratio Lower Upper
95 100
174 63.9 0.0 160.6
176 62.0 0.0 152.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN081887.D

Acq: 26 Apr 2024 18:55

Instrument :

MSVOA_N

ClientSampleId :

60156

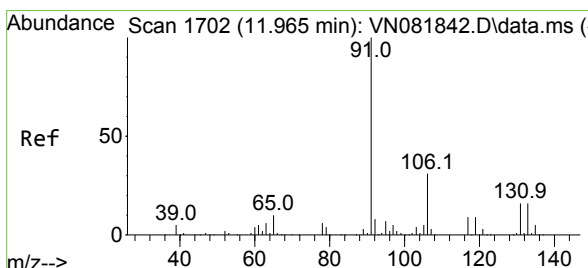
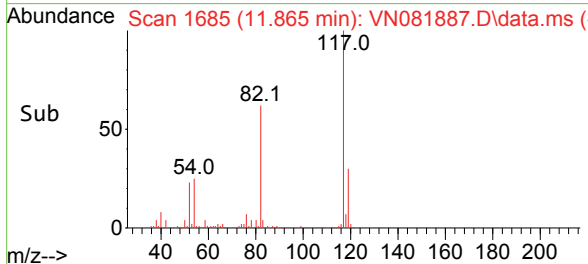
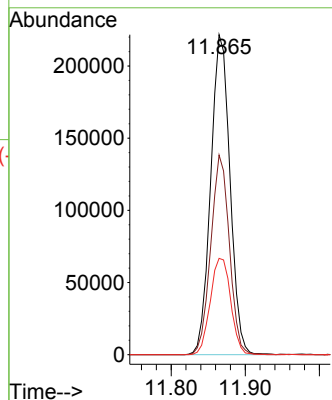
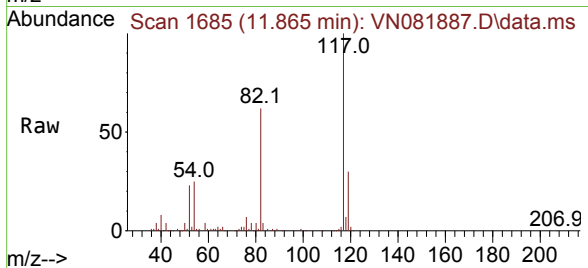
Tgt Ion:117 Resp: 400549

Ion Ratio Lower Upper

117 100

82 62.4 44.6 66.8

119 30.1 25.9 38.9



#67

Ethyl Benzene

Concen: 0.463 ug/l

RT: 11.965 min Scan# 1702

Delta R.T. 0.000 min

Lab File: VN081887.D

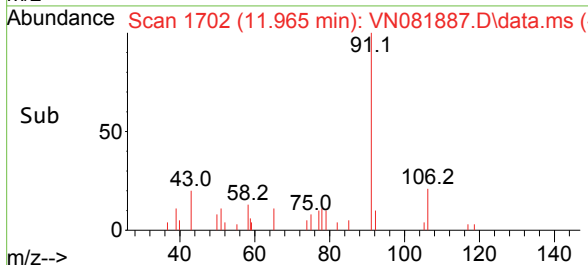
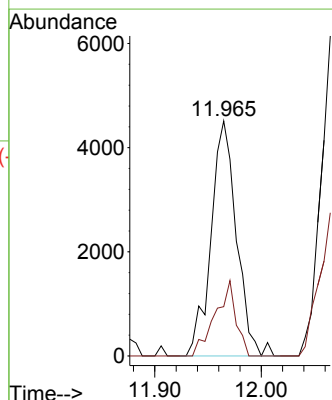
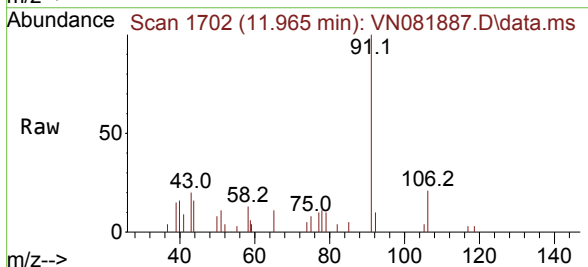
Acq: 26 Apr 2024 18:55

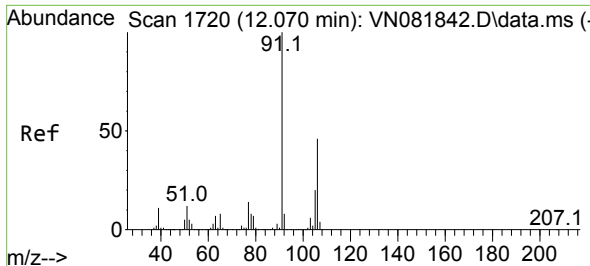
Tgt Ion: 91 Resp: 7524

Ion Ratio Lower Upper

91 100

106 21.0 25.3 37.9#

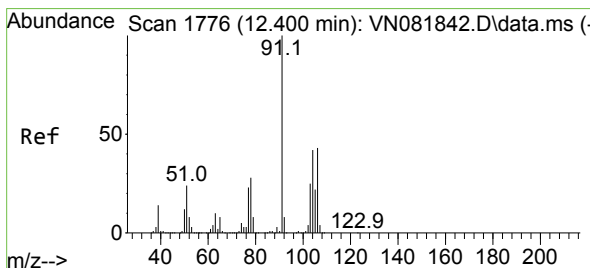
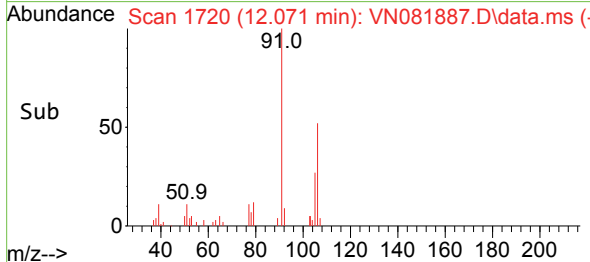
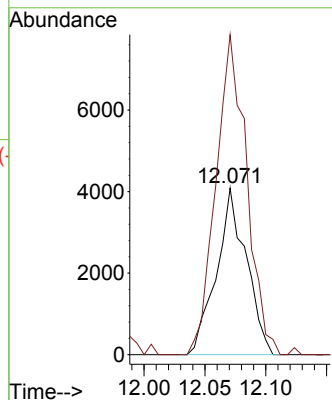
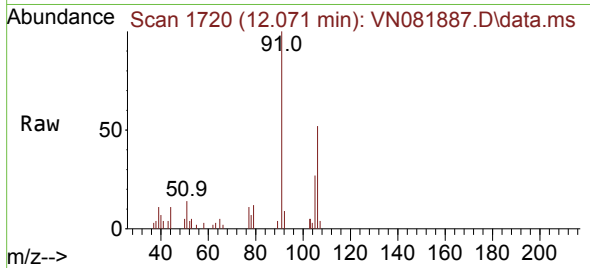




#68
m/p-Xylenes
Concen: 1.199 ug/l
RT: 12.071 min Scan# 1720
Delta R.T. 0.000 min
Lab File: VN081887.D
Acq: 26 Apr 2024 18:55

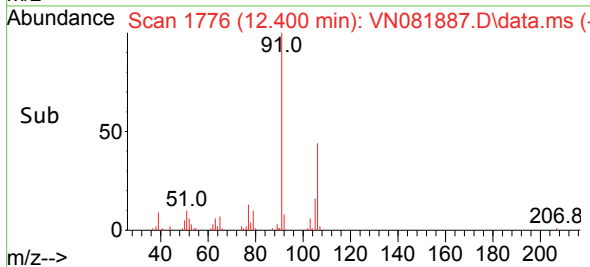
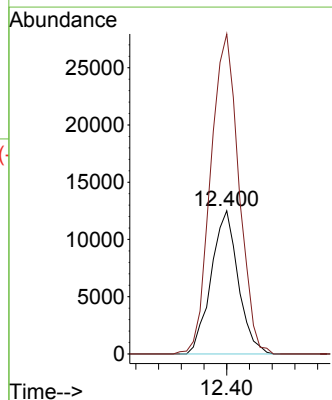
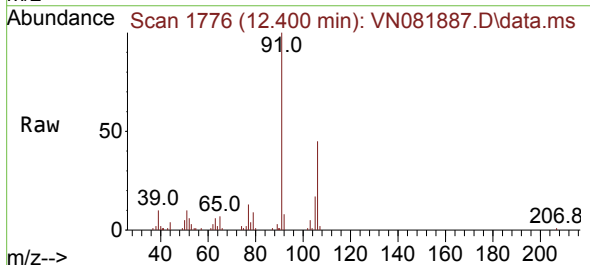
Instrument :
MSVOA_N
ClientSampleId :
60156

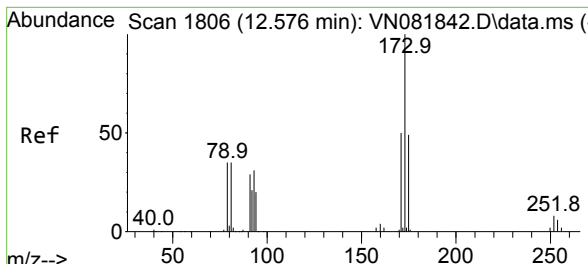
Tgt Ion:106 Resp: 6959
Ion Ratio Lower Upper
106 100
91 198.1 159.4 239.0



#69
o-Xylene
Concen: 3.648 ug/l
RT: 12.400 min Scan# 1776
Delta R.T. 0.000 min
Lab File: VN081887.D
Acq: 26 Apr 2024 18:55

Tgt Ion:106 Resp: 20664
Ion Ratio Lower Upper
106 100
91 232.8 104.7 314.1

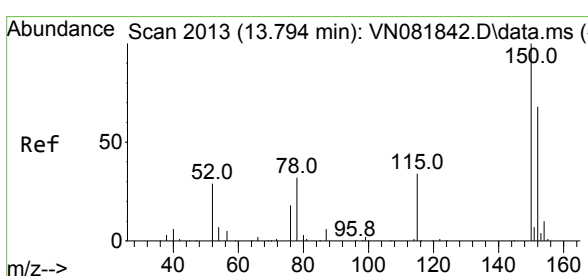
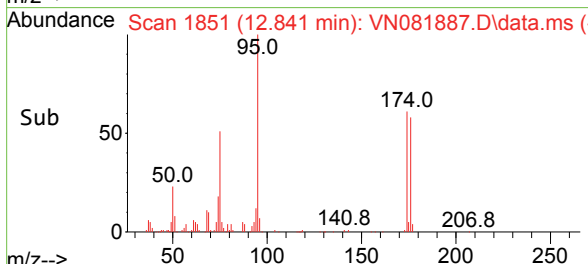
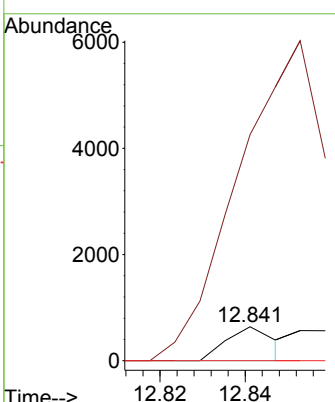
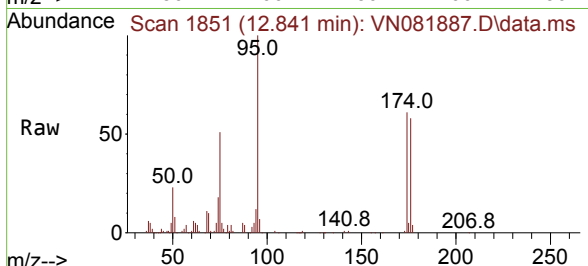




#71
 Bromoform
 Concen: 0.222 ug/l
 RT: 12.841 min Scan# 1806
 Delta R.T. 0.265 min
 Lab File: VN081887.D
 Acq: 26 Apr 2024 18:55

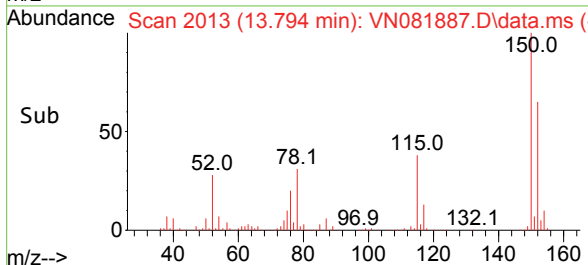
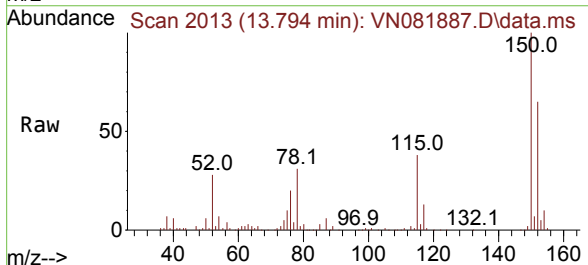
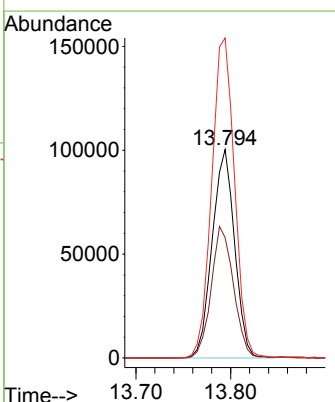
Instrument :
 MSVOA_N
 ClientSampleId :
 60156

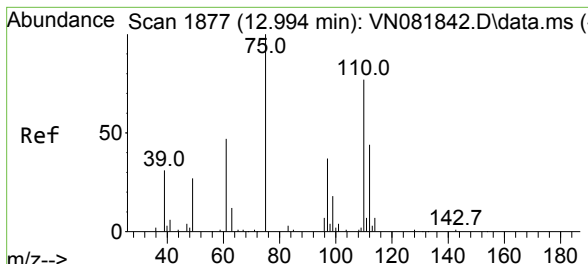
Tgt Ion:	173	Resp:	497
Ion Ratio	Lower	Upper	
173	100		
175	0.0	24.6	74.0#
254	0.0	0.0	0.0



#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.794 min Scan# 2013
 Delta R.T. 0.000 min
 Lab File: VN081887.D
 Acq: 26 Apr 2024 18:55

Tgt Ion:	152	Resp:	164959
Ion Ratio	Lower	Upper	
152	100		
115	62.8	30.4	91.3
150	156.4	0.0	353.2

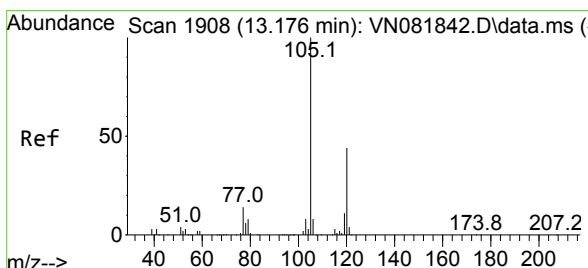
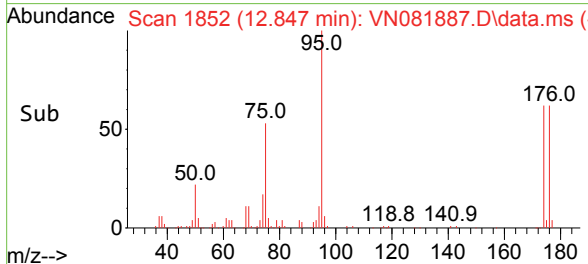
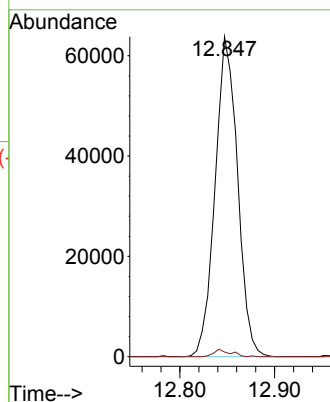
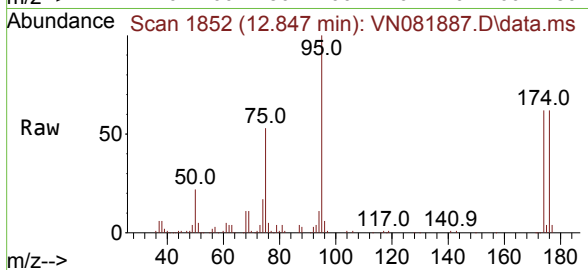




#76
 1,2,3-Trichloropropane
 Concen: 24.570 ug/l
 RT: 12.847 min Scan# 1852
 Delta R.T. -0.147 min
 Lab File: VN081887.D
 Acq: 26 Apr 2024 18:55

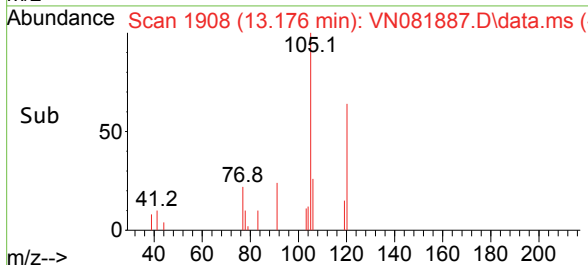
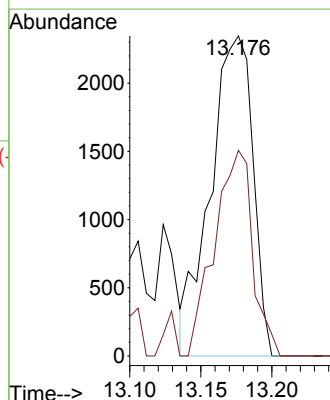
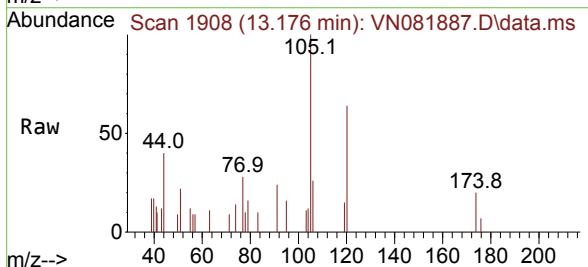
Instrument :
 MSVOA_N
 ClientSampleId :
 60156

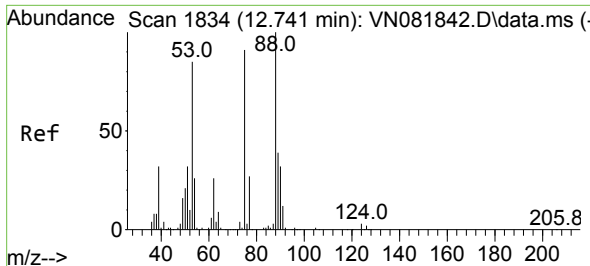
Tgt Ion: 75 Resp: 105085
 Ion Ratio Lower Upper
 75 100
 77 1.7 90.5 271.3#



#80
 1,3,5-Trimethylbenzene
 Concen: 0.395 ug/l
 RT: 13.176 min Scan# 1908
 Delta R.T. 0.000 min
 Lab File: VN081887.D
 Acq: 26 Apr 2024 18:55

Tgt Ion:105 Resp: 4899
 Ion Ratio Lower Upper
 105 100
 120 57.5 24.8 74.3

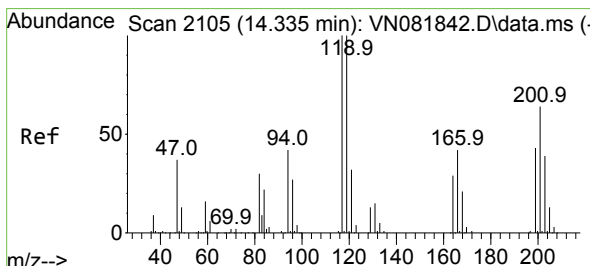
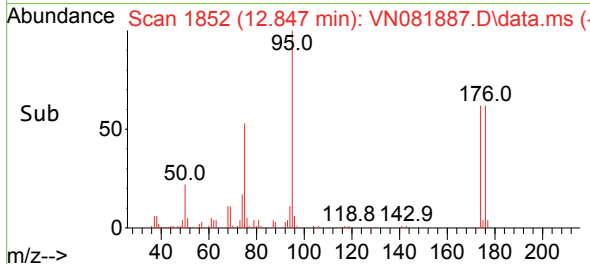
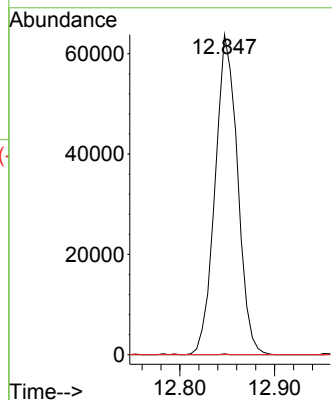
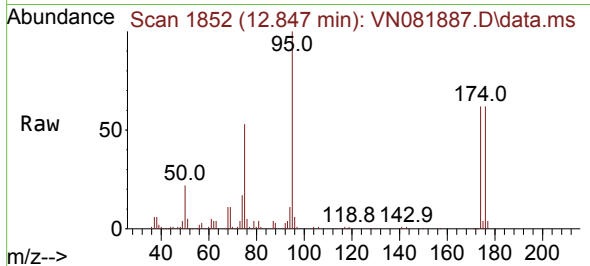




#81
trans-1,4-Dichloro-2-butene
Concen: 50.346 ug/l
RT: 12.847 min Scan# 11
Delta R.T. 0.106 min
Lab File: VN081887.D
Acq: 26 Apr 2024 18:55

Instrument :
MSVOA_N
ClientSampleId :
60156

Tgt Ion: 75 Resp: 105085
Ion Ratio Lower Upper
75 100
53 0.1 72.9 109.3#
89 0.0 39.1 58.7#



#90
Hexachloroethane
Concen: 0.601 ug/l
RT: 14.441 min Scan# 2123
Delta R.T. 0.106 min
Lab File: VN081887.D
Acq: 26 Apr 2024 18:55

Tgt Ion: 117 Resp: 1382
Ion Ratio Lower Upper
117 100
201 0.0 33.3 99.8#

