

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032124\
 Data File : VN081518.D
 Acq On : 21 Mar 2024 14:38
 Operator : JC\MD
 Sample : P1798-01 20X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 S-1

Quant Time: Mar 22 05:06:40 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N031824W.M
 Quant Title : SW846 8260
 QLast Update : Tue Mar 19 06:00:00 2024
 Response via : Initial Calibration

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

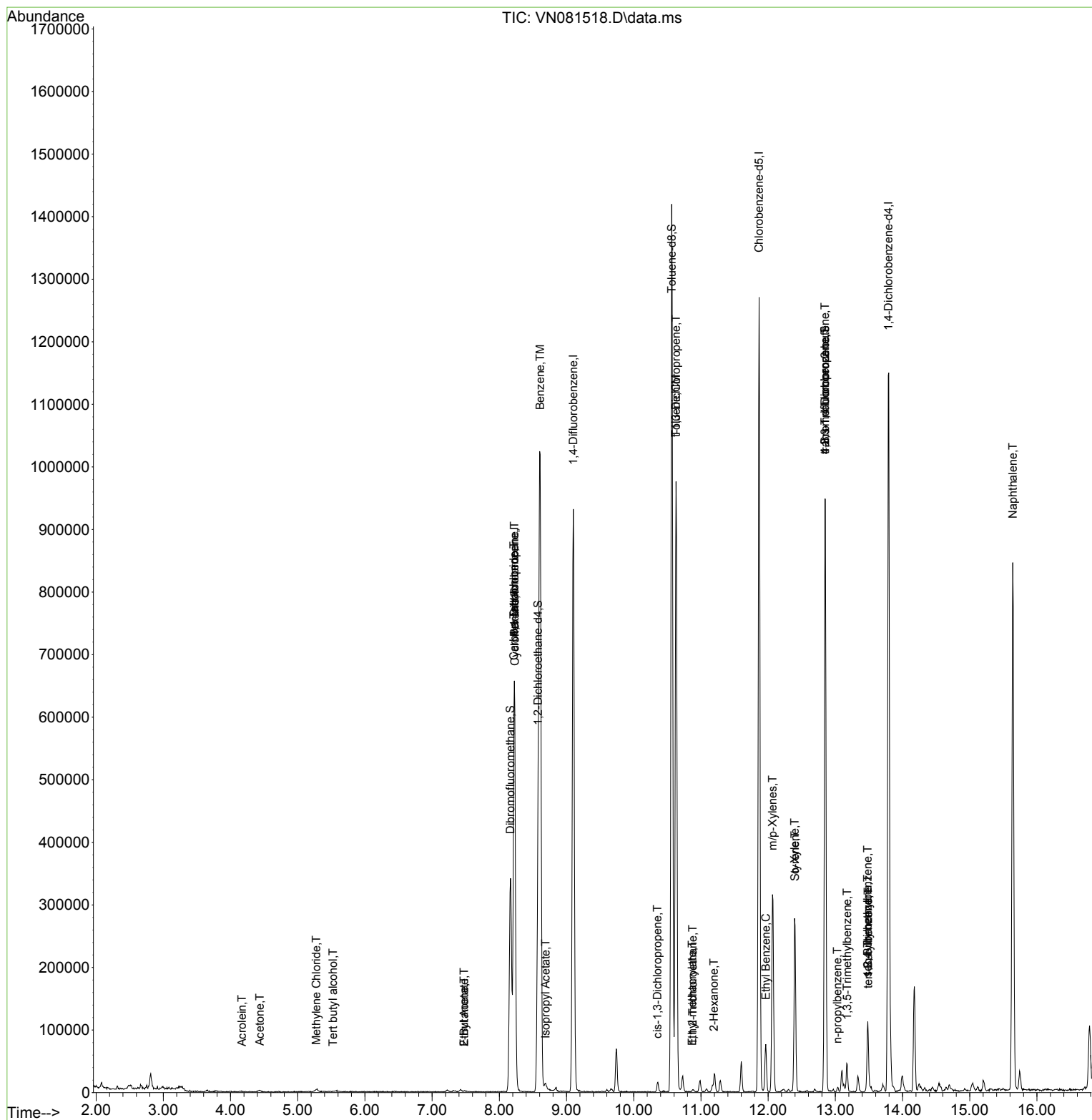
Internal Standards						
1) Pentafluorobenzene	8.224	168	474999	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	9.100	114	835138	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	738189	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	311843	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	297192	49.062	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	98.120%		
35) Dibromofluoromethane	8.165	113	249123	47.267	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	94.540%		
50) Toluene-d8	10.565	98	985654	51.734	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	103.460%		
62) 4-Bromofluorobenzene	12.847	95	327358	48.762	ug/l	0.00
Spiked Amount 50.000	Range 64 - 133		Recovery =	97.520%		
Target Compounds						
						Qvalue
11) Tert butyl alcohol	5.524	59	560	0.530	ug/l	# 72
13) Acrolein	4.171	56	204	0.215	ug/l	# 1
16) Acetone	4.436	43	4621	2.360	ug/l	94
20) Methylene Chloride	5.277	84	3462	0.540	ug/l	# 41
25) 2-Butanone	7.477	43	2407	0.717	ug/l	# 87
31) Cyclohexane	8.230	56	12468	1.265	ug/l	# 6
36) 1,1-Dichloropropene	8.224	75	39116	4.410	ug/l	# 52
37) Ethyl Acetate	7.477	43	2407	0.317	ug/l	# 70
38) Carbon Tetrachloride	8.218	117	49861	5.132	ug/l	# 17
40) Benzene	8.606	78	1008583	38.894	ug/l	97
43) Isopropyl Acetate	8.688	43	11807	0.938	ug/l	# 89
52) Toluene	10.630	92	442230	26.831	ug/l	99
53) t-1,3-Dichloropropene	10.630	75	5277	0.524	ug/l	# 1
54) cis-1,3-Dichloropropene	10.353	75	2765	0.256	ug/l	# 66
55) 1,1,2-Trichloroethane	10.877	97	3495	0.527	ug/l	# 13
56) Ethyl methacrylate	10.871	69	155	0.588	ug/l	# 20
59) 2-Hexanone	11.194	43	4731	0.833	ug/l	70
67) Ethyl Benzene	11.965	91	53062	1.750	ug/l	100
68) m/p-Xylenes	12.065	106	104171	9.167	ug/l	92
69) o-Xylene	12.394	106	74904	6.714	ug/l	97
70) Styrene	12.400	104	11324	0.629	ug/l	# 5
76) 1,2,3-Trichloropropane	12.847	75	165698	22.213	ug/l	# 1
78) n-propylbenzene	13.029	91	6308	0.201	ug/l	89
80) 1,3,5-Trimethylbenzene	13.176	105	23178	1.056	ug/l	92
81) trans-1,4-Dichloro-2-b...	12.847	75	165698	60.027	ug/l	# 14
83) tert-Butylbenzene	13.488	119	7613	0.402	ug/l	# 70
84) 1,2,4-Trimethylbenzene	13.482	105	64250	2.912	ug/l	99
85) sec-Butylbenzene	13.482	105	64250	2.374	ug/l	# 60
95) Naphthalene	15.641	128	792085	36.408	ug/l	99

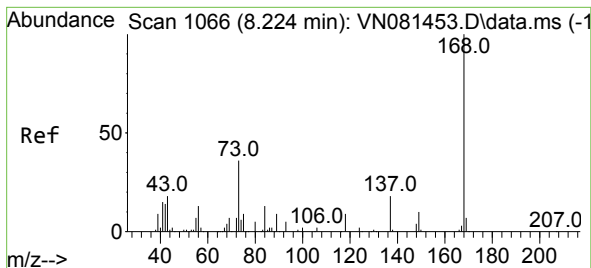
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.224 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN081518.D

Acq: 21 Mar 2024 14:38

Instrument :

MSVOA_N

ClientSampleId :

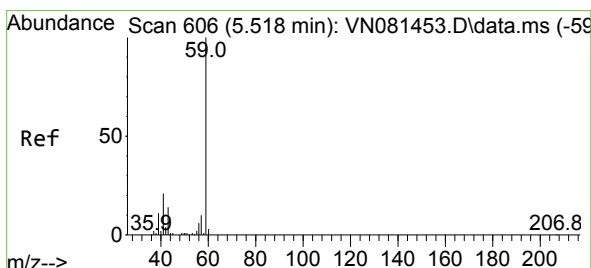
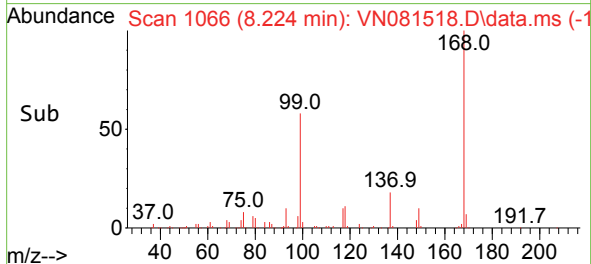
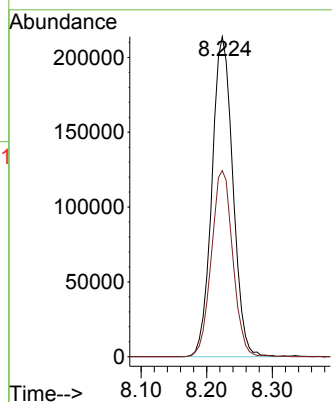
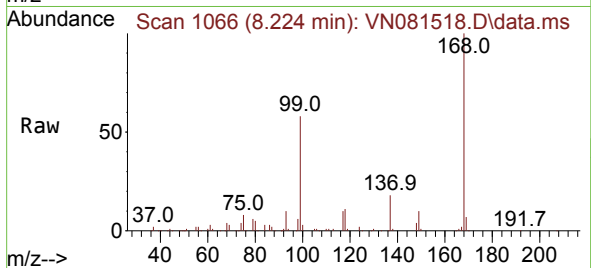
S-1

Tgt Ion:168 Resp: 474999

Ion Ratio Lower Upper

168 100

99 58.2 59.9 89.9#



#11

Tert butyl alcohol

Concen: 0.530 ug/l

RT: 5.524 min Scan# 607

Delta R.T. 0.006 min

Lab File: VN081518.D

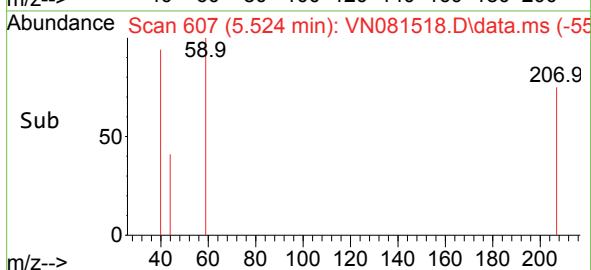
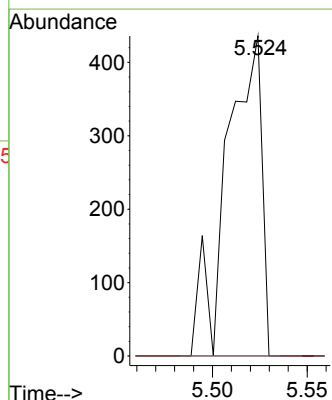
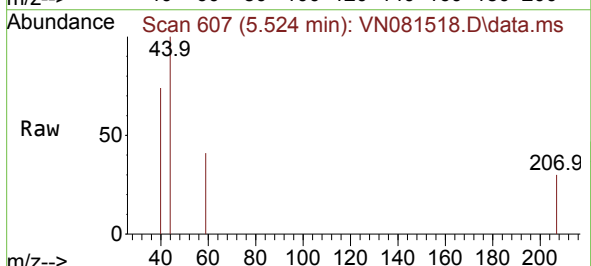
Acq: 21 Mar 2024 14:38

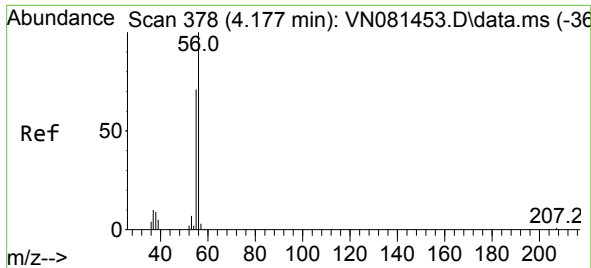
Tgt Ion: 59 Resp: 560

Ion Ratio Lower Upper

59 100

57 0.0 8.6 12.8#

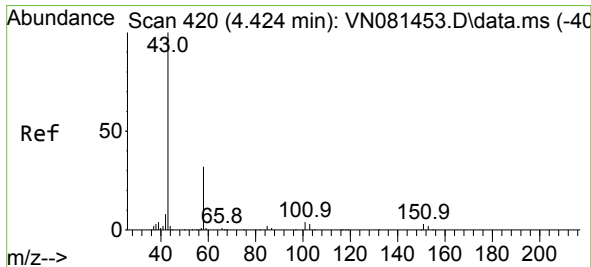
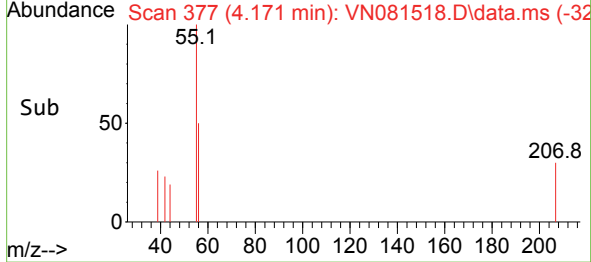
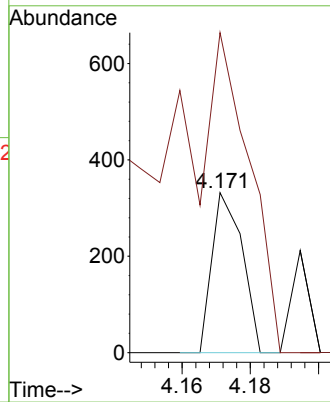
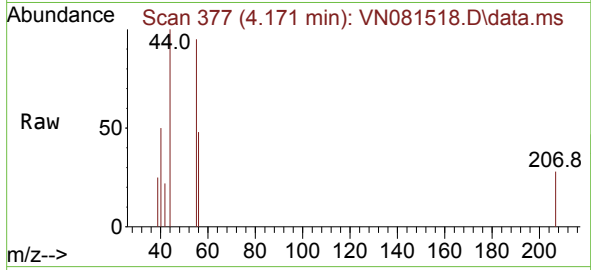




#13
Acrolein
Concen: 0.215 ug/l
RT: 4.171 min Scan# 31
Delta R.T. -0.006 min
Lab File: VN081518.D
Acq: 21 Mar 2024 14:38

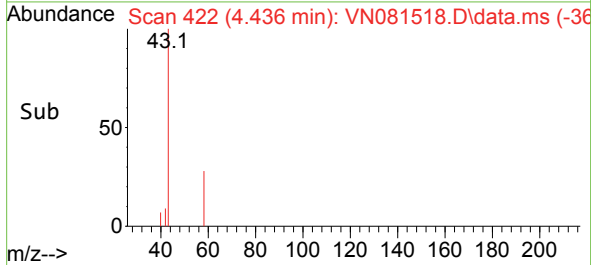
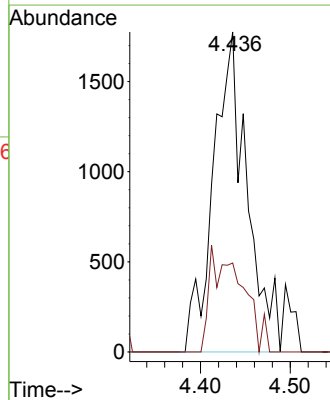
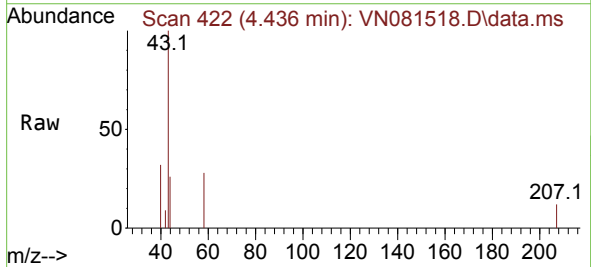
Instrument :
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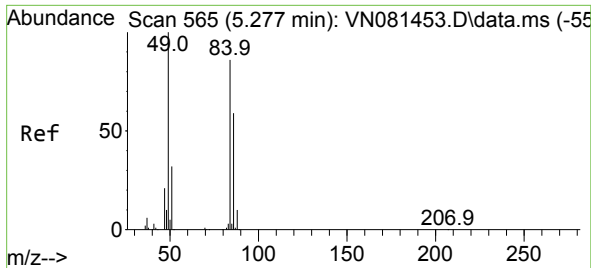
Tgt Ion: 56 Resp: 204
Ion Ratio Lower Upper
56 100
55 737.3 55.3 82.9#



#16
Acetone
Concen: 2.360 ug/l
RT: 4.436 min Scan# 422
Delta R.T. 0.012 min
Lab File: VN081518.D
Acq: 21 Mar 2024 14:38

Tgt Ion: 43 Resp: 4621
Ion Ratio Lower Upper
43 100
58 27.8 24.8 37.2

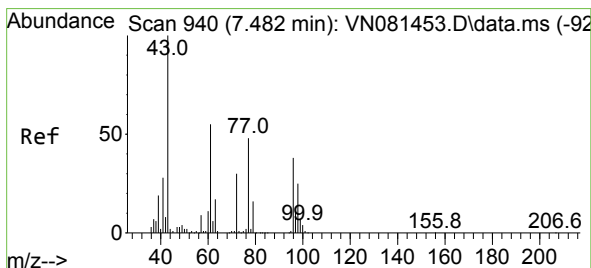
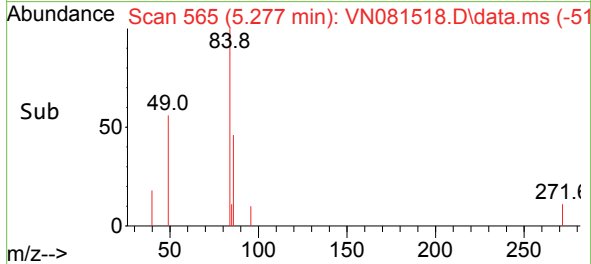
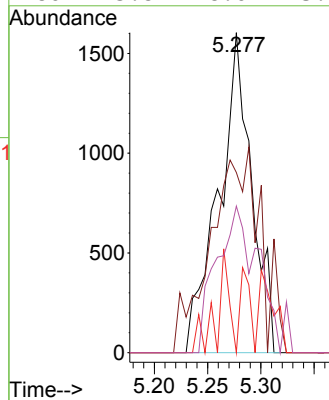
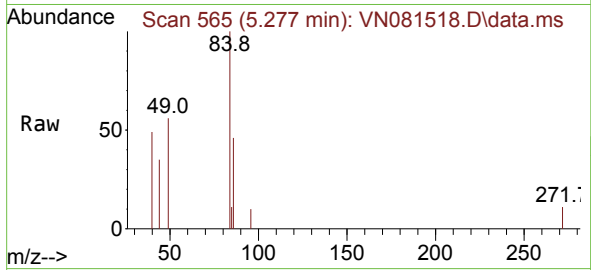




#20
Methylene Chloride
Concen: 0.540 ug/l
RT: 5.277 min Scan# 50
Delta R.T. 0.000 min
Lab File: VN081518.D
Acq: 21 Mar 2024 14:38

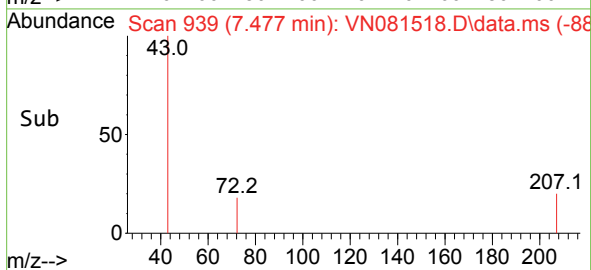
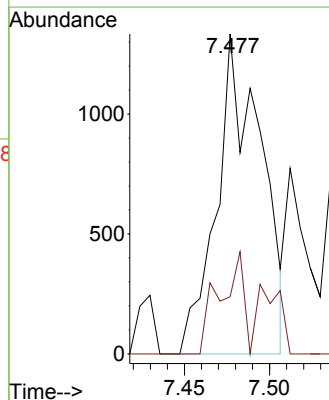
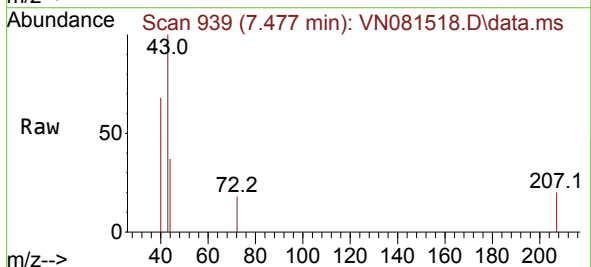
Instrument :
MSVOA_N
ClientSampleId :
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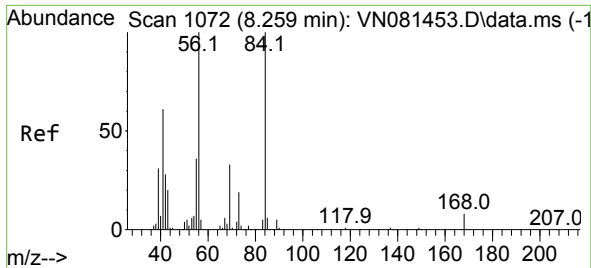
Tgt Ion:	84	Resp:	3462
Ion	Ratio	Lower	Upper
84	100		
49	45.8	108.1	162.1#
51	0.0	32.9	49.3#
86	45.8	48.6	73.0#



#25
2-Butanone
Concen: 0.717 ug/l
RT: 7.477 min Scan# 939
Delta R.T. -0.006 min
Lab File: VN081518.D
Acq: 21 Mar 2024 14:38

Tgt Ion:	43	Resp:	2407
Ion	Ratio	Lower	Upper
43	100		
72	17.8	19.5	29.3#

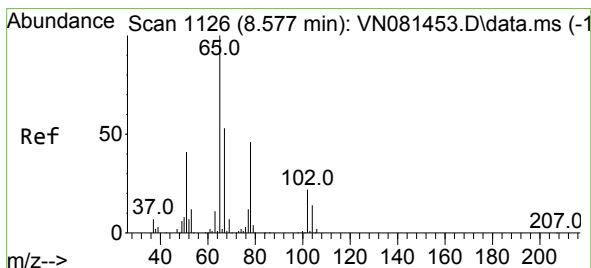
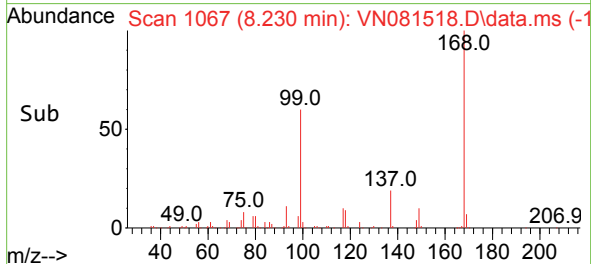
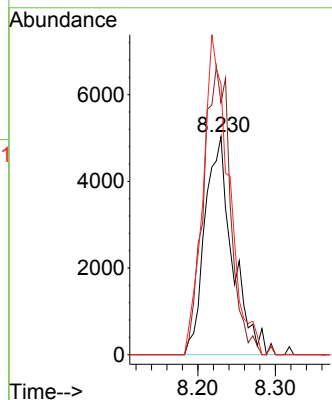
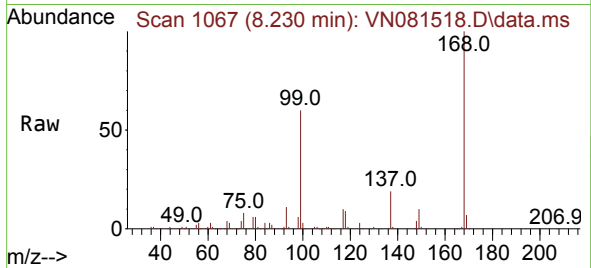




#31
Cyclohexane
Concen: 1.265 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.029 min
Lab File: VN081518.D
Acq: 21 Mar 2024 14:38

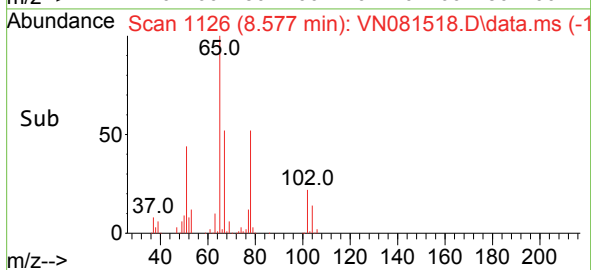
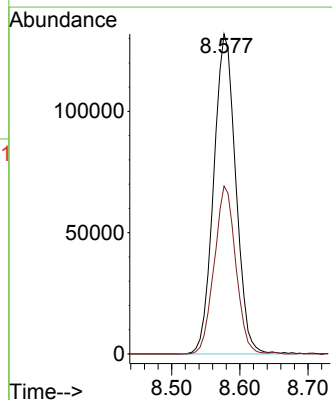
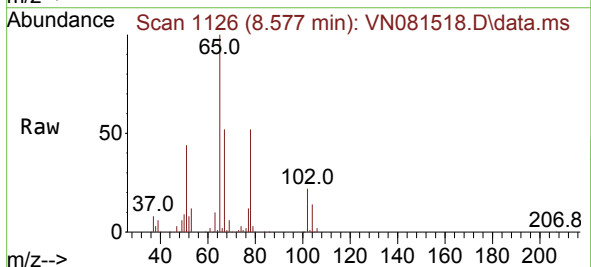
Instrument :
MSVOA_N
ClientSampleId :
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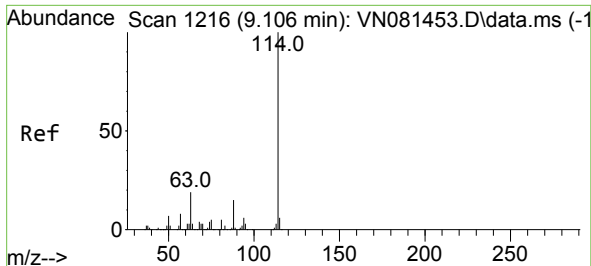
Tgt Ion: 56 Resp: 12468
Ion Ratio Lower Upper
56 100
69 115.5 20.1 30.1#
84 124.0 56.9 85.3#



#33
1,2-Dichloroethane-d4
Concen: 49.062 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. 0.000 min
Lab File: VN081518.D
Acq: 21 Mar 2024 14:38

Tgt Ion: 65 Resp: 297192
Ion Ratio Lower Upper
65 100
67 51.1 0.0 102.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 114

Delta R.T. -0.006 min

Lab File: VN081518.D

Acq: 21 Mar 2024 14:38

Instrument :

MSVOA_N

ClientSampleId :

S-1

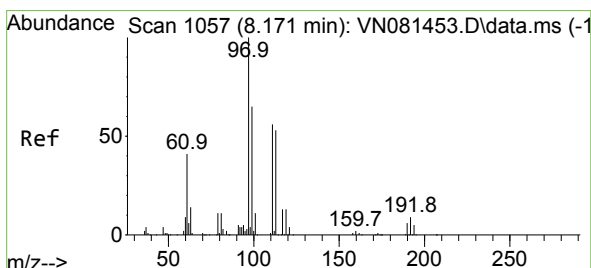
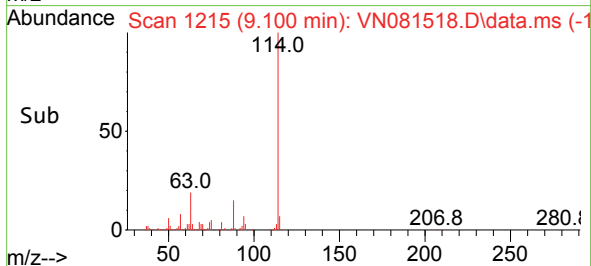
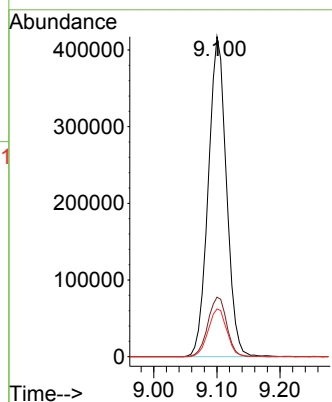
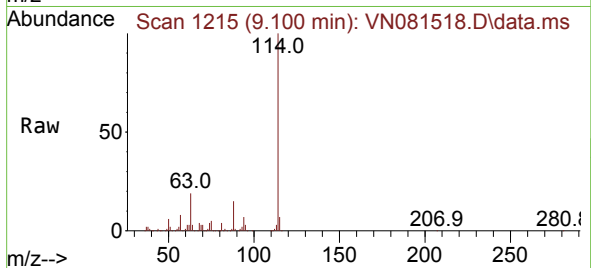
Tgt Ion:114 Resp: 835138

Ion Ratio Lower Upper

114 100

63 18.6 0.0 48.0

88 14.9 0.0 34.8



#35

Dibromofluoromethane

Concen: 47.267 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.006 min

Lab File: VN081518.D

Acq: 21 Mar 2024 14:38

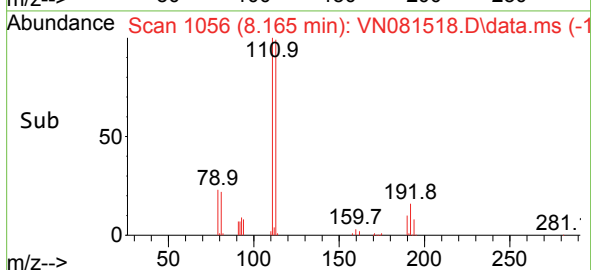
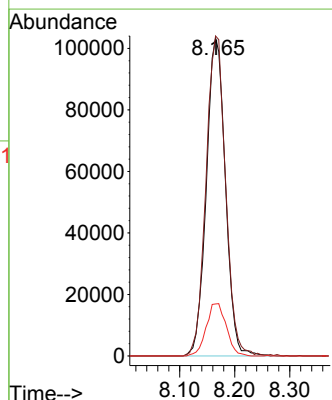
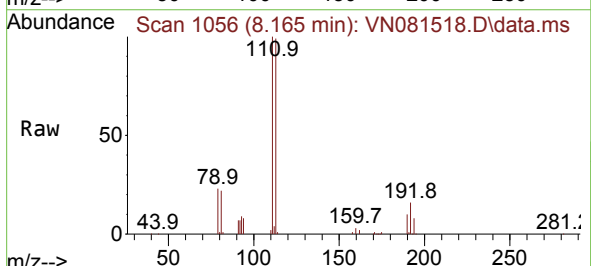
Tgt Ion:113 Resp: 249123

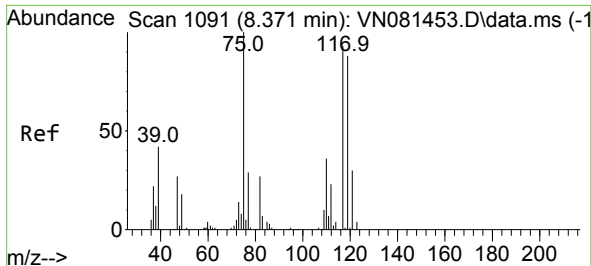
Ion Ratio Lower Upper

113 100

111 103.5 82.2 123.4

192 17.4 12.5 18.7





#36

1,1-Dichloropropene

Concen: 4.410 ug/l

RT: 8.224 min Scan# 1

Delta R.T. -0.147 min

Lab File: VN081518.D

Acq: 21 Mar 2024 14:38

Instrument :

MSVOA_N

ClientSampleId :

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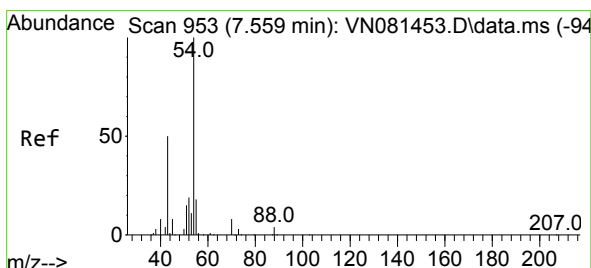
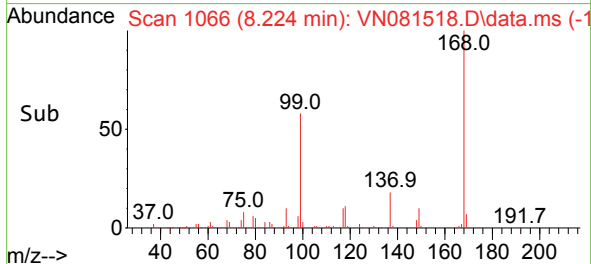
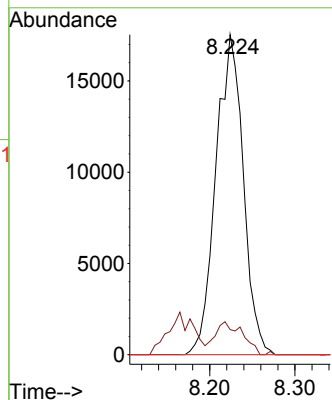
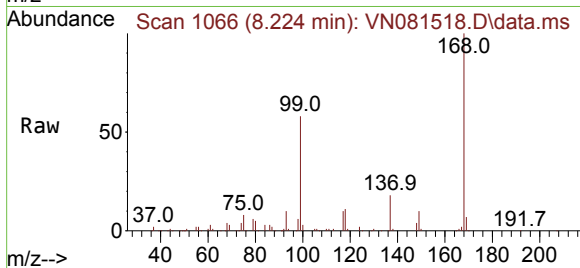
Tgt Ion: 75 Resp: 39116

Ion Ratio Lower Upper

75 100

110 10.3 16.0 48.0#

77 0.0 25.8 38.6#



#37

Ethyl Acetate

Concen: 0.317 ug/l

RT: 7.477 min Scan# 939

Delta R.T. -0.082 min

Lab File: VN081518.D

Acq: 21 Mar 2024 14:38

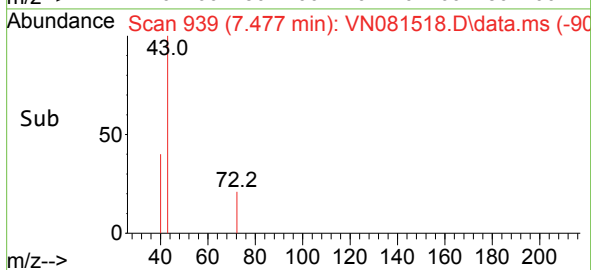
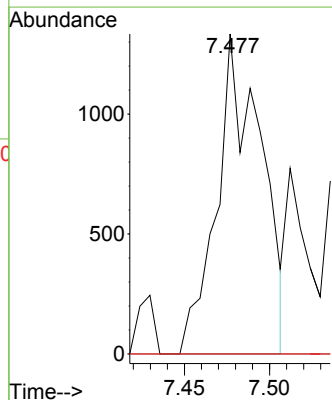
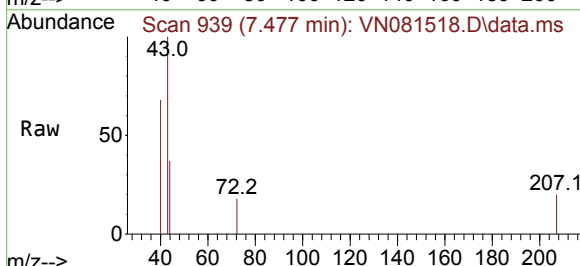
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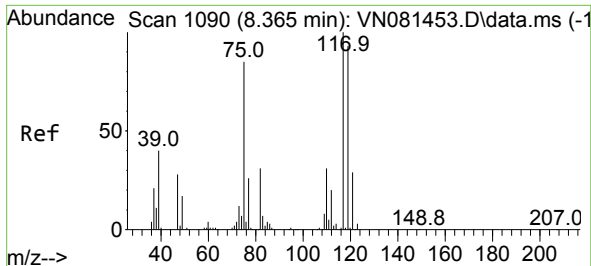
Ion Ratio Lower Upper

43 100

61 0.0 10.6 15.8#

70 0.0 8.0 12.0#

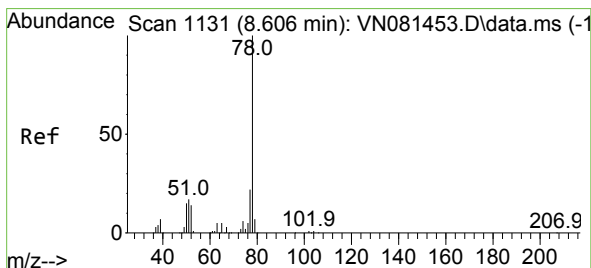
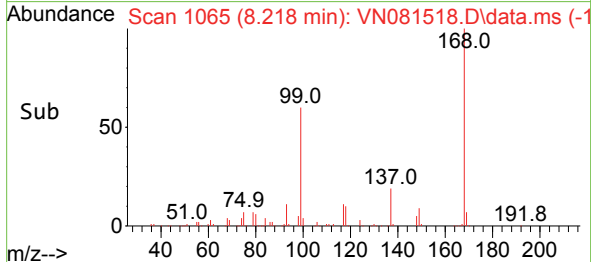
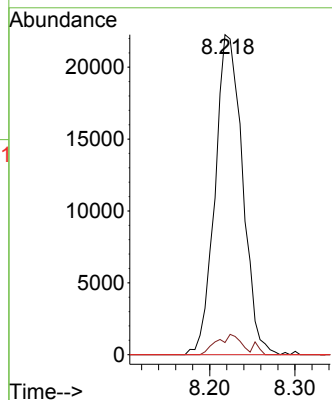
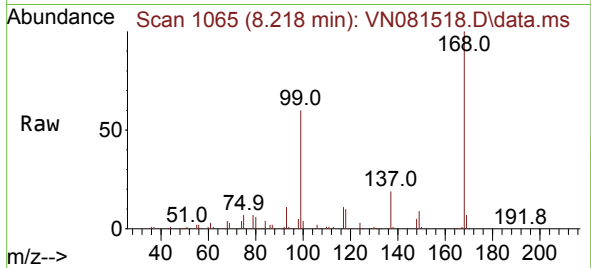




#38
Carbon Tetrachloride
Concen: 5.132 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.147 min
Lab File: VN081518.D
Acq: 21 Mar 2024 14:38

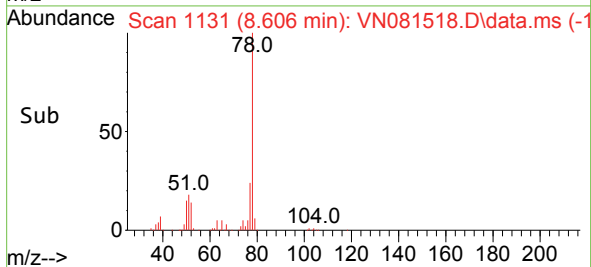
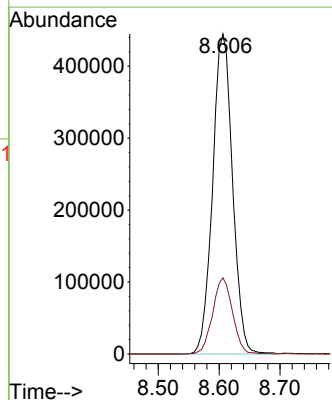
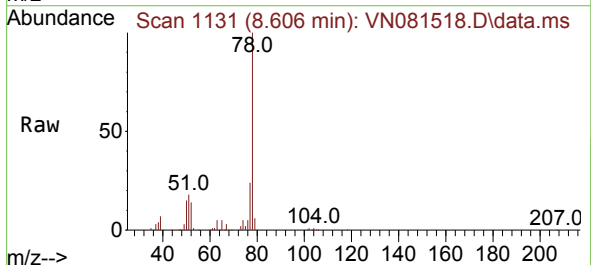
Instrument :
MSVOA_N
ClientSampleId :
S-1

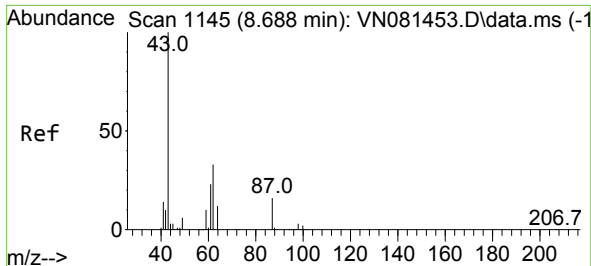
Tgt Ion:117 Resp: 49861
Ion Ratio Lower Upper
117 100
119 3.8 73.4 110.2#
121 0.0 24.4 36.6#



#40
Benzene
Concen: 38.894 ug/l
RT: 8.606 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VN081518.D
Acq: 21 Mar 2024 14:38

Tgt Ion: 78 Resp: 1008583
Ion Ratio Lower Upper
78 100
77 23.8 20.4 30.6

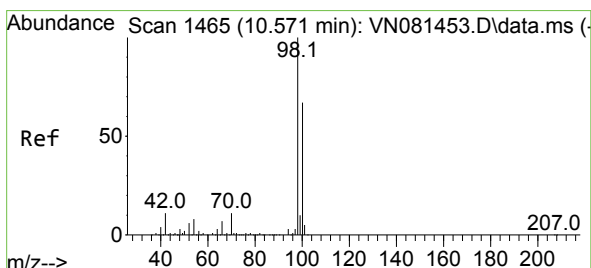
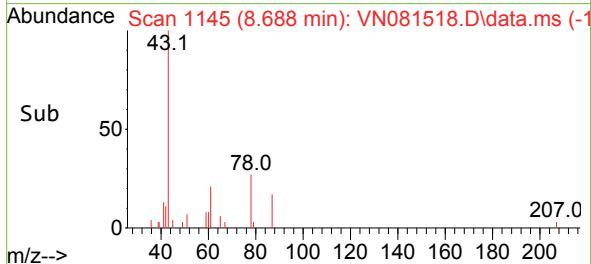
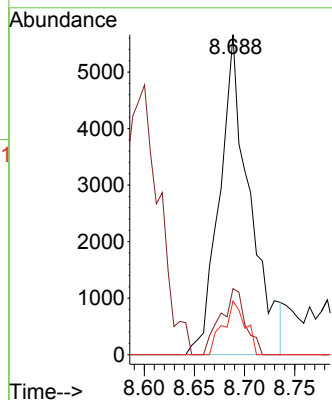
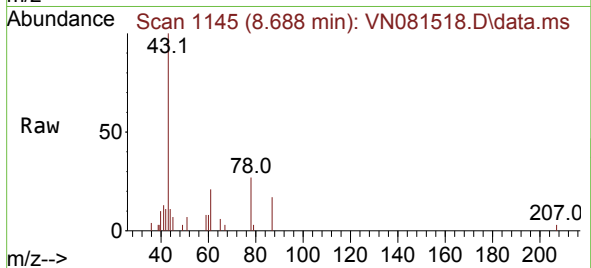




#43
Isopropyl Acetate
Concen: 0.938 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. 0.000 min
Lab File: VN081518.D
Acq: 21 Mar 2024 14:38

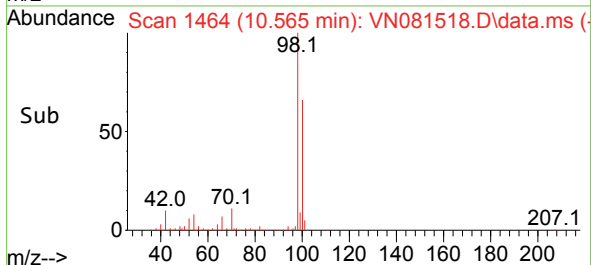
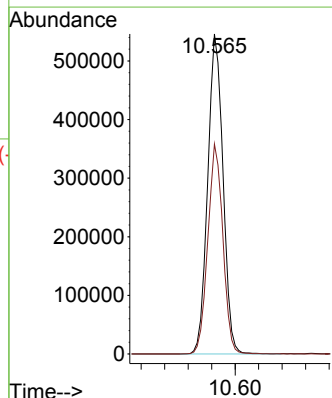
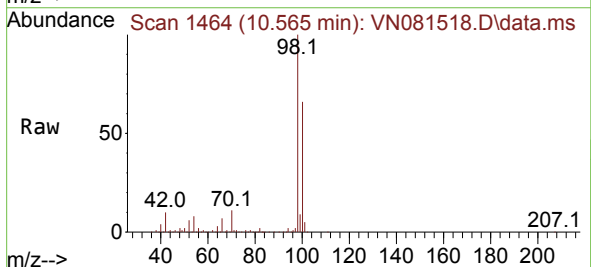
Instrument :
MSVOA_N
ClientSampleId :
S-1

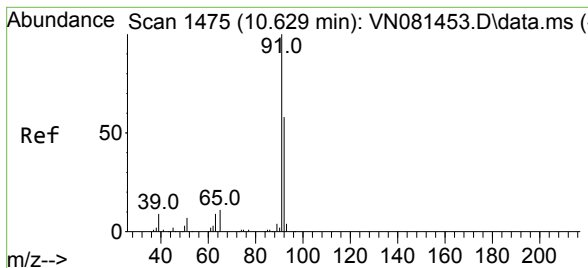
Tgt Ion: 43 Resp: 11807
Ion Ratio Lower Upper
43 100
61 17.1 19.9 29.9#
87 12.3 9.0 13.6



#50
Toluene-d8
Concen: 51.734 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.006 min
Lab File: VN081518.D
Acq: 21 Mar 2024 14:38

Tgt Ion: 98 Resp: 985654
Ion Ratio Lower Upper
98 100
100 64.5 51.4 77.0





#52

Toluene

Concen: 26.831 ug/l

RT: 10.630 min Scan# 1475

Delta R.T. 0.000 min

Lab File: VN081518.D

Acq: 21 Mar 2024 14:38

Instrument :

MSVOA_N

ClientSampleId :

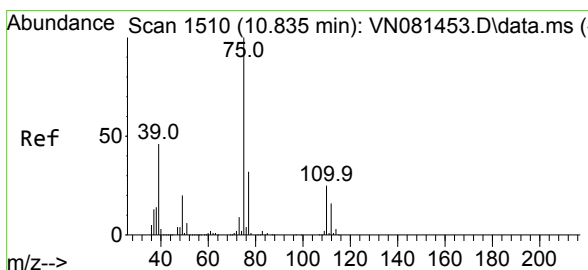
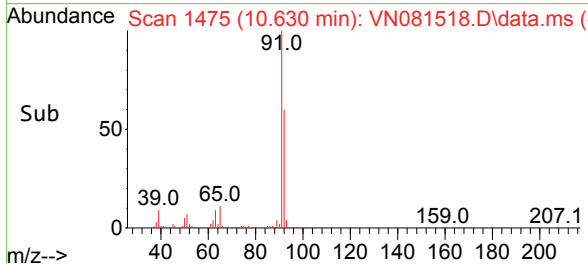
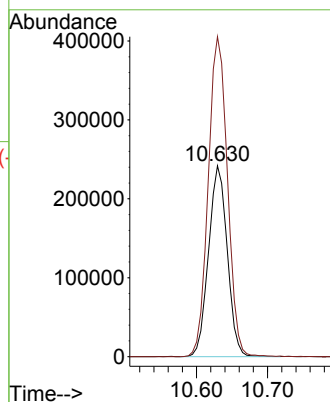
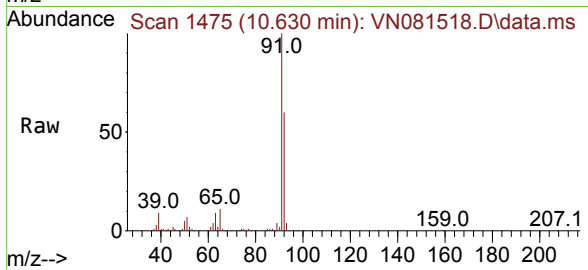
S-1

Tgt Ion: 92 Resp: 442230

Ion Ratio Lower Upper

92 100

91 172.5 139.4 209.0



#53

t-1,3-Dichloropropene

Concen: 0.524 ug/l

RT: 10.630 min Scan# 1475

Delta R.T. -0.206 min

Lab File: VN081518.D

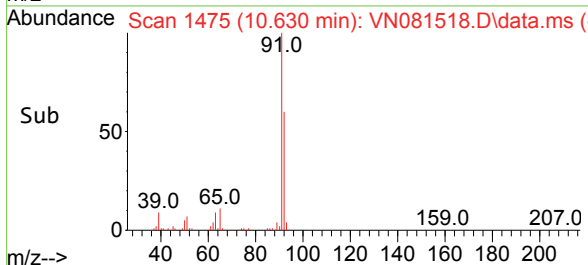
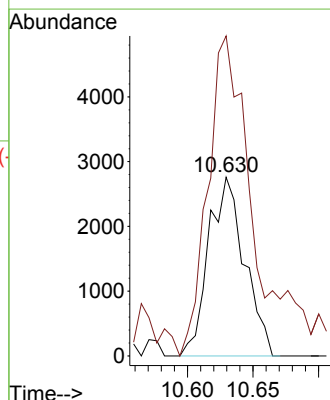
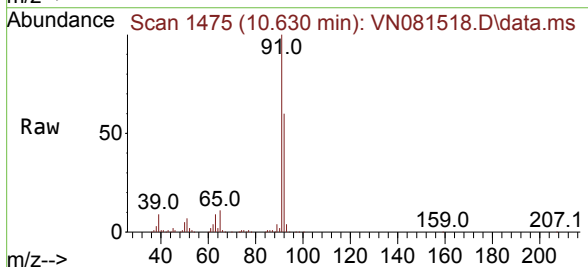
Acq: 21 Mar 2024 14:38

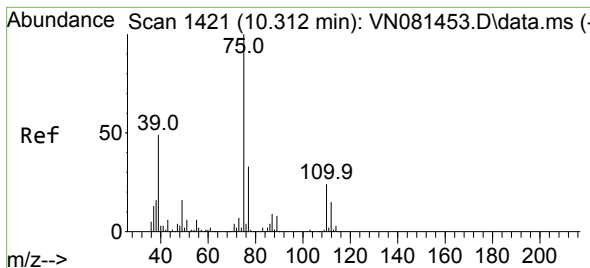
Tgt Ion: 75 Resp: 5277

Ion Ratio Lower Upper

75 100

77 179.1 25.5 38.3#

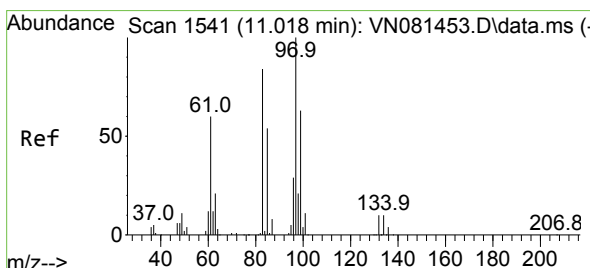
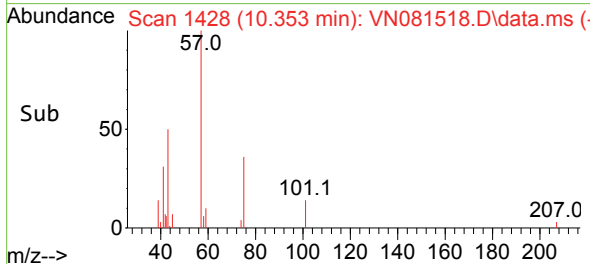
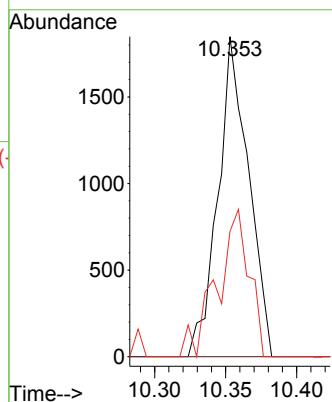
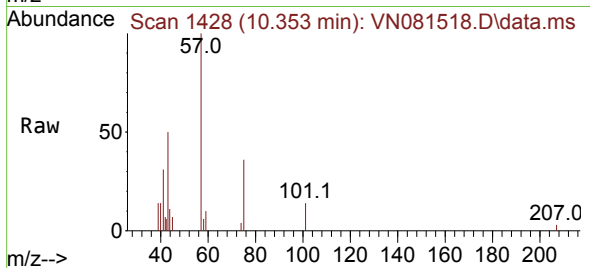




#54
 cis-1,3-Dichloropropene
 Concen: 0.256 ug/l
 RT: 10.353 min Scan# 1428
 Delta R.T. 0.041 min
 Lab File: VN081518.D
 Acq: 21 Mar 2024 14:38

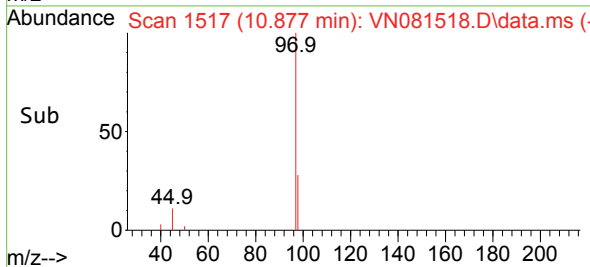
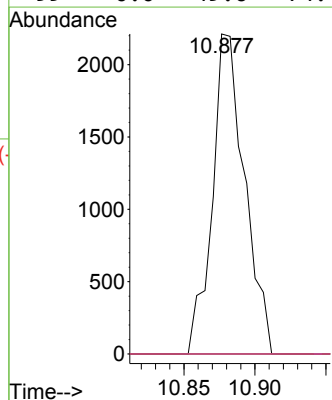
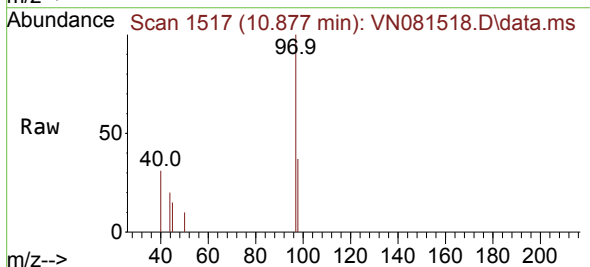
Instrument :
 MSVOA_N
 ClientSampleId :
 S-1

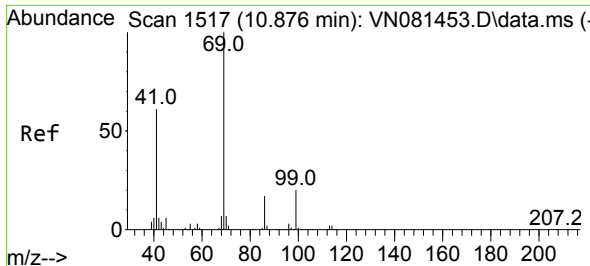
Tgt Ion: 75 Resp: 2765
 Ion Ratio Lower Upper
 75 100
 77 0.0 23.3 34.9#
 39 39.2 44.6 66.8#



#55
 1,1,2-Trichloroethane
 Concen: 0.527 ug/l
 RT: 10.877 min Scan# 1517
 Delta R.T. -0.141 min
 Lab File: VN081518.D
 Acq: 21 Mar 2024 14:38

Tgt Ion: 97 Resp: 3495
 Ion Ratio Lower Upper
 97 100
 83 0.0 72.9 109.3#
 85 0.0 50.2 75.2#
 99 0.0 49.6 74.4#

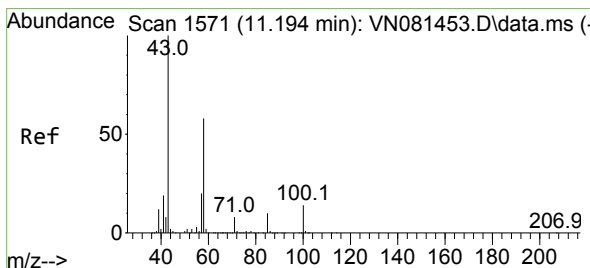
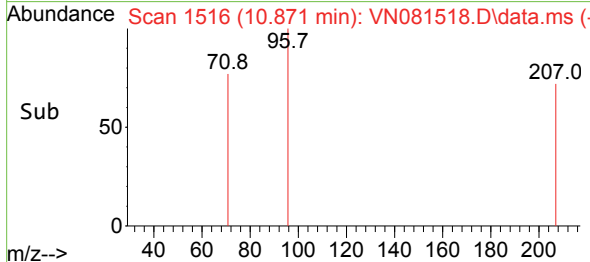
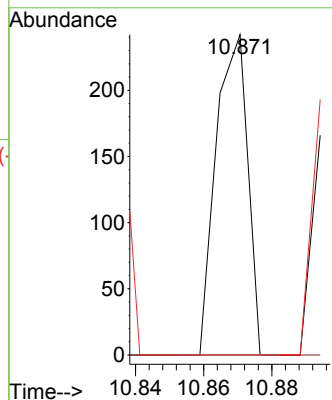
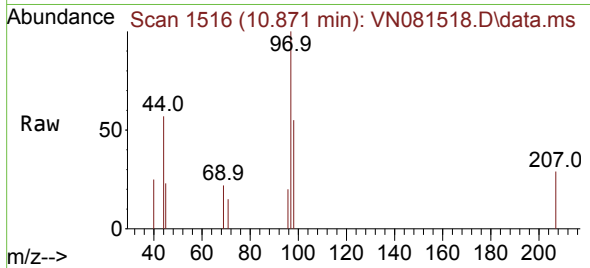




#56
Ethyl methacrylate
Concen: 0.588 ug/l
RT: 10.871 min Scan# 1516
Delta R.T. -0.005 min
Lab File: VN081518.D
Acq: 21 Mar 2024 14:38

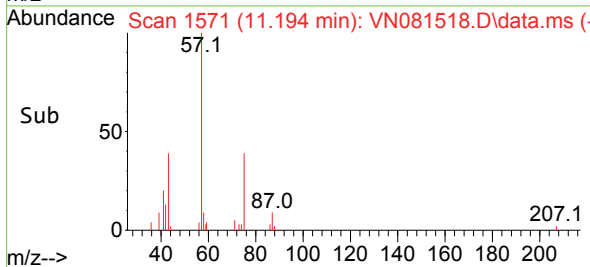
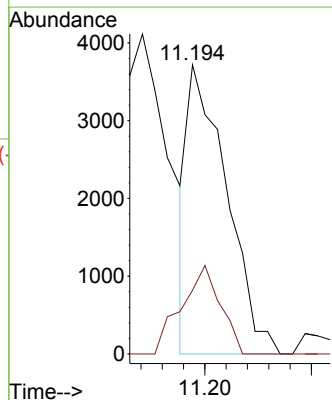
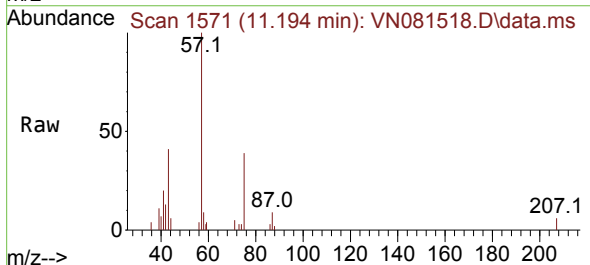
Instrument :
MSVOA_N
ClientSampleId :
S-1

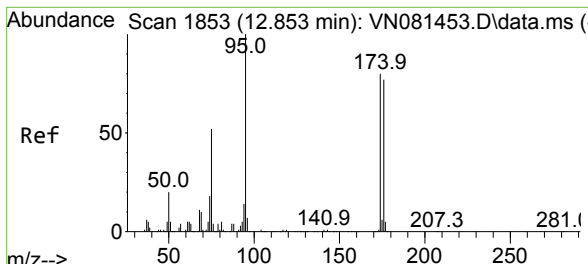
Tgt Ion: 69 Resp: 155
Ion Ratio Lower Upper
69 100
41 0.0 61.0 91.6#
39 0.0 31.8 47.6#



#59
2-Hexanone
Concen: 0.833 ug/l
RT: 11.194 min Scan# 1571
Delta R.T. 0.000 min
Lab File: VN081518.D
Acq: 21 Mar 2024 14:38

Tgt Ion: 43 Resp: 4731
Ion Ratio Lower Upper
43 100
58 30.5 25.9 77.8

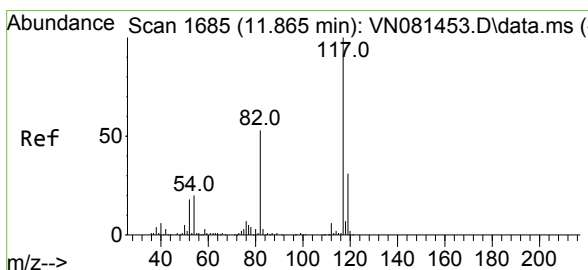
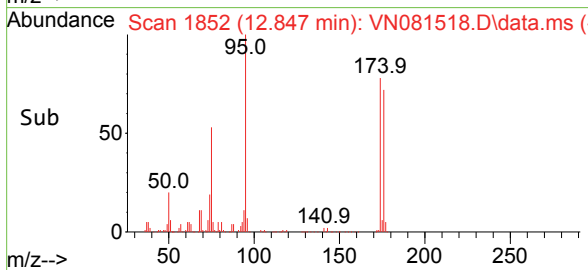
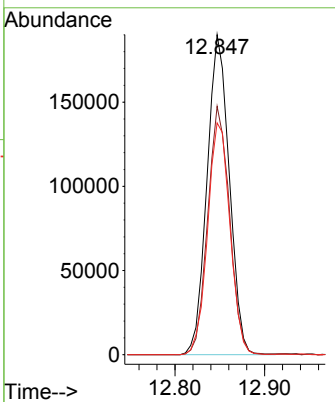
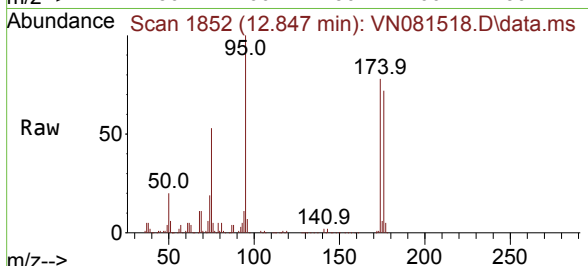




#62
 4-Bromofluorobenzene
 Concen: 48.762 ug/l
 RT: 12.847 min Scan# 1852
 Delta R.T. -0.006 min
 Lab File: VN081518.D
 Acq: 21 Mar 2024 14:38

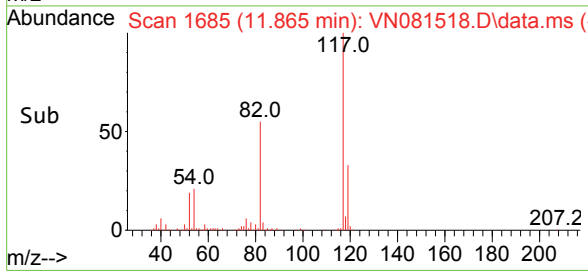
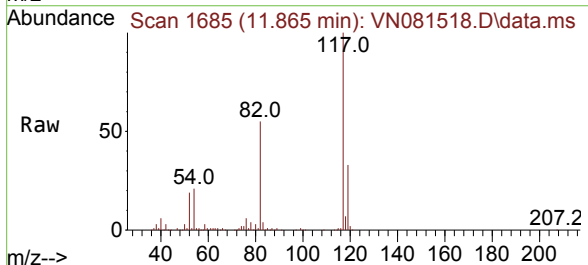
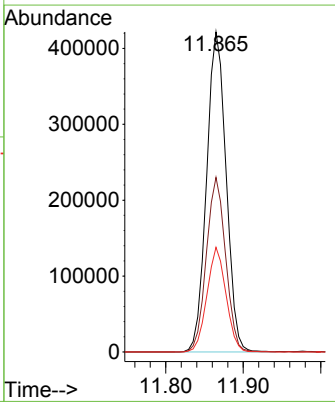
Instrument :
 MSVOA_N
 ClientSampleId :
 S-1

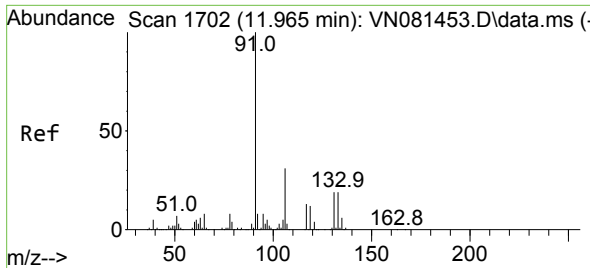
Tgt Ion:	95	Resp:	327358
Ion	Ratio	Lower	Upper
95	100		
174	76.2	0.0	120.4
176	72.7	0.0	121.0



#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 11.865 min Scan# 1685
 Delta R.T. 0.000 min
 Lab File: VN081518.D
 Acq: 21 Mar 2024 14:38

Tgt Ion:	117	Resp:	738189
Ion	Ratio	Lower	Upper
117	100		
82	54.5	52.7	79.1
119	32.7	25.3	37.9

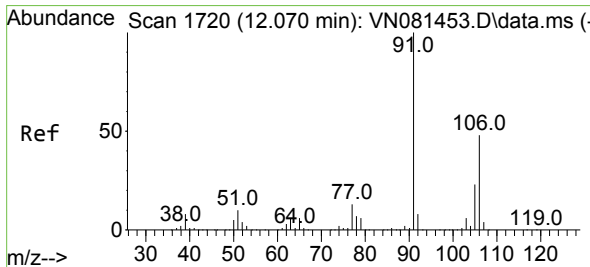
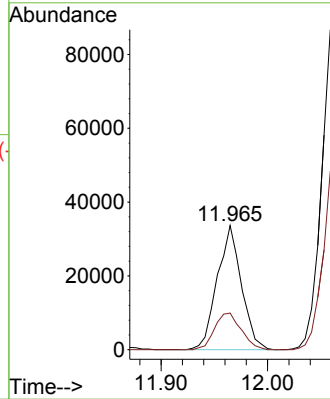
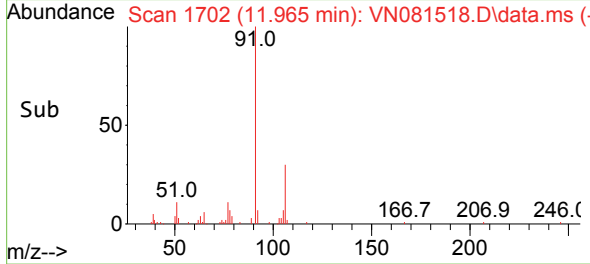
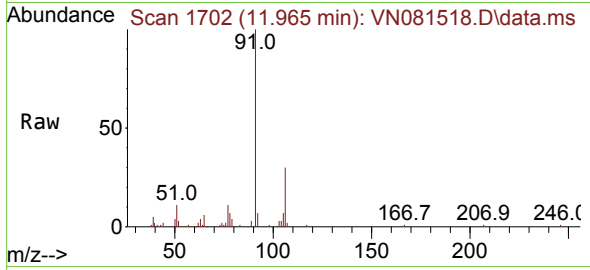




#67
Ethyl Benzene
Concen: 1.750 ug/l
RT: 11.965 min Scan# 1719
Delta R.T. 0.000 min
Lab File: VN081518.D
Acq: 21 Mar 2024 14:38

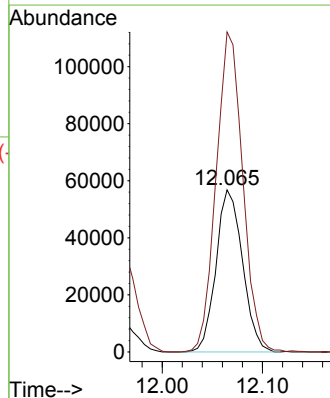
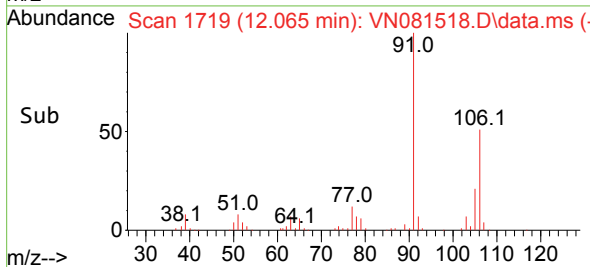
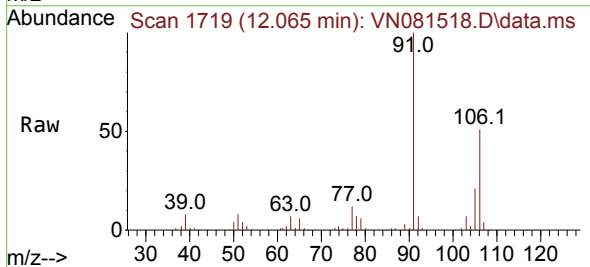
Instrument :
MSVOA_N
ClientSampleId :
S-1

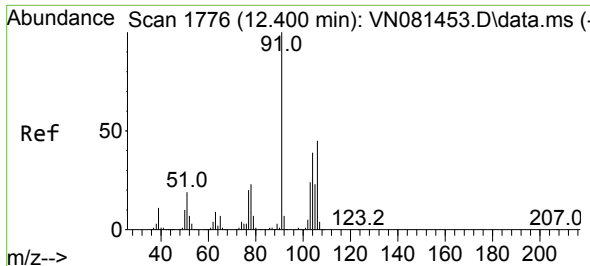
Tgt Ion: 91 Resp: 53062
Ion Ratio Lower Upper
91 100
106 29.5 23.8 35.6



#68
m/p-Xylenes
Concen: 9.167 ug/l
RT: 12.065 min Scan# 1719
Delta R.T. -0.006 min
Lab File: VN081518.D
Acq: 21 Mar 2024 14:38

Tgt Ion:106 Resp: 104171
Ion Ratio Lower Upper
106 100
91 198.8 169.0 253.6

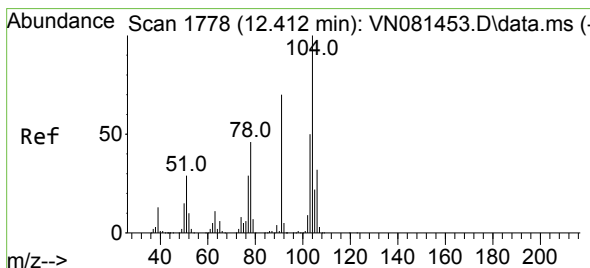
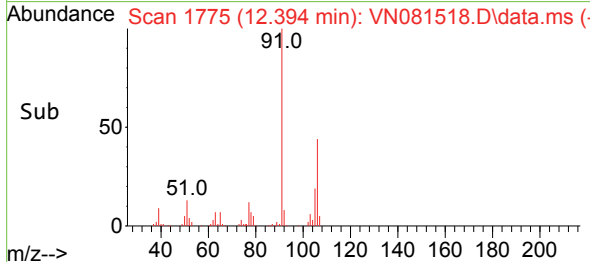
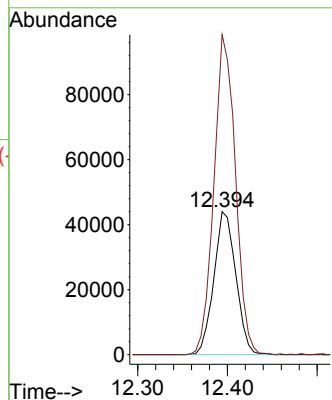
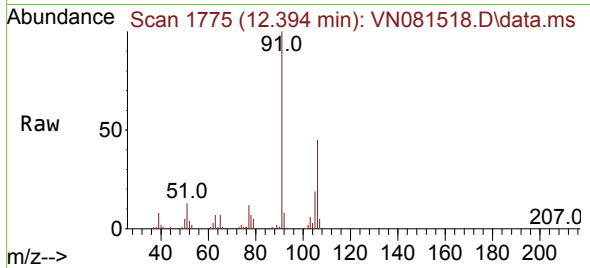




#69
o-Xylene
Concen: 6.714 ug/l
RT: 12.394 min Scan# 1775
Delta R.T. -0.006 min
Lab File: VN081518.D
Acq: 21 Mar 2024 14:38

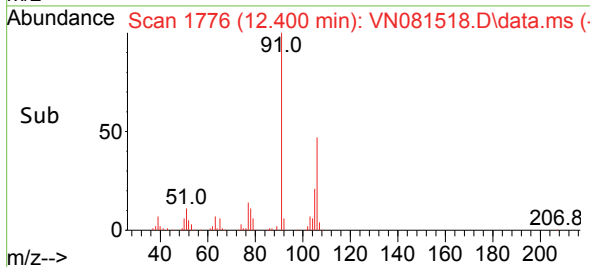
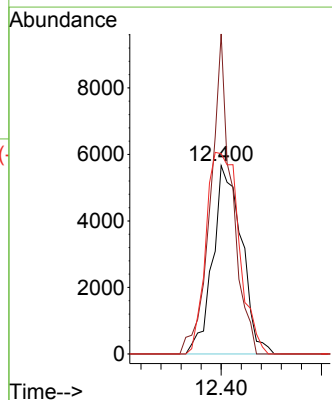
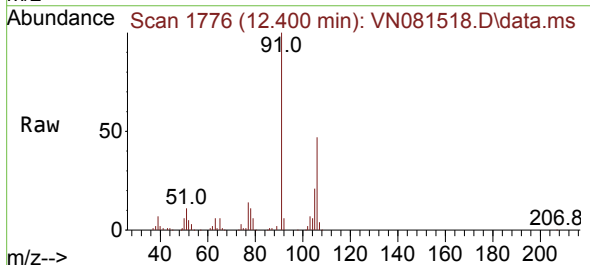
Instrument :
MSVOA_N
ClientSampleId :
S-1

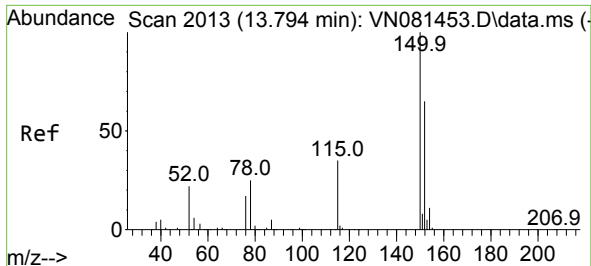
Tgt Ion:106 Resp: 74904
Ion Ratio Lower Upper
106 100
91 219.1 112.1 336.3



#70
Styrene
Concen: 0.629 ug/l
RT: 12.400 min Scan# 1776
Delta R.T. -0.012 min
Lab File: VN081518.D
Acq: 21 Mar 2024 14:38

Tgt Ion:104 Resp: 11324
Ion Ratio Lower Upper
104 100
78 124.7 43.8 65.8#
103 122.4 44.2 66.2#

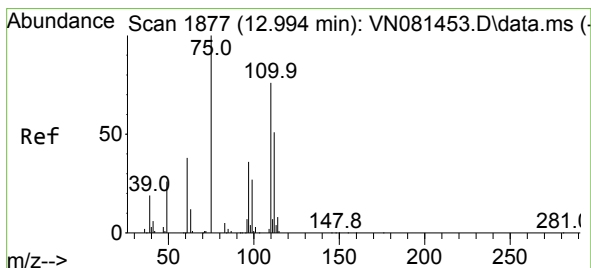
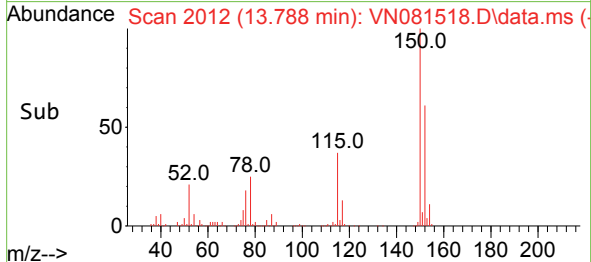
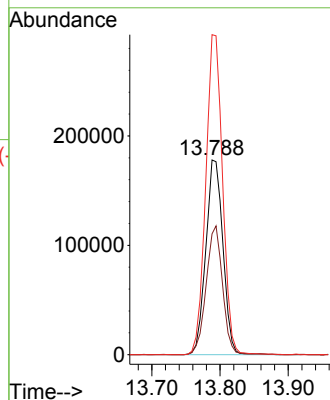
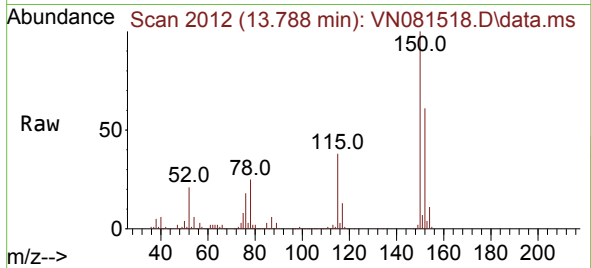




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2013
Delta R.T. -0.006 min
Lab File: VN081518.D
Acq: 21 Mar 2024 14:38

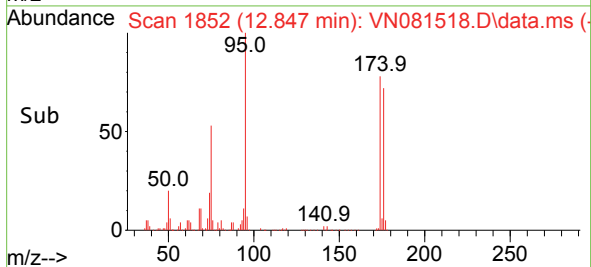
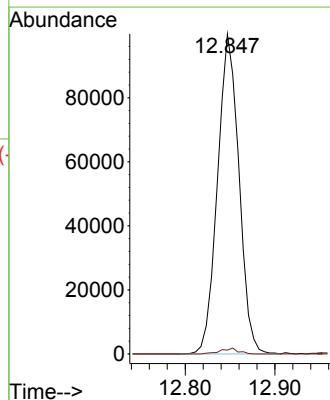
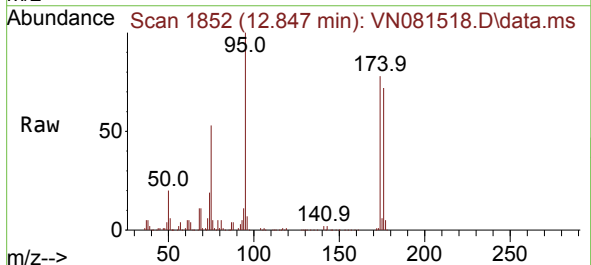
Instrument :
MSVOA_N
ClientSampleId :
S-1

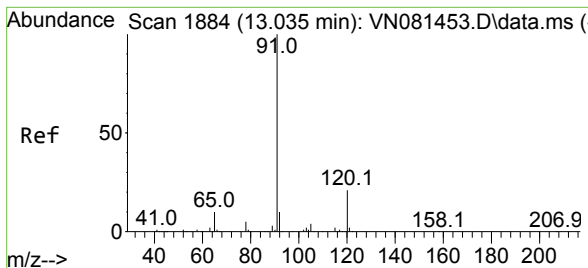
Tgt Ion:152 Resp: 311843
Ion Ratio Lower Upper
152 100
115 63.0 32.3 96.8
150 160.9 0.0 339.8



#76
1,2,3-Trichloropropane
Concen: 22.213 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN081518.D
Acq: 21 Mar 2024 14:38

Tgt Ion: 75 Resp: 165698
Ion Ratio Lower Upper
75 100
77 1.5 91.0 272.8#





#78

n-propylbenzene

Concen: 0.201 ug/l

RT: 13.029 min Scan# 1883

Delta R.T. -0.006 min

Lab File: VN081518.D

Acq: 21 Mar 2024 14:38

Instrument :

MSVOA_N

ClientSampleId :

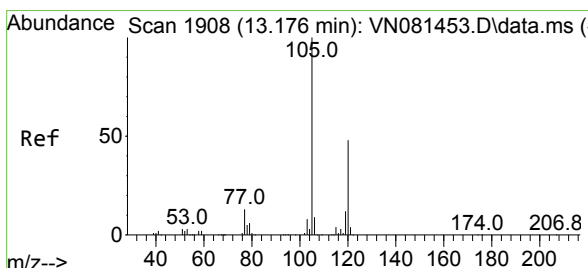
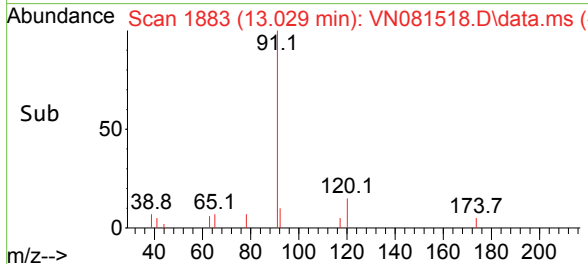
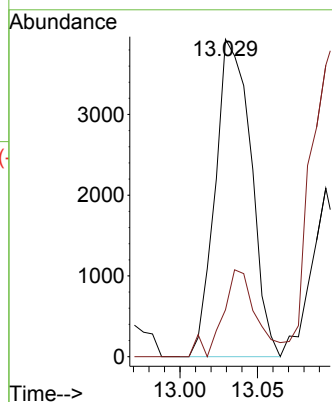
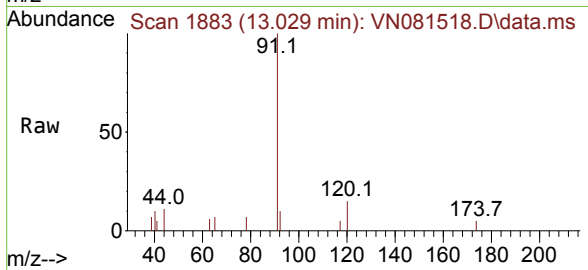
S-1

Tgt Ion: 91 Resp: 6308

Ion Ratio Lower Upper

91 100

120 25.8 10.3 30.9



#80

1,3,5-Trimethylbenzene

Concen: 1.056 ug/l

RT: 13.176 min Scan# 1908

Delta R.T. 0.000 min

Lab File: VN081518.D

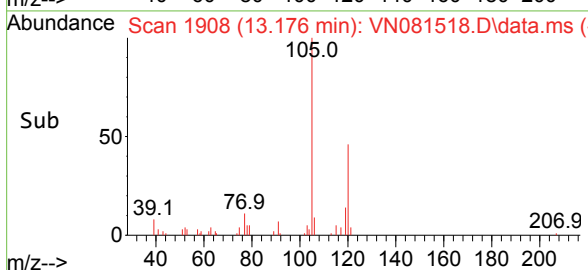
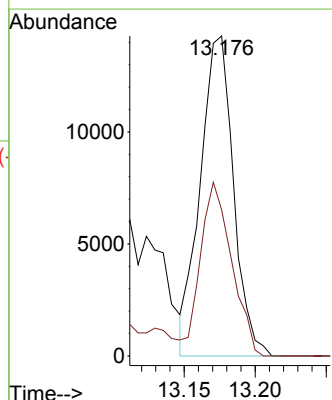
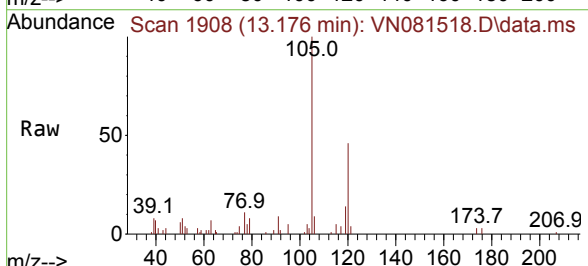
Acq: 21 Mar 2024 14:38

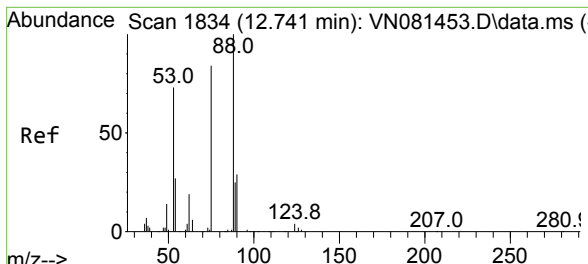
Tgt Ion:105 Resp: 23178

Ion Ratio Lower Upper

105 100

120 51.3 23.0 69.0

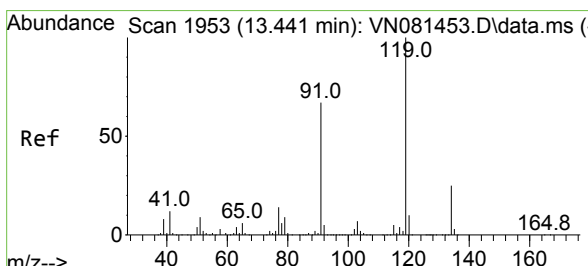
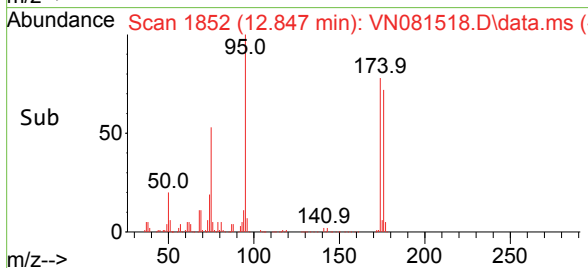
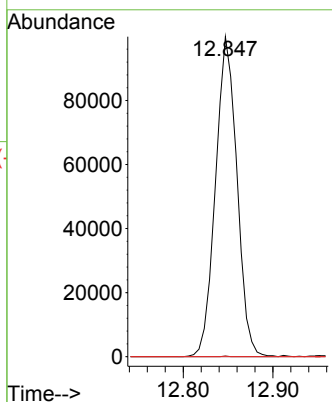
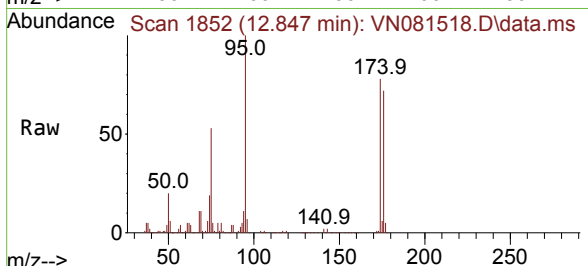




#81
 trans-1,4-Dichloro-2-butene
 Concen: 60.027 ug/l
 RT: 12.847 min Scan# 11
 Delta R.T. 0.106 min
 Lab File: VN081518.D
 Acq: 21 Mar 2024 14:38

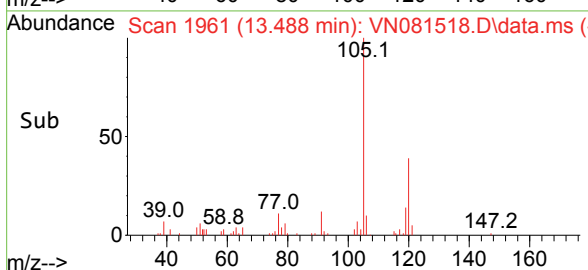
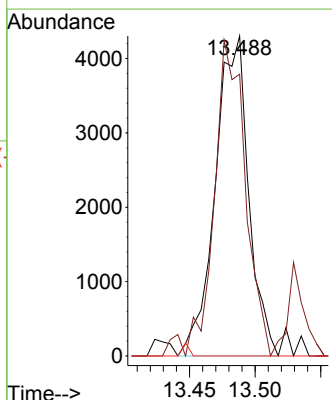
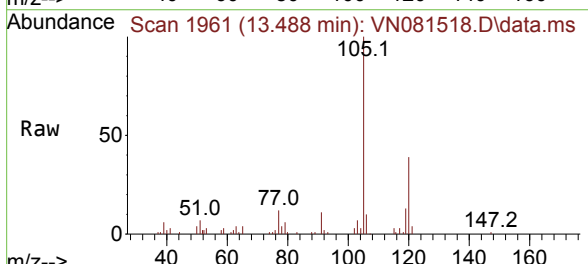
Instrument :
 MSVOA_N
 ClientSampleId :
 S-1

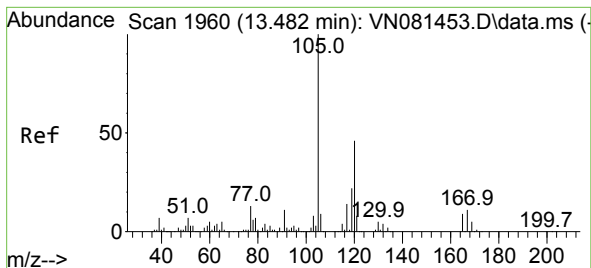
Tgt Ion:	75	Resp:	165698
Ion Ratio	Lower	Upper	
75	100		
53	0.0	71.4	107.2#
89	0.0	33.4	50.0#



#83
 tert-Butylbenzene
 Concen: 0.402 ug/l
 RT: 13.488 min Scan# 1961
 Delta R.T. 0.047 min
 Lab File: VN081518.D
 Acq: 21 Mar 2024 14:38

Tgt Ion:	119	Resp:	7613
Ion Ratio	Lower	Upper	
119	100		
91	93.6	36.8	110.4
134	0.0	12.4	37.4#





#84

1,2,4-Trimethylbenzene

Concen: 2.912 ug/l

RT: 13.482 min Scan# 1960

Delta R.T. 0.000 min

Lab File: VN081518.D

Acq: 21 Mar 2024 14:38

Instrument :

MSVOA_N

ClientSampleId :

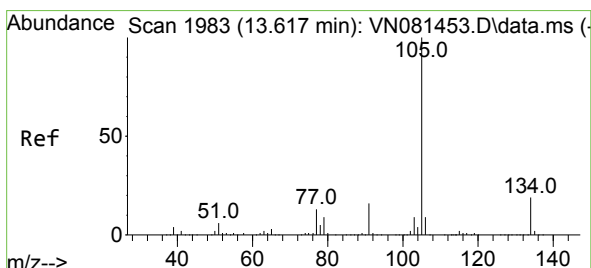
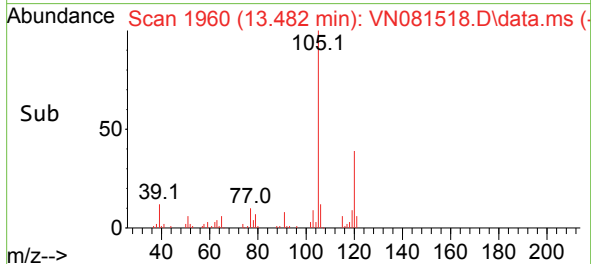
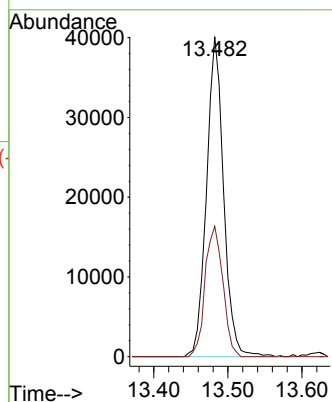
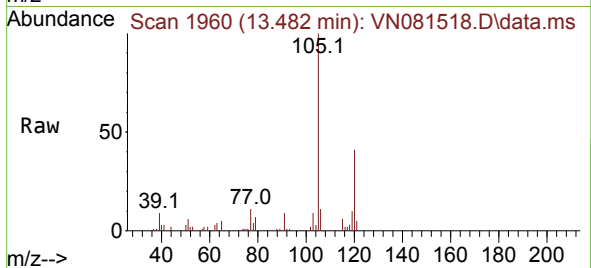
S-1

Tgt Ion:105 Resp: 64250

Ion Ratio Lower Upper

105 100

120 42.3 20.9 62.7



#85

sec-Butylbenzene

Concen: 2.374 ug/l

RT: 13.482 min Scan# 1960

Delta R.T. -0.135 min

Lab File: VN081518.D

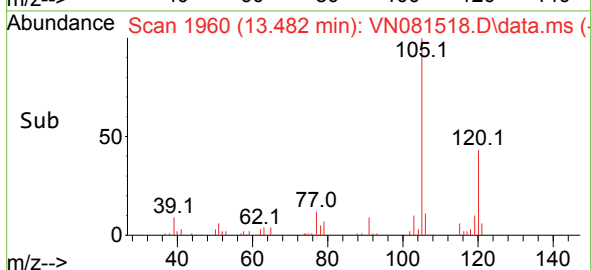
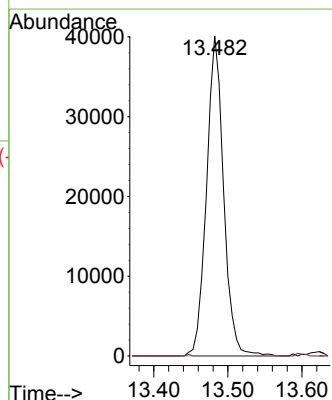
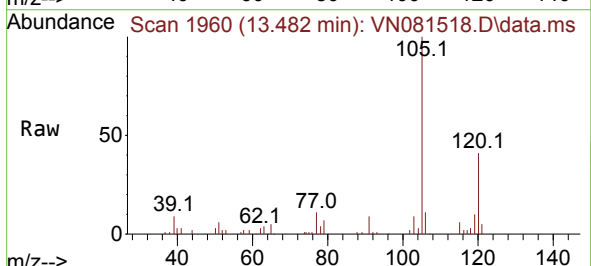
Acq: 21 Mar 2024 14:38

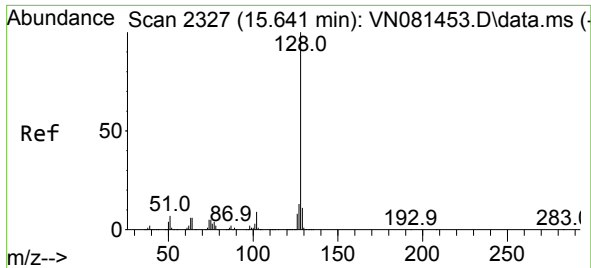
Tgt Ion:105 Resp: 64250

Ion Ratio Lower Upper

105 100

134 0.0 8.6 25.8#





#95

Naphthalene

Concen: 36.408 ug/l

RT: 15.641 min Scan# 21

Delta R.T. 0.000 min

Lab File: VN081518.D

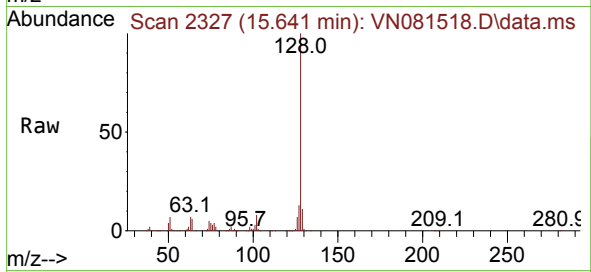
Acq: 21 Mar 2024 14:38

Instrument :

MSVOA_N

ClientSampleId :

S-1



Tgt Ion:128 Resp: 792085

Ion Ratio Lower Upper

128 100

127 13.0 10.0 15.0

129 10.9 8.7 13.1

