

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081823\
 Data File : VN078955.D
 Acq On : 18 Aug 2023 20:25
 Operator : JC\MD
 Sample : PB154902ZHE#12
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Aug 18 23:49:07 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N081523W.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 16 02:42:02 2023
 Response via : Initial Calibration

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

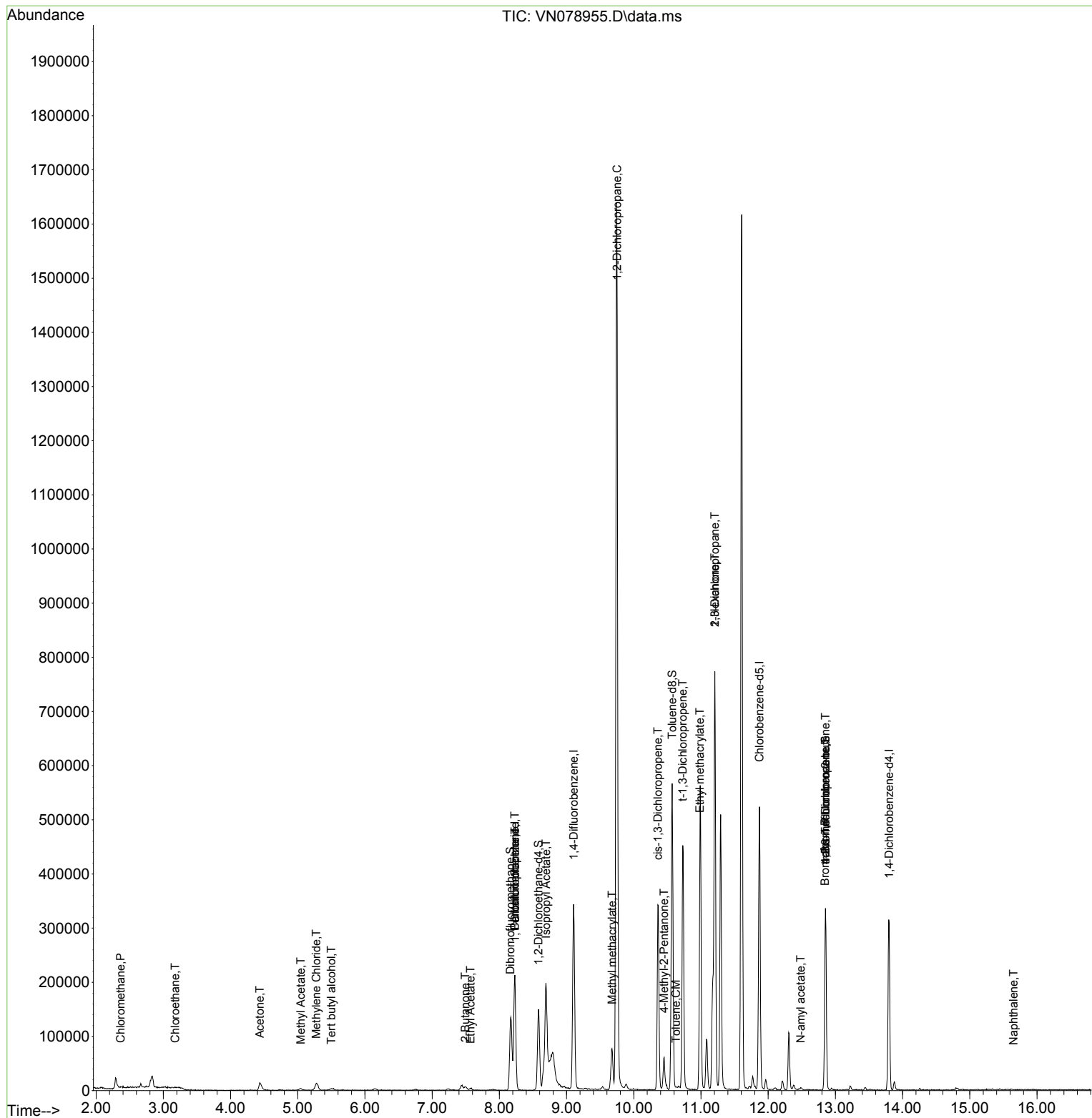
Internal Standards						
1) Pentafluorobenzene	8.229	168	149511	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	287957	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.870	117	283058	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	84543	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	116748	50.181	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 100.360%			
35) Dibromofluoromethane	8.165	113	98471	50.801	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.600%			
50) Toluene-d8	10.571	98	374223	51.995	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 103.980%			
62) 4-Bromofluorobenzene	12.853	95	109131	46.389	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 92.780%			
Target Compounds						
					Qvalue	
3) Chloromethane	2.365	50	1256	0.434	ug/l #	42
6) Chloroethane	3.177	64	626	0.353	ug/l #	43
11) Tert butyl alcohol	5.500	59	1815	4.649	ug/l #	72
16) Acetone	4.436	43	26580	27.689	ug/l	98
18) Methyl Acetate	5.047	43	6605	1.629	ug/l #	69
20) Methylene Chloride	5.277	84	9502	4.645	ug/l #	80
25) 2-Butanone	7.494	43	11895	7.729	ug/l #	71
31) Cyclohexane	8.229	56	4155	Below Cal	#	45
36) 1,1-Dichloropropene	8.235	75	12725	4.364	ug/l #	49
37) Ethyl Acetate	7.571	43	6404	1.963	ug/l #	74
38) Carbon Tetrachloride	8.229	117	16326	5.588	ug/l #	16
43) Isopropyl Acetate	8.694	43	269033	46.657	ug/l #	70
45) 1,2-Dichloropropane	9.753	63	1933	0.842	ug/l #	45
48) Methyl methacrylate	9.676	41	6146	2.352	ug/l #	33
51) 4-Methyl-2-Pentanone	10.453	43	44471	13.003	ug/l #	80
52) Toluene	10.629	92	1274	0.241	ug/l	93
53) t-1,3-Dichloropropene	10.729	75	829	0.249	ug/l	100
54) cis-1,3-Dichloropropene	10.359	75	55046	15.165	ug/l #	68
56) Ethyl methacrylate	10.982	69	2158	0.656	ug/l #	1
57) 1,3-Dichloropropane	11.206	76	7871	2.074	ug/l #	42
59) 2-Hexanone	11.206	43	100523	40.581	ug/l #	46
71) Bromoform	12.847	173	726	0.439	ug/l #	1
74) N-amyl acetate	12.482	43	1397	0.393	ug/l #	47
76) 1,2,3-Trichloropropane	12.853	75	61960	30.416	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	61960	77.700	ug/l #	15
95) Naphthalene	15.653	128	106	2.600	ug/l #	70

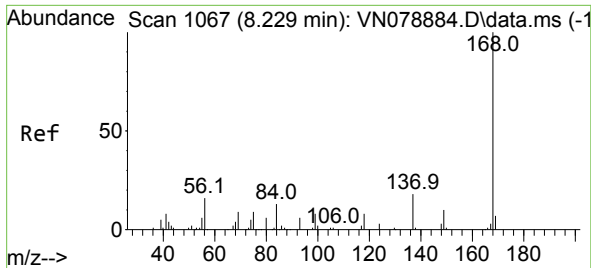
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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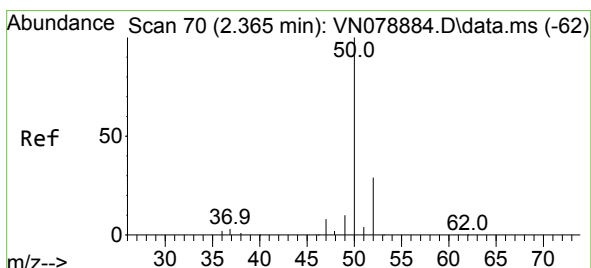
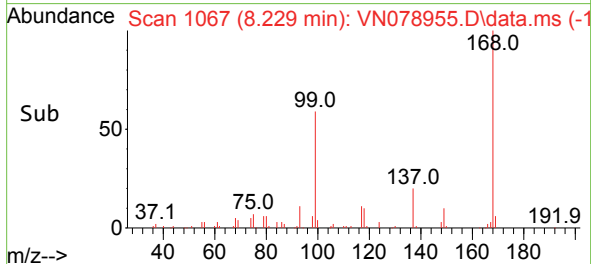
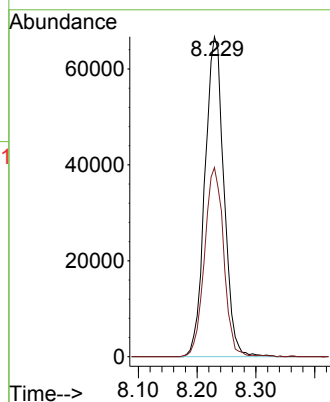
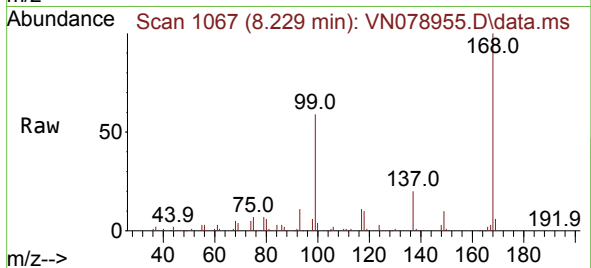




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.229 min Scan# 1067
Delta R.T. -0.001 min
Lab File: VN078955.D
Acq: 18 Aug 2023 20:25

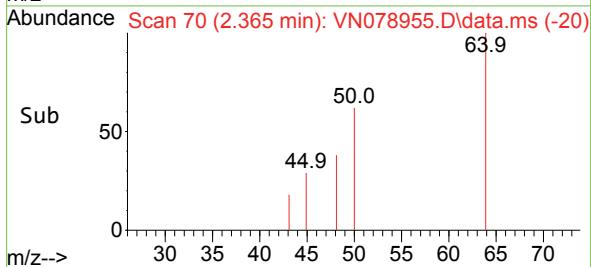
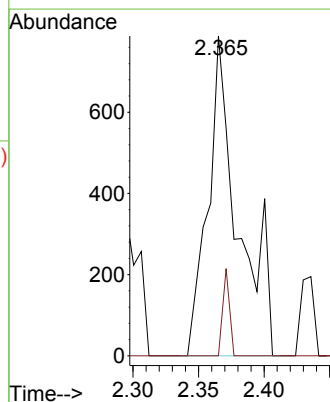
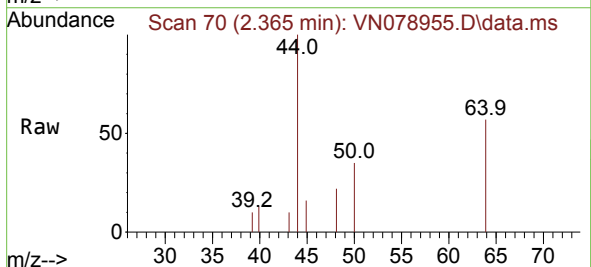
Instrument :
MSVOA_N
ClientSampleId :

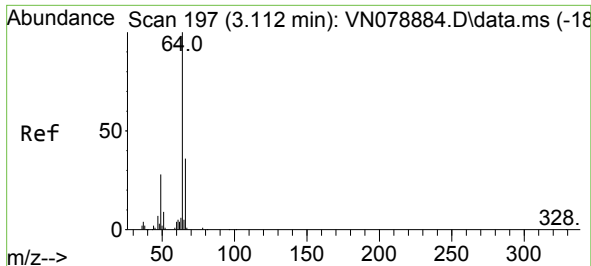
Tgt Ion:168 Resp: 149511
Ion Ratio Lower Upper
168 100
99 59.1 53.0 79.6



#3
Chloromethane
Concen: 0.434 ug/l
RT: 2.365 min Scan# 70
Delta R.T. -0.006 min
Lab File: VN078955.D
Acq: 18 Aug 2023 20:25

Tgt Ion: 50 Resp: 1256
Ion Ratio Lower Upper
50 100
52 0.0 26.5 39.7#

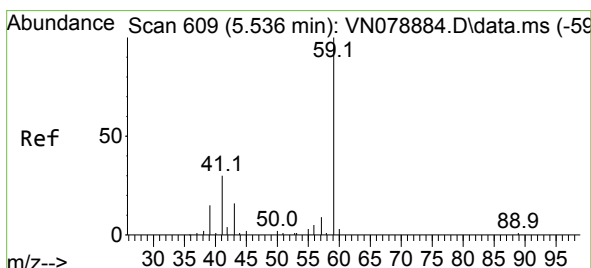
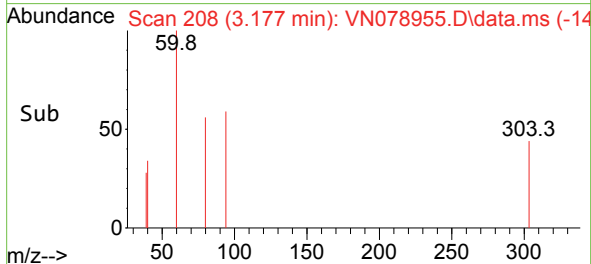
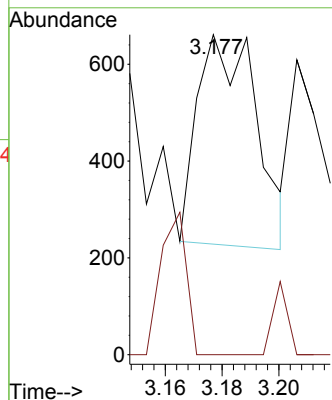
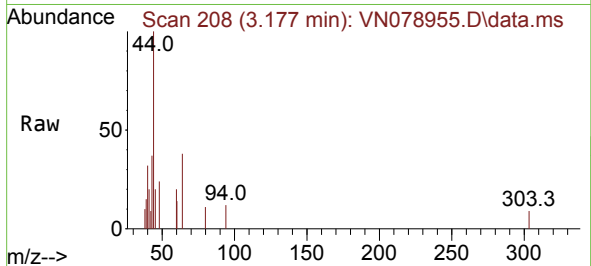




#6
Chloroethane
Concen: 0.353 ug/l
RT: 3.177 min Scan# 20
Delta R.T. 0.059 min
Lab File: VN078955.D
Acq: 18 Aug 2023 20:25

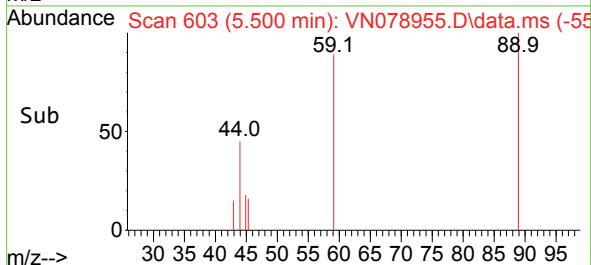
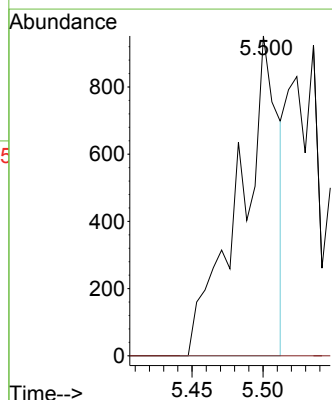
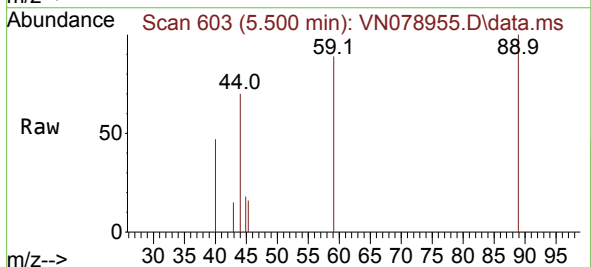
Instrument :
MSVOA_N
ClientSampleId :

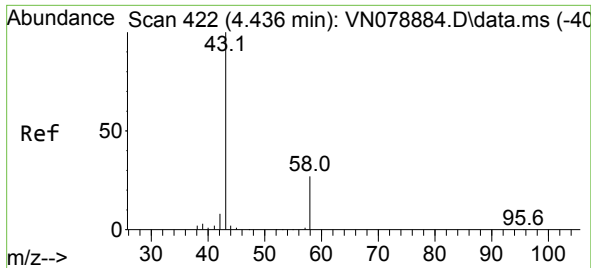
Tgt Ion: 64 Resp: 626
Ion Ratio Lower Upper
64 100
66 0.0 25.4 38.2#



#11
Tert butyl alcohol
Concen: 4.649 ug/l
RT: 5.500 min Scan# 603
Delta R.T. -0.042 min
Lab File: VN078955.D
Acq: 18 Aug 2023 20:25

Tgt Ion: 59 Resp: 1815
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#





#16

Acetone

Concen: 27.689 ug/l

RT: 4.436 min Scan# 431

Delta R.T. -0.006 min

Lab File: VN078955.D

Acq: 18 Aug 2023 20:25

Instrument :

MSVOA_N

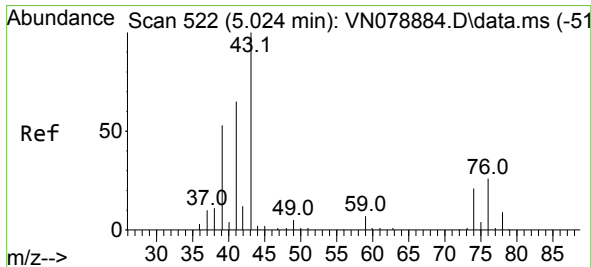
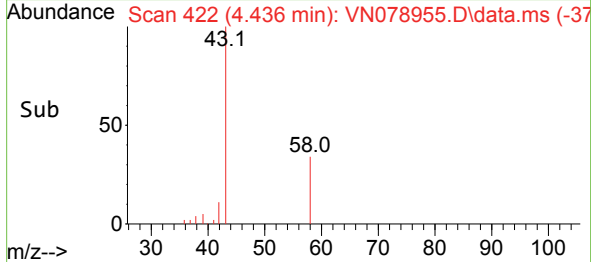
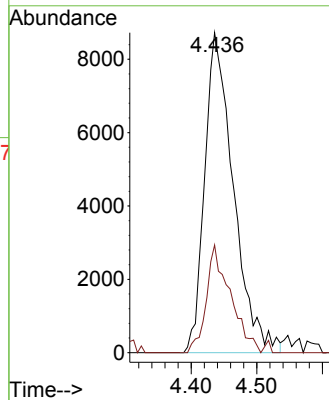
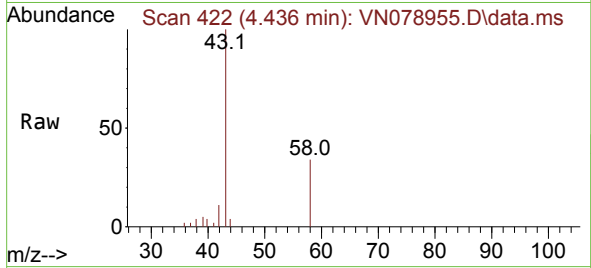
ClientSampleId :

Tgt Ion: 43 Resp: 26580

Ion Ratio Lower Upper

43 100

58 33.6 28.0 42.0



#18

Methyl Acetate

Concen: 1.629 ug/l

RT: 5.047 min Scan# 526

Delta R.T. 0.005 min

Lab File: VN078955.D

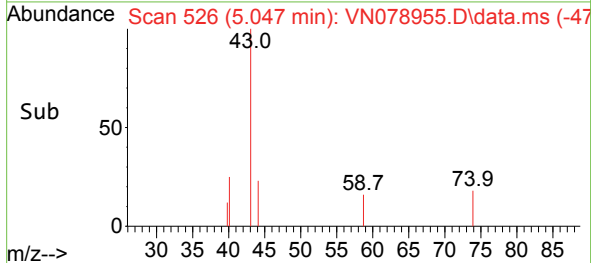
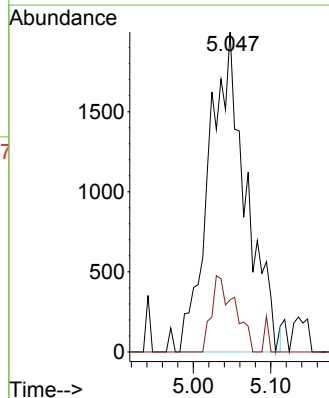
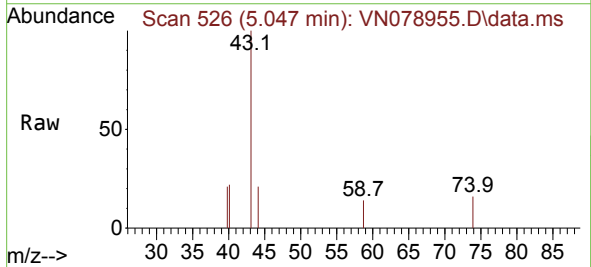
Acq: 18 Aug 2023 20:25

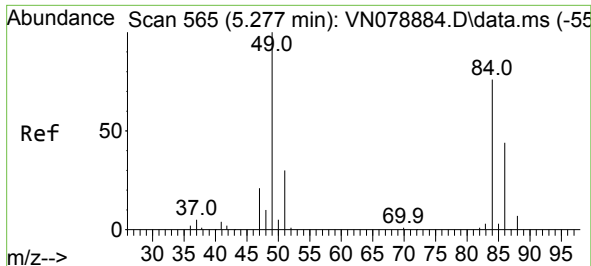
Tgt Ion: 43 Resp: 6605

Ion Ratio Lower Upper

43 100

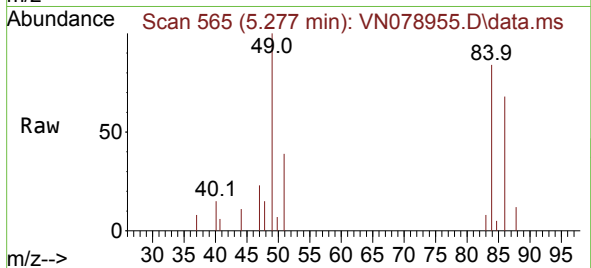
74 15.1 26.2 39.4#



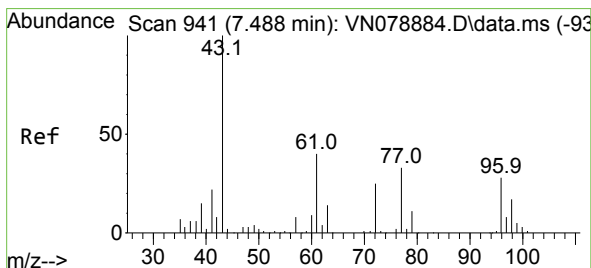
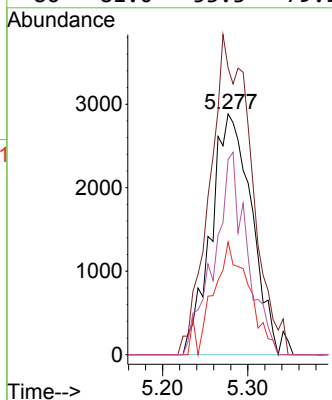


#20
Methylene Chloride
Concen: 4.645 ug/l
RT: 5.277 min Scan# 51
Delta R.T. -0.006 min
Lab File: VN078955.D
Acq: 18 Aug 2023 20:25

Instrument :
MSVOA_N
ClientSampleId :

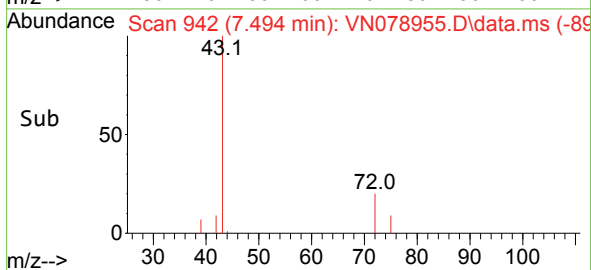
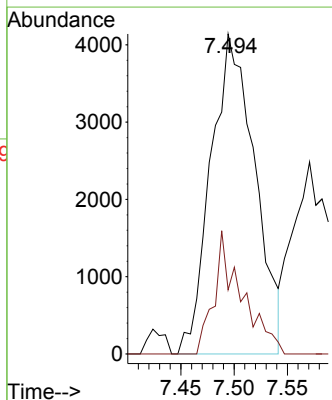
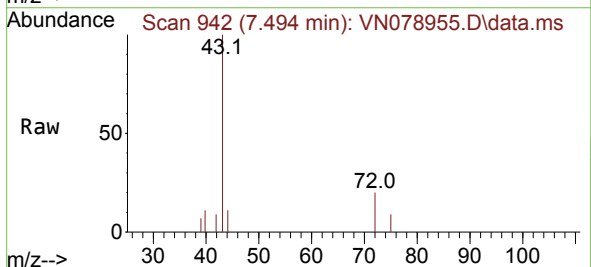


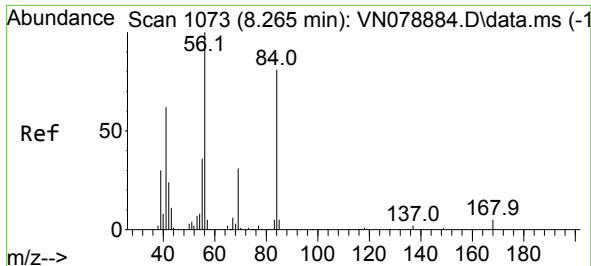
Tgt Ion:	84	Resp:	9502
Ion	Ratio	Lower	Upper
84	100		
49	119.1	79.7	119.5
51	46.8	25.2	37.8#
86	81.0	53.3	79.9#



#25
2-Butanone
Concen: 7.729 ug/l
RT: 7.494 min Scan# 942
Delta R.T. 0.000 min
Lab File: VN078955.D
Acq: 18 Aug 2023 20:25

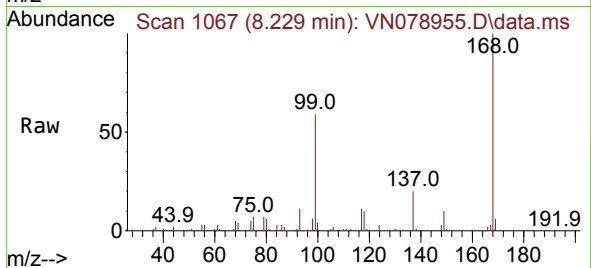
Tgt Ion:	43	Resp:	11895
Ion	Ratio	Lower	Upper
43	100		
72	20.1	30.2	45.2#



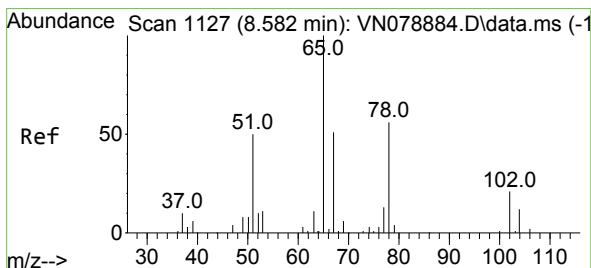
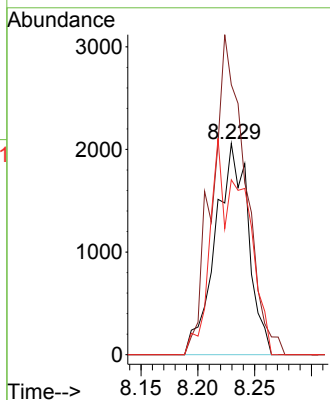
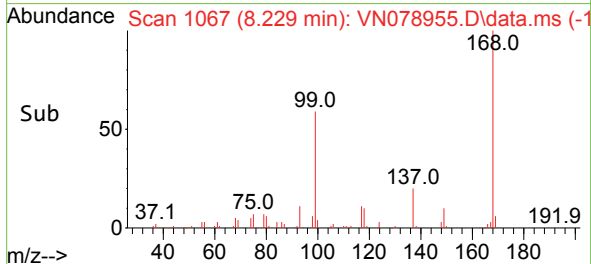


#31
Cyclohexane
Concen: Below Cal
RT: 8.229 min Scan# 1067
Delta R.T. -0.036 min
Lab File: VN078955.D
Acq: 18 Aug 2023 20:25

Instrument :
MSVOA_N
ClientSampleId :

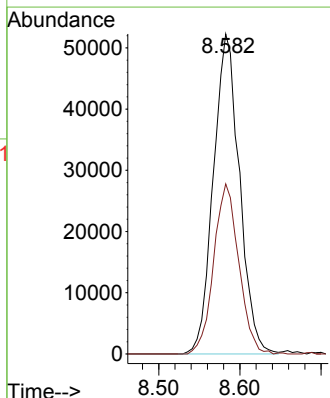
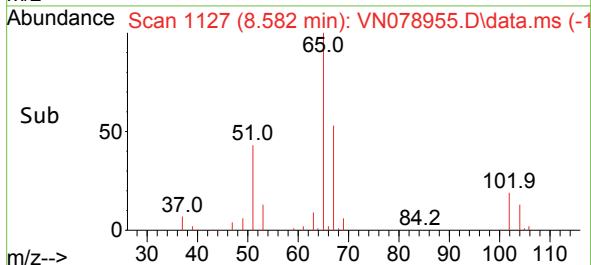
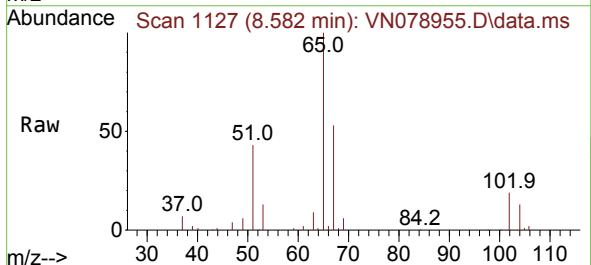


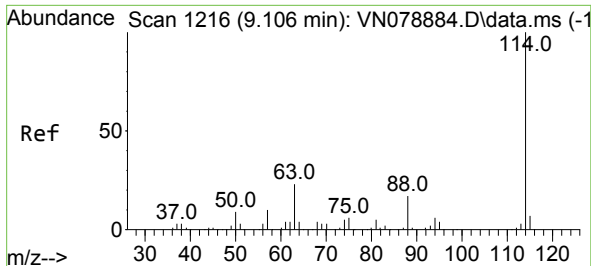
Tgt Ion: 56 Resp: 4155
Ion Ratio Lower Upper
56 100
69 127.8 26.8 40.2#
84 82.8 81.8 122.6



#33
1,2-Dichloroethane-d4
Concen: 50.181 ug/l
RT: 8.582 min Scan# 1127
Delta R.T. -0.001 min
Lab File: VN078955.D
Acq: 18 Aug 2023 20:25

Tgt Ion: 65 Resp: 116748
Ion Ratio Lower Upper
65 100
67 51.1 0.0 106.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1

Delta R.T. -0.006 min

Lab File: VN078955.D

Acq: 18 Aug 2023 20:25

Instrument :

MSVOA_N

ClientSampleId :

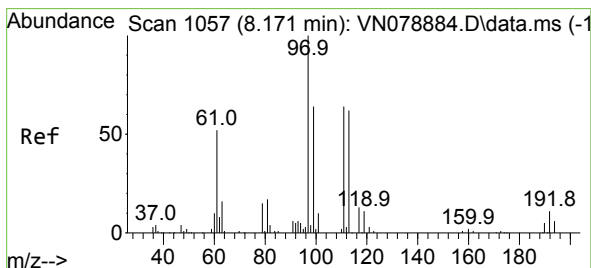
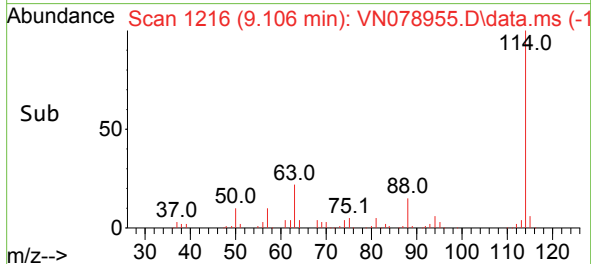
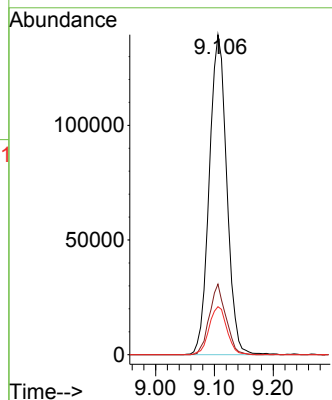
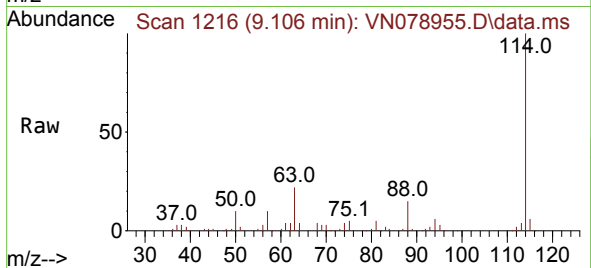
Tgt Ion:114 Resp: 287957

Ion Ratio Lower Upper

114 100

63 22.1 0.0 36.4

88 15.0 0.0 30.6



#35

Dibromofluoromethane

Concen: 50.801 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.006 min

Lab File: VN078955.D

Acq: 18 Aug 2023 20:25

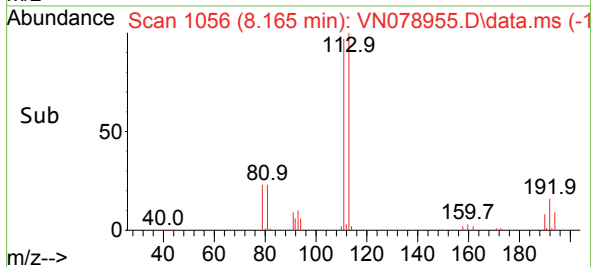
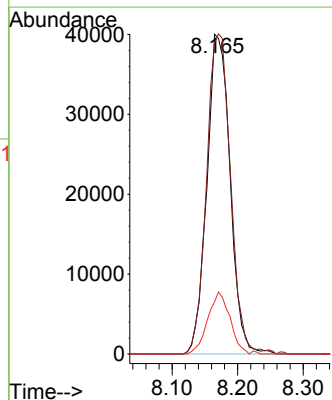
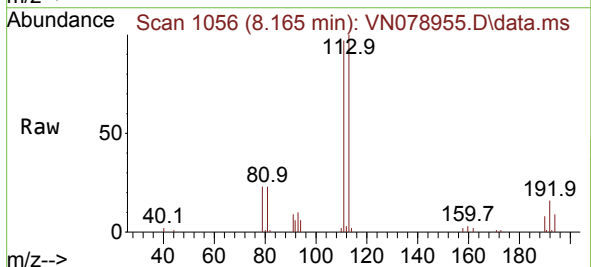
Tgt Ion:113 Resp: 98471

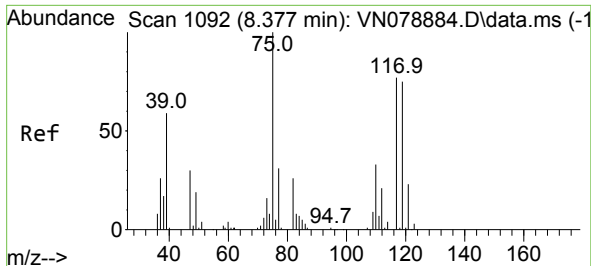
Ion Ratio Lower Upper

113 100

111 103.3 82.6 123.8

192 18.5 12.7 19.1





#36

1,1-Dichloropropene

Concen: 4.364 ug/l

RT: 8.235 min Scan# 1

Delta R.T. -0.142 min

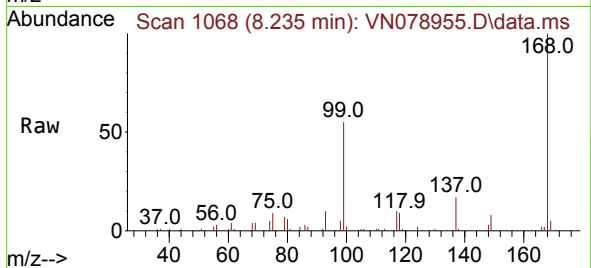
Lab File: VN078955.D

Acq: 18 Aug 2023 20:25

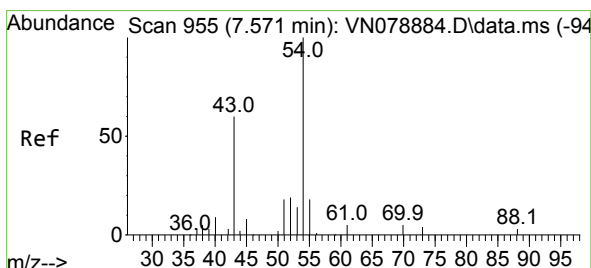
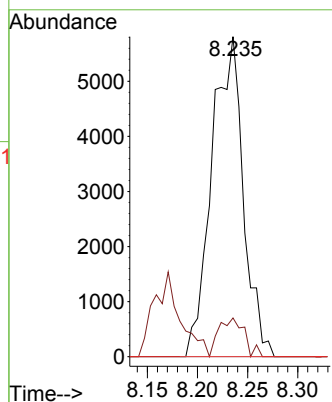
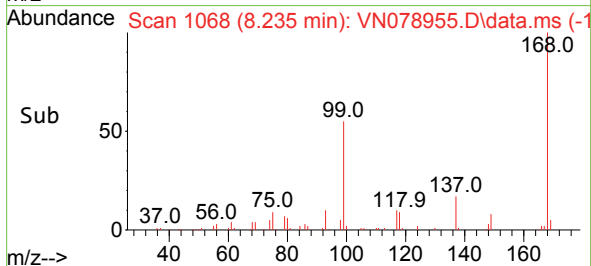
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	75	Resp:	12725
Ion Ratio	Lower	Upper	
75	100		
110	9.8	19.1	57.3#
77	0.0	25.0	37.4#



#37

Ethyl Acetate

Concen: 1.963 ug/l

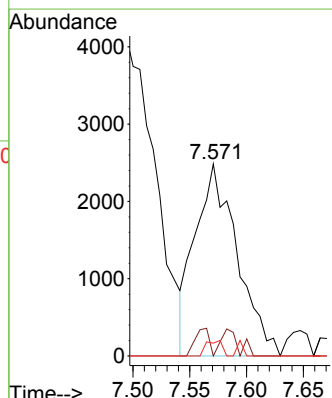
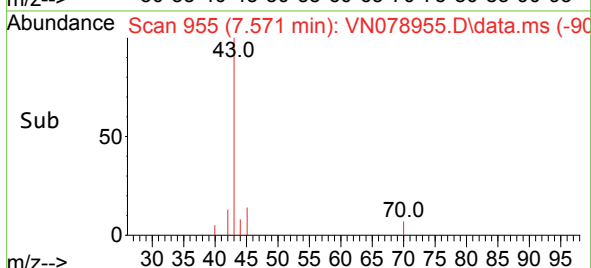
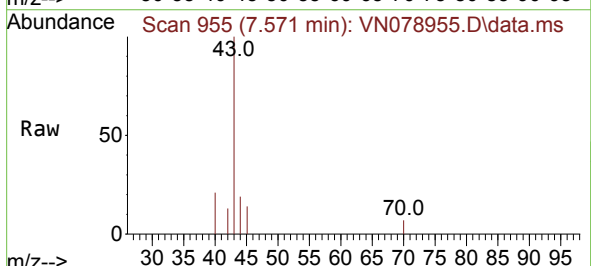
RT: 7.571 min Scan# 955

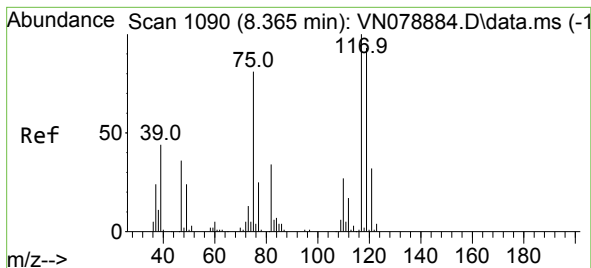
Delta R.T. -0.000 min

Lab File: VN078955.D

Acq: 18 Aug 2023 20:25

Tgt Ion:	43	Resp:	6404
Ion Ratio	Lower	Upper	
43	100		
61	5.8	13.2	19.8#
70	3.0	11.3	16.9#





#38

Carbon Tetrachloride

Concen: 5.588 ug/l

RT: 8.229 min Scan# 1

Delta R.T. -0.142 min

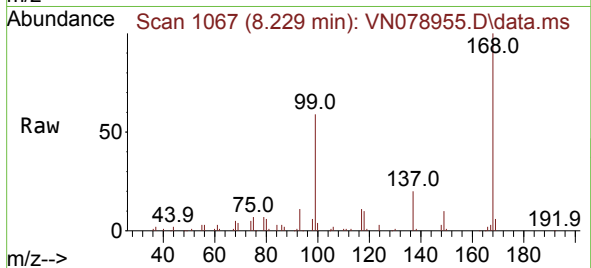
Lab File: VN078955.D

Acq: 18 Aug 2023 20:25

Instrument :

MSVOA_N

ClientSampleId :



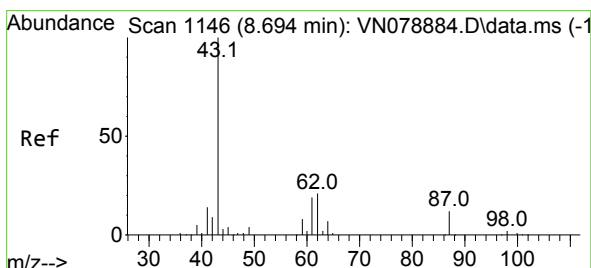
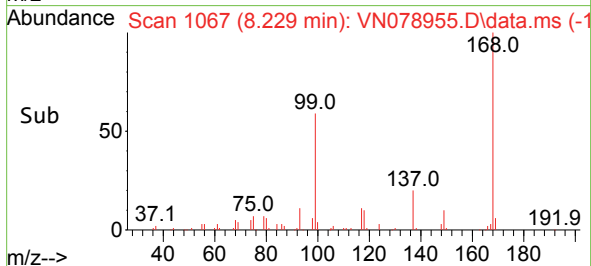
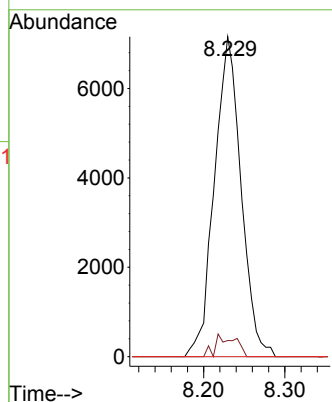
Tgt Ion:117 Resp: 16326

Ion Ratio Lower Upper

117 100

119 5.0 77.3 115.9#

121 0.0 23.3 34.9#



#43

Isopropyl Acetate

Concen: 46.657 ug/l

RT: 8.694 min Scan# 1146

Delta R.T. 0.000 min

Lab File: VN078955.D

Acq: 18 Aug 2023 20:25

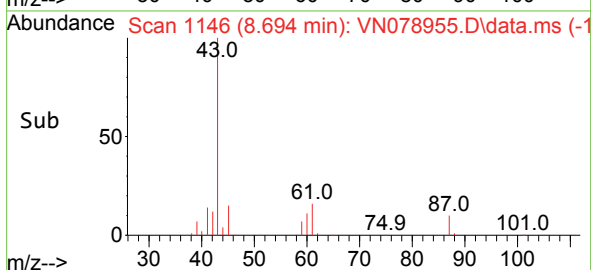
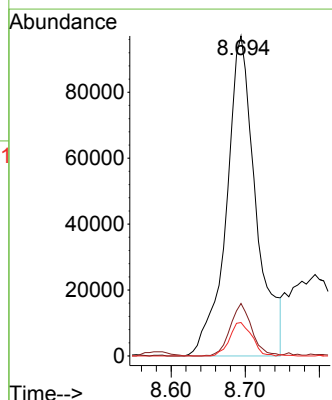
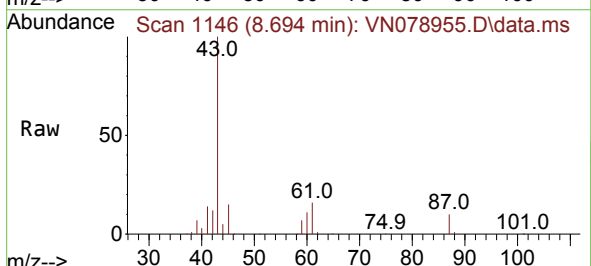
Tgt Ion: 43 Resp: 269033

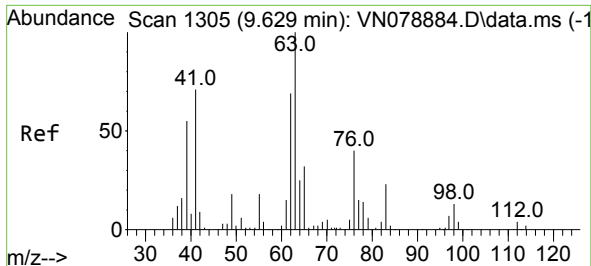
Ion Ratio Lower Upper

43 100

61 12.0 24.7 37.1#

87 7.8 14.6 21.8#





#45

1,2-Dichloropropane

Concen: 0.842 ug/l

RT: 9.753 min Scan# 1

Delta R.T. 0.129 min

Lab File: VN078955.D

Acq: 18 Aug 2023 20:25

Instrument :

MSVOA_N

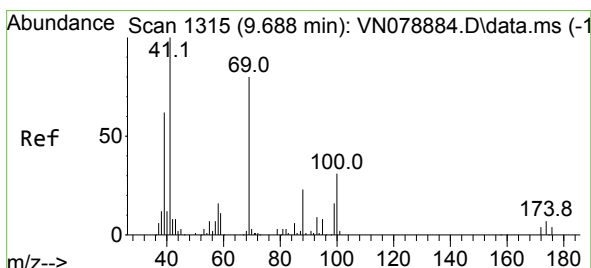
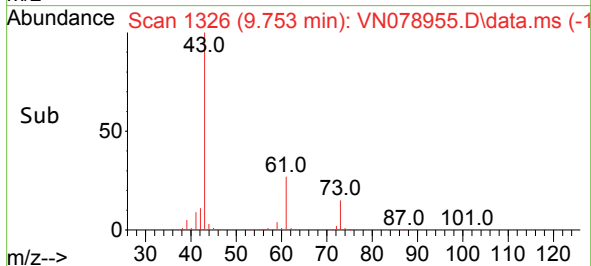
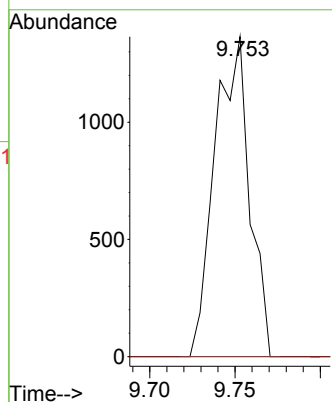
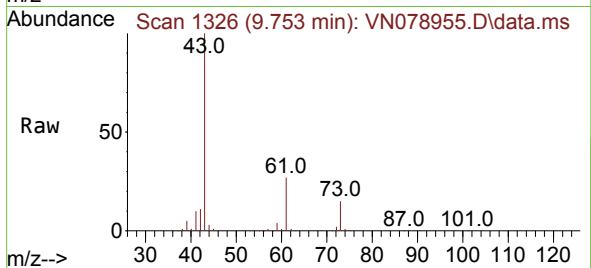
ClientSampleId :

Tgt Ion: 63 Resp: 1933

Ion Ratio Lower Upper

63 100

65 0.0 23.9 35.9#



#48

Methyl methacrylate

Concen: 2.352 ug/l

RT: 9.676 min Scan# 1313

Delta R.T. -0.012 min

Lab File: VN078955.D

Acq: 18 Aug 2023 20:25

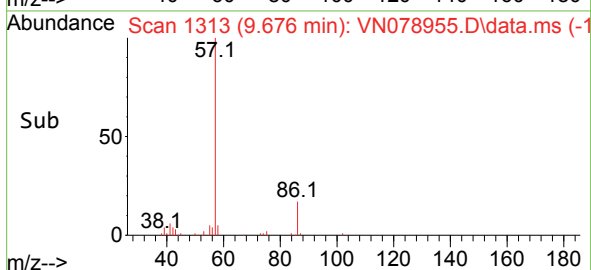
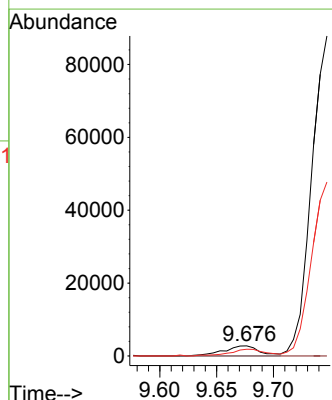
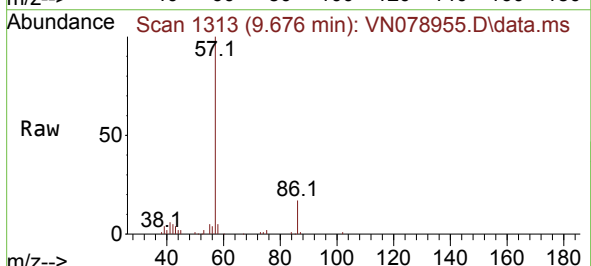
Tgt Ion: 41 Resp: 6146

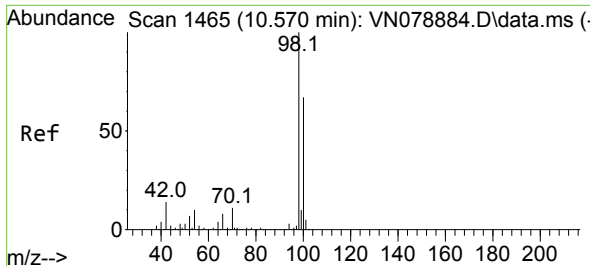
Ion Ratio Lower Upper

41 100

69 0.0 90.4 135.6#

39 66.3 54.6 81.8

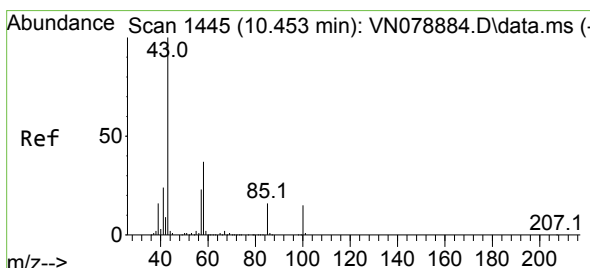
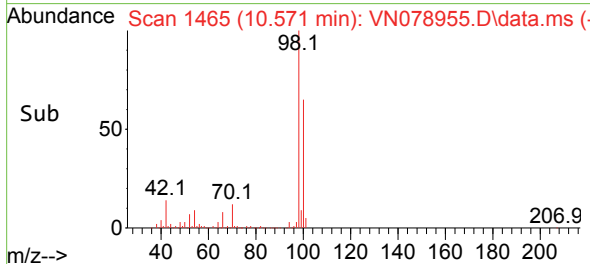
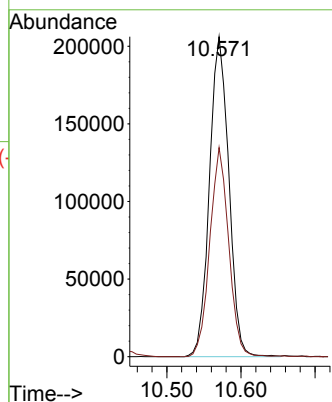
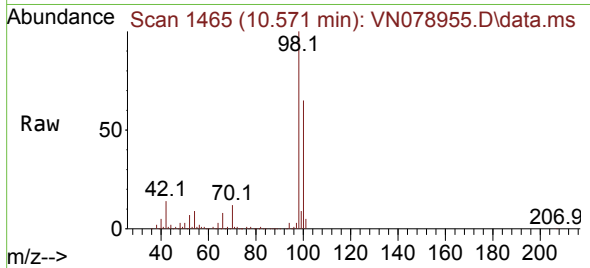




#50
Toluene-d8
Concen: 51.995 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VN078955.D
Acq: 18 Aug 2023 20:25

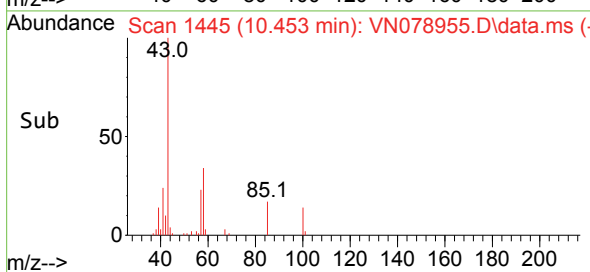
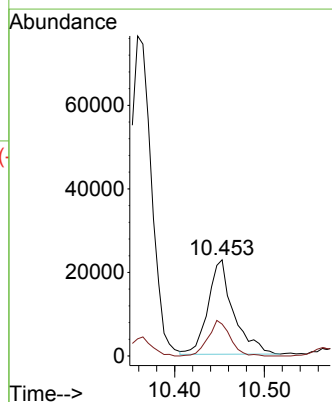
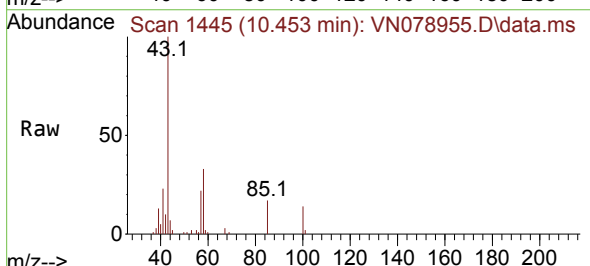
Instrument :
MSVOA_N
ClientSampleId :

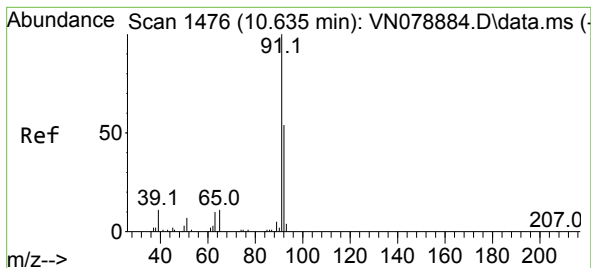
Tgt Ion: 98 Resp: 374223
Ion Ratio Lower Upper
98 100
100 63.8 52.0 78.0



#51
4-Methyl-2-Pentanone
Concen: 13.003 ug/l
RT: 10.453 min Scan# 1445
Delta R.T. -0.000 min
Lab File: VN078955.D
Acq: 18 Aug 2023 20:25

Tgt Ion: 43 Resp: 44471
Ion Ratio Lower Upper
43 100
58 32.5 36.6 54.8#





#52

Toluene

Concen: 0.241 ug/l

RT: 10.629 min Scan# 1475

Delta R.T. -0.006 min

Lab File: VN078955.D

Acq: 18 Aug 2023 20:25

Instrument :

MSVOA_N

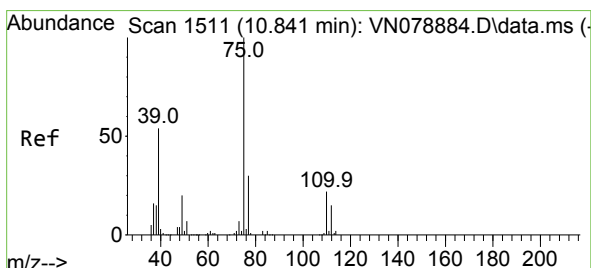
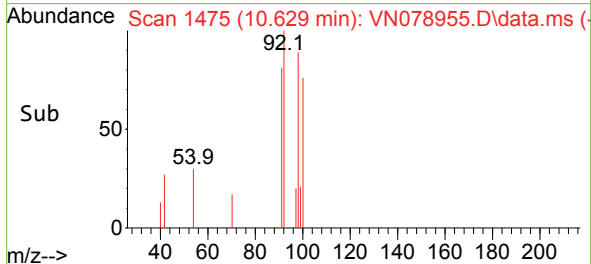
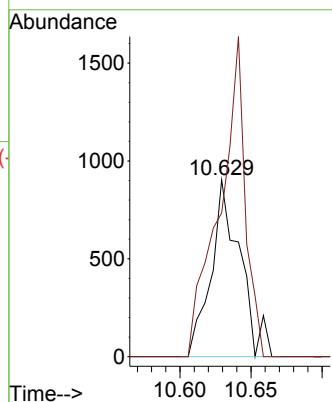
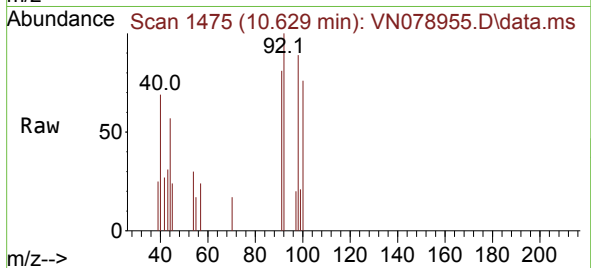
ClientSampleId :

Tgt Ion: 92 Resp: 1274

Ion Ratio Lower Upper

92 100

91 161.4 137.4 206.0



#53

t-1,3-Dichloropropene

Concen: 0.249 ug/l

RT: 10.729 min Scan# 1492

Delta R.T. -0.112 min

Lab File: VN078955.D

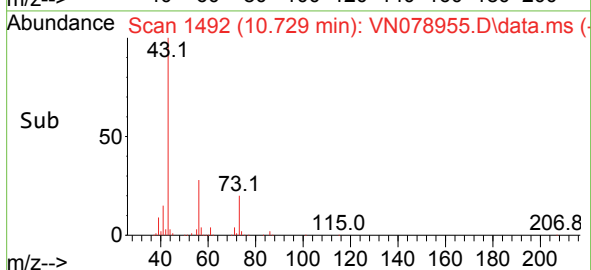
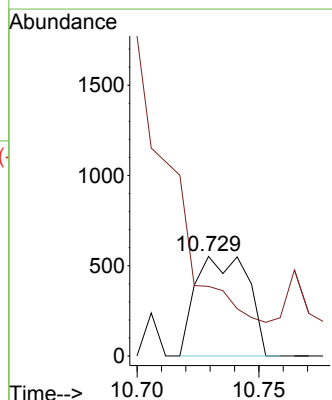
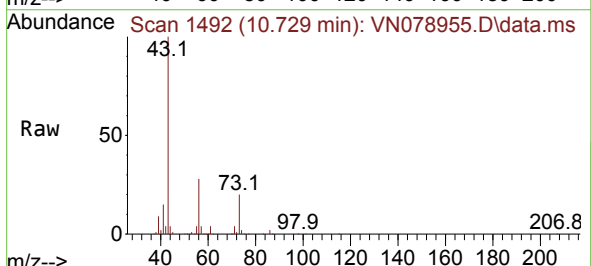
Acq: 18 Aug 2023 20:25

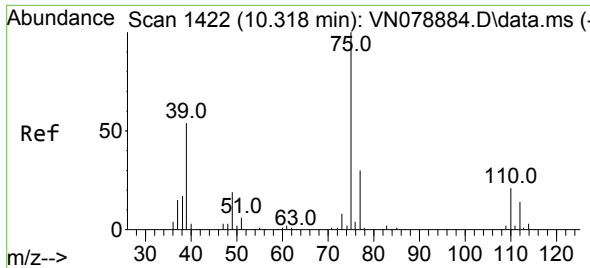
Tgt Ion: 75 Resp: 829

Ion Ratio Lower Upper

75 100

77 31.5 25.4 38.0

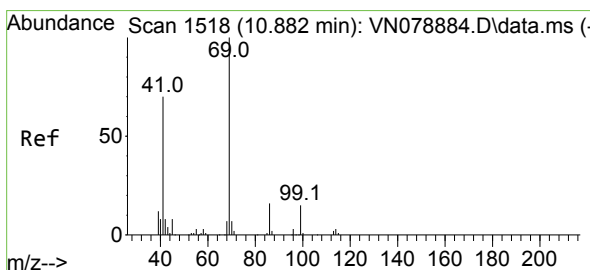
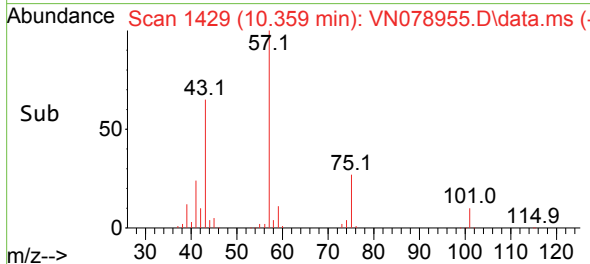
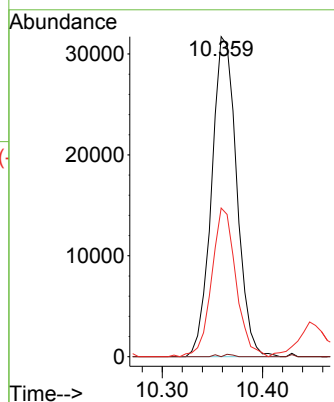
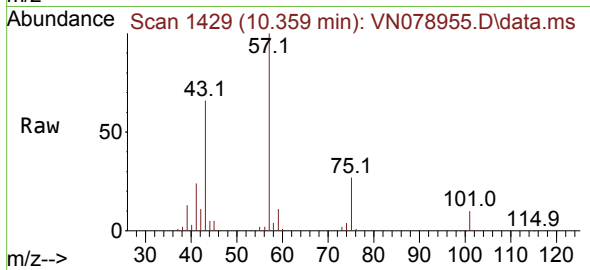




#54
 cis-1,3-Dichloropropene
 Concen: 15.165 ug/l
 RT: 10.359 min Scan# 1429
 Delta R.T. 0.041 min
 Lab File: VN078955.D
 Acq: 18 Aug 2023 20:25

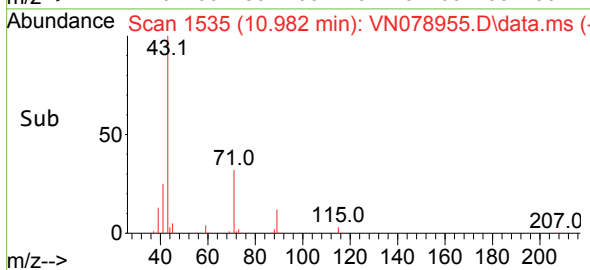
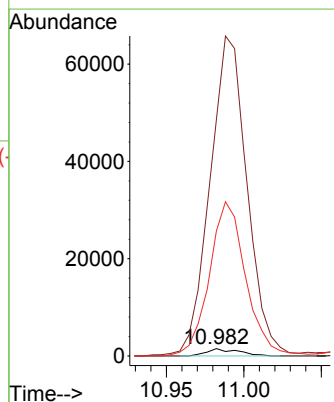
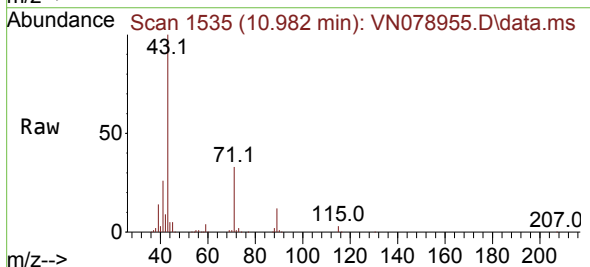
Instrument :
 MSVOA_N
 ClientSampleId :

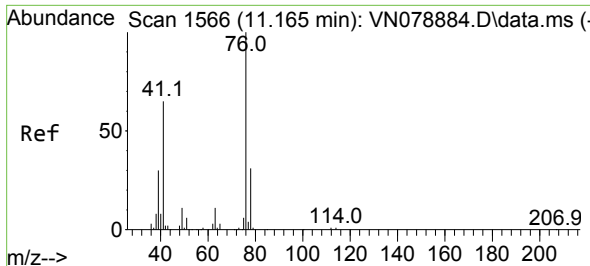
Tgt Ion: 75 Resp: 55046
 Ion Ratio Lower Upper
 75 100
 77 0.0 26.1 39.1#
 39 46.4 31.6 47.4



#56
 Ethyl methacrylate
 Concen: 0.656 ug/l
 RT: 10.982 min Scan# 1535
 Delta R.T. 0.105 min
 Lab File: VN078955.D
 Acq: 18 Aug 2023 20:25

Tgt Ion: 69 Resp: 2158
 Ion Ratio Lower Upper
 69 100
 41 5086.1 39.6 59.4#
 39 2402.5 28.6 43.0#

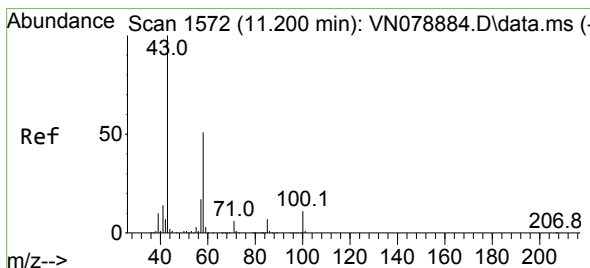
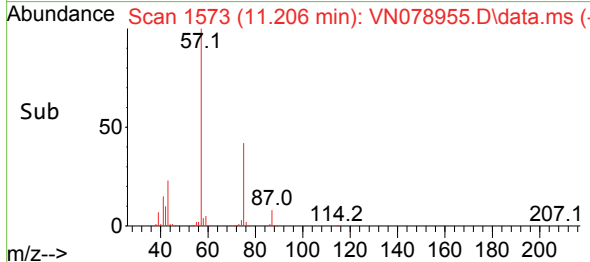
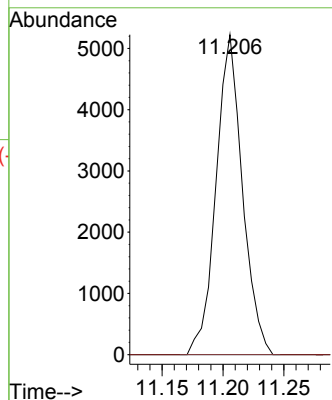
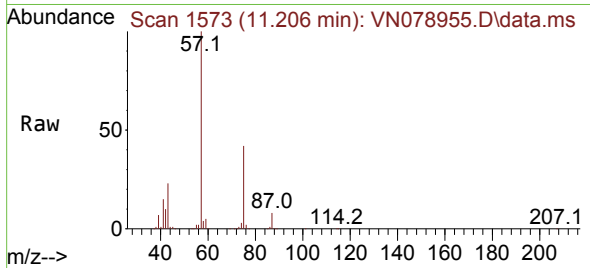




#57
1,3-Dichloropropane
Concen: 2.074 ug/l
RT: 11.206 min Scan# 1573
Delta R.T. 0.041 min
Lab File: VN078955.D
Acq: 18 Aug 2023 20:25

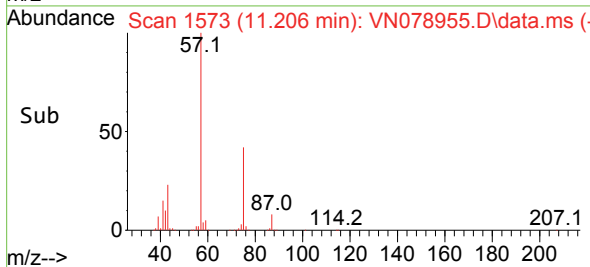
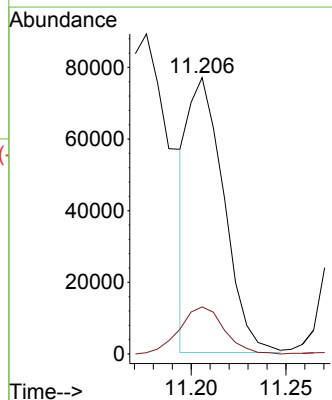
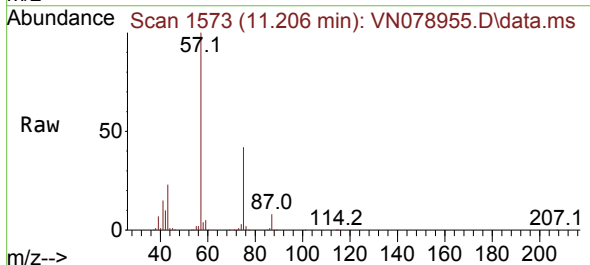
Instrument :
MSVOA_N
ClientSampleId :

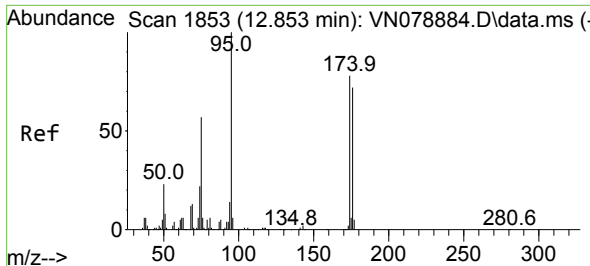
Tgt Ion: 76 Resp: 7871
Ion Ratio Lower Upper
76 100
78 0.0 26.1 39.1#



#59
2-Hexanone
Concen: 40.581 ug/l
RT: 11.206 min Scan# 1573
Delta R.T. 0.006 min
Lab File: VN078955.D
Acq: 18 Aug 2023 20:25

Tgt Ion: 43 Resp: 100523
Ion Ratio Lower Upper
43 100
58 21.5 31.7 95.1#

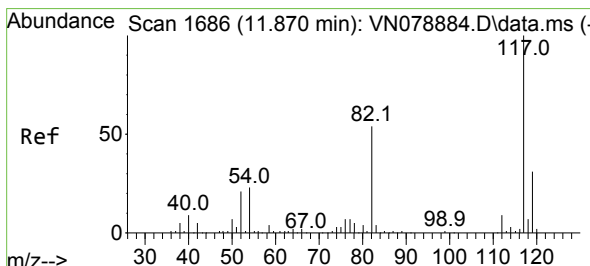
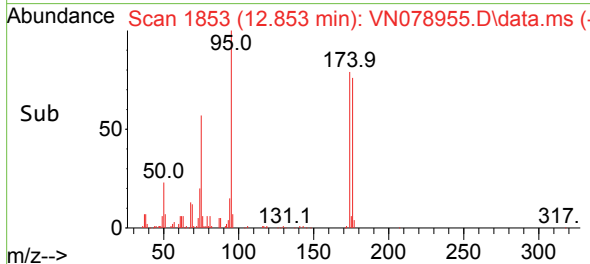
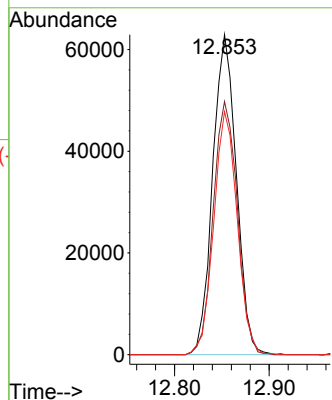
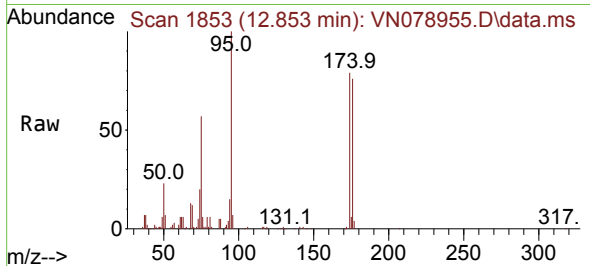




#62
4-Bromofluorobenzene
Concen: 46.389 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.000 min
Lab File: VN078955.D
Acq: 18 Aug 2023 20:25

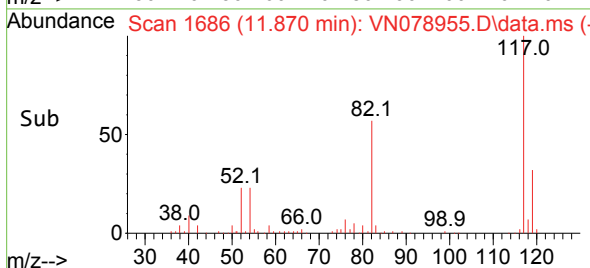
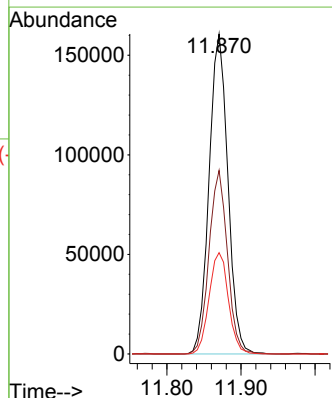
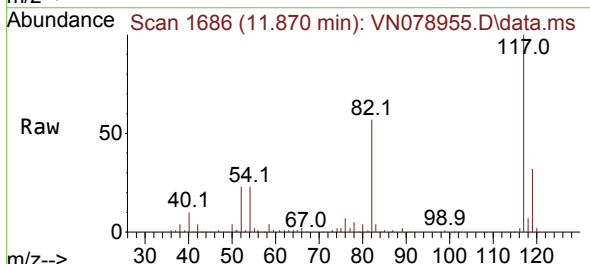
Instrument :
MSVOA_N
ClientSampleId :

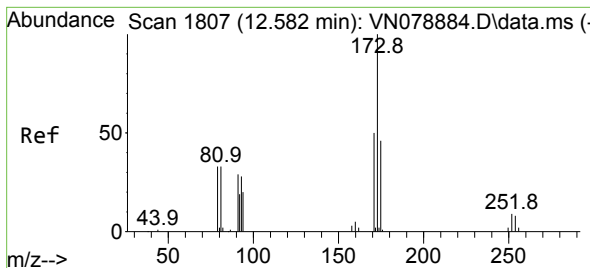
Tgt Ion: 95 Resp: 109131
Ion Ratio Lower Upper
95 100
174 80.9 0.0 143.8
176 75.6 0.0 135.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.870 min Scan# 1686
Delta R.T. -0.001 min
Lab File: VN078955.D
Acq: 18 Aug 2023 20:25

Tgt Ion: 117 Resp: 283058
Ion Ratio Lower Upper
117 100
82 57.4 44.0 66.0
119 31.6 25.6 38.4





#71

Bromoform

Concen: 0.439 ug/l

RT: 12.847 min Scan# 11

Delta R.T. 0.265 min

Lab File: VN078955.D

Acq: 18 Aug 2023 20:25

Instrument :

MSVOA_N

ClientSampleId :

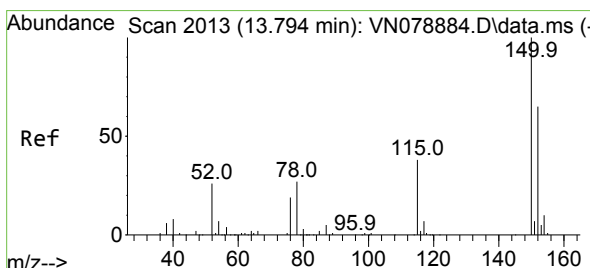
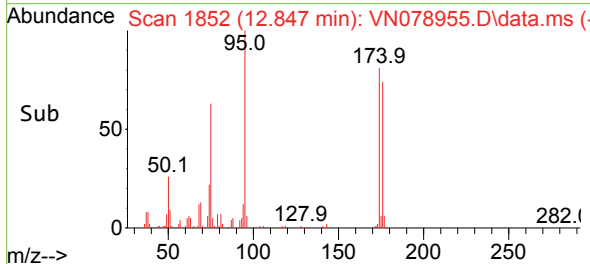
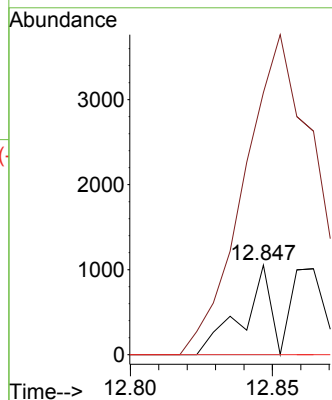
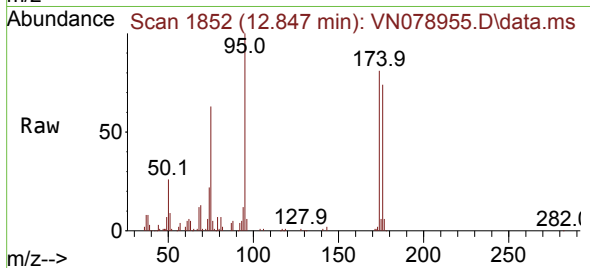
Tgt Ion:173 Resp: 726

Ion Ratio Lower Upper

173 100

175 680.9 24.3 73.0#

254 0.0 0.0 0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.800 min Scan# 2014

Delta R.T. 0.006 min

Lab File: VN078955.D

Acq: 18 Aug 2023 20:25

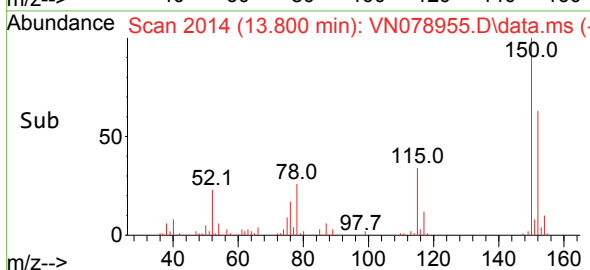
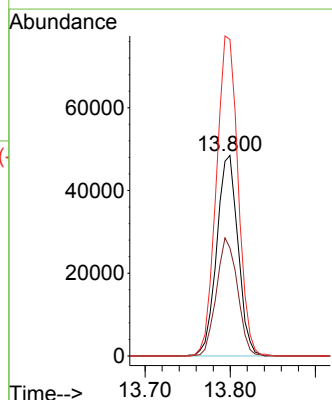
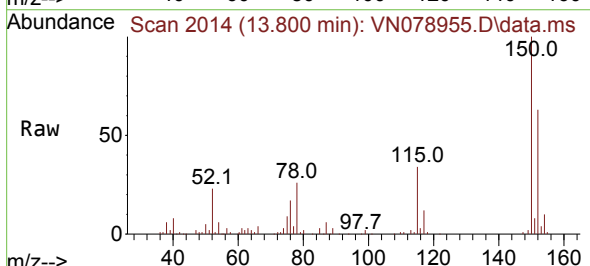
Tgt Ion:152 Resp: 84543

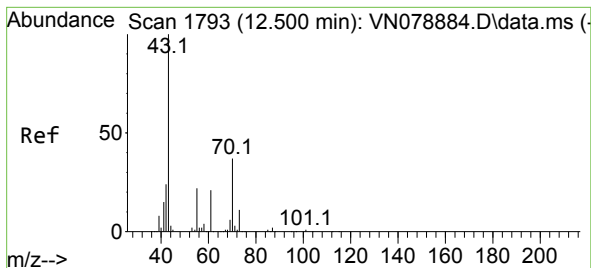
Ion Ratio Lower Upper

152 100

115 58.0 32.3 96.8

150 162.1 0.0 355.8





#74

N-amy1 acetate

Concen: 0.393 ug/l

RT: 12.482 min Scan# 1

Delta R.T. -0.018 min

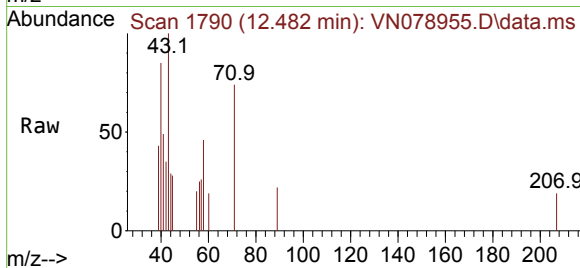
Lab File: VN078955.D

Acq: 18 Aug 2023 20:25

Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion: 43 Resp: 1397

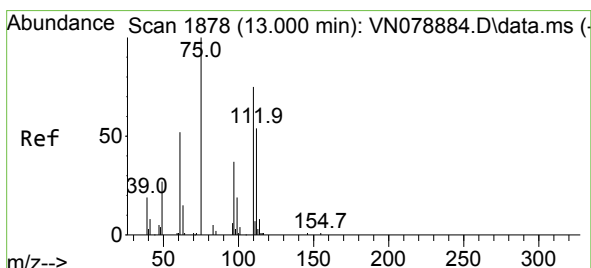
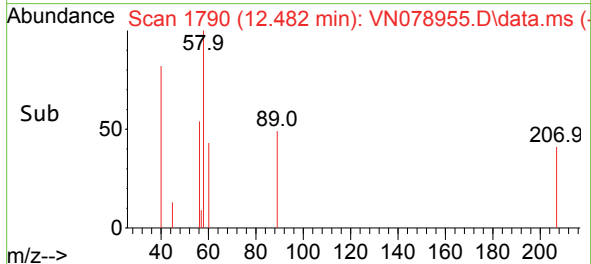
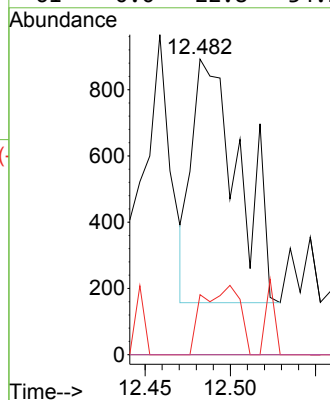
Ion Ratio Lower Upper

43 100

70 0.0 43.4 65.2#

55 22.6 21.4 32.0

61 0.0 22.8 34.2#



#76

1,2,3-Trichloropropane

Concen: 30.416 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. -0.147 min

Lab File: VN078955.D

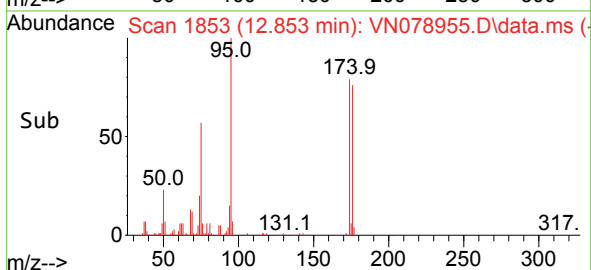
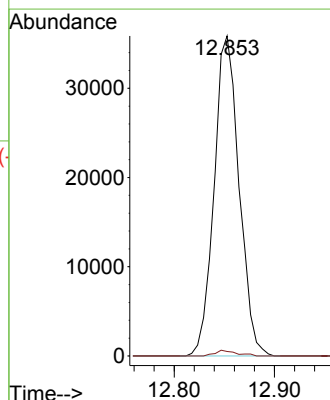
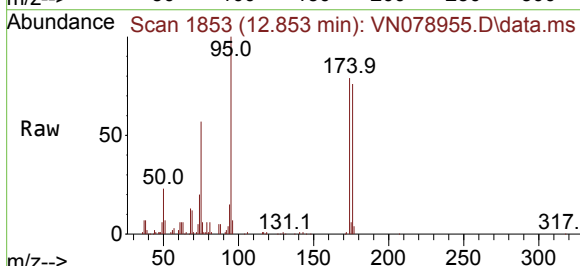
Acq: 18 Aug 2023 20:25

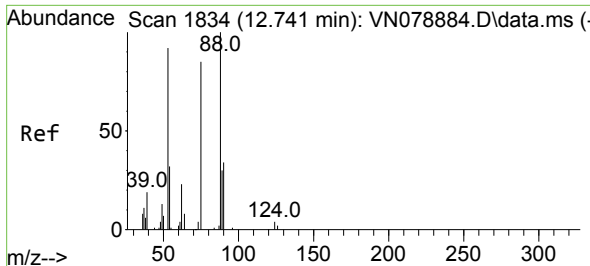
Tgt Ion: 75 Resp: 61960

Ion Ratio Lower Upper

75 100

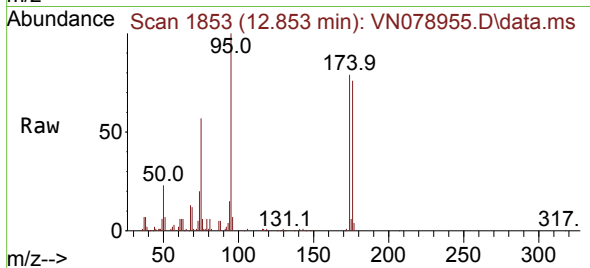
77 1.5 84.5 253.5#



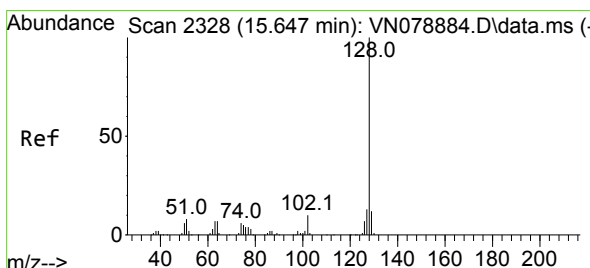
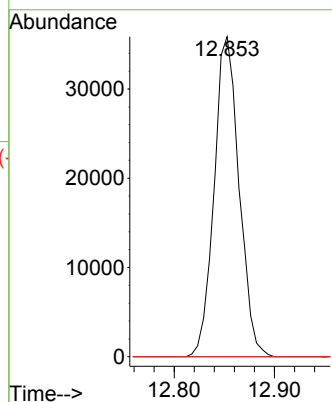
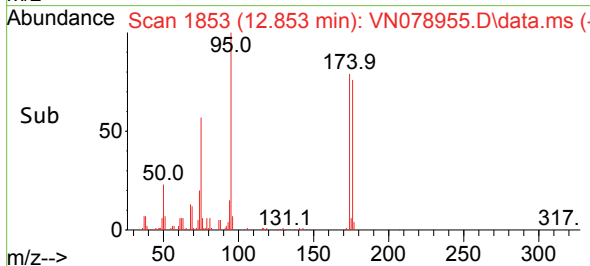


#81
trans-1,4-Dichloro-2-butene
Concen: 77.700 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.112 min
Lab File: VN078955.D
Acq: 18 Aug 2023 20:25

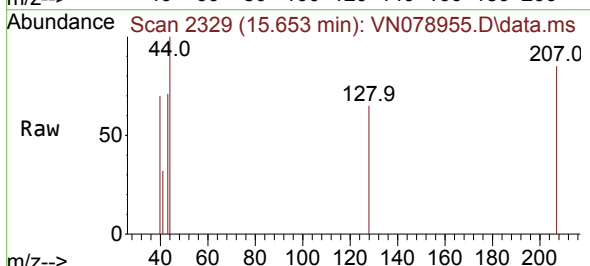
Instrument :
MSVOA_N
ClientSampleId :



Tgt Ion: 75 Resp: 61960
Ion Ratio Lower Upper
75 100
53 0.0 67.4 101.2#
89 0.0 38.8 58.2#



#95
Naphthalene
Concen: 2.600 ug/l
RT: 15.653 min Scan# 2329
Delta R.T. 0.006 min
Lab File: VN078955.D
Acq: 18 Aug 2023 20:25



Tgt Ion: 128 Resp: 106
Ion Ratio Lower Upper
128 100
127 0.0 10.0 15.0#
129 0.0 8.7 13.1#

