

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081023\
 Data File : VN078844.D
 Acq On : 10 Aug 2023 17:57
 Operator : JC\MD
 Sample : PB154726ZHE#15
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Aug 10 23:55:07 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080723W.M
 Quant Title : SW846 8260
 QLast Update : Tue Aug 08 05:03:52 2023
 Response via : Initial Calibration

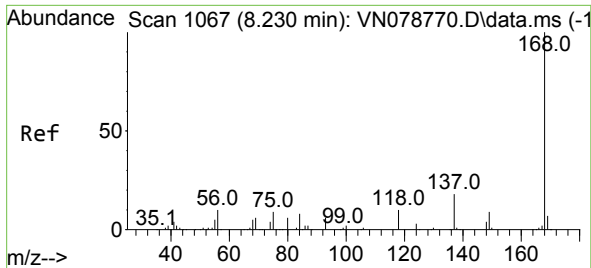
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.236	168	166409	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.112	114	333483	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	304732	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	84675	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	139552	55.939	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 111.880%			
35) Dibromofluoromethane	8.177	113	110491	49.062	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 98.120%			
50) Toluene-d8	10.571	98	421739	50.888	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 101.780%			
62) 4-Bromofluorobenzene	12.853	95	116614	47.082	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 94.160%			
Target Compounds						
					Qvalue	
6) Chloroethane	3.130	64	431	0.242	ug/l	90
11) Tert butyl alcohol	5.553	59	2797	6.388	ug/l #	79
16) Acetone	4.436	43	68199	71.050	ug/l	90
18) Methyl Acetate	5.053	43	4049	0.939	ug/l #	66
20) Methylene Chloride	5.289	84	15099	6.351	ug/l #	71
25) 2-Butanone	7.494	43	33244	20.453	ug/l #	80
26) 2,2-Dichloropropane	7.436	77	760	0.257	ug/l #	53
29) Tetrahydrofuran	7.847	42	575	0.529	ug/l #	20
31) Cyclohexane	8.236	56	5029	1.372	ug/l #	70
36) 1,1-Dichloropropene	8.236	75	15326	4.387	ug/l #	47
37) Ethyl Acetate	7.571	43	36972	9.953	ug/l #	92
38) Carbon Tetrachloride	8.236	117	19300	5.358	ug/l #	17
42) 1,2-Dichloroethane	8.694	62	1369	0.360	ug/l #	73
43) Isopropyl Acetate	8.700	43	233228	37.239	ug/l #	70
45) 1,2-Dichloropropane	9.747	63	1817	0.641	ug/l #	45
48) Methyl methacrylate	9.671	41	6120	2.115	ug/l #	27
51) 4-Methyl-2-Pentanone	10.453	43	117807	30.709	ug/l #	82
54) cis-1,3-Dichloropropene	10.365	75	47153	11.319	ug/l #	71
56) Ethyl methacrylate	10.994	69	1763	0.474	ug/l #	1
57) 1,3-Dichloropropane	11.200	76	5754	1.290	ug/l #	42
59) 2-Hexanone	11.177	43	135928	50.040	ug/l #	19
71) Bromoform	12.853	173	1123	0.599	ug/l #	1
74) N-amyl acetate	12.488	43	4343	1.149	ug/l #	39
76) 1,2,3-Trichloropropane	12.853	75	64756	28.286	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	64756	75.901	ug/l #	15

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

Quant Time: Aug 10 23:55:07 2023
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Quant Title : SW846 8260
QLast Update : Tue Aug 08 05:03:52 2023
Response via : Initial Calibration

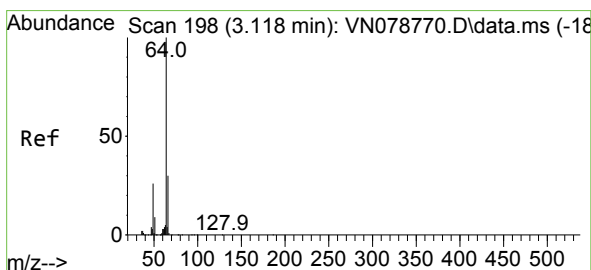
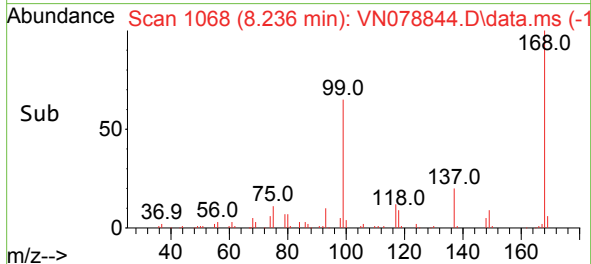
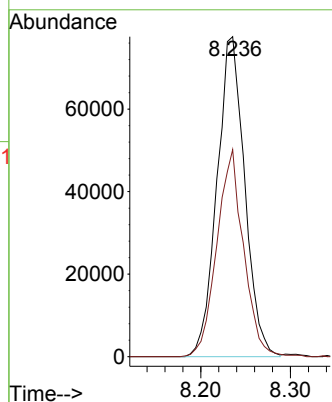
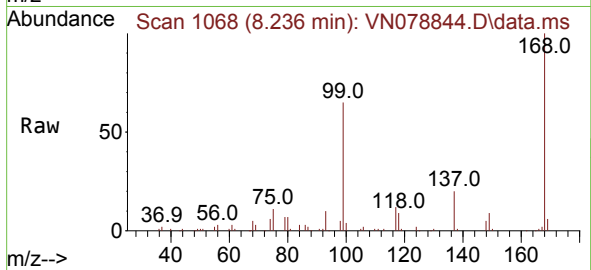




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.236 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN078844.D
Acq: 10 Aug 2023 17:57

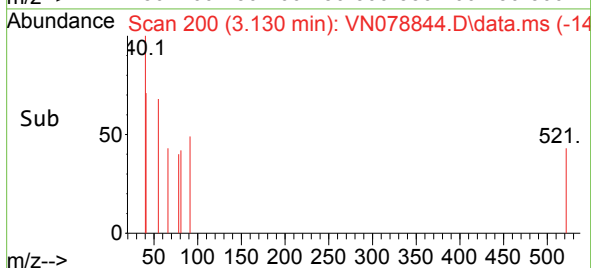
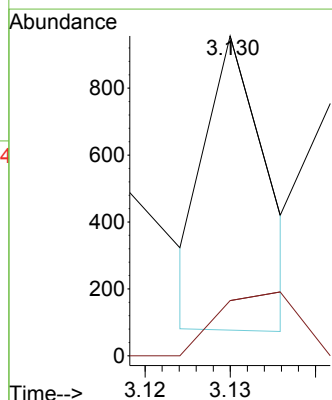
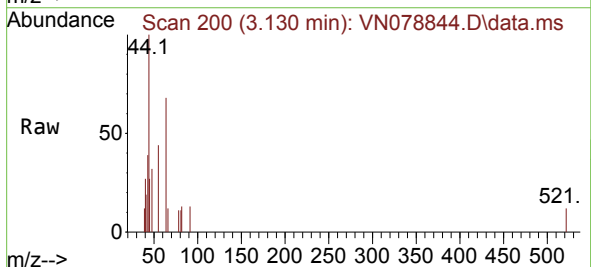
Instrument :
MSVOA_N
ClientSampleId :

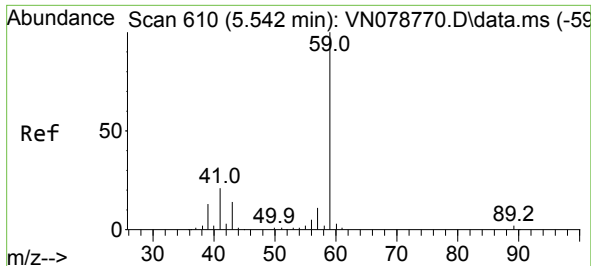
Tgt Ion:168 Resp: 166409
Ion Ratio Lower Upper
168 100
99 64.7 53.0 79.6



#6
Chloroethane
Concen: 0.242 ug/l
RT: 3.130 min Scan# 200
Delta R.T. 0.012 min
Lab File: VN078844.D
Acq: 10 Aug 2023 17:57

Tgt Ion: 64 Resp: 431
Ion Ratio Lower Upper
64 100
66 26.1 25.4 38.2

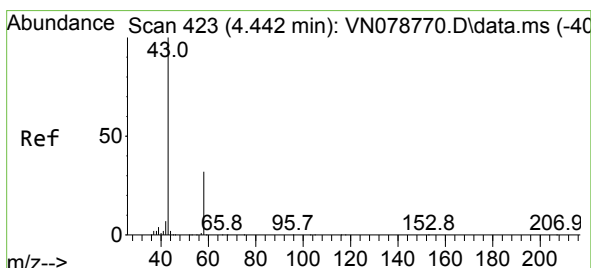
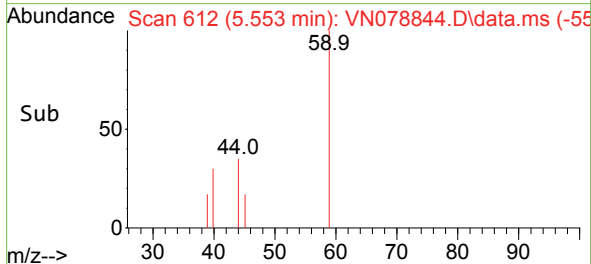
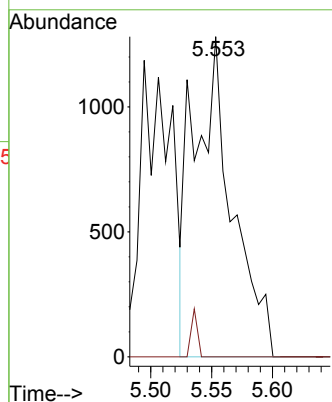
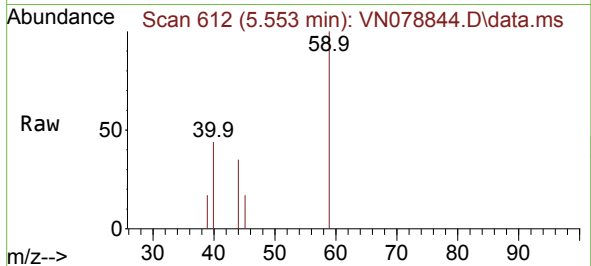




#11
Tert butyl alcohol
Concen: 6.388 ug/l
RT: 5.553 min Scan# 610
Delta R.T. 0.011 min
Lab File: VN078844.D
Acq: 10 Aug 2023 17:57

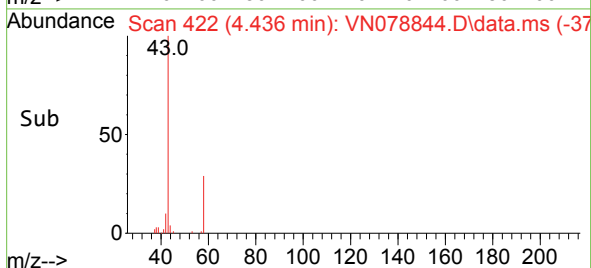
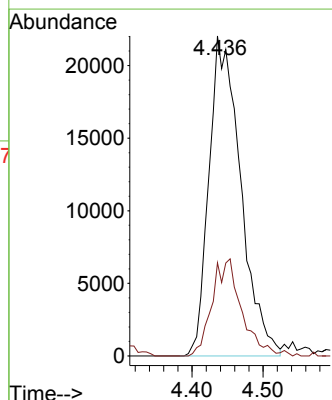
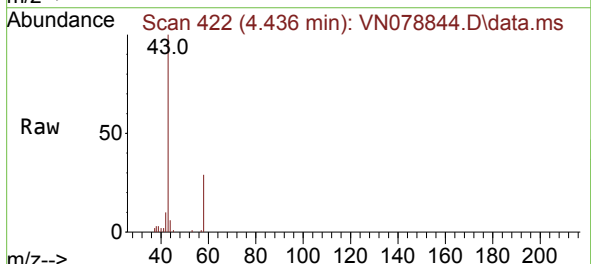
Instrument :
MSVOA_N
ClientSampleId :

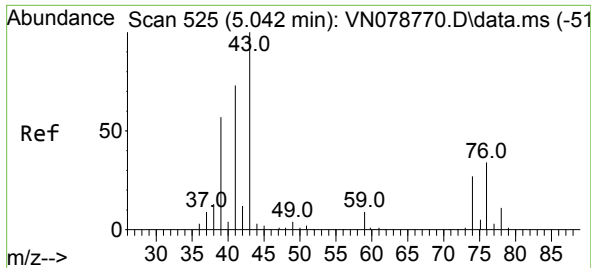
Tgt Ion: 59 Resp: 2797
Ion Ratio Lower Upper
59 100
57 2.4 8.2 12.4#



#16
Acetone
Concen: 71.050 ug/l
RT: 4.436 min Scan# 422
Delta R.T. -0.006 min
Lab File: VN078844.D
Acq: 10 Aug 2023 17:57

Tgt Ion: 43 Resp: 68199
Ion Ratio Lower Upper
43 100
58 29.1 28.0 42.0

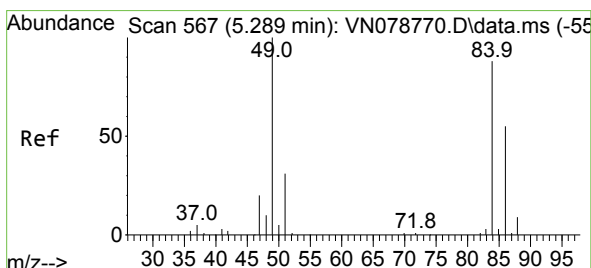
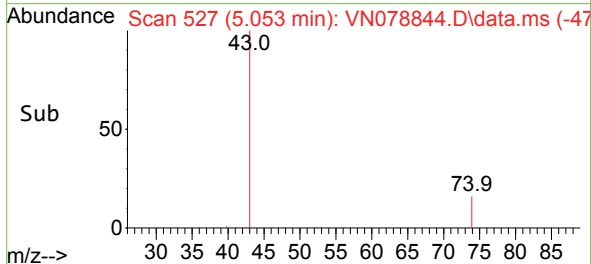
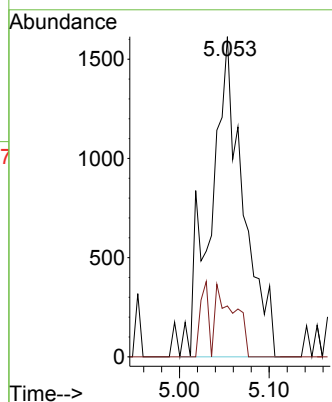
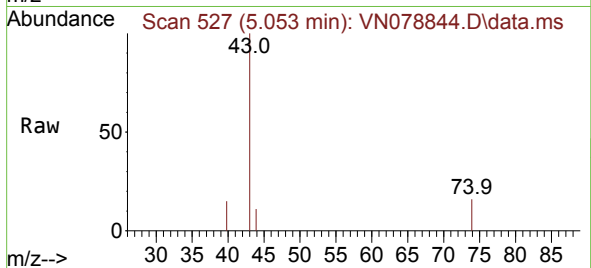




#18
Methyl Acetate
Concen: 0.939 ug/l
RT: 5.053 min Scan# 51
Delta R.T. 0.012 min
Lab File: VN078844.D
Acq: 10 Aug 2023 17:57

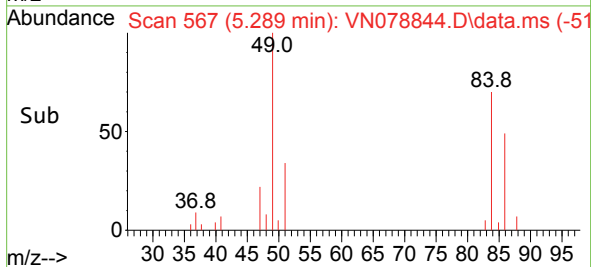
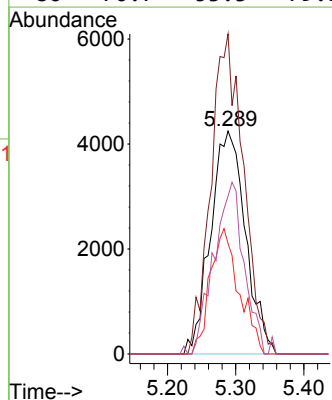
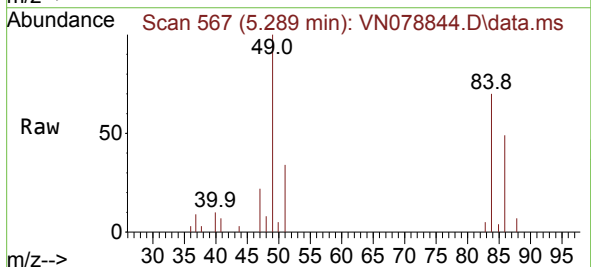
Instrument :
MSVOA_N
ClientSampleId :

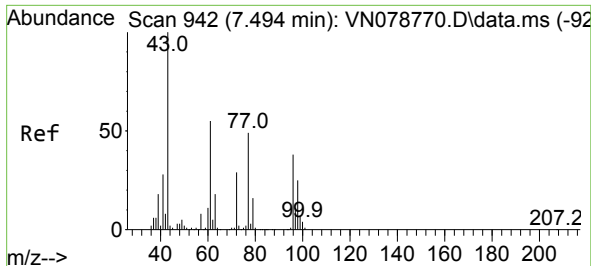
Tgt Ion: 43 Resp: 4049
Ion Ratio Lower Upper
43 100
74 13.5 26.2 39.4#



#20
Methylene Chloride
Concen: 6.351 ug/l
RT: 5.289 min Scan# 567
Delta R.T. -0.000 min
Lab File: VN078844.D
Acq: 10 Aug 2023 17:57

Tgt Ion: 84 Resp: 15099
Ion Ratio Lower Upper
84 100
49 143.5 79.7 119.5#
51 49.5 25.2 37.8#
86 70.7 53.3 79.9





#25

2-Butanone

Concen: 20.453 ug/l

RT: 7.494 min Scan# 942

Delta R.T. 0.000 min

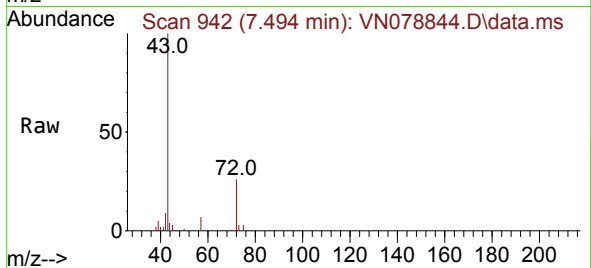
Lab File: VN078844.D

Acq: 10 Aug 2023 17:57

Instrument :

MSVOA_N

ClientSampleId :

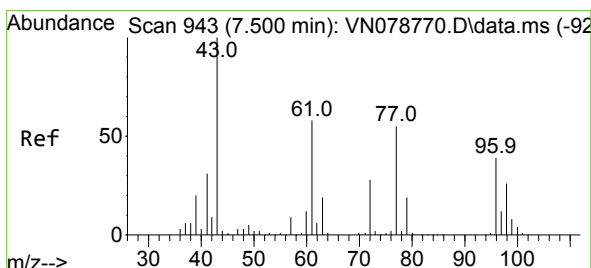
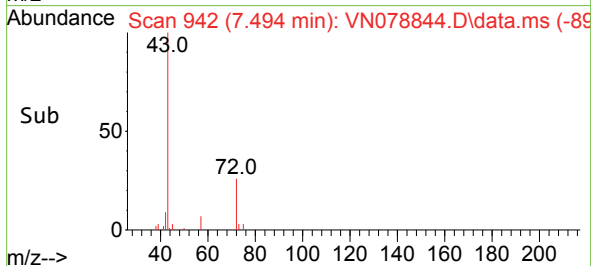
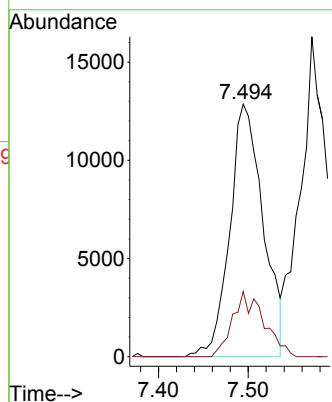


Tgt Ion: 43 Resp: 33244

Ion Ratio Lower Upper

43 100

72 25.9 30.2 45.2#



#26

2,2-Dichloropropane

Concen: 0.257 ug/l

RT: 7.436 min Scan# 932

Delta R.T. -0.065 min

Lab File: VN078844.D

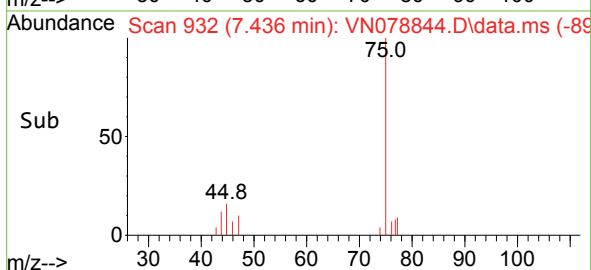
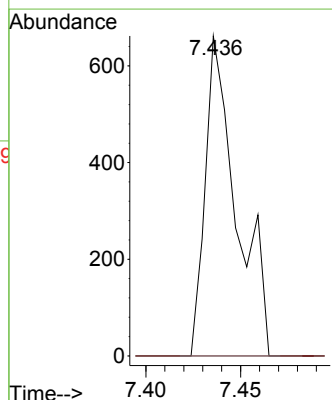
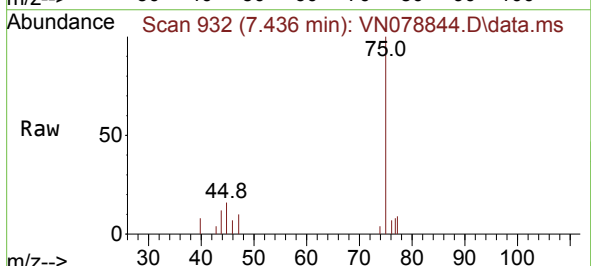
Acq: 10 Aug 2023 17:57

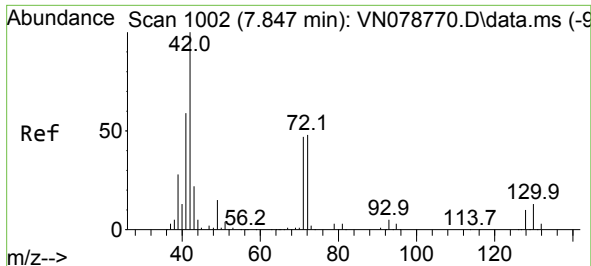
Tgt Ion: 77 Resp: 760

Ion Ratio Lower Upper

77 100

97 0.0 11.2 33.6#





#29

Tetrahydrofuran

Concen: 0.529 ug/l

RT: 7.847 min Scan# 1068

Delta R.T. 0.000 min

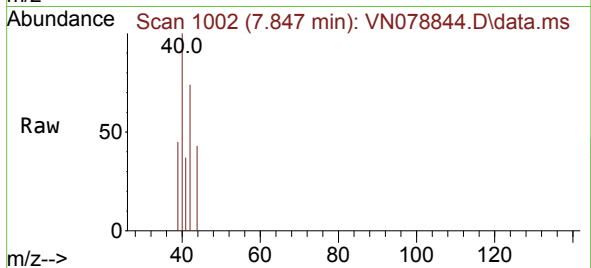
Lab File: VN078844.D

Acq: 10 Aug 2023 17:57

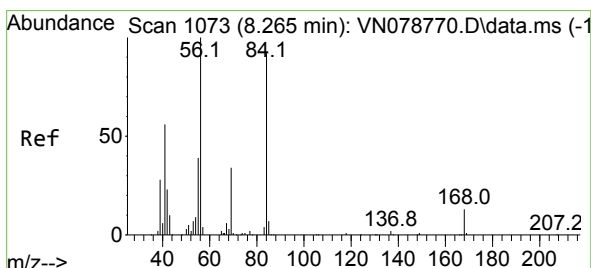
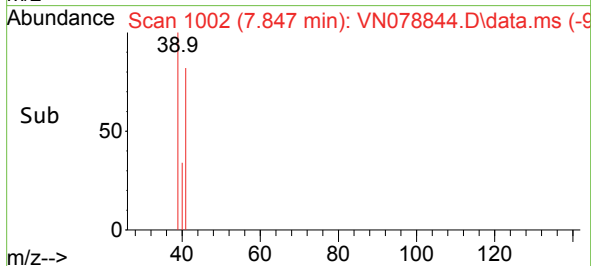
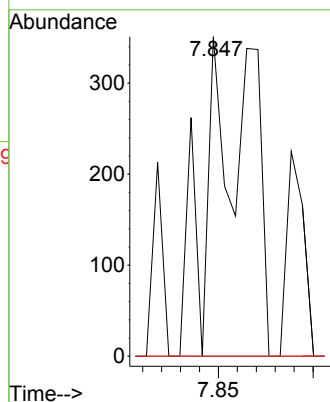
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	42	Resp:	575
Ion Ratio	Lower	Upper	
42	100		
72	0.0	49.8	74.6#
71	0.0	47.4	71.2#



#31

Cyclohexane

Concen: 1.372 ug/l

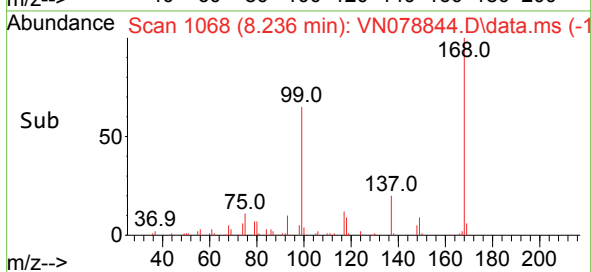
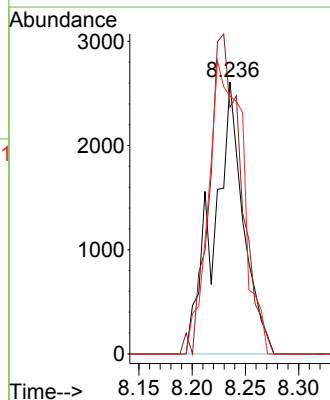
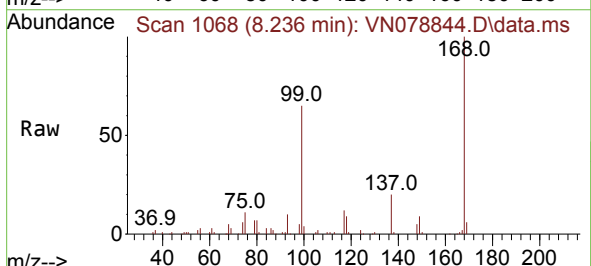
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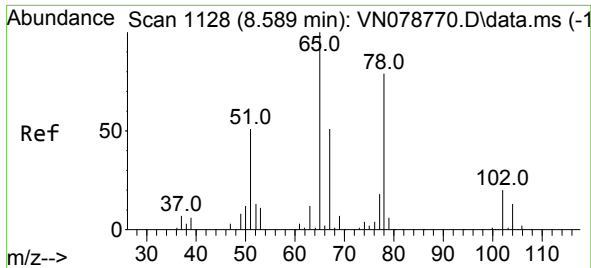
Delta R.T. -0.030 min

Lab File: VN078844.D

Acq: 10 Aug 2023 17:57

Tgt Ion:	56	Resp:	5029
Ion Ratio	Lower	Upper	
56	100		
69	90.7	26.8	40.2#
84	94.8	81.8	122.6





#33

1,2-Dichloroethane-d4

Concen: 55.939 ug/l

RT: 8.588 min Scan# 1128

Delta R.T. -0.000 min

Lab File: VN078844.D

Acq: 10 Aug 2023 17:57

Instrument :

MSVOA_N

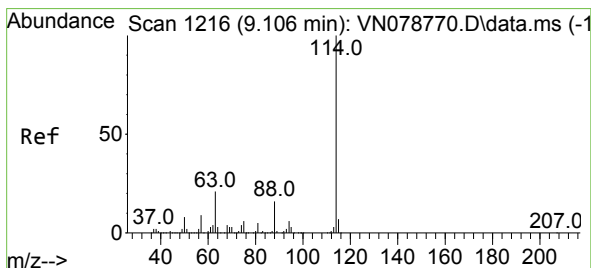
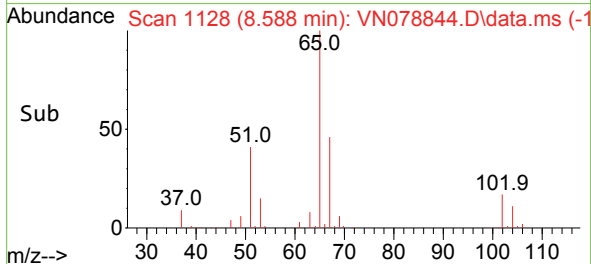
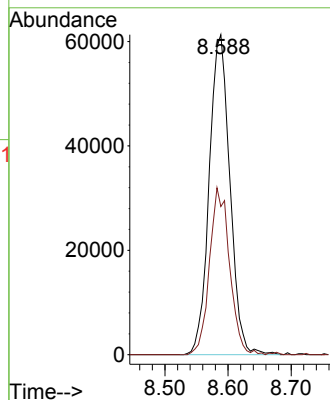
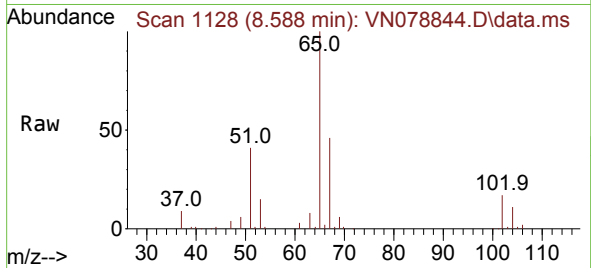
ClientSampleId :

Tgt Ion: 65 Resp: 139552

Ion Ratio Lower Upper

65 100

67 50.6 0.0 106.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.112 min Scan# 1217

Delta R.T. 0.006 min

Lab File: VN078844.D

Acq: 10 Aug 2023 17:57

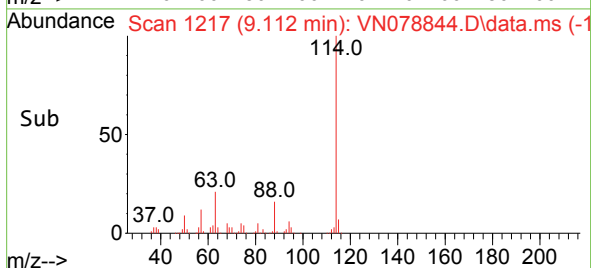
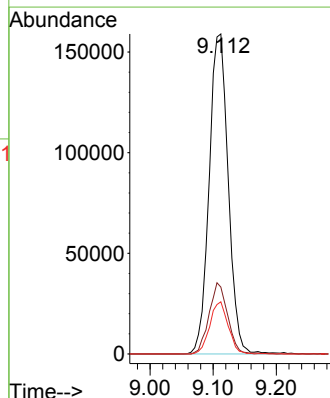
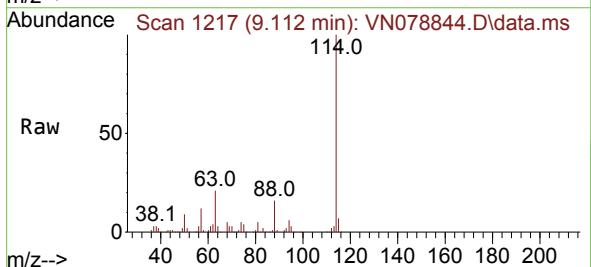
Tgt Ion: 114 Resp: 333483

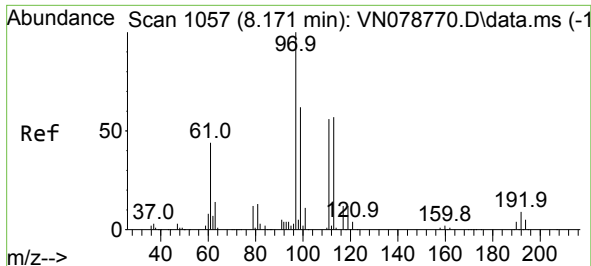
Ion Ratio Lower Upper

114 100

63 20.9 0.0 36.4

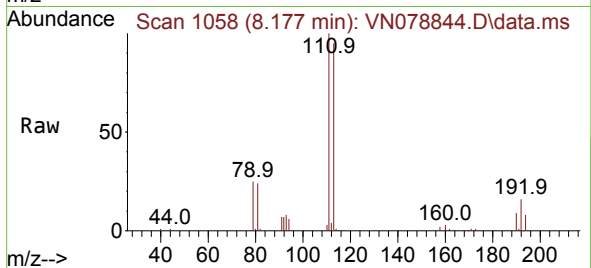
88 16.3 0.0 30.6



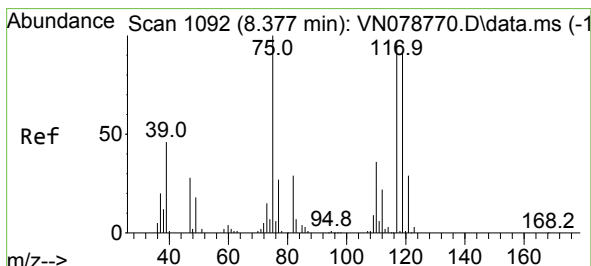
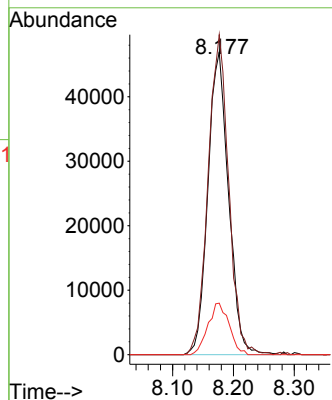
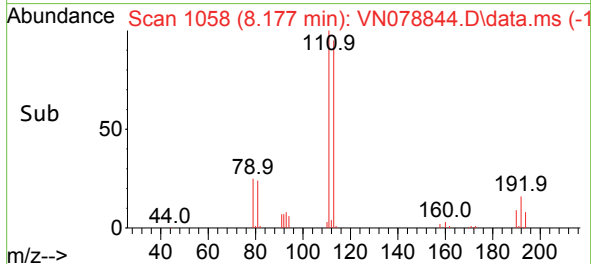


#35
Dibromofluoromethane
Concen: 49.062 ug/l
RT: 8.177 min Scan# 1057
Delta R.T. 0.006 min
Lab File: VN078844.D
Acq: 10 Aug 2023 17:57

Instrument :
MSVOA_N
ClientSampleId :

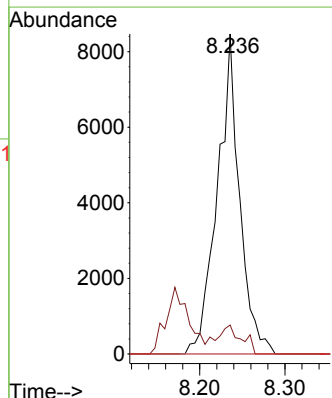
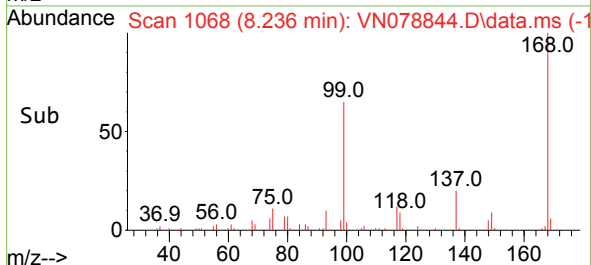
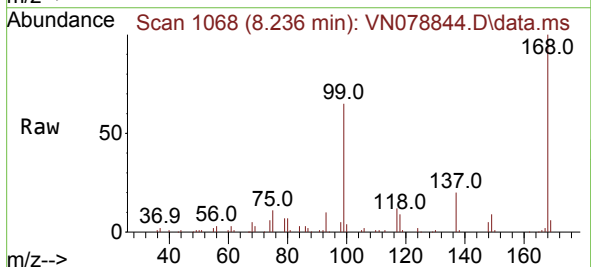


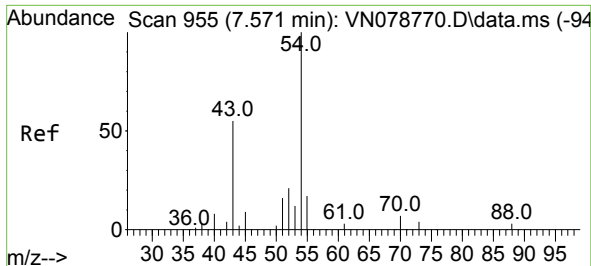
Tgt Ion:113 Resp: 110491
Ion Ratio Lower Upper
113 100
111 105.5 82.6 123.8
192 17.4 12.7 19.1



#36
1,1-Dichloropropene
Concen: 4.387 ug/l
RT: 8.236 min Scan# 1068
Delta R.T. -0.141 min
Lab File: VN078844.D
Acq: 10 Aug 2023 17:57

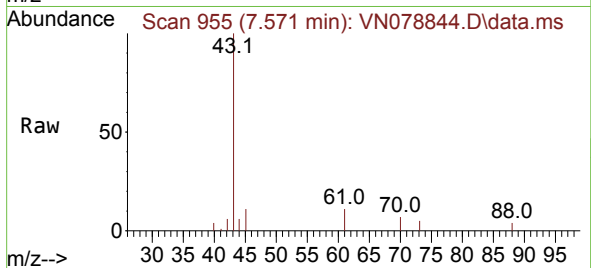
Tgt Ion: 75 Resp: 15326
Ion Ratio Lower Upper
75 100
110 8.2 19.1 57.3#
77 0.0 25.0 37.4#



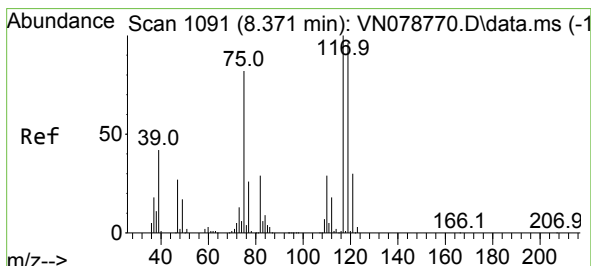
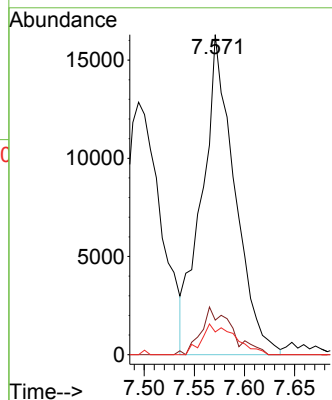
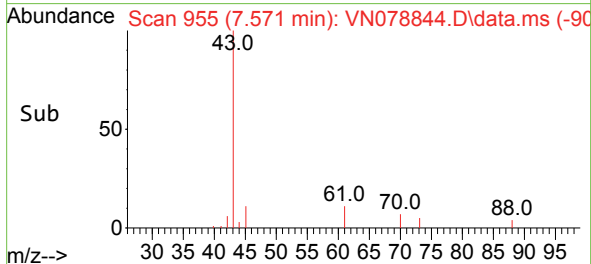


#37
Ethyl Acetate
Concen: 9.953 ug/l
RT: 7.571 min Scan# 91
Delta R.T. -0.000 min
Lab File: VN078844.D
Acq: 10 Aug 2023 17:57

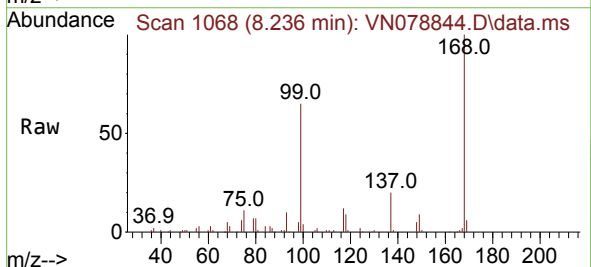
Instrument :
MSVOA_N
ClientSampleId :



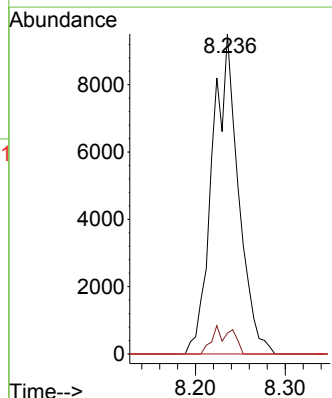
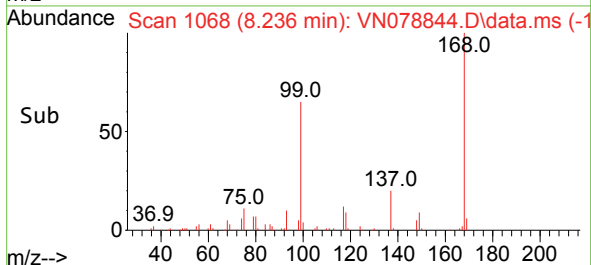
Tgt Ion: 43 Resp: 36972
Ion Ratio Lower Upper
43 100
61 14.0 13.2 19.8
70 9.7 11.3 16.9#

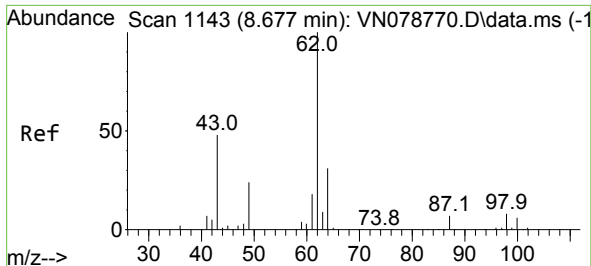


#38
Carbon Tetrachloride
Concen: 5.358 ug/l
RT: 8.236 min Scan# 1068
Delta R.T. -0.135 min
Lab File: VN078844.D
Acq: 10 Aug 2023 17:57



Tgt Ion: 117 Resp: 19300
Ion Ratio Lower Upper
117 100
119 6.5 77.3 115.9#
121 0.0 23.3 34.9#





#42

1,2-Dichloroethane

Concen: 0.360 ug/l

RT: 8.694 min Scan# 1146

Delta R.T. 0.018 min

Lab File: VN078844.D

Acq: 10 Aug 2023 17:57

Instrument :

MSVOA_N

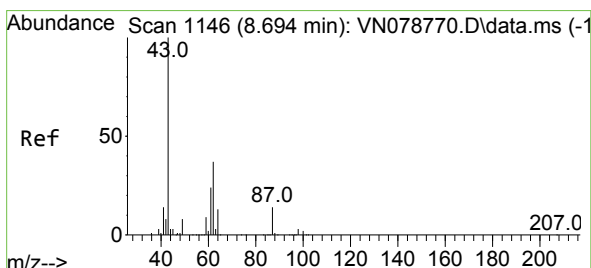
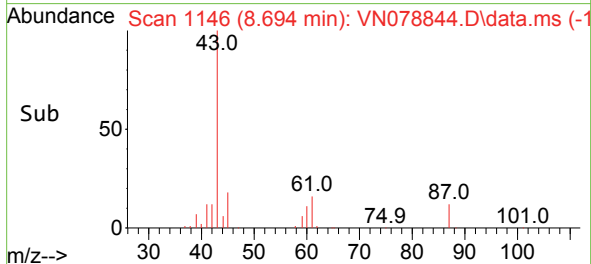
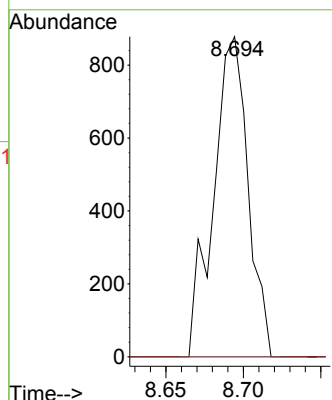
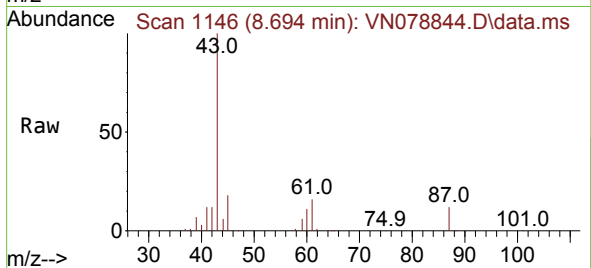
ClientSampleId :

Tgt Ion: 62 Resp: 1369

Ion Ratio Lower Upper

62 100

98 0.0 0.0 19.8



#43

Isopropyl Acetate

Concen: 37.239 ug/l

RT: 8.700 min Scan# 1147

Delta R.T. 0.006 min

Lab File: VN078844.D

Acq: 10 Aug 2023 17:57

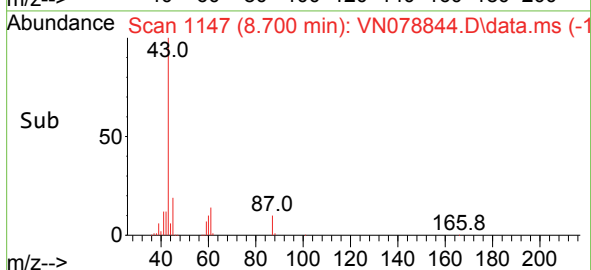
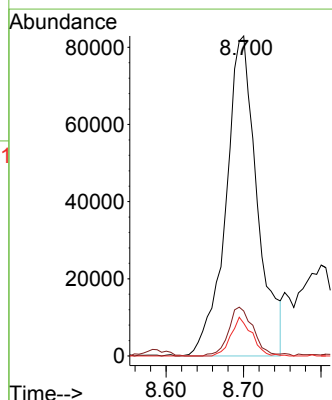
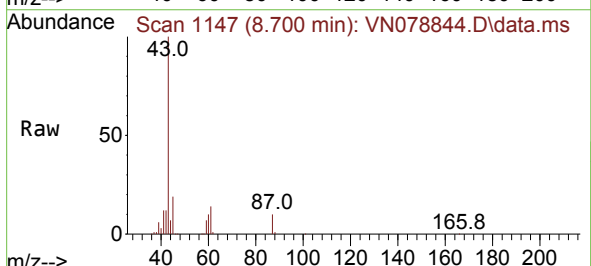
Tgt Ion: 43 Resp: 233228

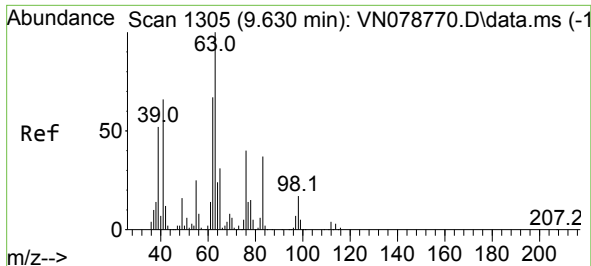
Ion Ratio Lower Upper

43 100

61 12.2 24.7 37.1#

87 8.1 14.6 21.8#





#45

1,2-Dichloropropane

Concen: 0.641 ug/l

RT: 9.747 min Scan# 11

Delta R.T. 0.118 min

Lab File: VN078844.D

Acq: 10 Aug 2023 17:57

Instrument :

MSVOA_N

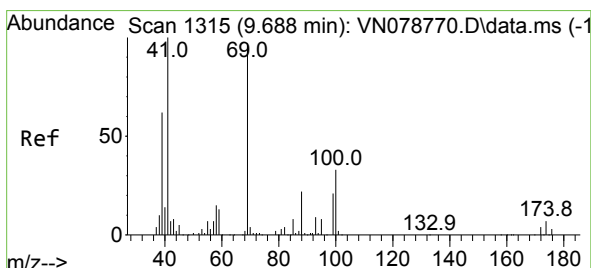
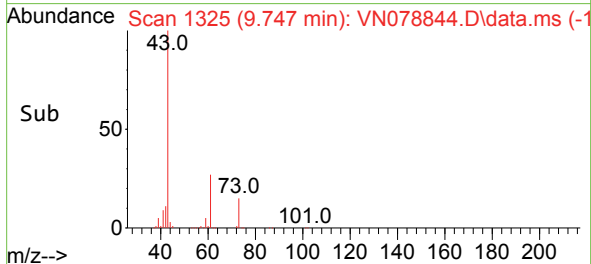
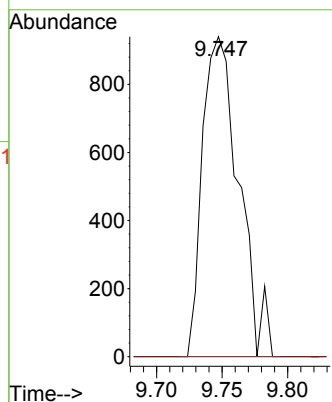
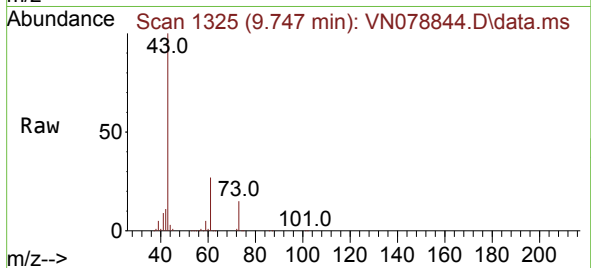
ClientSampleId :

Tgt Ion: 63 Resp: 1817

Ion Ratio Lower Upper

63 100

65 0.0 23.9 35.9#



#48

Methyl methacrylate

Concen: 2.115 ug/l

RT: 9.671 min Scan# 1312

Delta R.T. -0.018 min

Lab File: VN078844.D

Acq: 10 Aug 2023 17:57

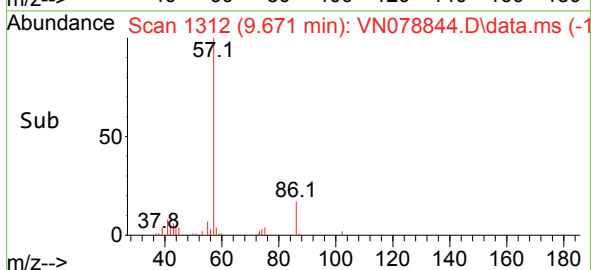
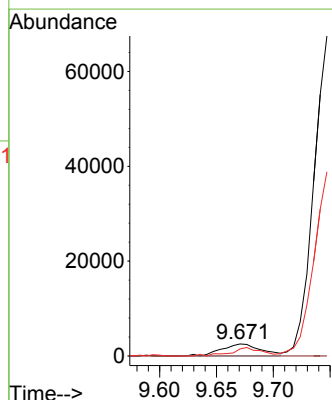
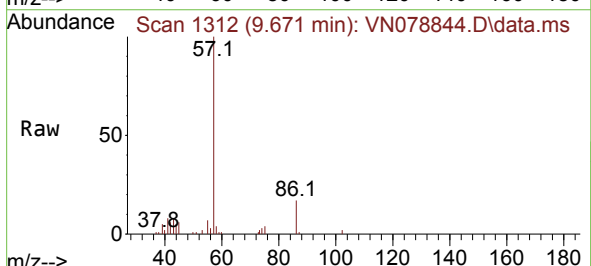
Tgt Ion: 41 Resp: 6120

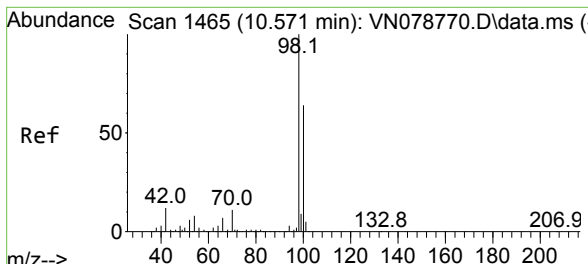
Ion Ratio Lower Upper

41 100

69 0.0 90.4 135.6#

39 52.4 54.6 81.8#

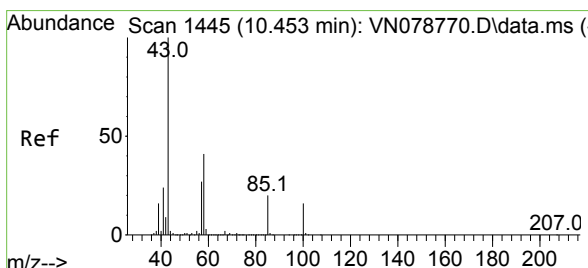
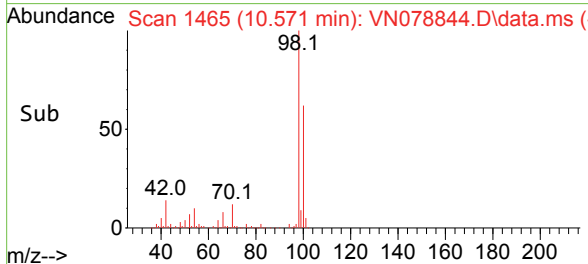
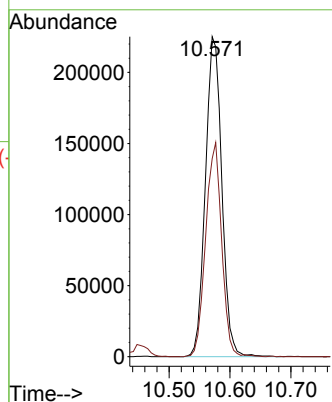
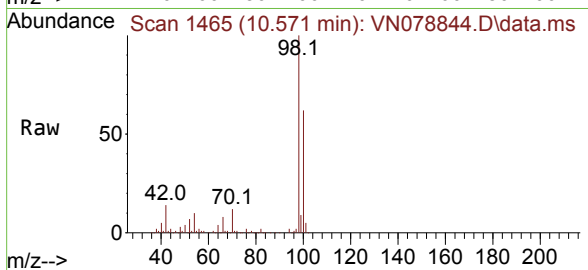




#50
Toluene-d8
Concen: 50.888 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VN078844.D
Acq: 10 Aug 2023 17:57

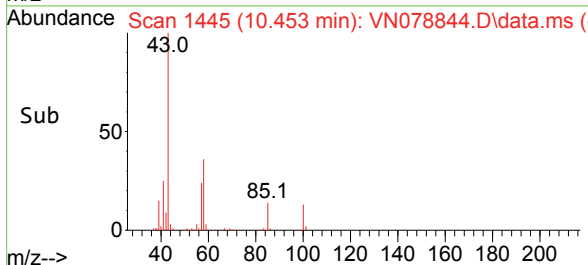
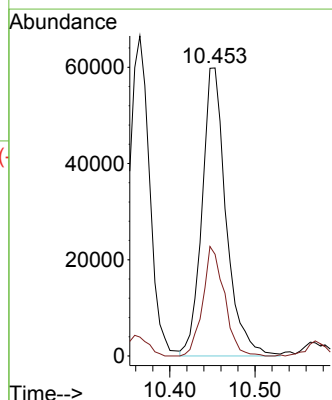
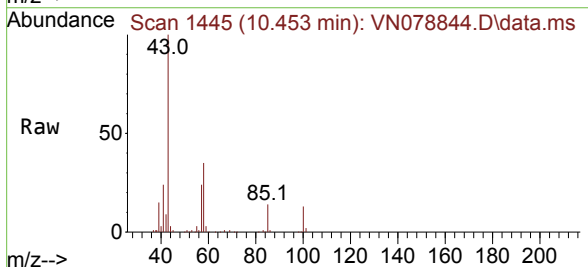
Instrument :
MSVOA_N
ClientSampleId :

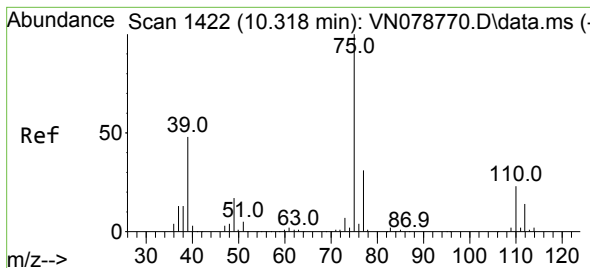
Tgt Ion: 98 Resp: 421739
Ion Ratio Lower Upper
98 100
100 65.3 52.0 78.0



#51
4-Methyl-2-Pentanone
Concen: 30.709 ug/l
RT: 10.453 min Scan# 1445
Delta R.T. 0.000 min
Lab File: VN078844.D
Acq: 10 Aug 2023 17:57

Tgt Ion: 43 Resp: 117807
Ion Ratio Lower Upper
43 100
58 34.0 36.6 54.8#

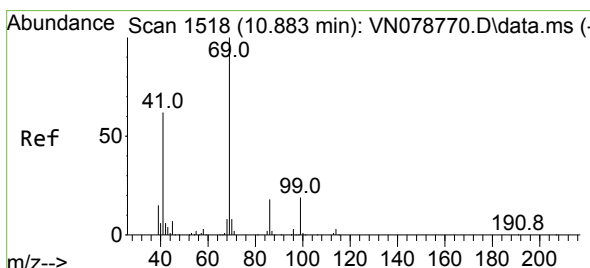
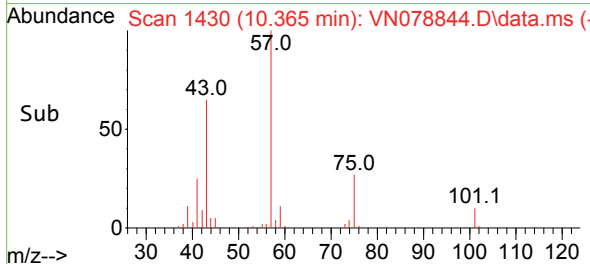
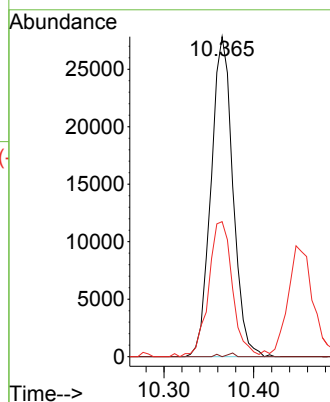
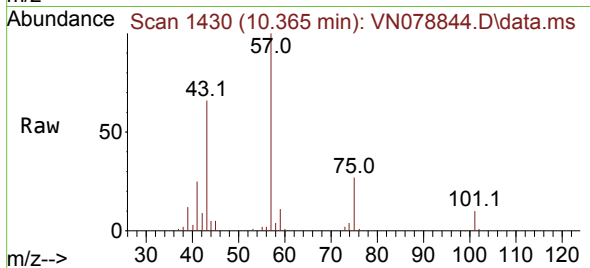




#54
 cis-1,3-Dichloropropene
 Concen: 11.319 ug/l
 RT: 10.365 min Scan# 1422
 Delta R.T. 0.047 min
 Lab File: VN078844.D
 Acq: 10 Aug 2023 17:57

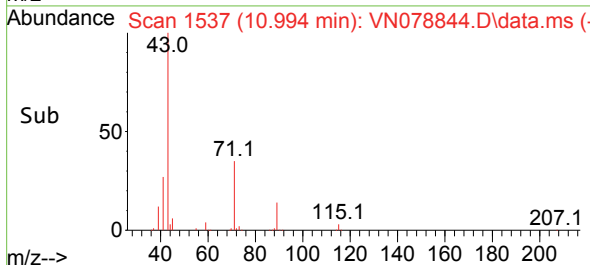
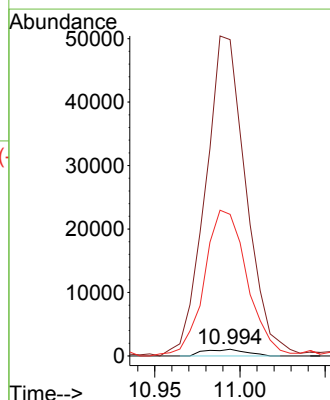
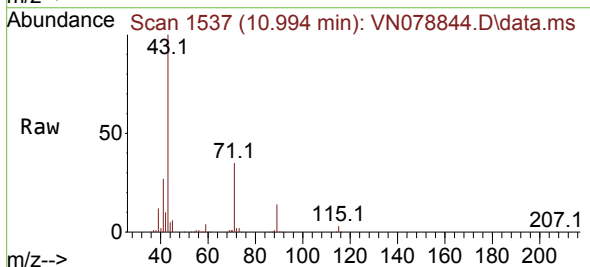
Instrument :
 MSVOA_N
 ClientSampleId :

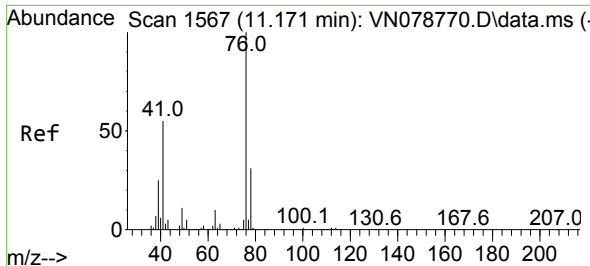
Tgt Ion: 75 Resp: 47153
 Ion Ratio Lower Upper
 75 100
 77 0.0 26.1 39.1#
 39 42.2 31.6 47.4



#56
 Ethyl methacrylate
 Concen: 0.474 ug/l
 RT: 10.994 min Scan# 1537
 Delta R.T. 0.112 min
 Lab File: VN078844.D
 Acq: 10 Aug 2023 17:57

Tgt Ion: 69 Resp: 1763
 Ion Ratio Lower Upper
 69 100
 41 4779.0 39.6 59.4#
 39 2289.8 28.6 43.0#





#57

1,3-Dichloropropane

Concen: 1.290 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.029 min

Lab File: VN078844.D

Acq: 10 Aug 2023 17:57

Instrument :

MSVOA_N

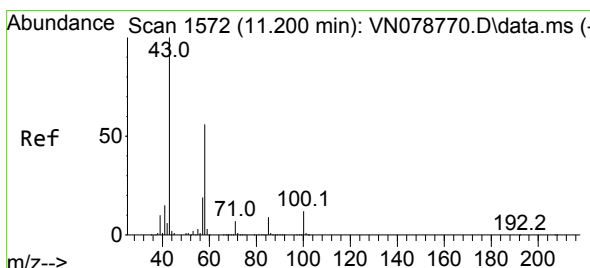
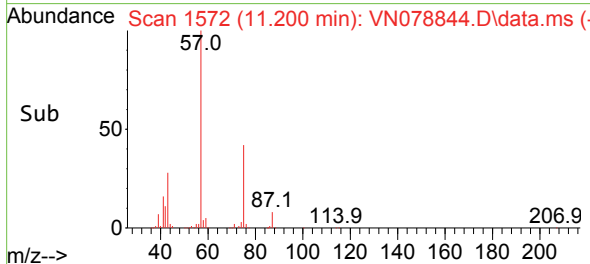
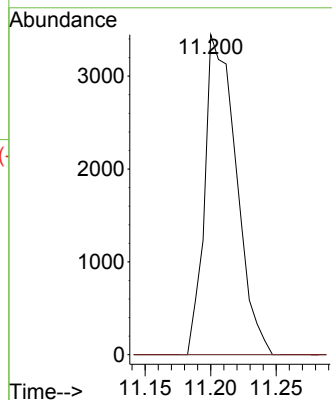
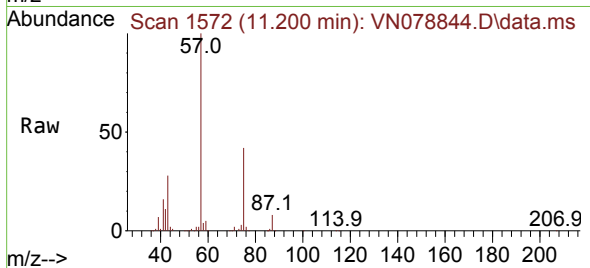
ClientSampleId :

Tgt Ion: 76 Resp: 5754

Ion Ratio Lower Upper

76 100

78 0.0 26.1 39.1#



#59

2-Hexanone

Concen: 50.040 ug/l

RT: 11.177 min Scan# 1568

Delta R.T. -0.023 min

Lab File: VN078844.D

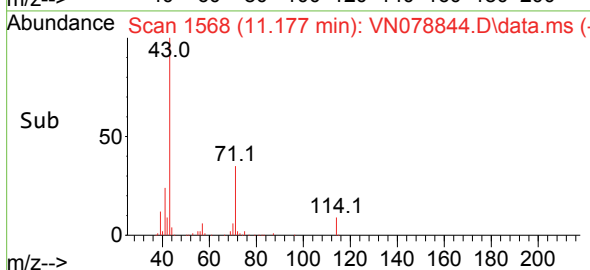
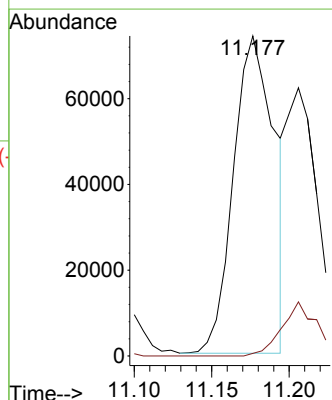
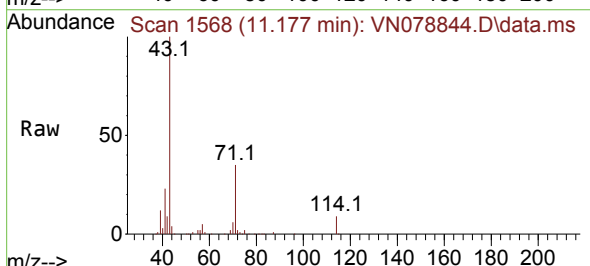
Acq: 10 Aug 2023 17:57

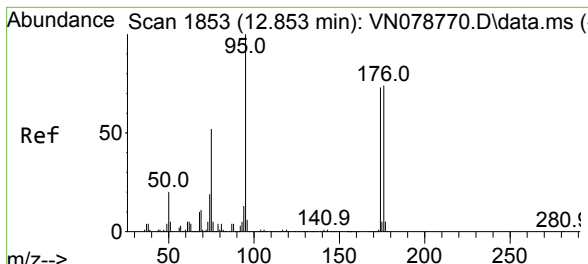
Tgt Ion: 43 Resp: 135928

Ion Ratio Lower Upper

43 100

58 0.0 31.7 95.1#

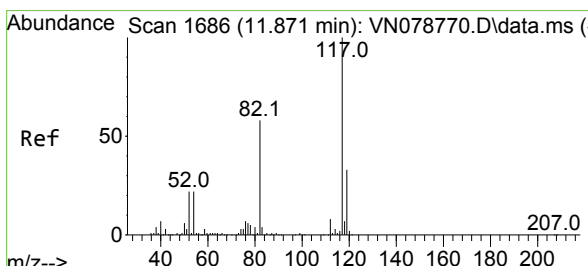
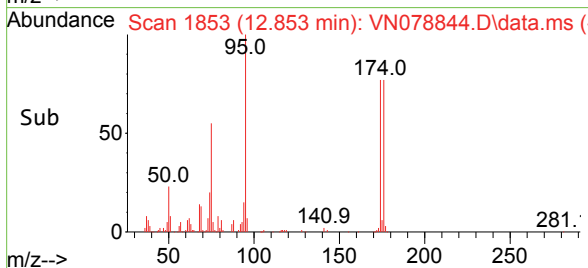
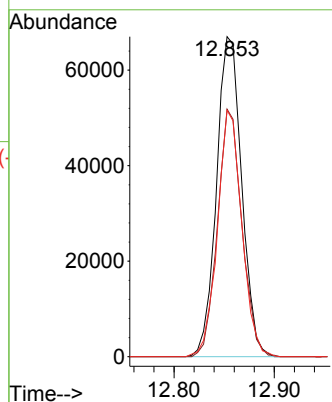
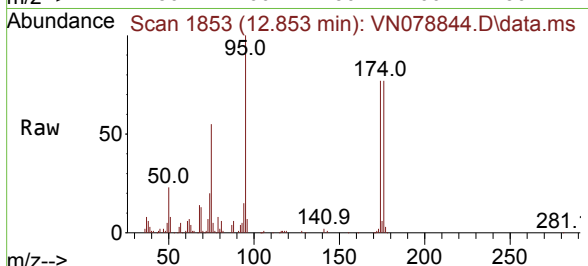




#62
4-Bromofluorobenzene
Concen: 47.082 ug/l
RT: 12.853 min Scan# 116614
Delta R.T. -0.000 min
Lab File: VN078844.D
Acq: 10 Aug 2023 17:57

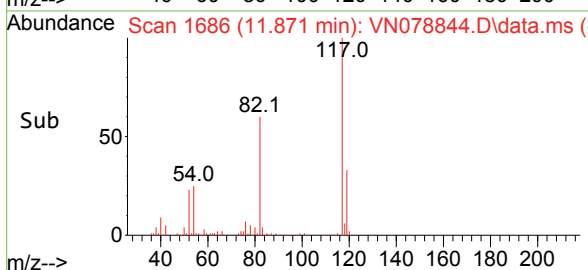
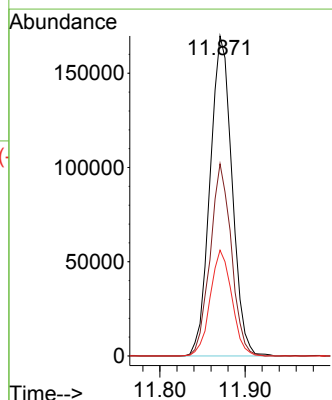
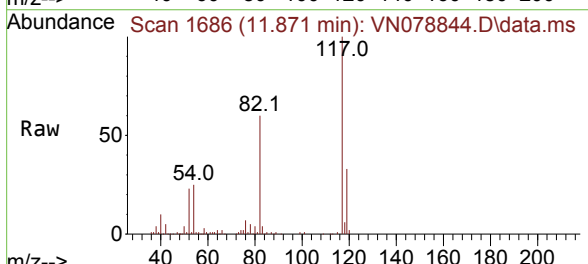
Instrument :
MSVOA_N
ClientSampleId :

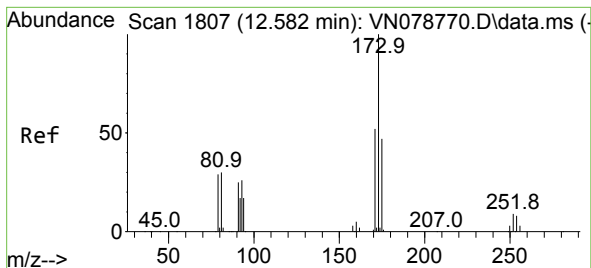
Tgt Ion:	95	Resp:	116614
Ion Ratio	Lower	Upper	
95	100		
174	74.8	0.0	143.8
176	74.4	0.0	135.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 1686
Delta R.T. -0.000 min
Lab File: VN078844.D
Acq: 10 Aug 2023 17:57

Tgt Ion:	117	Resp:	304732
Ion Ratio	Lower	Upper	
117	100		
82	60.1	44.0	66.0
119	33.0	25.6	38.4





#71

Bromoform

Concen: 0.599 ug/l

RT: 12.853 min Scan# 1807

Delta R.T. 0.270 min

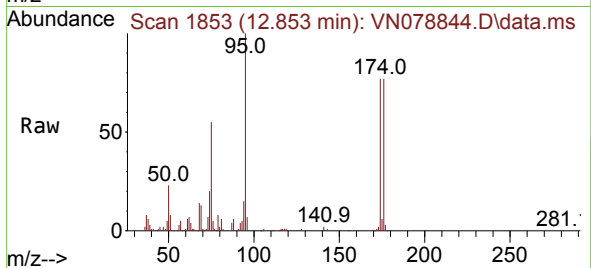
Lab File: VN078844.D

Acq: 10 Aug 2023 17:57

Instrument :

MSVOA_N

ClientSampleId :



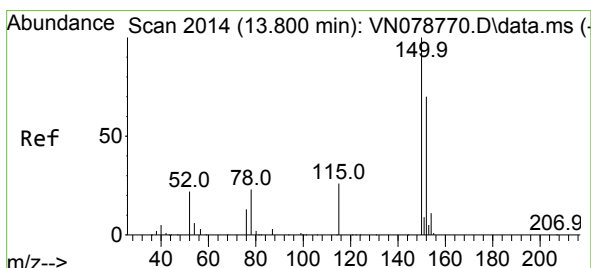
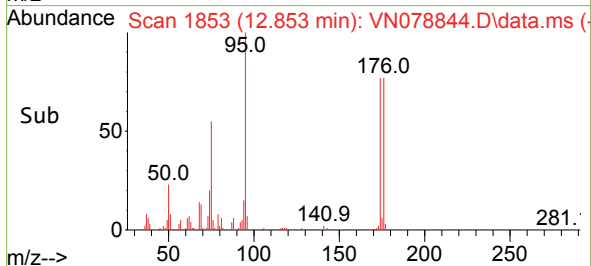
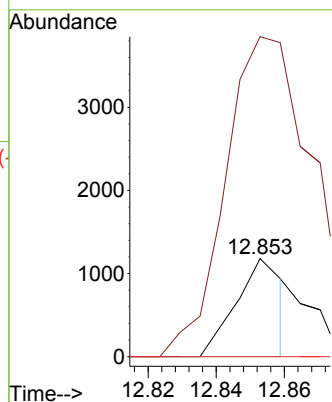
Tgt Ion:173 Resp: 1123

Ion Ratio Lower Upper

173 100

175 422.0 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. -0.000 min

Lab File: VN078844.D

Acq: 10 Aug 2023 17:57

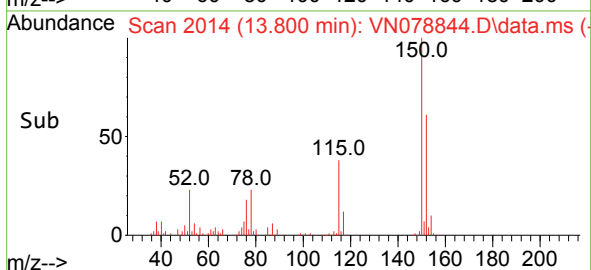
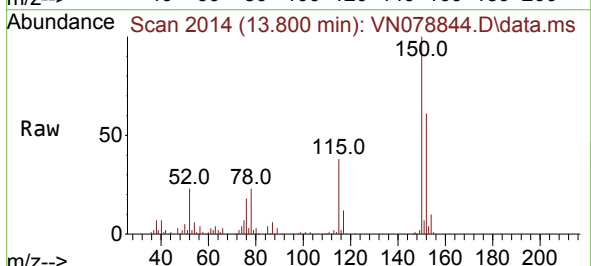
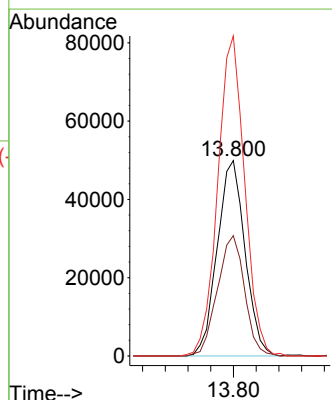
Tgt Ion:152 Resp: 84675

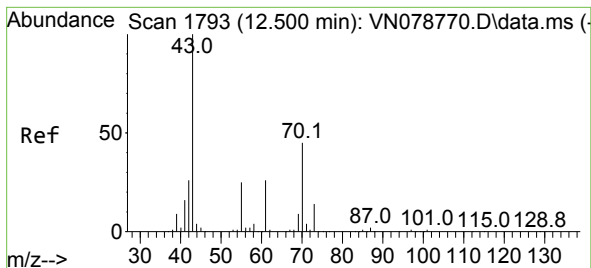
Ion Ratio Lower Upper

152 100

115 60.1 32.3 96.8

150 158.9 0.0 355.8





#74

N-amy1 acetate

Concen: 1.149 ug/l

RT: 12.488 min Scan# 1

Delta R.T. -0.012 min

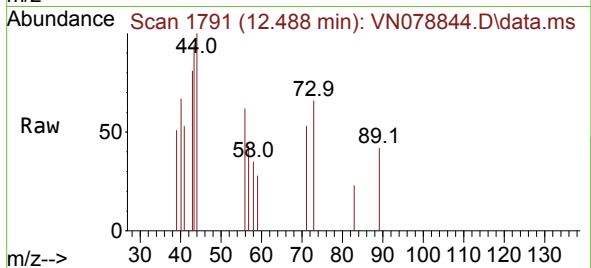
Lab File: VN078844.D

Acq: 10 Aug 2023 17:57

Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion: 43 Resp: 4343

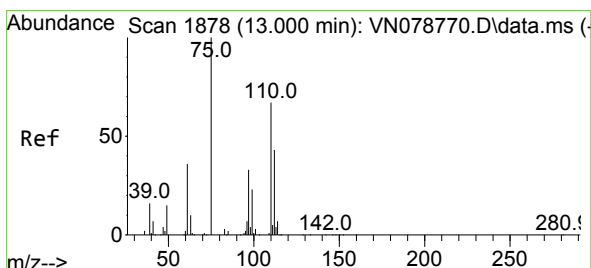
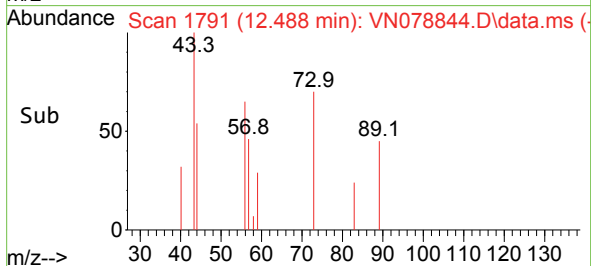
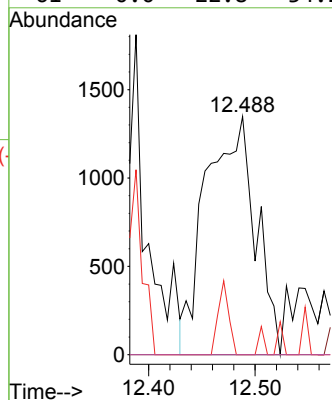
Ion Ratio Lower Upper

43 100

70 0.0 43.4 65.2#

55 6.7 21.4 32.0#

61 0.0 22.8 34.2#



#76

1,2,3-Trichloropropane

Concen: 28.286 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. -0.147 min

Lab File: VN078844.D

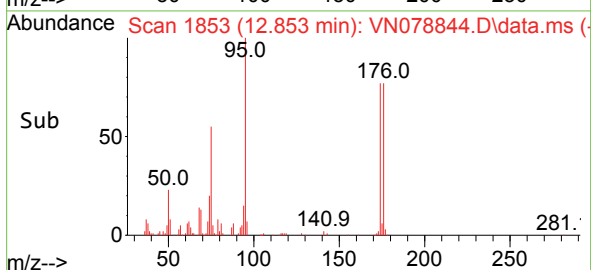
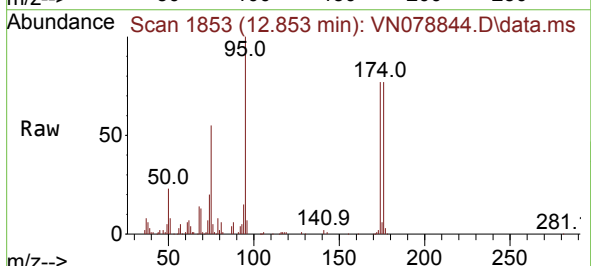
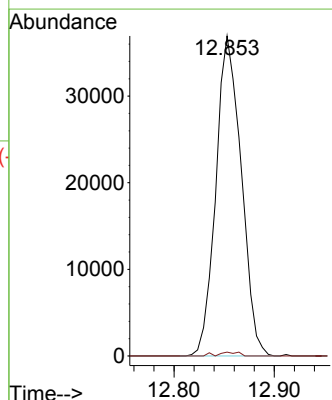
Acq: 10 Aug 2023 17:57

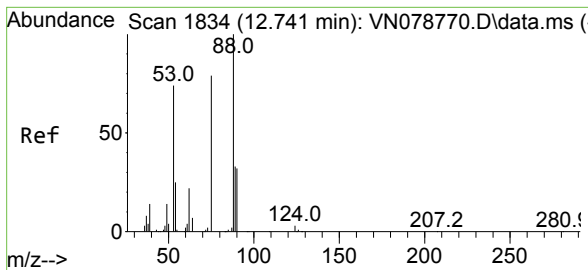
Tgt Ion: 75 Resp: 64756

Ion Ratio Lower Upper

75 100

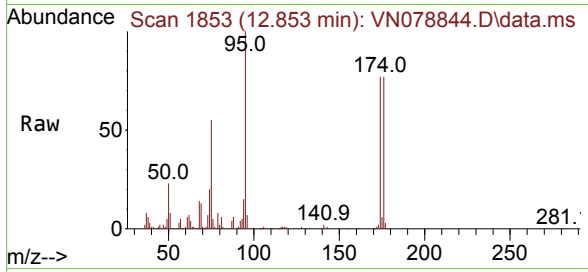
77 1.0 84.5 253.5#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 75.901 ug/l
 RT: 12.853 min Scan# 11
 Delta R.T. 0.112 min
 Lab File: VN078844.D
 Acq: 10 Aug 2023 17:57

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion	Ratio	Lower	Upper
75	100		
53	0.3	67.4	101.2#
89	0.0	38.8	58.2#

