

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081823\
 Data File : VN078951.D
 Acq On : 18 Aug 2023 18:48
 Operator : JC\MD
 Sample : PB154902ZHE#08
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Aug 18 23:47:00 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)

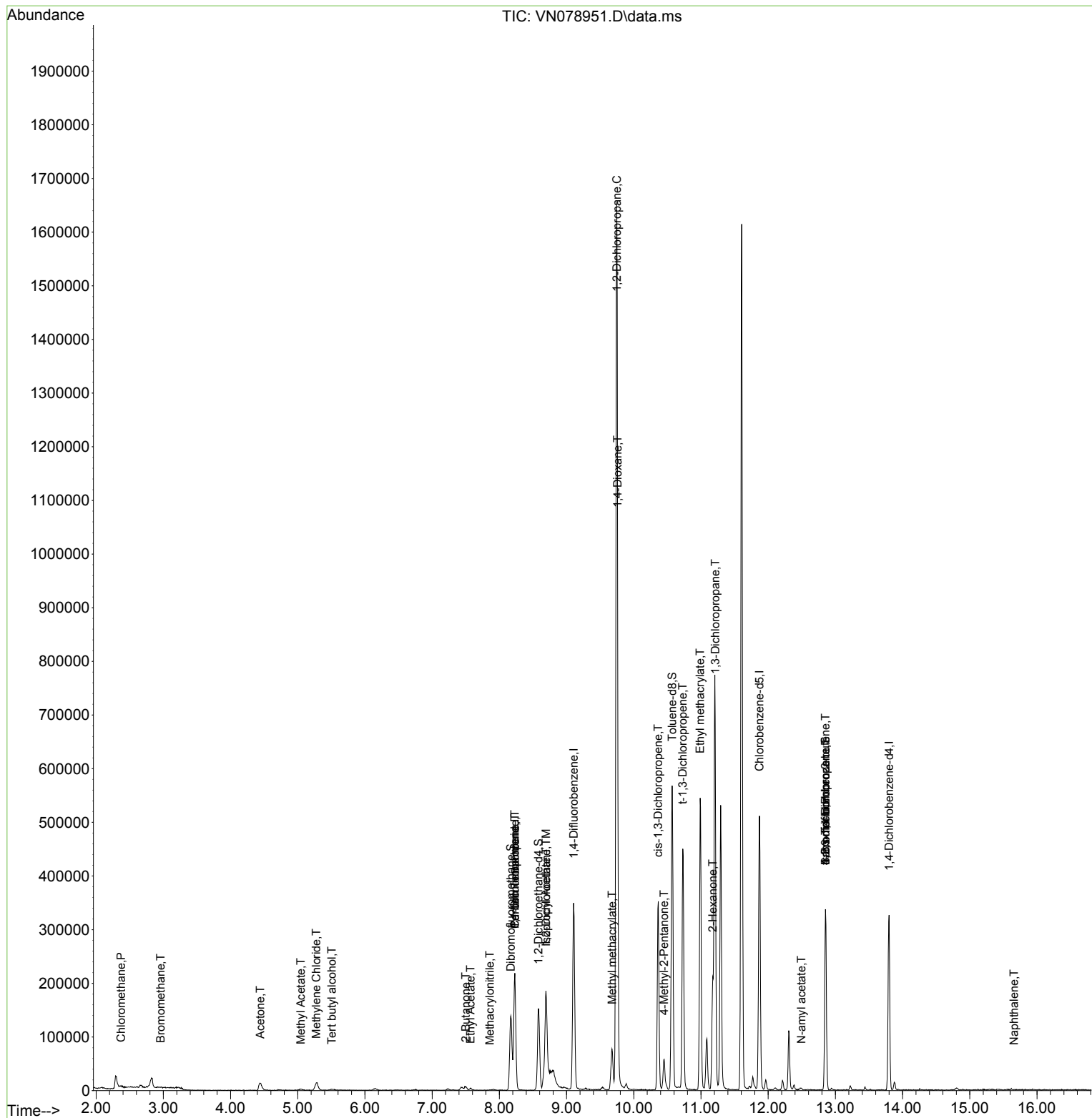
Internal Standards						
1) Pentafluorobenzene	8.229	168	153914	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	289970	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.870	117	288675	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	85882	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	121877	50.887	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 101.780%			
35) Dibromofluoromethane	8.171	113	102145	52.330	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 104.660%			
50) Toluene-d8	10.571	98	379926	52.420	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 104.840%			
62) 4-Bromofluorobenzene	12.853	95	105589	44.572	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 89.140%			
Target Compounds					Qvalue	
3) Chloromethane	2.371	50	1345	0.451	ug/l #	78
5) Bromomethane	2.959	94	352	0.234	ug/l #	4
11) Tert butyl alcohol	5.506	59	1485	3.695	ug/l #	72
16) Acetone	4.441	43	28036	28.370	ug/l	90
18) Methyl Acetate	5.047	43	5145	1.232	ug/l #	49
20) Methylene Chloride	5.277	84	10741	5.100	ug/l #	77
25) 2-Butanone	7.500	43	12082	7.626	ug/l #	61
31) Cyclohexane	8.229	56	4339	Below Cal	#	61
36) 1,1-Dichloropropene	8.229	75	12867	4.382	ug/l #	50
37) Ethyl Acetate	7.571	43	4548	1.384	ug/l #	82
38) Carbon Tetrachloride	8.229	117	15742	5.351	ug/l #	20
41) Methacrylonitrile	7.859	41	433	0.242	ug/l #	21
42) 1,2-Dichloroethane	8.694	62	797	0.246	ug/l #	73
43) Isopropyl Acetate	8.694	43	240125	41.354	ug/l #	72
45) 1,2-Dichloropropane	9.747	63	2348	1.016	ug/l #	45
48) Methyl methacrylate	9.676	41	5577	2.120	ug/l #	34
49) 1,4-Dioxane	9.759	88	57	1.272	ug/l #	1
51) 4-Methyl-2-Pentanone	10.453	43	46680	13.554	ug/l #	80
53) t-1,3-Dichloropropene	10.729	75	1135	0.338	ug/l #	3
54) cis-1,3-Dichloropropene	10.365	75	56548	15.471	ug/l #	71
56) Ethyl methacrylate	10.988	69	2414	0.729	ug/l #	1
57) 1,3-Dichloropropane	11.212	76	7509	1.965	ug/l #	42
59) 2-Hexanone	11.176	43	147615	59.179	ug/l #	19
71) Bromoform	12.853	173	1273	0.754	ug/l #	1
74) N-amyl acetate	12.494	43	1621	0.448	ug/l #	36
76) 1,2,3-Trichloropropane	12.853	75	61375	29.659	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	61375	75.767	ug/l #	15
95) Naphthalene	15.658	128	56	2.588	ug/l #	70

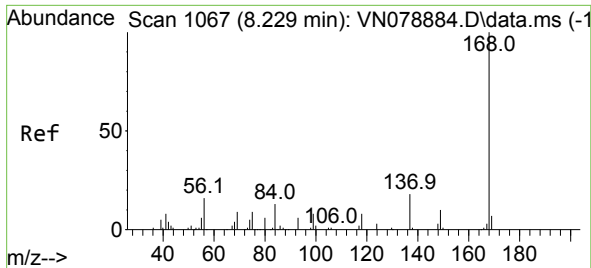
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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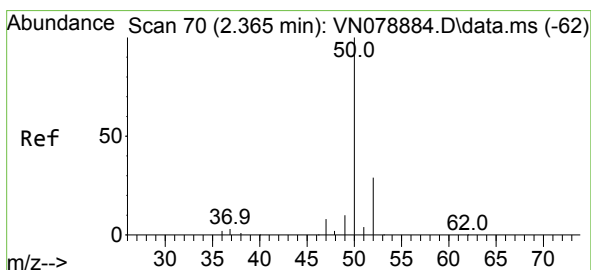
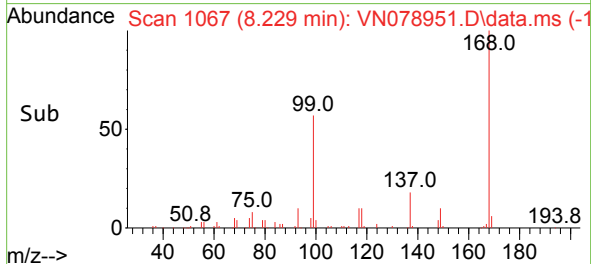
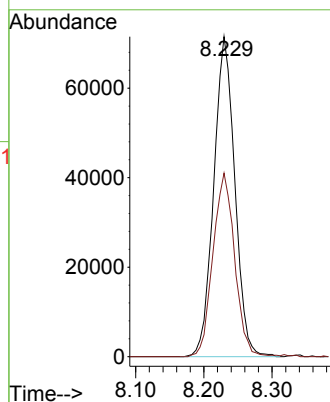
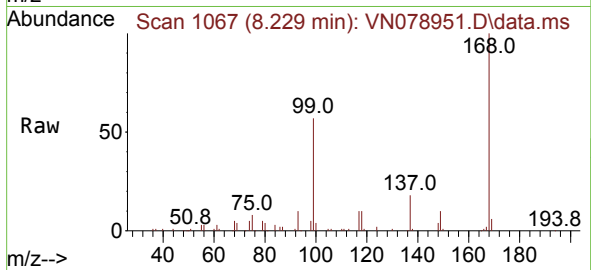




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.229 min Scan# 1067
Delta R.T. -0.001 min
Lab File: VN078951.D
Acq: 18 Aug 2023 18:48

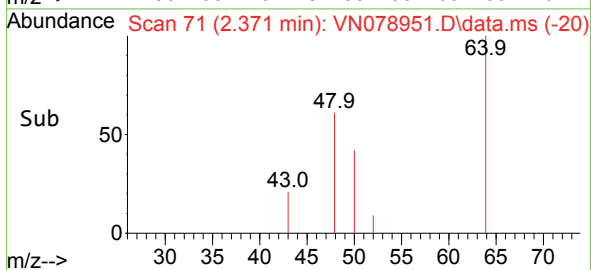
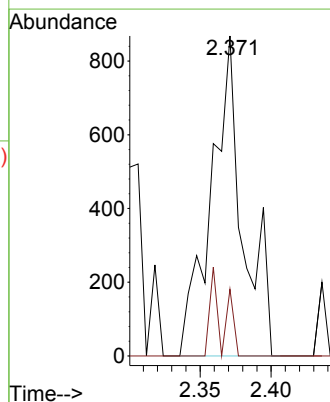
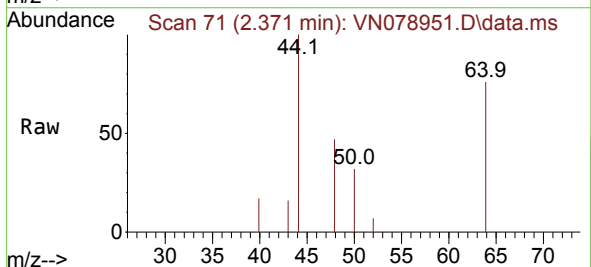
Instrument :
MSVOA_N
ClientSampleId :

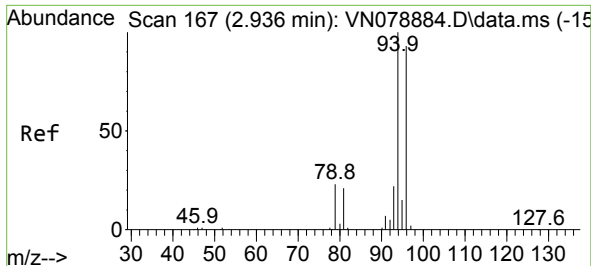
Tgt Ion:168 Resp: 153914
Ion Ratio Lower Upper
168 100
99 57.4 53.0 79.6



#3
Chloromethane
Concen: 0.451 ug/l
RT: 2.371 min Scan# 71
Delta R.T. 0.000 min
Lab File: VN078951.D
Acq: 18 Aug 2023 18:48

Tgt Ion: 50 Resp: 1345
Ion Ratio Lower Upper
50 100
52 20.9 26.5 39.7#





#5

Bromomethane

Concen: 0.234 ug/l

RT: 2.959 min Scan# 1

Delta R.T. 0.011 min

Lab File: VN078951.D

Acq: 18 Aug 2023 18:48

Instrument :

MSVOA_N

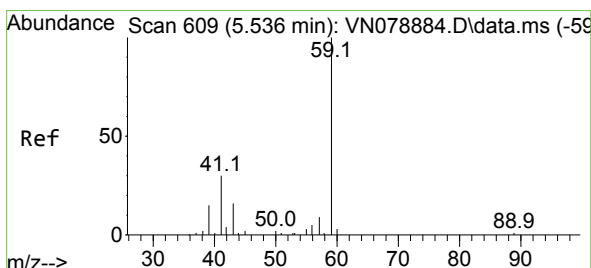
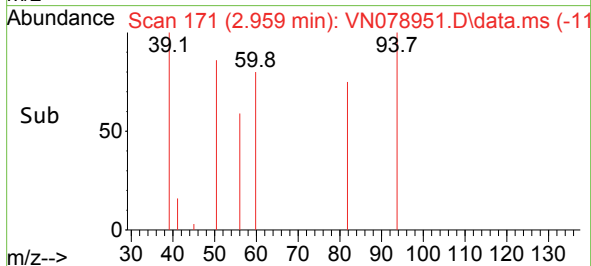
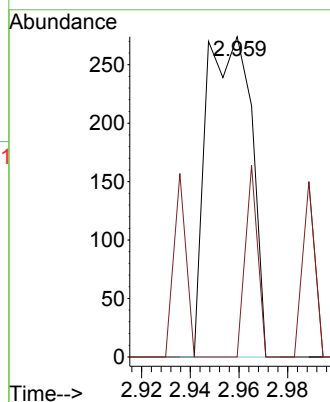
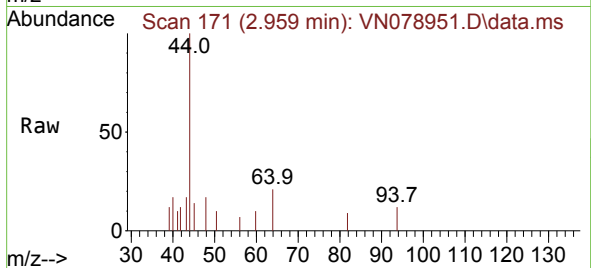
ClientSampleId :

Tgt Ion: 94 Resp: 352

Ion Ratio Lower Upper

94 100

96 0.0 73.1 109.7#



#11

Tert butyl alcohol

Concen: 3.695 ug/l

RT: 5.506 min Scan# 604

Delta R.T. -0.036 min

Lab File: VN078951.D

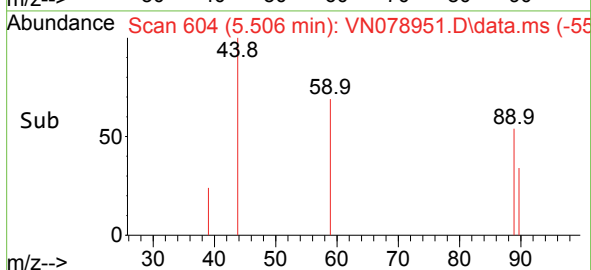
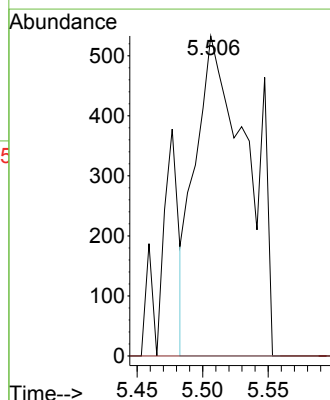
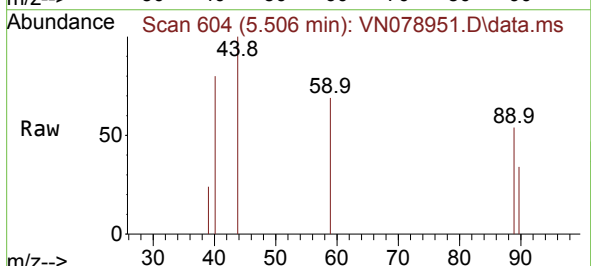
Acq: 18 Aug 2023 18:48

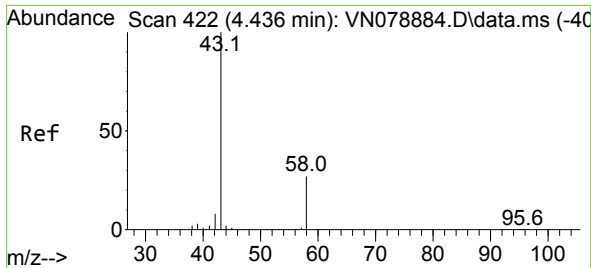
Tgt Ion: 59 Resp: 1485

Ion Ratio Lower Upper

59 100

57 0.0 8.2 12.4#

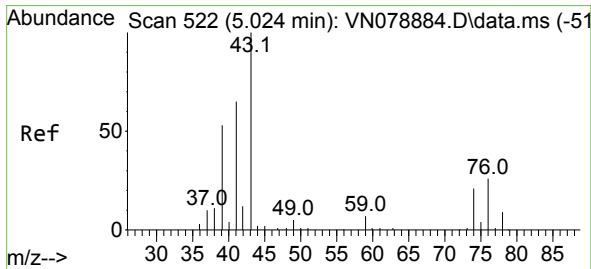
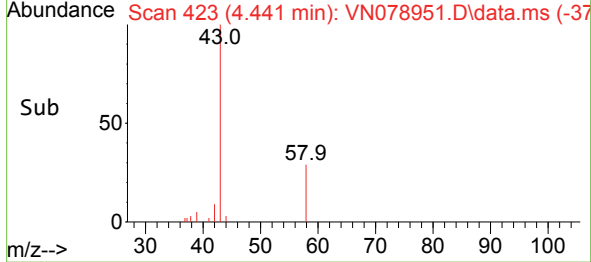
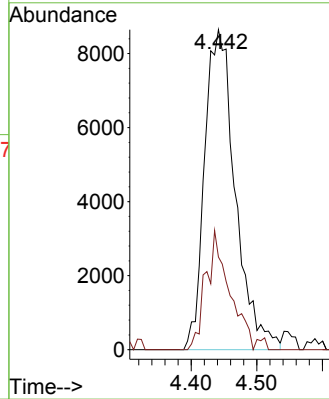
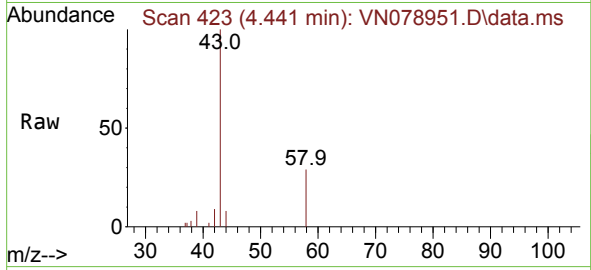




#16
Acetone
Concen: 28.370 ug/l
RT: 4.441 min Scan# 41
Delta R.T. -0.001 min
Lab File: VN078951.D
Acq: 18 Aug 2023 18:48

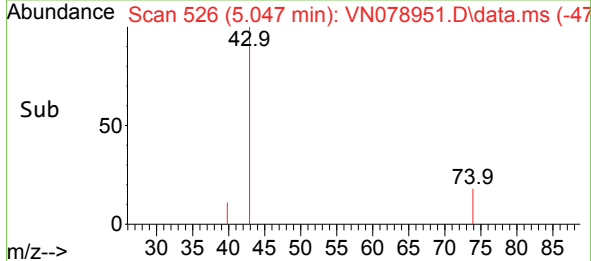
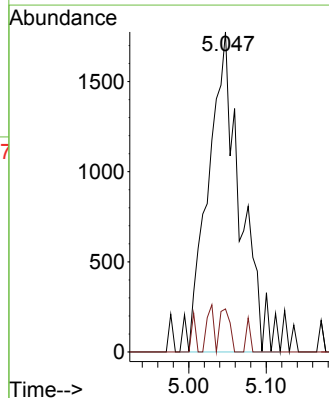
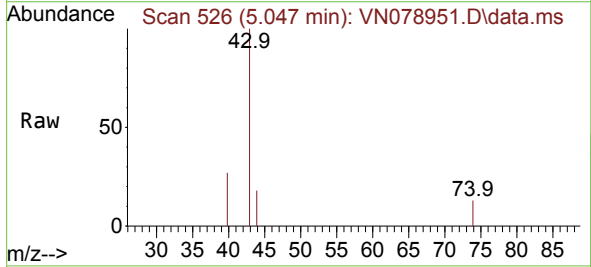
Instrument :
MSVOA_N
ClientSampleId :

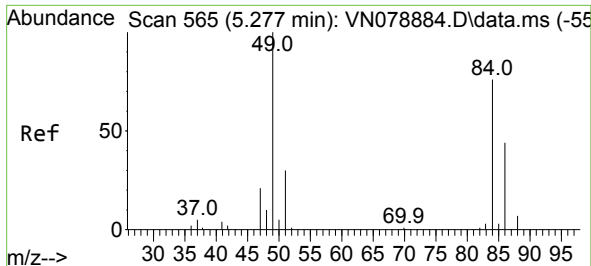
Tgt Ion: 43 Resp: 28036
Ion Ratio Lower Upper
43 100
58 29.0 28.0 42.0



#18
Methyl Acetate
Concen: 1.232 ug/l
RT: 5.047 min Scan# 526
Delta R.T. 0.005 min
Lab File: VN078951.D
Acq: 18 Aug 2023 18:48

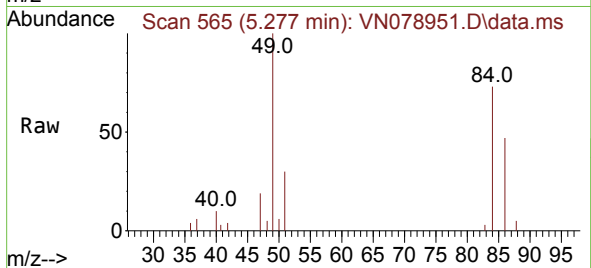
Tgt Ion: 43 Resp: 5145
Ion Ratio Lower Upper
43 100
74 4.3 26.2 39.4#



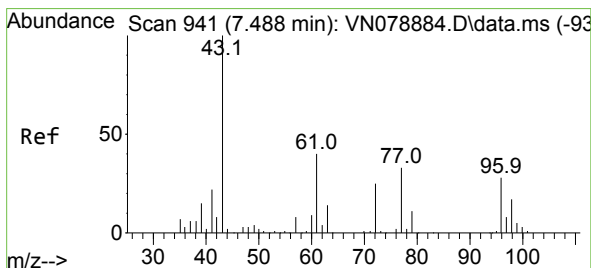
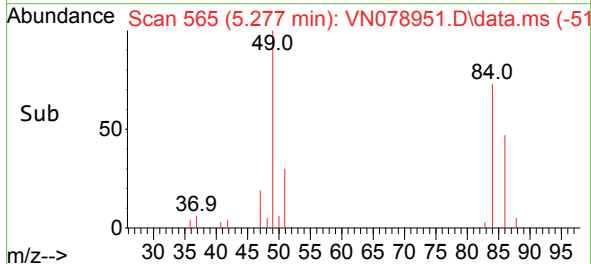
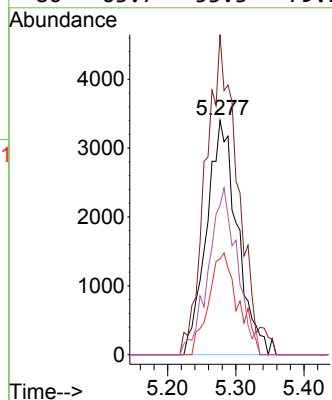


#20
Methylene Chloride
Concen: 5.100 ug/l
RT: 5.277 min Scan# 51
Delta R.T. -0.006 min
Lab File: VN078951.D
Acq: 18 Aug 2023 18:48

Instrument :
MSVOA_N
ClientSampleId :

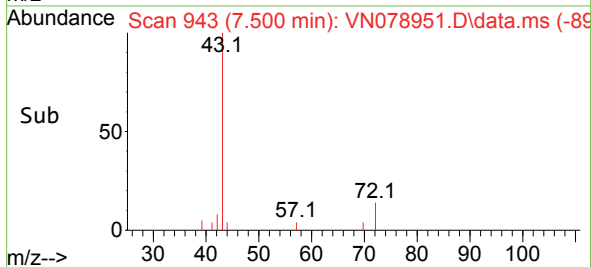
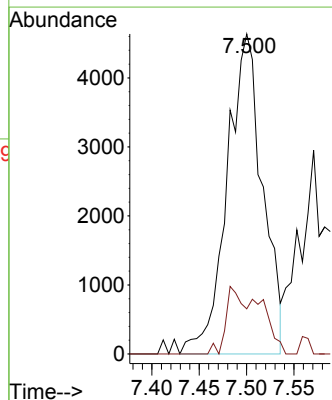
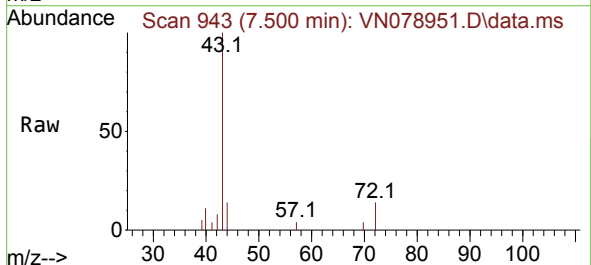


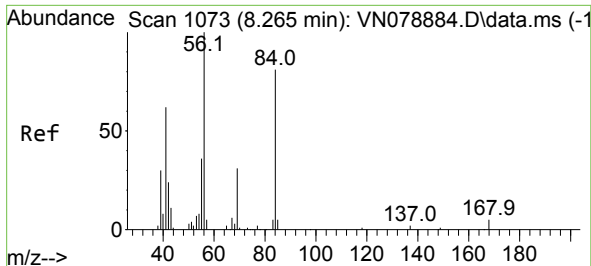
Tgt Ion:	84	Resp:	10741
Ion	Ratio	Lower	Upper
84	100		
49	136.6	79.7	119.5#
51	40.9	25.2	37.8#
86	63.7	53.3	79.9



#25
2-Butanone
Concen: 7.626 ug/l
RT: 7.500 min Scan# 943
Delta R.T. 0.006 min
Lab File: VN078951.D
Acq: 18 Aug 2023 18:48

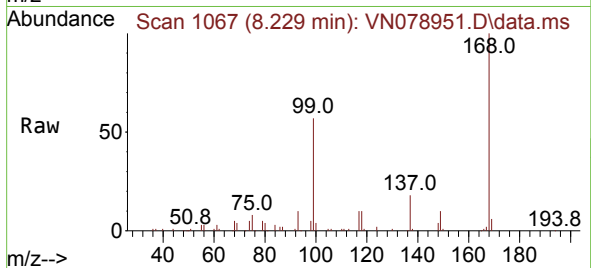
Tgt Ion:	43	Resp:	12082
Ion	Ratio	Lower	Upper
43	100		
72	14.1	30.2	45.2#



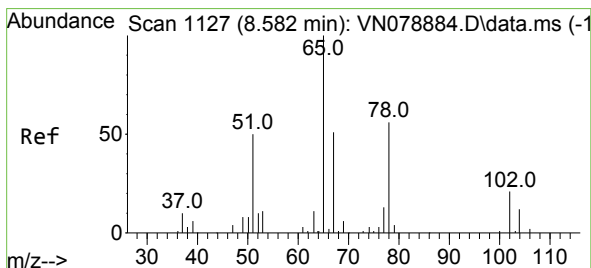
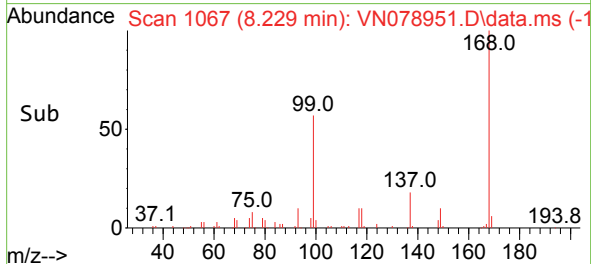
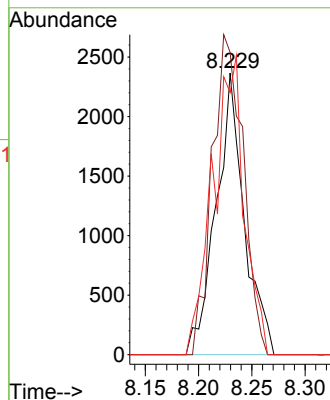


#31
Cyclohexane
Concen: Below Cal
RT: 8.229 min Scan# 1067
Delta R.T. -0.036 min
Lab File: VN078951.D
Acq: 18 Aug 2023 18:48

Instrument :
MSVOA_N
ClientSampleId :

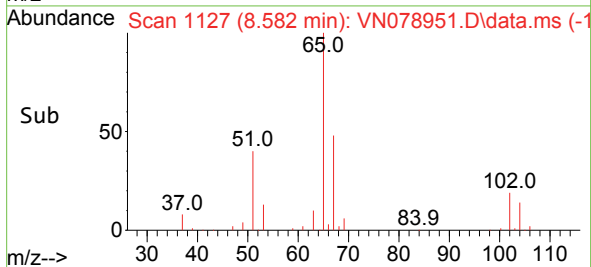
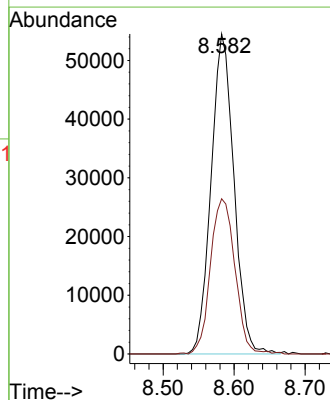
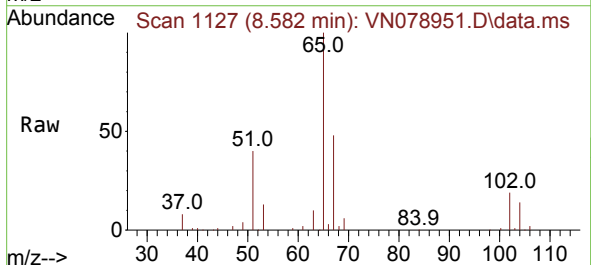


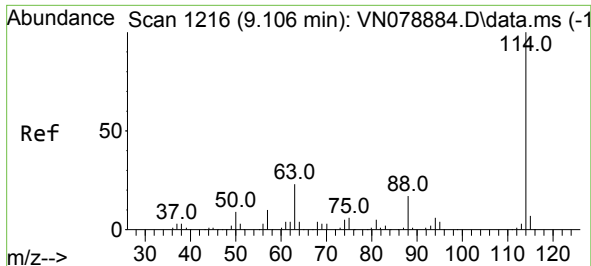
Tgt Ion: 56 Resp: 4339
Ion Ratio Lower Upper
56 100
69 107.3 26.8 40.2#
84 93.1 81.8 122.6



#33
1,2-Dichloroethane-d4
Concen: 50.887 ug/l
RT: 8.582 min Scan# 1127
Delta R.T. -0.001 min
Lab File: VN078951.D
Acq: 18 Aug 2023 18:48

Tgt Ion: 65 Resp: 121877
Ion Ratio Lower Upper
65 100
67 52.0 0.0 106.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 11

Delta R.T. -0.006 min

Lab File: VN078951.D

Acq: 18 Aug 2023 18:48

Instrument :

MSVOA_N

ClientSampleId :

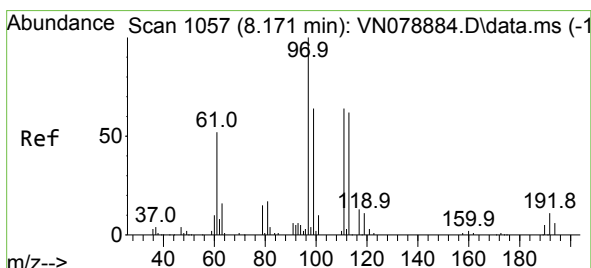
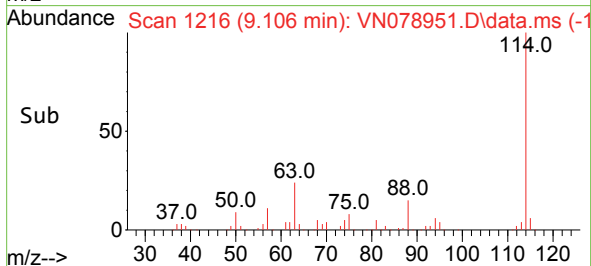
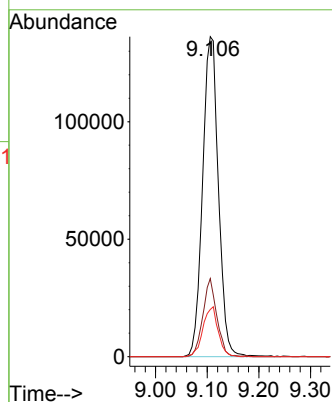
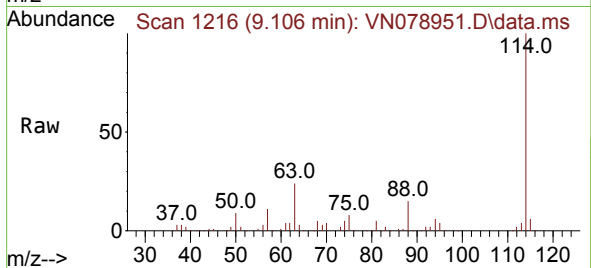
Tgt Ion:114 Resp: 289970

Ion Ratio Lower Upper

114 100

63 24.4 0.0 36.4

88 14.7 0.0 30.6



#35

Dibromofluoromethane

Concen: 52.330 ug/l

RT: 8.171 min Scan# 1057

Delta R.T. -0.000 min

Lab File: VN078951.D

Acq: 18 Aug 2023 18:48

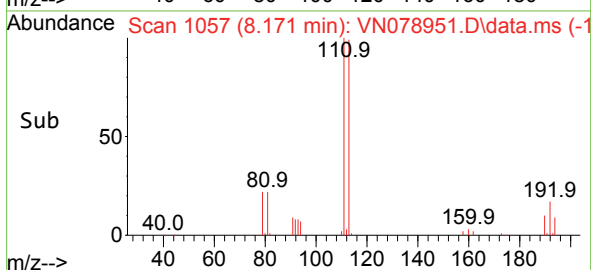
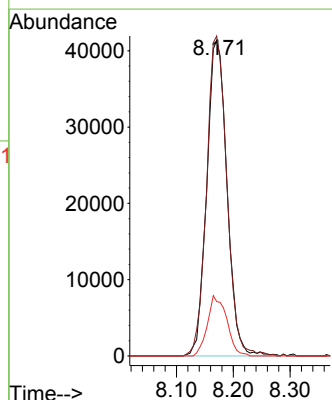
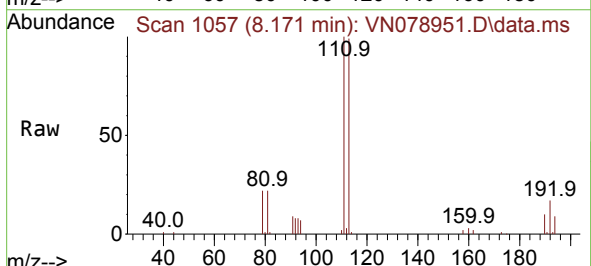
Tgt Ion:113 Resp: 102145

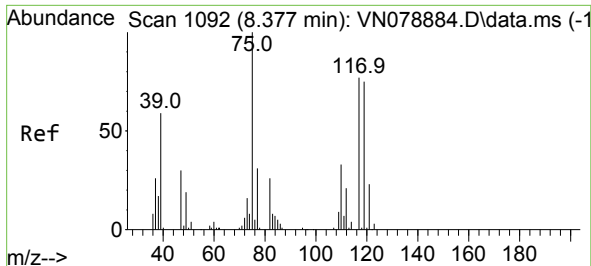
Ion Ratio Lower Upper

113 100

111 101.4 82.6 123.8

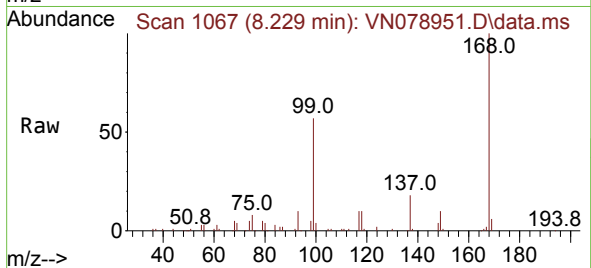
192 18.2 12.7 19.1



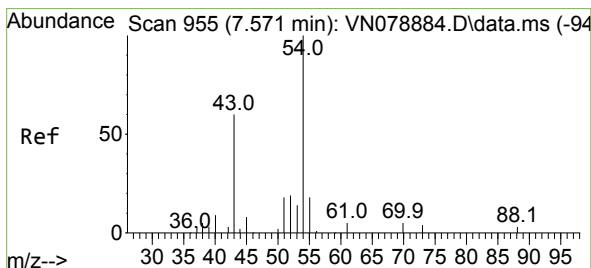
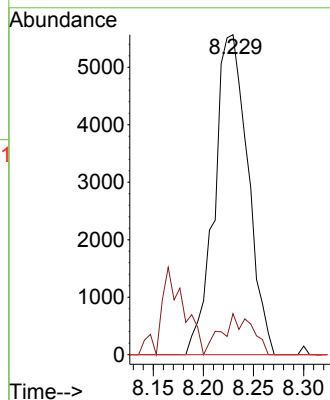
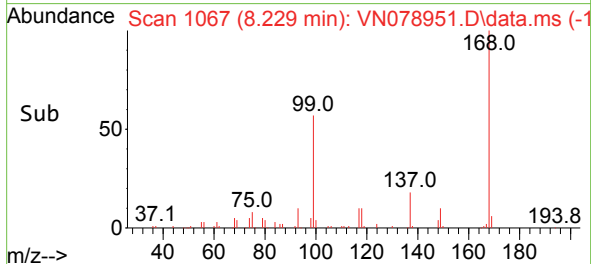


#36
 1,1-Dichloropropene
 Concen: 4.382 ug/l
 RT: 8.229 min Scan# 1067
 Delta R.T. -0.148 min
 Lab File: VN078951.D
 Acq: 18 Aug 2023 18:48

Instrument :
 MSVOA_N
 ClientSampleId :

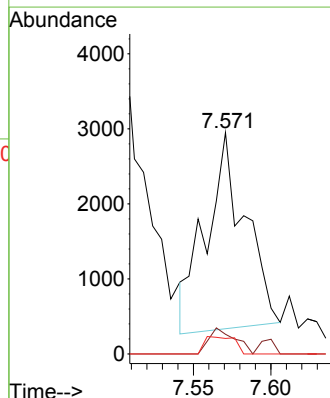
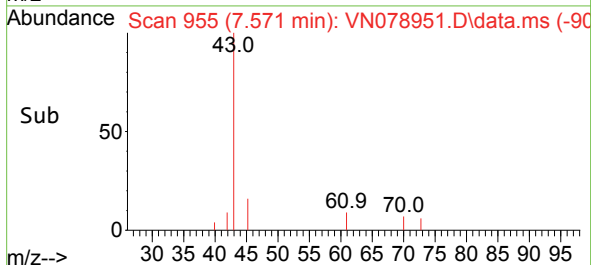
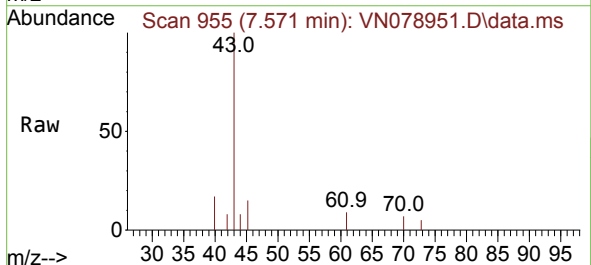


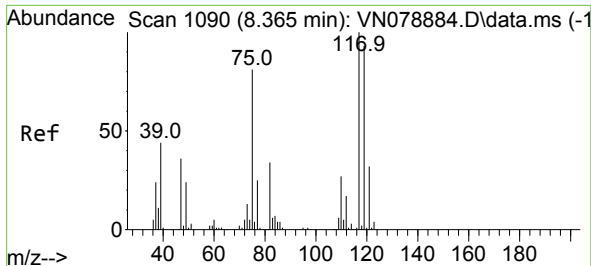
Tgt Ion: 75 Resp: 12867
 Ion Ratio Lower Upper
 75 100
 110 11.6 19.1 57.3#
 77 0.0 25.0 37.4#



#37
 Ethyl Acetate
 Concen: 1.384 ug/l
 RT: 7.571 min Scan# 955
 Delta R.T. -0.000 min
 Lab File: VN078951.D
 Acq: 18 Aug 2023 18:48

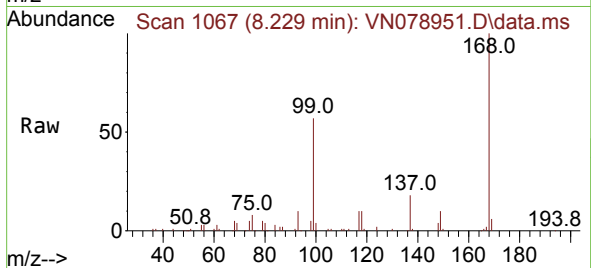
Tgt Ion: 43 Resp: 4548
 Ion Ratio Lower Upper
 43 100
 61 8.9 13.2 19.8#
 70 6.8 11.3 16.9#



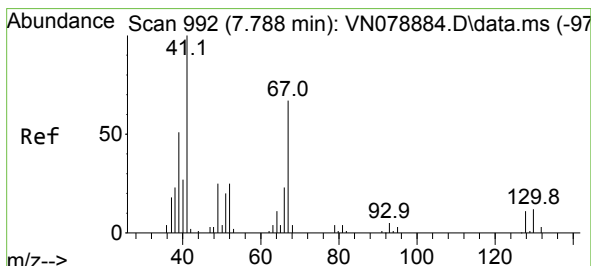
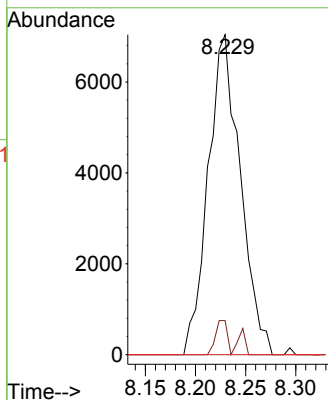
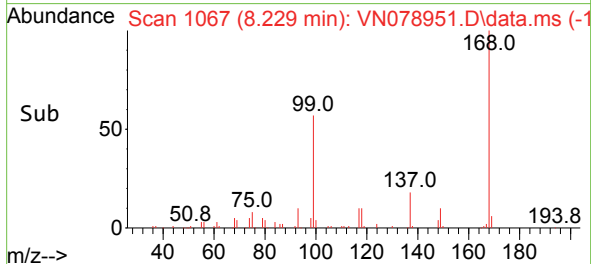


#38
Carbon Tetrachloride
Concen: 5.351 ug/l
RT: 8.229 min Scan# 1067
Delta R.T. -0.142 min
Lab File: VN078951.D
Acq: 18 Aug 2023 18:48

Instrument :
MSVOA_N
ClientSampleId :

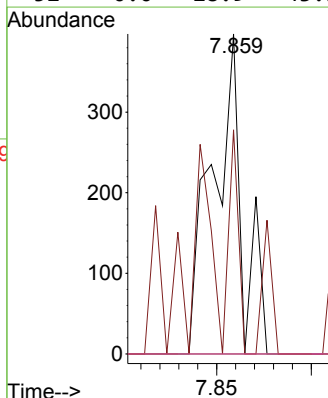
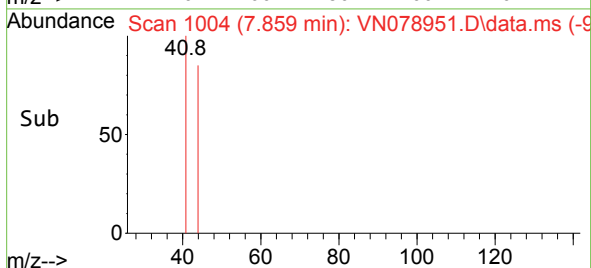
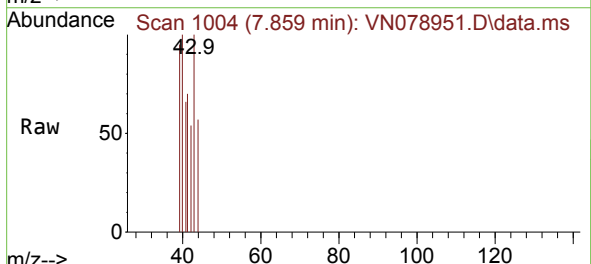


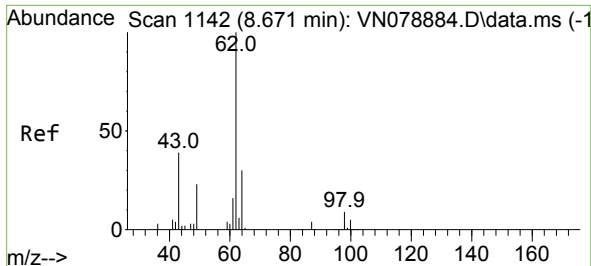
Tgt Ion:117 Resp: 15742
Ion Ratio Lower Upper
117 100
119 10.6 77.3 115.9#
121 0.0 23.3 34.9#



#41
Methacrylonitrile
Concen: 0.242 ug/l
RT: 7.859 min Scan# 1004
Delta R.T. 0.065 min
Lab File: VN078951.D
Acq: 18 Aug 2023 18:48

Tgt Ion: 41 Resp: 433
Ion Ratio Lower Upper
41 100
39 13.6 42.6 64.0#
67 0.0 77.5 116.3#
52 0.0 28.9 43.3#





#42

1,2-Dichloroethane

Concen: 0.246 ug/l

RT: 8.694 min Scan# 1146

Delta R.T. 0.017 min

Lab File: VN078951.D

Acq: 18 Aug 2023 18:48

Instrument :

MSVOA_N

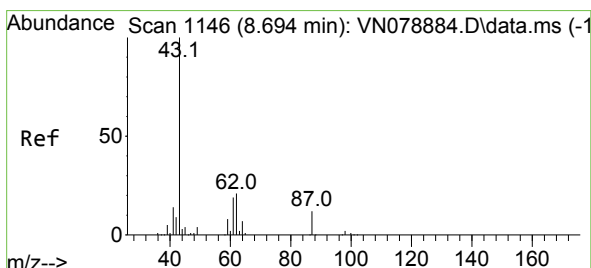
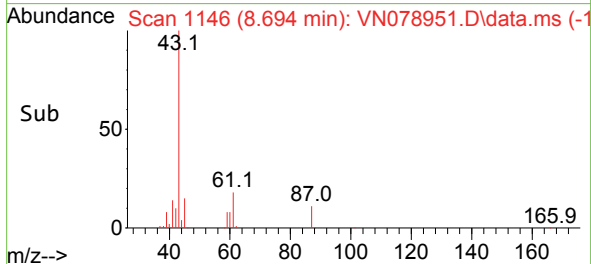
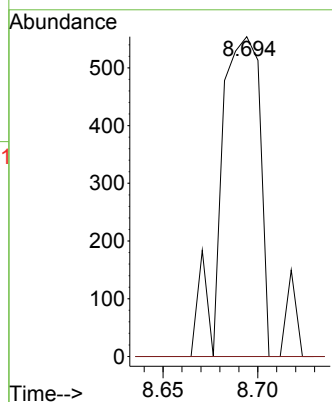
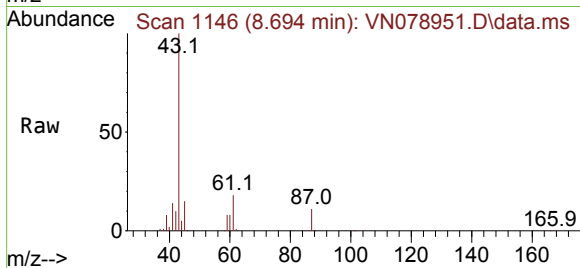
ClientSampleId :

Tgt Ion: 62 Resp: 797

Ion Ratio Lower Upper

62 100

98 0.0 0.0 19.8



#43

Isopropyl Acetate

Concen: 41.354 ug/l

RT: 8.694 min Scan# 1146

Delta R.T. 0.000 min

Lab File: VN078951.D

Acq: 18 Aug 2023 18:48

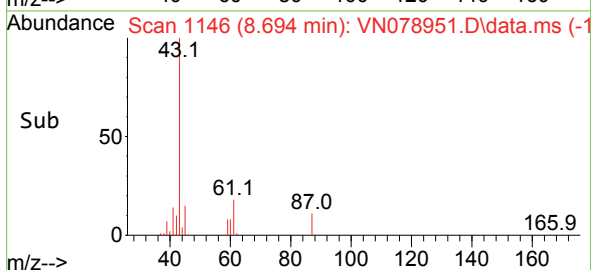
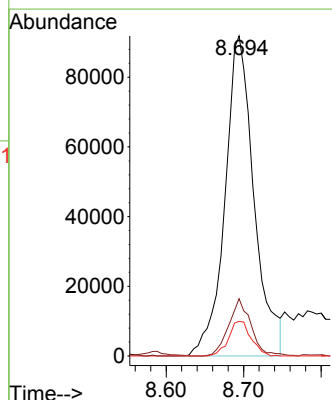
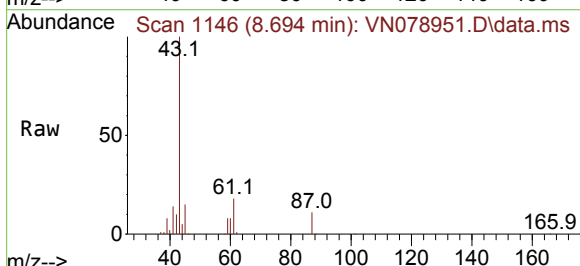
Tgt Ion: 43 Resp: 240125

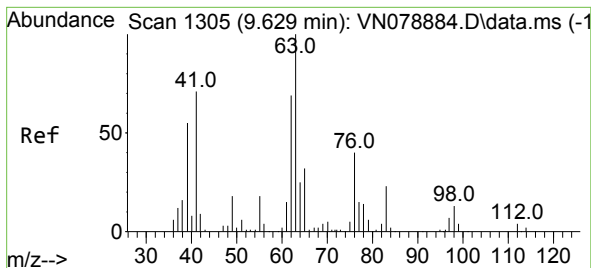
Ion Ratio Lower Upper

43 100

61 13.8 24.7 37.1#

87 8.4 14.6 21.8#





#45

1,2-Dichloropropane

Concen: 1.016 ug/l

RT: 9.747 min Scan# 11

Delta R.T. 0.123 min

Lab File: VN078951.D

Acq: 18 Aug 2023 18:48

Instrument :

MSVOA_N

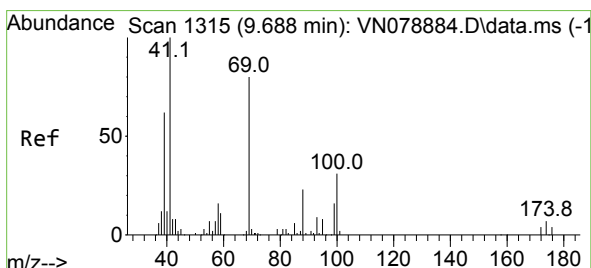
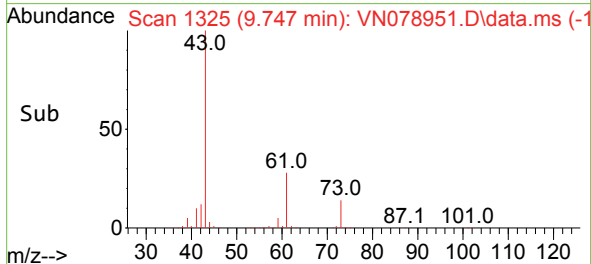
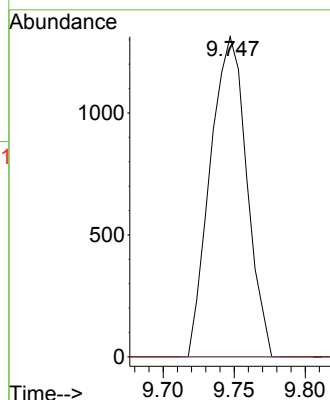
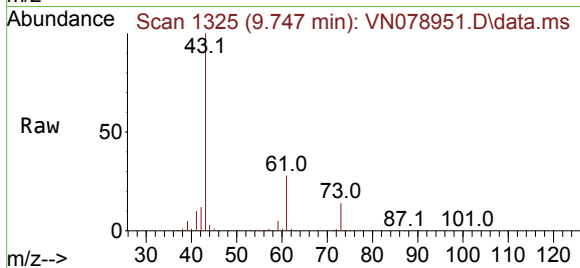
ClientSampleId :

Tgt Ion: 63 Resp: 2348

Ion Ratio Lower Upper

63 100

65 0.0 23.9 35.9#



#48

Methyl methacrylate

Concen: 2.120 ug/l

RT: 9.676 min Scan# 1313

Delta R.T. -0.012 min

Lab File: VN078951.D

Acq: 18 Aug 2023 18:48

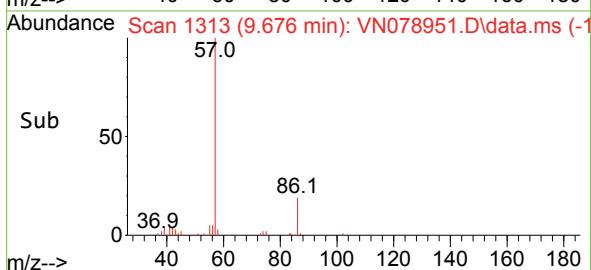
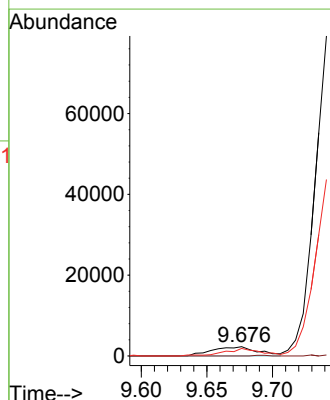
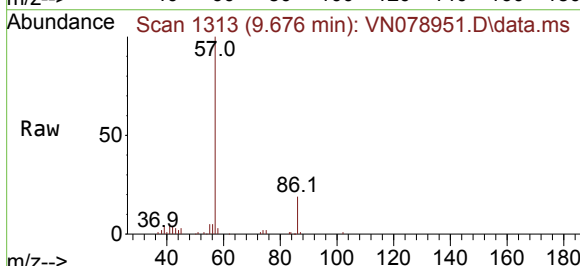
Tgt Ion: 41 Resp: 5577

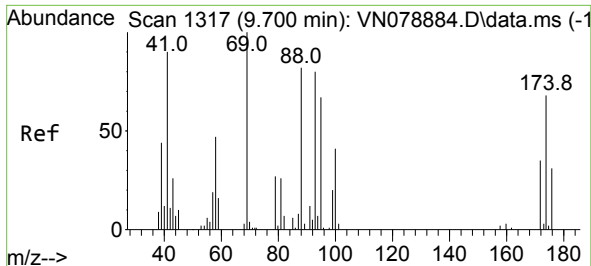
Ion Ratio Lower Upper

41 100

69 2.1 90.4 135.6#

39 65.5 54.6 81.8





#49

1,4-Dioxane

Concen: 1.272 ug/l

RT: 9.759 min Scan# 11

Delta R.T. 0.059 min

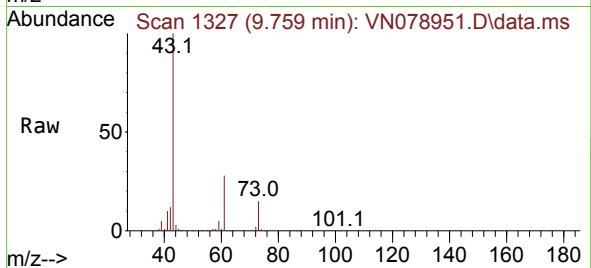
Lab File: VN078951.D

Acq: 18 Aug 2023 18:48

Instrument :

MSVOA_N

ClientSampleId :



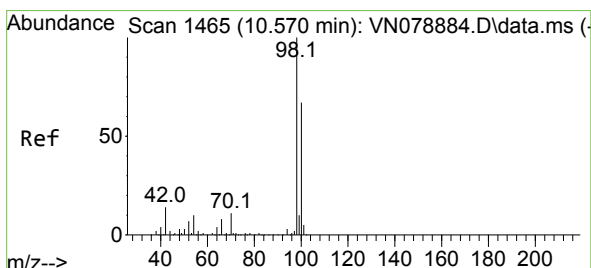
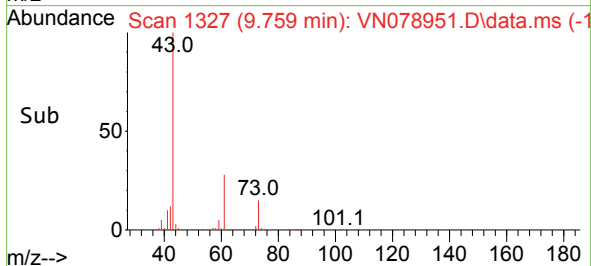
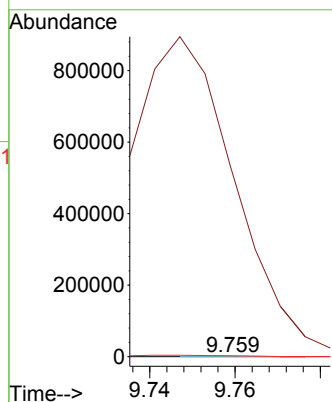
Tgt Ion: 88 Resp: 57

Ion Ratio Lower Upper

88 100

43 2855129.8 17.0 25.6#

58 14175.4 47.0 70.4#



#50

Toluene-d8

Concen: 52.420 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. -0.000 min

Lab File: VN078951.D

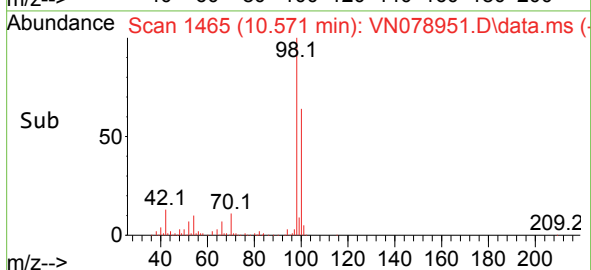
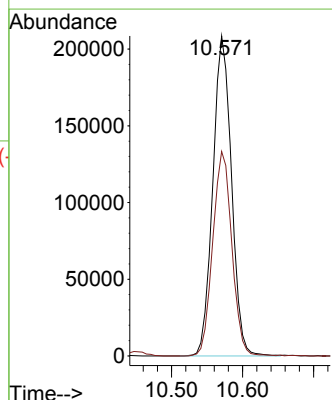
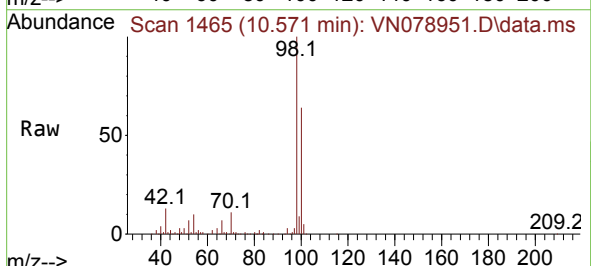
Acq: 18 Aug 2023 18:48

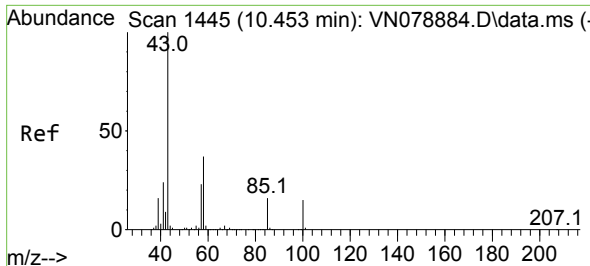
Tgt Ion: 98 Resp: 379926

Ion Ratio Lower Upper

98 100

100 65.3 52.0 78.0

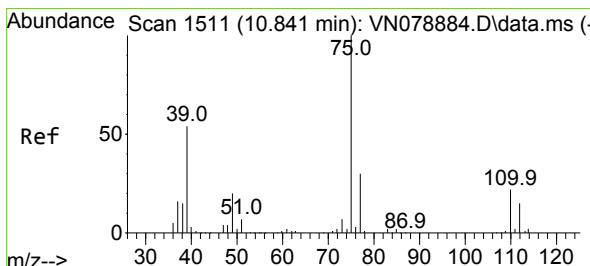
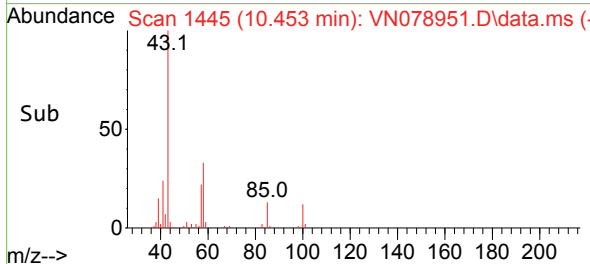
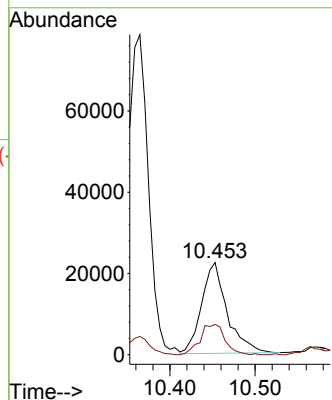
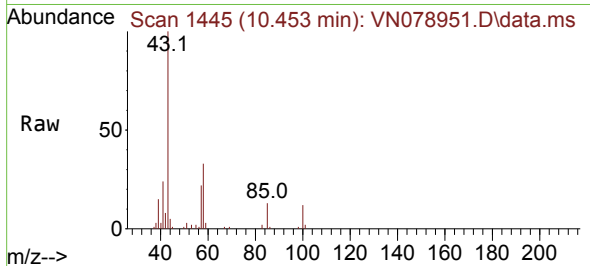




#51
4-Methyl-2-Pentanone
Concen: 13.554 ug/l
RT: 10.453 min Scan# 1445
Delta R.T. -0.000 min
Lab File: VN078951.D
Acq: 18 Aug 2023 18:48

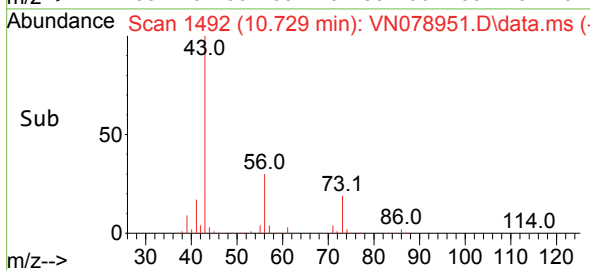
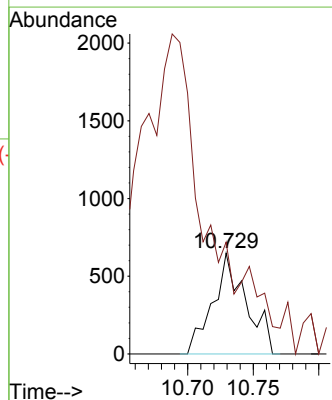
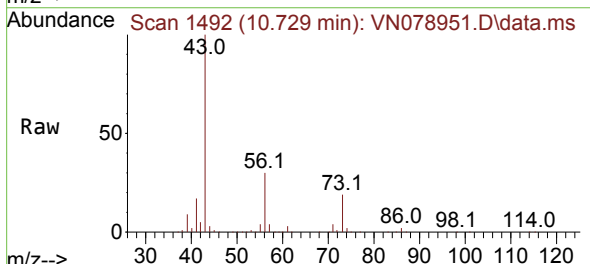
Instrument :
MSVOA_N
ClientSampleId :

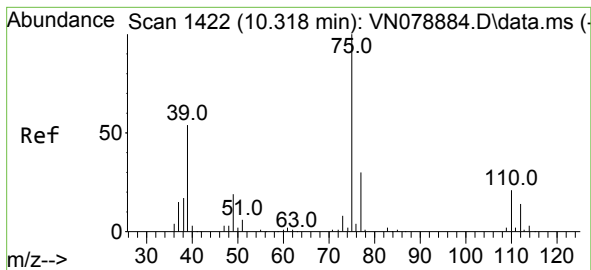
Tgt Ion: 43 Resp: 46680
Ion Ratio Lower Upper
43 100
58 32.3 36.6 54.8#



#53
t-1,3-Dichloropropene
Concen: 0.338 ug/l
RT: 10.729 min Scan# 1492
Delta R.T. -0.112 min
Lab File: VN078951.D
Acq: 18 Aug 2023 18:48

Tgt Ion: 75 Resp: 1135
Ion Ratio Lower Upper
75 100
77 85.5 25.4 38.0#

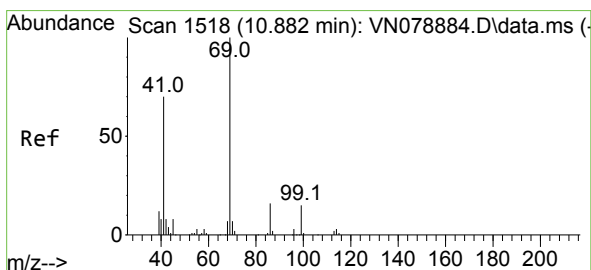
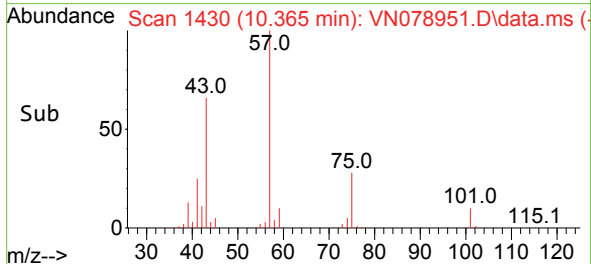
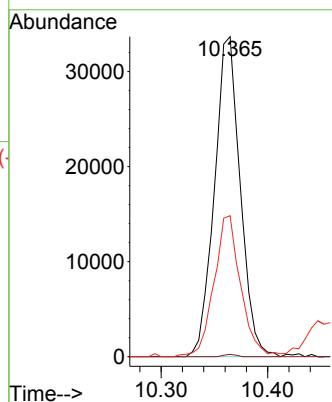
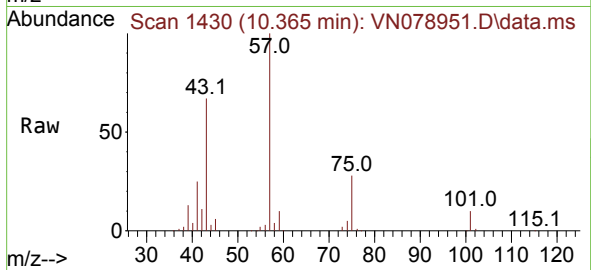




#54
 cis-1,3-Dichloropropene
 Concen: 15.471 ug/l
 RT: 10.365 min Scan# 1422
 Delta R.T. 0.047 min
 Lab File: VN078951.D
 Acq: 18 Aug 2023 18:48

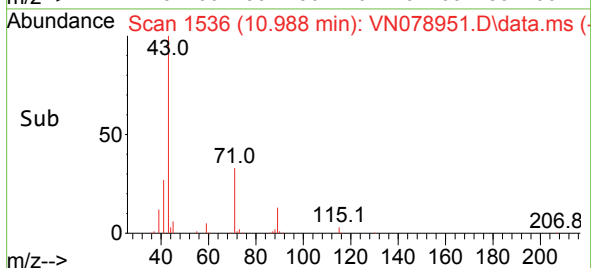
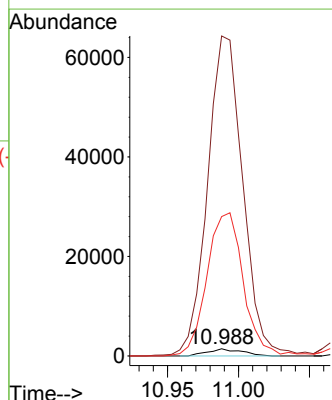
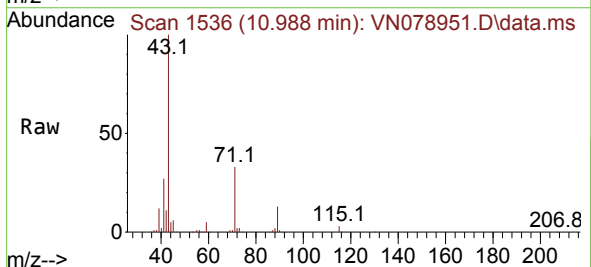
Instrument :
 MSVOA_N
 ClientSampleId :

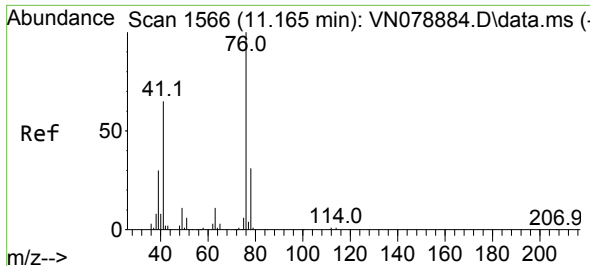
Tgt Ion: 75 Resp: 56548
 Ion Ratio Lower Upper
 75 100
 77 0.7 26.1 39.1#
 39 43.4 31.6 47.4



#56
 Ethyl methacrylate
 Concen: 0.729 ug/l
 RT: 10.988 min Scan# 1536
 Delta R.T. 0.111 min
 Lab File: VN078951.D
 Acq: 18 Aug 2023 18:48

Tgt Ion: 69 Resp: 2414
 Ion Ratio Lower Upper
 69 100
 41 4608.5 39.6 59.4#
 39 2136.3 28.6 43.0#





#57

1,3-Dichloropropane

Concen: 1.965 ug/l

RT: 11.212 min Scan# 11

Delta R.T. 0.047 min

Lab File: VN078951.D

Acq: 18 Aug 2023 18:48

Instrument :

MSVOA_N

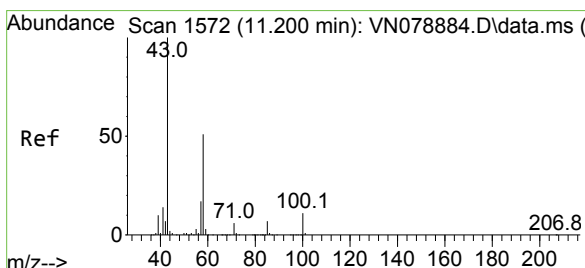
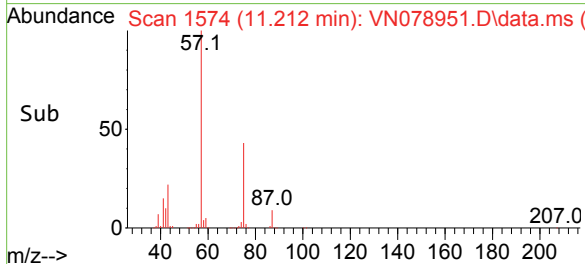
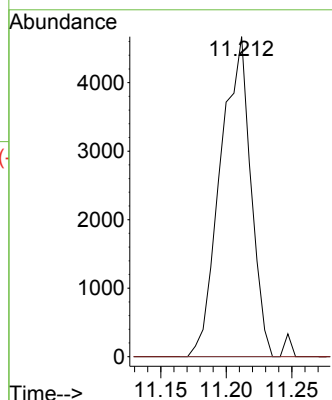
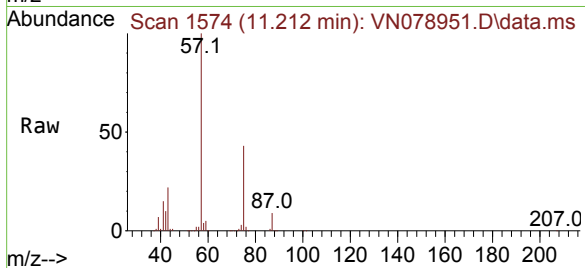
ClientSampleId :

Tgt Ion: 76 Resp: 7509

Ion Ratio Lower Upper

76 100

78 0.0 26.1 39.1#



#59

2-Hexanone

Concen: 59.179 ug/l

RT: 11.176 min Scan# 1568

Delta R.T. -0.024 min

Lab File: VN078951.D

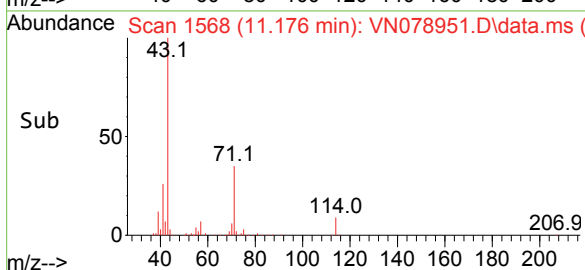
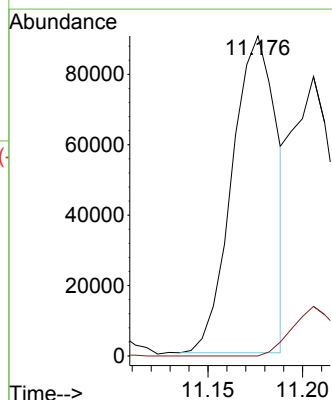
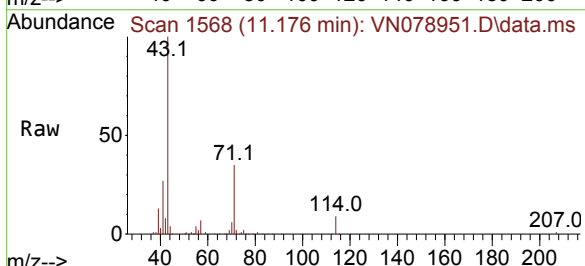
Acq: 18 Aug 2023 18:48

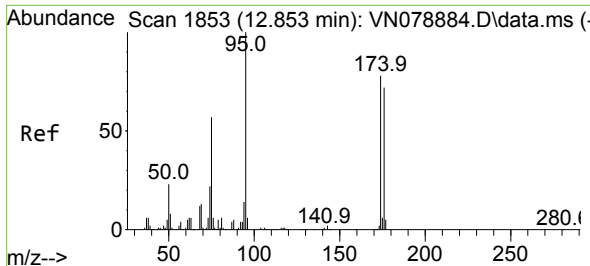
Tgt Ion: 43 Resp: 147615

Ion Ratio Lower Upper

43 100

58 0.0 31.7 95.1#

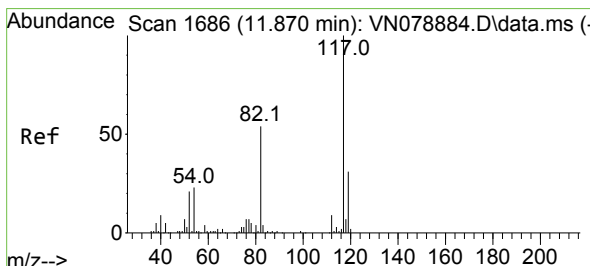
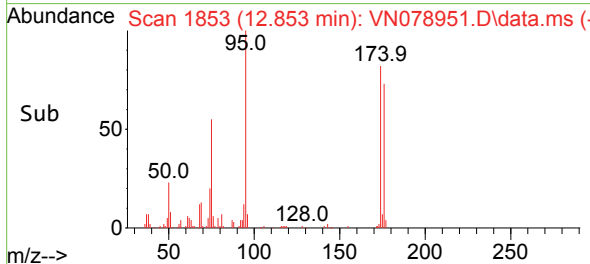
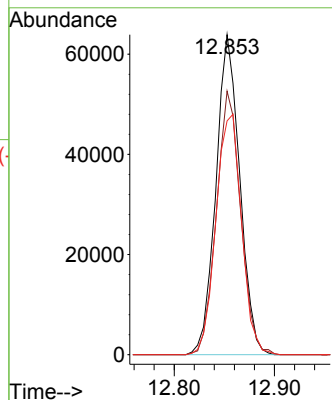
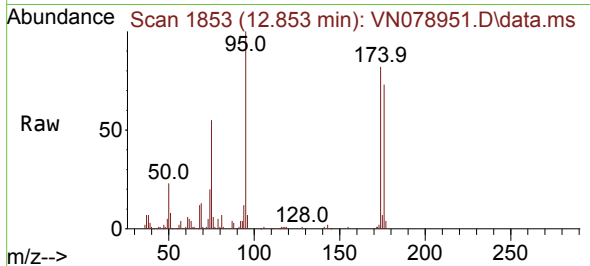




#62
4-Bromofluorobenzene
Concen: 44.572 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.000 min
Lab File: VN078951.D
Acq: 18 Aug 2023 18:48

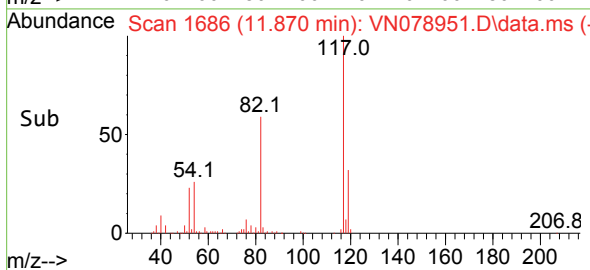
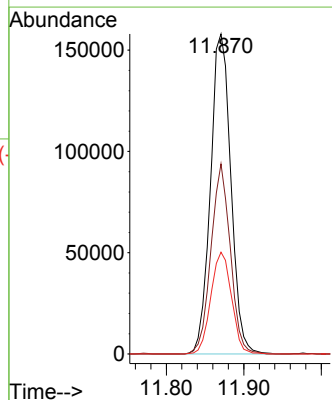
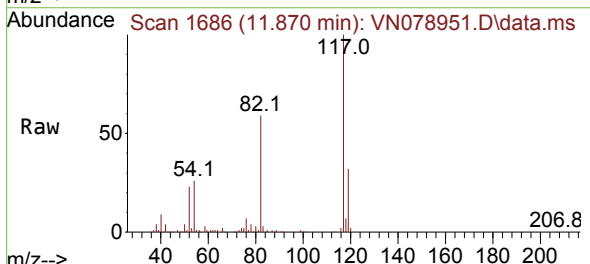
Instrument :
MSVOA_N
ClientSampleId :

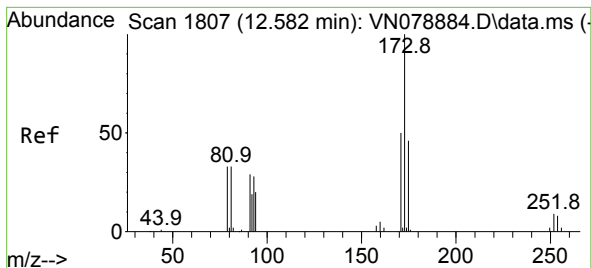
Tgt Ion: 95 Resp: 105589
Ion Ratio Lower Upper
95 100
174 83.6 0.0 143.8
176 81.0 0.0 135.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.870 min Scan# 1686
Delta R.T. -0.001 min
Lab File: VN078951.D
Acq: 18 Aug 2023 18:48

Tgt Ion: 117 Resp: 288675
Ion Ratio Lower Upper
117 100
82 59.4 44.0 66.0
119 31.8 25.6 38.4





#71

Bromoform

Concen: 0.754 ug/l

RT: 12.853 min Scan# 11

Delta R.T. 0.271 min

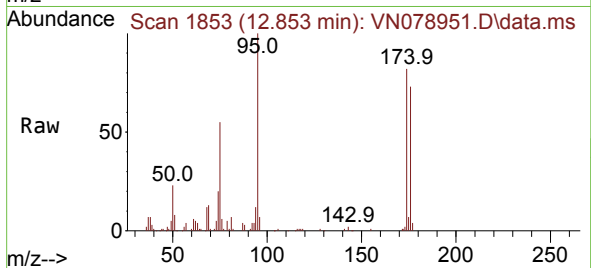
Lab File: VN078951.D

Acq: 18 Aug 2023 18:48

Instrument :

MSVOA_N

ClientSampleId :



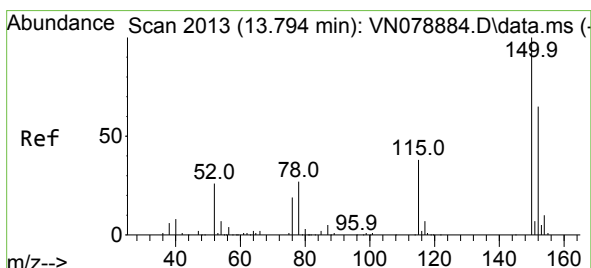
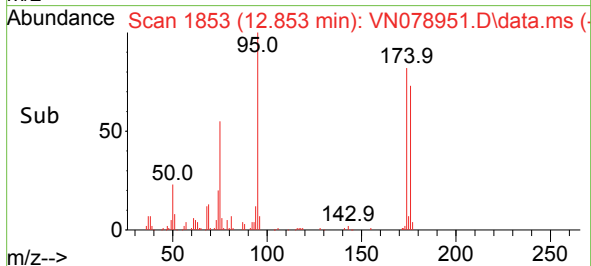
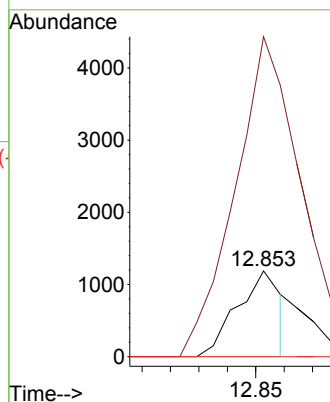
Tgt Ion:173 Resp: 1273

Ion Ratio Lower Upper

173 100

175 409.5 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: VN078951.D

Acq: 18 Aug 2023 18:48

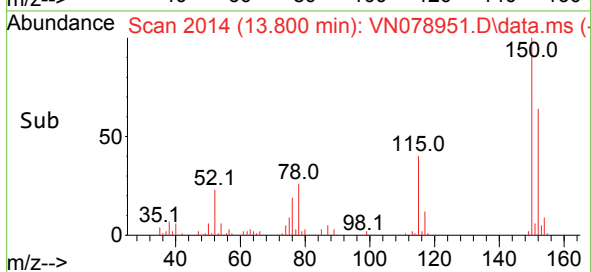
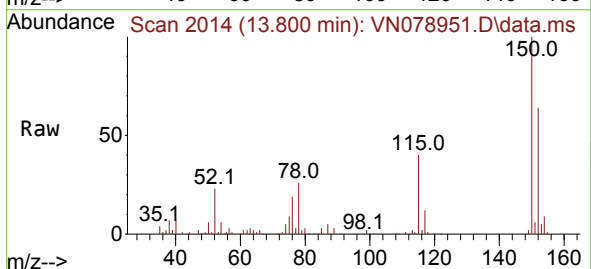
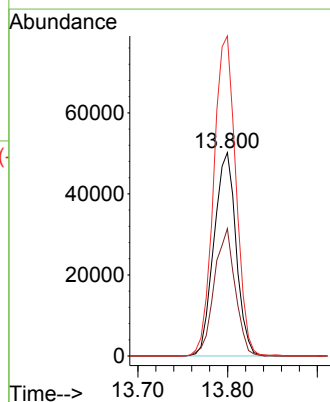
Tgt Ion:152 Resp: 85882

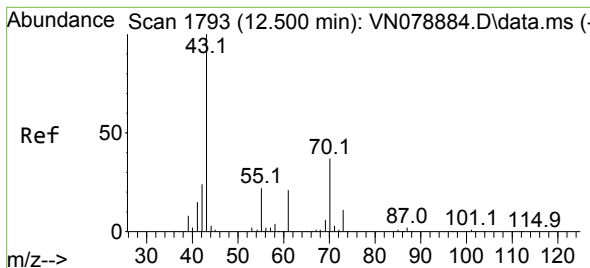
Ion Ratio Lower Upper

152 100

115 59.5 32.3 96.8

150 157.9 0.0 355.8





#74

N-amy1 acetate

Concen: 0.448 ug/l

RT: 12.494 min Scan# 1

Delta R.T. -0.006 min

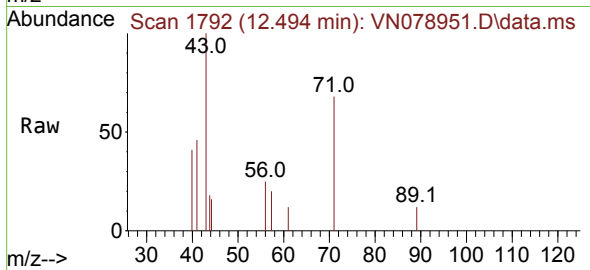
Lab File: VN078951.D

Acq: 18 Aug 2023 18:48

Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion: 43 Resp: 1621

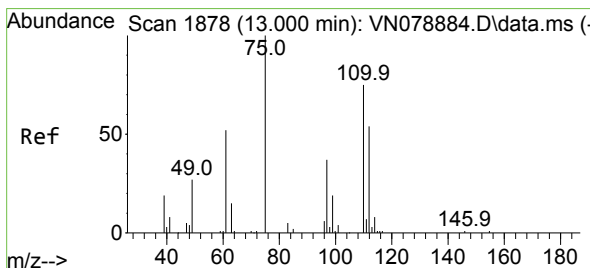
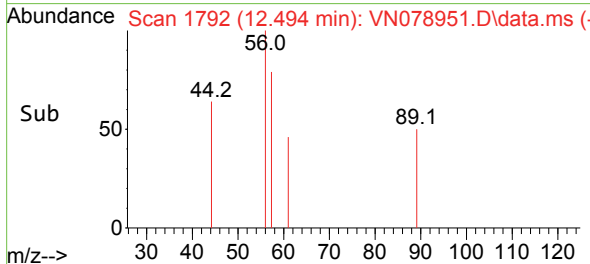
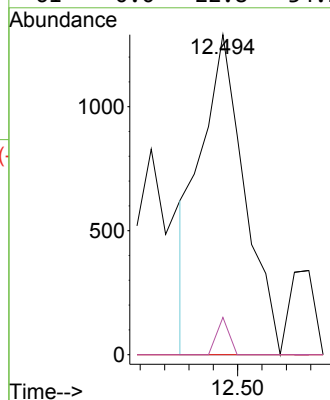
Ion Ratio Lower Upper

43 100

70 0.0 43.4 65.2#

55 0.0 21.4 32.0#

61 0.0 22.8 34.2#



#76

1,2,3-Trichloropropane

Concen: 29.659 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. -0.147 min

Lab File: VN078951.D

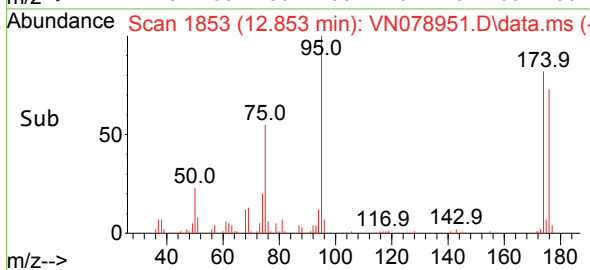
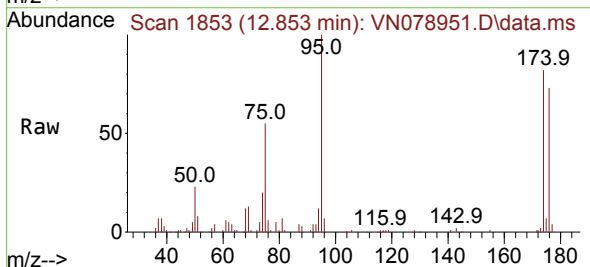
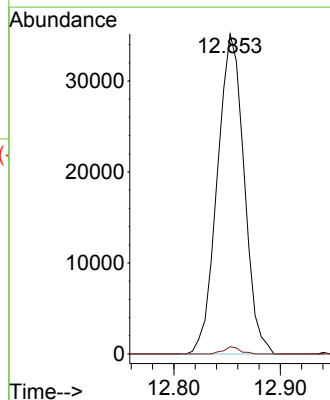
Acq: 18 Aug 2023 18:48

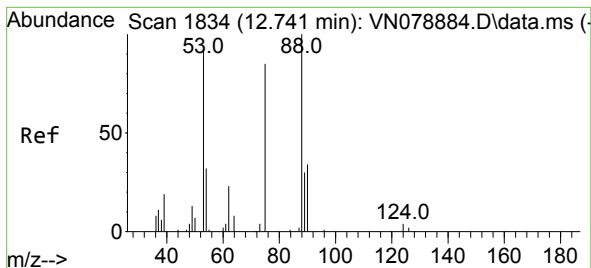
Tgt Ion: 75 Resp: 61375

Ion Ratio Lower Upper

75 100

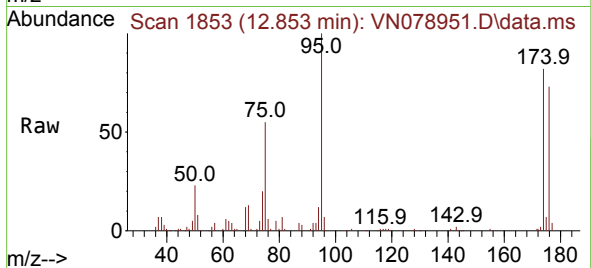
77 1.4 84.5 253.5#



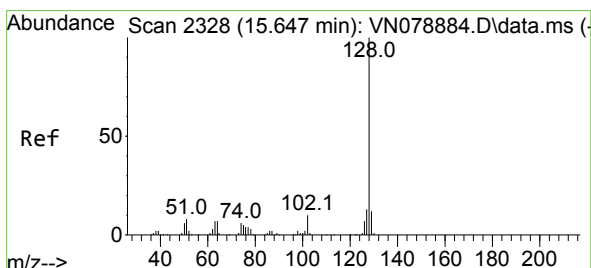
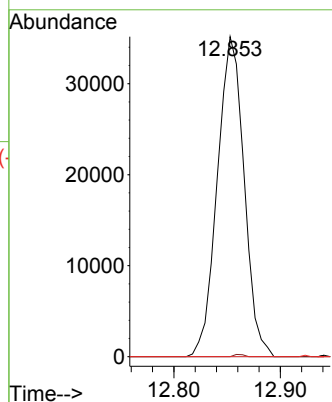
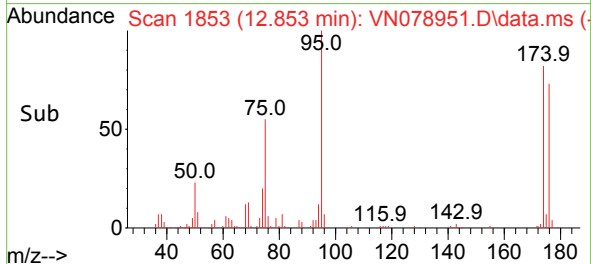


#81
trans-1,4-Dichloro-2-butene
Concen: 75.767 ug/l
RT: 12.853 min Scan# 1834
Delta R.T. 0.112 min
Lab File: VN078951.D
Acq: 18 Aug 2023 18:48

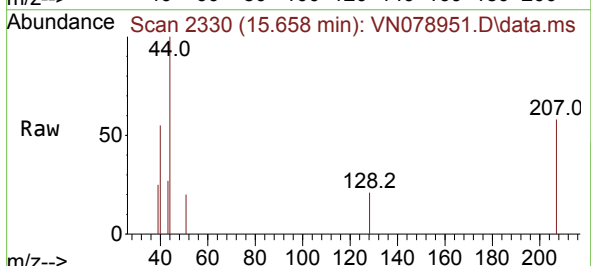
Instrument :
MSVOA_N
ClientSampleId :



Tgt Ion: 75 Resp: 61375
Ion Ratio Lower Upper
75 100
53 0.3 67.4 101.2#
89 0.0 38.8 58.2#



#95
Naphthalene
Concen: 2.588 ug/l
RT: 15.658 min Scan# 2330
Delta R.T. 0.011 min
Lab File: VN078951.D
Acq: 18 Aug 2023 18:48



Tgt Ion: 128 Resp: 56
Ion Ratio Lower Upper
128 100
127 0.0 10.0 15.0#
129 0.0 8.7 13.1#

