

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN062123\
 Data File : VN078330.D
 Acq On : 21 Jun 2023 18:23
 Operator : JC\MD
 Sample : 03336-17
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jun 22 04:53:27 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060623W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 07 05:05:00 2023
 Response via : Initial Calibration

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

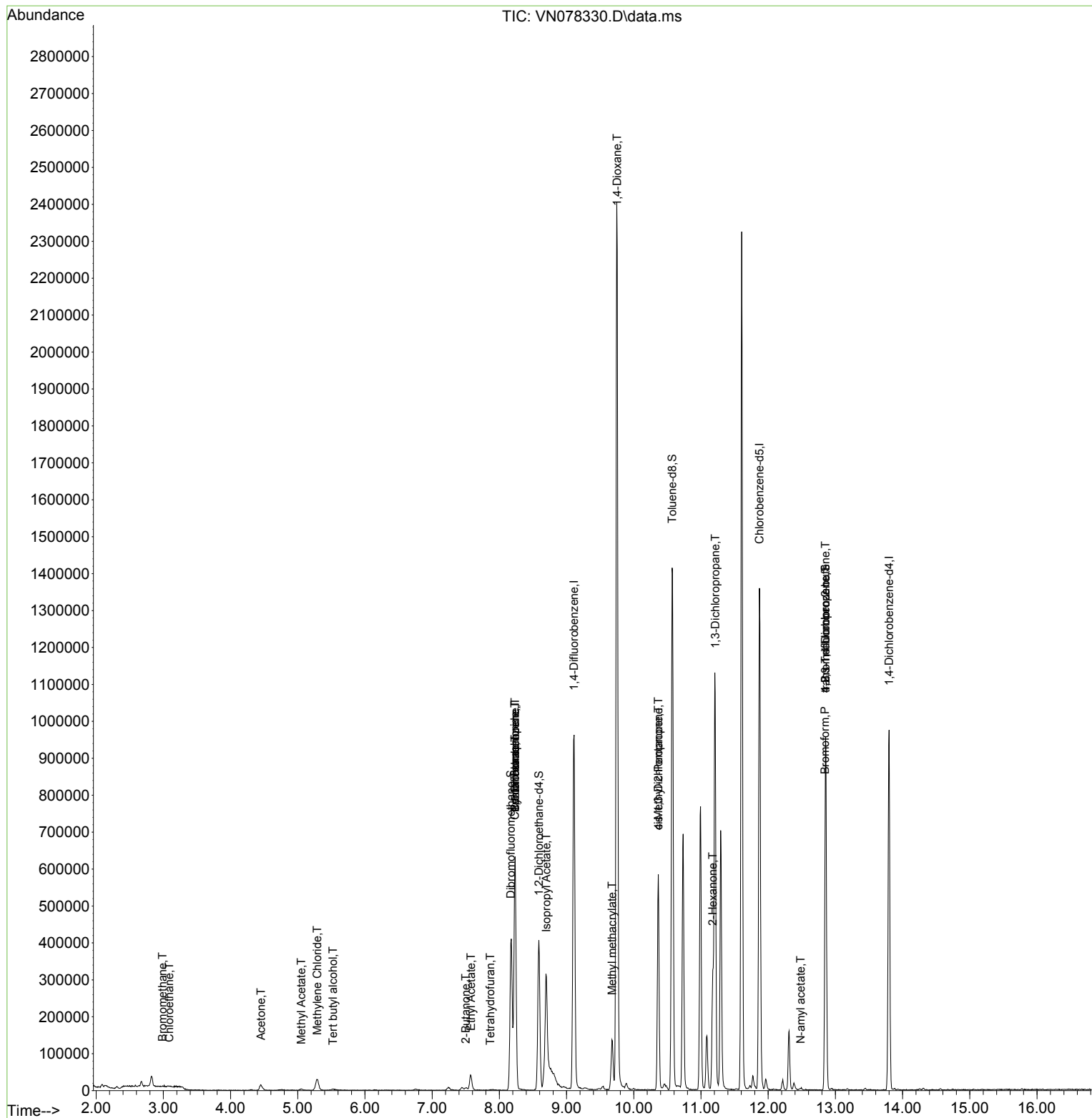
Internal Standards						
1) Pentafluorobenzene	8.235	168	448594	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.112	114	872487	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.870	117	810550	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	268052	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	329174	55.035	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 110.080%			
35) Dibromofluoromethane	8.171	113	299510	54.292	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 108.580%			
50) Toluene-d8	10.570	98	1043984	49.089	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 98.180%			
62) 4-Bromofluorobenzene	12.853	95	343040	51.886	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 103.780%			
Target Compounds						Qvalue
3) Chloromethane	2.377	50	980	Below Cal	#	83
5) Bromomethane	2.989	94	1161	0.231	ug/l #	57
6) Chloroethane	3.089	64	1550	0.342	ug/l #	43
11) Tert butyl alcohol	5.524	59	2756	3.337	ug/l #	72
16) Acetone	4.453	43	27922	16.219	ug/l #	84
18) Methyl Acetate	5.053	43	5301	0.669	ug/l #	42
20) Methylene Chloride	5.288	84	24261	4.264	ug/l	92
25) 2-Butanone	7.500	43	10691	4.038	ug/l #	80
29) Tetrahydrofuran	7.865	42	700	0.396	ug/l #	34
31) Cyclohexane	8.235	56	10477	1.366	ug/l #	28
36) 1,1-Dichloropropene	8.235	75	37994	4.802	ug/l #	43
37) Ethyl Acetate	7.577	43	60679	9.816	ug/l #	96
38) Carbon Tetrachloride	8.229	117	49695	5.948	ug/l #	15
43) Isopropyl Acetate	8.700	43	439632	37.188	ug/l #	73
48) Methyl methacrylate	9.676	41	8045	1.622	ug/l #	31
49) 1,4-Dioxane	9.753	88	137	1.314	ug/l #	1
51) 4-Methyl-2-Pentanone	10.365	43	204320	32.821	ug/l #	41
54) cis-1,3-Dichloropropene	10.365	75	106220	11.474	ug/l #	68
57) 1,3-Dichloropropane	11.212	76	11771	1.236	ug/l #	43
59) 2-Hexanone	11.176	43	239797	55.321	ug/l #	19
71) Bromoform	12.847	173	3125	0.758	ug/l #	1
74) N-amyl acetate	12.482	43	1896	0.227	ug/l #	53
75) 1,1,2,2-Tetrachloroethane	12.976	83	54	Below Cal	#	26
76) 1,2,3-Trichloropropane	12.853	75	180969	28.558	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	180969	87.740	ug/l #	15

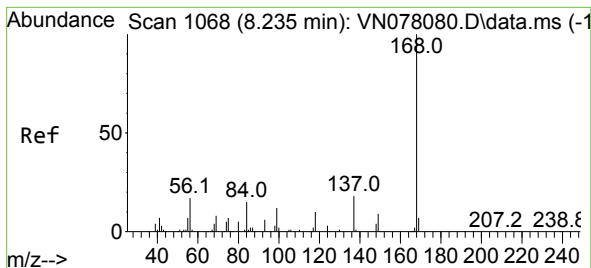
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060623W.M
Quant Title : SW846 8260
QLast Update : Wed Jun 07 05:05:00 2023
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.235 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN078330.D

Acq: 21 Jun 2023 18:23

Instrument :

MSVOA_N

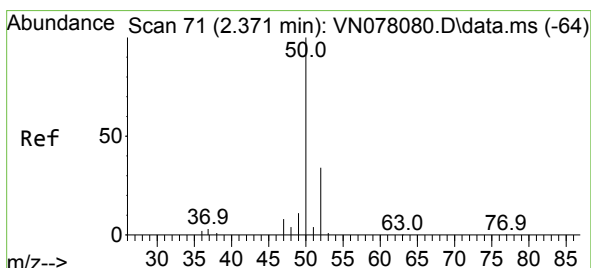
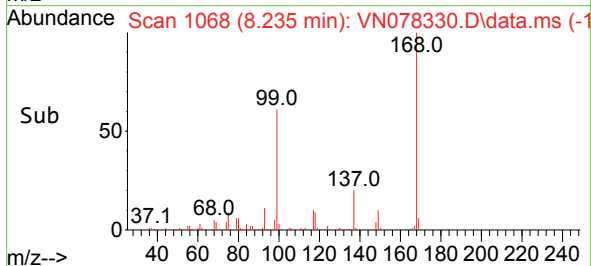
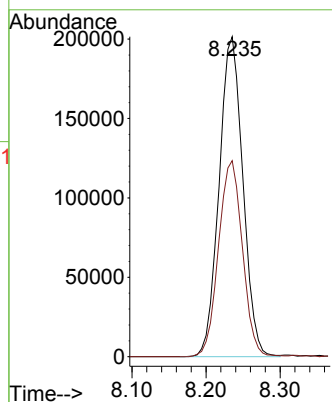
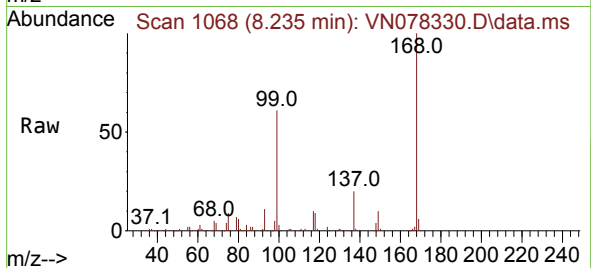
ClientSampleId :

Tgt Ion:168 Resp: 448594

Ion Ratio Lower Upper

168 100

99 61.3 53.0 79.6



#3

Chloromethane

Concen: Below Cal

RT: 2.377 min Scan# 72

Delta R.T. 0.006 min

Lab File: VN078330.D

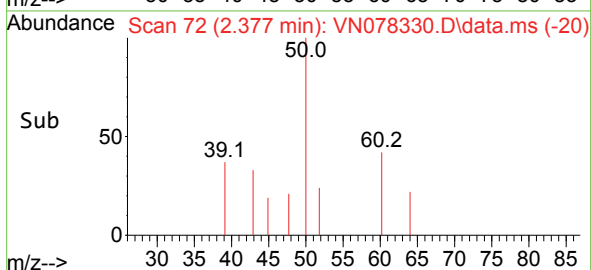
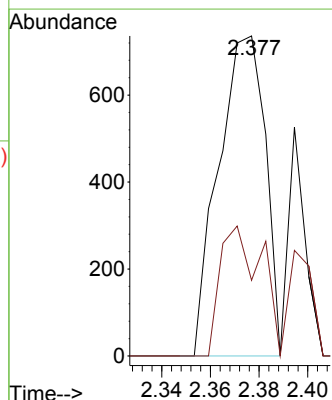
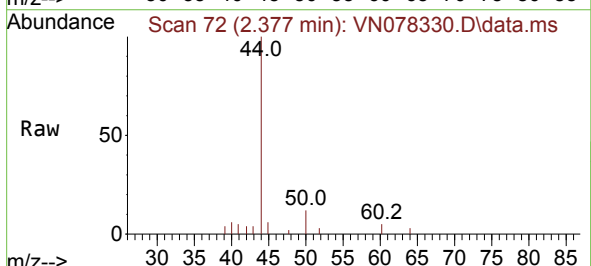
Acq: 21 Jun 2023 18:23

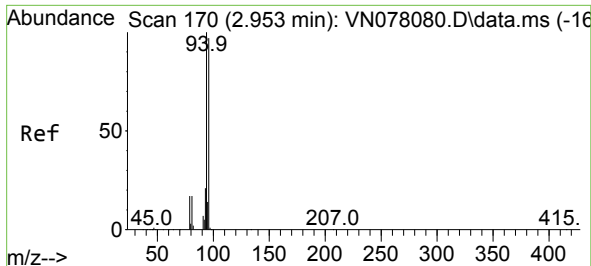
Tgt Ion: 50 Resp: 980

Ion Ratio Lower Upper

50 100

52 23.6 26.5 39.7#

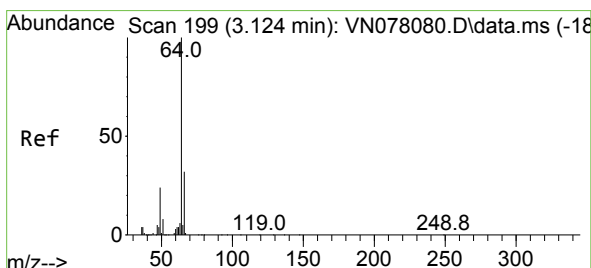
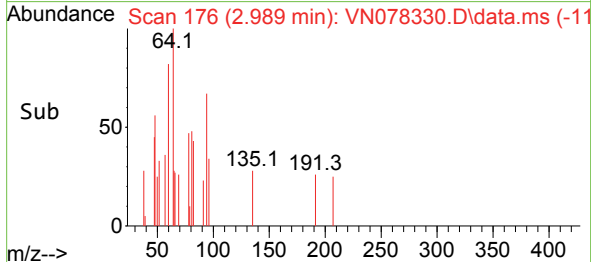
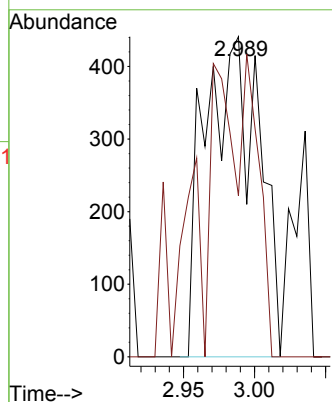
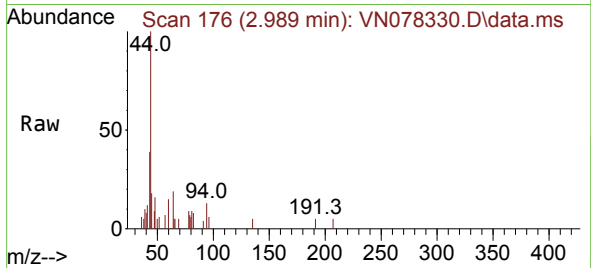




#5
Bromomethane
Concen: 0.231 ug/l
RT: 2.989 min Scan# 11
Delta R.T. 0.035 min
Lab File: VN078330.D
Acq: 21 Jun 2023 18:23

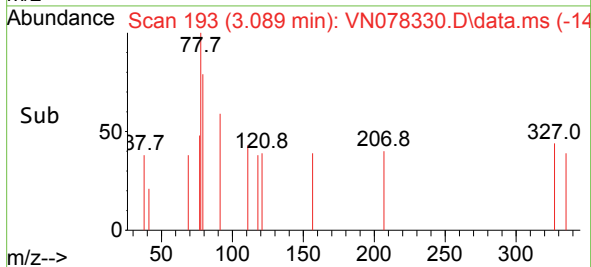
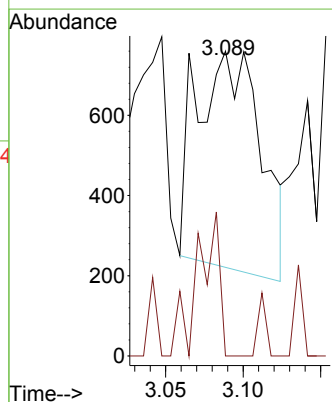
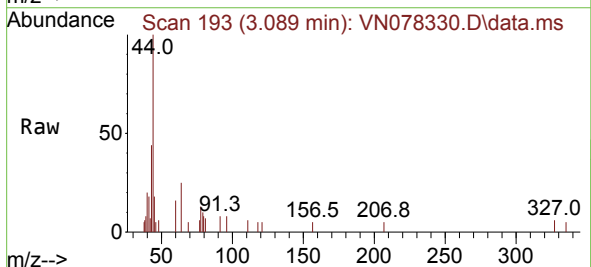
Instrument :
MSVOA_N
ClientSampleId :

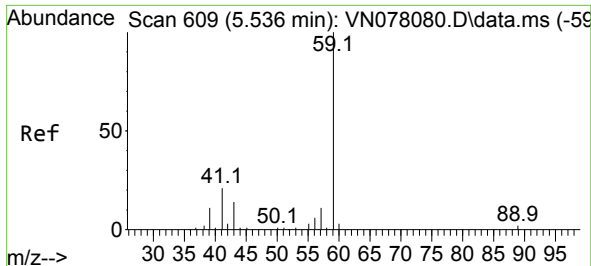
Tgt Ion: 94 Resp: 1161
Ion Ratio Lower Upper
94 100
96 50.3 73.1 109.7#



#6
Chloroethane
Concen: 0.342 ug/l
RT: 3.089 min Scan# 193
Delta R.T. -0.035 min
Lab File: VN078330.D
Acq: 21 Jun 2023 18:23

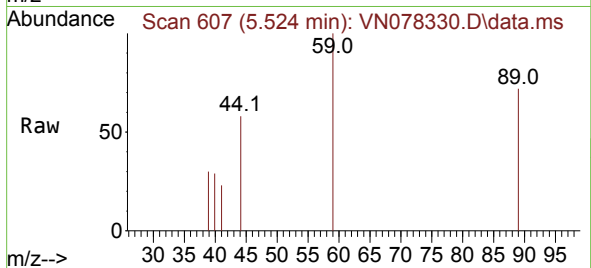
Tgt Ion: 64 Resp: 1550
Ion Ratio Lower Upper
64 100
66 0.0 25.4 38.2#



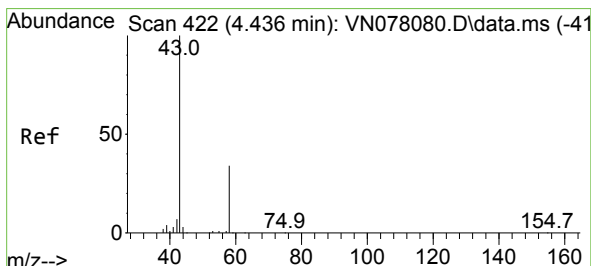
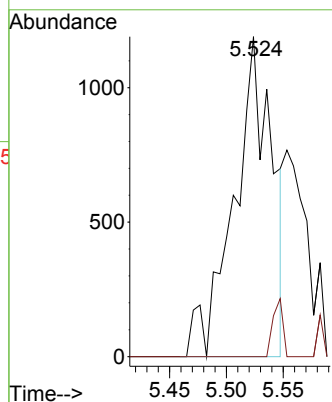
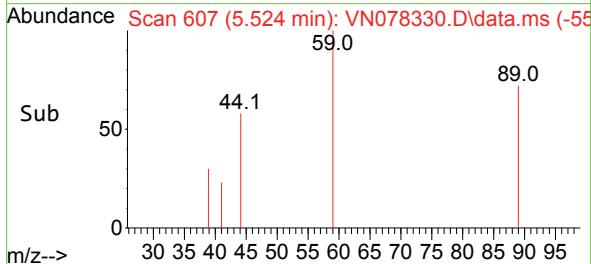


#11
Tert butyl alcohol
Concen: 3.337 ug/l
RT: 5.524 min Scan# 609
Delta R.T. -0.012 min
Lab File: VN078330.D
Acq: 21 Jun 2023 18:23

Instrument :
MSVOA_N
ClientSampleId :

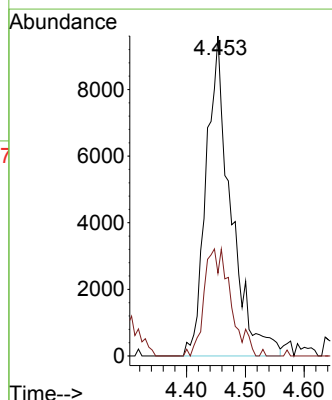
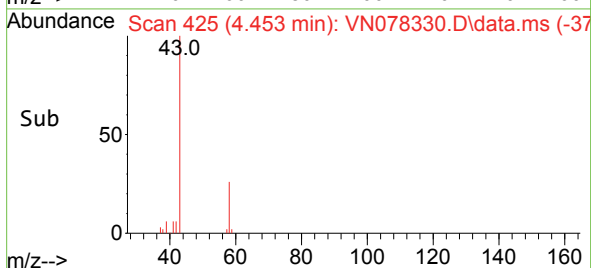
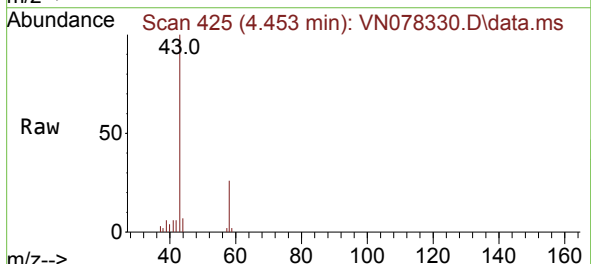


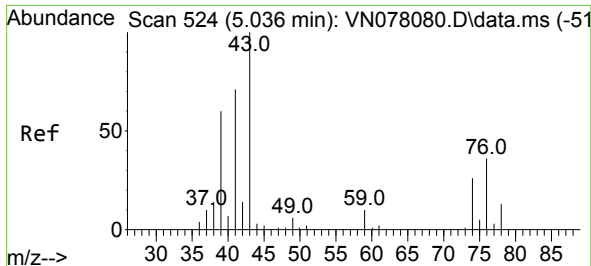
Tgt Ion: 59 Resp: 2756
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#



#16
Acetone
Concen: 16.219 ug/l
RT: 4.453 min Scan# 425
Delta R.T. 0.018 min
Lab File: VN078330.D
Acq: 21 Jun 2023 18:23

Tgt Ion: 43 Resp: 27922
Ion Ratio Lower Upper
43 100
58 25.9 28.0 42.0#





#18

Methyl Acetate

Concen: 0.669 ug/l

RT: 5.053 min Scan# 51

Delta R.T. 0.018 min

Lab File: VN078330.D

Acq: 21 Jun 2023 18:23

Instrument :

MSVOA_N

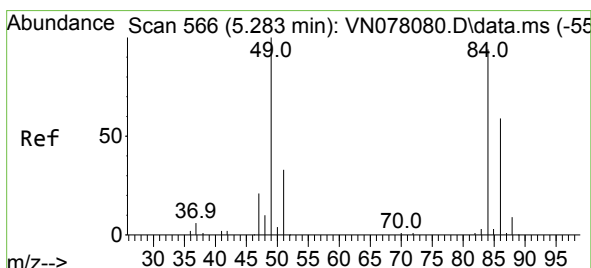
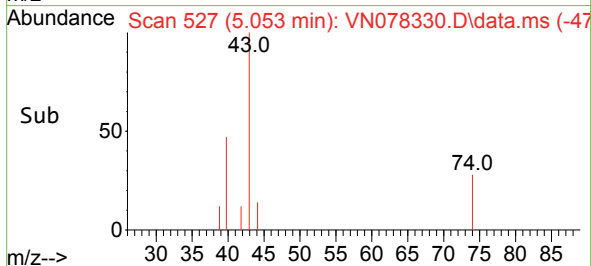
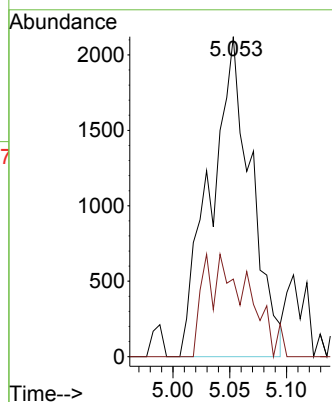
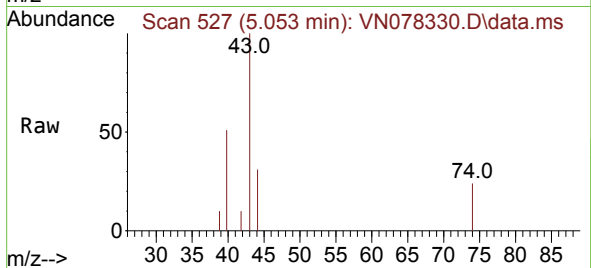
ClientSampleId :

Tgt Ion: 43 Resp: 5301

Ion Ratio Lower Upper

43 100

74 0.0 26.2 39.4#



#20

Methylene Chloride

Concen: 4.264 ug/l

RT: 5.288 min Scan# 567

Delta R.T. 0.006 min

Lab File: VN078330.D

Acq: 21 Jun 2023 18:23

Tgt Ion: 84 Resp: 24261

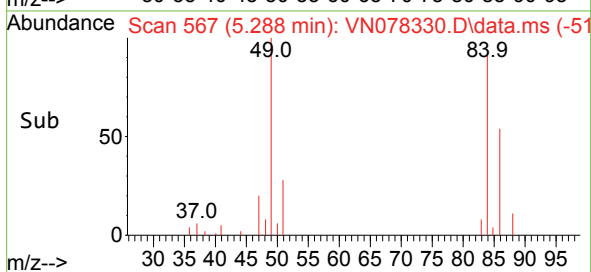
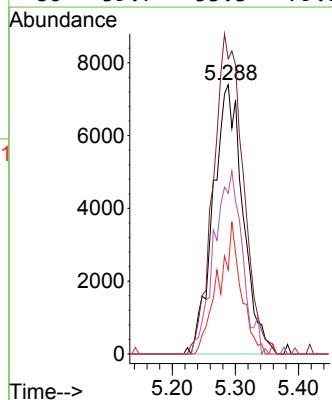
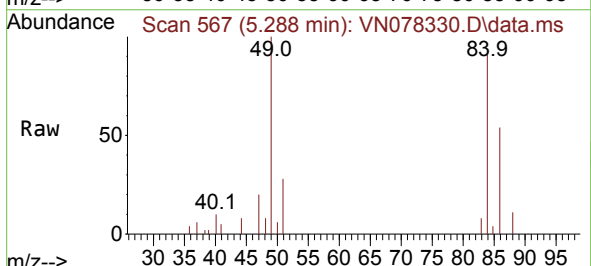
Ion Ratio Lower Upper

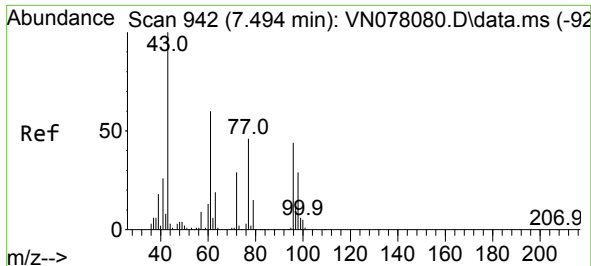
84 100

49 109.6 79.7 119.5

51 31.2 25.2 37.8

86 59.7 53.3 79.9





#25

2-Butanone

Concen: 4.038 ug/l

RT: 7.500 min Scan# 94

Delta R.T. 0.006 min

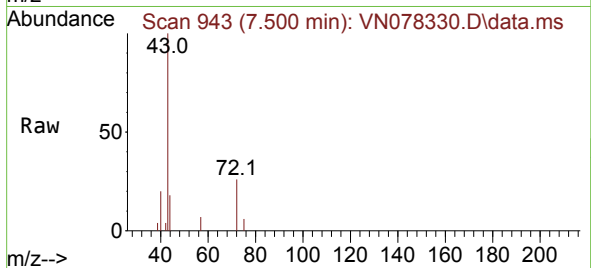
Lab File: VN078330.D

Acq: 21 Jun 2023 18:23

Instrument :

MSVOA_N

ClientSampleId :

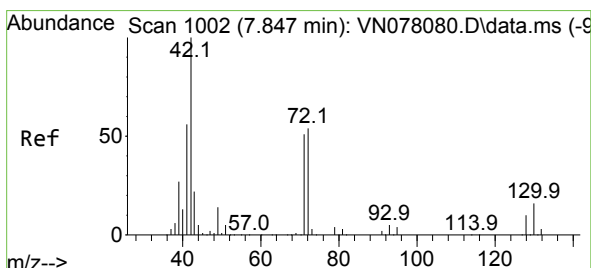
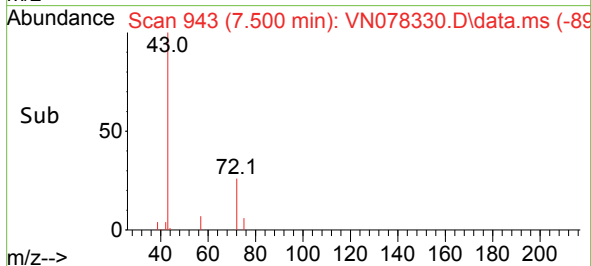
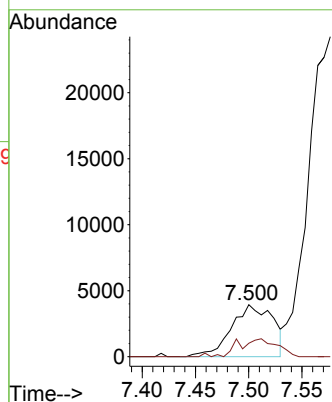


Tgt Ion: 43 Resp: 10691

Ion Ratio Lower Upper

43 100

72 25.8 30.2 45.2#



#29

Tetrahydrofuran

Concen: 0.396 ug/l

RT: 7.865 min Scan# 1005

Delta R.T. 0.018 min

Lab File: VN078330.D

Acq: 21 Jun 2023 18:23

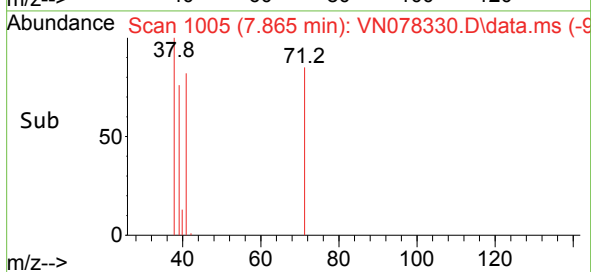
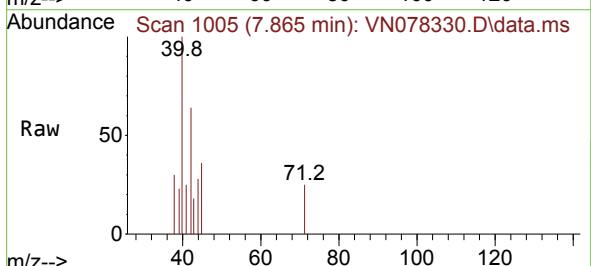
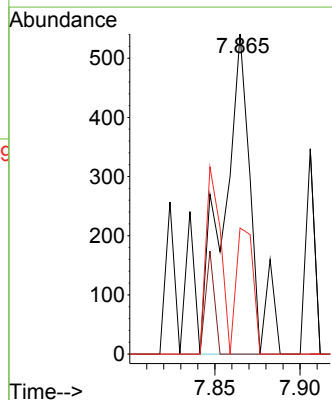
Tgt Ion: 42 Resp: 700

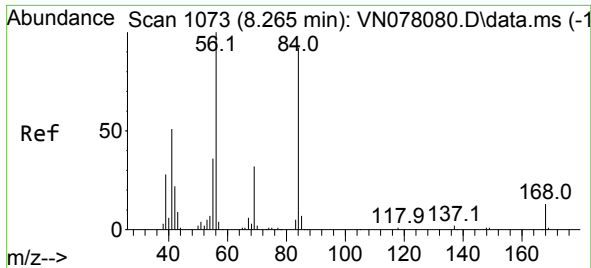
Ion Ratio Lower Upper

42 100

72 0.0 49.8 74.6#

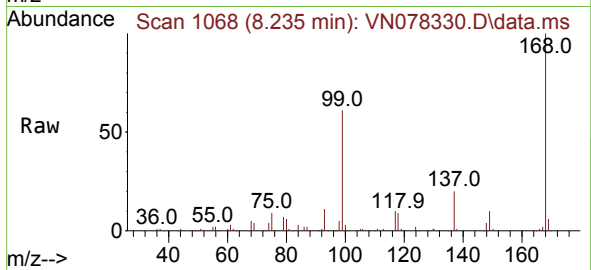
71 20.9 47.4 71.2#



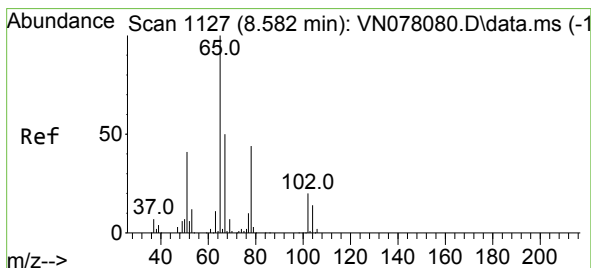
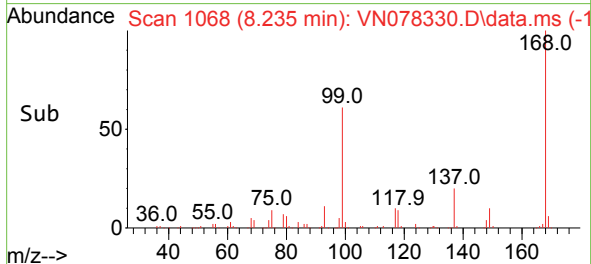
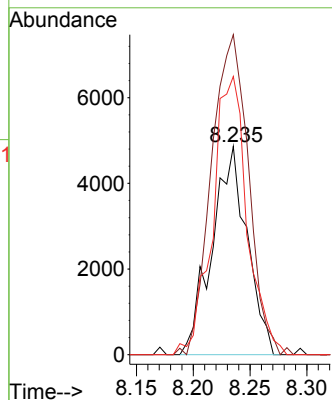


#31
Cyclohexane
Concen: 1.366 ug/l
RT: 8.235 min Scan# 1068
Delta R.T. -0.030 min
Lab File: VN078330.D
Acq: 21 Jun 2023 18:23

Instrument :
MSVOA_N
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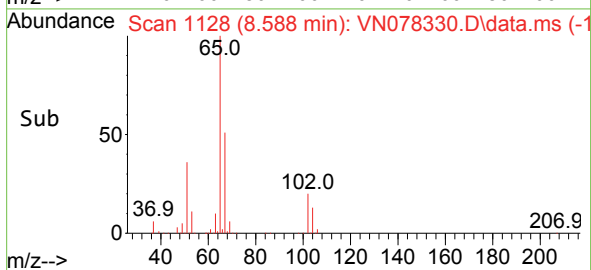
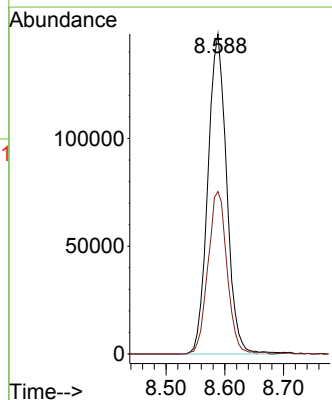
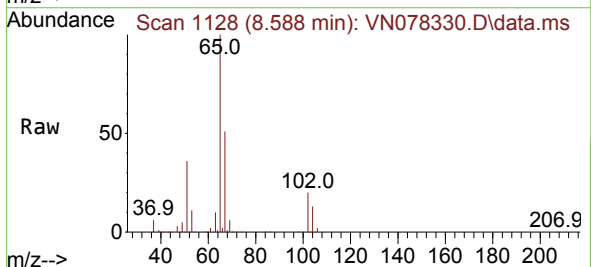


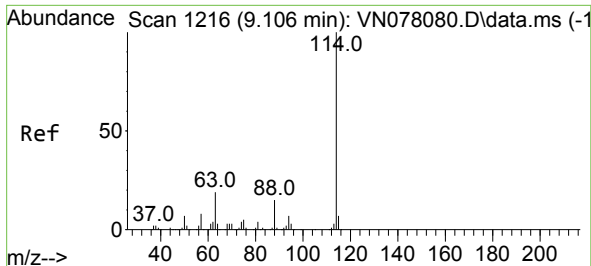
Tgt Ion: 56 Resp: 10477
Ion Ratio Lower Upper
56 100
69 153.7 26.8 40.2#
84 129.2 81.8 122.6#



#33
1,2-Dichloroethane-d4
Concen: 55.035 ug/l
RT: 8.588 min Scan# 1128
Delta R.T. 0.006 min
Lab File: VN078330.D
Acq: 21 Jun 2023 18:23

Tgt Ion: 65 Resp: 329174
Ion Ratio Lower Upper
65 100
67 51.5 0.0 106.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.112 min Scan# 11

Delta R.T. 0.006 min

Lab File: VN078330.D

Acq: 21 Jun 2023 18:23

Instrument :

MSVOA_N

ClientSampleId :

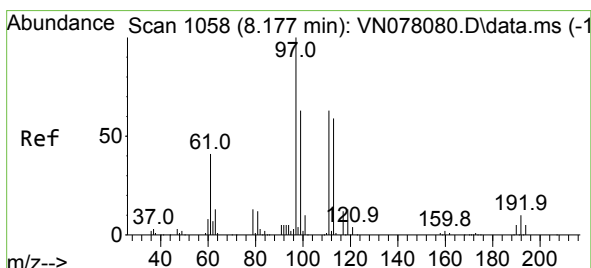
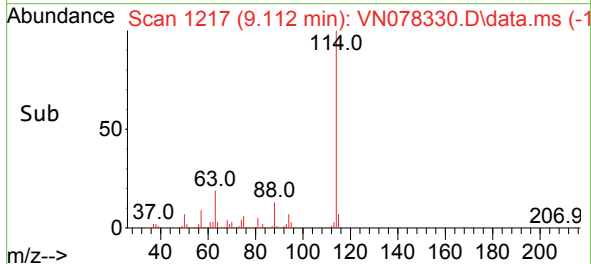
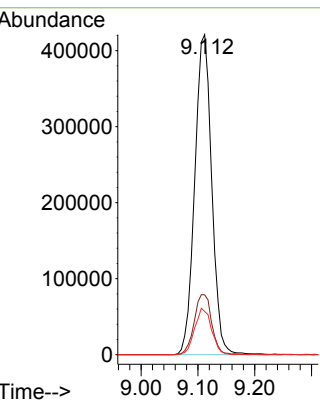
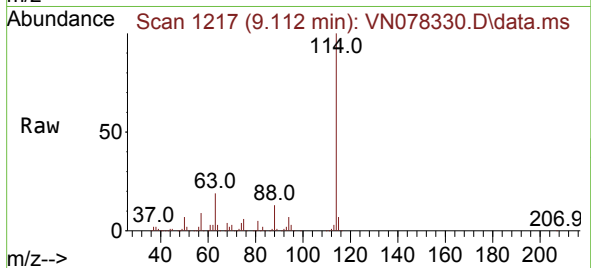
Tgt Ion:114 Resp: 872487

Ion Ratio Lower Upper

114 100

63 18.7 0.0 36.4

88 13.5 0.0 30.6



#35

Dibromofluoromethane

Concen: 54.292 ug/l

RT: 8.171 min Scan# 1057

Delta R.T. -0.006 min

Lab File: VN078330.D

Acq: 21 Jun 2023 18:23

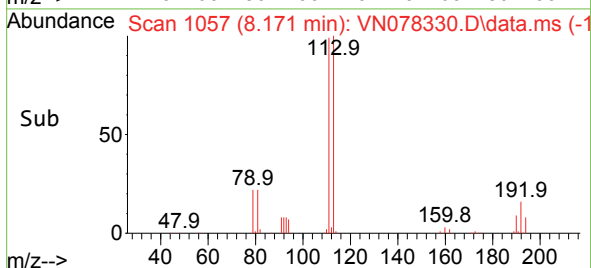
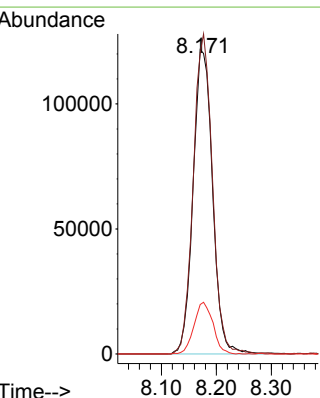
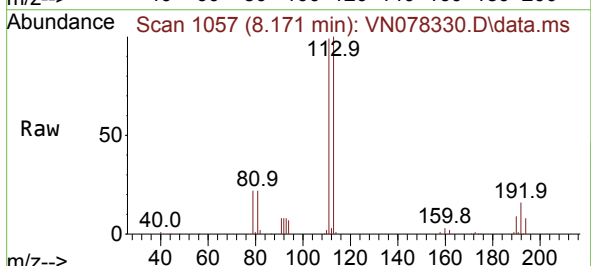
Tgt Ion:113 Resp: 299510

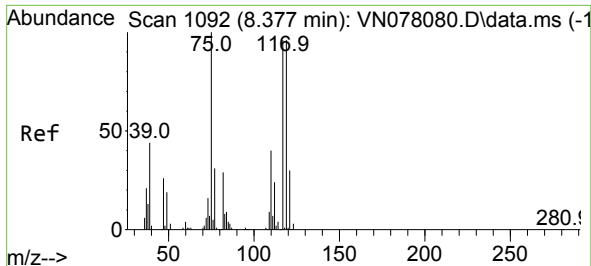
Ion Ratio Lower Upper

113 100

111 103.2 82.6 123.8

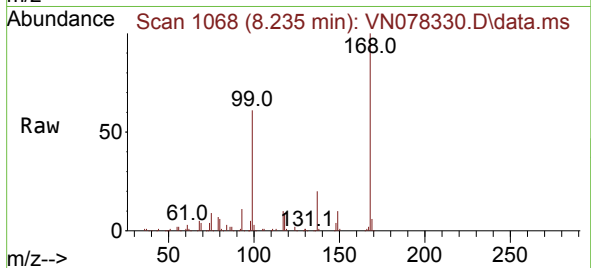
192 16.6 12.7 19.1



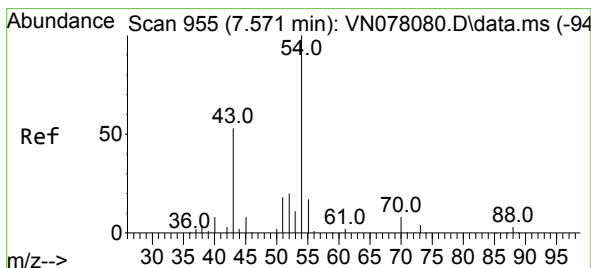
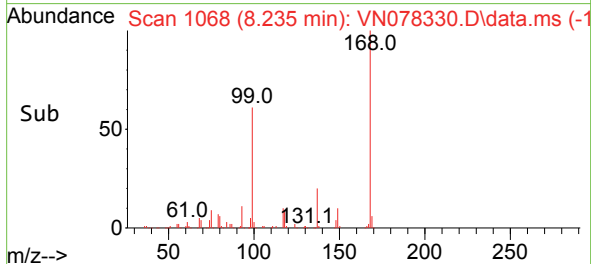
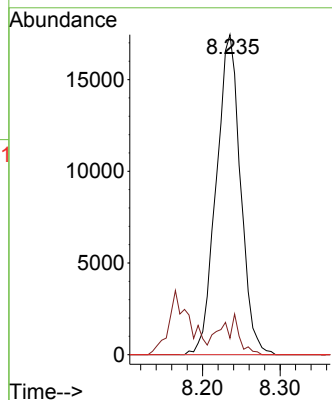


#36
1,1-Dichloropropene
Concen: 4.802 ug/l
RT: 8.235 min Scan# 1068
Delta R.T. -0.141 min
Lab File: VN078330.D
Acq: 21 Jun 2023 18:23

Instrument :
MSVOA_N
ClientSampleId :

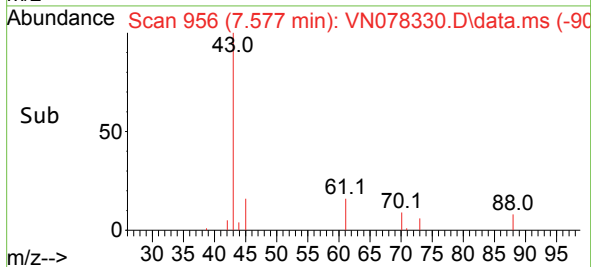
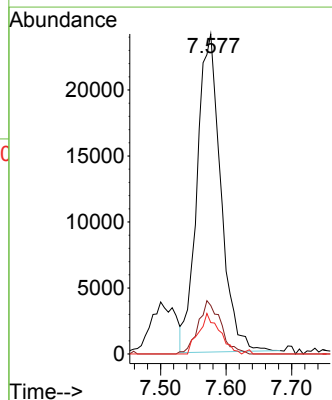
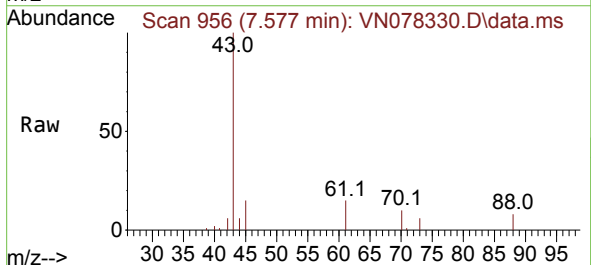


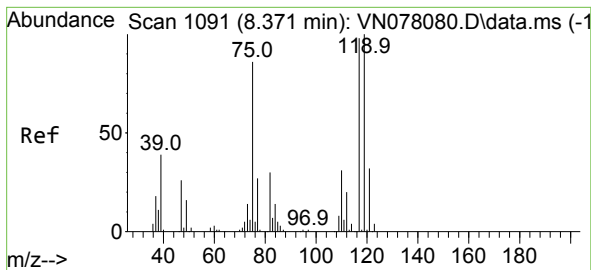
Tgt Ion: 75 Resp: 37994
Ion Ratio Lower Upper
75 100
110 3.5 19.1 57.3#
77 0.0 25.0 37.4#



#37
Ethyl Acetate
Concen: 9.816 ug/l
RT: 7.577 min Scan# 956
Delta R.T. 0.006 min
Lab File: VN078330.D
Acq: 21 Jun 2023 18:23

Tgt Ion: 43 Resp: 60679
Ion Ratio Lower Upper
43 100
61 16.0 13.2 19.8
70 11.2 11.3 16.9#





#38

Carbon Tetrachloride

Concen: 5.948 ug/l

RT: 8.229 min Scan# 1067

Delta R.T. -0.141 min

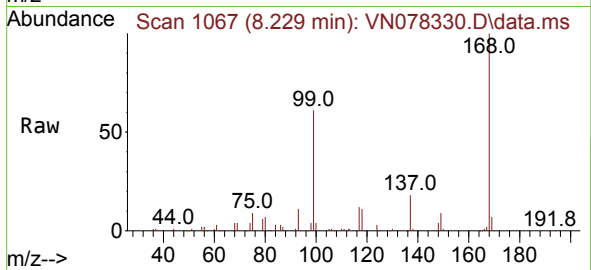
Lab File: VN078330.D

Acq: 21 Jun 2023 18:23

Instrument :

MSVOA_N

ClientSampleId :



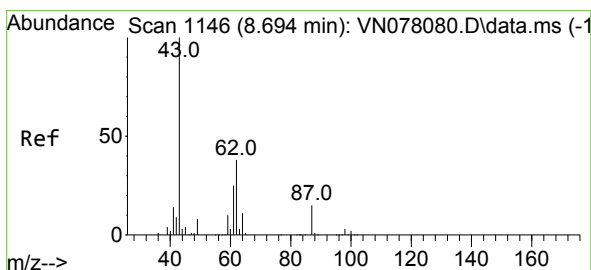
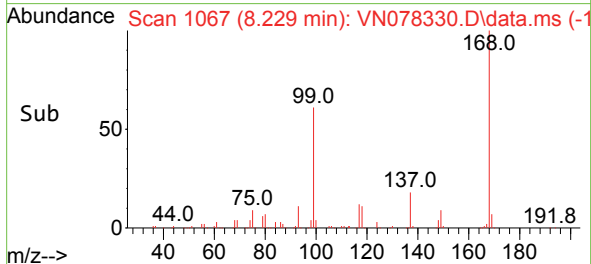
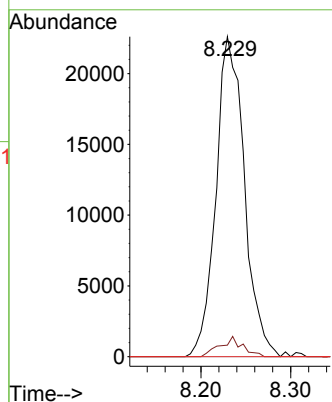
Tgt Ion:117 Resp: 49695

Ion Ratio Lower Upper

117 100

119 3.6 77.3 115.9#

121 0.0 23.3 34.9#



#43

Isopropyl Acetate

Concen: 37.188 ug/l

RT: 8.700 min Scan# 1147

Delta R.T. 0.006 min

Lab File: VN078330.D

Acq: 21 Jun 2023 18:23

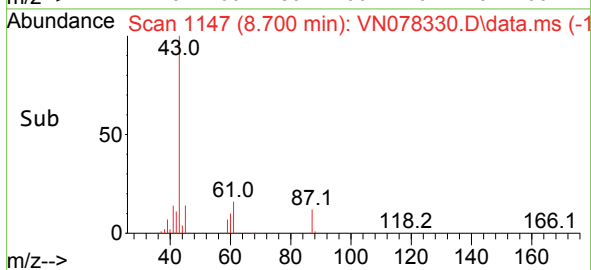
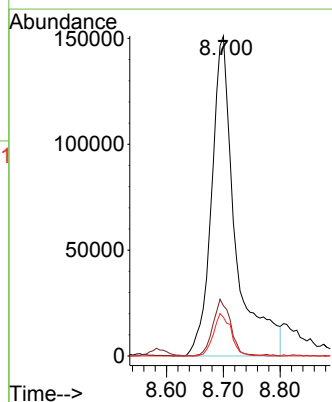
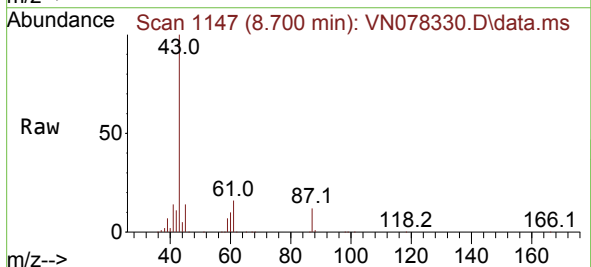
Tgt Ion: 43 Resp: 439632

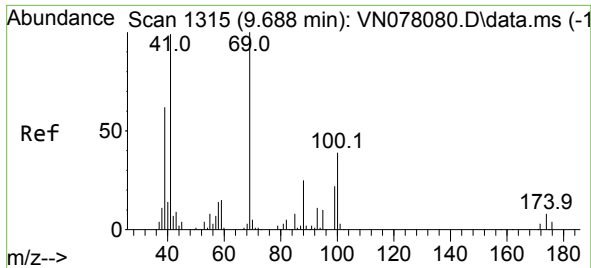
Ion Ratio Lower Upper

43 100

61 13.2 24.7 37.1#

87 9.8 14.6 21.8#

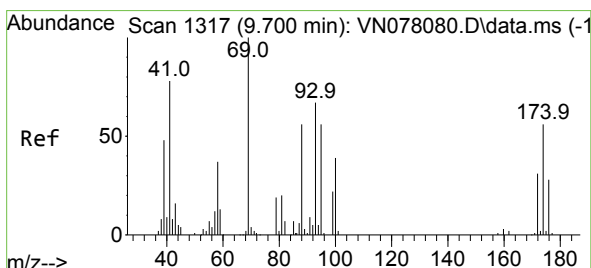
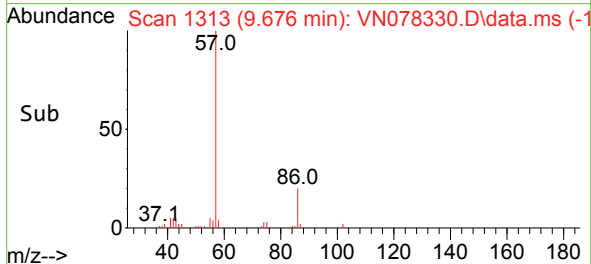
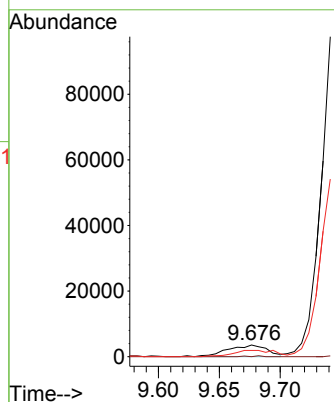
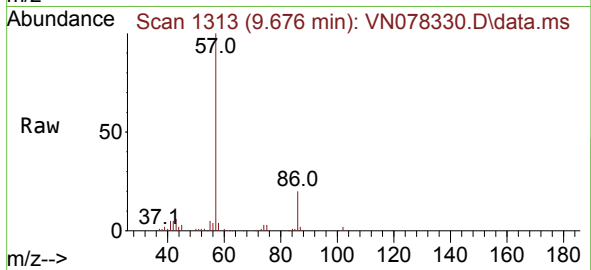




#48
Methyl methacrylate
Concen: 1.622 ug/l
RT: 9.676 min Scan# 11
Delta R.T. -0.012 min
Lab File: VN078330.D
Acq: 21 Jun 2023 18:23

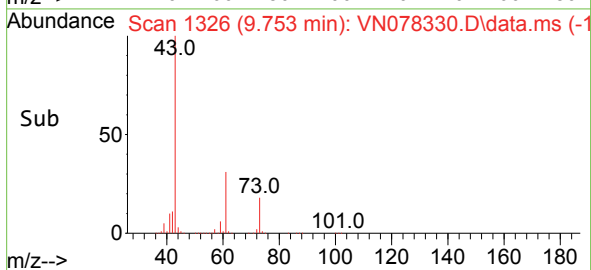
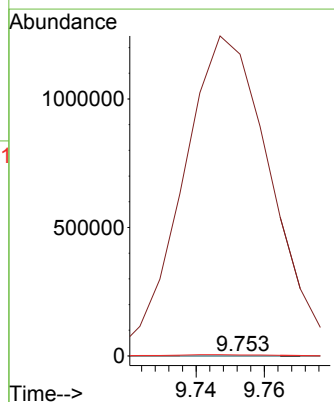
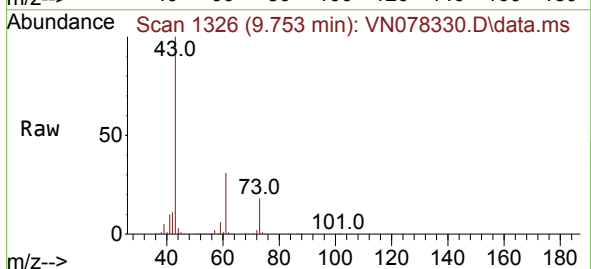
Instrument :
MSVOA_N
ClientSampleId :

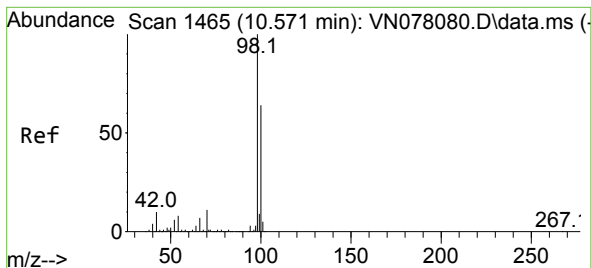
Tgt Ion: 41 Resp: 8045
Ion Ratio Lower Upper
41 100
69 2.2 90.4 135.6#
39 58.9 54.6 81.8



#49
1,4-Dioxane
Concen: 1.314 ug/l
RT: 9.753 min Scan# 1326
Delta R.T. 0.053 min
Lab File: VN078330.D
Acq: 21 Jun 2023 18:23

Tgt Ion: 88 Resp: 137
Ion Ratio Lower Upper
88 100
43 1658462.8 17.0 25.6#
58 8178.8 47.0 70.4#

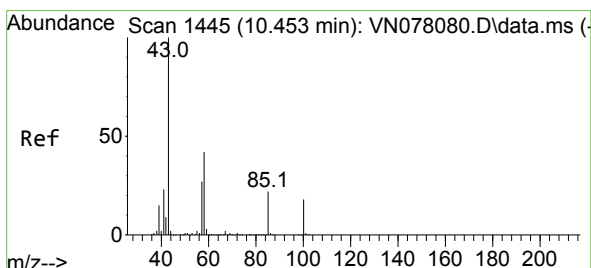
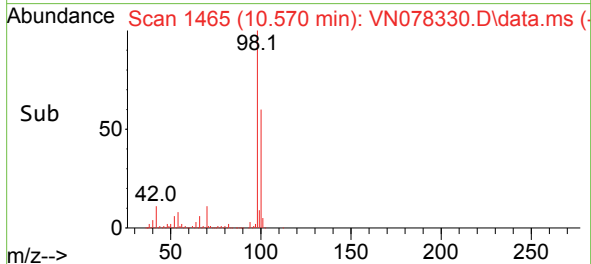
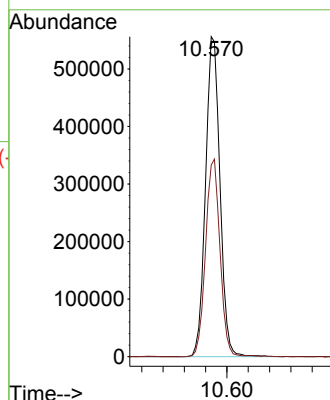
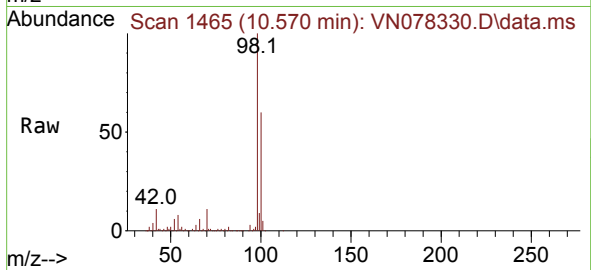




#50
Toluene-d8
Concen: 49.089 ug/l
RT: 10.570 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VN078330.D
Acq: 21 Jun 2023 18:23

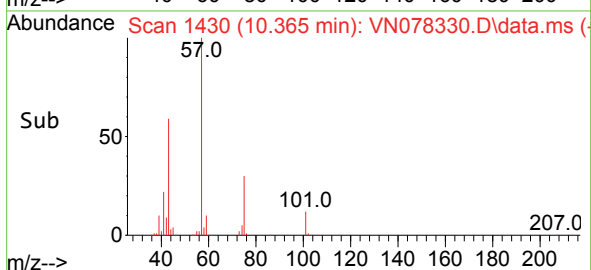
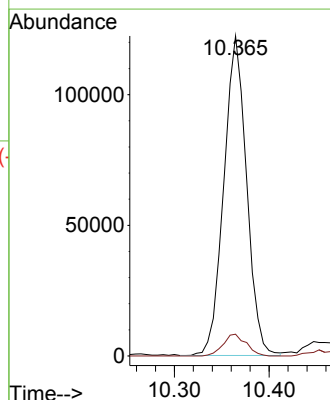
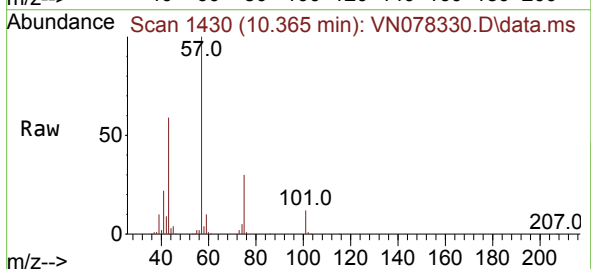
Instrument :
MSVOA_N
ClientSampleId :

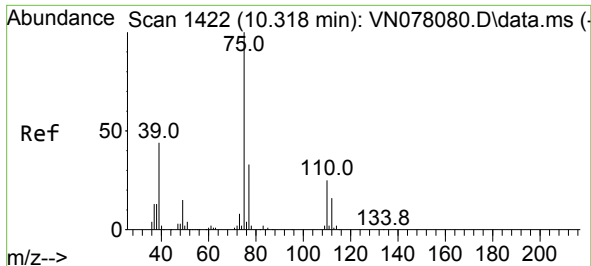
Tgt Ion: 98 Resp: 1043984
Ion Ratio Lower Upper
98 100
100 61.9 52.0 78.0



#51
4-Methyl-2-Pentanone
Concen: 32.821 ug/l
RT: 10.365 min Scan# 1430
Delta R.T. -0.088 min
Lab File: VN078330.D
Acq: 21 Jun 2023 18:23

Tgt Ion: 43 Resp: 204320
Ion Ratio Lower Upper
43 100
58 6.9 36.6 54.8#

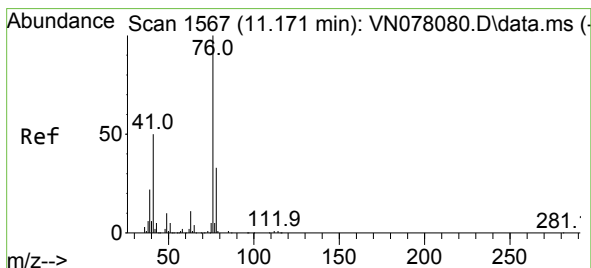
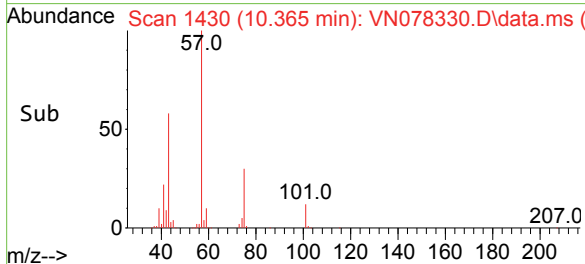
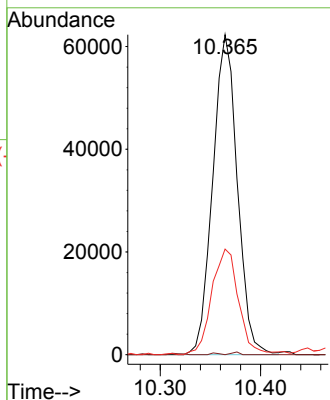
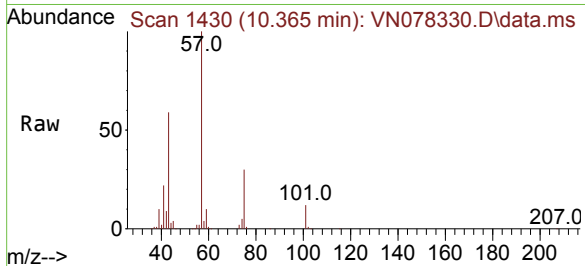




#54
cis-1,3-Dichloropropene
Concen: 11.474 ug/l
RT: 10.365 min Scan# 14
Delta R.T. 0.047 min
Lab File: VN078330.D
Acq: 21 Jun 2023 18:23

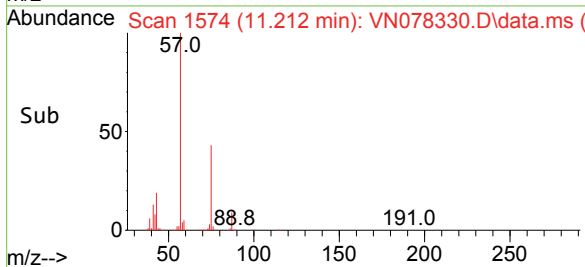
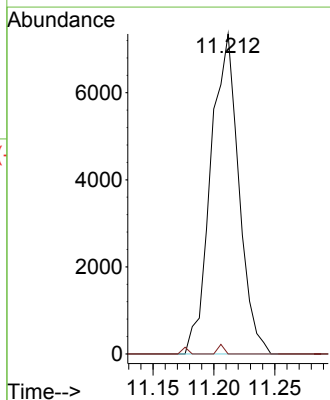
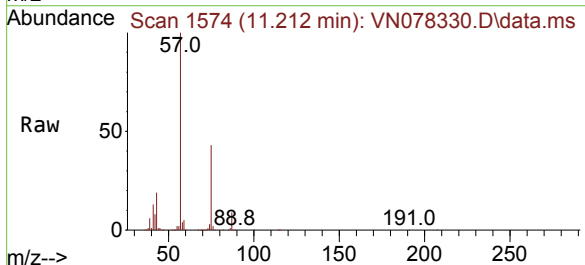
Instrument :
MSVOA_N
ClientSampleId :

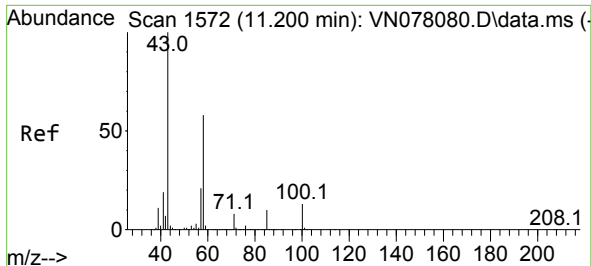
Tgt Ion: 75 Resp: 106220
Ion Ratio Lower Upper
75 100
77 0.0 26.1 39.1#
39 33.0 31.6 47.4



#57
1,3-Dichloropropane
Concen: 1.236 ug/l
RT: 11.212 min Scan# 1574
Delta R.T. 0.041 min
Lab File: VN078330.D
Acq: 21 Jun 2023 18:23

Tgt Ion: 76 Resp: 11771
Ion Ratio Lower Upper
76 100
78 0.7 26.1 39.1#

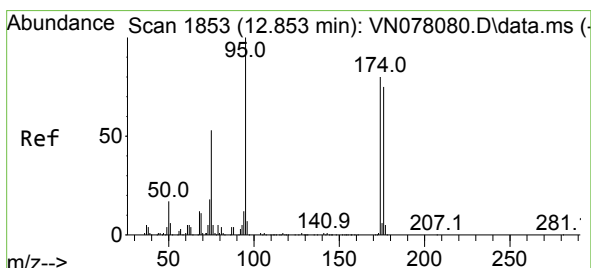
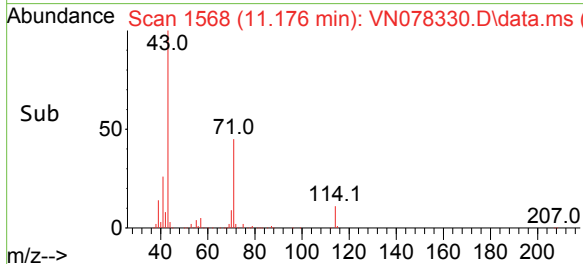
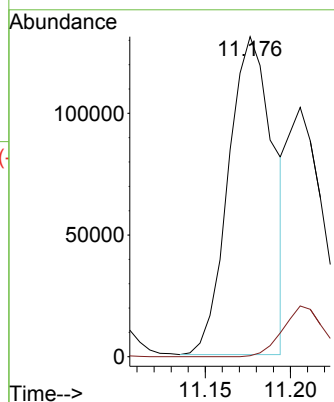
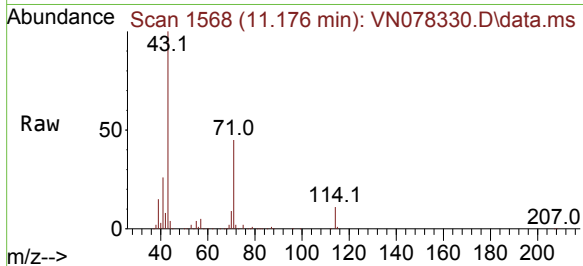




#59
2-Hexanone
Concen: 55.321 ug/l
RT: 11.176 min Scan# 1568
Delta R.T. -0.024 min
Lab File: VN078330.D
Acq: 21 Jun 2023 18:23

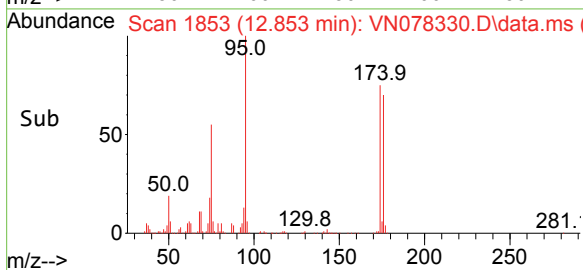
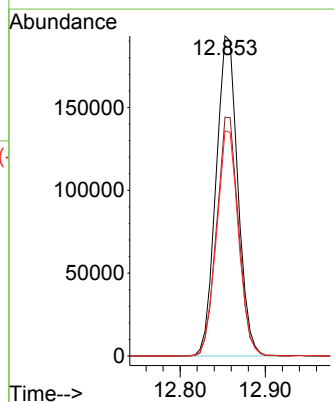
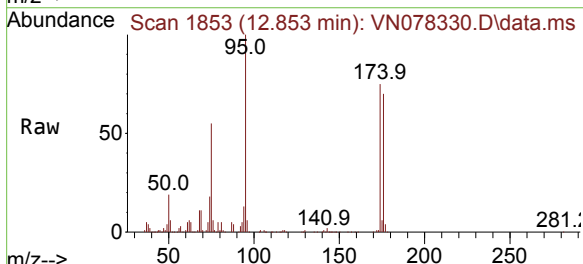
Instrument :
MSVOA_N
ClientSampleId :

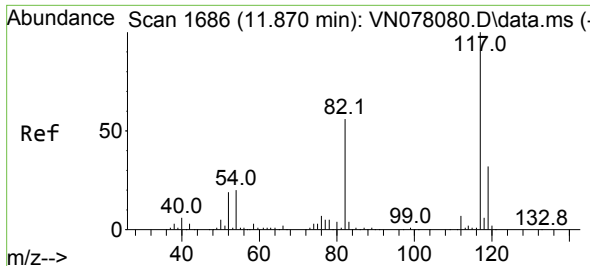
Tgt Ion: 43 Resp: 239797
Ion Ratio Lower Upper
43 100
58 0.0 31.7 95.1#



#62
4-Bromofluorobenzene
Concen: 51.886 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.000 min
Lab File: VN078330.D
Acq: 21 Jun 2023 18:23

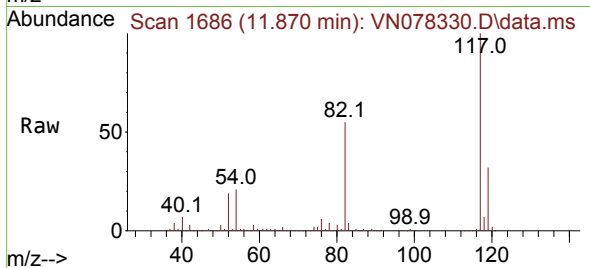
Tgt Ion: 95 Resp: 343040
Ion Ratio Lower Upper
95 100
174 74.8 0.0 143.8
176 71.2 0.0 135.8



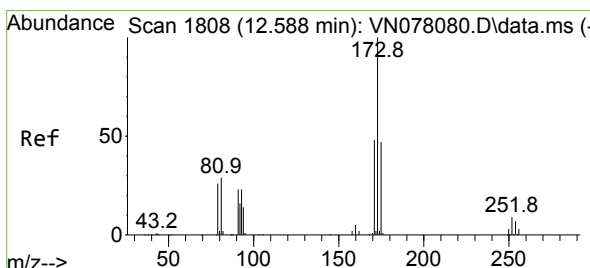
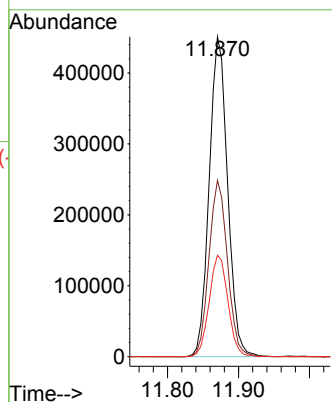
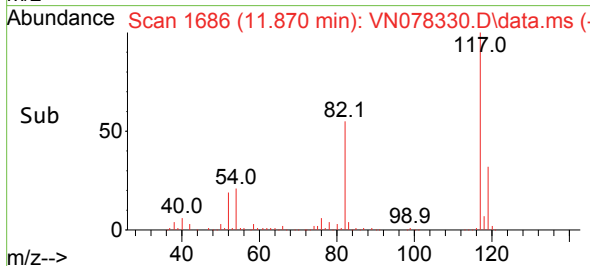


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.870 min Scan# 117
Delta R.T. -0.000 min
Lab File: VN078330.D
Acq: 21 Jun 2023 18:23

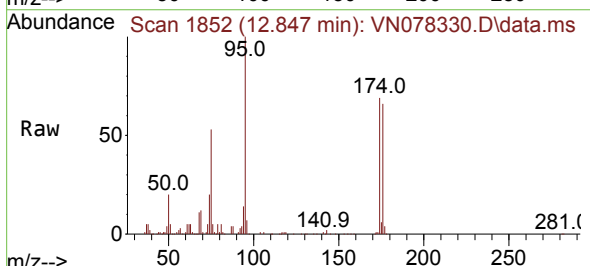
Instrument :
MSVOA_N
ClientSampleId :



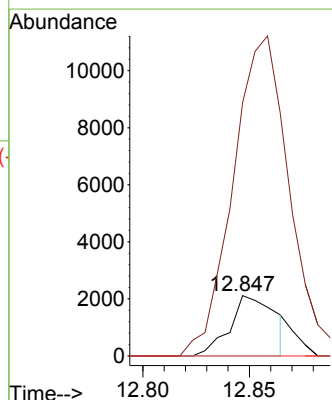
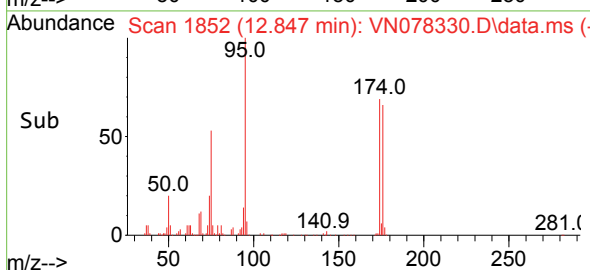
Tgt Ion:117 Resp: 810550
Ion Ratio Lower Upper
117 100
82 55.1 44.0 66.0
119 31.7 25.6 38.4

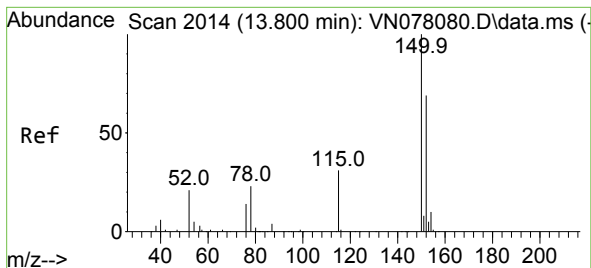


#71
Bromoform
Concen: 0.758 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.259 min
Lab File: VN078330.D
Acq: 21 Jun 2023 18:23



Tgt Ion:173 Resp: 3125
Ion Ratio Lower Upper
173 100
175 550.5 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# 20

Delta R.T. -0.000 min

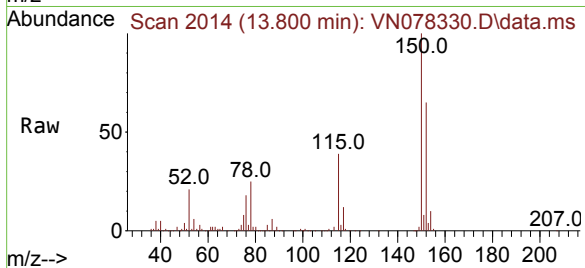
Lab File: VN078330.D

Acq: 21 Jun 2023 18:23

Instrument :

MSVOA_N

ClientSampleId :



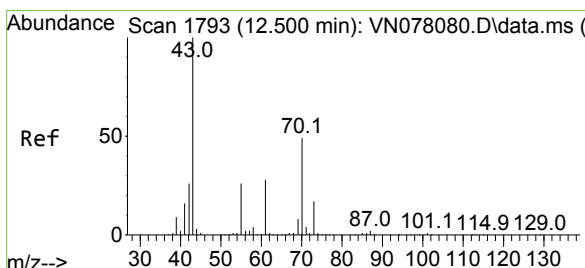
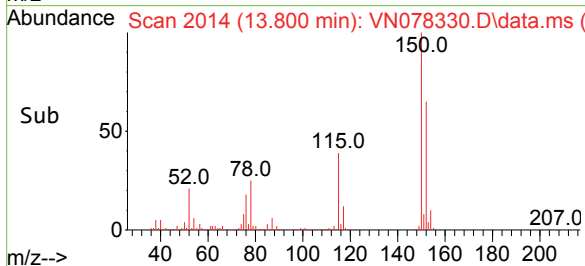
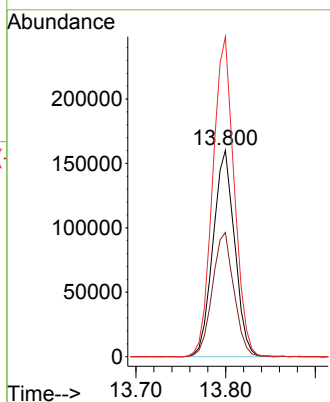
Tgt Ion:152 Resp: 268052

Ion Ratio Lower Upper

152 100

115 60.0 32.3 96.8

150 154.1 0.0 355.8



#74

N-ethyl acetate

Concen: 0.227 ug/l

RT: 12.482 min Scan# 1790

Delta R.T. -0.018 min

Lab File: VN078330.D

Acq: 21 Jun 2023 18:23

Tgt Ion: 43 Resp: 1896

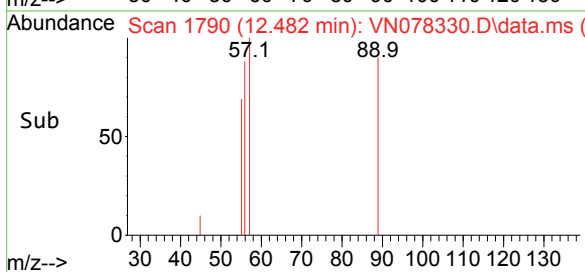
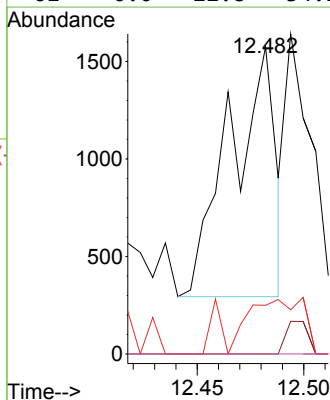
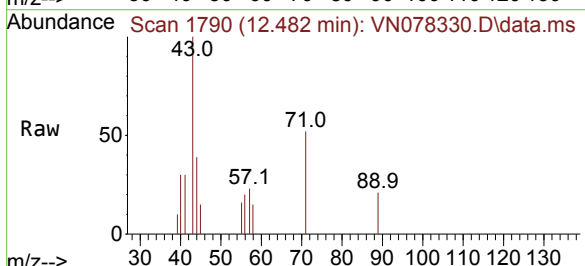
Ion Ratio Lower Upper

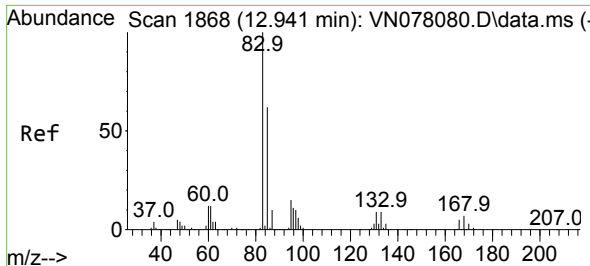
43 100

70 6.2 43.4 65.2#

55 27.0 21.4 32.0

61 0.0 22.8 34.2#

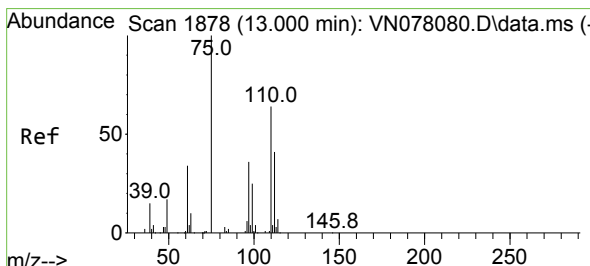
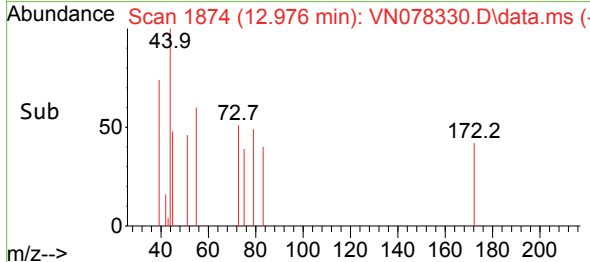
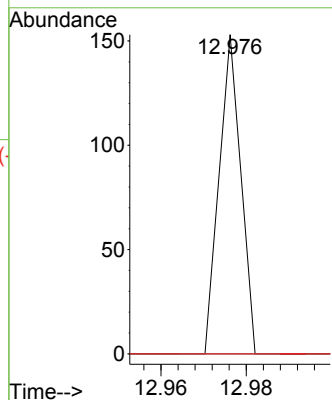
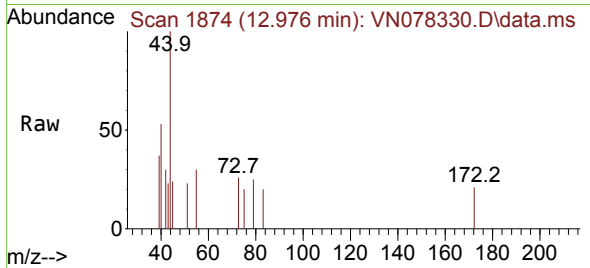




#75
1,1,2,2-Tetrachloroethane
Concen: Below Cal
RT: 12.976 min Scan# 1874
Delta R.T. 0.035 min
Lab File: VN078330.D
Acq: 21 Jun 2023 18:23

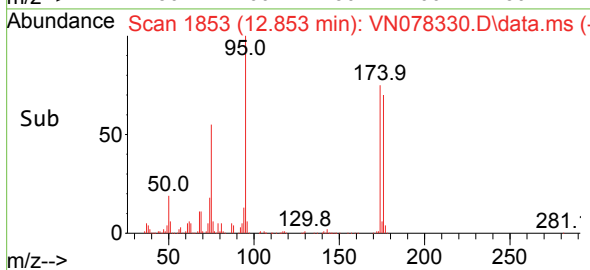
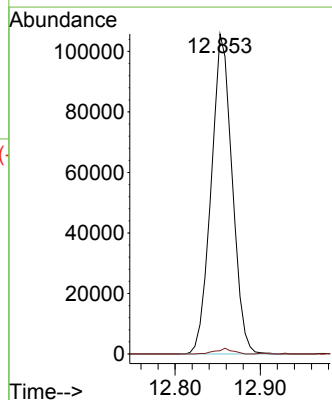
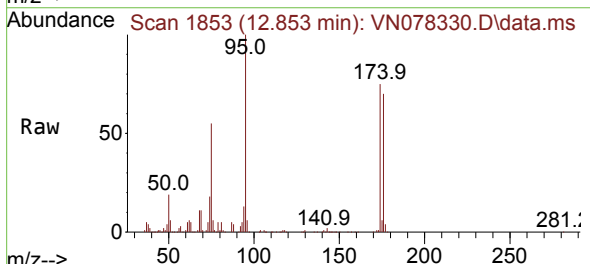
Instrument :
MSVOA_N
ClientSampleId :

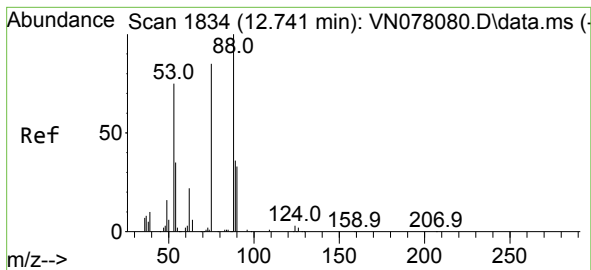
Tgt Ion: 83 Resp: 54
Ion Ratio Lower Upper
83 100
131 0.0 5.0 15.0#
85 0.0 31.9 95.7#



#76
1,2,3-Trichloropropane
Concen: 28.558 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.147 min
Lab File: VN078330.D
Acq: 21 Jun 2023 18:23

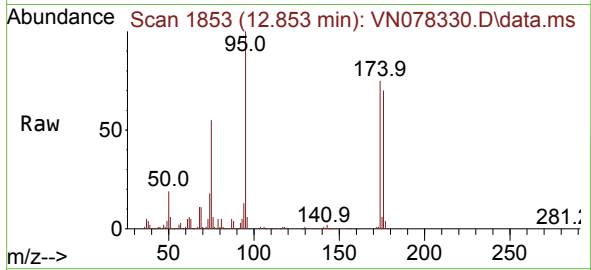
Tgt Ion: 75 Resp: 180969
Ion Ratio Lower Upper
75 100
77 1.4 84.5 253.5#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 87.740 ug/l
 RT: 12.853 min Scan# 1834
 Delta R.T. 0.112 min
 Lab File: VN078330.D
 Acq: 21 Jun 2023 18:23

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion: 75 Resp: 180969
 Ion Ratio Lower Upper
 75 100
 53 0.1 67.4 101.2#
 89 0.0 38.8 58.2#

