

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061223\
 Data File : VN078164.D
 Acq On : 12 Jun 2023 14:18
 Operator : JC\MD
 Sample : PB153344TB
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB153344TB

Quant Time: Jun 13 01:32:19 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)

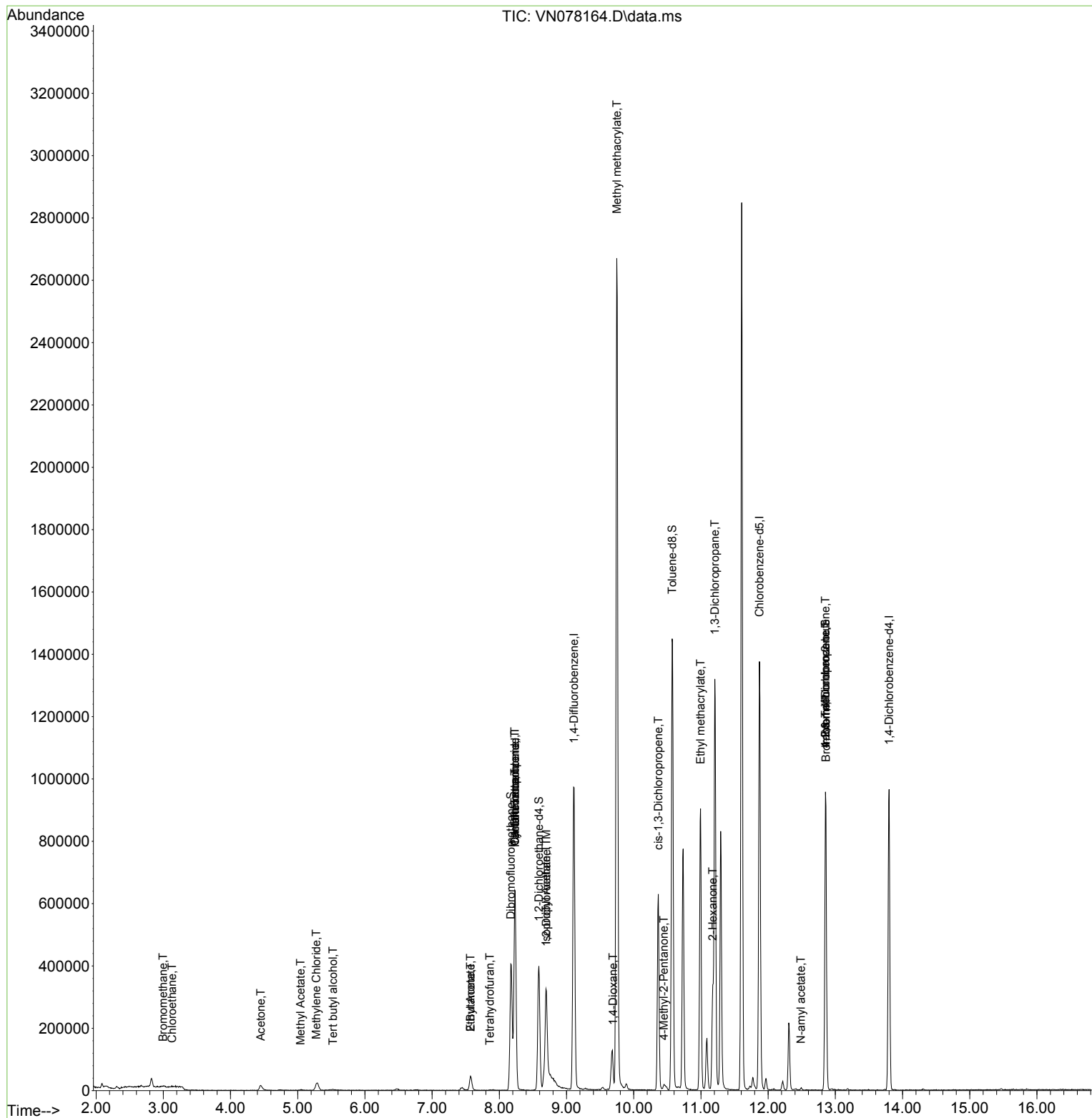
Internal Standards						
1) Pentafluorobenzene	8.236	168	460403	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.112	114	872345	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	811312	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	260581	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	331760	54.045	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 108.100%			
35) Dibromofluoromethane	8.171	113	291736	52.892	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 105.780%			
50) Toluene-d8	10.571	98	1064907	50.081	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 100.160%			
62) 4-Bromofluorobenzene	12.853	95	334143	50.548	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 101.100%			
Target Compounds						
					Qvalue	
3) Chloromethane	2.371	50	1544	Below Cal		96
5) Bromomethane	2.995	94	2232	0.433 ug/l #		42
6) Chloroethane	3.130	64	1025	0.221 ug/l #		43
11) Tert butyl alcohol	5.524	59	1157	1.365 ug/l #		72
16) Acetone	4.448	43	29938	16.944 ug/l		99
18) Methyl Acetate	5.042	43	1851	0.228 ug/l #		87
20) Methylene Chloride	5.277	84	19481	3.336 ug/l #		80
25) 2-Butanone	7.571	43	64580	23.768 ug/l #		37
29) Tetrahydrofuran	7.859	42	810	0.446 ug/l #		47
31) Cyclohexane	8.230	56	10652	1.353 ug/l #		5
36) 1,1-Dichloropropene	8.230	75	41756	5.278 ug/l #		48
37) Ethyl Acetate	7.571	43	64580	10.449 ug/l #		89
38) Carbon Tetrachloride	8.230	117	50374	6.030 ug/l #		15
42) 1,2-Dichloroethane	8.700	62	2672	0.330 ug/l #		73
43) Isopropyl Acetate	8.694	43	404239	34.199 ug/l #		78
48) Methyl methacrylate	9.747	41	245006	49.393 ug/l #		28
49) 1,4-Dioxane	9.694	88	60	0.576 ug/l #		30
51) 4-Methyl-2-Pentanone	10.447	43	20439	3.284 ug/l #		69
54) cis-1,3-Dichloropropene	10.365	75	119980	12.962 ug/l #		68
56) Ethyl methacrylate	10.994	69	3914	0.476 ug/l #		1
57) 1,3-Dichloropropane	11.206	76	14850	1.559 ug/l #		42
59) 2-Hexanone	11.177	43	259355	59.843 ug/l #		19
71) Bromoform	12.859	173	2514	0.610 ug/l #		1
74) N-amyl acetate	12.488	43	2282	0.281 ug/l #		39
75) 1,1,2,2-Tetrachloroethane	12.953	83	163	Below Cal #		26
76) 1,2,3-Trichloropropane	12.853	75	179446	29.130 ug/l #		1
81) trans-1,4-Dichloro-2-b...	12.853	75	179446	89.496 ug/l #		15

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

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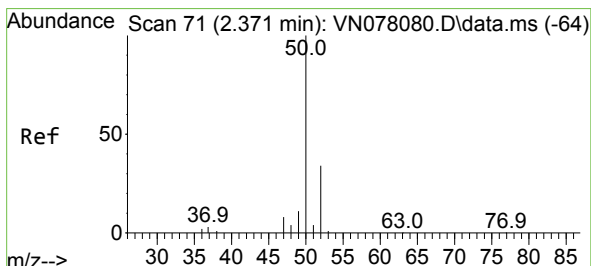
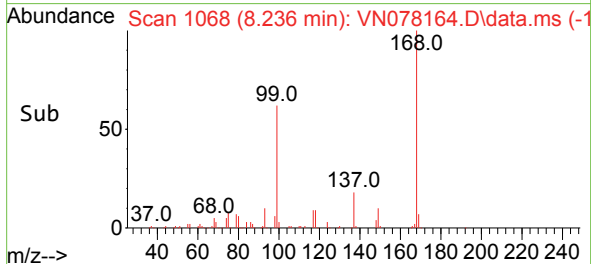
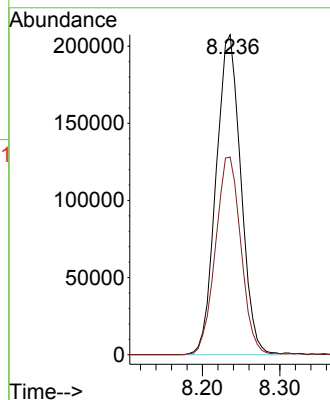
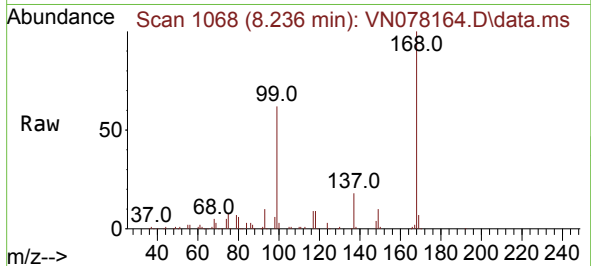




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.236 min Scan# 1068
Delta R.T. 0.001 min
Lab File: VN078164.D
Acq: 12 Jun 2023 14:18

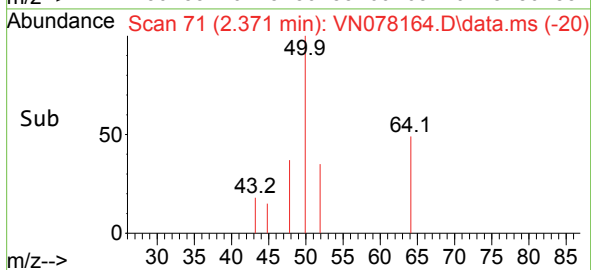
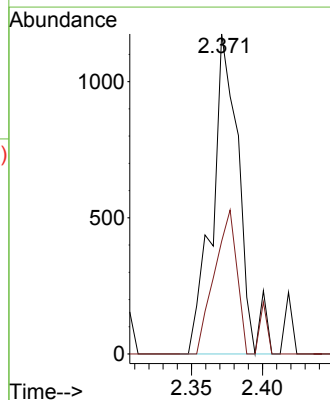
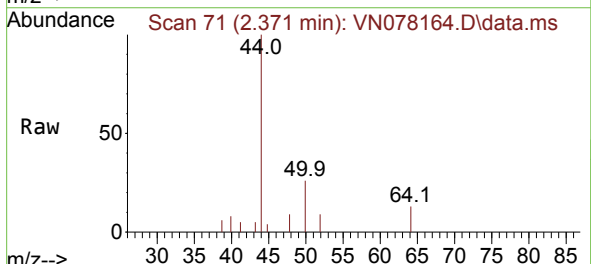
Instrument :
MSVOA_N
ClientSampleId :
PB153344TB

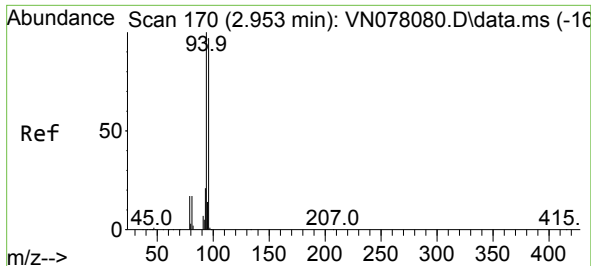
Tgt Ion:168 Resp: 460403
Ion Ratio Lower Upper
168 100
99 61.7 53.0 79.6



#3
Chloromethane
Concen: Below Cal
RT: 2.371 min Scan# 71
Delta R.T. 0.000 min
Lab File: VN078164.D
Acq: 12 Jun 2023 14:18

Tgt Ion: 50 Resp: 1544
Ion Ratio Lower Upper
50 100
52 35.2 26.5 39.7

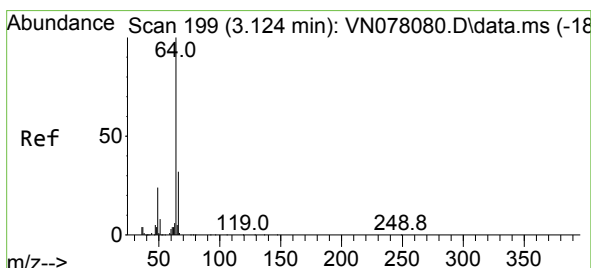
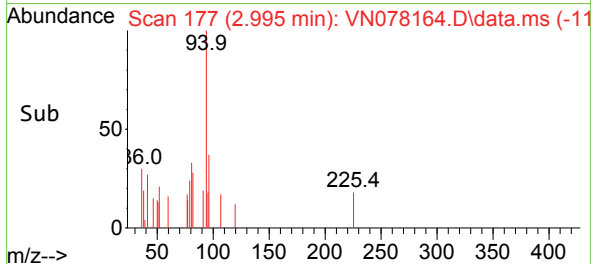
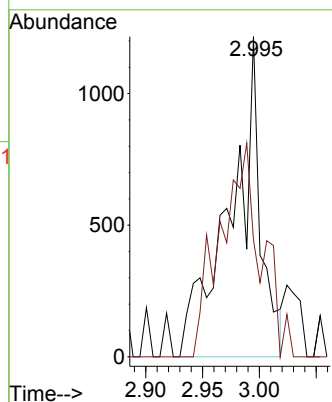
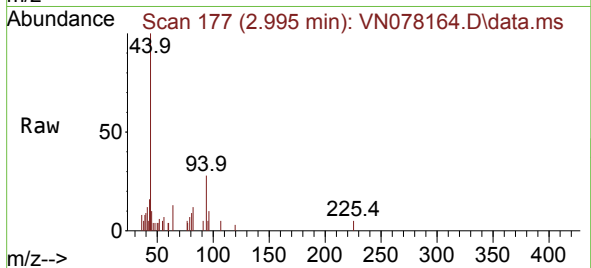




#5
Bromomethane
Concen: 0.433 ug/l
RT: 2.995 min Scan# 11
Delta R.T. 0.041 min
Lab File: VN078164.D
Acq: 12 Jun 2023 14:18

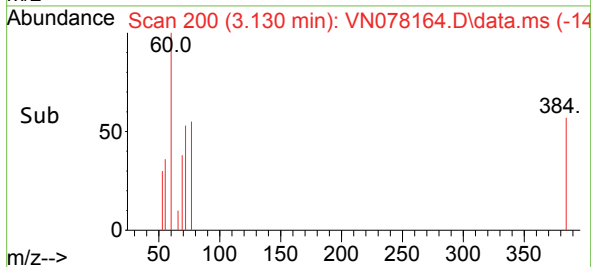
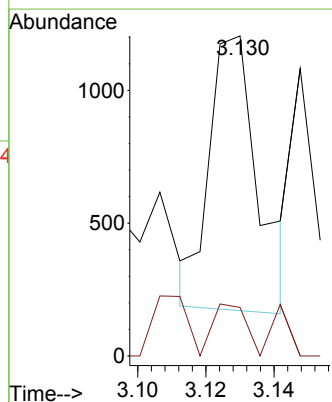
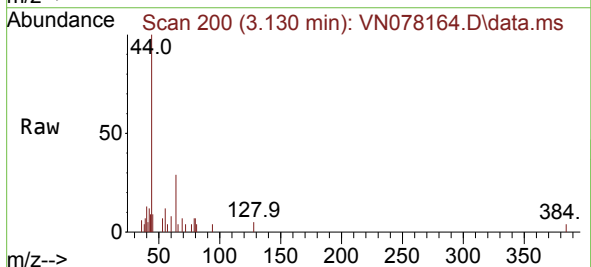
Instrument :
MSVOA_N
ClientSampleId :
PB153344TB

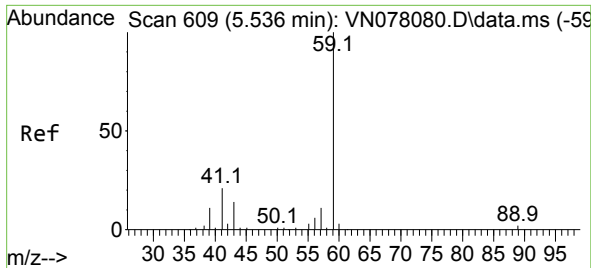
Tgt Ion: 94 Resp: 2232
Ion Ratio Lower Upper
94 100
96 36.5 73.1 109.7#



#6
Chloroethane
Concen: 0.221 ug/l
RT: 3.130 min Scan# 200
Delta R.T. 0.006 min
Lab File: VN078164.D
Acq: 12 Jun 2023 14:18

Tgt Ion: 64 Resp: 1025
Ion Ratio Lower Upper
64 100
66 0.0 25.4 38.2#

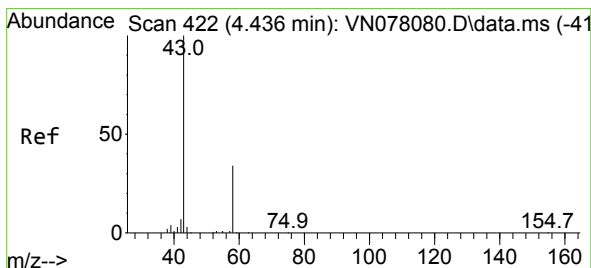
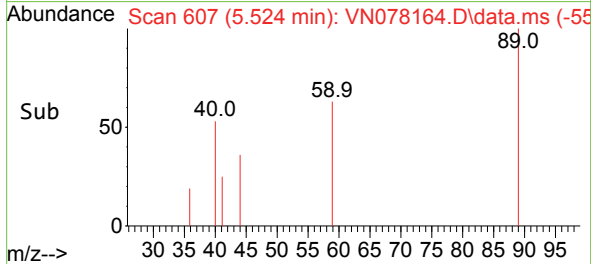
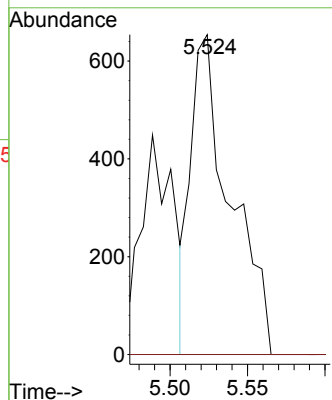
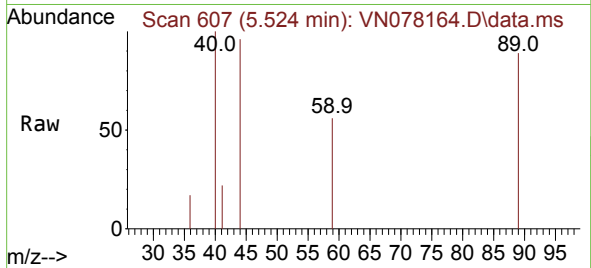




#11
Tert butyl alcohol
Concen: 1.365 ug/l
RT: 5.524 min Scan# 609
Delta R.T. -0.012 min
Lab File: VN078164.D
Acq: 12 Jun 2023 14:18

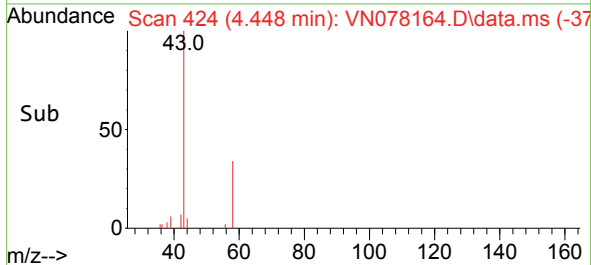
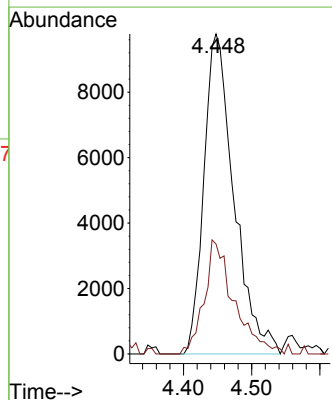
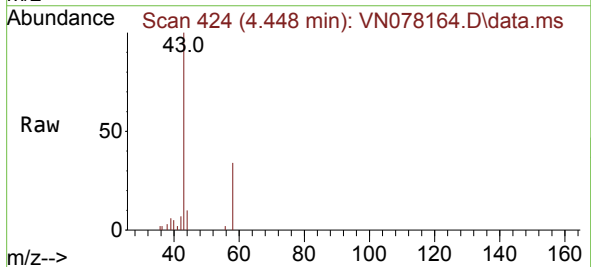
Instrument :
MSVOA_N
ClientSampleId :
PB153344TB

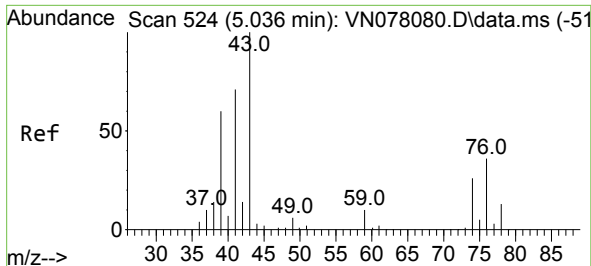
Tgt Ion: 59 Resp: 1157
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#



#16
Acetone
Concen: 16.944 ug/l
RT: 4.448 min Scan# 424
Delta R.T. 0.012 min
Lab File: VN078164.D
Acq: 12 Jun 2023 14:18

Tgt Ion: 43 Resp: 29938
Ion Ratio Lower Upper
43 100
58 34.4 28.0 42.0





#18

Methyl Acetate

Concen: 0.228 ug/l

RT: 5.042 min Scan# 51

Delta R.T. 0.006 min

Lab File: VN078164.D

Acq: 12 Jun 2023 14:18

Instrument :

MSVOA_N

ClientSampleId :

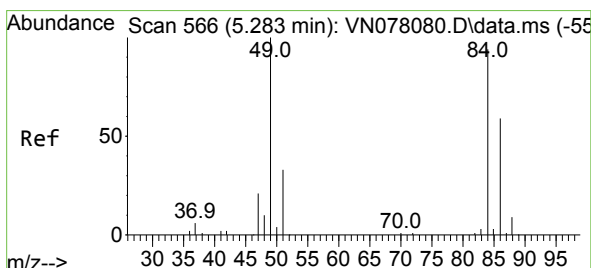
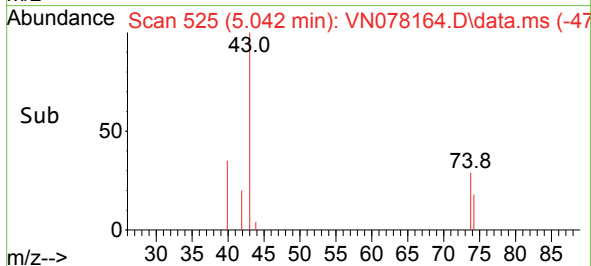
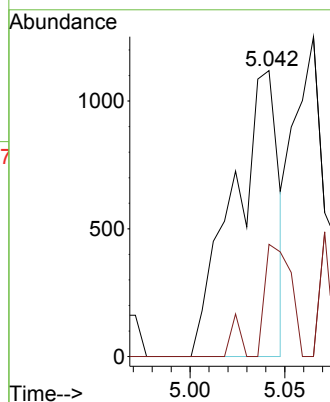
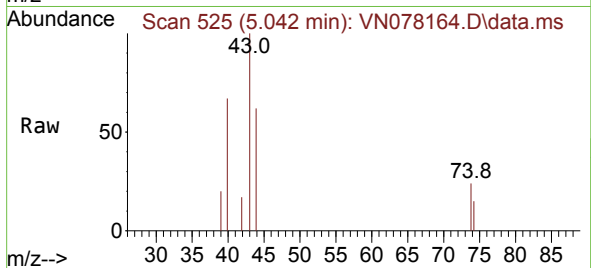
PB153344TB

Tgt Ion: 43 Resp: 1851

Ion Ratio Lower Upper

43 100

74 25.7 26.2 39.4#



#20

Methylene Chloride

Concen: 3.336 ug/l

RT: 5.277 min Scan# 565

Delta R.T. -0.006 min

Lab File: VN078164.D

Acq: 12 Jun 2023 14:18

Tgt Ion: 84 Resp: 19481

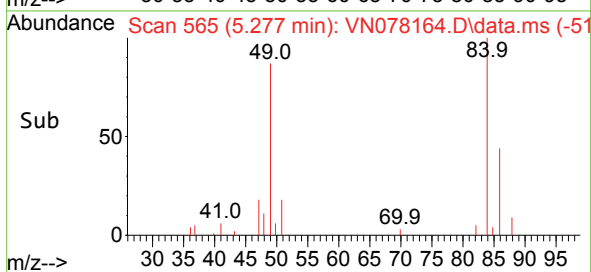
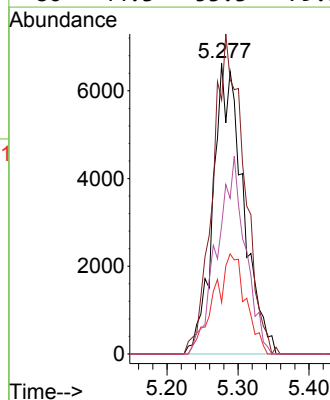
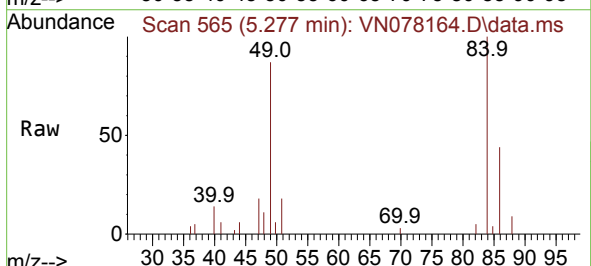
Ion Ratio Lower Upper

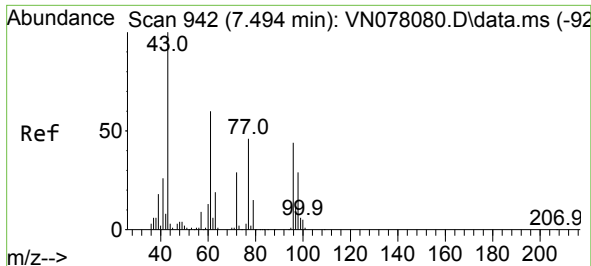
84 100

49 87.4 79.7 119.5

51 17.8 25.2 37.8#

86 44.3 53.3 79.9#

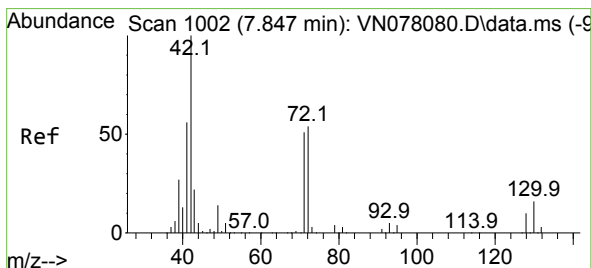
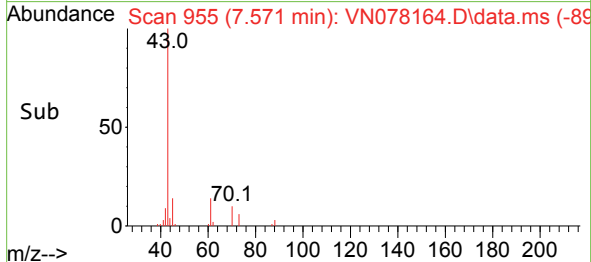
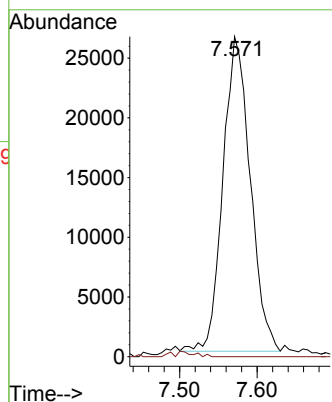
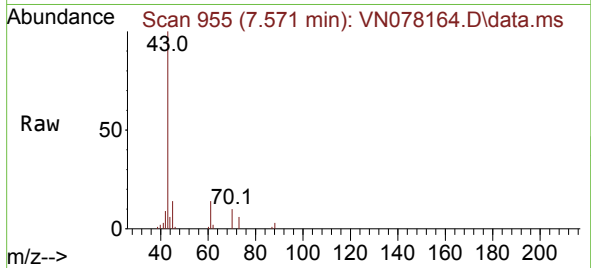




#25
2-Butanone
Concen: 23.768 ug/l
RT: 7.571 min Scan# 91
Delta R.T. 0.077 min
Lab File: VN078164.D
Acq: 12 Jun 2023 14:18

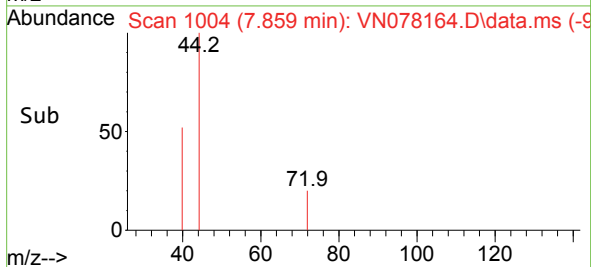
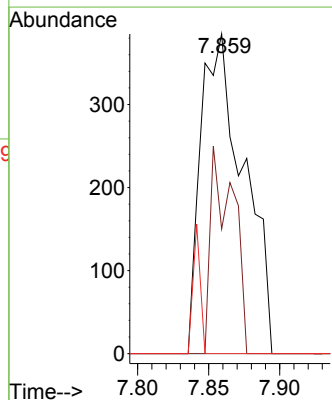
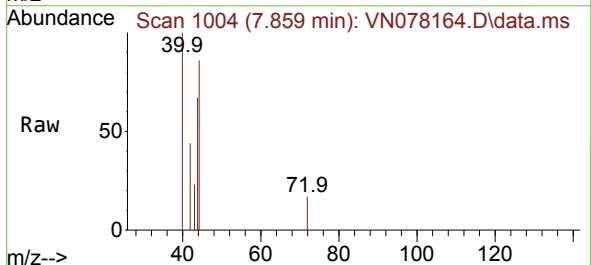
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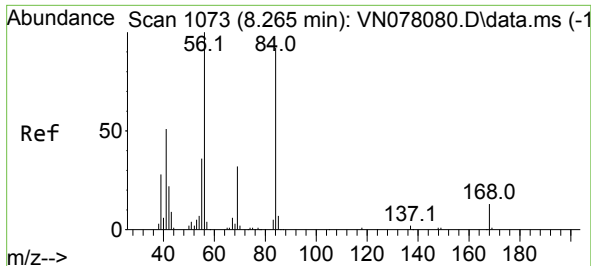
Tgt Ion: 43 Resp: 64580
Ion Ratio Lower Upper
43 100
72 0.0 30.2 45.2#



#29
Tetrahydrofuran
Concen: 0.446 ug/l
RT: 7.859 min Scan# 1004
Delta R.T. 0.012 min
Lab File: VN078164.D
Acq: 12 Jun 2023 14:18

Tgt Ion: 42 Resp: 810
Ion Ratio Lower Upper
42 100
72 34.2 49.8 74.6#
71 6.8 47.4 71.2#

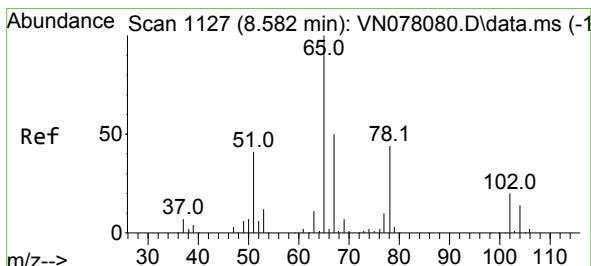
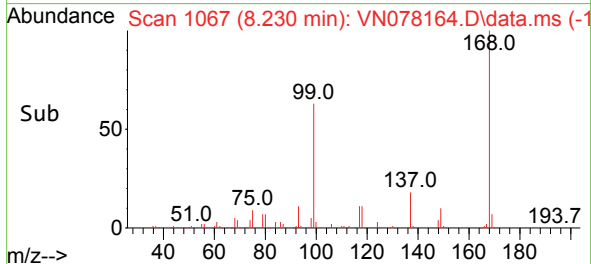
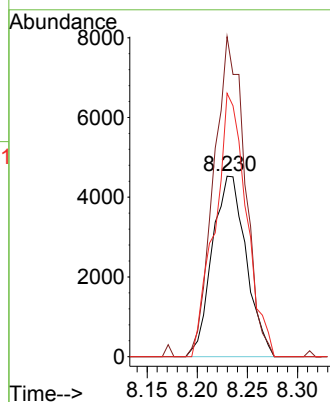
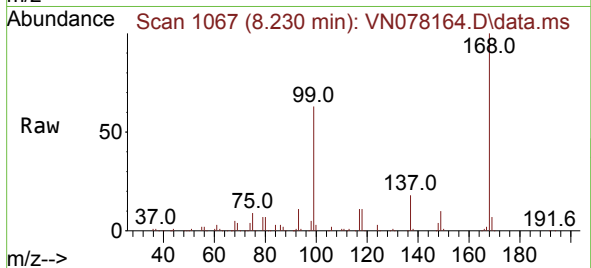




#31
Cyclohexane
Concen: 1.353 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.035 min
Lab File: VN078164.D
Acq: 12 Jun 2023 14:18

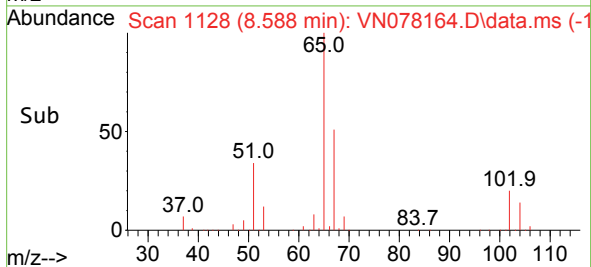
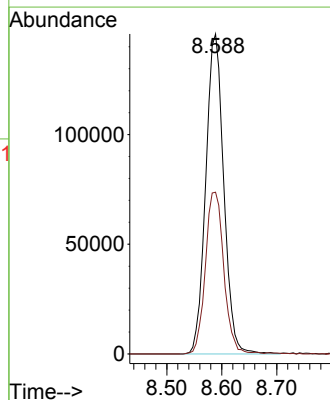
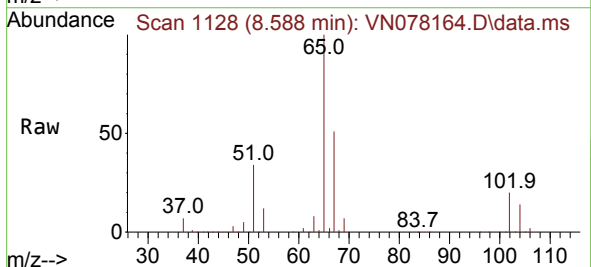
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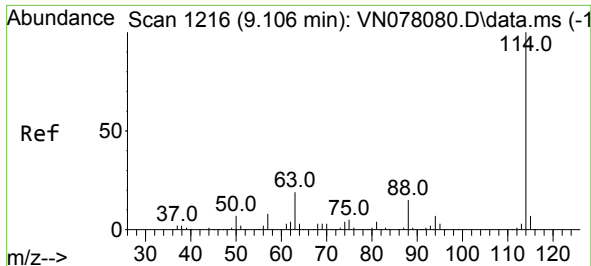
Tgt Ion: 56 Resp: 10652
Ion Ratio Lower Upper
56 100
69 177.2 26.8 40.2#
84 145.9 81.8 122.6#



#33
1,2-Dichloroethane-d4
Concen: 54.045 ug/l
RT: 8.588 min Scan# 1128
Delta R.T. 0.006 min
Lab File: VN078164.D
Acq: 12 Jun 2023 14:18

Tgt Ion: 65 Resp: 331760
Ion Ratio Lower Upper
65 100
67 51.6 0.0 106.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.112 min Scan# 1

Delta R.T. 0.006 min

Lab File: VN078164.D

Acq: 12 Jun 2023 14:18

Instrument :

MSVOA_N

ClientSampleId :

PB153344TB

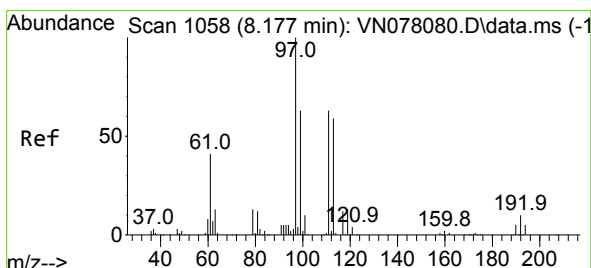
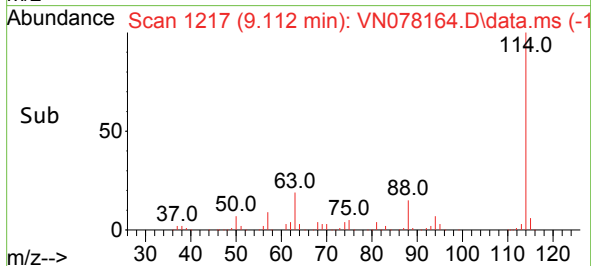
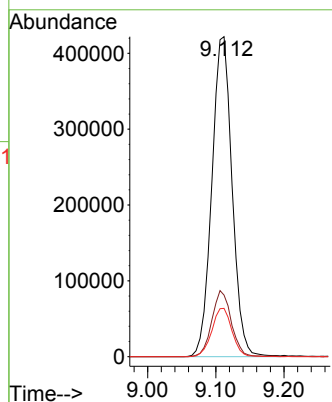
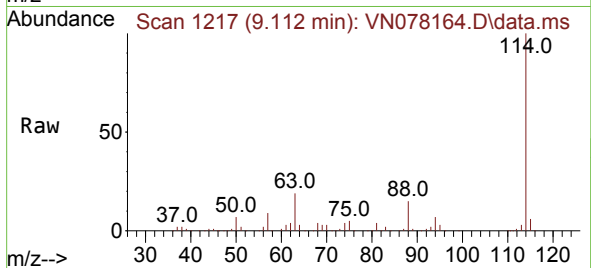
Tgt Ion:114 Resp: 872345

Ion Ratio Lower Upper

114 100

63 19.3 0.0 36.4

88 15.1 0.0 30.6



#35

Dibromofluoromethane

Concen: 52.892 ug/l

RT: 8.171 min Scan# 1057

Delta R.T. -0.006 min

Lab File: VN078164.D

Acq: 12 Jun 2023 14:18

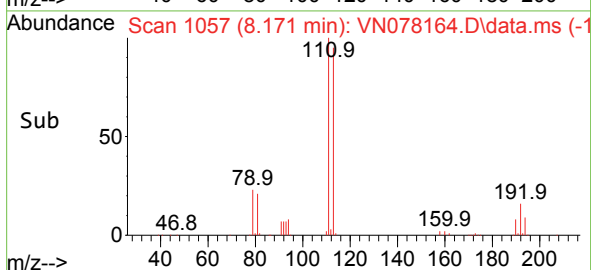
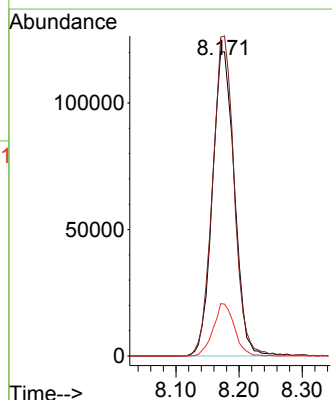
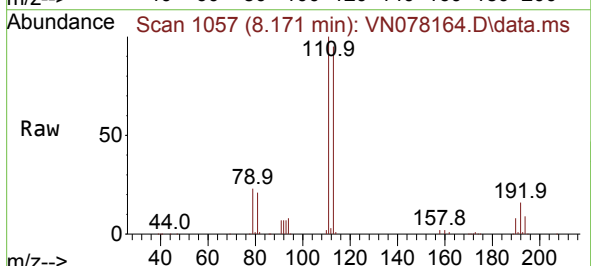
Tgt Ion:113 Resp: 291736

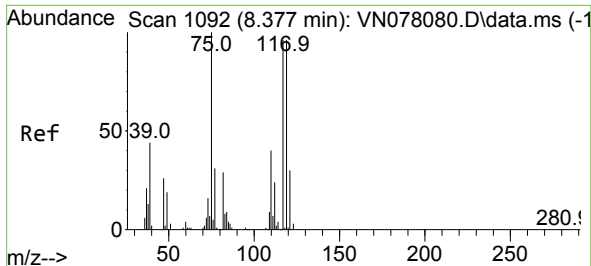
Ion Ratio Lower Upper

113 100

111 103.6 82.6 123.8

192 16.5 12.7 19.1

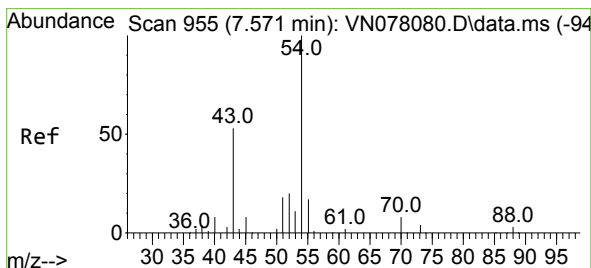
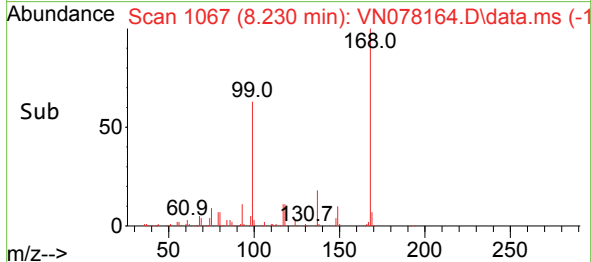
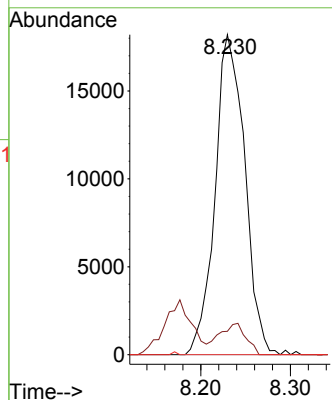
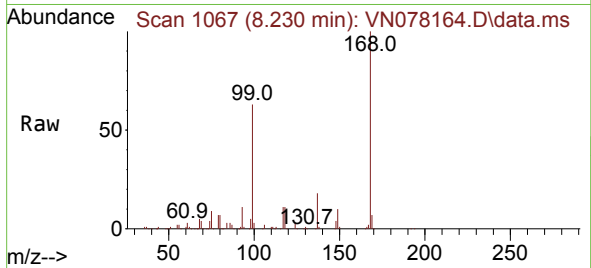




#36
1,1-Dichloropropene
Concen: 5.278 ug/l
RT: 8.230 min Scan# 1092
Delta R.T. -0.147 min
Lab File: VN078164.D
Acq: 12 Jun 2023 14:18

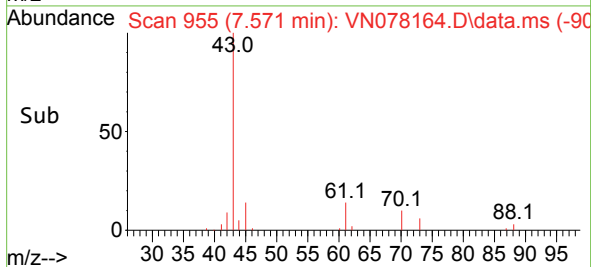
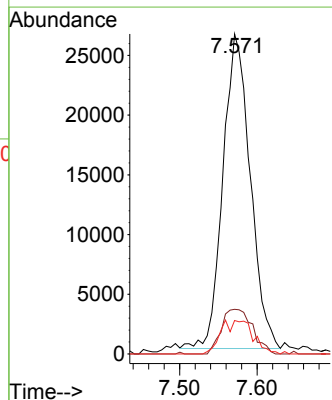
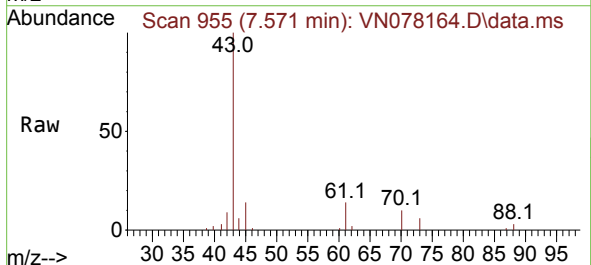
Instrument :
MSVOA_N
ClientSampleId :
PB153344TB

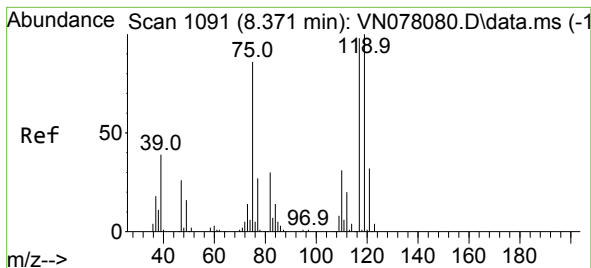
Tgt Ion: 75 Resp: 41756
Ion Ratio Lower Upper
75 100
110 8.9 19.1 57.3#
77 0.0 25.0 37.4#



#37
Ethyl Acetate
Concen: 10.449 ug/l
RT: 7.571 min Scan# 955
Delta R.T. 0.000 min
Lab File: VN078164.D
Acq: 12 Jun 2023 14:18

Tgt Ion: 43 Resp: 64580
Ion Ratio Lower Upper
43 100
61 16.1 13.2 19.8
70 4.6 11.3 16.9#





#38

Carbon Tetrachloride

Concen: 6.030 ug/l

RT: 8.230 min Scan# 1107

Delta R.T. -0.141 min

Lab File: VN078164.D

Acq: 12 Jun 2023 14:18

Instrument :

MSVOA_N

ClientSampleId :

PB153344TB

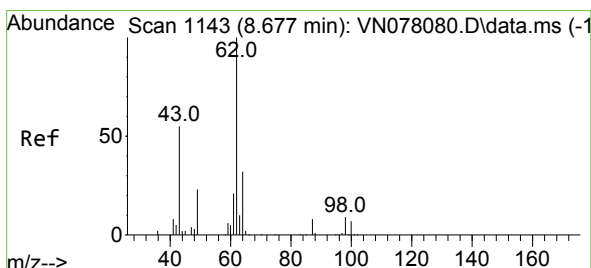
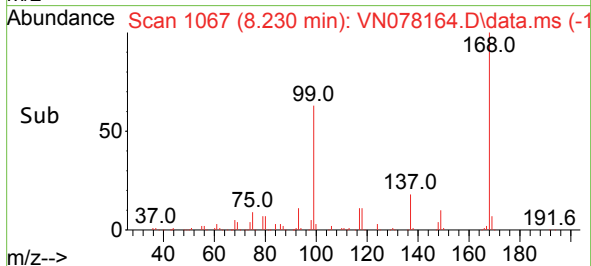
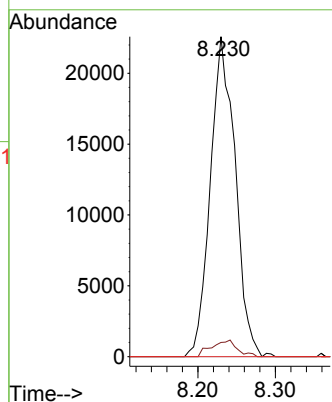
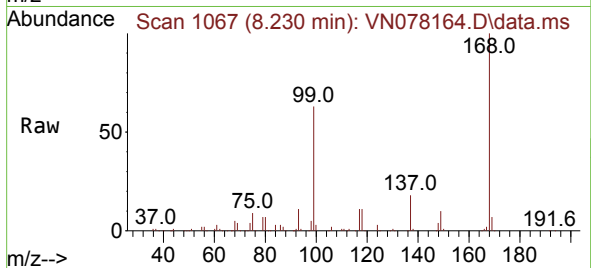
Tgt Ion:117 Resp: 50374

Ion Ratio Lower Upper

117 100

119 4.4 77.3 115.9#

121 0.0 23.3 34.9#



#42

1,2-Dichloroethane

Concen: 0.330 ug/l

RT: 8.700 min Scan# 1147

Delta R.T. 0.024 min

Lab File: VN078164.D

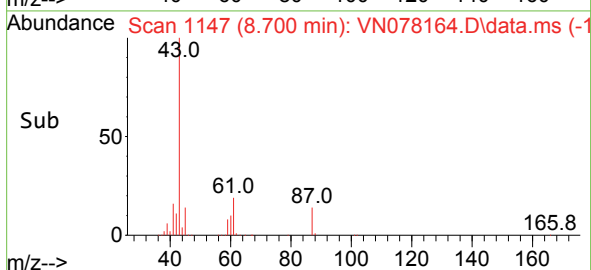
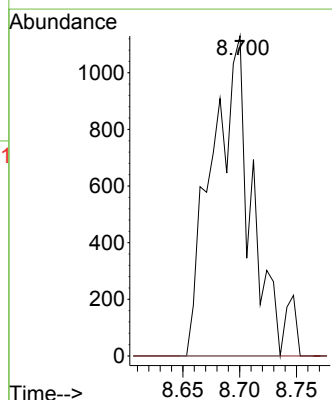
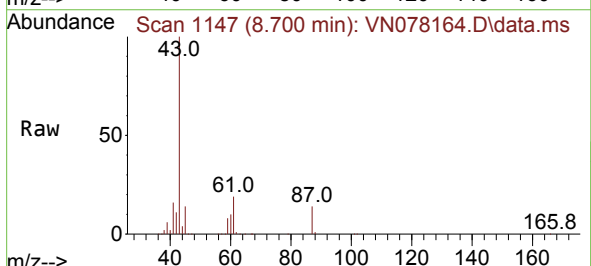
Acq: 12 Jun 2023 14:18

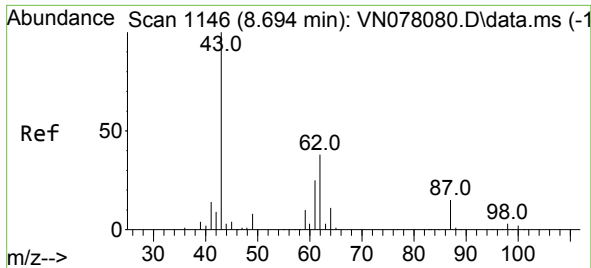
Tgt Ion: 62 Resp: 2672

Ion Ratio Lower Upper

62 100

98 0.0 0.0 19.8

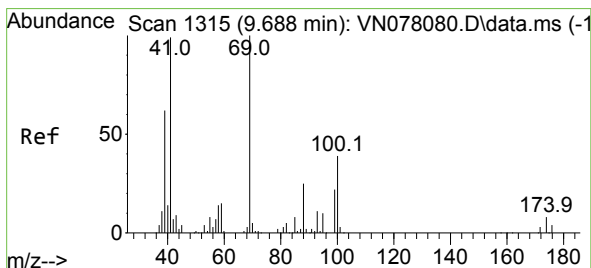
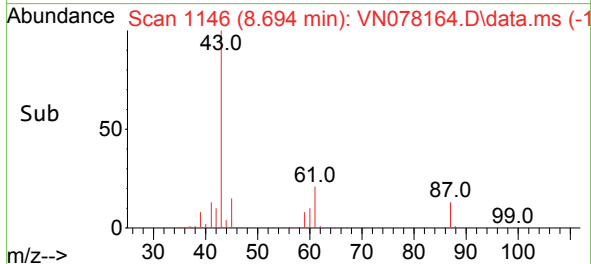
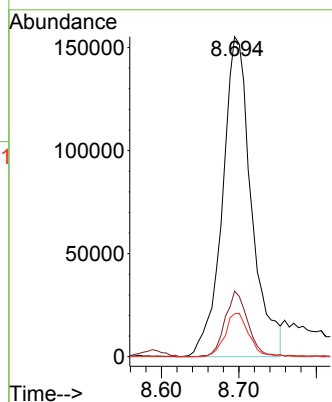
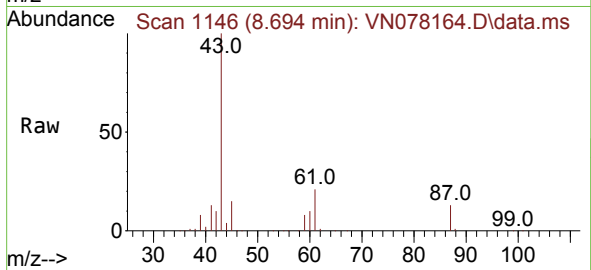




#43
Isopropyl Acetate
Concen: 34.199 ug/l
RT: 8.694 min Scan# 1146
Delta R.T. 0.000 min
Lab File: VN078164.D
Acq: 12 Jun 2023 14:18

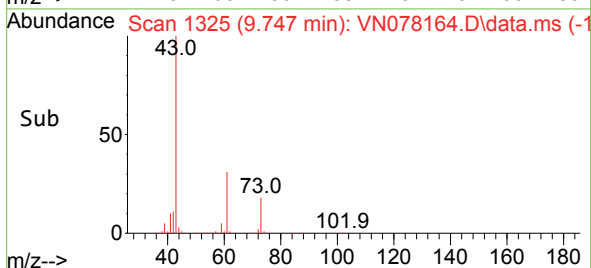
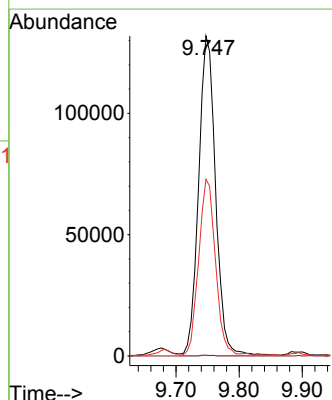
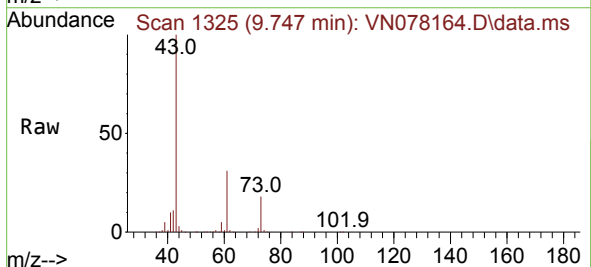
Instrument :
MSVOA_N
ClientSampleId :
PB153344TB

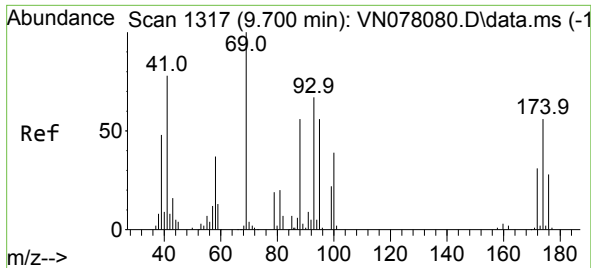
Tgt Ion: 43 Resp: 404239
Ion Ratio Lower Upper
43 100
61 16.5 24.7 37.1#
87 11.2 14.6 21.8#



#48
Methyl methacrylate
Concen: 49.393 ug/l
RT: 9.747 min Scan# 1325
Delta R.T. 0.059 min
Lab File: VN078164.D
Acq: 12 Jun 2023 14:18

Tgt Ion: 41 Resp: 245006
Ion Ratio Lower Upper
41 100
69 0.2 90.4 135.6#
39 54.0 54.6 81.8#





#49

1,4-Dioxane

Concen: 0.576 ug/l

RT: 9.694 min Scan# 11

Delta R.T. -0.006 min

Lab File: VN078164.D

Acq: 12 Jun 2023 14:18

Instrument :

MSVOA_N

ClientSampleId :

PB153344TB

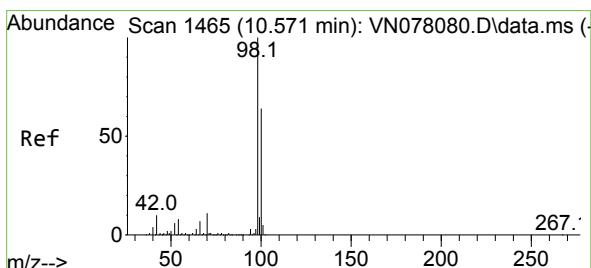
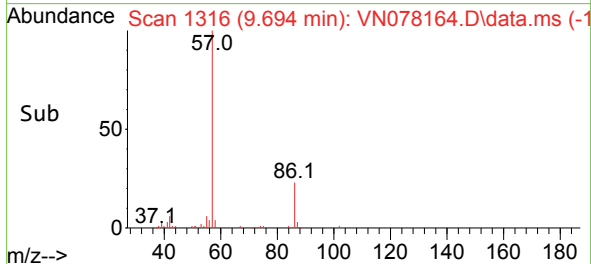
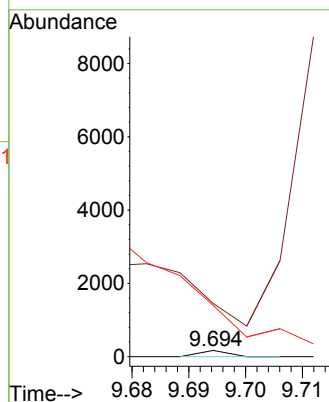
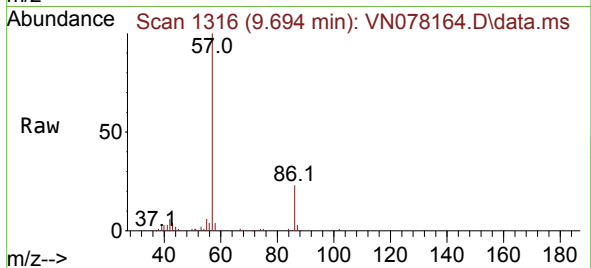
Tgt Ion: 88 Resp: 60

Ion Ratio Lower Upper

88 100

43 0.0 17.0 25.6#

58 0.0 47.0 70.4#



#50

Toluene-d8

Concen: 50.081 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. 0.000 min

Lab File: VN078164.D

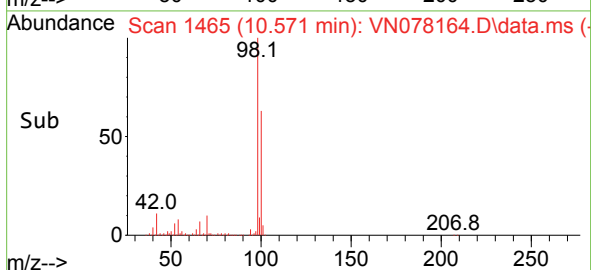
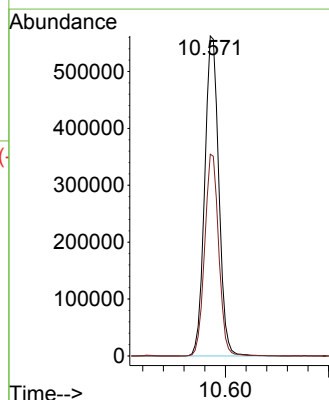
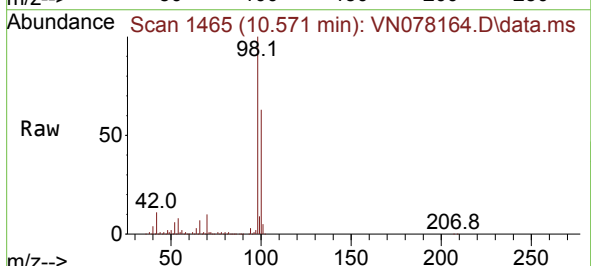
Acq: 12 Jun 2023 14:18

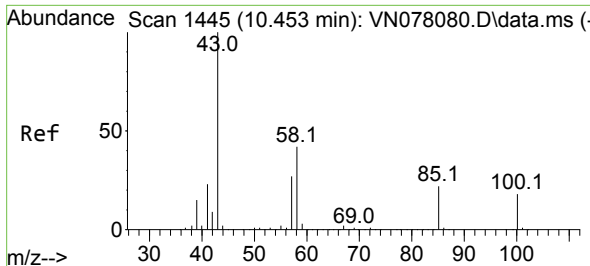
Tgt Ion: 98 Resp: 1064907

Ion Ratio Lower Upper

98 100

100 62.7 52.0 78.0

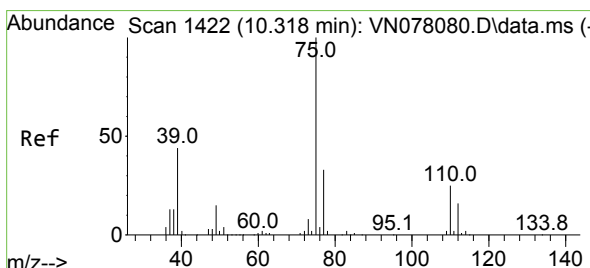
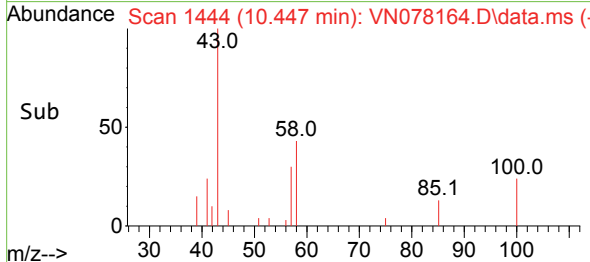
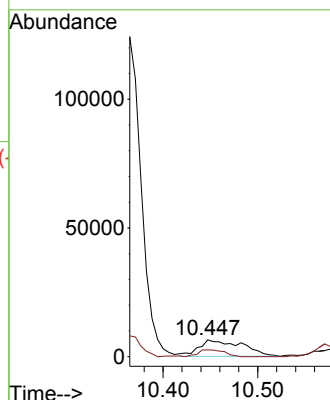
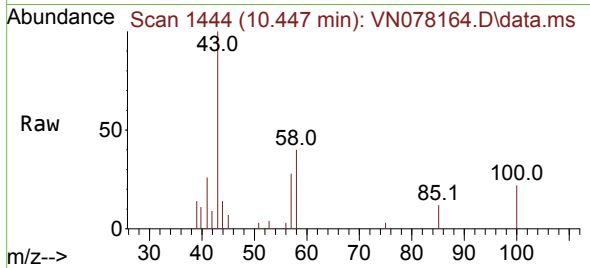




#51
4-Methyl-2-Pentanone
Concen: 3.284 ug/l
RT: 10.447 min Scan# 1445
Delta R.T. -0.006 min
Lab File: VN078164.D
Acq: 12 Jun 2023 14:18

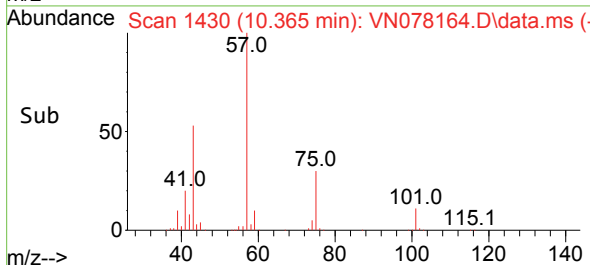
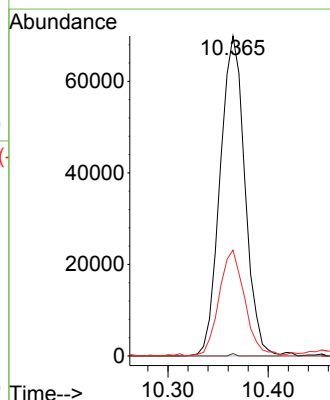
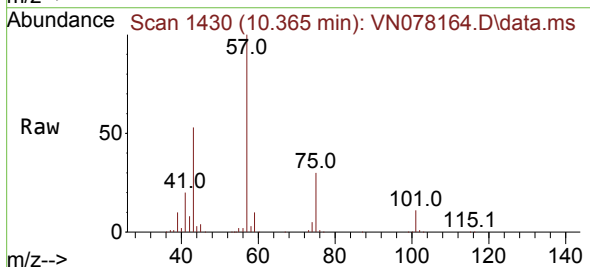
Instrument :
MSVOA_N
ClientSampleId :
PB153344TB

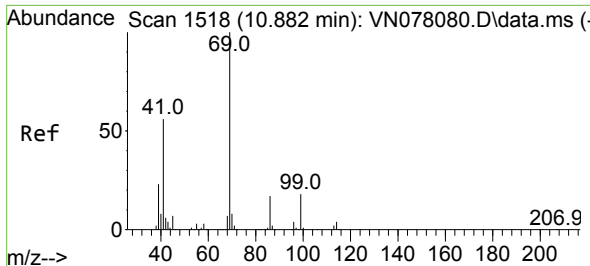
Tgt Ion: 43 Resp: 20439
Ion Ratio Lower Upper
43 100
58 25.1 36.6 54.8#



#54
cis-1,3-Dichloropropene
Concen: 12.962 ug/l
RT: 10.365 min Scan# 1430
Delta R.T. 0.047 min
Lab File: VN078164.D
Acq: 12 Jun 2023 14:18

Tgt Ion: 75 Resp: 119980
Ion Ratio Lower Upper
75 100
77 0.7 26.1 39.1#
39 32.8 31.6 47.4

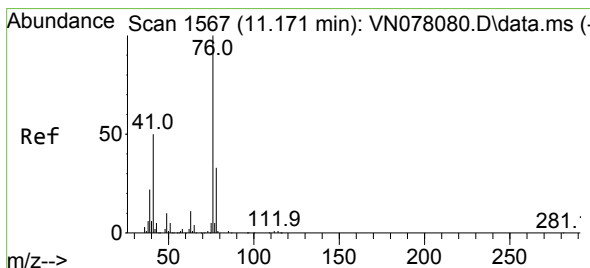
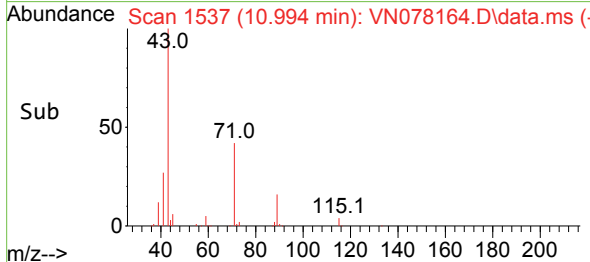
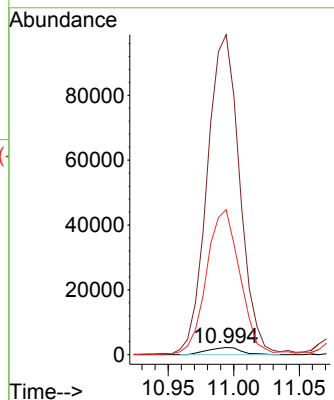
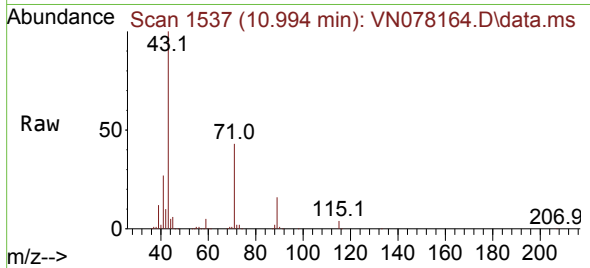




#56
Ethyl methacrylate
Concen: 0.476 ug/l
RT: 10.994 min Scan# 1537
Delta R.T. 0.112 min
Lab File: VN078164.D
Acq: 12 Jun 2023 14:18

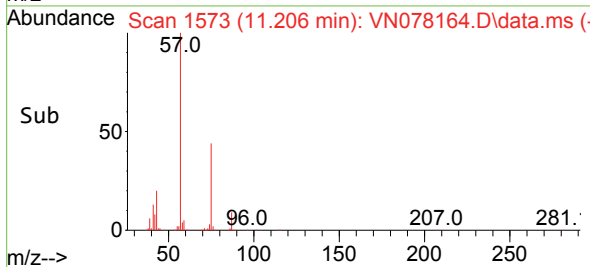
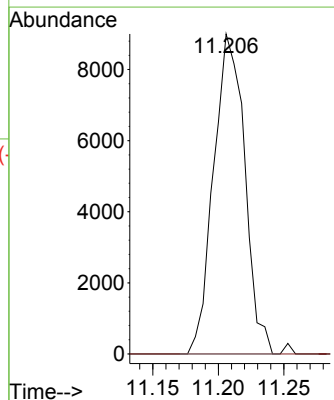
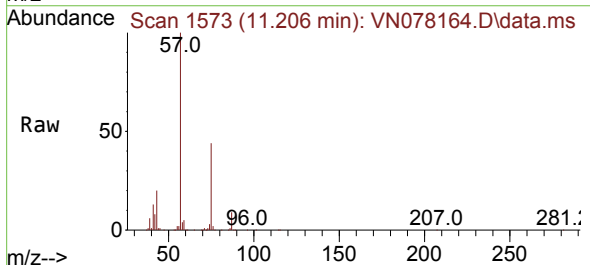
Instrument :
MSVOA_N
ClientSampleId :
PB153344TB

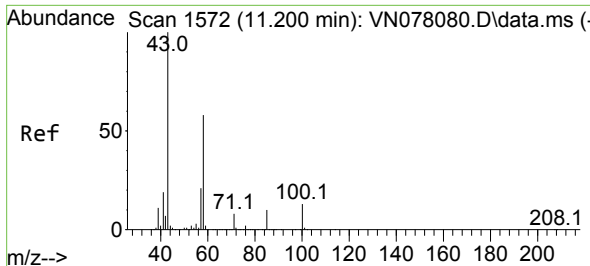
Tgt Ion: 69 Resp: 3914
Ion Ratio Lower Upper
69 100
41 4384.5 39.6 59.4#
39 2047.0 28.6 43.0#



#57
1,3-Dichloropropane
Concen: 1.559 ug/l
RT: 11.206 min Scan# 1573
Delta R.T. 0.035 min
Lab File: VN078164.D
Acq: 12 Jun 2023 14:18

Tgt Ion: 76 Resp: 14850
Ion Ratio Lower Upper
76 100
78 0.0 26.1 39.1#

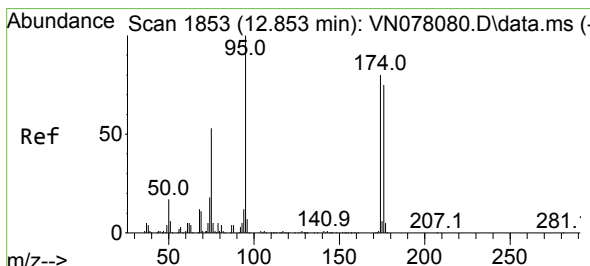
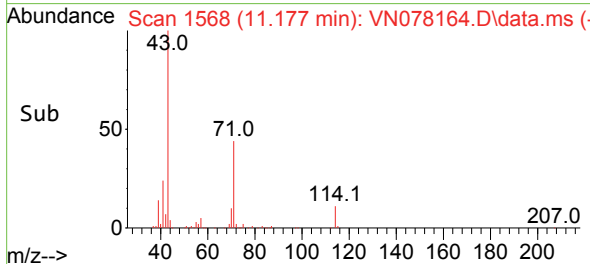
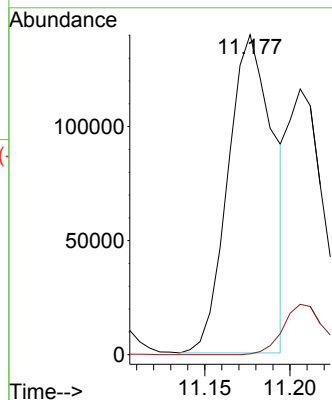
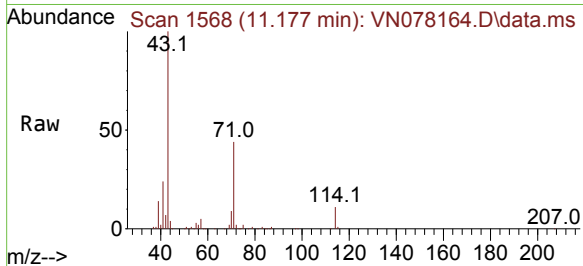




#59
2-Hexanone
Concen: 59.843 ug/l
RT: 11.177 min Scan# 11177
Delta R.T. -0.023 min
Lab File: VN078164.D
Acq: 12 Jun 2023 14:18

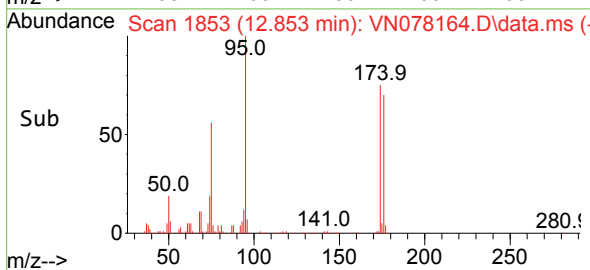
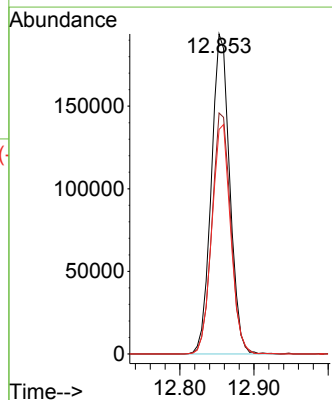
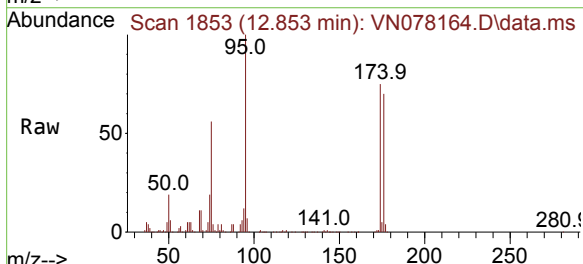
Instrument :
MSVOA_N
ClientSampleId :
PB153344TB

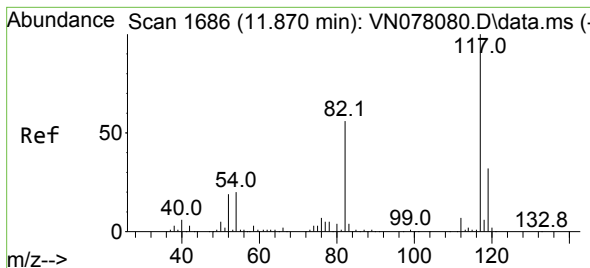
Tgt Ion: 43 Resp: 259355
Ion Ratio Lower Upper
43 100
58 0.0 31.7 95.1#



#62
4-Bromofluorobenzene
Concen: 50.548 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.000 min
Lab File: VN078164.D
Acq: 12 Jun 2023 14:18

Tgt Ion: 95 Resp: 334143
Ion Ratio Lower Upper
95 100
174 76.8 0.0 143.8
176 73.4 0.0 135.8

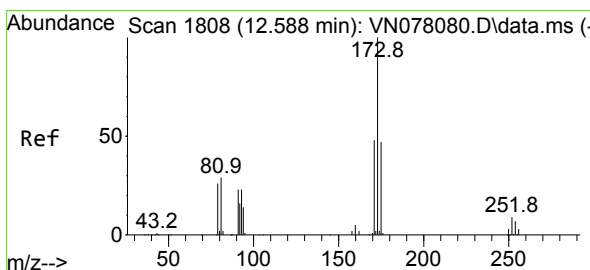
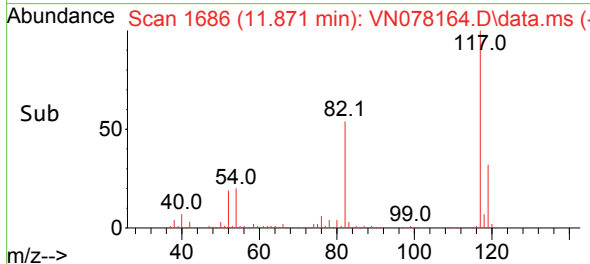
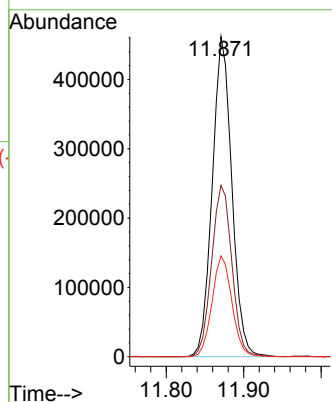
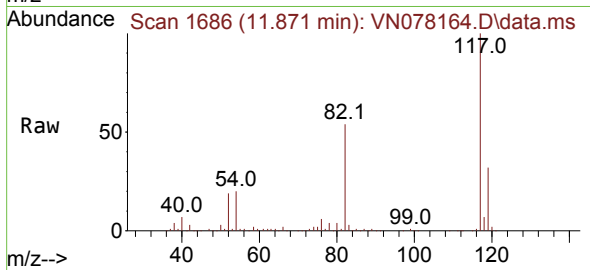




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN078164.D
Acq: 12 Jun 2023 14:18

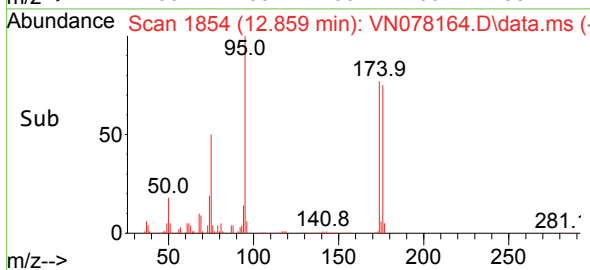
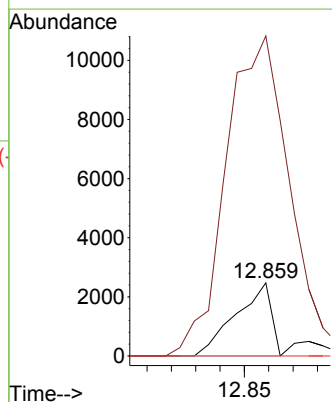
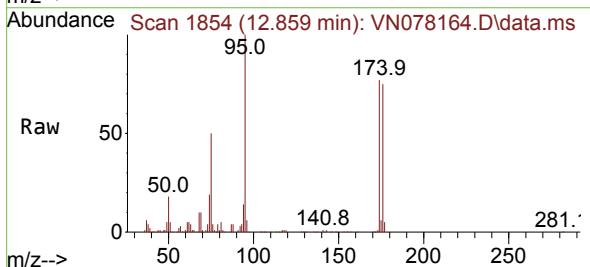
Instrument :
MSVOA_N
ClientSampleId :
PB153344TB

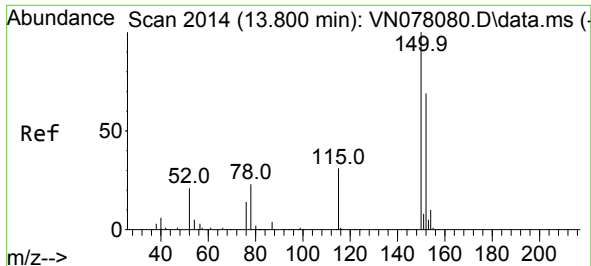
Tgt Ion:117 Resp: 811312
Ion Ratio Lower Upper
117 100
82 53.6 44.0 66.0
119 31.5 25.6 38.4



#71
Bromoform
Concen: 0.610 ug/l
RT: 12.859 min Scan# 1854
Delta R.T. 0.271 min
Lab File: VN078164.D
Acq: 12 Jun 2023 14:18

Tgt Ion:173 Resp: 2514
Ion Ratio Lower Upper
173 100
175 658.2 24.3 73.0#
254 0.0 0.0 0.0

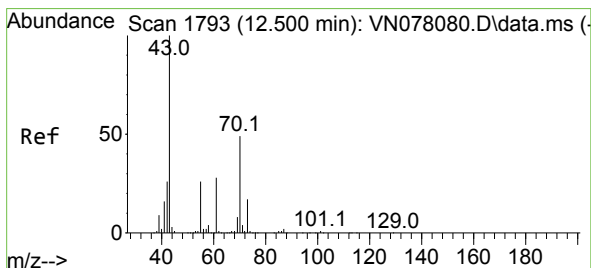
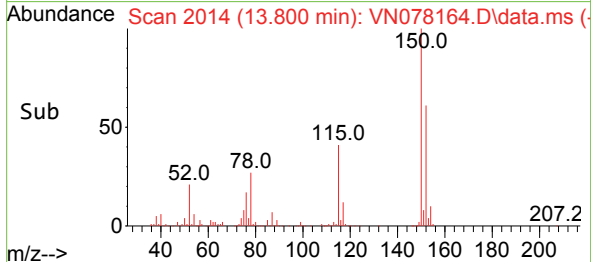
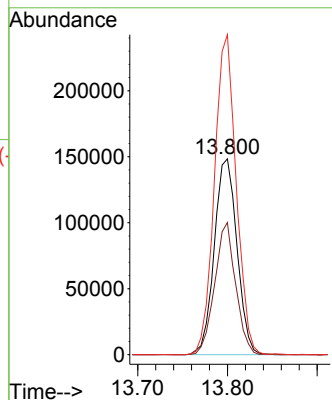
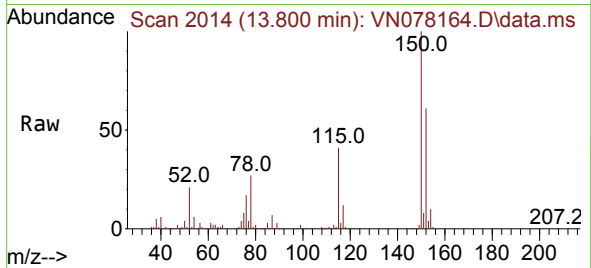




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.800 min Scan# 20
Delta R.T. 0.000 min
Lab File: VN078164.D
Acq: 12 Jun 2023 14:18

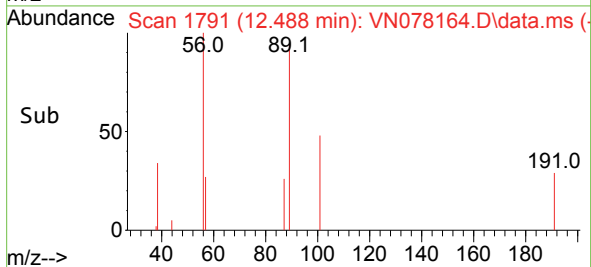
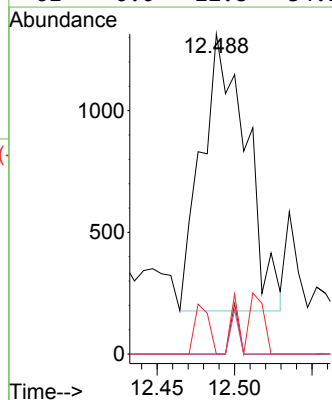
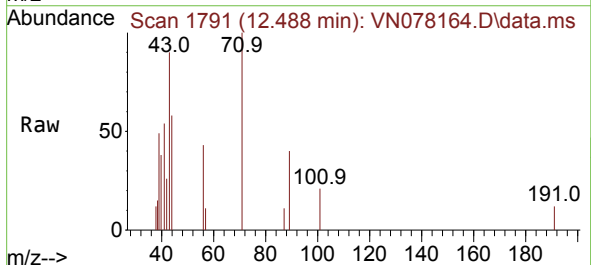
Instrument :
MSVOA_N
ClientSampleId :
PB153344TB

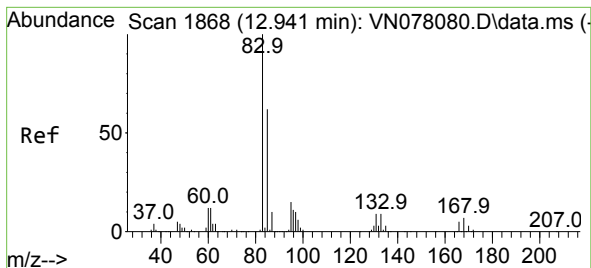
Tgt Ion:152 Resp: 260581
Ion Ratio Lower Upper
152 100
115 62.4 32.3 96.8
150 156.5 0.0 355.8



#74
N-ethyl acetate
Concen: 0.281 ug/l
RT: 12.488 min Scan# 1791
Delta R.T. -0.012 min
Lab File: VN078164.D
Acq: 12 Jun 2023 14:18

Tgt Ion: 43 Resp: 2282
Ion Ratio Lower Upper
43 100
70 0.0 43.4 65.2#
55 5.8 21.4 32.0#
61 0.0 22.8 34.2#





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.953 min Scan# 1868

Delta R.T. 0.012 min

Lab File: VN078164.D

Acq: 12 Jun 2023 14:18

Instrument :

MSVOA_N

ClientSampleId :

PB153344TB

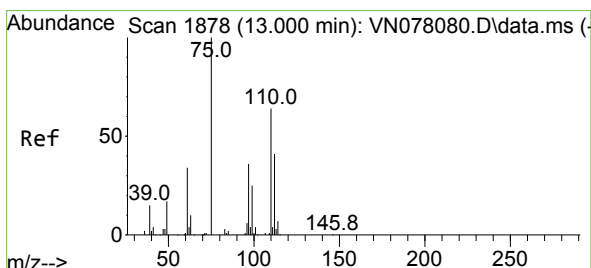
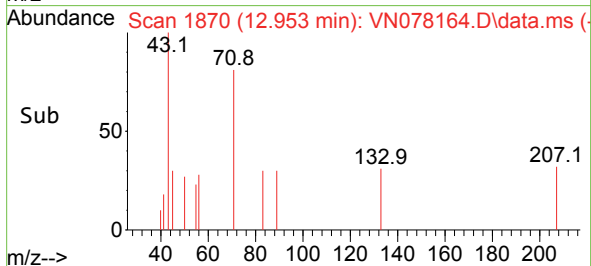
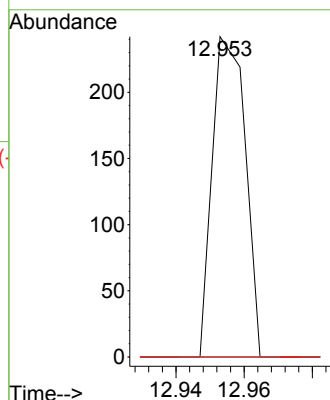
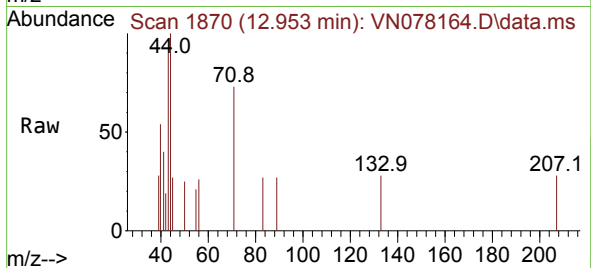
Tgt Ion: 83 Resp: 163

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: 29.130 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. -0.147 min

Lab File: VN078164.D

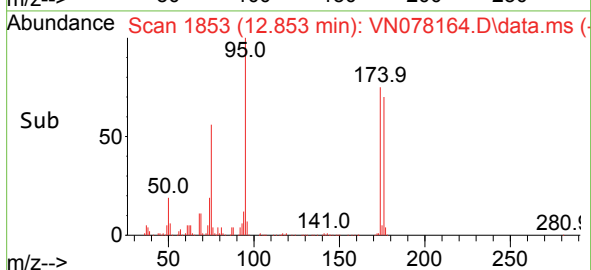
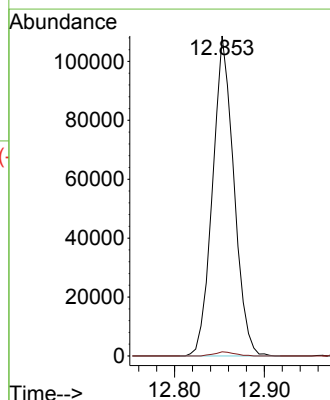
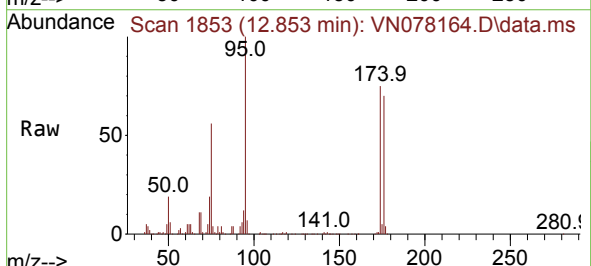
Acq: 12 Jun 2023 14:18

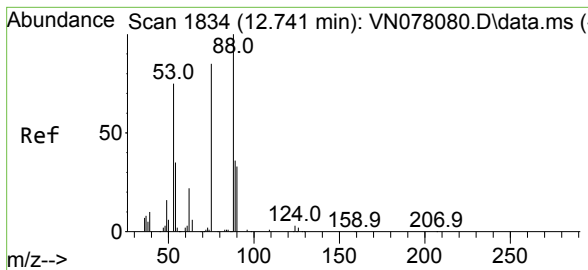
Tgt Ion: 75 Resp: 179446

Ion Ratio Lower Upper

75 100

77 1.2 84.5 253.5#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 89.496 ug/l
 RT: 12.853 min Scan# 11
 Delta R.T. 0.112 min
 Lab File: VN078164.D
 Acq: 12 Jun 2023 14:18

Instrument :
 MSVOA_N
 ClientSampleId :
 PB153344TB

Tgt Ion: 75 Resp: 179446
 Ion Ratio Lower Upper
 75 100
 53 0.0 67.4 101.2#
 89 0.1 38.8 58.2#

