

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060823\
 Data File : VN078125.D
 Acq On : 08 Jun 2023 13:24
 Operator : JC\MD
 Sample : 03092-05
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-2

Quant Time: Jun 09 01:25:56 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)

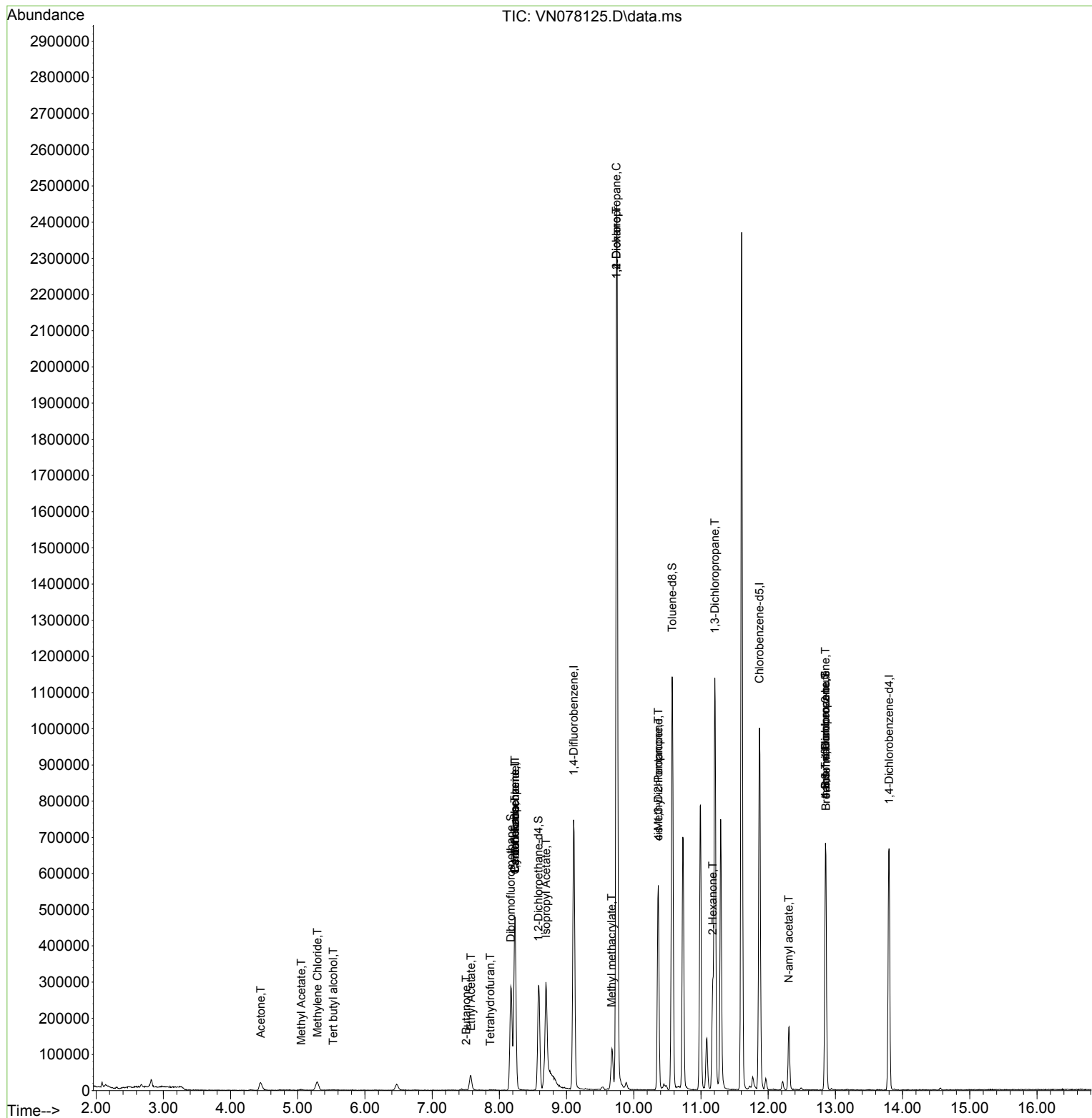
Internal Standards						
1) Pentafluorobenzene	8.230	168	352478	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	664679	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	616994	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	180123	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	245043	52.141	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 104.280%			
35) Dibromofluoromethane	8.171	113	213628	50.831	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.660%			
50) Toluene-d8	10.571	98	833556	51.449	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 102.900%			
62) 4-Bromofluorobenzene	12.853	95	244671	48.577	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 97.160%			
Target Compounds						Qvalue
3) Chloromethane	2.371	50	1003	Below Cal		94
11) Tert butyl alcohol	5.530	59	359	0.553 ug/l #		72
16) Acetone	4.447	43	41471	30.657 ug/l #		87
18) Methyl Acetate	5.053	43	4389	0.705 ug/l		90
20) Methylene Chloride	5.294	84	18436	4.124 ug/l		92
25) 2-Butanone	7.506	43	3258	1.566 ug/l #		72
29) Tetrahydrofuran	7.865	42	856	0.616 ug/l #		37
31) Cyclohexane	8.230	56	8542	1.417 ug/l #		28
36) 1,1-Dichloropropene	8.235	75	28937	4.800 ug/l #		48
37) Ethyl Acetate	7.577	43	60375	12.820 ug/l		98
38) Carbon Tetrachloride	8.235	117	38176	5.998 ug/l #		17
43) Isopropyl Acetate	8.694	43	411969	45.743 ug/l #		74
45) 1,2-Dichloropropane	9.741	63	3343	0.747 ug/l #		45
48) Methyl methacrylate	9.671	41	7242	1.916 ug/l #		28
49) 1,4-Dioxane	9.741	88	441	5.552 ug/l #		1
51) 4-Methyl-2-Pentanone	10.365	43	205368	43.303 ug/l #		41
54) cis-1,3-Dichloropropene	10.365	75	108694	15.412 ug/l #		66
57) 1,3-Dichloropropane	11.206	76	12125	1.671 ug/l #		44
59) 2-Hexanone	11.176	43	229359	69.456 ug/l #		19
71) Bromoform	12.859	173	1552	0.495 ug/l #		1
74) N-amyl acetate	12.306	43	56111	10.004 ug/l #		44
75) 1,1,2,2-Tetrachloroethane	12.953	83	78	Below Cal	#	58
76) 1,2,3-Trichloropropane	12.853	75	129223	30.347 ug/l #		1
81) trans-1,4-Dichloro-2-b...	12.853	75	129223	93.236 ug/l #		15

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.230 min Scan# 1

Delta R.T. -0.005 min

Lab File: VN078125.D

Acq: 08 Jun 2023 13:24

Instrument :

MSVOA_N

ClientSampleId :

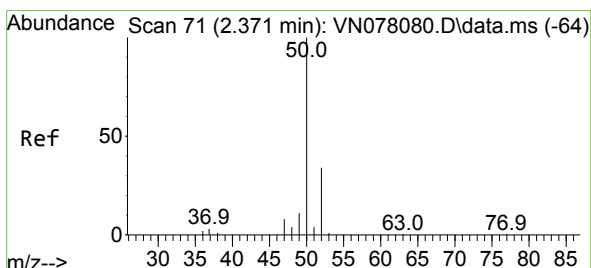
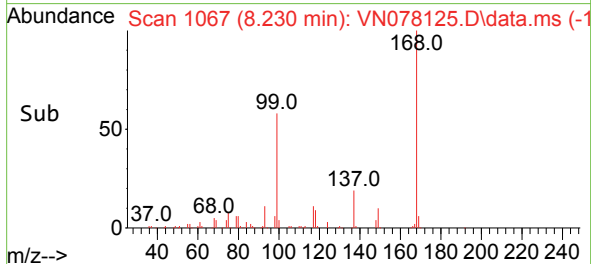
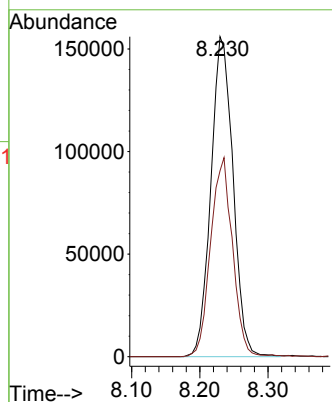
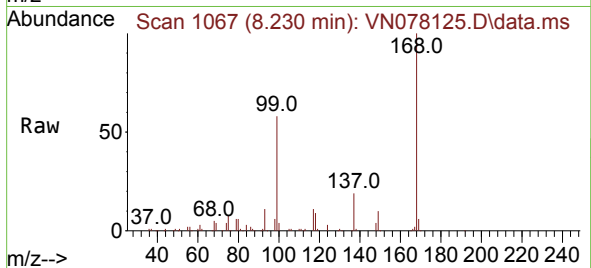
TP-2

Tgt Ion:168 Resp: 352478

Ion Ratio Lower Upper

168 100

99 58.1 53.0 79.6



#3

Chloromethane

Concen: Below Cal

RT: 2.371 min Scan# 71

Delta R.T. 0.000 min

Lab File: VN078125.D

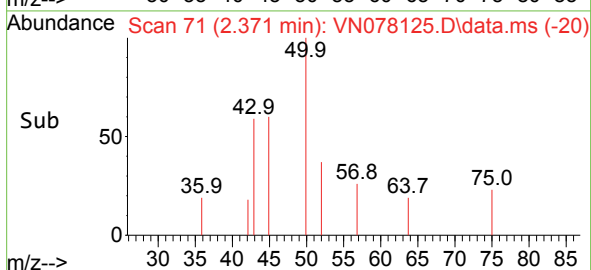
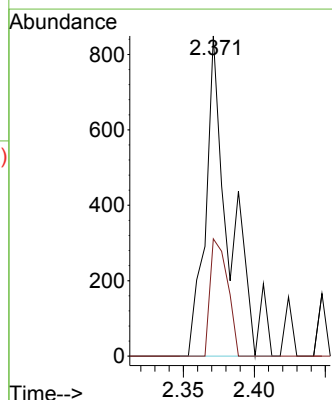
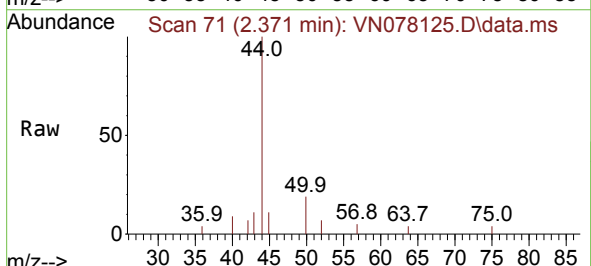
Acq: 08 Jun 2023 13:24

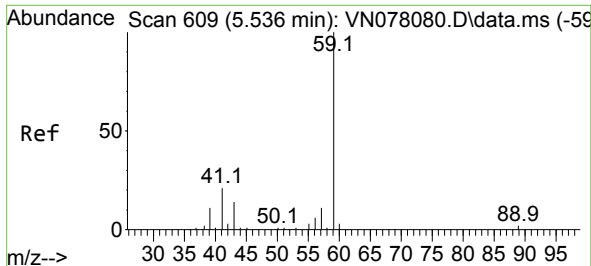
Tgt Ion: 50 Resp: 1003

Ion Ratio Lower Upper

50 100

52 36.6 26.5 39.7

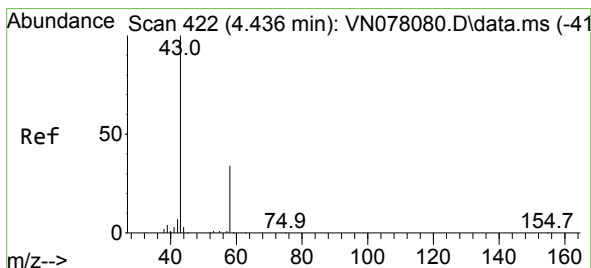
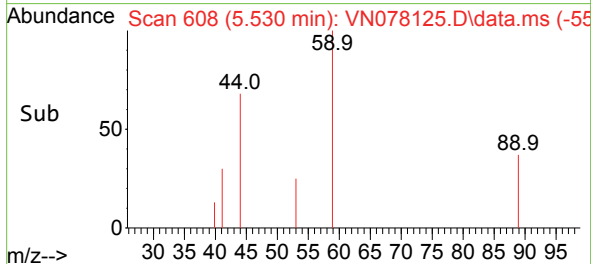
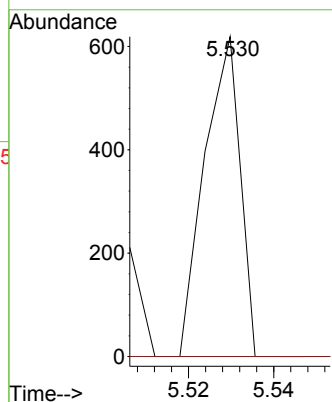
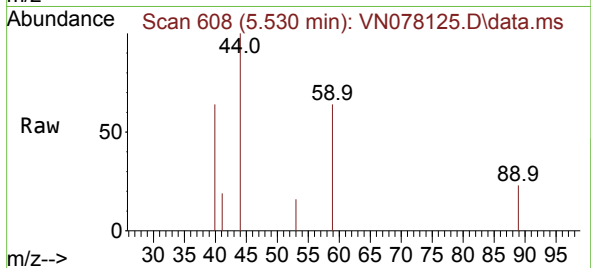




#11
Tert butyl alcohol
Concen: 0.553 ug/l
RT: 5.530 min Scan# 609
Delta R.T. -0.006 min
Lab File: VN078125.D
Acq: 08 Jun 2023 13:24

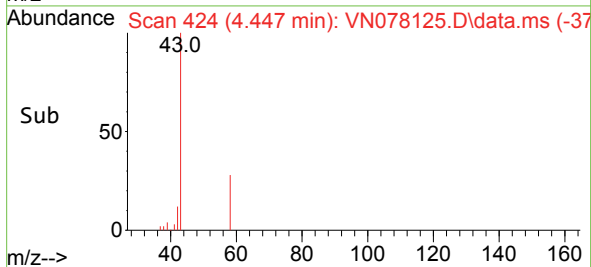
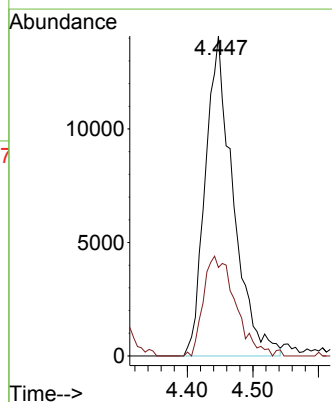
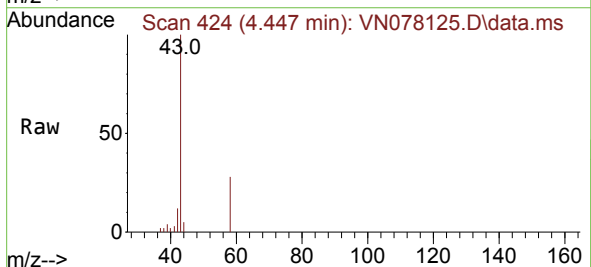
Instrument :
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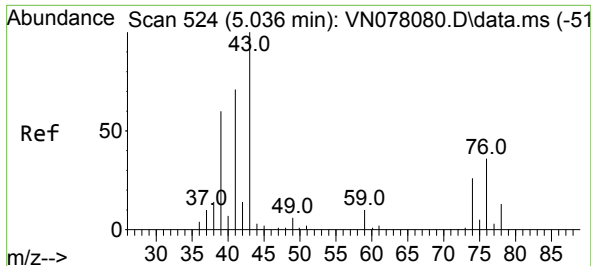
Tgt Ion: 59 Resp: 359
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#



#16
Acetone
Concen: 30.657 ug/l
RT: 4.447 min Scan# 424
Delta R.T. 0.012 min
Lab File: VN078125.D
Acq: 08 Jun 2023 13:24

Tgt Ion: 43 Resp: 41471
Ion Ratio Lower Upper
43 100
58 27.7 28.0 42.0#

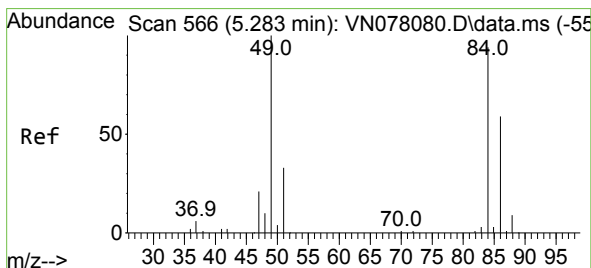
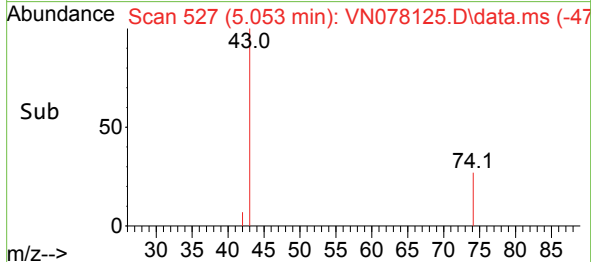
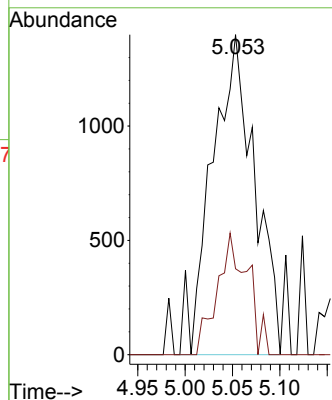
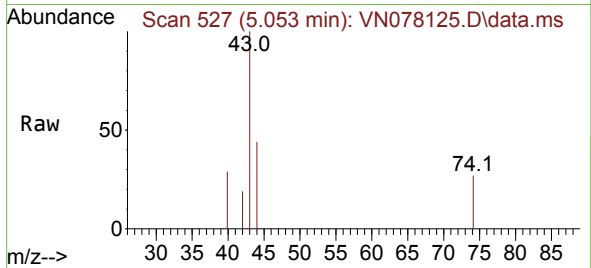




#18
Methyl Acetate
Concen: 0.705 ug/l
RT: 5.053 min Scan# 51
Delta R.T. 0.018 min
Lab File: VN078125.D
Acq: 08 Jun 2023 13:24

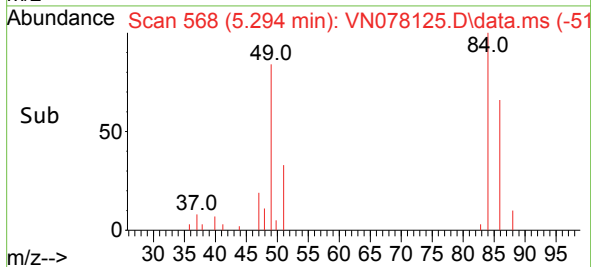
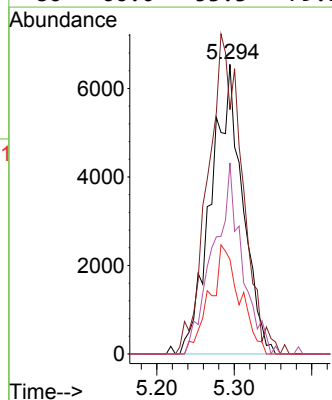
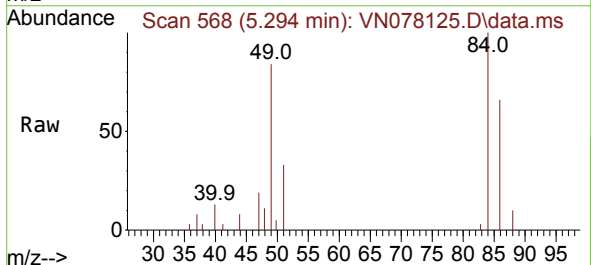
Instrument :
MSVOA_N
ClientSampleId :
TP-2

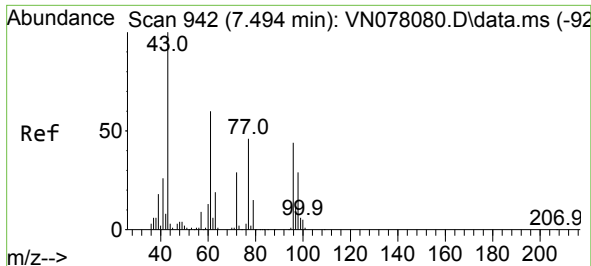
Tgt Ion: 43 Resp: 4389
Ion Ratio Lower Upper
43 100
74 27.2 26.2 39.4



#20
Methylene Chloride
Concen: 4.124 ug/l
RT: 5.294 min Scan# 568
Delta R.T. 0.012 min
Lab File: VN078125.D
Acq: 08 Jun 2023 13:24

Tgt Ion: 84 Resp: 18436
Ion Ratio Lower Upper
84 100
49 84.4 79.7 119.5
51 32.6 25.2 37.8
86 66.0 53.3 79.9

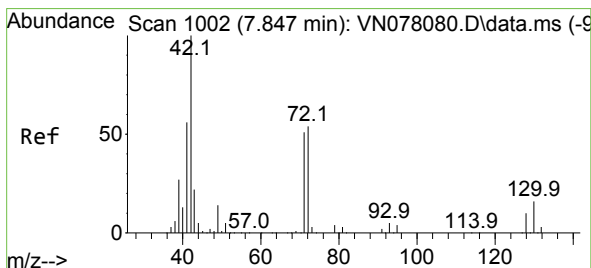
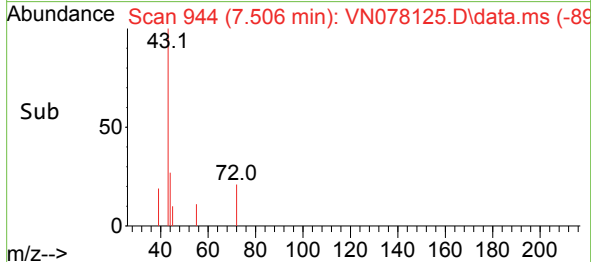
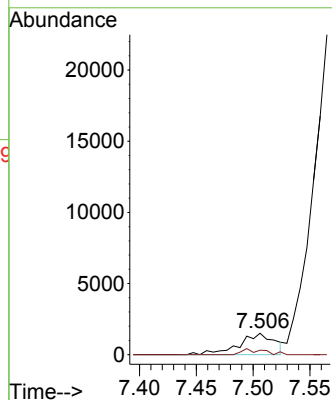
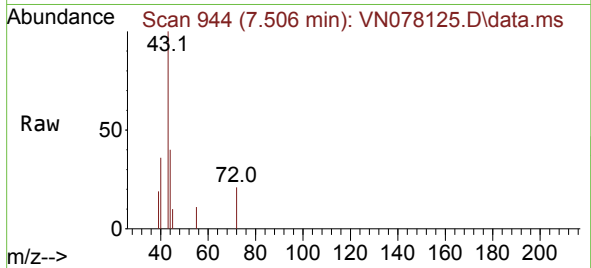




#25
2-Butanone
Concen: 1.566 ug/l
RT: 7.506 min Scan# 94
Delta R.T. 0.012 min
Lab File: VN078125.D
Acq: 08 Jun 2023 13:24

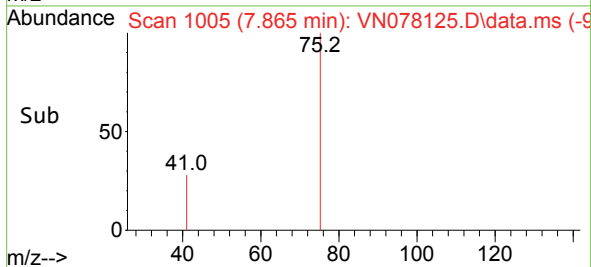
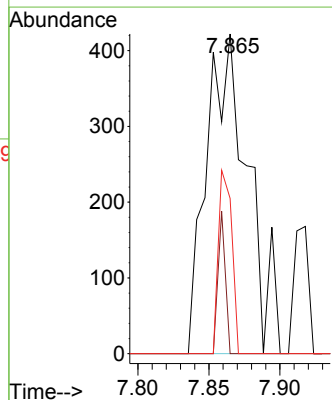
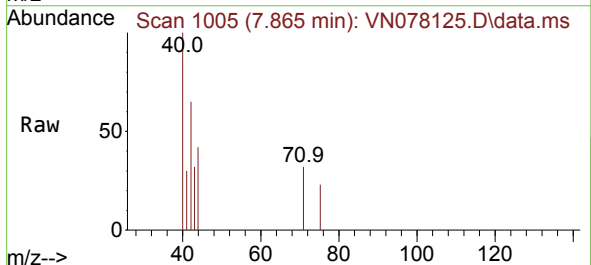
Instrument :
MSVOA_N
ClientSampleId :
TP-2

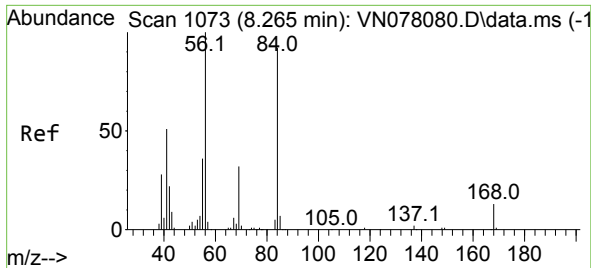
Tgt Ion: 43 Resp: 3258
Ion Ratio Lower Upper
43 100
72 21.1 30.2 45.2#



#29
Tetrahydrofuran
Concen: 0.616 ug/l
RT: 7.865 min Scan# 1005
Delta R.T. 0.018 min
Lab File: VN078125.D
Acq: 08 Jun 2023 13:24

Tgt Ion: 42 Resp: 856
Ion Ratio Lower Upper
42 100
72 7.7 49.8 74.6#
71 18.5 47.4 71.2#

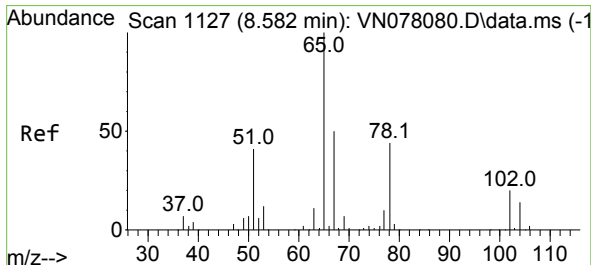
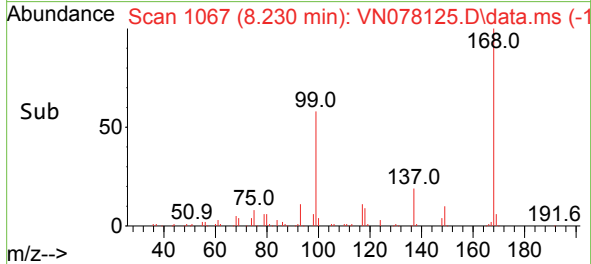
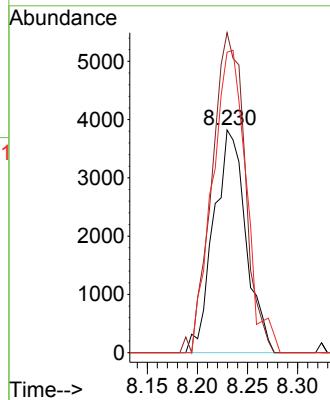
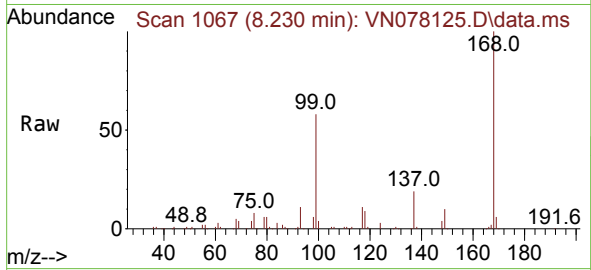




#31
Cyclohexane
Concen: 1.417 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.035 min
Lab File: VN078125.D
Acq: 08 Jun 2023 13:24

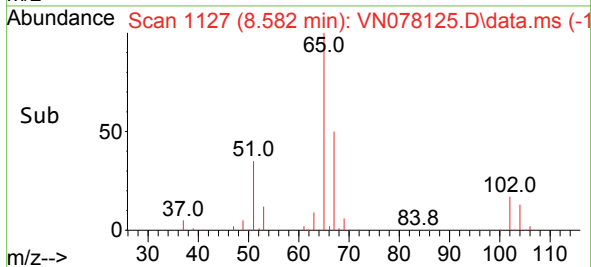
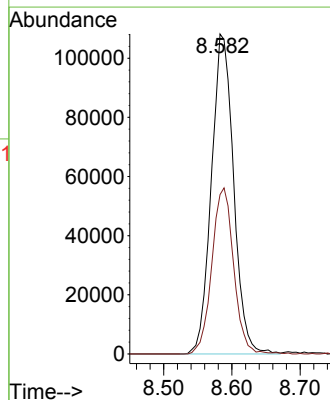
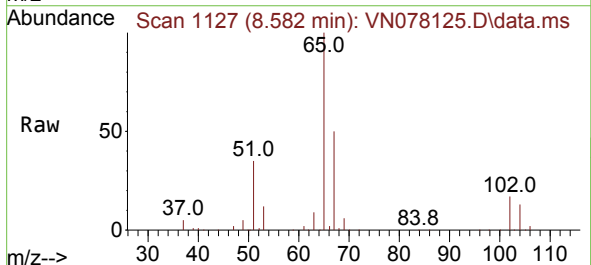
Instrument :
MSVOA_N
ClientSampleId :
TP-2

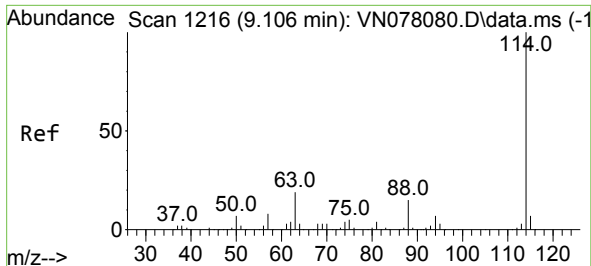
Tgt Ion: 56 Resp: 8542
Ion Ratio Lower Upper
56 100
69 143.7 26.8 40.2#
84 134.9 81.8 122.6#



#33
1,2-Dichloroethane-d4
Concen: 52.141 ug/l
RT: 8.582 min Scan# 1127
Delta R.T. 0.000 min
Lab File: VN078125.D
Acq: 08 Jun 2023 13:24

Tgt Ion: 65 Resp: 245043
Ion Ratio Lower Upper
65 100
67 51.1 0.0 106.6

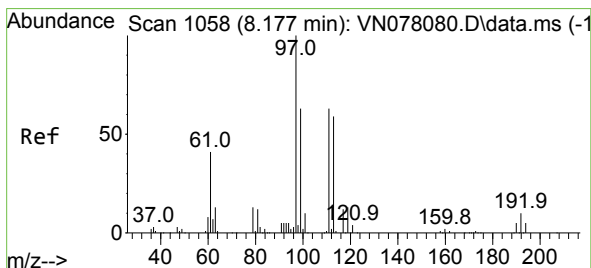
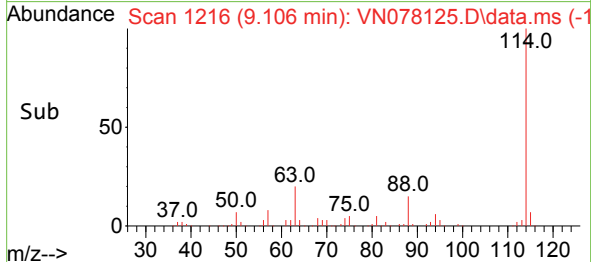
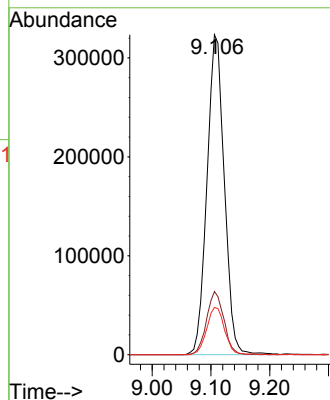
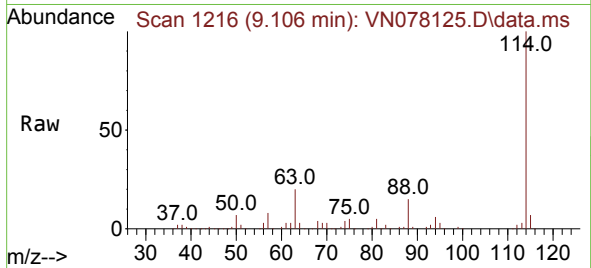




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN078125.D
Acq: 08 Jun 2023 13:24

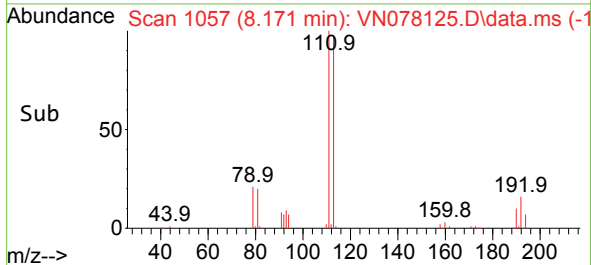
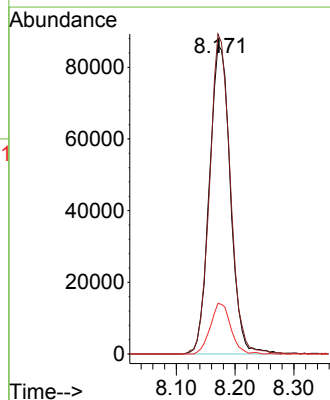
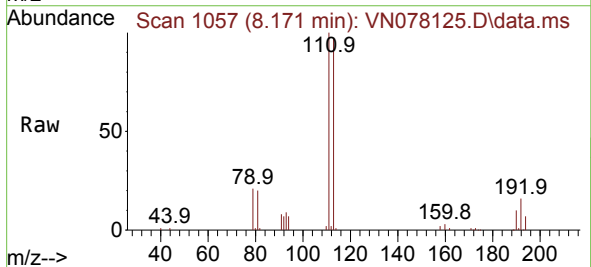
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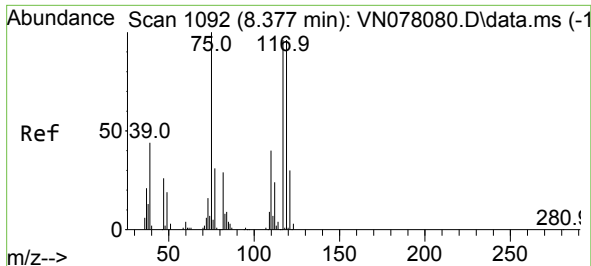
Tgt Ion:114 Resp: 664679
Ion Ratio Lower Upper
114 100
63 19.8 0.0 36.4
88 14.8 0.0 30.6



#35
Dibromofluoromethane
Concen: 50.831 ug/l
RT: 8.171 min Scan# 1057
Delta R.T. -0.006 min
Lab File: VN078125.D
Acq: 08 Jun 2023 13:24

Tgt Ion:113 Resp: 213628
Ion Ratio Lower Upper
113 100
111 101.6 82.6 123.8
192 15.9 12.7 19.1

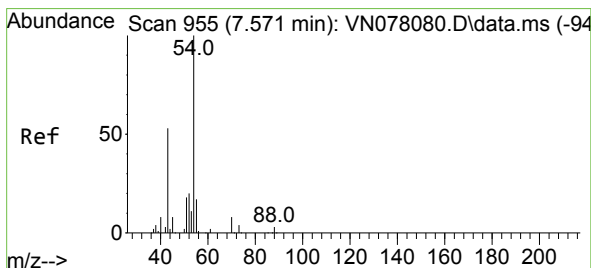
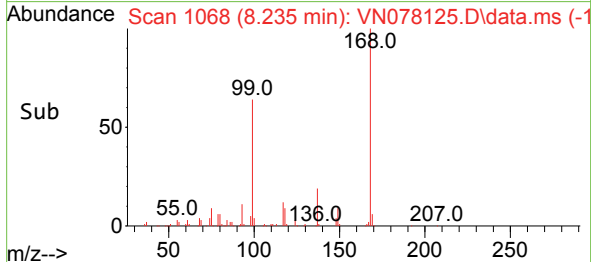
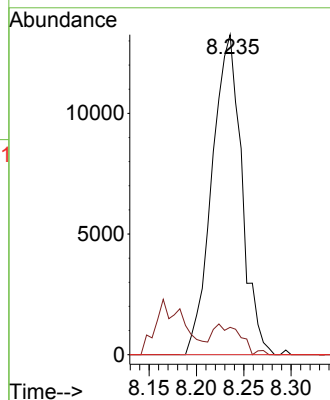
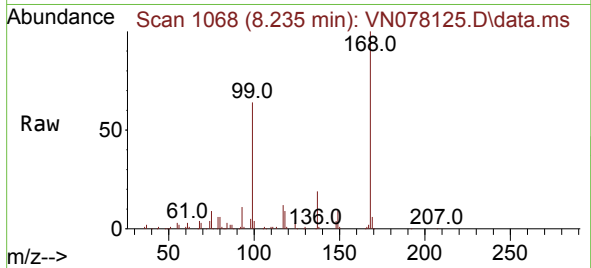




#36
1,1-Dichloropropene
Concen: 4.800 ug/l
RT: 8.235 min Scan# 1068
Delta R.T. -0.141 min
Lab File: VN078125.D
Acq: 08 Jun 2023 13:24

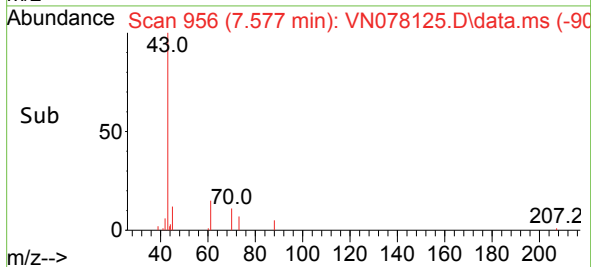
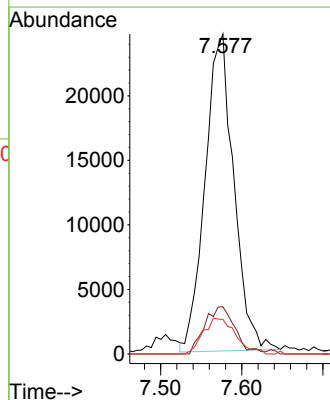
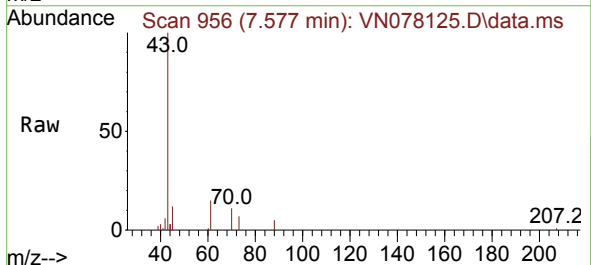
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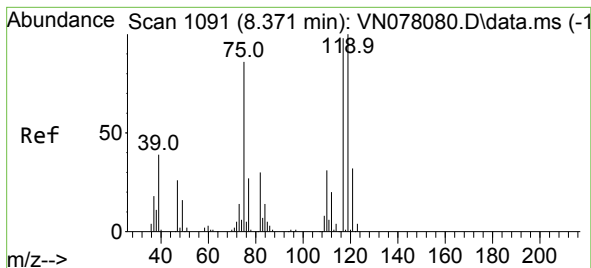
Tgt Ion: 75 Resp: 28937
Ion Ratio Lower Upper
75 100
110 8.8 19.1 57.3#
77 0.0 25.0 37.4#



#37
Ethyl Acetate
Concen: 12.820 ug/l
RT: 7.577 min Scan# 956
Delta R.T. 0.006 min
Lab File: VN078125.D
Acq: 08 Jun 2023 13:24

Tgt Ion: 43 Resp: 60375
Ion Ratio Lower Upper
43 100
61 15.8 13.2 19.8
70 12.7 11.3 16.9





#38

Carbon Tetrachloride

Concen: 5.998 ug/l

RT: 8.235 min Scan# 1068

Delta R.T. -0.135 min

Lab File: VN078125.D

Acq: 08 Jun 2023 13:24

Instrument :

MSVOA_N

ClientSampleId :

TP-2

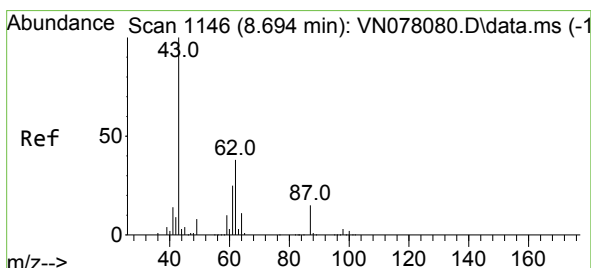
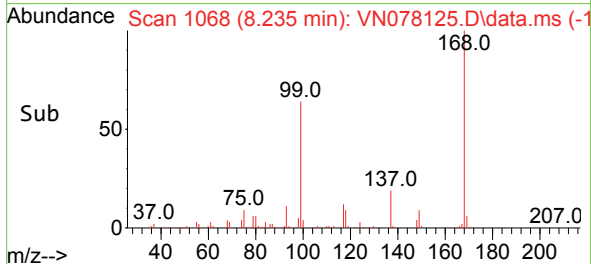
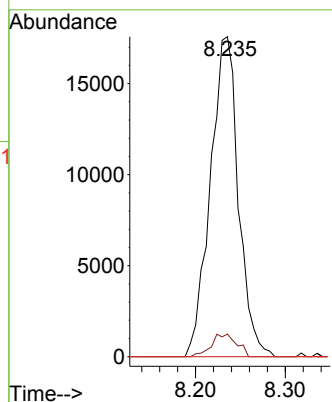
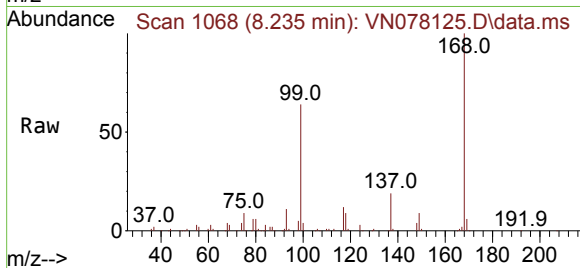
Tgt Ion:117 Resp: 38176

Ion Ratio Lower Upper

117 100

119 7.1 77.3 115.9#

121 0.0 23.3 34.9#



#43

Isopropyl Acetate

Concen: 45.743 ug/l

RT: 8.694 min Scan# 1146

Delta R.T. 0.000 min

Lab File: VN078125.D

Acq: 08 Jun 2023 13:24

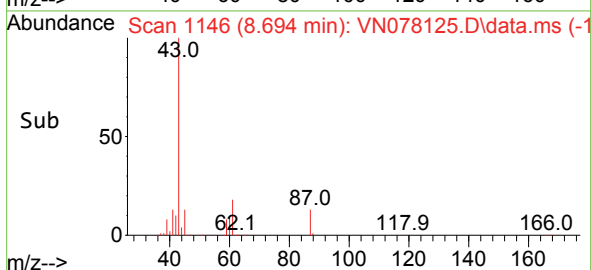
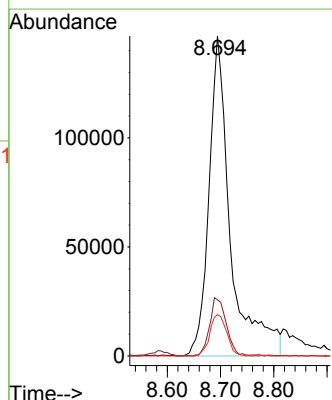
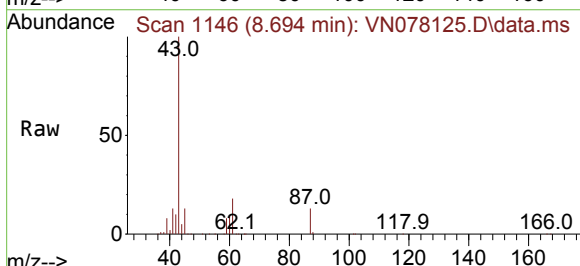
Tgt Ion: 43 Resp: 411969

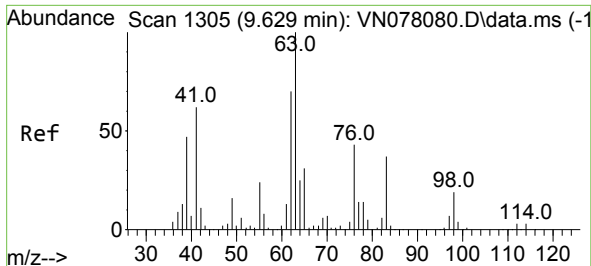
Ion Ratio Lower Upper

43 100

61 14.1 24.7 37.1#

87 10.1 14.6 21.8#





#45

1,2-Dichloropropane

Concen: 0.747 ug/l

RT: 9.741 min Scan# 1324

Delta R.T. 0.112 min

Lab File: VN078125.D

Acq: 08 Jun 2023 13:24

Instrument :

MSVOA_N

ClientSampleId :

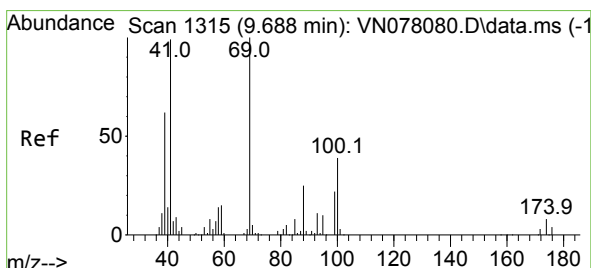
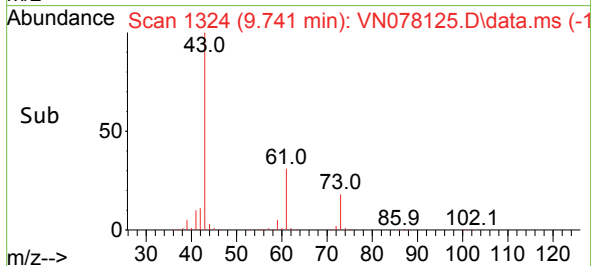
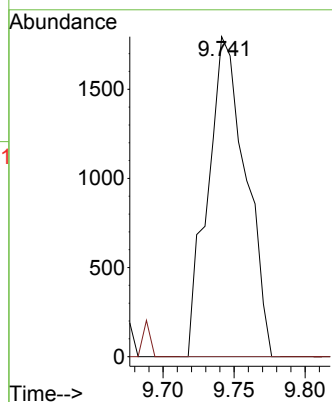
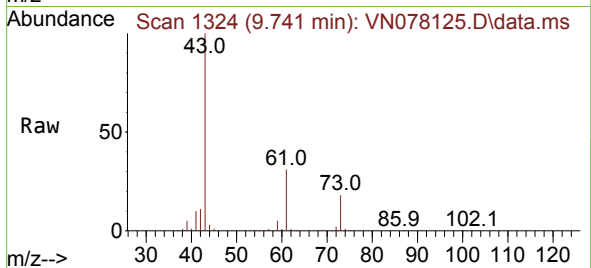
TP-2

Tgt Ion: 63 Resp: 3343

Ion Ratio Lower Upper

63 100

65 0.0 23.9 35.9#



#48

Methyl methacrylate

Concen: 1.916 ug/l

RT: 9.671 min Scan# 1312

Delta R.T. -0.018 min

Lab File: VN078125.D

Acq: 08 Jun 2023 13:24

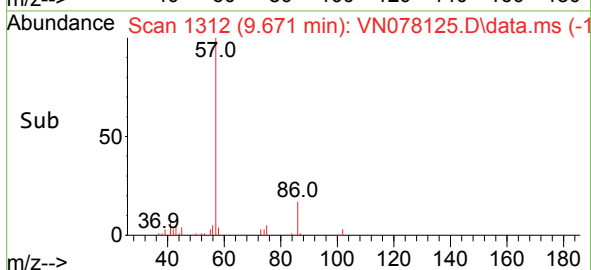
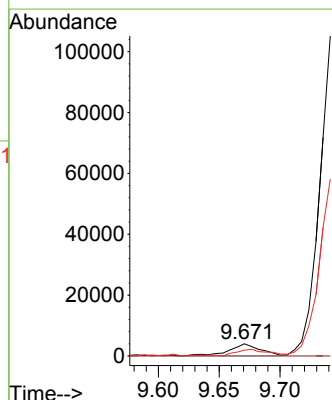
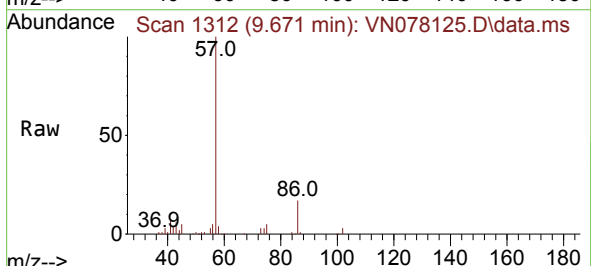
Tgt Ion: 41 Resp: 7242

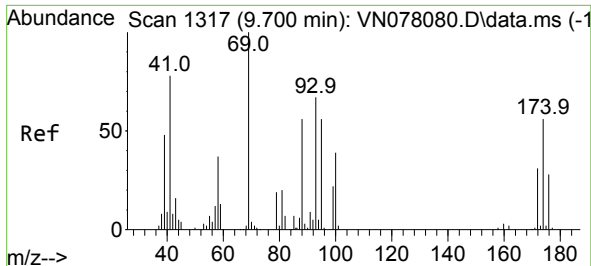
Ion Ratio Lower Upper

41 100

69 0.0 90.4 135.6#

39 55.0 54.6 81.8





#49

1,4-Dioxane

Concen: 5.552 ug/l

RT: 9.741 min Scan# 11

Delta R.T. 0.041 min

Lab File: VN078125.D

Acq: 08 Jun 2023 13:24

Instrument :

MSVOA_N

ClientSampleId :

TP-2

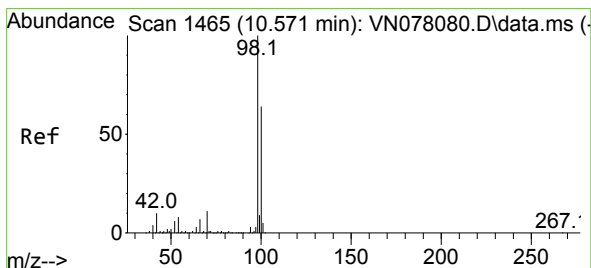
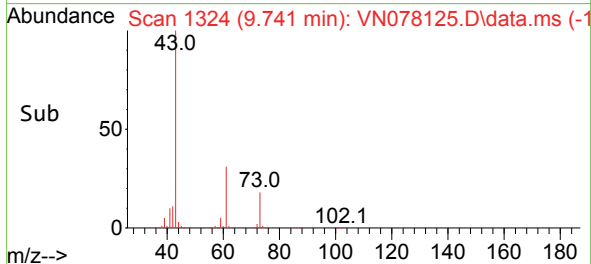
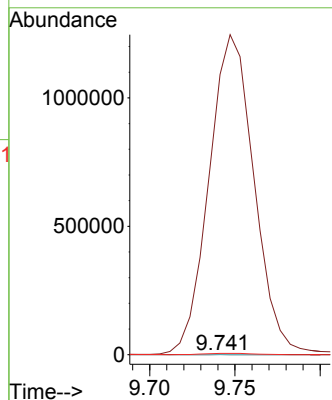
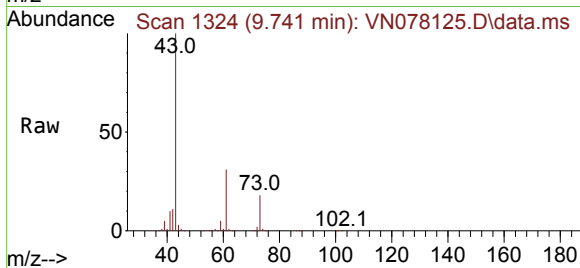
Tgt Ion: 88 Resp: 441

Ion Ratio Lower Upper

88 100

43 524213.8 17.0 25.6#

58 2417.2 47.0 70.4#



#50

Toluene-d8

Concen: 51.449 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. 0.000 min

Lab File: VN078125.D

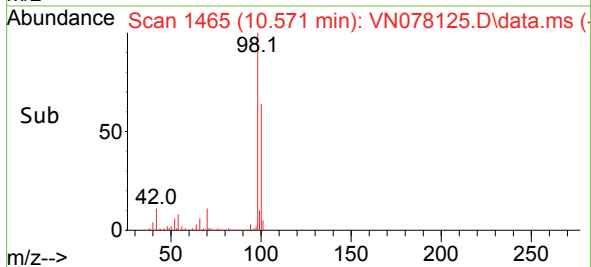
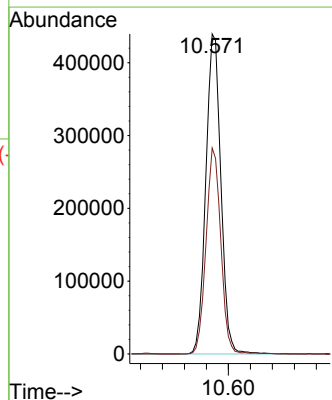
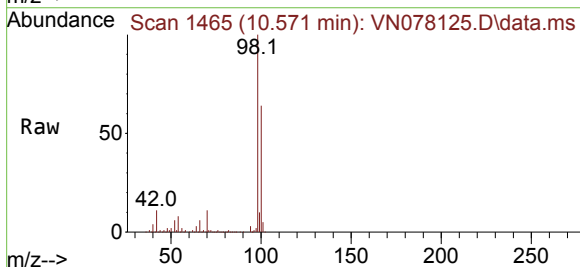
Acq: 08 Jun 2023 13:24

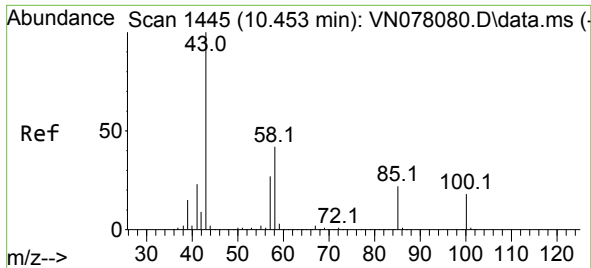
Tgt Ion: 98 Resp: 833556

Ion Ratio Lower Upper

98 100

100 63.1 52.0 78.0





#51

4-Methyl-2-Pentanone

Concen: 43.303 ug/l

RT: 10.365 min Scan# 14

Delta R.T. -0.088 min

Lab File: VN078125.D

Acq: 08 Jun 2023 13:24

Instrument :

MSVOA_N

ClientSampleId :

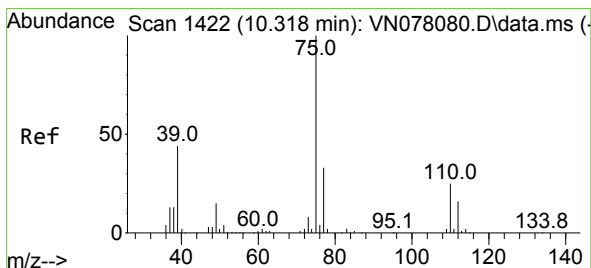
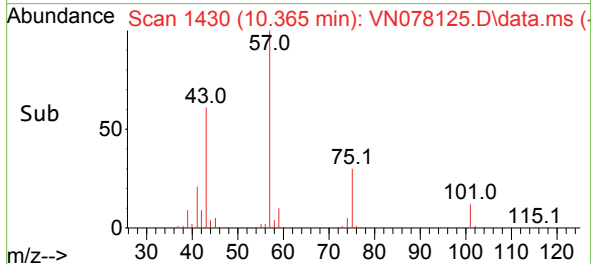
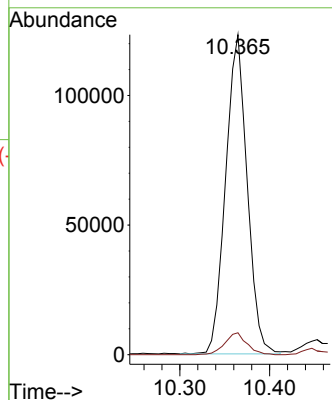
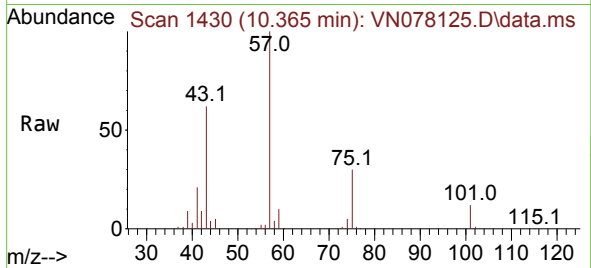
TP-2

Tgt Ion: 43 Resp: 205368

Ion Ratio Lower Upper

43 100

58 7.0 36.6 54.8#



#54

cis-1,3-Dichloropropene

Concen: 15.412 ug/l

RT: 10.365 min Scan# 1430

Delta R.T. 0.047 min

Lab File: VN078125.D

Acq: 08 Jun 2023 13:24

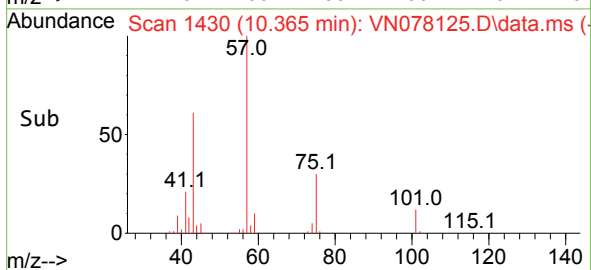
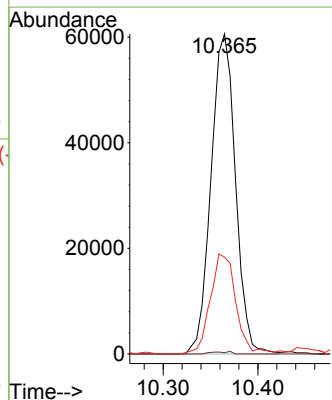
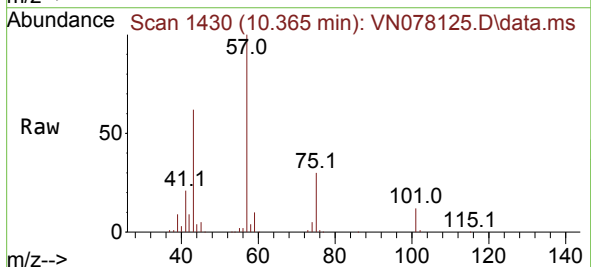
Tgt Ion: 75 Resp: 108694

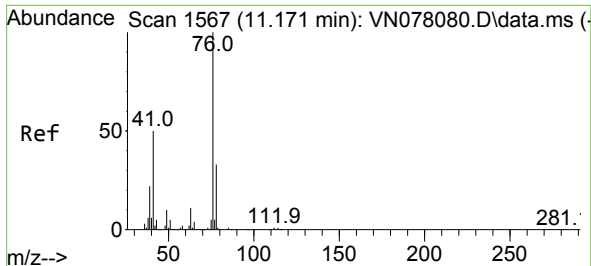
Ion Ratio Lower Upper

75 100

77 0.4 26.1 39.1#

39 30.2 31.6 47.4#





#57

1,3-Dichloropropane

Concen: 1.671 ug/l

RT: 11.206 min Scan# 11

Delta R.T. 0.035 min

Lab File: VN078125.D

Acq: 08 Jun 2023 13:24

Instrument :

MSVOA_N

ClientSampleId :

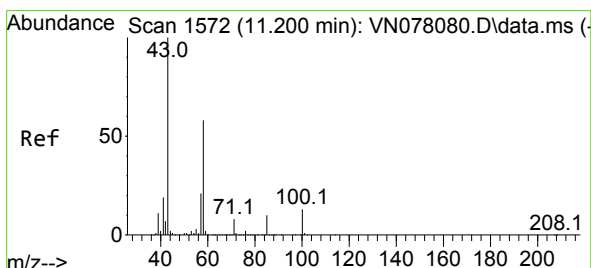
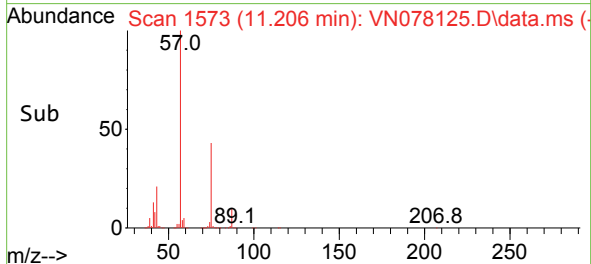
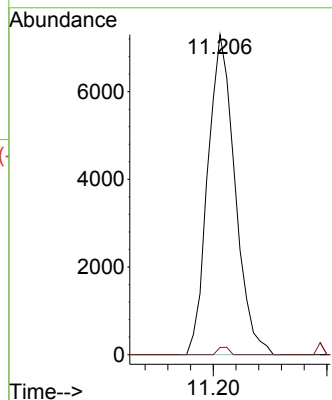
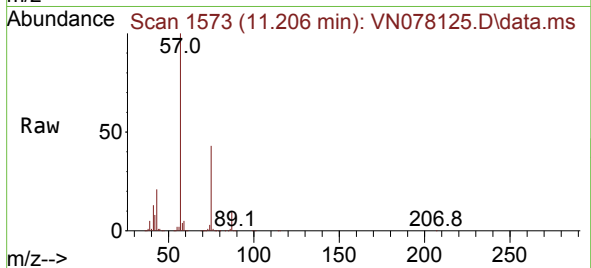
TP-2

Tgt Ion: 76 Resp: 12125

Ion Ratio Lower Upper

76 100

78 1.0 26.1 39.1#



#59

2-Hexanone

Concen: 69.456 ug/l

RT: 11.176 min Scan# 1568

Delta R.T. -0.024 min

Lab File: VN078125.D

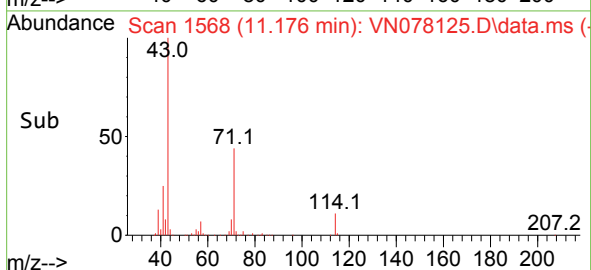
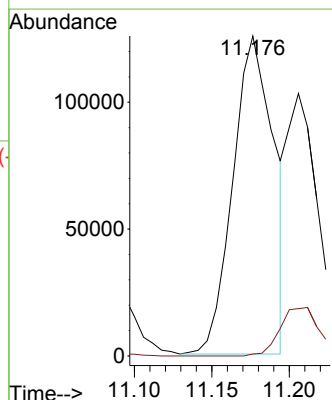
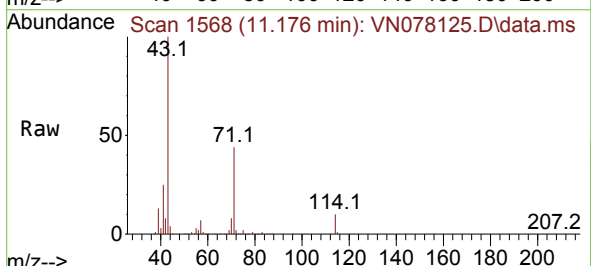
Acq: 08 Jun 2023 13:24

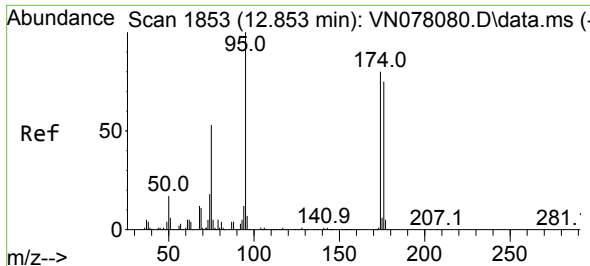
Tgt Ion: 43 Resp: 229359

Ion Ratio Lower Upper

43 100

58 0.0 31.7 95.1#

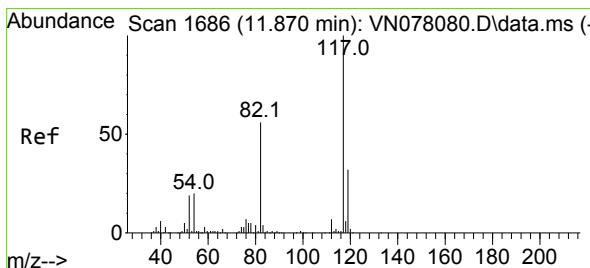
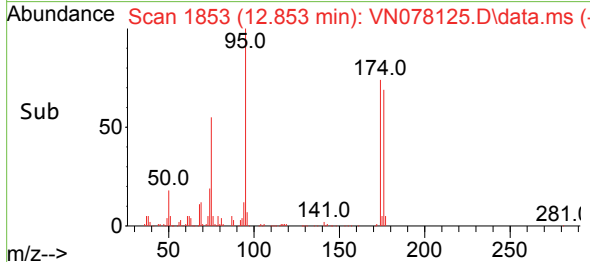
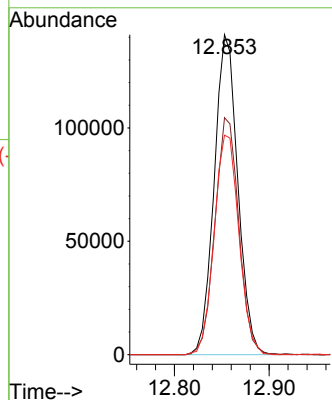
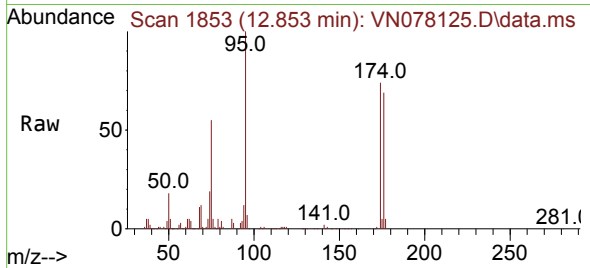




#62
4-Bromofluorobenzene
Concen: 48.577 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.000 min
Lab File: VN078125.D
Acq: 08 Jun 2023 13:24

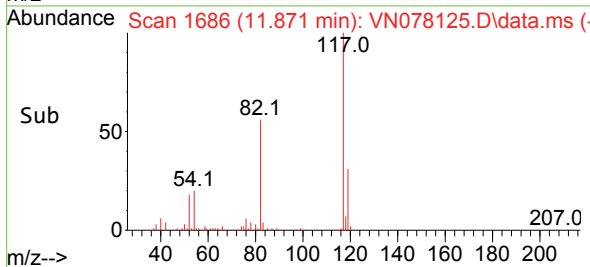
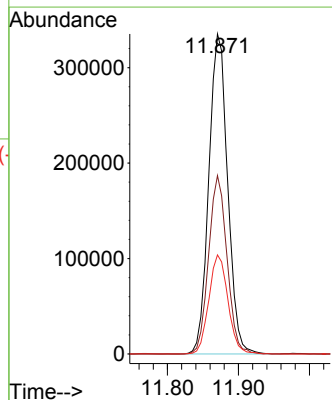
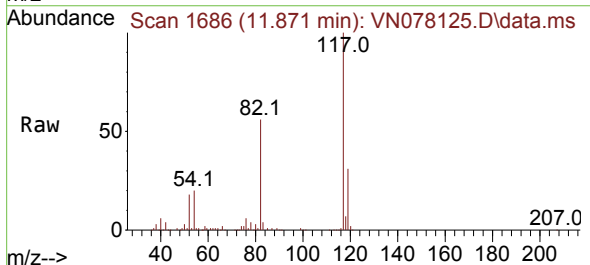
Instrument :
MSVOA_N
ClientSampleId :
TP-2

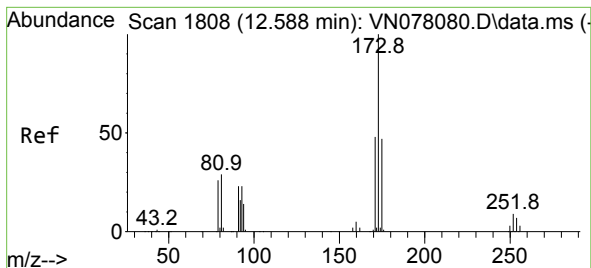
Tgt Ion: 95 Resp: 244671
Ion Ratio Lower Upper
95 100
174 75.0 0.0 143.8
176 71.8 0.0 135.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 1686
Delta R.T. 0.000 min
Lab File: VN078125.D
Acq: 08 Jun 2023 13:24

Tgt Ion: 117 Resp: 616994
Ion Ratio Lower Upper
117 100
82 55.8 44.0 66.0
119 30.9 25.6 38.4





#71

Bromoform

Concen: 0.495 ug/l

RT: 12.859 min Scan# 1854

Delta R.T. 0.271 min

Lab File: VN078125.D

Acq: 08 Jun 2023 13:24

Instrument :

MSVOA_N

ClientSampleId :

TP-2

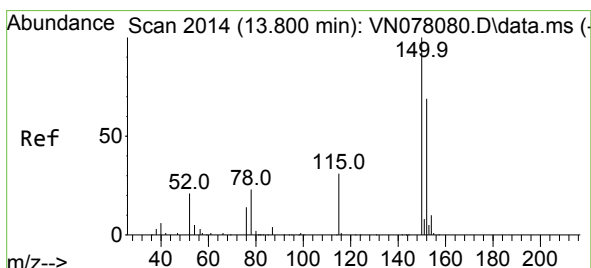
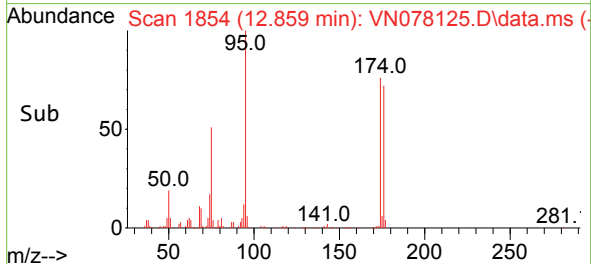
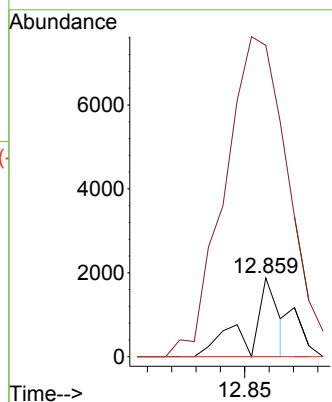
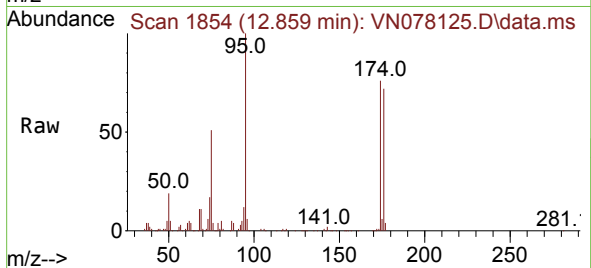
Tgt Ion:173 Resp: 1552

Ion Ratio Lower Upper

173 100

175 766.8 24.3 73.0#

254 0.0 0.0 0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.800 min Scan# 2014

Delta R.T. 0.000 min

Lab File: VN078125.D

Acq: 08 Jun 2023 13:24

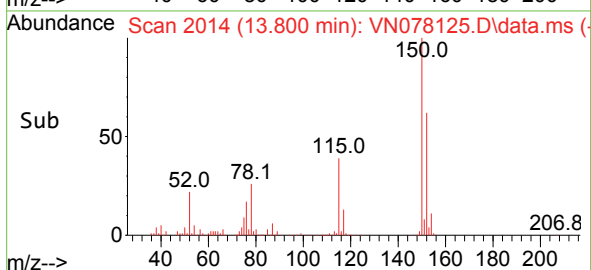
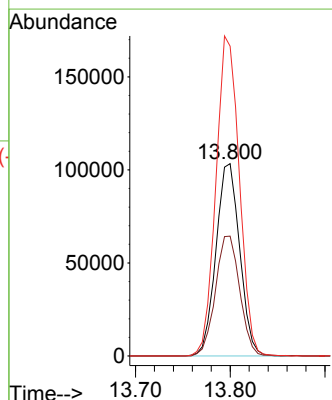
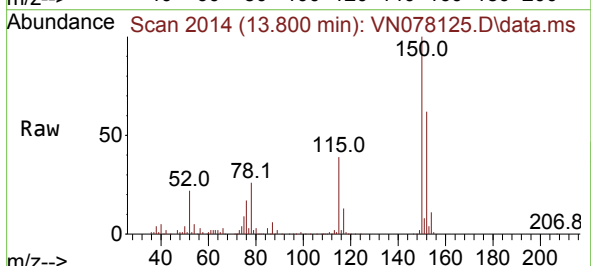
Tgt Ion:152 Resp: 180123

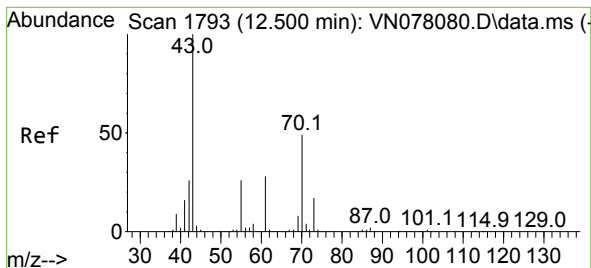
Ion Ratio Lower Upper

152 100

115 63.9 32.3 96.8

150 163.5 0.0 355.8





#74

N-amy1 acetate

Concen: 10.004 ug/l

RT: 12.306 min Scan# 1

Delta R.T. -0.194 min

Lab File: VN078125.D

Acq: 08 Jun 2023 13:24

Instrument :

MSVOA_N

ClientSampleId :

TP-2

Tgt Ion: 43 Resp: 56111

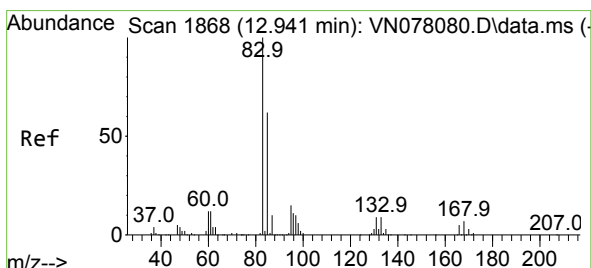
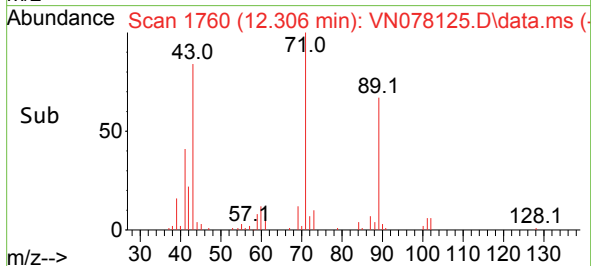
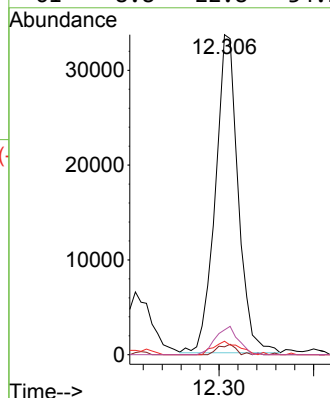
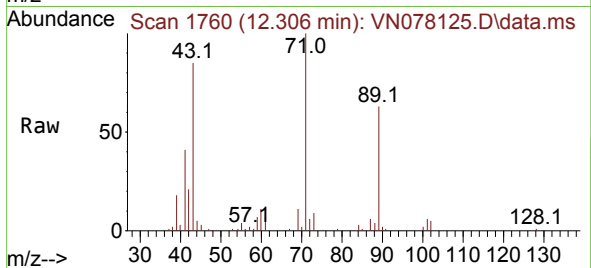
Ion Ratio Lower Upper

43 100

70 2.6 43.4 65.2#

55 4.6 21.4 32.0#

61 8.8 22.8 34.2#



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.953 min Scan# 1870

Delta R.T. 0.012 min

Lab File: VN078125.D

Acq: 08 Jun 2023 13:24

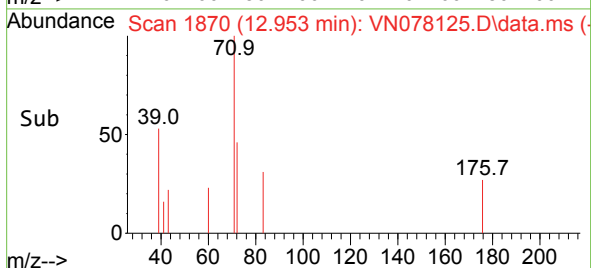
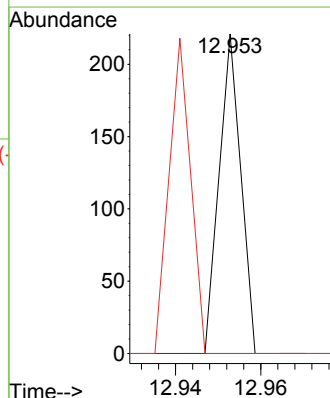
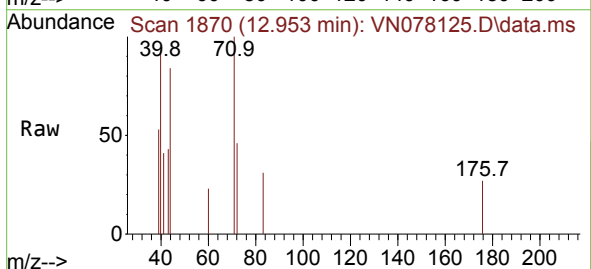
Tgt Ion: 83 Resp: 78

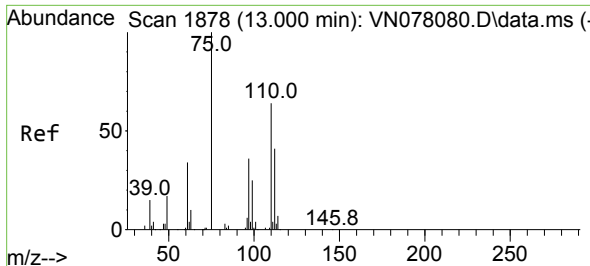
Ion Ratio Lower Upper

83 100

131 0.0 5.0 15.0#

85 98.7 31.9 95.7#

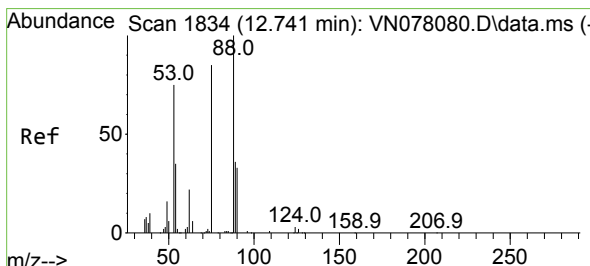
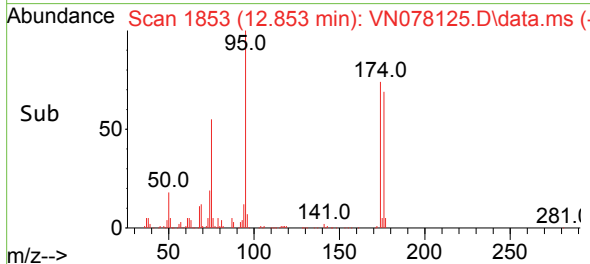
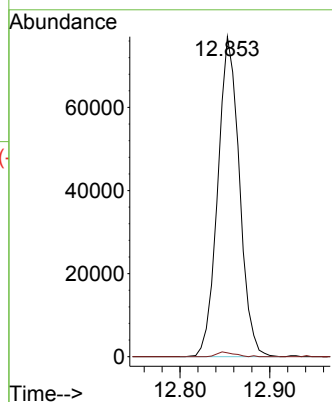
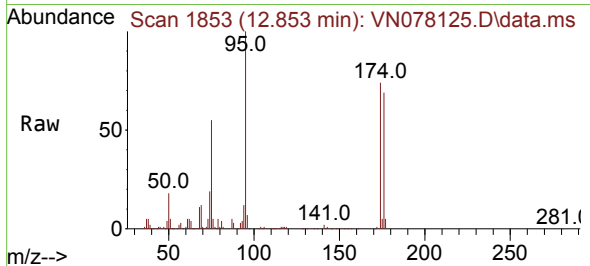




#76
1,2,3-Trichloropropane
Concen: 30.347 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.147 min
Lab File: VN078125.D
Acq: 08 Jun 2023 13:24

Instrument :
MSVOA_N
ClientSampleId :
TP-2

Tgt Ion: 75 Resp: 129223
Ion Ratio Lower Upper
75 100
77 1.2 84.5 253.5#



#81
trans-1,4-Dichloro-2-butene
Concen: 93.236 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.112 min
Lab File: VN078125.D
Acq: 08 Jun 2023 13:24

Tgt Ion: 75 Resp: 129223
Ion Ratio Lower Upper
75 100
53 0.1 67.4 101.2#
89 0.0 38.8 58.2#

