

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021224\
 Data File : VN081012.D
 Acq On : 12 Feb 2024 18:44
 Operator : JC\MD
 Sample : P1453-04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-3

Quant Time: Feb 13 03:25:35 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N020624W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 07 06:22:23 2024
 Response via : Initial Calibration

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

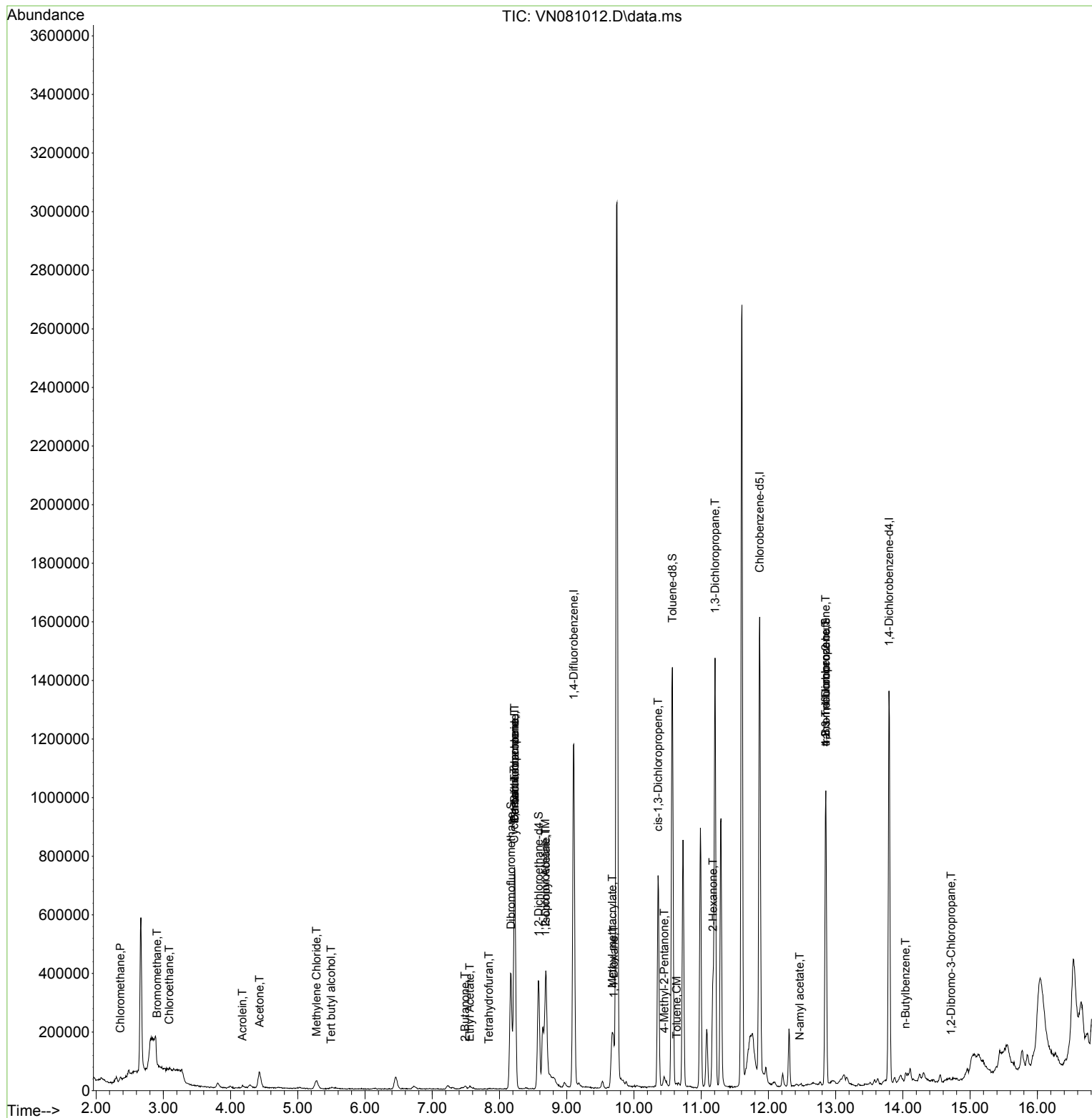
Internal Standards						
1) Pentafluorobenzene	8.224	168	591499	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	9.106	114	1105746	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	975583	50.000	ug/l	# 0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	379019	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	305259	40.910	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	81.820%
35) Dibromofluoromethane	8.171	113	281816	47.496	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	95.000%
50) Toluene-d8	10.571	98	1030328	48.008	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	96.020%
62) 4-Bromofluorobenzene	12.853	95	342078	43.876	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	87.760%
Target Compounds						
					Qvalue	
3) Chloromethane	2.360	50	17991	1.246	ug/l	98
5) Bromomethane	2.907	94	2608	0.463	ug/l	# 74
6) Chloroethane	3.089	64	4318	0.700	ug/l	# 87
11) Tert butyl alcohol	5.495	59	5036	4.898	ug/l	# 72
13) Acrolein	4.177	56	9456	7.298	ug/l	94
16) Acetone	4.430	43	106438	43.357	ug/l	99
18) Methyl Acetate	5.024	43	7516	Below Cal	#	89
20) Methylene Chloride	5.277	84	26305	3.537	ug/l	# 72
25) 2-Butanone	7.489	43	15761	4.000	ug/l	95
29) Tetrahydrofuran	7.842	42	1979	0.821	ug/l	# 71
31) Cyclohexane	8.218	56	11864	1.163	ug/l	# 1
36) 1,1-Dichloropropene	8.224	75	43368	4.913	ug/l	# 52
37) Ethyl Acetate	7.559	43	12295	1.841	ug/l	# 82
38) Carbon Tetrachloride	8.224	117	59173	6.539	ug/l	# 17
42) 1,2-Dichloroethane	8.683	62	2872	0.307	ug/l	87
43) Isopropyl Acetate	8.689	43	694626	56.557	ug/l	# 79
48) Methyl methacrylate	9.677	41	9506	1.374	ug/l	# 60
49) 1,4-Dioxane	9.700	88	127654	999.110	ug/l	# 65
51) 4-Methyl-2-Pentanone	10.453	43	30326	4.097	ug/l	88
52) Toluene	10.636	92	4121	0.229	ug/l	# 59
54) cis-1,3-Dichloropropene	10.359	75	149141	13.095	ug/l	# 56
57) 1,3-Dichloropropane	11.206	76	16025	1.420	ug/l	# 43
59) 2-Hexanone	11.177	43	300462	53.559	ug/l	# 26
74) N-amyl acetate	12.465	43	3648	0.343	ug/l	# 67
76) 1,2,3-Trichloropropane	12.853	75	174439	22.572	ug/l	# 1
81) trans-1,4-Dichloro-2-b...	12.853	75	174439	61.326	ug/l	# 14
89) n-Butylbenzene	14.041	91	13751	0.671	ug/l	# 34
92) 1,2-Dibromo-3-Chloropr...	14.718	75	864	0.504	ug/l	# 13

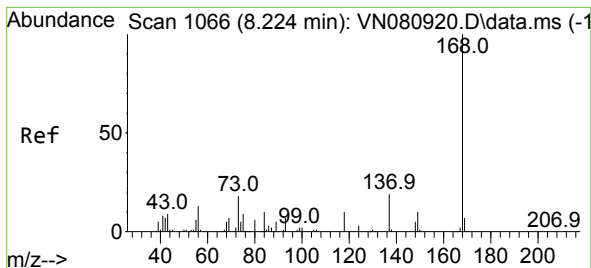
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Feb 13 03:25:35 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N020624W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 07 06:22:23 2024
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.224 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN081012.D

Acq: 12 Feb 2024 18:44

Instrument :

MSVOA_N

ClientSampleId :

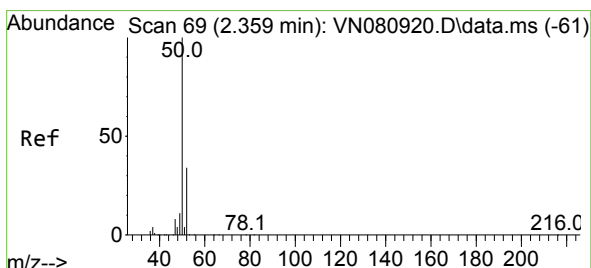
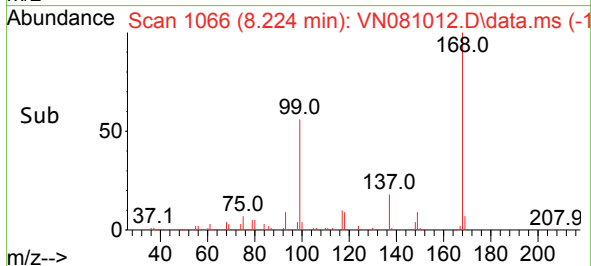
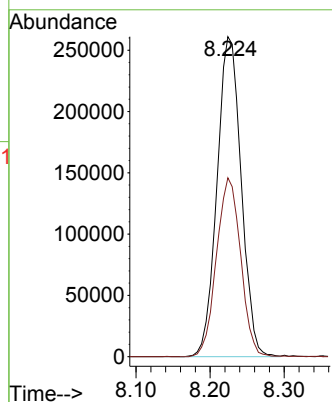
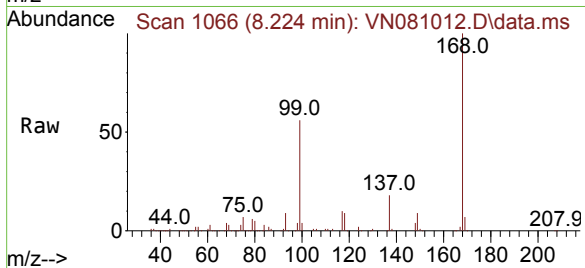
TP-3

Tgt Ion:168 Resp: 591499

Ion Ratio Lower Upper

168 100

99 55.9 59.9 89.9#



#3

Chloromethane

Concen: 1.246 ug/l

RT: 2.360 min Scan# 69

Delta R.T. 0.001 min

Lab File: VN081012.D

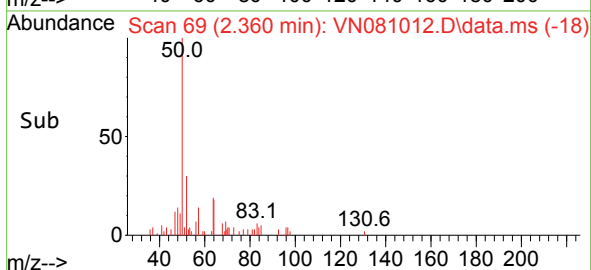
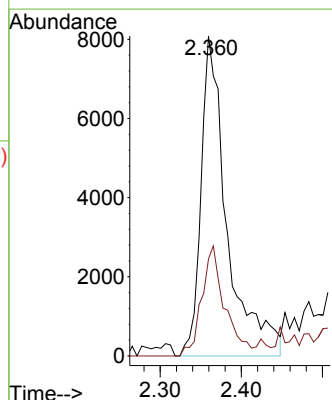
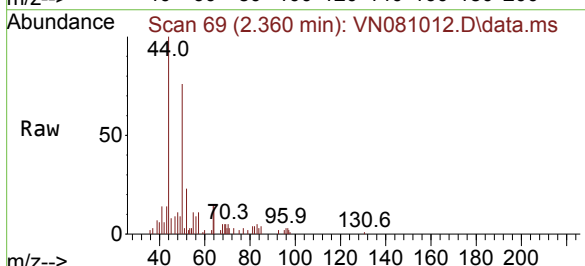
Acq: 12 Feb 2024 18:44

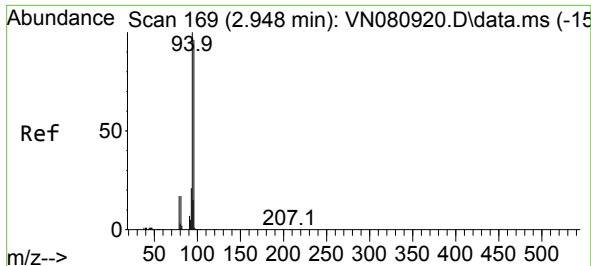
Tgt Ion: 50 Resp: 17991

Ion Ratio Lower Upper

50 100

52 30.4 25.0 37.4





#5

Bromomethane

Concen: 0.463 ug/l

RT: 2.907 min Scan# 1

Delta R.T. -0.041 min

Lab File: VN081012.D

Acq: 12 Feb 2024 18:44

Instrument :

MSVOA_N

ClientSampleId :

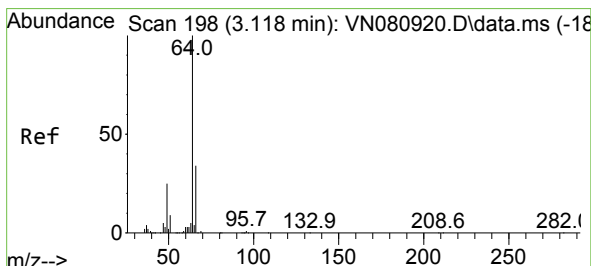
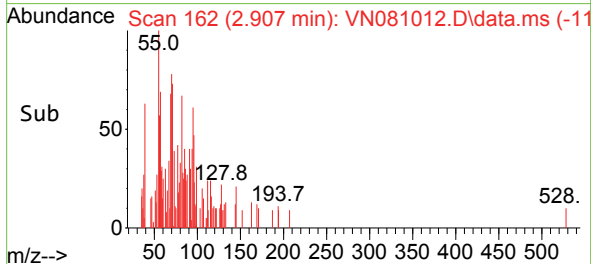
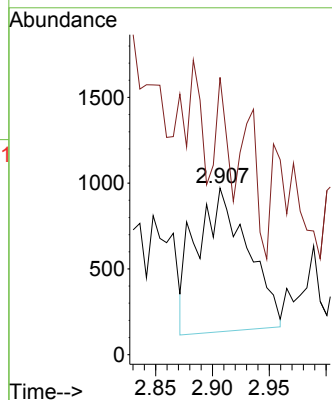
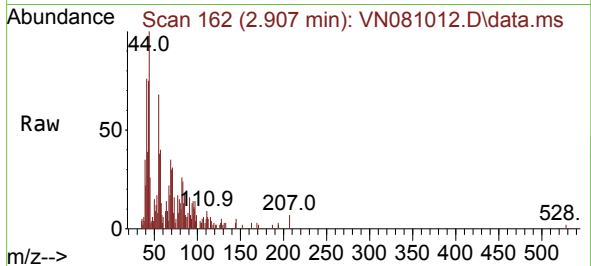
TP-3

Tgt Ion: 94 Resp: 2608

Ion Ratio Lower Upper

94 100

96 62.8 69.2 103.8#



#6

Chloroethane

Concen: 0.700 ug/l

RT: 3.089 min Scan# 193

Delta R.T. -0.029 min

Lab File: VN081012.D

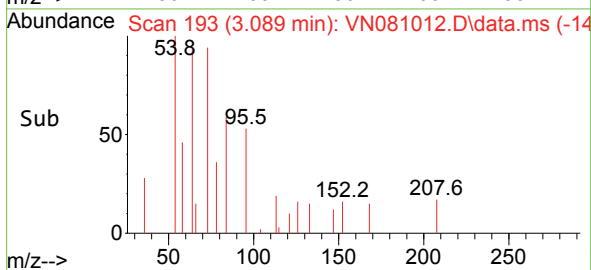
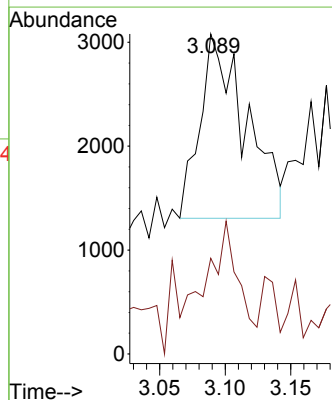
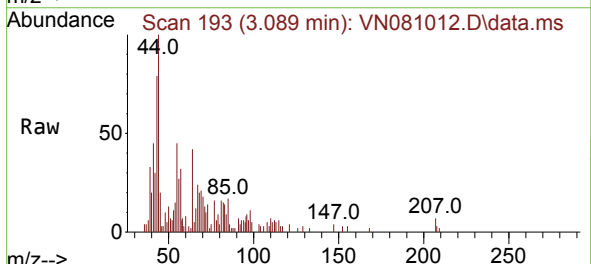
Acq: 12 Feb 2024 18:44

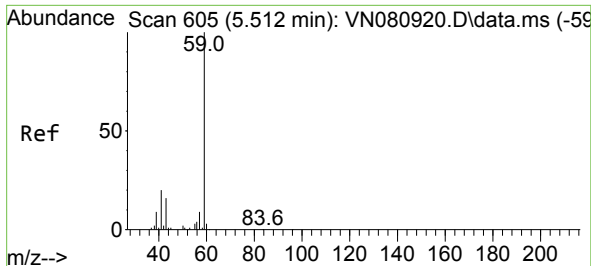
Tgt Ion: 64 Resp: 4318

Ion Ratio Lower Upper

64 100

66 40.2 26.4 39.6#

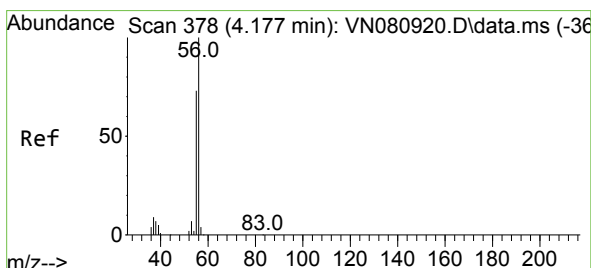
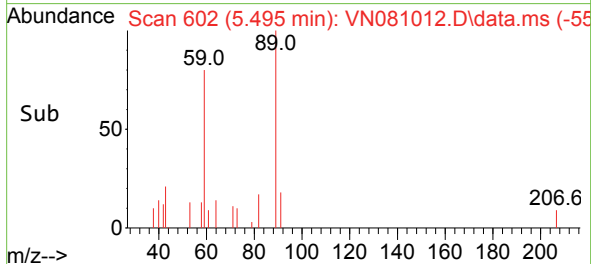
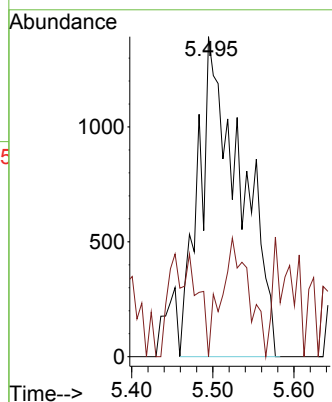
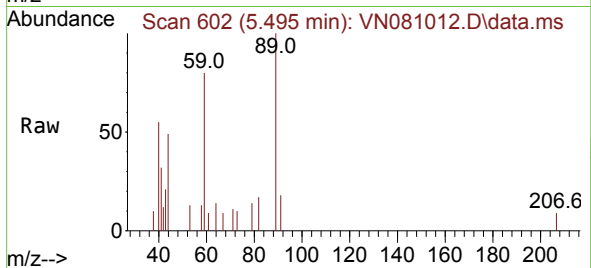




#11
Tert butyl alcohol
Concen: 4.898 ug/l
RT: 5.495 min Scan# 605
Delta R.T. -0.018 min
Lab File: VN081012.D
Acq: 12 Feb 2024 18:44

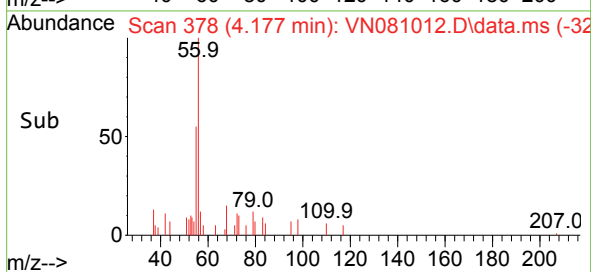
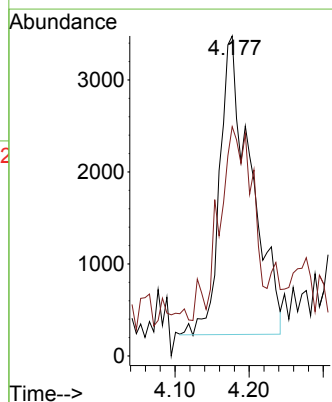
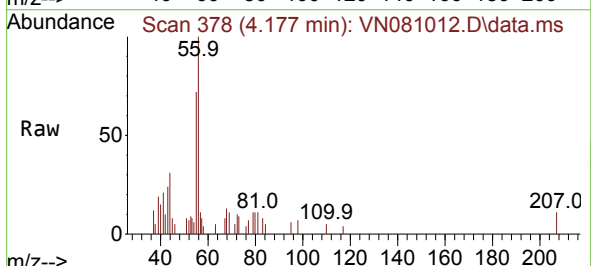
Instrument :
MSVOA_N
ClientSampleId :
TP-3

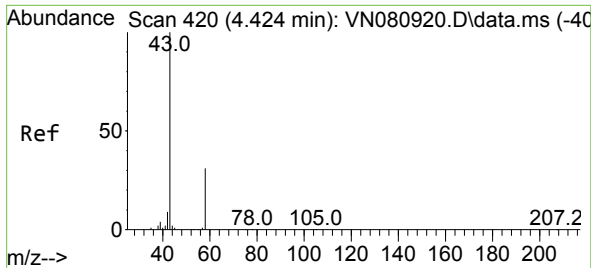
Tgt Ion: 59 Resp: 5036
Ion Ratio Lower Upper
59 100
57 0.0 8.6 12.8#



#13
Acrolein
Concen: 7.298 ug/l
RT: 4.177 min Scan# 378
Delta R.T. 0.000 min
Lab File: VN081012.D
Acq: 12 Feb 2024 18:44

Tgt Ion: 56 Resp: 9456
Ion Ratio Lower Upper
56 100
55 64.0 55.3 82.9

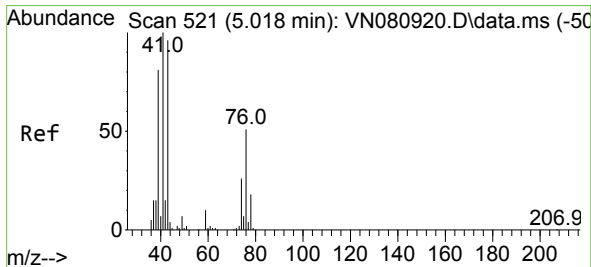
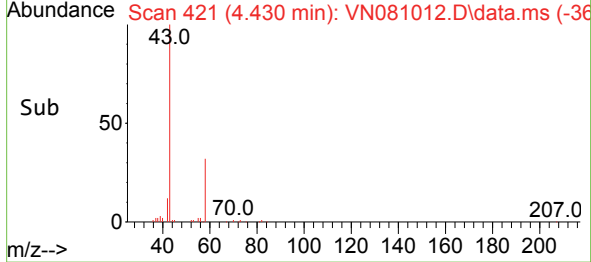
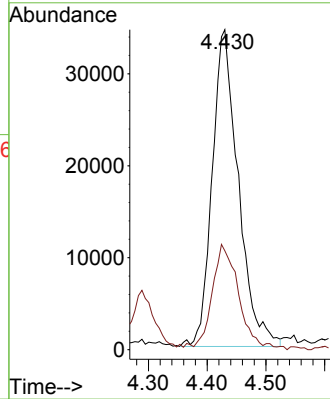
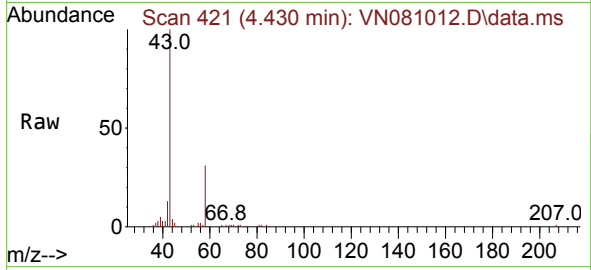




#16
Acetone
Concen: 43.357 ug/l
RT: 4.430 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN081012.D
Acq: 12 Feb 2024 18:44

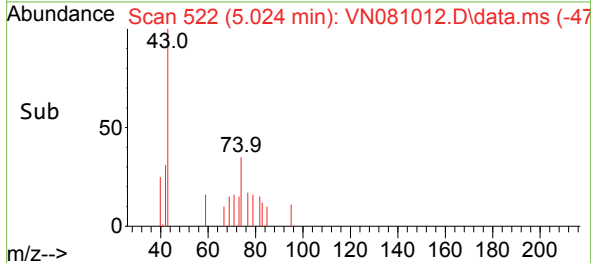
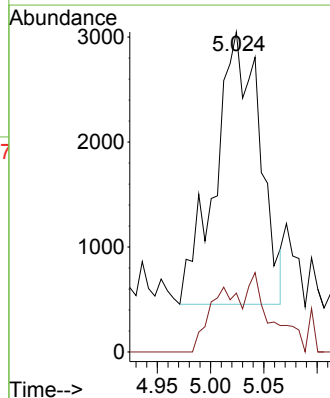
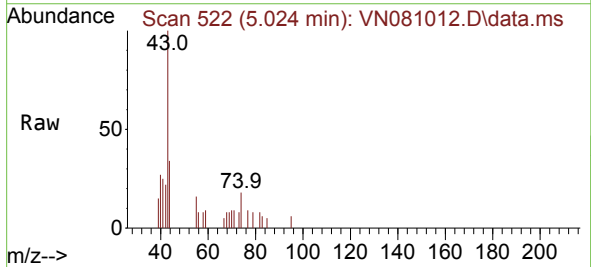
Instrument :
MSVOA_N
ClientSampleId :
TP-3

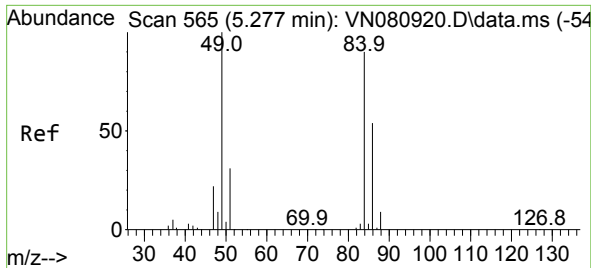
Tgt Ion: 43 Resp: 106438
Ion Ratio Lower Upper
43 100
58 30.2 24.8 37.2



#18
Methyl Acetate
Concen: Below Cal
RT: 5.024 min Scan# 522
Delta R.T. 0.006 min
Lab File: VN081012.D
Acq: 12 Feb 2024 18:44

Tgt Ion: 43 Resp: 7516
Ion Ratio Lower Upper
43 100
74 16.5 17.3 25.9#

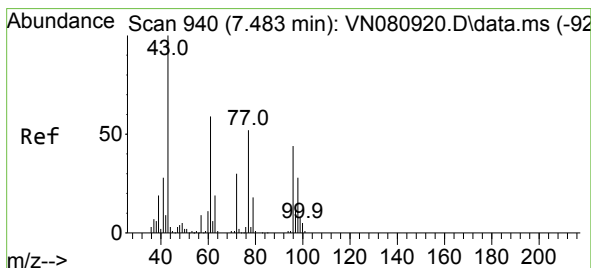
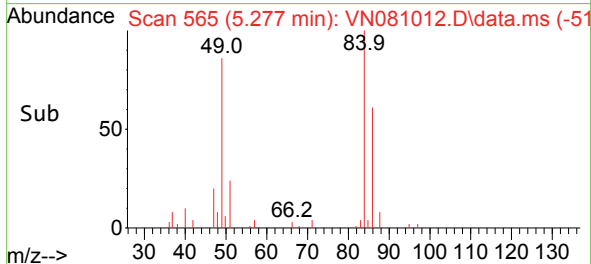
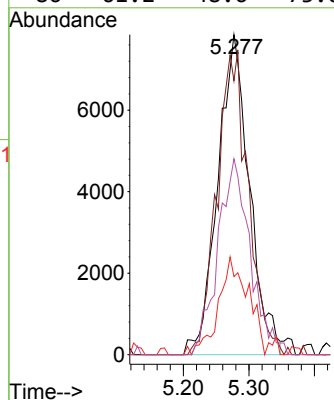
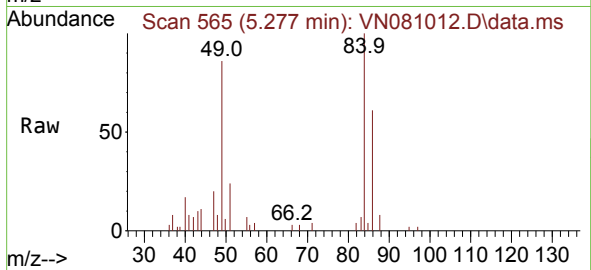




#20
Methylene Chloride
Concen: 3.537 ug/l
RT: 5.277 min Scan# 51
Delta R.T. 0.000 min
Lab File: VN081012.D
Acq: 12 Feb 2024 18:44

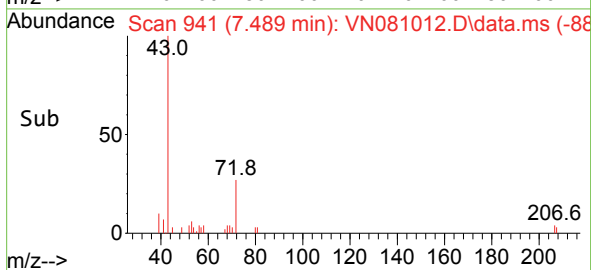
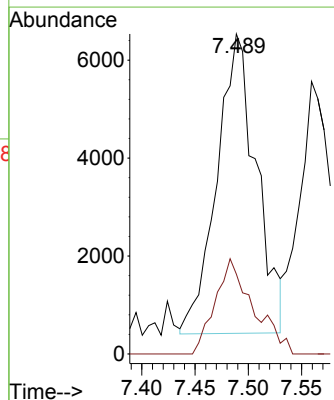
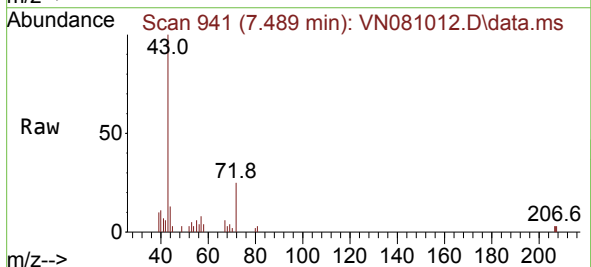
Instrument :
MSVOA_N
ClientSampleId :
TP-3

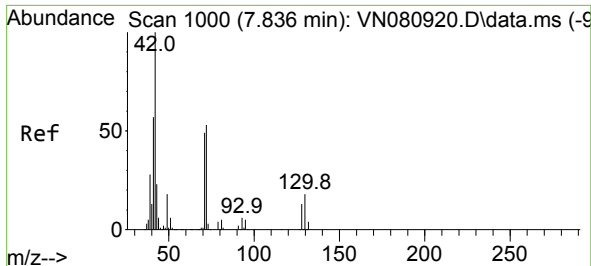
Tgt Ion:	84	Resp:	26305
Ion	Ratio	Lower	Upper
84	100		
49	85.6	108.1	162.1#
51	24.4	32.9	49.3#
86	61.2	48.6	73.0



#25
2-Butanone
Concen: 4.000 ug/l
RT: 7.489 min Scan# 941
Delta R.T. 0.006 min
Lab File: VN081012.D
Acq: 12 Feb 2024 18:44

Tgt Ion:	43	Resp:	15761
Ion	Ratio	Lower	Upper
43	100		
72	27.1	19.5	29.3





#29

Tetrahydrofuran

Concen: 0.821 ug/l

RT: 7.842 min Scan# 1000

Delta R.T. 0.006 min

Lab File: VN081012.D

Acq: 12 Feb 2024 18:44

Instrument :

MSVOA_N

ClientSampleId :

TP-3

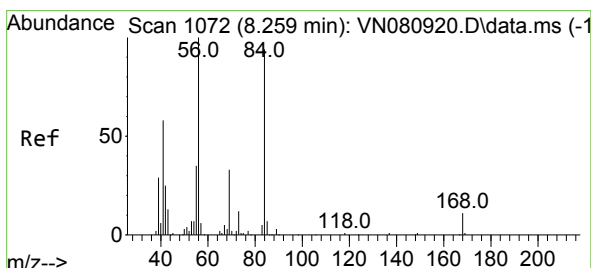
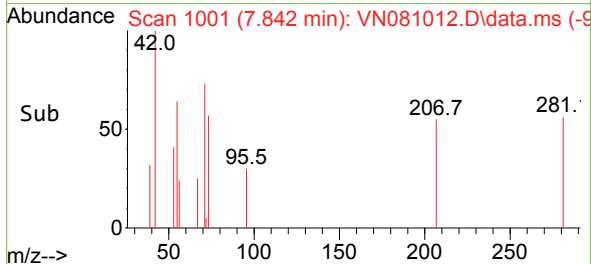
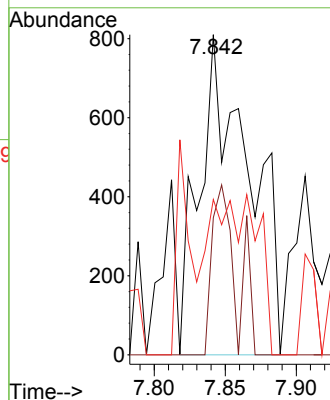
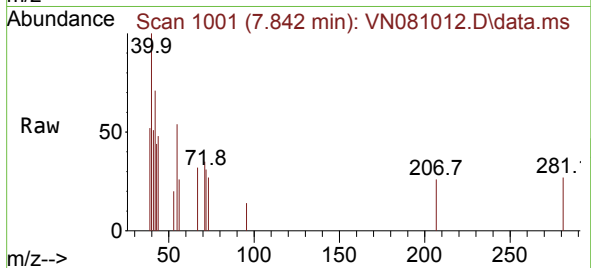
Tgt Ion: 42 Resp: 1979

Ion Ratio Lower Upper

42 100

72 25.8 31.1 46.7#

71 13.2 28.3 42.5#



#31

Cyclohexane

Concen: 1.163 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.041 min

Lab File: VN081012.D

Acq: 12 Feb 2024 18:44

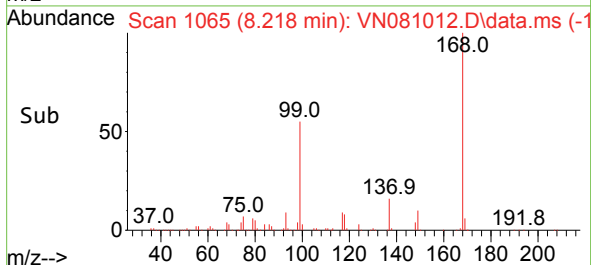
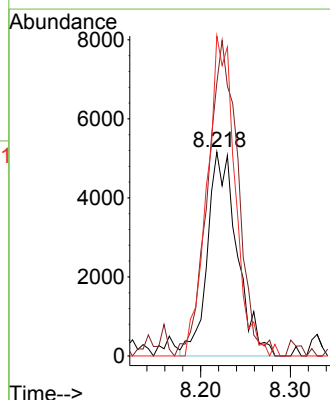
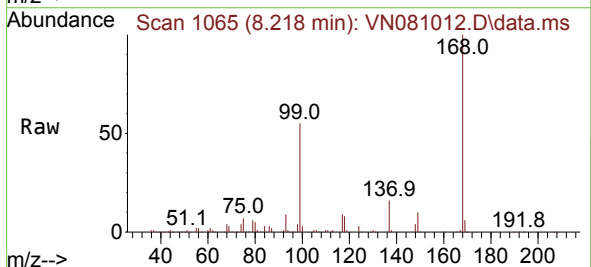
Tgt Ion: 56 Resp: 11864

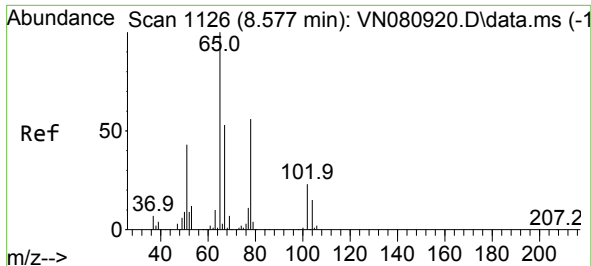
Ion Ratio Lower Upper

56 100

69 133.9 20.1 30.1#

84 156.9 56.9 85.3#





#33

1,2-Dichloroethane-d4

Concen: 40.910 ug/l

RT: 8.583 min Scan# 1127

Delta R.T. 0.006 min

Lab File: VN081012.D

Acq: 12 Feb 2024 18:44

Instrument :

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ClientSampleId :

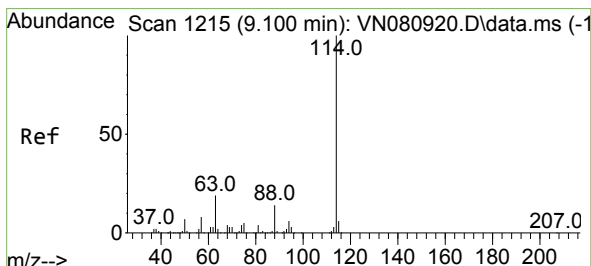
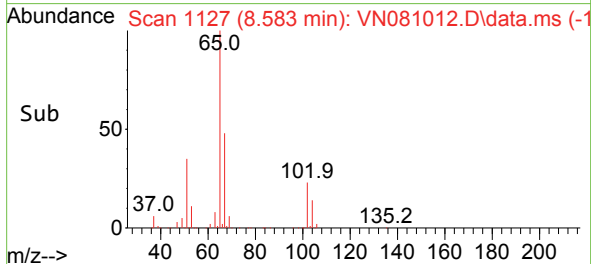
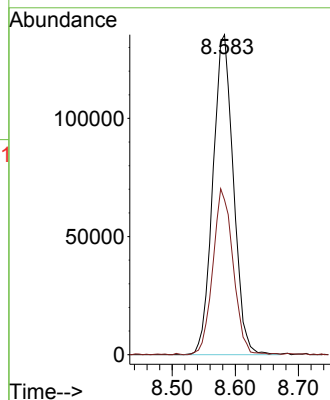
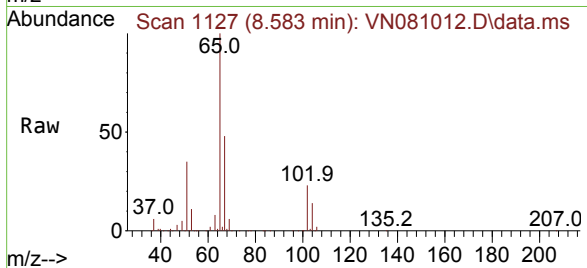
TP-3

Tgt Ion: 65 Resp: 305259

Ion Ratio Lower Upper

65 100

67 51.2 0.0 102.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. 0.006 min

Lab File: VN081012.D

Acq: 12 Feb 2024 18:44

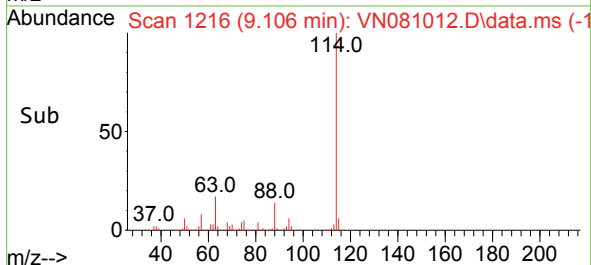
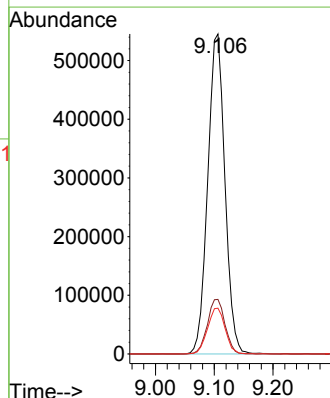
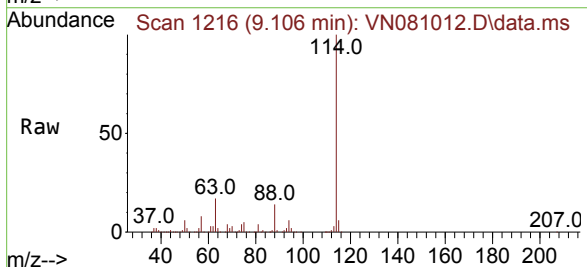
Tgt Ion: 114 Resp: 1105746

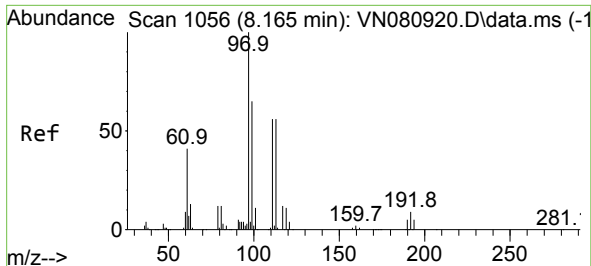
Ion Ratio Lower Upper

114 100

63 17.1 0.0 48.0

88 14.3 0.0 34.8

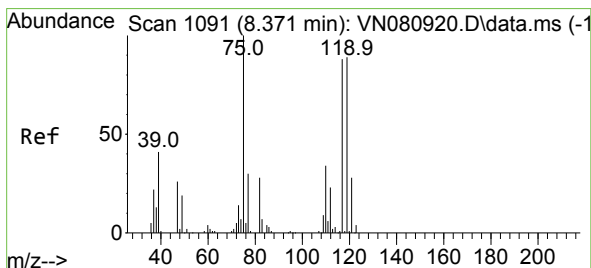
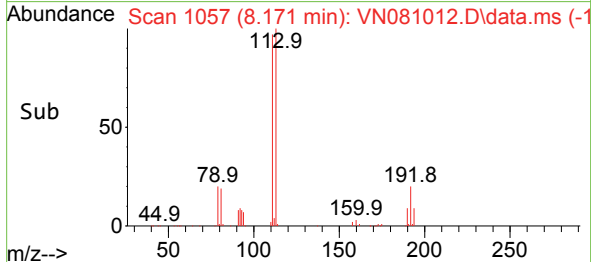
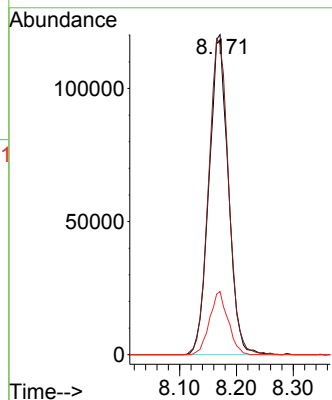
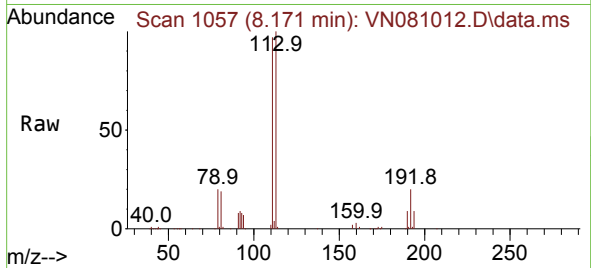




#35
Dibromofluoromethane
Concen: 47.496 ug/l
RT: 8.171 min Scan# 1057
Delta R.T. 0.006 min
Lab File: VN081012.D
Acq: 12 Feb 2024 18:44

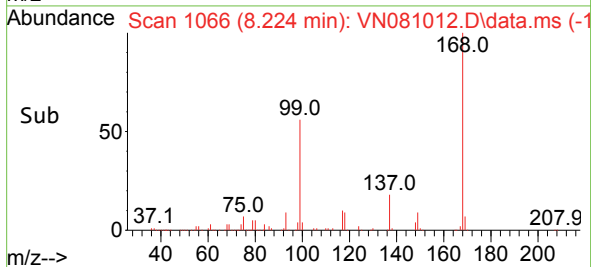
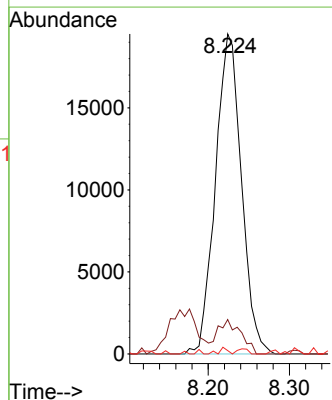
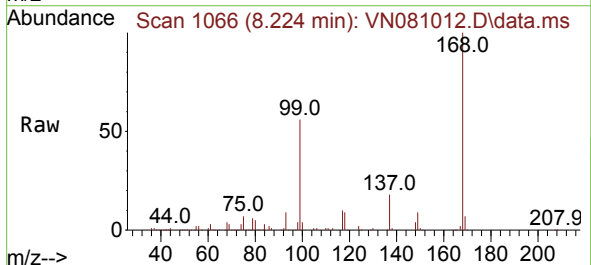
Instrument :
MSVOA_N
ClientSampleId :
TP-3

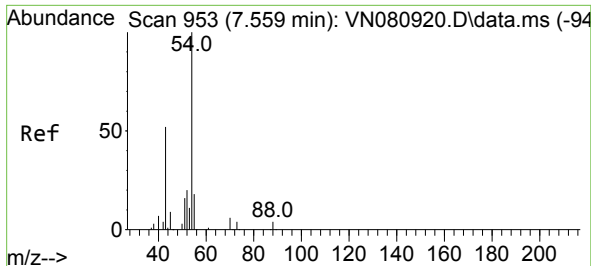
Tgt Ion:113 Resp: 281816
Ion Ratio Lower Upper
113 100
111 102.9 82.2 123.4
192 19.0 12.5 18.7#



#36
1,1-Dichloropropene
Concen: 4.913 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.147 min
Lab File: VN081012.D
Acq: 12 Feb 2024 18:44

Tgt Ion: 75 Resp: 43368
Ion Ratio Lower Upper
75 100
110 9.6 16.0 48.0#
77 0.6 25.8 38.6#

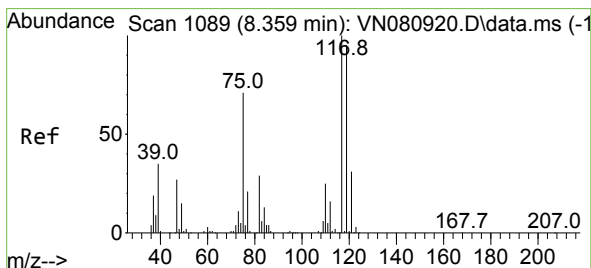
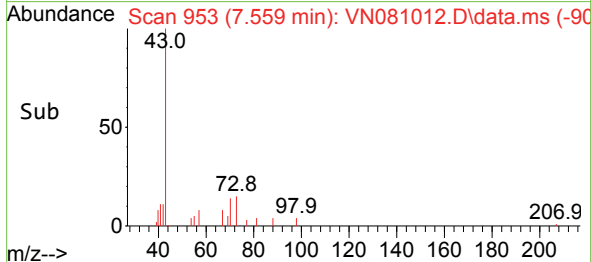
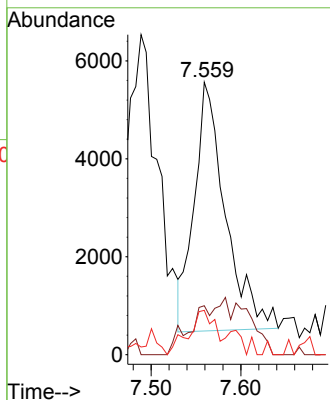
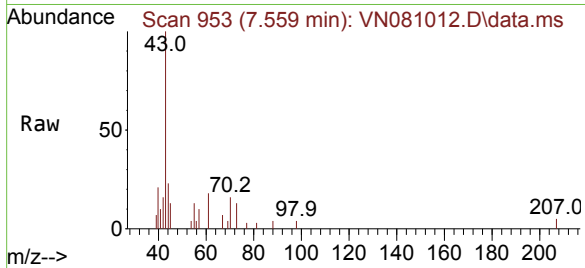




#37
Ethyl Acetate
Concen: 1.841 ug/l
RT: 7.559 min Scan# 91
Delta R.T. 0.000 min
Lab File: VN081012.D
Acq: 12 Feb 2024 18:44

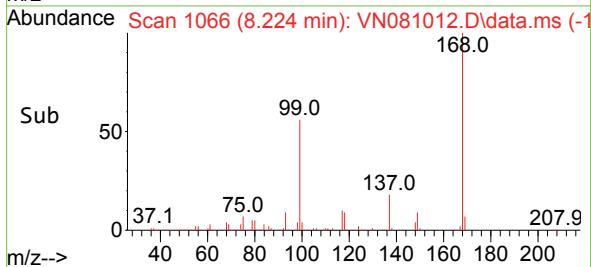
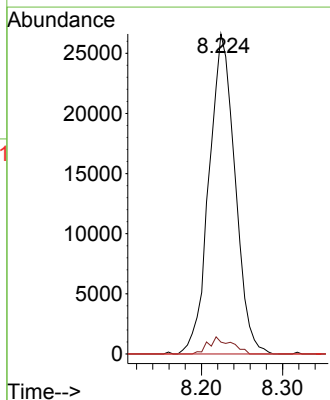
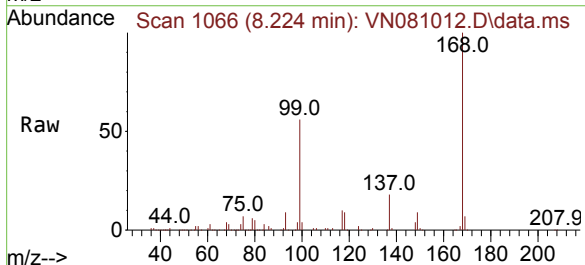
Instrument :
MSVOA_N
ClientSampleId :
TP-3

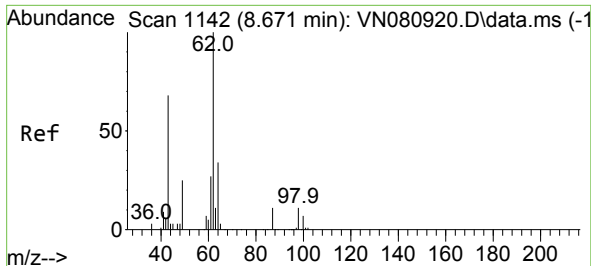
Tgt Ion: 43 Resp: 12295
Ion Ratio Lower Upper
43 100
61 5.0 10.6 15.8#
70 15.7 8.0 12.0#



#38
Carbon Tetrachloride
Concen: 6.539 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.135 min
Lab File: VN081012.D
Acq: 12 Feb 2024 18:44

Tgt Ion: 117 Resp: 59173
Ion Ratio Lower Upper
117 100
119 3.7 73.4 110.2#
121 0.0 24.4 36.6#





#42

1,2-Dichloroethane

Concen: 0.307 ug/l

RT: 8.683 min Scan# 1144

Delta R.T. 0.012 min

Lab File: VN081012.D

Acq: 12 Feb 2024 18:44

Instrument :

MSVOA_N

ClientSampleId :

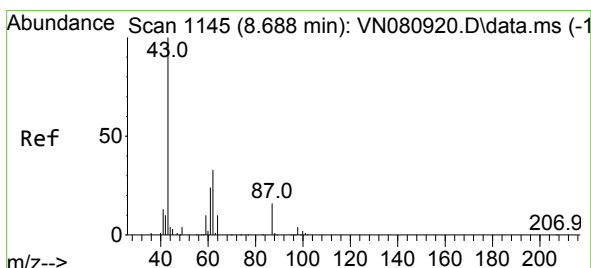
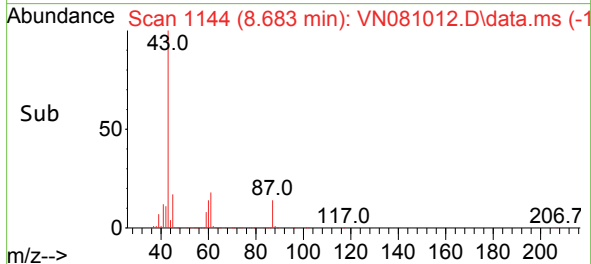
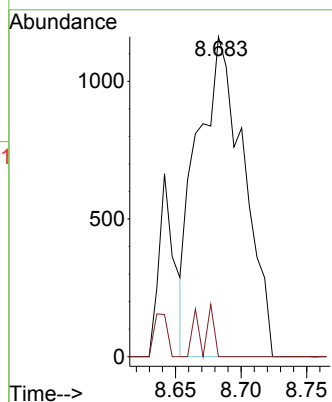
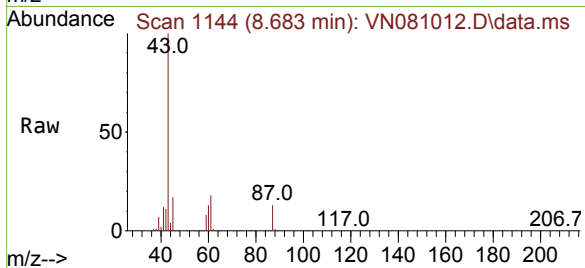
TP-3

Tgt Ion: 62 Resp: 2872

Ion Ratio Lower Upper

62 100

98 4.5 0.0 18.0



#43

Isopropyl Acetate

Concen: 56.557 ug/l

RT: 8.689 min Scan# 1145

Delta R.T. 0.000 min

Lab File: VN081012.D

Acq: 12 Feb 2024 18:44

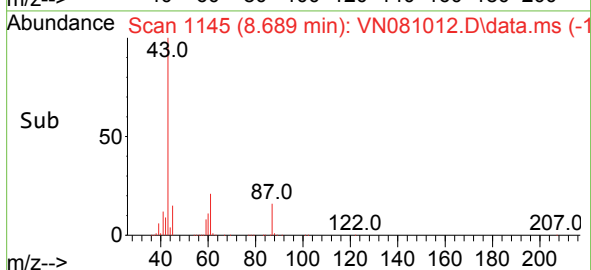
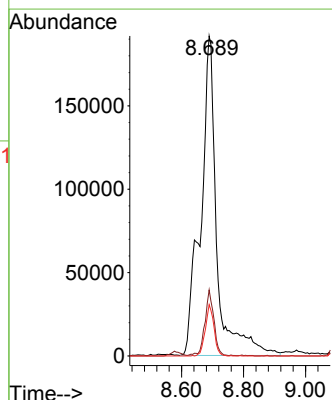
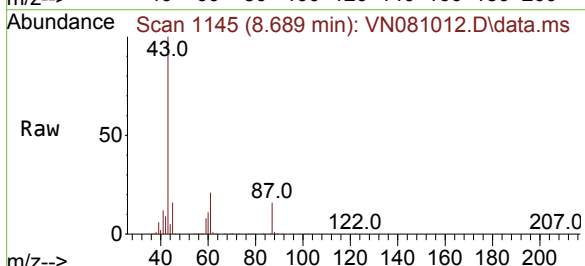
Tgt Ion: 43 Resp: 694626

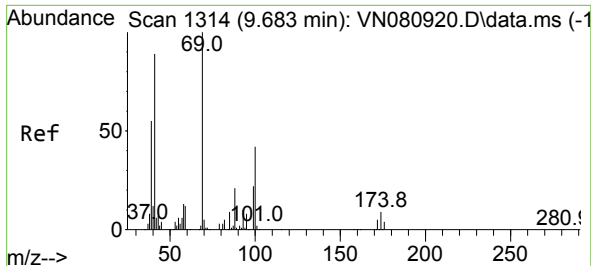
Ion Ratio Lower Upper

43 100

61 11.4 19.9 29.9#

87 8.6 9.0 13.6#

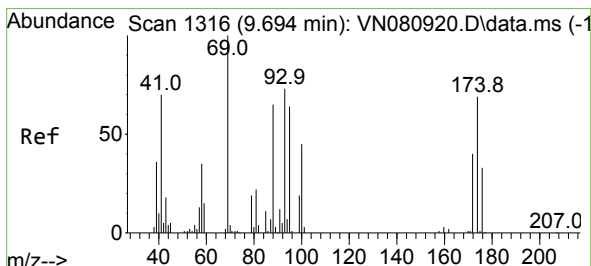
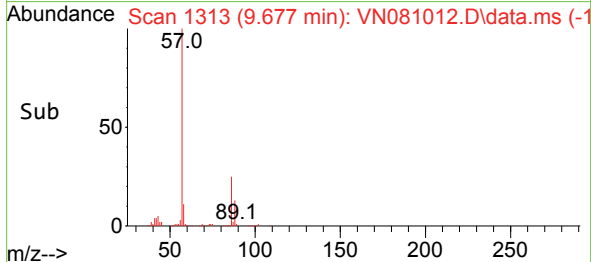
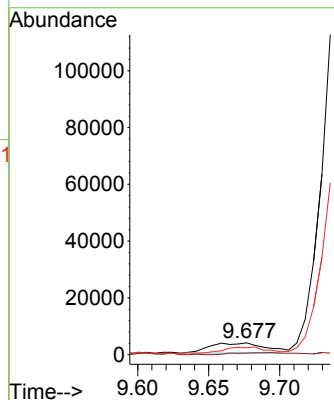
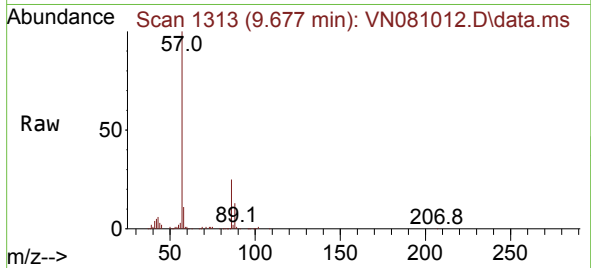




#48
Methyl methacrylate
Concen: 1.374 ug/l
RT: 9.677 min Scan# 1313
Delta R.T. -0.006 min
Lab File: VN081012.D
Acq: 12 Feb 2024 18:44

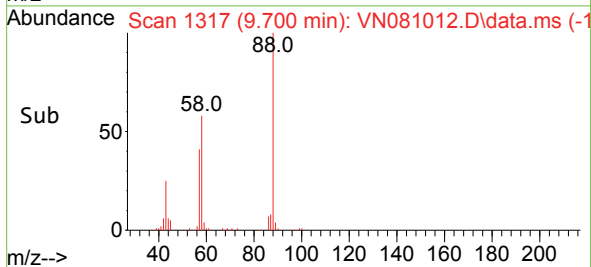
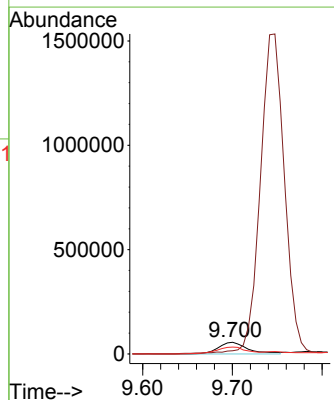
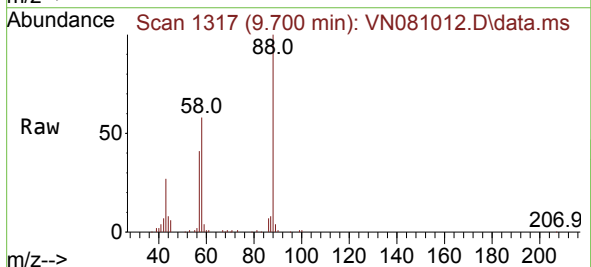
Instrument :
MSVOA_N
ClientSampleId :
TP-3

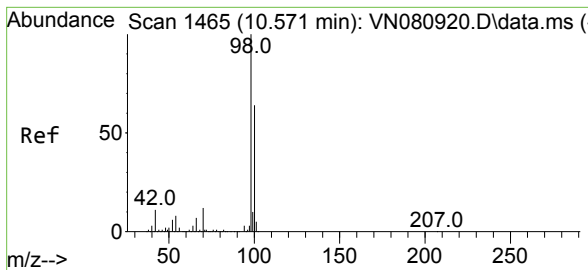
Tgt Ion: 41 Resp: 9506
Ion Ratio Lower Upper
41 100
69 22.8 62.2 93.2#
39 52.9 47.6 71.4



#49
1,4-Dioxane
Concen: 999.110 ug/l
RT: 9.700 min Scan# 1317
Delta R.T. 0.006 min
Lab File: VN081012.D
Acq: 12 Feb 2024 18:44

Tgt Ion: 88 Resp: 127654
Ion Ratio Lower Upper
88 100
43 0.0 30.1 45.1#
58 60.9 63.9 95.9#

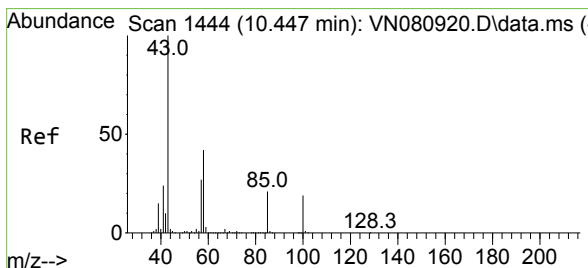
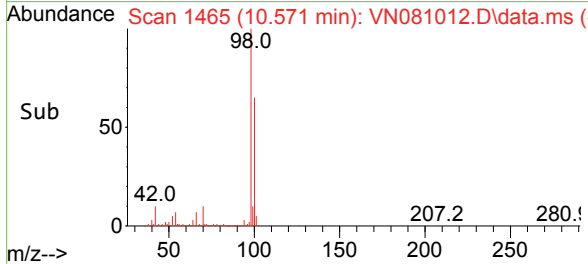
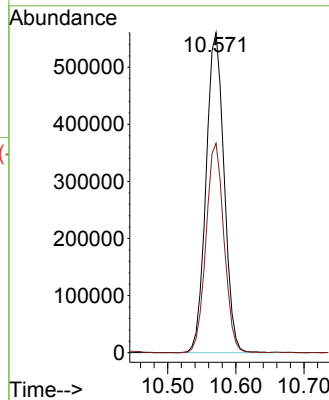
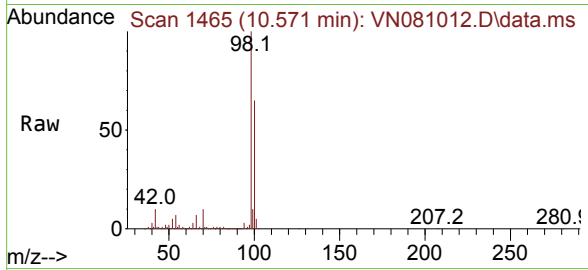




#50
Toluene-d8
Concen: 48.008 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. 0.000 min
Lab File: VN081012.D
Acq: 12 Feb 2024 18:44

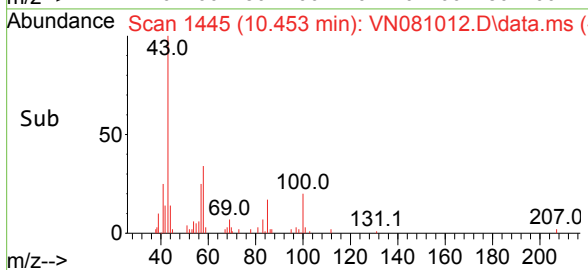
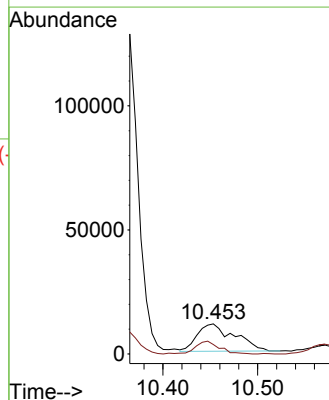
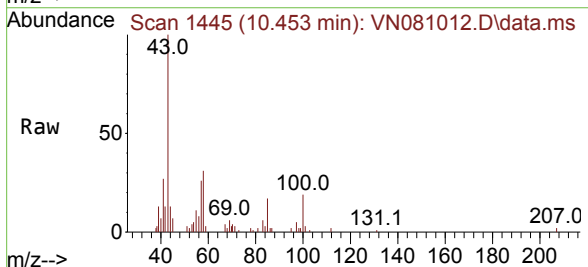
Instrument :
MSVOA_N
ClientSampleId :
TP-3

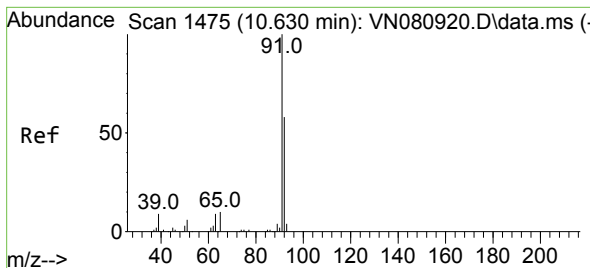
Tgt Ion: 98 Resp: 1030328
Ion Ratio Lower Upper
98 100
100 65.5 51.4 77.0



#51
4-Methyl-2-Pentanone
Concen: 4.097 ug/l
RT: 10.453 min Scan# 1445
Delta R.T. 0.006 min
Lab File: VN081012.D
Acq: 12 Feb 2024 18:44

Tgt Ion: 43 Resp: 30326
Ion Ratio Lower Upper
43 100
58 29.9 29.4 44.0





#52

Toluene

Concen: 0.229 ug/l

RT: 10.636 min Scan# 1475

Delta R.T. 0.006 min

Lab File: VN081012.D

Acq: 12 Feb 2024 18:44

Instrument :

MSVOA_N

ClientSampleId :

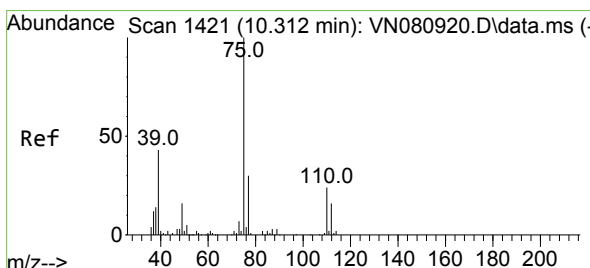
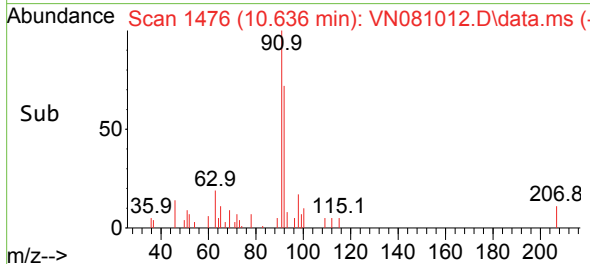
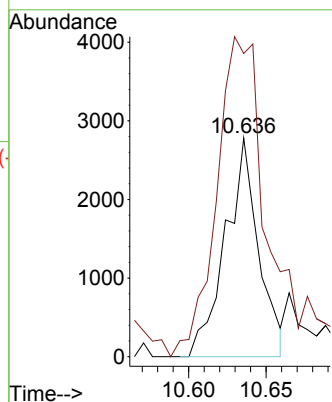
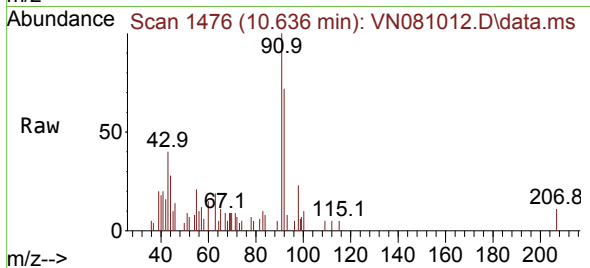
TP-3

Tgt Ion: 92 Resp: 4121

Ion Ratio Lower Upper

92 100

91 231.0 139.4 209.0#



#54

cis-1,3-Dichloropropene

Concen: 13.095 ug/l

RT: 10.359 min Scan# 1429

Delta R.T. 0.047 min

Lab File: VN081012.D

Acq: 12 Feb 2024 18:44

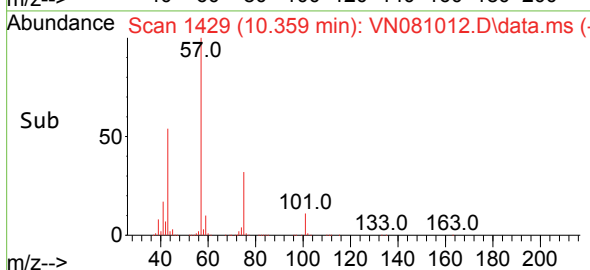
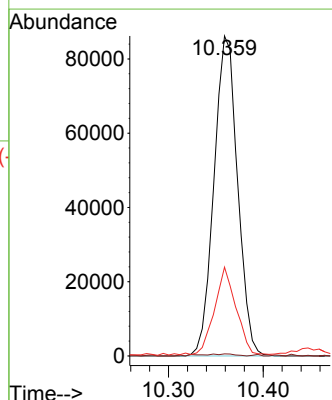
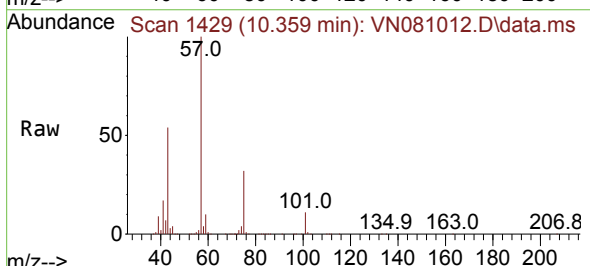
Tgt Ion: 75 Resp: 149141

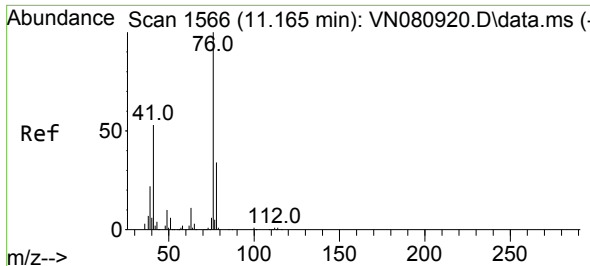
Ion Ratio Lower Upper

75 100

77 0.4 23.3 34.9#

39 27.3 44.6 66.8#





#57

1,3-Dichloropropane

Concen: 1.420 ug/l

RT: 11.206 min Scan# 1573

Delta R.T. 0.041 min

Lab File: VN081012.D

Acq: 12 Feb 2024 18:44

Instrument :

MSVOA_N

ClientSampleId :

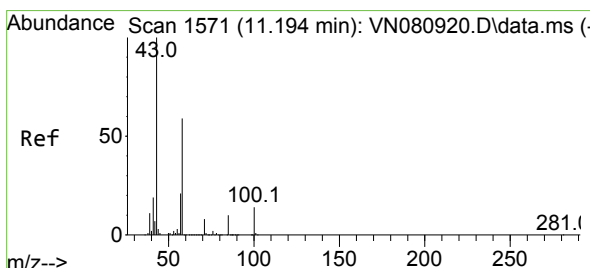
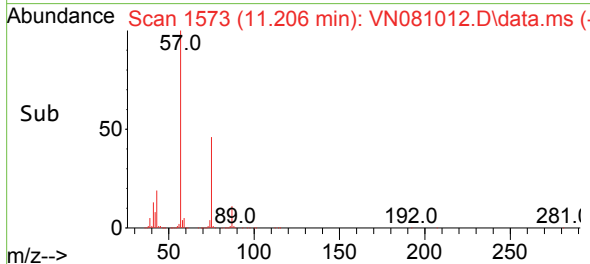
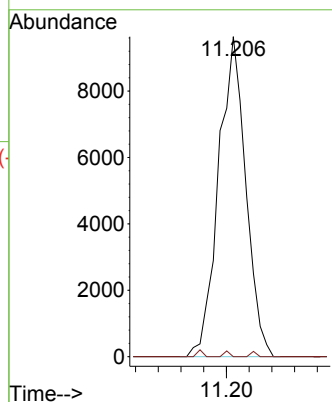
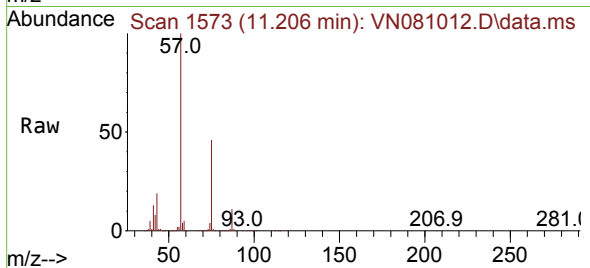
TP-3

Tgt Ion: 76 Resp: 16025

Ion Ratio Lower Upper

76 100

78 0.4 25.5 38.3#



#59

2-Hexanone

Concen: 53.559 ug/l

RT: 11.177 min Scan# 1568

Delta R.T. -0.018 min

Lab File: VN081012.D

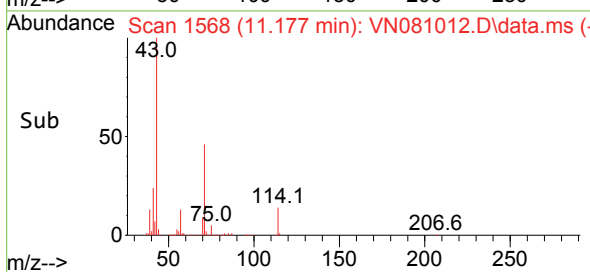
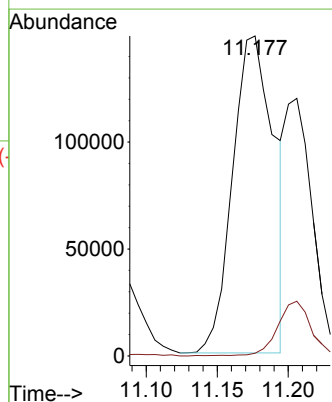
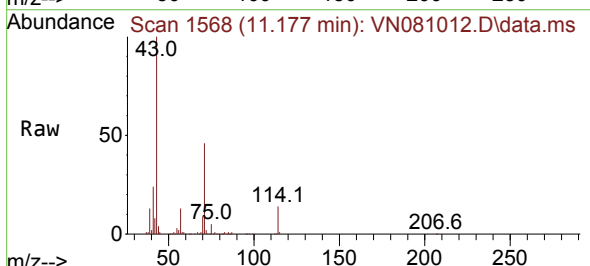
Acq: 12 Feb 2024 18:44

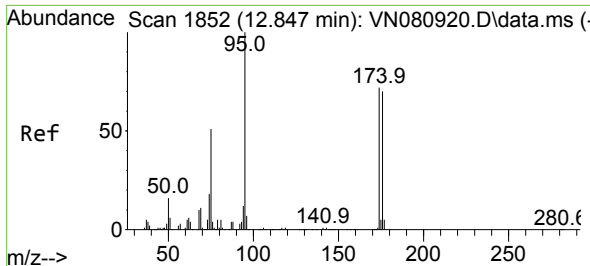
Tgt Ion: 43 Resp: 300462

Ion Ratio Lower Upper

43 100

58 0.0 25.9 77.8#

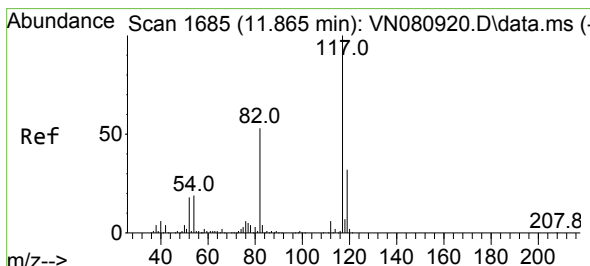
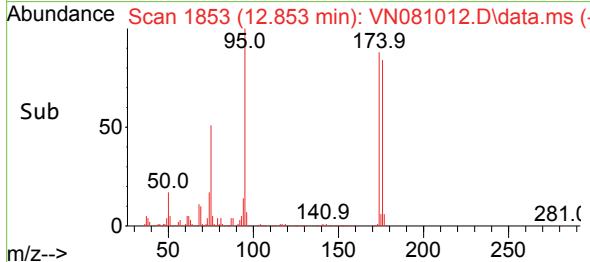
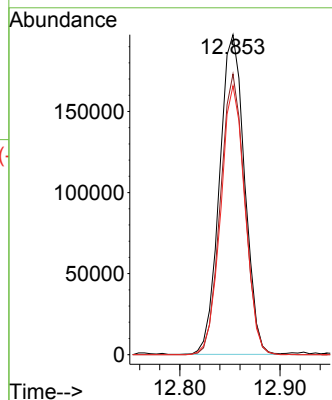
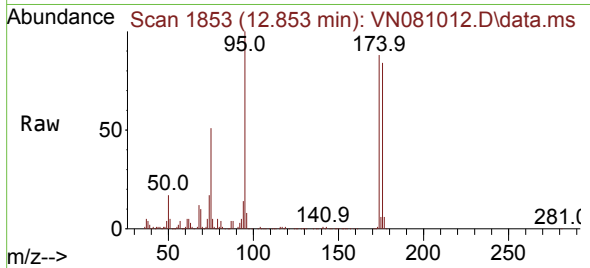




#62
4-Bromofluorobenzene
Concen: 43.876 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.006 min
Lab File: VN081012.D
Acq: 12 Feb 2024 18:44

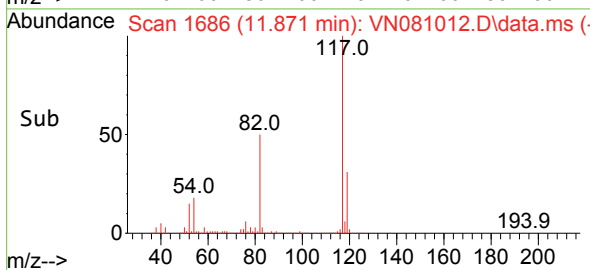
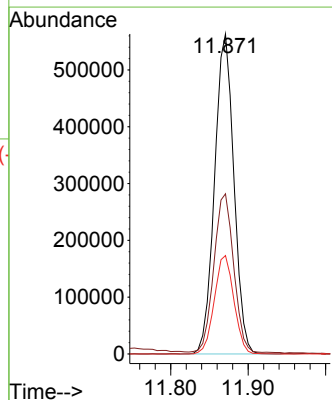
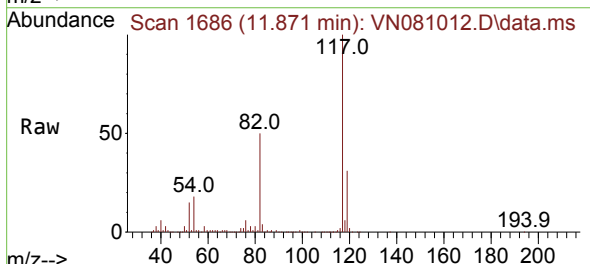
Instrument :
MSVOA_N
ClientSampleId :
TP-3

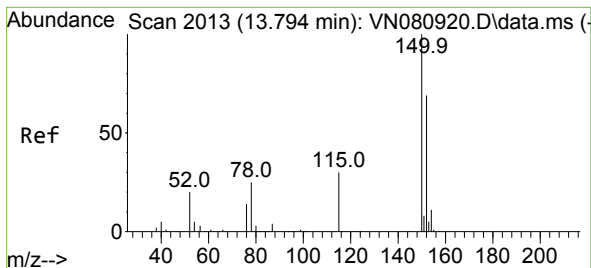
Tgt Ion: 95 Resp: 342078
Ion Ratio Lower Upper
95 100
174 84.8 0.0 120.4
176 81.2 0.0 121.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 1686
Delta R.T. 0.006 min
Lab File: VN081012.D
Acq: 12 Feb 2024 18:44

Tgt Ion: 117 Resp: 975583
Ion Ratio Lower Upper
117 100
82 49.6 52.7 79.1#
119 30.8 25.3 37.9





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.794 min Scan# 20

Delta R.T. 0.000 min

Lab File: VN081012.D

Acq: 12 Feb 2024 18:44

Instrument :

MSVOA_N

ClientSampleId :

TP-3

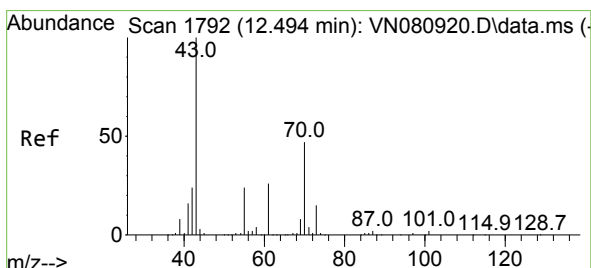
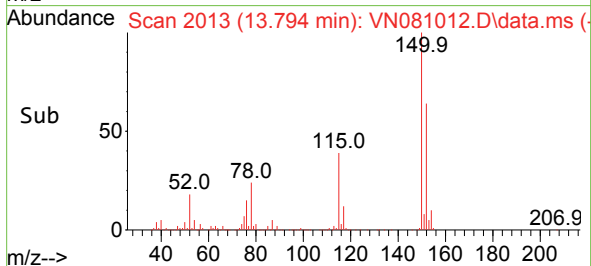
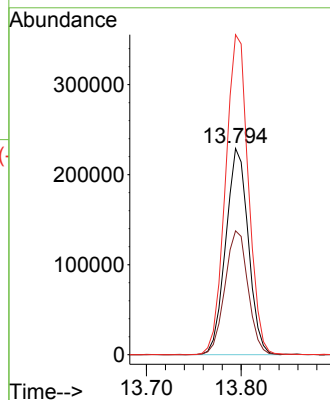
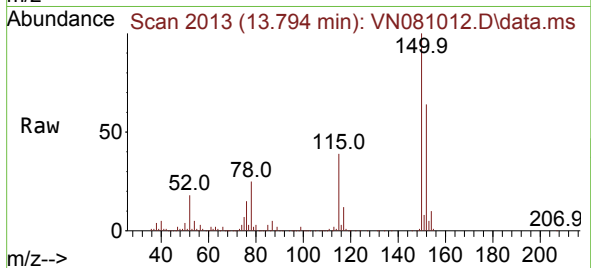
Tgt Ion:152 Resp: 379019

Ion Ratio Lower Upper

152 100

115 61.5 32.3 96.8

150 157.4 0.0 339.8



#74

N-ethyl acetate

Concen: 0.343 ug/l

RT: 12.465 min Scan# 1787

Delta R.T. -0.029 min

Lab File: VN081012.D

Acq: 12 Feb 2024 18:44

Tgt Ion: 43 Resp: 3648

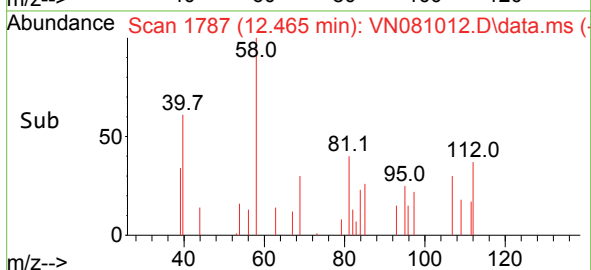
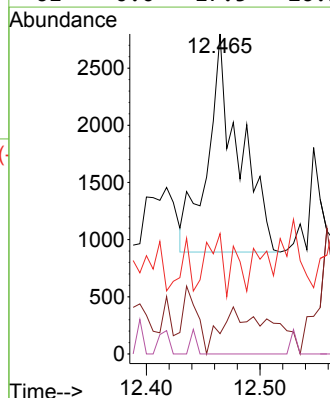
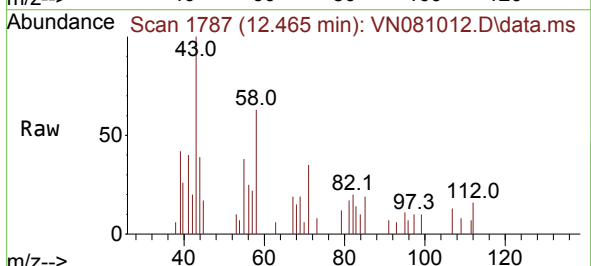
Ion Ratio Lower Upper

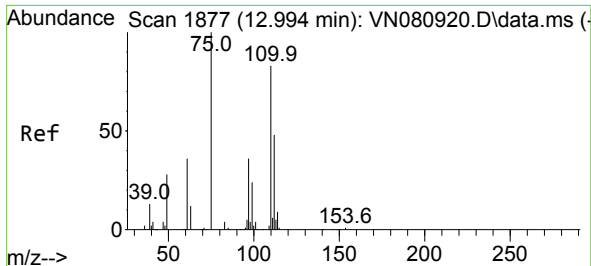
43 100

70 16.2 30.1 45.1#

55 15.0 17.0 25.4#

61 0.0 17.5 26.3#

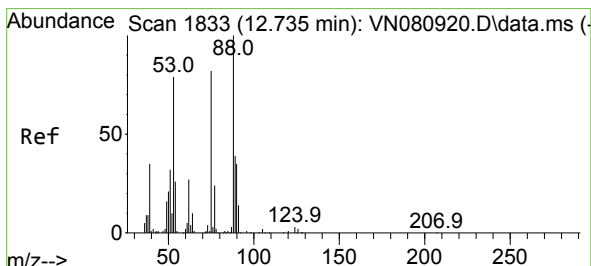
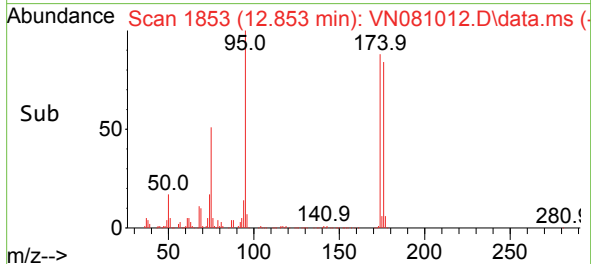
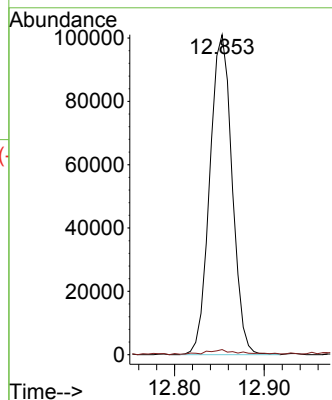
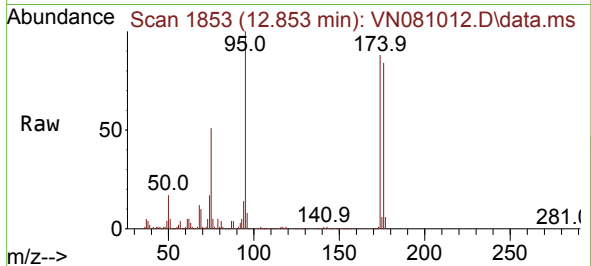




#76
1,2,3-Trichloropropane
Concen: 22.572 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.141 min
Lab File: VN081012.D
Acq: 12 Feb 2024 18:44

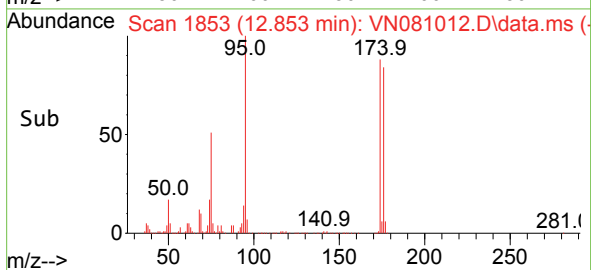
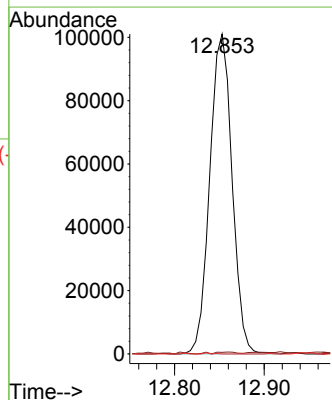
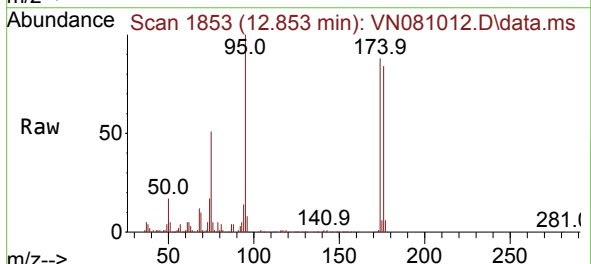
Instrument :
MSVOA_N
ClientSampleId :
TP-3

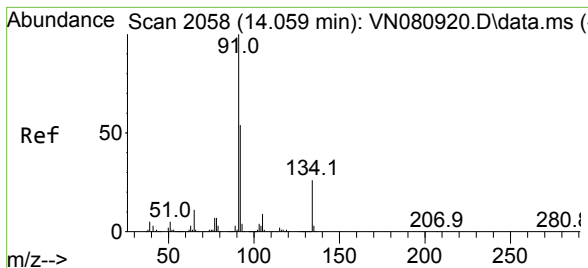
Tgt Ion: 75 Resp: 174439
Ion Ratio Lower Upper
75 100
77 2.7 91.0 272.8#



#81
trans-1,4-Dichloro-2-butene
Concen: 61.326 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.118 min
Lab File: VN081012.D
Acq: 12 Feb 2024 18:44

Tgt Ion: 75 Resp: 174439
Ion Ratio Lower Upper
75 100
53 0.5 71.4 107.2#
89 0.0 33.4 50.0#





#89

n-Butylbenzene

Concen: 0.671 ug/l

RT: 14.041 min Scan# 2055

Delta R.T. -0.018 min

Lab File: VN081012.D

Acq: 12 Feb 2024 18:44

Instrument :

MSVOA_N

ClientSampleId :

TP-3

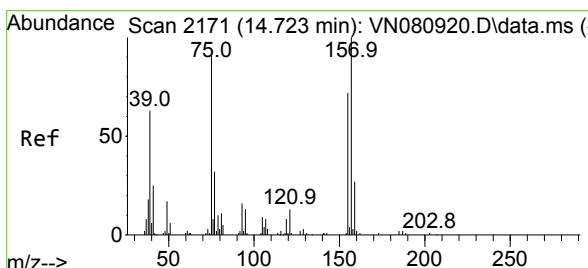
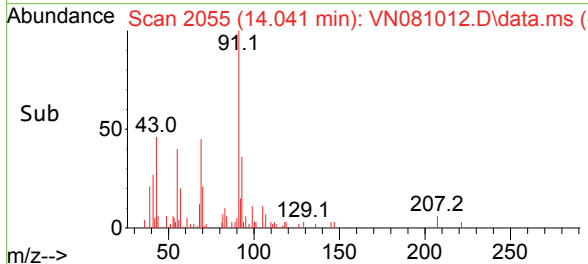
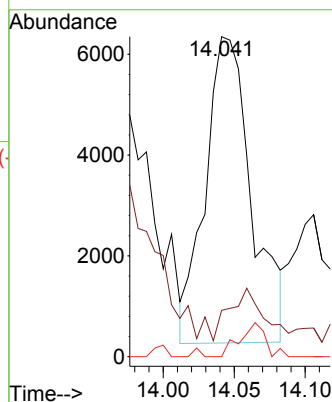
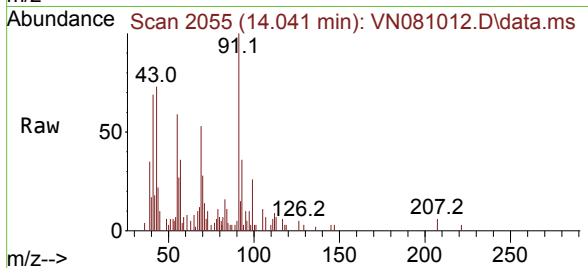
Tgt Ion: 91 Resp: 13751

Ion Ratio Lower Upper

91 100

92 0.0 26.7 80.1#

134 0.4 10.8 32.4#



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.504 ug/l

RT: 14.718 min Scan# 2170

Delta R.T. -0.006 min

Lab File: VN081012.D

Acq: 12 Feb 2024 18:44

Tgt Ion: 75 Resp: 864

Ion Ratio Lower Upper

75 100

155 0.0 31.8 95.4#

157 0.0 41.1 123.4#

