

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021224\
 Data File : VN081010.D
 Acq On : 12 Feb 2024 17:57
 Operator : JC\MD
 Sample : P1446-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RT3475

Quant Time: Feb 13 03:23:27 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)

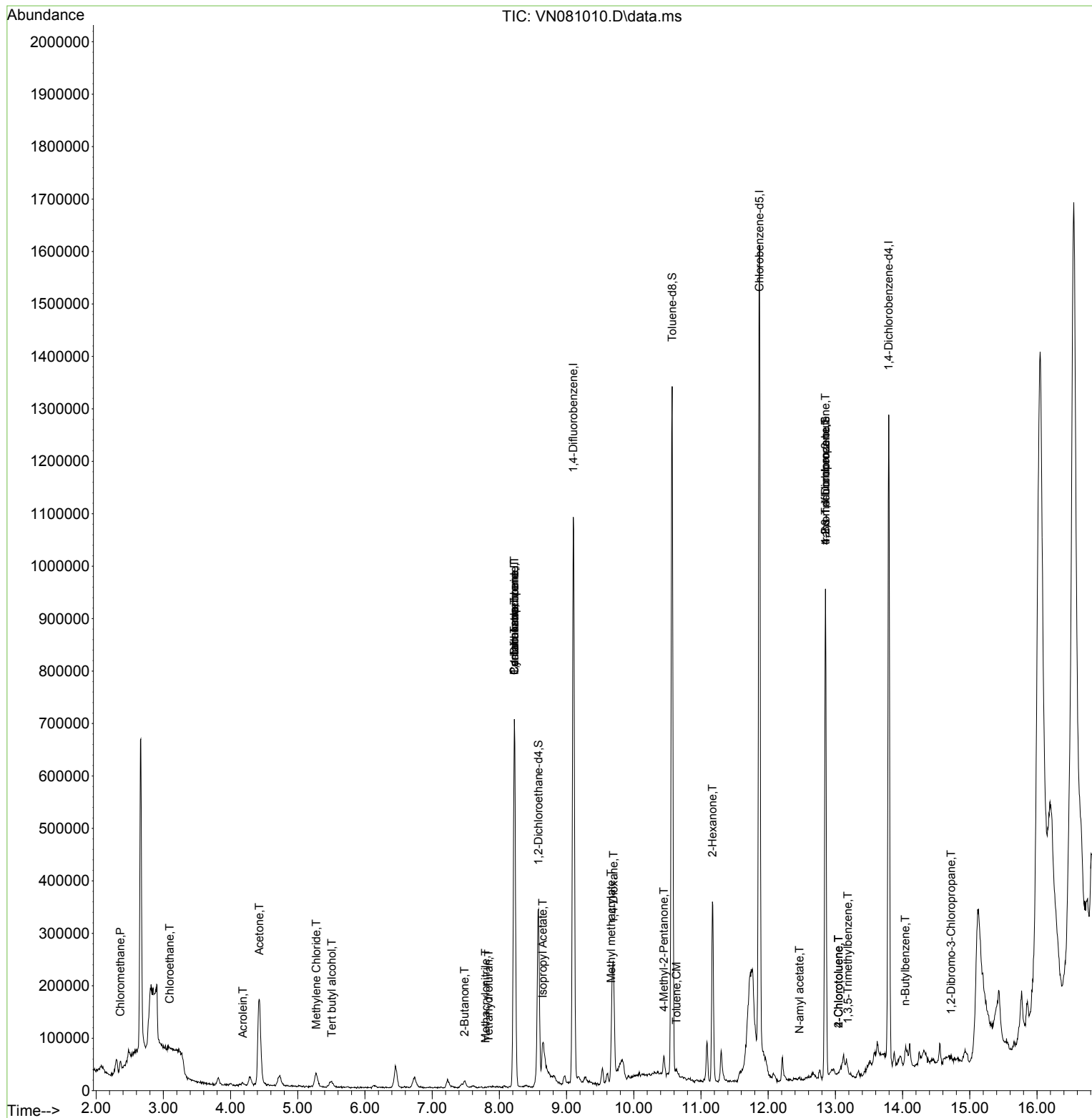
Internal Standards						
1) Pentafluorobenzene	8.224	168	535786	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	9.100	114	1016968	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	948560	50.000	ug/l	# 0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	350838	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	273603	40.480	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	80.960%
35) Dibromofluoromethane	8.153	113	341	0.062	ug/l	-0.01
Spiked Amount	50.000	Range	75 - 124	Recovery	=	0.120%#
50) Toluene-d8	10.571	98	926953	46.961	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	93.920%
62) 4-Bromofluorobenzene	12.853	95	322953	45.039	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	90.080%
Target Compounds						
						Qvalue
3) Chloromethane	2.359	50	18720	1.642	ug/l	90
6) Chloroethane	3.095	64	7284	1.303	ug/l	# 42
11) Tert butyl alcohol	5.506	59	7865	8.446	ug/l	# 86
13) Acrolein	4.183	56	4780	4.072	ug/l	# 39
16) Acetone	4.430	43	318706	143.323	ug/l	94
18) Methyl Acetate	5.024	43	5037	Below Cal	#	79
20) Methylene Chloride	5.277	84	24014	3.564	ug/l	# 74
25) 2-Butanone	7.483	43	20135	5.641	ug/l	# 87
29) Tetrahydrofuran	7.841	42	2594	1.189	ug/l	# 79
31) Cyclohexane	8.224	56	12032	1.303	ug/l	# 1
36) 1,1-Dichloropropene	8.224	75	39837	4.907	ug/l	# 52
38) Carbon Tetrachloride	8.224	117	56369	6.773	ug/l	# 19
41) Methacrylonitrile	7.794	41	1137	0.311	ug/l	# 57
43) Isopropyl Acetate	8.647	43	105965	9.381	ug/l	# 59
48) Methyl methacrylate	9.665	41	13474	2.117	ug/l	# 51
49) 1,4-Dioxane	9.700	88	175030	1489.496	ug/l	# 80
51) 4-Methyl-2-Pentanone	10.447	43	23669	3.477	ug/l	91
52) Toluene	10.635	92	5901	0.357	ug/l	96
59) 2-Hexanone	11.171	43	259032	50.205	ug/l	# 26
74) N-amyl acetate	12.465	43	3119	0.317	ug/l	# 58
76) 1,2,3-Trichloropropane	12.853	75	158638	22.177	ug/l	# 1
79) 2-Chlorotoluene	13.047	91	4426	0.227	ug/l	84
80) 1,3,5-Trimethylbenzene	13.188	105	4803	0.217	ug/l	87
81) trans-1,4-Dichloro-2-b...	12.853	75	158638	60.251	ug/l	# 14
82) 4-Chlorotoluene	13.047	91	4426	0.228	ug/l	79
89) n-Butylbenzene	14.041	91	9225	0.486	ug/l	# 43
92) 1,2-Dibromo-3-Chloropr...	14.723	75	595	0.375	ug/l	# 35

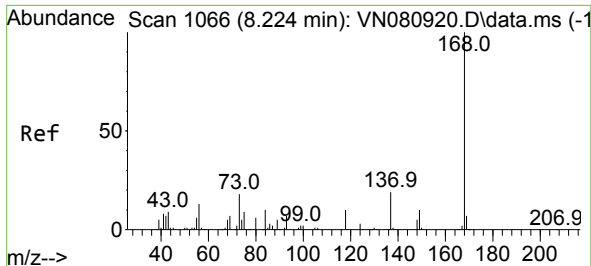
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021224\
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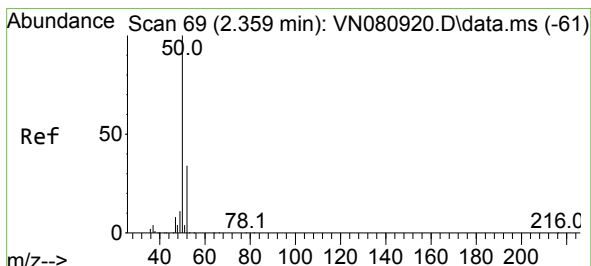
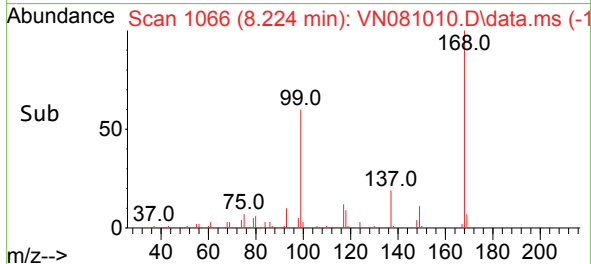
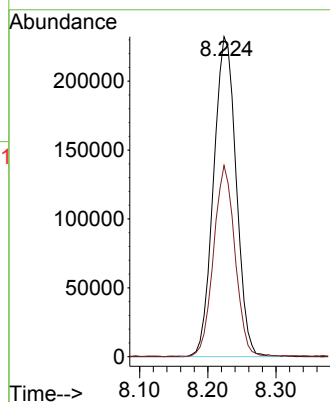
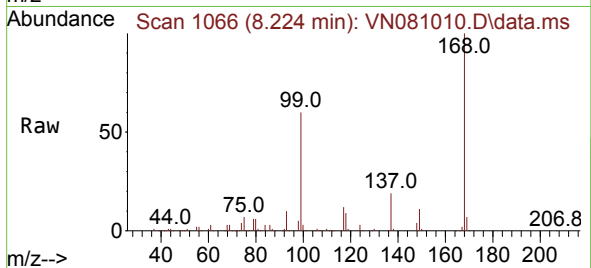




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN081010.D
Acq: 12 Feb 2024 17:57

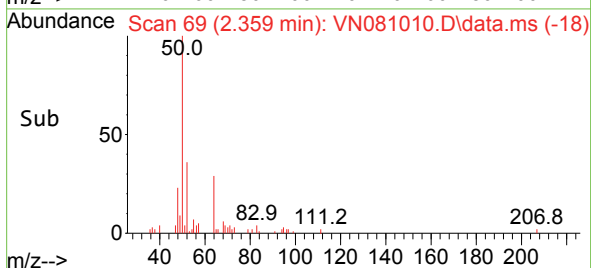
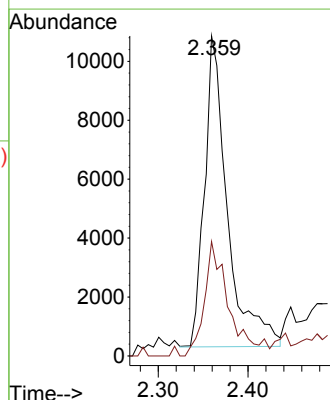
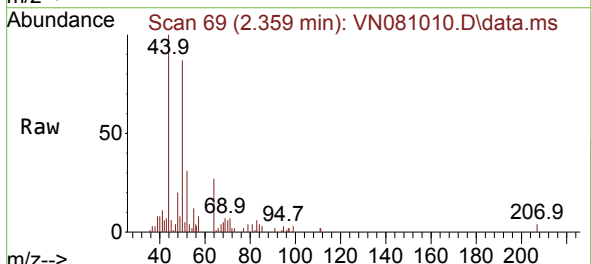
Instrument :
MSVOA_N
ClientSampleId :
RT3475

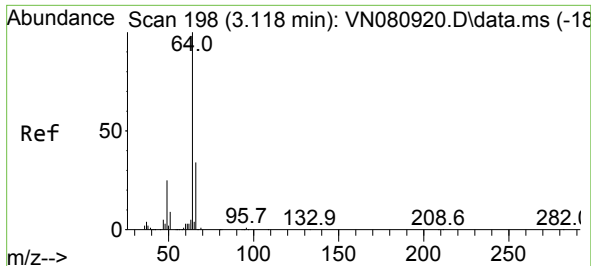
Tgt Ion:168 Resp: 535786
Ion Ratio Lower Upper
168 100
99 59.6 59.9 89.9#



#3
Chloromethane
Concen: 1.642 ug/l
RT: 2.359 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN081010.D
Acq: 12 Feb 2024 17:57

Tgt Ion: 50 Resp: 18720
Ion Ratio Lower Upper
50 100
52 36.9 25.0 37.4

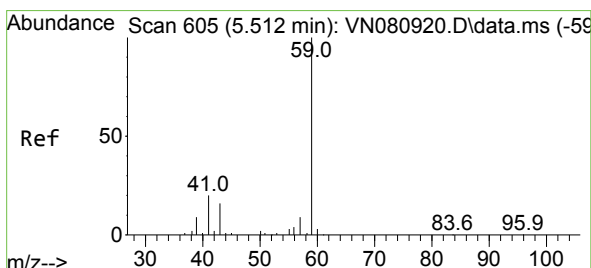
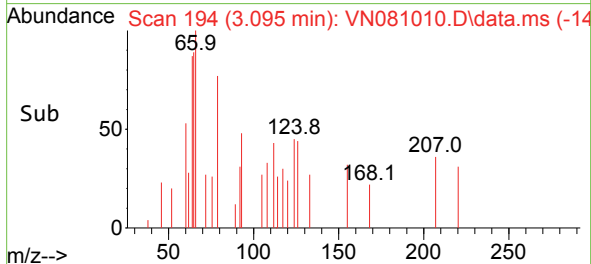
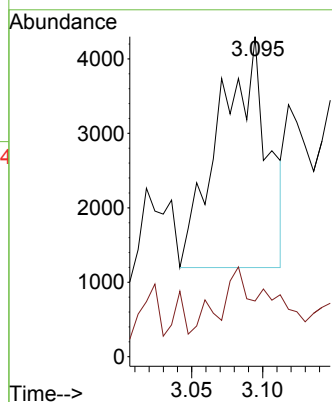
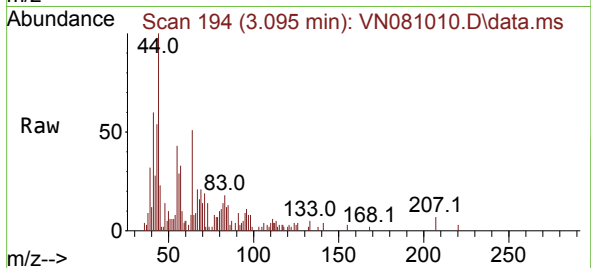




#6
Chloroethane
Concen: 1.303 ug/l
RT: 3.095 min Scan# 194
Delta R.T. -0.024 min
Lab File: VN081010.D
Acq: 12 Feb 2024 17:57

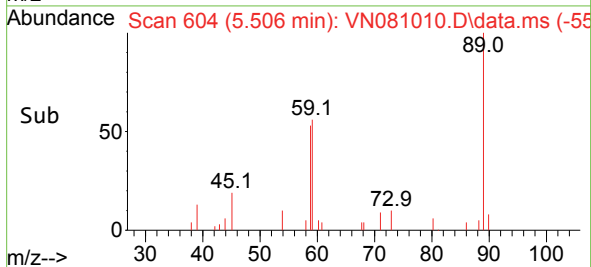
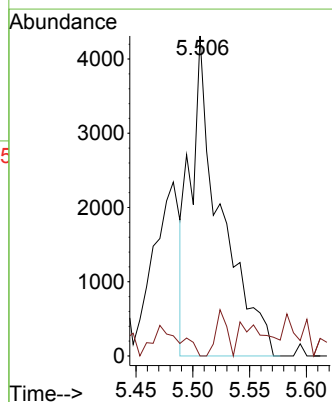
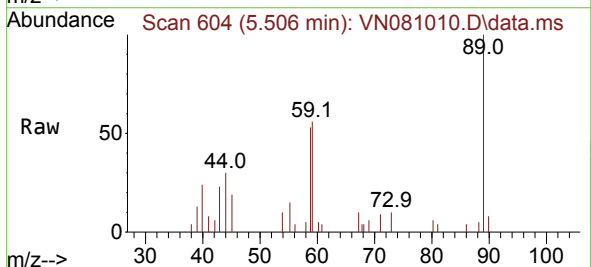
Instrument :
MSVOA_N
ClientSampleId :
RT3475

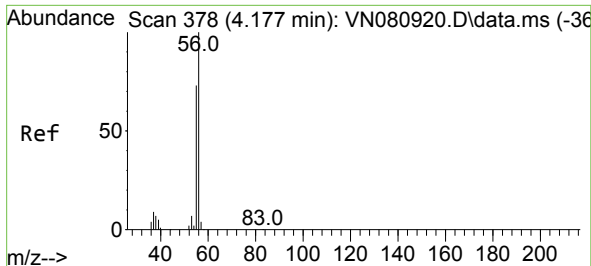
Tgt Ion: 64 Resp: 7284
Ion Ratio Lower Upper
64 100
66 0.0 26.4 39.6#



#11
Tert butyl alcohol
Concen: 8.446 ug/l
RT: 5.506 min Scan# 604
Delta R.T. -0.006 min
Lab File: VN081010.D
Acq: 12 Feb 2024 17:57

Tgt Ion: 59 Resp: 7865
Ion Ratio Lower Upper
59 100
57 5.3 8.6 12.8#





#13

Acrolein

Concen: 4.072 ug/l

RT: 4.183 min Scan# 31

Delta R.T. 0.006 min

Lab File: VN081010.D

Acq: 12 Feb 2024 17:57

Instrument :

MSVOA_N

ClientSampleId :

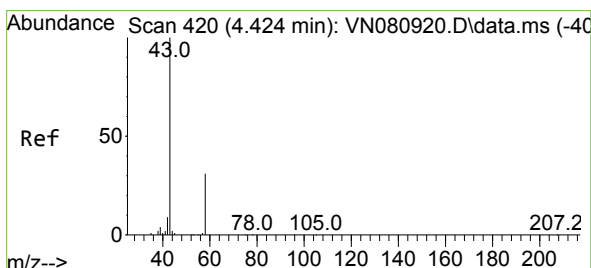
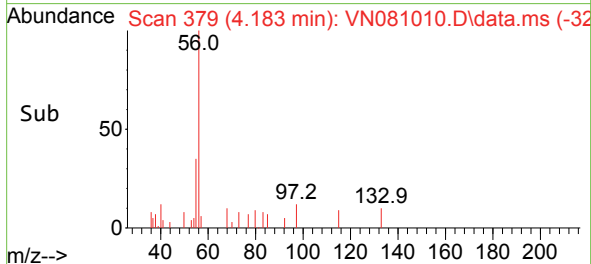
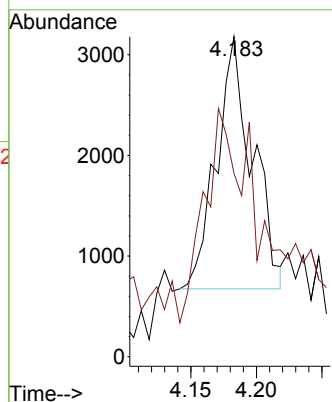
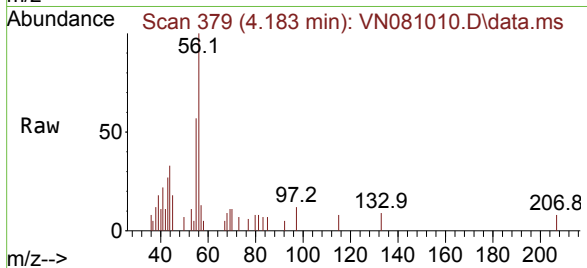
RT3475

Tgt Ion: 56 Resp: 4780

Ion Ratio Lower Upper

56 100

55 118.7 55.3 82.9#



#16

Acetone

Concen: 143.323 ug/l

RT: 4.430 min Scan# 421

Delta R.T. 0.006 min

Lab File: VN081010.D

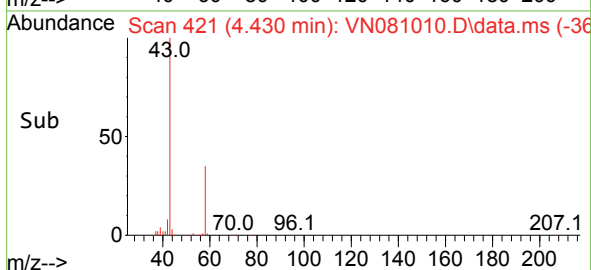
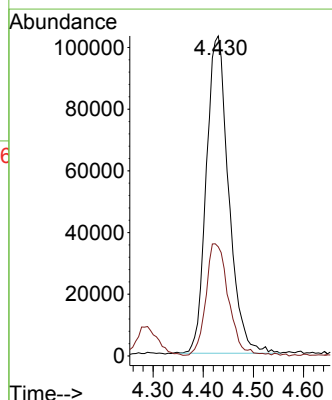
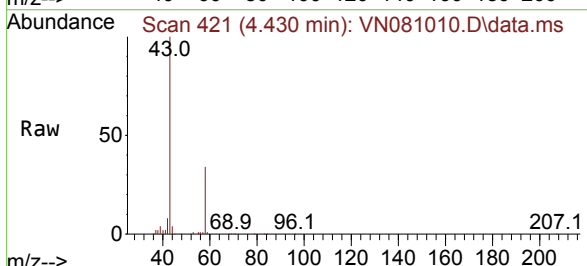
Acq: 12 Feb 2024 17:57

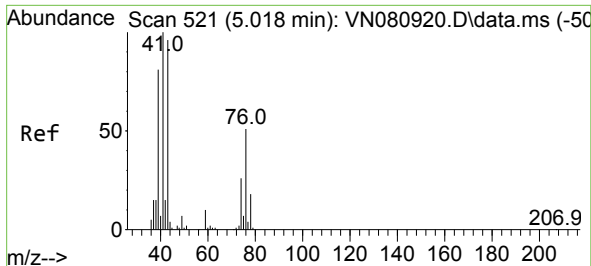
Tgt Ion: 43 Resp: 318706

Ion Ratio Lower Upper

43 100

58 34.1 24.8 37.2

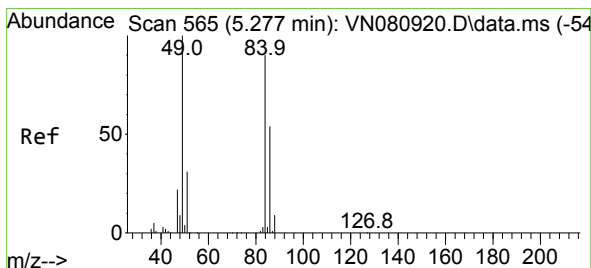
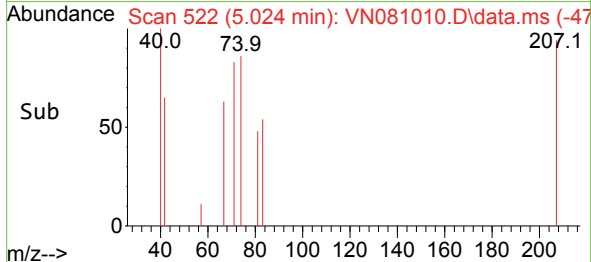
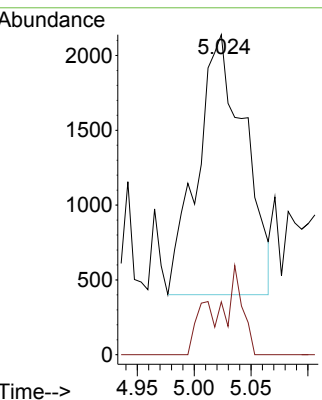
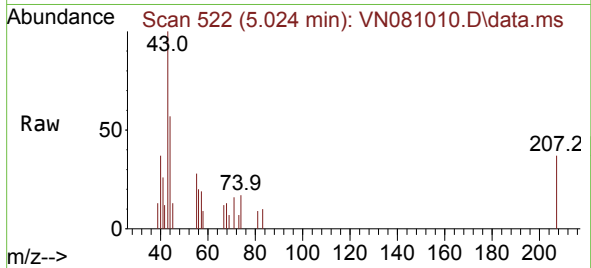




#18
Methyl Acetate
Concen: Below Cal
RT: 5.024 min Scan# 511
Delta R.T. 0.006 min
Lab File: VN081010.D
Acq: 12 Feb 2024 17:57

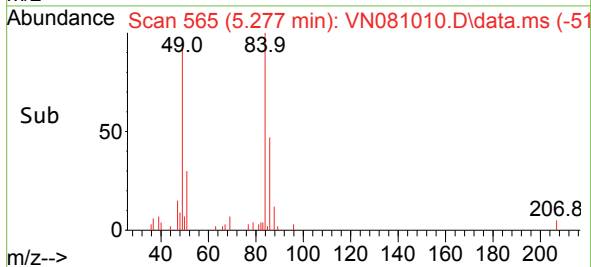
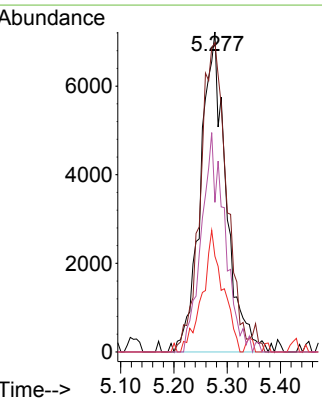
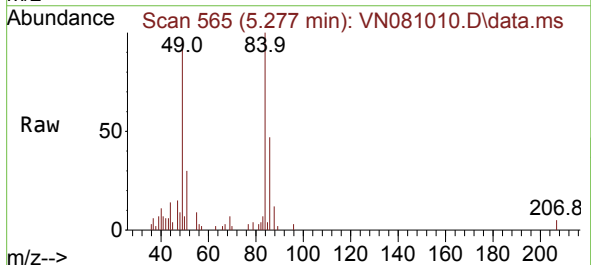
Instrument :
MSVOA_N
ClientSampleId :
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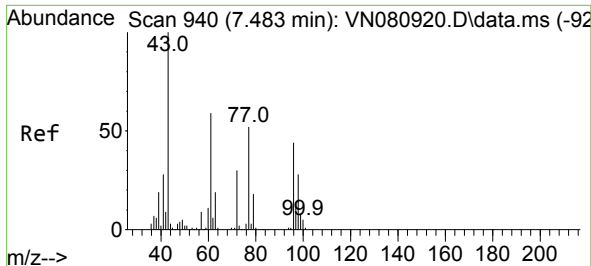
Tgt Ion: 43 Resp: 5037
Ion Ratio Lower Upper
43 100
74 11.8 17.3 25.9#



#20
Methylene Chloride
Concen: 3.564 ug/l
RT: 5.277 min Scan# 565
Delta R.T. -0.000 min
Lab File: VN081010.D
Acq: 12 Feb 2024 17:57

Tgt Ion: 84 Resp: 24014
Ion Ratio Lower Upper
84 100
49 96.7 108.1 162.1#
51 29.9 32.9 49.3#
86 46.7 48.6 73.0#

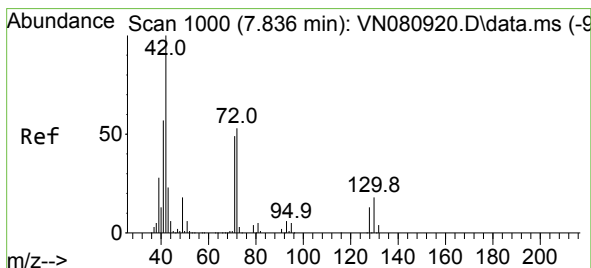
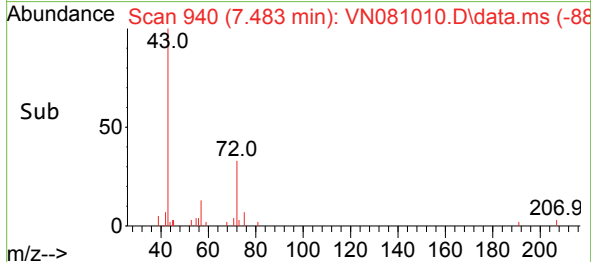
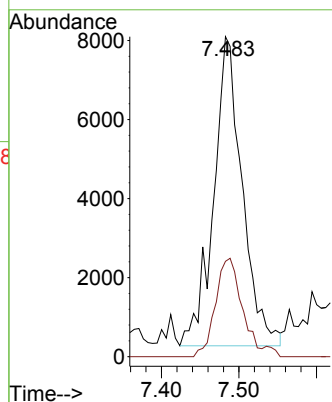
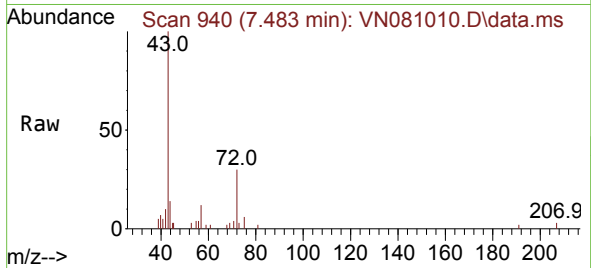




#25
2-Butanone
Concen: 5.641 ug/l
RT: 7.483 min Scan# 94
Delta R.T. -0.000 min
Lab File: VN081010.D
Acq: 12 Feb 2024 17:57

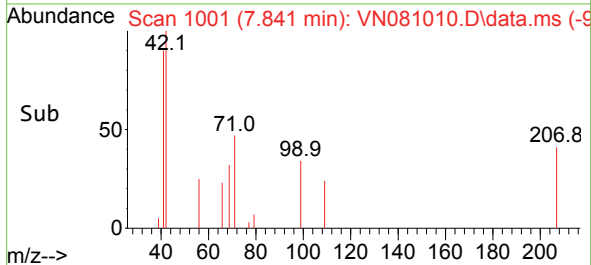
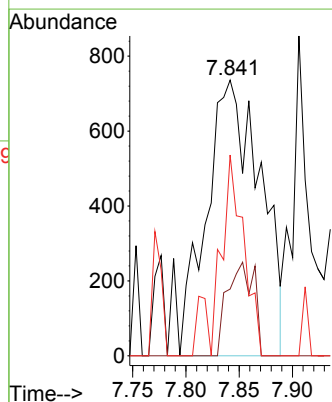
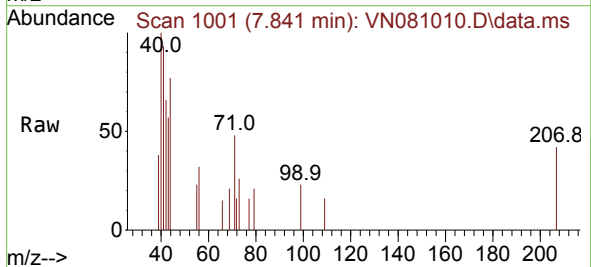
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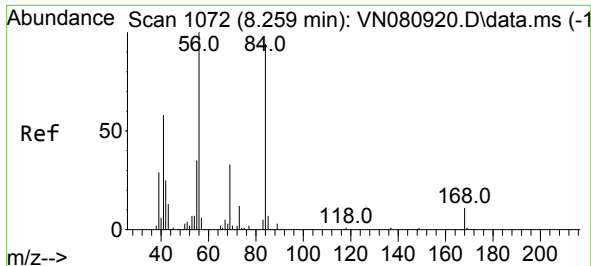
Tgt Ion: 43 Resp: 20135
Ion Ratio Lower Upper
43 100
72 30.9 19.5 29.3#



#29
Tetrahydrofuran
Concen: 1.189 ug/l
RT: 7.841 min Scan# 1001
Delta R.T. 0.006 min
Lab File: VN081010.D
Acq: 12 Feb 2024 17:57

Tgt Ion: 42 Resp: 2594
Ion Ratio Lower Upper
42 100
72 16.6 31.1 46.7#
71 33.5 28.3 42.5

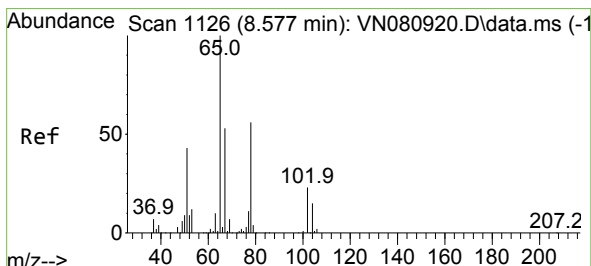
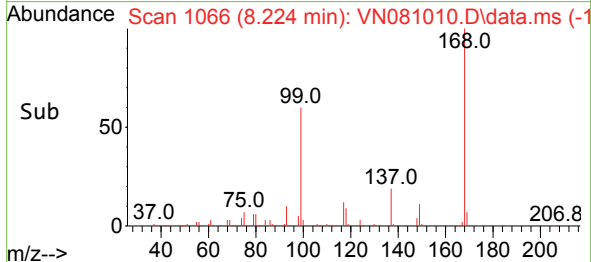
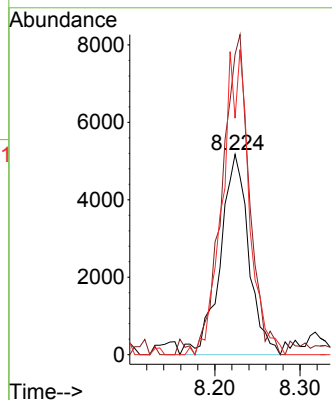
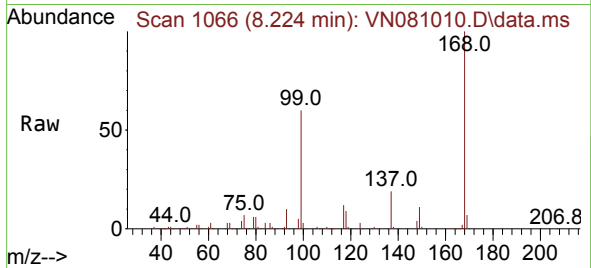




#31
Cyclohexane
Concen: 1.303 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.035 min
Lab File: VN081010.D
Acq: 12 Feb 2024 17:57

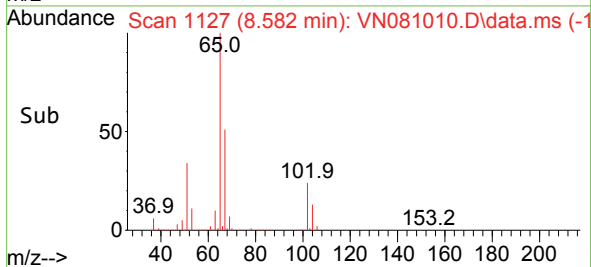
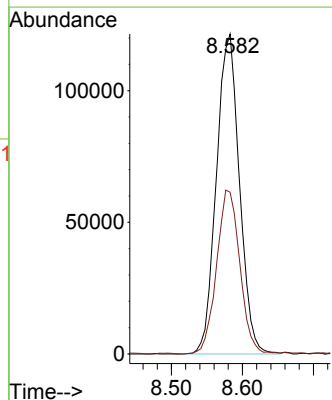
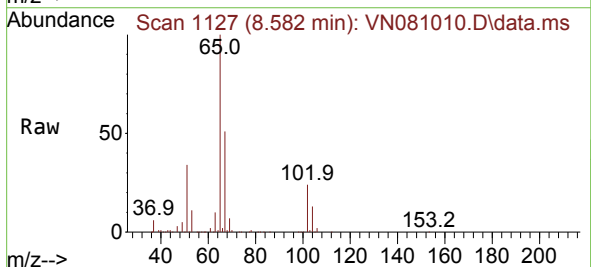
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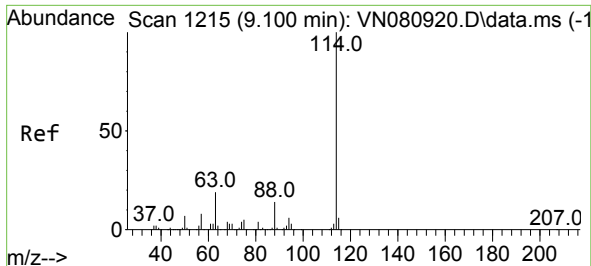
Tgt Ion: 56 Resp: 12032
Ion Ratio Lower Upper
56 100
69 149.9 20.1 30.1#
84 118.1 56.9 85.3#



#33
1,2-Dichloroethane-d4
Concen: 40.480 ug/l
RT: 8.582 min Scan# 1127
Delta R.T. 0.006 min
Lab File: VN081010.D
Acq: 12 Feb 2024 17:57

Tgt Ion: 65 Resp: 273603
Ion Ratio Lower Upper
65 100
67 51.9 0.0 102.4

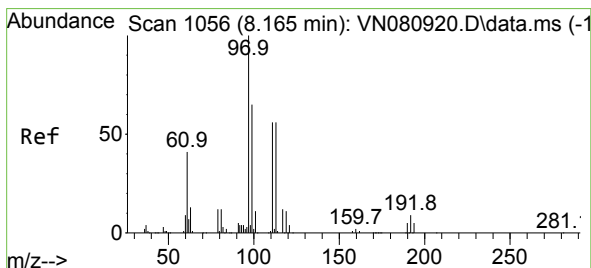
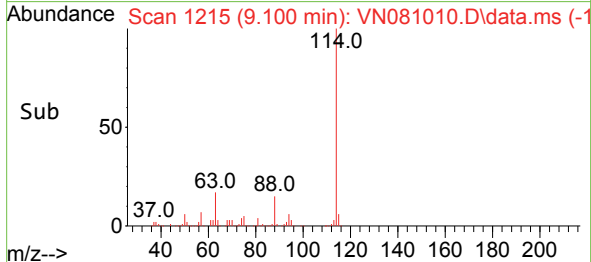
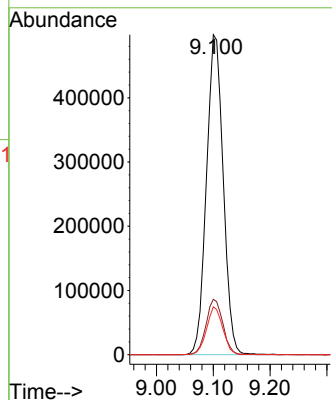
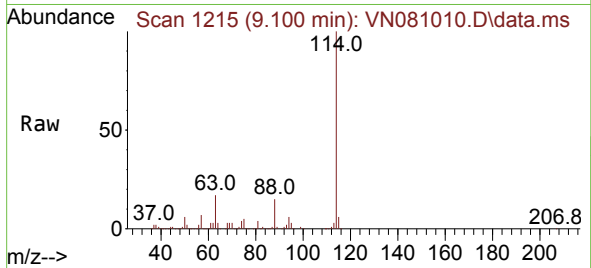




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN081010.D
Acq: 12 Feb 2024 17:57

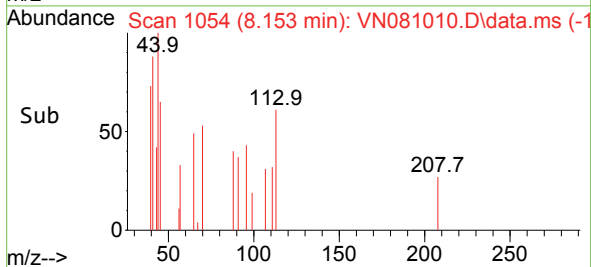
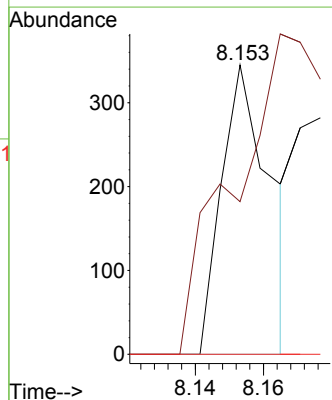
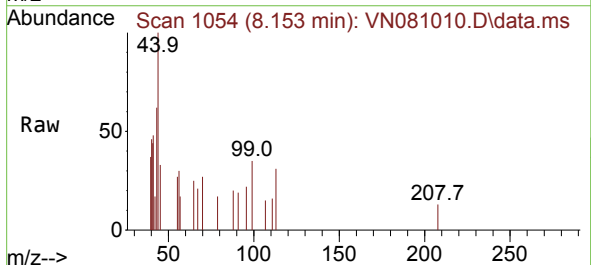
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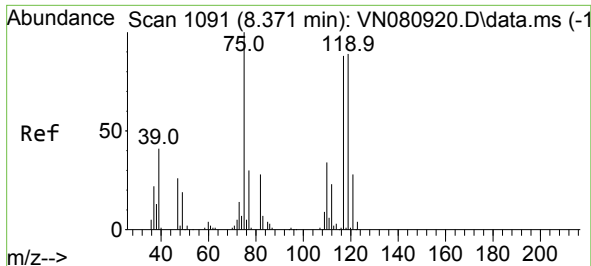
Tgt Ion:114 Resp: 1016968
Ion Ratio Lower Upper
114 100
63 17.3 0.0 48.0
88 15.0 0.0 34.8



#35
Dibromofluoromethane
Concen: 0.062 ug/l
RT: 8.153 min Scan# 1054
Delta R.T. -0.012 min
Lab File: VN081010.D
Acq: 12 Feb 2024 17:57

Tgt Ion:113 Resp: 341
Ion Ratio Lower Upper
113 100
111 221.4 82.2 123.4#
192 0.0 12.5 18.7#

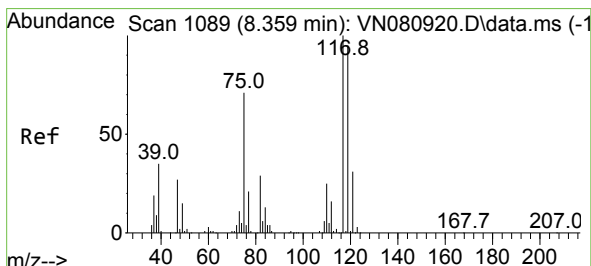
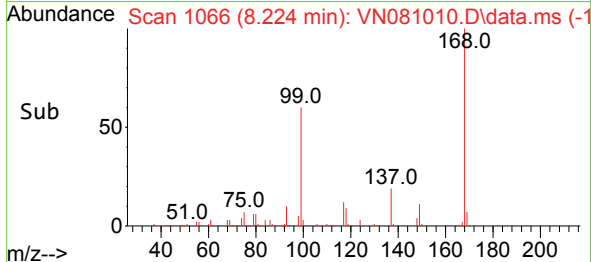
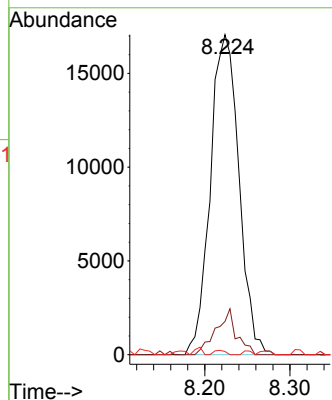
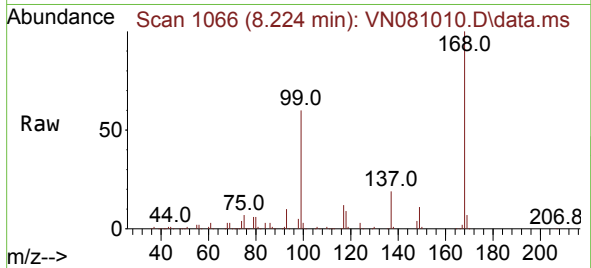




#36
1,1-Dichloropropene
Concen: 4.907 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.147 min
Lab File: VN081010.D
Acq: 12 Feb 2024 17:57

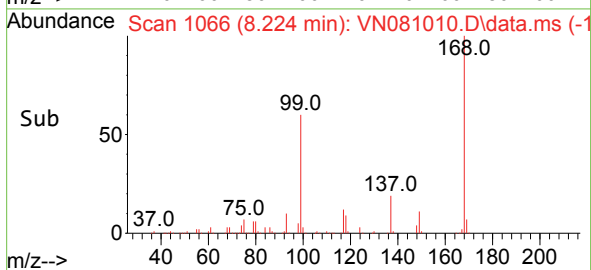
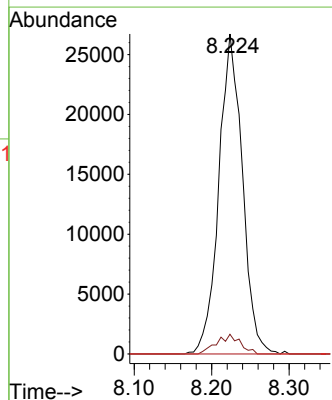
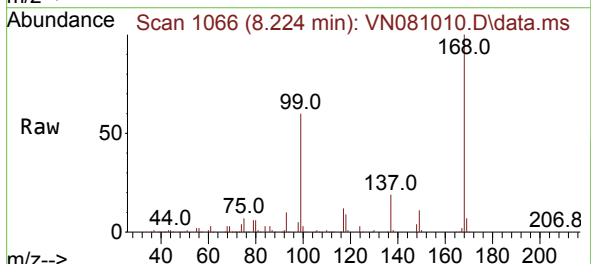
Instrument :
MSVOA_N
ClientSampleId :
RT3475

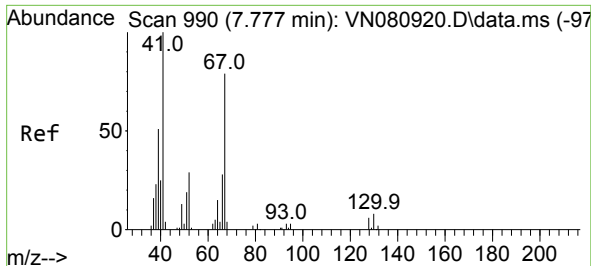
Tgt Ion: 75 Resp: 39837
Ion Ratio Lower Upper
75 100
110 10.2 16.0 48.0#
77 0.5 25.8 38.6#



#38
Carbon Tetrachloride
Concen: 6.773 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.135 min
Lab File: VN081010.D
Acq: 12 Feb 2024 17:57

Tgt Ion: 117 Resp: 56369
Ion Ratio Lower Upper
117 100
119 6.2 73.4 110.2#
121 0.0 24.4 36.6#

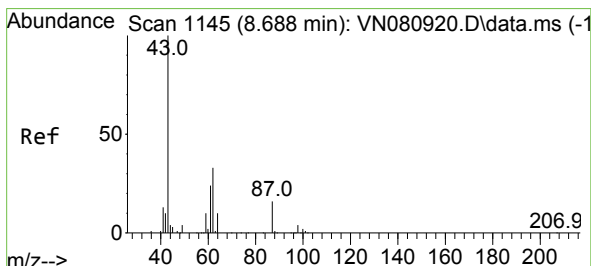
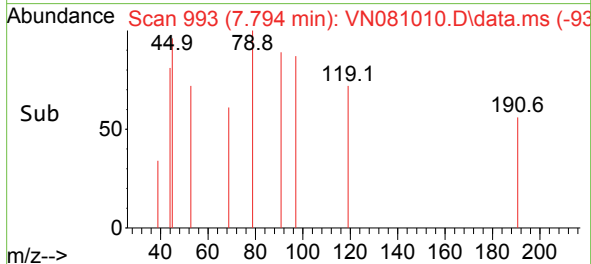
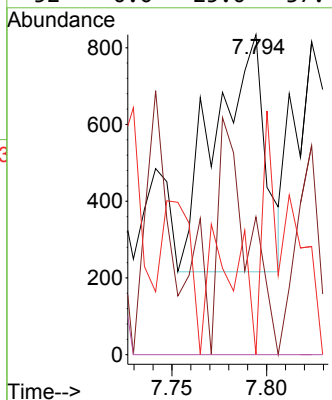
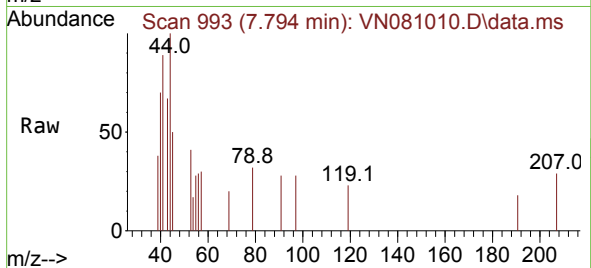




#41
Methacrylonitrile
Concen: 0.311 ug/l
RT: 7.794 min Scan# 91
Delta R.T. 0.018 min
Lab File: VN081010.D
Acq: 12 Feb 2024 17:57

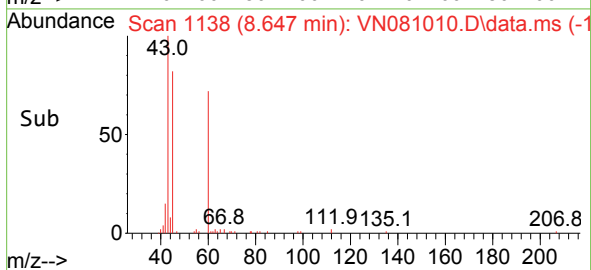
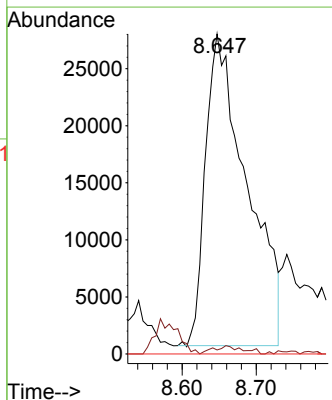
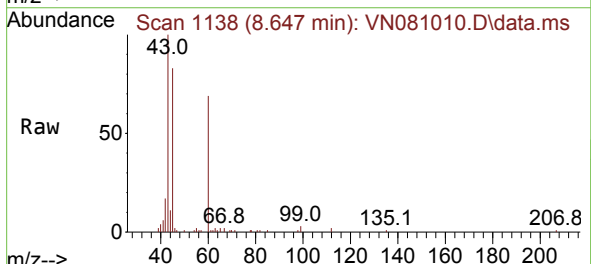
Instrument :
MSVOA_N
ClientSampleId :
RT3475

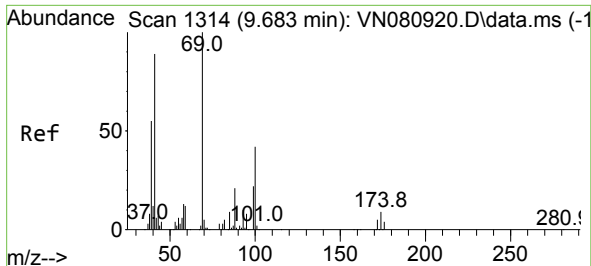
Tgt Ion:	41	Resp:	1137
Ion	Ratio	Lower	Upper
41	100		
39	0.0	48.4	72.6#
67	66.5	56.8	85.2
52	0.0	25.0	37.4#



#43
Isopropyl Acetate
Concen: 9.381 ug/l
RT: 8.647 min Scan# 1138
Delta R.T. -0.041 min
Lab File: VN081010.D
Acq: 12 Feb 2024 17:57

Tgt Ion:	43	Resp:	105965
Ion	Ratio	Lower	Upper
43	100		
61	1.8	19.9	29.9#
87	0.0	9.0	13.6#

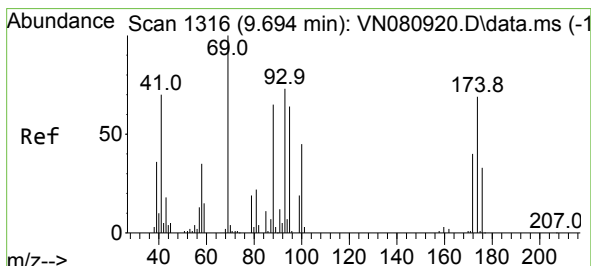
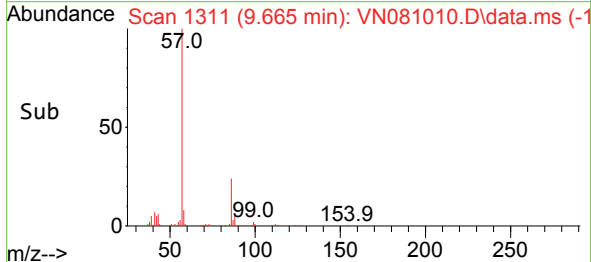
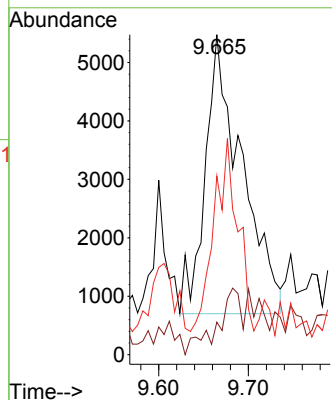
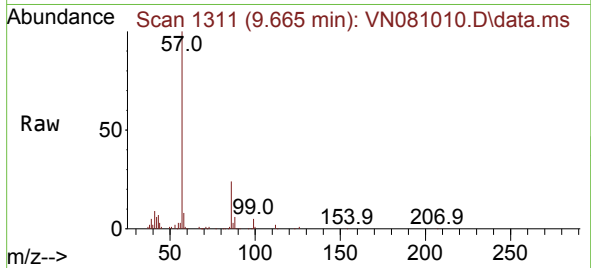




#48
Methyl methacrylate
Concen: 2.117 ug/l
RT: 9.665 min Scan# 1311
Delta R.T. -0.018 min
Lab File: VN081010.D
Acq: 12 Feb 2024 17:57

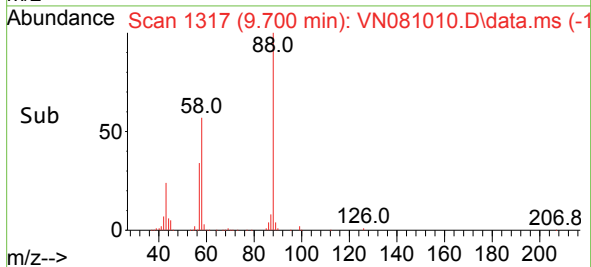
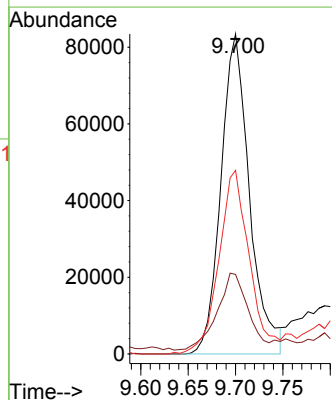
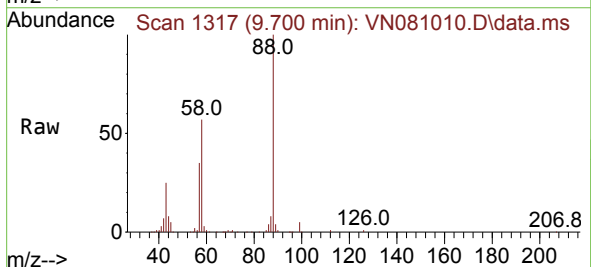
Instrument :
MSVOA_N
ClientSampleId :
RT3475

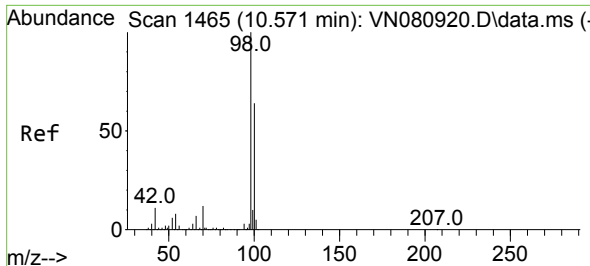
Tgt Ion: 41 Resp: 13474
Ion Ratio Lower Upper
41 100
69 15.6 62.2 93.2#
39 44.7 47.6 71.4#



#49
1,4-Dioxane
Concen: 1489.496 ug/l
RT: 9.700 min Scan# 1317
Delta R.T. 0.006 min
Lab File: VN081010.D
Acq: 12 Feb 2024 17:57

Tgt Ion: 88 Resp: 175030
Ion Ratio Lower Upper
88 100
43 25.9 30.1 45.1#
58 61.6 63.9 95.9#

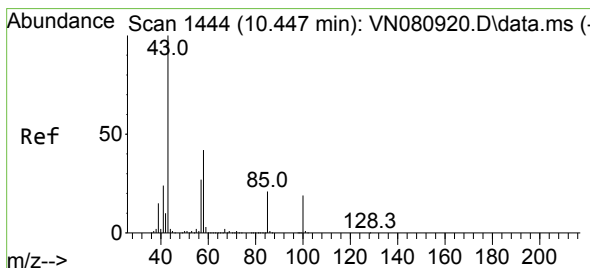
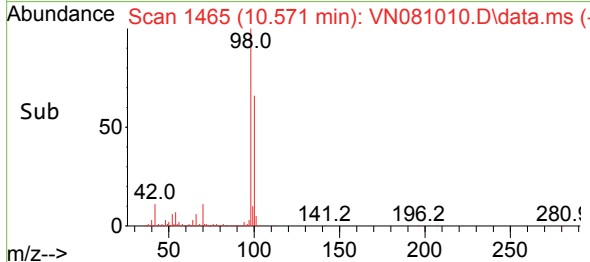
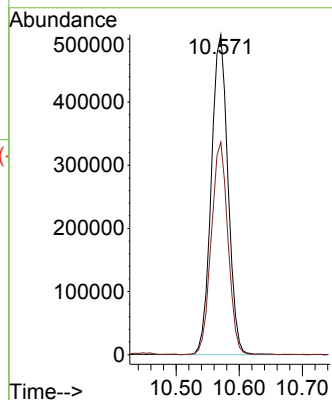
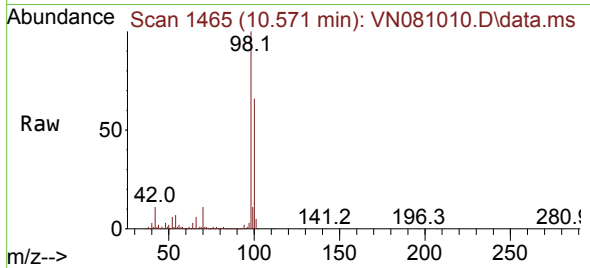




#50
Toluene-d8
Concen: 46.961 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VN081010.D
Acq: 12 Feb 2024 17:57

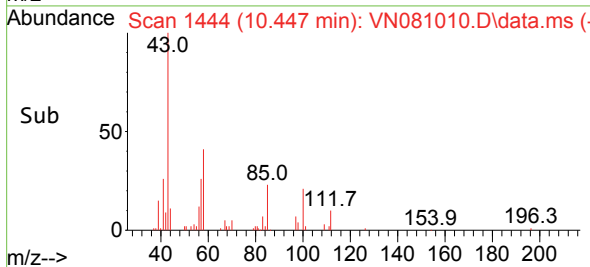
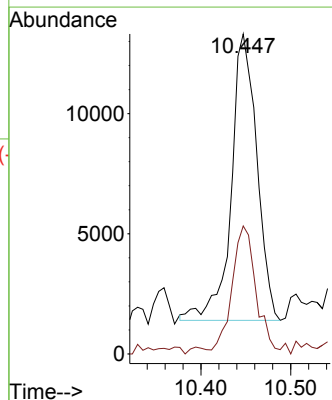
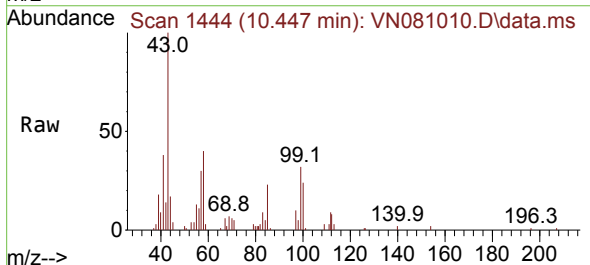
Instrument :
MSVOA_N
ClientSampleId :
RT3475

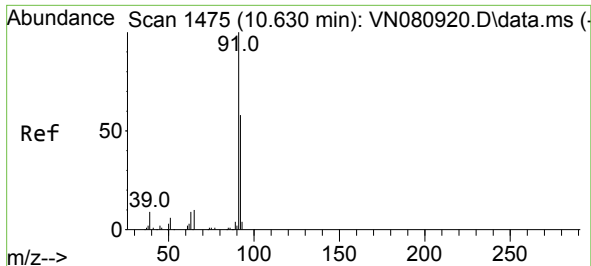
Tgt Ion: 98 Resp: 926953
Ion Ratio Lower Upper
98 100
100 66.1 51.4 77.0



#51
4-Methyl-2-Pentanone
Concen: 3.477 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. -0.000 min
Lab File: VN081010.D
Acq: 12 Feb 2024 17:57

Tgt Ion: 43 Resp: 23669
Ion Ratio Lower Upper
43 100
58 42.0 29.4 44.0

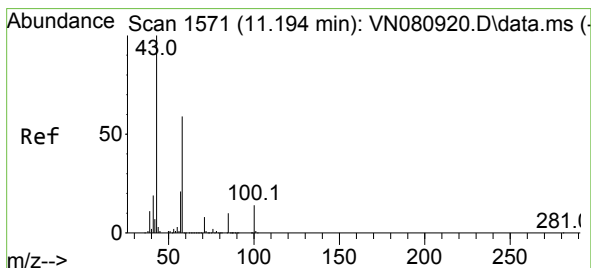
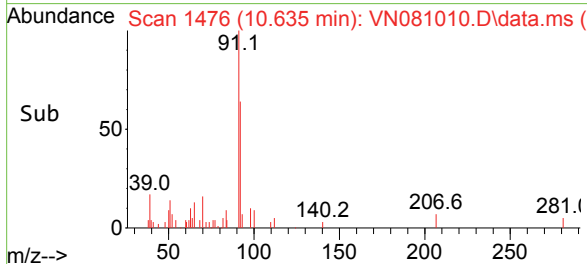
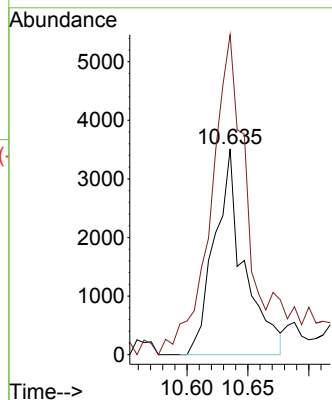
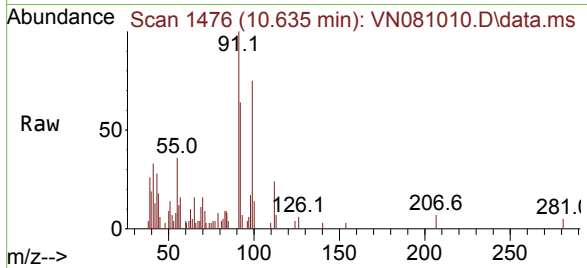




#52
Toluene
Concen: 0.357 ug/l
RT: 10.635 min Scan# 1475
Delta R.T. 0.006 min
Lab File: VN081010.D
Acq: 12 Feb 2024 17:57

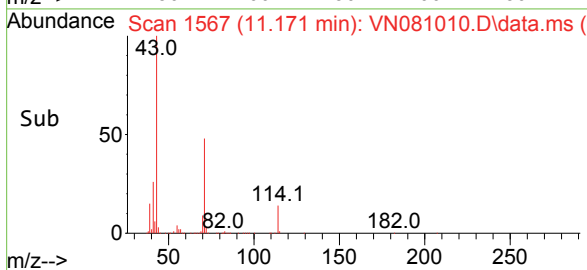
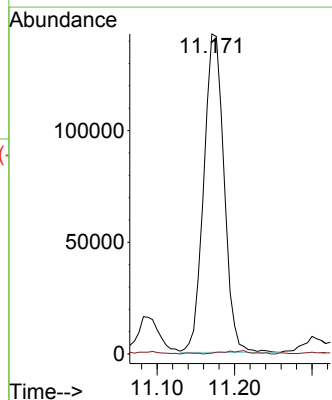
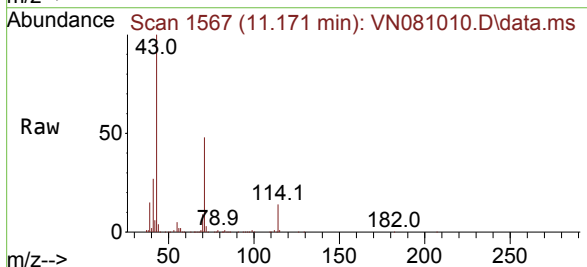
Instrument :
MSVOA_N
ClientSampleId :
RT3475

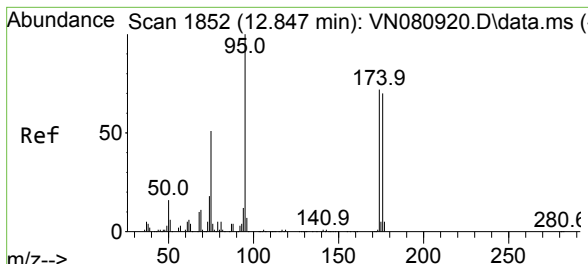
Tgt Ion: 92 Resp: 5901
Ion Ratio Lower Upper
92 100
91 180.2 139.4 209.0



#59
2-Hexanone
Concen: 50.205 ug/l
RT: 11.171 min Scan# 1567
Delta R.T. -0.024 min
Lab File: VN081010.D
Acq: 12 Feb 2024 17:57

Tgt Ion: 43 Resp: 259032
Ion Ratio Lower Upper
43 100
58 0.0 25.9 77.8#

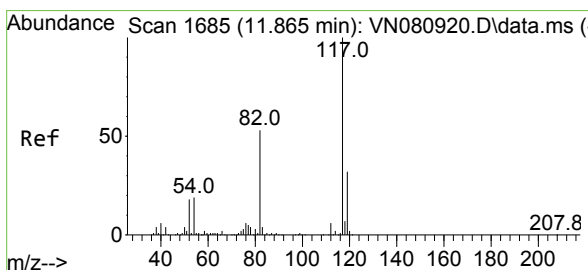
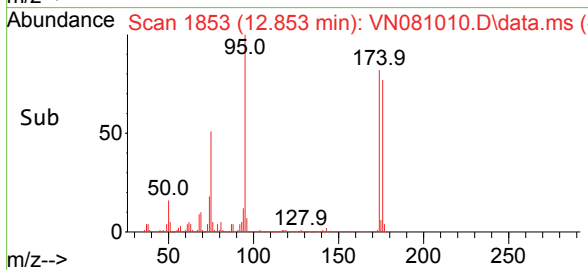
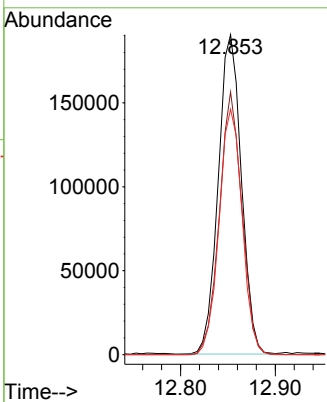
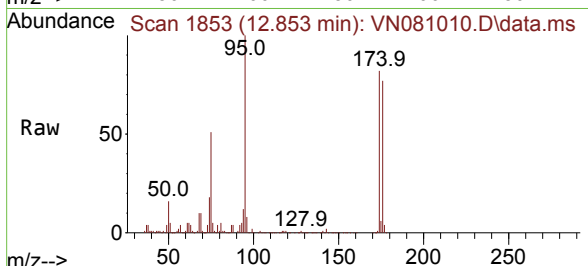




#62
4-Bromofluorobenzene
Concen: 45.039 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.006 min
Lab File: VN081010.D
Acq: 12 Feb 2024 17:57

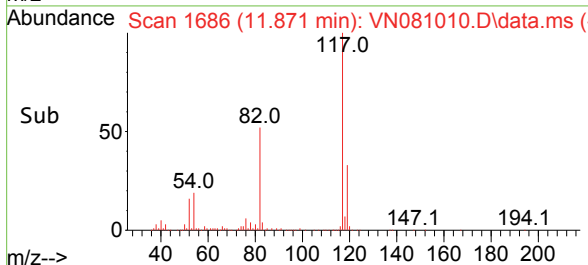
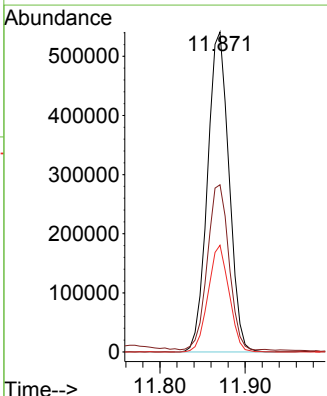
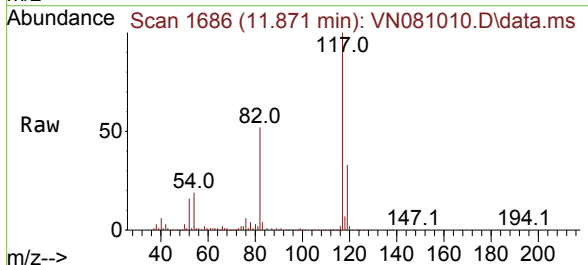
Instrument :
MSVOA_N
ClientSampleId :
RT3475

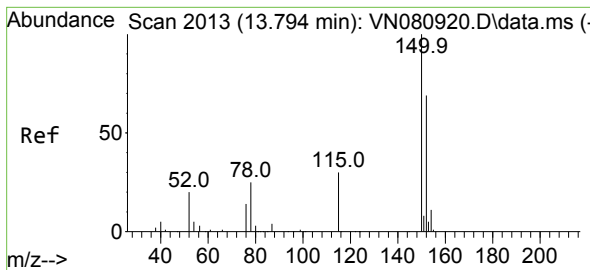
Tgt Ion:	95	Resp:	322953
Ion Ratio	Lower	Upper	
95	100		
174	80.2	0.0	120.4
176	76.4	0.0	121.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 1686
Delta R.T. 0.006 min
Lab File: VN081010.D
Acq: 12 Feb 2024 17:57

Tgt Ion:	117	Resp:	948560
Ion Ratio	Lower	Upper	
117	100		
82	51.7	52.7	79.1#
119	33.4	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: VN081010.D

Acq: 12 Feb 2024 17:57

Instrument :

MSVOA_N

ClientSampleId :

RT3475

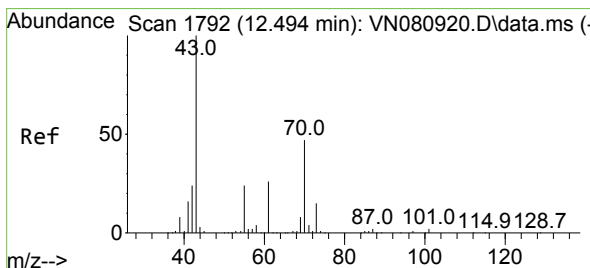
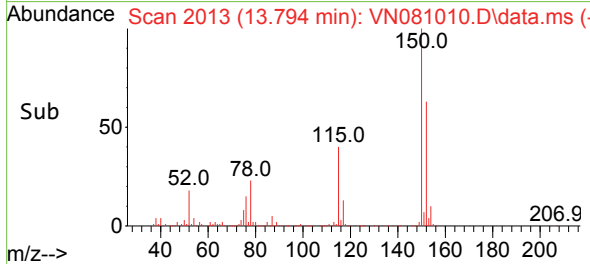
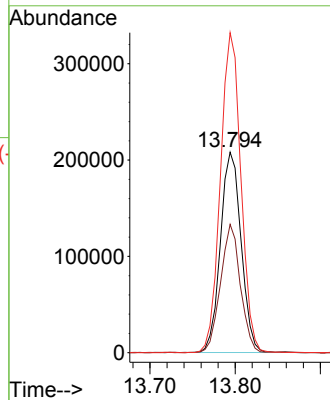
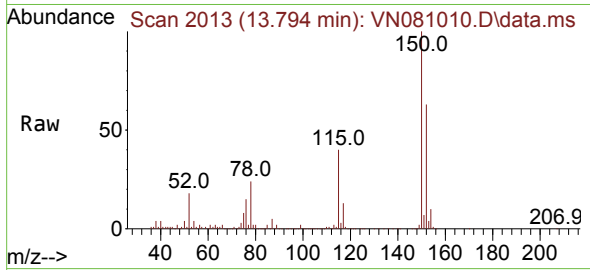
Tgt Ion:152 Resp: 350838

Ion Ratio Lower Upper

152 100

115 61.7 32.3 96.8

150 158.3 0.0 339.8



#74

N-ethyl acetate

Concen: 0.317 ug/l

RT: 12.465 min Scan# 1787

Delta R.T. -0.030 min

Lab File: VN081010.D

Acq: 12 Feb 2024 17:57

Tgt Ion: 43 Resp: 3119

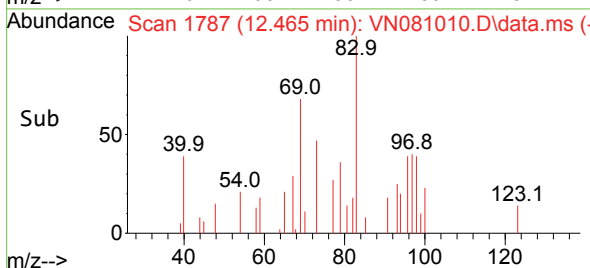
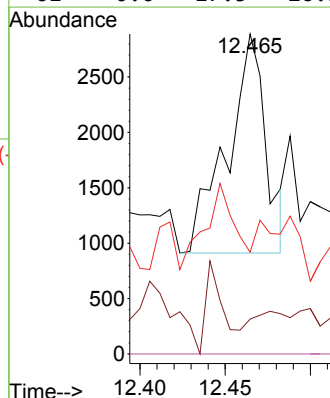
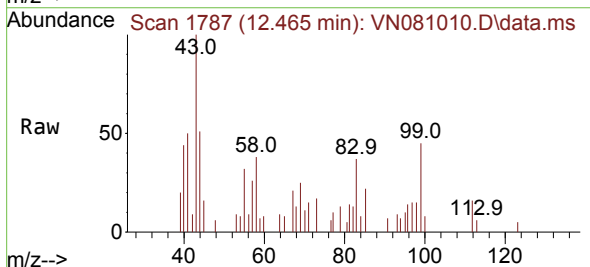
Ion Ratio Lower Upper

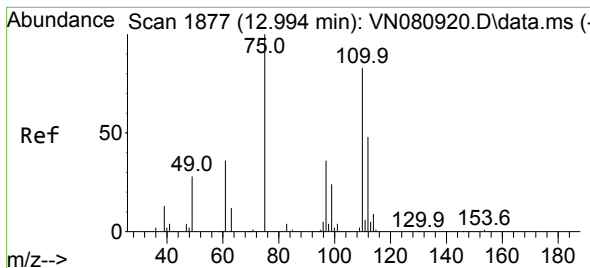
43 100

70 14.9 30.1 45.1#

55 0.0 17.0 25.4#

61 0.0 17.5 26.3#





#76

1,2,3-Trichloropropane

Concen: 22.177 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. -0.141 min

Lab File: VN081010.D

Acq: 12 Feb 2024 17:57

Instrument :

MSVOA_N

ClientSampleId :

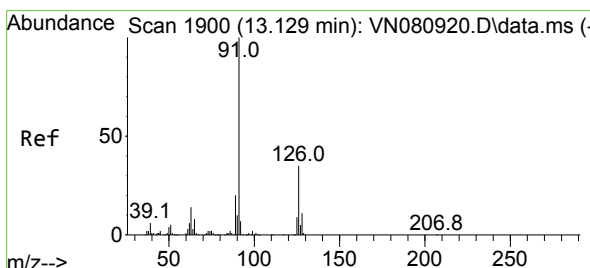
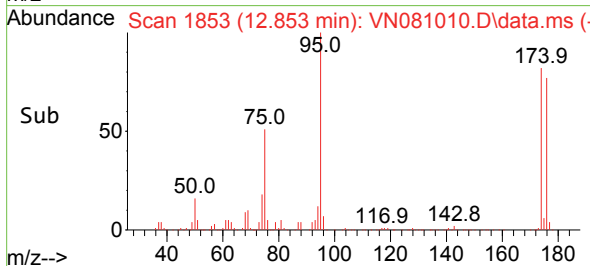
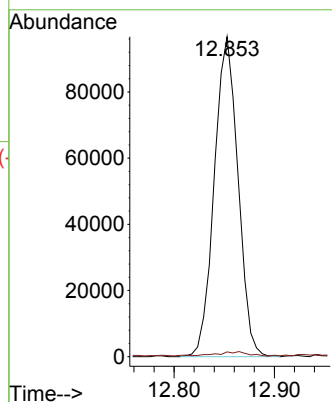
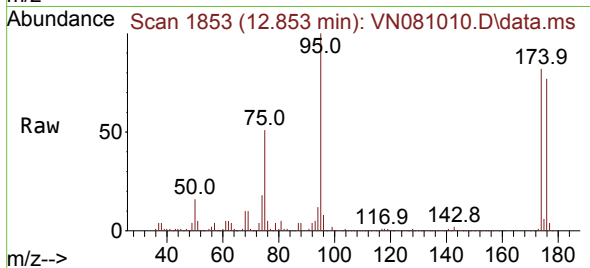
RT3475

Tgt Ion: 75 Resp: 158638

Ion Ratio Lower Upper

75 100

77 2.2 91.0 272.8#



#79

2-Chlorotoluene

Concen: 0.227 ug/l

RT: 13.047 min Scan# 1886

Delta R.T. -0.082 min

Lab File: VN081010.D

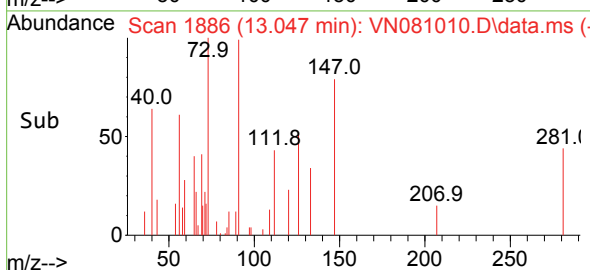
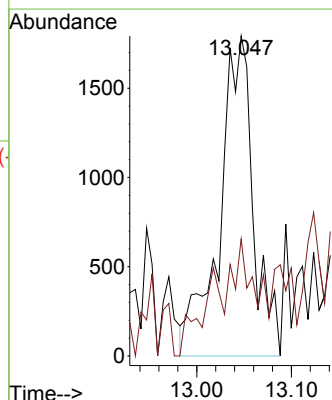
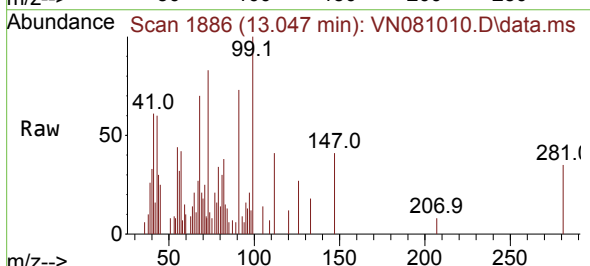
Acq: 12 Feb 2024 17:57

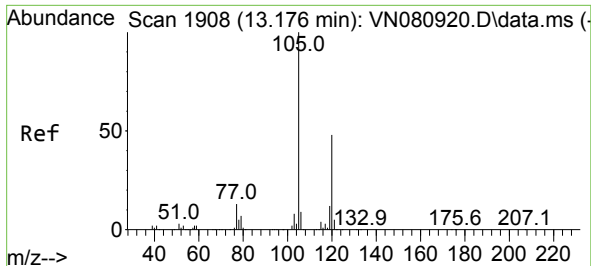
Tgt Ion: 91 Resp: 4426

Ion Ratio Lower Upper

91 100

126 21.0 14.8 44.4

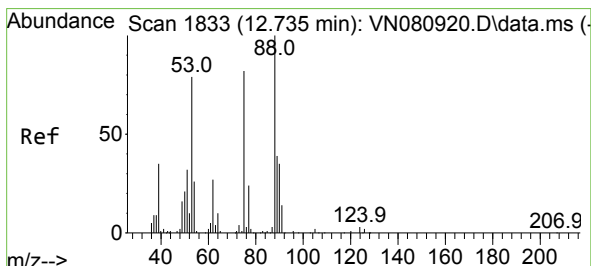
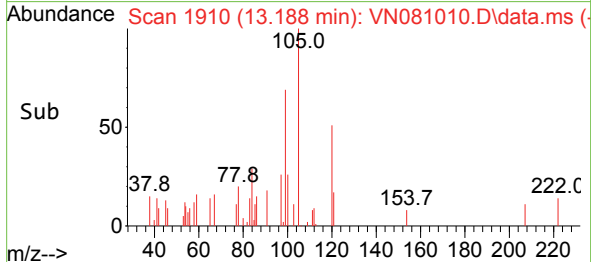
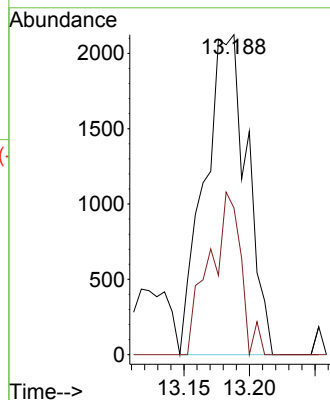
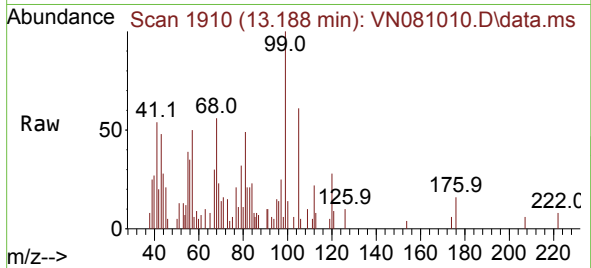




#80
 1,3,5-Trimethylbenzene
 Concen: 0.217 ug/l
 RT: 13.188 min Scan# 1908
 Delta R.T. 0.012 min
 Lab File: VN081010.D
 Acq: 12 Feb 2024 17:57

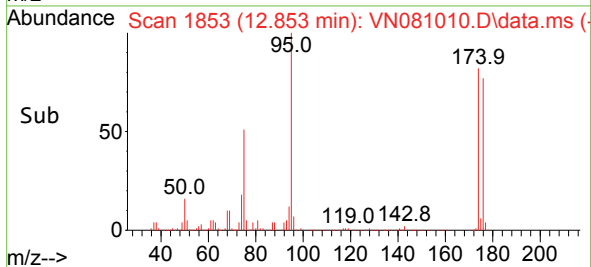
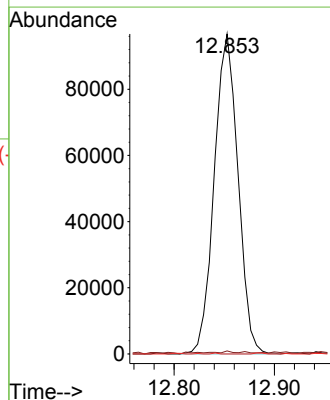
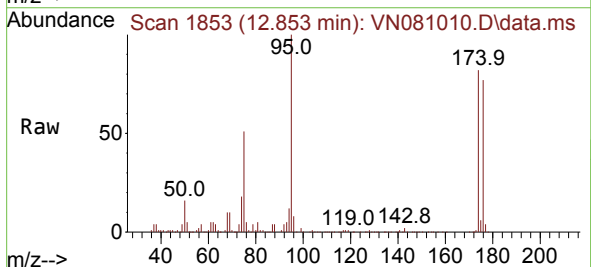
Instrument :
 MSVOA_N
 ClientSampleId :
 RT3475

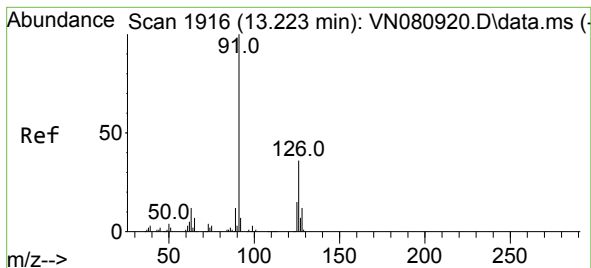
Tgt Ion:105 Resp: 4803
 Ion Ratio Lower Upper
 105 100
 120 37.4 23.0 69.0



#81
 trans-1,4-Dichloro-2-butene
 Concen: 60.251 ug/l
 RT: 12.853 min Scan# 1853
 Delta R.T. 0.118 min
 Lab File: VN081010.D
 Acq: 12 Feb 2024 17:57

Tgt Ion: 75 Resp: 158638
 Ion Ratio Lower Upper
 75 100
 53 0.2 71.4 107.2#
 89 0.1 33.4 50.0#

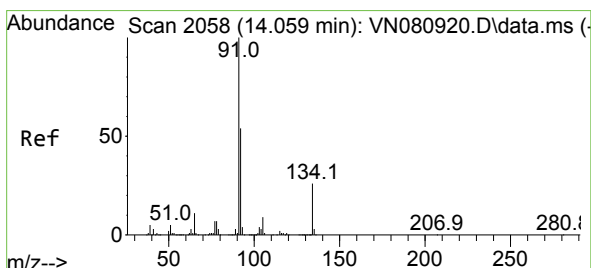
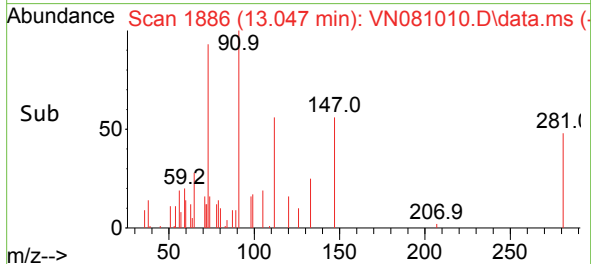
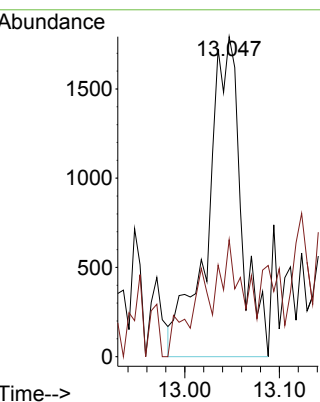
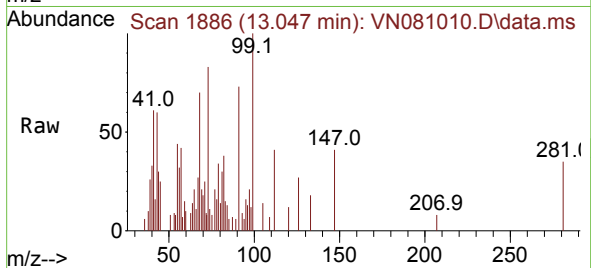




#82
4-Chlorotoluene
Concen: 0.228 ug/l
RT: 13.047 min Scan# 1886
Delta R.T. -0.177 min
Lab File: VN081010.D
Acq: 12 Feb 2024 17:57

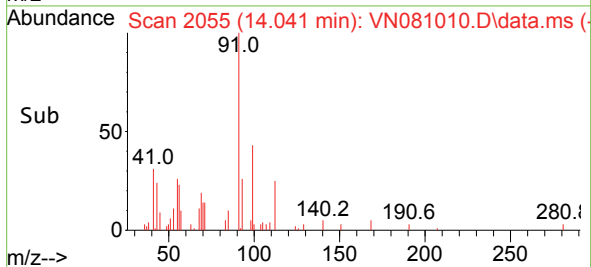
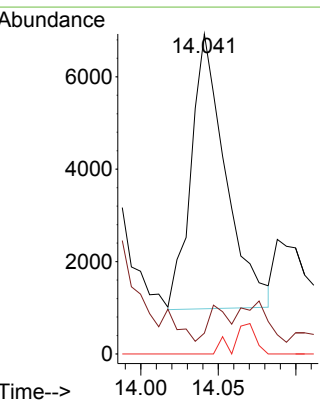
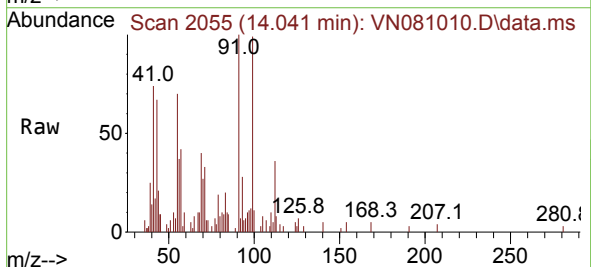
Instrument :
MSVOA_N
ClientSampleId :
RT3475

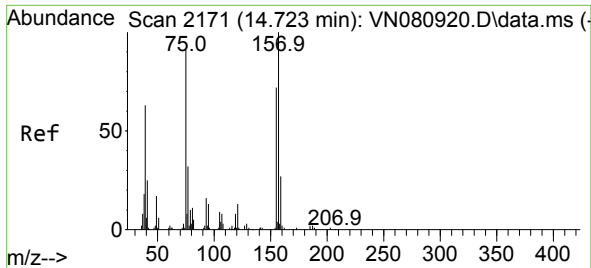
Tgt Ion: 91 Resp: 4426
Ion Ratio Lower Upper
91 100
126 19.0 15.3 45.9



#89
n-Butylbenzene
Concen: 0.486 ug/l
RT: 14.041 min Scan# 2055
Delta R.T. -0.018 min
Lab File: VN081010.D
Acq: 12 Feb 2024 17:57

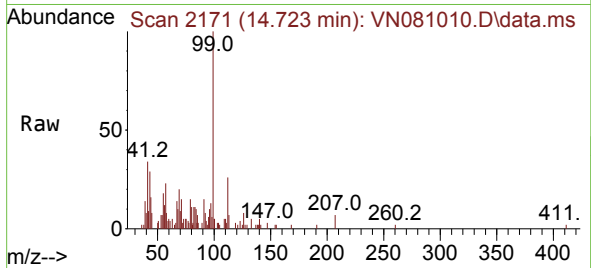
Tgt Ion: 91 Resp: 9225
Ion Ratio Lower Upper
91 100
92 9.4 26.7 80.1#
134 0.0 10.8 32.4#





#92
 1,2-Dibromo-3-Chloropropane
 Concen: 0.375 ug/l
 RT: 14.723 min Scan# 21
 Delta R.T. -0.000 min
 Lab File: VN081010.D
 Acq: 12 Feb 2024 17:57

Instrument :
 MSVOA_N
 ClientSampleId :
 RT3475



Tgt Ion:	75	Resp:	595
Ion	Ratio	Lower	Upper
75	100		
155	40.7	31.8	95.4
157	0.0	41.1	123.4#

