

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120823\
 Data File : VN080421.D
 Acq On : 08 Dec 2023 21:07
 Operator : JC\MD
 Sample : 05671-08
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Dec 08 22:47:31 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N111623W.M
 Quant Title : SW846 8260
 QLast Update : Fri Nov 17 01:19:32 2023
 Response via : Initial Calibration

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

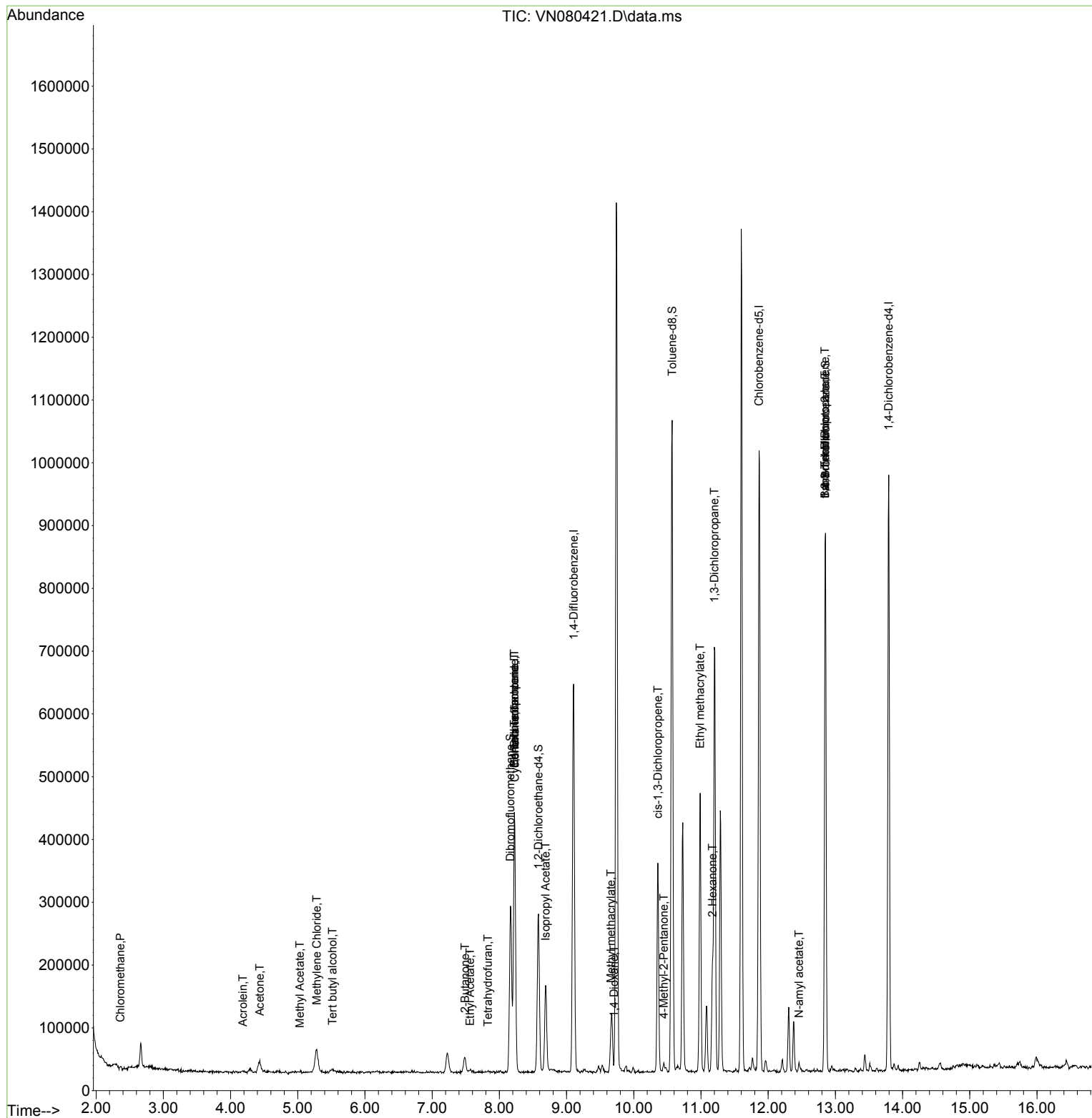
Internal Standards						
1) Pentafluorobenzene	8.224	168	289977	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	542794	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	585864	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	257787	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	219093	45.759	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	91.520%		
35) Dibromofluoromethane	8.165	113	188460	47.055	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	94.100%		
50) Toluene-d8	10.571	98	746212	51.685	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	103.380%		
62) 4-Bromofluorobenzene	12.853	95	313525	57.492	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	114.980%		
Target Compounds						
					Qvalue	
3) Chloromethane	2.359	50	4182	1.288	ug/l	89
6) Chloroethane	3.183	64	504	Below Cal		96
11) Tert butyl alcohol	5.518	59	9141	17.361	ug/l #	94
13) Acrolein	4.183	56	1439	3.088	ug/l #	30
16) Acetone	4.436	43	34476	21.438	ug/l	98
18) Methyl Acetate	5.030	43	1125	0.218	ug/l #	55
20) Methylene Chloride	5.283	84	31646	9.397	ug/l	95
25) 2-Butanone	7.488	43	38274	20.031	ug/l #	81
29) Tetrahydrofuran	7.830	42	937	0.913	ug/l #	57
31) Cyclohexane	8.230	56	5984	1.149	ug/l #	15
36) 1,1-Dichloropropene	8.224	75	23629	4.075	ug/l #	48
37) Ethyl Acetate	7.565	43	4879	1.213	ug/l #	90
38) Carbon Tetrachloride	8.224	117	32362	4.398	ug/l #	15
43) Isopropyl Acetate	8.688	43	156986	20.057	ug/l #	88
48) Methyl methacrylate	9.659	41	8353	2.071	ug/l #	30
49) 1,4-Dioxane	9.706	88	341	5.082	ug/l #	30
51) 4-Methyl-2-Pentanone	10.447	43	13595	3.355	ug/l #	67
54) cis-1,3-Dichloropropene	10.359	75	66501	9.934	ug/l #	59
56) Ethyl methacrylate	10.988	69	1299	0.323	ug/l #	1
57) 1,3-Dichloropropane	11.200	76	7605	1.107	ug/l #	42
59) 2-Hexanone	11.171	43	131973	40.530	ug/l #	19
71) Bromoform	12.847	173	996	0.261	ug/l #	1
74) N-amyl acetate	12.459	43	8719	1.396	ug/l #	42
76) 1,2,3-Trichloropropane	12.847	75	164617	26.063	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	164617	88.055	ug/l #	15

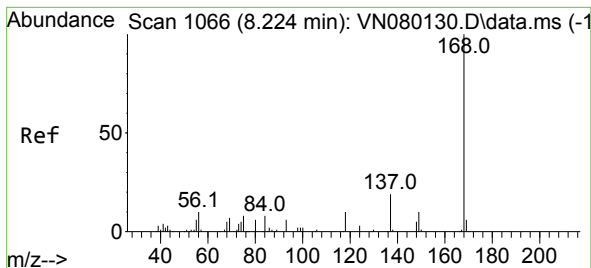
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.000 min

Lab File: VN080421.D

Acq: 08 Dec 2023 21:07

Instrument :

MSVOA_N

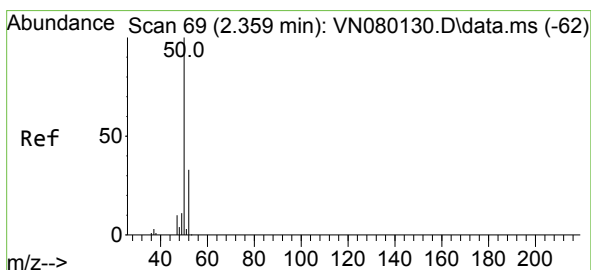
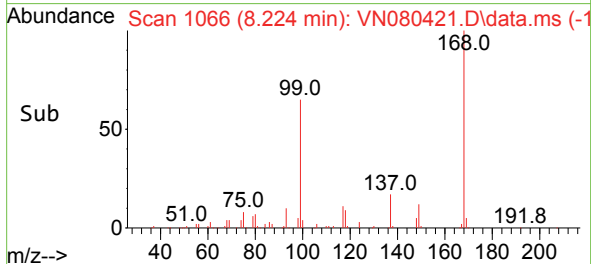
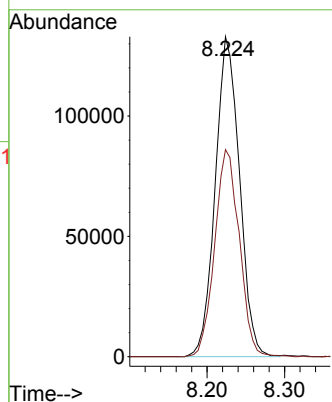
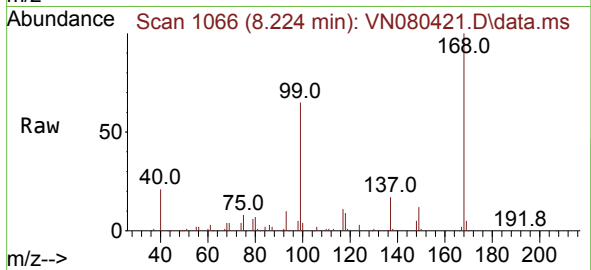
ClientSampleId :

Tgt Ion:168 Resp: 289977

Ion Ratio Lower Upper

168 100

99 64.7 53.0 79.6



#3

Chloromethane

Concen: 1.288 ug/l

RT: 2.359 min Scan# 69

Delta R.T. -0.000 min

Lab File: VN080421.D

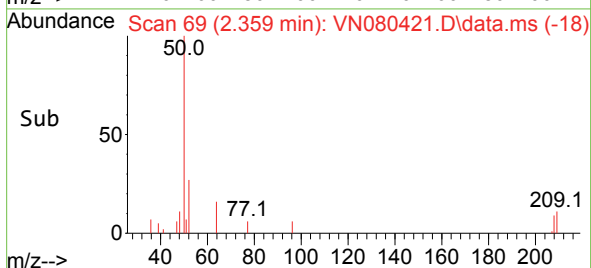
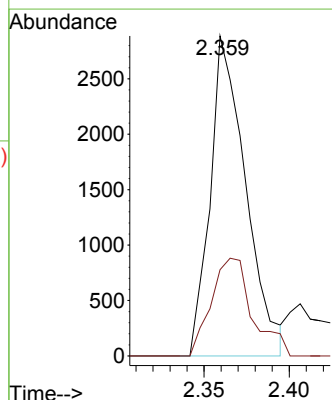
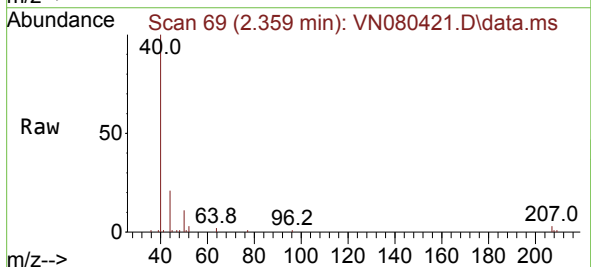
Acq: 08 Dec 2023 21:07

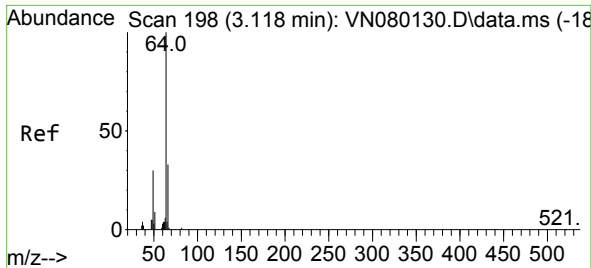
Tgt Ion: 50 Resp: 4182

Ion Ratio Lower Upper

50 100

52 26.9 26.5 39.7

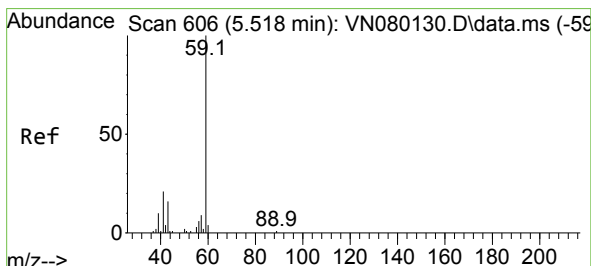
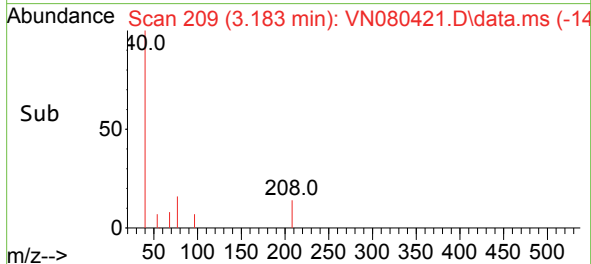
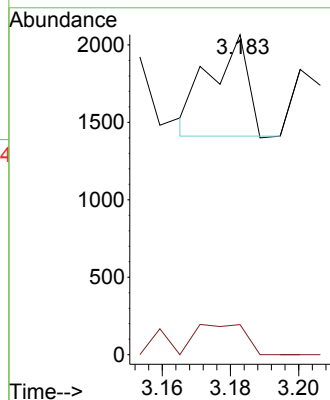
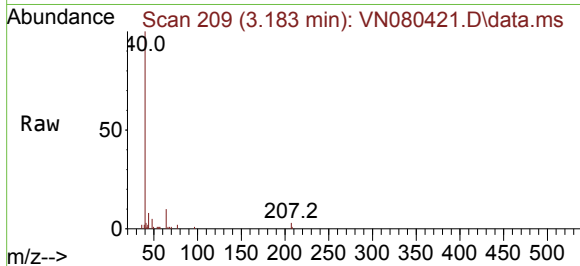




#6
Chloroethane
Concen: Below Cal
RT: 3.183 min Scan# 209
Delta R.T. 0.065 min
Lab File: VN080421.D
Acq: 08 Dec 2023 21:07

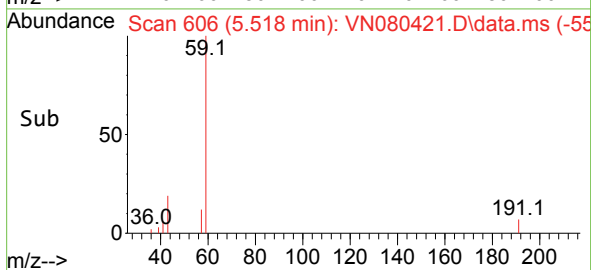
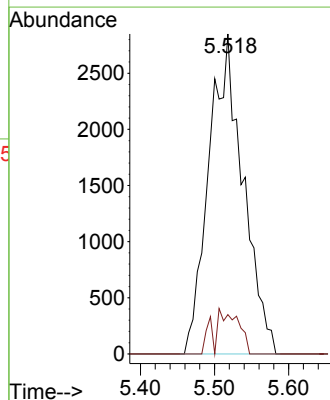
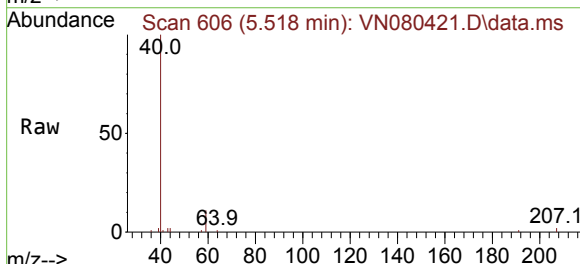
Instrument :
MSVOA_N
ClientSampleId :

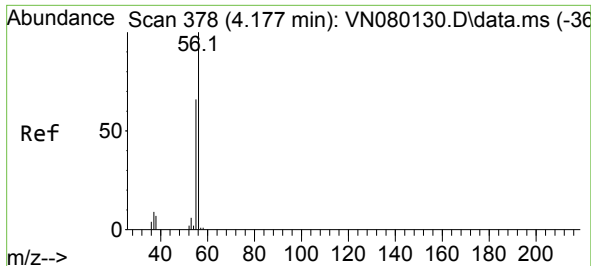
Tgt Ion: 64 Resp: 504
Ion Ratio Lower Upper
64 100
66 29.6 25.4 38.2



#11
Tert butyl alcohol
Concen: 17.361 ug/l
RT: 5.518 min Scan# 606
Delta R.T. -0.000 min
Lab File: VN080421.D
Acq: 08 Dec 2023 21:07

Tgt Ion: 59 Resp: 9141
Ion Ratio Lower Upper
59 100
57 8.1 8.2 12.4#





#13

Acrolein

Concen: 3.088 ug/l

RT: 4.183 min Scan# 31

Delta R.T. 0.006 min

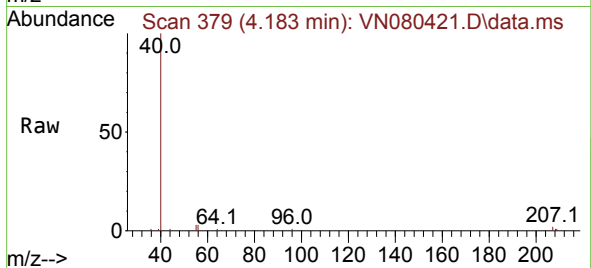
Lab File: VN080421.D

Acq: 08 Dec 2023 21:07

Instrument :

MSVOA_N

ClientSampleId :

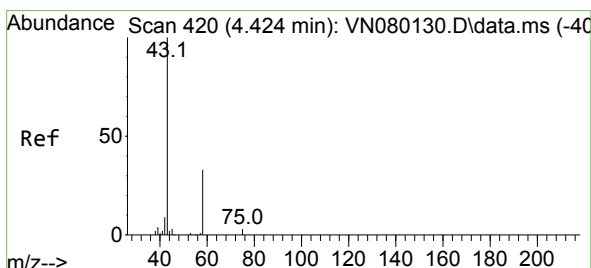
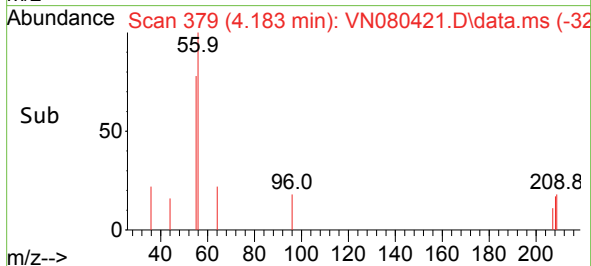
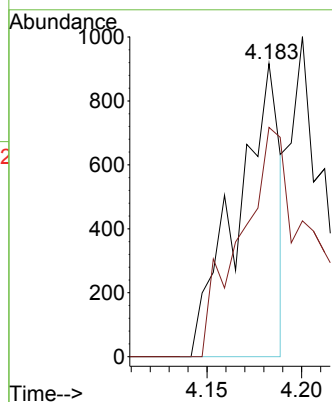


Tgt Ion: 56 Resp: 1439

Ion Ratio Lower Upper

56 100

55 124.9 54.5 81.7#



#16

Acetone

Concen: 21.438 ug/l

RT: 4.436 min Scan# 422

Delta R.T. 0.012 min

Lab File: VN080421.D

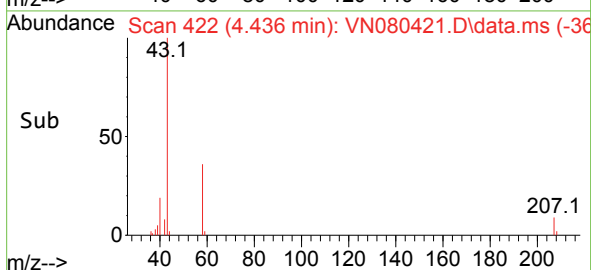
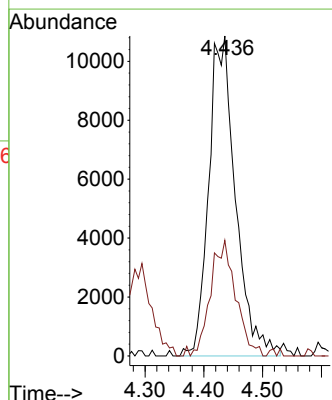
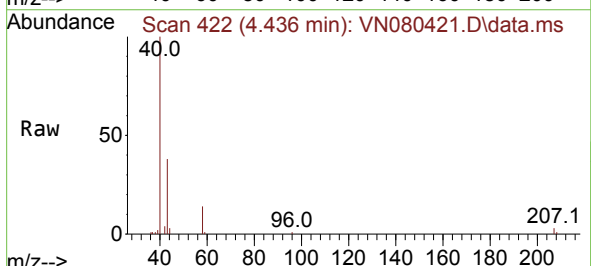
Acq: 08 Dec 2023 21:07

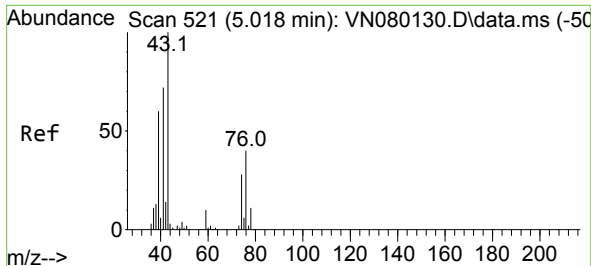
Tgt Ion: 43 Resp: 34476

Ion Ratio Lower Upper

43 100

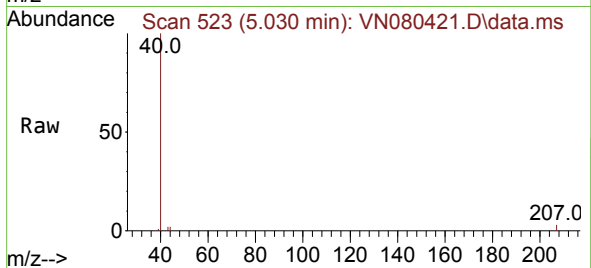
58 36.1 28.0 42.0



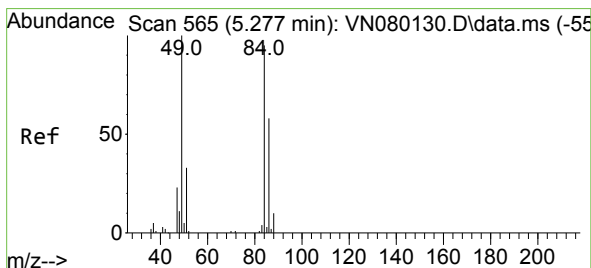
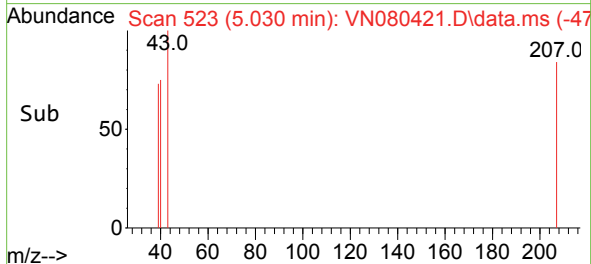
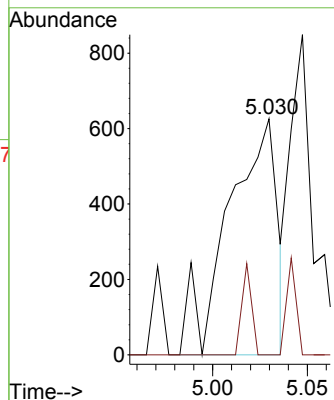


#18
Methyl Acetate
Concen: 0.218 ug/l
RT: 5.030 min Scan# 51
Delta R.T. 0.012 min
Lab File: VN080421.D
Acq: 08 Dec 2023 21:07

Instrument :
MSVOA_N
ClientSampleId :

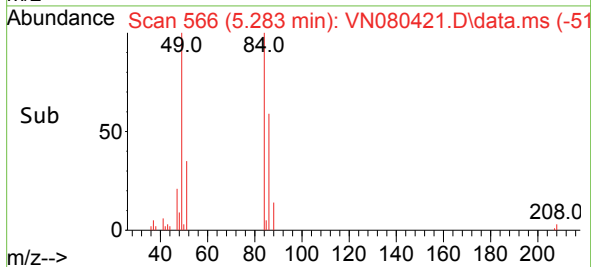
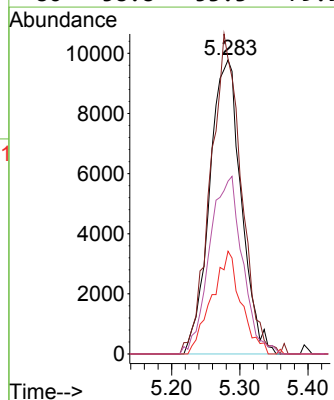
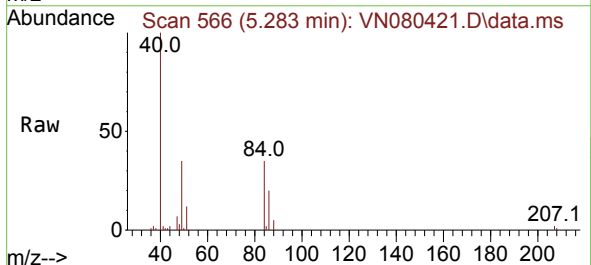


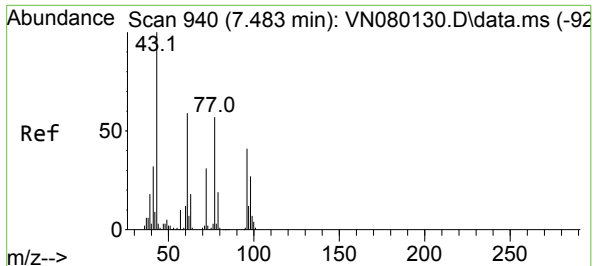
Tgt Ion: 43 Resp: 1125
Ion Ratio Lower Upper
43 100
74 7.6 26.2 39.4#



#20
Methylene Chloride
Concen: 9.397 ug/l
RT: 5.283 min Scan# 566
Delta R.T. 0.006 min
Lab File: VN080421.D
Acq: 08 Dec 2023 21:07

Tgt Ion: 84 Resp: 31646
Ion Ratio Lower Upper
84 100
49 100.4 79.7 119.5
51 34.9 25.2 37.8
86 58.8 53.3 79.9





#25

2-Butanone

Concen: 20.031 ug/l

RT: 7.488 min Scan# 940

Delta R.T. 0.006 min

Lab File: VN080421.D

Acq: 08 Dec 2023 21:07

Instrument :

MSVOA_N

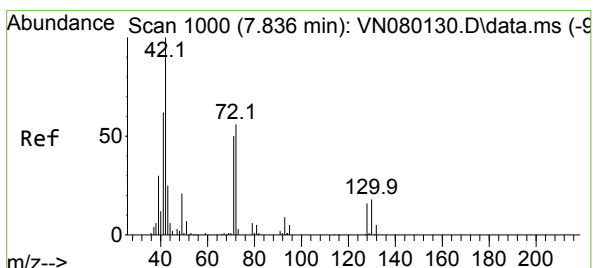
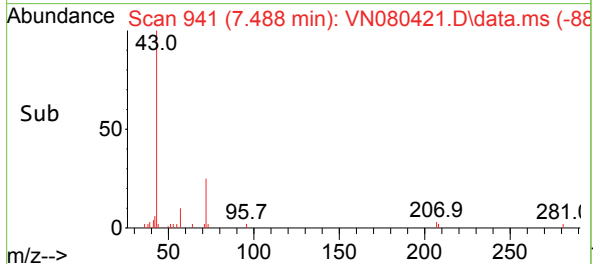
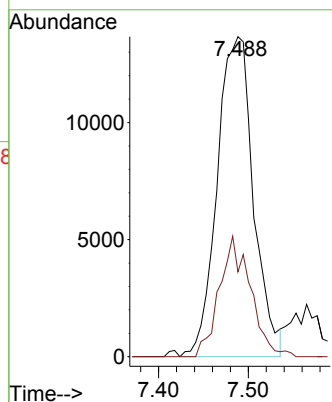
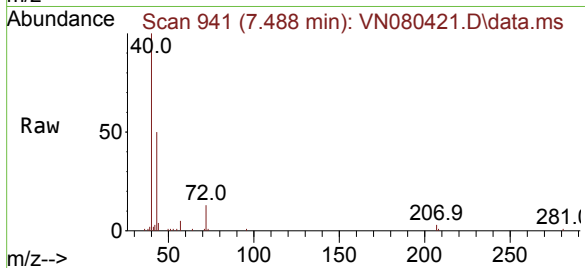
ClientSampleId :

Tgt Ion: 43 Resp: 38274

Ion Ratio Lower Upper

43 100

72 26.5 30.2 45.2#



#29

Tetrahydrofuran

Concen: 0.913 ug/l

RT: 7.830 min Scan# 999

Delta R.T. -0.006 min

Lab File: VN080421.D

Acq: 08 Dec 2023 21:07

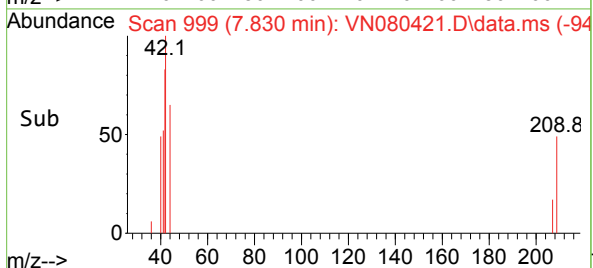
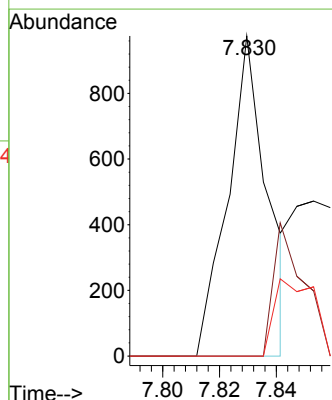
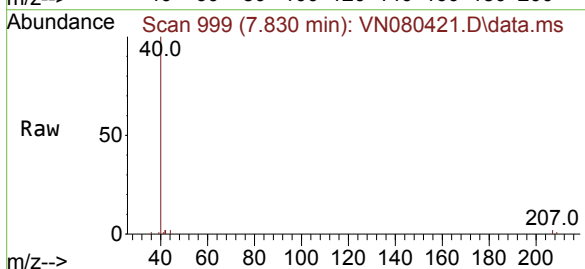
Tgt Ion: 42 Resp: 937

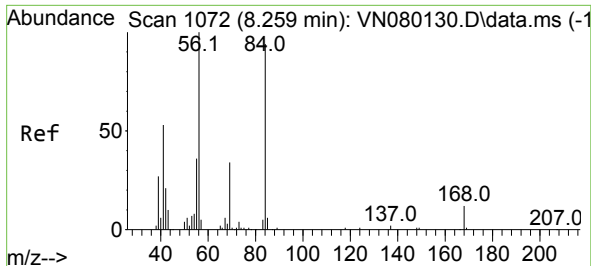
Ion Ratio Lower Upper

42 100

72 31.9 49.8 74.6#

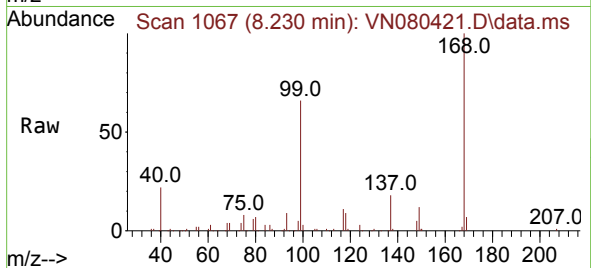
71 24.2 47.4 71.2#



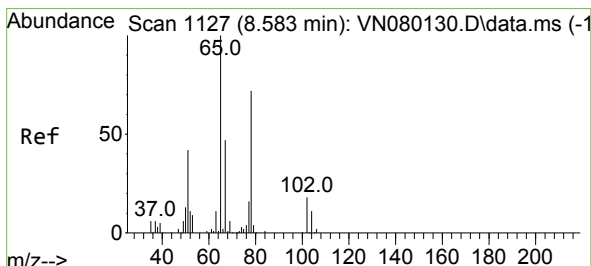
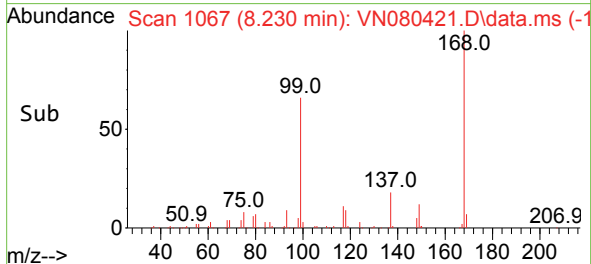
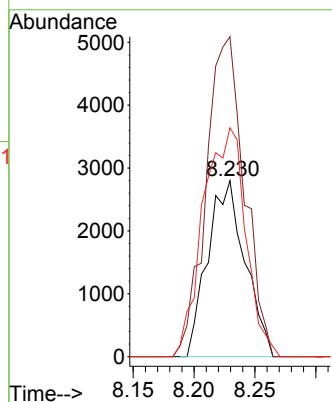


#31
Cyclohexane
Concen: 1.149 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.030 min
Lab File: VN080421.D
Acq: 08 Dec 2023 21:07

Instrument :
MSVOA_N
ClientSampleId :

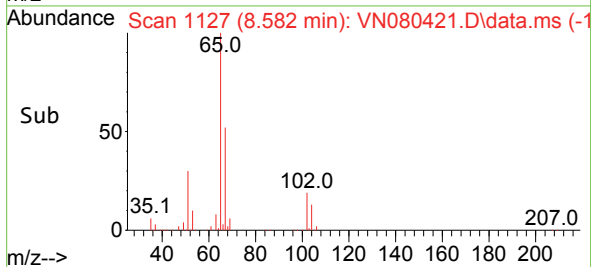
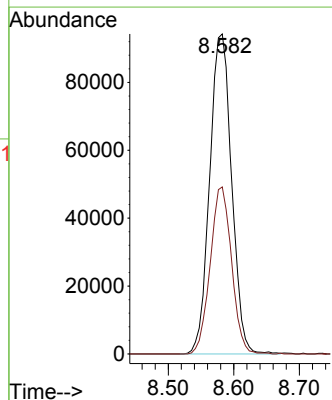
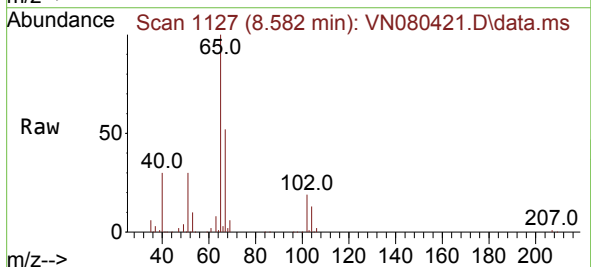


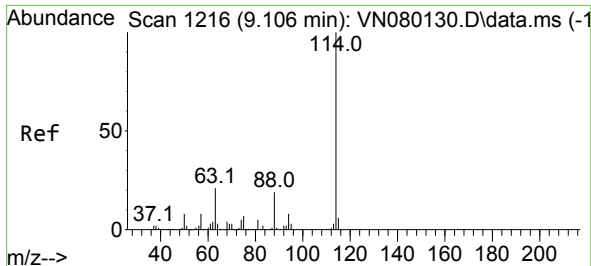
Tgt Ion: 56 Resp: 5984
Ion Ratio Lower Upper
56 100
69 181.8 26.8 40.2#
84 130.0 81.8 122.6#



#33
1,2-Dichloroethane-d4
Concen: 45.759 ug/l
RT: 8.582 min Scan# 1127
Delta R.T. -0.000 min
Lab File: VN080421.D
Acq: 08 Dec 2023 21:07

Tgt Ion: 65 Resp: 219093
Ion Ratio Lower Upper
65 100
67 50.7 0.0 106.6

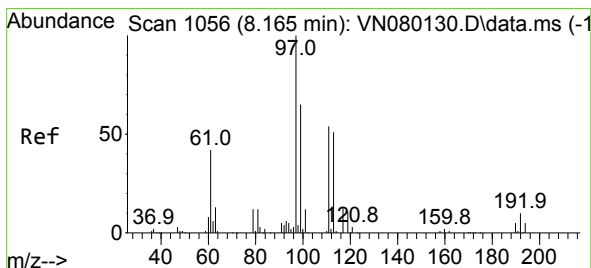
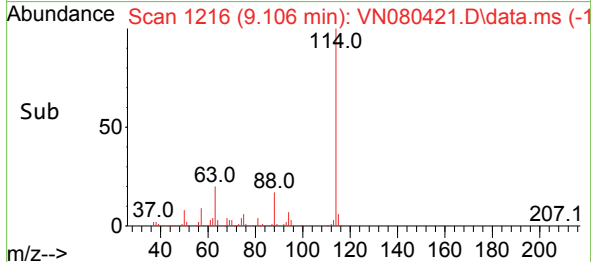
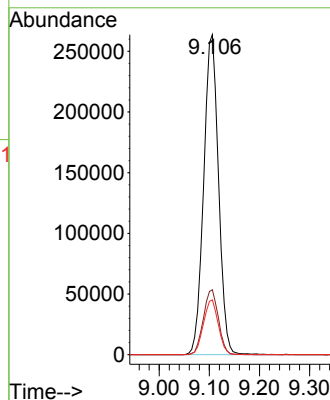
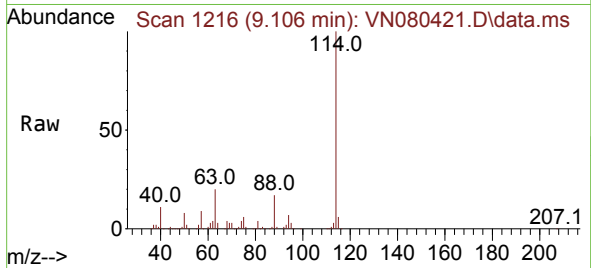




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN080421.D
Acq: 08 Dec 2023 21:07

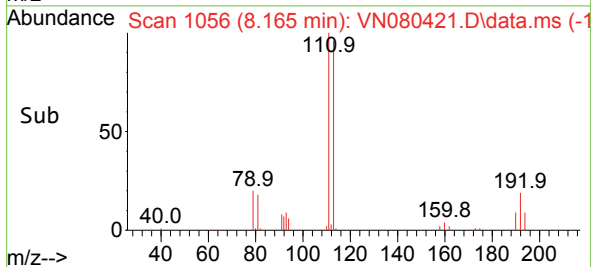
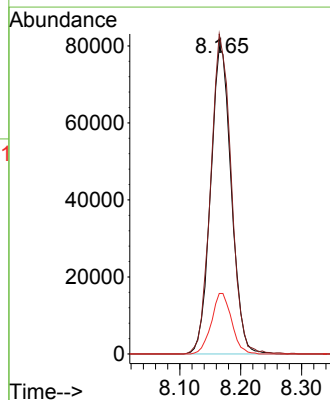
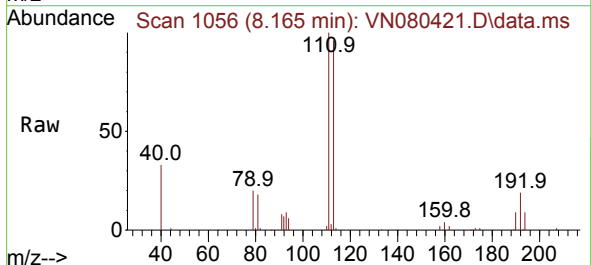
Instrument :
MSVOA_N
ClientSampleId :

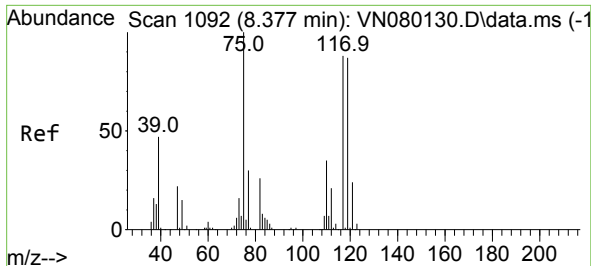
Tgt Ion:114 Resp: 542794
Ion Ratio Lower Upper
114 100
63 20.3 0.0 36.4
88 17.1 0.0 30.6



#35
Dibromofluoromethane
Concen: 47.055 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. -0.000 min
Lab File: VN080421.D
Acq: 08 Dec 2023 21:07

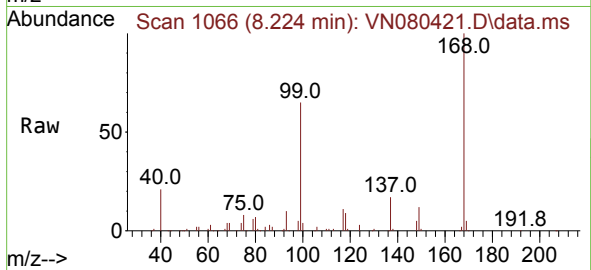
Tgt Ion:113 Resp: 188460
Ion Ratio Lower Upper
113 100
111 103.3 82.6 123.8
192 19.2 12.7 19.1#



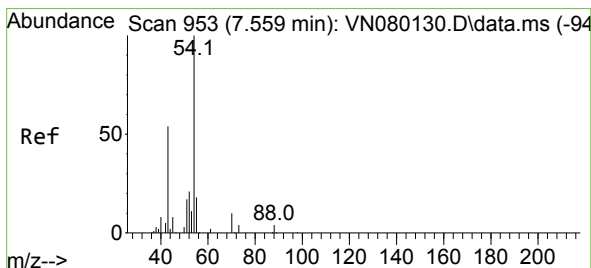
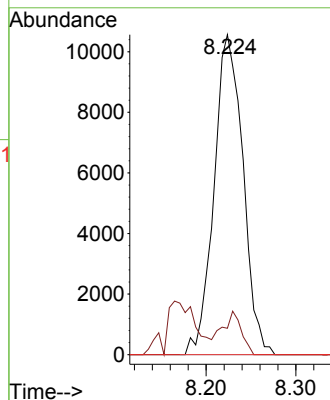
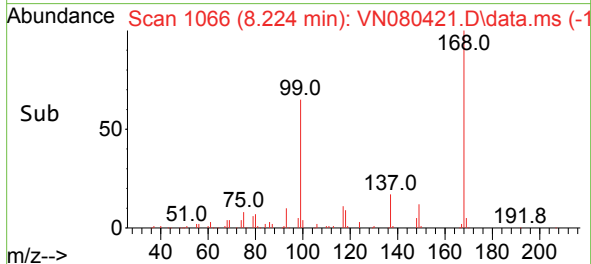


#36
1,1-Dichloropropene
Concen: 4.075 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.153 min
Lab File: VN080421.D
Acq: 08 Dec 2023 21:07

Instrument :
MSVOA_N
ClientSampleId :

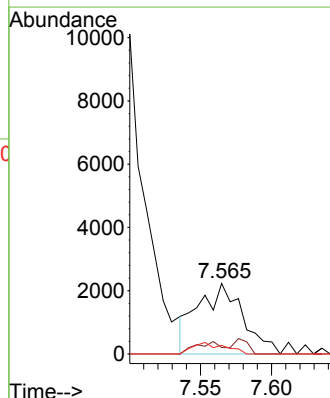
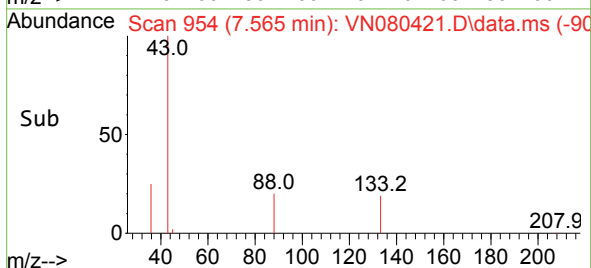
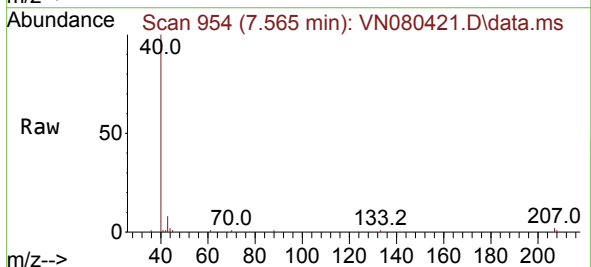


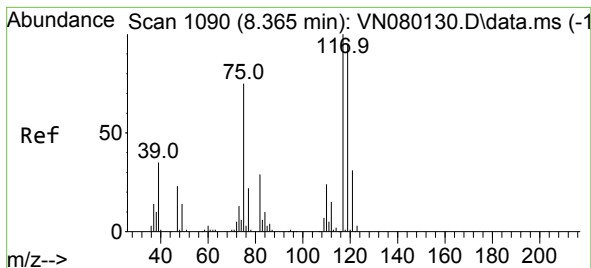
Tgt Ion: 75 Resp: 23629
Ion Ratio Lower Upper
75 100
110 9.1 19.1 57.3#
77 0.0 25.0 37.4#



#37
Ethyl Acetate
Concen: 1.213 ug/l
RT: 7.565 min Scan# 954
Delta R.T. 0.006 min
Lab File: VN080421.D
Acq: 08 Dec 2023 21:07

Tgt Ion: 43 Resp: 4879
Ion Ratio Lower Upper
43 100
61 11.0 13.2 19.8#
70 11.6 11.3 16.9





#38

Carbon Tetrachloride

Concen: 4.398 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.141 min

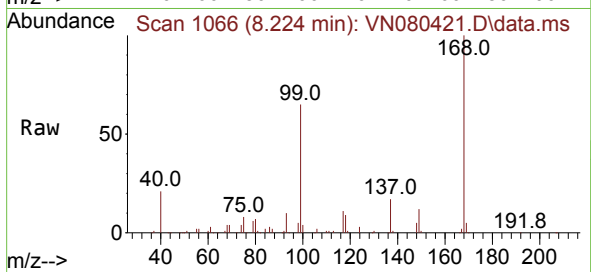
Lab File: VN080421.D

Acq: 08 Dec 2023 21:07

Instrument :

MSVOA_N

ClientSampleId :



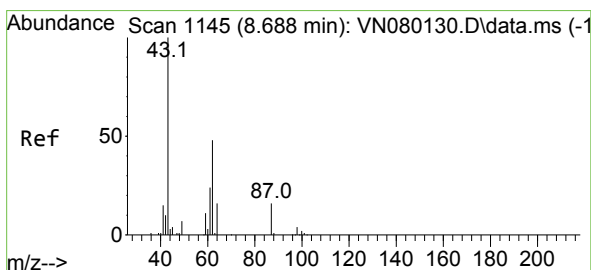
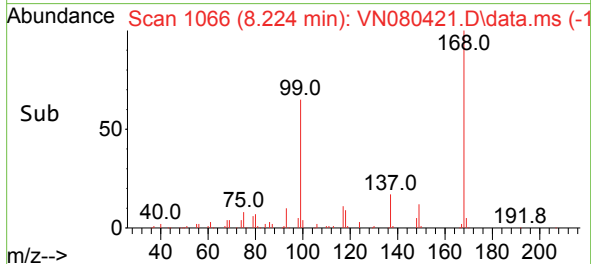
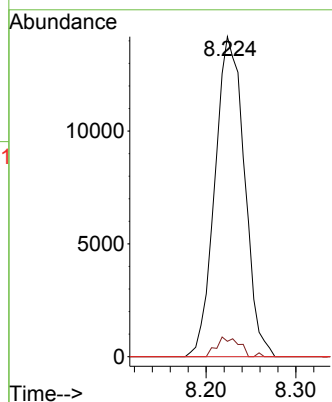
Tgt Ion:117 Resp: 32362

Ion Ratio Lower Upper

117 100

119 4.8 77.3 115.9#

121 0.0 23.3 34.9#



#43

Isopropyl Acetate

Concen: 20.057 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. -0.000 min

Lab File: VN080421.D

Acq: 08 Dec 2023 21:07

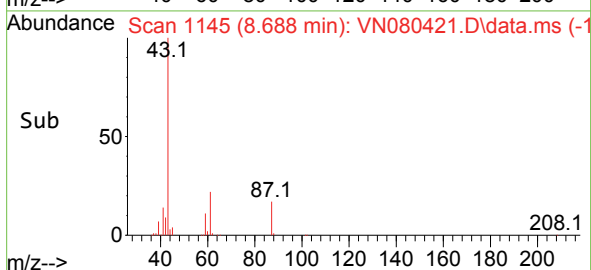
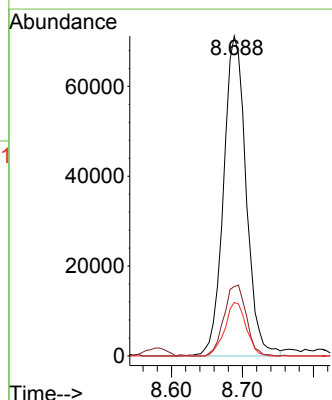
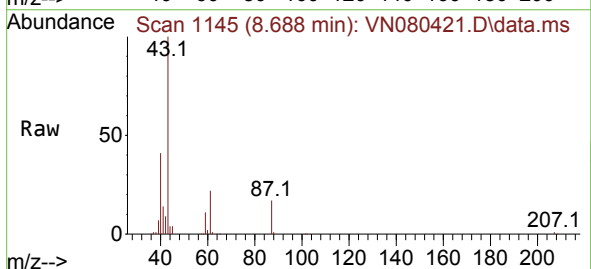
Tgt Ion: 43 Resp: 156986

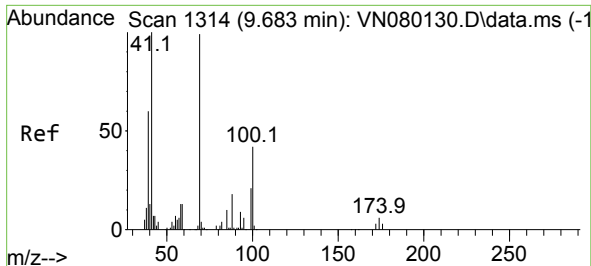
Ion Ratio Lower Upper

43 100

61 21.9 24.7 37.1#

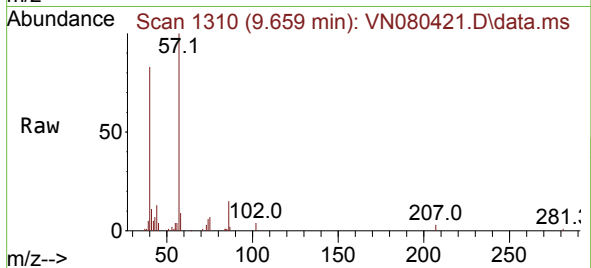
87 15.8 14.6 21.8



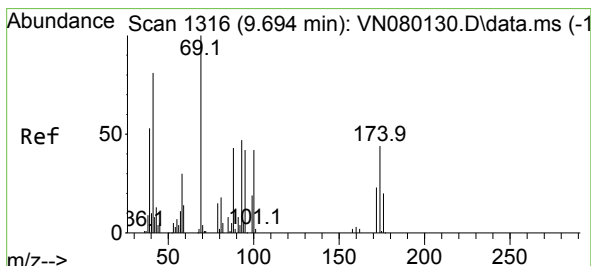
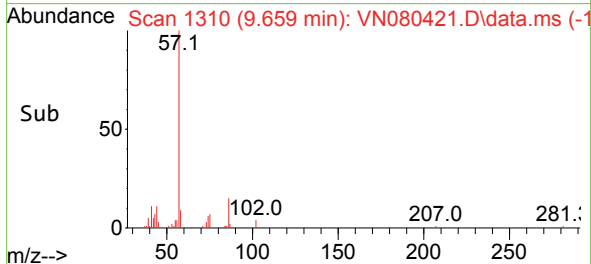
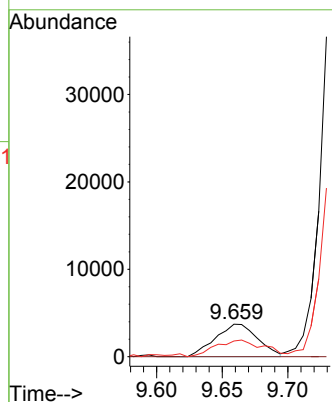


#48
Methyl methacrylate
Concen: 2.071 ug/l
RT: 9.659 min Scan# 11
Delta R.T. -0.024 min
Lab File: VN080421.D
Acq: 08 Dec 2023 21:07

Instrument :
MSVOA_N
ClientSampleId :

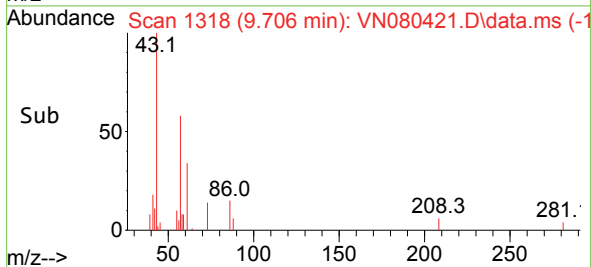
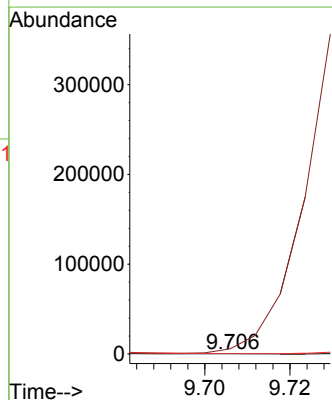
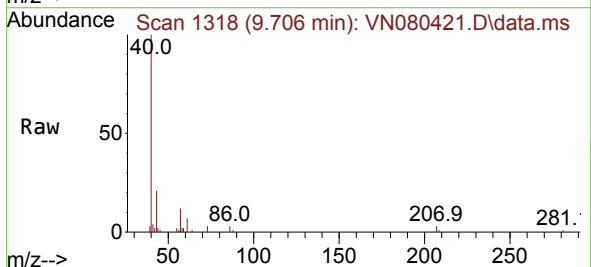


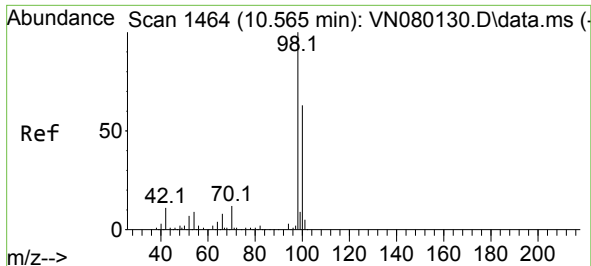
Tgt Ion: 41 Resp: 8353
Ion Ratio Lower Upper
41 100
69 0.0 90.4 135.6#
39 58.8 54.6 81.8



#49
1,4-Dioxane
Concen: 5.082 ug/l
RT: 9.706 min Scan# 1318
Delta R.T. 0.012 min
Lab File: VN080421.D
Acq: 08 Dec 2023 21:07

Tgt Ion: 88 Resp: 341
Ion Ratio Lower Upper
88 100
43 0.0 17.0 25.6#
58 0.0 47.0 70.4#

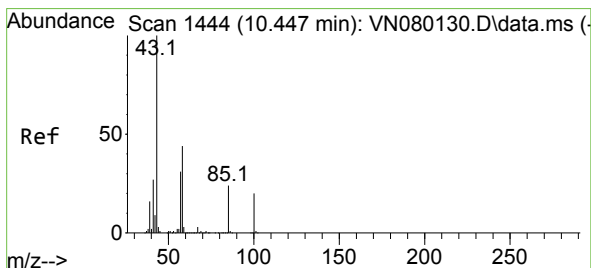
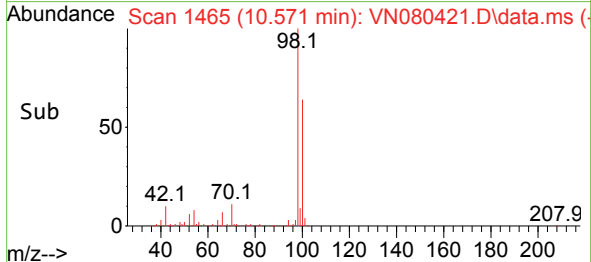
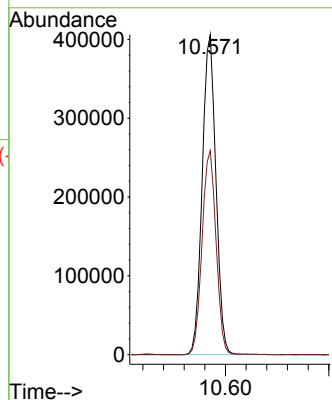
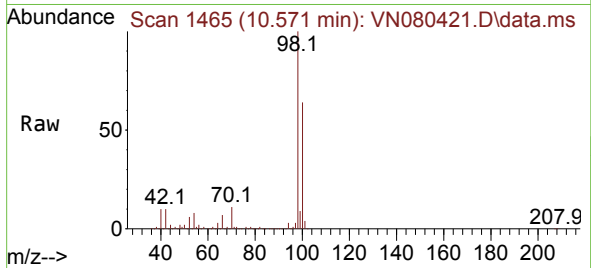




#50
Toluene-d8
Concen: 51.685 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. 0.006 min
Lab File: VN080421.D
Acq: 08 Dec 2023 21:07

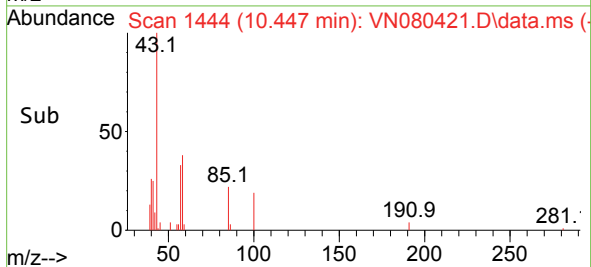
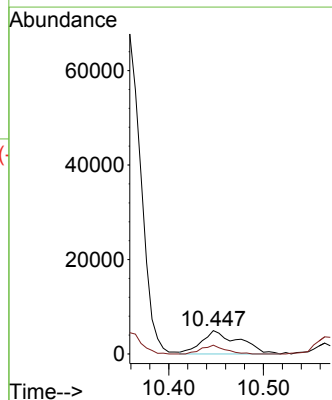
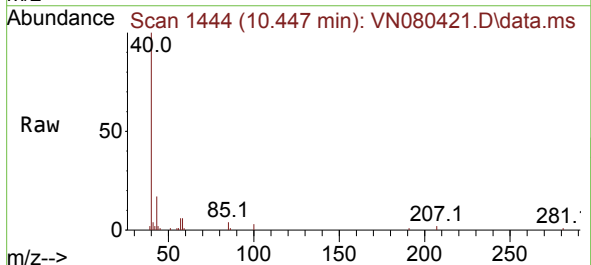
Instrument :
MSVOA_N
ClientSampleId :

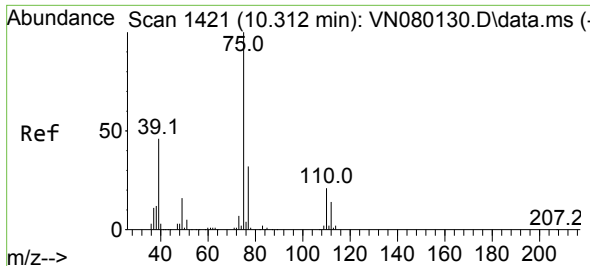
Tgt Ion: 98 Resp: 746212
Ion Ratio Lower Upper
98 100
100 64.9 52.0 78.0



#51
4-Methyl-2-Pentanone
Concen: 3.355 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. -0.000 min
Lab File: VN080421.D
Acq: 08 Dec 2023 21:07

Tgt Ion: 43 Resp: 13595
Ion Ratio Lower Upper
43 100
58 23.7 36.6 54.8#

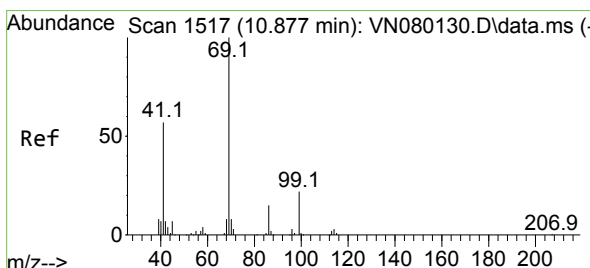
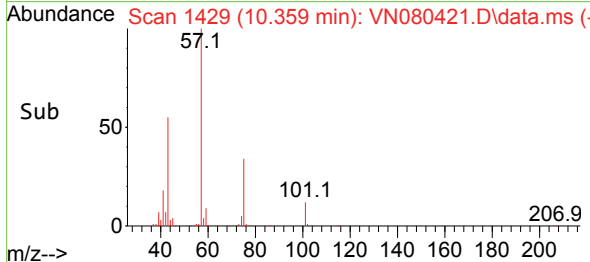
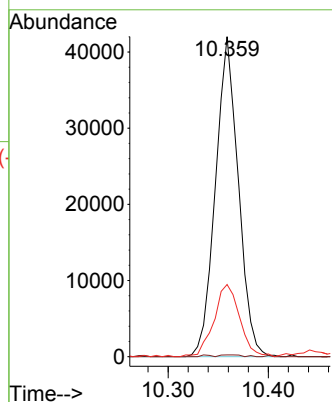
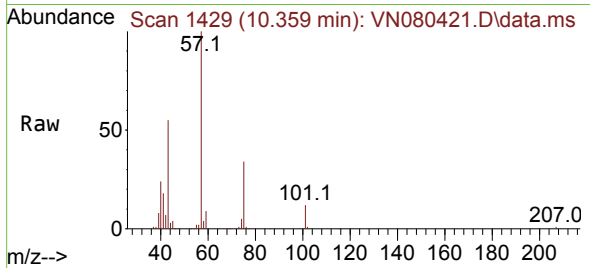




#54
 cis-1,3-Dichloropropene
 Concen: 9.934 ug/l
 RT: 10.359 min Scan# 1429
 Delta R.T. 0.047 min
 Lab File: VN080421.D
 Acq: 08 Dec 2023 21:07

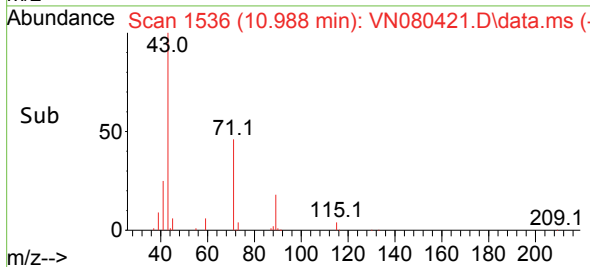
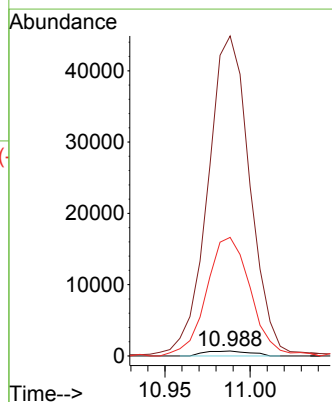
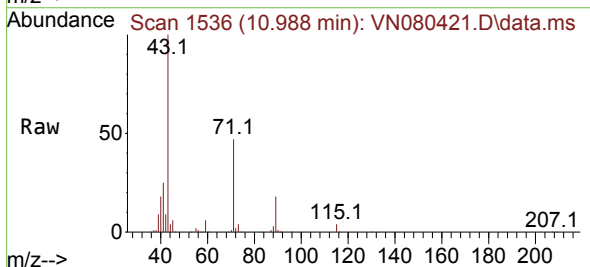
Instrument :
 MSVOA_N
 ClientSampleId :

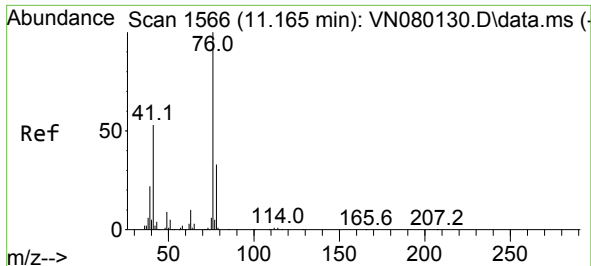
Tgt Ion: 75 Resp: 66501
 Ion Ratio Lower Upper
 75 100
 77 0.6 26.1 39.1#
 39 22.5 31.6 47.4#



#56
 Ethyl methacrylate
 Concen: 0.323 ug/l
 RT: 10.988 min Scan# 1536
 Delta R.T. 0.112 min
 Lab File: VN080421.D
 Acq: 08 Dec 2023 21:07

Tgt Ion: 69 Resp: 1299
 Ion Ratio Lower Upper
 69 100
 41 6002.7 39.6 59.4#
 39 2310.7 28.6 43.0#





#57

1,3-Dichloropropane

Concen: 1.107 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.035 min

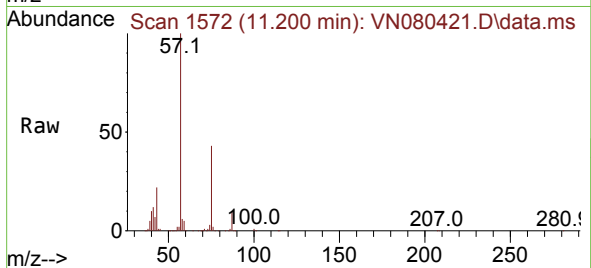
Lab File: VN080421.D

Acq: 08 Dec 2023 21:07

Instrument :

MSVOA_N

ClientSampleId :

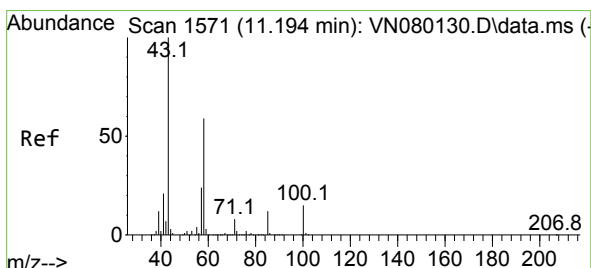
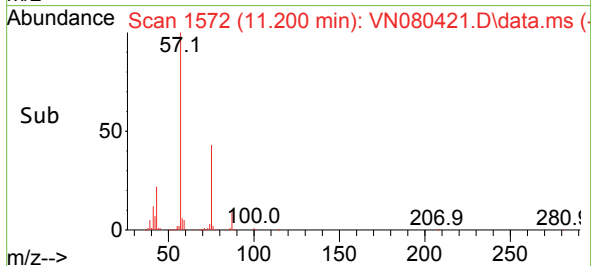
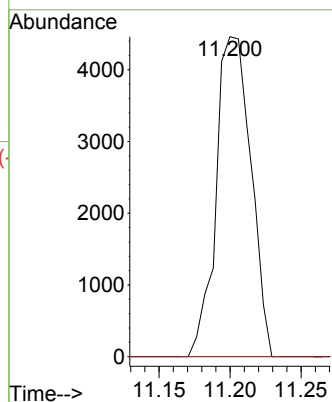


Tgt Ion: 76 Resp: 7605

Ion Ratio Lower Upper

76 100

78 0.0 26.1 39.1#



#59

2-Hexanone

Concen: 40.530 ug/l

RT: 11.171 min Scan# 1567

Delta R.T. -0.024 min

Lab File: VN080421.D

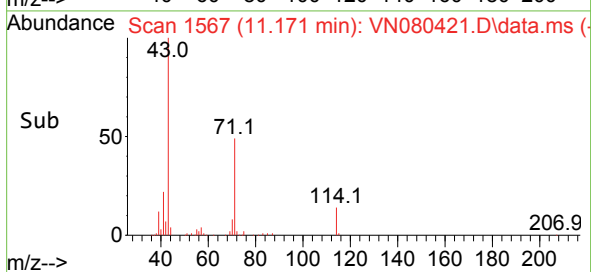
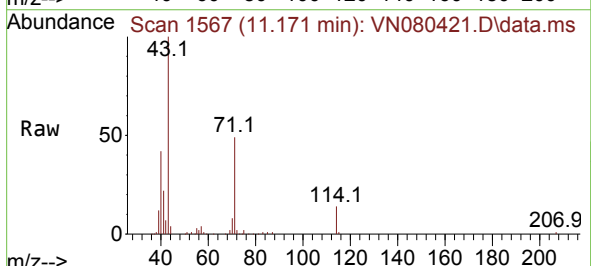
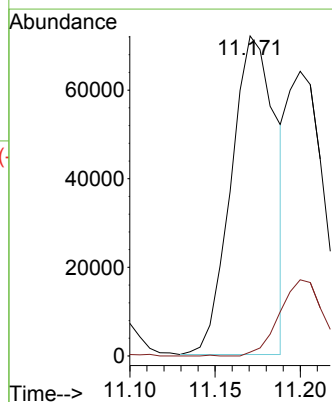
Acq: 08 Dec 2023 21:07

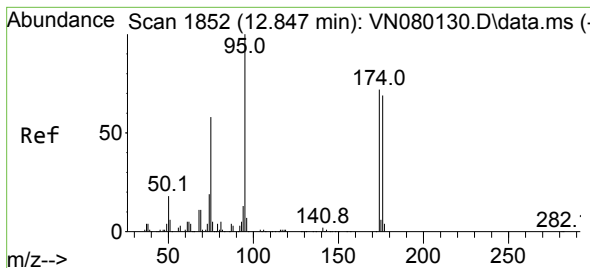
Tgt Ion: 43 Resp: 131973

Ion Ratio Lower Upper

43 100

58 0.0 31.7 95.1#

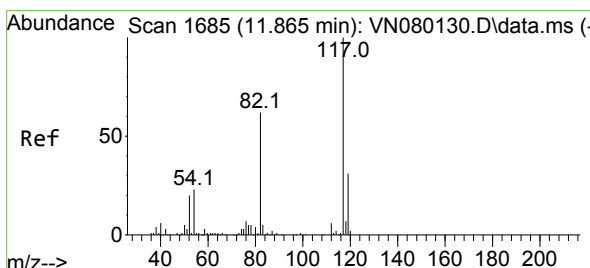
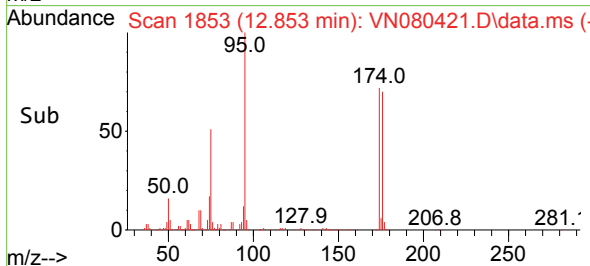
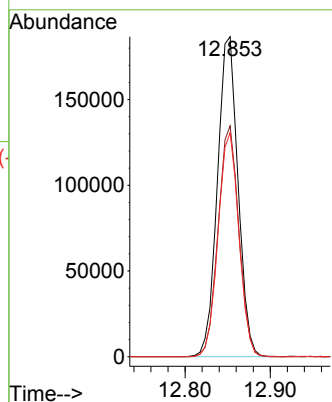
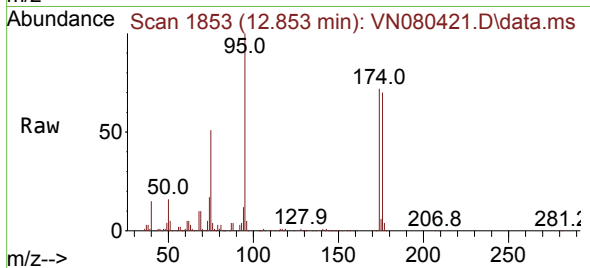




#62
4-Bromofluorobenzene
Concen: 57.492 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.006 min
Lab File: VN080421.D
Acq: 08 Dec 2023 21:07

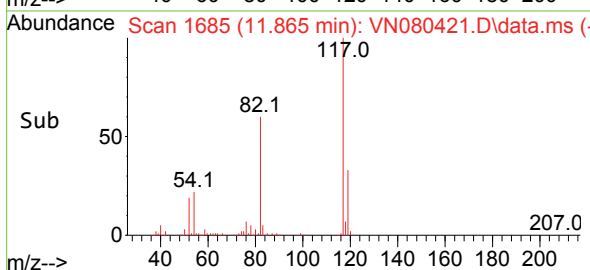
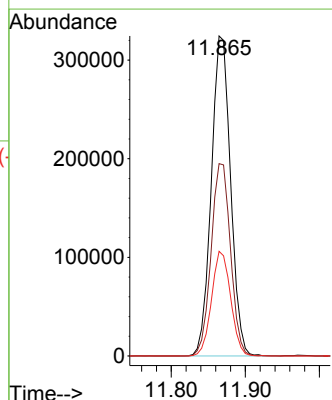
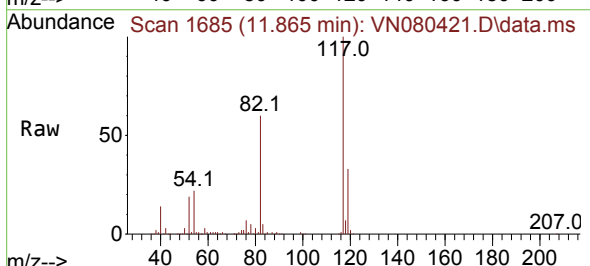
Instrument :
MSVOA_N
ClientSampleId :

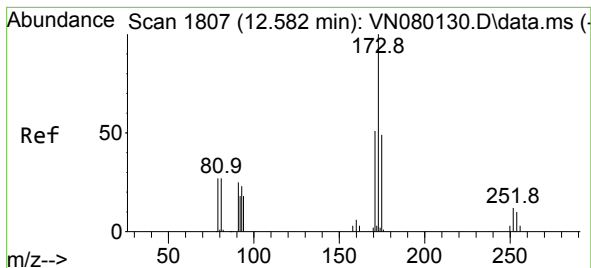
Tgt Ion: 95 Resp: 313525
Ion Ratio Lower Upper
95 100
174 72.5 0.0 143.8
176 70.2 0.0 135.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN080421.D
Acq: 08 Dec 2023 21:07

Tgt Ion: 117 Resp: 585864
Ion Ratio Lower Upper
117 100
82 60.1 44.0 66.0
119 32.7 25.6 38.4





#71

Bromoform

Concen: 0.261 ug/l

RT: 12.847 min Scan# 11

Delta R.T. 0.265 min

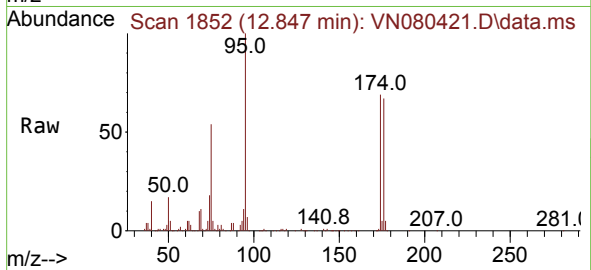
Lab File: VN080421.D

Acq: 08 Dec 2023 21:07

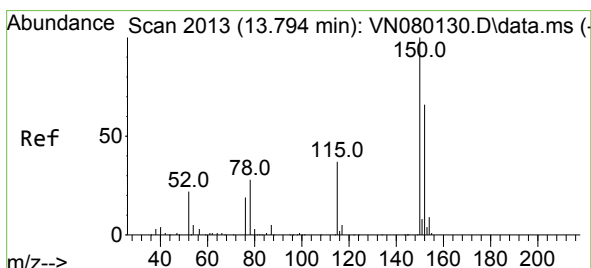
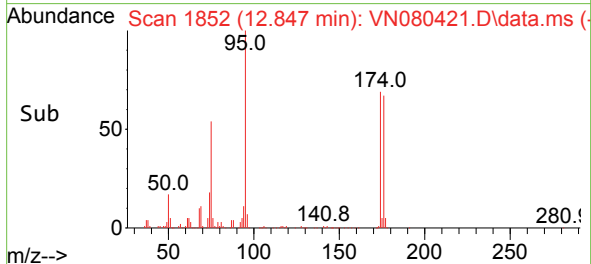
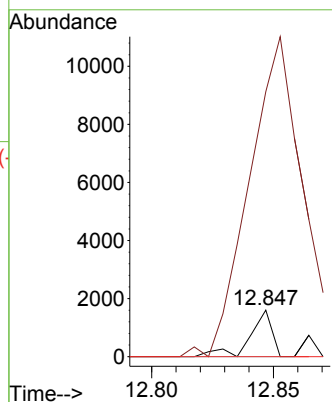
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	173	Resp:	996
Ion Ratio	Lower	Upper	
173	100		
175	1412.4	24.3	73.0#
254	0.0	0.0	0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

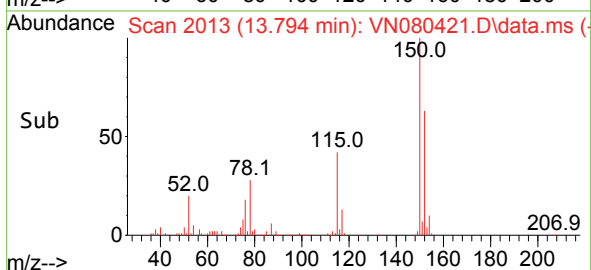
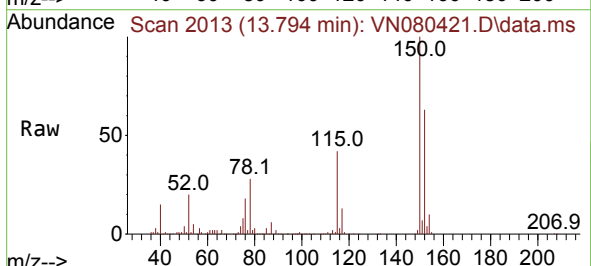
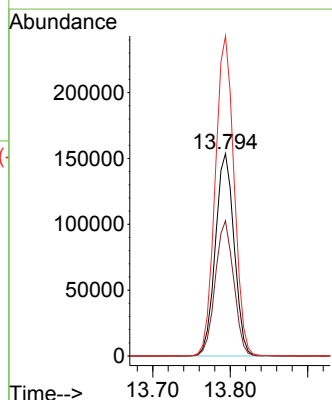
RT: 13.794 min Scan# 2013

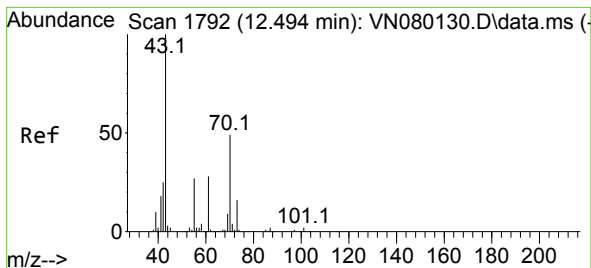
Delta R.T. -0.000 min

Lab File: VN080421.D

Acq: 08 Dec 2023 21:07

Tgt Ion:	152	Resp:	257787
Ion Ratio	Lower	Upper	
152	100		
115	65.9	32.3	96.8
150	158.7	0.0	355.8





#74

N-amy1 acetate

Concen: 1.396 ug/l

RT: 12.459 min Scan# 1

Delta R.T. -0.035 min

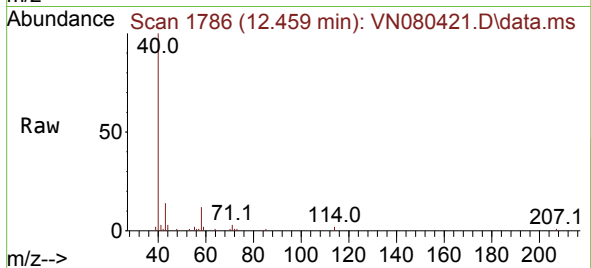
Lab File: VN080421.D

Acq: 08 Dec 2023 21:07

Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion: 43 Resp: 8719

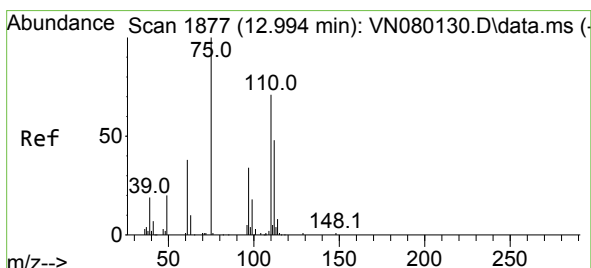
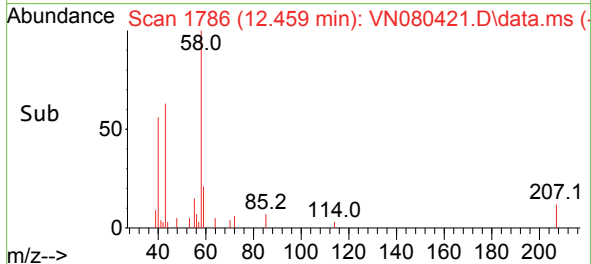
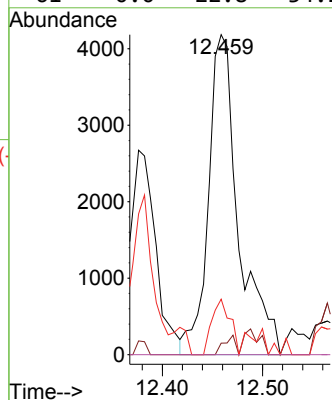
Ion Ratio Lower Upper

43 100

70 2.3 43.4 65.2#

55 10.5 21.4 32.0#

61 0.0 22.8 34.2#



#76

1,2,3-Trichloropropane

Concen: 26.063 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.147 min

Lab File: VN080421.D

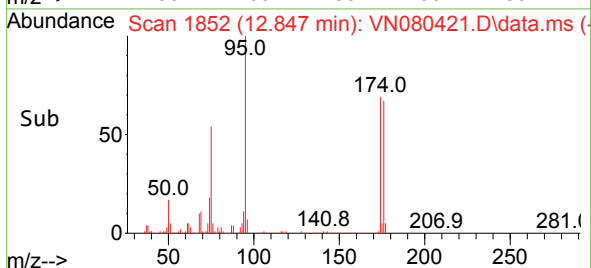
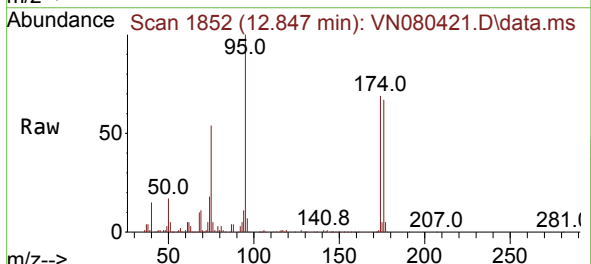
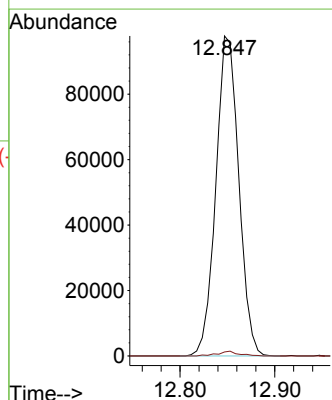
Acq: 08 Dec 2023 21:07

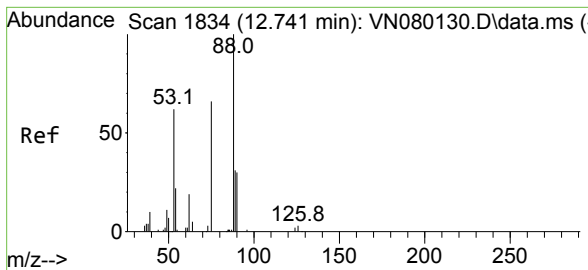
Tgt Ion: 75 Resp: 164617

Ion Ratio Lower Upper

75 100

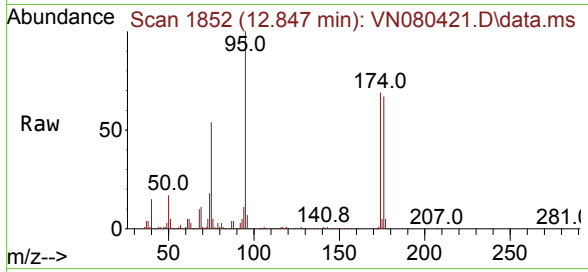
77 1.4 84.5 253.5#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 88.055 ug/l
 RT: 12.847 min Scan# 11
 Delta R.T. 0.106 min
 Lab File: VN080421.D
 Acq: 08 Dec 2023 21:07

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion: 75 Resp: 164617
 Ion Ratio Lower Upper
 75 100
 53 0.1 67.4 101.2#
 89 0.0 38.8 58.2#

