

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120623\
 Data File : VN080388.D
 Acq On : 06 Dec 2023 15:58
 Operator : JC\MD
 Sample : 05629-03
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Dec 07 01:01:31 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)

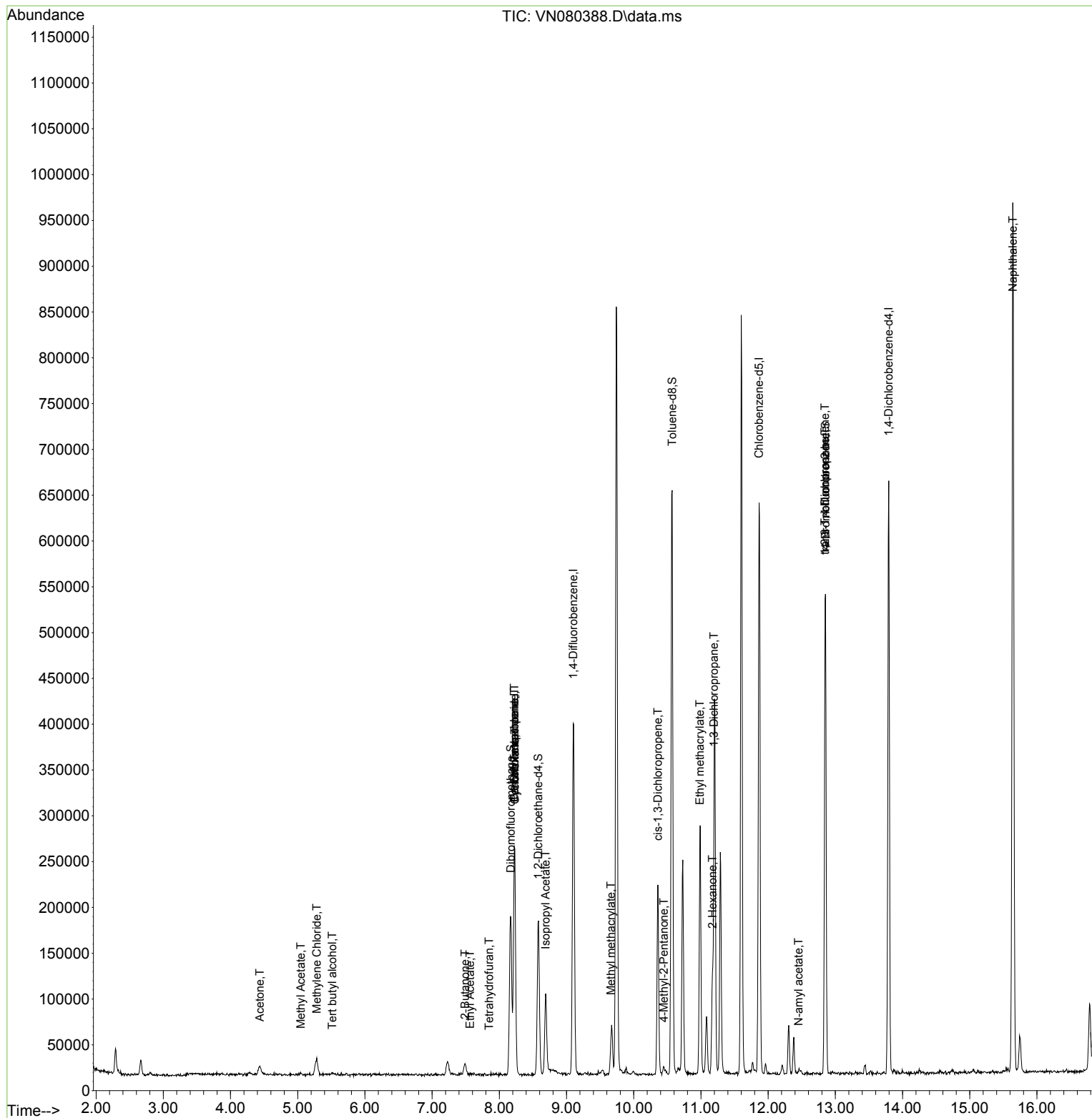
Internal Standards						
1) Pentafluorobenzene	8.224	168	175471	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	330351	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	362118	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	171107	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	154052	53.171	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 106.340%	
35) Dibromofluoromethane	8.171	113	123796	50.787	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 101.580%	
50) Toluene-d8	10.571	98	451603	51.395	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 102.800%	
62) 4-Bromofluorobenzene	12.853	95	187566	56.514	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 113.020%	
Target Compounds						
					Qvalue	
6) Chloroethane	3.101	64	341	Below Cal	#	43
11) Tert butyl alcohol	5.512	59	4144	13.006	ug/l #	77
16) Acetone	4.436	43	18779	19.297	ug/l	89
18) Methyl Acetate	5.048	43	2718	0.869	ug/l #	52
20) Methylene Chloride	5.283	84	14295	7.015	ug/l #	85
25) 2-Butanone	7.489	43	19419	16.796	ug/l #	82
29) Tetrahydrofuran	7.847	42	230	0.371	ug/l #	20
31) Cyclohexane	8.230	56	3852	1.223	ug/l #	21
36) 1,1-Dichloropropene	8.224	75	14096	3.994	ug/l #	50
37) Ethyl Acetate	7.565	43	1954	0.798	ug/l #	84
38) Carbon Tetrachloride	8.224	117	20569	4.593	ug/l #	17
43) Isopropyl Acetate	8.688	43	94400	19.817	ug/l #	88
48) Methyl methacrylate	9.659	41	4467	1.820	ug/l #	35
51) 4-Methyl-2-Pentanone	10.447	43	8065	3.270	ug/l #	70
54) cis-1,3-Dichloropropene	10.359	75	39132	9.605	ug/l #	65
56) Ethyl methacrylate	10.982	69	935	0.382	ug/l #	1
57) 1,3-Dichloropropane	11.194	76	4436	1.061	ug/l #	42
59) 2-Hexanone	11.171	43	79555	40.144	ug/l #	19
74) N-amyl acetate	12.453	43	4122	0.994	ug/l #	38
76) 1,2,3-Trichloropropane	12.847	75	106146	25.319	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	106146	85.541	ug/l #	15
95) Naphthalene	15.641	128	871244	89.380	ug/l	99

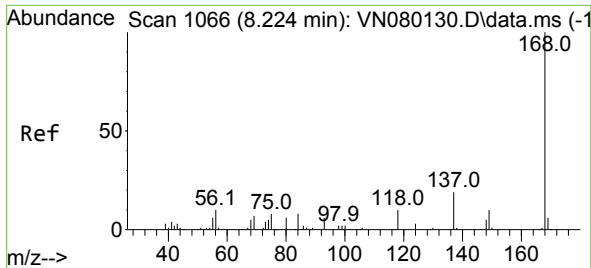
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Dec 07 01:01:31 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

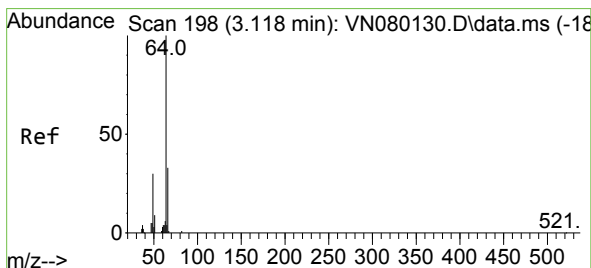
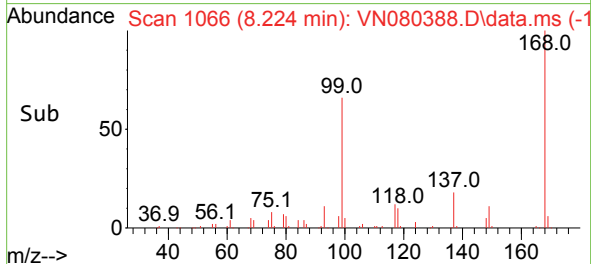
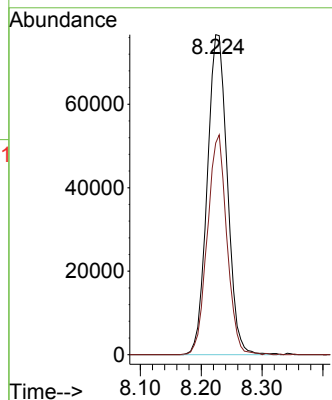
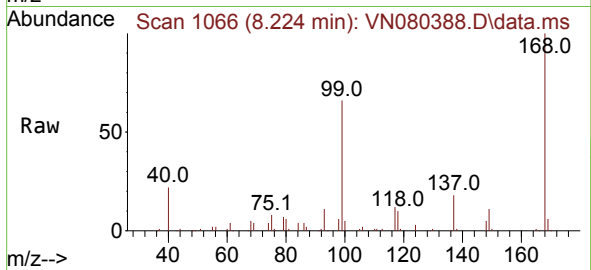




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN080388.D
Acq: 06 Dec 2023 15:58

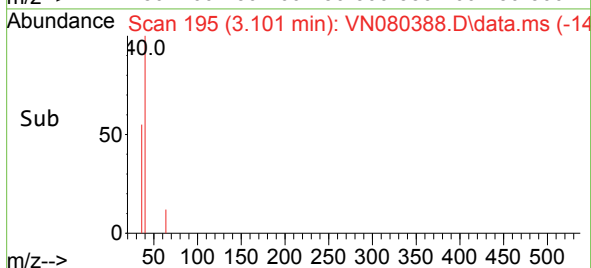
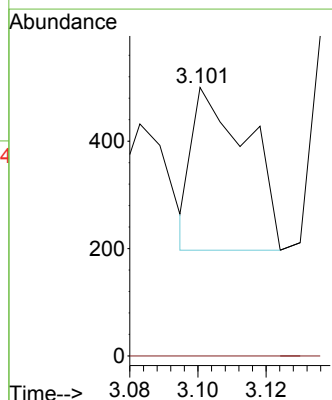
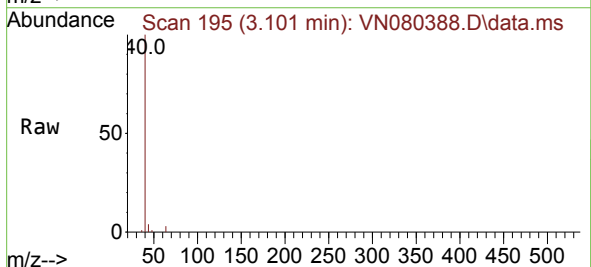
Instrument :
MSVOA_N
ClientSampleId :

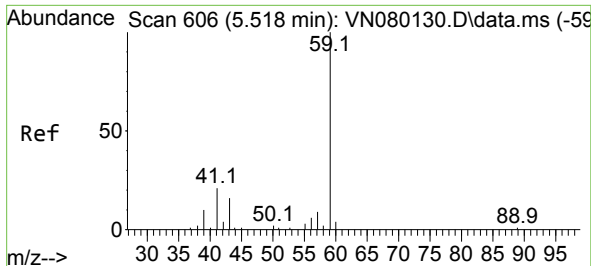
Tgt Ion:168 Resp: 175471
Ion Ratio Lower Upper
168 100
99 66.2 53.0 79.6



#6
Chloroethane
Concen: Below Cal
RT: 3.101 min Scan# 195
Delta R.T. -0.017 min
Lab File: VN080388.D
Acq: 06 Dec 2023 15:58

Tgt Ion: 64 Resp: 341
Ion Ratio Lower Upper
64 100
66 0.0 25.4 38.2#

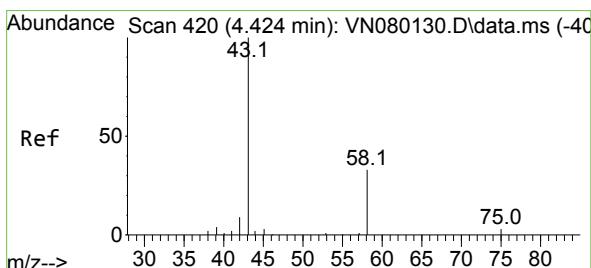
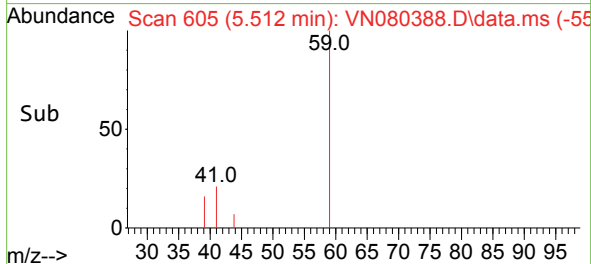
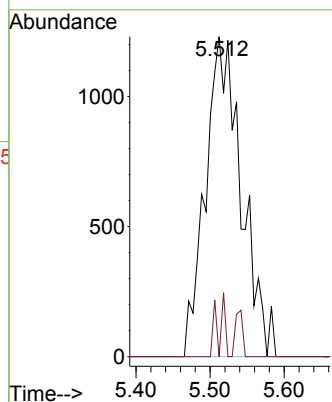
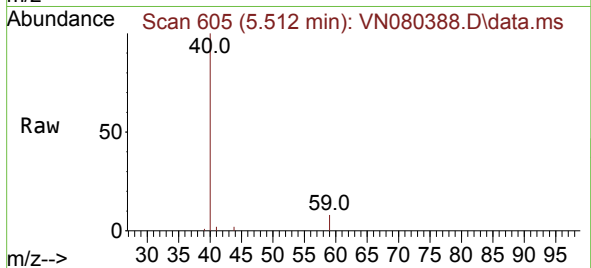




#11
Tert butyl alcohol
Concen: 13.006 ug/l
RT: 5.512 min Scan# 606
Delta R.T. -0.006 min
Lab File: VN080388.D
Acq: 06 Dec 2023 15:58

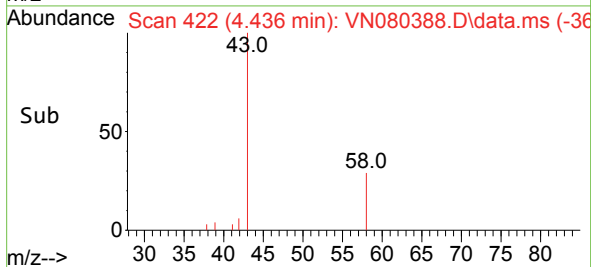
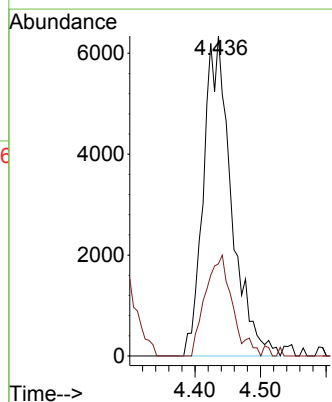
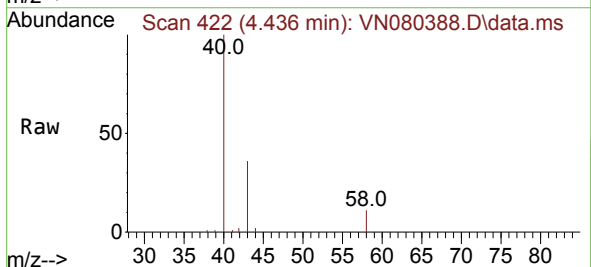
Instrument :
MSVOA_N
ClientSampleId :

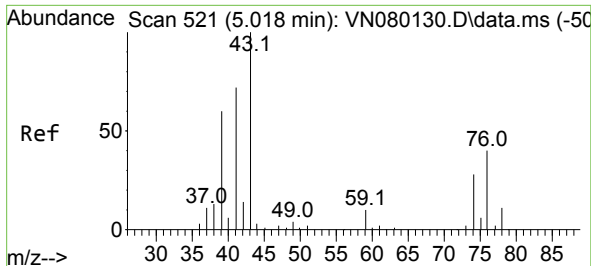
Tgt Ion: 59 Resp: 4144
Ion Ratio Lower Upper
59 100
57 1.9 8.2 12.4#



#16
Acetone
Concen: 19.297 ug/l
RT: 4.436 min Scan# 422
Delta R.T. 0.012 min
Lab File: VN080388.D
Acq: 06 Dec 2023 15:58

Tgt Ion: 43 Resp: 18779
Ion Ratio Lower Upper
43 100
58 28.8 28.0 42.0

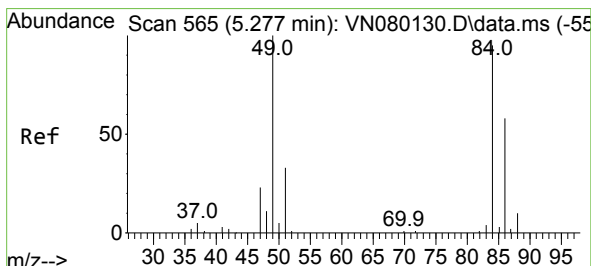
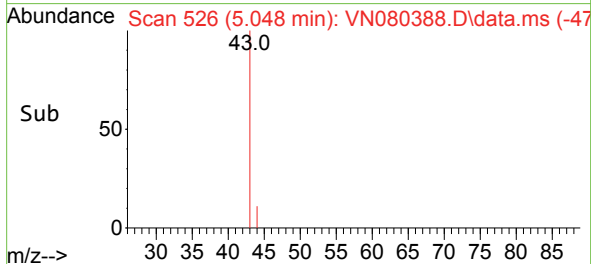
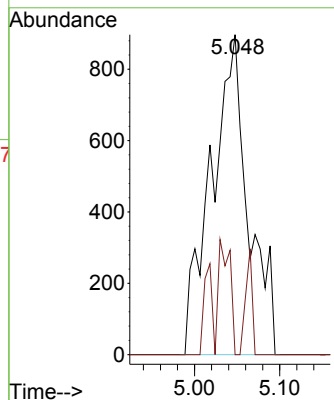
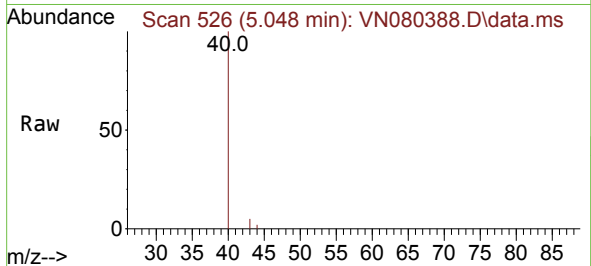




#18
Methyl Acetate
Concen: 0.869 ug/l
RT: 5.048 min Scan# 51
Delta R.T. 0.029 min
Lab File: VN080388.D
Acq: 06 Dec 2023 15:58

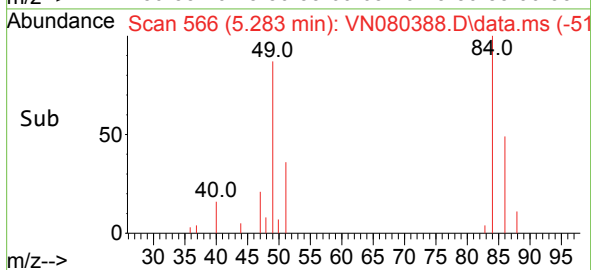
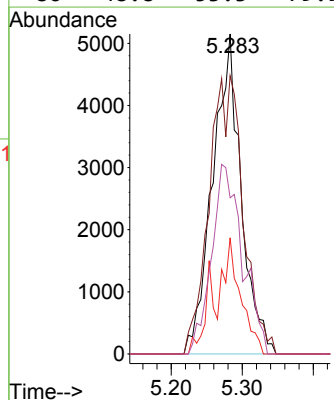
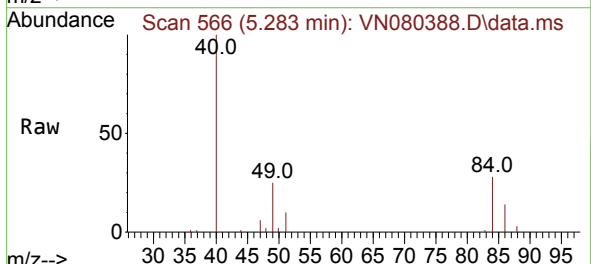
Instrument :
MSVOA_N
ClientSampleId :

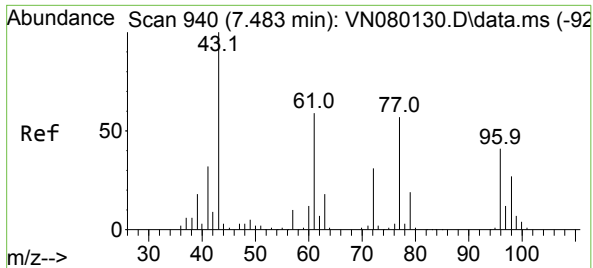
Tgt Ion: 43 Resp: 2718
Ion Ratio Lower Upper
43 100
74 5.8 26.2 39.4#



#20
Methylene Chloride
Concen: 7.015 ug/l
RT: 5.283 min Scan# 566
Delta R.T. 0.006 min
Lab File: VN080388.D
Acq: 06 Dec 2023 15:58

Tgt Ion: 84 Resp: 14295
Ion Ratio Lower Upper
84 100
49 87.0 79.7 119.5
51 36.3 25.2 37.8
86 48.8 53.3 79.9#

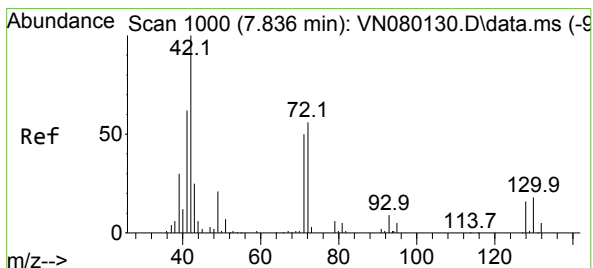
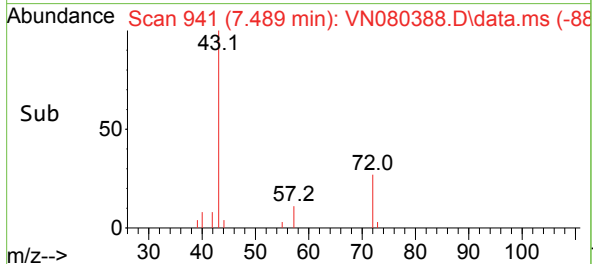
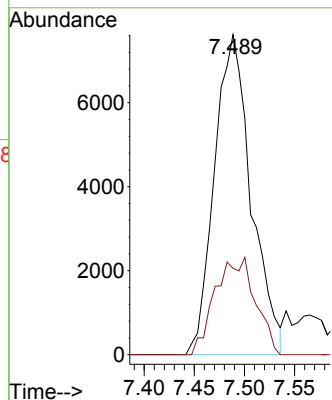
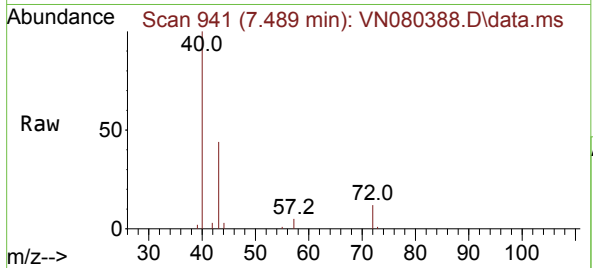




#25
2-Butanone
Concen: 16.796 ug/l
RT: 7.489 min Scan# 941
Delta R.T. 0.006 min
Lab File: VN080388.D
Acq: 06 Dec 2023 15:58

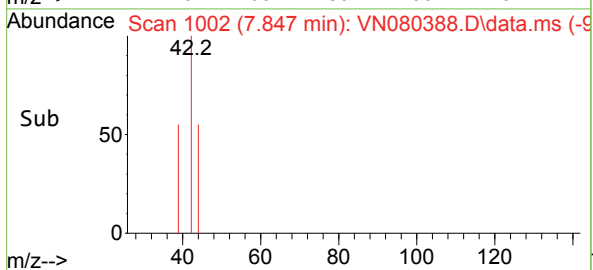
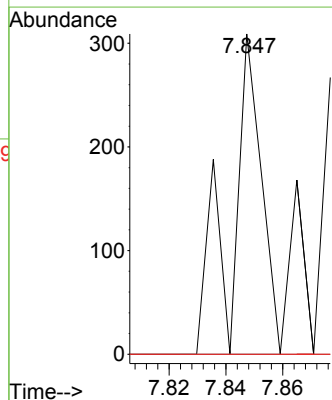
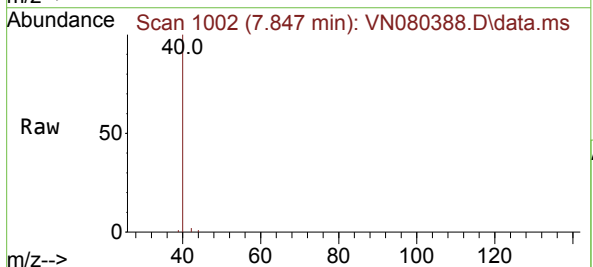
Instrument :
MSVOA_N
ClientSampleId :

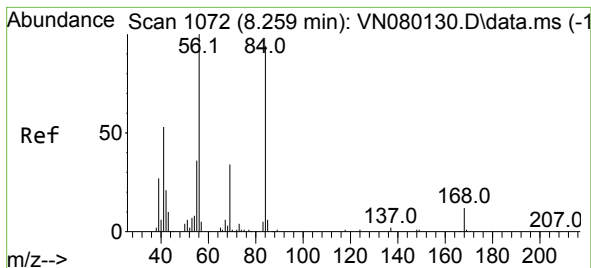
Tgt Ion: 43 Resp: 19419
Ion Ratio Lower Upper
43 100
72 27.0 30.2 45.2#



#29
Tetrahydrofuran
Concen: 0.371 ug/l
RT: 7.847 min Scan# 1002
Delta R.T. 0.012 min
Lab File: VN080388.D
Acq: 06 Dec 2023 15:58

Tgt Ion: 42 Resp: 230
Ion Ratio Lower Upper
42 100
72 0.0 49.8 74.6#
71 0.0 47.4 71.2#





#31

Cyclohexane

Concen: 1.223 ug/l

RT: 8.230 min Scan# 1106

Delta R.T. -0.029 min

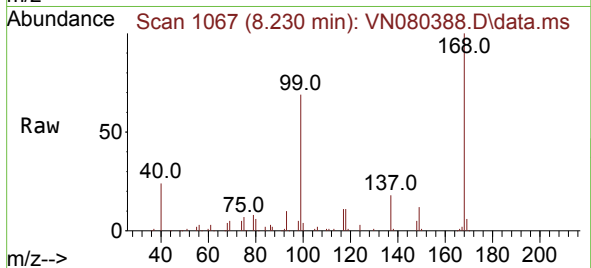
Lab File: VN080388.D

Acq: 06 Dec 2023 15:58

Instrument :

MSVOA_N

ClientSampleId :



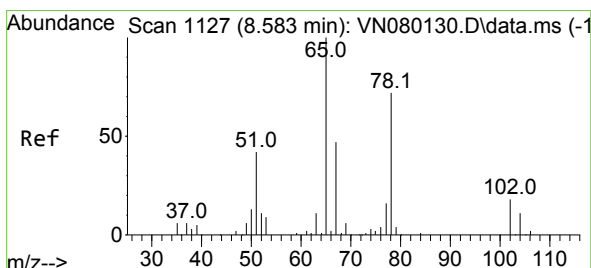
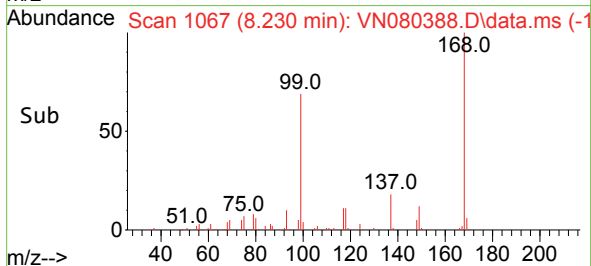
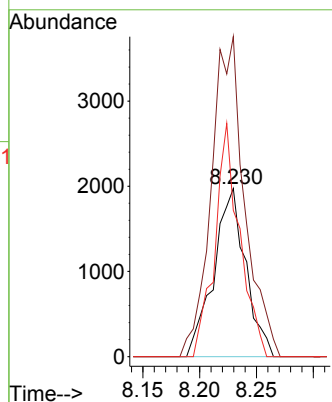
Tgt Ion: 56 Resp: 3852

Ion Ratio Lower Upper

56 100

69 190.4 26.8 40.2#

84 87.0 81.8 122.6



#33

1,2-Dichloroethane-d4

Concen: 53.171 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. -0.006 min

Lab File: VN080388.D

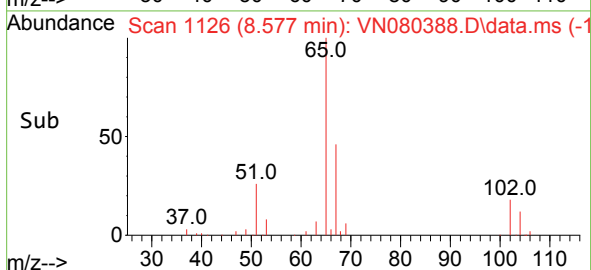
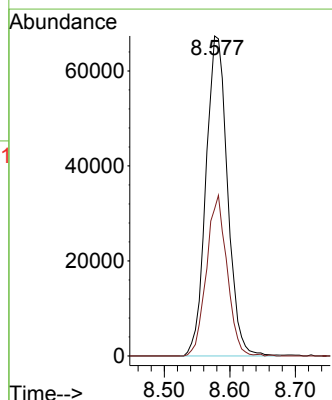
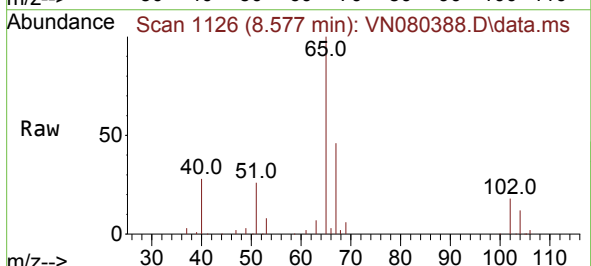
Acq: 06 Dec 2023 15:58

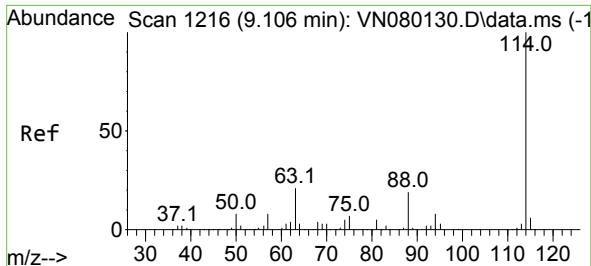
Tgt Ion: 65 Resp: 154052

Ion Ratio Lower Upper

65 100

67 47.9 0.0 106.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 11

Delta R.T. -0.006 min

Lab File: VN080388.D

Acq: 06 Dec 2023 15:58

Instrument :

MSVOA_N

ClientSampleId :

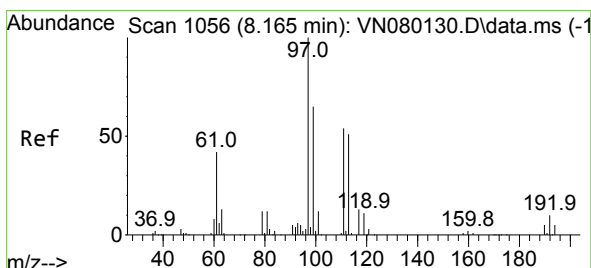
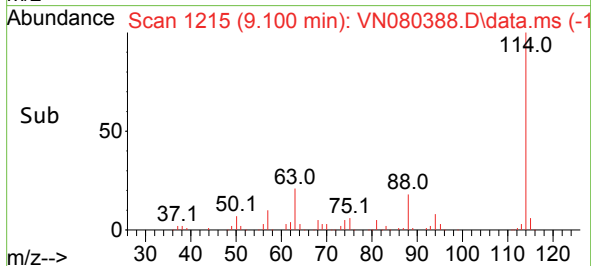
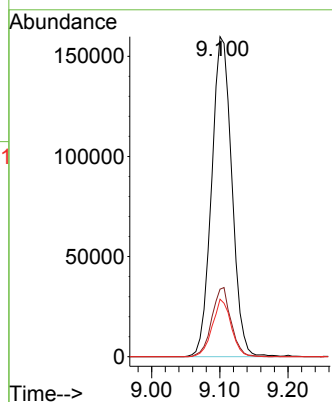
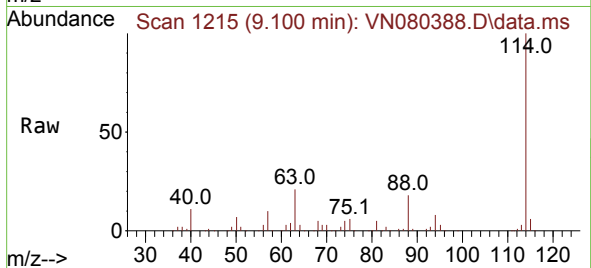
Tgt Ion:114 Resp: 330351

Ion Ratio Lower Upper

114 100

63 21.1 0.0 36.4

88 17.9 0.0 30.6



#35

Dibromofluoromethane

Concen: 50.787 ug/l

RT: 8.171 min Scan# 1057

Delta R.T. 0.006 min

Lab File: VN080388.D

Acq: 06 Dec 2023 15:58

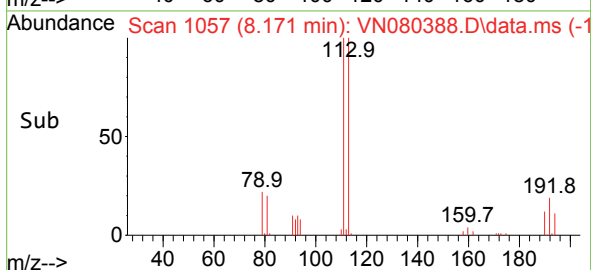
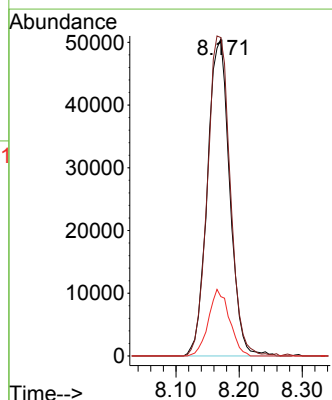
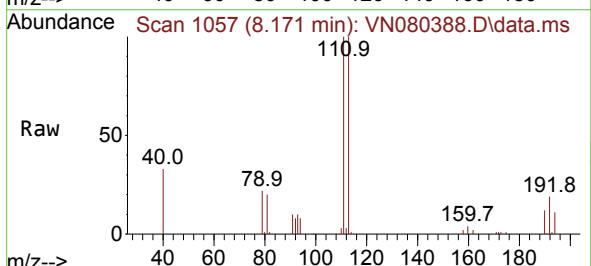
Tgt Ion:113 Resp: 123796

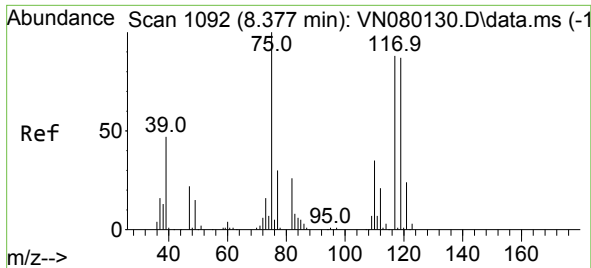
Ion Ratio Lower Upper

113 100

111 102.9 82.6 123.8

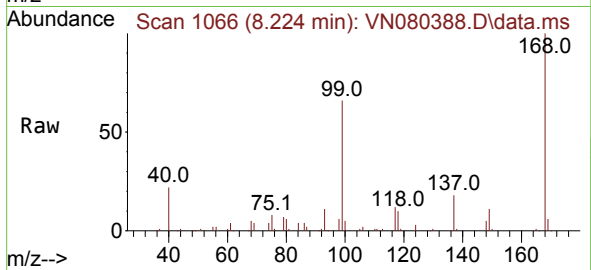
192 19.8 12.7 19.1#



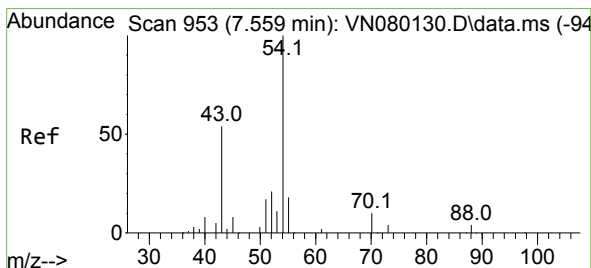
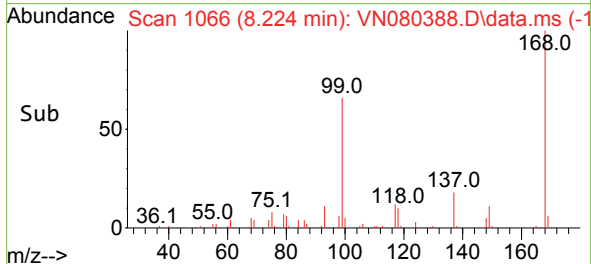
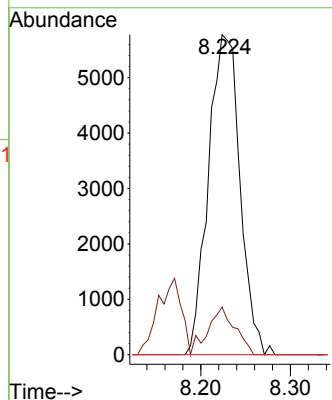


#36
1,1-Dichloropropene
Concen: 3.994 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.153 min
Lab File: VN080388.D
Acq: 06 Dec 2023 15:58

Instrument :
MSVOA_N
ClientSampleId :

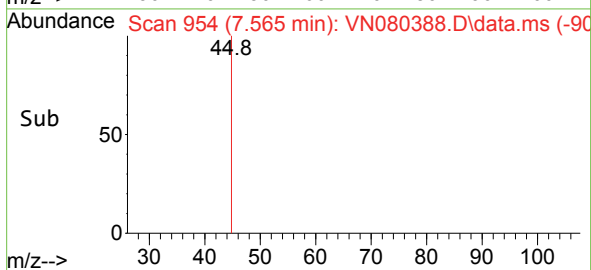
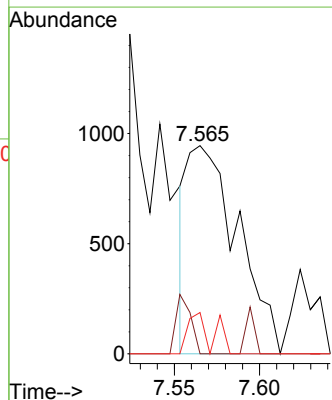
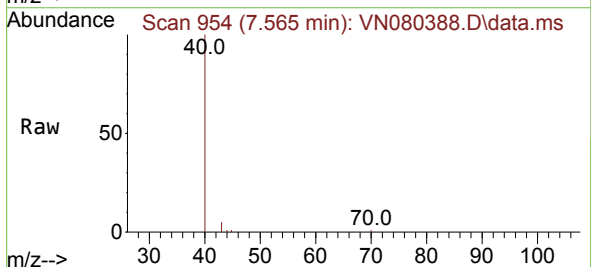


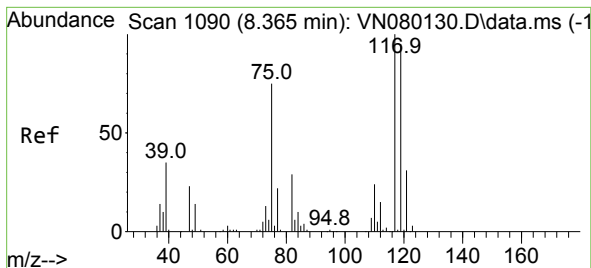
Tgt Ion: 75 Resp: 14096
Ion Ratio Lower Upper
75 100
110 11.4 19.1 57.3#
77 0.0 25.0 37.4#



#37
Ethyl Acetate
Concen: 0.798 ug/l
RT: 7.565 min Scan# 954
Delta R.T. 0.006 min
Lab File: VN080388.D
Acq: 06 Dec 2023 15:58

Tgt Ion: 43 Resp: 1954
Ion Ratio Lower Upper
43 100
61 8.3 13.2 19.8#
70 9.5 11.3 16.9#





#38

Carbon Tetrachloride

Concen: 4.593 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.141 min

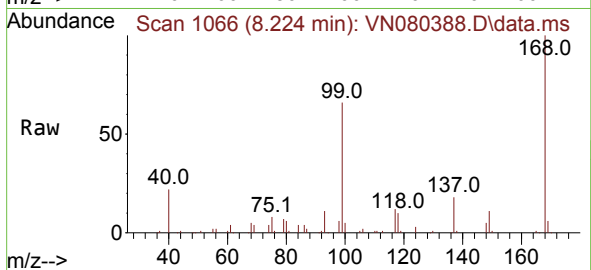
Lab File: VN080388.D

Acq: 06 Dec 2023 15:58

Instrument :

MSVOA_N

ClientSampleId :



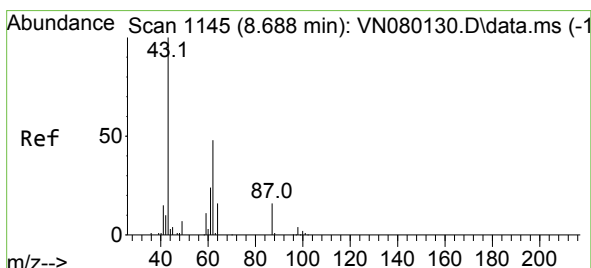
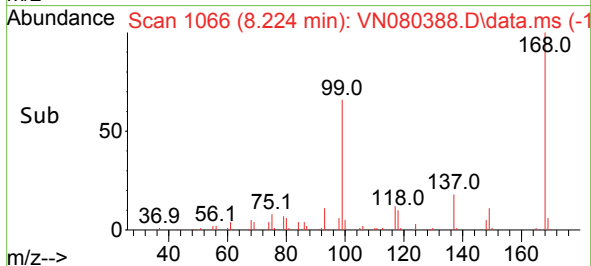
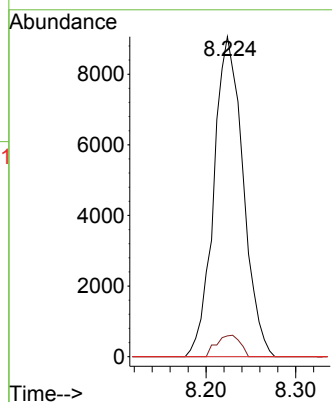
Tgt Ion:117 Resp: 20569

Ion Ratio Lower Upper

117 100

119 6.5 77.3 115.9#

121 0.0 23.3 34.9#



#43

Isopropyl Acetate

Concen: 19.817 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. -0.000 min

Lab File: VN080388.D

Acq: 06 Dec 2023 15:58

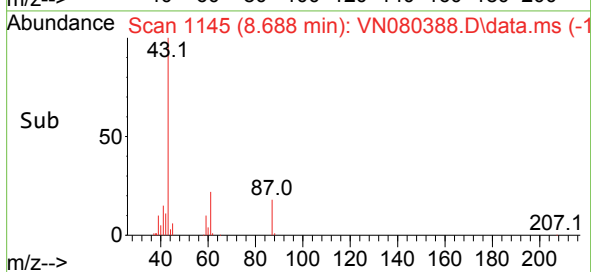
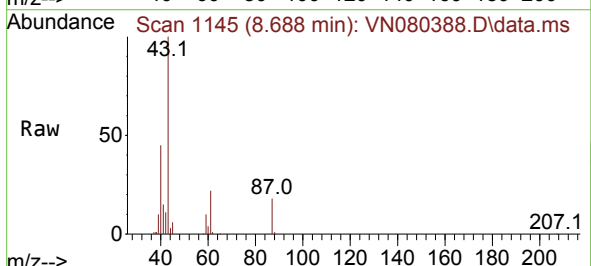
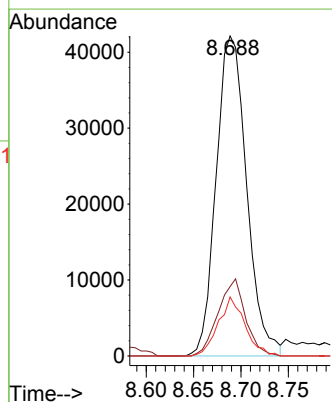
Tgt Ion: 43 Resp: 94400

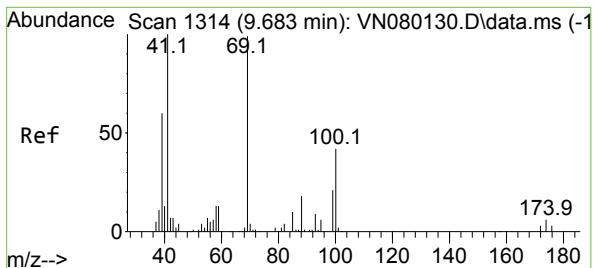
Ion Ratio Lower Upper

43 100

61 21.6 24.7 37.1#

87 16.2 14.6 21.8





#48

Methyl methacrylate

Concen: 1.820 ug/l

RT: 9.659 min Scan# 11

Delta R.T. -0.024 min

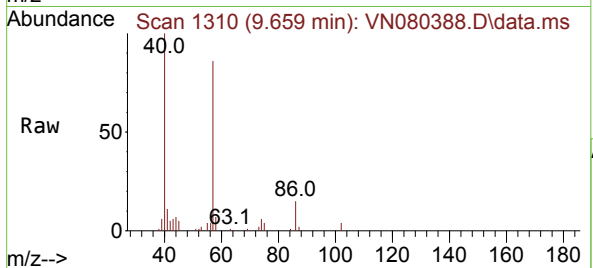
Lab File: VN080388.D

Acq: 06 Dec 2023 15:58

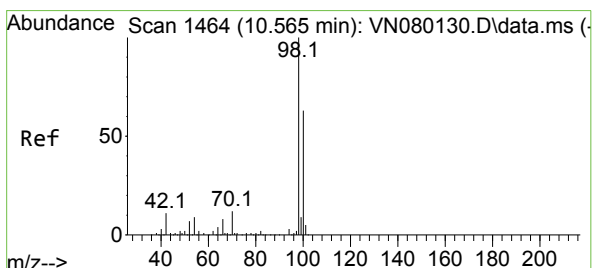
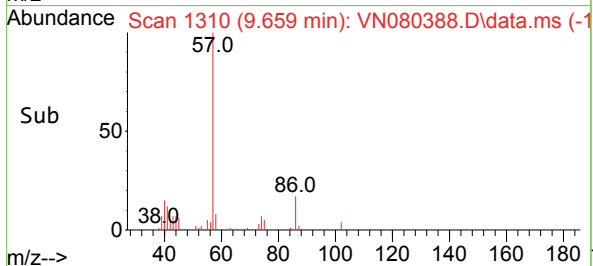
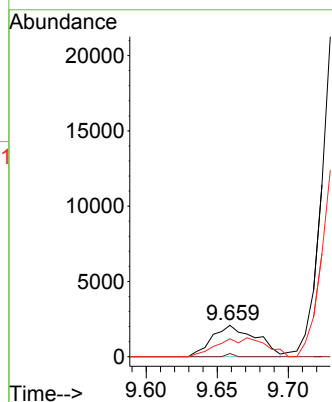
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	41	Resp:	4467
Ion Ratio	Lower	Upper	
41	100		
69	1.6	90.4	135.6#
39	66.6	54.6	81.8



#50

Toluene-d8

Concen: 51.395 ug/l

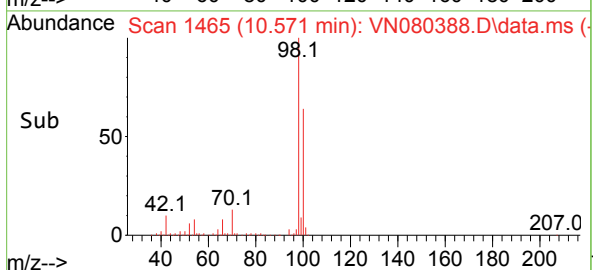
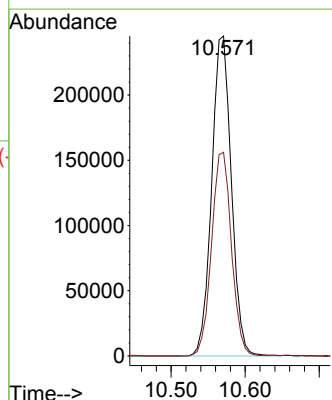
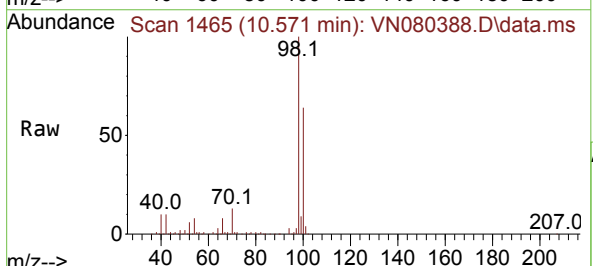
RT: 10.571 min Scan# 1465

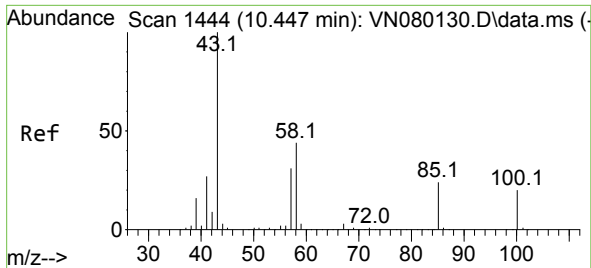
Delta R.T. 0.006 min

Lab File: VN080388.D

Acq: 06 Dec 2023 15:58

Tgt Ion:	98	Resp:	451603
Ion Ratio	Lower	Upper	
98	100		
100	64.5	52.0	78.0

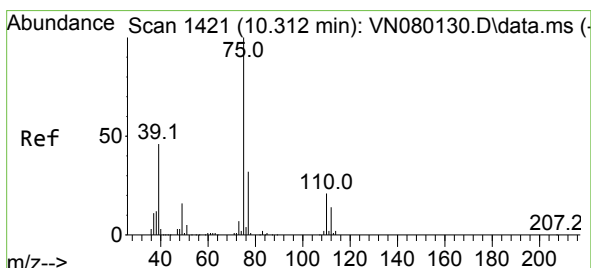
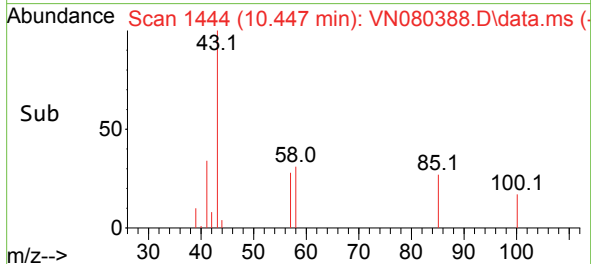
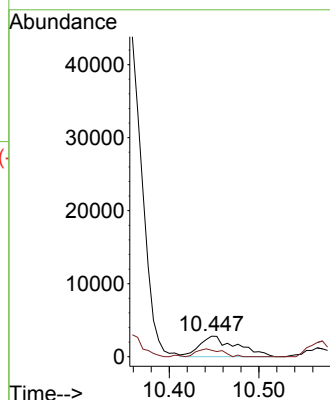
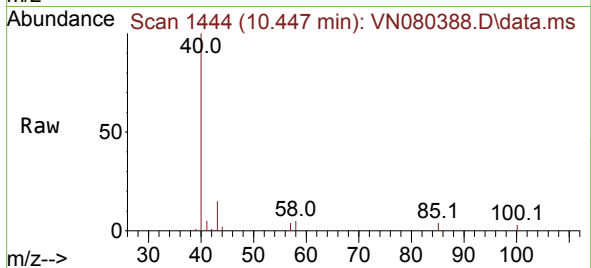




#51
4-Methyl-2-Pentanone
Concen: 3.270 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. -0.000 min
Lab File: VN080388.D
Acq: 06 Dec 2023 15:58

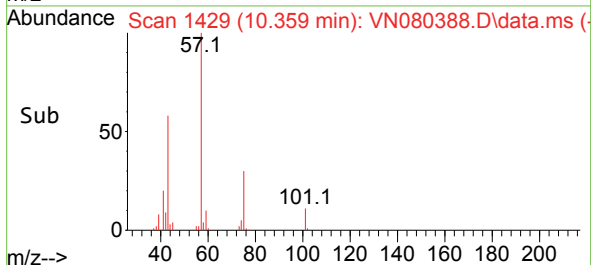
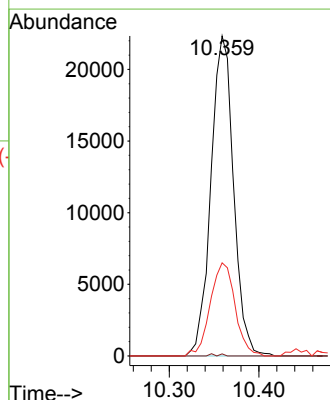
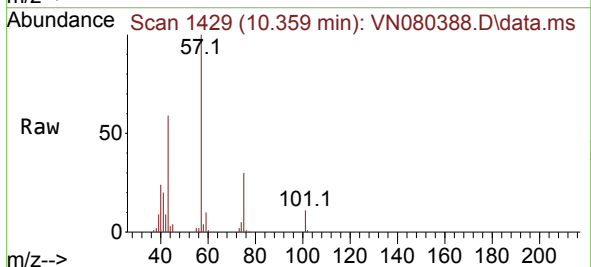
Instrument :
MSVOA_N
ClientSampleId :

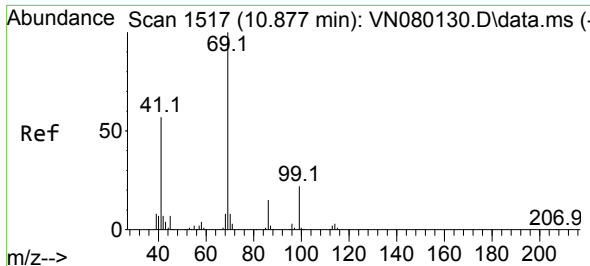
Tgt Ion: 43 Resp: 8065
Ion Ratio Lower Upper
43 100
58 25.6 36.6 54.8#



#54
cis-1,3-Dichloropropene
Concen: 9.605 ug/l
RT: 10.359 min Scan# 1429
Delta R.T. 0.047 min
Lab File: VN080388.D
Acq: 06 Dec 2023 15:58

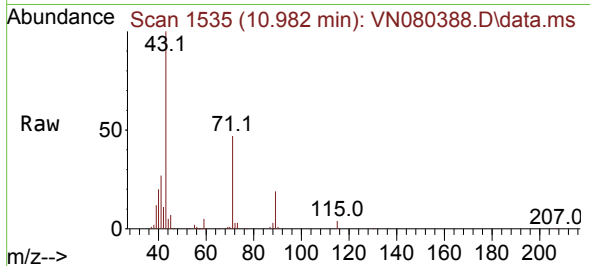
Tgt Ion: 75 Resp: 39132
Ion Ratio Lower Upper
75 100
77 0.7 26.1 39.1#
39 29.1 31.6 47.4#



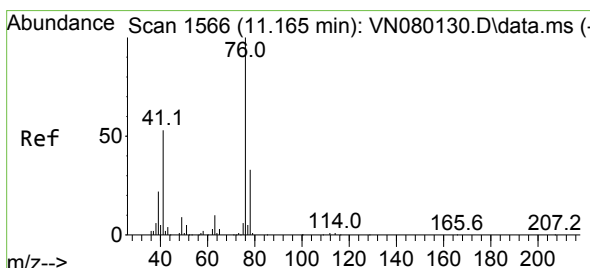
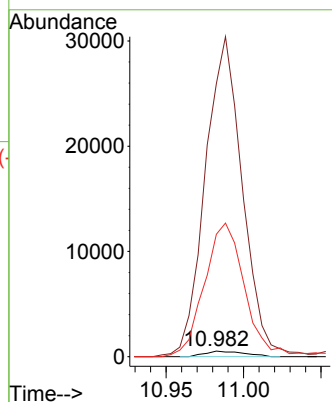
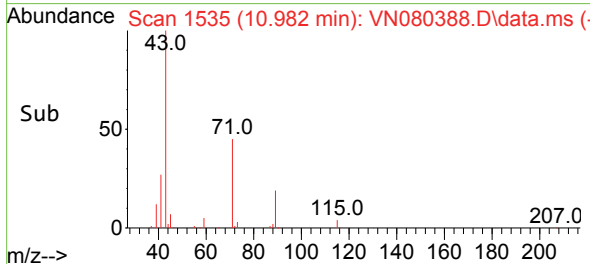


#56
Ethyl methacrylate
Concen: 0.382 ug/l
RT: 10.982 min Scan# 1535
Delta R.T. 0.106 min
Lab File: VN080388.D
Acq: 06 Dec 2023 15:58

Instrument :
MSVOA_N
ClientSampleId :

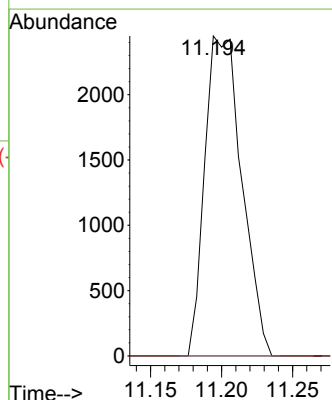
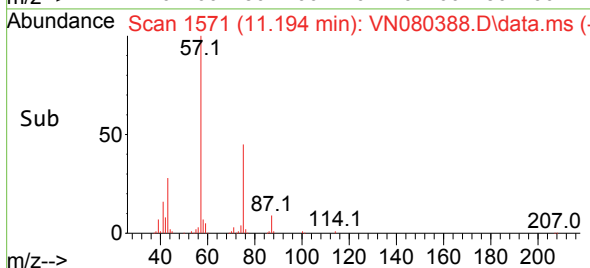
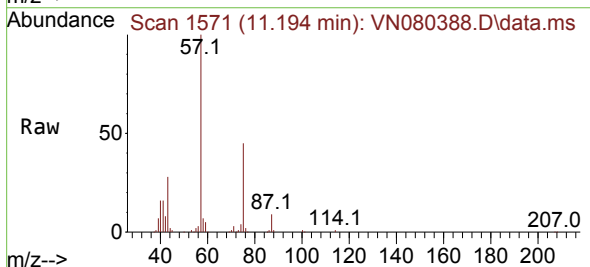


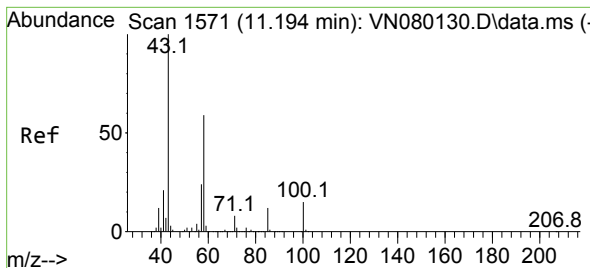
Tgt Ion: 69 Resp: 935
Ion Ratio Lower Upper
69 100
41 5434.4 39.6 59.4#
39 2446.1 28.6 43.0#



#57
1,3-Dichloropropane
Concen: 1.061 ug/l
RT: 11.194 min Scan# 1571
Delta R.T. 0.029 min
Lab File: VN080388.D
Acq: 06 Dec 2023 15:58

Tgt Ion: 76 Resp: 4436
Ion Ratio Lower Upper
76 100
78 0.0 26.1 39.1#

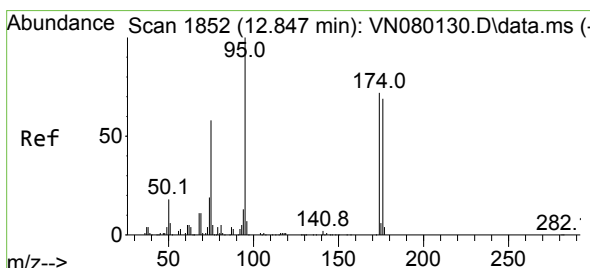
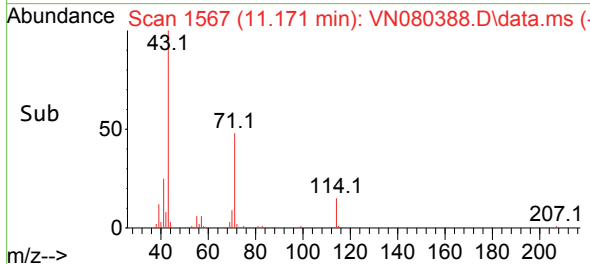
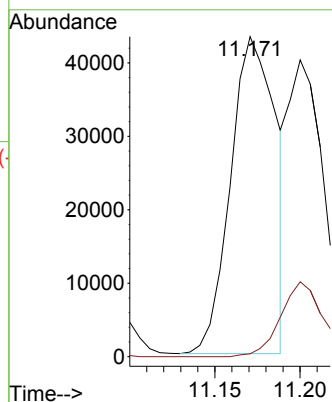
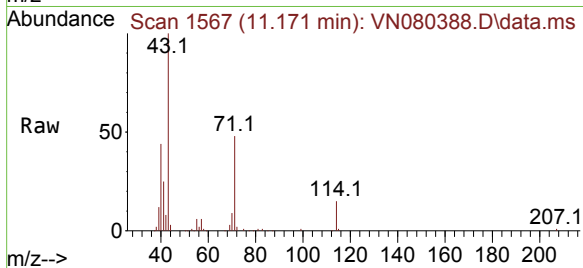




#59
2-Hexanone
Concen: 40.144 ug/l
RT: 11.171 min Scan# 111
Delta R.T. -0.024 min
Lab File: VN080388.D
Acq: 06 Dec 2023 15:58

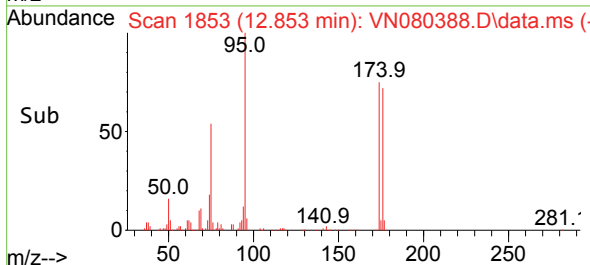
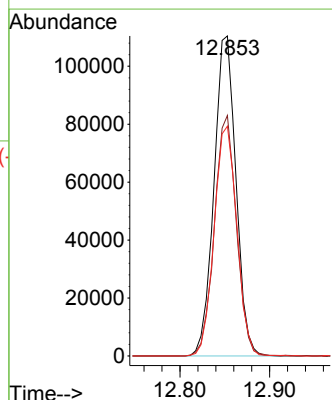
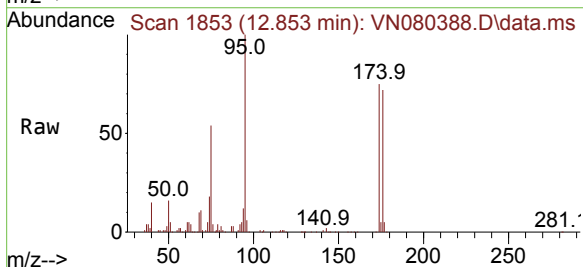
Instrument :
MSVOA_N
ClientSampleId :

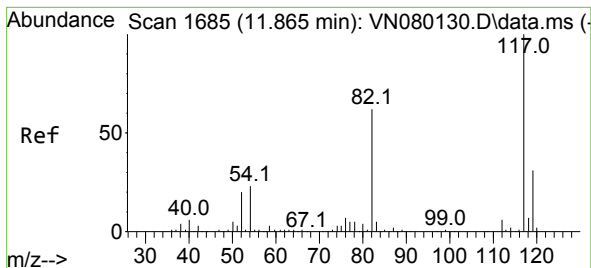
Tgt Ion: 43 Resp: 79555
Ion Ratio Lower Upper
43 100
58 0.0 31.7 95.1#



#62
4-Bromofluorobenzene
Concen: 56.514 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.006 min
Lab File: VN080388.D
Acq: 06 Dec 2023 15:58

Tgt Ion: 95 Resp: 187566
Ion Ratio Lower Upper
95 100
174 75.3 0.0 143.8
176 74.3 0.0 135.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN080388.D

Acq: 06 Dec 2023 15:58

Instrument :

MSVOA_N

ClientSampleId :

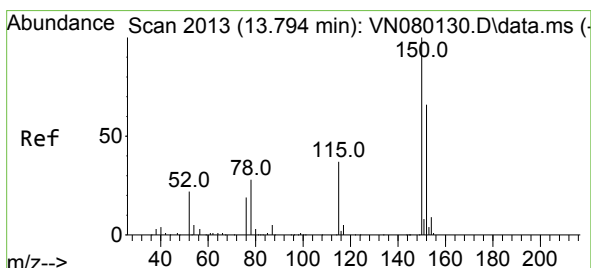
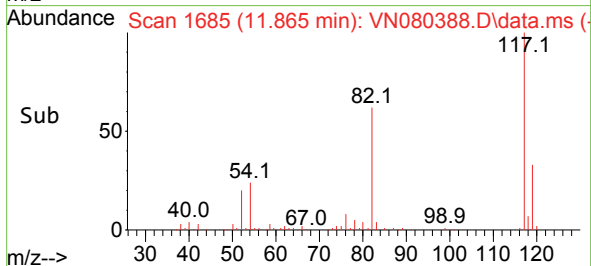
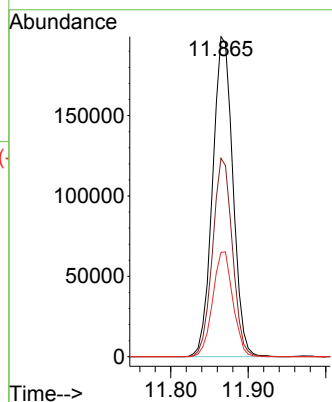
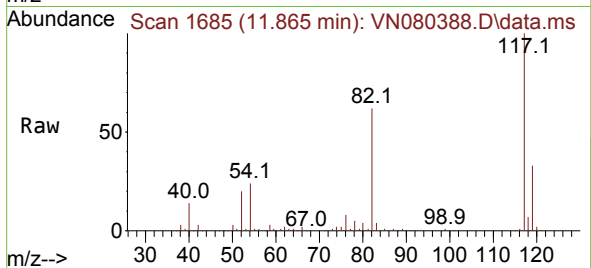
Tgt Ion:117 Resp: 362118

Ion Ratio Lower Upper

117 100

82 62.0 44.0 66.0

119 32.6 25.6 38.4



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.794 min Scan# 2013

Delta R.T. -0.000 min

Lab File: VN080388.D

Acq: 06 Dec 2023 15:58

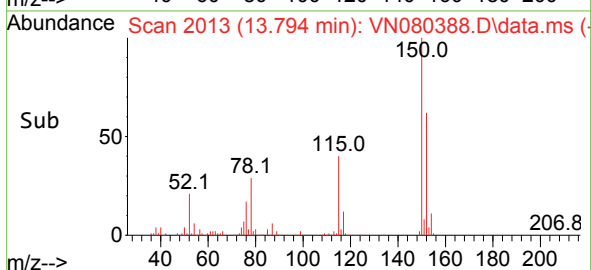
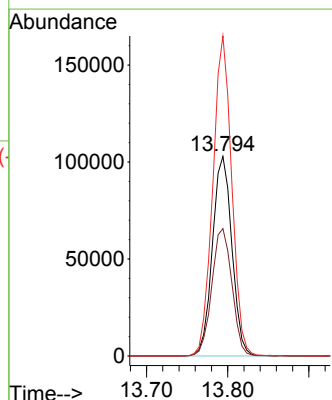
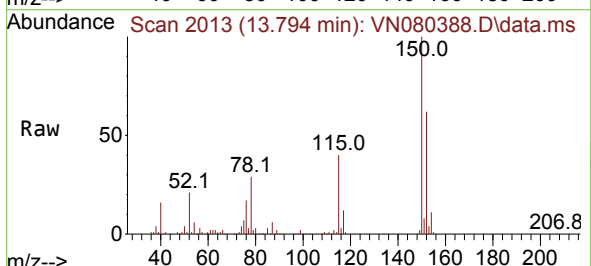
Tgt Ion:152 Resp: 171107

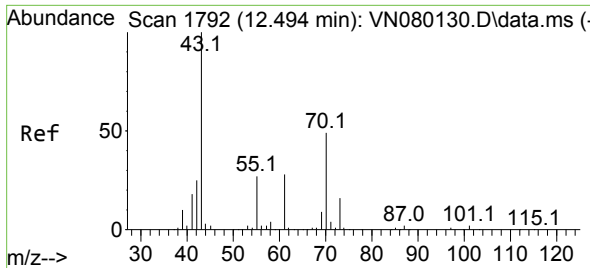
Ion Ratio Lower Upper

152 100

115 66.0 32.3 96.8

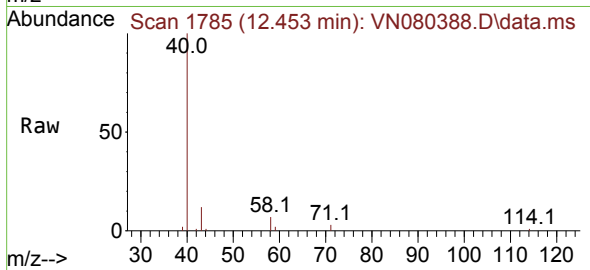
150 156.0 0.0 355.8



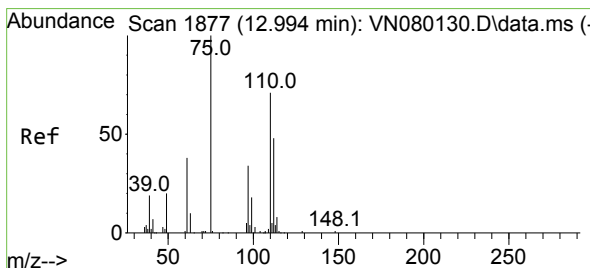
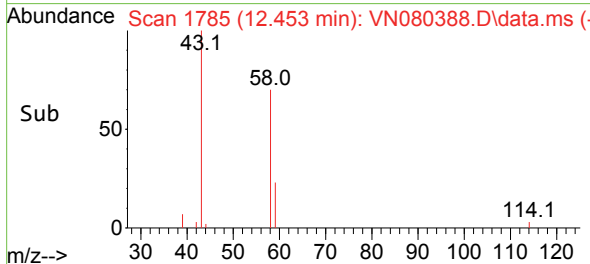
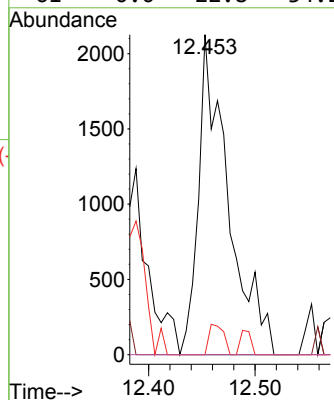


#74
N-amy1 acetate
Concen: 0.994 ug/l
RT: 12.453 min Scan# 11
Delta R.T. -0.041 min
Lab File: VN080388.D
Acq: 06 Dec 2023 15:58

Instrument :
MSVOA_N
ClientSampleId :

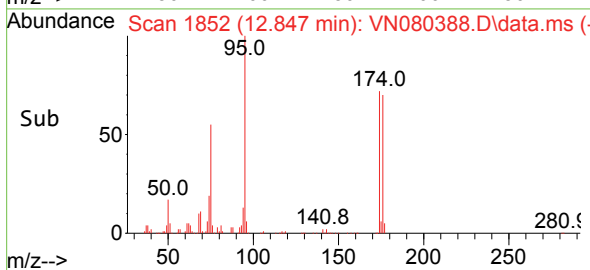
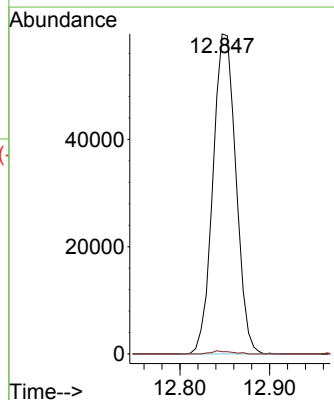
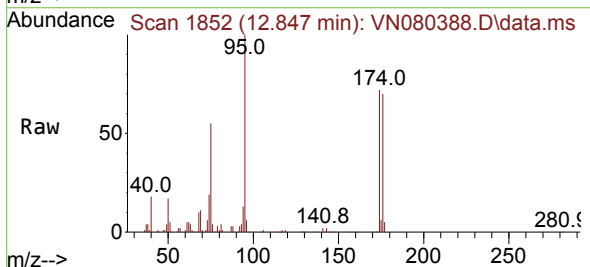


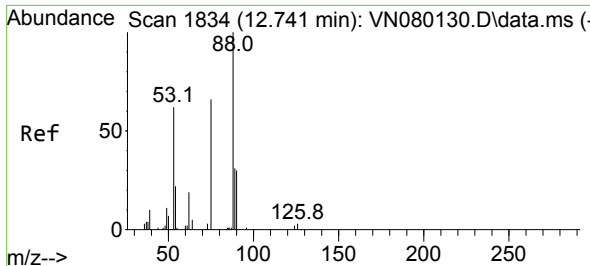
Tgt Ion:	43	Resp:	4122
Ion Ratio	100	Lower	Upper
43	100		
70	0.0	43.4	65.2#
55	4.7	21.4	32.0#
61	0.0	22.8	34.2#



#76
1,2,3-Trichloropropane
Concen: 25.319 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN080388.D
Acq: 06 Dec 2023 15:58

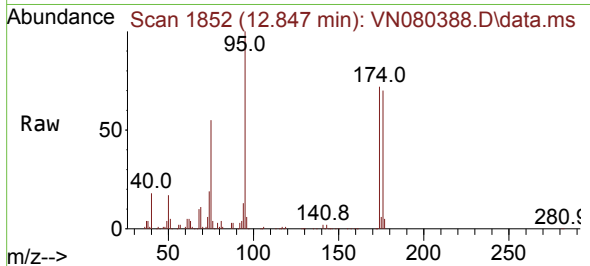
Tgt Ion:	75	Resp:	106146
Ion Ratio	100	Lower	Upper
75	100		
77	0.8	84.5	253.5#



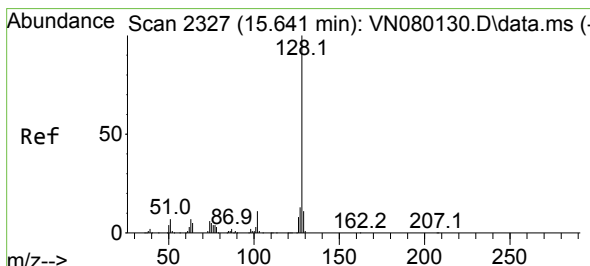
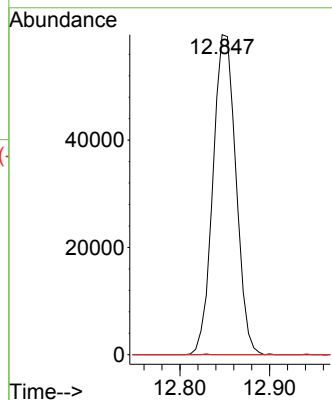
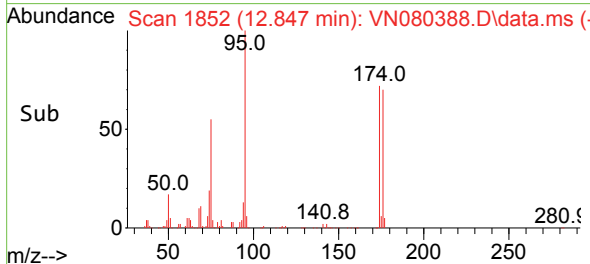


#81
trans-1,4-Dichloro-2-butene
Concen: 85.541 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.106 min
Lab File: VN080388.D
Acq: 06 Dec 2023 15:58

Instrument :
MSVOA_N
ClientSampleId :



Tgt Ion: 75 Resp: 106146
Ion Ratio Lower Upper
75 100
53 0.0 67.4 101.2#
89 0.1 38.8 58.2#



#95
Naphthalene
Concen: 89.380 ug/l
RT: 15.641 min Scan# 2327
Delta R.T. -0.000 min
Lab File: VN080388.D
Acq: 06 Dec 2023 15:58

Tgt Ion:128 Resp: 871244
Ion Ratio Lower Upper
128 100
127 13.2 10.0 15.0
129 11.0 8.7 13.1

