

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121923\
 Data File : VN080533.D
 Acq On : 19 Dec 2023 20:18
 Operator : JC\MD
 Sample : PB157851TB
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Dec 20 04:08:20 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N121223W.M
 Quant Title : SW846 8260
 QLast Update : Wed Dec 13 01:57:14 2023
 Response via : Initial Calibration

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

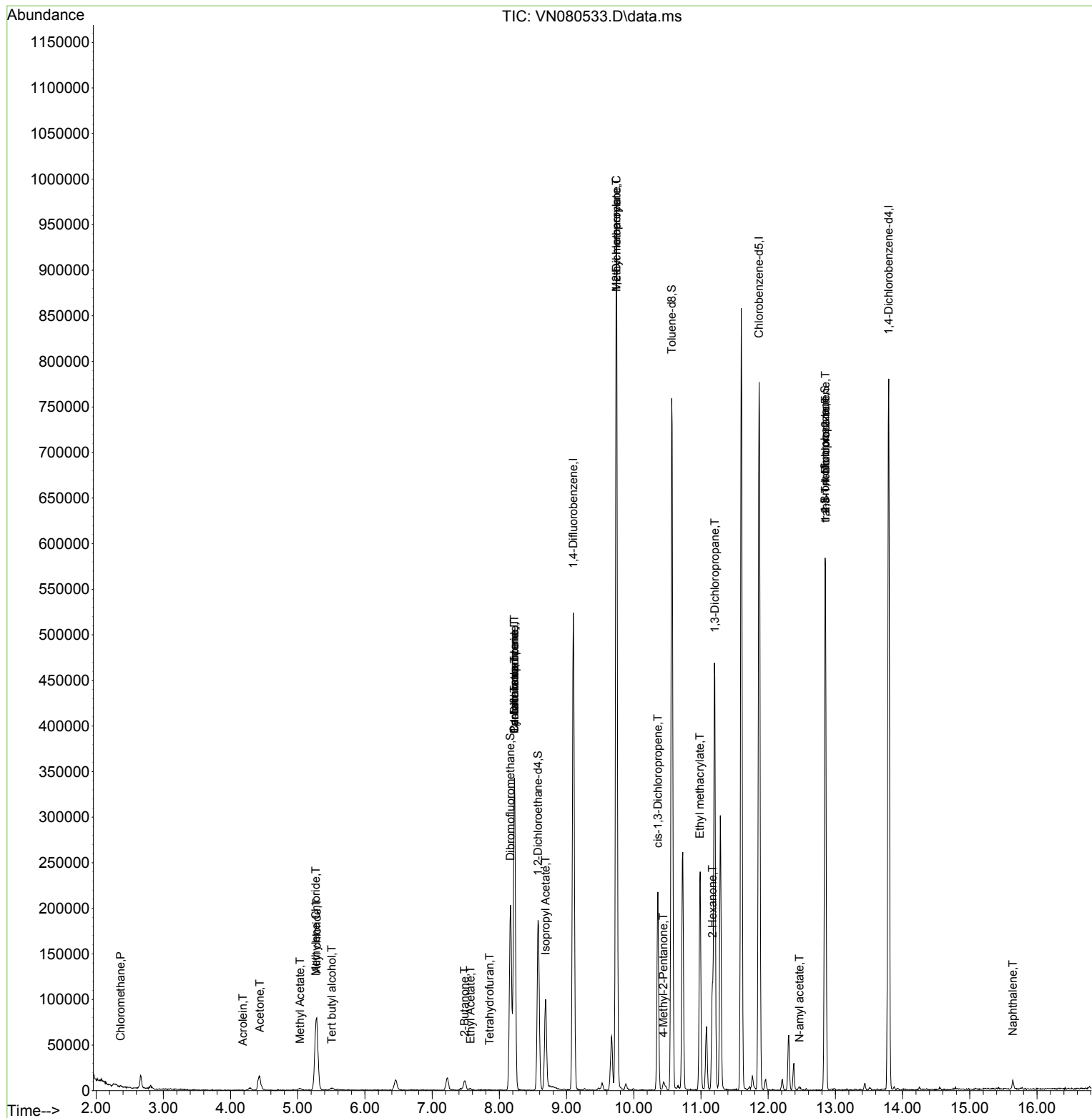
Internal Standards						
1) Pentafluorobenzene	8.224	168	241258	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	447599	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	459831	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	213020	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	165706	53.776	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 107.560%	
35) Dibromofluoromethane	8.165	113	145256	51.183	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 102.360%	
50) Toluene-d8	10.565	98	528715	49.954	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 99.900%	
62) 4-Bromofluorobenzene	12.847	95	209811	52.204	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 104.400%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.365	50	2731	0.446	ug/l #	76
11) Tert butyl alcohol	5.506	59	3937	10.849	ug/l #	77
13) Acrolein	4.183	56	275	0.692	ug/l #	46
14) Allyl chloride	5.283	41	1161	0.362	ug/l #	19
16) Acetone	4.436	43	30713	56.213	ug/l	91
18) Methyl Acetate	5.036	43	3798	1.080	ug/l #	77
20) Methylene Chloride	5.271	84	69741	23.851	ug/l	94
25) 2-Butanone	7.483	43	17301	16.437	ug/l	88
29) Tetrahydrofuran	7.853	42	394	0.523	ug/l #	72
31) Cyclohexane	8.224	56	5153	1.230	ug/l #	1
36) 1,1-Dichloropropene	8.224	75	19581	4.220	ug/l #	42
37) Ethyl Acetate	7.571	43	1798	0.619	ug/l #	67
38) Carbon Tetrachloride	8.224	117	26224	4.730	ug/l #	15
43) Isopropyl Acetate	8.688	43	114028	21.825	ug/l #	86
45) 1,2-Dichloropropane	9.741	63	1299	0.413	ug/l #	45
48) Methyl methacrylate	9.741	41	85827	27.528	ug/l #	28
51) 4-Methyl-2-Pentanone	10.441	43	5736	1.993	ug/l	99
54) cis-1,3-Dichloropropene	10.359	75	42310	7.553	ug/l #	63
56) Ethyl methacrylate	10.982	69	1132	0.336	ug/l #	1
57) 1,3-Dichloropropane	11.206	76	5233	0.980	ug/l #	42
59) 2-Hexanone	11.171	43	90309	42.514	ug/l #	19
74) N-amyl acetate	12.465	43	3545	0.709	ug/l #	38
76) 1,2,3-Trichloropropane	12.853	75	115555	27.192	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	115555	71.394	ug/l #	15
95) Naphthalene	15.641	128	9164	0.772	ug/l	97

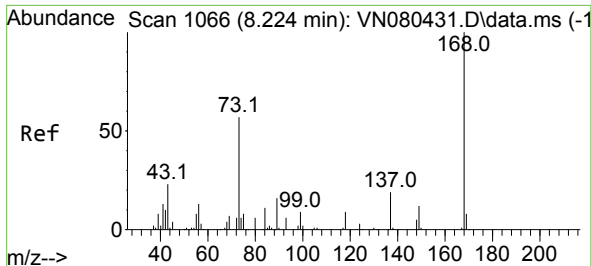
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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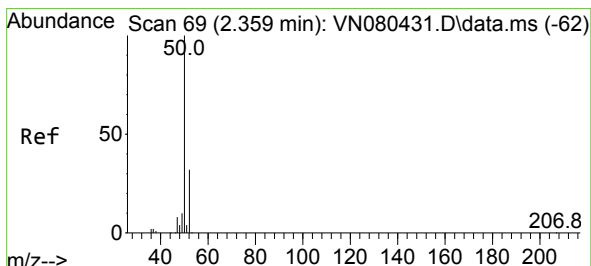
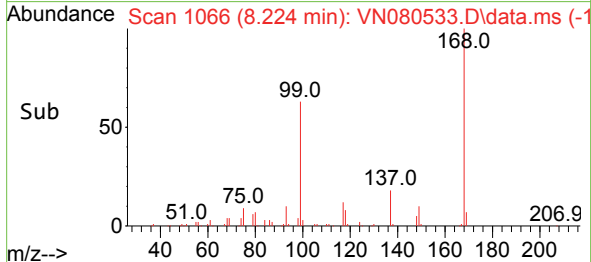
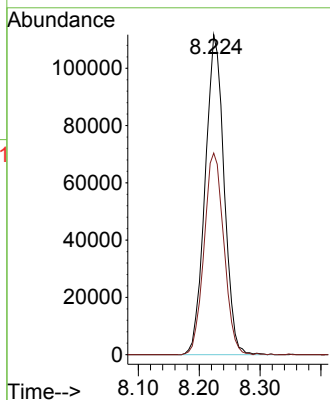
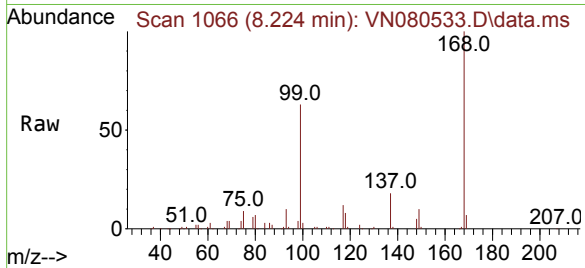




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN080533.D
Acq: 19 Dec 2023 20:18

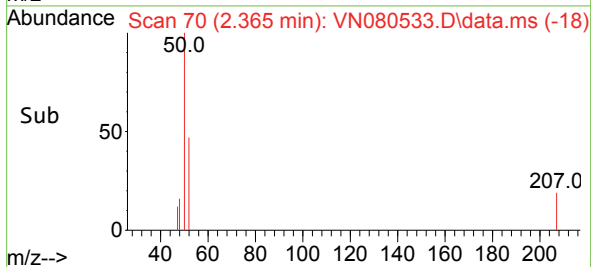
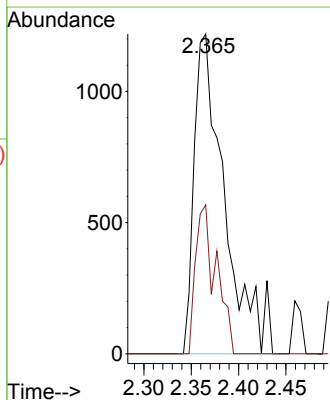
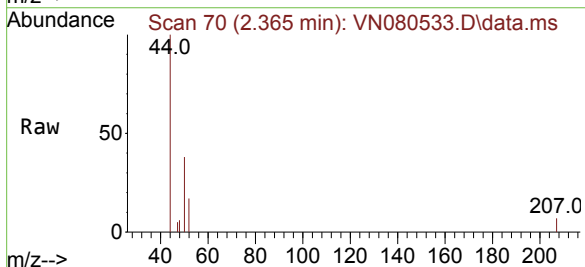
Instrument :
MSVOA_N
ClientSampleId :

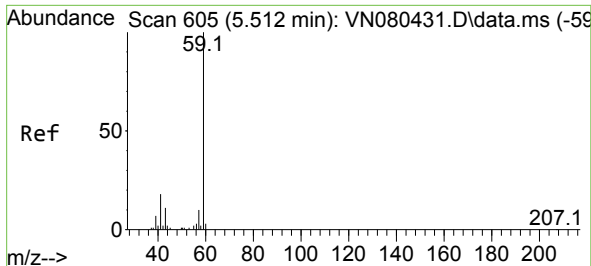
Tgt Ion:168 Resp: 241258
Ion Ratio Lower Upper
168 100
99 63.0 53.0 79.6



#3
Chloromethane
Concen: 0.446 ug/l
RT: 2.365 min Scan# 70
Delta R.T. 0.006 min
Lab File: VN080533.D
Acq: 19 Dec 2023 20:18

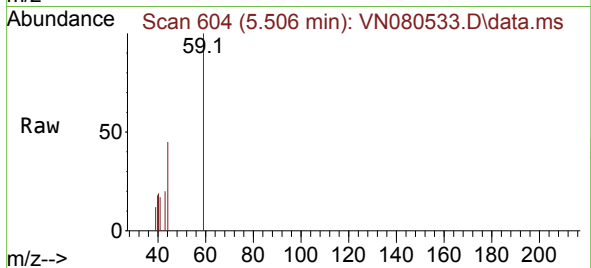
Tgt Ion: 50 Resp: 2731
Ion Ratio Lower Upper
50 100
52 46.6 26.5 39.7#



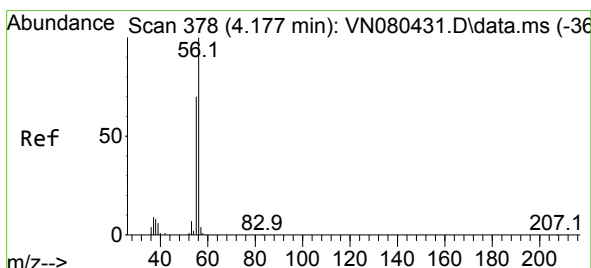
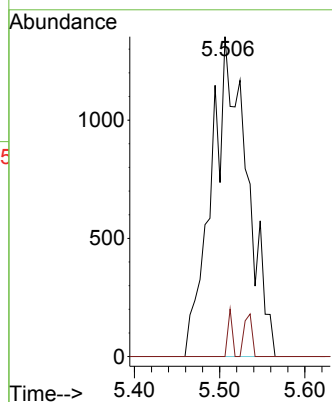
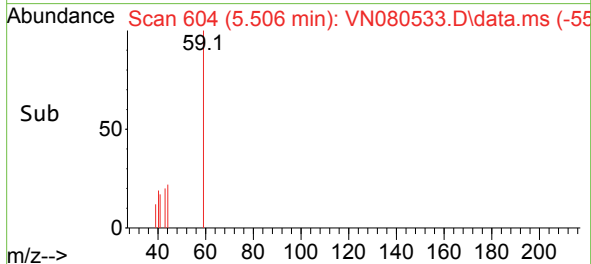


#11
Tert butyl alcohol
Concen: 10.849 ug/l
RT: 5.506 min Scan# 605
Delta R.T. -0.006 min
Lab File: VN080533.D
Acq: 19 Dec 2023 20:18

Instrument :
MSVOA_N
ClientSampleId :

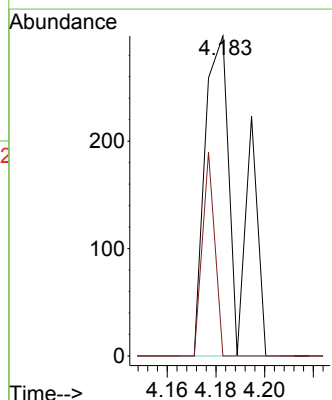
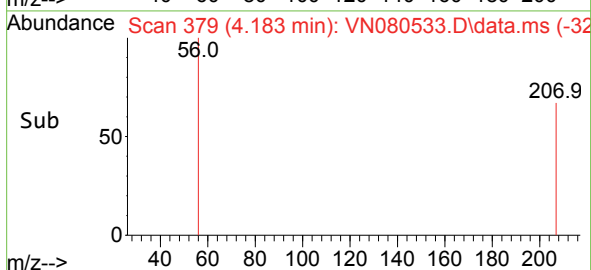
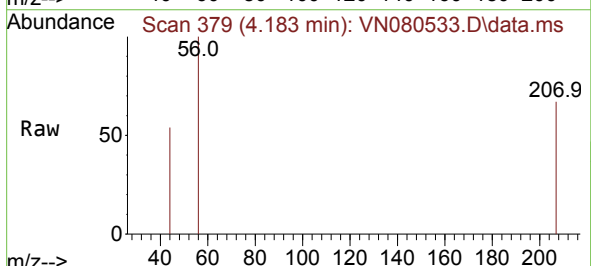


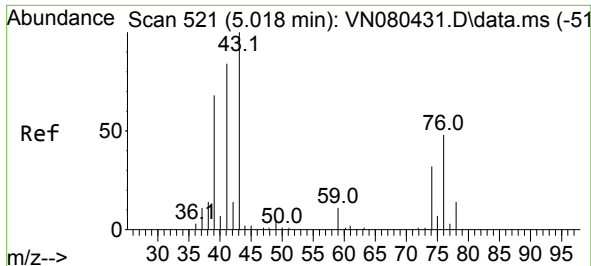
Tgt Ion: 59 Resp: 3937
Ion Ratio Lower Upper
59 100
57 1.8 8.2 12.4#



#13
Acrolein
Concen: 0.692 ug/l
RT: 4.183 min Scan# 379
Delta R.T. 0.006 min
Lab File: VN080533.D
Acq: 19 Dec 2023 20:18

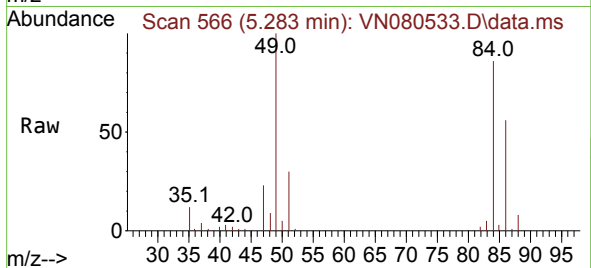
Tgt Ion: 56 Resp: 275
Ion Ratio Lower Upper
56 100
55 24.4 54.5 81.7#



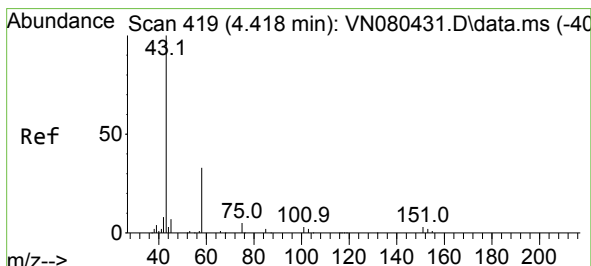
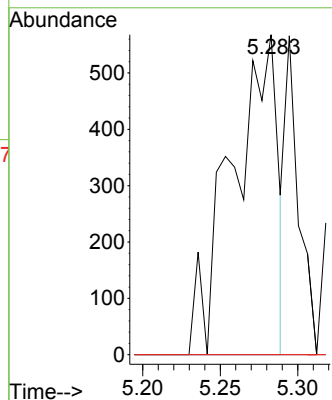
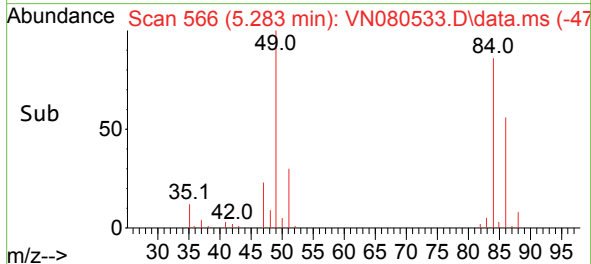


#14
 Allyl chloride
 Concen: 0.362 ug/l
 RT: 5.283 min Scan# 51
 Delta R.T. 0.265 min
 Lab File: VN080533.D
 Acq: 19 Dec 2023 20:18

Instrument :
 MSVOA_N
 ClientSampleId :

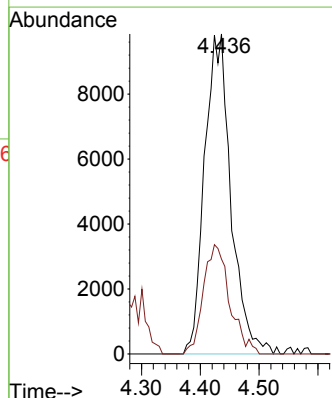
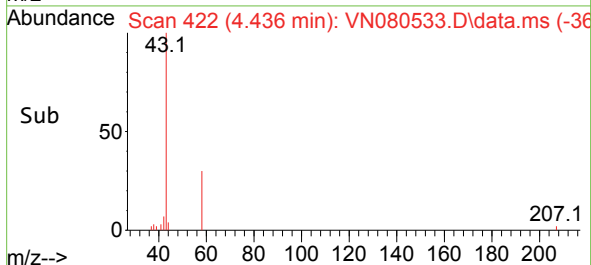
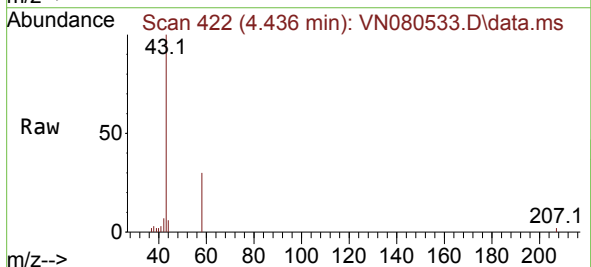


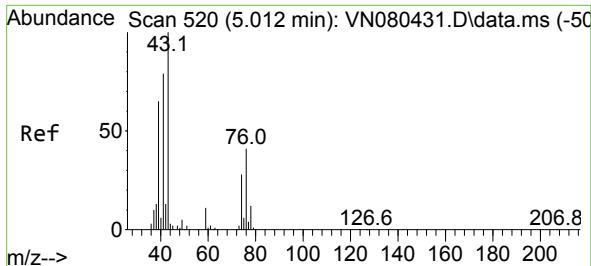
Tgt Ion: 41 Resp: 1161
 Ion Ratio Lower Upper
 41 100
 39 0.0 58.8 88.2#
 76 0.0 39.1 58.7#



#16
 Acetone
 Concen: 56.213 ug/l
 RT: 4.436 min Scan# 422
 Delta R.T. 0.018 min
 Lab File: VN080533.D
 Acq: 19 Dec 2023 20:18

Tgt Ion: 43 Resp: 30713
 Ion Ratio Lower Upper
 43 100
 58 29.7 28.0 42.0





#18

Methyl Acetate

Concen: 1.080 ug/l

RT: 5.036 min Scan# 51

Delta R.T. 0.024 min

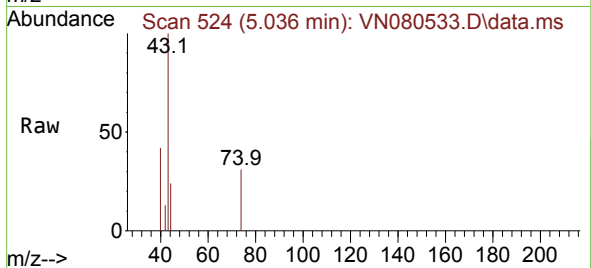
Lab File: VN080533.D

Acq: 19 Dec 2023 20:18

Instrument :

MSVOA_N

ClientSampleId :

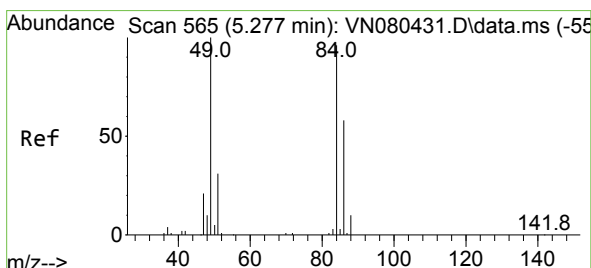
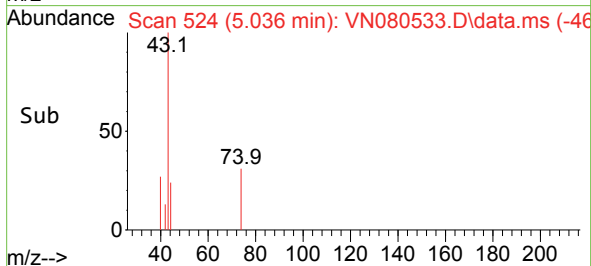
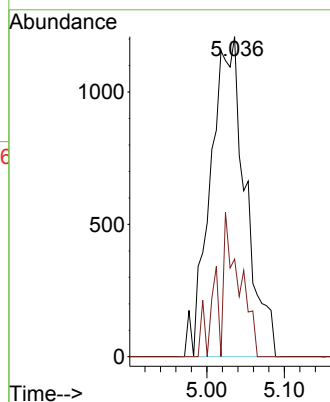


Tgt Ion: 43 Resp: 3798

Ion Ratio Lower Upper

43 100

74 19.9 26.2 39.4#



#20

Methylene Chloride

Concen: 23.851 ug/l

RT: 5.271 min Scan# 564

Delta R.T. -0.006 min

Lab File: VN080533.D

Acq: 19 Dec 2023 20:18

Tgt Ion: 84 Resp: 69741

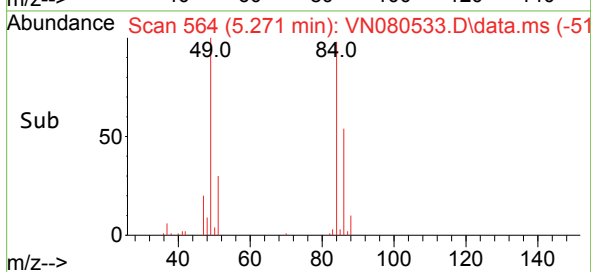
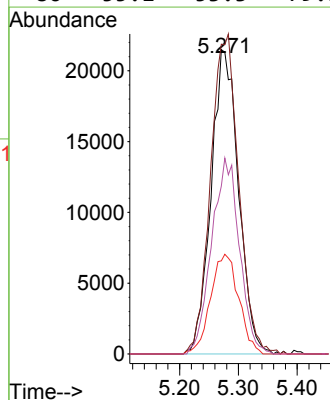
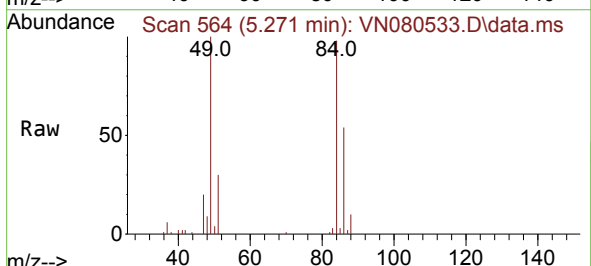
Ion Ratio Lower Upper

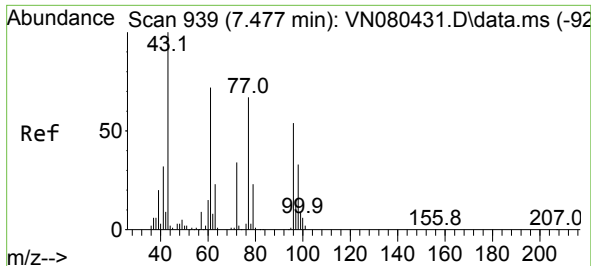
84 100

49 101.7 79.7 119.5

51 30.6 25.2 37.8

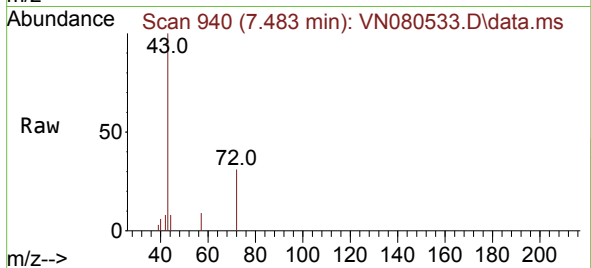
86 55.1 53.3 79.9



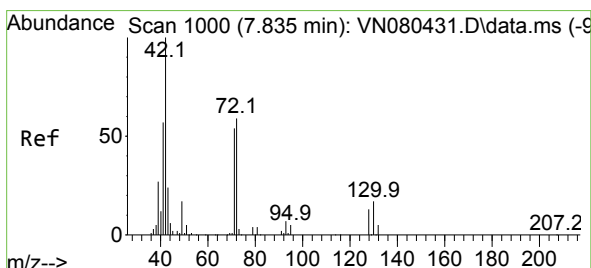
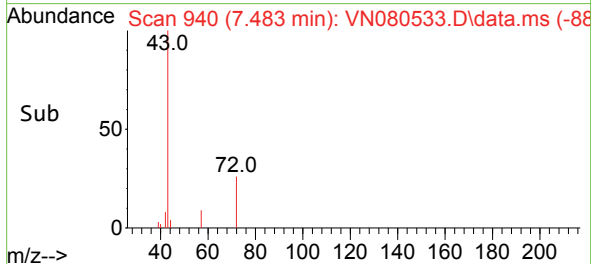
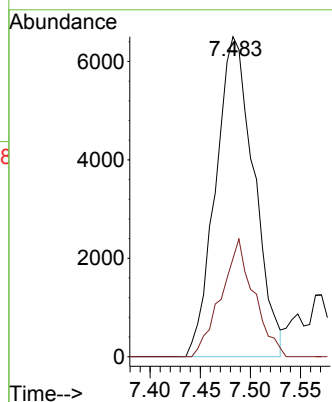


#25
2-Butanone
Concen: 16.437 ug/l
RT: 7.483 min Scan# 94
Delta R.T. 0.006 min
Lab File: VN080533.D
Acq: 19 Dec 2023 20:18

Instrument :
MSVOA_N
ClientSampleId :

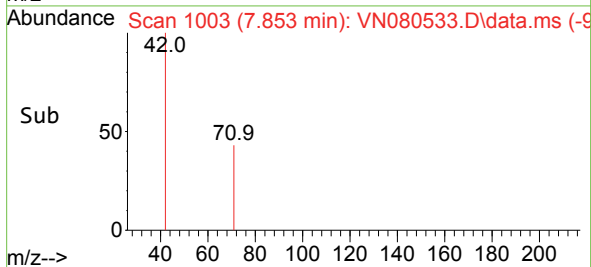
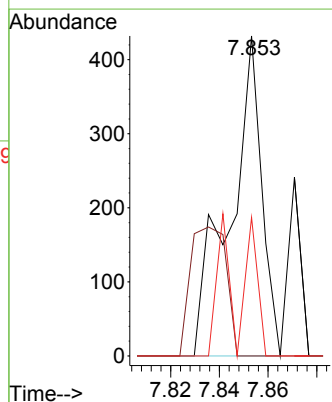
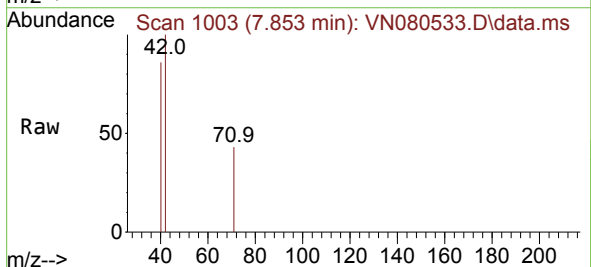


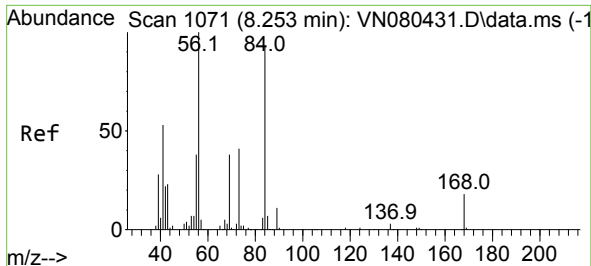
Tgt Ion: 43 Resp: 17301
Ion Ratio Lower Upper
43 100
72 30.7 30.2 45.2



#29
Tetrahydrofuran
Concen: 0.523 ug/l
RT: 7.853 min Scan# 1003
Delta R.T. 0.018 min
Lab File: VN080533.D
Acq: 19 Dec 2023 20:18

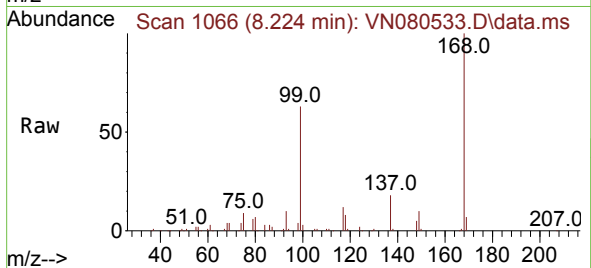
Tgt Ion: 42 Resp: 394
Ion Ratio Lower Upper
42 100
72 44.9 49.8 74.6#
71 34.0 47.4 71.2#



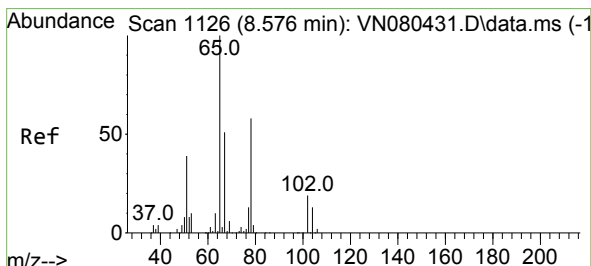
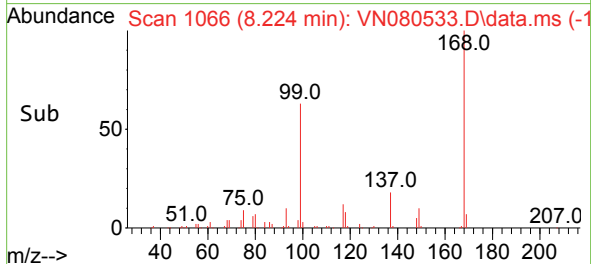
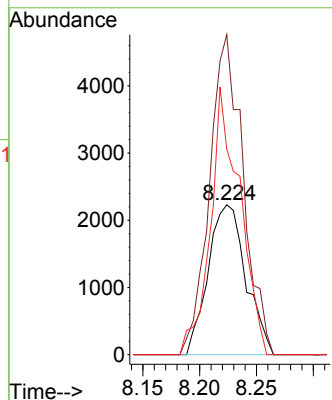


#31
Cyclohexane
Concen: 1.230 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.029 min
Lab File: VN080533.D
Acq: 19 Dec 2023 20:18

Instrument :
MSVOA_N
ClientSampleId :

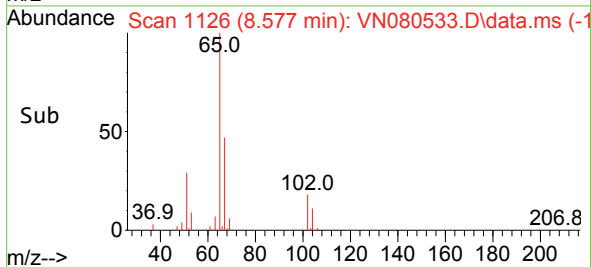
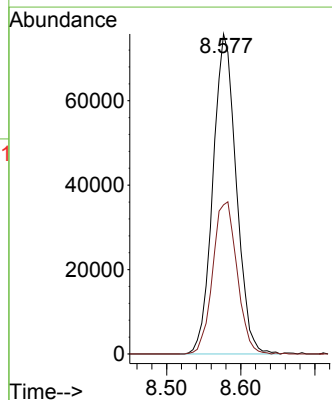
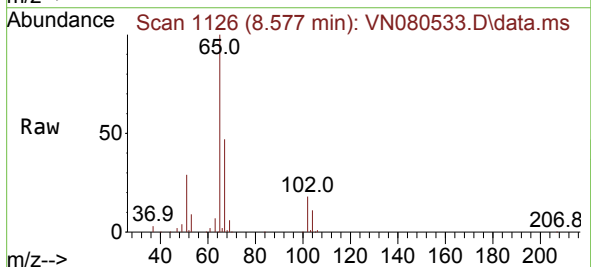


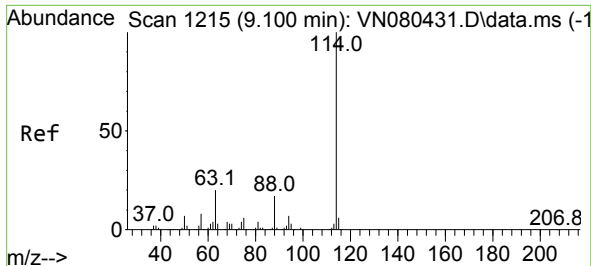
Tgt Ion: 56 Resp: 5153
Ion Ratio Lower Upper
56 100
69 213.4 26.8 40.2#
84 137.1 81.8 122.6#



#33
1,2-Dichloroethane-d4
Concen: 53.776 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. 0.000 min
Lab File: VN080533.D
Acq: 19 Dec 2023 20:18

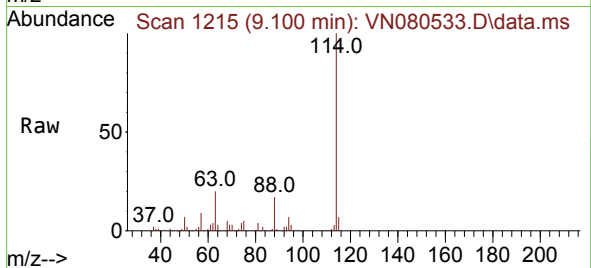
Tgt Ion: 65 Resp: 165706
Ion Ratio Lower Upper
65 100
67 49.5 0.0 106.6



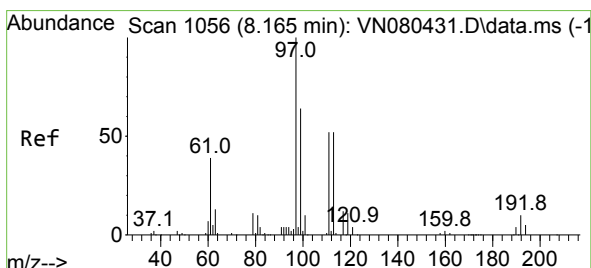
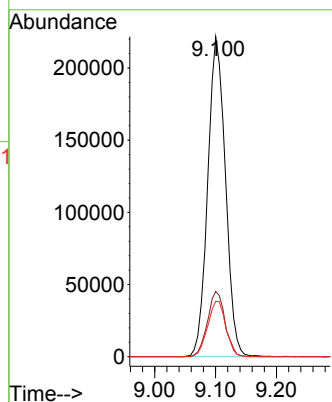
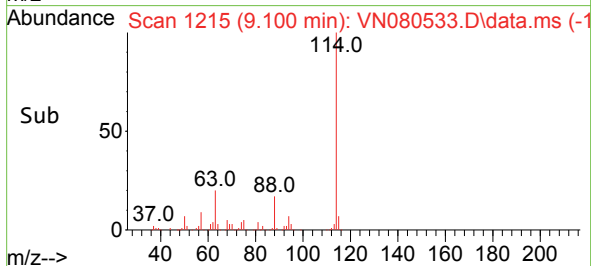


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 114
Delta R.T. 0.000 min
Lab File: VN080533.D
Acq: 19 Dec 2023 20:18

Instrument :
MSVOA_N
ClientSampleId :

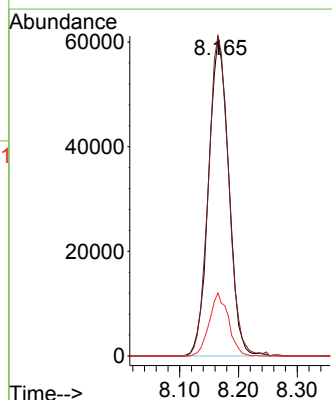
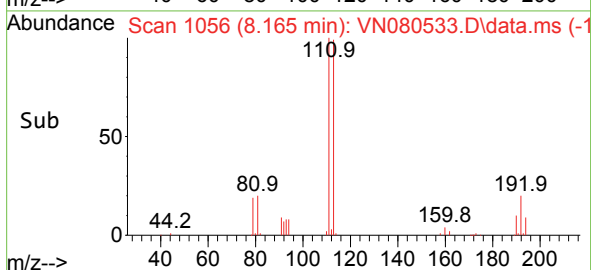
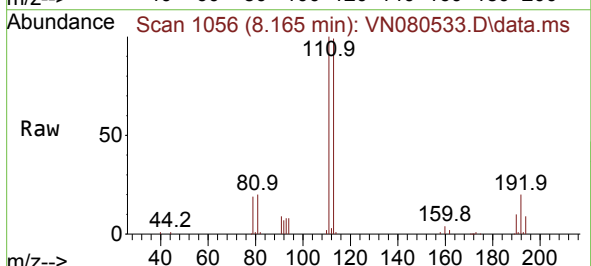


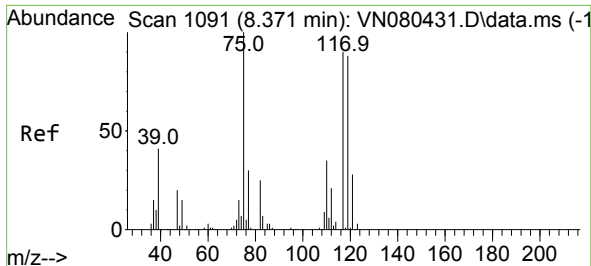
Tgt Ion:114 Resp: 447599
Ion Ratio Lower Upper
114 100
63 20.4 0.0 36.4
88 17.3 0.0 30.6



#35
Dibromofluoromethane
Concen: 51.183 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VN080533.D
Acq: 19 Dec 2023 20:18

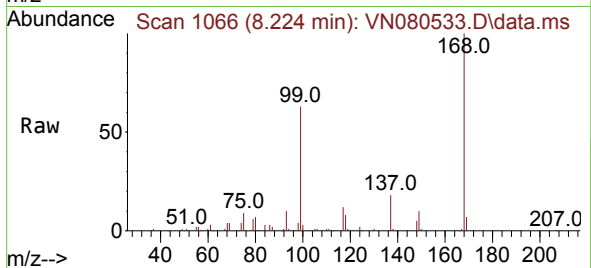
Tgt Ion:113 Resp: 145256
Ion Ratio Lower Upper
113 100
111 101.4 82.6 123.8
192 18.8 12.7 19.1



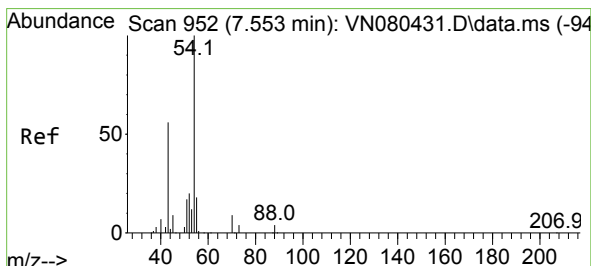
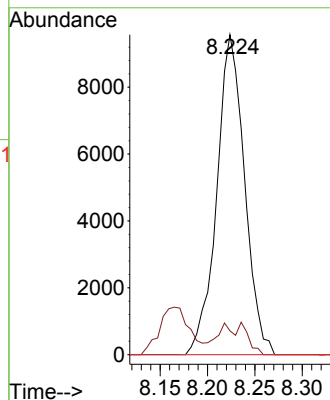
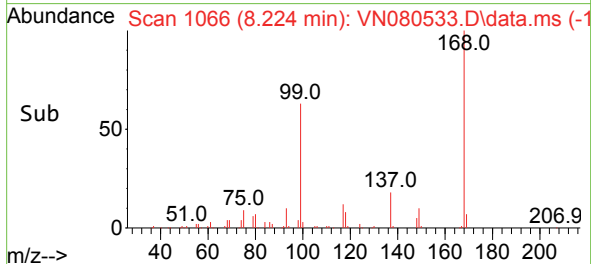


#36
1,1-Dichloropropene
Concen: 4.220 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.147 min
Lab File: VN080533.D
Acq: 19 Dec 2023 20:18

Instrument :
MSVOA_N
ClientSampleId :

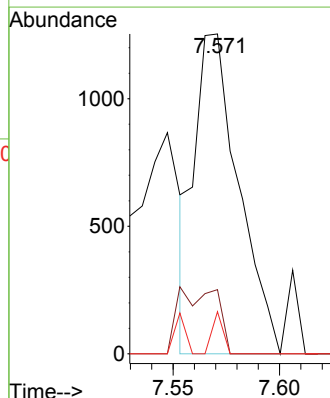
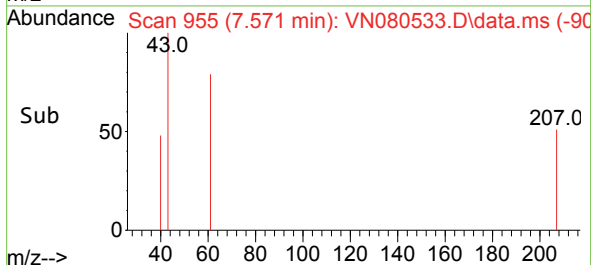
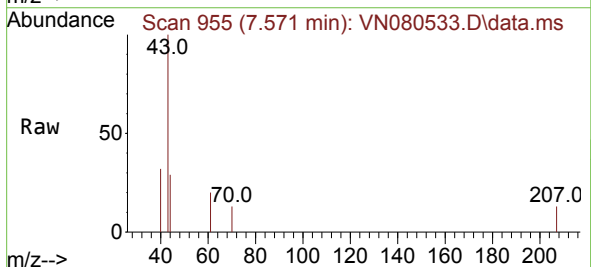


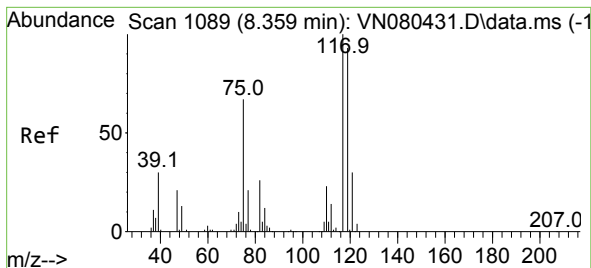
Tgt Ion: 75 Resp: 19581
Ion Ratio Lower Upper
75 100
110 2.8 19.1 57.3#
77 0.0 25.0 37.4#



#37
Ethyl Acetate
Concen: 0.619 ug/l
RT: 7.571 min Scan# 955
Delta R.T. 0.018 min
Lab File: VN080533.D
Acq: 19 Dec 2023 20:18

Tgt Ion: 43 Resp: 1798
Ion Ratio Lower Upper
43 100
61 0.0 13.2 19.8#
70 3.2 11.3 16.9#





#38

Carbon Tetrachloride

Concen: 4.730 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.135 min

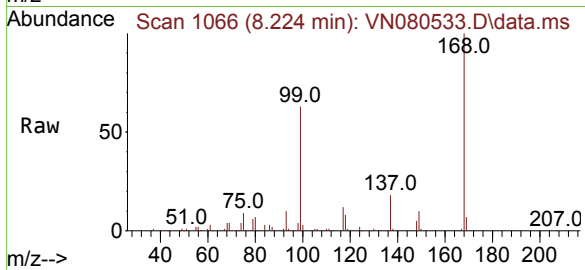
Lab File: VN080533.D

Acq: 19 Dec 2023 20:18

Instrument :

MSVOA_N

ClientSampleId :



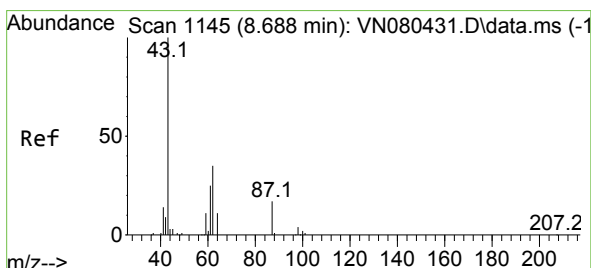
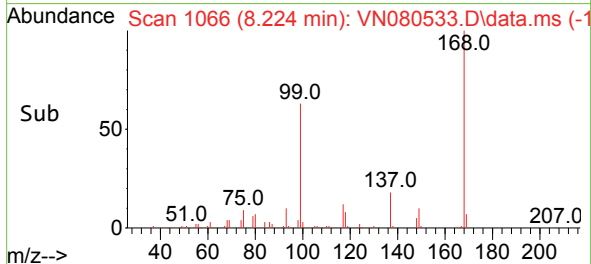
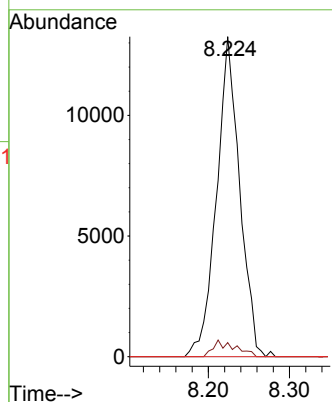
Tgt Ion:117 Resp: 26224

Ion Ratio Lower Upper

117 100

119 4.4 77.3 115.9#

121 0.0 23.3 34.9#



#43

Isopropyl Acetate

Concen: 21.825 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. 0.000 min

Lab File: VN080533.D

Acq: 19 Dec 2023 20:18

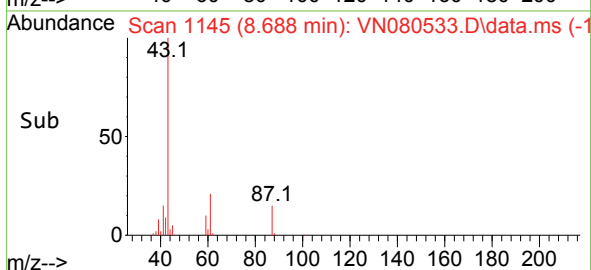
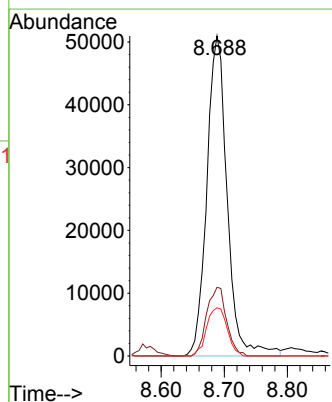
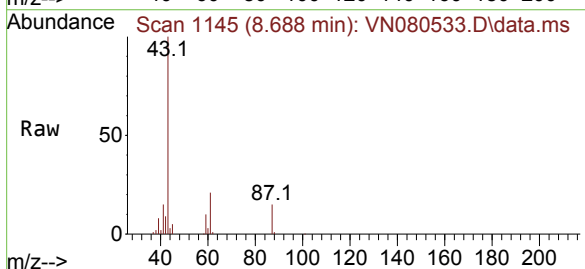
Tgt Ion: 43 Resp: 114028

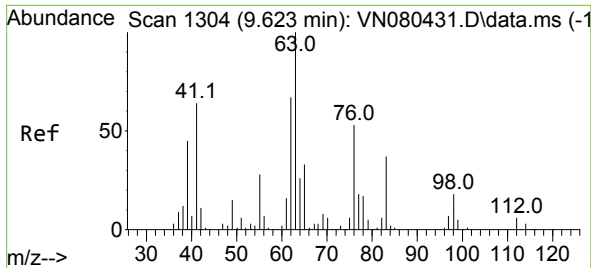
Ion Ratio Lower Upper

43 100

61 20.9 24.7 37.1#

87 15.2 14.6 21.8

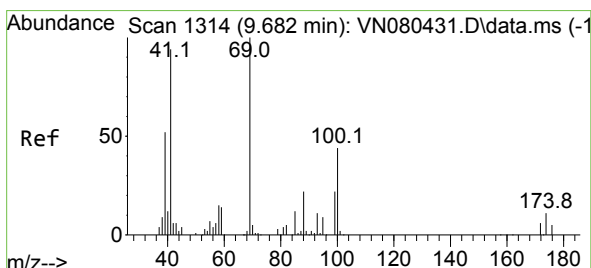
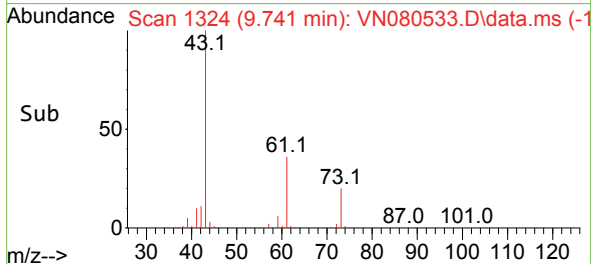
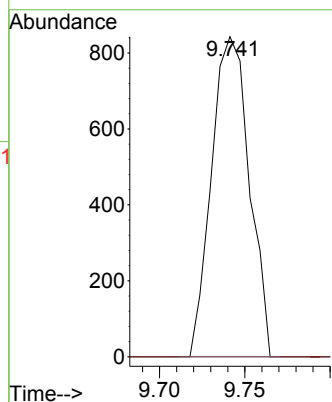
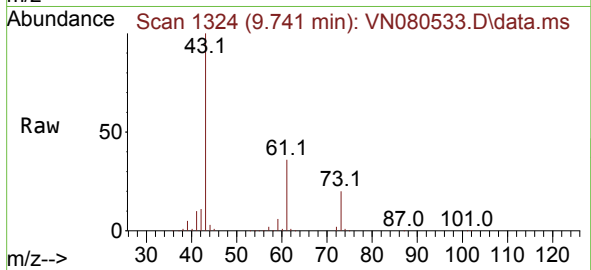




#45
1,2-Dichloropropane
Concen: 0.413 ug/l
RT: 9.741 min Scan# 11
Delta R.T. 0.118 min
Lab File: VN080533.D
Acq: 19 Dec 2023 20:18

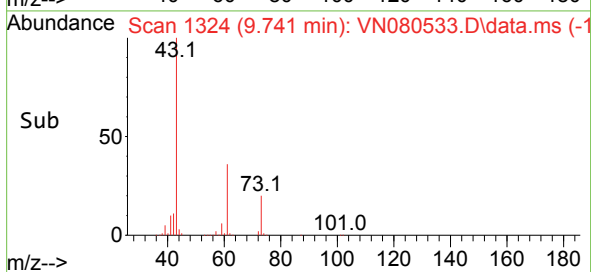
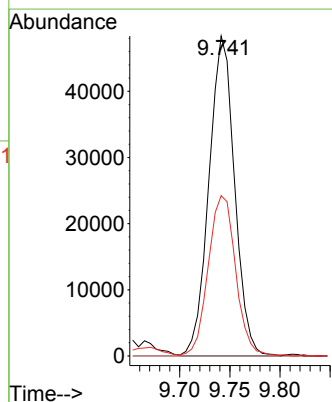
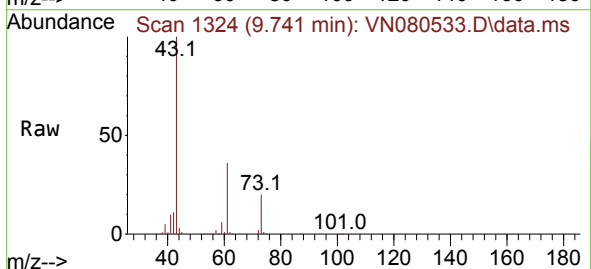
Instrument :
MSVOA_N
ClientSampleId :

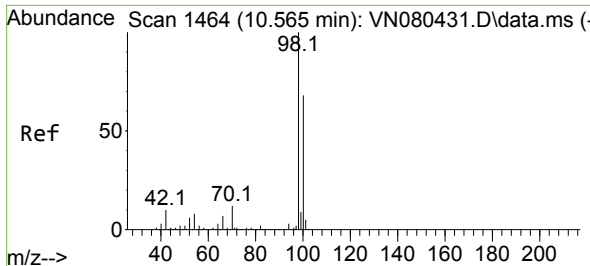
Tgt Ion: 63 Resp: 1299
Ion Ratio Lower Upper
63 100
65 0.0 23.9 35.9#



#48
Methyl methacrylate
Concen: 27.528 ug/l
RT: 9.741 min Scan# 1324
Delta R.T. 0.059 min
Lab File: VN080533.D
Acq: 19 Dec 2023 20:18

Tgt Ion: 41 Resp: 85827
Ion Ratio Lower Upper
41 100
69 0.0 90.4 135.6#
39 53.6 54.6 81.8#

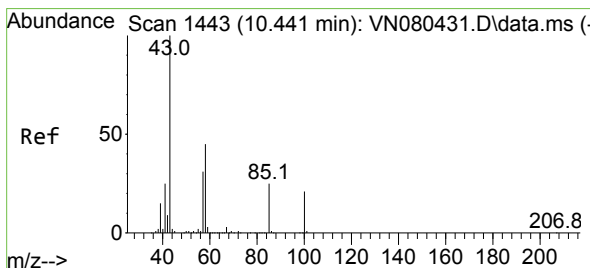
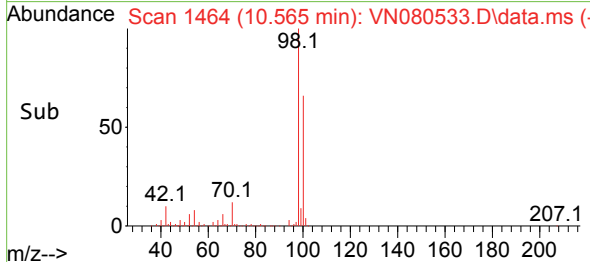
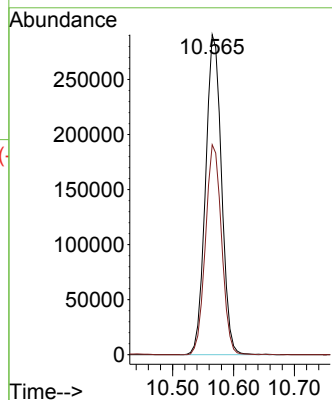
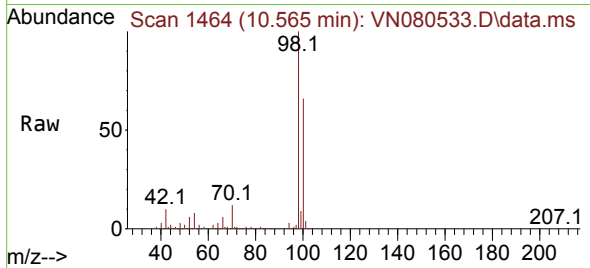




#50
Toluene-d8
Concen: 49.954 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN080533.D
Acq: 19 Dec 2023 20:18

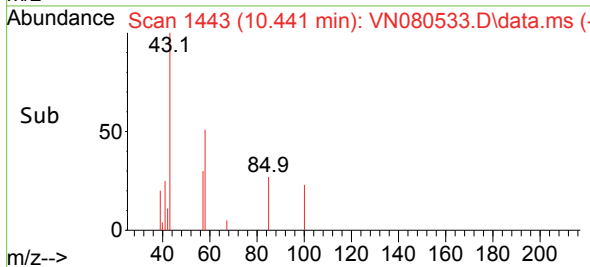
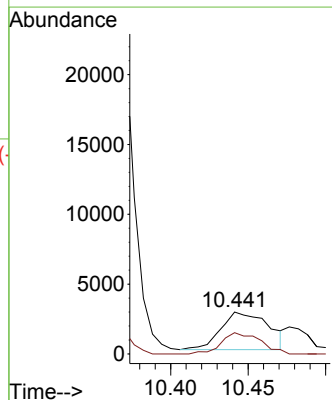
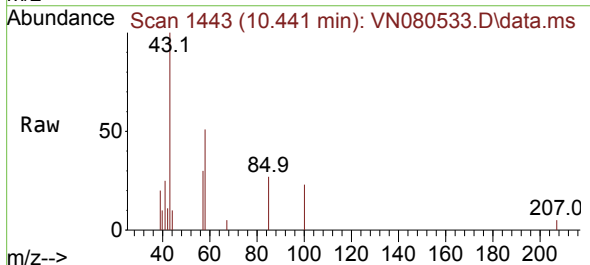
Instrument :
MSVOA_N
ClientSampleId :

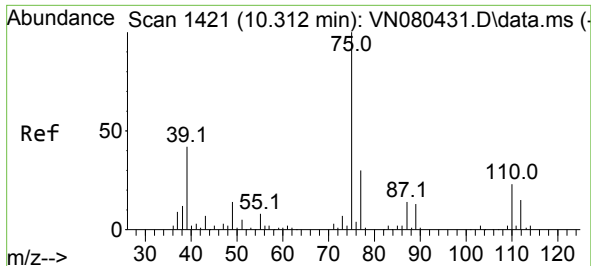
Tgt Ion: 98 Resp: 528715
Ion Ratio Lower Upper
98 100
100 66.1 52.0 78.0



#51
4-Methyl-2-Pentanone
Concen: 1.993 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. 0.000 min
Lab File: VN080533.D
Acq: 19 Dec 2023 20:18

Tgt Ion: 43 Resp: 5736
Ion Ratio Lower Upper
43 100
58 46.5 36.6 54.8

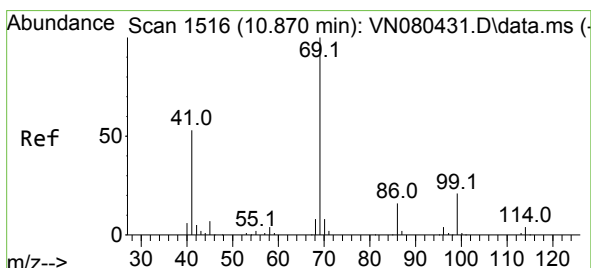
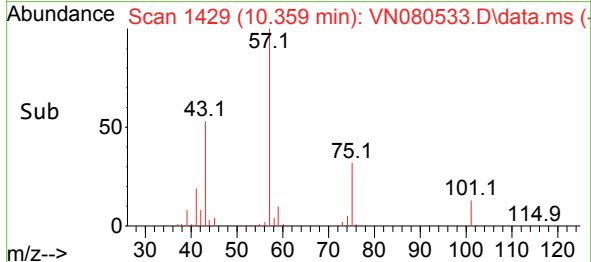
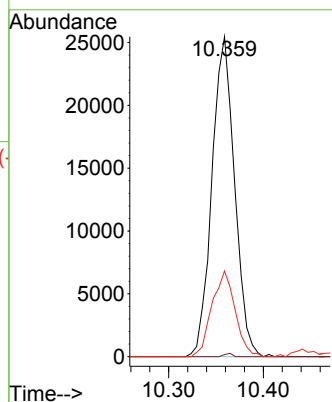
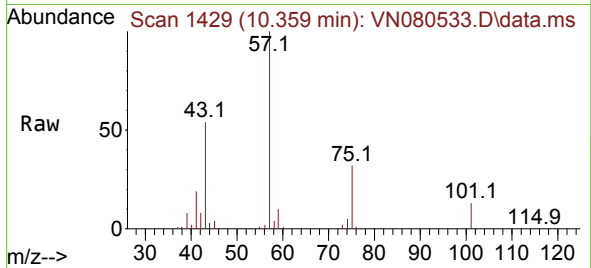




#54
 cis-1,3-Dichloropropene
 Concen: 7.553 ug/l
 RT: 10.359 min Scan# 1429
 Delta R.T. 0.047 min
 Lab File: VN080533.D
 Acq: 19 Dec 2023 20:18

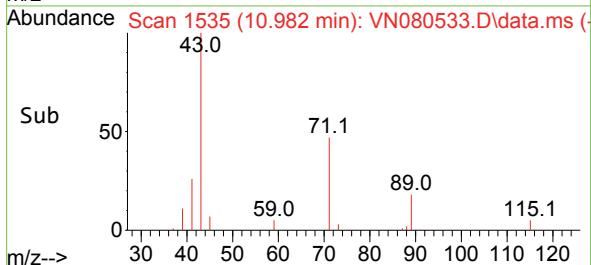
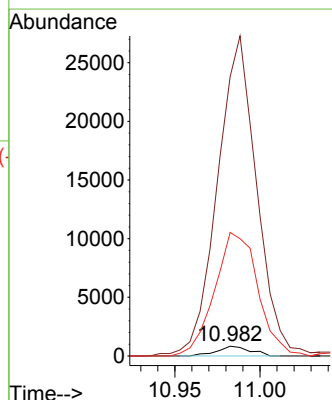
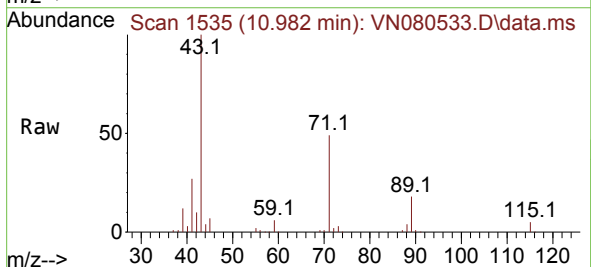
Instrument :
 MSVOA_N
 ClientSampleId :

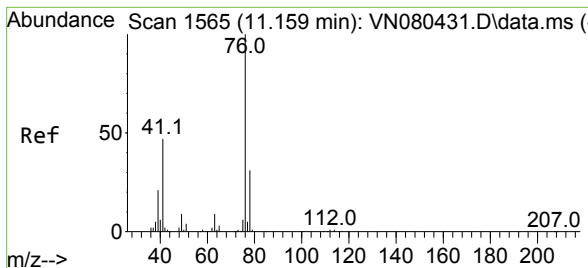
Tgt Ion: 75 Resp: 42310
 Ion Ratio Lower Upper
 75 100
 77 0.7 26.1 39.1#
 39 26.8 31.6 47.4#



#56
 Ethyl methacrylate
 Concen: 0.336 ug/l
 RT: 10.982 min Scan# 1535
 Delta R.T. 0.112 min
 Lab File: VN080533.D
 Acq: 19 Dec 2023 20:18

Tgt Ion: 69 Resp: 1132
 Ion Ratio Lower Upper
 69 100
 41 3882.1 39.6 59.4#
 39 1646.8 28.6 43.0#

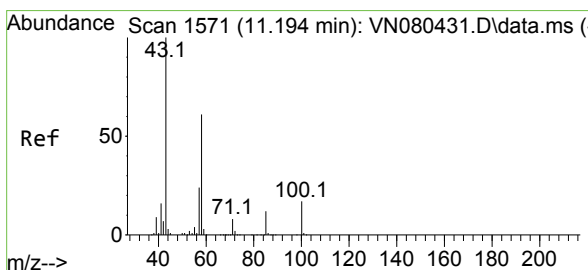
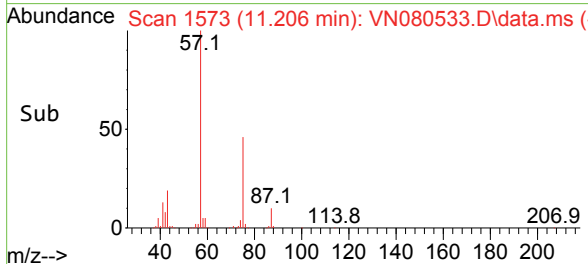
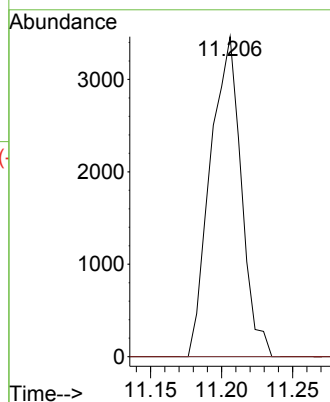
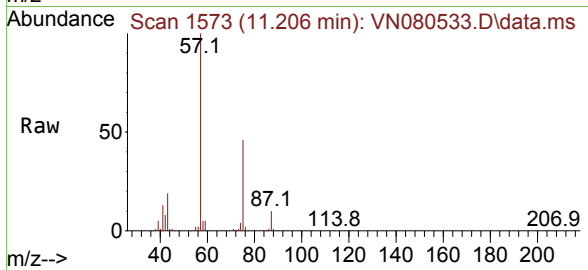




#57
1,3-Dichloropropane
Concen: 0.980 ug/l
RT: 11.206 min Scan# 1567
Delta R.T. 0.047 min
Lab File: VN080533.D
Acq: 19 Dec 2023 20:18

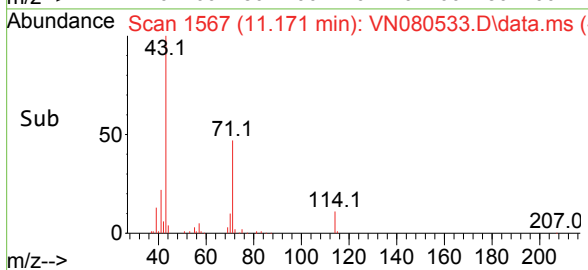
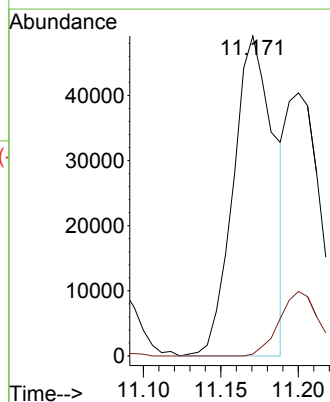
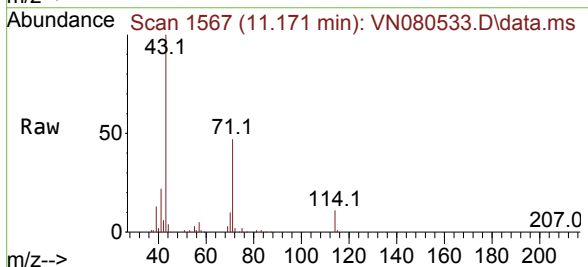
Instrument :
MSVOA_N
ClientSampleId :

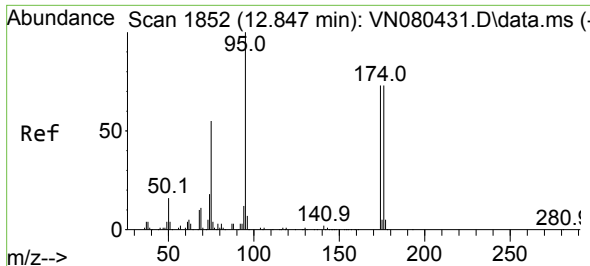
Tgt Ion: 76 Resp: 5233
Ion Ratio Lower Upper
76 100
78 0.0 26.1 39.1#



#59
2-Hexanone
Concen: 42.514 ug/l
RT: 11.171 min Scan# 1567
Delta R.T. -0.023 min
Lab File: VN080533.D
Acq: 19 Dec 2023 20:18

Tgt Ion: 43 Resp: 90309
Ion Ratio Lower Upper
43 100
58 0.0 31.7 95.1#

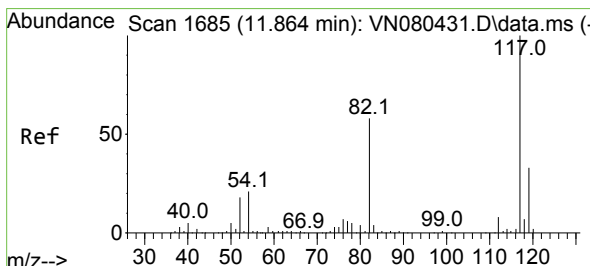
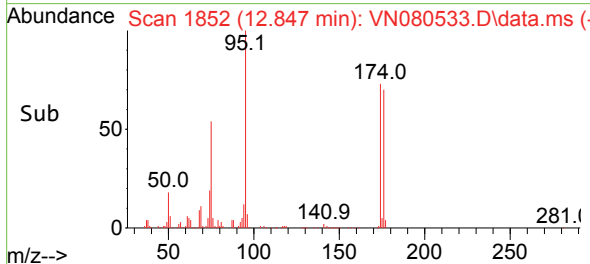
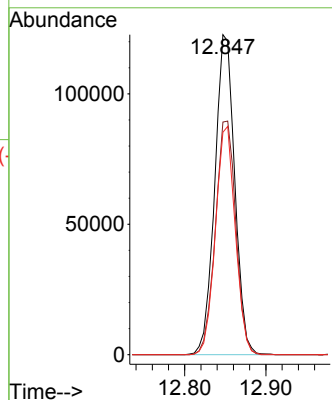
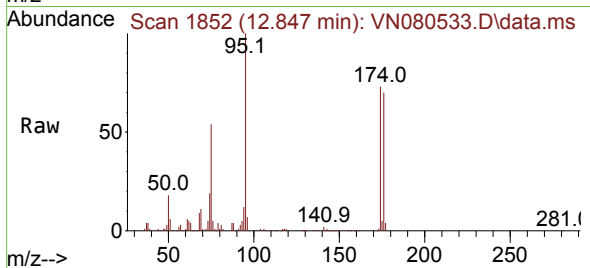




#62
4-Bromofluorobenzene
Concen: 52.204 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN080533.D
Acq: 19 Dec 2023 20:18

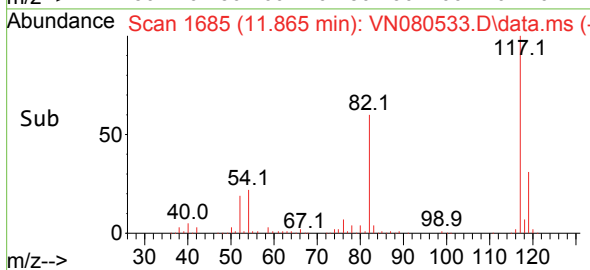
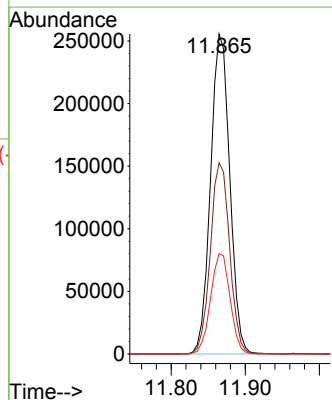
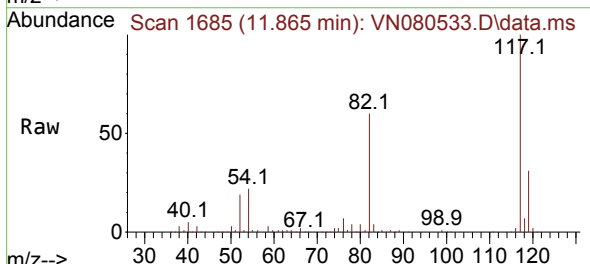
Instrument :
MSVOA_N
ClientSampleId :

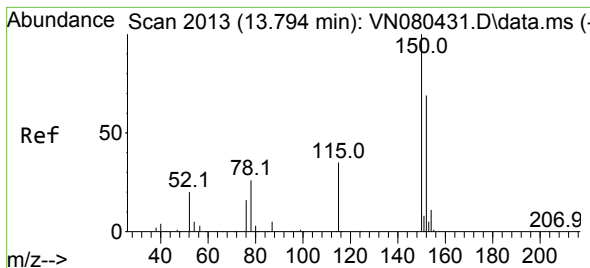
Tgt Ion: 95 Resp: 209811
Ion Ratio Lower Upper
95 100
174 75.0 0.0 143.8
176 70.7 0.0 135.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VN080533.D
Acq: 19 Dec 2023 20:18

Tgt Ion: 117 Resp: 459831
Ion Ratio Lower Upper
117 100
82 59.8 44.0 66.0
119 31.4 25.6 38.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.794 min Scan# 20

Delta R.T. 0.000 min

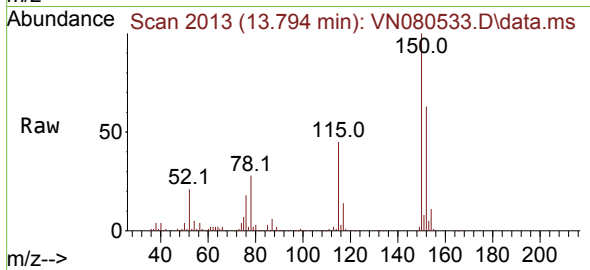
Lab File: VN080533.D

Acq: 19 Dec 2023 20:18

Instrument :

MSVOA_N

ClientSampleId :



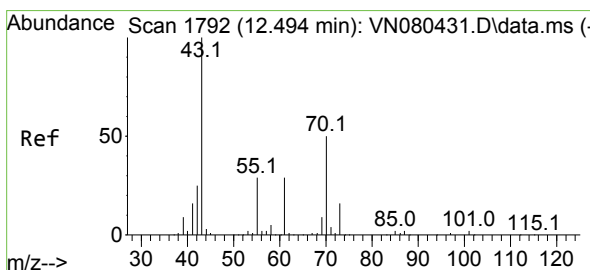
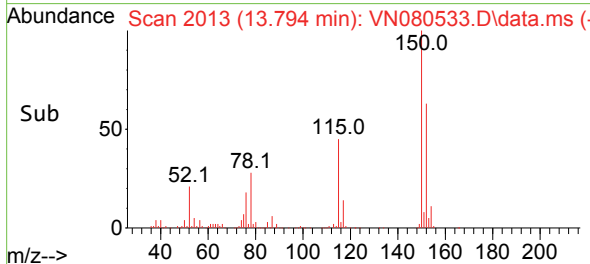
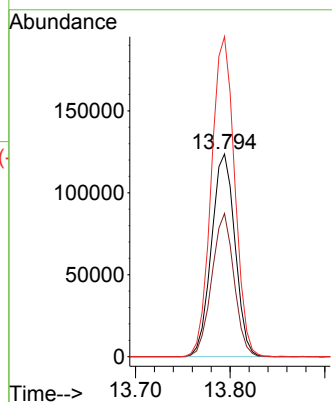
Tgt Ion:152 Resp: 213020

Ion Ratio Lower Upper

152 100

115 66.9 32.3 96.8

150 156.5 0.0 355.8



#74

N-ethyl acetate

Concen: 0.709 ug/l

RT: 12.465 min Scan# 1787

Delta R.T. -0.029 min

Lab File: VN080533.D

Acq: 19 Dec 2023 20:18

Tgt Ion: 43 Resp: 3545

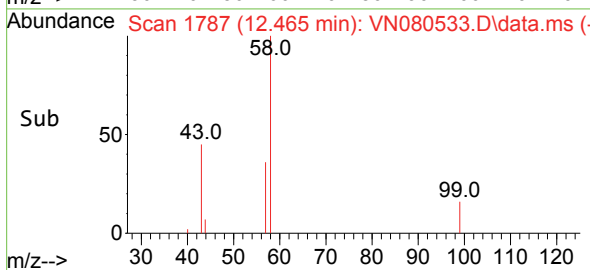
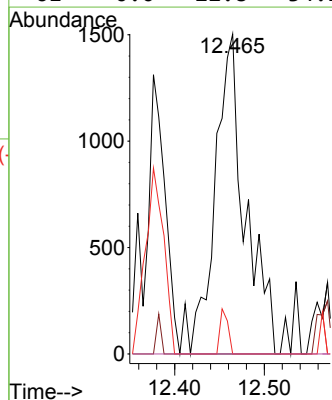
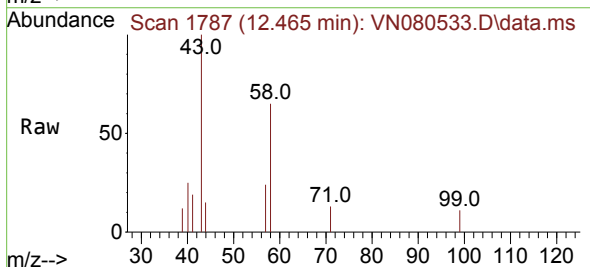
Ion Ratio Lower Upper

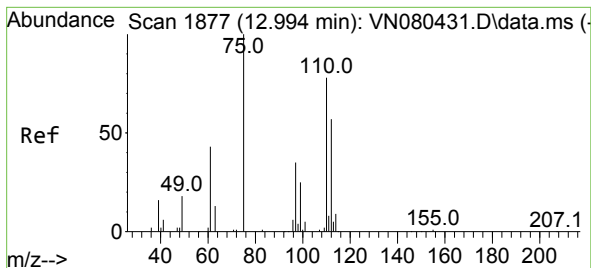
43 100

70 0.0 43.4 65.2#

55 3.6 21.4 32.0#

61 0.0 22.8 34.2#





#76

1,2,3-Trichloropropane

Concen: 27.192 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. -0.141 min

Lab File: VN080533.D

Acq: 19 Dec 2023 20:18

Instrument :

MSVOA_N

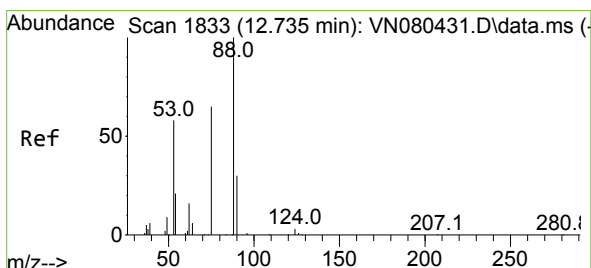
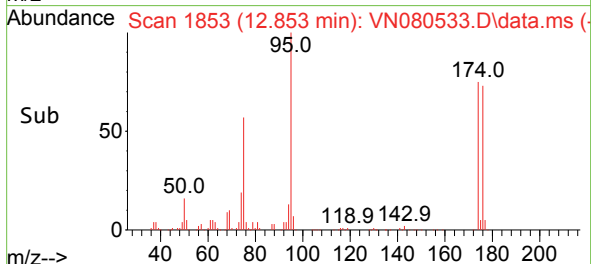
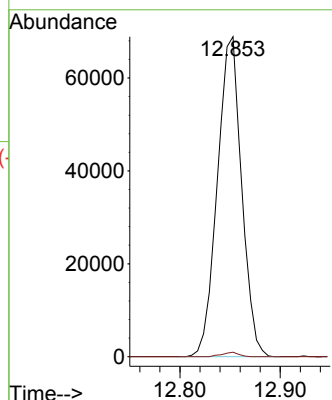
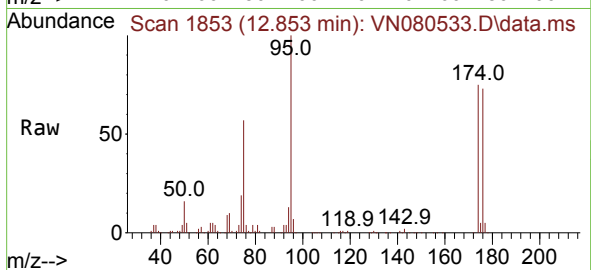
ClientSampleId :

Tgt Ion: 75 Resp: 115555

Ion Ratio Lower Upper

75 100

77 0.9 84.5 253.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 71.394 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. 0.118 min

Lab File: VN080533.D

Acq: 19 Dec 2023 20:18

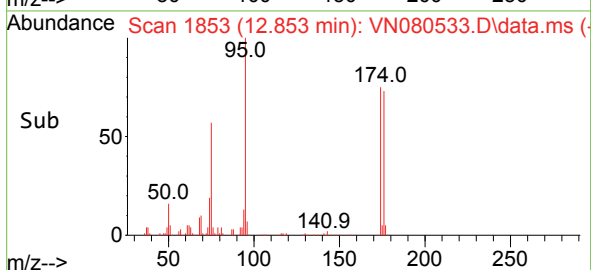
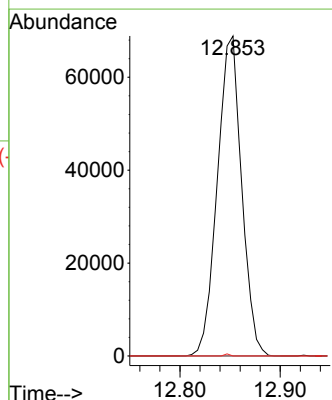
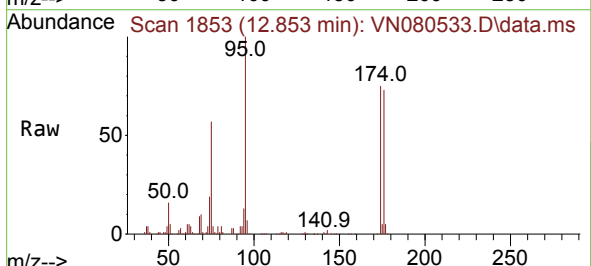
Tgt Ion: 75 Resp: 115555

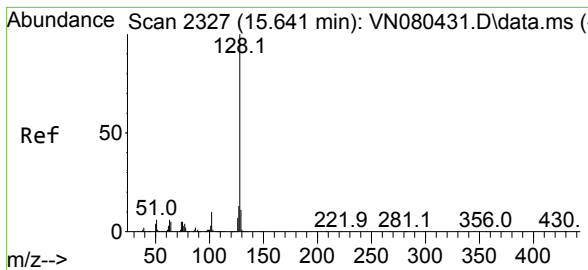
Ion Ratio Lower Upper

75 100

53 0.0 67.4 101.2#

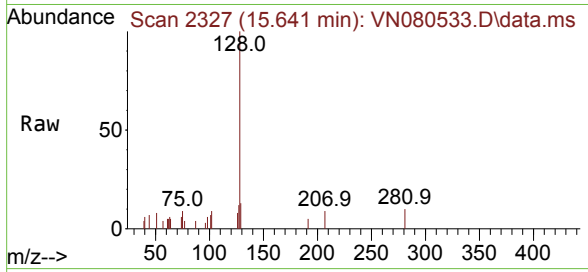
89 0.1 38.8 58.2#





#95
 Naphthalene
 Concen: 0.772 ug/l
 RT: 15.641 min Scan# 21
 Delta R.T. 0.000 min
 Lab File: VN080533.D
 Acq: 19 Dec 2023 20:18

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion:	128	Resp:	9164
Ion	Ratio	Lower	Upper
128	100		
127	13.7	10.0	15.0
129	9.8	8.7	13.1

