

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120423\
 Data File : VN080343.D
 Acq On : 04 Dec 2023 17:09
 Operator : JC\MD
 Sample : 05602-08
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Dec 05 04:18:55 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)

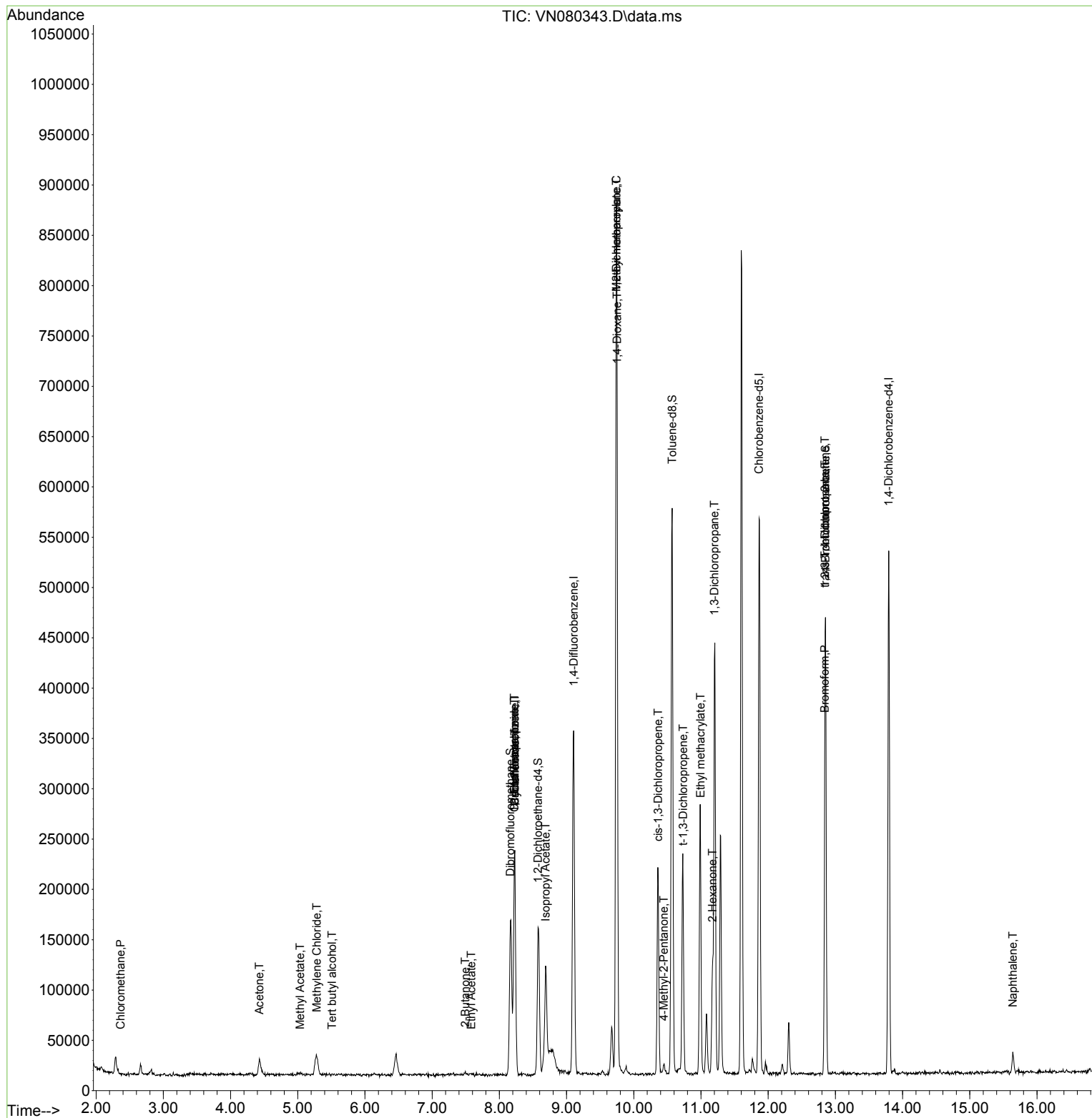
Internal Standards						
1) Pentafluorobenzene	8.230	168	150319	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	290851	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	318925	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	139541	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	139311	56.128	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 112.260%	
35) Dibromofluoromethane	8.165	113	110605	51.538	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 103.080%	
50) Toluene-d8	10.571	98	395802	51.162	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 102.320%	
62) 4-Bromofluorobenzene	12.853	95	158575	54.267	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 108.540%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.365	50	414	0.246	ug/l	# 42
6) Chloroethane	3.136	64	729	Below Cal	#	43
11) Tert butyl alcohol	5.512	59	255	0.934	ug/l	# 72
16) Acetone	4.430	43	27048	32.445	ug/l	94
18) Methyl Acetate	5.036	43	4106	1.533	ug/l	# 79
20) Methylene Chloride	5.283	84	17371	9.950	ug/l	97
25) 2-Butanone	7.494	43	3922	3.960	ug/l	# 79
31) Cyclohexane	8.230	56	3621	1.341	ug/l	# 33
36) 1,1-Dichloropropene	8.224	75	12258	3.945	ug/l	# 46
37) Ethyl Acetate	7.583	43	2801	1.300	ug/l	# 66
38) Carbon Tetrachloride	8.224	117	18053	4.579	ug/l	# 15
43) Isopropyl Acetate	8.688	43	124028	29.573	ug/l	# 79
45) 1,2-Dichloropropane	9.741	63	1126	0.549	ug/l	# 45
48) Methyl methacrylate	9.741	41	85182	39.412	ug/l	# 30
49) 1,4-Dioxane	9.753	88	54	1.502	ug/l	# 1
51) 4-Methyl-2-Pentanone	10.447	43	9494	4.372	ug/l	# 69
53) t-1,3-Dichloropropene	10.735	75	804	0.229	ug/l	95
54) cis-1,3-Dichloropropene	10.365	75	38804	10.818	ug/l	# 69
56) Ethyl methacrylate	10.994	69	1328	0.616	ug/l	# 1
57) 1,3-Dichloropropane	11.200	76	4943	1.342	ug/l	# 42
59) 2-Hexanone	11.171	43	73429	42.085	ug/l	# 19
71) Bromoform	12.841	173	563	0.271	ug/l	# 1
76) 1,2,3-Trichloropropane	12.847	75	88971	26.023	ug/l	# 1
81) trans-1,4-Dichloro-2-b...	12.847	75	88971	87.920	ug/l	# 15
95) Naphthalene	15.641	128	18107	2.278	ug/l	97

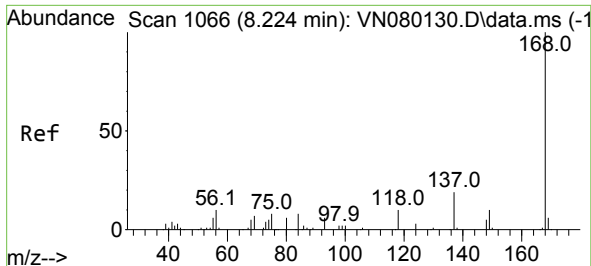
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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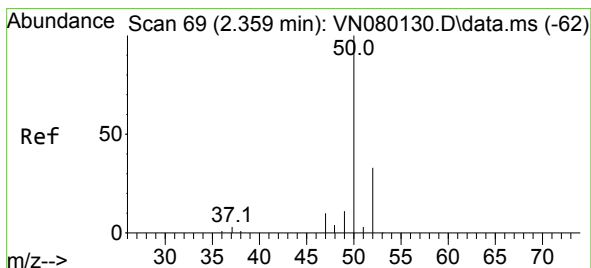
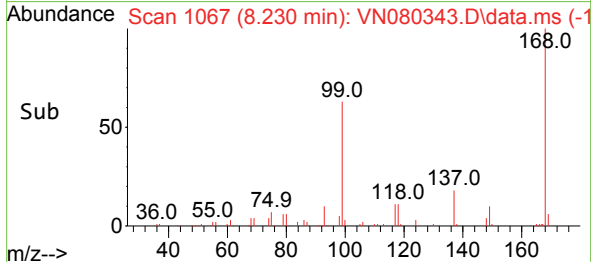
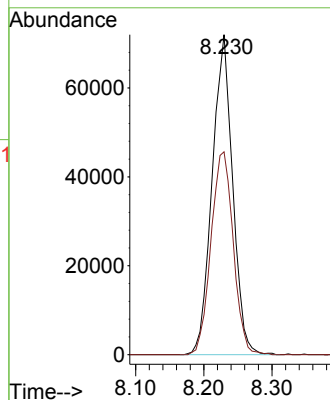
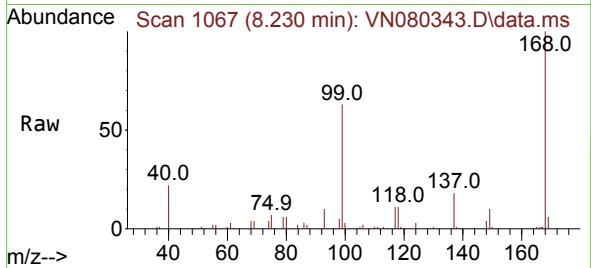




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN080343.D
Acq: 04 Dec 2023 17:09

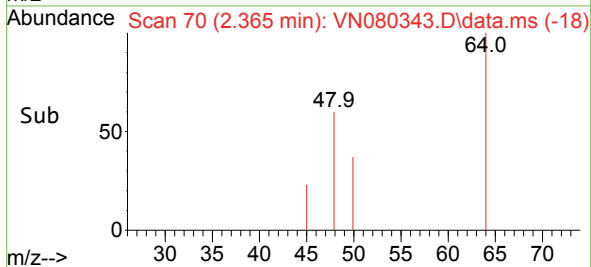
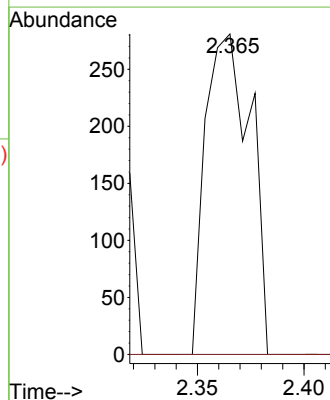
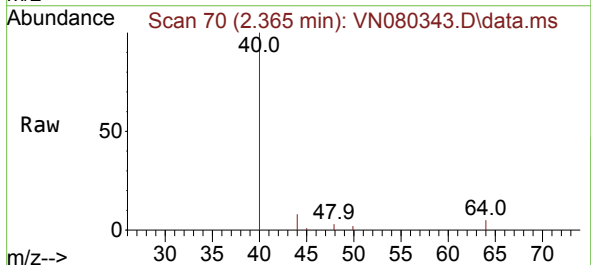
Instrument :
MSVOA_N
ClientSampleId :

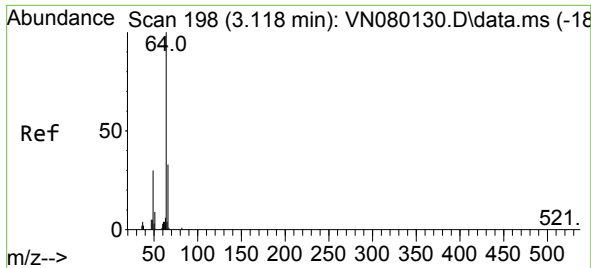
Tgt Ion:168 Resp: 150319
Ion Ratio Lower Upper
168 100
99 63.4 53.0 79.6



#3
Chloromethane
Concen: 0.246 ug/l
RT: 2.365 min Scan# 70
Delta R.T. 0.006 min
Lab File: VN080343.D
Acq: 04 Dec 2023 17:09

Tgt Ion: 50 Resp: 414
Ion Ratio Lower Upper
50 100
52 0.0 26.5 39.7#

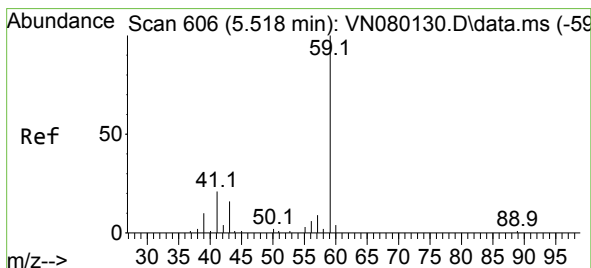
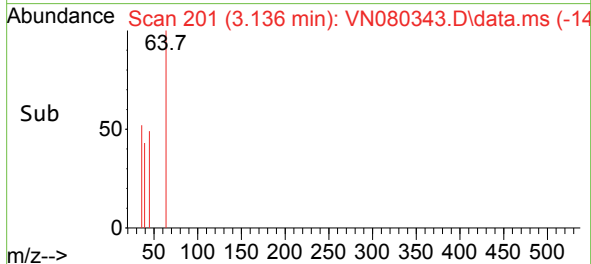
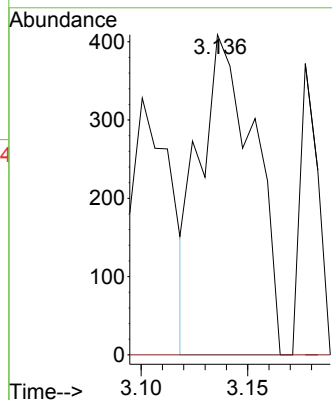
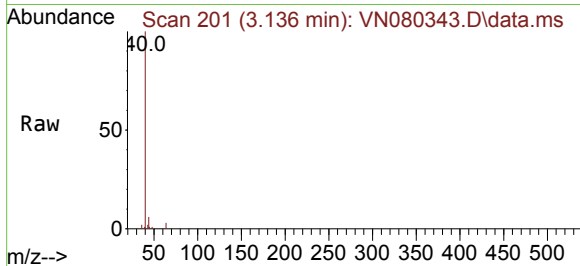




#6
Chloroethane
Concen: Below Cal
RT: 3.136 min Scan# 201
Delta R.T. 0.018 min
Lab File: VN080343.D
Acq: 04 Dec 2023 17:09

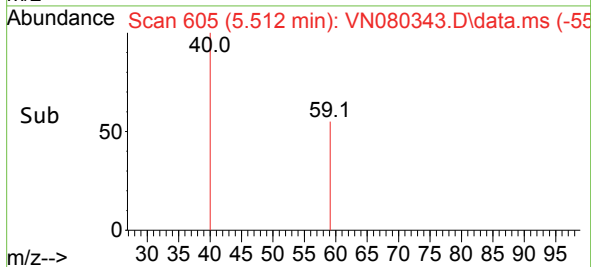
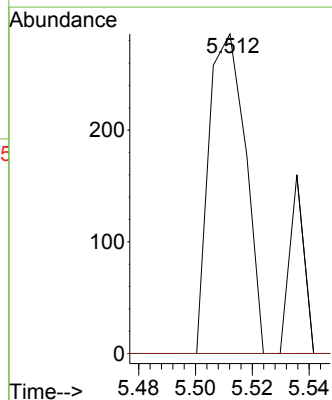
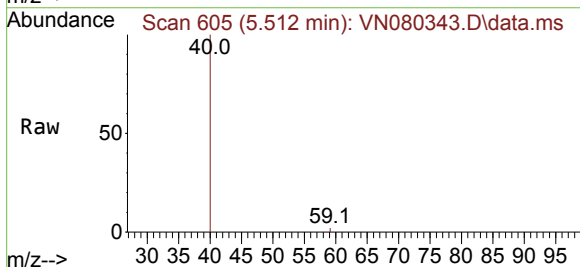
Instrument :
MSVOA_N
ClientSampleId :

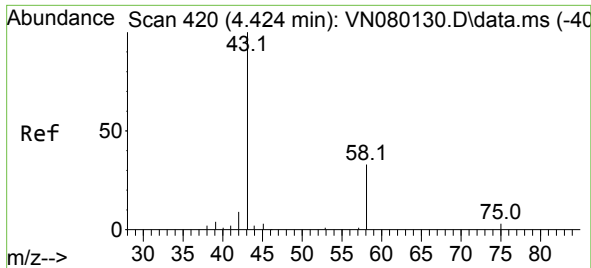
Tgt Ion: 64 Resp: 729
Ion Ratio Lower Upper
64 100
66 0.0 25.4 38.2#



#11
Tert butyl alcohol
Concen: 0.934 ug/l
RT: 5.512 min Scan# 605
Delta R.T. -0.006 min
Lab File: VN080343.D
Acq: 04 Dec 2023 17:09

Tgt Ion: 59 Resp: 255
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#

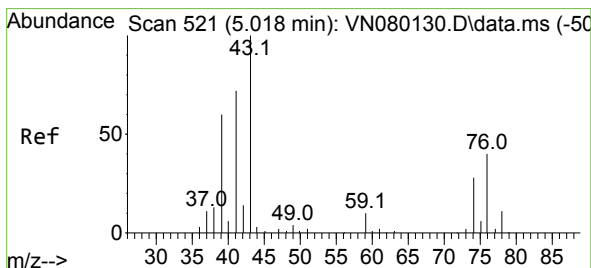
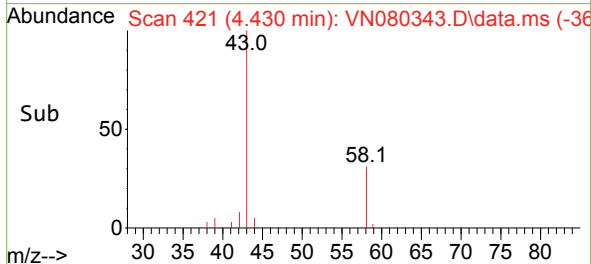
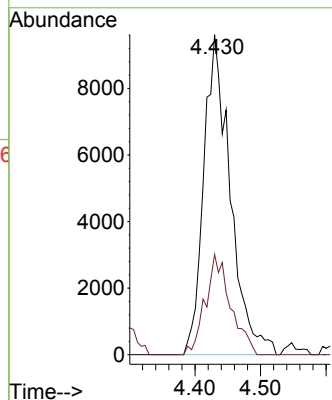
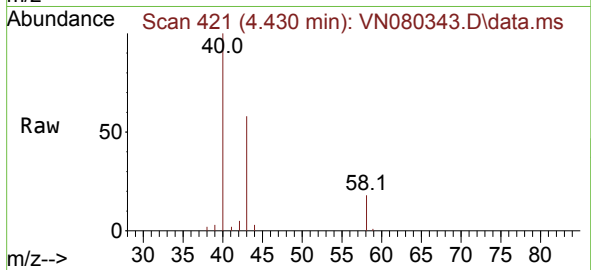




#16
Acetone
Concen: 32.445 ug/l
RT: 4.430 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN080343.D
Acq: 04 Dec 2023 17:09

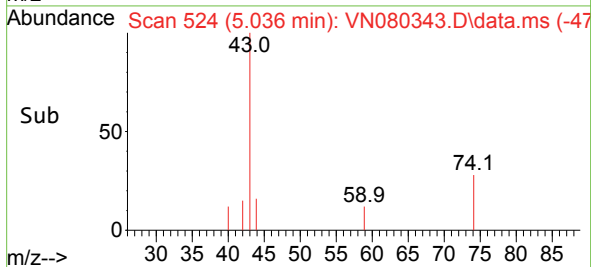
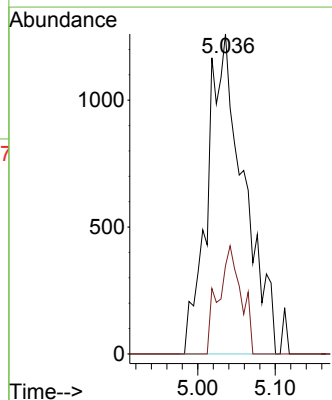
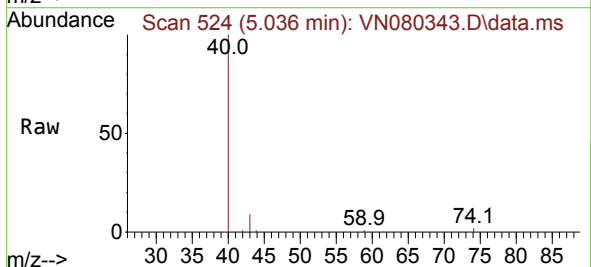
Instrument :
MSVOA_N
ClientSampleId :

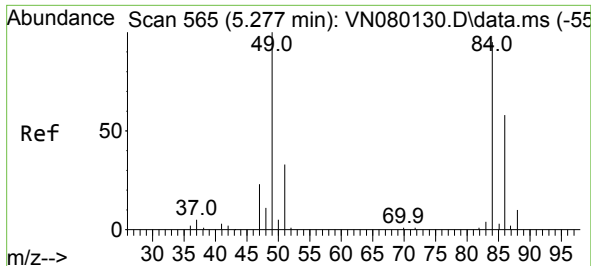
Tgt Ion: 43 Resp: 27048
Ion Ratio Lower Upper
43 100
58 31.3 28.0 42.0



#18
Methyl Acetate
Concen: 1.533 ug/l
RT: 5.036 min Scan# 524
Delta R.T. 0.018 min
Lab File: VN080343.D
Acq: 04 Dec 2023 17:09

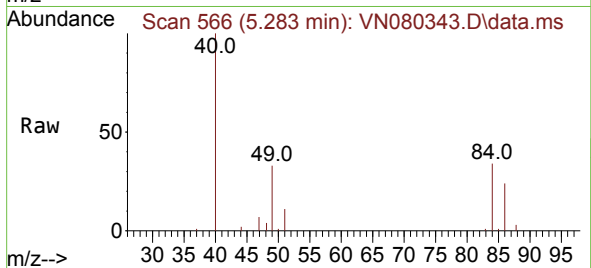
Tgt Ion: 43 Resp: 4106
Ion Ratio Lower Upper
43 100
74 21.1 26.2 39.4#



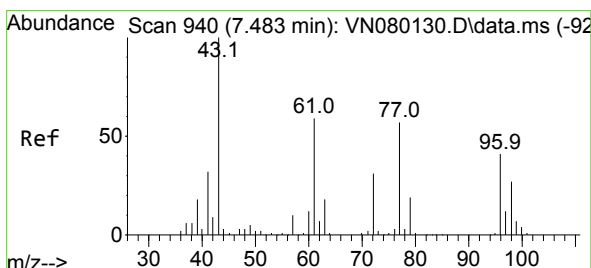
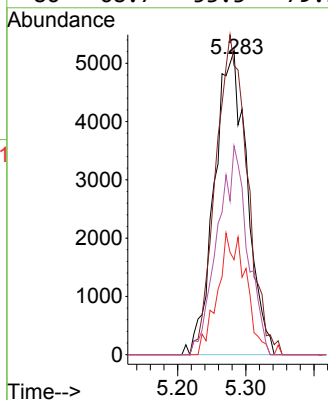
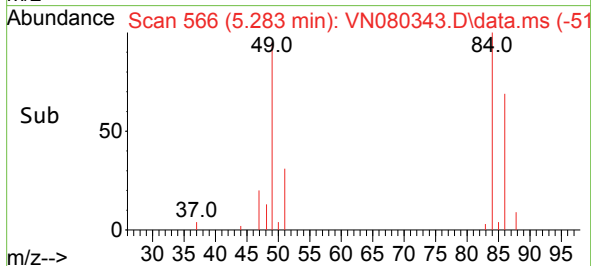


#20
Methylene Chloride
Concen: 9.950 ug/l
RT: 5.283 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN080343.D
Acq: 04 Dec 2023 17:09

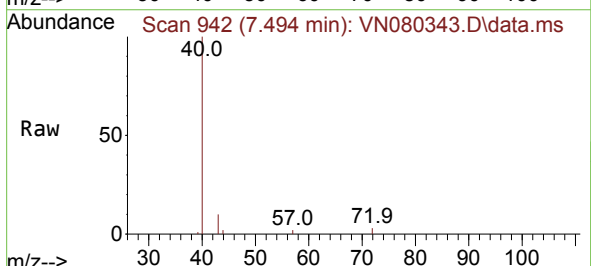
Instrument :
MSVOA_N
ClientSampleId :



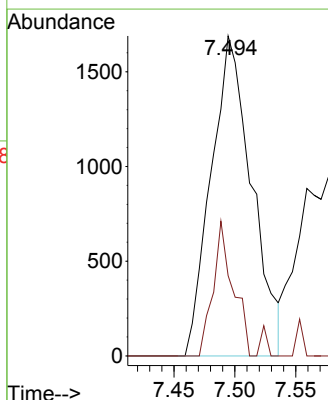
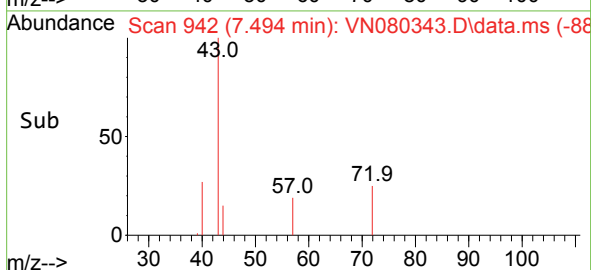
Tgt Ion:	84	Resp:	17371
Ion	Ratio	Lower	Upper
84	100		
49	95.1	79.7	119.5
51	31.3	25.2	37.8
86	68.7	53.3	79.9

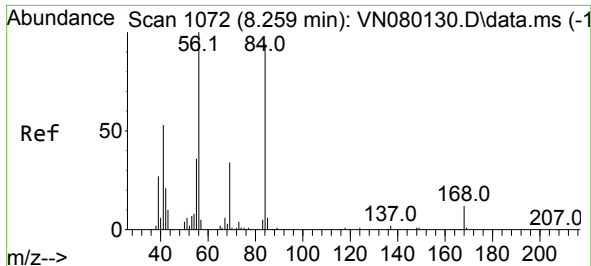


#25
2-Butanone
Concen: 3.960 ug/l
RT: 7.494 min Scan# 942
Delta R.T. 0.012 min
Lab File: VN080343.D
Acq: 04 Dec 2023 17:09



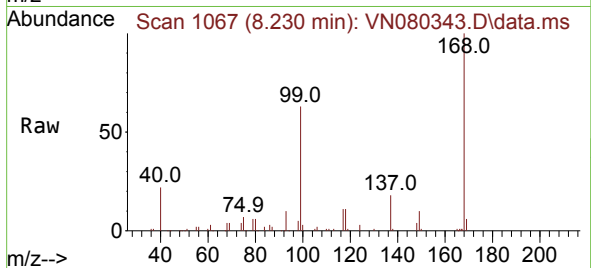
Tgt Ion:	43	Resp:	3922
Ion	Ratio	Lower	Upper
43	100		
72	25.1	30.2	45.2#



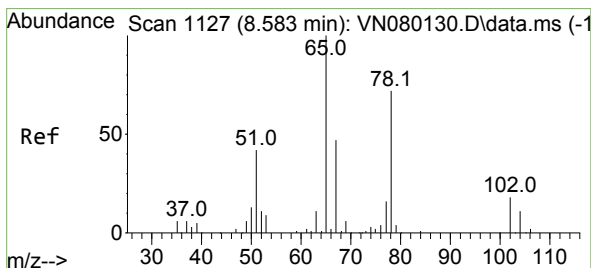
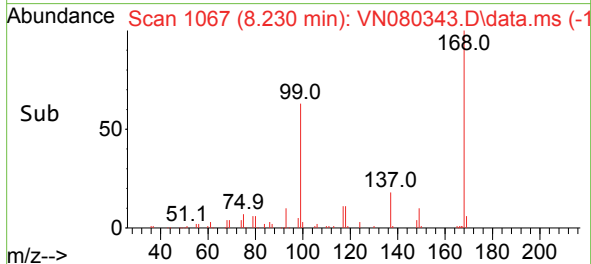
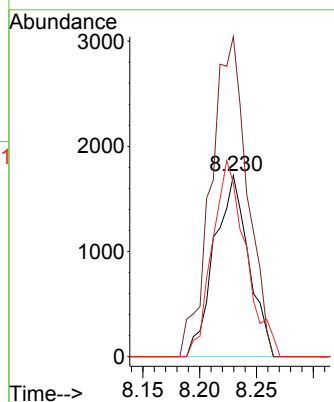


#31
Cyclohexane
Concen: 1.341 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.029 min
Lab File: VN080343.D
Acq: 04 Dec 2023 17:09

Instrument :
MSVOA_N
ClientSampleId :

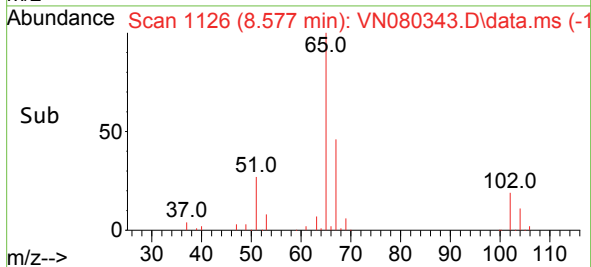
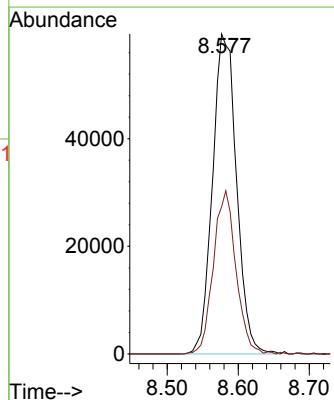
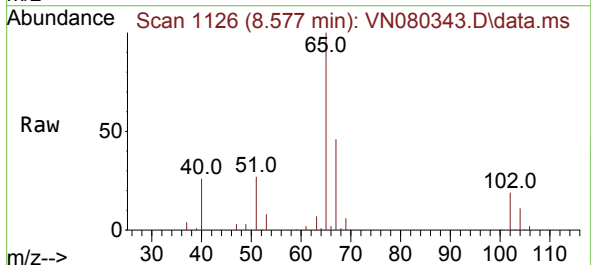


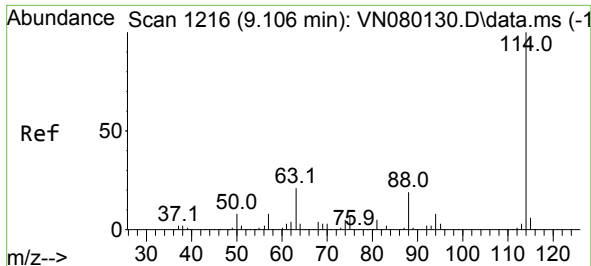
Tgt Ion: 56 Resp: 3621
Ion Ratio Lower Upper
56 100
69 176.8 26.8 40.2#
84 96.0 81.8 122.6



#33
1,2-Dichloroethane-d4
Concen: 56.128 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. -0.006 min
Lab File: VN080343.D
Acq: 04 Dec 2023 17:09

Tgt Ion: 65 Resp: 139311
Ion Ratio Lower Upper
65 100
67 48.0 0.0 106.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN080343.D

Acq: 04 Dec 2023 17:09

Instrument :

MSVOA_N

ClientSampleId :

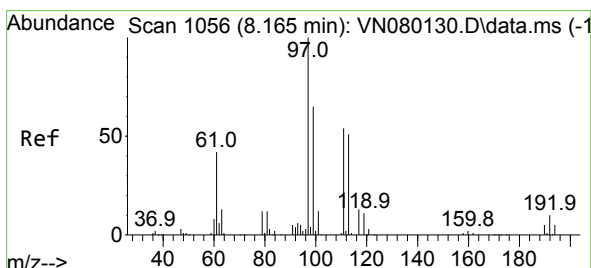
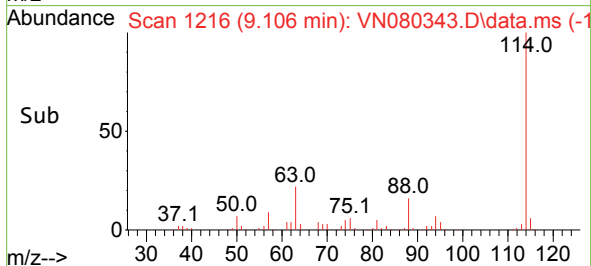
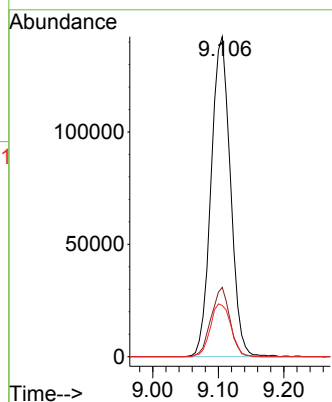
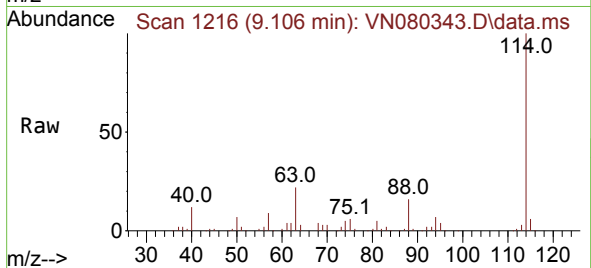
Tgt Ion:114 Resp: 290851

Ion Ratio Lower Upper

114 100

63 21.7 0.0 36.4

88 16.0 0.0 30.6



#35

Dibromofluoromethane

Concen: 51.538 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN080343.D

Acq: 04 Dec 2023 17:09

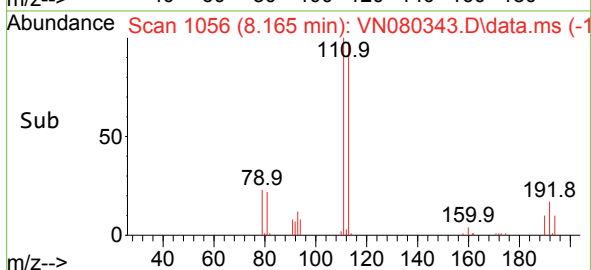
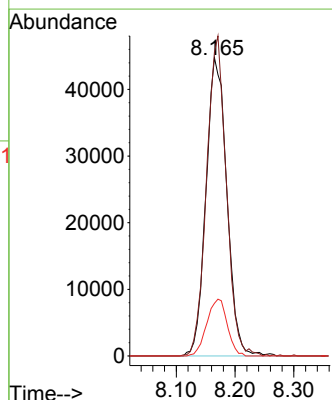
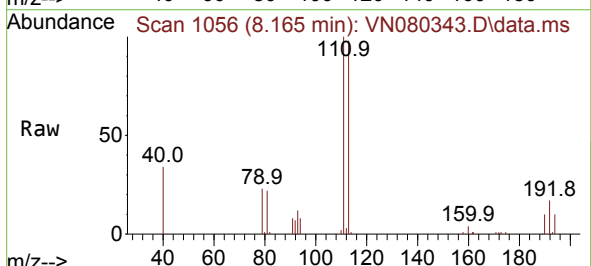
Tgt Ion:113 Resp: 110605

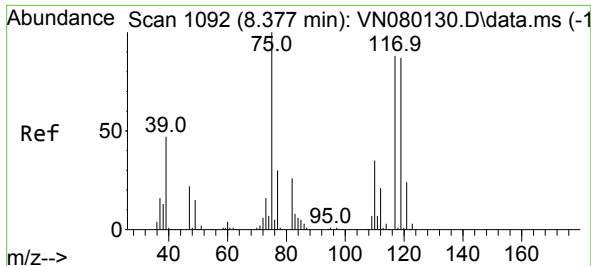
Ion Ratio Lower Upper

113 100

111 101.4 82.6 123.8

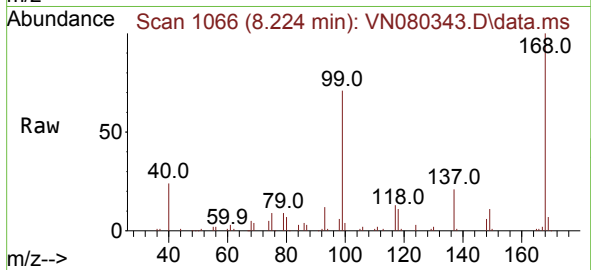
192 18.6 12.7 19.1



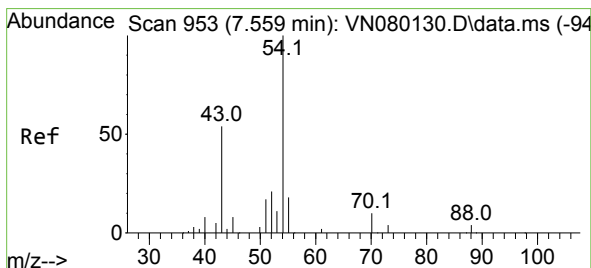
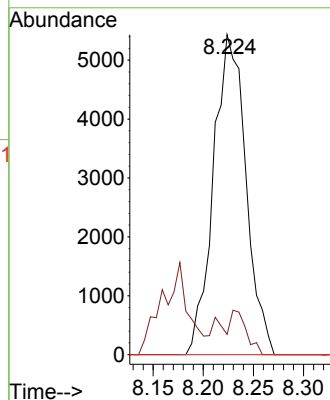
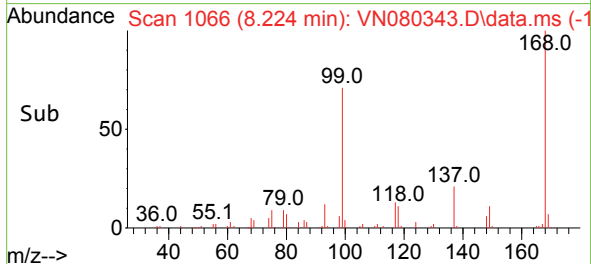


#36
1,1-Dichloropropene
Concen: 3.945 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.153 min
Lab File: VN080343.D
Acq: 04 Dec 2023 17:09

Instrument :
MSVOA_N
ClientSampleId :

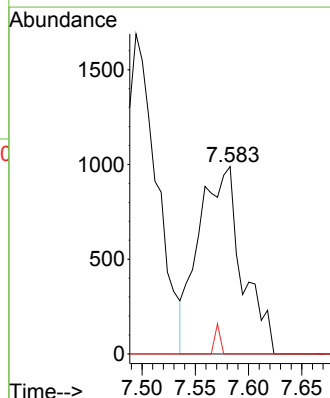
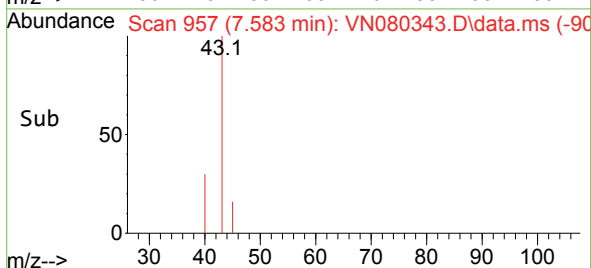
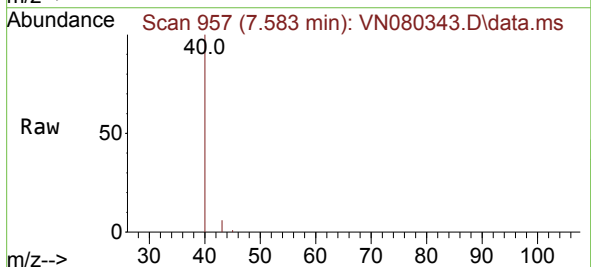


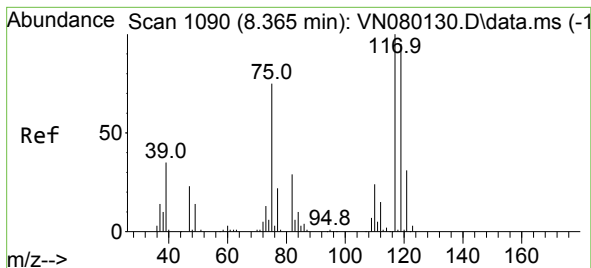
Tgt Ion: 75 Resp: 12258
Ion Ratio Lower Upper
75 100
110 6.7 19.1 57.3#
77 0.0 25.0 37.4#



#37
Ethyl Acetate
Concen: 1.300 ug/l
RT: 7.583 min Scan# 957
Delta R.T. 0.023 min
Lab File: VN080343.D
Acq: 04 Dec 2023 17:09

Tgt Ion: 43 Resp: 2801
Ion Ratio Lower Upper
43 100
61 0.0 13.2 19.8#
70 2.0 11.3 16.9#





#38

Carbon Tetrachloride

Concen: 4.579 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.141 min

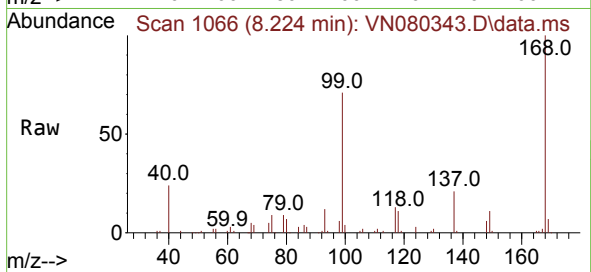
Lab File: VN080343.D

Acq: 04 Dec 2023 17:09

Instrument :

MSVOA_N

ClientSampleId :



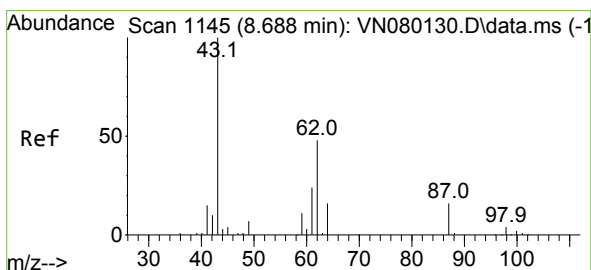
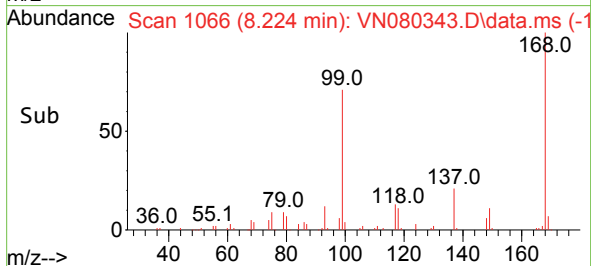
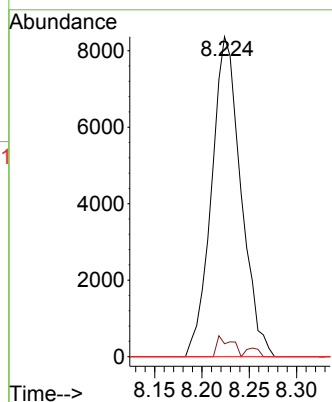
Tgt Ion:117 Resp: 18053

Ion Ratio Lower Upper

117 100

119 4.0 77.3 115.9#

121 0.0 23.3 34.9#



#43

Isopropyl Acetate

Concen: 29.573 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. -0.000 min

Lab File: VN080343.D

Acq: 04 Dec 2023 17:09

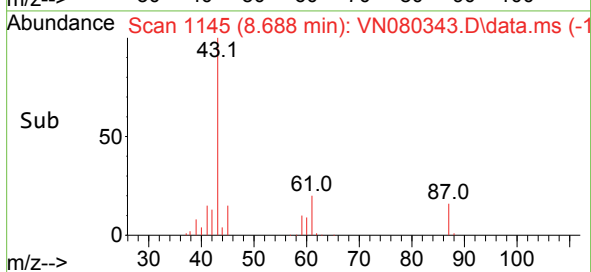
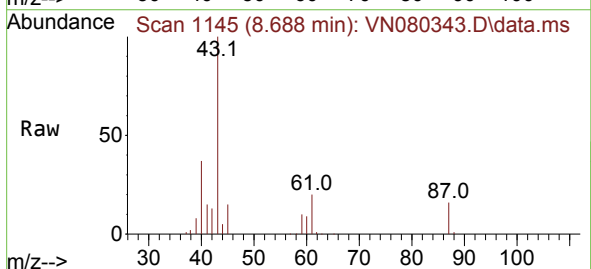
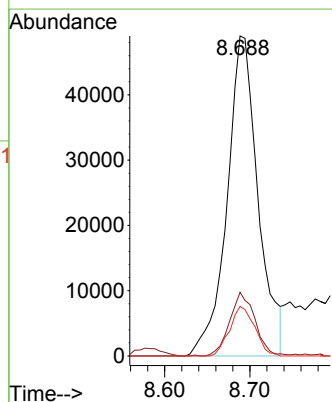
Tgt Ion: 43 Resp: 124028

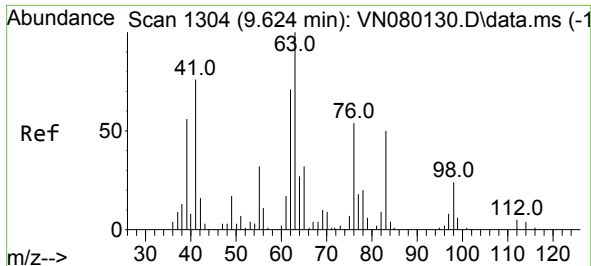
Ion Ratio Lower Upper

43 100

61 16.3 24.7 37.1#

87 12.6 14.6 21.8#





#45

1,2-Dichloropropane

Concen: 0.549 ug/l

RT: 9.741 min Scan# 1126

Delta R.T. 0.118 min

Lab File: VN080343.D

Acq: 04 Dec 2023 17:09

Instrument :

MSVOA_N

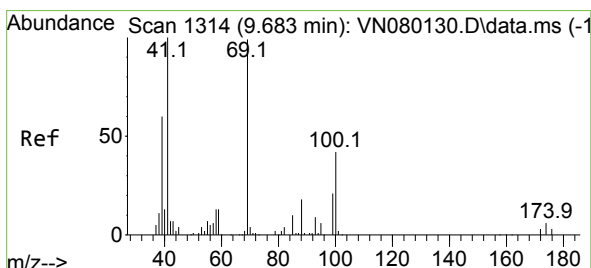
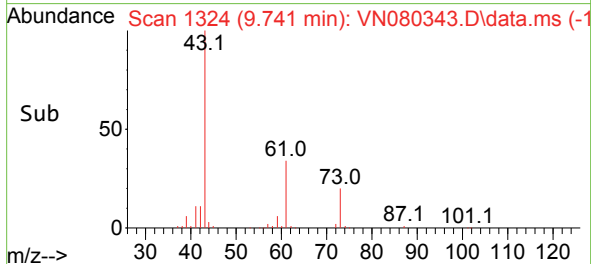
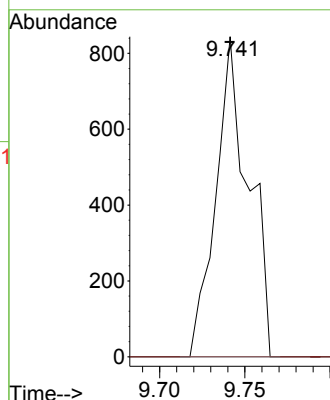
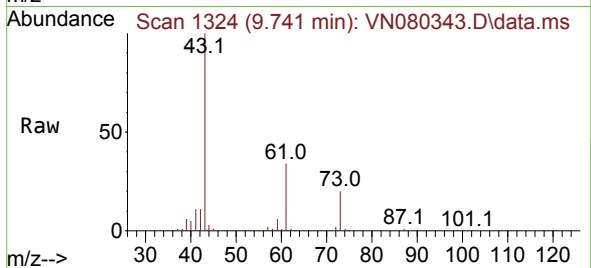
ClientSampleId :

Tgt Ion: 63 Resp: 1126

Ion Ratio Lower Upper

63 100

65 0.0 23.9 35.9#



#48

Methyl methacrylate

Concen: 39.412 ug/l

RT: 9.741 min Scan# 1324

Delta R.T. 0.059 min

Lab File: VN080343.D

Acq: 04 Dec 2023 17:09

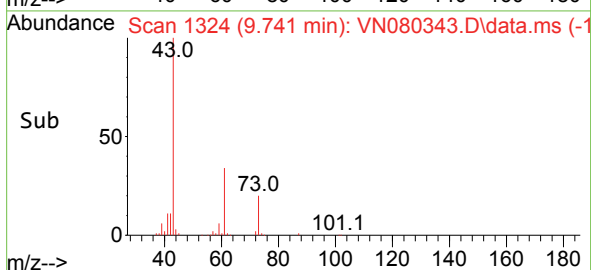
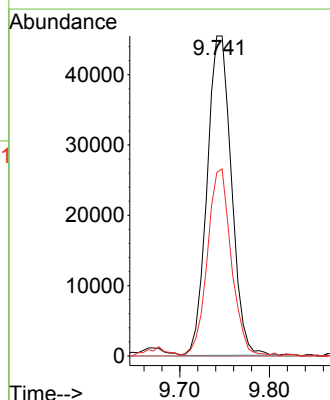
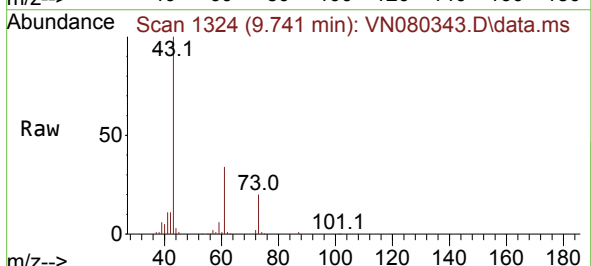
Tgt Ion: 41 Resp: 85182

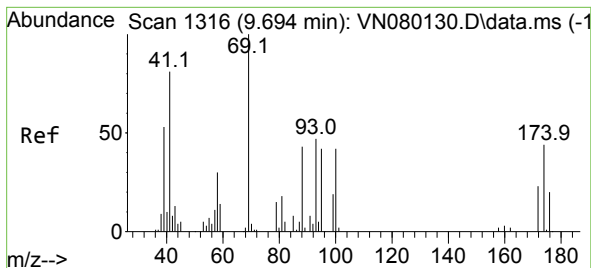
Ion Ratio Lower Upper

41 100

69 0.0 90.4 135.6#

39 57.9 54.6 81.8





#49

1,4-Dioxane

Concen: 1.502 ug/l

RT: 9.753 min Scan# 11

Delta R.T. 0.059 min

Lab File: VN080343.D

Acq: 04 Dec 2023 17:09

Instrument :

MSVOA_N

ClientSampleId :

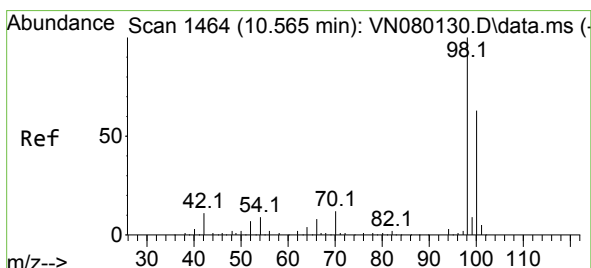
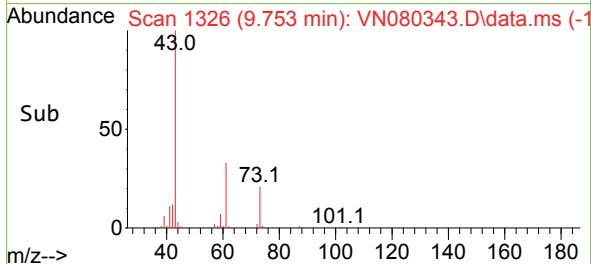
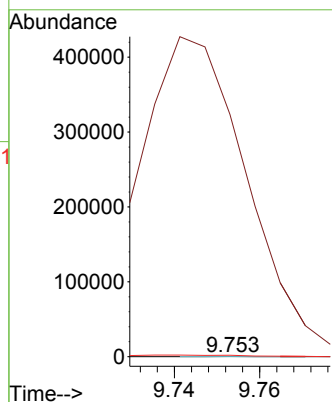
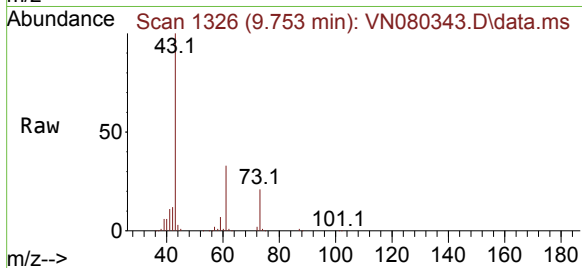
Tgt Ion: 88 Resp: 54

Ion Ratio Lower Upper

88 100

43 1449103.7 17.0 25.6#

58 8113.0 47.0 70.4#



#50

Toluene-d8

Concen: 51.162 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. 0.006 min

Lab File: VN080343.D

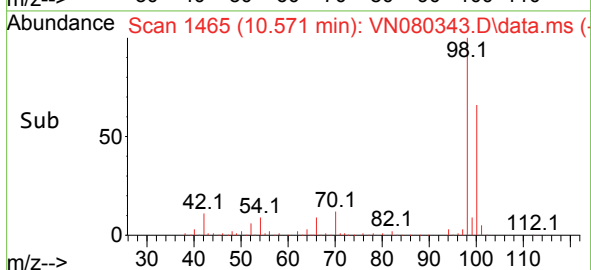
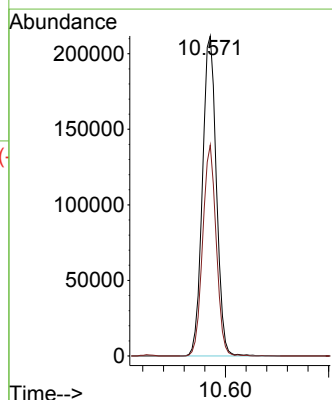
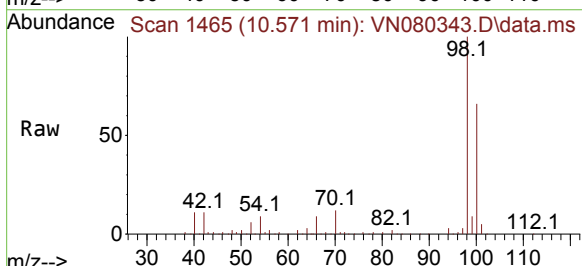
Acq: 04 Dec 2023 17:09

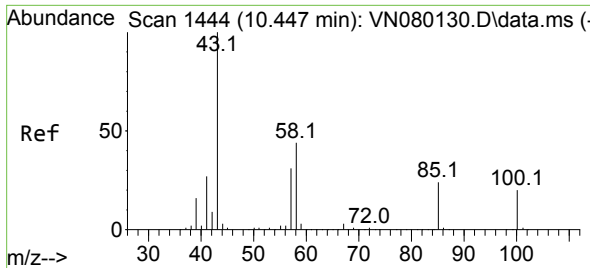
Tgt Ion: 98 Resp: 395802

Ion Ratio Lower Upper

98 100

100 64.0 52.0 78.0

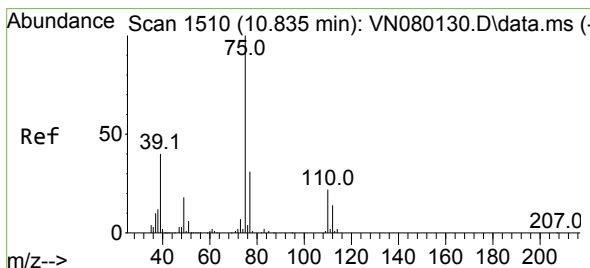
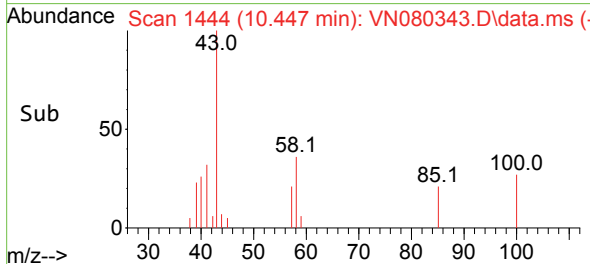
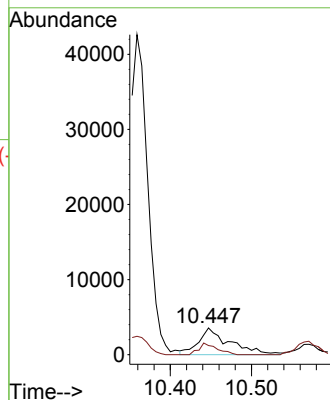
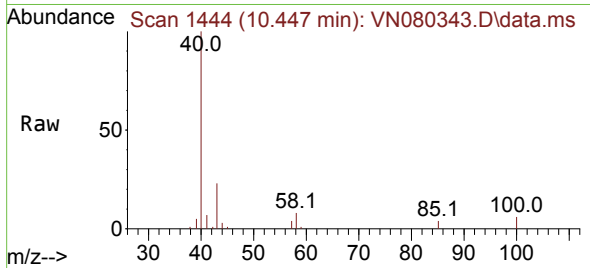




#51
4-Methyl-2-Pentanone
Concen: 4.372 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. -0.000 min
Lab File: VN080343.D
Acq: 04 Dec 2023 17:09

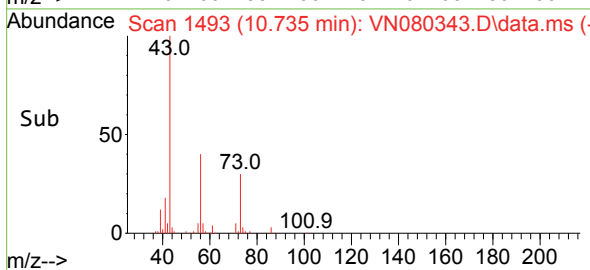
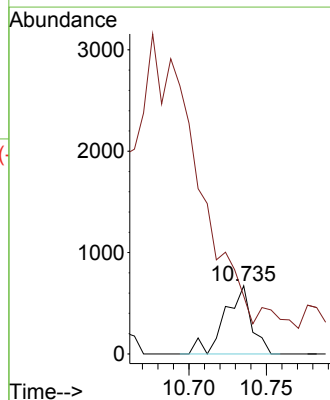
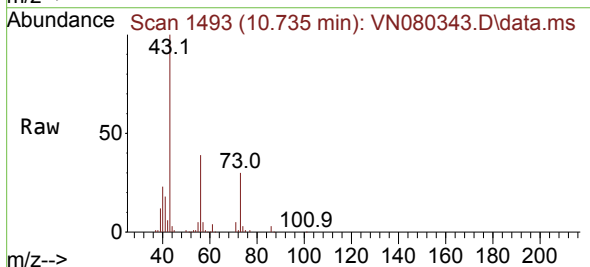
Instrument :
MSVOA_N
ClientSampleId :

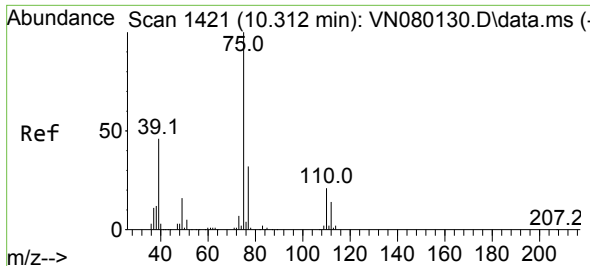
Tgt Ion: 43 Resp: 9494
Ion Ratio Lower Upper
43 100
58 25.1 36.6 54.8#



#53
t-1,3-Dichloropropene
Concen: 0.229 ug/l
RT: 10.735 min Scan# 1493
Delta R.T. -0.100 min
Lab File: VN080343.D
Acq: 04 Dec 2023 17:09

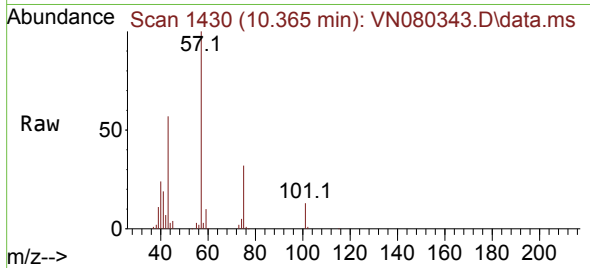
Tgt Ion: 75 Resp: 804
Ion Ratio Lower Upper
75 100
77 34.2 25.4 38.0



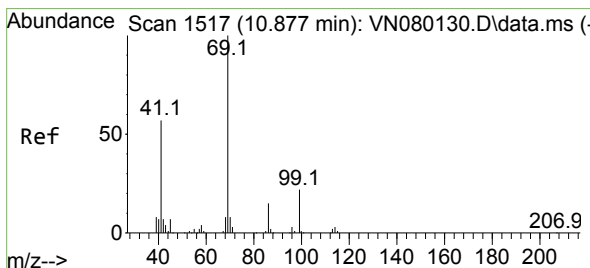
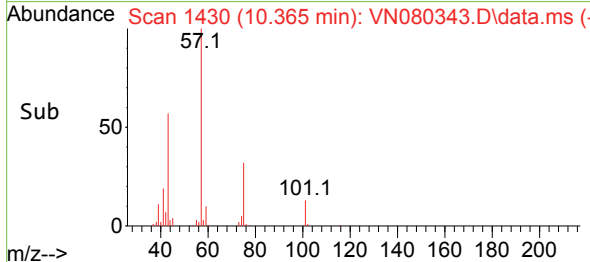
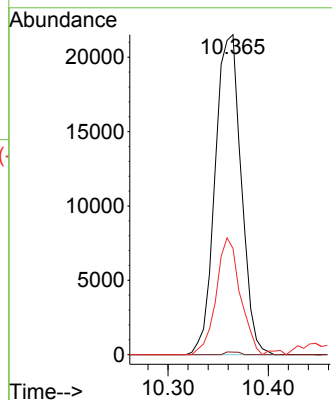


#54
 cis-1,3-Dichloropropene
 Concen: 10.818 ug/l
 RT: 10.365 min Scan# 1421
 Delta R.T. 0.053 min
 Lab File: VN080343.D
 Acq: 04 Dec 2023 17:09

Instrument :
 MSVOA_N
 ClientSampleId :

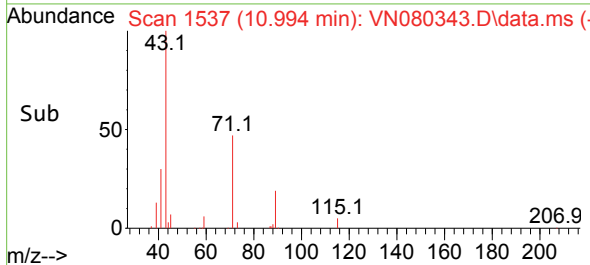
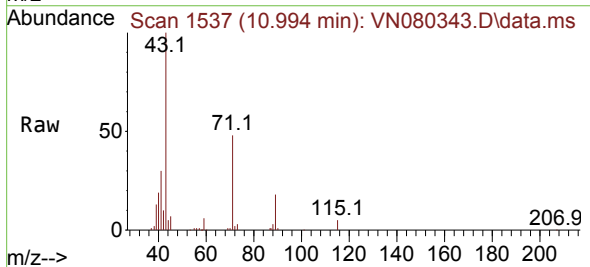
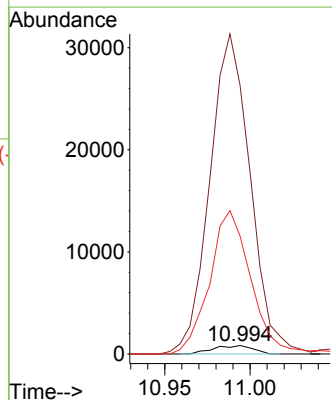


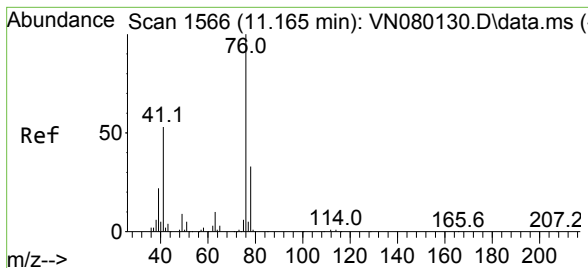
Tgt Ion: 75 Resp: 38804
 Ion Ratio Lower Upper
 75 100
 77 0.8 26.1 39.1#
 39 33.2 31.6 47.4



#56
 Ethyl methacrylate
 Concen: 0.616 ug/l
 RT: 10.994 min Scan# 1537
 Delta R.T. 0.118 min
 Lab File: VN080343.D
 Acq: 04 Dec 2023 17:09

Tgt Ion: 69 Resp: 1328
 Ion Ratio Lower Upper
 69 100
 41 3898.0 39.6 59.4#
 39 1787.2 28.6 43.0#

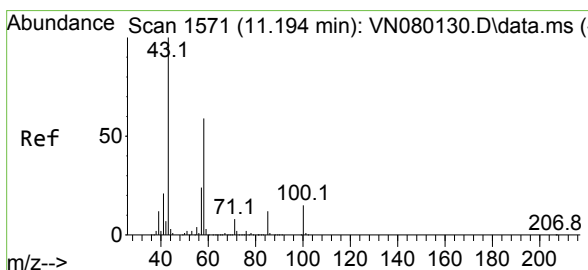
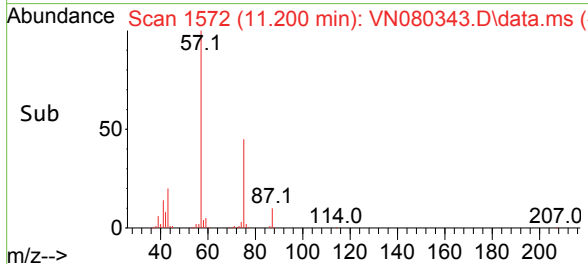
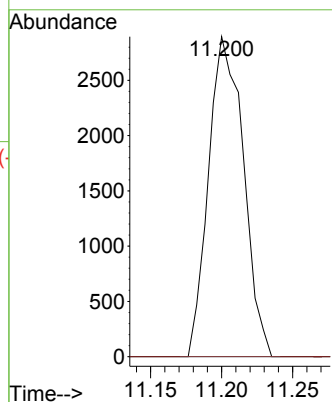
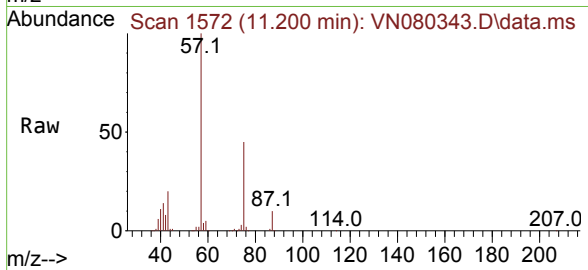




#57
1,3-Dichloropropane
Concen: 1.342 ug/l
RT: 11.200 min Scan# 1567
Delta R.T. 0.035 min
Lab File: VN080343.D
Acq: 04 Dec 2023 17:09

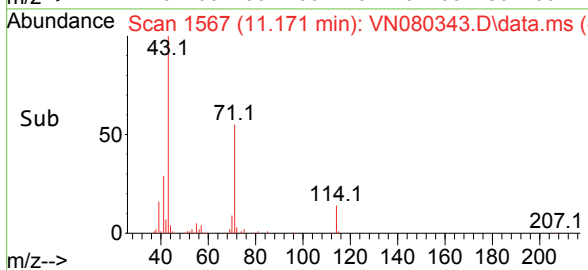
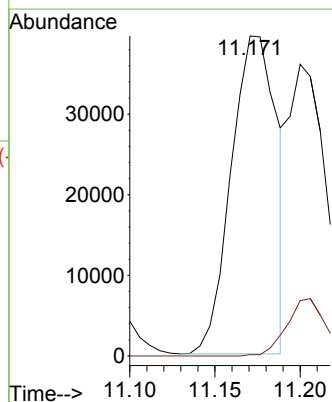
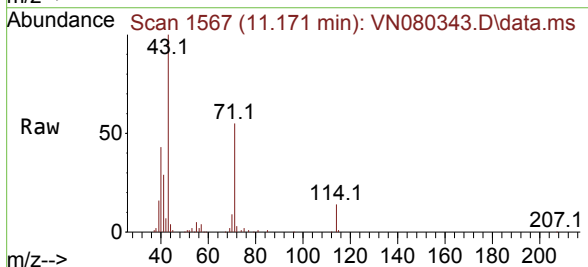
Instrument :
MSVOA_N
ClientSampleId :

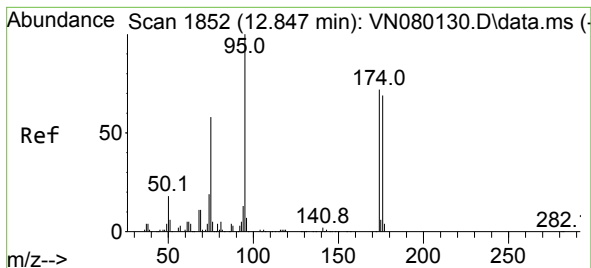
Tgt Ion: 76 Resp: 4943
Ion Ratio Lower Upper
76 100
78 0.0 26.1 39.1#



#59
2-Hexanone
Concen: 42.085 ug/l
RT: 11.171 min Scan# 1567
Delta R.T. -0.024 min
Lab File: VN080343.D
Acq: 04 Dec 2023 17:09

Tgt Ion: 43 Resp: 73429
Ion Ratio Lower Upper
43 100
58 0.0 31.7 95.1#

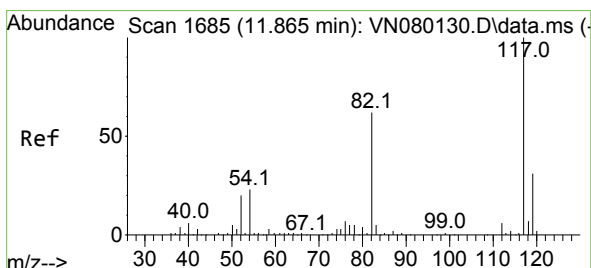
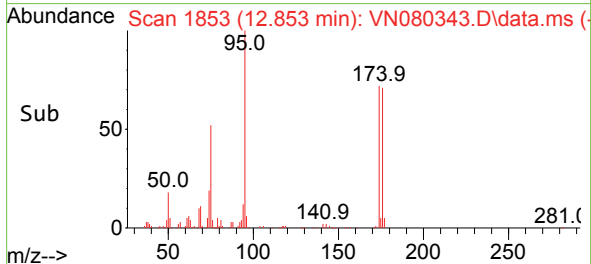
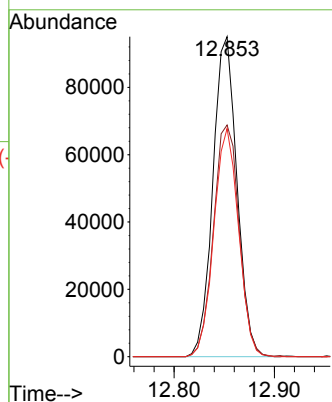
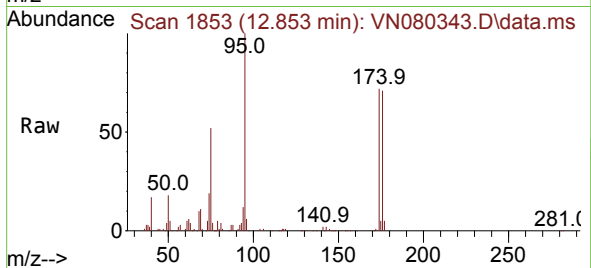




#62
4-Bromofluorobenzene
Concen: 54.267 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.006 min
Lab File: VN080343.D
Acq: 04 Dec 2023 17:09

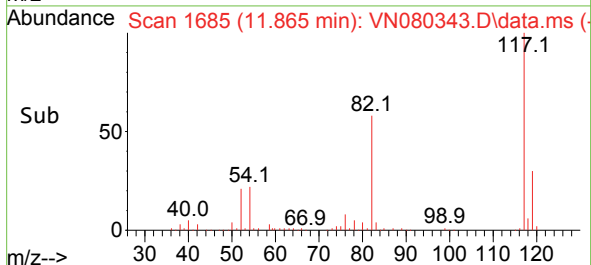
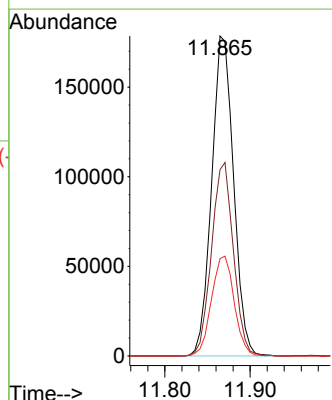
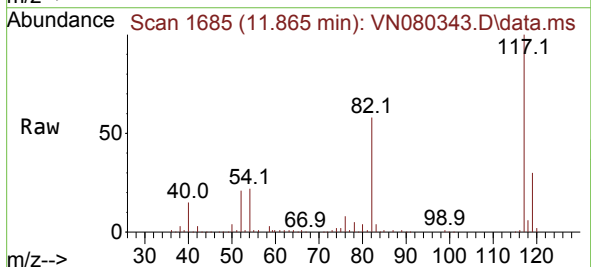
Instrument :
MSVOA_N
ClientSampleId :

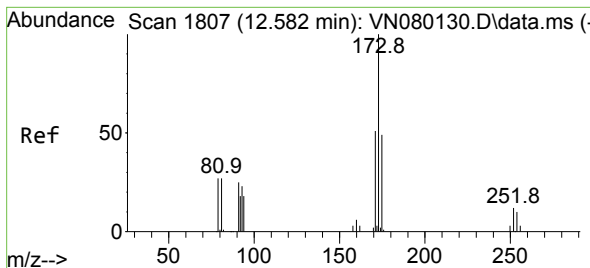
Tgt Ion: 95 Resp: 158575
Ion Ratio Lower Upper
95 100
174 77.1 0.0 143.8
176 73.0 0.0 135.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN080343.D
Acq: 04 Dec 2023 17:09

Tgt Ion: 117 Resp: 318925
Ion Ratio Lower Upper
117 100
82 58.3 44.0 66.0
119 30.4 25.6 38.4





#71

Bromoform

Concen: 0.271 ug/l

RT: 12.841 min Scan# 1807

Delta R.T. 0.259 min

Lab File: VN080343.D

Acq: 04 Dec 2023 17:09

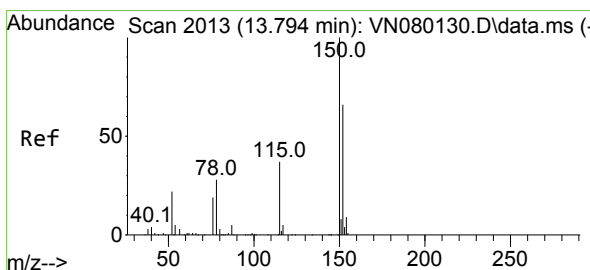
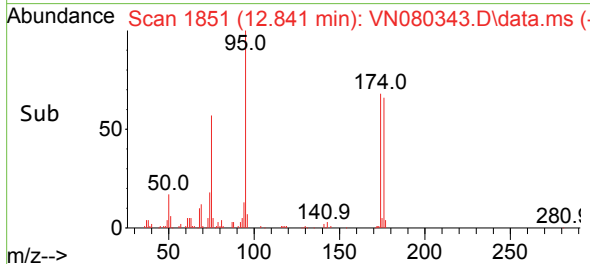
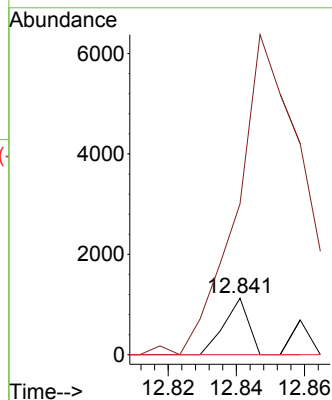
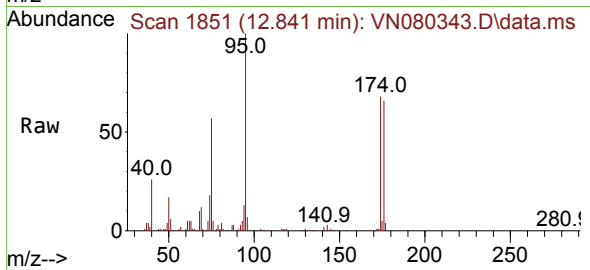
Instrument :

MSVOA_N

ClientSampleId :

Tgt Ion:173 Resp: 563

Ion	Ratio	Lower	Upper
173	100		
175	1346.0	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

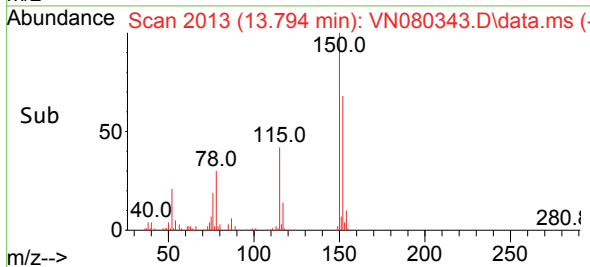
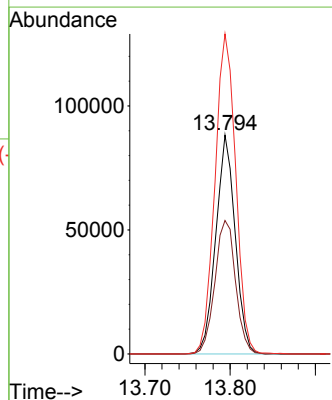
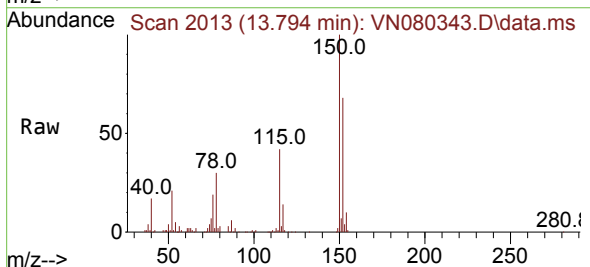
Delta R.T. -0.000 min

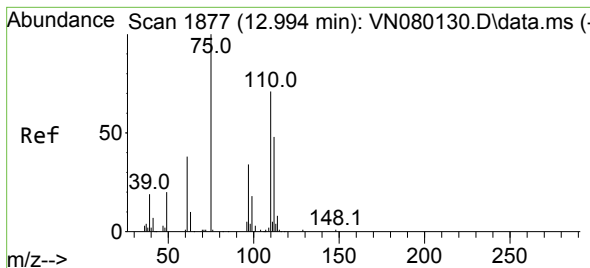
Lab File: VN080343.D

Acq: 04 Dec 2023 17:09

Tgt Ion:152 Resp: 139541

Ion	Ratio	Lower	Upper
152	100		
115	65.1	32.3	96.8
150	156.3	0.0	355.8





#76

1,2,3-Trichloropropane

Concen: 26.023 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.147 min

Lab File: VN080343.D

Acq: 04 Dec 2023 17:09

Instrument :

MSVOA_N

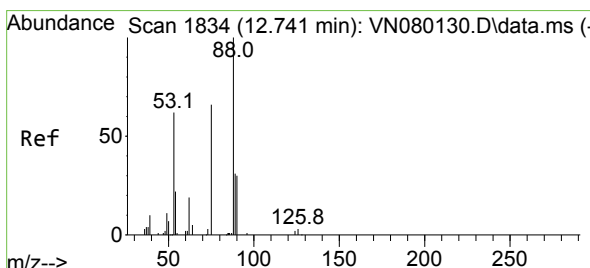
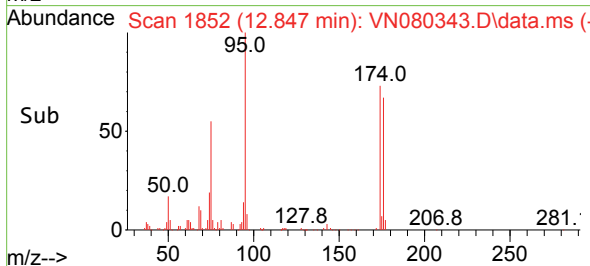
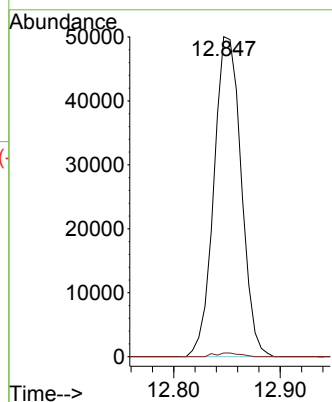
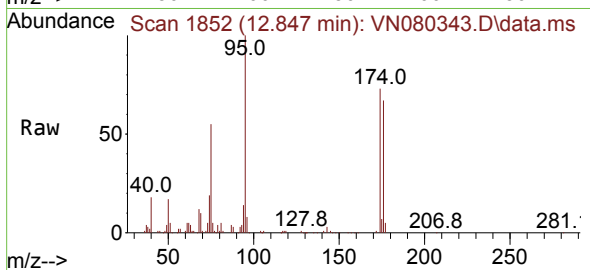
ClientSampleId :

Tgt Ion: 75 Resp: 88971

Ion Ratio Lower Upper

75 100

77 1.1 84.5 253.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 87.920 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. 0.106 min

Lab File: VN080343.D

Acq: 04 Dec 2023 17:09

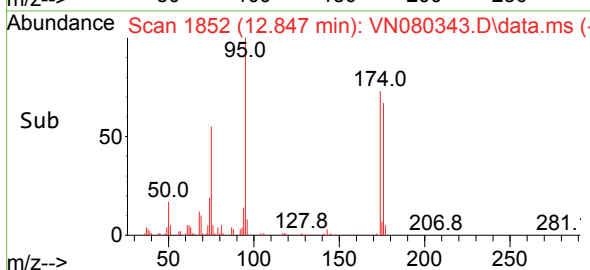
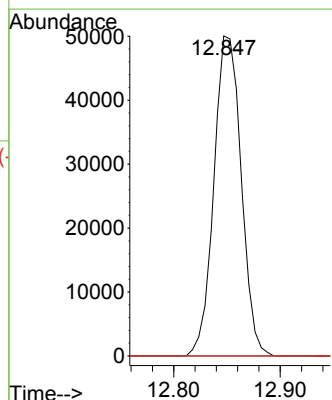
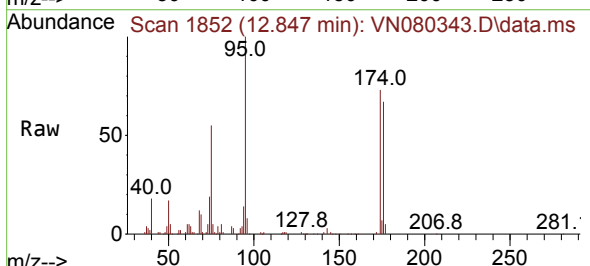
Tgt Ion: 75 Resp: 88971

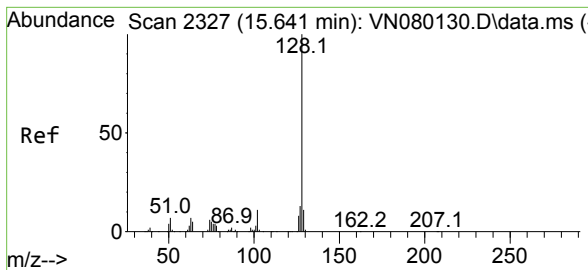
Ion Ratio Lower Upper

75 100

53 0.0 67.4 101.2#

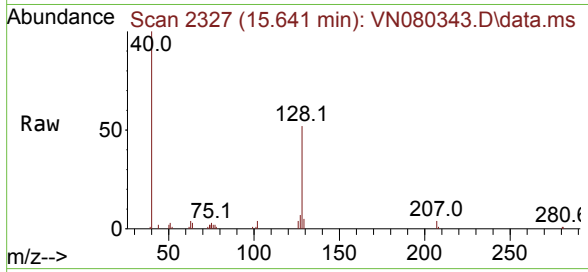
89 0.0 38.8 58.2#





#95
Naphthalene
Concen: 2.278 ug/l
RT: 15.641 min Scan# 21
Delta R.T. -0.000 min
Lab File: VN080343.D
Acq: 04 Dec 2023 17:09

Instrument :
MSVOA_N
ClientSampleId :



Tgt Ion:	128	Resp:	18107
Ion	Ratio	Lower	Upper
128	100		
127	14.2	10.0	15.0
129	11.7	8.7	13.1

