

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122123\
 Data File : VN080578.D
 Acq On : 21 Dec 2023 17:02
 Operator : JC\MD
 Sample : 05926-04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Dec 22 04:03:47 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)

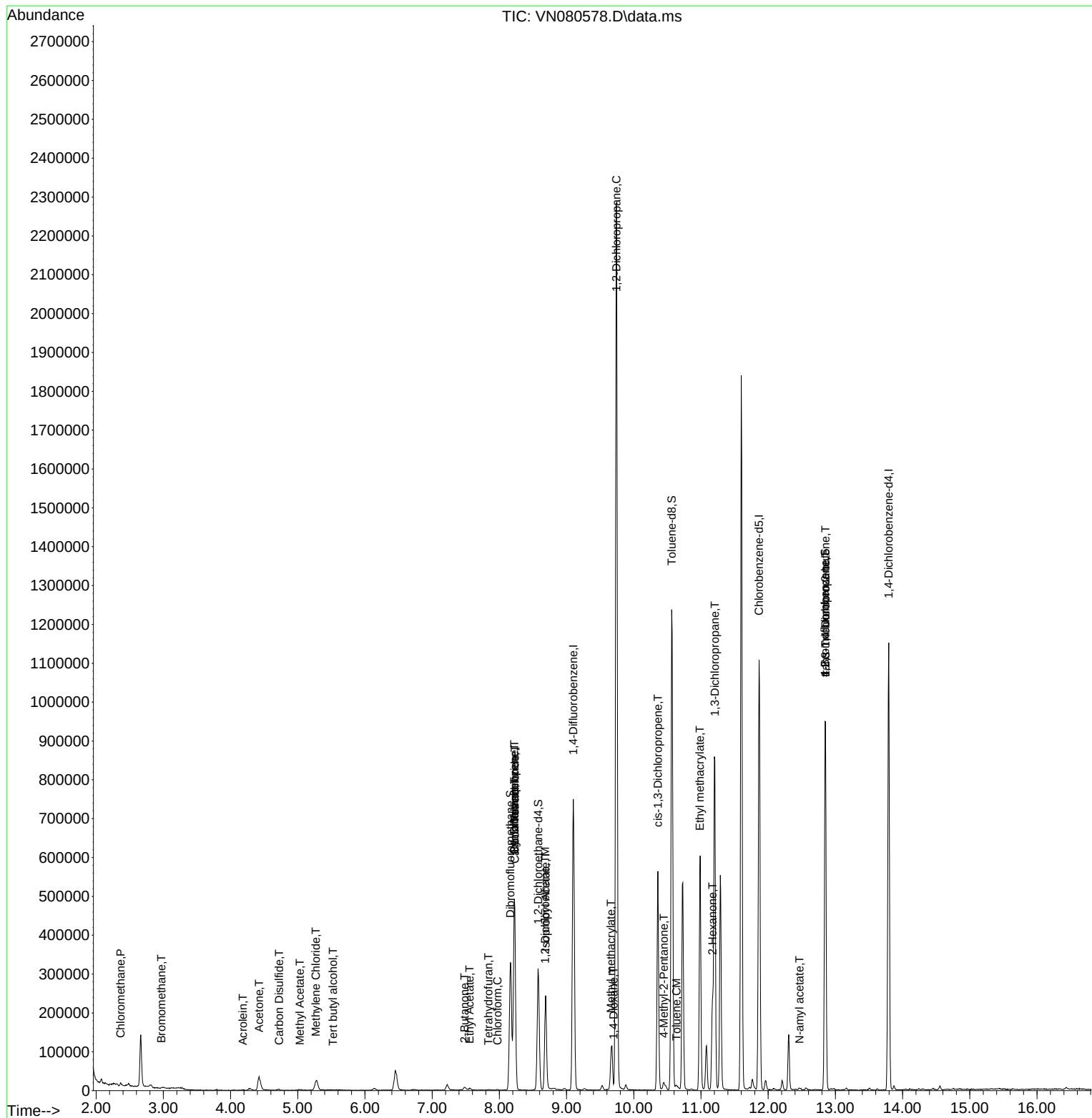
Internal Standards						
1) Pentafluorobenzene	8.224	168	359788	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	667122	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	635863	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	304174	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	251525	54.735	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 109.480%			
35) Dibromofluoromethane	8.165	113	236643	55.946	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 111.900%			
50) Toluene-d8	10.565	98	855056	54.203	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 108.400%			
62) 4-Bromofluorobenzene	12.847	95	360669	60.210	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 120.420%			
Target Compounds						
					Qvalue	
3) Chloromethane	2.365	50	8620	1.403	ug/l	98
5) Bromomethane	2.971	94	600	0.339	ug/l #	63
11) Tert butyl alcohol	5.524	59	228	0.421	ug/l #	72
13) Acrolein	4.183	56	951	1.605	ug/l	84
16) Acetone	4.424	43	65134	79.938	ug/l	92
17) Carbon Disulfide	4.724	76	3967	0.362	ug/l #	75
18) Methyl Acetate	5.030	43	3962	0.756	ug/l #	66
20) Methylene Chloride	5.271	84	20593	4.723	ug/l	95
25) 2-Butanone	7.483	43	12377	7.885	ug/l #	81
29) Tetrahydrofuran	7.836	42	504	0.448	ug/l #	56
30) Chloroform	7.971	83	1610	0.201	ug/l #	52
31) Cyclohexane	8.224	56	8507	1.361	ug/l #	7
36) 1,1-Dichloropropene	8.224	75	30579	4.421	ug/l #	47
37) Ethyl Acetate	7.559	43	6653	1.536	ug/l #	95
38) Carbon Tetrachloride	8.230	117	36533	4.421	ug/l #	17
42) 1,2-Dichloroethane	8.683	62	1910	0.258	ug/l #	73
43) Isopropyl Acetate	8.688	43	258177	33.155	ug/l #	86
45) 1,2-Dichloropropane	9.741	63	2537	0.541	ug/l #	45
48) Methyl methacrylate	9.659	41	8910	1.917	ug/l #	26
49) 1,4-Dioxane	9.700	88	56	0.795	ug/l #	30
51) 4-Methyl-2-Pentanone	10.447	43	21884	5.103	ug/l #	70
52) Toluene	10.635	92	4456	0.353	ug/l	97
54) cis-1,3-Dichloropropene	10.359	75	93547	11.205	ug/l #	65
56) Ethyl methacrylate	10.982	69	2491	0.496	ug/l #	1
57) 1,3-Dichloropropane	11.206	76	9704	1.219	ug/l #	42
59) 2-Hexanone	11.171	43	175808	55.529	ug/l #	19
74) N-amyl acetate	12.465	43	4581	0.642	ug/l #	39
76) 1,2,3-Trichloropropane	12.853	75	177072	29.181	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	177072	76.616	ug/l #	15

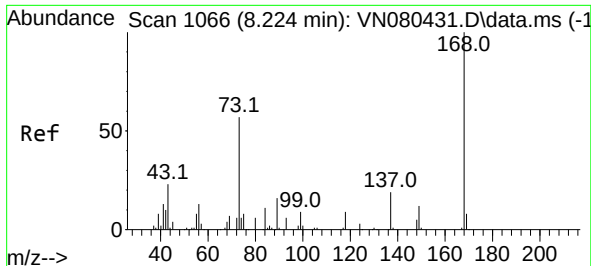
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Dec 13 01:57:14 2023
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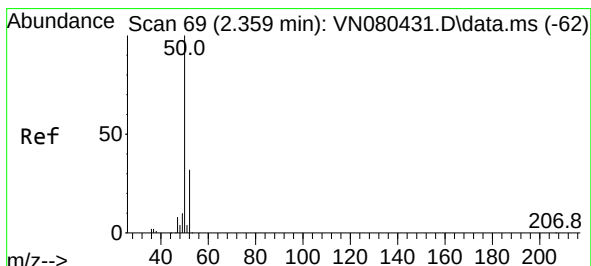
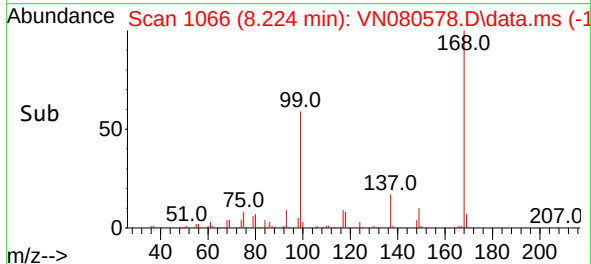
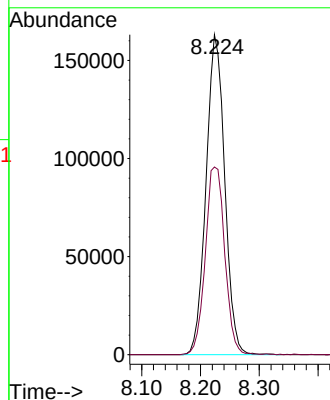
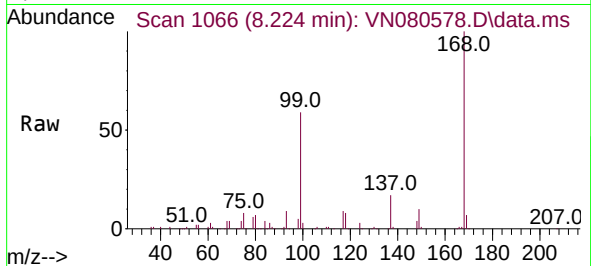




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN080578.D
Acq: 21 Dec 2023 17:02

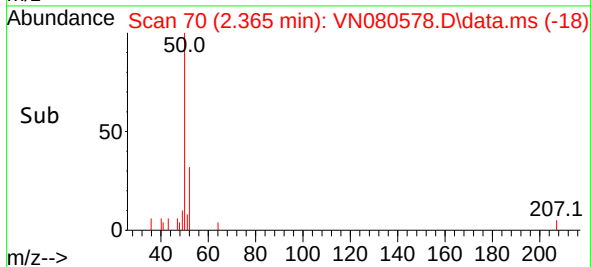
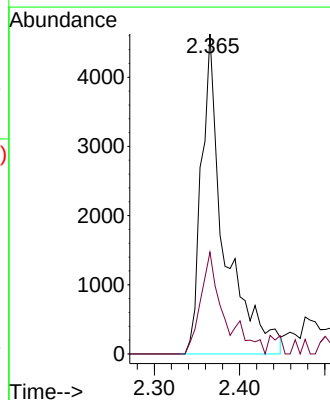
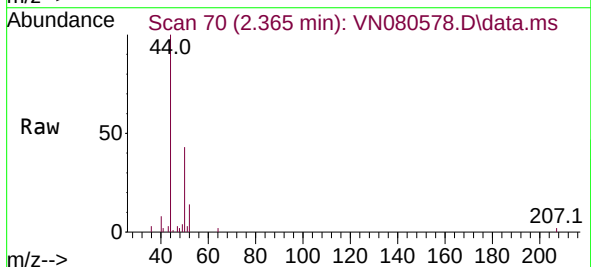
Instrument :
MSVOA_N
ClientSampleId :

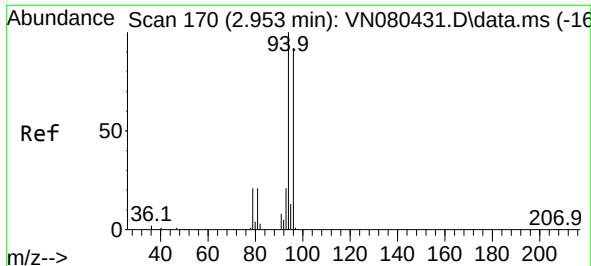
Tgt Ion:168 Resp: 359788
Ion Ratio Lower Upper
168 100
99 58.7 53.0 79.6



#3
Chloromethane
Concen: 1.403 ug/l
RT: 2.365 min Scan# 70
Delta R.T. 0.006 min
Lab File: VN080578.D
Acq: 21 Dec 2023 17:02

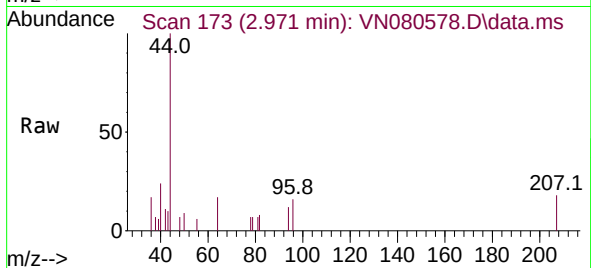
Tgt Ion: 50 Resp: 8620
Ion Ratio Lower Upper
50 100
52 31.8 26.5 39.7



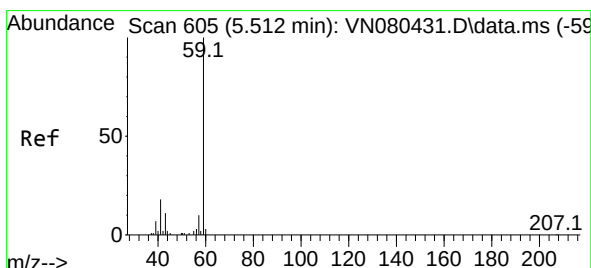
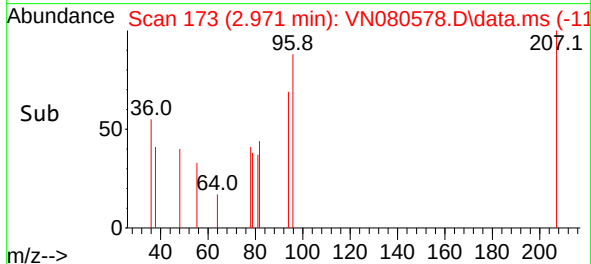
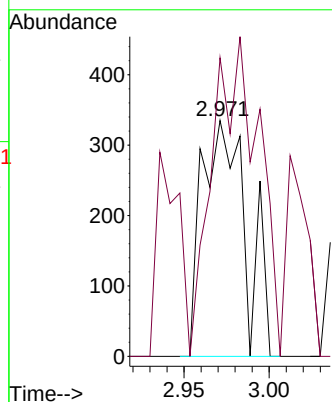


#5
Bromomethane
Concen: 0.339 ug/l
RT: 2.971 min Scan# 11
Delta R.T. 0.018 min
Lab File: VN080578.D
Acq: 21 Dec 2023 17:02

Instrument :
MSVOA_N
ClientSampleId :

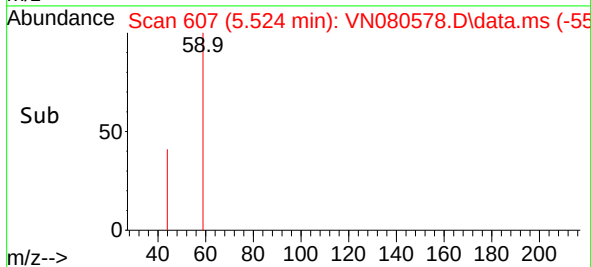
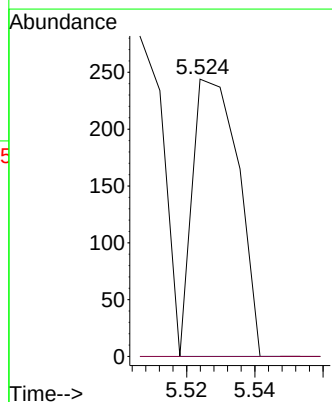
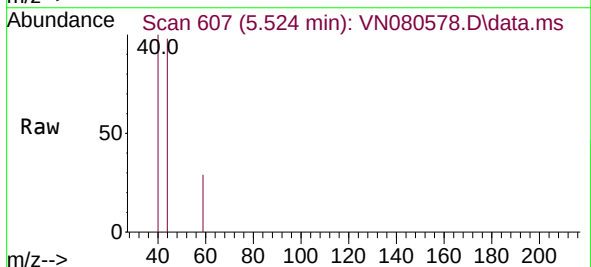


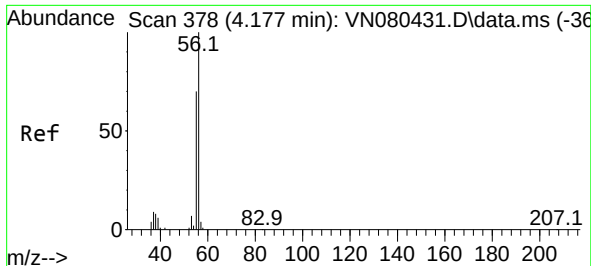
Tgt Ion: 94 Resp: 600
Ion Ratio Lower Upper
94 100
96 126.6 73.1 109.7#



#11
Tert butyl alcohol
Concen: 0.421 ug/l
RT: 5.524 min Scan# 607
Delta R.T. 0.012 min
Lab File: VN080578.D
Acq: 21 Dec 2023 17:02

Tgt Ion: 59 Resp: 228
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#

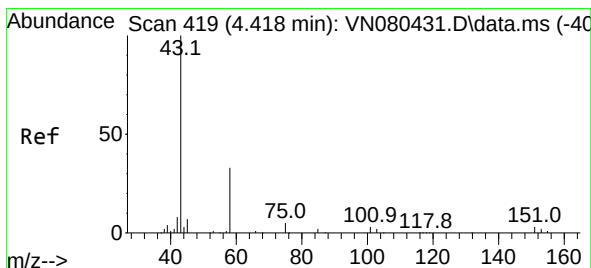
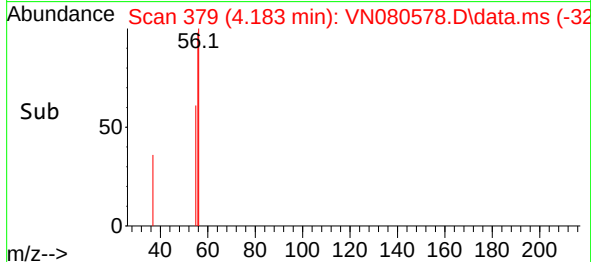
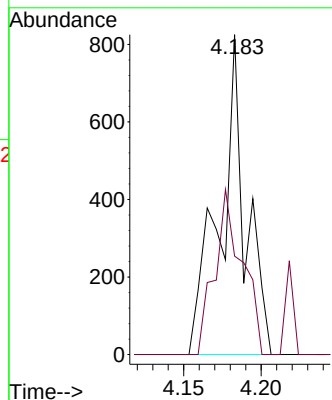
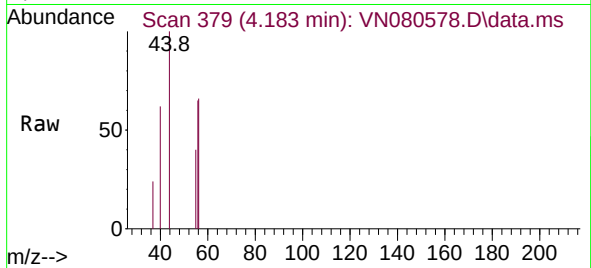




#13
Acrolein
Concen: 1.605 ug/l
RT: 4.183 min Scan# 31
Delta R.T. 0.006 min
Lab File: VN080578.D
Acq: 21 Dec 2023 17:02

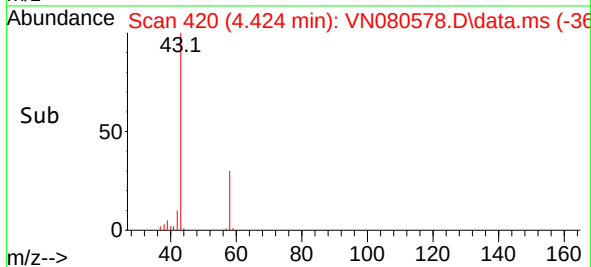
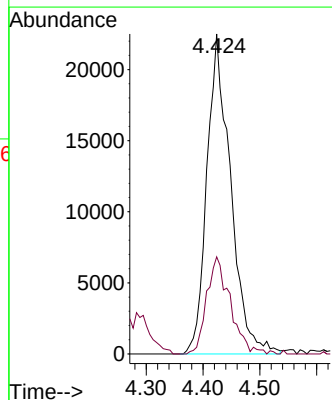
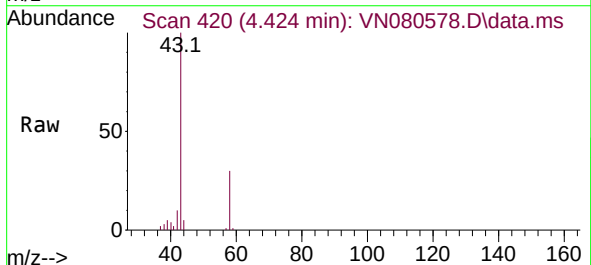
Instrument :
MSVOA_N
ClientSampleId :

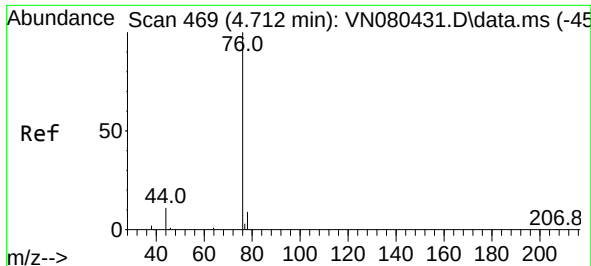
Tgt Ion: 56 Resp: 951
Ion Ratio Lower Upper
56 100
55 55.2 54.5 81.7



#16
Acetone
Concen: 79.938 ug/l
RT: 4.424 min Scan# 420
Delta R.T. 0.006 min
Lab File: VN080578.D
Acq: 21 Dec 2023 17:02

Tgt Ion: 43 Resp: 65134
Ion Ratio Lower Upper
43 100
58 30.3 28.0 42.0

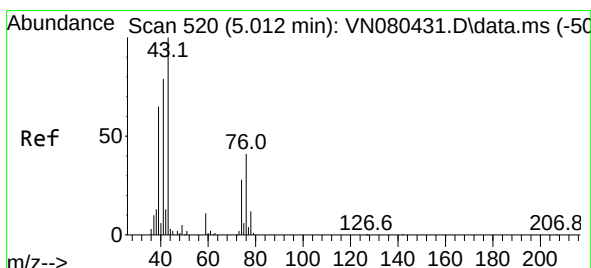
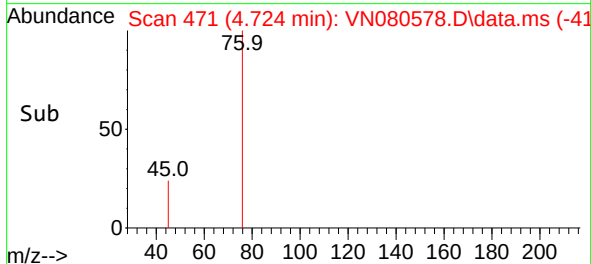
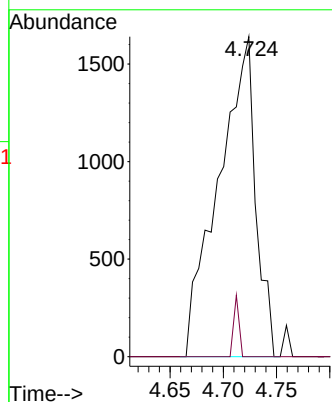
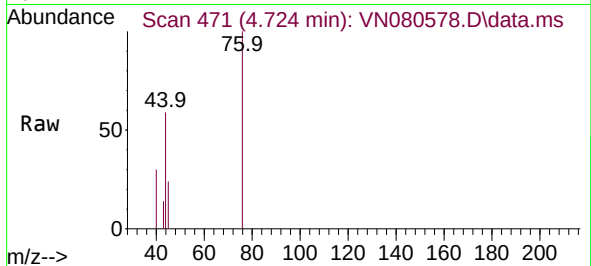




#17
Carbon Disulfide
Concen: 0.362 ug/l
RT: 4.724 min Scan# 41
Delta R.T. 0.012 min
Lab File: VN080578.D
Acq: 21 Dec 2023 17:02

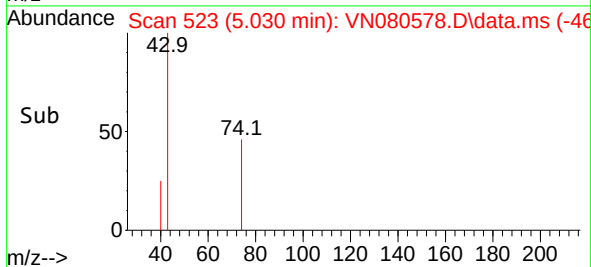
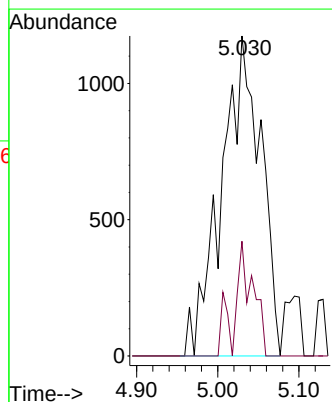
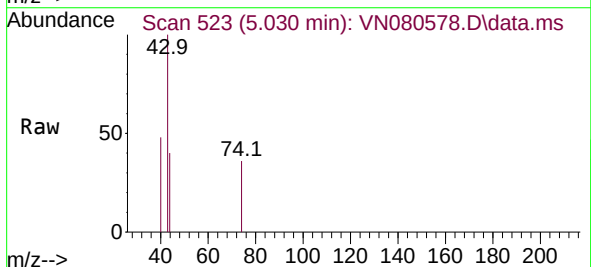
Instrument :
MSVOA_N
ClientSampleId :

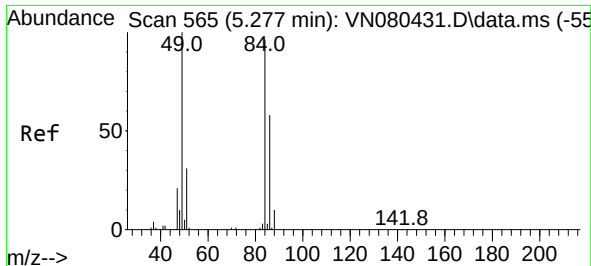
Tgt Ion: 76 Resp: 3967
Ion Ratio Lower Upper
76 100
78 0.0 7.4 11.0#



#18
Methyl Acetate
Concen: 0.756 ug/l
RT: 5.030 min Scan# 523
Delta R.T. 0.018 min
Lab File: VN080578.D
Acq: 21 Dec 2023 17:02

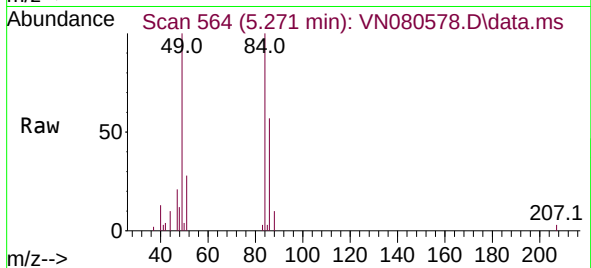
Tgt Ion: 43 Resp: 3962
Ion Ratio Lower Upper
43 100
74 13.8 26.2 39.4#



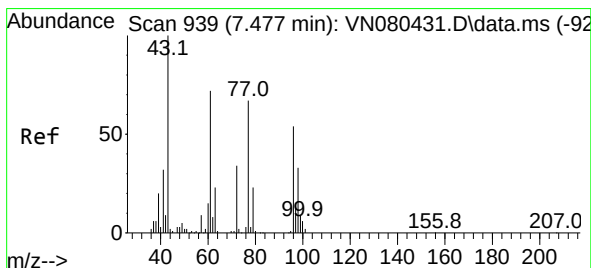
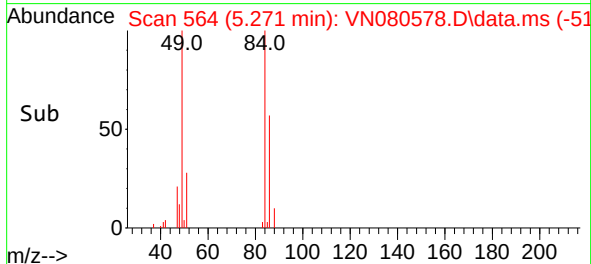
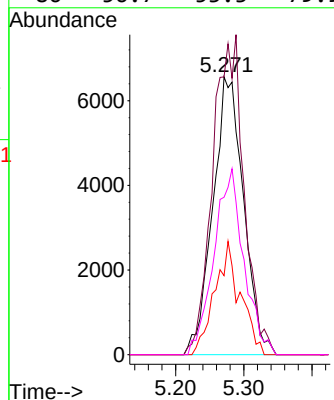


#20
Methylene Chloride
Concen: 4.723 ug/l
RT: 5.271 min Scan# 51
Delta R.T. -0.006 min
Lab File: VN080578.D
Acq: 21 Dec 2023 17:02

Instrument :
MSVOA_N
ClientSampleId :

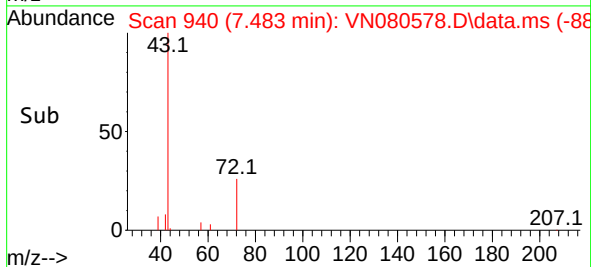
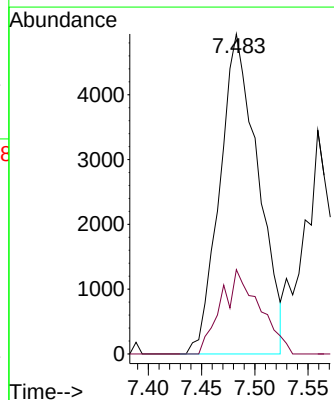
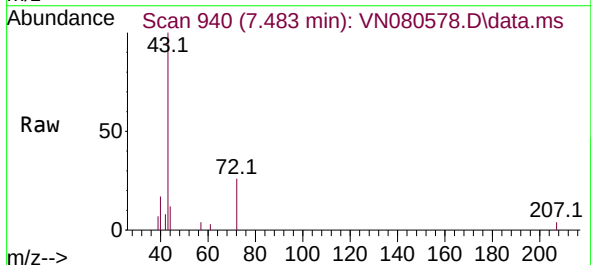


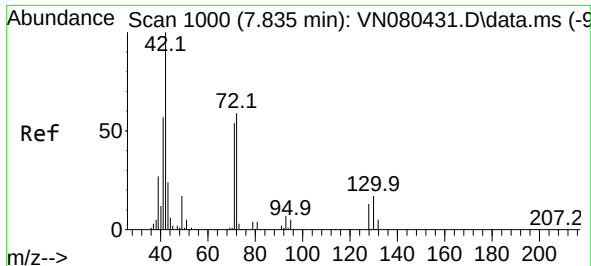
Tgt Ion:	84	Resp:	20593
Ion	Ratio	Lower	Upper
84	100		
49	100.0	79.7	119.5
51	28.5	25.2	37.8
86	56.7	53.3	79.9



#25
2-Butanone
Concen: 7.885 ug/l
RT: 7.483 min Scan# 940
Delta R.T. 0.006 min
Lab File: VN080578.D
Acq: 21 Dec 2023 17:02

Tgt Ion:	43	Resp:	12377
Ion	Ratio	Lower	Upper
43	100		
72	26.4	30.2	45.2#





#29

Tetrahydrofuran

Concen: 0.448 ug/l

RT: 7.836 min Scan# 1000

Delta R.T. 0.000 min

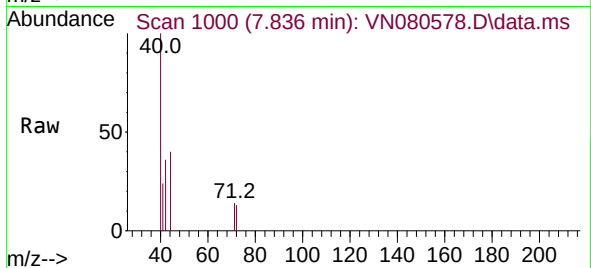
Lab File: VN080578.D

Acq: 21 Dec 2023 17:02

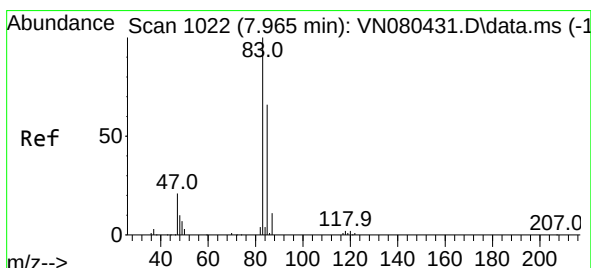
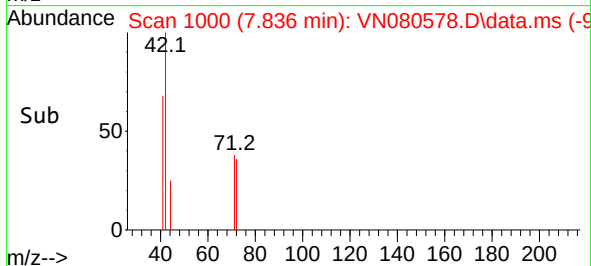
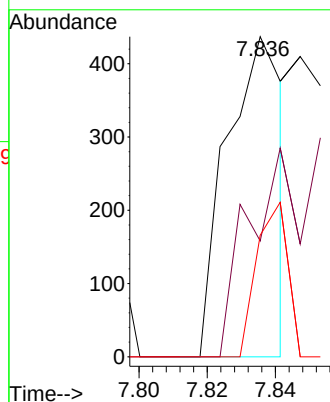
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	42	Resp:	504
Ion	Ratio	Lower	Upper
42	100		
72	96.4	49.8	74.6#
71	26.4	47.4	71.2#



#30

Chloroform

Concen: 0.201 ug/l

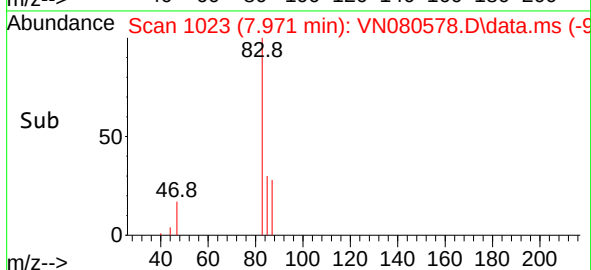
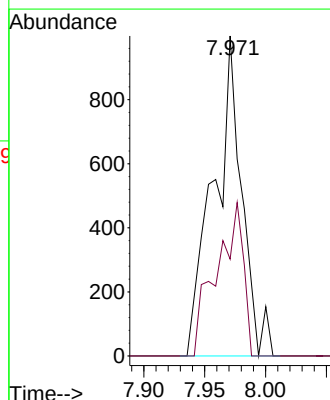
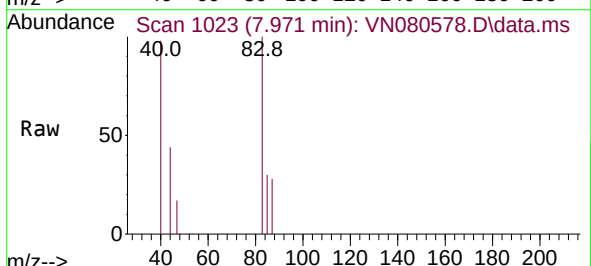
RT: 7.971 min Scan# 1023

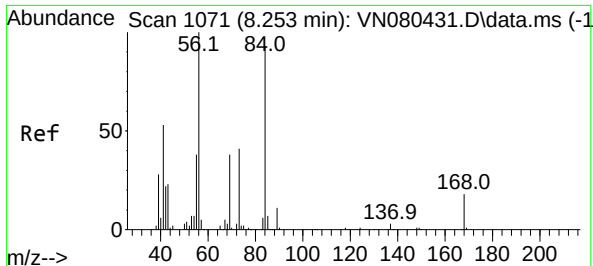
Delta R.T. 0.006 min

Lab File: VN080578.D

Acq: 21 Dec 2023 17:02

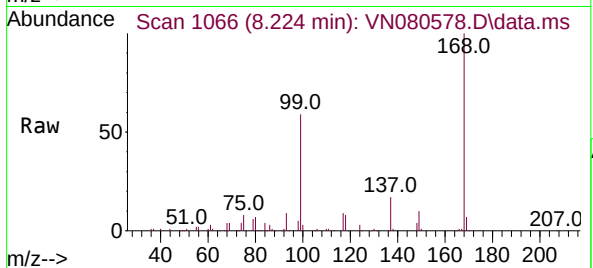
Tgt Ion:	83	Resp:	1610
Ion	Ratio	Lower	Upper
83	100		
85	30.2	55.4	83.0#



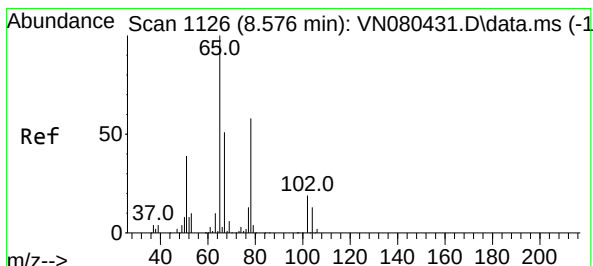
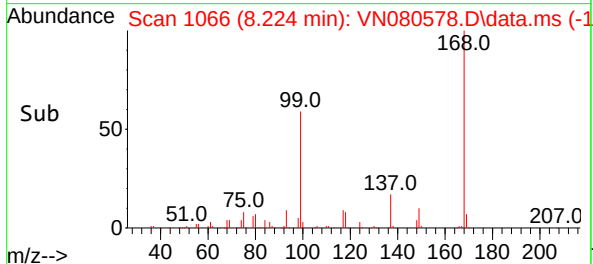
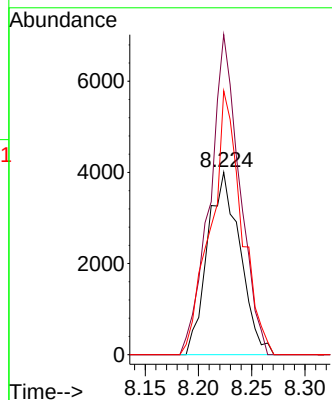


#31
Cyclohexane
Concen: 1.361 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.029 min
Lab File: VN080578.D
Acq: 21 Dec 2023 17:02

Instrument :
MSVOA_N
ClientSampleId :

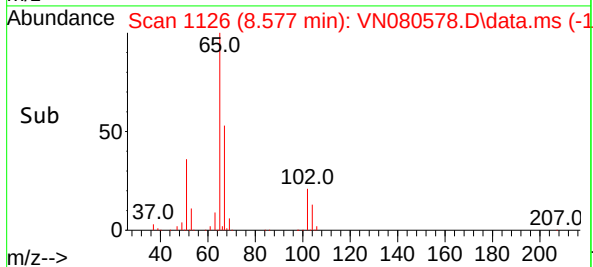
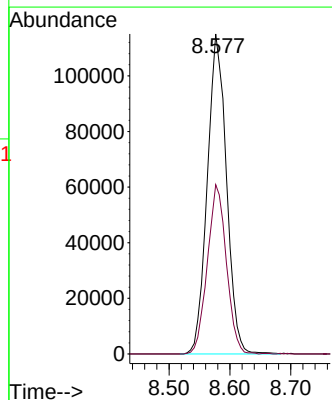
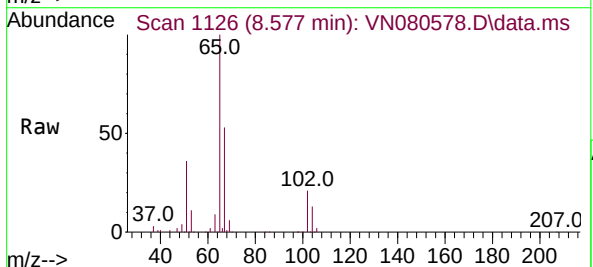


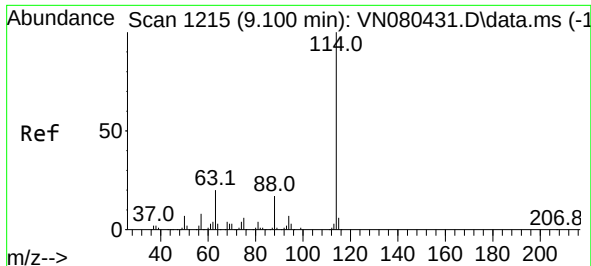
Tgt Ion: 56 Resp: 8507
Ion Ratio Lower Upper
56 100
69 175.4 26.8 40.2#
84 144.6 81.8 122.6#



#33
1,2-Dichloroethane-d4
Concen: 54.735 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. 0.000 min
Lab File: VN080578.D
Acq: 21 Dec 2023 17:02

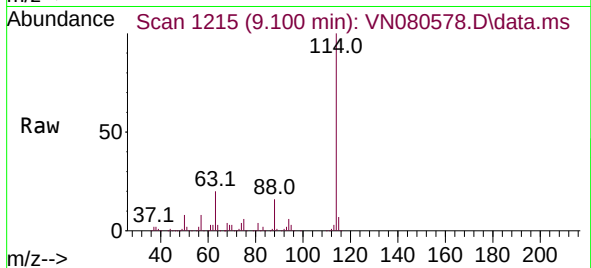
Tgt Ion: 65 Resp: 251525
Ion Ratio Lower Upper
65 100
67 52.4 0.0 106.6



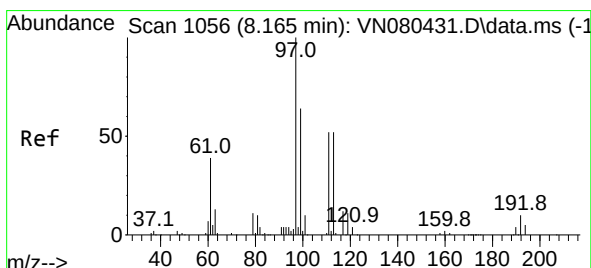
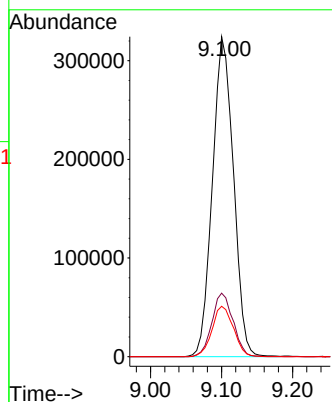
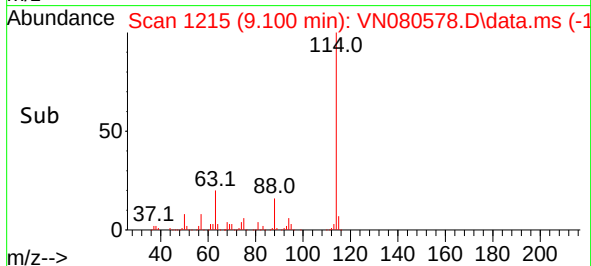


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN080578.D
Acq: 21 Dec 2023 17:02

Instrument :
MSVOA_N
ClientSampleId :

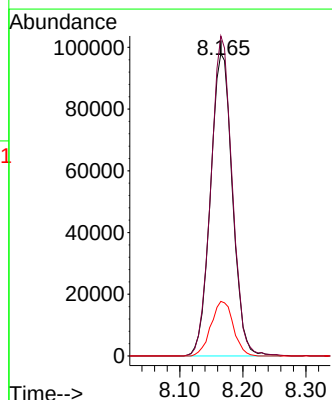
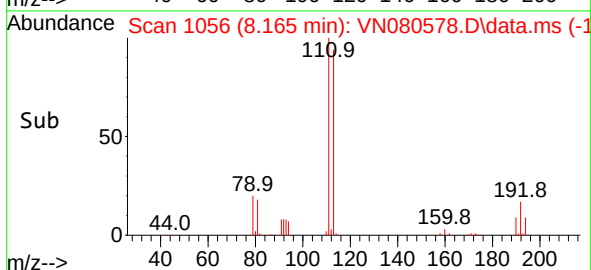
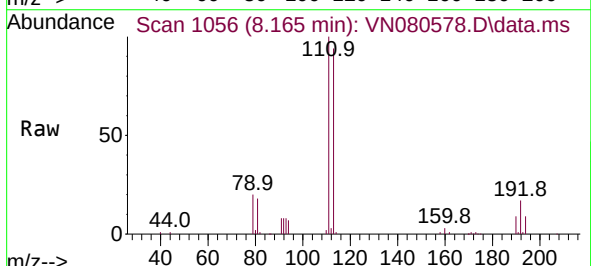


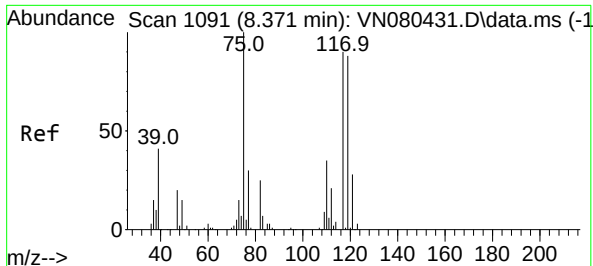
Tgt Ion:114 Resp: 667122
Ion Ratio Lower Upper
114 100
63 19.9 0.0 36.4
88 15.7 0.0 30.6



#35
Dibromofluoromethane
Concen: 55.946 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VN080578.D
Acq: 21 Dec 2023 17:02

Tgt Ion:113 Resp: 236643
Ion Ratio Lower Upper
113 100
111 103.0 82.6 123.8
192 18.4 12.7 19.1





#36

1,1-Dichloropropene

Concen: 4.421 ug/l

RT: 8.224 min Scan# 1

Delta R.T. -0.147 min

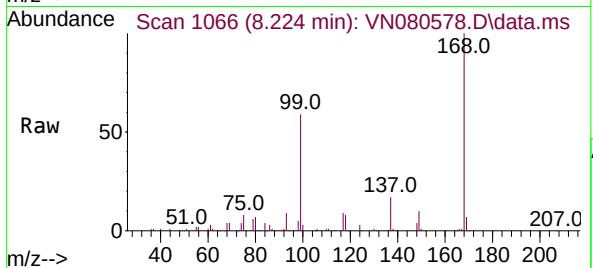
Lab File: VN080578.D

Acq: 21 Dec 2023 17:02

Instrument :

MSVOA_N

ClientSampleId :



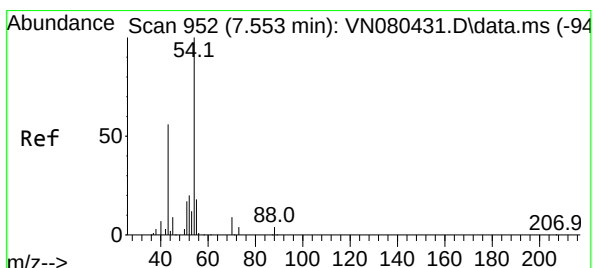
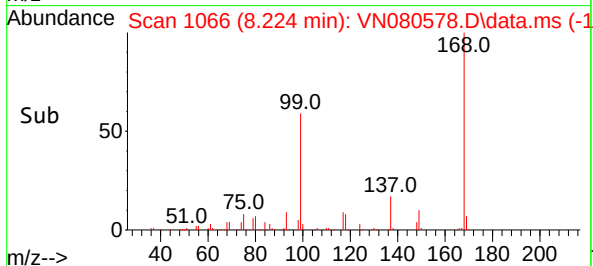
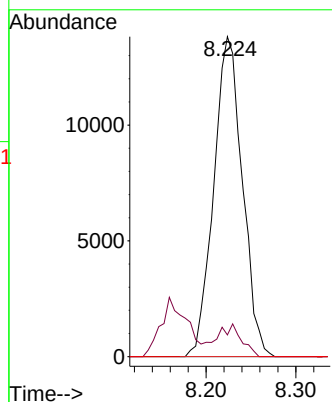
Tgt Ion: 75 Resp: 30579

Ion Ratio Lower Upper

75 100

110 7.7 19.1 57.3#

77 0.0 25.0 37.4#



#37

Ethyl Acetate

Concen: 1.536 ug/l

RT: 7.559 min Scan# 953

Delta R.T. 0.006 min

Lab File: VN080578.D

Acq: 21 Dec 2023 17:02

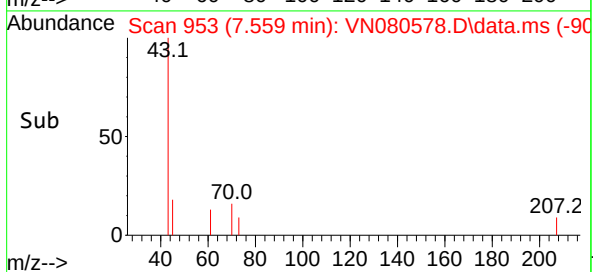
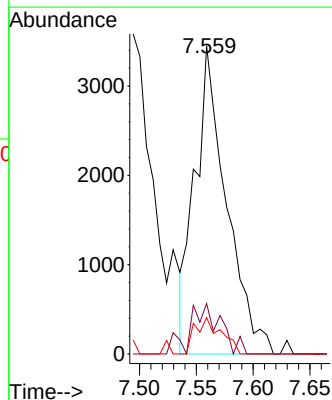
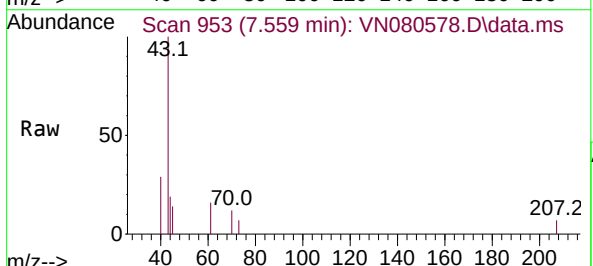
Tgt Ion: 43 Resp: 6653

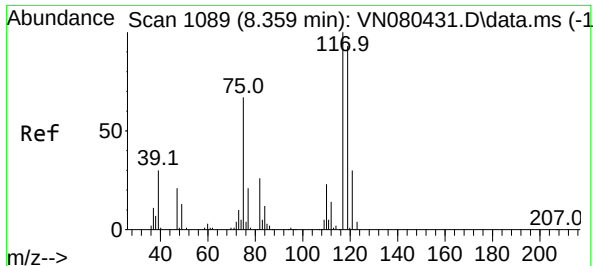
Ion Ratio Lower Upper

43 100

61 16.1 13.2 19.8

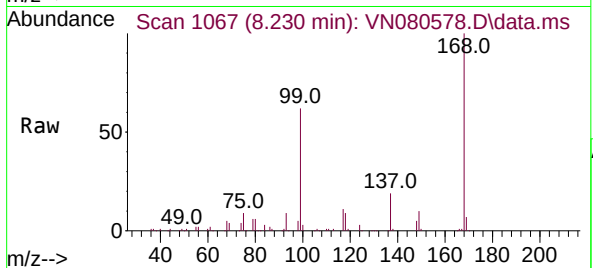
70 9.8 11.3 16.9#



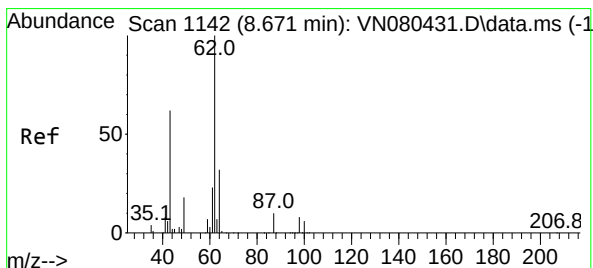
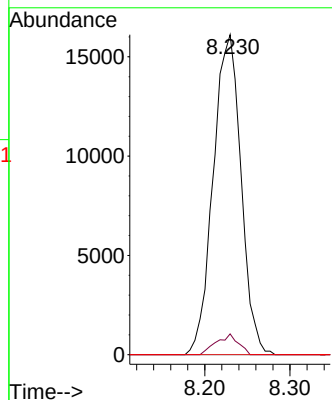
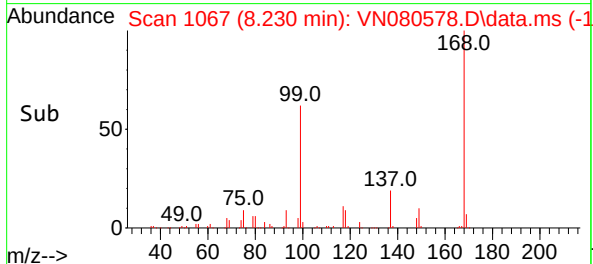


#38
Carbon Tetrachloride
Concen: 4.421 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.129 min
Lab File: VN080578.D
Acq: 21 Dec 2023 17:02

Instrument :
MSVOA_N
ClientSampleId :

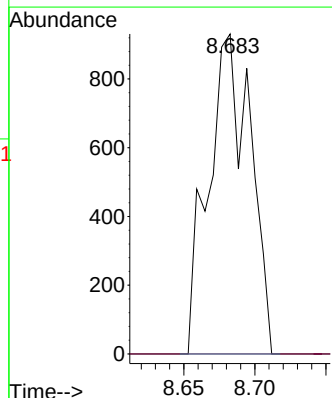
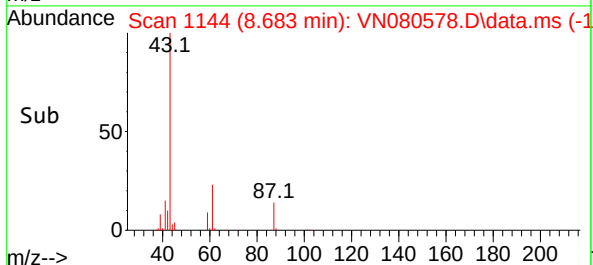
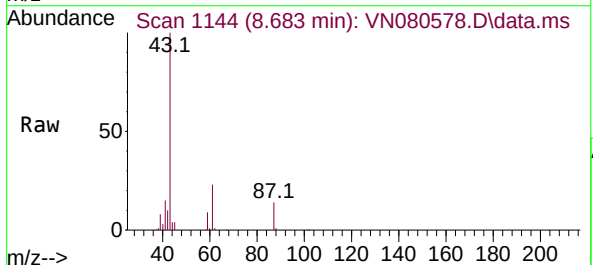


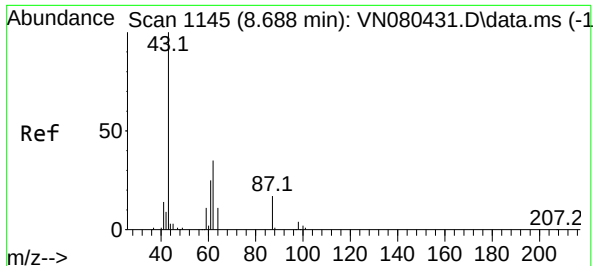
Tgt Ion:117 Resp: 36533
Ion Ratio Lower Upper
117 100
119 6.5 77.3 115.9#
121 0.0 23.3 34.9#



#42
1,2-Dichloroethane
Concen: 0.258 ug/l
RT: 8.683 min Scan# 1144
Delta R.T. 0.012 min
Lab File: VN080578.D
Acq: 21 Dec 2023 17:02

Tgt Ion: 62 Resp: 1910
Ion Ratio Lower Upper
62 100
98 0.0 0.0 19.8





#43

Isopropyl Acetate

Concen: 33.155 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. 0.000 min

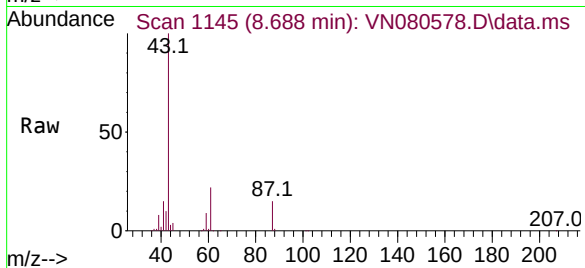
Lab File: VN080578.D

Acq: 21 Dec 2023 17:02

Instrument :

MSVOA_N

ClientSampleId :



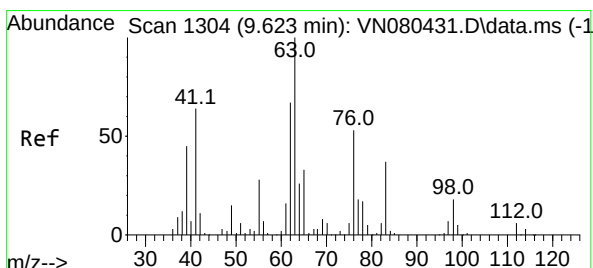
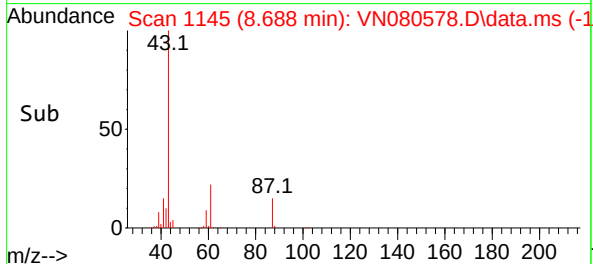
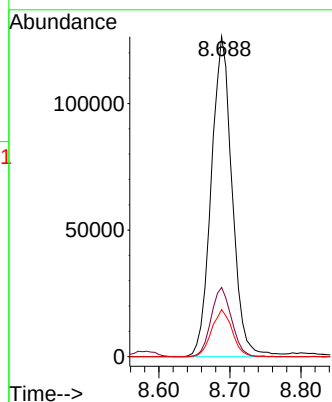
Tgt Ion: 43 Resp: 258177

Ion Ratio Lower Upper

43 100

61 21.2 24.7 37.1#

87 14.4 14.6 21.8#



#45

1,2-Dichloropropane

Concen: 0.541 ug/l

RT: 9.741 min Scan# 1324

Delta R.T. 0.118 min

Lab File: VN080578.D

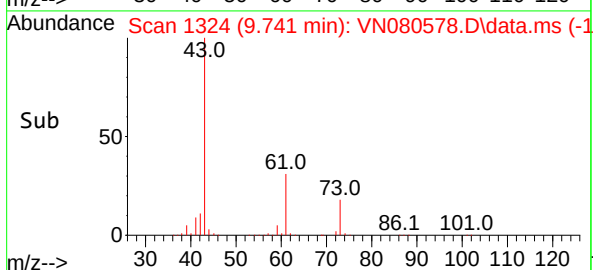
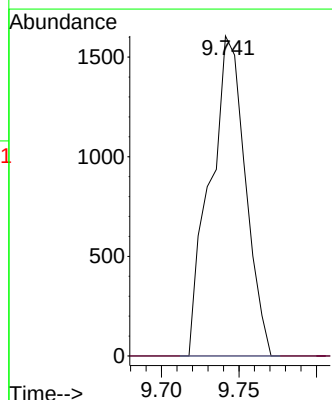
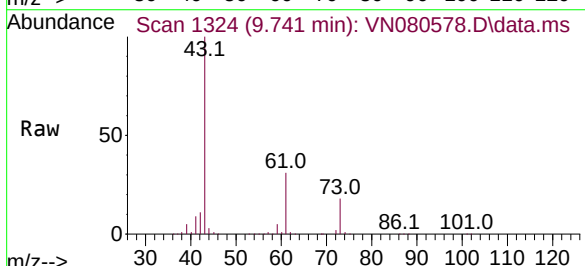
Acq: 21 Dec 2023 17:02

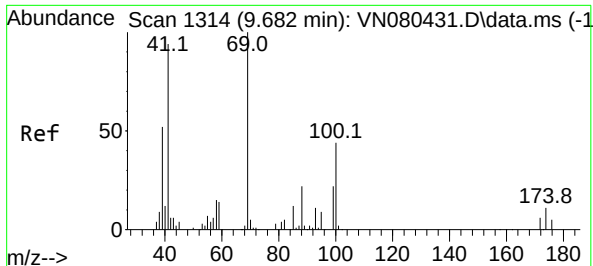
Tgt Ion: 63 Resp: 2537

Ion Ratio Lower Upper

63 100

65 0.0 23.9 35.9#

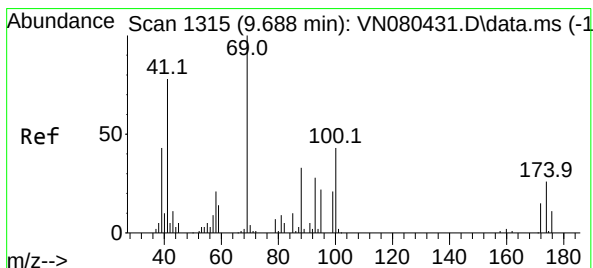
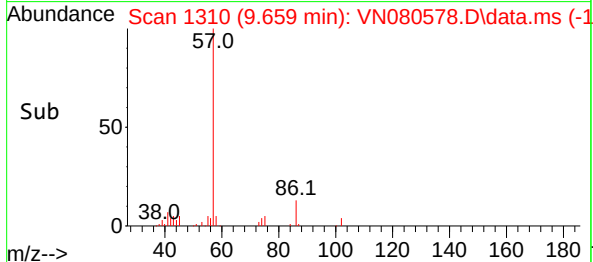
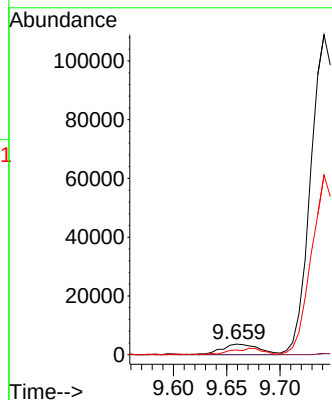
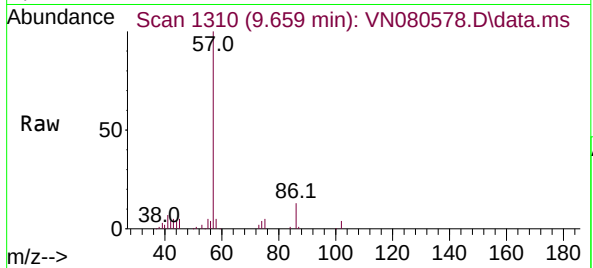




#48
Methyl methacrylate
Concen: 1.917 ug/l
RT: 9.659 min Scan# 11
Delta R.T. -0.023 min
Lab File: VN080578.D
Acq: 21 Dec 2023 17:02

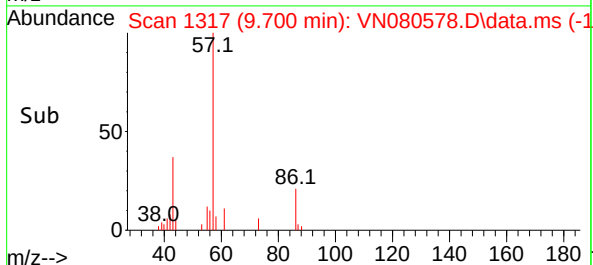
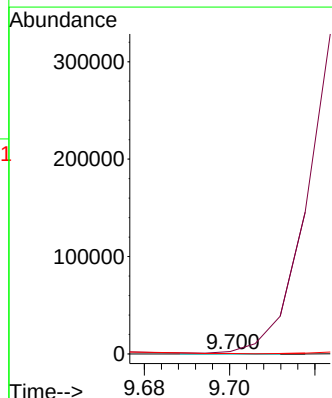
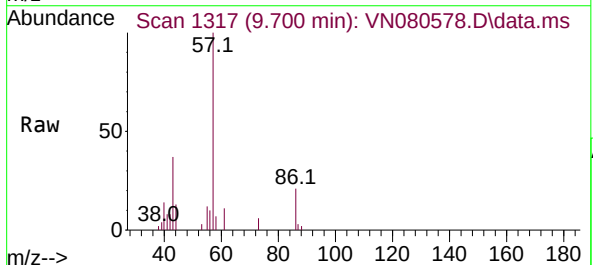
Instrument :
MSVOA_N
ClientSampleId :

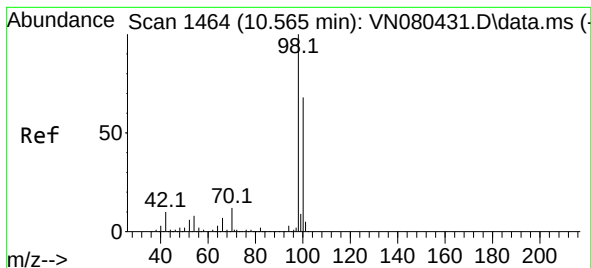
Tgt Ion: 41 Resp: 8910
Ion Ratio Lower Upper
41 100
69 0.0 90.4 135.6#
39 50.3 54.6 81.8#



#49
1,4-Dioxane
Concen: 0.795 ug/l
RT: 9.700 min Scan# 1317
Delta R.T. 0.012 min
Lab File: VN080578.D
Acq: 21 Dec 2023 17:02

Tgt Ion: 88 Resp: 56
Ion Ratio Lower Upper
88 100
43 0.0 17.0 25.6#
58 0.0 47.0 70.4#

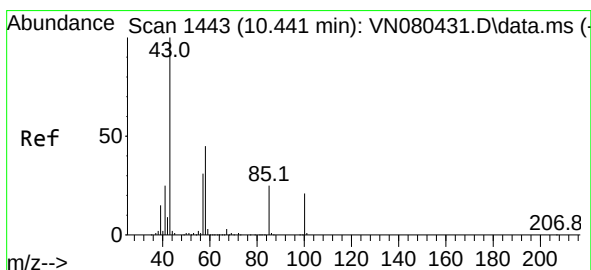
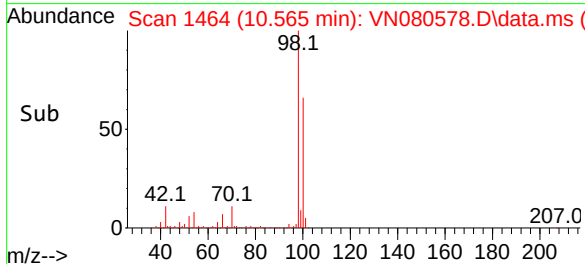
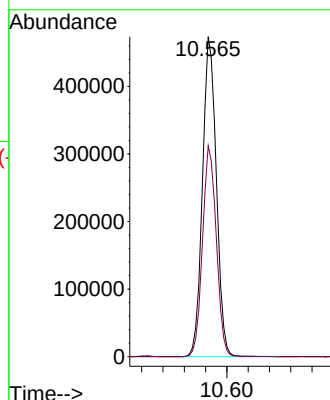
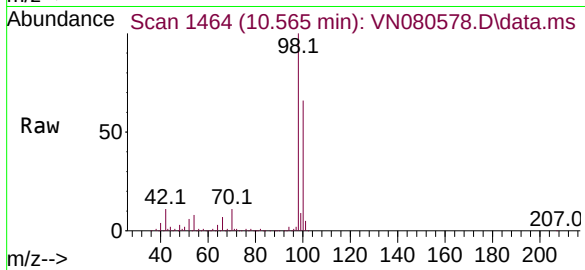




#50
Toluene-d8
Concen: 54.203 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN080578.D
Acq: 21 Dec 2023 17:02

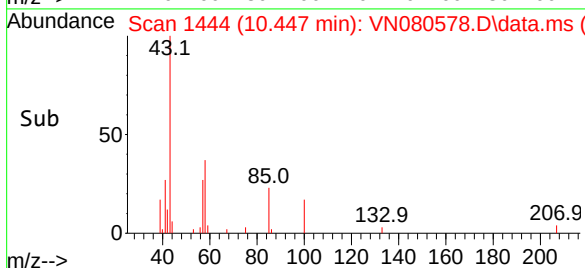
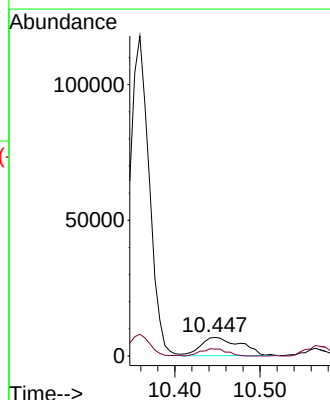
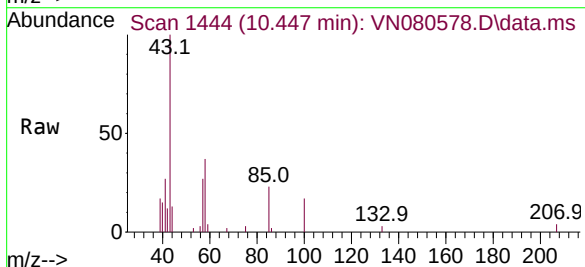
Instrument :
MSVOA_N
ClientSampleId :

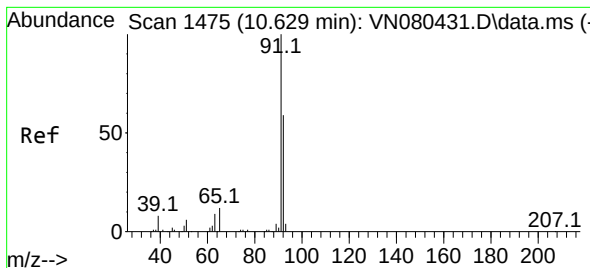
Tgt Ion: 98 Resp: 855056
Ion Ratio Lower Upper
98 100
100 65.6 52.0 78.0



#51
4-Methyl-2-Pentanone
Concen: 5.103 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. 0.006 min
Lab File: VN080578.D
Acq: 21 Dec 2023 17:02

Tgt Ion: 43 Resp: 21884
Ion Ratio Lower Upper
43 100
58 25.8 36.6 54.8#





#52

Toluene

Concen: 0.353 ug/l

RT: 10.635 min Scan# 1475

Delta R.T. 0.006 min

Lab File: VN080578.D

Acq: 21 Dec 2023 17:02

Instrument :

MSVOA_N

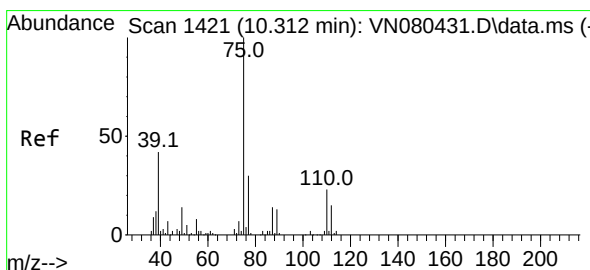
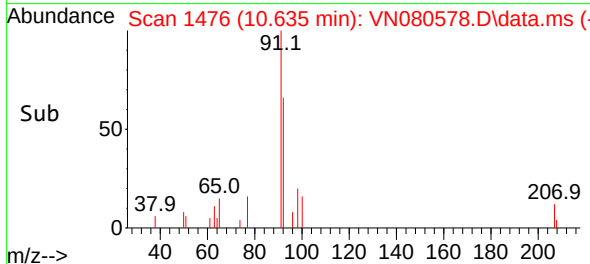
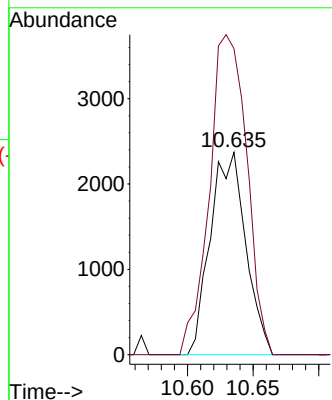
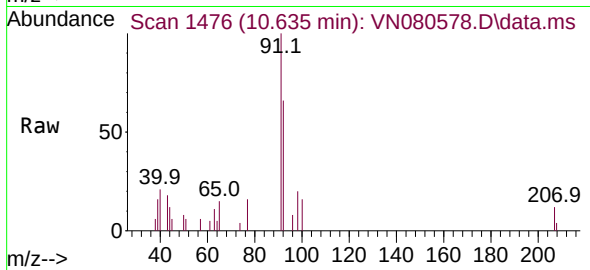
ClientSampleId :

Tgt Ion: 92 Resp: 4456

Ion Ratio Lower Upper

92 100

91 167.2 137.4 206.0



#54

cis-1,3-Dichloropropene

Concen: 11.205 ug/l

RT: 10.359 min Scan# 1429

Delta R.T. 0.047 min

Lab File: VN080578.D

Acq: 21 Dec 2023 17:02

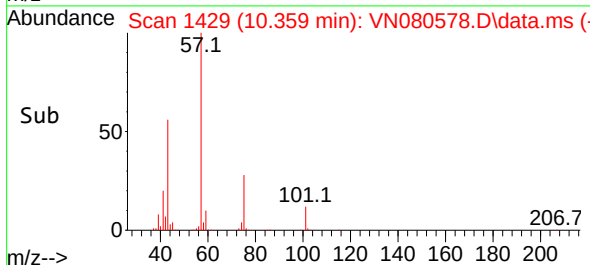
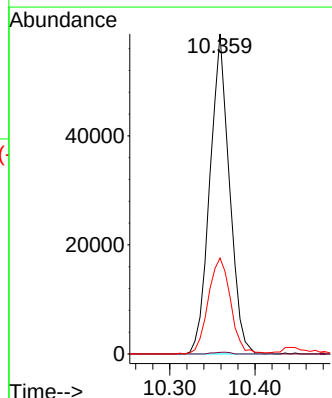
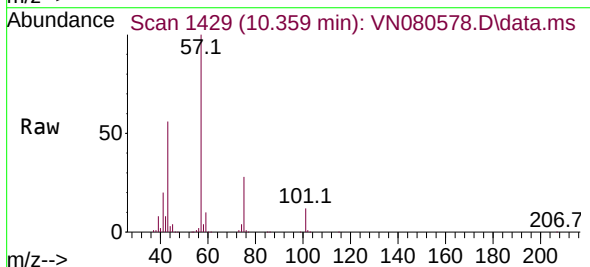
Tgt Ion: 75 Resp: 93547

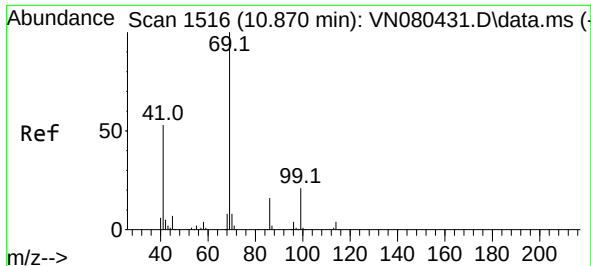
Ion Ratio Lower Upper

75 100

77 0.5 26.1 39.1#

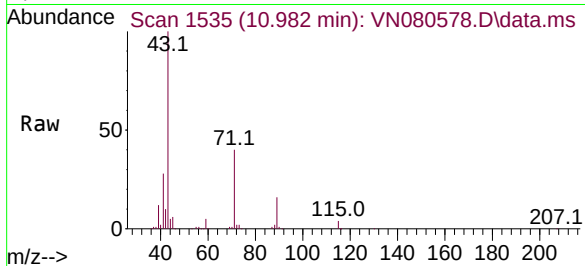
39 29.7 31.6 47.4#



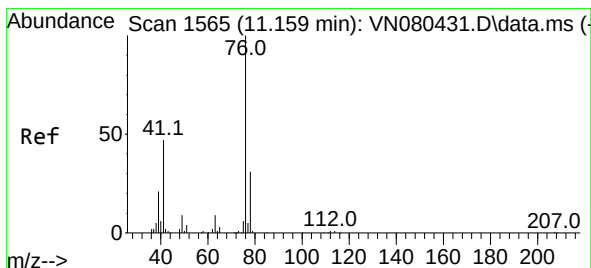
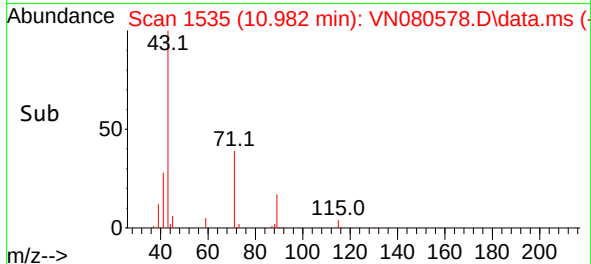
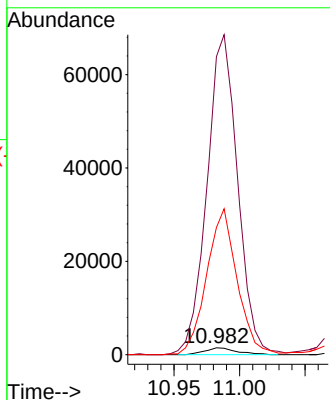


#56
Ethyl methacrylate
Concen: 0.496 ug/l
RT: 10.982 min Scan# 1535
Delta R.T. 0.112 min
Lab File: VN080578.D
Acq: 21 Dec 2023 17:02

Instrument :
MSVOA_N
ClientSampleId :

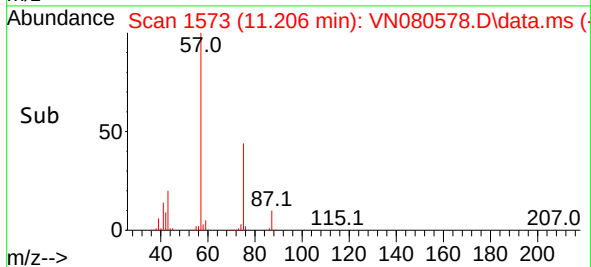
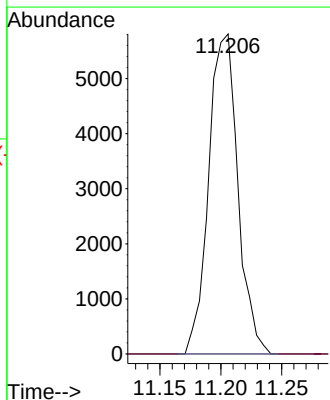
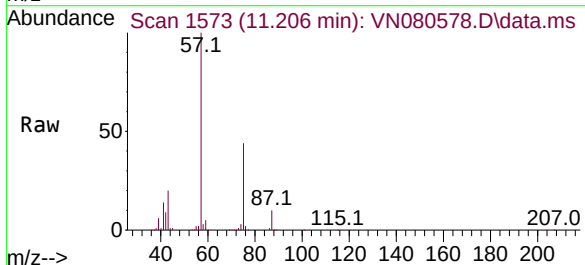


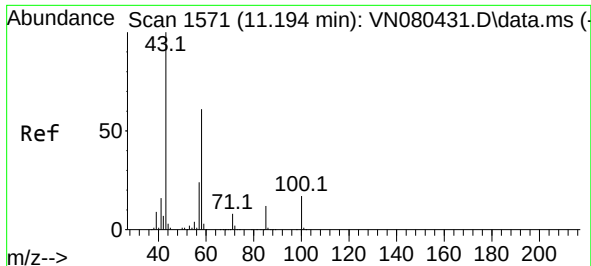
Tgt Ion: 69 Resp: 2491
Ion Ratio Lower Upper
69 100
41 4486.4 39.6 59.4#
39 2028.5 28.6 43.0#



#57
1,3-Dichloropropane
Concen: 1.219 ug/l
RT: 11.206 min Scan# 1573
Delta R.T. 0.047 min
Lab File: VN080578.D
Acq: 21 Dec 2023 17:02

Tgt Ion: 76 Resp: 9704
Ion Ratio Lower Upper
76 100
78 0.0 26.1 39.1#

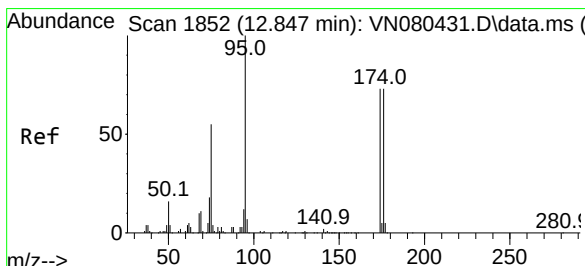
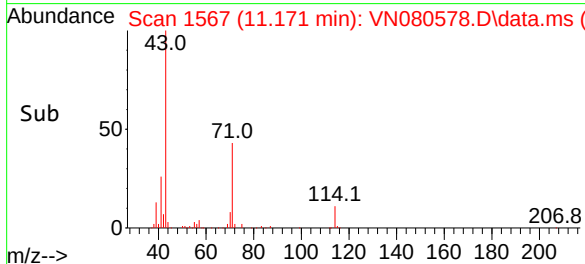
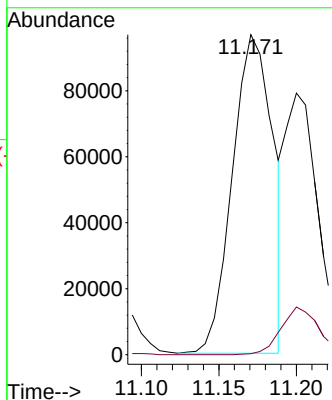
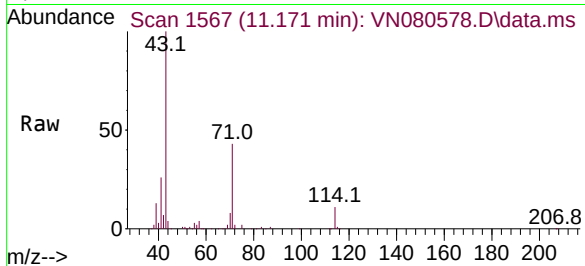




#59
2-Hexanone
Concen: 55.529 ug/l
RT: 11.171 min Scan# 111
Delta R.T. -0.023 min
Lab File: VN080578.D
Acq: 21 Dec 2023 17:02

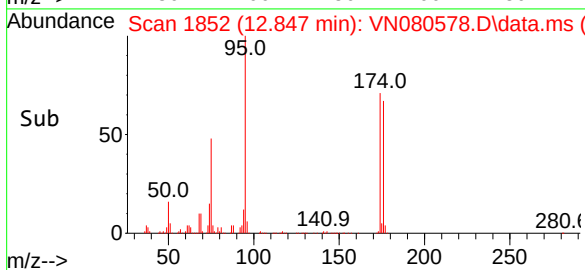
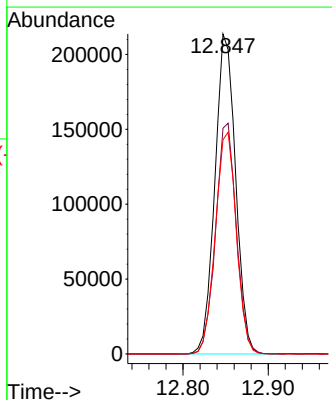
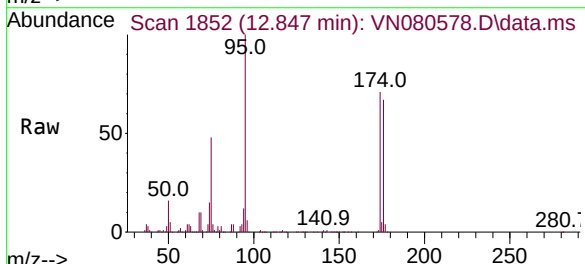
Instrument :
MSVOA_N
ClientSampleId :

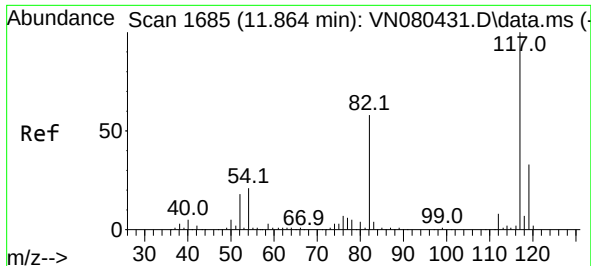
Tgt Ion: 43 Resp: 175808
Ion Ratio Lower Upper
43 100
58 0.0 31.7 95.1#



#62
4-Bromofluorobenzene
Concen: 60.210 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN080578.D
Acq: 21 Dec 2023 17:02

Tgt Ion: 95 Resp: 360669
Ion Ratio Lower Upper
95 100
174 72.0 0.0 143.8
176 70.3 0.0 135.8

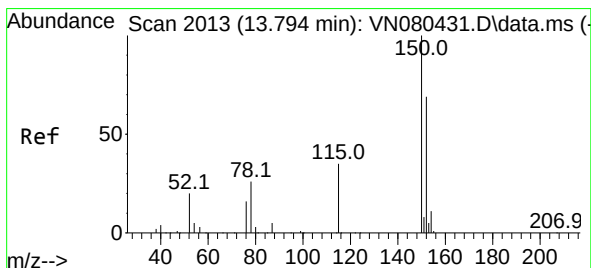
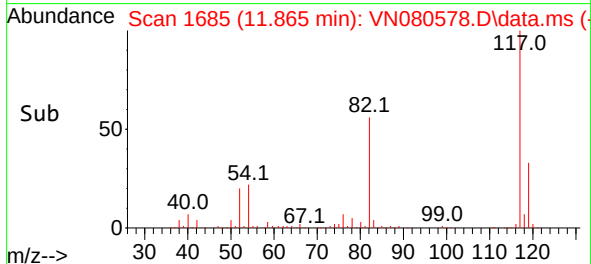
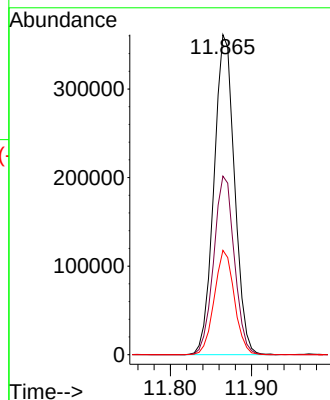
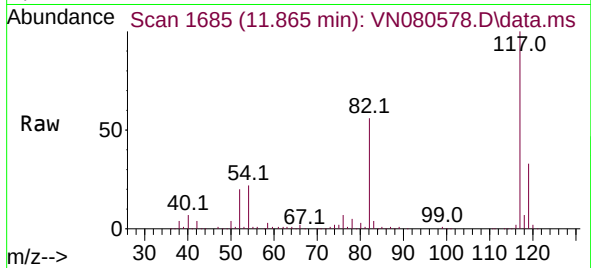




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN080578.D
Acq: 21 Dec 2023 17:02

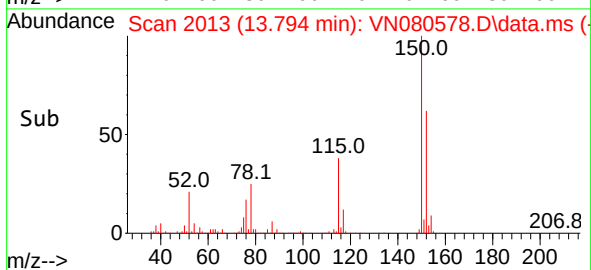
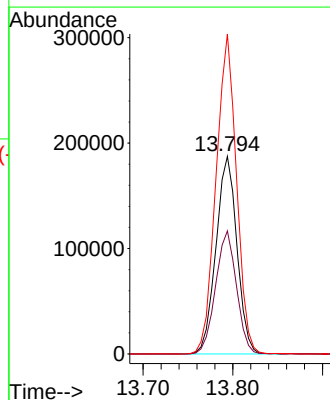
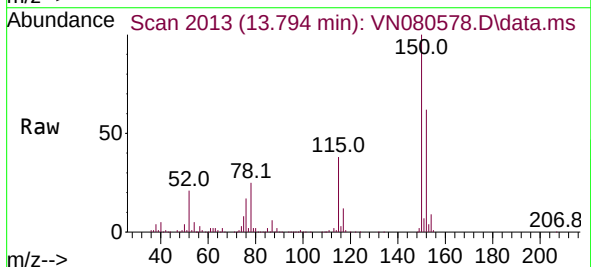
Instrument :
MSVOA_N
ClientSampleId :

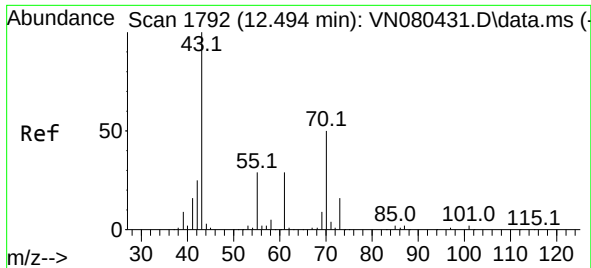
Tgt Ion:117 Resp: 635863
Ion Ratio Lower Upper
117 100
82 55.8 44.0 66.0
119 32.6 25.6 38.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. 0.000 min
Lab File: VN080578.D
Acq: 21 Dec 2023 17:02

Tgt Ion:152 Resp: 304174
Ion Ratio Lower Upper
152 100
115 62.0 32.3 96.8
150 157.9 0.0 355.8

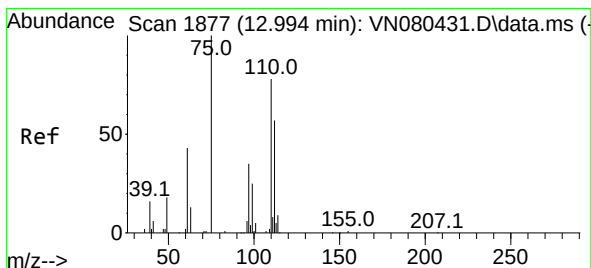
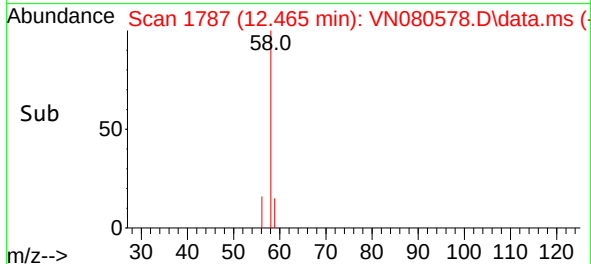
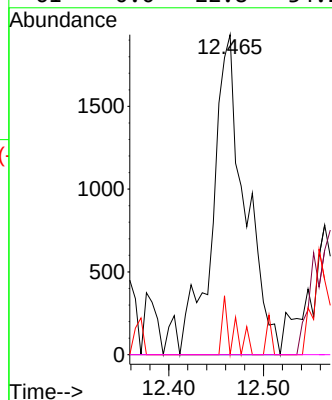
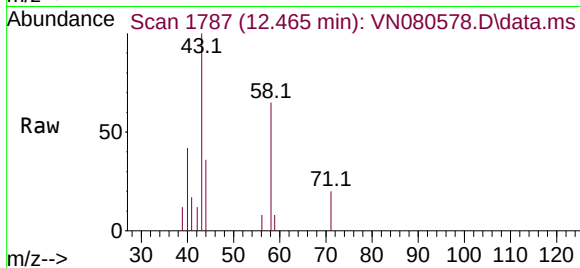




#74
N-amy1 acetate
Concen: 0.642 ug/l
RT: 12.465 min Scan# 1
Delta R.T. -0.029 min
Lab File: VN080578.D
Acq: 21 Dec 2023 17:02

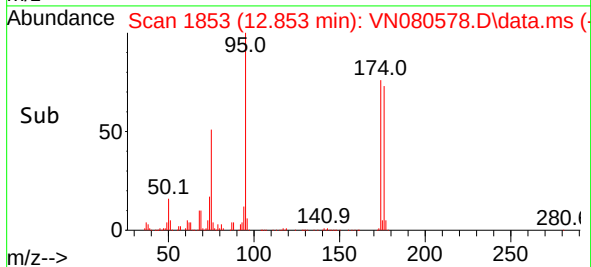
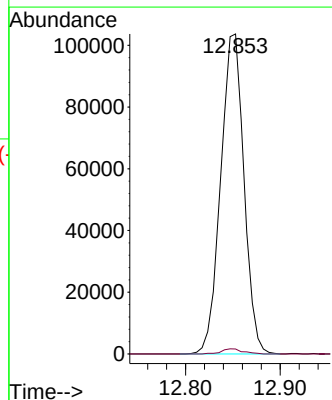
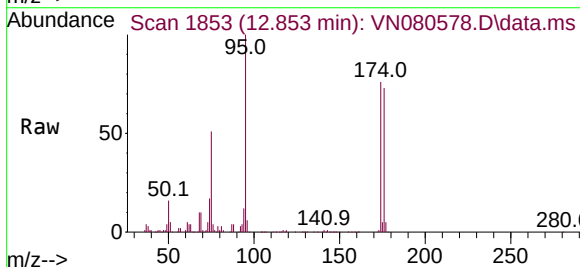
Instrument :
MSVOA_N
ClientSampleId :

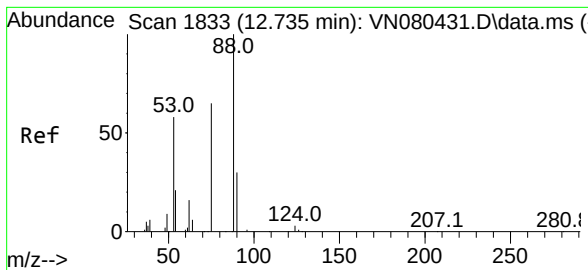
Tgt Ion: 43	Resp: 4581
Ion Ratio	Lower Upper
43	100
70	0.0 43.4 65.2#
55	5.8 21.4 32.0#
61	0.0 22.8 34.2#



#76
1,2,3-Trichloropropane
Concen: 29.181 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.141 min
Lab File: VN080578.D
Acq: 21 Dec 2023 17:02

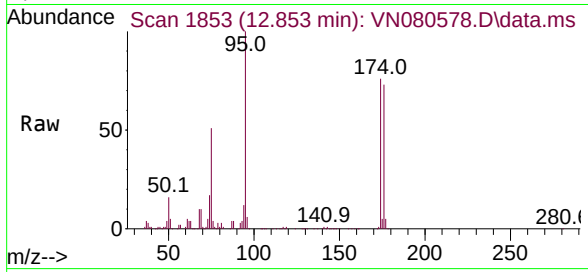
Tgt Ion: 75	Resp: 177072
Ion Ratio	Lower Upper
75	100
77	1.5 84.5 253.5#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 76.616 ug/l
 RT: 12.853 min Scan# 11
 Delta R.T. 0.118 min
 Lab File: VN080578.D
 Acq: 21 Dec 2023 17:02

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion: 75 Resp: 177072
 Ion Ratio Lower Upper
 75 100
 53 0.0 67.4 101.2#
 89 0.0 38.8 58.2#

