

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN073024\
 Data File : VN083072.D
 Acq On : 30 Jul 2024 17:02
 Operator : JC\MD
 Sample : PB162324ZHE#02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jul 31 06:04:28 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N070824W.M
 Quant Title : SW846 8260
 QLast Update : Mon Jul 08 13:46:04 2024
 Response via : Initial Calibration

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

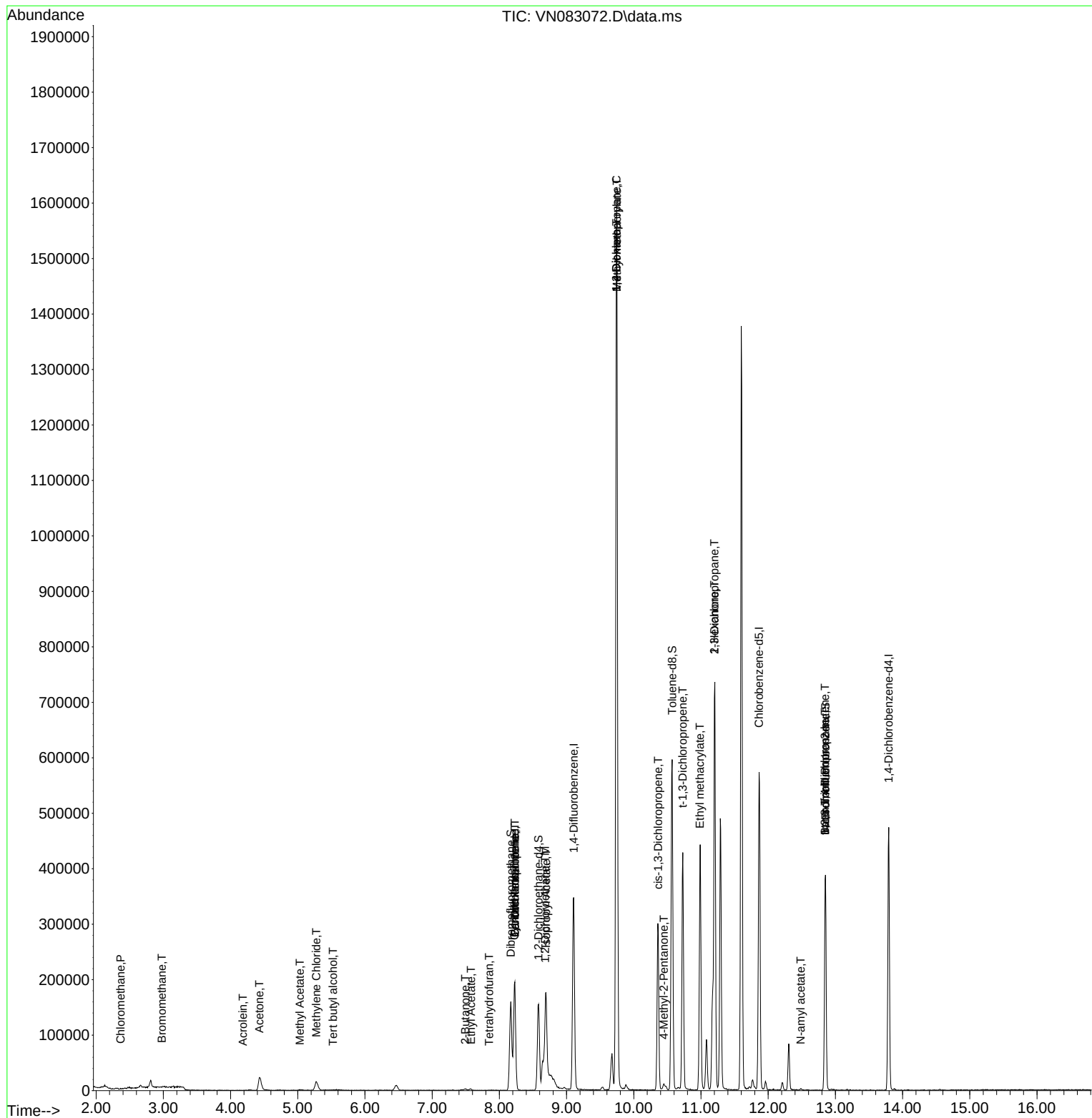
Internal Standards						
1) Pentafluorobenzene	8.230	168	133765	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	285703	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	320181	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	121372	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	131093	69.912	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 139.820%#			
35) Dibromofluoromethane	8.171	113	109097	59.509	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 119.020%			
50) Toluene-d8	10.571	98	403231	59.551	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 119.100%#			
62) 4-Bromofluorobenzene	12.853	95	121419	49.920	ug/l	0.00
Spiked Amount 50.000	Range 64 - 133		Recovery = 99.840%			
Target Compounds						Qvalue
3) Chloromethane	2.365	50	511	0.311	ug/l #	43
5) Bromomethane	2.977	94	500	0.402	ug/l #	8
11) Tert butyl alcohol	5.524	59	198	0.628	ug/l #	71
13) Acrolein	4.183	56	54	0.237	ug/l #	14
16) Acetone	4.430	43	45123	68.350	ug/l #	88
18) Methyl Acetate	5.030	43	1089	0.623	ug/l #	84
20) Methylene Chloride	5.277	84	11312	7.095	ug/l #	87
25) 2-Butanone	7.494	43	4701	4.716	ug/l #	83
29) Tetrahydrofuran	7.847	42	237	0.378	ug/l #	38
31) Cyclohexane	8.224	56	4257	1.737	ug/l #	26
36) 1,1-Dichloropropene	8.230	75	12769	5.052	ug/l #	52
37) Ethyl Acetate	7.577	43	4154	1.614	ug/l #	90
38) Carbon Tetrachloride	8.230	117	14009	4.603	ug/l #	17
42) 1,2-Dichloroethane	8.683	62	1178	0.421	ug/l #	78
43) Isopropyl Acetate	8.694	43	248186	51.221	ug/l #	84
45) 1,2-Dichloropropane	9.741	63	1993	1.098	ug/l #	44
48) Methyl methacrylate	9.747	41	152192	75.425	ug/l #	55
49) 1,4-Dioxane	9.741	88	228	5.720	ug/l #	1
51) 4-Methyl-2-Pentanone	10.447	43	12474	4.890	ug/l #	76
53) t-1,3-Dichloropropene	10.729	75	725	0.241	ug/l	93
54) cis-1,3-Dichloropropene	10.365	75	48896	15.347	ug/l #	64
56) Ethyl methacrylate	10.982	69	3108	1.119	ug/l #	1
57) 1,3-Dichloropropane	11.200	76	7465	2.361	ug/l #	45
59) 2-Hexanone	11.200	43	98944	52.165	ug/l #	58
71) Bromoform	12.847	173	1007	0.525	ug/l #	1
74) N-amyl acetate	12.482	43	970	0.266	ug/l #	53
76) 1,2,3-Trichloropropane	12.847	75	69835	33.374	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	69835	65.636	ug/l #	6

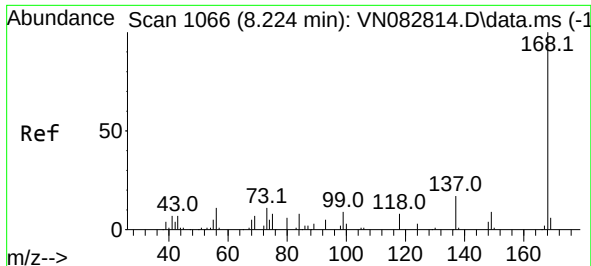
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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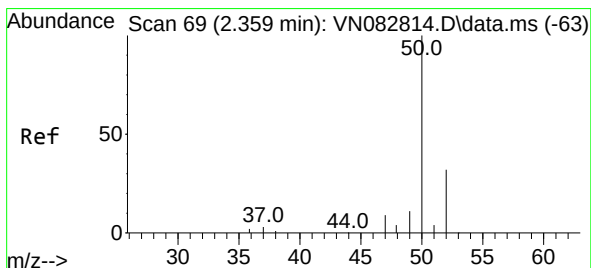
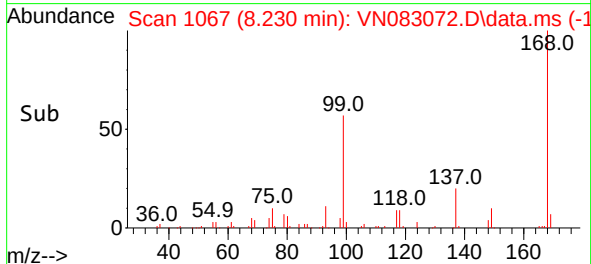
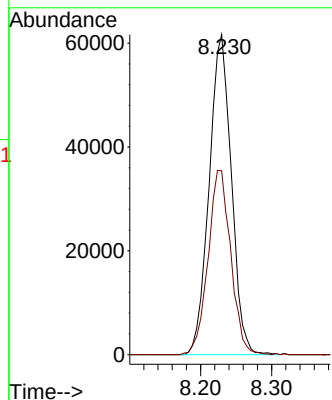
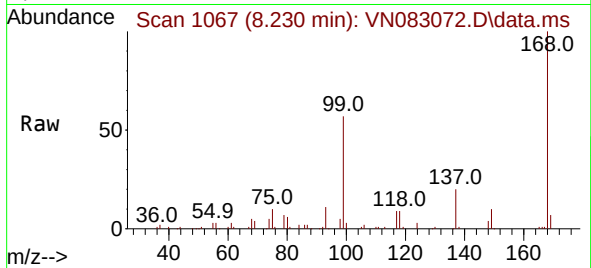




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 10
Delta R.T. 0.001 min
Lab File: VN083072.D
Acq: 30 Jul 2024 17:02

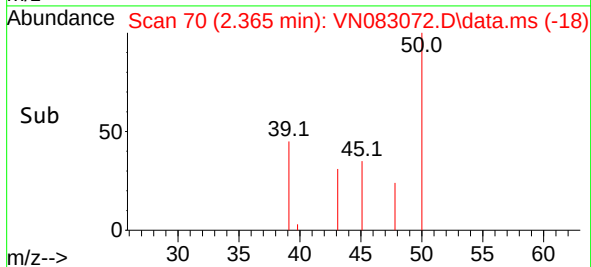
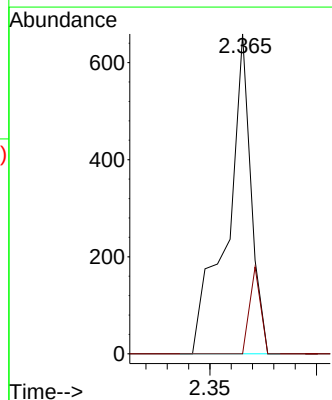
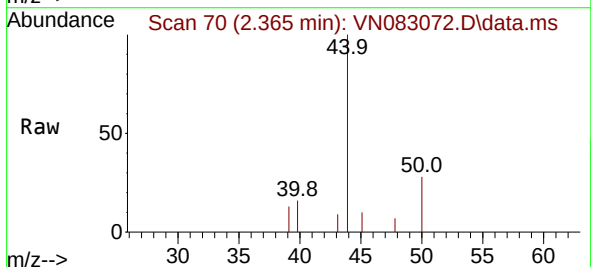
Instrument :
MSVOA_N
ClientSampleId :

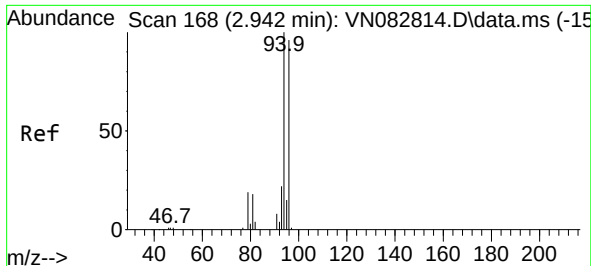
Tgt Ion:168 Resp: 133765
Ion Ratio Lower Upper
168 100
99 57.5 48.2 72.4



#3
Chloromethane
Concen: 0.311 ug/l
RT: 2.365 min Scan# 70
Delta R.T. 0.006 min
Lab File: VN083072.D
Acq: 30 Jul 2024 17:02

Tgt Ion: 50 Resp: 511
Ion Ratio Lower Upper
50 100
52 0.0 25.0 37.4#

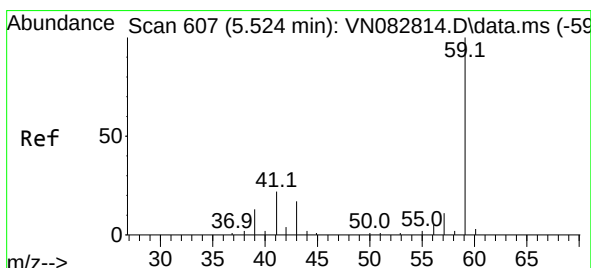
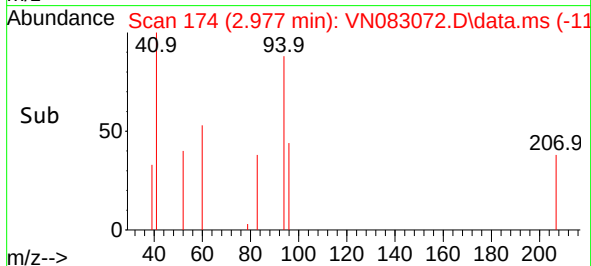
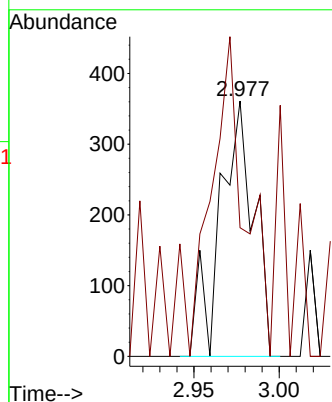
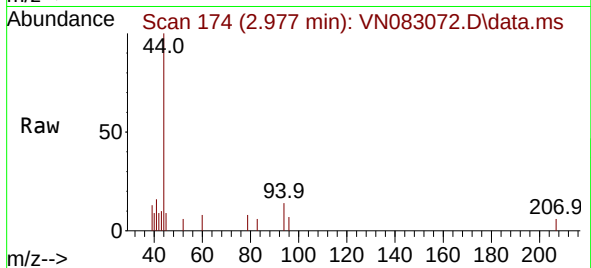




#5
Bromomethane
Concen: 0.402 ug/l
RT: 2.977 min Scan# 11
Delta R.T. 0.030 min
Lab File: VN083072.D
Acq: 30 Jul 2024 17:02

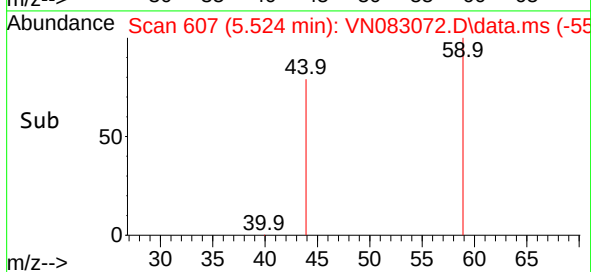
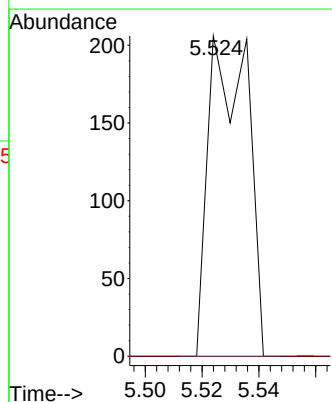
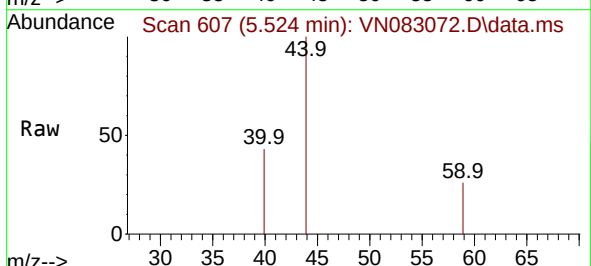
Instrument :
MSVOA_N
ClientSampleId :

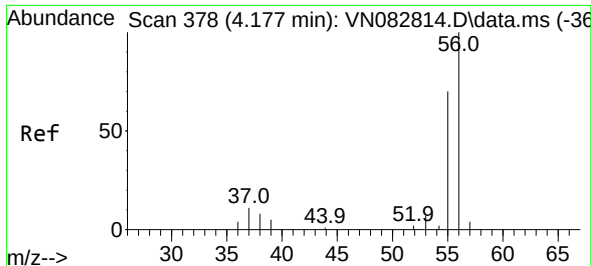
Tgt Ion: 94 Resp: 500
Ion Ratio Lower Upper
94 100
96 6.4 78.0 117.0#



#11
Tert butyl alcohol
Concen: 0.628 ug/l
RT: 5.524 min Scan# 607
Delta R.T. -0.000 min
Lab File: VN083072.D
Acq: 30 Jul 2024 17:02

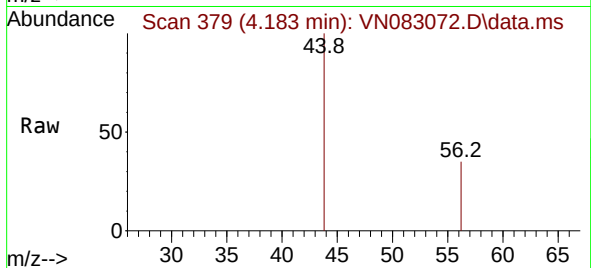
Tgt Ion: 59 Resp: 198
Ion Ratio Lower Upper
59 100
57 0.0 8.9 13.3#



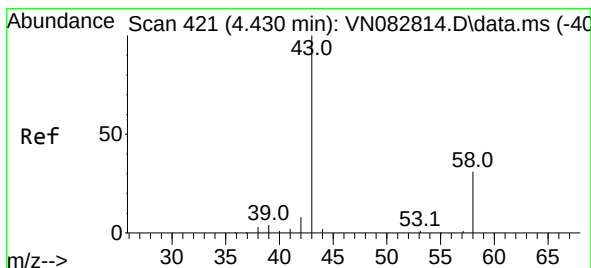
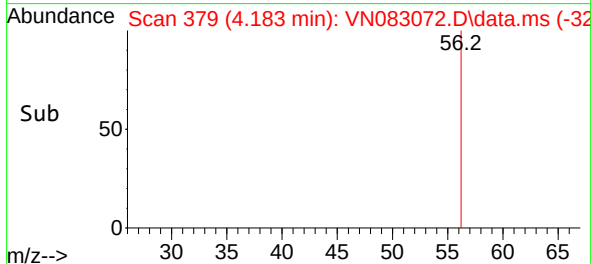
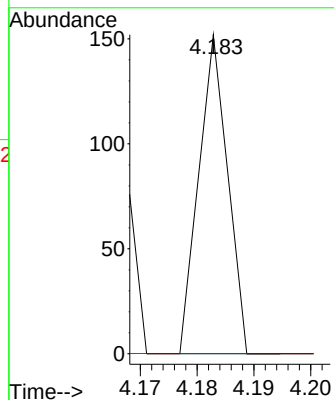


#13
Acrolein
Concen: 0.237 ug/l
RT: 4.183 min Scan# 378
Delta R.T. 0.006 min
Lab File: VN083072.D
Acq: 30 Jul 2024 17:02

Instrument :
MSVOA_N
ClientSampleId :

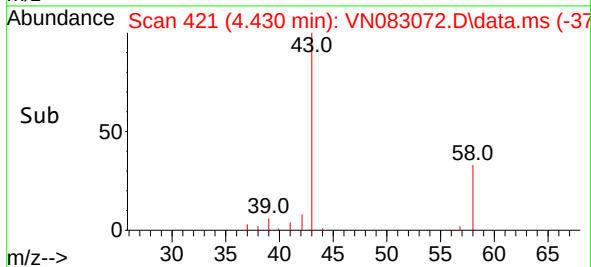
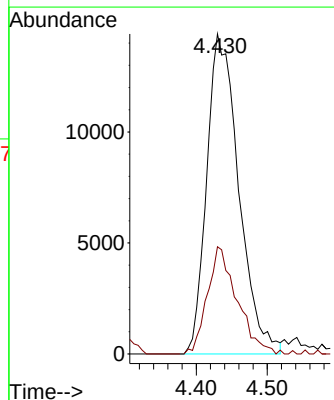
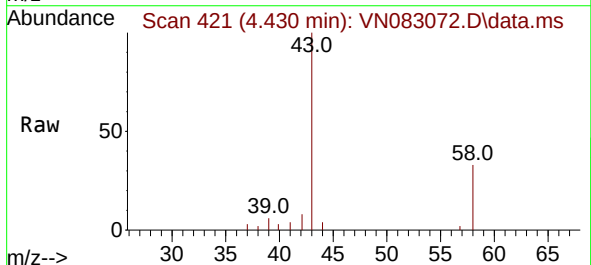


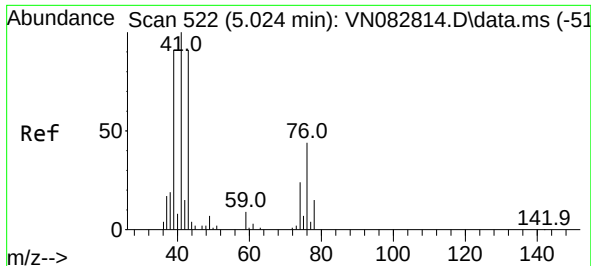
Tgt Ion: 56 Resp: 54
Ion Ratio Lower Upper
56 100
55 0.0 56.4 84.6#



#16
Acetone
Concen: 68.350 ug/l
RT: 4.430 min Scan# 421
Delta R.T. -0.000 min
Lab File: VN083072.D
Acq: 30 Jul 2024 17:02

Tgt Ion: 43 Resp: 45123
Ion Ratio Lower Upper
43 100
58 33.5 21.8 32.6#

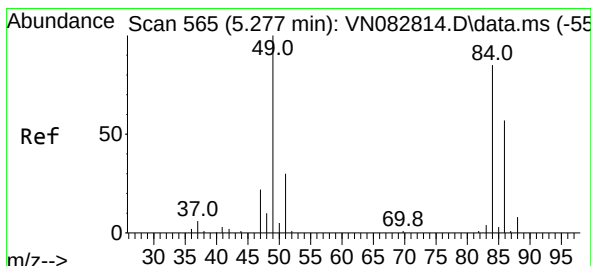
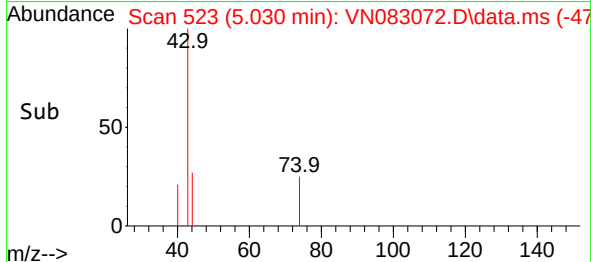
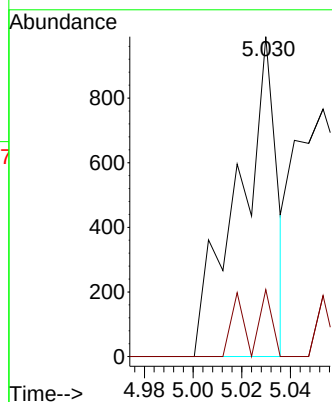
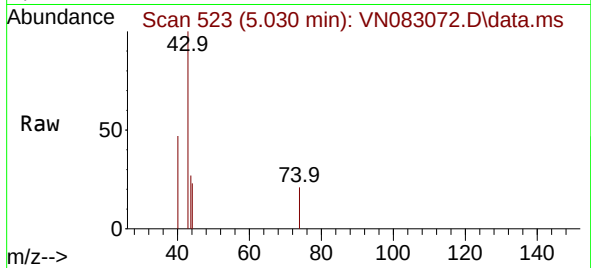




#18
Methyl Acetate
Concen: 0.623 ug/l
RT: 5.030 min Scan# 51
Delta R.T. -0.000 min
Lab File: VN083072.D
Acq: 30 Jul 2024 17:02

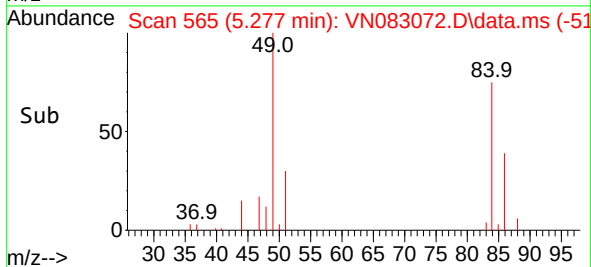
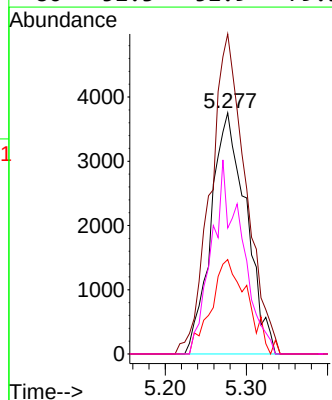
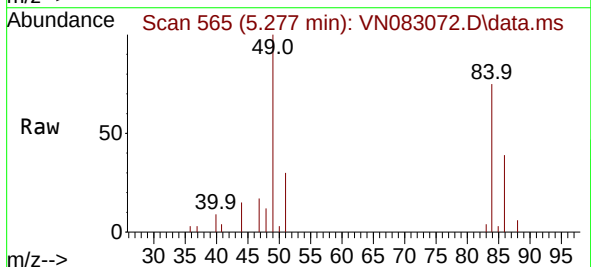
Instrument :
MSVOA_N
ClientSampleId :

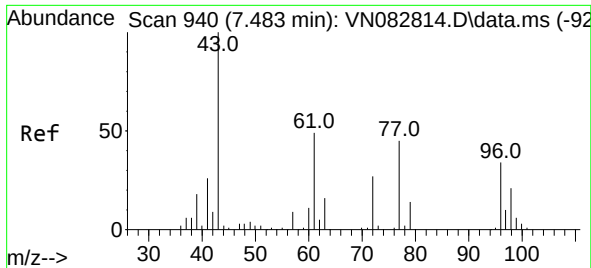
Tgt Ion: 43 Resp: 1089
Ion Ratio Lower Upper
43 100
74 13.1 16.3 24.5#



#20
Methylene Chloride
Concen: 7.095 ug/l
RT: 5.277 min Scan# 565
Delta R.T. -0.000 min
Lab File: VN083072.D
Acq: 30 Jul 2024 17:02

Tgt Ion: 84 Resp: 11312
Ion Ratio Lower Upper
84 100
49 132.7 119.6 179.4
51 39.2 34.8 52.2
86 52.3 52.9 79.3#

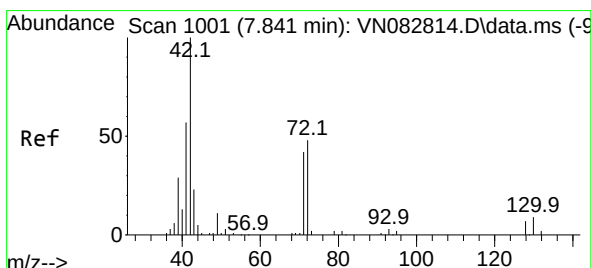
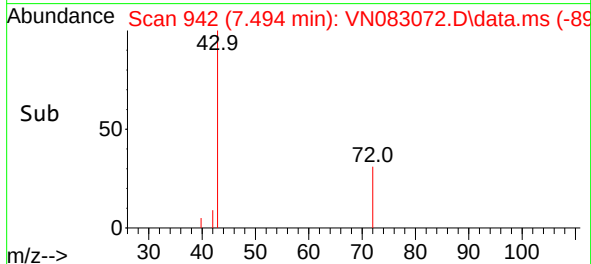
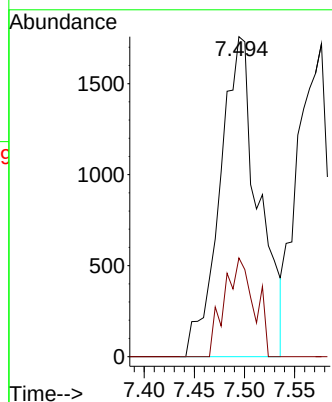
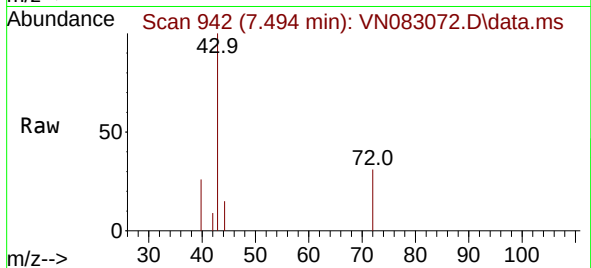




#25
2-Butanone
Concen: 4.716 ug/l
RT: 7.494 min Scan# 940
Delta R.T. 0.006 min
Lab File: VN083072.D
Acq: 30 Jul 2024 17:02

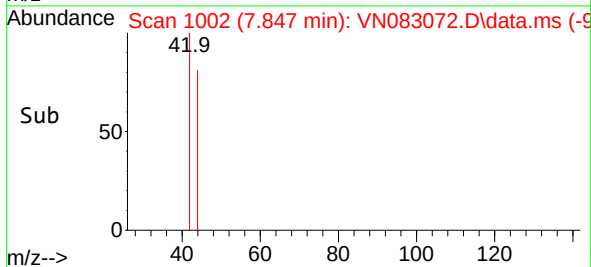
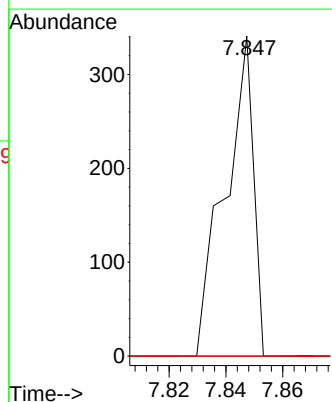
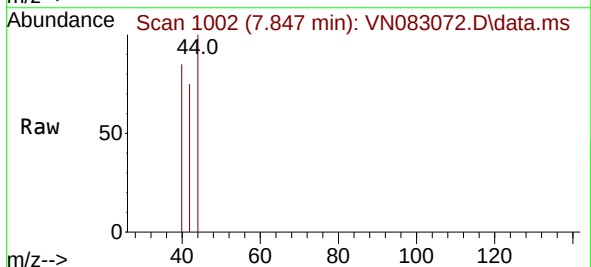
Instrument :
MSVOA_N
ClientSampleId :

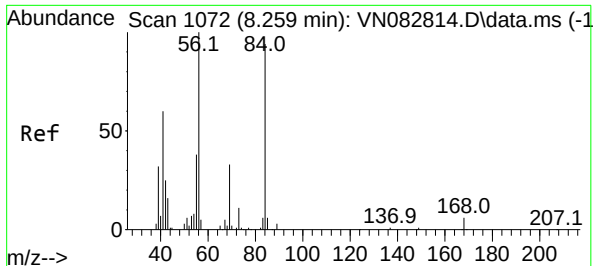
Tgt Ion: 43 Resp: 4701
Ion Ratio Lower Upper
43 100
72 30.8 18.2 27.2#



#29
Tetrahydrofuran
Concen: 0.378 ug/l
RT: 7.847 min Scan# 1002
Delta R.T. 0.006 min
Lab File: VN083072.D
Acq: 30 Jul 2024 17:02

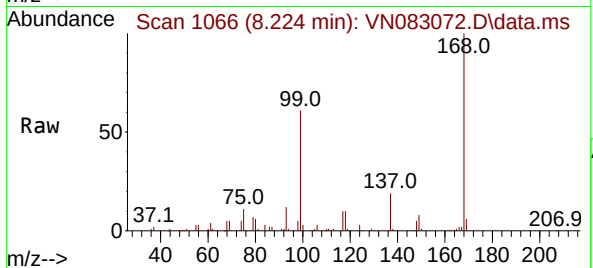
Tgt Ion: 42 Resp: 237
Ion Ratio Lower Upper
42 100
72 0.0 30.0 45.0#
71 0.0 28.3 42.5#



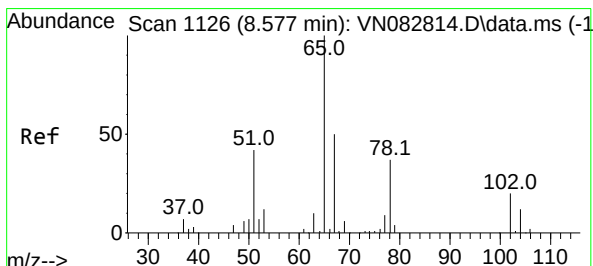
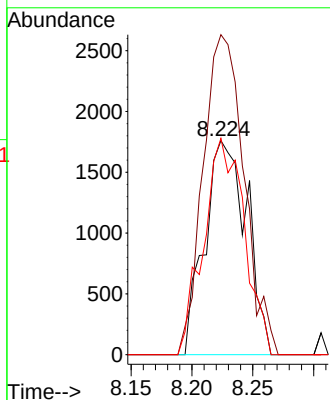
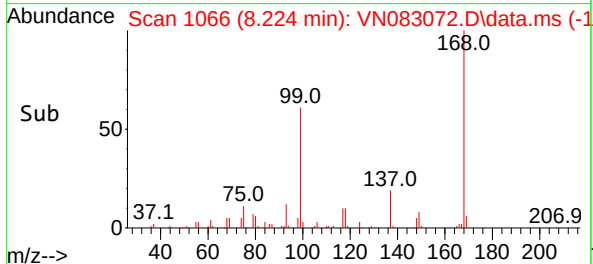


#31
Cyclohexane
Concen: 1.737 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.035 min
Lab File: VN083072.D
Acq: 30 Jul 2024 17:02

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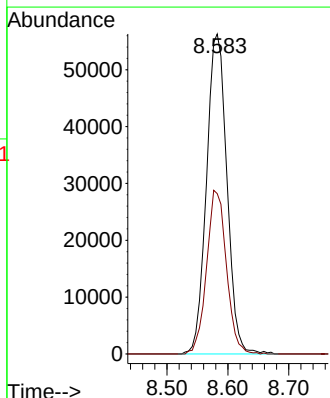
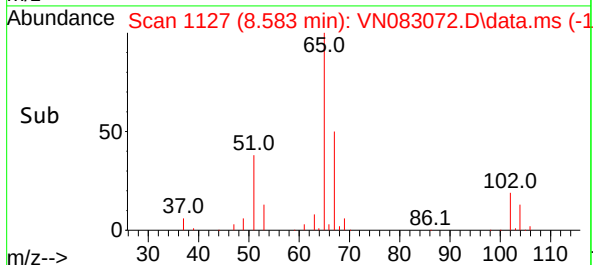
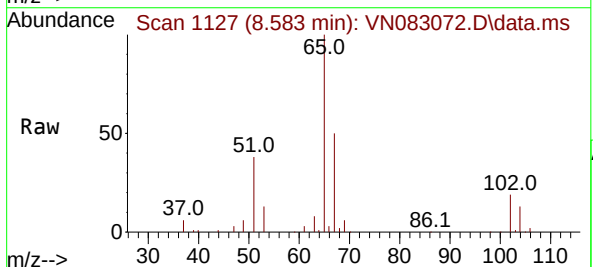


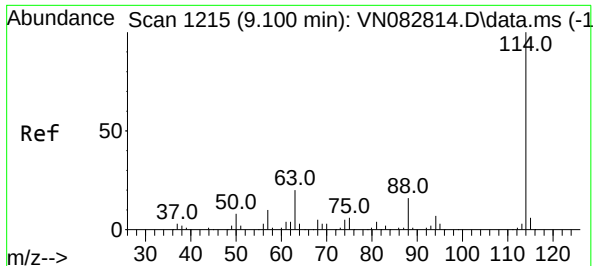
Tgt Ion: 56 Resp: 4257
Ion Ratio Lower Upper
56 100
69 149.5 24.5 36.7#
84 101.0 66.0 99.0#



#33
1,2-Dichloroethane-d4
Concen: 69.912 ug/l
RT: 8.583 min Scan# 1127
Delta R.T. 0.001 min
Lab File: VN083072.D
Acq: 30 Jul 2024 17:02

Tgt Ion: 65 Resp: 131093
Ion Ratio Lower Upper
65 100
67 49.7 0.0 104.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN083072.D

Acq: 30 Jul 2024 17:02

Instrument :

MSVOA_N

ClientSampleId :

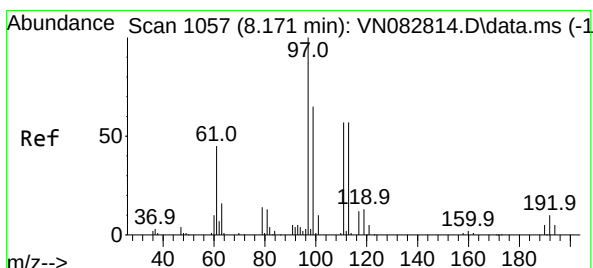
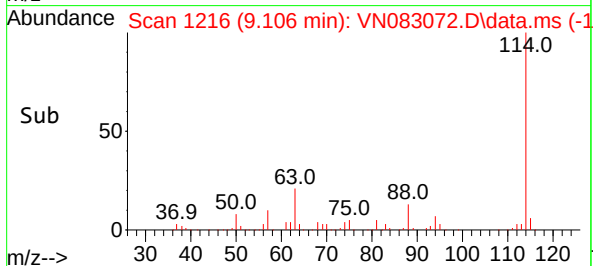
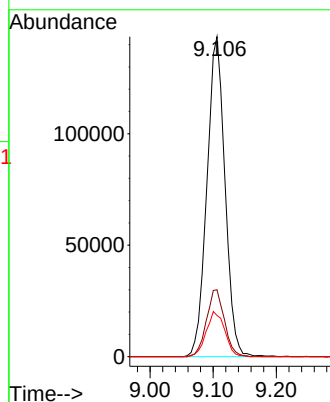
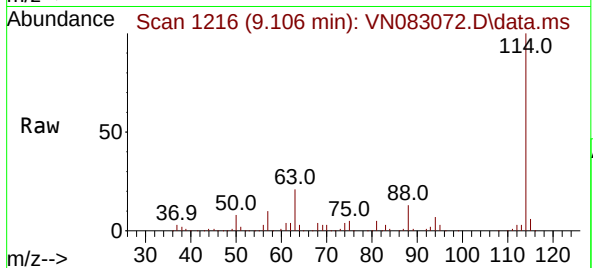
Tgt Ion:114 Resp: 285703

Ion Ratio Lower Upper

114 100

63 20.9 0.0 44.6

88 12.9 0.0 31.4



#35

Dibromofluoromethane

Concen: 59.509 ug/l

RT: 8.171 min Scan# 1057

Delta R.T. 0.006 min

Lab File: VN083072.D

Acq: 30 Jul 2024 17:02

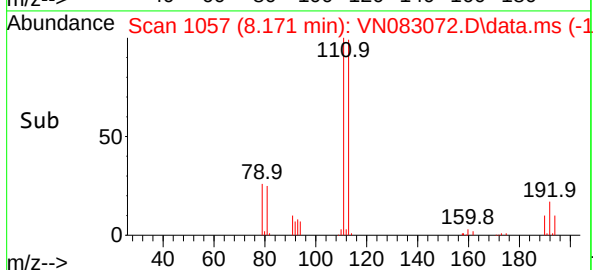
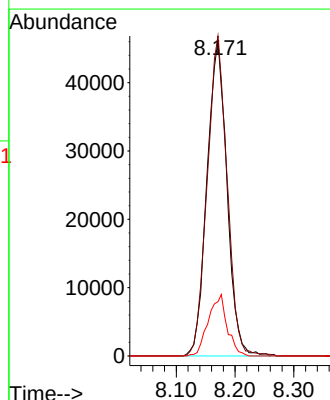
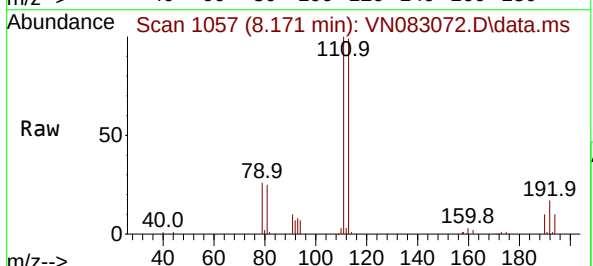
Tgt Ion:113 Resp: 109097

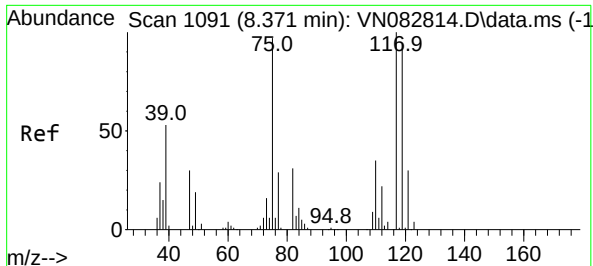
Ion Ratio Lower Upper

113 100

111 101.3 82.4 123.6

192 18.3 14.9 22.3





#36

1,1-Dichloropropene

Concen: 5.052 ug/l

RT: 8.230 min Scan# 1

Delta R.T. -0.141 min

Lab File: VN083072.D

Acq: 30 Jul 2024 17:02

Instrument :

MSVOA_N

ClientSampleId :

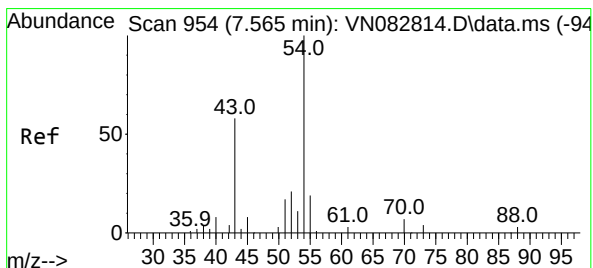
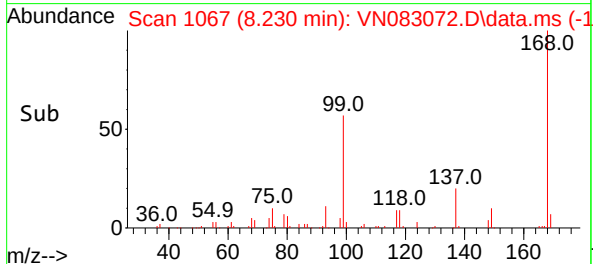
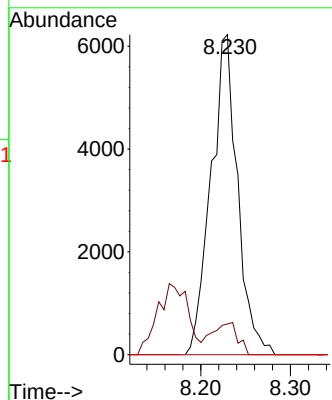
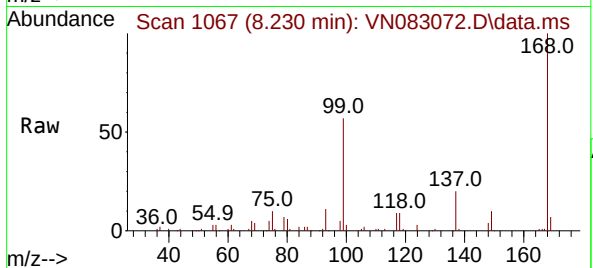
Tgt Ion: 75 Resp: 12769

Ion Ratio Lower Upper

75 100

110 9.8 16.3 48.9#

77 0.0 24.6 37.0#



#37

Ethyl Acetate

Concen: 1.614 ug/l

RT: 7.577 min Scan# 956

Delta R.T. 0.012 min

Lab File: VN083072.D

Acq: 30 Jul 2024 17:02

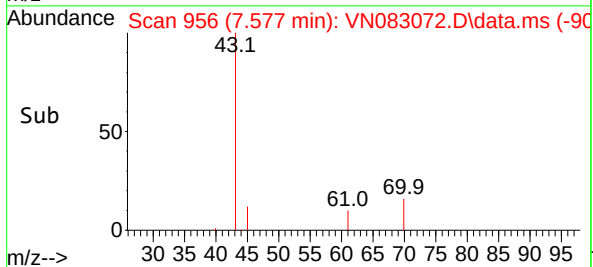
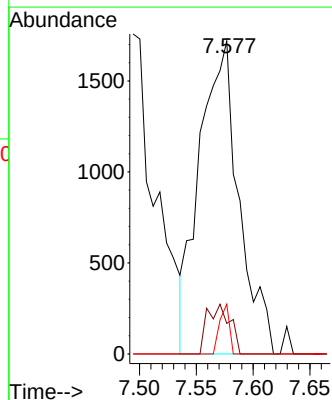
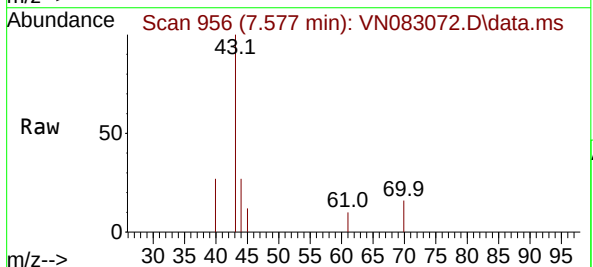
Tgt Ion: 43 Resp: 4154

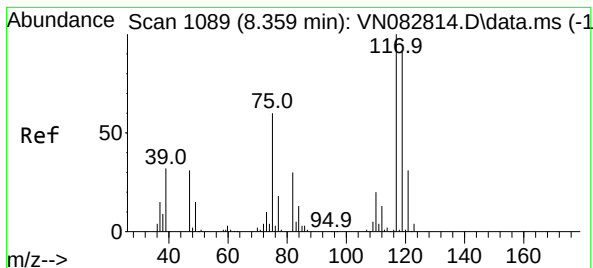
Ion Ratio Lower Upper

43 100

61 9.1 9.3 13.9#

70 3.9 7.0 10.6#





#38

Carbon Tetrachloride

Concen: 4.603 ug/l

RT: 8.230 min Scan# 1107

Delta R.T. -0.135 min

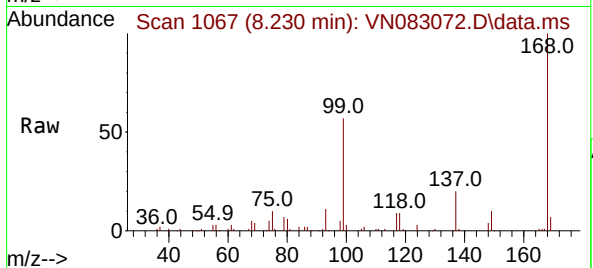
Lab File: VN083072.D

Acq: 30 Jul 2024 17:02

Instrument :

MSVOA_N

ClientSampleId :



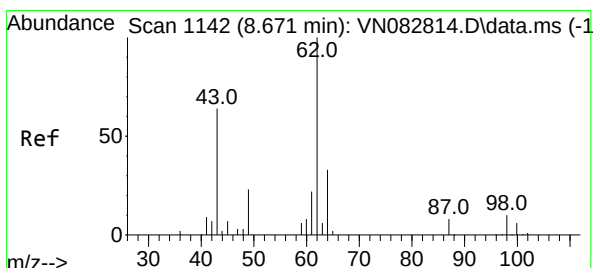
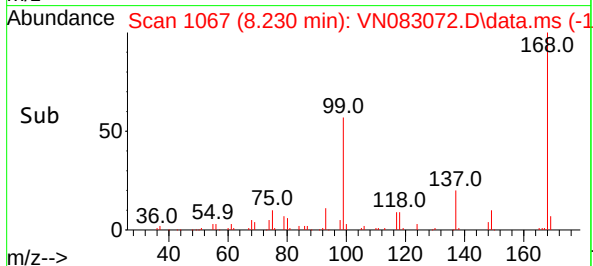
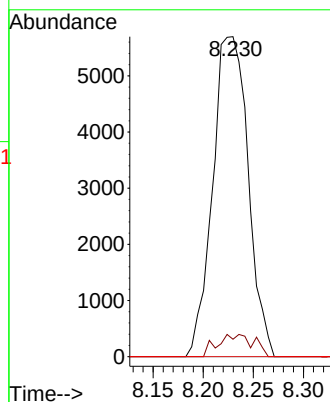
Tgt Ion:117 Resp: 14009

Ion Ratio Lower Upper

117 100

119 5.5 74.9 112.3#

121 0.0 24.3 36.5#



#42

1,2-Dichloroethane

Concen: 0.421 ug/l

RT: 8.683 min Scan# 1144

Delta R.T. 0.012 min

Lab File: VN083072.D

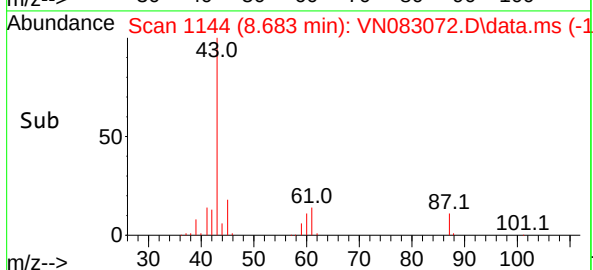
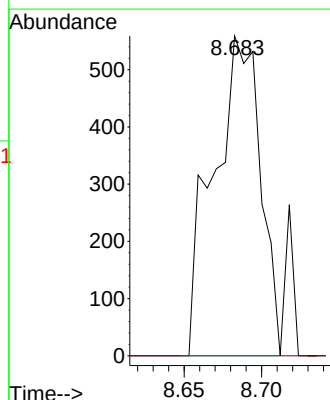
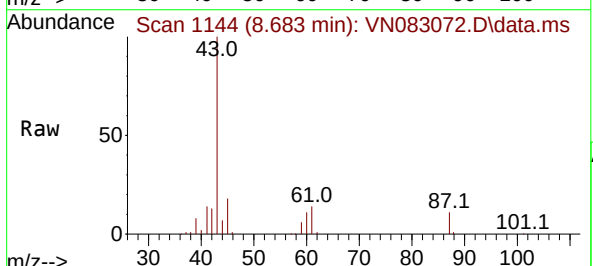
Acq: 30 Jul 2024 17:02

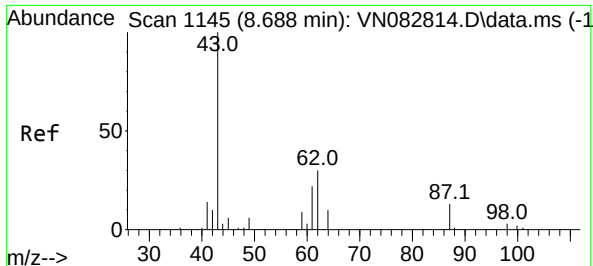
Tgt Ion: 62 Resp: 1178

Ion Ratio Lower Upper

62 100

98 0.0 0.0 15.8

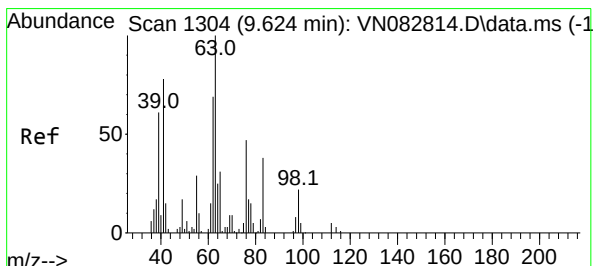
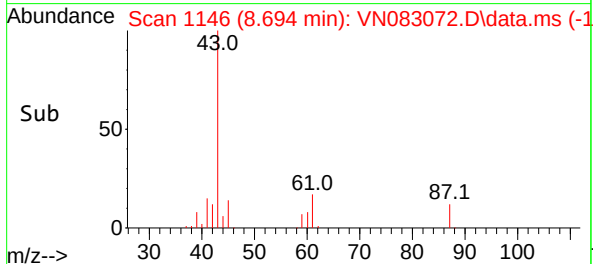
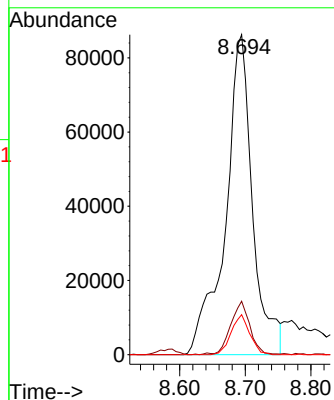
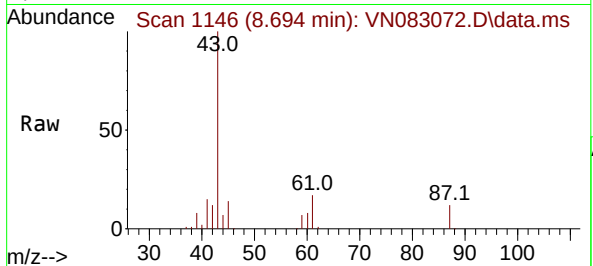




#43
Isopropyl Acetate
Concen: 51.221 ug/l
RT: 8.694 min Scan# 1145
Delta R.T. 0.000 min
Lab File: VN083072.D
Acq: 30 Jul 2024 17:02

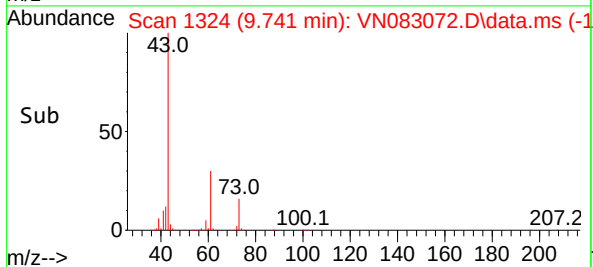
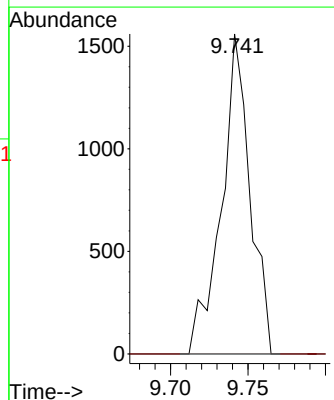
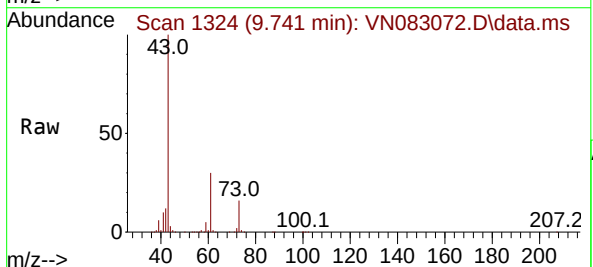
Instrument :
MSVOA_N
ClientSampleId :

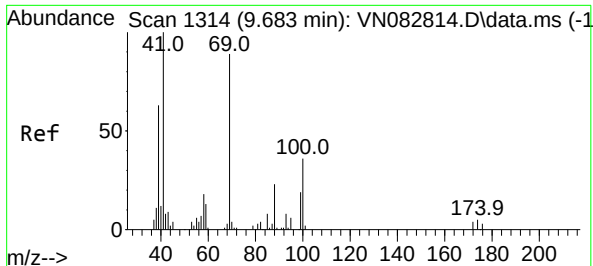
Tgt Ion: 43 Resp: 248186
Ion Ratio Lower Upper
43 100
61 11.9 17.8 26.6#
87 8.6 8.2 12.2



#45
1,2-Dichloropropane
Concen: 1.098 ug/l
RT: 9.741 min Scan# 1324
Delta R.T. 0.118 min
Lab File: VN083072.D
Acq: 30 Jul 2024 17:02

Tgt Ion: 63 Resp: 1993
Ion Ratio Lower Upper
63 100
65 0.0 24.4 36.6#

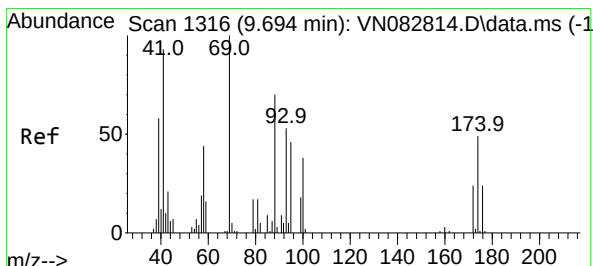
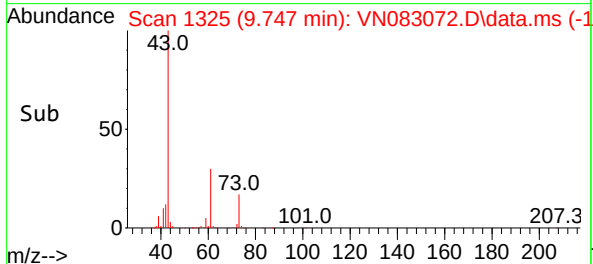
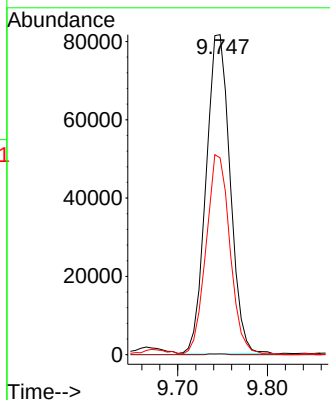
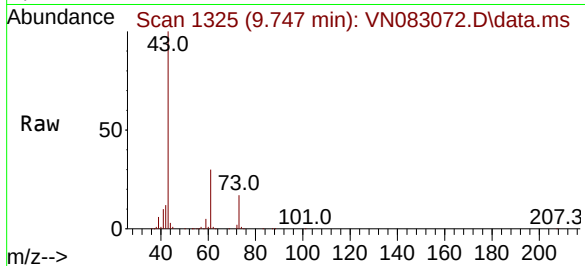




#48
Methyl methacrylate
Concen: 75.425 ug/l
RT: 9.747 min Scan# 11
Delta R.T. 0.065 min
Lab File: VN083072.D
Acq: 30 Jul 2024 17:02

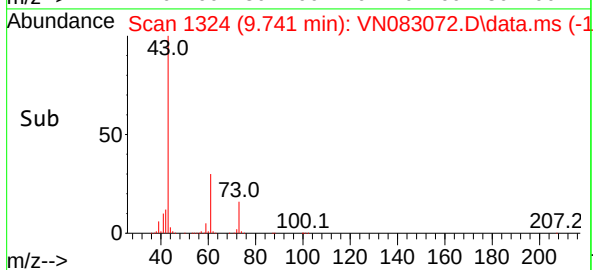
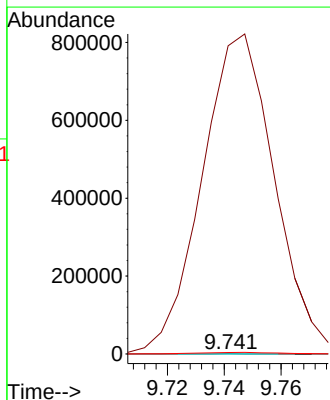
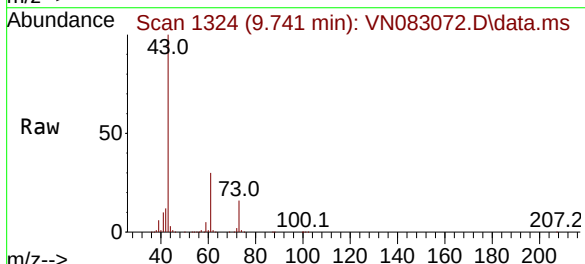
Instrument :
MSVOA_N
ClientSampleId :

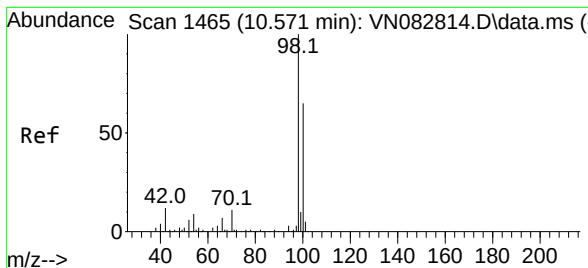
Tgt Ion: 41 Resp: 152192
Ion Ratio Lower Upper
41 100
69 0.2 56.3 84.5#
39 62.3 50.3 75.5



#49
1,4-Dioxane
Concen: 5.720 ug/l
RT: 9.741 min Scan# 1324
Delta R.T. 0.047 min
Lab File: VN083072.D
Acq: 30 Jul 2024 17:02

Tgt Ion: 88 Resp: 228
Ion Ratio Lower Upper
88 100
43 643269.7 27.8 41.8#
58 3457.0 59.4 89.0#

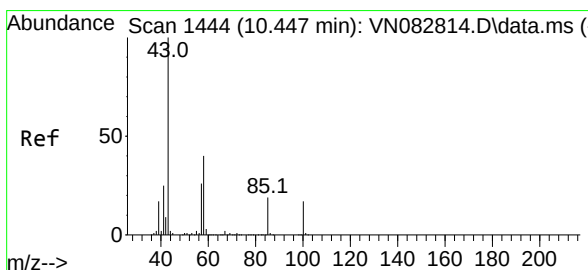
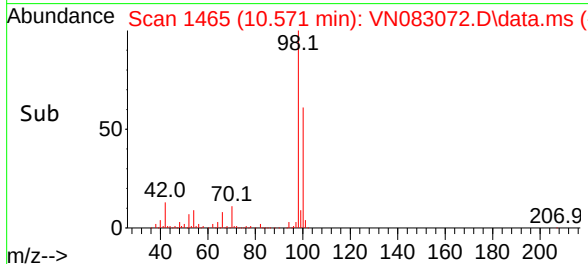
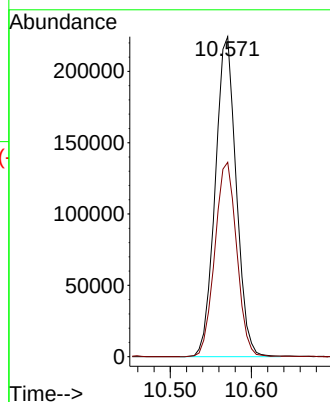
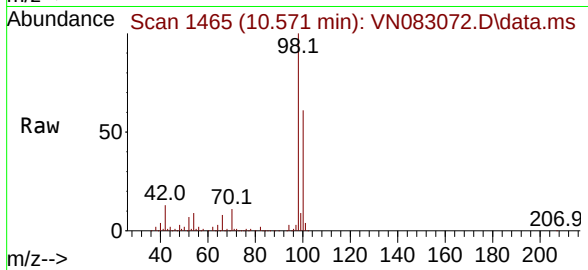




#50
Toluene-d8
Concen: 59.551 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. 0.001 min
Lab File: VN083072.D
Acq: 30 Jul 2024 17:02

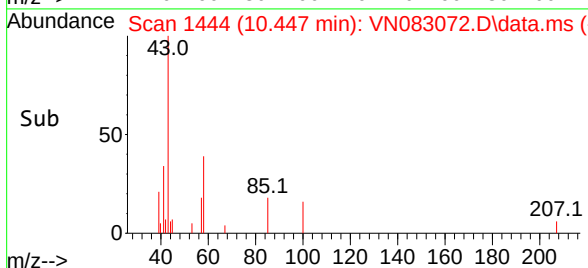
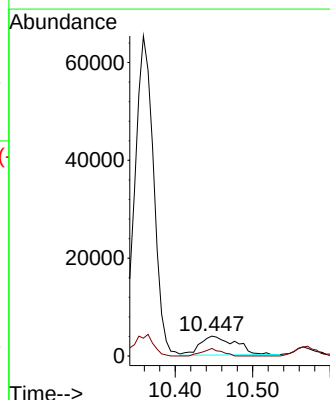
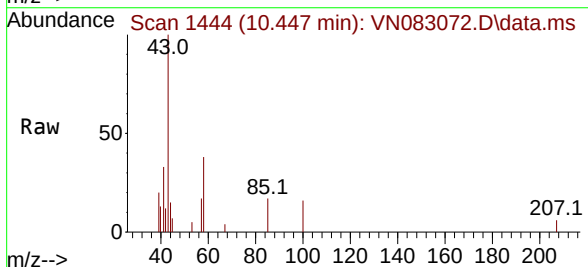
Instrument :
MSVOA_N
ClientSampleId :

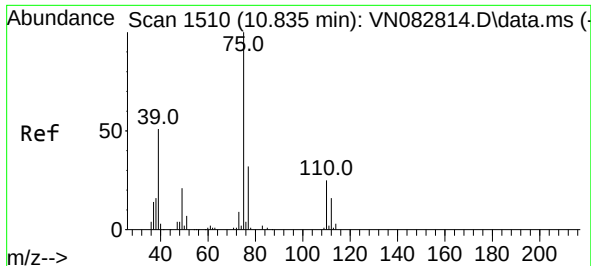
Tgt Ion: 98 Resp: 403231
Ion Ratio Lower Upper
98 100
100 63.3 51.5 77.3



#51
4-Methyl-2-Pentanone
Concen: 4.890 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. 0.000 min
Lab File: VN083072.D
Acq: 30 Jul 2024 17:02

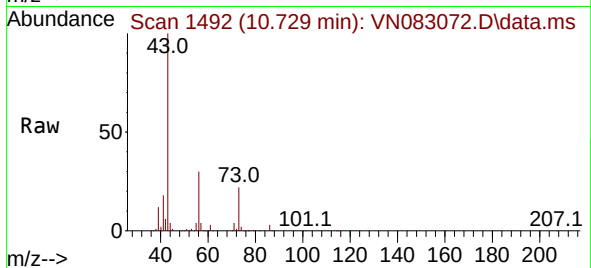
Tgt Ion: 43 Resp: 12474
Ion Ratio Lower Upper
43 100
58 21.1 28.2 42.4#



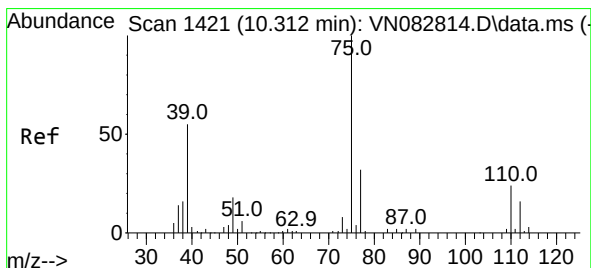
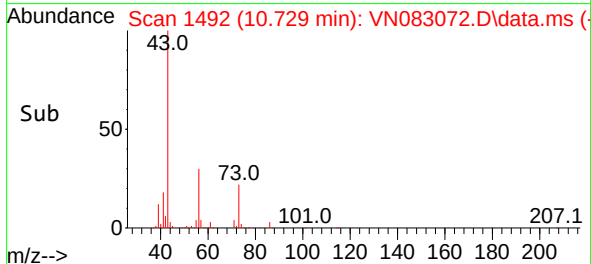
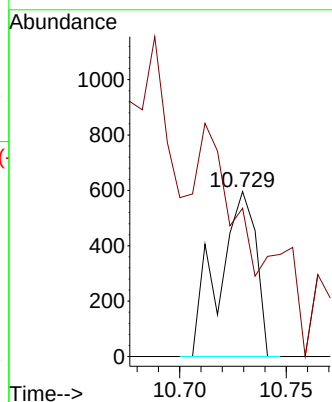


#53
 t-1,3-Dichloropropene
 Concen: 0.241 ug/l
 RT: 10.729 min Scan# 14
 Delta R.T. -0.106 min
 Lab File: VN083072.D
 Acq: 30 Jul 2024 17:02

Instrument :
 MSVOA_N
 ClientSampleId :

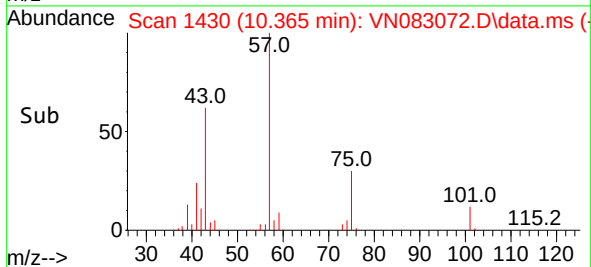
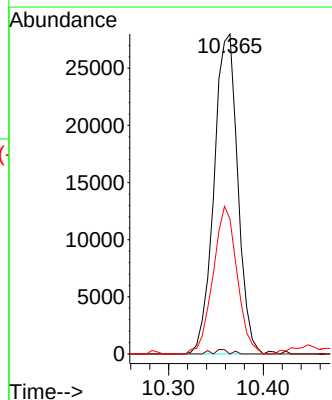
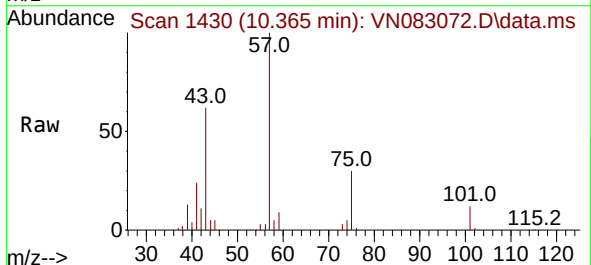


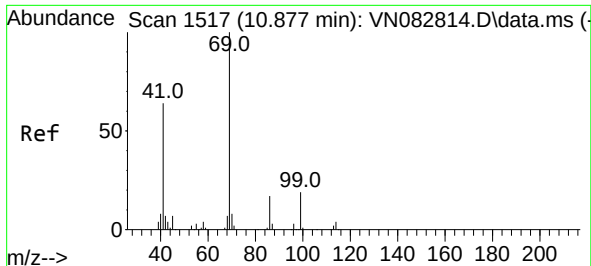
Tgt Ion: 75 Resp: 725
 Ion Ratio Lower Upper
 75 100
 77 28.0 25.7 38.5



#54
 cis-1,3-Dichloropropene
 Concen: 15.347 ug/l
 RT: 10.365 min Scan# 1430
 Delta R.T. 0.047 min
 Lab File: VN083072.D
 Acq: 30 Jul 2024 17:02

Tgt Ion: 75 Resp: 48896
 Ion Ratio Lower Upper
 75 100
 77 0.0 24.3 36.5#
 39 42.2 50.5 75.7#

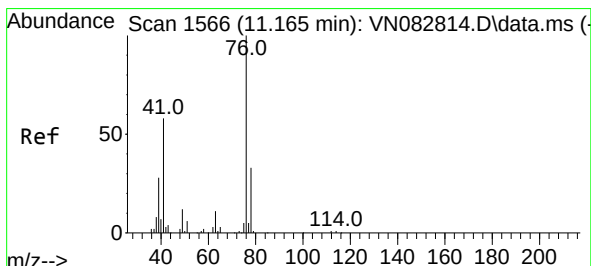
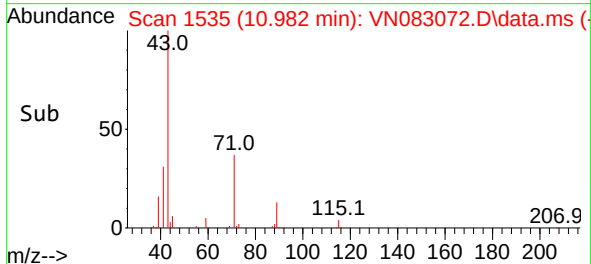
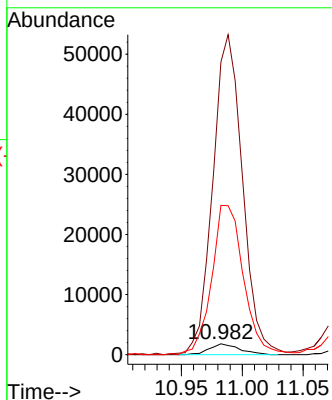
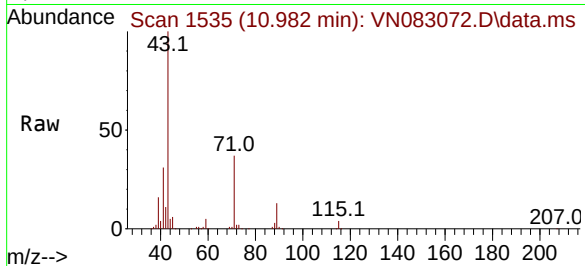




#56
Ethyl methacrylate
Concen: 1.119 ug/l
RT: 10.982 min Scan# 1535
Delta R.T. 0.106 min
Lab File: VN083072.D
Acq: 30 Jul 2024 17:02

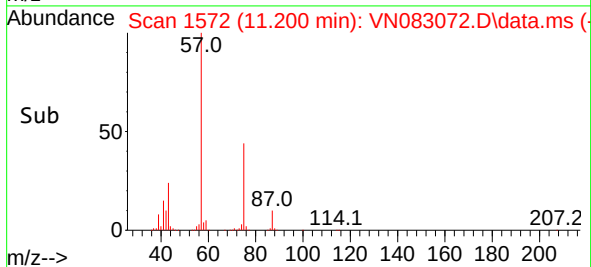
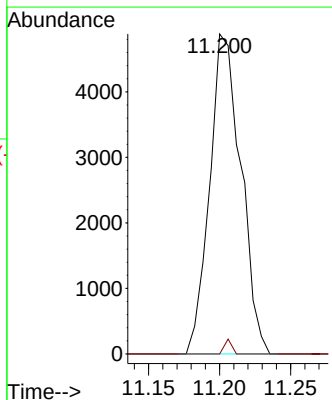
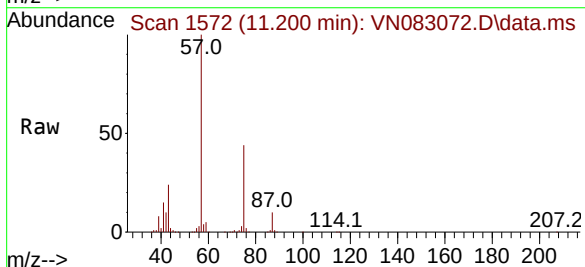
Instrument :
MSVOA_N
ClientSampleId :

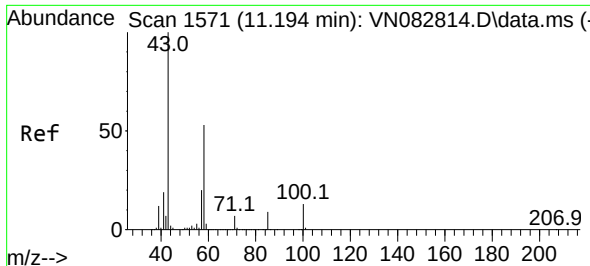
Tgt Ion: 69 Resp: 3108
Ion Ratio Lower Upper
69 100
41 2910.1 63.4 95.2#
39 1451.1 37.4 56.0#



#57
1,3-Dichloropropane
Concen: 2.361 ug/l
RT: 11.200 min Scan# 1572
Delta R.T. 0.035 min
Lab File: VN083072.D
Acq: 30 Jul 2024 17:02

Tgt Ion: 76 Resp: 7465
Ion Ratio Lower Upper
76 100
78 1.1 25.6 38.4#

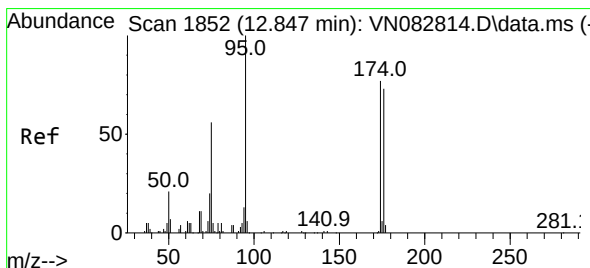
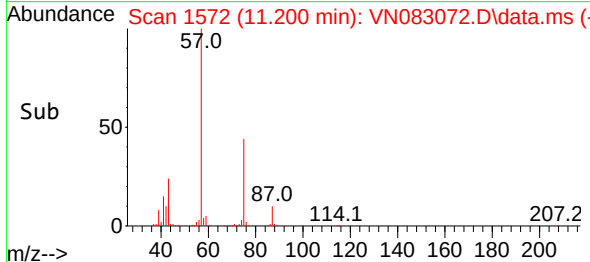
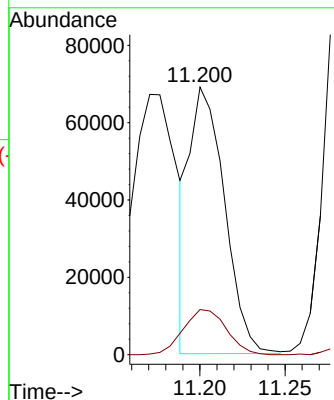
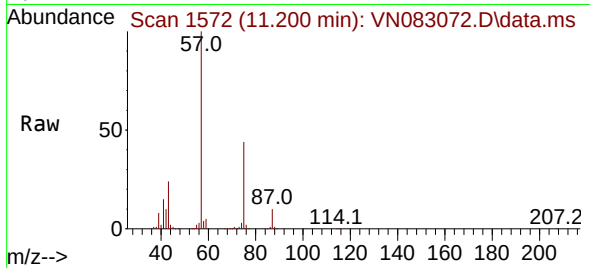




#59
2-Hexanone
Concen: 52.165 ug/l
RT: 11.200 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN083072.D
Acq: 30 Jul 2024 17:02

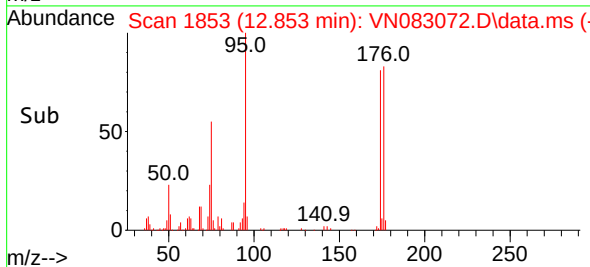
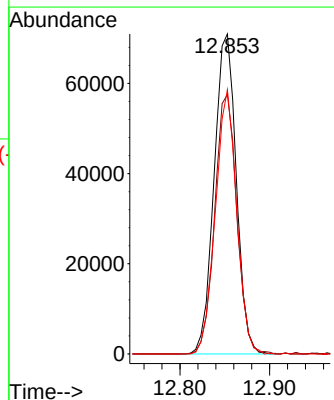
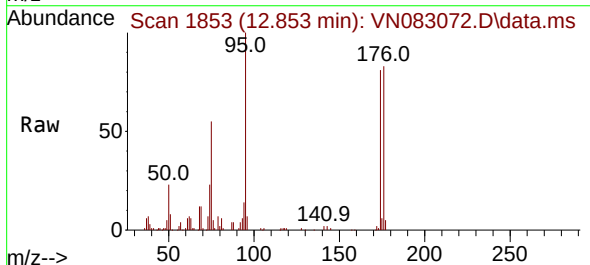
Instrument :
MSVOA_N
ClientSampleId :

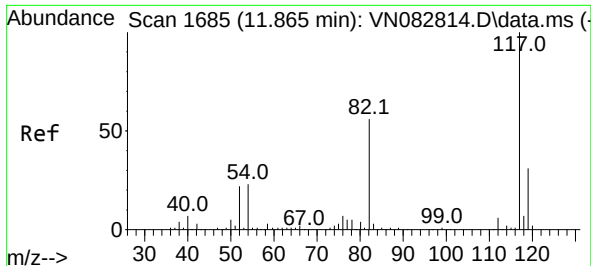
Tgt Ion: 43 Resp: 98944
Ion Ratio Lower Upper
43 100
58 20.8 24.6 73.8#



#62
4-Bromofluorobenzene
Concen: 49.920 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.006 min
Lab File: VN083072.D
Acq: 30 Jul 2024 17:02

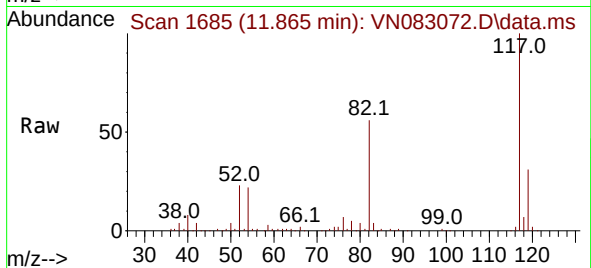
Tgt Ion: 95 Resp: 121419
Ion Ratio Lower Upper
95 100
174 81.0 0.0 159.2
176 79.4 0.0 147.6



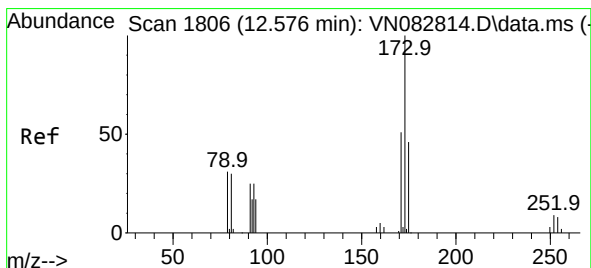
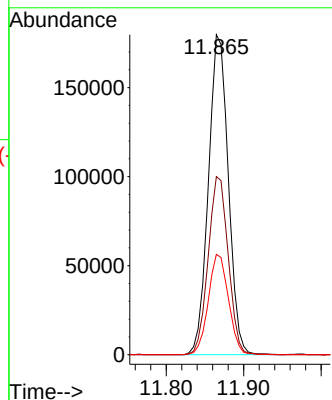
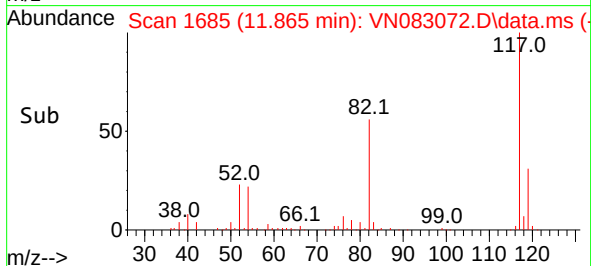


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. -0.005 min
Lab File: VN083072.D
Acq: 30 Jul 2024 17:02

Instrument :
MSVOA_N
ClientSampleId :

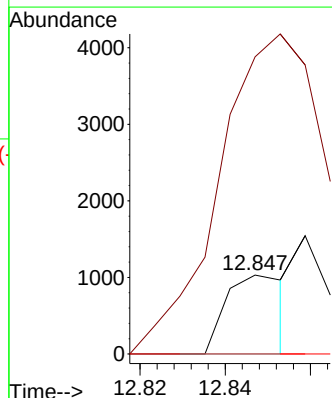
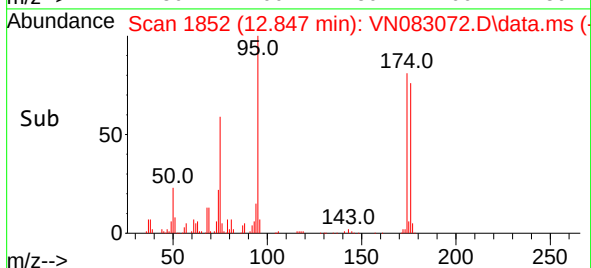
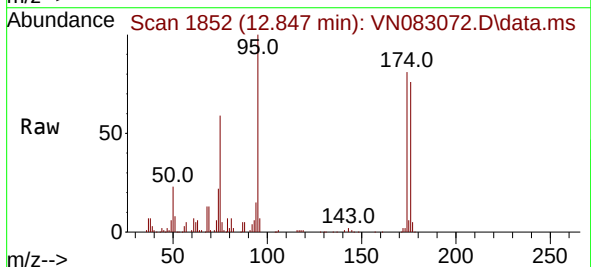


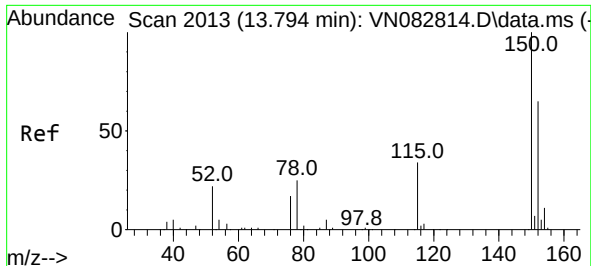
Tgt Ion:117 Resp: 320181
Ion Ratio Lower Upper
117 100
82 55.6 47.5 71.3
119 31.4 25.6 38.4



#71
Bromoform
Concen: 0.525 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.265 min
Lab File: VN083072.D
Acq: 30 Jul 2024 17:02

Tgt Ion:173 Resp: 1007
Ion Ratio Lower Upper
173 100
175 608.4 24.0 72.0#
254 0.0 0.0 0.0

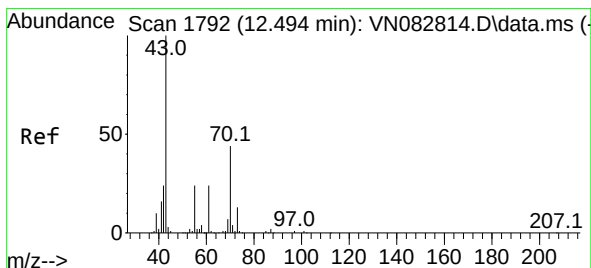
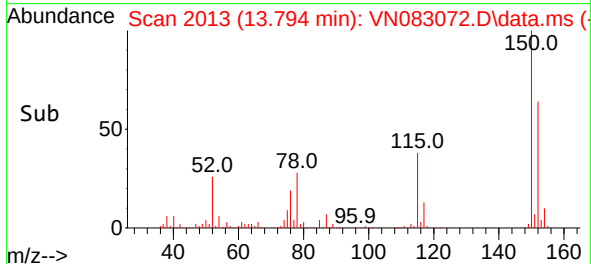
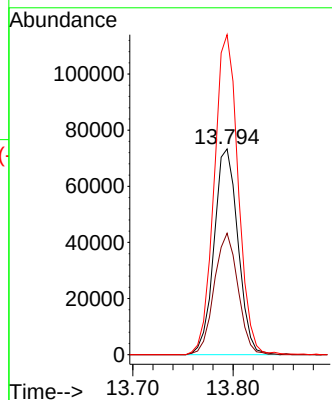
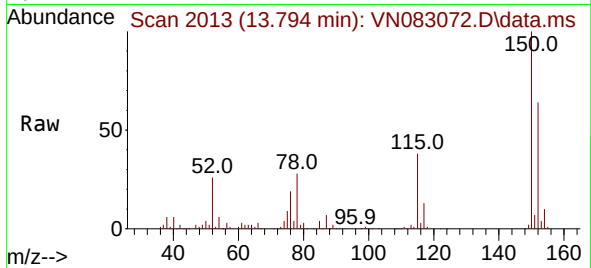




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 20
Delta R.T. 0.000 min
Lab File: VN083072.D
Acq: 30 Jul 2024 17:02

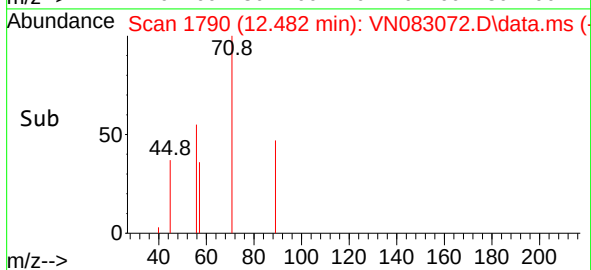
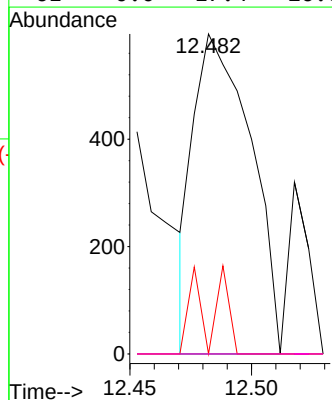
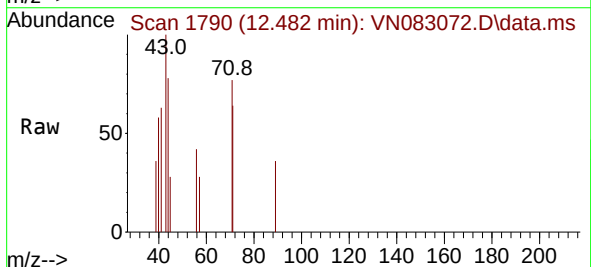
Instrument :
MSVOA_N
ClientSampleId :

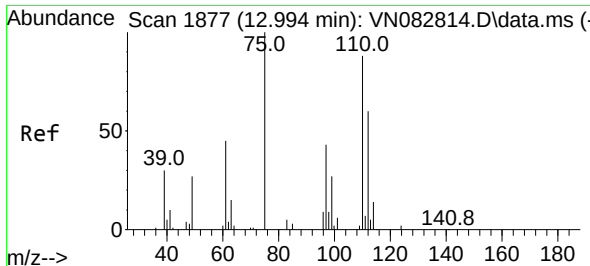
Tgt Ion:152 Resp: 121372
Ion Ratio Lower Upper
152 100
115 58.9 30.6 91.6
150 156.2 0.0 348.6



#74
N-ethyl acetate
Concen: 0.266 ug/l
RT: 12.482 min Scan# 1790
Delta R.T. -0.012 min
Lab File: VN083072.D
Acq: 30 Jul 2024 17:02

Tgt Ion: 43 Resp: 970
Ion Ratio Lower Upper
43 100
70 0.0 29.8 44.6#
55 11.9 18.7 28.1#
61 0.0 17.4 26.0#

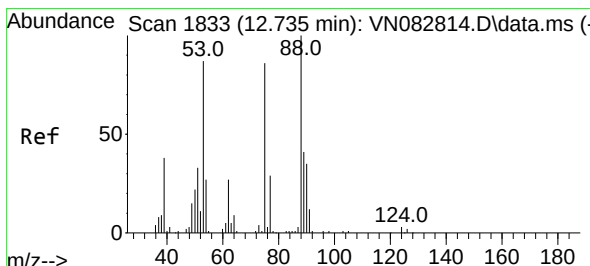
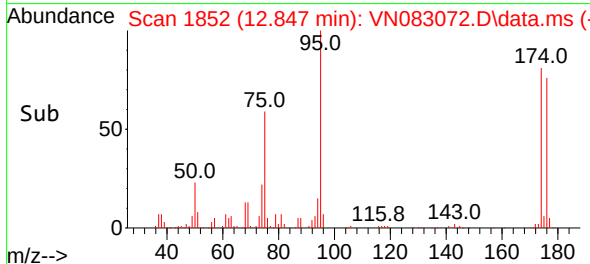
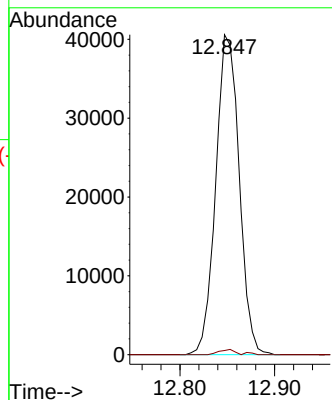
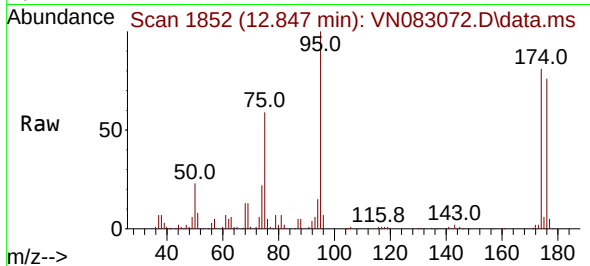




#76
1,2,3-Trichloropropane
Concen: 33.374 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN083072.D
Acq: 30 Jul 2024 17:02

Instrument :
MSVOA_N
ClientSampleId :

Tgt Ion: 75 Resp: 69835
Ion Ratio Lower Upper
75 100
77 1.1 110.9 332.6#



#81
trans-1,4-Dichloro-2-butene
Concen: 65.636 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.106 min
Lab File: VN083072.D
Acq: 30 Jul 2024 17:02

Tgt Ion: 75 Resp: 69835
Ion Ratio Lower Upper
75 100
53 0.2 88.4 132.6#
89 0.0 36.3 54.5#

