

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN073024\
 Data File : VN083069.D
 Acq On : 30 Jul 2024 15:49
 Operator : JC\MD
 Sample : PB162324TB
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

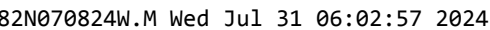
Quant Time: Jul 31 06:02:39 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N070824W.M
 Quant Title : SW846 8260
 QLast Update : Mon Jul 08 13:46:04 2024
 Response via : Initial Calibration

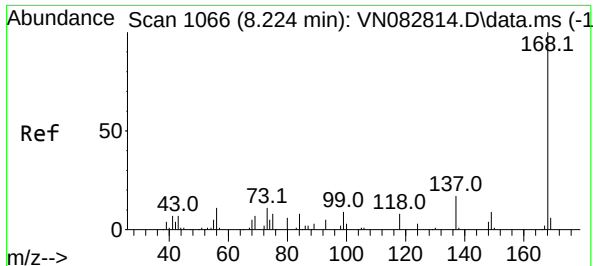
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.229	168	155319	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	325618	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	357365	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	133964	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	130282	59.838	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 119.680%			
35) Dibromofluoromethane	8.171	113	109347	52.334	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 104.660%			
50) Toluene-d8	10.570	98	402517	52.159	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 104.320%			
62) 4-Bromofluorobenzene	12.853	95	136053	49.080	ug/l	0.00
Spiked Amount 50.000	Range 64 - 133		Recovery = 98.160%			
Target Compounds						
					Qvalue	
5) Bromomethane	2.965	94	902	0.625	ug/l	96
6) Chloroethane	3.100	64	476	0.347	ug/l #	41
11) Tert butyl alcohol	5.530	59	263	0.718	ug/l #	71
16) Acetone	4.436	43	45439	59.277	ug/l	97
17) Carbon Disulfide	4.718	76	1435	0.303	ug/l #	75
18) Methyl Acetate	5.012	43	2202	1.086	ug/l #	72
20) Methylene Chloride	5.271	84	15977	8.630	ug/l #	81
25) 2-Butanone	7.494	43	4657	4.023	ug/l #	66
31) Cyclohexane	8.218	56	5166	1.815	ug/l #	67
36) 1,1-Dichloropropene	8.229	75	14064	4.882	ug/l #	51
37) Ethyl Acetate	7.565	43	3347	1.141	ug/l #	88
38) Carbon Tetrachloride	8.224	117	17751	5.118	ug/l #	20
42) 1,2-Dichloroethane	8.688	62	1358	0.426	ug/l #	78
43) Isopropyl Acetate	8.694	43	228766	40.822	ug/l #	85
48) Methyl methacrylate	9.747	41	150755	65.555	ug/l #	54
49) 1,4-Dioxane	9.741	88	190	4.357	ug/l #	1
51) 4-Methyl-2-Pentanone	10.447	43	12490	4.296	ug/l #	78
54) cis-1,3-Dichloropropene	10.359	75	48374	13.322	ug/l #	67
56) Ethyl methacrylate	10.982	69	2634	0.832	ug/l #	1
57) 1,3-Dichloropropane	11.200	76	7320	2.032	ug/l #	44
59) 2-Hexanone	11.206	43	97492	45.099	ug/l #	58
74) N-amyl acetate	12.482	43	1308	0.325	ug/l #	46
76) 1,2,3-Trichloropropane	12.853	75	77433	33.526	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	77433	65.937	ug/l #	6
91) 1,2-Dichlorobenzene	14.117	146	1390	0.316	ug/l	88
93) 1,2,4-Trichlorobenzene	15.388	180	980	0.413	ug/l	70
94) Hexachlorobutadiene	15.505	225	658	0.626	ug/l	95
95) Naphthalene	15.635	128	1822	0.224	ug/l #	78

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

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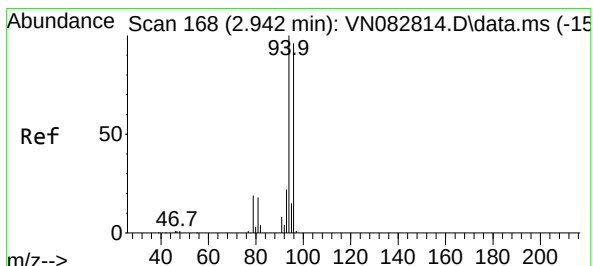
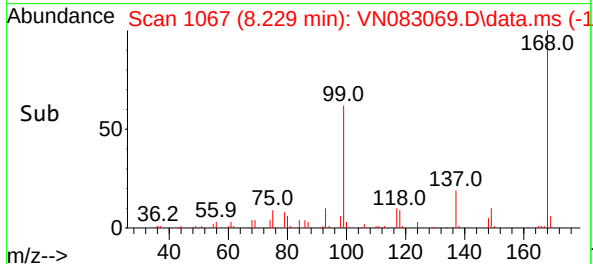
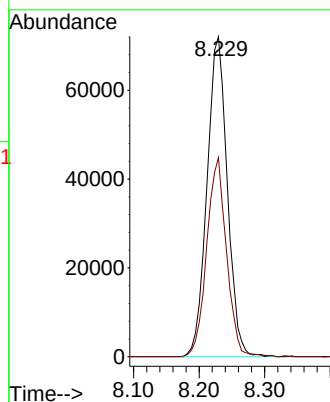
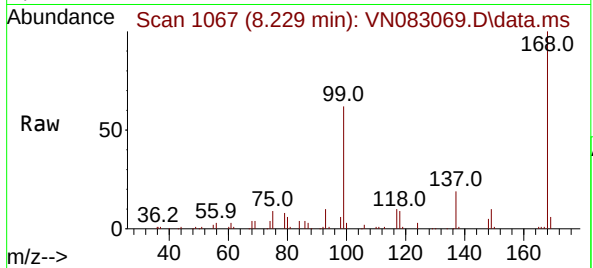




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.229 min Scan# 1066
Delta R.T. 0.000 min
Lab File: VN083069.D
Acq: 30 Jul 2024 15:49

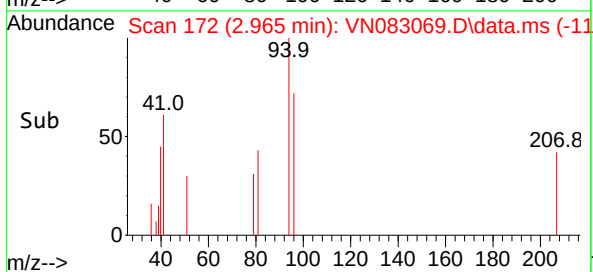
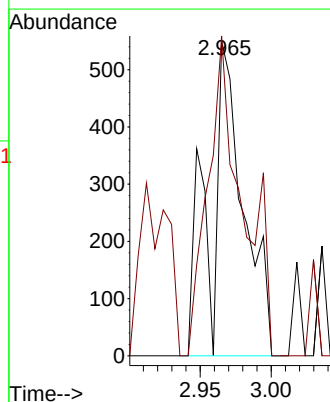
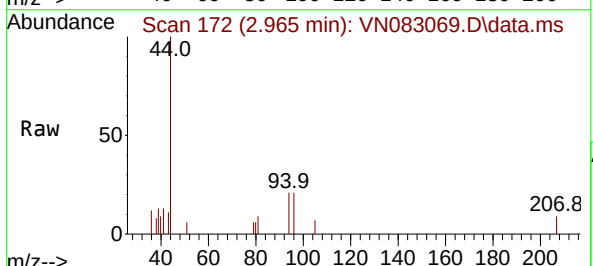
Instrument :
MSVOA_N
ClientSampleId :

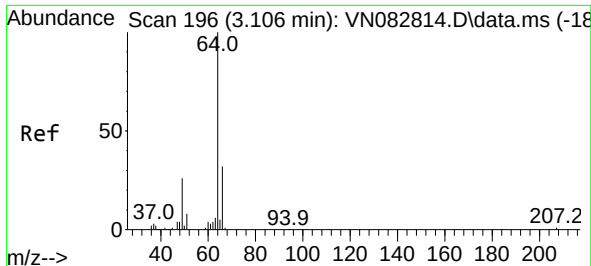
Tgt Ion:168 Resp: 155319
Ion Ratio Lower Upper
168 100
99 62.2 48.2 72.4



#5
Bromomethane
Concen: 0.625 ug/l
RT: 2.965 min Scan# 172
Delta R.T. 0.018 min
Lab File: VN083069.D
Acq: 30 Jul 2024 15:49

Tgt Ion: 94 Resp: 902
Ion Ratio Lower Upper
94 100
96 101.6 78.0 117.0

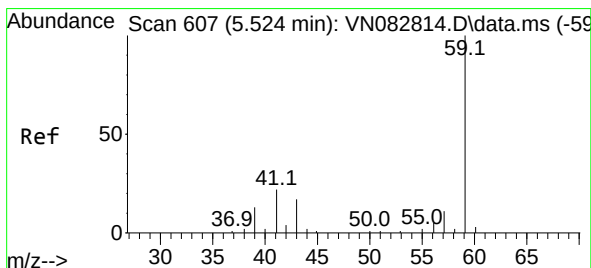
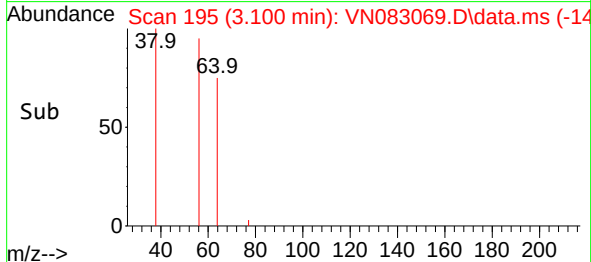
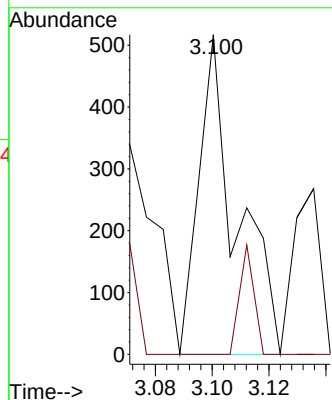
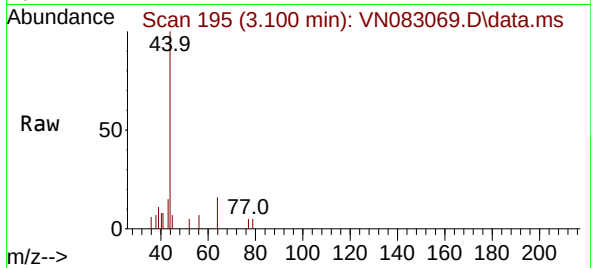




#6
Chloroethane
Concen: 0.347 ug/l
RT: 3.100 min Scan# 195
Delta R.T. -0.012 min
Lab File: VN083069.D
Acq: 30 Jul 2024 15:49

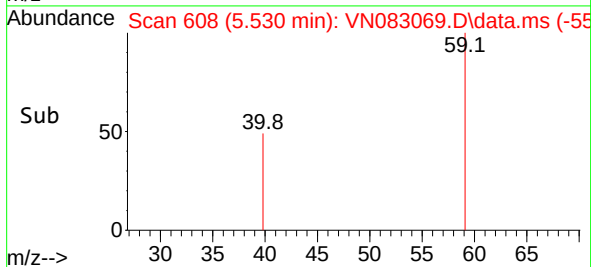
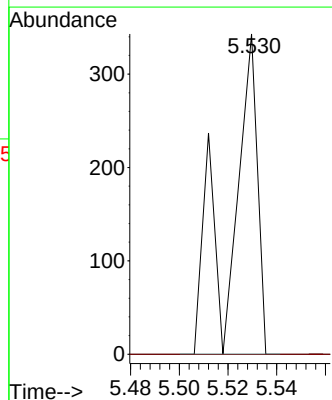
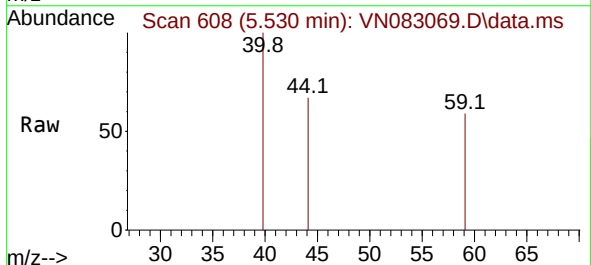
Instrument :
MSVOA_N
ClientSampleId :

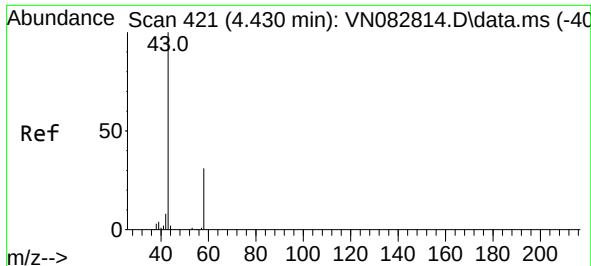
Tgt Ion: 64 Resp: 476
Ion Ratio Lower Upper
64 100
66 0.0 26.6 40.0#



#11
Tert butyl alcohol
Concen: 0.718 ug/l
RT: 5.530 min Scan# 608
Delta R.T. 0.006 min
Lab File: VN083069.D
Acq: 30 Jul 2024 15:49

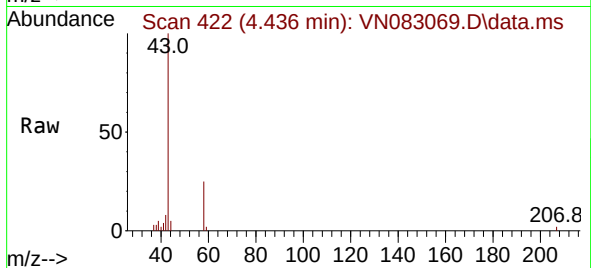
Tgt Ion: 59 Resp: 263
Ion Ratio Lower Upper
59 100
57 0.0 8.9 13.3#



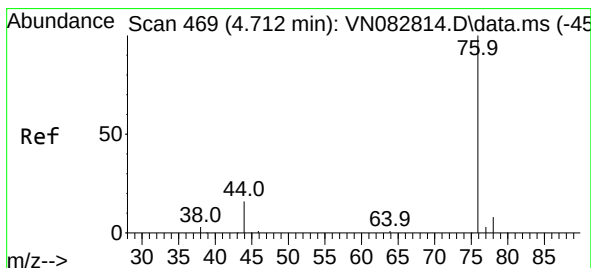
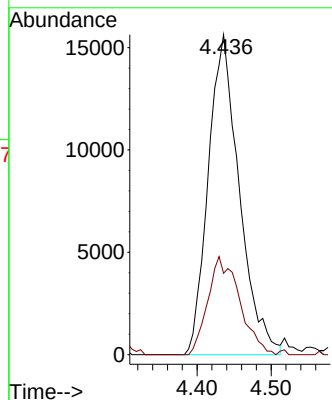
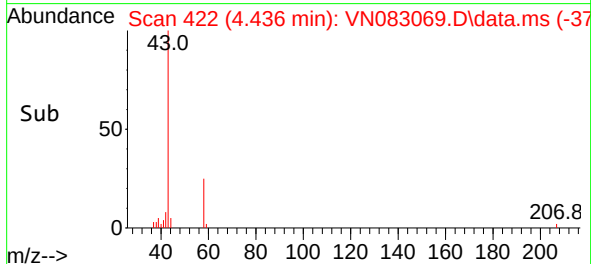


#16
Acetone
Concen: 59.277 ug/l
RT: 4.436 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN083069.D
Acq: 30 Jul 2024 15:49

Instrument :
MSVOA_N
ClientSampleId :

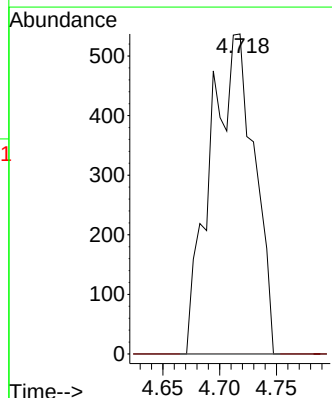
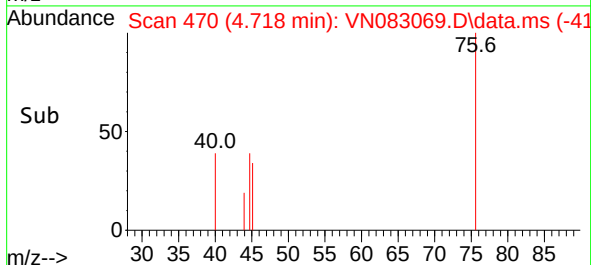
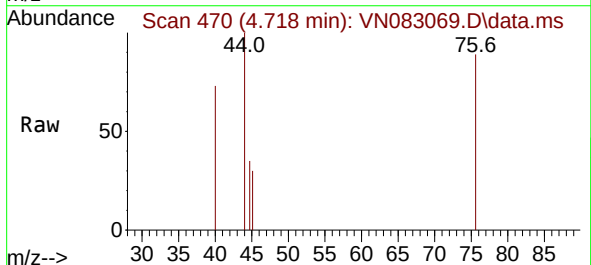


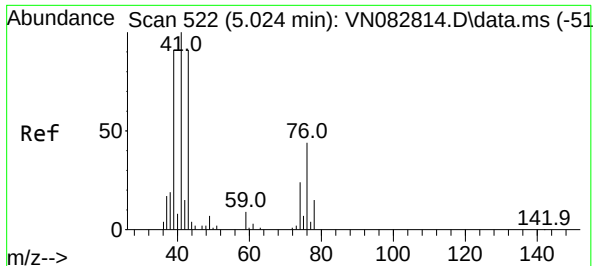
Tgt Ion: 43 Resp: 45439
Ion Ratio Lower Upper
43 100
58 25.4 21.8 32.6



#17
Carbon Disulfide
Concen: 0.303 ug/l
RT: 4.718 min Scan# 470
Delta R.T. 0.006 min
Lab File: VN083069.D
Acq: 30 Jul 2024 15:49

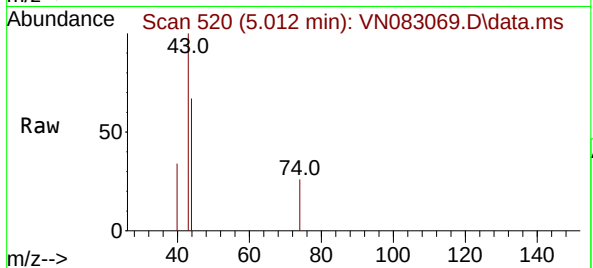
Tgt Ion: 76 Resp: 1435
Ion Ratio Lower Upper
76 100
78 0.0 7.2 10.8#



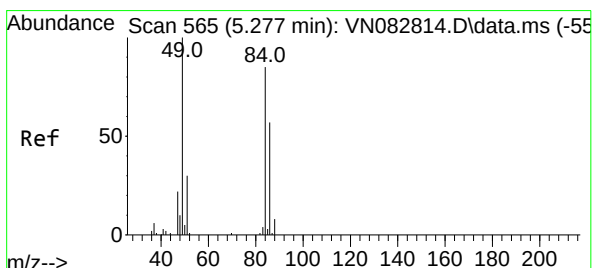
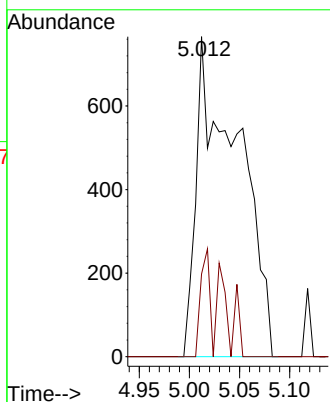
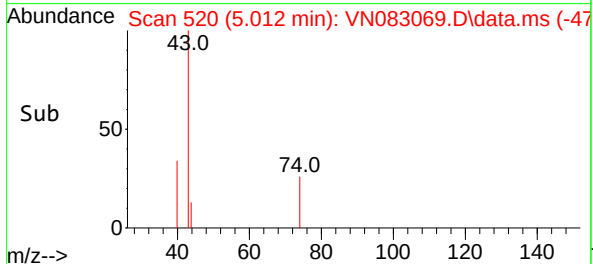


#18
Methyl Acetate
Concen: 1.086 ug/l
RT: 5.012 min Scan# 51
Delta R.T. -0.018 min
Lab File: VN083069.D
Acq: 30 Jul 2024 15:49

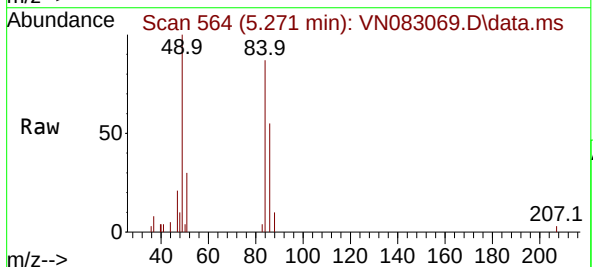
Instrument :
MSVOA_N
ClientSampleId :



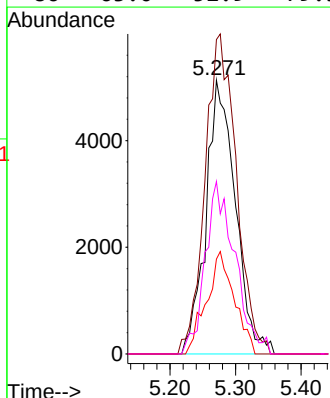
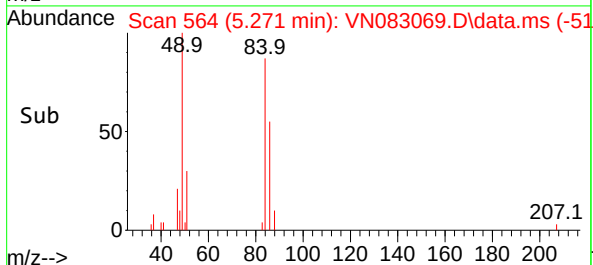
Tgt Ion: 43 Resp: 2202
Ion Ratio Lower Upper
43 100
74 7.3 16.3 24.5#

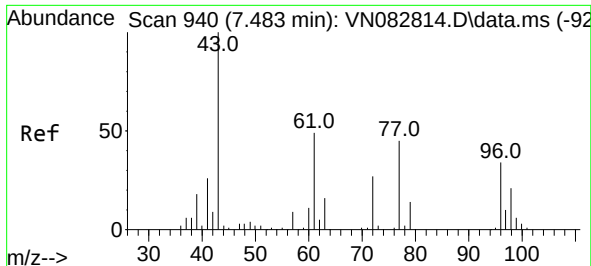


#20
Methylene Chloride
Concen: 8.630 ug/l
RT: 5.271 min Scan# 564
Delta R.T. -0.006 min
Lab File: VN083069.D
Acq: 30 Jul 2024 15:49



Tgt Ion: 84 Resp: 15977
Ion Ratio Lower Upper
84 100
49 114.8 119.6 179.4#
51 34.7 34.8 52.2#
86 63.0 52.9 79.3

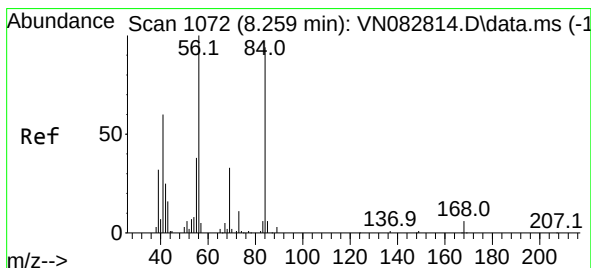
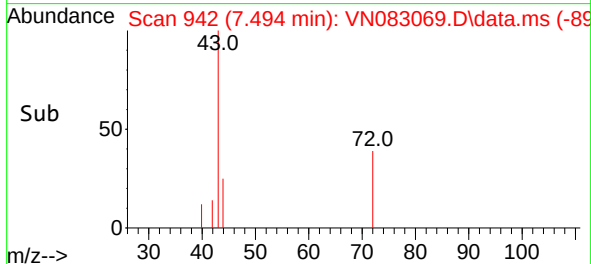
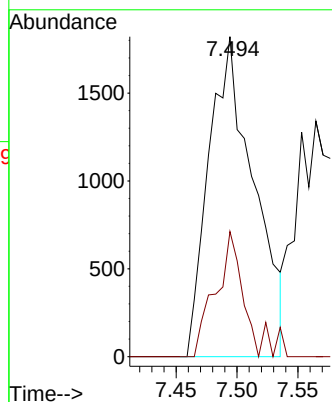
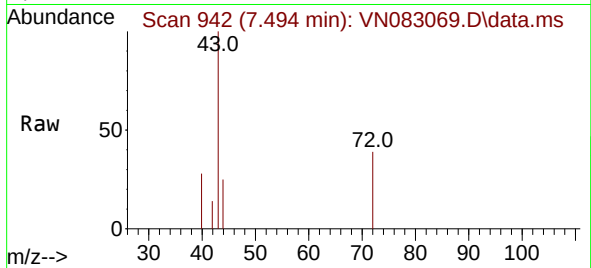




#25
2-Butanone
Concen: 4.023 ug/l
RT: 7.494 min Scan# 940
Delta R.T. 0.006 min
Lab File: VN083069.D
Acq: 30 Jul 2024 15:49

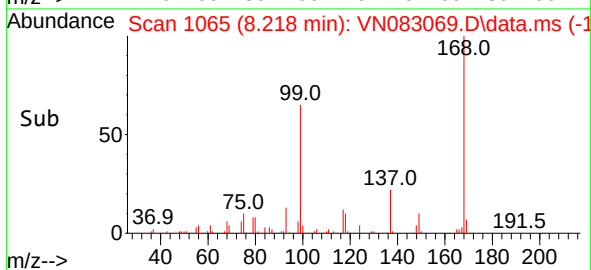
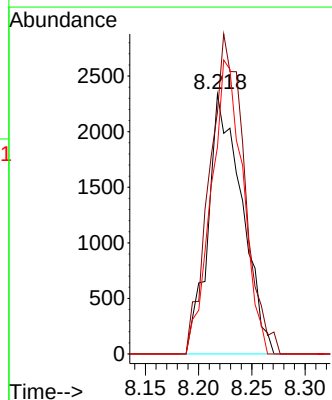
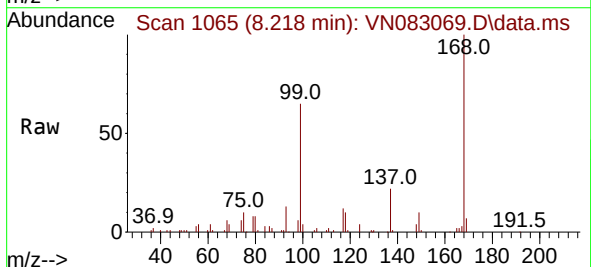
Instrument :
MSVOA_N
ClientSampleId :

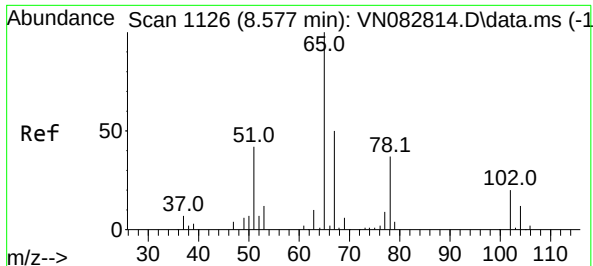
Tgt Ion: 43 Resp: 4657
Ion Ratio Lower Upper
43 100
72 39.1 18.2 27.2#



#31
Cyclohexane
Concen: 1.815 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.041 min
Lab File: VN083069.D
Acq: 30 Jul 2024 15:49

Tgt Ion: 56 Resp: 5166
Ion Ratio Lower Upper
56 100
69 93.1 24.5 36.7#
84 79.7 66.0 99.0





#33

1,2-Dichloroethane-d4

Concen: 59.838 ug/l

RT: 8.582 min Scan# 1127

Delta R.T. 0.000 min

Lab File: VN083069.D

Acq: 30 Jul 2024 15:49

Instrument :

MSVOA_N

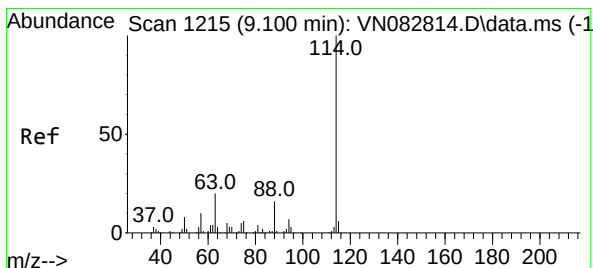
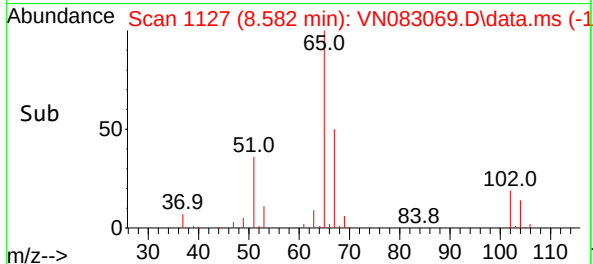
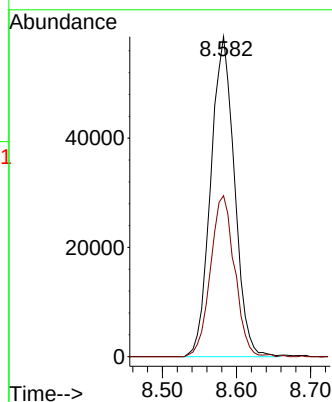
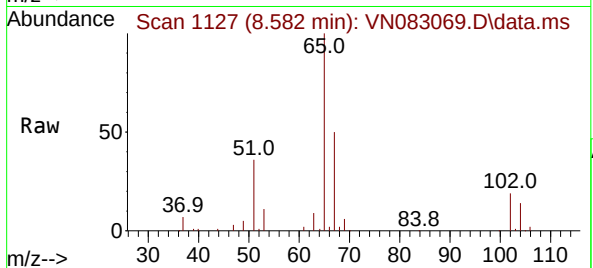
ClientSampleId :

Tgt Ion: 65 Resp: 130282

Ion Ratio Lower Upper

65 100

67 51.2 0.0 104.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. -0.000 min

Lab File: VN083069.D

Acq: 30 Jul 2024 15:49

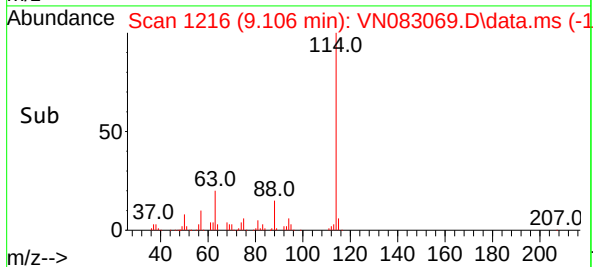
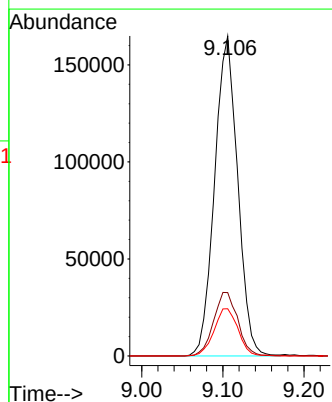
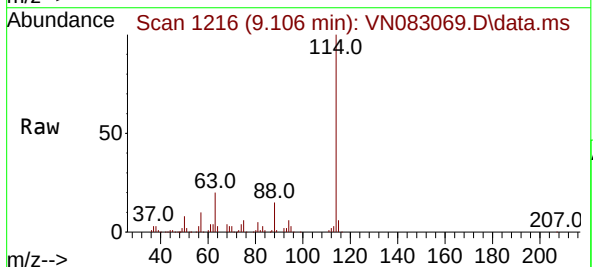
Tgt Ion: 114 Resp: 325618

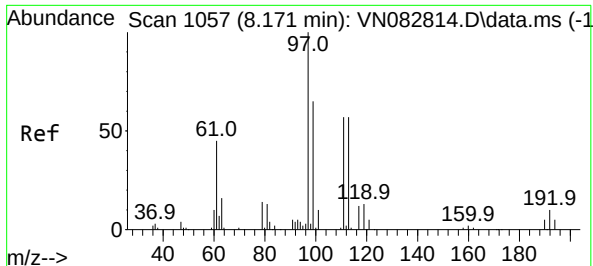
Ion Ratio Lower Upper

114 100

63 19.8 0.0 44.6

88 14.8 0.0 31.4





#35

Dibromofluoromethane

Concen: 52.334 ug/l

RT: 8.171 min Scan# 1057

Delta R.T. 0.006 min

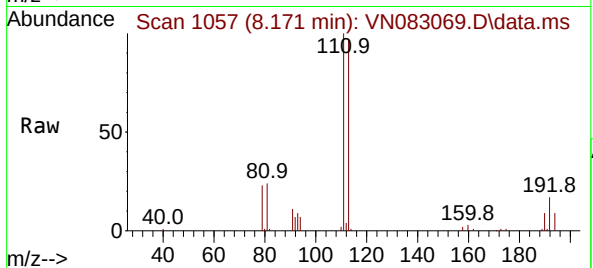
Lab File: VN083069.D

Acq: 30 Jul 2024 15:49

Instrument :

MSVOA_N

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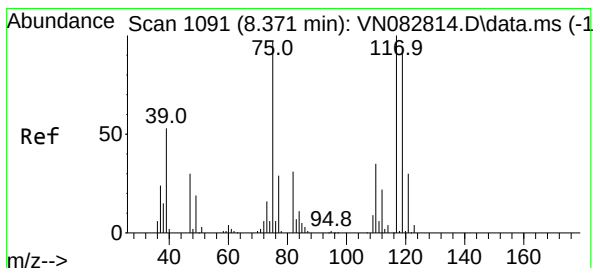
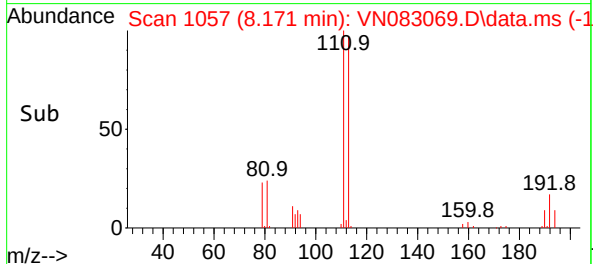
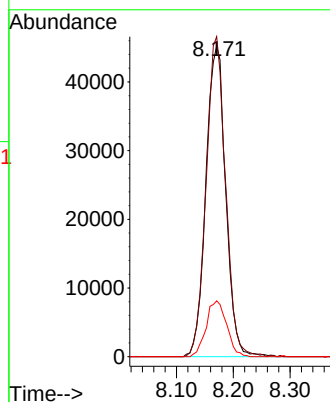
Tgt Ion:113 Resp: 109347

Ion Ratio Lower Upper

113 100

111 101.0 82.4 123.6

192 18.6 14.9 22.3



#36

1,1-Dichloropropene

Concen: 4.882 ug/l

RT: 8.229 min Scan# 1067

Delta R.T. -0.142 min

Lab File: VN083069.D

Acq: 30 Jul 2024 15:49

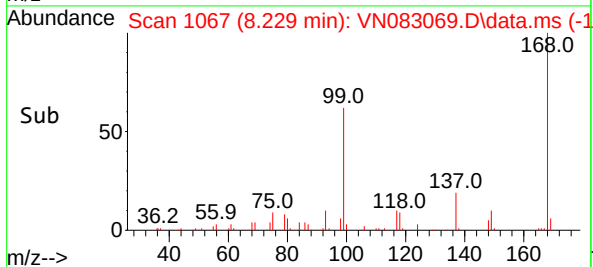
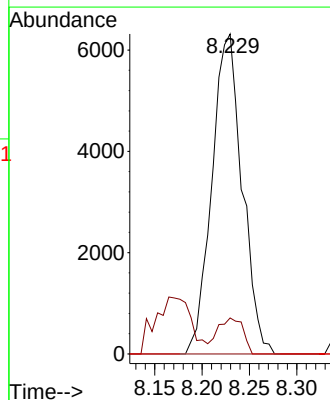
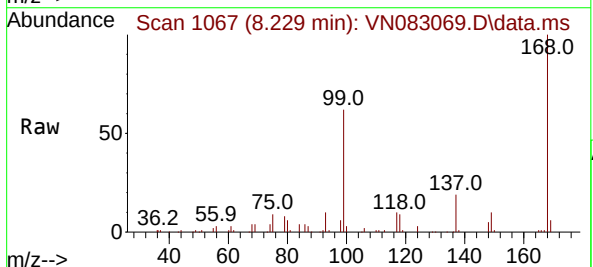
Tgt Ion: 75 Resp: 14064

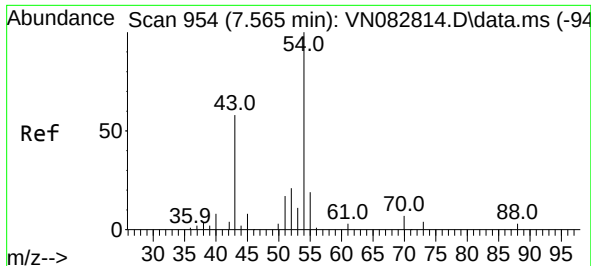
Ion Ratio Lower Upper

75 100

110 9.4 16.3 48.9#

77 0.0 24.6 37.0#





#37

Ethyl Acetate

Concen: 1.141 ug/l

RT: 7.565 min Scan# 91

Delta R.T. -0.000 min

Lab File: VN083069.D

Acq: 30 Jul 2024 15:49

Instrument :

MSVOA_N

ClientSampleId :

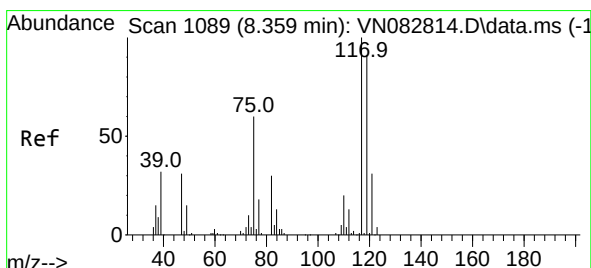
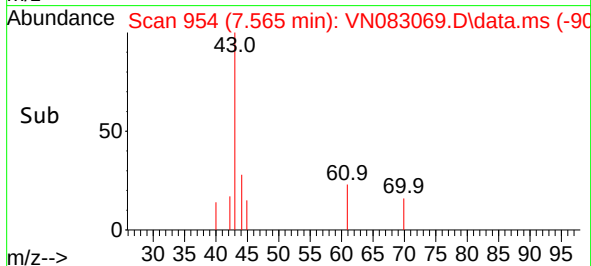
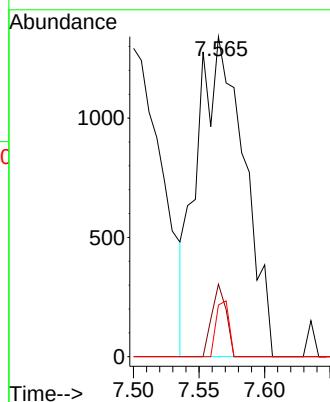
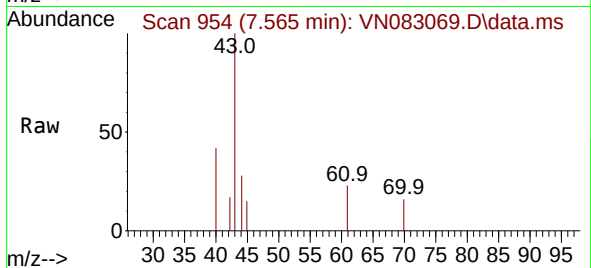
Tgt Ion: 43 Resp: 3347

Ion Ratio Lower Upper

43 100

61 7.0 9.3 13.9#

70 4.8 7.0 10.6#



#38

Carbon Tetrachloride

Concen: 5.118 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.141 min

Lab File: VN083069.D

Acq: 30 Jul 2024 15:49

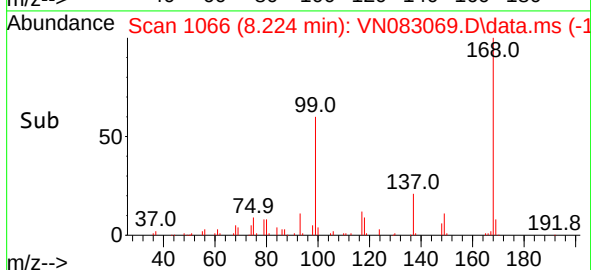
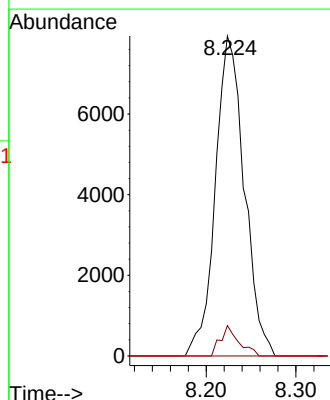
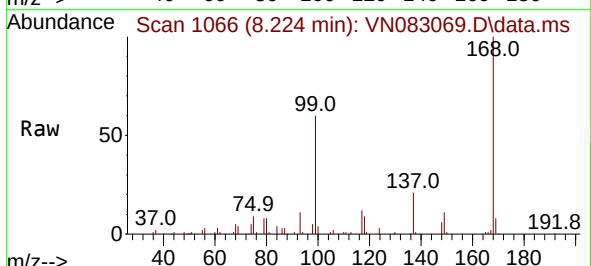
Tgt Ion: 117 Resp: 17751

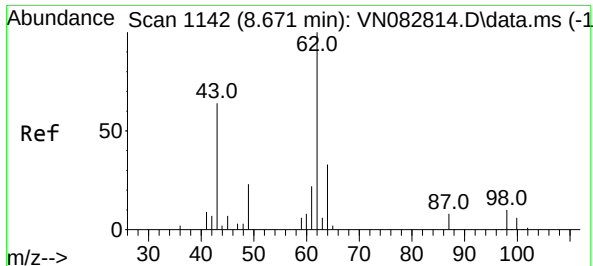
Ion Ratio Lower Upper

117 100

119 9.5 74.9 112.3#

121 0.0 24.3 36.5#

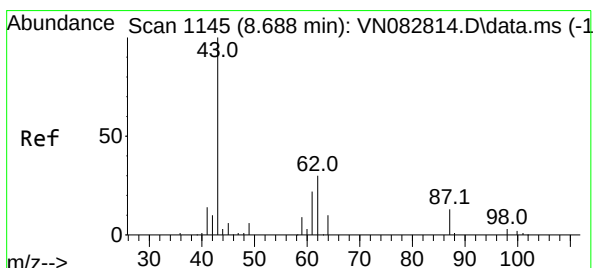
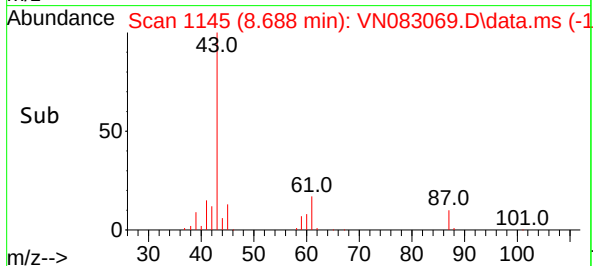
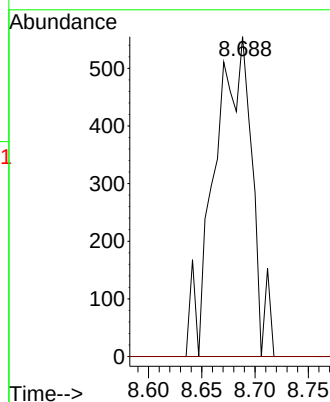
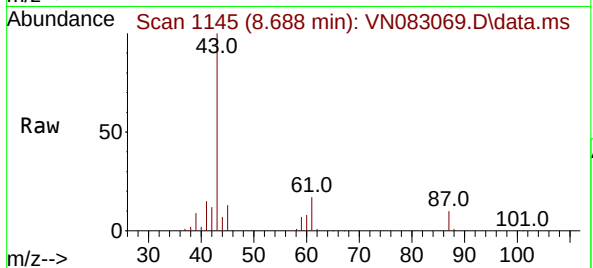




#42
1,2-Dichloroethane
Concen: 0.426 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. 0.017 min
Lab File: VN083069.D
Acq: 30 Jul 2024 15:49

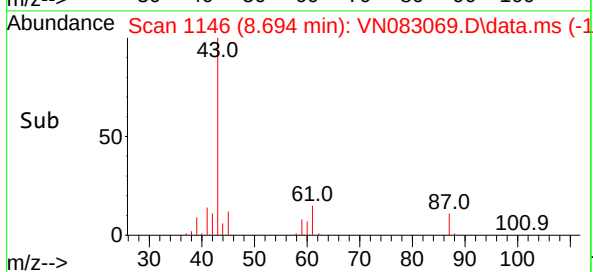
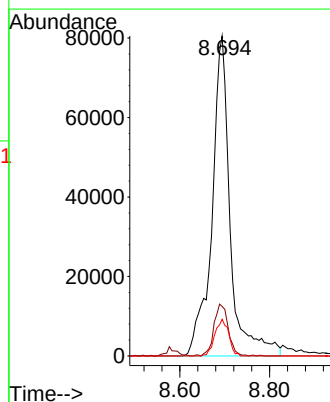
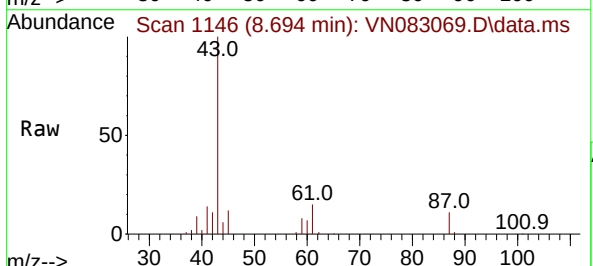
Instrument :
MSVOA_N
ClientSampleId :

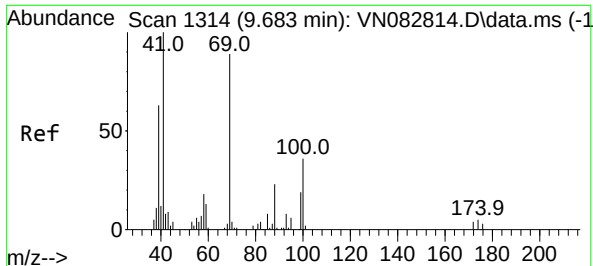
Tgt Ion: 62 Resp: 1358
Ion Ratio Lower Upper
62 100
98 0.0 0.0 15.8



#43
Isopropyl Acetate
Concen: 40.822 ug/l
RT: 8.694 min Scan# 1146
Delta R.T. 0.000 min
Lab File: VN083069.D
Acq: 30 Jul 2024 15:49

Tgt Ion: 43 Resp: 228766
Ion Ratio Lower Upper
43 100
61 12.6 17.8 26.6#
87 8.6 8.2 12.2

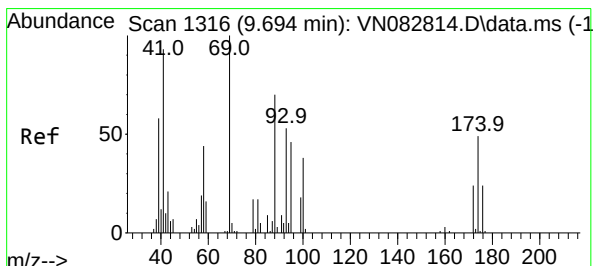
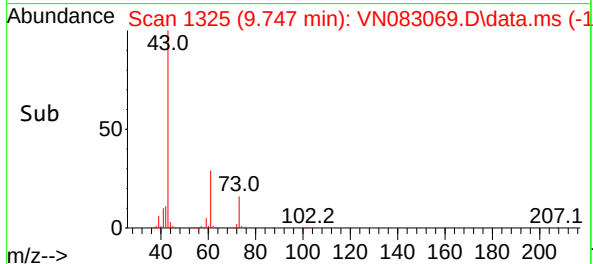
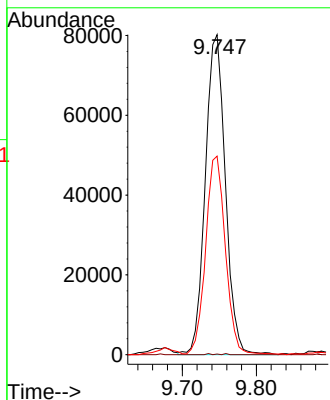
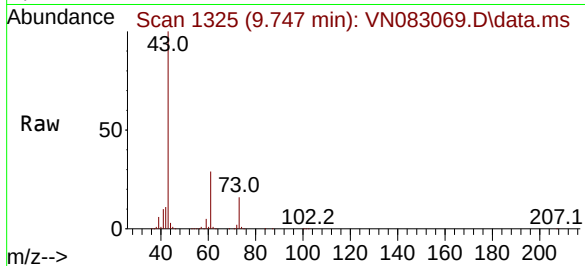




#48
Methyl methacrylate
Concen: 65.555 ug/l
RT: 9.747 min Scan# 11
Delta R.T. 0.065 min
Lab File: VN083069.D
Acq: 30 Jul 2024 15:49

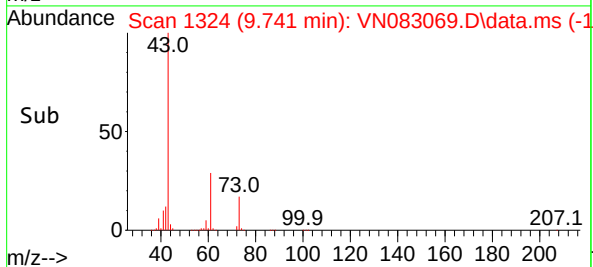
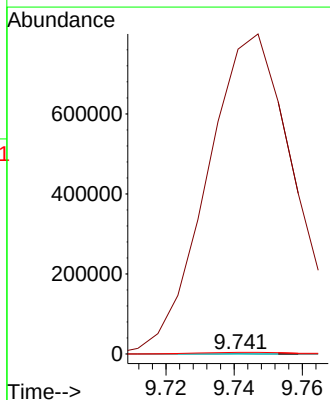
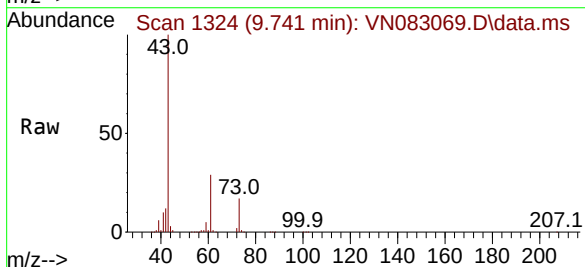
Instrument :
MSVOA_N
ClientSampleId :

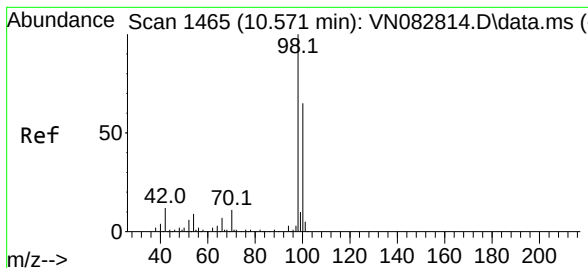
Tgt Ion: 41 Resp: 150755
Ion Ratio Lower Upper
41 100
69 0.1 56.3 84.5#
39 61.3 50.3 75.5



#49
1,4-Dioxane
Concen: 4.357 ug/l
RT: 9.741 min Scan# 1324
Delta R.T. 0.047 min
Lab File: VN083069.D
Acq: 30 Jul 2024 15:49

Tgt Ion: 88 Resp: 190
Ion Ratio Lower Upper
88 100
43 756709.5 27.8 41.8#
58 4168.4 59.4 89.0#

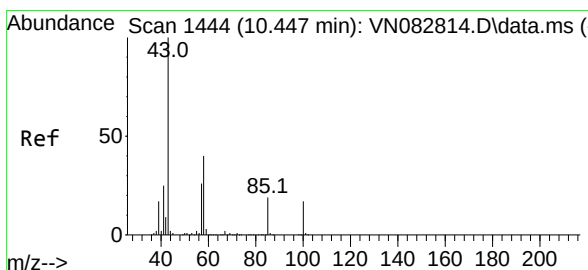
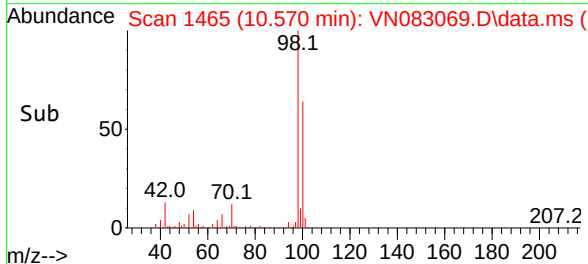
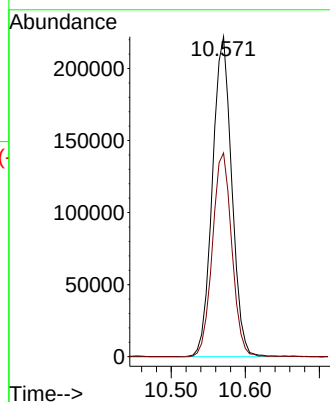
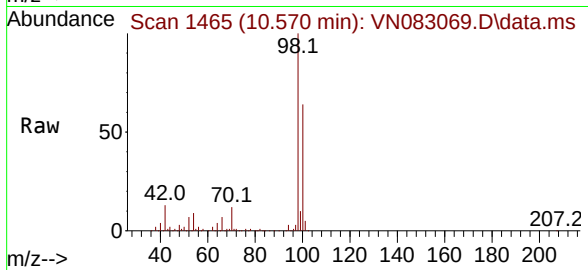




#50
Toluene-d8
Concen: 52.159 ug/l
RT: 10.570 min Scan# 1465
Delta R.T. 0.000 min
Lab File: VN083069.D
Acq: 30 Jul 2024 15:49

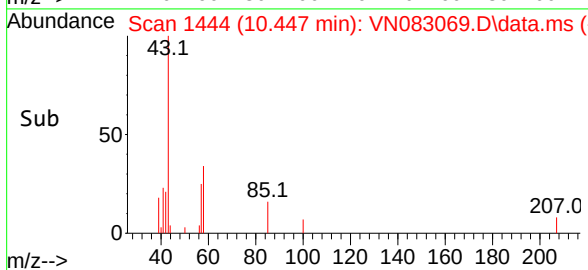
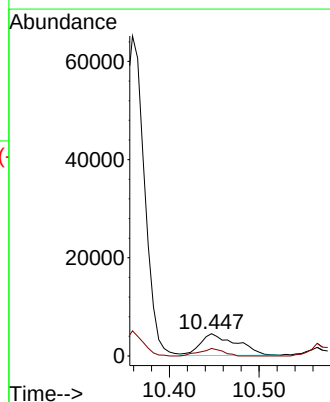
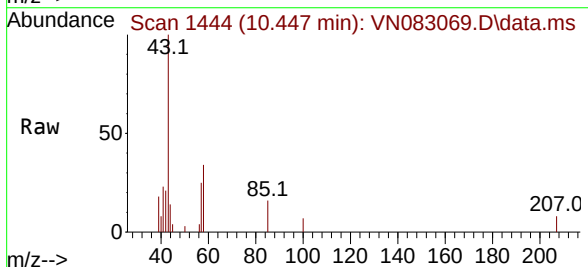
Instrument :
MSVOA_N
ClientSampleId :

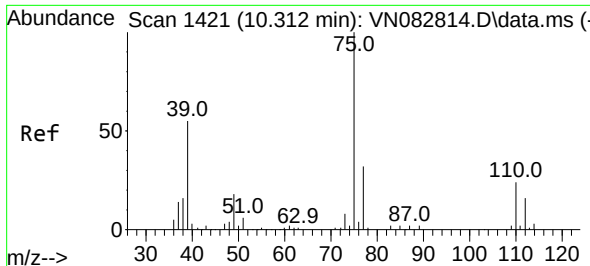
Tgt Ion: 98 Resp: 402517
Ion Ratio Lower Upper
98 100
100 63.7 51.5 77.3



#51
4-Methyl-2-Pentanone
Concen: 4.296 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. -0.000 min
Lab File: VN083069.D
Acq: 30 Jul 2024 15:49

Tgt Ion: 43 Resp: 12490
Ion Ratio Lower Upper
43 100
58 22.2 28.2 42.4#

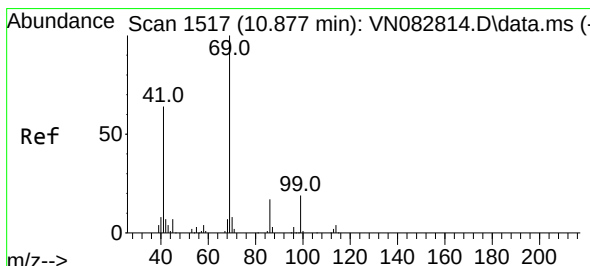
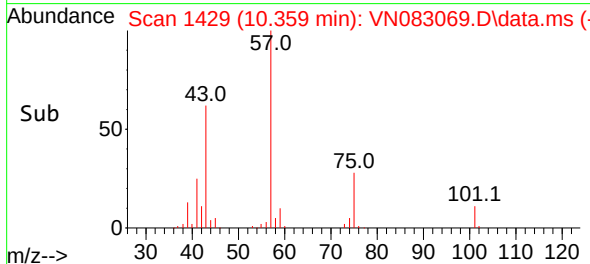
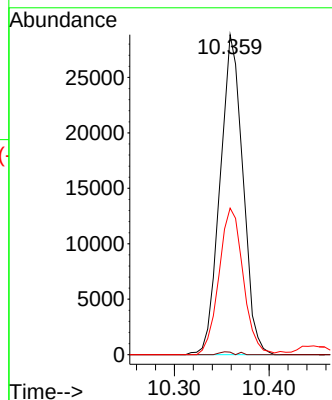
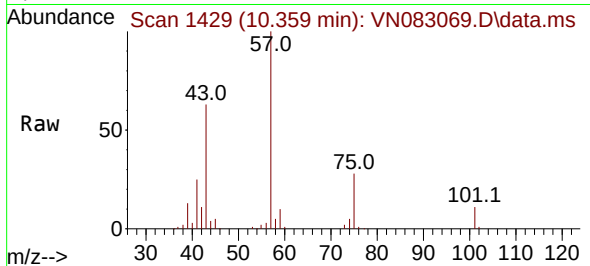




#54
 cis-1,3-Dichloropropene
 Concen: 13.322 ug/l
 RT: 10.359 min Scan# 1429
 Delta R.T. 0.041 min
 Lab File: VN083069.D
 Acq: 30 Jul 2024 15:49

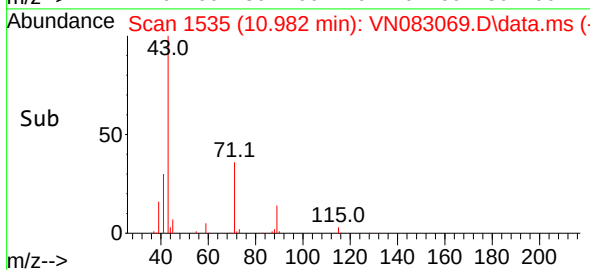
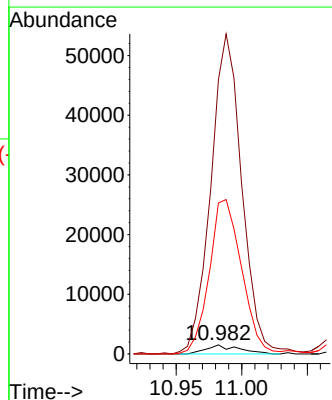
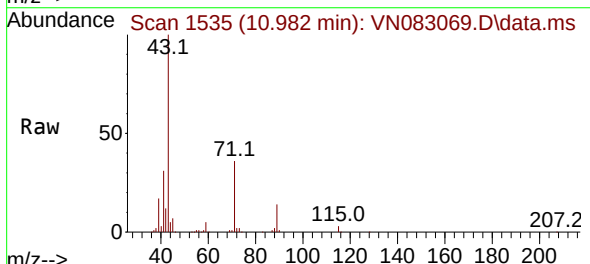
Instrument :
 MSVOA_N
 ClientSampleId :

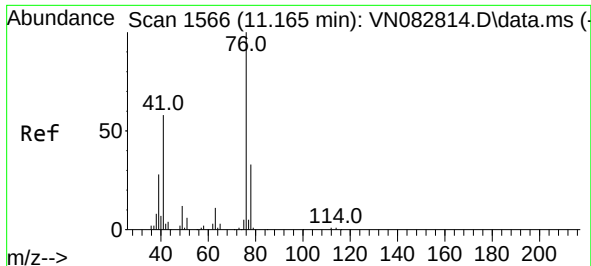
Tgt Ion: 75 Resp: 48374
 Ion Ratio Lower Upper
 75 100
 77 0.8 24.3 36.5#
 39 45.8 50.5 75.7#



#56
 Ethyl methacrylate
 Concen: 0.832 ug/l
 RT: 10.982 min Scan# 1535
 Delta R.T. 0.106 min
 Lab File: VN083069.D
 Acq: 30 Jul 2024 15:49

Tgt Ion: 69 Resp: 2634
 Ion Ratio Lower Upper
 69 100
 41 3359.0 63.4 95.2#
 39 1705.5 37.4 56.0#





#57

1,3-Dichloropropane

Concen: 2.032 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.035 min

Lab File: VN083069.D

Acq: 30 Jul 2024 15:49

Instrument :

MSVOA_N

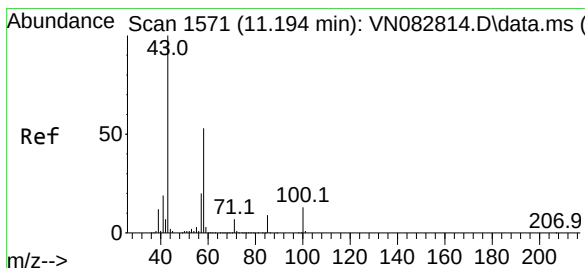
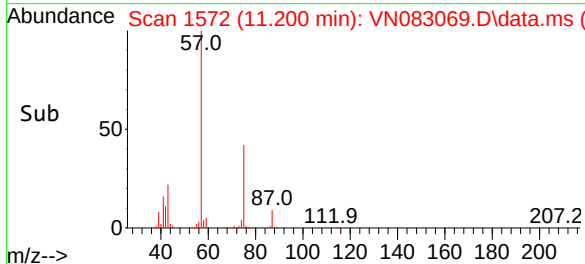
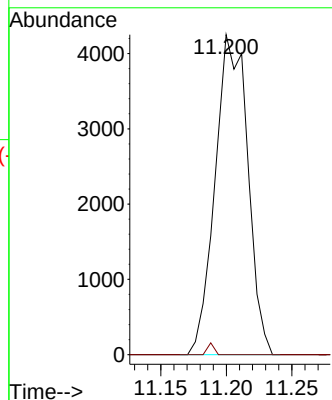
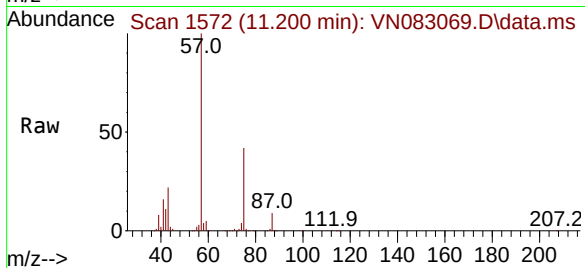
ClientSampleId :

Tgt Ion: 76 Resp: 7320

Ion Ratio Lower Upper

76 100

78 0.8 25.6 38.4#



#59

2-Hexanone

Concen: 45.099 ug/l

RT: 11.206 min Scan# 1573

Delta R.T. 0.006 min

Lab File: VN083069.D

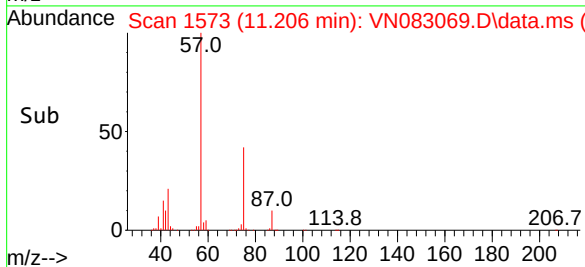
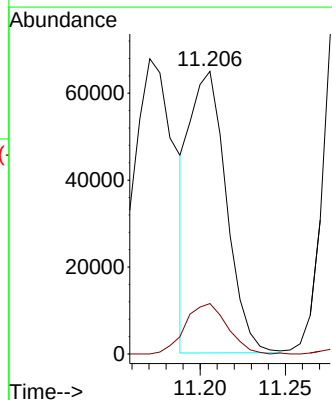
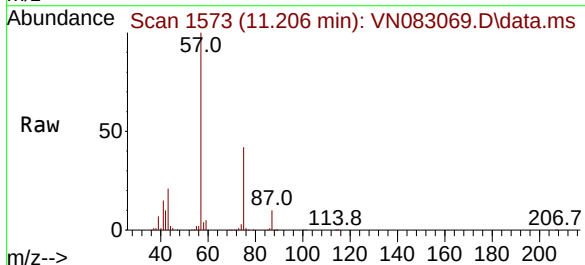
Acq: 30 Jul 2024 15:49

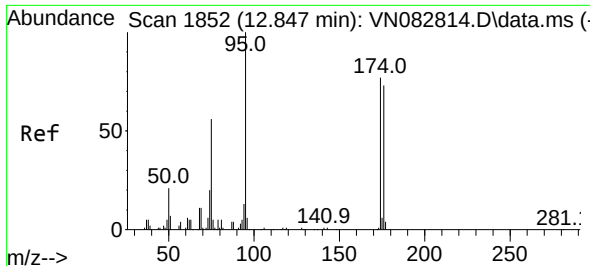
Tgt Ion: 43 Resp: 97492

Ion Ratio Lower Upper

43 100

58 20.5 24.6 73.8#

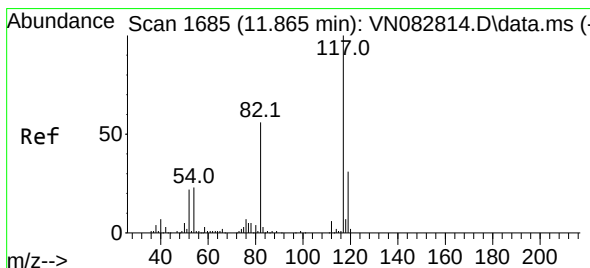
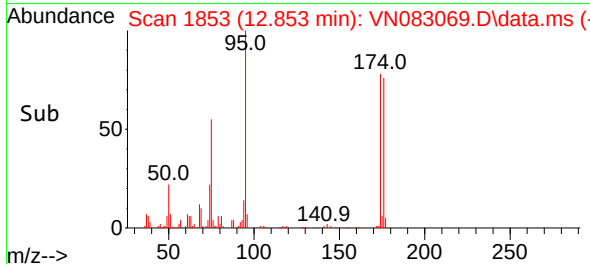
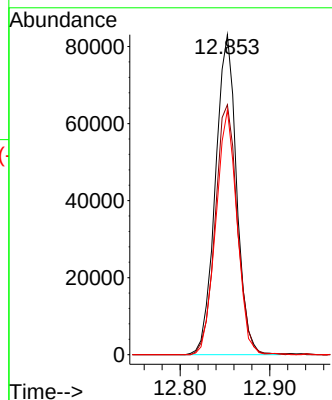
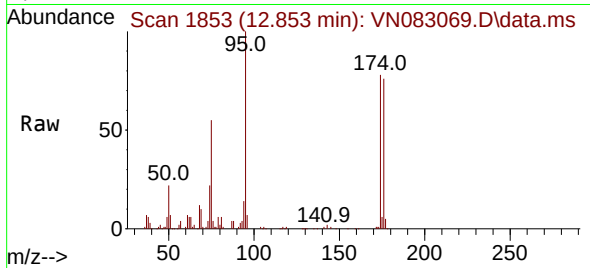




#62
4-Bromofluorobenzene
Concen: 49.080 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.006 min
Lab File: VN083069.D
Acq: 30 Jul 2024 15:49

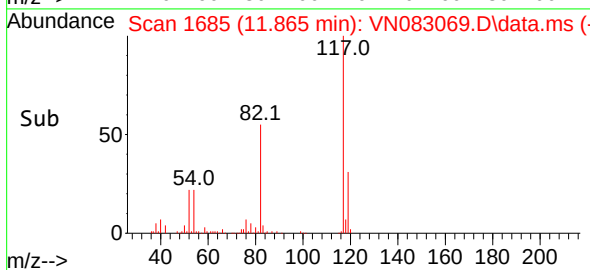
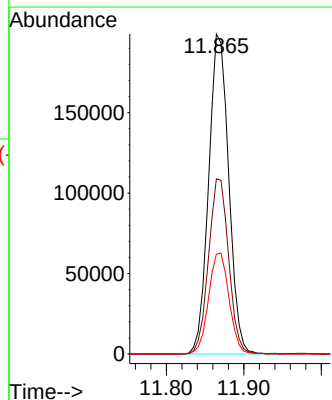
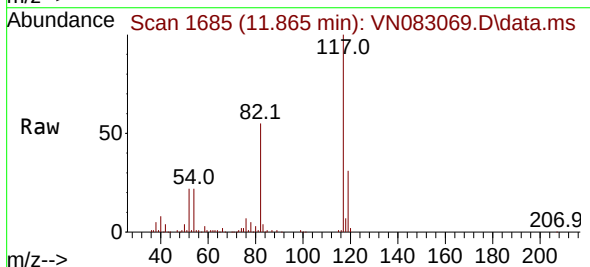
Instrument :
MSVOA_N
ClientSampleId :

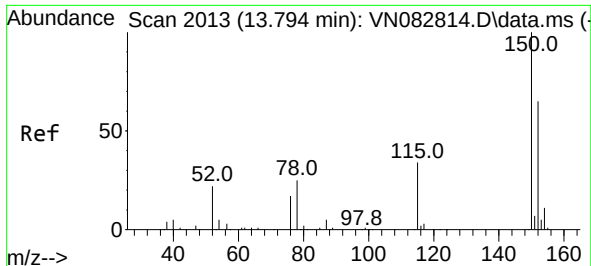
Tgt Ion: 95 Resp: 136053
Ion Ratio Lower Upper
95 100
174 81.7 0.0 159.2
176 76.2 0.0 147.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.005 min
Lab File: VN083069.D
Acq: 30 Jul 2024 15:49

Tgt Ion: 117 Resp: 357365
Ion Ratio Lower Upper
117 100
82 54.7 47.5 71.3
119 31.2 25.6 38.4

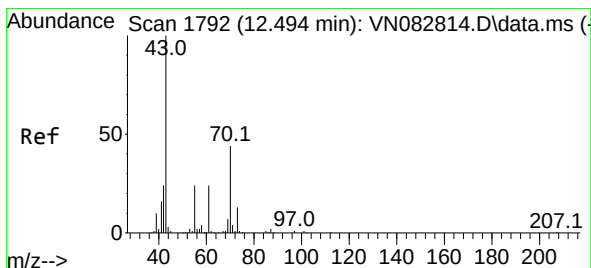
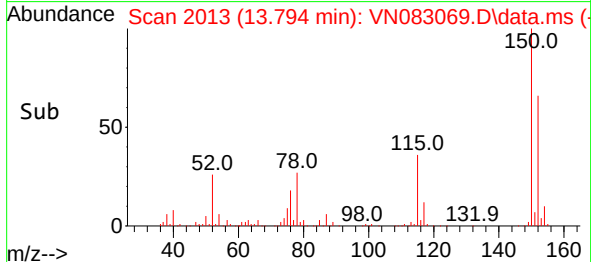
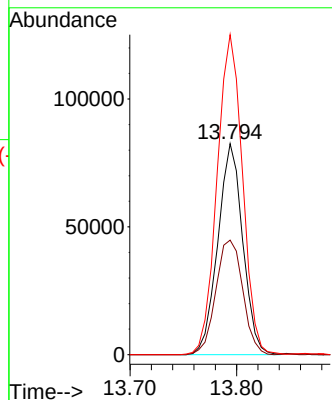
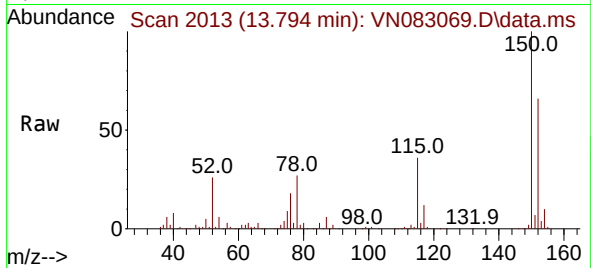




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.794 min Scan# 20
 Delta R.T. -0.000 min
 Lab File: VN083069.D
 Acq: 30 Jul 2024 15:49

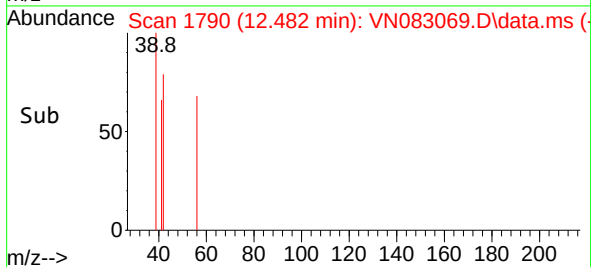
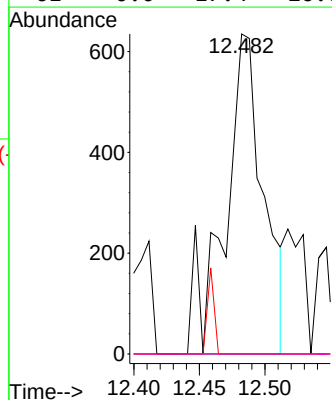
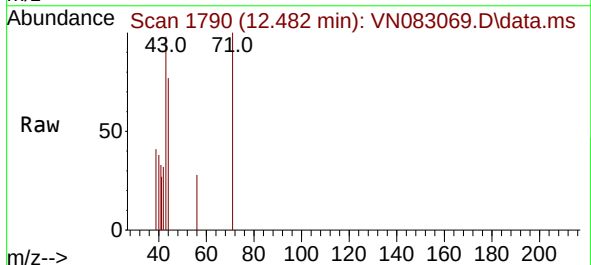
Instrument :
 MSVOA_N
 ClientSampleId :

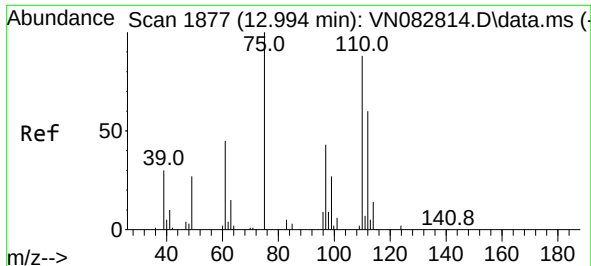
Tgt Ion:152 Resp: 133964
 Ion Ratio Lower Upper
 152 100
 115 58.7 30.6 91.6
 150 154.7 0.0 348.6



#74
 N-ethyl acetate
 Concen: 0.325 ug/l
 RT: 12.482 min Scan# 1790
 Delta R.T. -0.012 min
 Lab File: VN083069.D
 Acq: 30 Jul 2024 15:49

Tgt Ion: 43 Resp: 1308
 Ion Ratio Lower Upper
 43 100
 70 0.0 29.8 44.6#
 55 0.0 18.7 28.1#
 61 0.0 17.4 26.0#

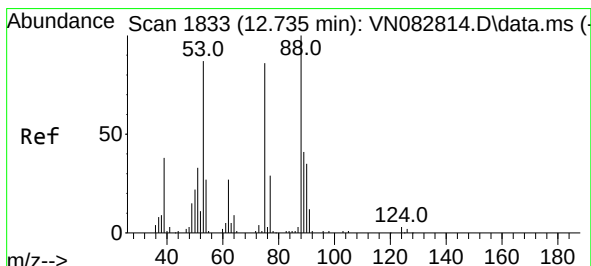
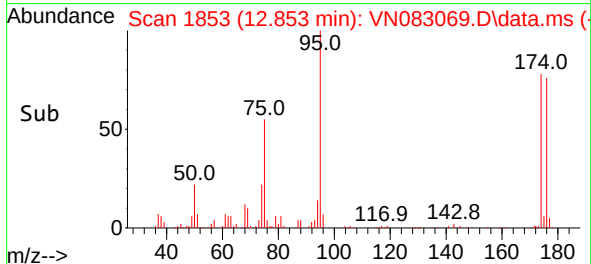
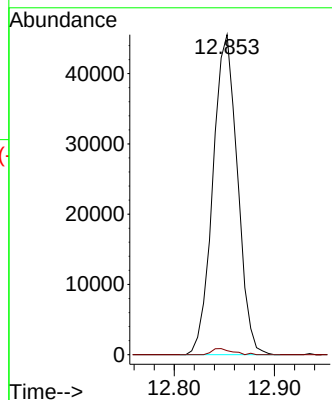
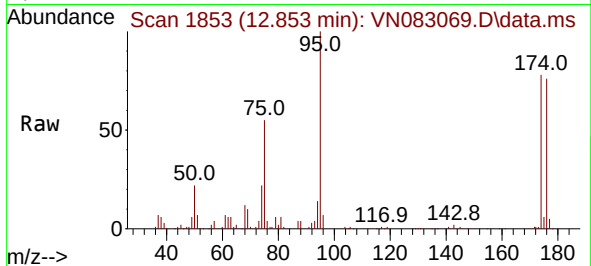




#76
1,2,3-Trichloropropane
Concen: 33.526 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.141 min
Lab File: VN083069.D
Acq: 30 Jul 2024 15:49

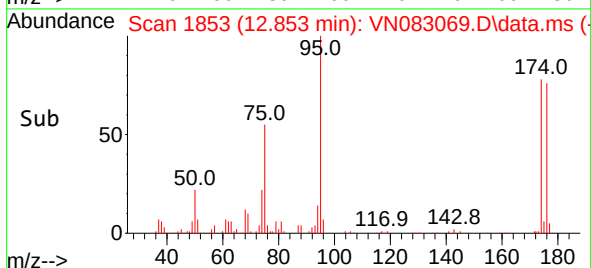
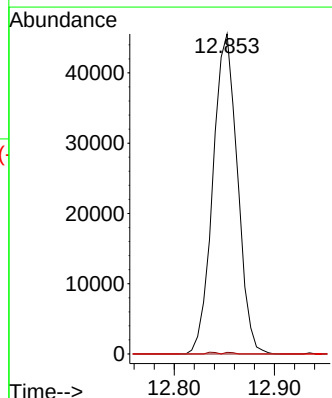
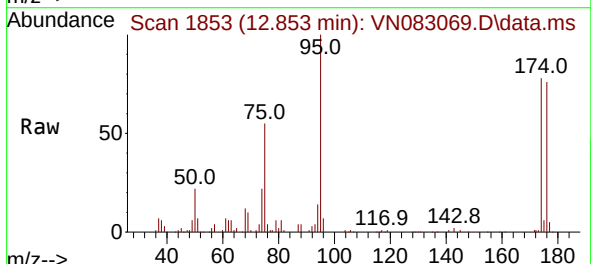
Instrument :
MSVOA_N
ClientSampleId :

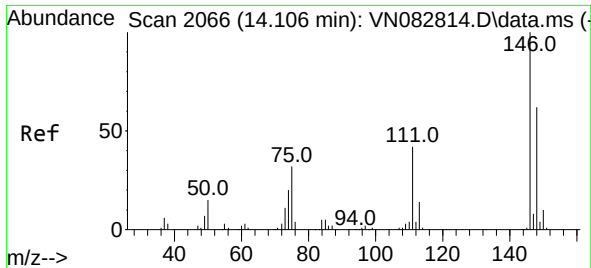
Tgt Ion: 75 Resp: 77433
Ion Ratio Lower Upper
75 100
77 1.6 110.9 332.6#



#81
trans-1,4-Dichloro-2-butene
Concen: 65.937 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.112 min
Lab File: VN083069.D
Acq: 30 Jul 2024 15:49

Tgt Ion: 75 Resp: 77433
Ion Ratio Lower Upper
75 100
53 0.2 88.4 132.6#
89 0.0 36.3 54.5#





#91

1,2-Dichlorobenzene

Concen: 0.316 ug/l

RT: 14.117 min Scan# 2068

Delta R.T. 0.011 min

Lab File: VN083069.D

Acq: 30 Jul 2024 15:49

Instrument :

MSVOA_N

ClientSampleId :

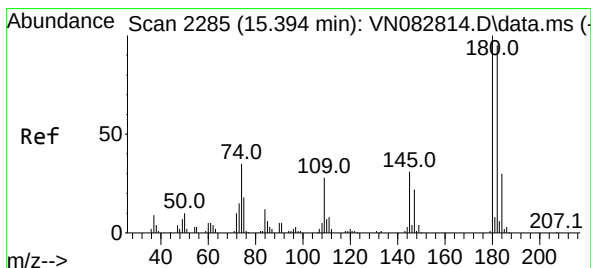
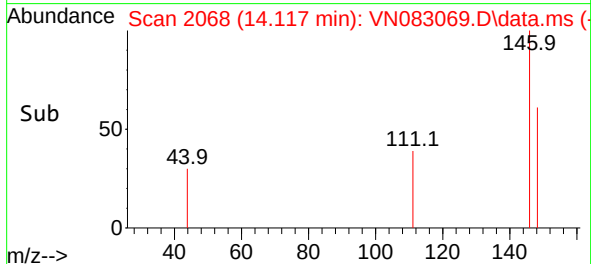
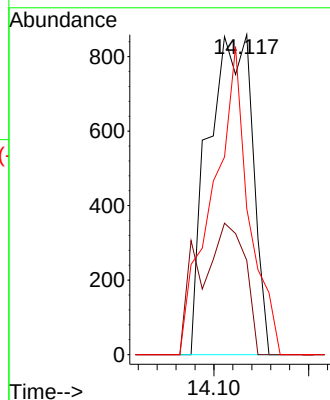
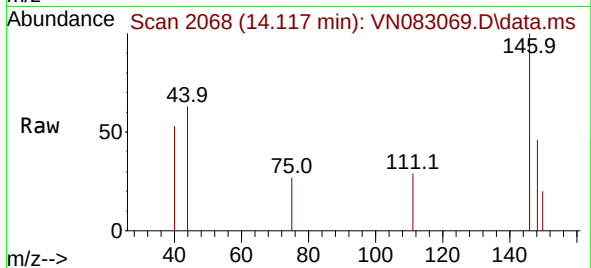
Tgt Ion:146 Resp: 1390

Ion Ratio Lower Upper

146 100

111 42.4 21.4 64.2

148 79.6 32.1 96.5



#93

1,2,4-Trichlorobenzene

Concen: 0.413 ug/l

RT: 15.388 min Scan# 2284

Delta R.T. -0.006 min

Lab File: VN083069.D

Acq: 30 Jul 2024 15:49

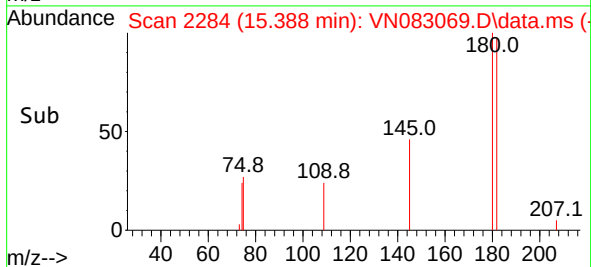
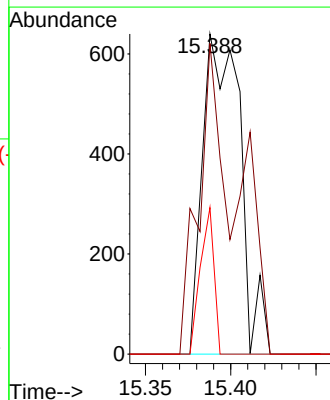
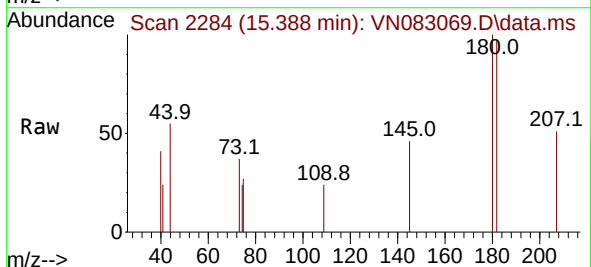
Tgt Ion:180 Resp: 980

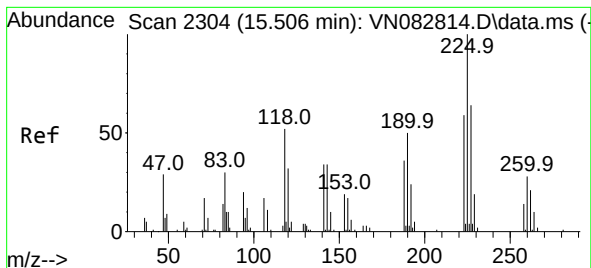
Ion Ratio Lower Upper

180 100

182 64.0 47.3 141.8

145 16.7 15.7 47.1





#94

Hexachlorobutadiene

Concen: 0.626 ug/l

RT: 15.505 min Scan# 21

Delta R.T. 0.000 min

Lab File: VN083069.D

Acq: 30 Jul 2024 15:49

Instrument :

MSVOA_N

ClientSampleId :

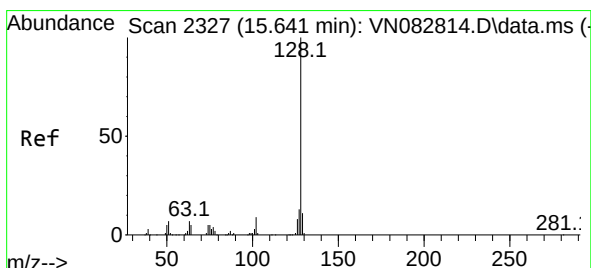
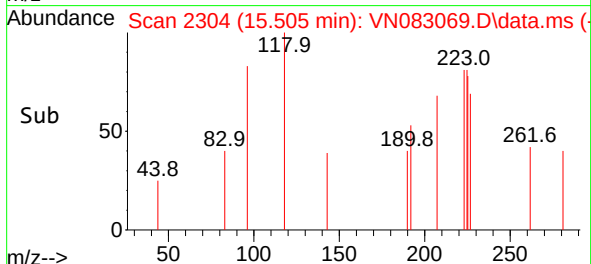
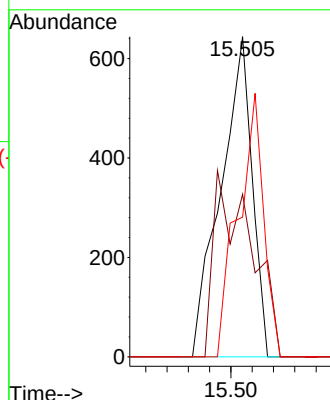
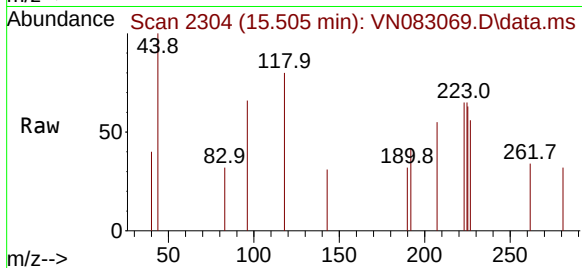
Tgt Ion:225 Resp: 658

Ion Ratio Lower Upper

225 100

223 69.3 31.9 95.7

227 67.5 32.5 97.5



#95

Naphthalene

Concen: 0.224 ug/l

RT: 15.635 min Scan# 2326

Delta R.T. -0.006 min

Lab File: VN083069.D

Acq: 30 Jul 2024 15:49

Tgt Ion:128 Resp: 1822

Ion Ratio Lower Upper

128 100

127 4.1 10.6 16.0#

129 3.1 8.6 12.8#

