

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120924\
 Data File : VN085149.D
 Acq On : 09 Dec 2024 13:46
 Operator : JC\MD
 Sample : P5096-04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MH-B

Quant Time: Dec 10 05:01:00 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112224W.M
 Quant Title : SW846 8260
 QLast Update : Sat Nov 23 02:54:10 2024
 Response via : Initial Calibration

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

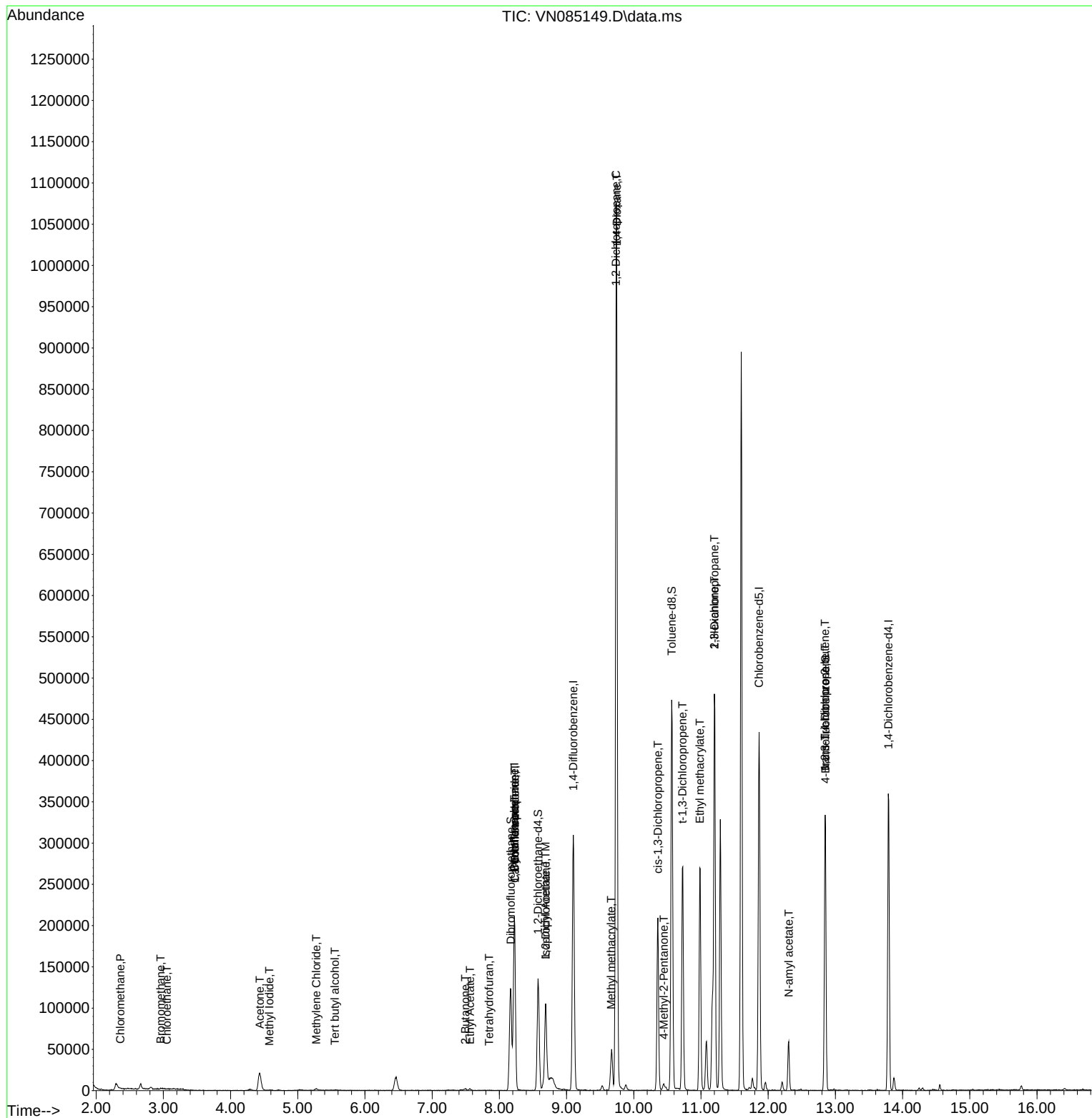
Internal Standards						
1) Pentafluorobenzene	8.224	168	148314	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	268355	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	248392	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	97668	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	110902	52.495	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 104.980%			
35) Dibromofluoromethane	8.171	113	90209	49.848	ug/l	0.01
Spiked Amount 50.000	Range 75 - 124		Recovery = 99.700%			
50) Toluene-d8	10.565	98	327641	50.519	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 101.040%			
62) 4-Bromofluorobenzene	12.853	95	116435	48.007	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 96.020%			
Target Compounds						Qvalue
3) Chloromethane	2.359	50	482	0.248	ug/l #	40
5) Bromomethane	2.959	94	711	0.726	ug/l #	50
6) Chloroethane	3.053	64	430	0.365	ug/l #	44
10) Methyl Iodide	4.577	142	505	0.226	ug/l #	39
11) Tert butyl alcohol	5.553	59	65	0.230	ug/l #	75
16) Acetone	4.436	43	41579	67.578	ug/l	98
18) Methyl Acetate	5.030	43	1363	Below Cal	#	70
20) Methylene Chloride	5.277	84	1480	0.788	ug/l #	93
25) 2-Butanone	7.494	43	3798	3.776	ug/l	97
29) Tetrahydrofuran	7.847	42	164	0.262	ug/l #	31
31) Cyclohexane	8.224	56	3310	1.176	ug/l #	20
36) 1,1-Dichloropropene	8.229	75	12606	5.143	ug/l #	50
37) Ethyl Acetate	7.565	43	3154	1.415	ug/l #	81
38) Carbon Tetrachloride	8.229	117	15405	5.445	ug/l #	16
42) 1,2-Dichloroethane	8.688	62	953	0.359	ug/l #	75
43) Isopropyl Acetate	8.688	43	124645	26.928	ug/l #	87
45) 1,2-Dichloropropane	9.735	63	1323	0.693	ug/l #	45
48) Methyl methacrylate	9.665	41	3174	1.843	ug/l #	40
49) 1,4-Dioxane	9.747	88	69	2.310	ug/l #	1
51) 4-Methyl-2-Pentanone	10.447	43	9191	4.347	ug/l #	76
53) t-1,3-Dichloropropene	10.723	75	564	0.200	ug/l #	68
54) cis-1,3-Dichloropropene	10.359	75	38110	12.742	ug/l #	60
56) Ethyl methacrylate	10.982	69	1395	0.558	ug/l #	1
57) 1,3-Dichloropropane	11.200	76	4994	1.660	ug/l #	42
59) 2-Hexanone	11.200	43	59145	37.404	ug/l #	53
74) N-amyl acetate	12.306	43	17832	6.281	ug/l #	53
76) 1,2,3-Trichloropropane	12.847	75	60625	34.126	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	60625	75.335	ug/l #	10

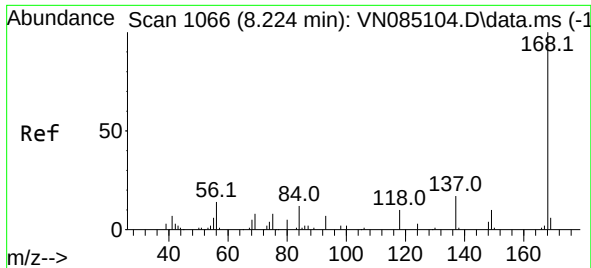
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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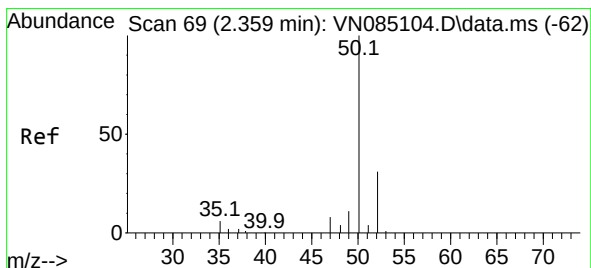
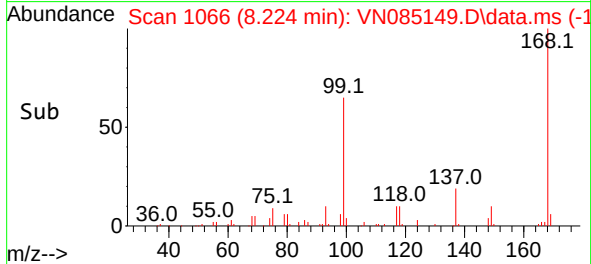
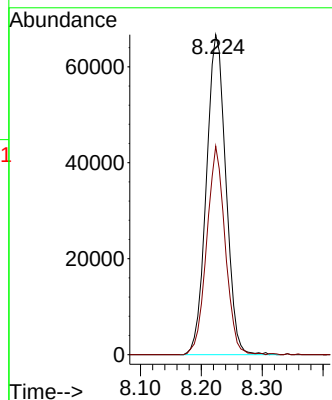
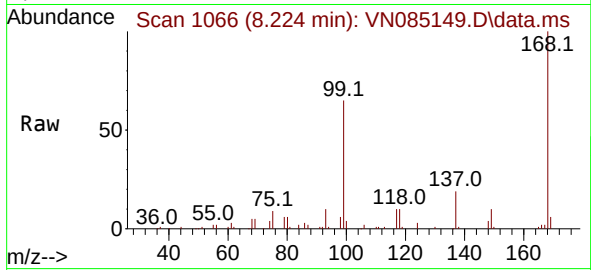




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. 0.006 min
Lab File: VN085149.D
Acq: 09 Dec 2024 13:46

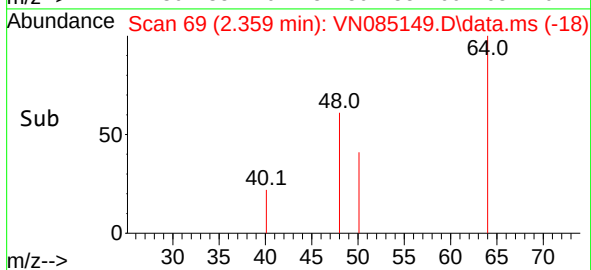
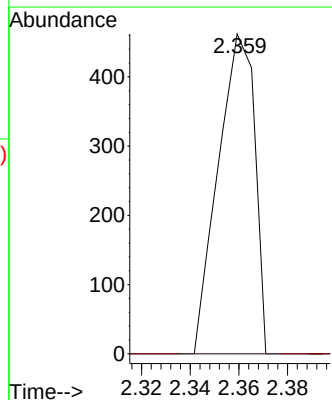
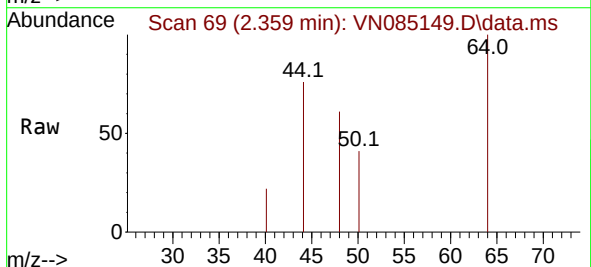
Instrument :
MSVOA_N
ClientSampleId :
MH-B

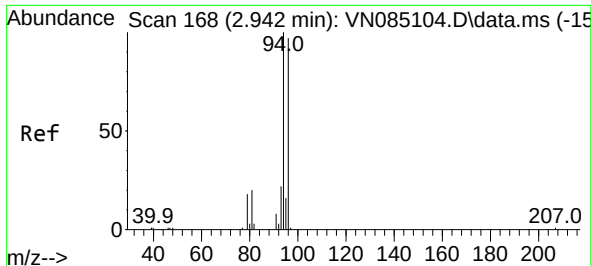
Tgt Ion:168 Resp: 148314
Ion Ratio Lower Upper
168 100
99 65.1 51.2 76.8



#3
Chloromethane
Concen: 0.248 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.000 min
Lab File: VN085149.D
Acq: 09 Dec 2024 13:46

Tgt Ion: 50 Resp: 482
Ion Ratio Lower Upper
50 100
52 0.0 27.8 41.8#

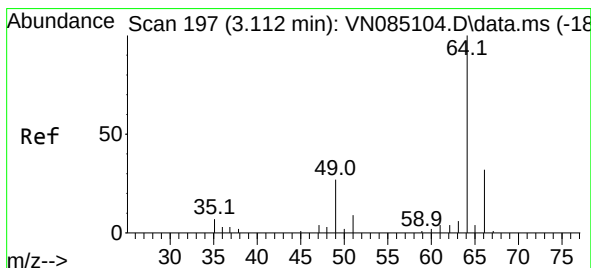
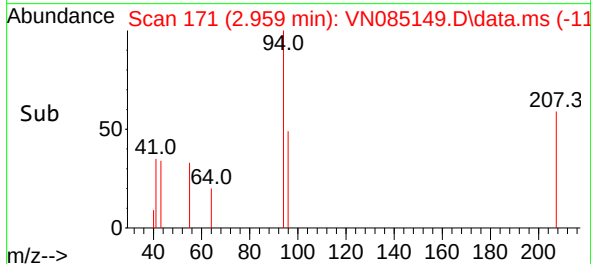
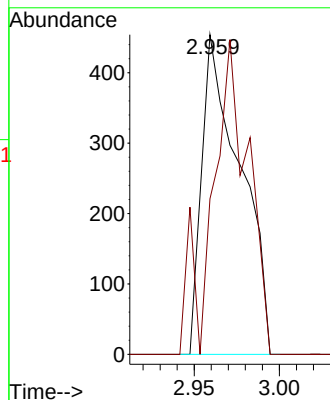
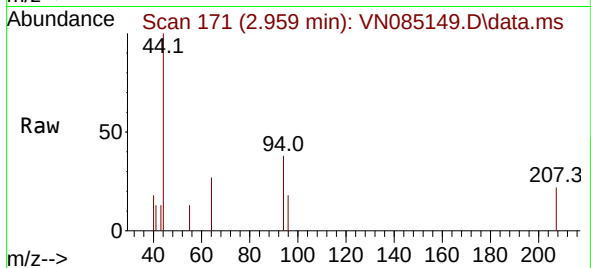




#5
Bromomethane
Concen: 0.726 ug/l
RT: 2.959 min Scan# 11
Delta R.T. 0.059 min
Lab File: VN085149.D
Acq: 09 Dec 2024 13:46

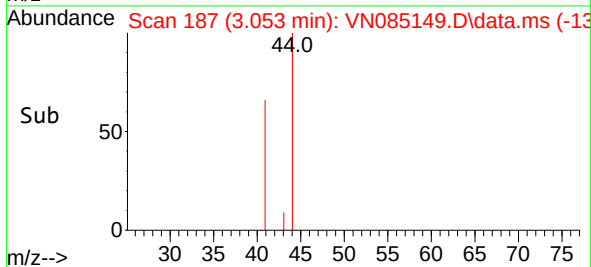
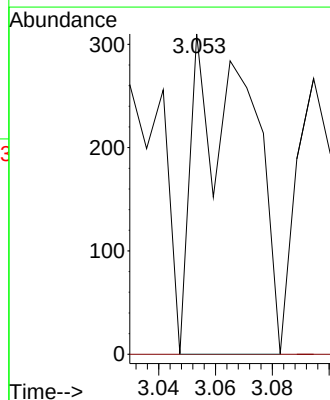
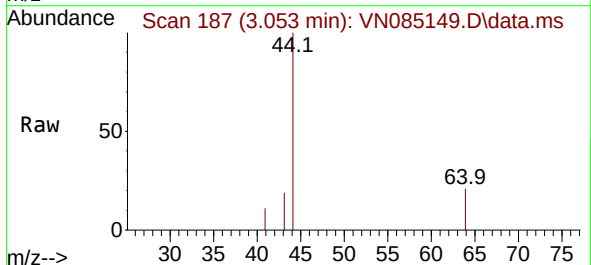
Instrument :
MSVOA_N
ClientSampleId :
MH-B

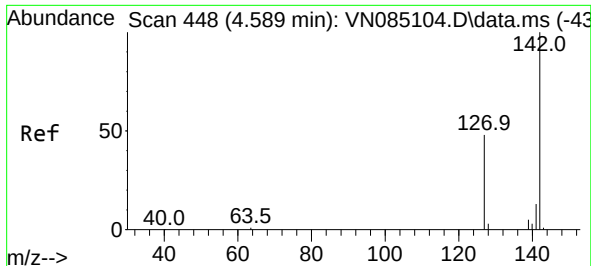
Tgt Ion: 94 Resp: 711
Ion Ratio Lower Upper
94 100
96 48.7 78.7 118.1#



#6
Chloroethane
Concen: 0.365 ug/l
RT: 3.053 min Scan# 187
Delta R.T. -0.012 min
Lab File: VN085149.D
Acq: 09 Dec 2024 13:46

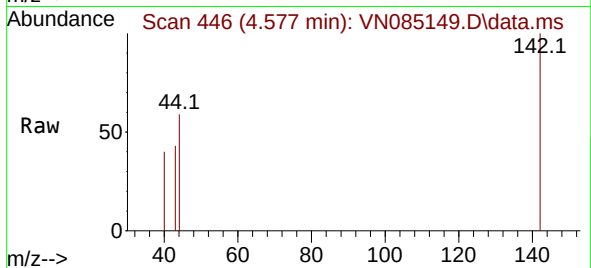
Tgt Ion: 64 Resp: 430
Ion Ratio Lower Upper
64 100
66 0.0 24.4 36.6#



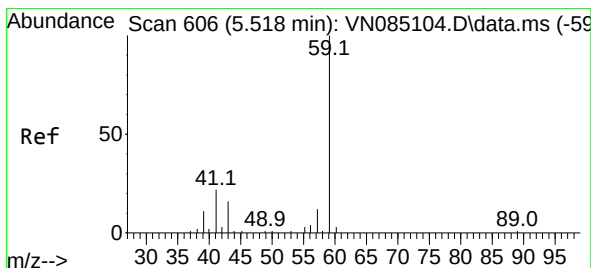
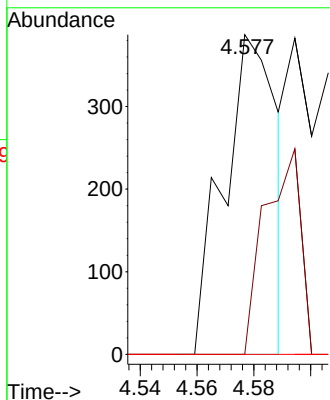
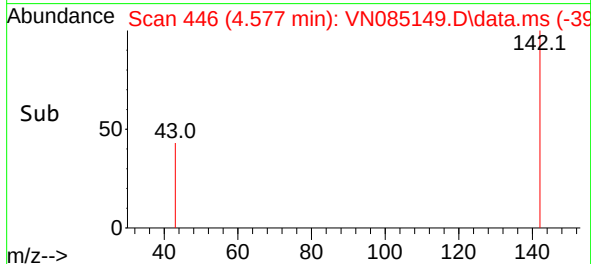


#10
Methyl Iodide
Concen: 0.226 ug/l
RT: 4.577 min Scan# 448
Delta R.T. 0.006 min
Lab File: VN085149.D
Acq: 09 Dec 2024 13:46

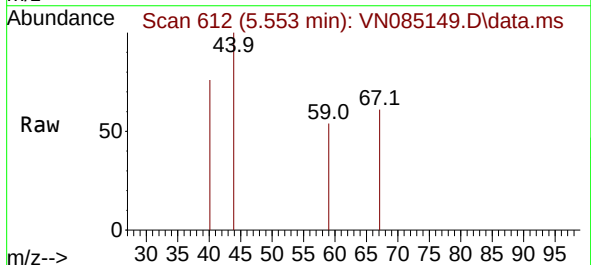
Instrument :
MSVOA_N
ClientSampleId :
MH-B



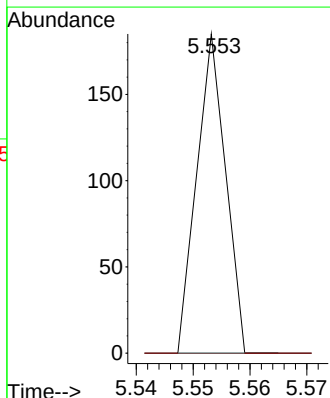
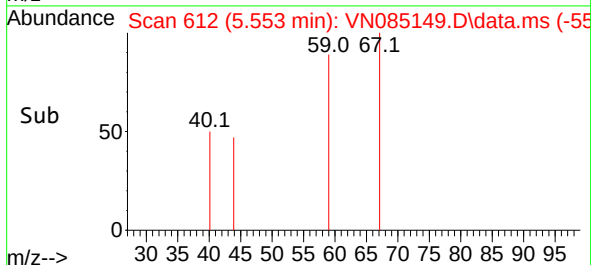
Tgt Ion:	142	Resp:	505
Ion	Ratio	Lower	Upper
142	100		
127	0.0	36.6	54.8#
141	0.0	12.2	18.4#

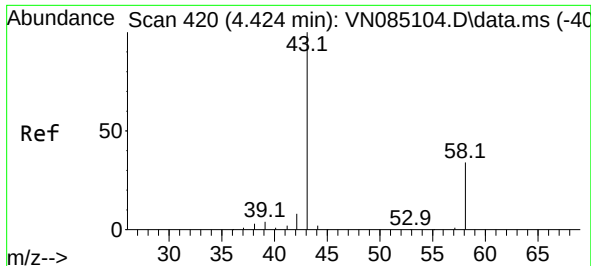


#11
Tert butyl alcohol
Concen: 0.230 ug/l
RT: 5.553 min Scan# 612
Delta R.T. 0.012 min
Lab File: VN085149.D
Acq: 09 Dec 2024 13:46



Tgt Ion:	59	Resp:	65
Ion	Ratio	Lower	Upper
59	100		
57	0.0	7.4	11.0#

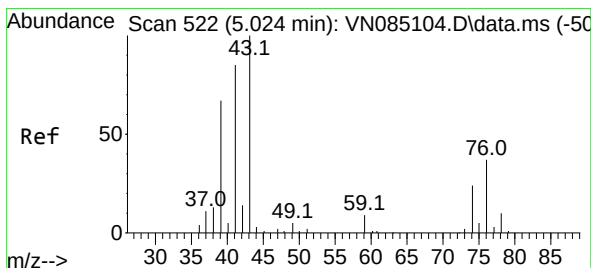
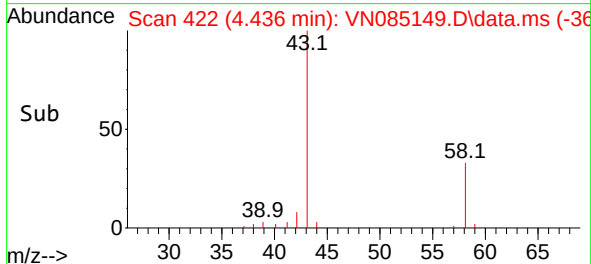
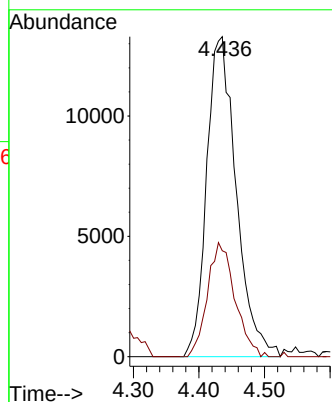
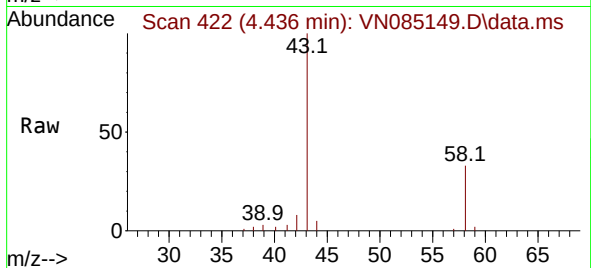




#16
Acetone
Concen: 67.578 ug/l
RT: 4.436 min Scan# 41
Delta R.T. 0.012 min
Lab File: VN085149.D
Acq: 09 Dec 2024 13:46

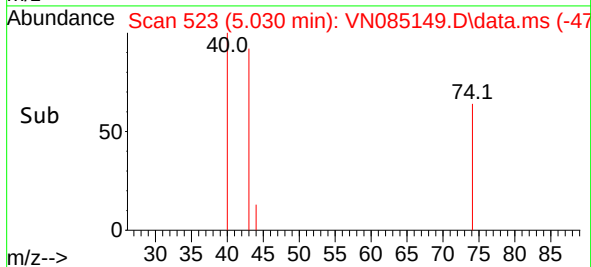
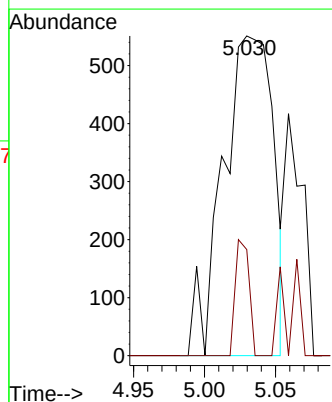
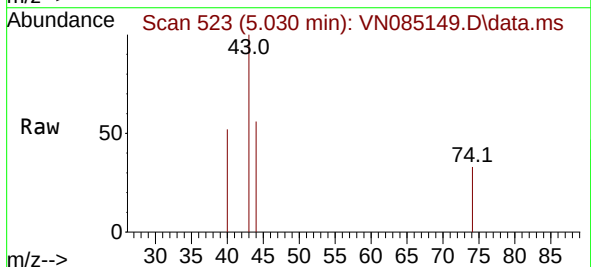
Instrument :
MSVOA_N
ClientSampleId :
MH-B

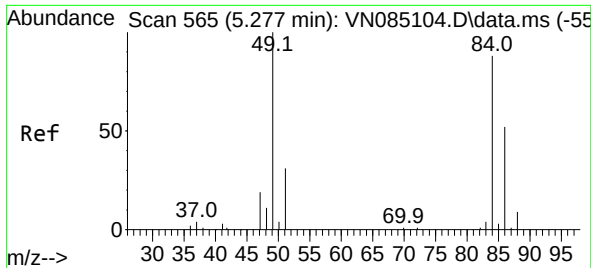
Tgt Ion: 43 Resp: 41579
Ion Ratio Lower Upper
43 100
58 33.1 25.4 38.2



#18
Methyl Acetate
Concen: Below Cal
RT: 5.030 min Scan# 523
Delta R.T. 0.012 min
Lab File: VN085149.D
Acq: 09 Dec 2024 13:46

Tgt Ion: 43 Resp: 1363
Ion Ratio Lower Upper
43 100
74 9.9 20.1 30.1#

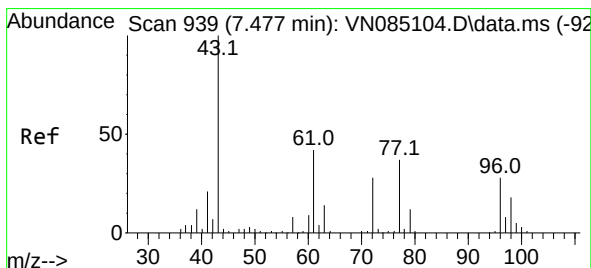
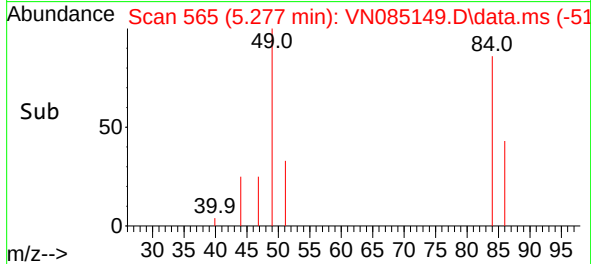
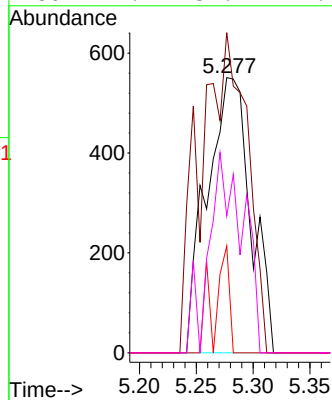
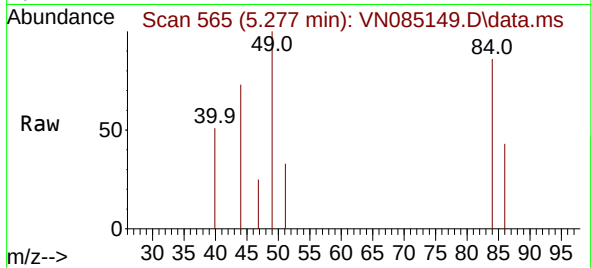




#20
Methylene Chloride
Concen: 0.788 ug/l
RT: 5.277 min Scan# 51
Delta R.T. 0.012 min
Lab File: VN085149.D
Acq: 09 Dec 2024 13:46

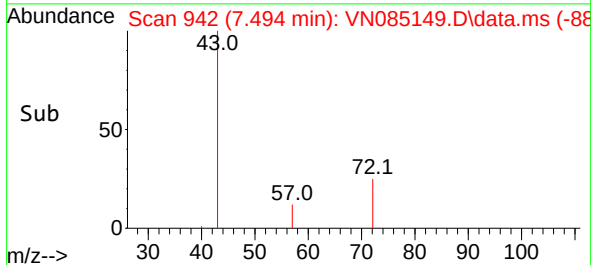
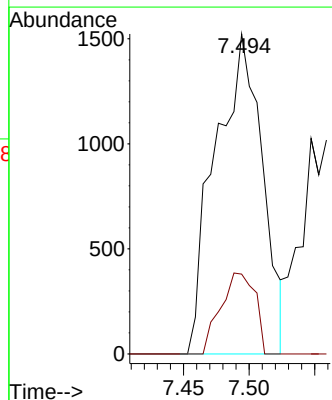
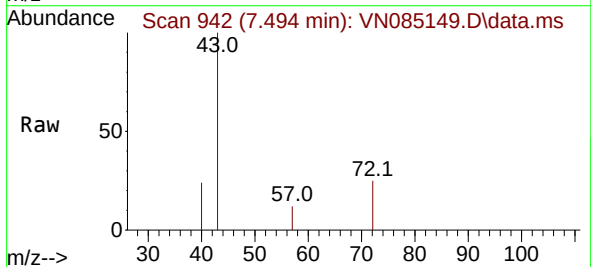
Instrument :
MSVOA_N
ClientSampleId :
MH-B

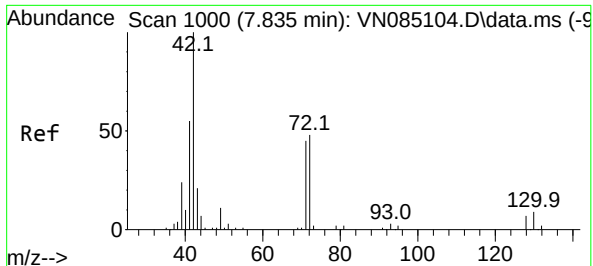
Tgt Ion:	84	Resp:	1480
Ion	Ratio	Lower	Upper
84	100		
49	116.3	92.7	139.1
51	38.8	29.4	44.2
86	49.7	51.9	77.9



#25
2-Butanone
Concen: 3.776 ug/l
RT: 7.494 min Scan# 942
Delta R.T. 0.012 min
Lab File: VN085149.D
Acq: 09 Dec 2024 13:46

Tgt Ion:	43	Resp:	3798
Ion	Ratio	Lower	Upper
43	100		
72	25.0	21.4	32.0





#29

Tetrahydrofuran

Concen: 0.262 ug/l

RT: 7.847 min Scan# 1066

Delta R.T. 0.012 min

Lab File: VN085149.D

Acq: 09 Dec 2024 13:46

Instrument :

MSVOA_N

ClientSampleId :

MH-B

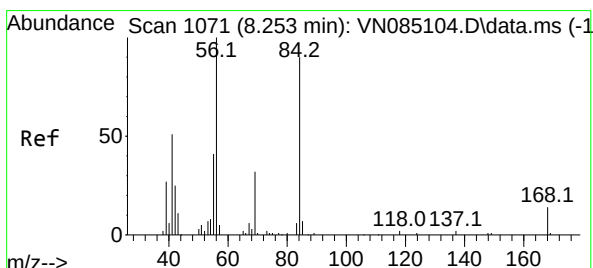
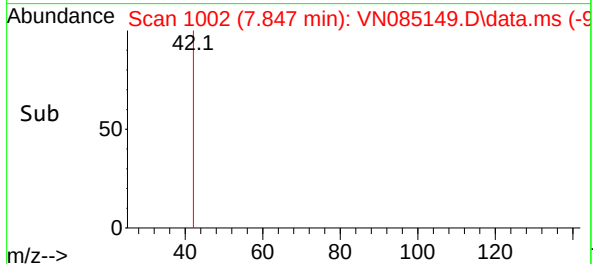
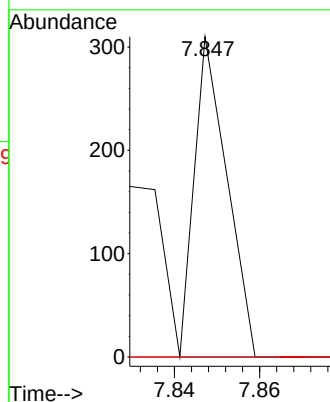
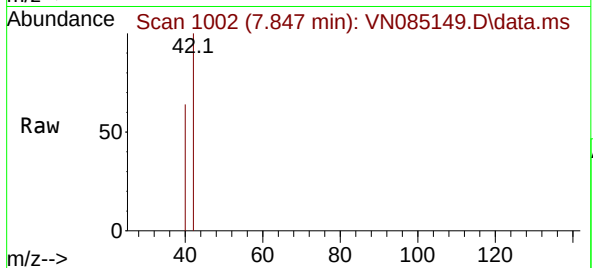
Tgt Ion: 42 Resp: 164

Ion Ratio Lower Upper

42 100

72 0.0 37.0 55.4#

71 0.0 35.0 52.4#



#31

Cyclohexane

Concen: 1.176 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.030 min

Lab File: VN085149.D

Acq: 09 Dec 2024 13:46

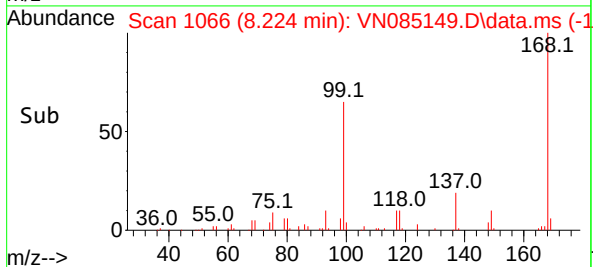
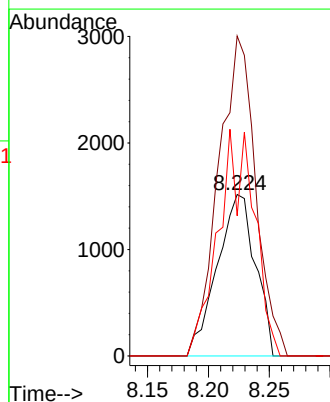
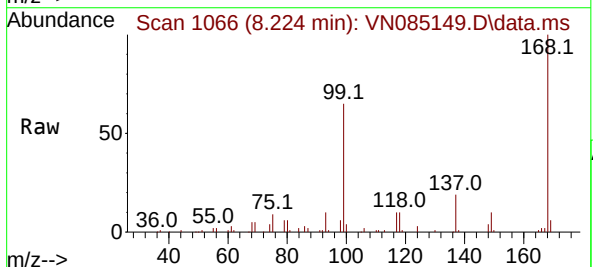
Tgt Ion: 56 Resp: 3310

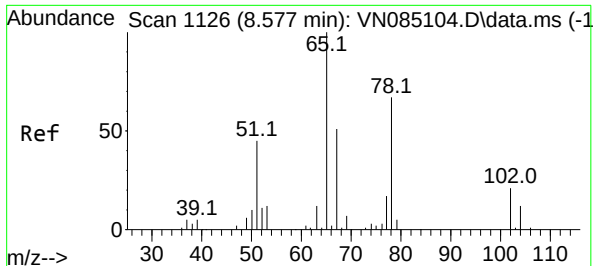
Ion Ratio Lower Upper

56 100

69 198.2 24.6 36.8#

84 86.9 71.4 107.2





#33

1,2-Dichloroethane-d4

Concen: 52.495 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. 0.006 min

Lab File: VN085149.D

Acq: 09 Dec 2024 13:46

Instrument :

MSVOA_N

ClientSampleId :

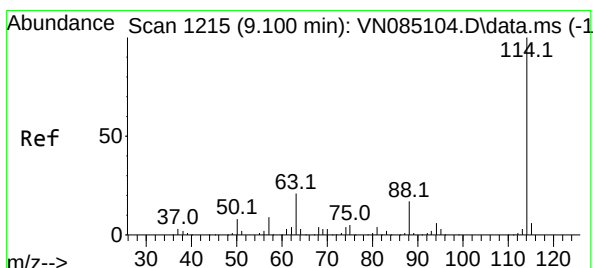
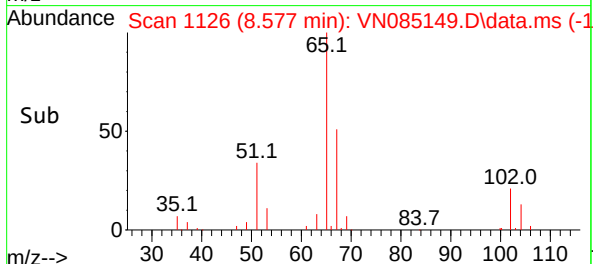
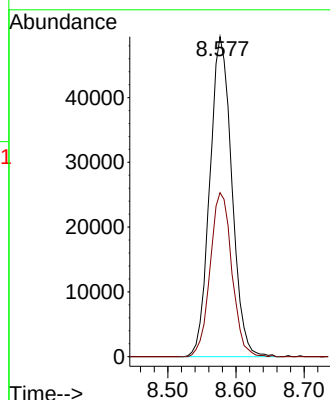
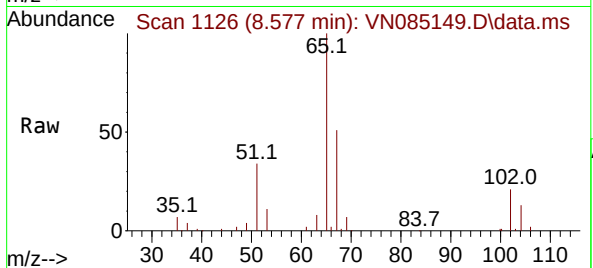
MH-B

Tgt Ion: 65 Resp: 110902

Ion Ratio Lower Upper

65 100

67 50.6 0.0 105.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.006 min

Lab File: VN085149.D

Acq: 09 Dec 2024 13:46

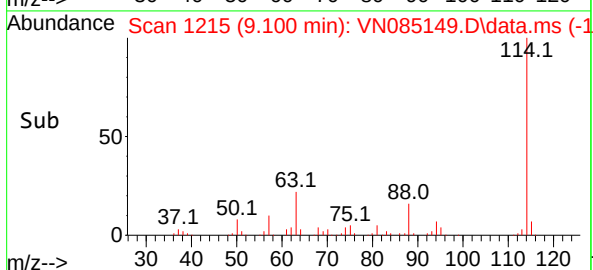
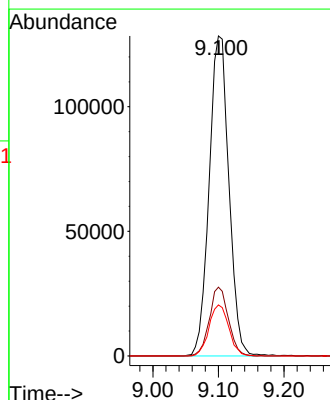
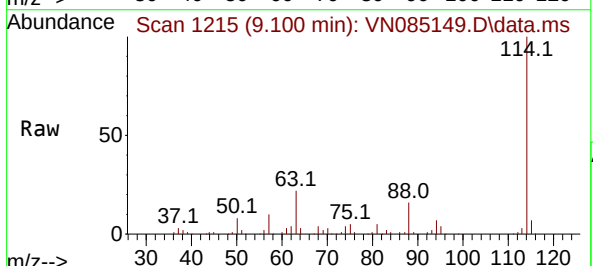
Tgt Ion: 114 Resp: 268355

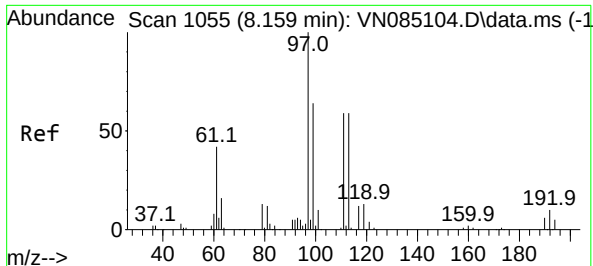
Ion Ratio Lower Upper

114 100

63 21.5 0.0 41.0

88 16.0 0.0 34.8





#35

Dibromofluoromethane

Concen: 49.848 ug/l

RT: 8.171 min Scan# 1057

Delta R.T. 0.012 min

Lab File: VN085149.D

Acq: 09 Dec 2024 13:46

Instrument :

MSVOA_N

ClientSampleId :

MH-B

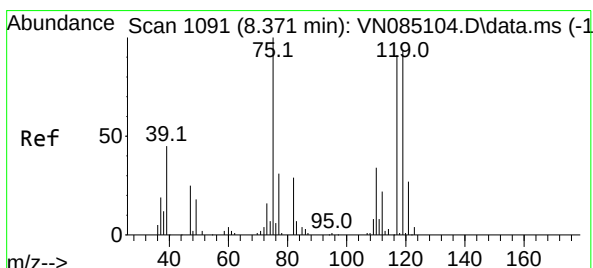
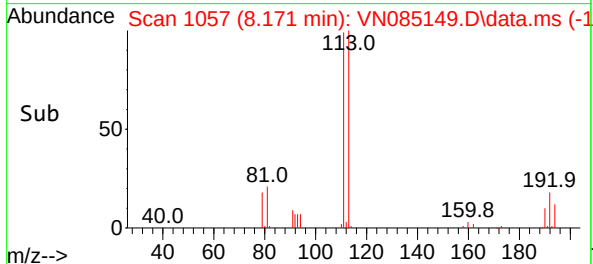
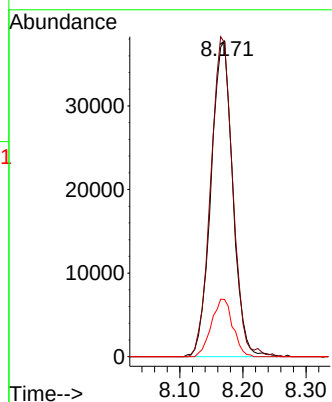
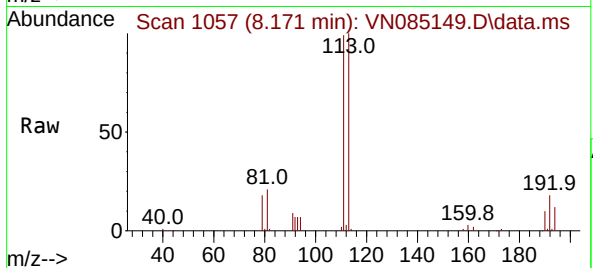
Tgt Ion:113 Resp: 90209

Ion Ratio Lower Upper

113 100

111 102.6 82.0 123.0

192 17.9 14.8 22.2



#36

1,1-Dichloropropene

Concen: 5.143 ug/l

RT: 8.229 min Scan# 1067

Delta R.T. -0.136 min

Lab File: VN085149.D

Acq: 09 Dec 2024 13:46

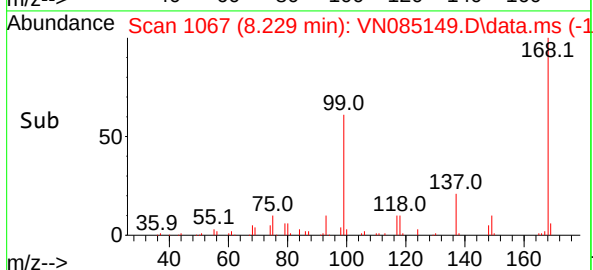
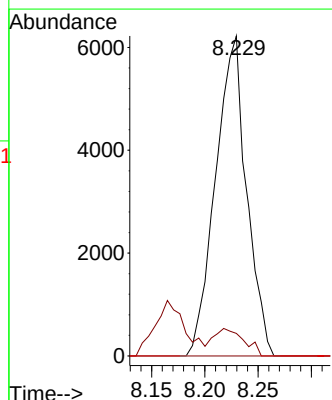
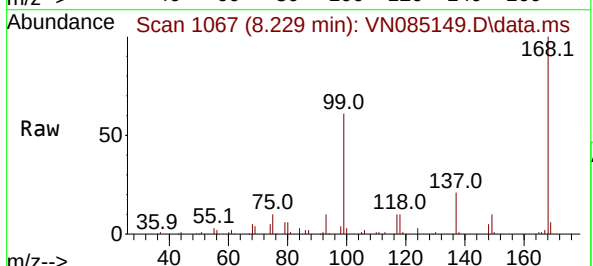
Tgt Ion: 75 Resp: 12606

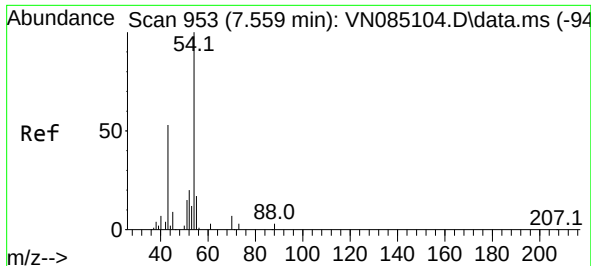
Ion Ratio Lower Upper

75 100

110 8.4 17.2 51.6#

77 0.0 24.2 36.4#

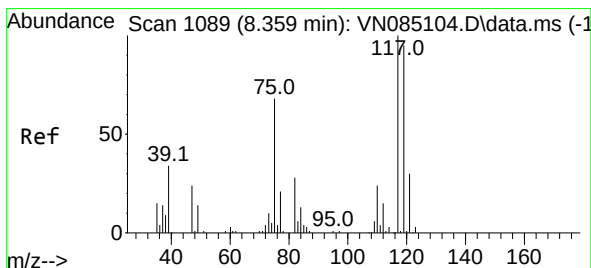
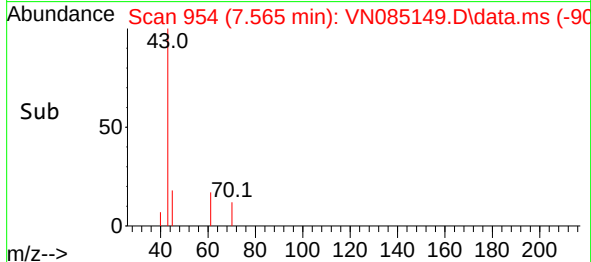
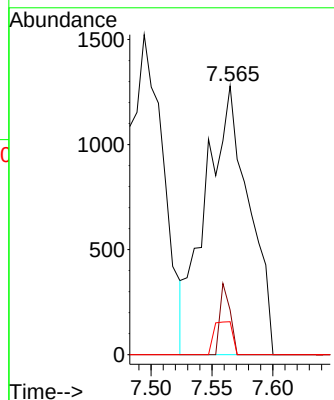
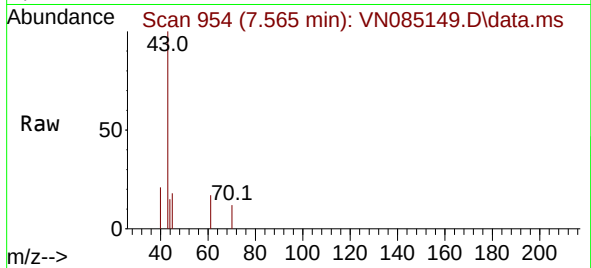




#37
Ethyl Acetate
Concen: 1.415 ug/l
RT: 7.565 min Scan# 91
Delta R.T. 0.012 min
Lab File: VN085149.D
Acq: 09 Dec 2024 13:46

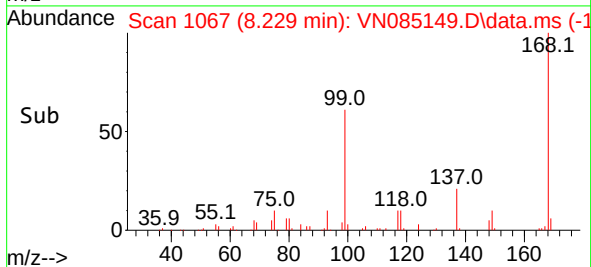
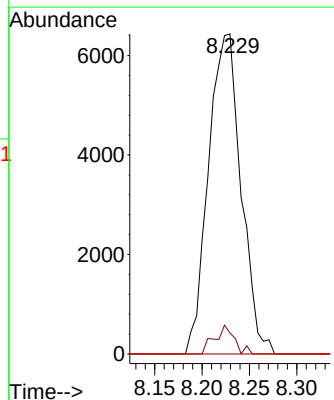
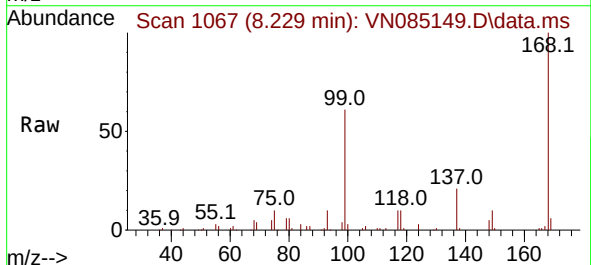
Instrument :
MSVOA_N
ClientSampleId :
MH-B

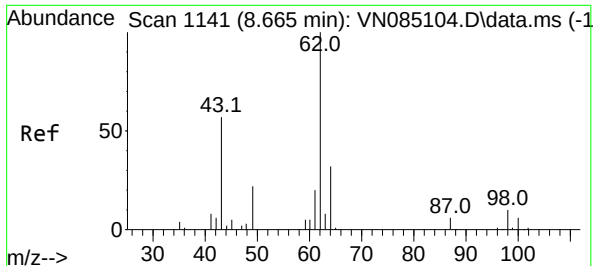
Tgt Ion: 43 Resp: 3154
Ion Ratio Lower Upper
43 100
61 6.2 11.7 17.5#
70 5.2 9.3 13.9#



#38
Carbon Tetrachloride
Concen: 5.445 ug/l
RT: 8.229 min Scan# 1067
Delta R.T. -0.124 min
Lab File: VN085149.D
Acq: 09 Dec 2024 13:46

Tgt Ion: 117 Resp: 15405
Ion Ratio Lower Upper
117 100
119 6.6 78.6 117.8#
121 0.0 24.2 36.2#





#42

1,2-Dichloroethane

Concen: 0.359 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. 0.023 min

Lab File: VN085149.D

Acq: 09 Dec 2024 13:46

Instrument :

MSVOA_N

ClientSampleId :

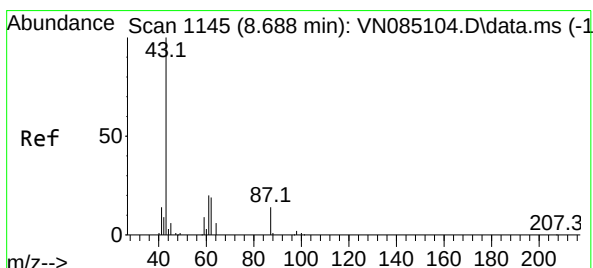
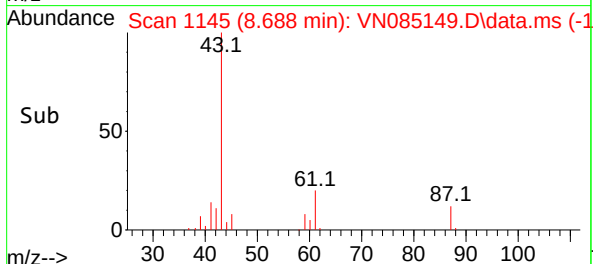
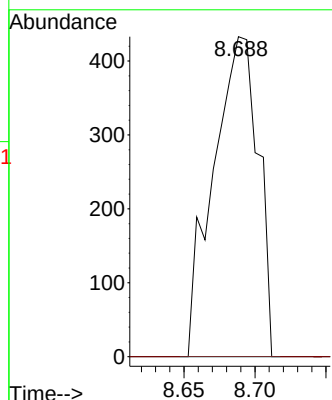
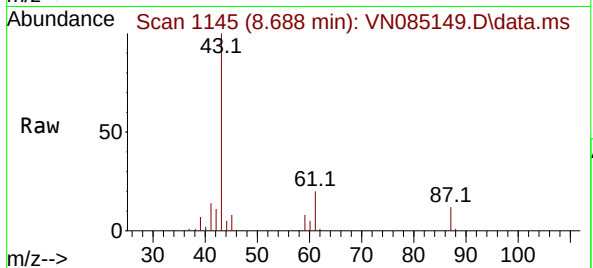
MH-B

Tgt Ion: 62 Resp: 953

Ion Ratio Lower Upper

62 100

98 0.0 0.0 18.2



#43

Isopropyl Acetate

Concen: 26.928 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. 0.006 min

Lab File: VN085149.D

Acq: 09 Dec 2024 13:46

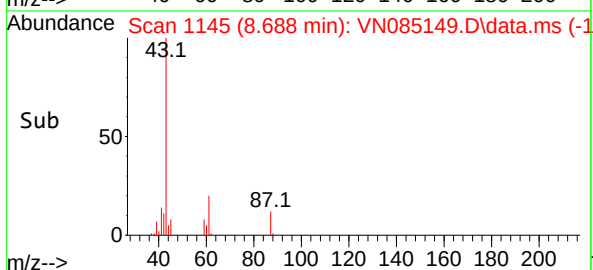
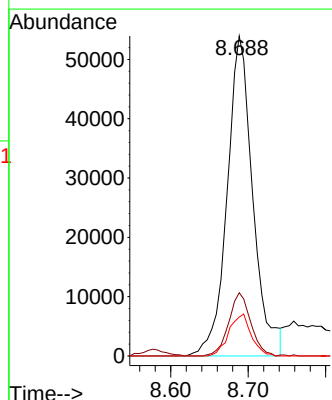
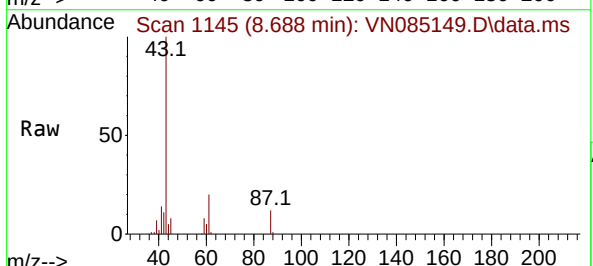
Tgt Ion: 43 Resp: 124645

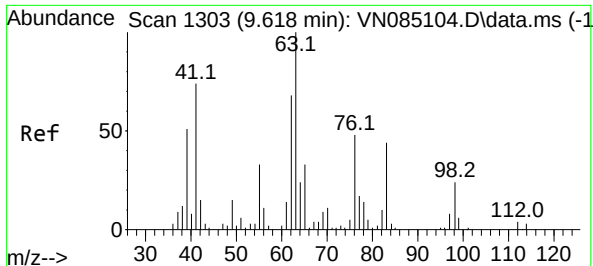
Ion Ratio Lower Upper

43 100

61 16.9 20.6 30.8

87 11.3 11.0 16.4





#45

1,2-Dichloropropane

Concen: 0.693 ug/l

RT: 9.735 min Scan# 1323

Delta R.T. 0.117 min

Lab File: VN085149.D

Acq: 09 Dec 2024 13:46

Instrument :

MSVOA_N

ClientSampleId :

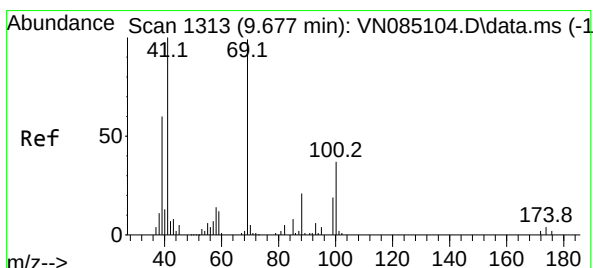
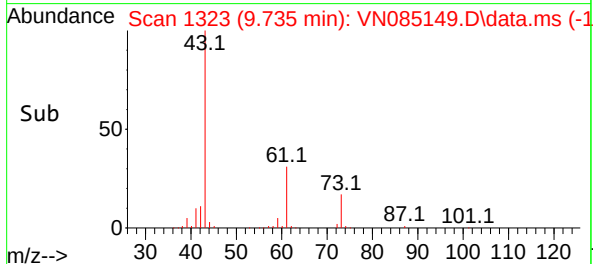
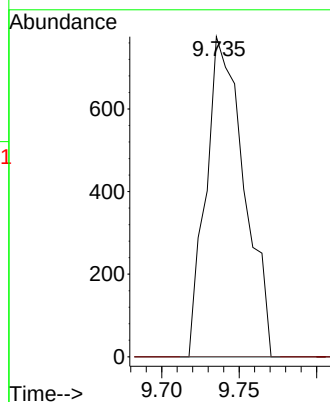
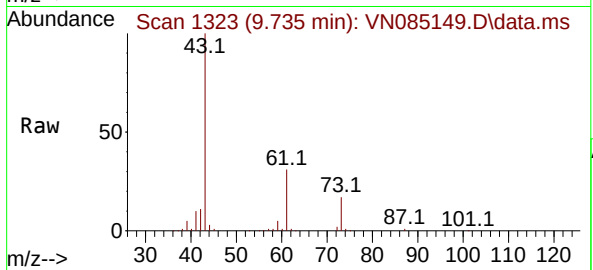
MH-B

Tgt Ion: 63 Resp: 1323

Ion Ratio Lower Upper

63 100

65 0.0 24.0 36.0#



#48

Methyl methacrylate

Concen: 1.843 ug/l

RT: 9.665 min Scan# 1311

Delta R.T. -0.012 min

Lab File: VN085149.D

Acq: 09 Dec 2024 13:46

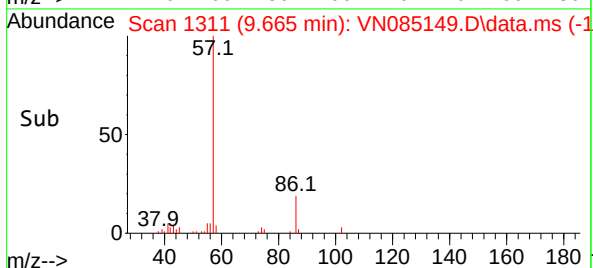
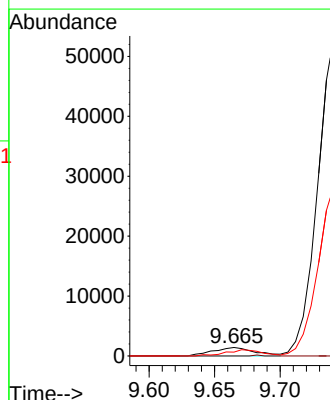
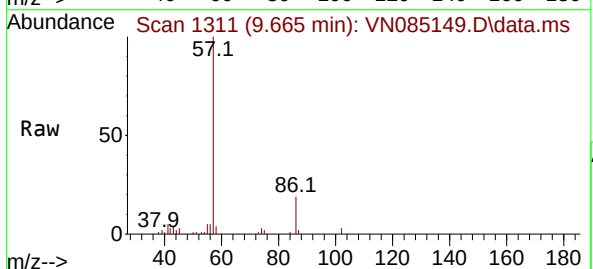
Tgt Ion: 41 Resp: 3174

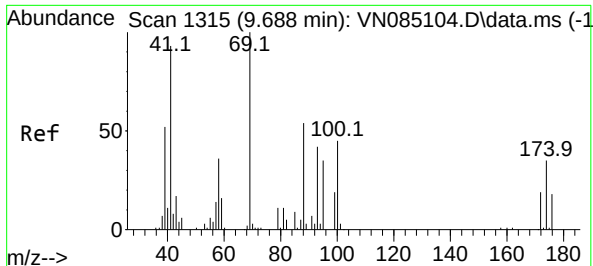
Ion Ratio Lower Upper

41 100

69 1.7 73.2 109.8#

39 62.6 46.2 69.4





#49

1,4-Dioxane

Concen: 2.310 ug/l

RT: 9.747 min Scan# 11

Delta R.T. 0.053 min

Lab File: VN085149.D

Acq: 09 Dec 2024 13:46

Instrument :

MSVOA_N

ClientSampleId :

MH-B

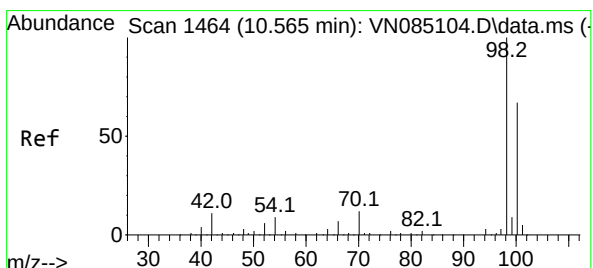
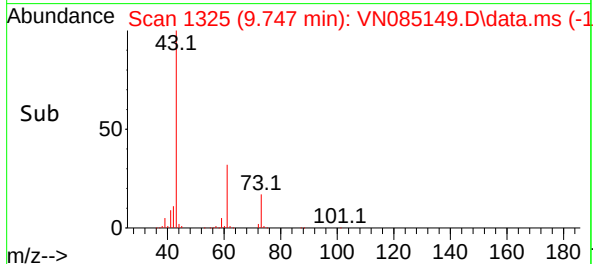
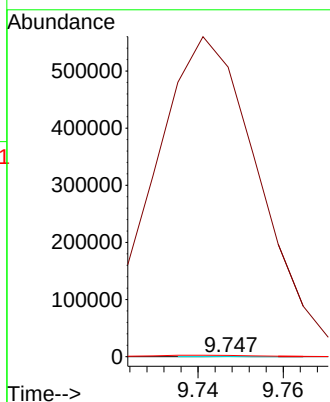
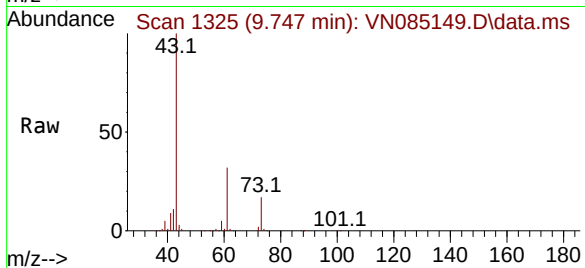
Tgt Ion: 88 Resp: 69

Ion Ratio Lower Upper

88 100

43 1439130.4 16.7 25.1#

58 7043.5 56.5 84.7#



#50

Toluene-d8

Concen: 50.519 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.000 min

Lab File: VN085149.D

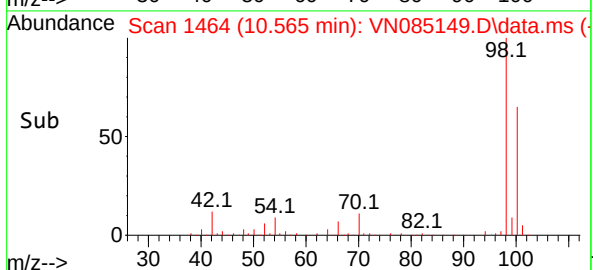
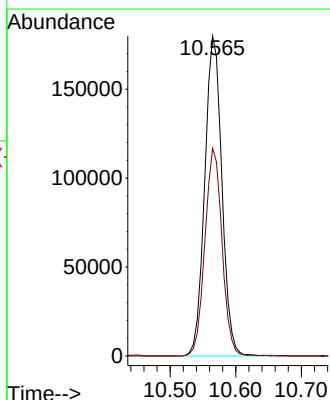
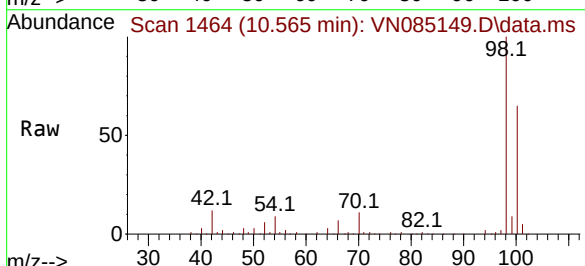
Acq: 09 Dec 2024 13:46

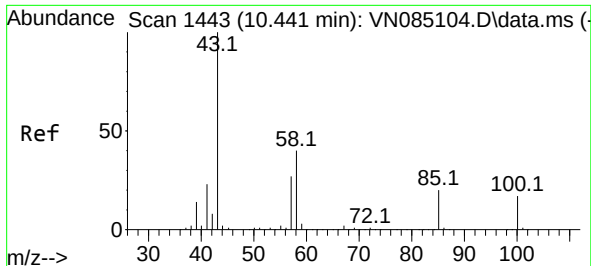
Tgt Ion: 98 Resp: 327641

Ion Ratio Lower Upper

98 100

100 64.8 52.5 78.7

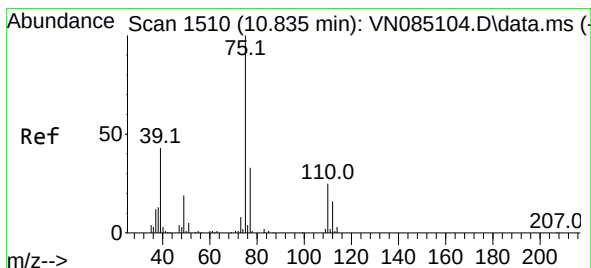
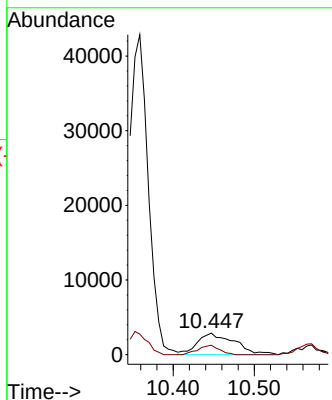
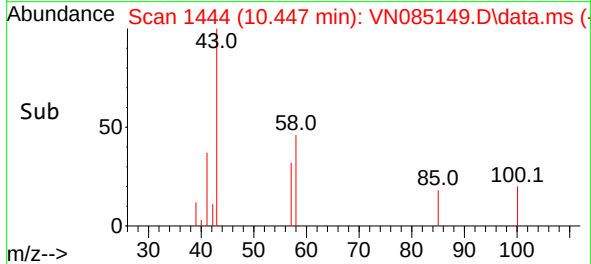
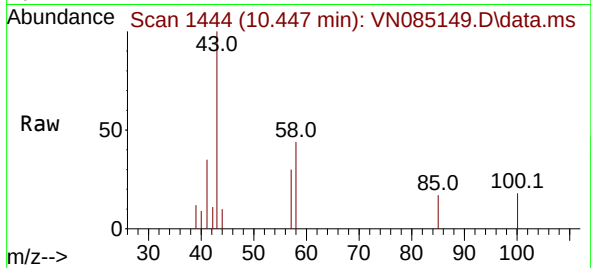




#51
4-Methyl-2-Pentanone
Concen: 4.347 ug/l
RT: 10.447 min Scan# 1443
Delta R.T. 0.006 min
Lab File: VN085149.D
Acq: 09 Dec 2024 13:46

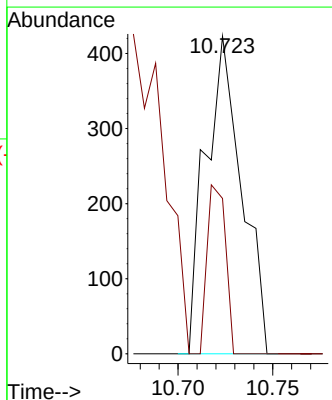
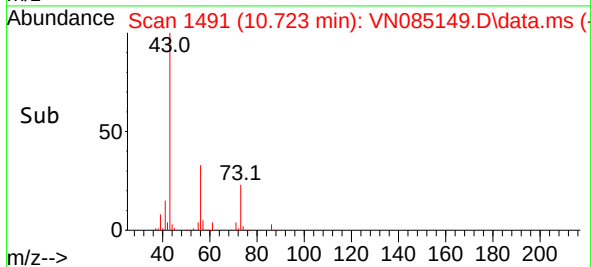
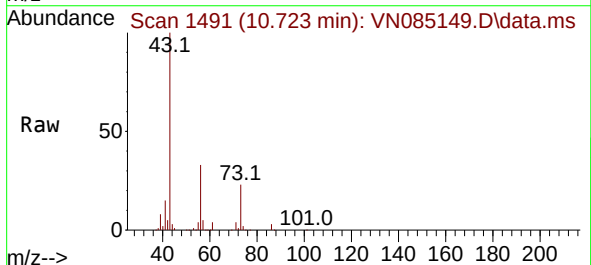
Instrument :
MSVOA_N
ClientSampleId :
MH-B

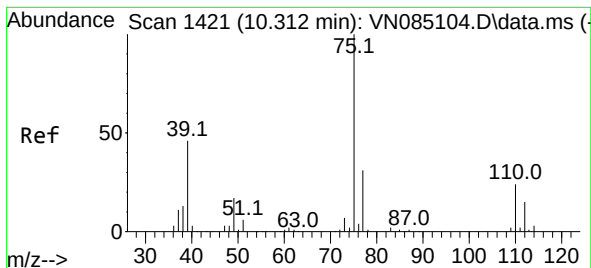
Tgt Ion: 43 Resp: 9191
Ion Ratio Lower Upper
43 100
58 25.1 32.1 48.1#



#53
t-1,3-Dichloropropene
Concen: 0.200 ug/l
RT: 10.723 min Scan# 1491
Delta R.T. -0.112 min
Lab File: VN085149.D
Acq: 09 Dec 2024 13:46

Tgt Ion: 75 Resp: 564
Ion Ratio Lower Upper
75 100
77 48.9 25.0 37.4#

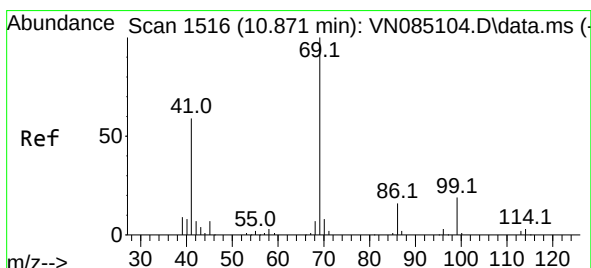
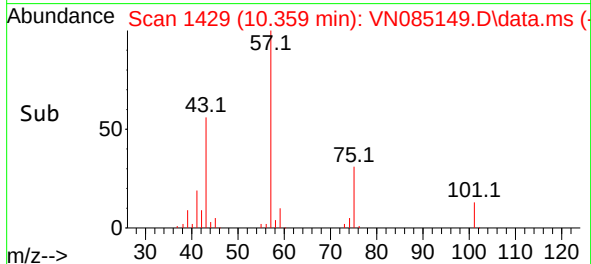
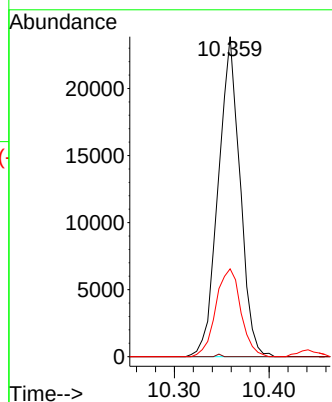
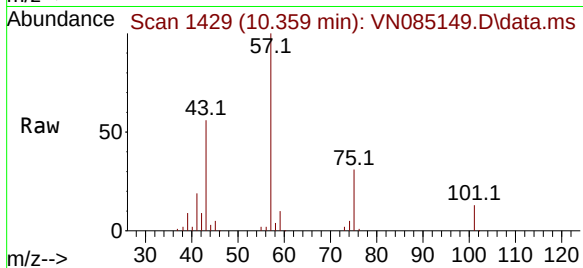




#54
 cis-1,3-Dichloropropene
 Concen: 12.742 ug/l
 RT: 10.359 min Scan# 1429
 Delta R.T. 0.053 min
 Lab File: VN085149.D
 Acq: 09 Dec 2024 13:46

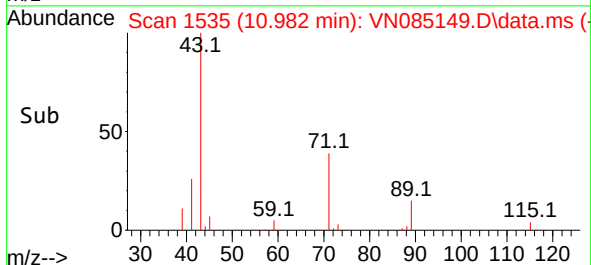
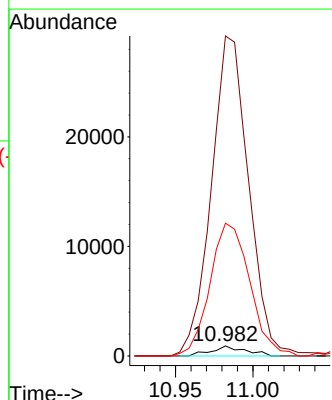
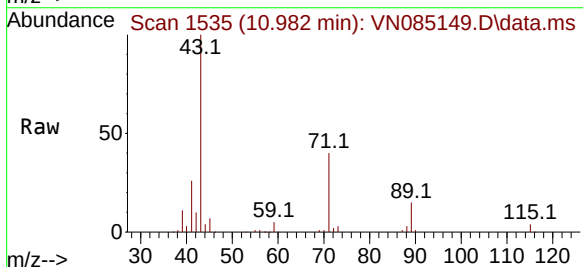
Instrument :
 MSVOA_N
 ClientSampleId :
 MH-B

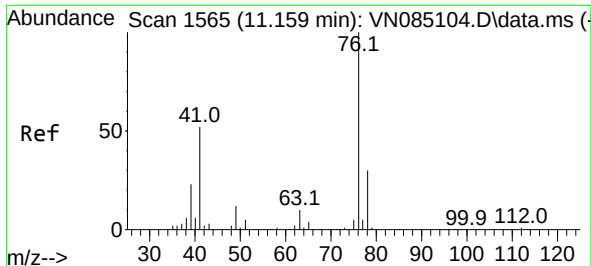
Tgt Ion: 75 Resp: 38110
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.0 37.4#
 39 27.4 37.6 56.4#



#56
 Ethyl methacrylate
 Concen: 0.558 ug/l
 RT: 10.982 min Scan# 1535
 Delta R.T. 0.112 min
 Lab File: VN085149.D
 Acq: 09 Dec 2024 13:46

Tgt Ion: 69 Resp: 1395
 Ion Ratio Lower Upper
 69 100
 41 3515.8 50.0 75.0#
 39 1550.5 27.0 40.6#





#57

1,3-Dichloropropane

Concen: 1.660 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.041 min

Lab File: VN085149.D

Acq: 09 Dec 2024 13:46

Instrument :

MSVOA_N

ClientSampleId :

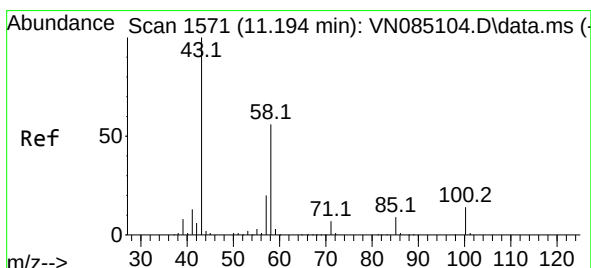
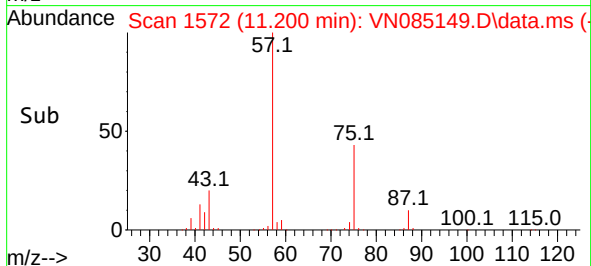
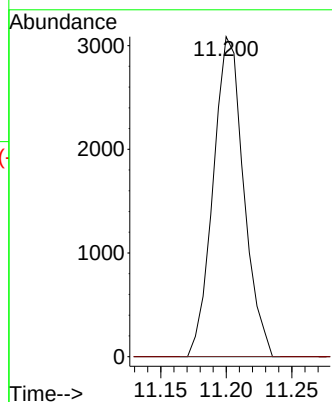
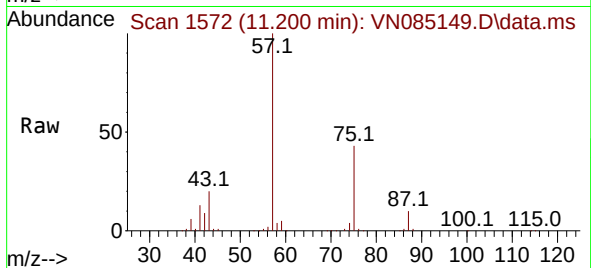
MH-B

Tgt Ion: 76 Resp: 4994

Ion Ratio Lower Upper

76 100

78 0.0 26.1 39.1#



#59

2-Hexanone

Concen: 37.404 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.006 min

Lab File: VN085149.D

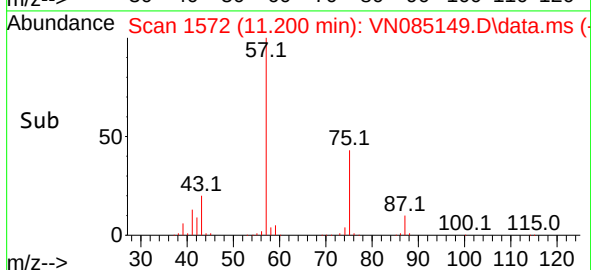
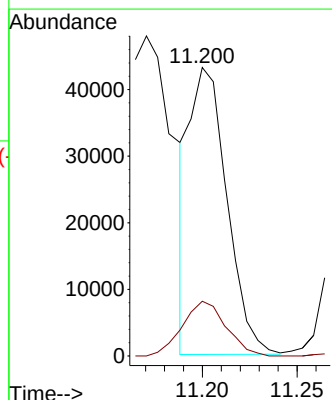
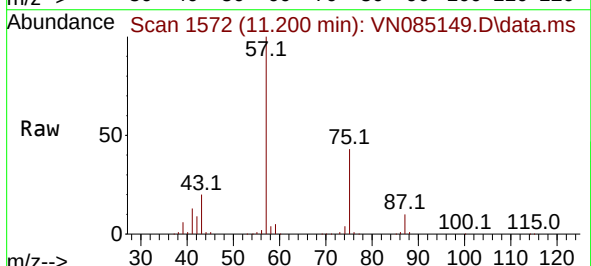
Acq: 09 Dec 2024 13:46

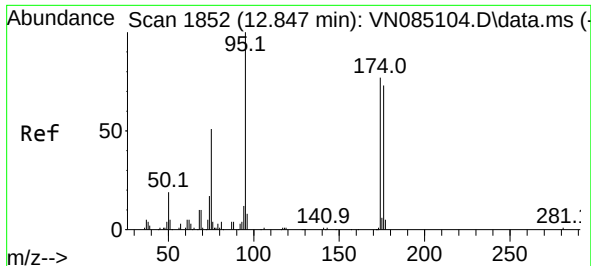
Tgt Ion: 43 Resp: 59145

Ion Ratio Lower Upper

43 100

58 22.3 28.3 85.0#

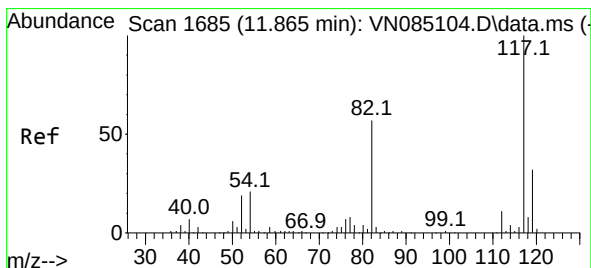
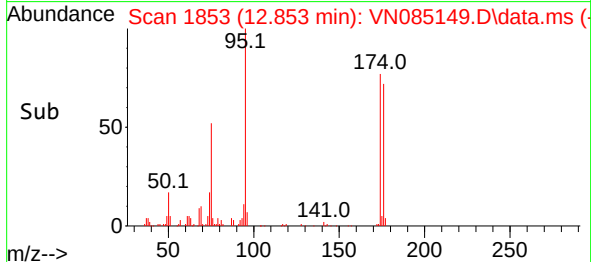
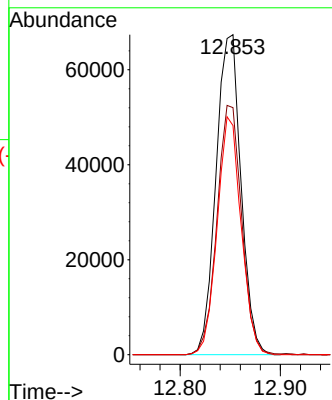
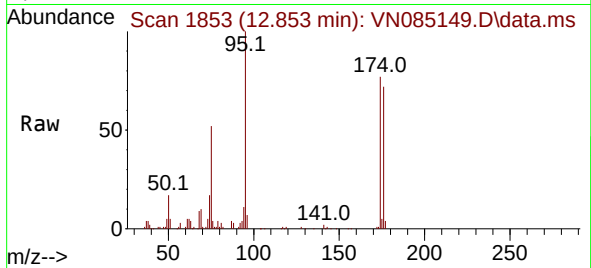




#62
4-Bromofluorobenzene
Concen: 48.007 ug/l
RT: 12.853 min Scan# 116435
Delta R.T. 0.006 min
Lab File: VN085149.D
Acq: 09 Dec 2024 13:46

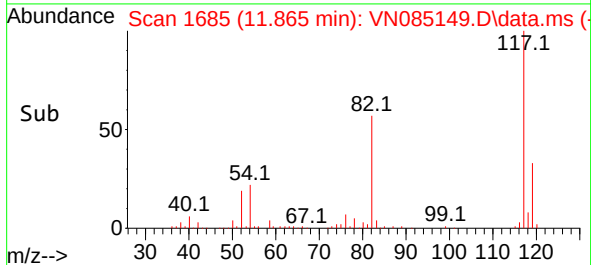
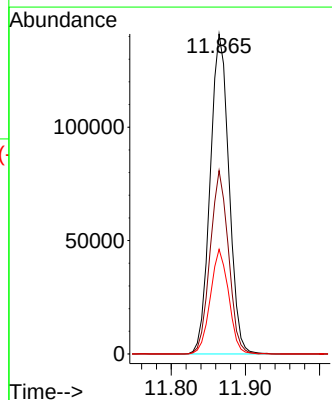
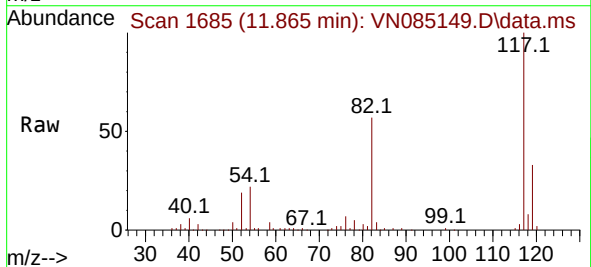
Instrument :
MSVOA_N
ClientSampleId :
MH-B

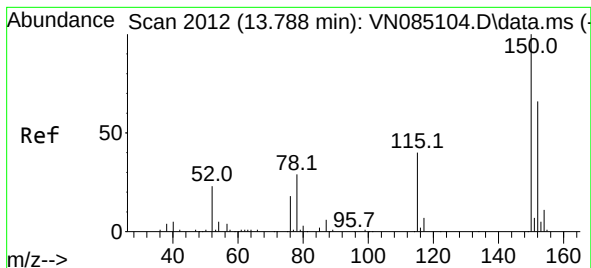
Tgt Ion: 95 Resp: 116435
Ion Ratio Lower Upper
95 100
174 77.0 0.0 146.6
176 71.3 0.0 141.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.006 min
Lab File: VN085149.D
Acq: 09 Dec 2024 13:46

Tgt Ion: 117 Resp: 248392
Ion Ratio Lower Upper
117 100
82 57.3 46.0 69.0
119 32.7 25.6 38.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 20

Delta R.T. -0.000 min

Lab File: VN085149.D

Acq: 09 Dec 2024 13:46

Instrument :

MSVOA_N

ClientSampleId :

MH-B

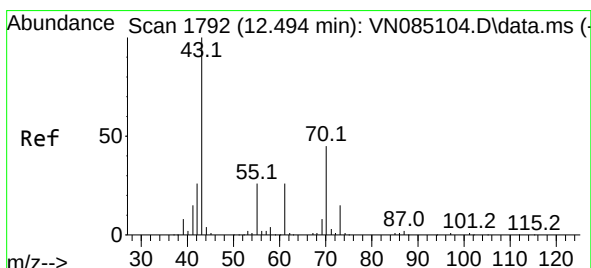
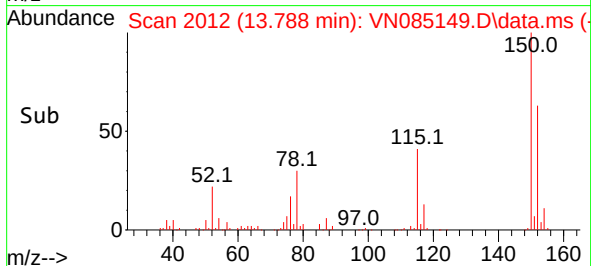
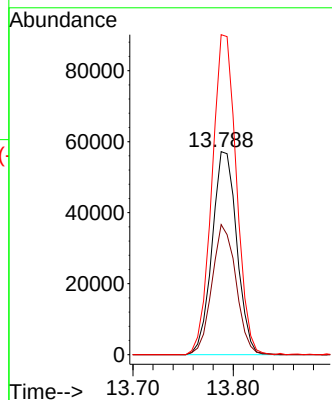
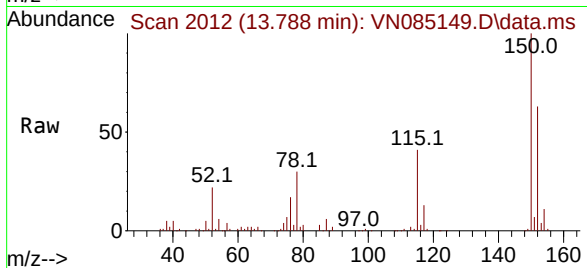
Tgt Ion:152 Resp: 97668

Ion Ratio Lower Upper

152 100

115 62.6 31.7 95.1

150 155.9 0.0 351.4



#74

N-ethyl acetate

Concen: 6.281 ug/l

RT: 12.306 min Scan# 1760

Delta R.T. -0.188 min

Lab File: VN085149.D

Acq: 09 Dec 2024 13:46

Tgt Ion: 43 Resp: 17832

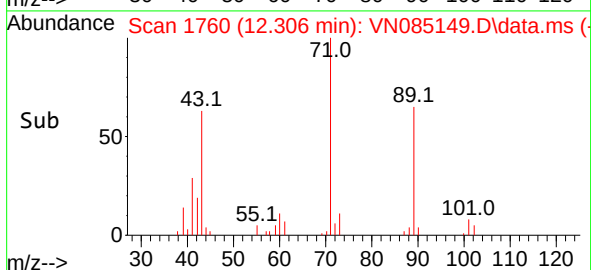
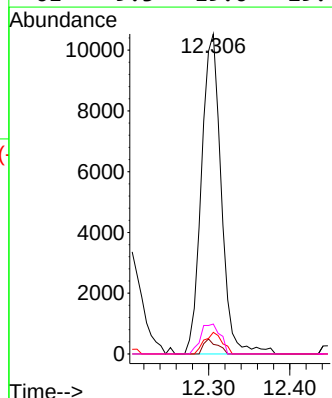
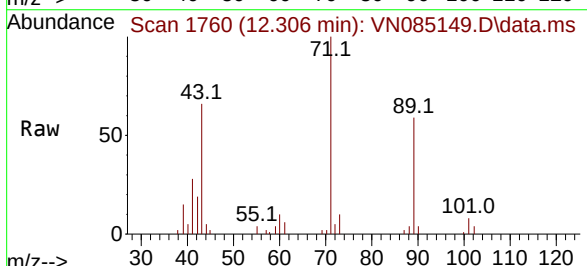
Ion Ratio Lower Upper

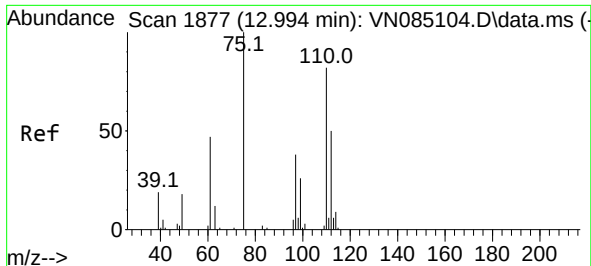
43 100

70 3.2 34.6 51.8#

55 6.1 20.5 30.7#

61 9.3 19.6 29.4#

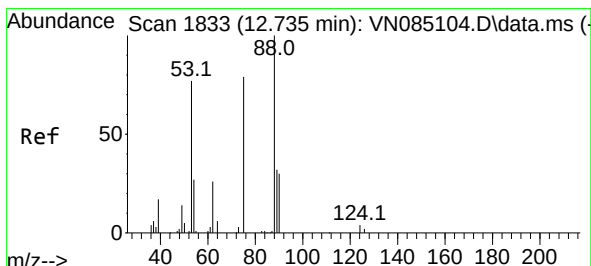
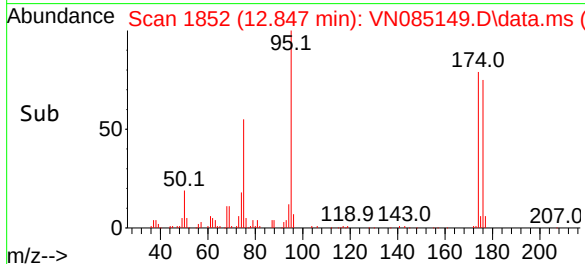
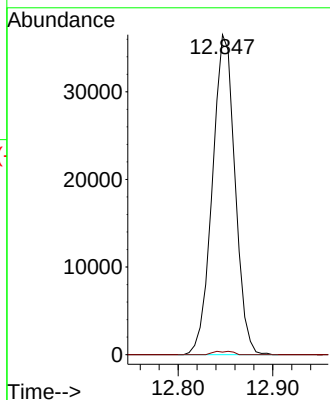
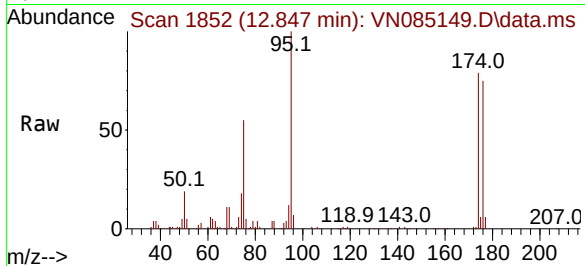




#76
1,2,3-Trichloropropane
Concen: 34.126 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN085149.D
Acq: 09 Dec 2024 13:46

Instrument :
MSVOA_N
ClientSampleId :
MH-B

Tgt Ion: 75 Resp: 60625
Ion Ratio Lower Upper
75 100
77 0.9 109.1 327.4#



#81
trans-1,4-Dichloro-2-butene
Concen: 75.335 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN085149.D
Acq: 09 Dec 2024 13:46

Tgt Ion: 75 Resp: 60625
Ion Ratio Lower Upper
75 100
53 0.0 78.2 117.4#
89 0.0 37.9 56.9#

