

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032525\
 Data File : VN086110.D
 Acq On : 25 Mar 2025 19:04
 Operator : JC\MD
 Sample : Q1619-14RE
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-5

Quant Time: Mar 26 03:25:01 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N031825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 19 03:20:56 2025
 Response via : Initial Calibration

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

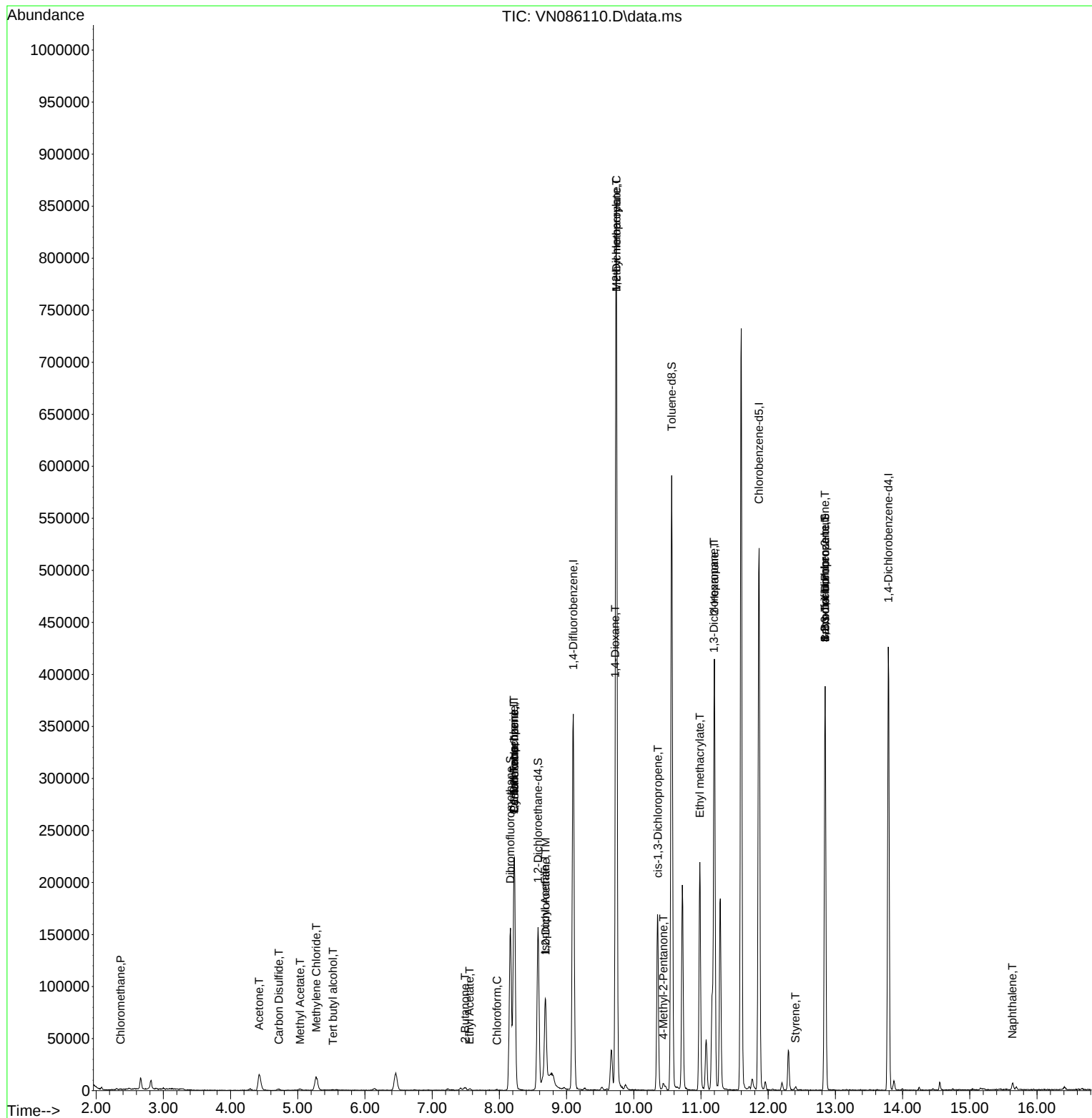
Internal Standards						
1) Pentafluorobenzene	8.224	168	162957	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	318327	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	311916	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	120981	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.576	65	126987	56.908	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 113.820%			
35) Dibromofluoromethane	8.165	113	110682	49.815	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 99.620%			
50) Toluene-d8	10.565	98	414122	51.355	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 102.720%			
62) 4-Bromofluorobenzene	12.847	95	134691	46.836	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 93.680%			
Target Compounds						Qvalue
3) Chloromethane	2.365	50	432	0.228	ug/l #	42
11) Tert butyl alcohol	5.524	59	317	1.003	ug/l #	73
16) Acetone	4.424	43	28679	42.068	ug/l #	86
17) Carbon Disulfide	4.718	76	2403	0.438	ug/l #	74
18) Methyl Acetate	5.036	43	2243	1.330	ug/l #	74
20) Methylene Chloride	5.277	84	11291	5.662	ug/l	93
25) 2-Butanone	7.488	43	4658	4.735	ug/l #	79
30) Chloroform	7.965	83	932	0.258	ug/l #	81
31) Cyclohexane	8.224	56	3397	1.222	ug/l #	19
36) 1,1-Dichloropropene	8.218	75	13402	4.581	ug/l #	48
37) Ethyl Acetate	7.559	43	2390	0.968	ug/l #	70
38) Carbon Tetrachloride	8.218	117	18179	4.726	ug/l #	16
42) 1,2-Dichloroethane	8.688	62	654	0.204	ug/l #	74
43) Isopropyl Acetate	8.682	43	108038	20.200	ug/l #	80
45) 1,2-Dichloropropane	9.741	63	1032	0.494	ug/l #	44
48) Methyl methacrylate	9.741	41	74838	42.402	ug/l #	31
49) 1,4-Dioxane	9.723	88	57	1.366	ug/l #	28
51) 4-Methyl-2-Pentanone	10.441	43	4855	2.058	ug/l	87
54) cis-1,3-Dichloropropene	10.359	75	31302	8.898	ug/l #	64
56) Ethyl methacrylate	10.982	69	1503	0.741	ug/l #	1
57) 1,3-Dichloropropane	11.194	76	4551	1.245	ug/l #	42
59) 2-Hexanone	11.200	43	51843	30.170	ug/l #	47
70) Styrene	12.406	104	1944	0.276	ug/l	94
71) Bromoform	12.847	173	1106	0.499	ug/l #	1
76) 1,2,3-Trichloropropane	12.847	75	67716	25.001	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	67716	66.098	ug/l #	16
95) Naphthalene	15.635	128	7171	1.193	ug/l	96

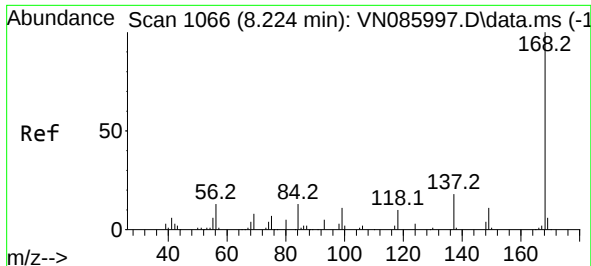
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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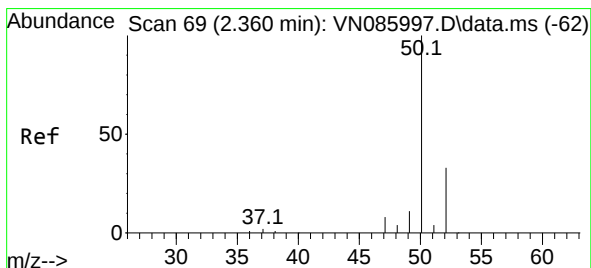
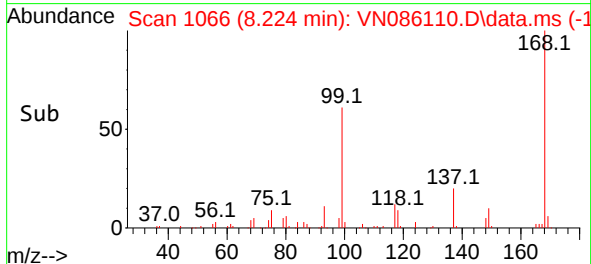
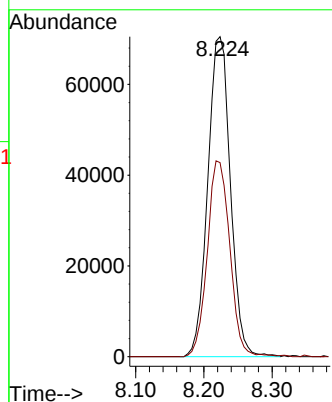
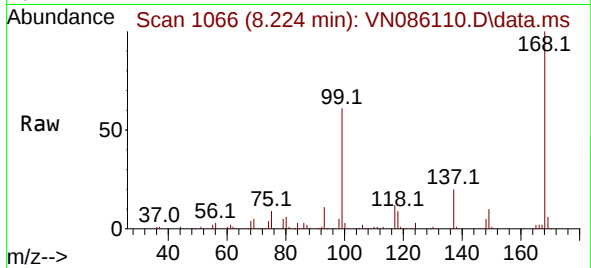




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN086110.D
Acq: 25 Mar 2025 19:04

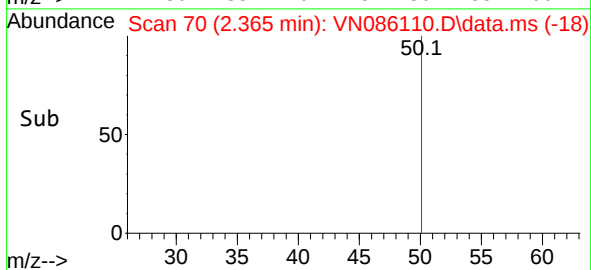
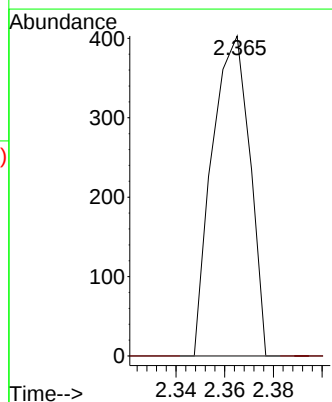
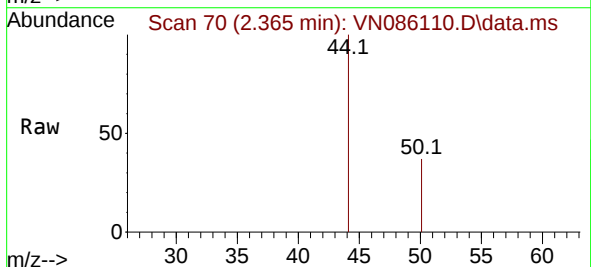
Instrument :
MSVOA_N
ClientSampleId :
TP-5

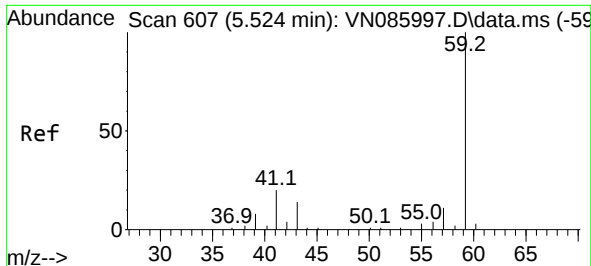
Tgt Ion:168 Resp: 162957
Ion Ratio Lower Upper
168 100
99 60.7 49.4 74.2



#3
Chloromethane
Concen: 0.228 ug/l
RT: 2.365 min Scan# 70
Delta R.T. 0.006 min
Lab File: VN086110.D
Acq: 25 Mar 2025 19:04

Tgt Ion: 50 Resp: 432
Ion Ratio Lower Upper
50 100
52 0.0 26.0 39.0#

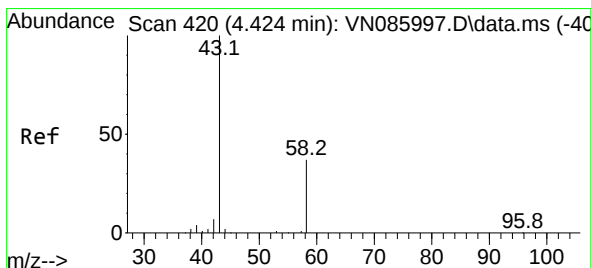
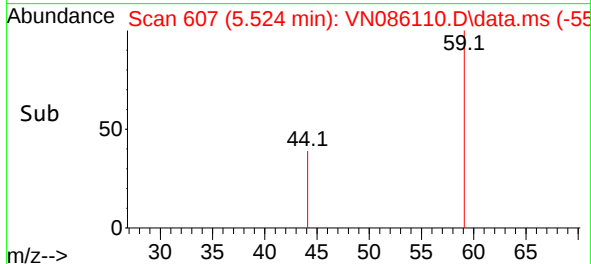
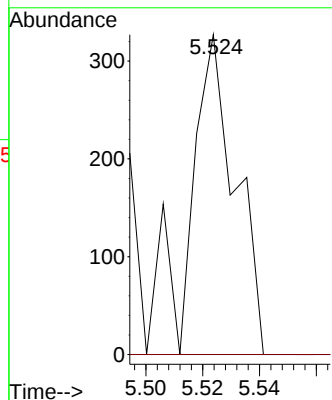
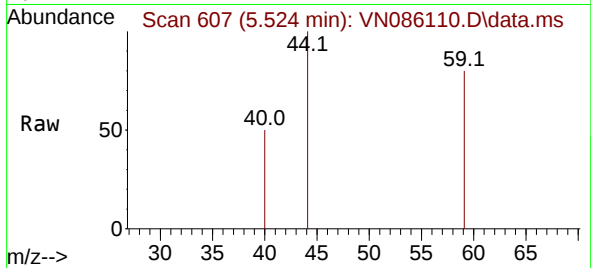




#11
Tert butyl alcohol
Concen: 1.003 ug/l
RT: 5.524 min Scan# 607
Delta R.T. -0.000 min
Lab File: VN086110.D
Acq: 25 Mar 2025 19:04

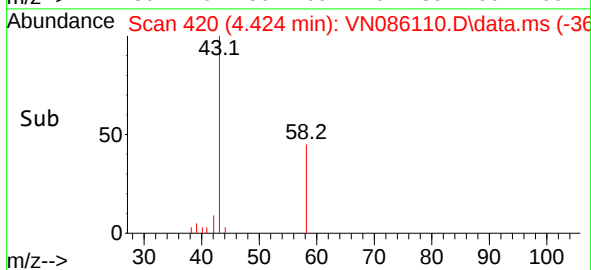
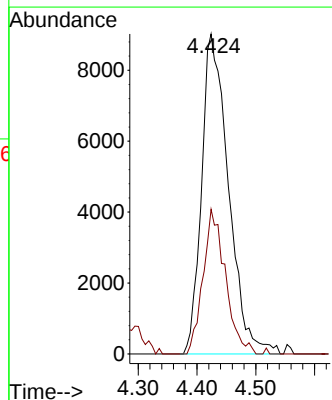
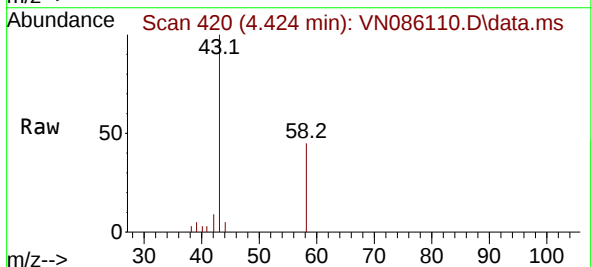
Instrument :
MSVOA_N
ClientSampleId :
TP-5

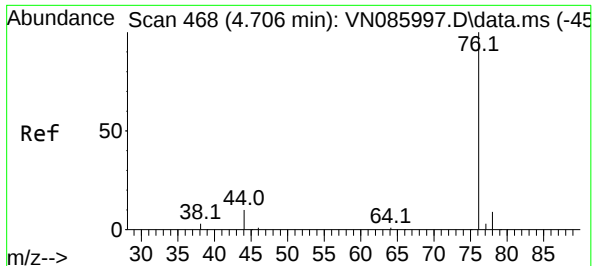
Tgt Ion: 59 Resp: 317
Ion Ratio Lower Upper
59 100
57 0.0 7.9 11.9#



#16
Acetone
Concen: 42.068 ug/l
RT: 4.424 min Scan# 420
Delta R.T. -0.000 min
Lab File: VN086110.D
Acq: 25 Mar 2025 19:04

Tgt Ion: 43 Resp: 28679
Ion Ratio Lower Upper
43 100
58 45.2 29.4 44.2#

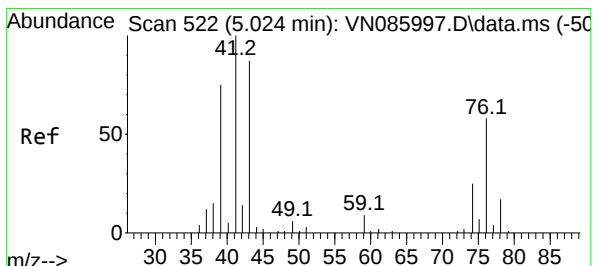
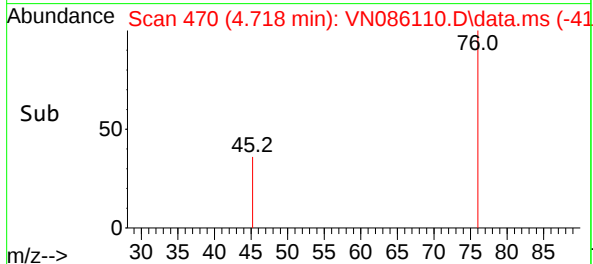
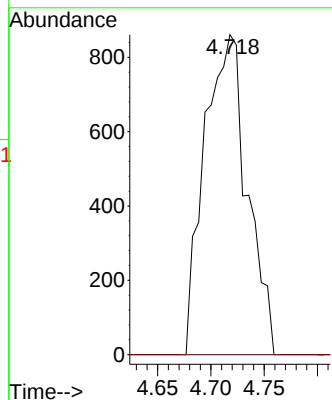
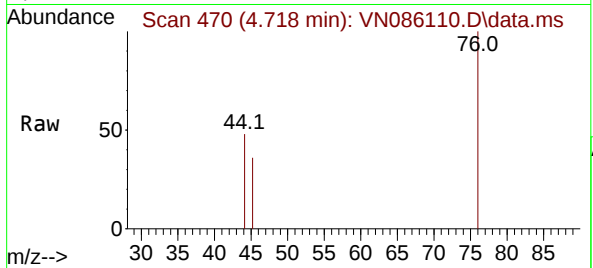




#17
Carbon Disulfide
Concen: 0.438 ug/l
RT: 4.718 min Scan# 41
Delta R.T. 0.011 min
Lab File: VN086110.D
Acq: 25 Mar 2025 19:04

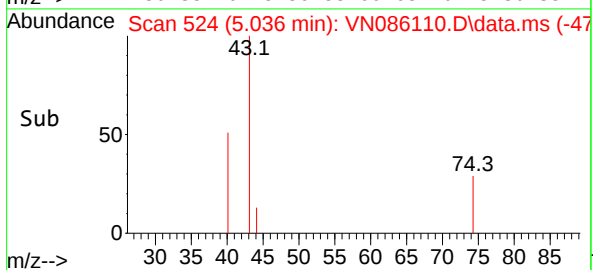
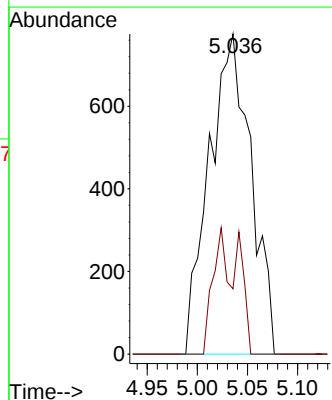
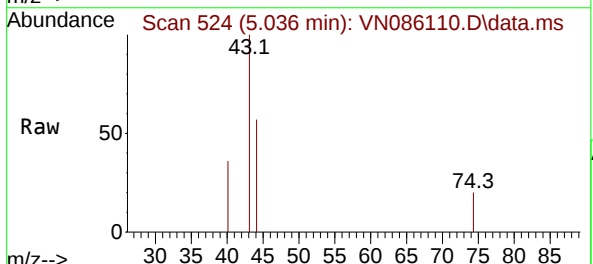
Instrument :
MSVOA_N
ClientSampleId :
TP-5

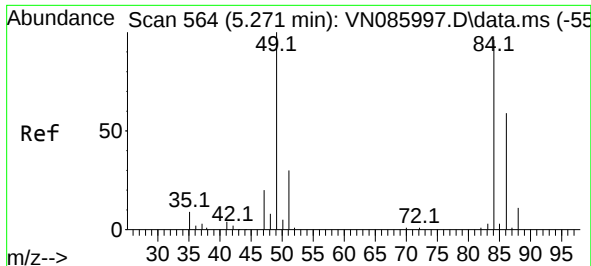
Tgt Ion: 76 Resp: 2403
Ion Ratio Lower Upper
76 100
78 0.0 7.4 11.2#



#18
Methyl Acetate
Concen: 1.330 ug/l
RT: 5.036 min Scan# 524
Delta R.T. 0.011 min
Lab File: VN086110.D
Acq: 25 Mar 2025 19:04

Tgt Ion: 43 Resp: 2243
Ion Ratio Lower Upper
43 100
74 15.6 23.9 35.9#

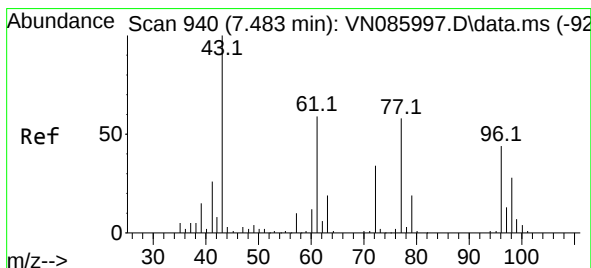
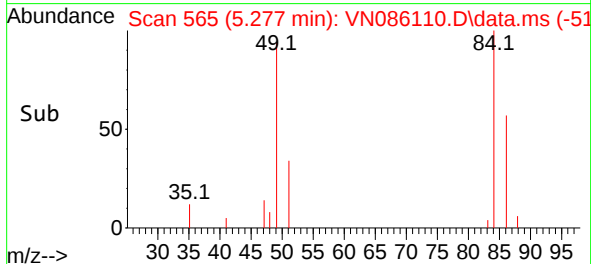
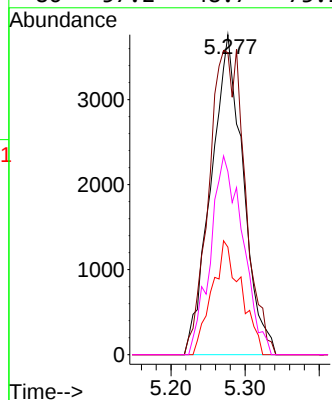
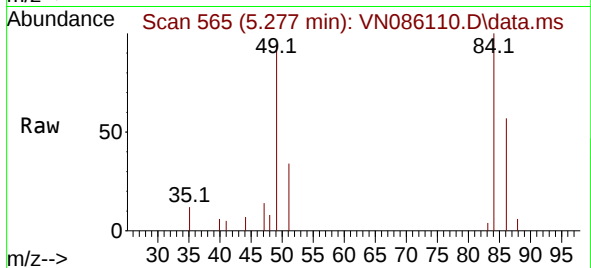




#20
Methylene Chloride
Concen: 5.662 ug/l
RT: 5.277 min Scan# 511
Delta R.T. 0.006 min
Lab File: VN086110.D
Acq: 25 Mar 2025 19:04

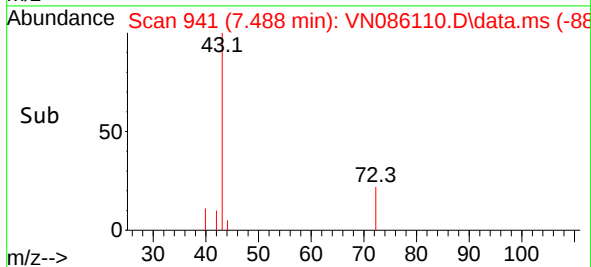
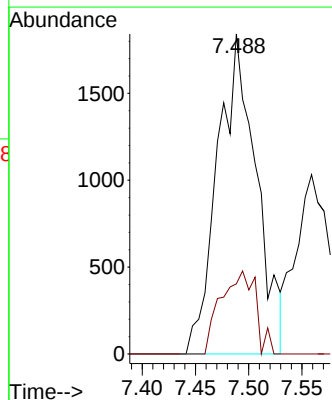
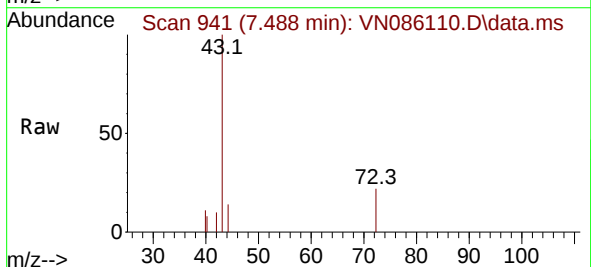
Instrument :
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ClientSampleId :
TP-5

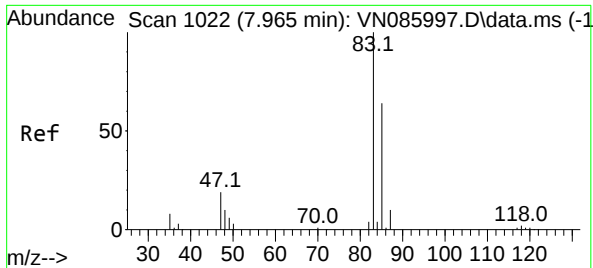
Tgt Ion: 84	Resp: 11291
Ion Ratio	Lower Upper
84 100	
49 94.4	83.3 124.9
51 33.6	24.8 37.2
86 57.2	48.7 73.1



#25
2-Butanone
Concen: 4.735 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.006 min
Lab File: VN086110.D
Acq: 25 Mar 2025 19:04

Tgt Ion: 43	Resp: 4658		
Ion Ratio	Lower	Upper	
43 100			
72 21.9	27.4	41.0#	

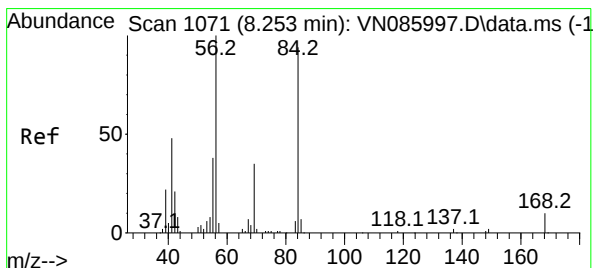
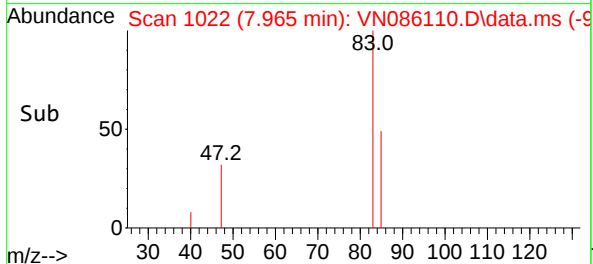
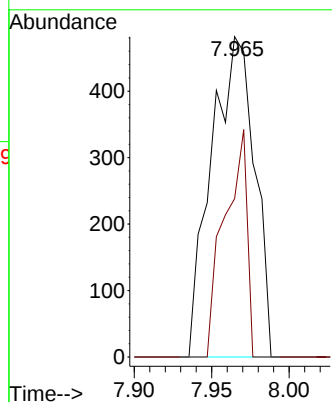
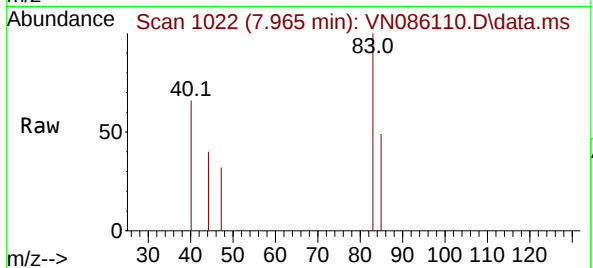




#30
Chloroform
Concen: 0.258 ug/l
RT: 7.965 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN086110.D
Acq: 25 Mar 2025 19:04

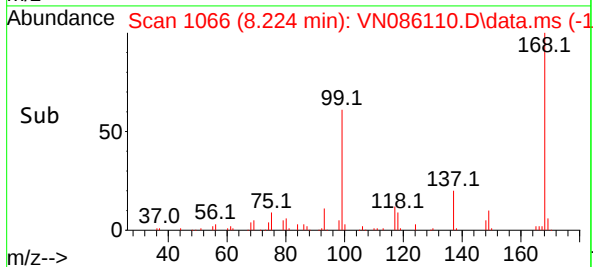
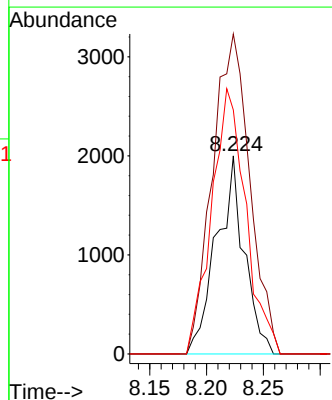
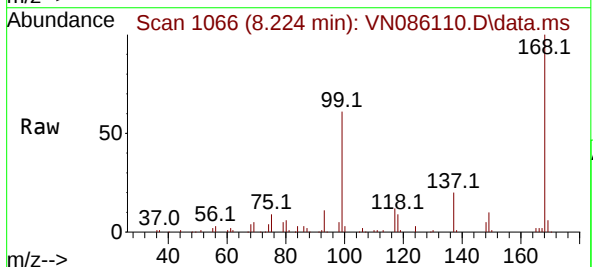
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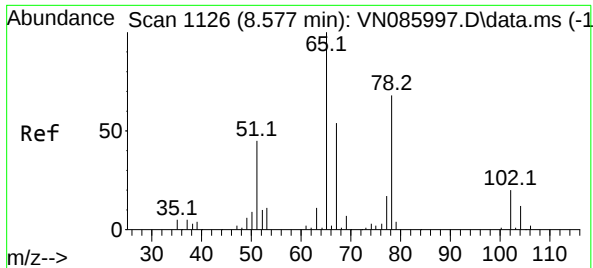
Tgt Ion: 83 Resp: 932
Ion Ratio Lower Upper
83 100
85 49.4 51.5 77.3#



#31
Cyclohexane
Concen: 1.222 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.030 min
Lab File: VN086110.D
Acq: 25 Mar 2025 19:04

Tgt Ion: 56 Resp: 3397
Ion Ratio Lower Upper
56 100
69 161.5 28.0 42.0#
84 123.2 75.0 112.6#





#33

1,2-Dichloroethane-d4

Concen: 56.908 ug/l

RT: 8.576 min Scan# 1126

Delta R.T. -0.000 min

Lab File: VN086110.D

Acq: 25 Mar 2025 19:04

Instrument :

MSVOA_N

ClientSampleId :

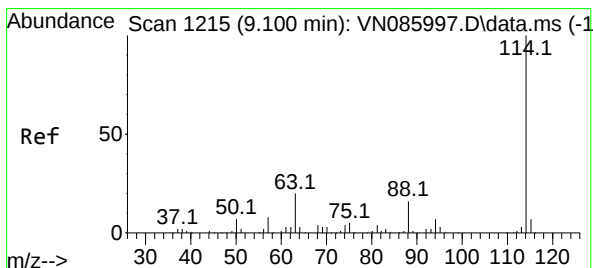
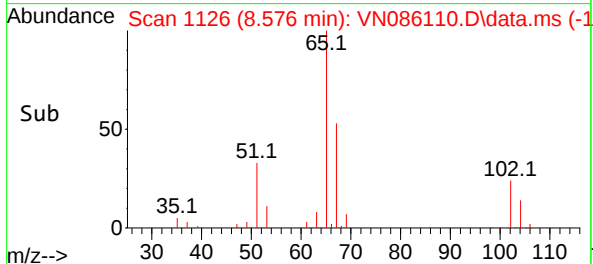
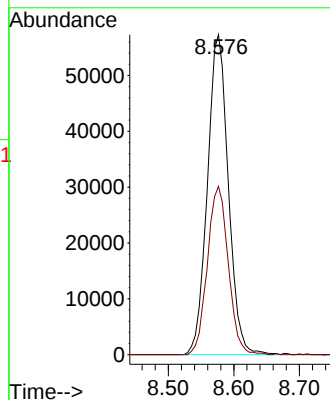
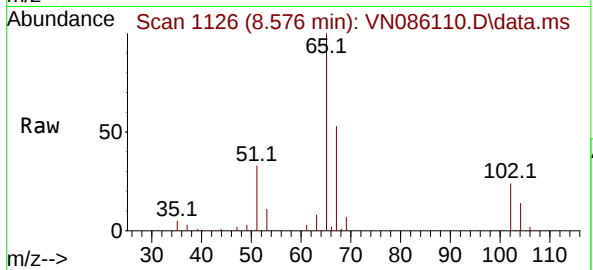
TP-5

Tgt Ion: 65 Resp: 126987

Ion Ratio Lower Upper

65 100

67 52.5 0.0 102.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. -0.000 min

Lab File: VN086110.D

Acq: 25 Mar 2025 19:04

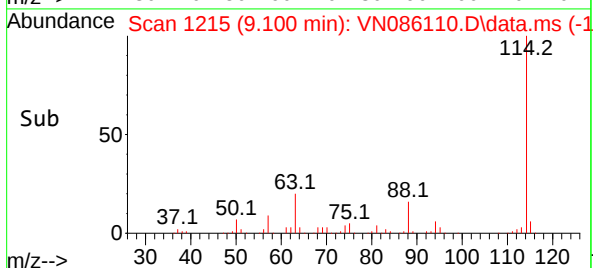
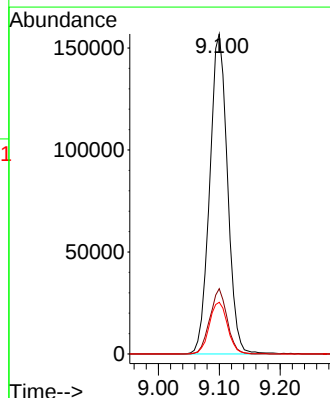
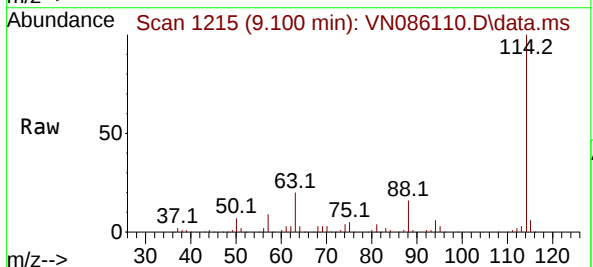
Tgt Ion: 114 Resp: 318327

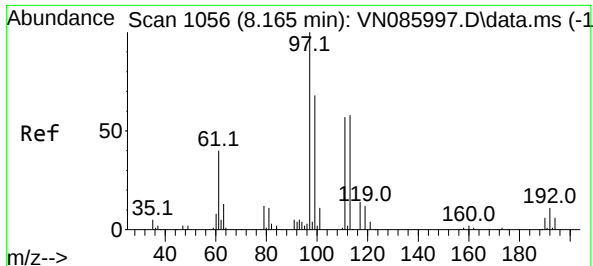
Ion Ratio Lower Upper

114 100

63 20.4 0.0 39.6

88 16.2 0.0 32.6





#35

Dibromofluoromethane

Concen: 49.815 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN086110.D

Acq: 25 Mar 2025 19:04

Instrument :

MSVOA_N

ClientSampleId :

TP-5

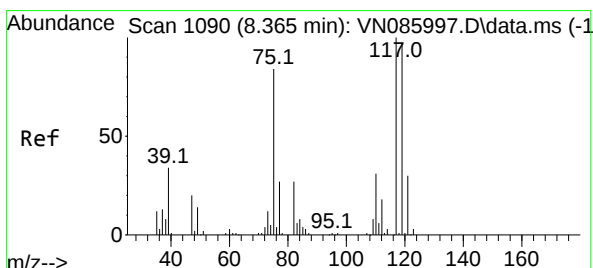
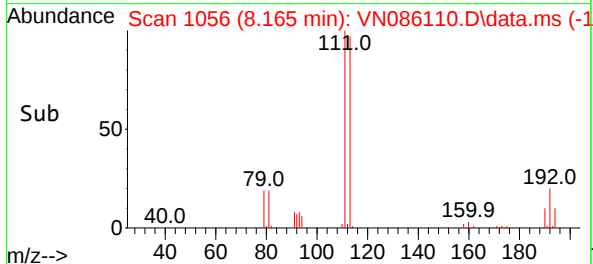
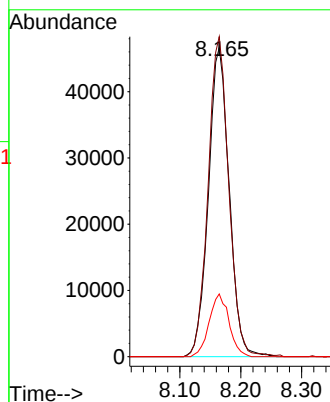
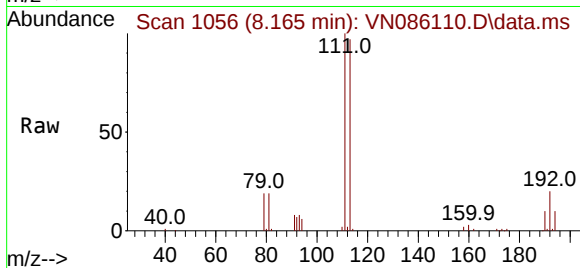
Tgt Ion:113 Resp: 110682

Ion Ratio Lower Upper

113 100

111 103.1 81.8 122.8

192 19.4 15.9 23.9



#36

1,1-Dichloropropene

Concen: 4.581 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.147 min

Lab File: VN086110.D

Acq: 25 Mar 2025 19:04

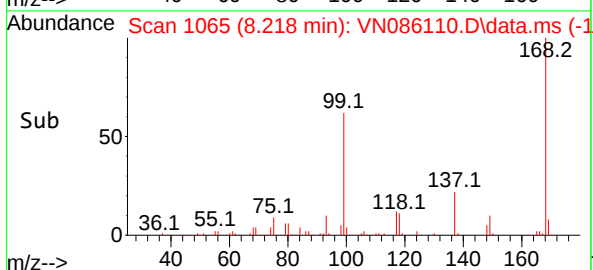
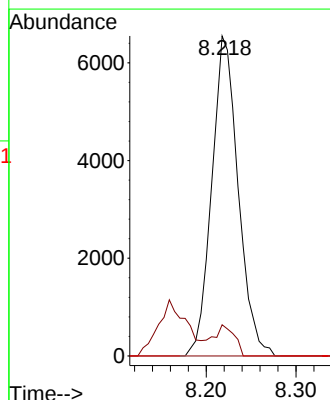
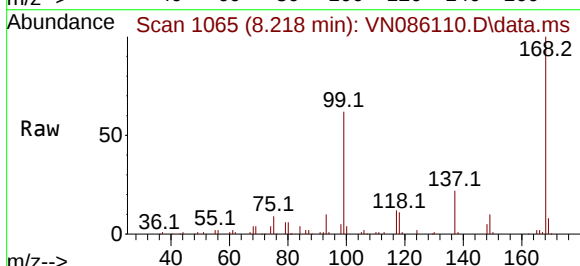
Tgt Ion: 75 Resp: 13402

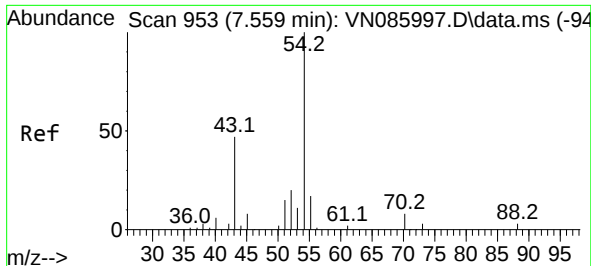
Ion Ratio Lower Upper

75 100

110 7.3 17.8 53.3#

77 0.0 25.0 37.4#

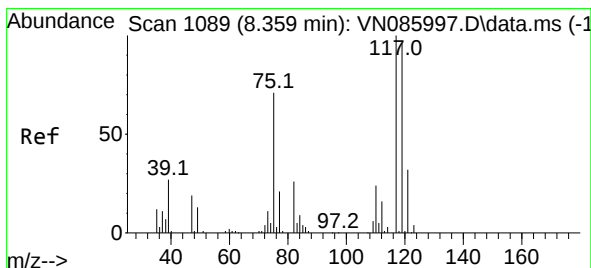
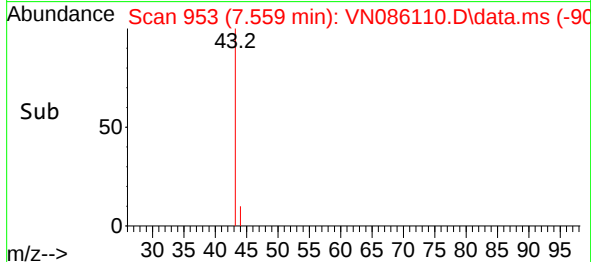
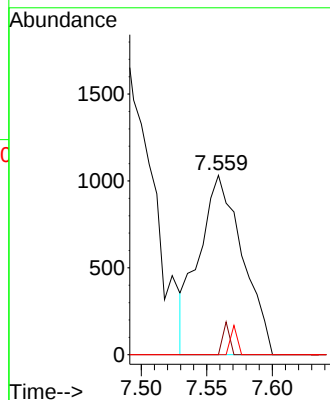
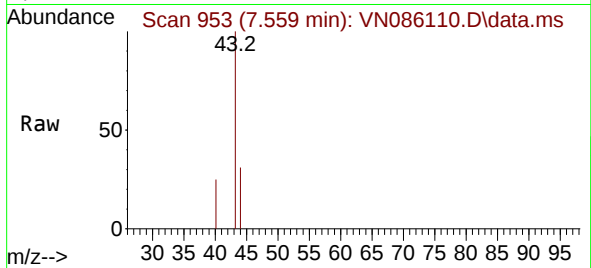




#37
Ethyl Acetate
Concen: 0.968 ug/l
RT: 7.559 min Scan# 91
Delta R.T. -0.000 min
Lab File: VN086110.D
Acq: 25 Mar 2025 19:04

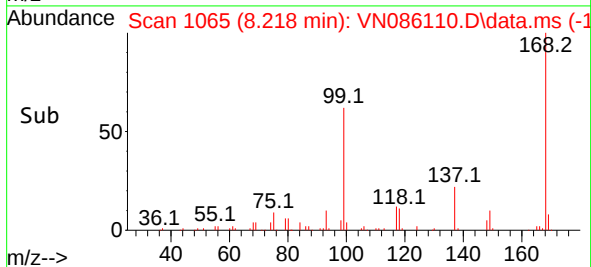
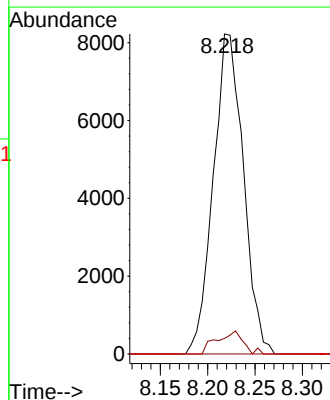
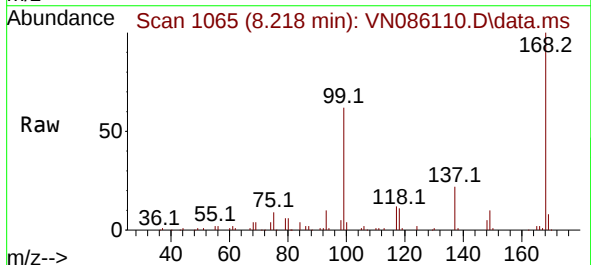
Instrument :
MSVOA_N
ClientSampleId :
TP-5

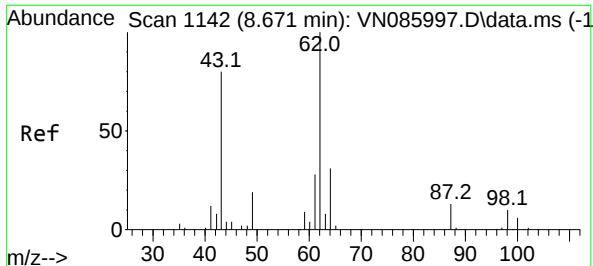
Tgt Ion: 43 Resp: 2390
Ion Ratio Lower Upper
43 100
61 2.8 13.0 19.4#
70 2.5 11.0 16.6#



#38
Carbon Tetrachloride
Concen: 4.726 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.141 min
Lab File: VN086110.D
Acq: 25 Mar 2025 19:04

Tgt Ion: 117 Resp: 18179
Ion Ratio Lower Upper
117 100
119 4.8 77.0 115.4#
121 0.0 25.6 38.4#





#42

1,2-Dichloroethane

Concen: 0.204 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. 0.017 min

Lab File: VN086110.D

Acq: 25 Mar 2025 19:04

Instrument :

MSVOA_N

ClientSampleId :

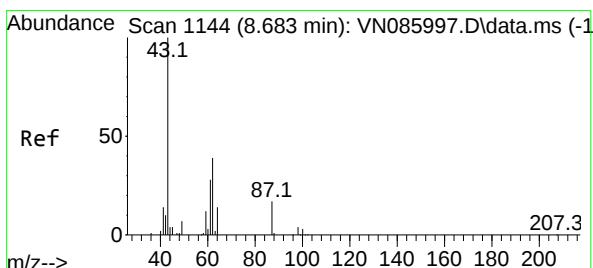
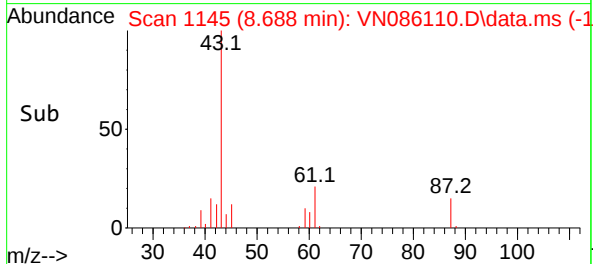
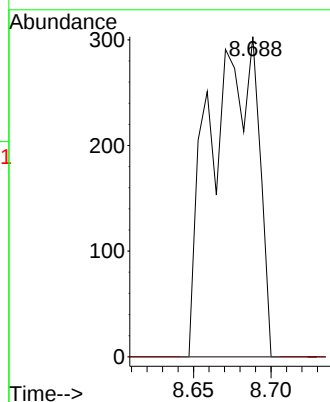
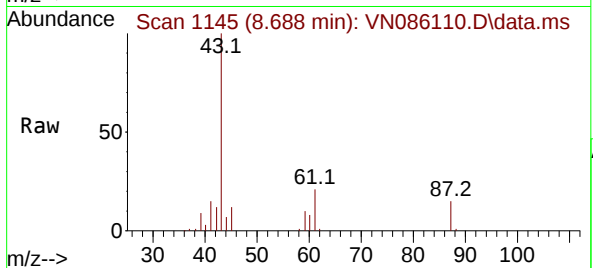
TP-5

Tgt Ion: 62 Resp: 654

Ion Ratio Lower Upper

62 100

98 0.0 0.0 18.6



#43

Isopropyl Acetate

Concen: 20.200 ug/l

RT: 8.682 min Scan# 1144

Delta R.T. -0.000 min

Lab File: VN086110.D

Acq: 25 Mar 2025 19:04

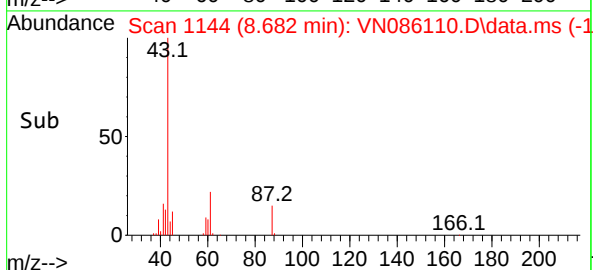
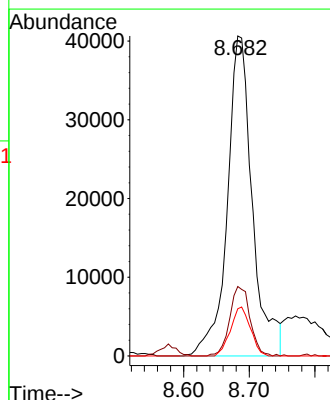
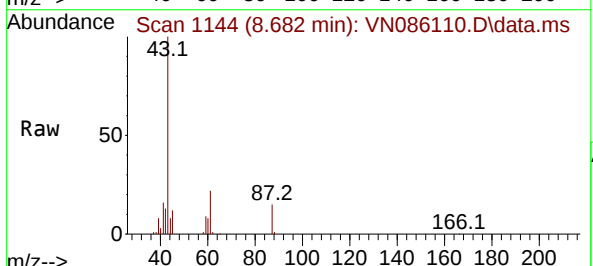
Tgt Ion: 43 Resp: 108038

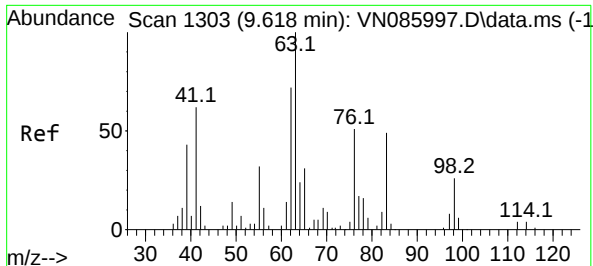
Ion Ratio Lower Upper

43 100

61 17.6 25.0 37.6#

87 12.1 13.0 19.4#





#45

1,2-Dichloropropane

Concen: 0.494 ug/l

RT: 9.741 min Scan# 1324

Delta R.T. 0.123 min

Lab File: VN086110.D

Acq: 25 Mar 2025 19:04

Instrument :

MSVOA_N

ClientSampleId :

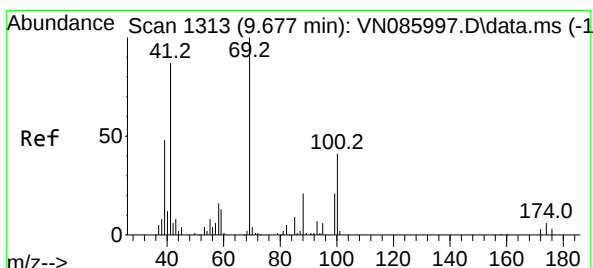
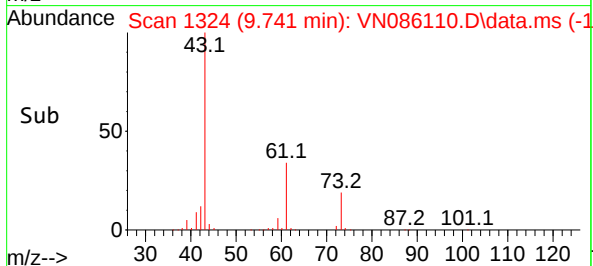
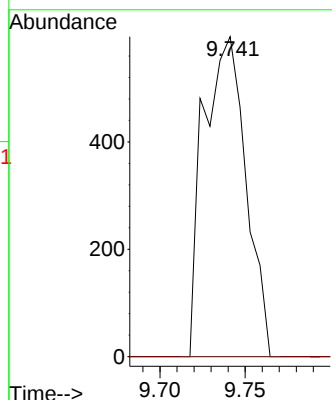
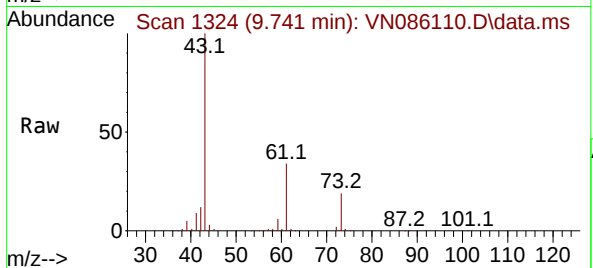
TP-5

Tgt Ion: 63 Resp: 1032

Ion Ratio Lower Upper

63 100

65 0.0 24.7 37.1#



#48

Methyl methacrylate

Concen: 42.402 ug/l

RT: 9.741 min Scan# 1324

Delta R.T. 0.064 min

Lab File: VN086110.D

Acq: 25 Mar 2025 19:04

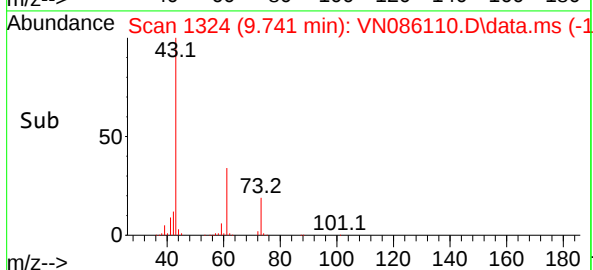
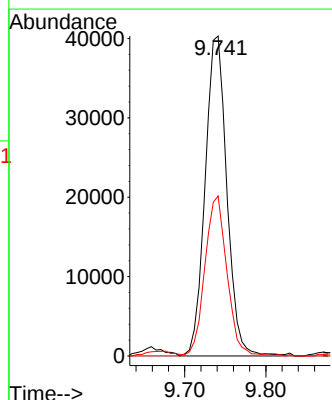
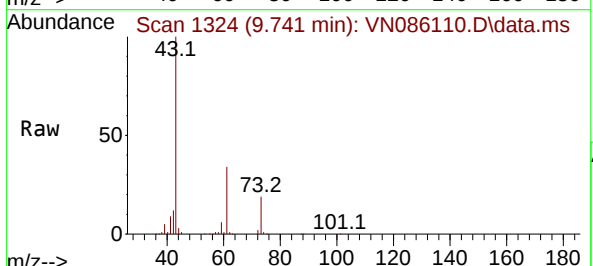
Tgt Ion: 41 Resp: 74838

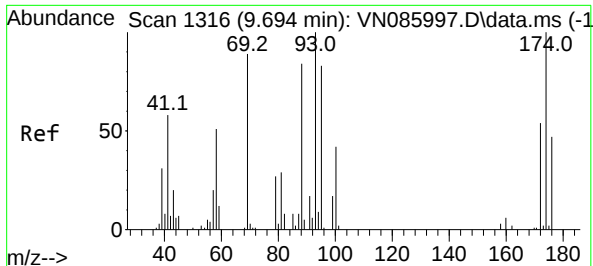
Ion Ratio Lower Upper

41 100

69 0.0 83.1 124.7#

39 49.6 45.6 68.4

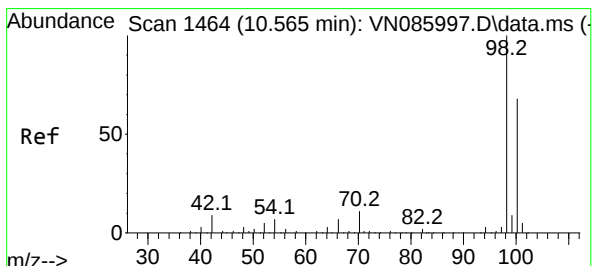
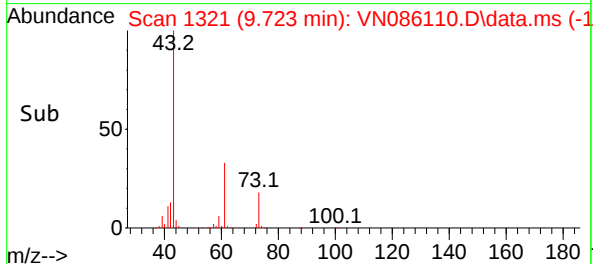
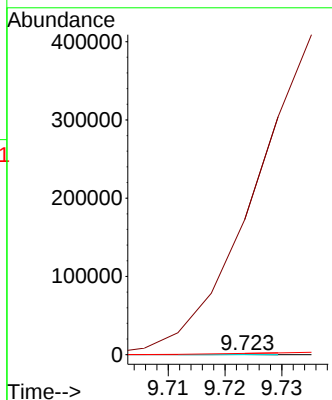
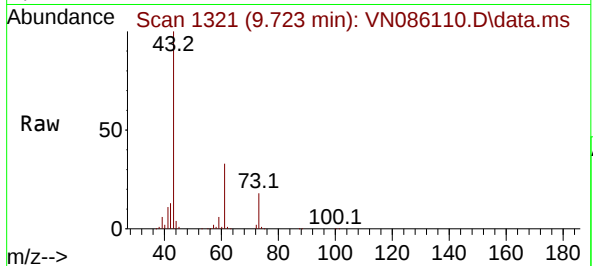




#49
1,4-Dioxane
Concen: 1.366 ug/l
RT: 9.723 min Scan# 11
Delta R.T. 0.029 min
Lab File: VN086110.D
Acq: 25 Mar 2025 19:04

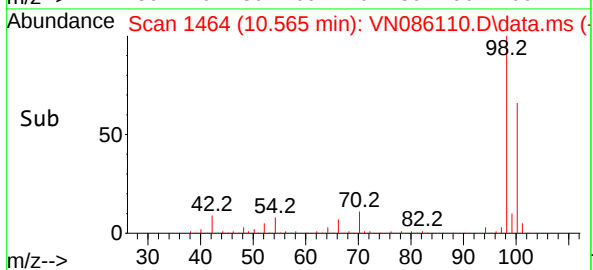
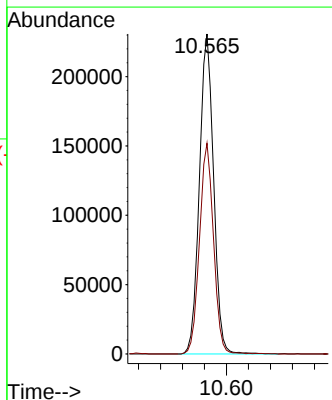
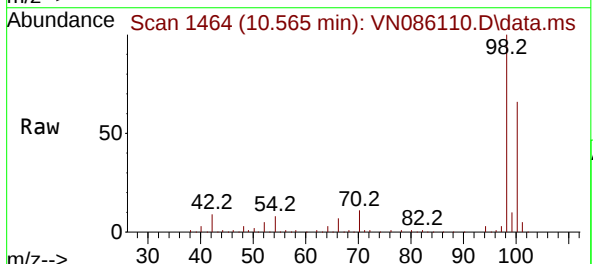
Instrument :
MSVOA_N
ClientSampleId :
TP-5

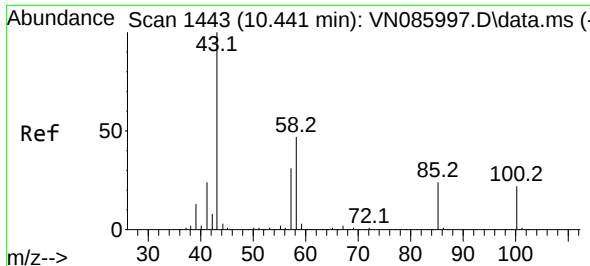
Tgt Ion: 88 Resp: 57
Ion Ratio Lower Upper
88 100
43 0.0 21.7 32.5#
58 0.0 50.4 75.6#



#50
Toluene-d8
Concen: 51.355 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN086110.D
Acq: 25 Mar 2025 19:04

Tgt Ion: 98 Resp: 414122
Ion Ratio Lower Upper
98 100
100 65.1 53.1 79.7

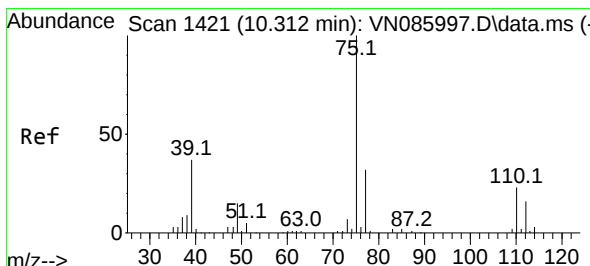
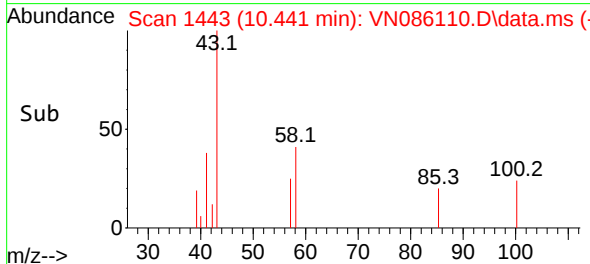
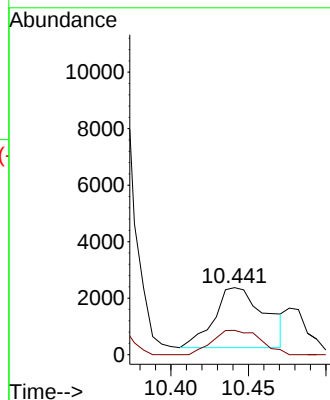
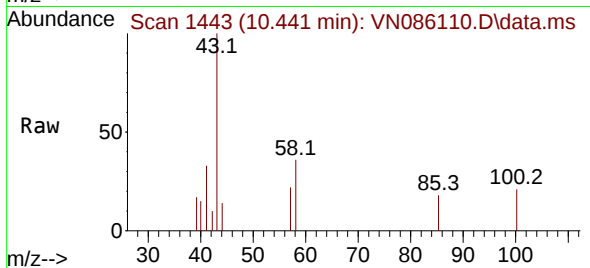




#51
4-Methyl-2-Pentanone
Concen: 2.058 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.000 min
Lab File: VN086110.D
Acq: 25 Mar 2025 19:04

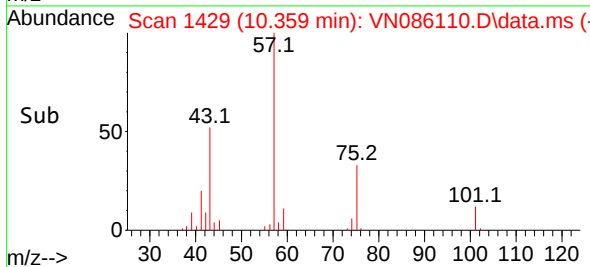
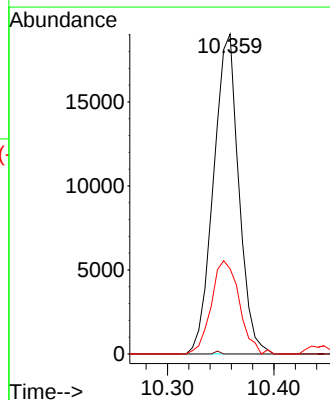
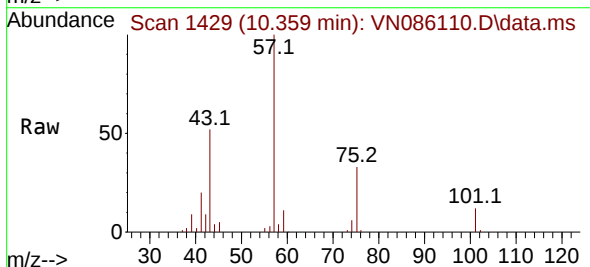
Instrument :
MSVOA_N
ClientSampleId :
TP-5

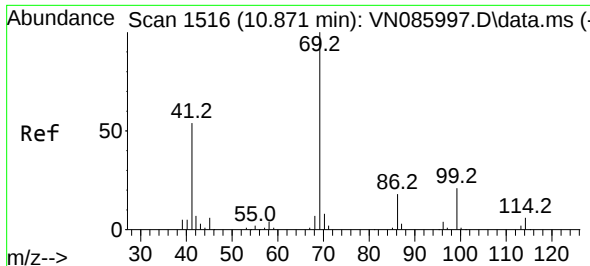
Tgt Ion: 43 Resp: 4855
Ion Ratio Lower Upper
43 100
58 38.3 37.4 56.0



#54
cis-1,3-Dichloropropene
Concen: 8.898 ug/l
RT: 10.359 min Scan# 1429
Delta R.T. 0.047 min
Lab File: VN086110.D
Acq: 25 Mar 2025 19:04

Tgt Ion: 75 Resp: 31302
Ion Ratio Lower Upper
75 100
77 0.0 25.3 37.9#
39 26.6 29.6 44.4#

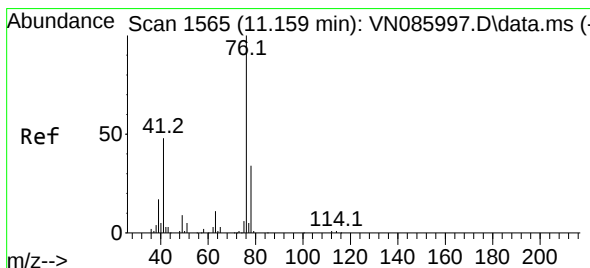
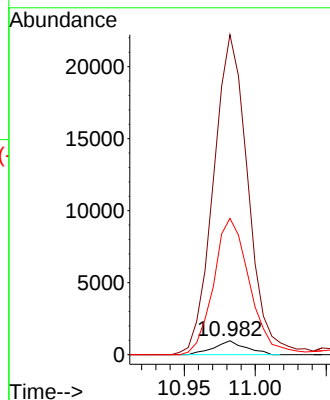
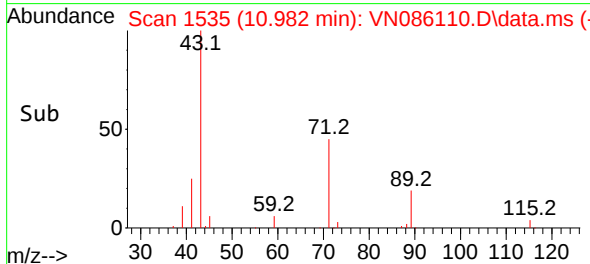
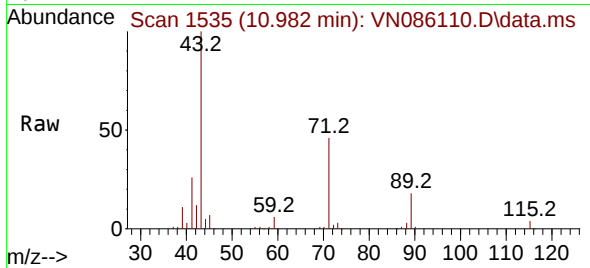




#56
Ethyl methacrylate
Concen: 0.741 ug/l
RT: 10.982 min Scan# 1535
Delta R.T. 0.111 min
Lab File: VN086110.D
Acq: 25 Mar 2025 19:04

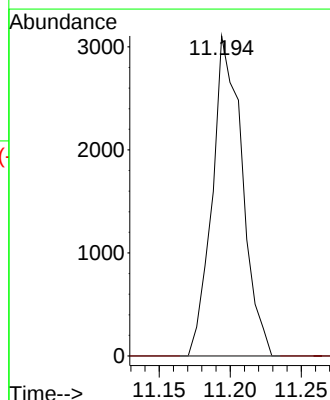
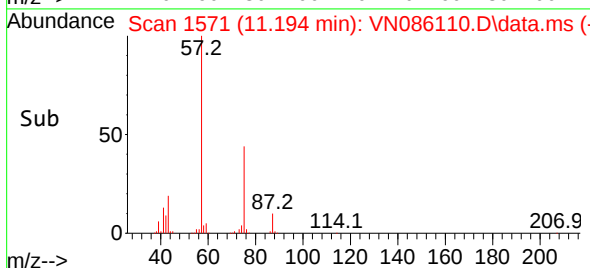
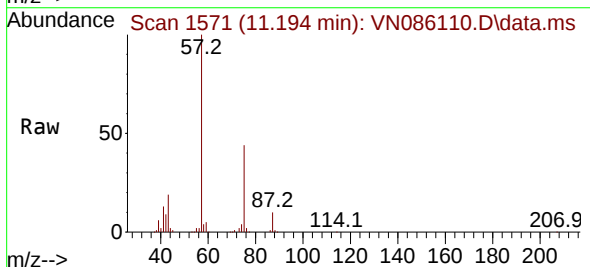
Instrument :
MSVOA_N
ClientSampleId :
TP-5

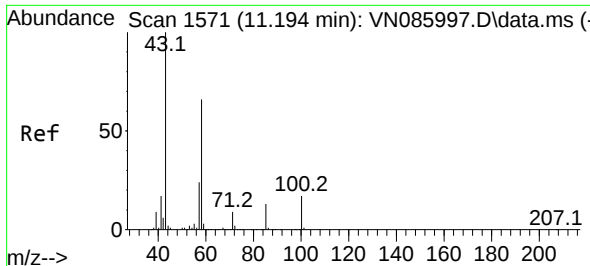
Tgt Ion: 69 Resp: 1503
Ion Ratio Lower Upper
69 100
41 2510.5 41.6 62.4#
39 1113.9 21.8 32.8#



#57
1,3-Dichloropropane
Concen: 1.245 ug/l
RT: 11.194 min Scan# 1571
Delta R.T. 0.035 min
Lab File: VN086110.D
Acq: 25 Mar 2025 19:04

Tgt Ion: 76 Resp: 4551
Ion Ratio Lower Upper
76 100
78 0.0 25.8 38.6#

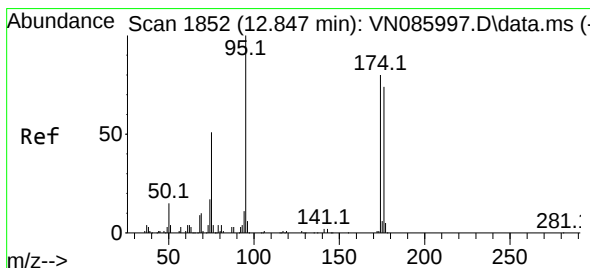
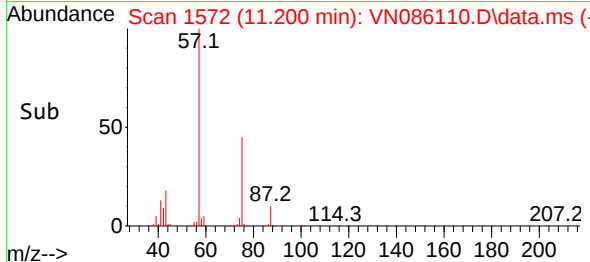
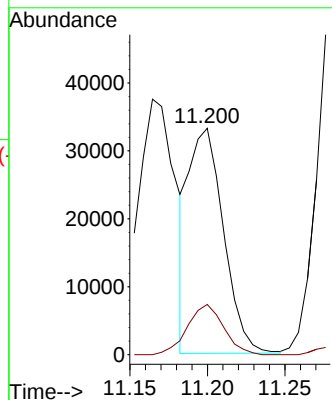
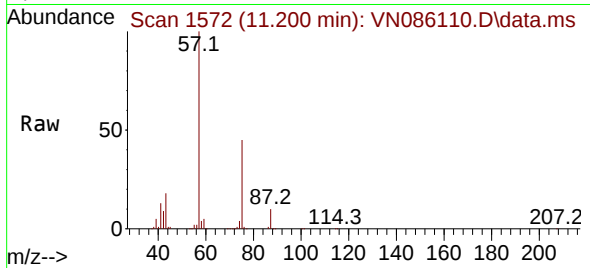




#59
2-Hexanone
Concen: 30.170 ug/l
RT: 11.200 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN086110.D
Acq: 25 Mar 2025 19:04

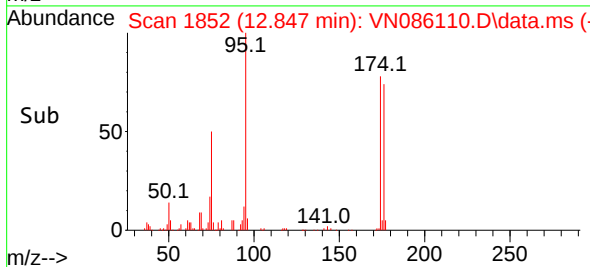
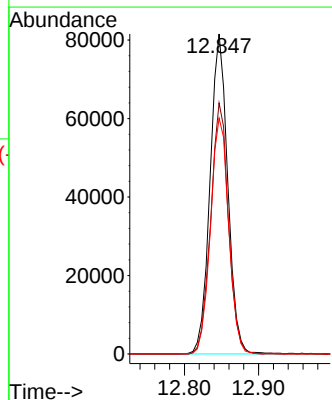
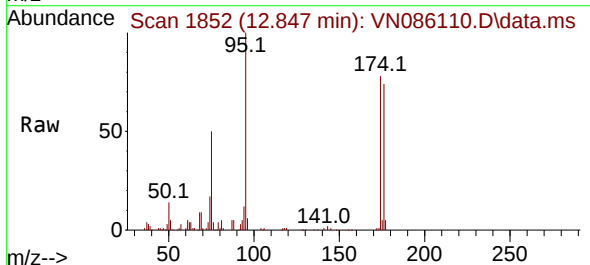
Instrument :
MSVOA_N
ClientSampleId :
TP-5

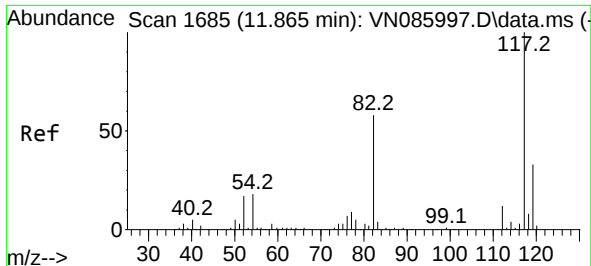
Tgt Ion: 43 Resp: 51843
Ion Ratio Lower Upper
43 100
58 23.2 32.4 97.2#



#62
4-Bromofluorobenzene
Concen: 46.836 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086110.D
Acq: 25 Mar 2025 19:04

Tgt Ion: 95 Resp: 134691
Ion Ratio Lower Upper
95 100
174 78.9 0.0 156.8
176 75.8 0.0 152.2

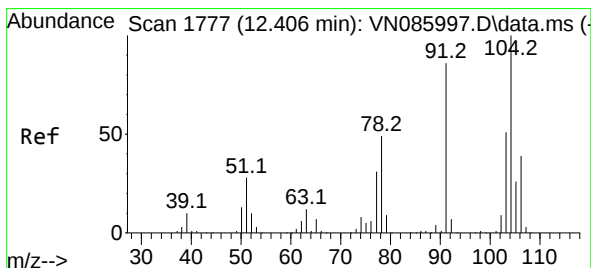
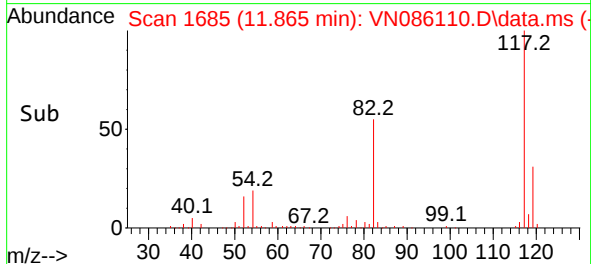
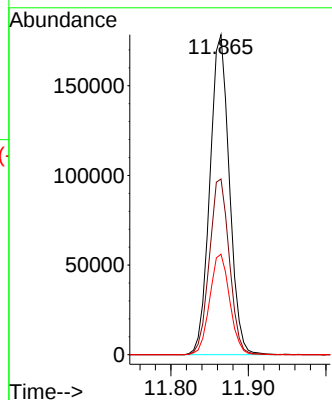
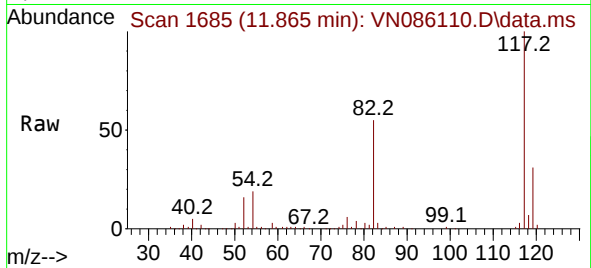




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. -0.000 min
Lab File: VN086110.D
Acq: 25 Mar 2025 19:04

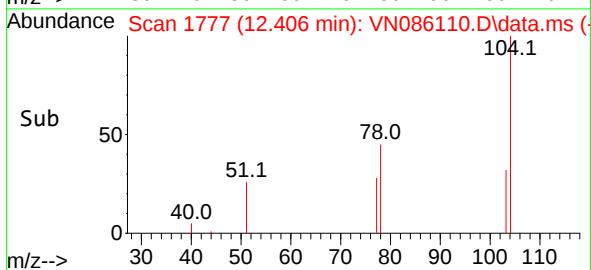
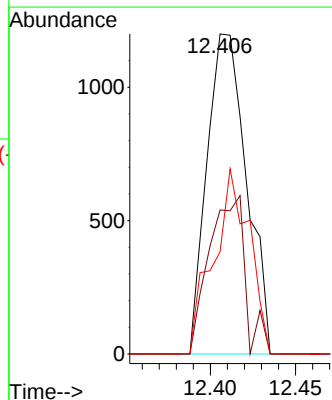
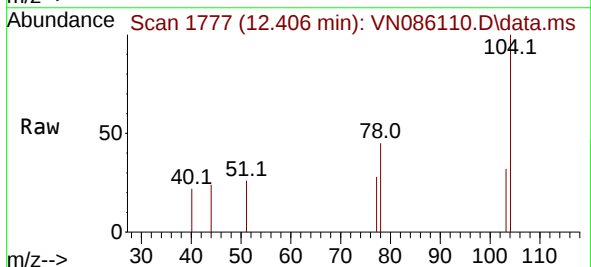
Instrument :
MSVOA_N
ClientSampleId :
TP-5

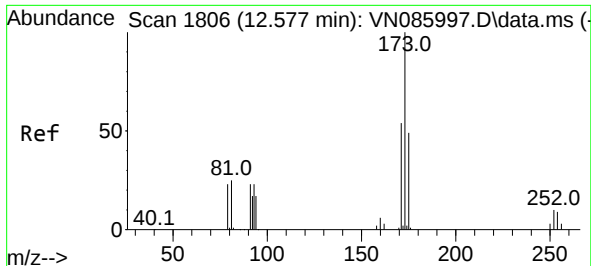
Tgt Ion:117 Resp: 311916
Ion Ratio Lower Upper
117 100
82 54.9 46.7 70.1
119 31.4 26.5 39.7



#70
Styrene
Concen: 0.276 ug/l
RT: 12.406 min Scan# 1777
Delta R.T. -0.000 min
Lab File: VN086110.D
Acq: 25 Mar 2025 19:04

Tgt Ion:104 Resp: 1944
Ion Ratio Lower Upper
104 100
78 44.8 41.4 62.2
103 52.3 42.9 64.3

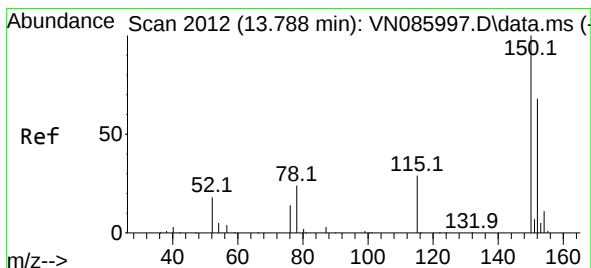
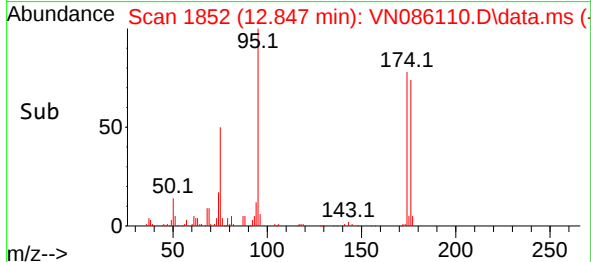
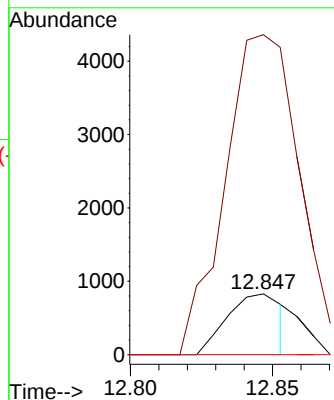
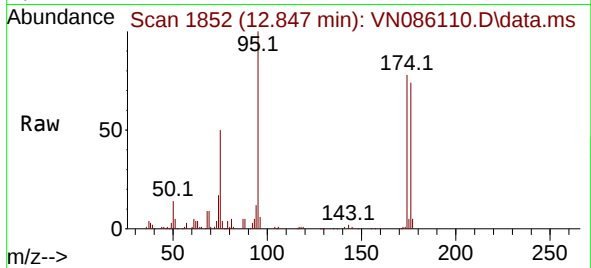




#71
Bromoform
Concen: 0.499 ug/l
RT: 12.847 min Scan# 1806
Delta R.T. 0.270 min
Lab File: VN086110.D
Acq: 25 Mar 2025 19:04

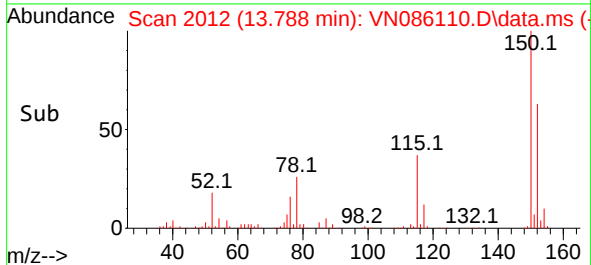
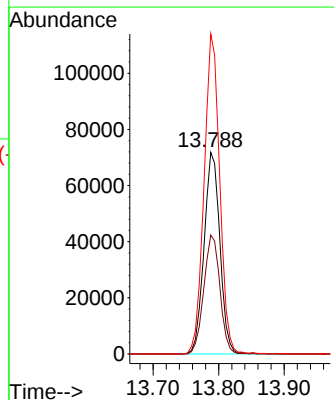
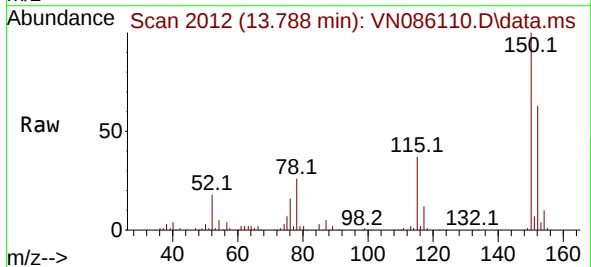
Instrument :
MSVOA_N
ClientSampleId :
TP-5

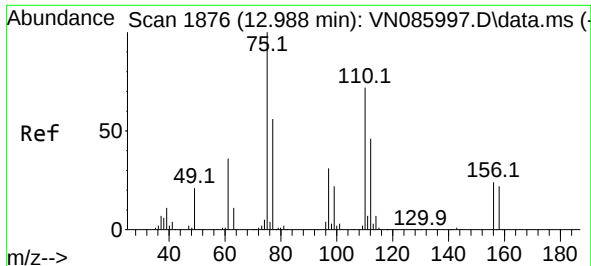
Tgt Ion:173 Resp: 1106
Ion Ratio Lower Upper
173 100
175 568.0 24.3 73.0#
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.000 min
Lab File: VN086110.D
Acq: 25 Mar 2025 19:04

Tgt Ion:152 Resp: 120981
Ion Ratio Lower Upper
152 100
115 59.9 31.1 93.2
150 156.5 0.0 359.6

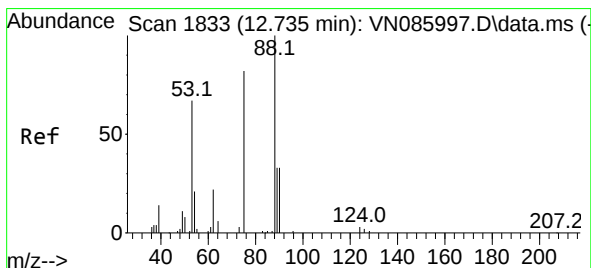
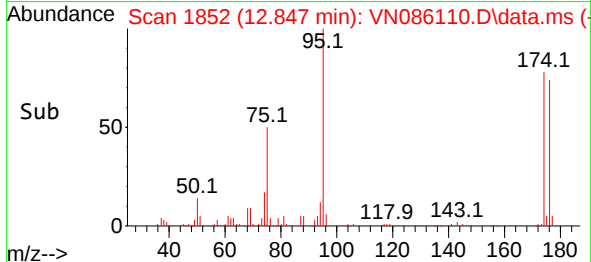
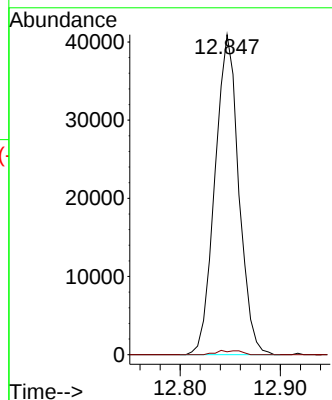
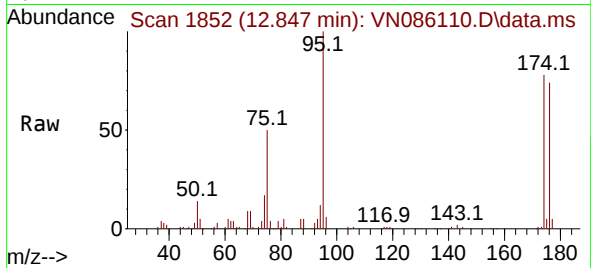




#76
1,2,3-Trichloropropane
Concen: 25.001 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.141 min
Lab File: VN086110.D
Acq: 25 Mar 2025 19:04

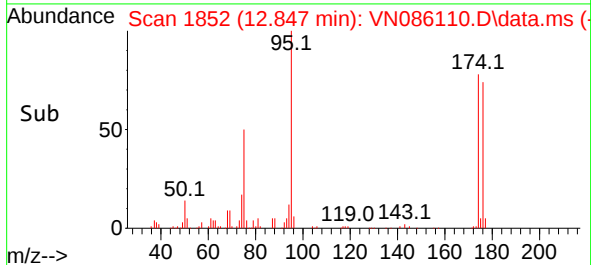
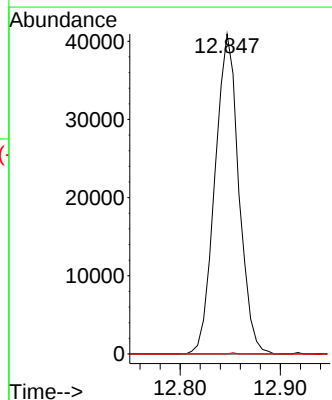
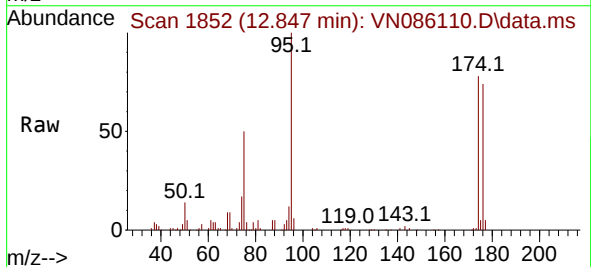
Instrument :
MSVOA_N
ClientSampleId :
TP-5

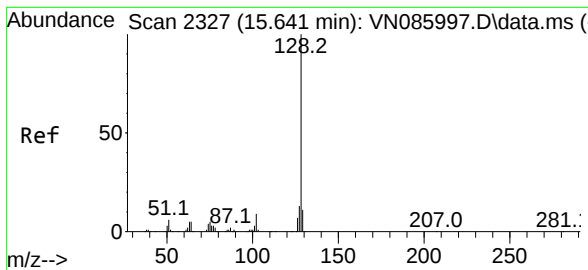
Tgt Ion: 75 Resp: 67716
Ion Ratio Lower Upper
75 100
77 1.3 83.7 251.0#



#81
trans-1,4-Dichloro-2-butene
Concen: 66.098 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.111 min
Lab File: VN086110.D
Acq: 25 Mar 2025 19:04

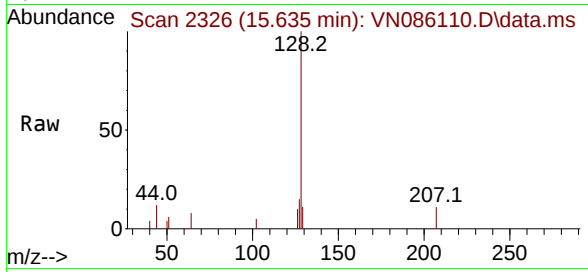
Tgt Ion: 75 Resp: 67716
Ion Ratio Lower Upper
75 100
53 0.0 66.0 99.0#
89 0.1 36.9 55.3#





#95
 Naphthalene
 Concen: 1.193 ug/l
 RT: 15.635 min Scan# 21
 Delta R.T. -0.006 min
 Lab File: VN086110.D
 Acq: 25 Mar 2025 19:04

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-5



Tgt Ion:	128	Resp:	7171
Ion	Ratio	Lower	Upper
128	100		
127	15.0	10.2	15.4
129	10.5	9.0	13.6

