

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
 Data File : VN086880.D
 Acq On : 06 Jun 2025 20:36
 Operator : JC\MD
 Sample : Q2216-06
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 3851

Quant Time: Jun 07 02:31:07 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 02:12:50 2025
 Response via : Initial Calibration

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

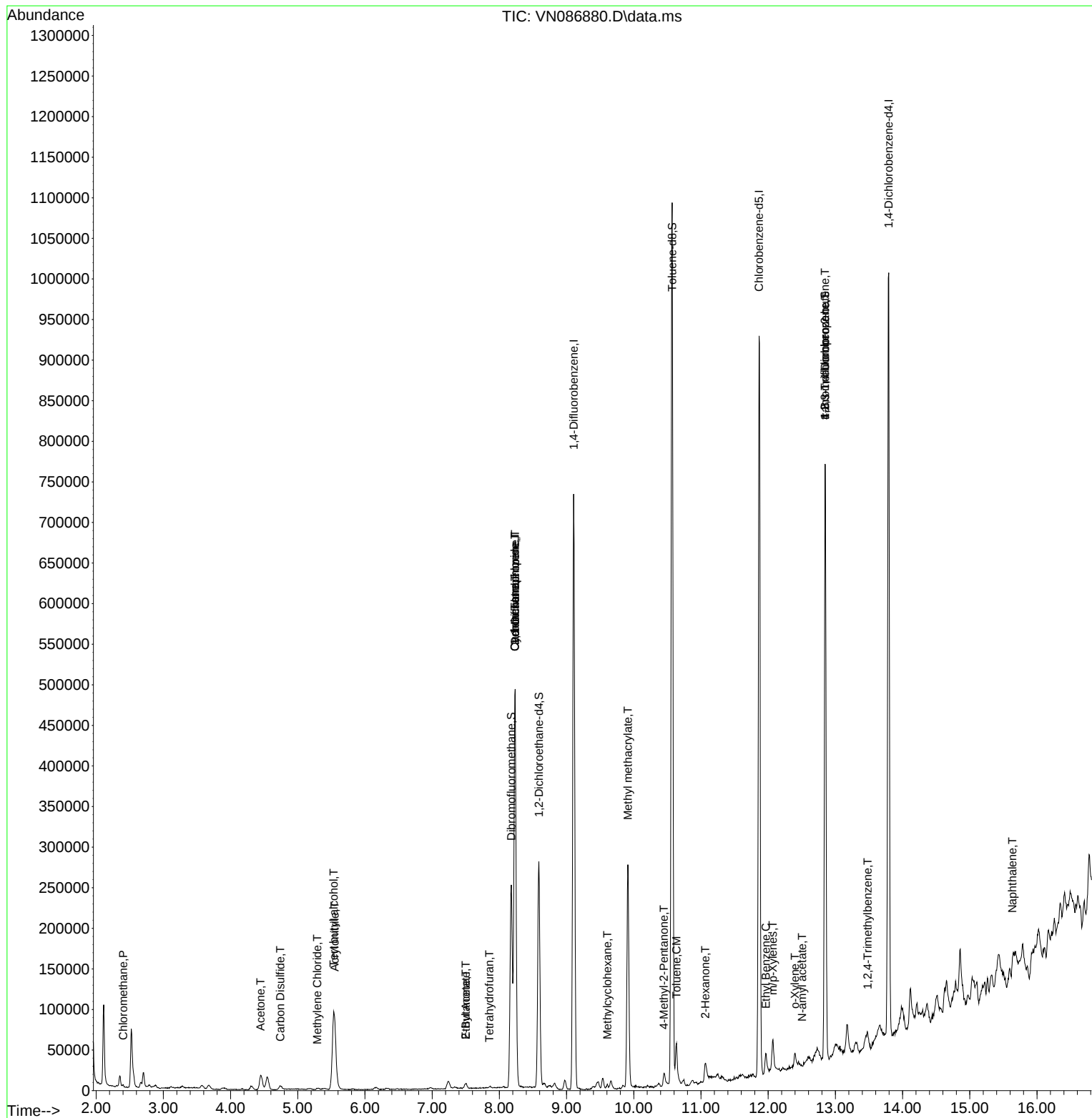
Internal Standards						
1) Pentafluorobenzene	8.236	168	389939	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	683310	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	586008	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	285893	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	224320	42.966	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	85.940%		
35) Dibromofluoromethane	8.177	113	193542	47.795	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	95.580%		
50) Toluene-d8	10.571	98	807110	50.348	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	100.700%		
62) 4-Bromofluorobenzene	12.847	95	288404	48.423	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	96.840%		
Target Compounds						
					Qvalue	
3) Chloromethane	2.401	50	2421	0.482	ug/l	97
11) Tert butyl alcohol	5.536	59	216795	153.036	ug/l	99
15) Acrylonitrile	5.547	53	1186	0.358	ug/l #	8
16) Acetone	4.448	43	36348	13.128	ug/l	100
17) Carbon Disulfide	4.742	76	3928	0.327	ug/l #	75
20) Methylene Chloride	5.289	84	1513	0.292	ug/l #	73
25) 2-Butanone	7.500	43	11003	2.445	ug/l	92
29) Tetrahydrofuran	7.853	42	1331	0.454	ug/l #	63
31) Cyclohexane	8.230	56	9481	1.120	ug/l #	1
36) 1,1-Dichloropropene	8.236	75	28936	4.795	ug/l #	48
37) Ethyl Acetate	7.500	43	11003	1.432	ug/l #	66
38) Carbon Tetrachloride	8.230	117	38640	6.523	ug/l #	16
39) Methylcyclohexane	9.606	83	2227	0.269	ug/l	89
48) Methyl methacrylate	9.912	41	111652	19.676	ug/l #	26
51) 4-Methyl-2-Pentanone	10.447	43	13335	1.797	ug/l	95
52) Toluene	10.635	92	23173	1.922	ug/l	97
59) 2-Hexanone	11.065	43	20055	4.195	ug/l	73
67) Ethyl Benzene	11.965	91	17136	0.770	ug/l	96
68) m/p-Xylenes	12.071	106	12444	1.460	ug/l	100
69) o-Xylene	12.400	106	5077	0.622	ug/l	95
74) N-amyl acetate	12.506	43	1546	0.212	ug/l #	47
76) 1,2,3-Trichloropropane	12.847	75	133313	19.617	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	133313	45.157	ug/l #	16
84) 1,2,4-Trimethylbenzene	13.482	105	4482	0.260	ug/l	84
95) Naphthalene	15.635	128	39317	1.832	ug/l #	88

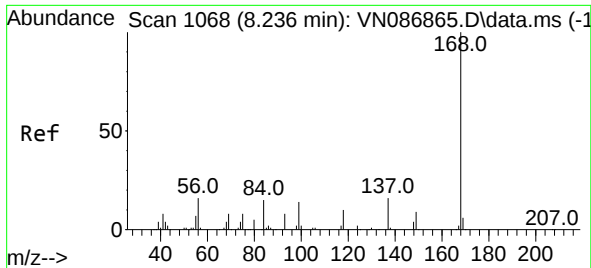
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
Data File : VN086880.D
Acq On : 06 Jun 2025 20:36
Operator : JC\MD
Sample : Q2216-06
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
3851

Quant Time: Jun 07 02:31:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

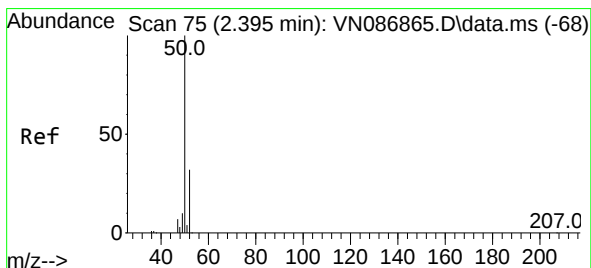
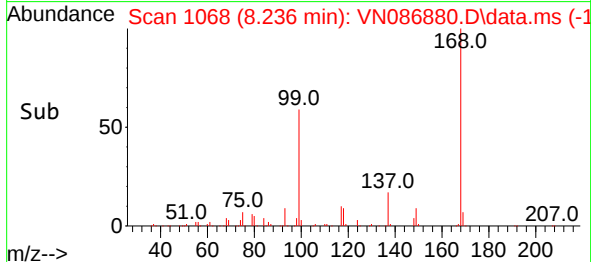
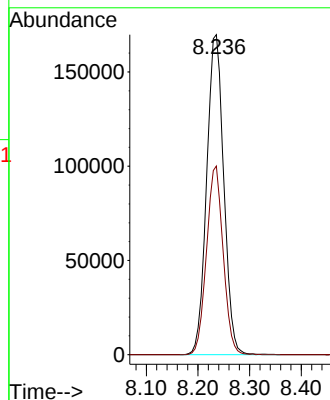
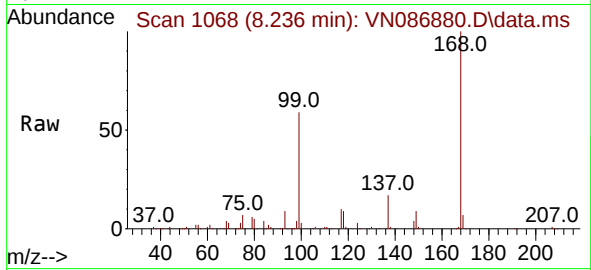




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.236 min Scan# 1068
Delta R.T. -0.000 min
Lab File: VN086880.D
Acq: 06 Jun 2025 20:36

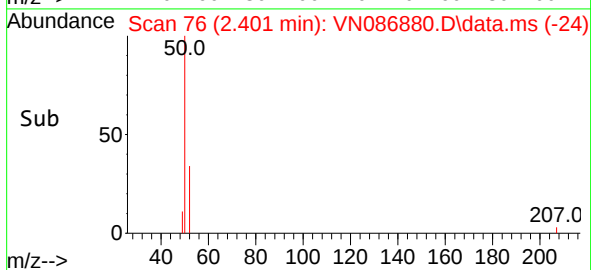
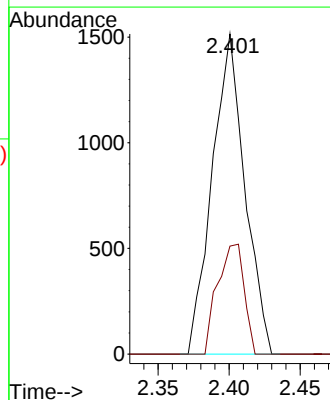
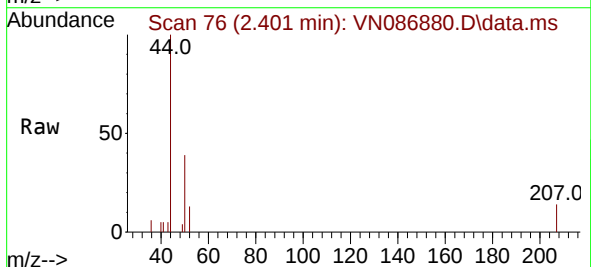
Instrument :
MSVOA_N
ClientSampleId :
3851

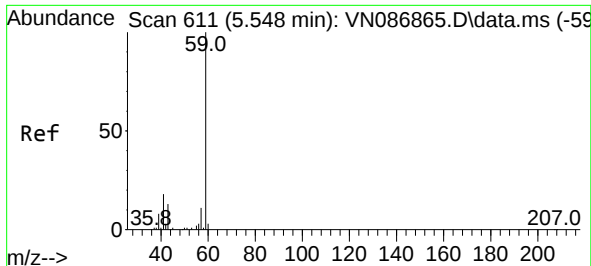
Tgt Ion:168 Resp: 389939
Ion Ratio Lower Upper
168 100
99 58.9 49.1 73.7



#3
Chloromethane
Concen: 0.482 ug/l
RT: 2.401 min Scan# 76
Delta R.T. 0.006 min
Lab File: VN086880.D
Acq: 06 Jun 2025 20:36

Tgt Ion: 50 Resp: 2421
Ion Ratio Lower Upper
50 100
52 33.7 25.7 38.5

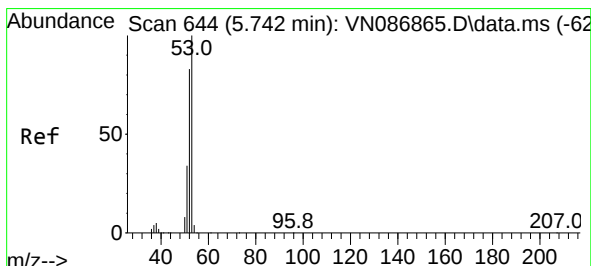
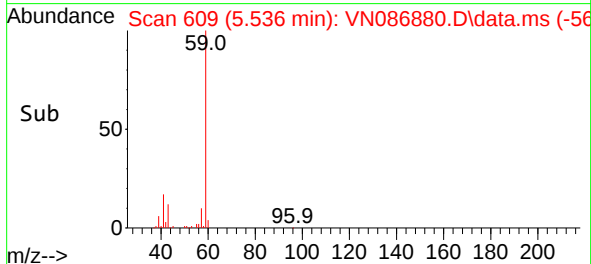
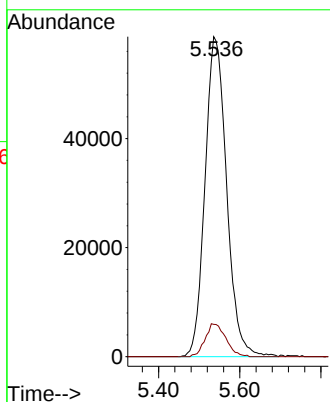
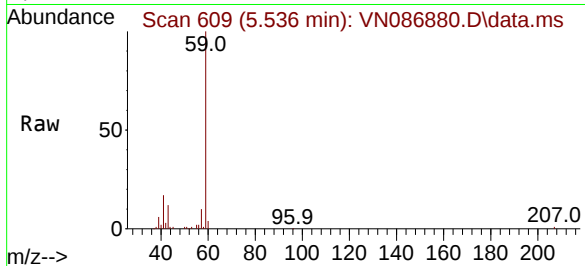




#11
Tert butyl alcohol
Concen: 153.036 ug/l
RT: 5.536 min Scan# 609
Delta R.T. -0.012 min
Lab File: VN086880.D
Acq: 06 Jun 2025 20:36

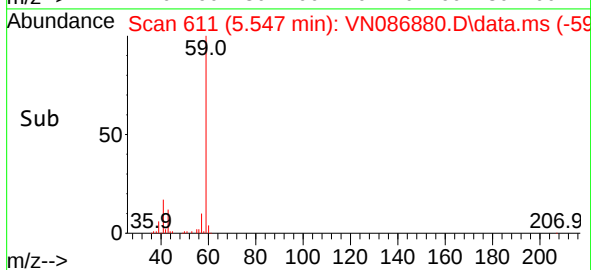
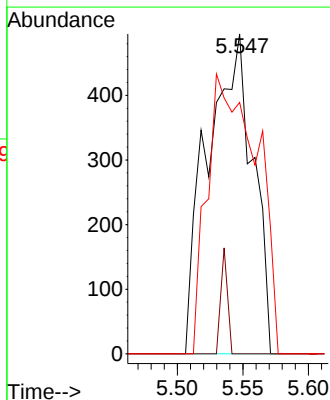
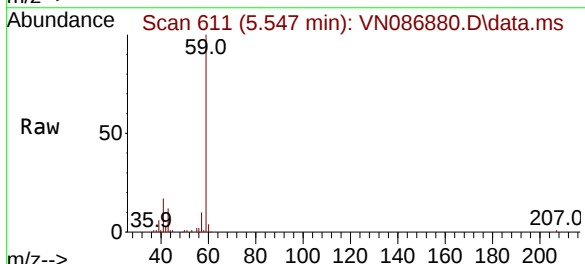
Instrument :
MSVOA_N
ClientSampleId :
3851

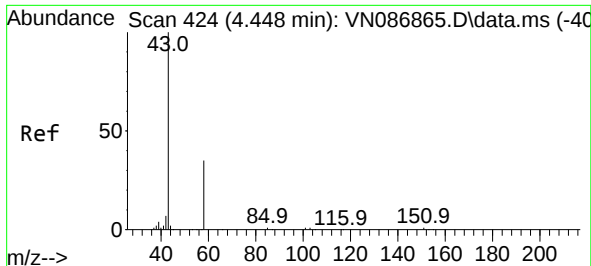
Tgt Ion: 59 Resp: 216795
Ion Ratio Lower Upper
59 100
57 9.8 8.1 12.1



#15
Acrylonitrile
Concen: 0.358 ug/l
RT: 5.547 min Scan# 611
Delta R.T. -0.194 min
Lab File: VN086880.D
Acq: 06 Jun 2025 20:36

Tgt Ion: 53 Resp: 1186
Ion Ratio Lower Upper
53 100
52 4.9 65.0 97.6#
51 96.0 27.2 40.8#

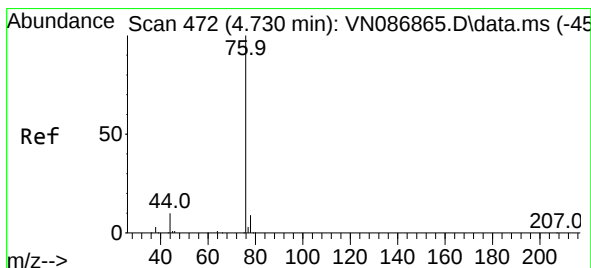
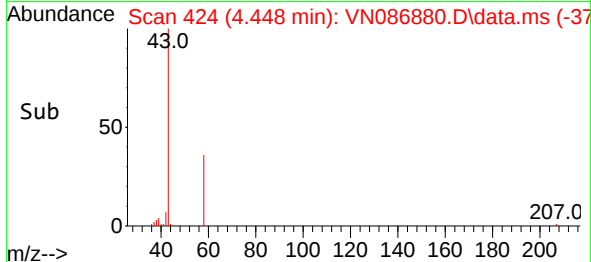
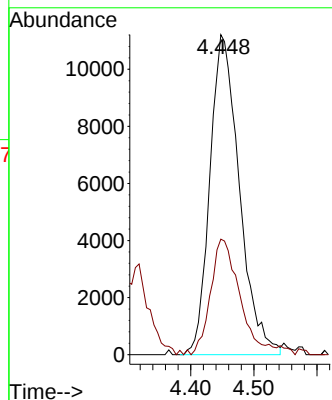
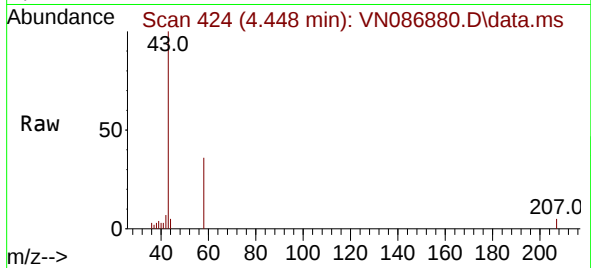




#16
Acetone
Concen: 13.128 ug/l
RT: 4.448 min Scan# 41
Delta R.T. -0.000 min
Lab File: VN086880.D
Acq: 06 Jun 2025 20:36

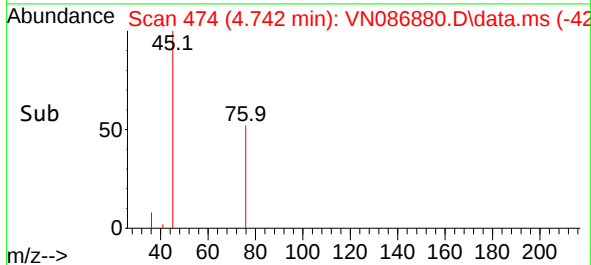
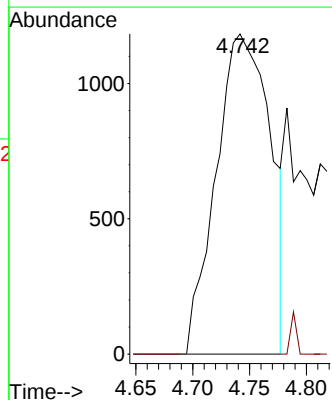
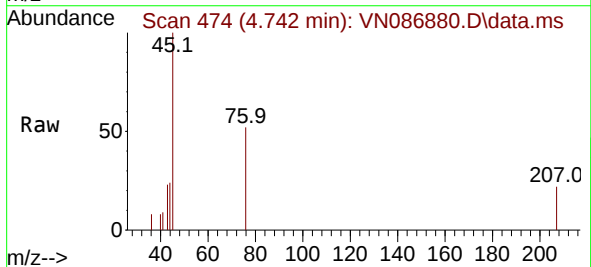
Instrument :
MSVOA_N
ClientSampleId :
3851

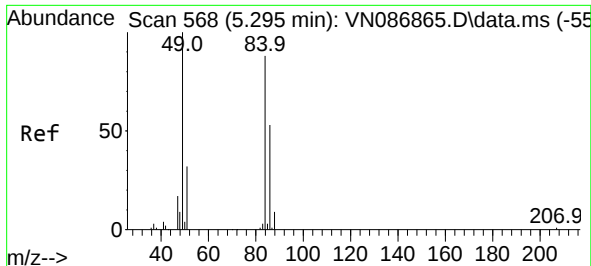
Tgt Ion: 43 Resp: 36348
Ion Ratio Lower Upper
43 100
58 34.8 28.0 42.0



#17
Carbon Disulfide
Concen: 0.327 ug/l
RT: 4.742 min Scan# 474
Delta R.T. 0.012 min
Lab File: VN086880.D
Acq: 06 Jun 2025 20:36

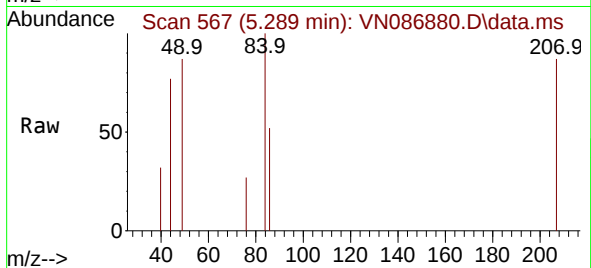
Tgt Ion: 76 Resp: 3928
Ion Ratio Lower Upper
76 100
78 0.0 7.3 10.9#





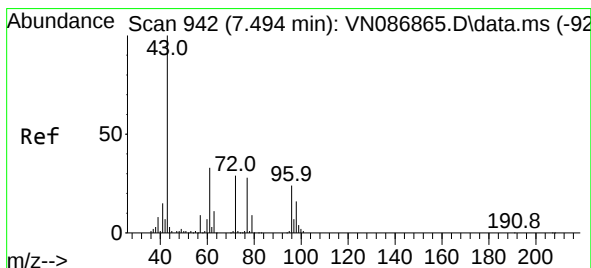
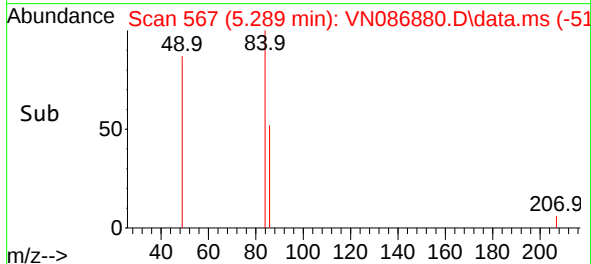
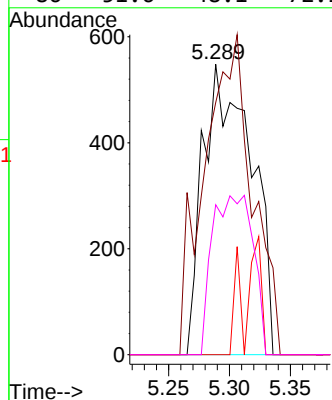
#20
Methylene Chloride
Concen: 0.292 ug/l
RT: 5.289 min Scan# 51
Delta R.T. -0.006 min
Lab File: VN086880.D
Acq: 06 Jun 2025 20:36

Instrument :
MSVOA_N
ClientSampleId :
3851



Tgt Ion: 84 Resp: 1513

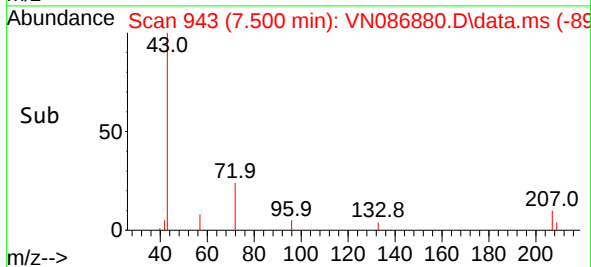
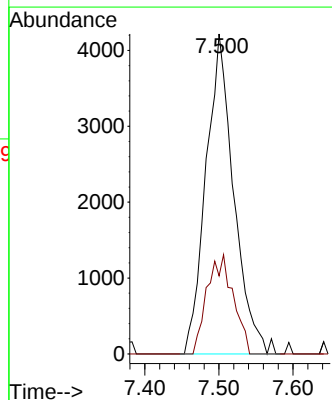
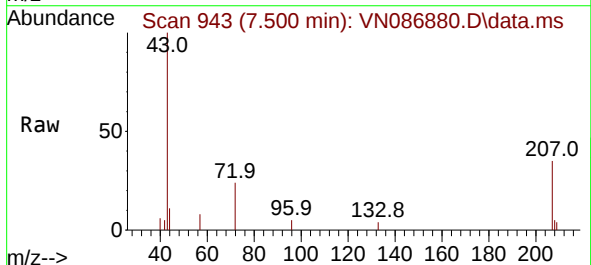
Ion	Ratio	Lower	Upper
84	100		
49	86.9	90.5	135.7#
51	0.0	28.5	42.7#
86	51.6	48.1	72.1

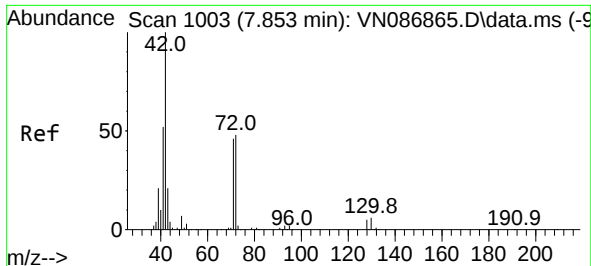


#25
2-Butanone
Concen: 2.445 ug/l
RT: 7.500 min Scan# 943
Delta R.T. 0.006 min
Lab File: VN086880.D
Acq: 06 Jun 2025 20:36

Tgt Ion: 43 Resp: 11003

Ion	Ratio	Lower	Upper
43	100		
72	24.4	23.0	34.6





#29

Tetrahydrofuran

Concen: 0.454 ug/l

RT: 7.853 min Scan# 1003

Delta R.T. -0.000 min

Lab File: VN086880.D

Acq: 06 Jun 2025 20:36

Instrument :

MSVOA_N

ClientSampleId :

3851

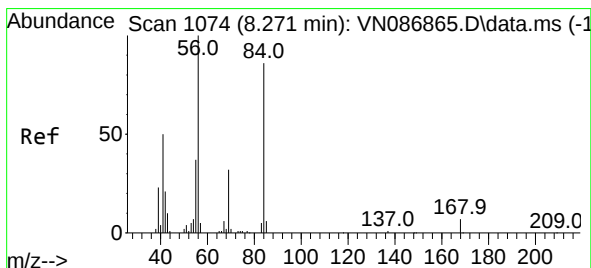
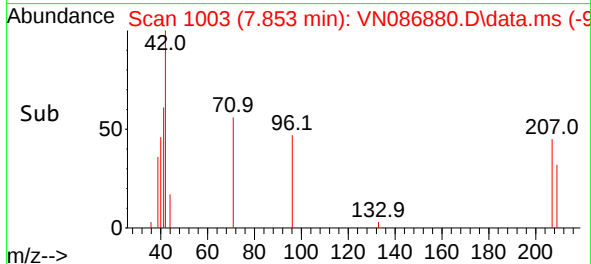
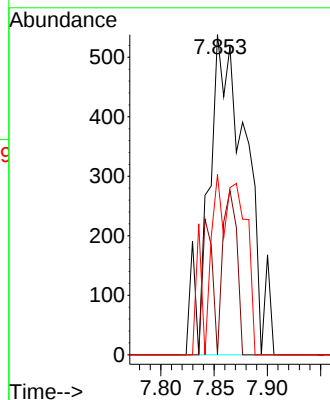
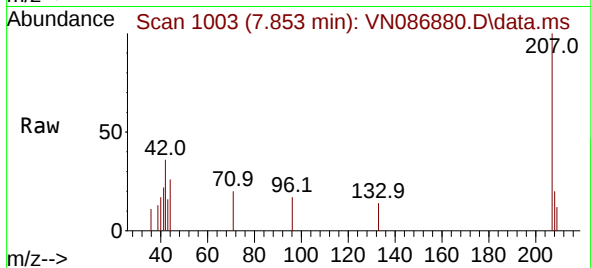
Tgt Ion: 42 Resp: 1331

Ion Ratio Lower Upper

42 100

72 18.9 37.8 56.6#

71 24.3 35.6 53.4#



#31

Cyclohexane

Concen: 1.120 ug/l

RT: 8.230 min Scan# 1067

Delta R.T. -0.041 min

Lab File: VN086880.D

Acq: 06 Jun 2025 20:36

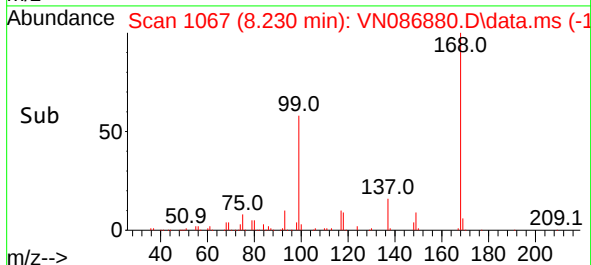
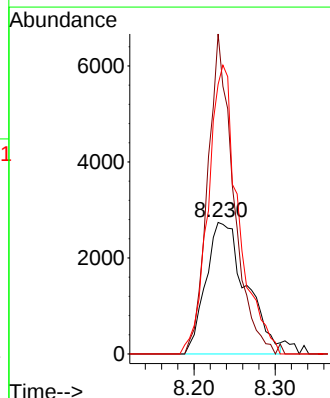
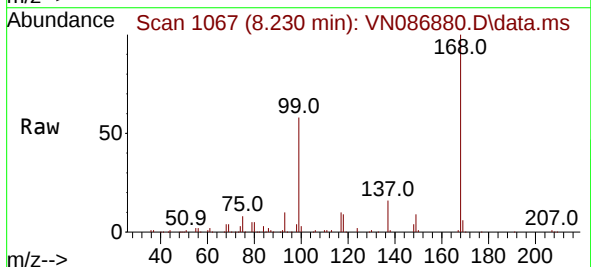
Tgt Ion: 56 Resp: 9481

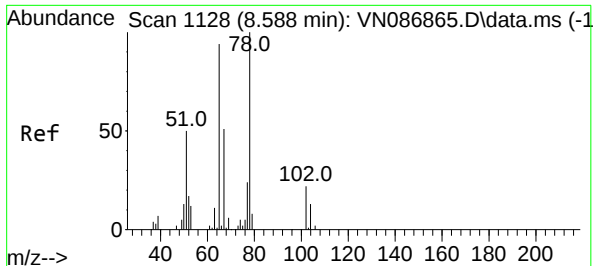
Ion Ratio Lower Upper

56 100

69 243.3 25.4 38.0#

84 205.0 68.8 103.2#





#33

1,2-Dichloroethane-d4

Concen: 42.966 ug/l

RT: 8.588 min Scan# 1128

Delta R.T. -0.000 min

Lab File: VN086880.D

Acq: 06 Jun 2025 20:36

Instrument :

MSVOA_N

ClientSampleId :

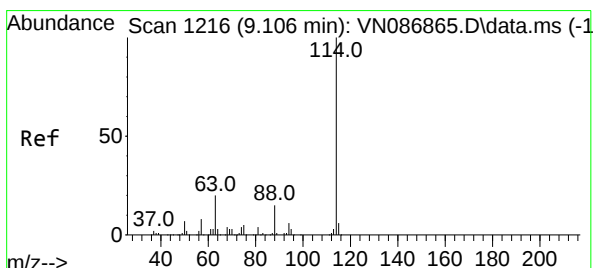
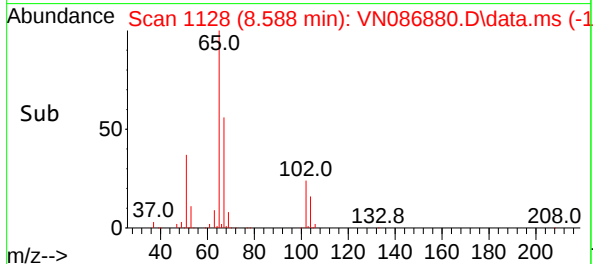
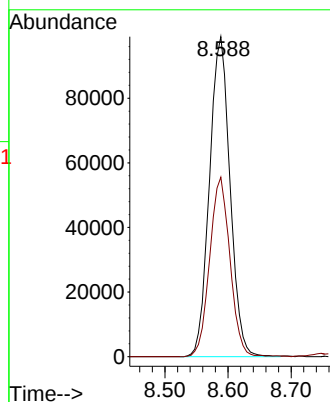
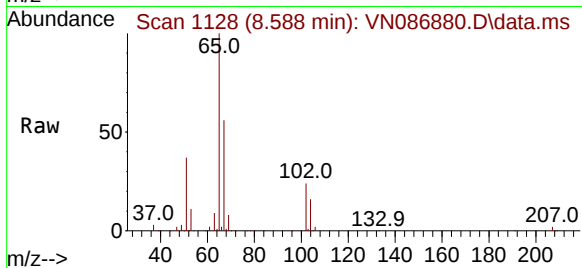
3851

Tgt Ion: 65 Resp: 224320

Ion Ratio Lower Upper

65 100

67 55.3 0.0 105.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. -0.000 min

Lab File: VN086880.D

Acq: 06 Jun 2025 20:36

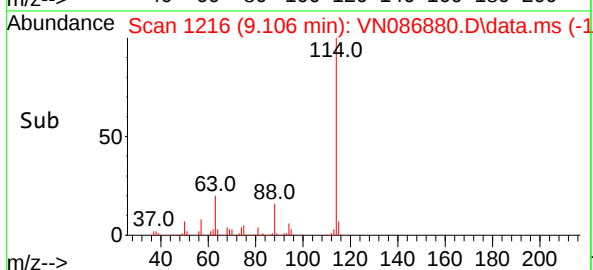
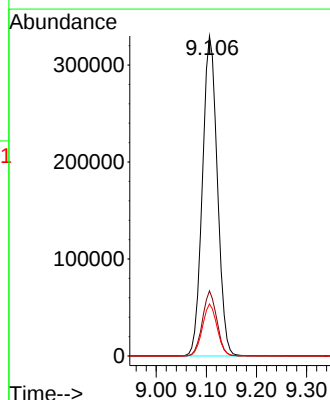
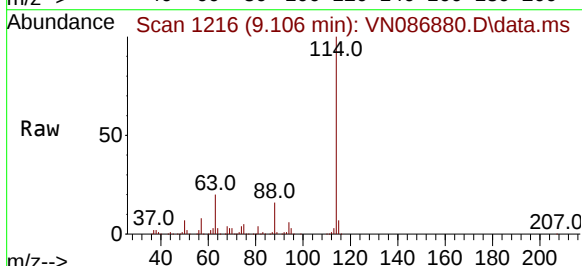
Tgt Ion: 114 Resp: 683310

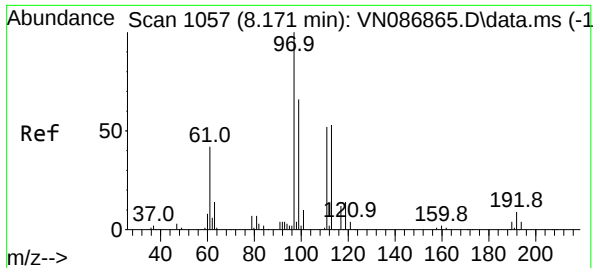
Ion Ratio Lower Upper

114 100

63 20.4 0.0 39.6

88 16.3 0.0 30.2

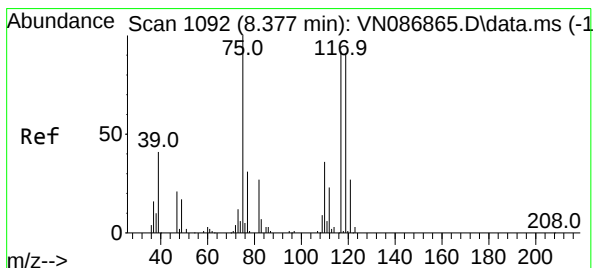
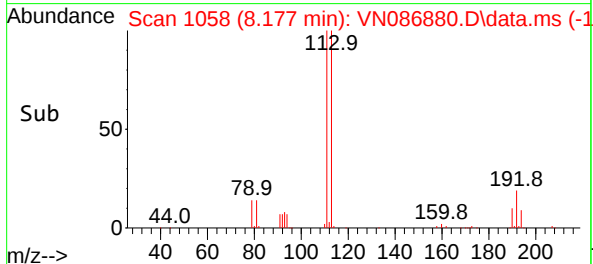
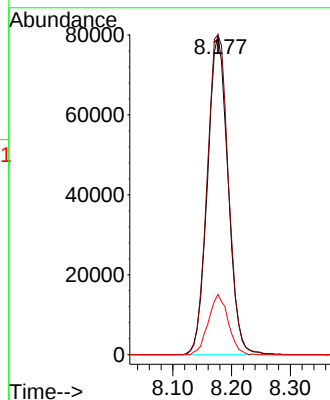
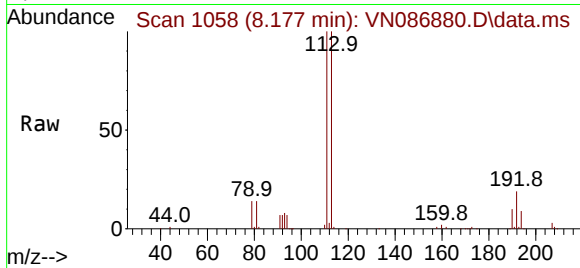




#35
Dibromofluoromethane
Concen: 47.795 ug/l
RT: 8.177 min Scan# 1057
Delta R.T. 0.006 min
Lab File: VN086880.D
Acq: 06 Jun 2025 20:36

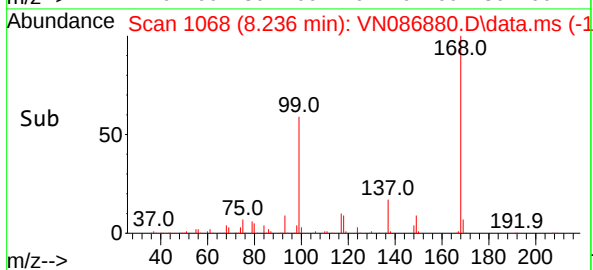
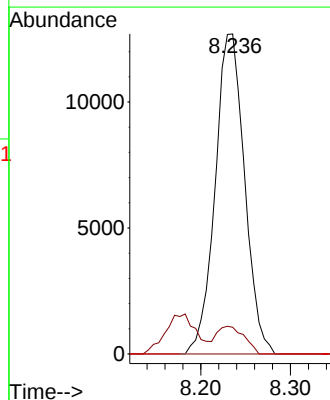
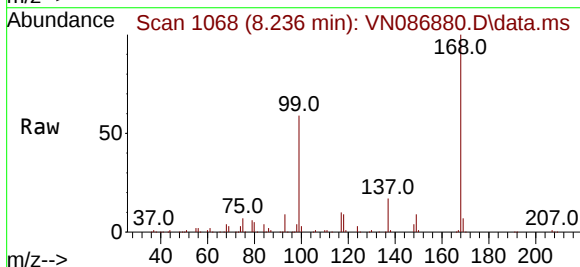
Instrument :
MSVOA_N
ClientSampleId :
3851

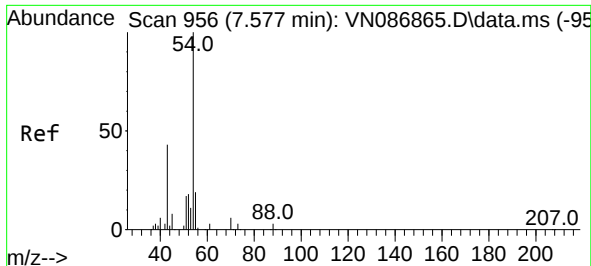
Tgt Ion:113 Resp: 193542
Ion Ratio Lower Upper
113 100
111 103.6 84.2 126.2
192 18.3 14.2 21.4



#36
1,1-Dichloropropene
Concen: 4.795 ug/l
RT: 8.236 min Scan# 1068
Delta R.T. -0.141 min
Lab File: VN086880.D
Acq: 06 Jun 2025 20:36

Tgt Ion: 75 Resp: 28936
Ion Ratio Lower Upper
75 100
110 7.9 17.6 52.9#
77 0.0 25.3 37.9#





#37

Ethyl Acetate

Concen: 1.432 ug/l

RT: 7.500 min Scan# 943

Delta R.T. -0.077 min

Lab File: VN086880.D

Acq: 06 Jun 2025 20:36

Instrument :

MSVOA_N

ClientSampleId :

3851

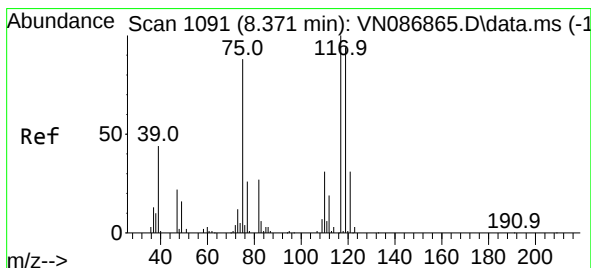
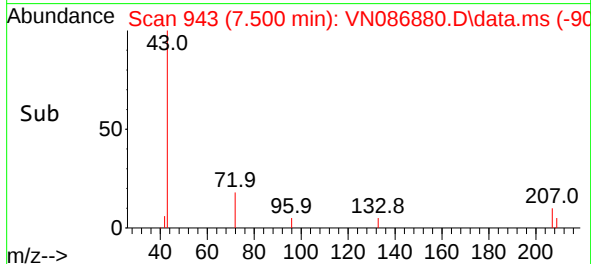
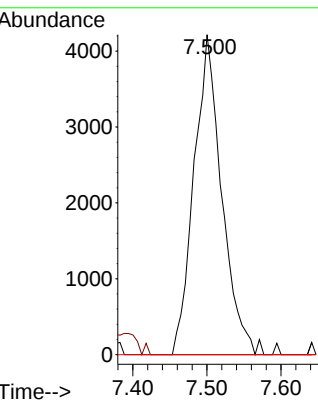
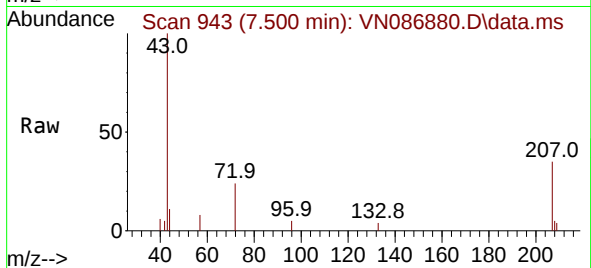
Tgt Ion: 43 Resp: 11003

Ion Ratio Lower Upper

43 100

61 0.0 12.1 18.1#

70 0.0 9.8 14.6#



#38

Carbon Tetrachloride

Concen: 6.523 ug/l

RT: 8.230 min Scan# 1067

Delta R.T. -0.141 min

Lab File: VN086880.D

Acq: 06 Jun 2025 20:36

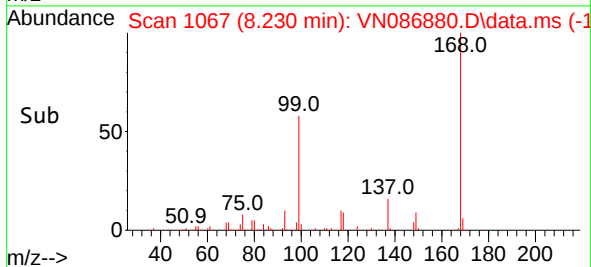
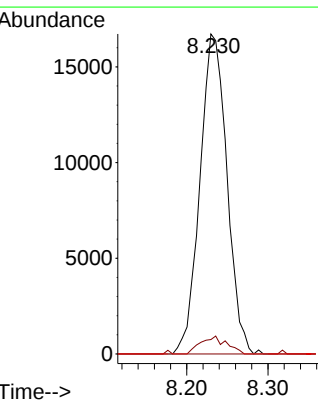
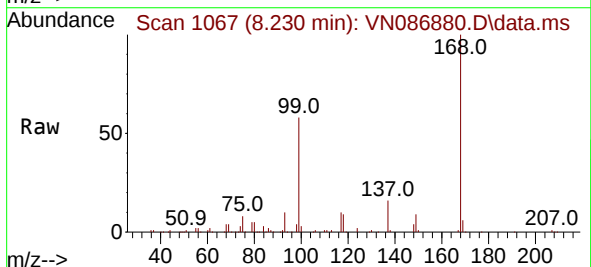
Tgt Ion: 117 Resp: 38640

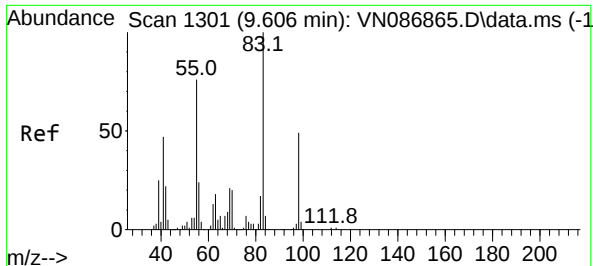
Ion Ratio Lower Upper

117 100

119 4.5 75.0 112.6#

121 0.0 24.9 37.3#





#39

Methylcyclohexane

Concen: 0.269 ug/l

RT: 9.606 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN086880.D

Acq: 06 Jun 2025 20:36

Instrument :

MSVOA_N

ClientSampleId :

3851

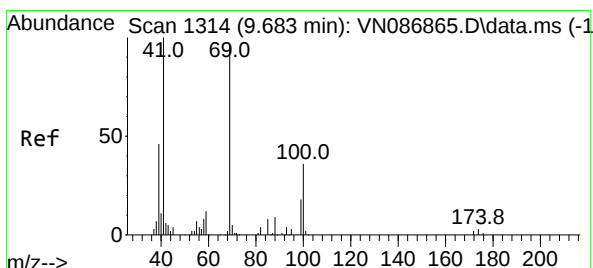
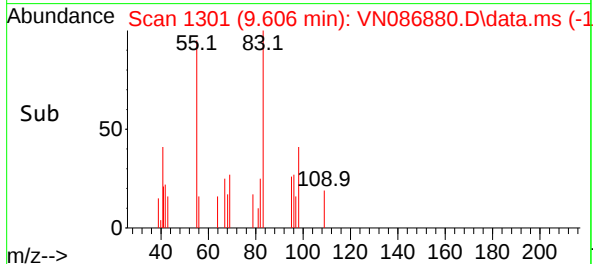
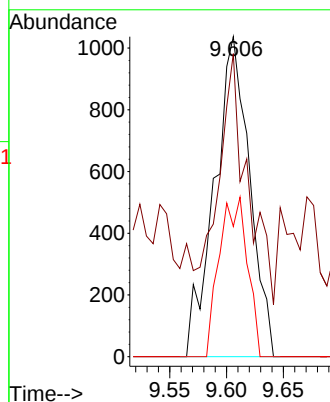
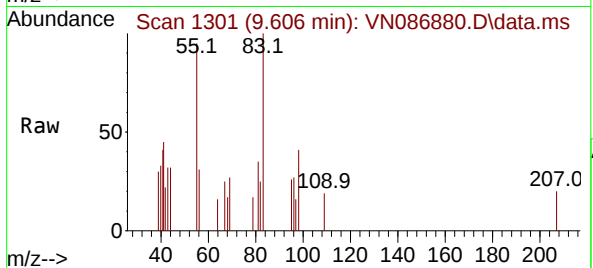
Tgt Ion: 83 Resp: 2227

Ion Ratio Lower Upper

83 100

55 67.1 61.0 91.6

98 40.7 38.9 58.3



#48

Methyl methacrylate

Concen: 19.676 ug/l

RT: 9.912 min Scan# 1353

Delta R.T. 0.229 min

Lab File: VN086880.D

Acq: 06 Jun 2025 20:36

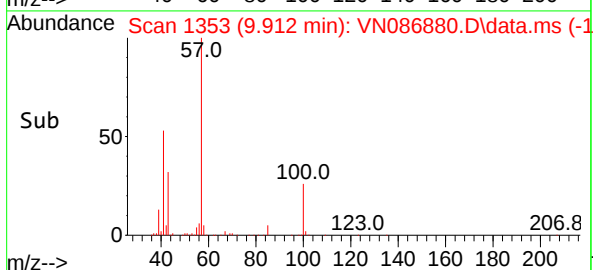
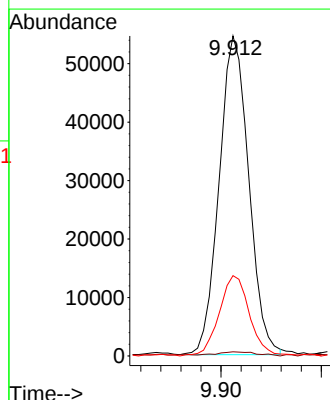
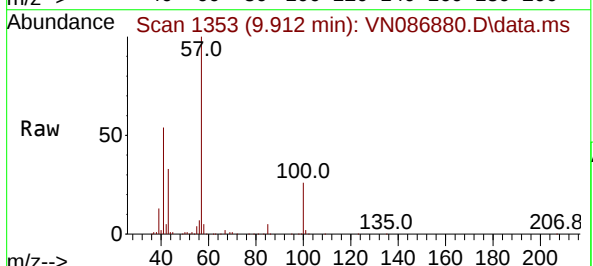
Tgt Ion: 41 Resp: 111652

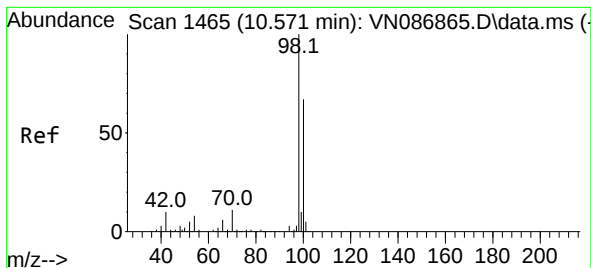
Ion Ratio Lower Upper

41 100

69 1.8 74.6 112.0#

39 25.6 40.2 60.4#

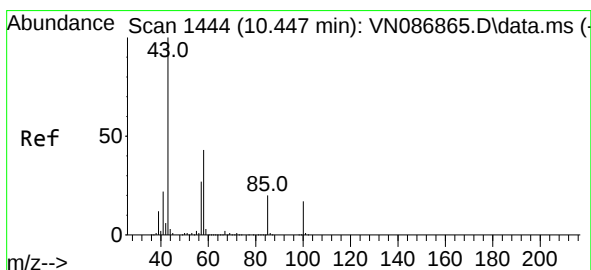
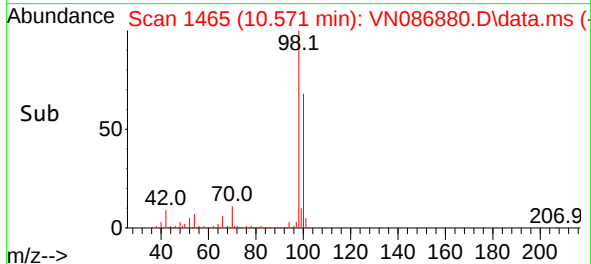
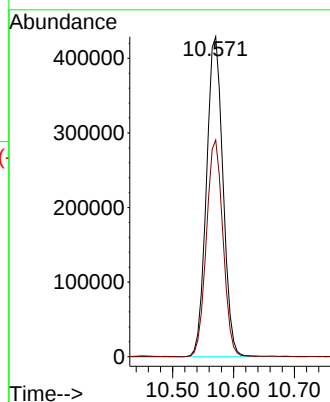
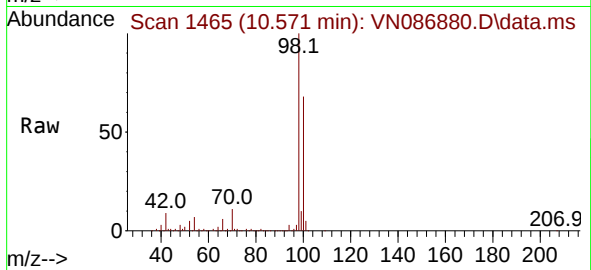




#50
Toluene-d8
Concen: 50.348 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VN086880.D
Acq: 06 Jun 2025 20:36

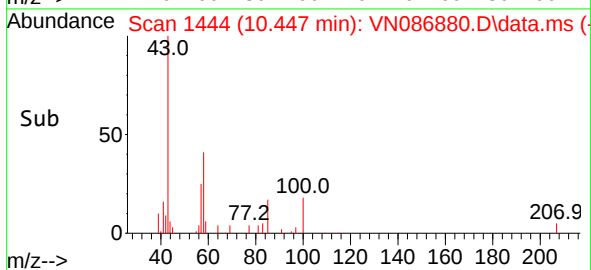
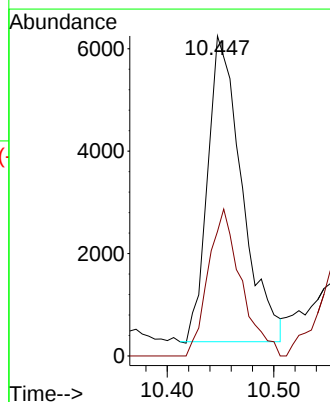
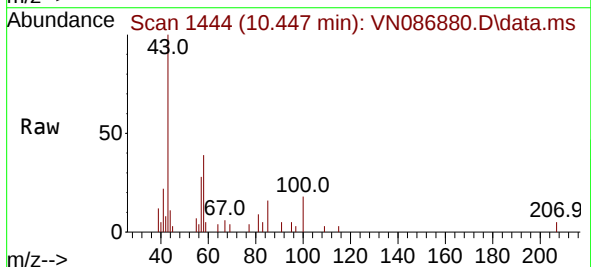
Instrument :
MSVOA_N
ClientSampleId :
3851

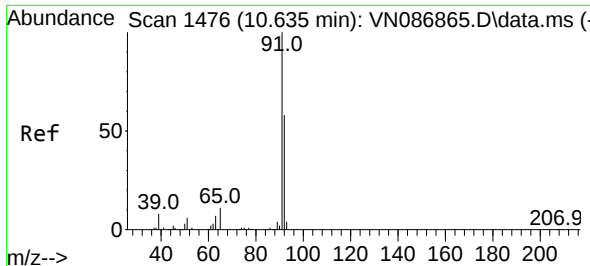
Tgt Ion: 98 Resp: 807110
Ion Ratio Lower Upper
98 100
100 67.8 53.4 80.0



#51
4-Methyl-2-Pentanone
Concen: 1.797 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. -0.000 min
Lab File: VN086880.D
Acq: 06 Jun 2025 20:36

Tgt Ion: 43 Resp: 13335
Ion Ratio Lower Upper
43 100
58 46.3 34.2 51.4

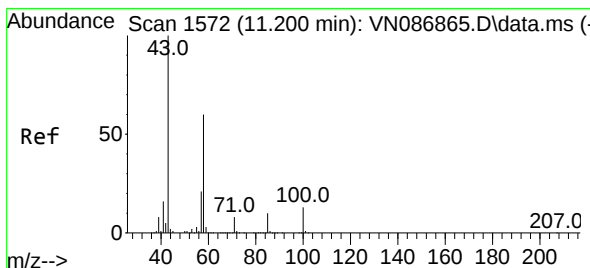
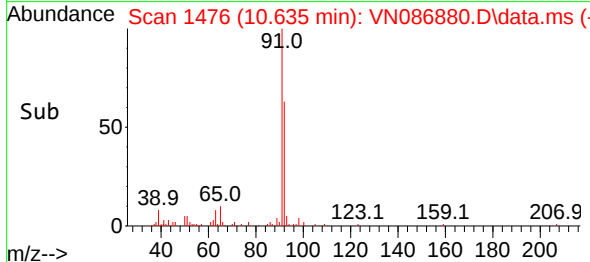
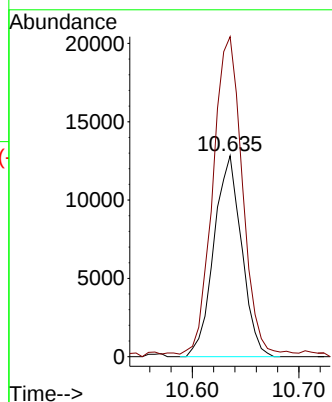
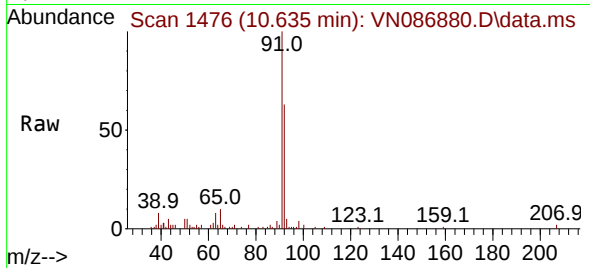




#52
Toluene
Concen: 1.922 ug/l
RT: 10.635 min Scan# 1476
Delta R.T. -0.000 min
Lab File: VN086880.D
Acq: 06 Jun 2025 20:36

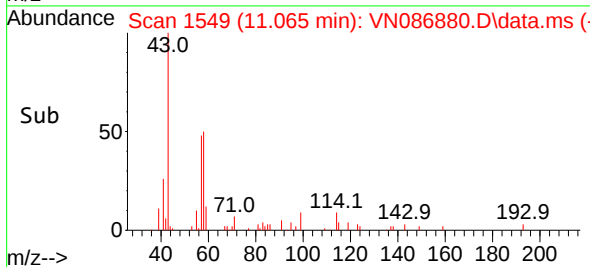
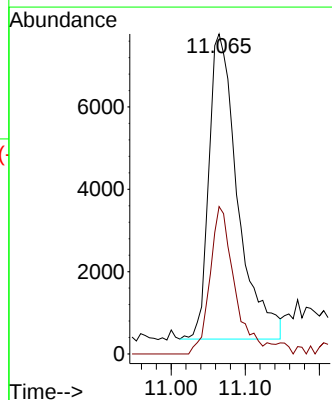
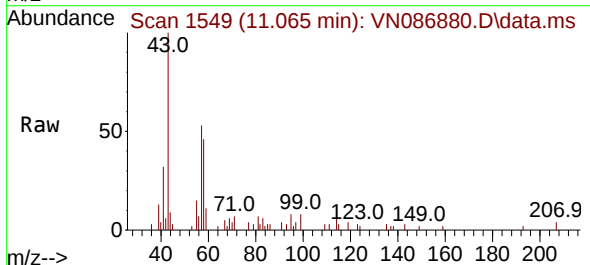
Instrument :
MSVOA_N
ClientSampleId :
3851

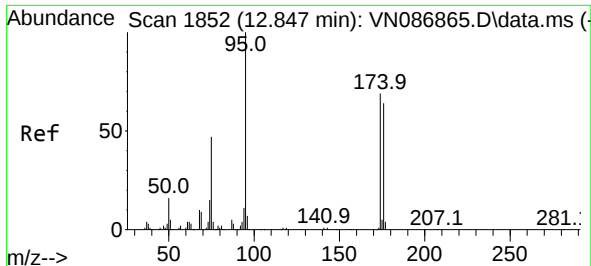
Tgt Ion: 92 Resp: 23173
Ion Ratio Lower Upper
92 100
91 167.0 136.5 204.7



#59
2-Hexanone
Concen: 4.195 ug/l
RT: 11.065 min Scan# 1549
Delta R.T. -0.135 min
Lab File: VN086880.D
Acq: 06 Jun 2025 20:36

Tgt Ion: 43 Resp: 20055
Ion Ratio Lower Upper
43 100
58 40.4 30.4 91.3

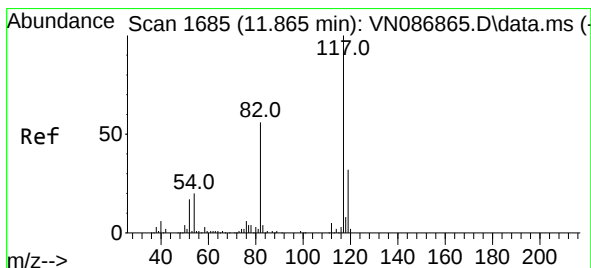
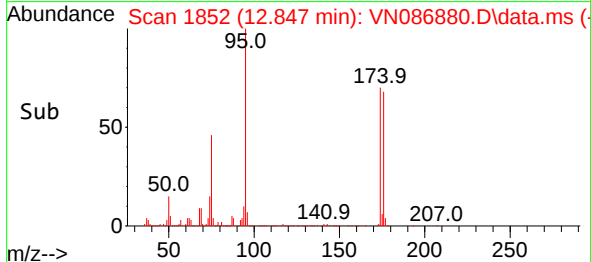
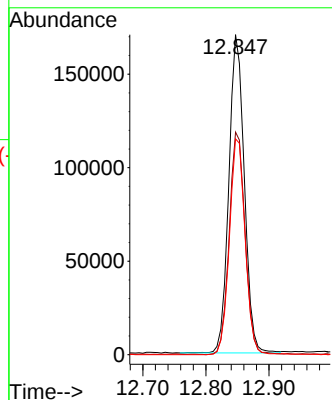
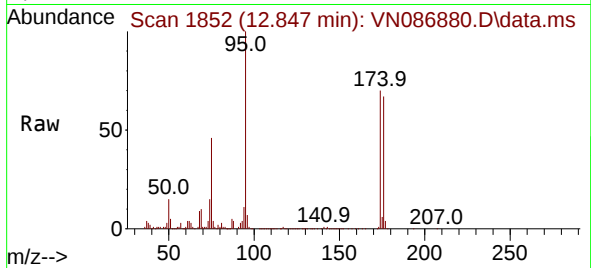




#62
4-Bromofluorobenzene
Concen: 48.423 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086880.D
Acq: 06 Jun 2025 20:36

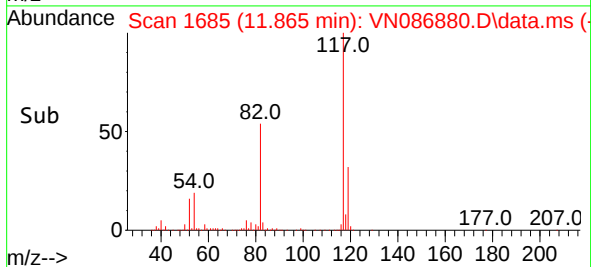
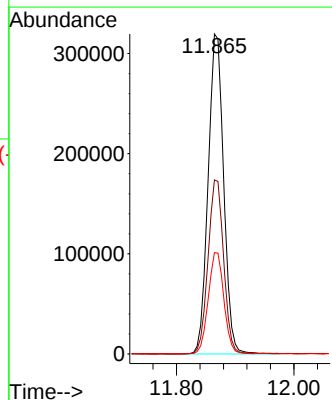
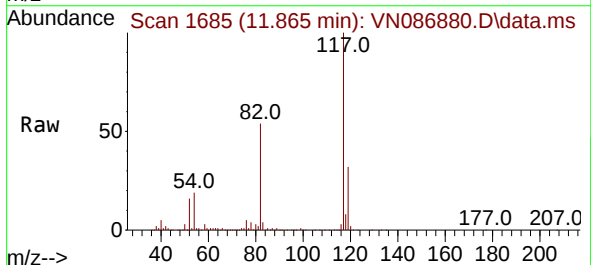
Instrument :
MSVOA_N
ClientSampleId :
3851

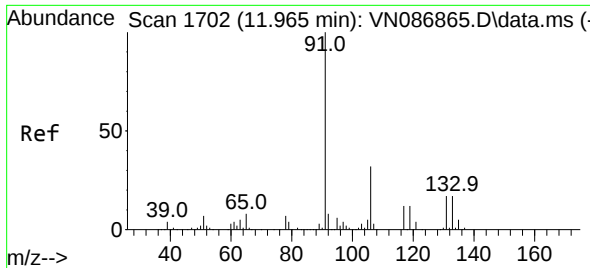
Tgt Ion: 95 Resp: 288404
Ion Ratio Lower Upper
95 100
174 72.2 0.0 141.8
176 69.5 0.0 132.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN086880.D
Acq: 06 Jun 2025 20:36

Tgt Ion: 117 Resp: 586008
Ion Ratio Lower Upper
117 100
82 54.3 44.6 67.0
119 31.6 25.5 38.3

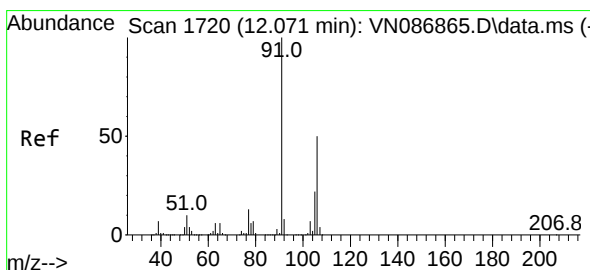
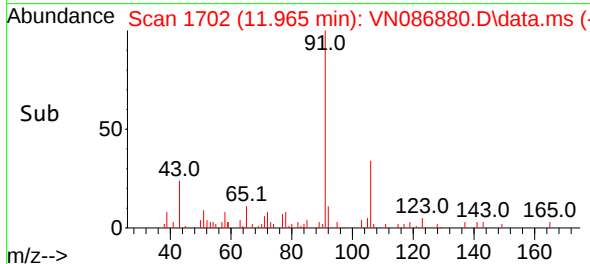
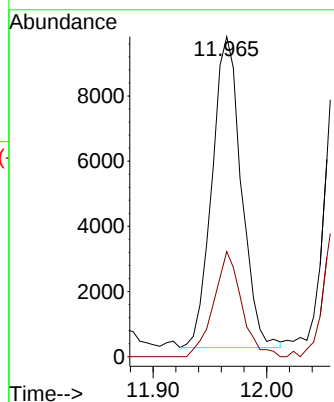
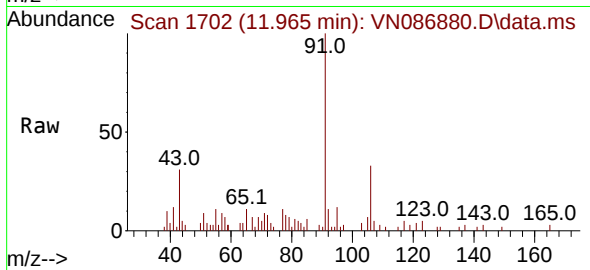




#67
Ethyl Benzene
Concen: 0.770 ug/l
RT: 11.965 min Scan# 1702
Delta R.T. -0.000 min
Lab File: VN086880.D
Acq: 06 Jun 2025 20:36

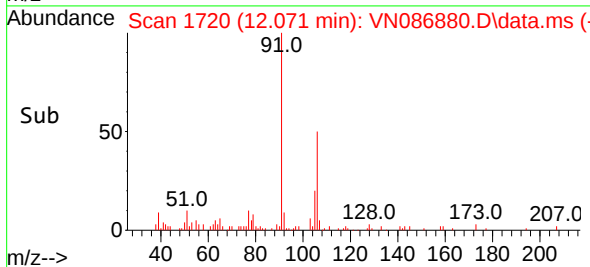
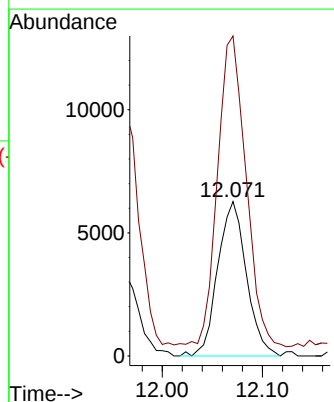
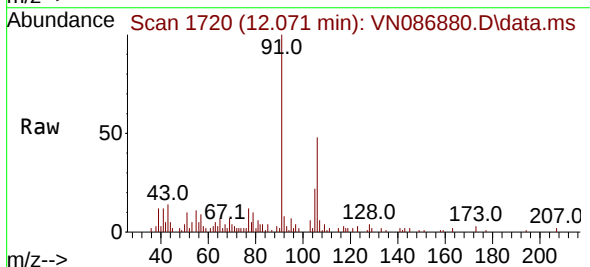
Instrument :
MSVOA_N
ClientSampleId :
3851

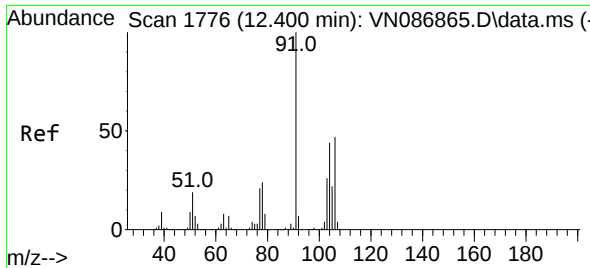
Tgt Ion: 91 Resp: 17136
Ion Ratio Lower Upper
91 100
106 33.8 25.4 38.2



#68
m/p-Xylenes
Concen: 1.460 ug/l
RT: 12.071 min Scan# 1720
Delta R.T. -0.000 min
Lab File: VN086880.D
Acq: 06 Jun 2025 20:36

Tgt Ion:106 Resp: 12444
Ion Ratio Lower Upper
106 100
91 199.6 159.4 239.0

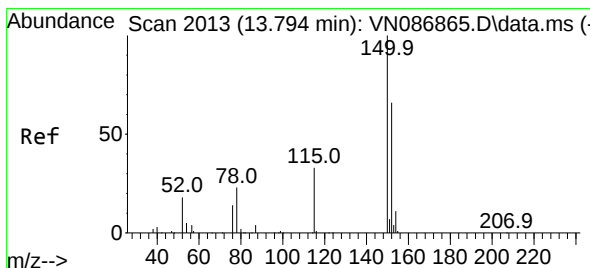
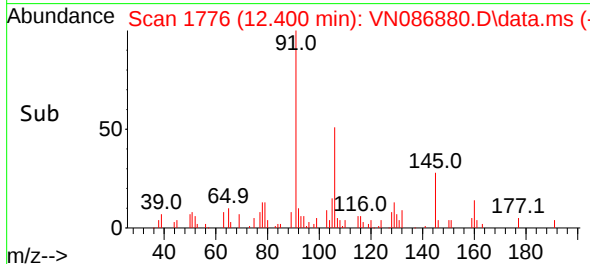
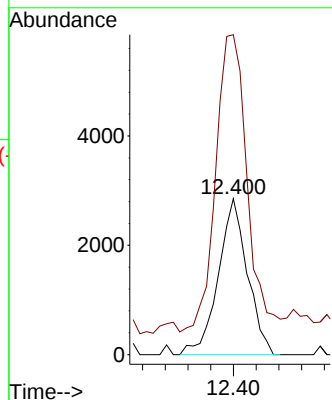
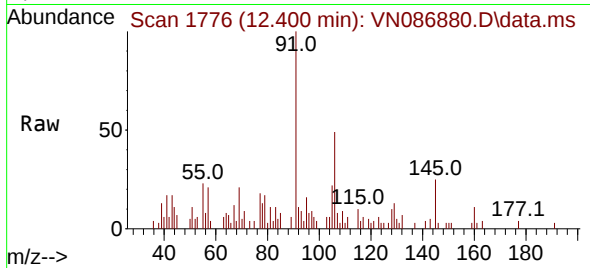




#69
o-Xylene
Concen: 0.622 ug/l
RT: 12.400 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN086880.D
Acq: 06 Jun 2025 20:36

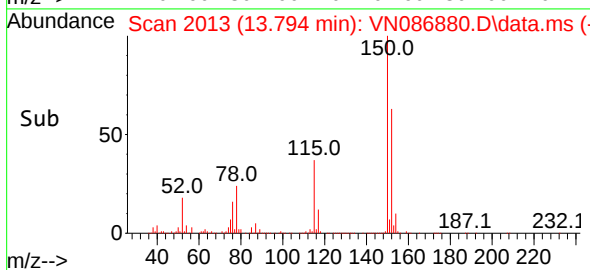
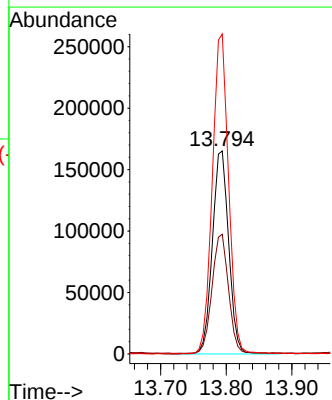
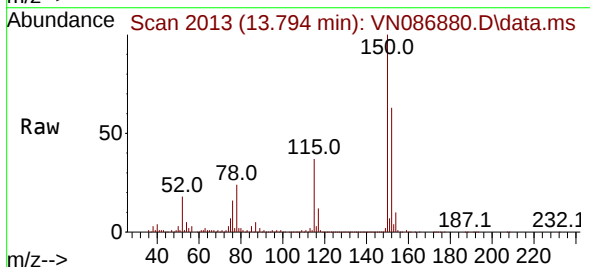
Instrument :
MSVOA_N
ClientSampleId :
3851

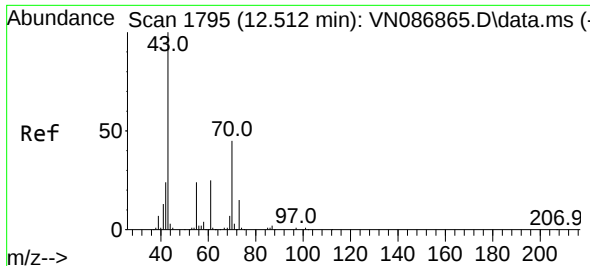
Tgt Ion:106 Resp: 5077
Ion Ratio Lower Upper
106 100
91 204.5 106.1 318.1



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. -0.000 min
Lab File: VN086880.D
Acq: 06 Jun 2025 20:36

Tgt Ion:152 Resp: 285893
Ion Ratio Lower Upper
152 100
115 59.0 30.1 90.5
150 156.3 0.0 345.0



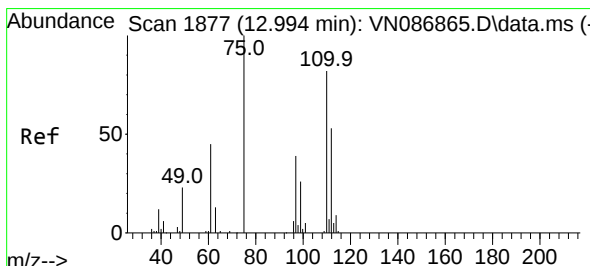
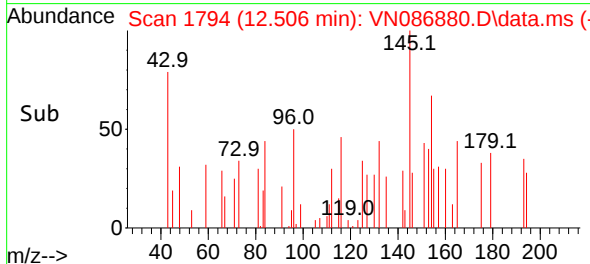
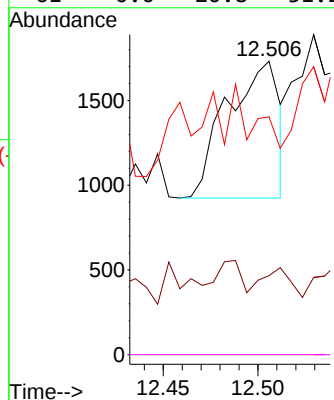
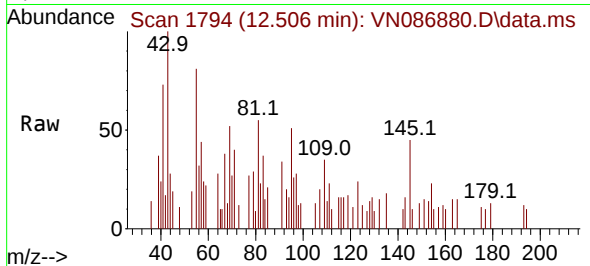


#74
N-amy1 acetate
Concen: 0.212 ug/l
RT: 12.506 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN086880.D
Acq: 06 Jun 2025 20:36

Instrument :
MSVOA_N
ClientSampleId :
3851

Tgt Ion: 43 Resp: 1546

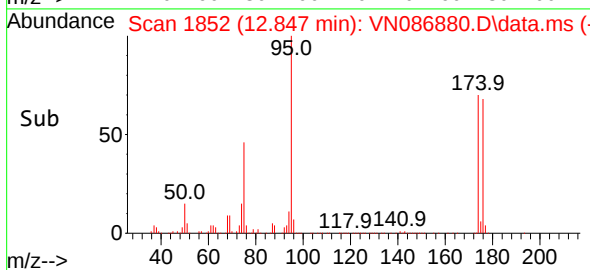
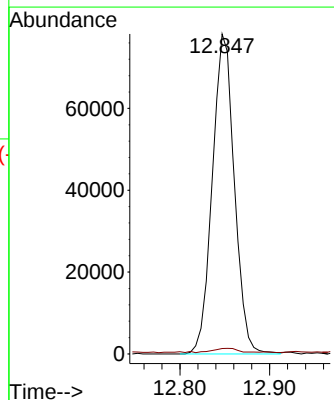
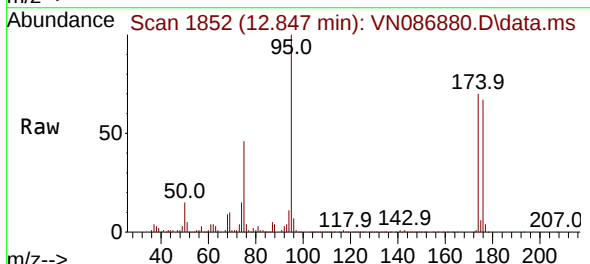
Ion	Ratio	Lower	Upper
43	100		
70	9.0	37.6	56.4#
55	0.0	19.0	28.6#
61	0.0	20.8	31.2#

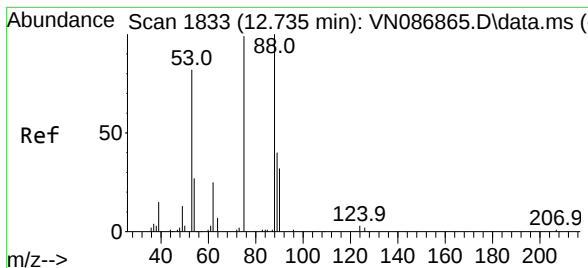


#76
1,2,3-Trichloropropane
Concen: 19.617 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN086880.D
Acq: 06 Jun 2025 20:36

Tgt Ion: 75 Resp: 133313

Ion	Ratio	Lower	Upper
75	100		
77	1.6	79.3	237.9#

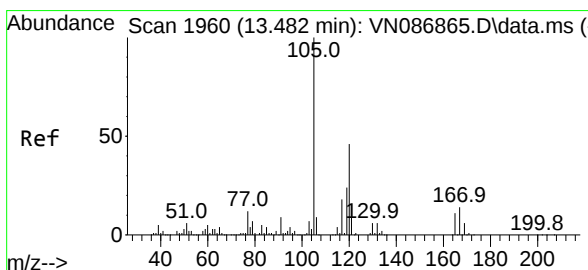
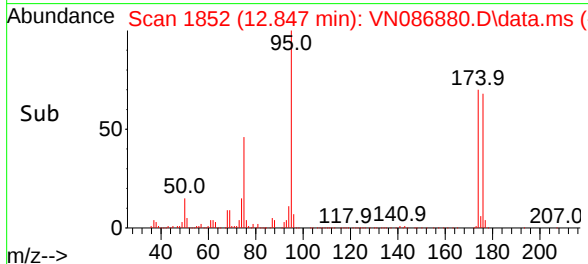
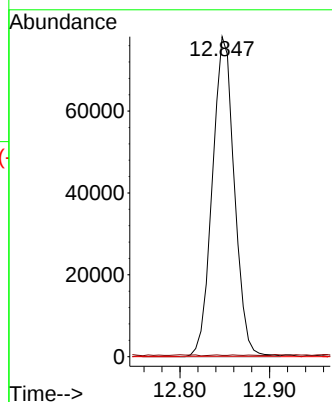
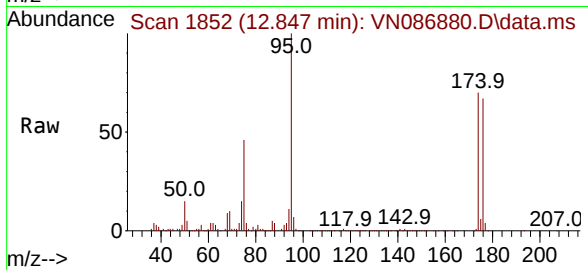




#81
trans-1,4-Dichloro-2-butene
Concen: 45.157 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN086880.D
Acq: 06 Jun 2025 20:36

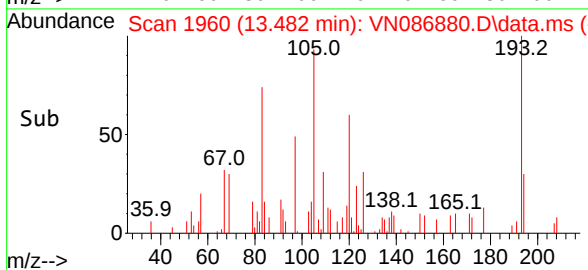
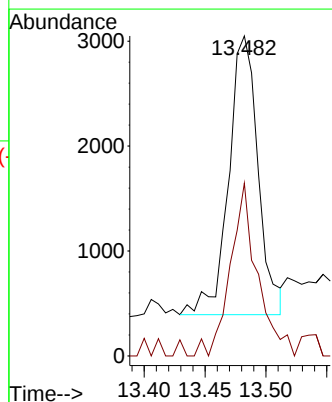
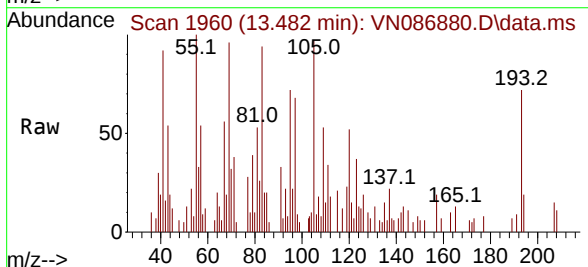
Instrument :
MSVOA_N
ClientSampleId :
3851

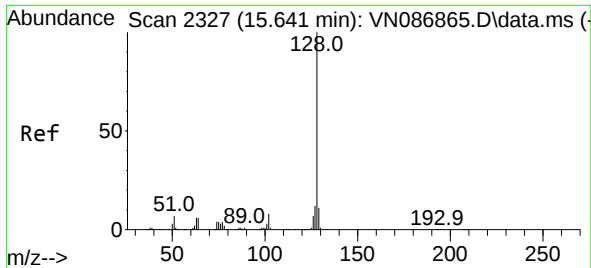
Tgt Ion: 75 Resp: 133313
Ion Ratio Lower Upper
75 100
53 0.2 66.6 99.8#
89 0.0 36.7 55.1#



#84
1,2,4-Trimethylbenzene
Concen: 0.260 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. -0.000 min
Lab File: VN086880.D
Acq: 06 Jun 2025 20:36

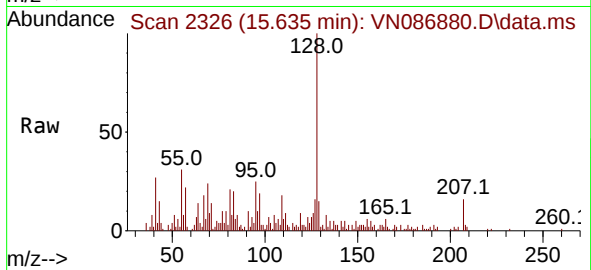
Tgt Ion:105 Resp: 4482
Ion Ratio Lower Upper
105 100
120 56.8 23.2 69.6





#95
Naphthalene
Concen: 1.832 ug/l
RT: 15.635 min Scan# 21
Delta R.T. -0.006 min
Lab File: VN086880.D
Acq: 06 Jun 2025 20:36

Instrument :
MSVOA_N
ClientSampleId :
3851



Tgt Ion:128 Resp: 39317
Ion Ratio Lower Upper
128 100
127 17.3 10.2 15.2#
129 15.3 8.8 13.2#

