

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN062625\
 Data File : VN087188.D
 Acq On : 26 Jun 2025 12:44
 Operator : JC\MD
 Sample : Q2388-04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-12

Quant Time: Jun 27 01:24:15 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)

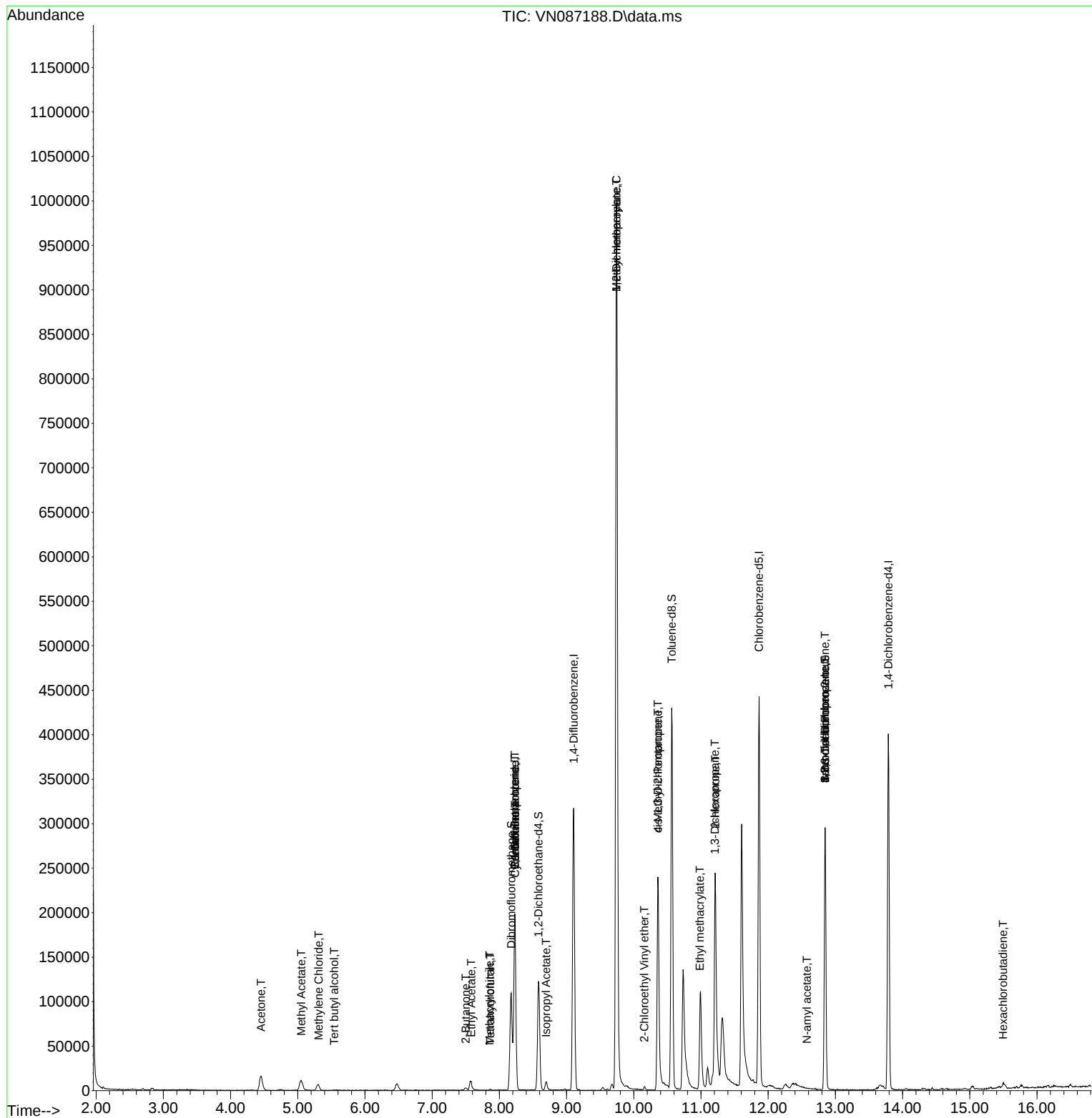
Internal Standards						
1) Pentafluorobenzene	8.230	168	145145	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	283245	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	255868	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	113541	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	103497	53.258	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 106.520%	
35) Dibromofluoromethane	8.177	113	83635	49.825	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 99.640%	
50) Toluene-d8	10.565	98	306992	46.199	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 92.400%	
62) 4-Bromofluorobenzene	12.847	95	112916	45.737	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 91.480%	
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	5.541	59	415	0.787	ug/l #	73
16) Acetone	4.453	43	33557	32.562	ug/l	96
18) Methyl Acetate	5.053	43	26052	8.675	ug/l	98
20) Methylene Chloride	5.312	84	5381	2.789	ug/l	97
25) 2-Butanone	7.500	43	4814	2.874	ug/l	97
29) Tetrahydrofuran	7.865	42	816	0.748	ug/l #	44
31) Cyclohexane	8.235	56	3026	0.960	ug/l #	1
36) 1,1-Dichloropropene	8.230	75	12471	4.986	ug/l #	47
37) Ethyl Acetate	7.582	43	15909	4.996	ug/l	97
38) Carbon Tetrachloride	8.230	117	15080	6.141	ug/l #	17
41) Methacrylonitrile	7.853	41	448	0.251	ug/l #	28
43) Isopropyl Acetate	8.694	43	10889	2.131	ug/l #	89
45) 1,2-Dichloropropane	9.741	63	1365	0.686	ug/l #	43
48) Methyl methacrylate	9.741	41	91572	38.931	ug/l #	37
51) 4-Methyl-2-Pentanone	10.359	43	101190	32.891	ug/l #	44
54) cis-1,3-Dichloropropene	10.359	75	53080	16.314	ug/l #	58
56) Ethyl methacrylate	10.982	69	835	0.273	ug/l #	1
57) 1,3-Dichloropropane	11.206	76	3443	1.032	ug/l #	43
58) 2-Chloroethyl Vinyl ether	10.159	63	1602	0.877	ug/l #	77
59) 2-Hexanone	11.212	43	38991	19.675	ug/l #	53
71) Bromoform	12.847	173	593	0.441	ug/l #	1
74) N-amyl acetate	12.576	43	854	0.295	ug/l #	40
76) 1,2,3-Trichloropropane	12.847	75	55544	20.580	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	55544	47.375	ug/l #	16
94) Hexachlorobutadiene	15.494	225	275	0.322	ug/l	79

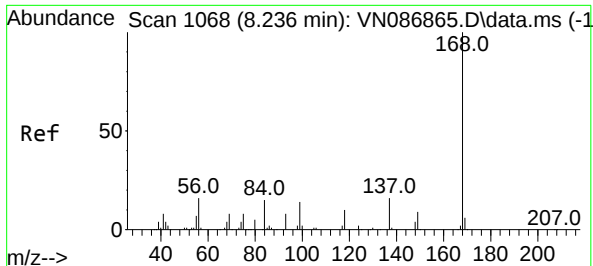
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN062625\
Data File : VN087188.D
Acq On : 26 Jun 2025 12:44
Operator : JC\MD
Sample : Q2388-04
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TP-12

Quant Time: Jun 27 01:24:15 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

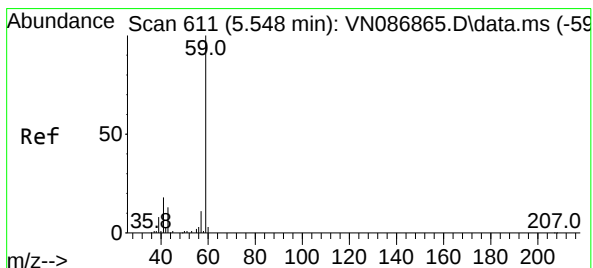
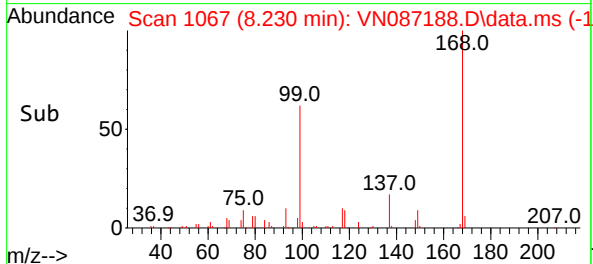
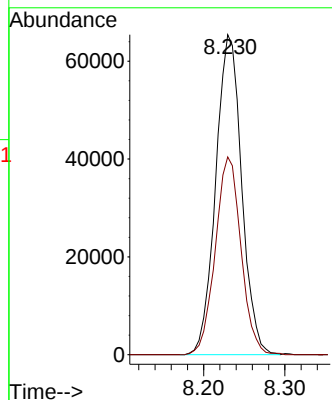
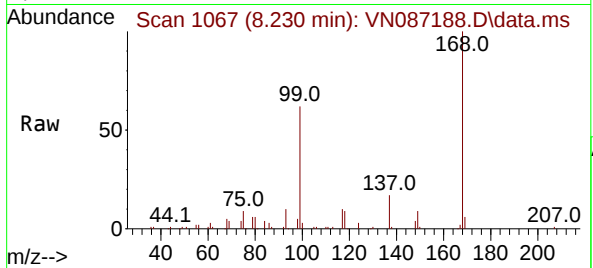




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1068
Delta R.T. -0.006 min
Lab File: VN087188.D
Acq: 26 Jun 2025 12:44

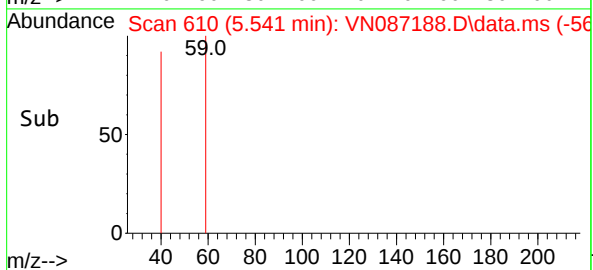
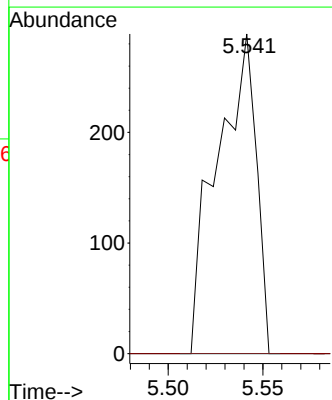
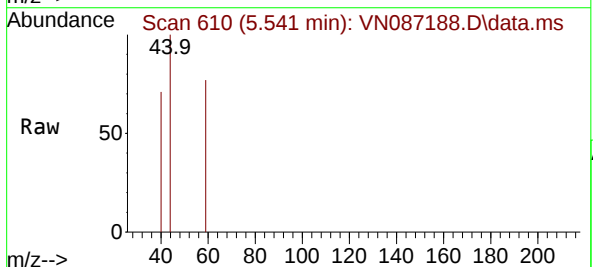
Instrument :
MSVOA_N
ClientSampleId :
TP-12

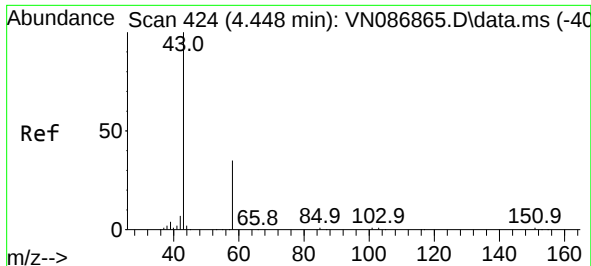
Tgt Ion:168 Resp: 145145
Ion Ratio Lower Upper
168 100
99 61.8 49.1 73.7



#11
Tert butyl alcohol
Concen: 0.787 ug/l
RT: 5.541 min Scan# 610
Delta R.T. -0.006 min
Lab File: VN087188.D
Acq: 26 Jun 2025 12:44

Tgt Ion: 59 Resp: 415
Ion Ratio Lower Upper
59 100
57 0.0 8.1 12.1#





#16

Acetone

Concen: 32.562 ug/l

RT: 4.453 min Scan# 41

Delta R.T. 0.006 min

Lab File: VN087188.D

Acq: 26 Jun 2025 12:44

Instrument :

MSVOA_N

ClientSampleId :

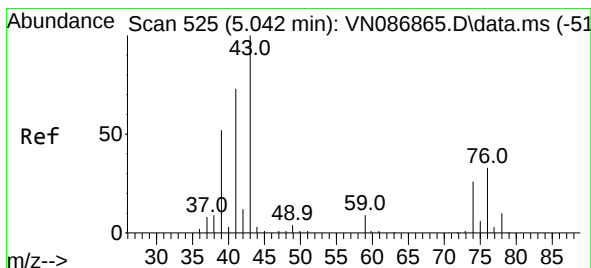
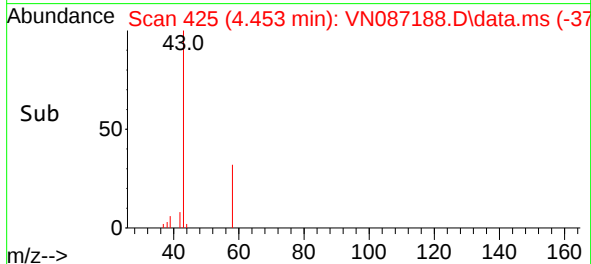
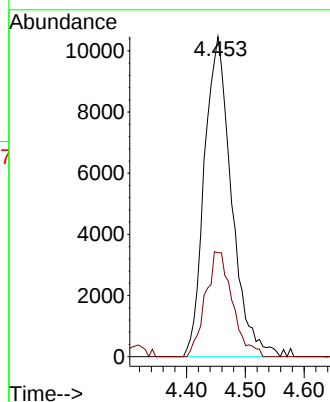
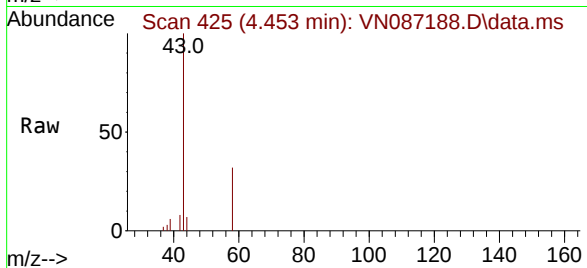
TP-12

Tgt Ion: 43 Resp: 33557

Ion Ratio Lower Upper

43 100

58 32.5 28.0 42.0



#18

Methyl Acetate

Concen: 8.675 ug/l

RT: 5.053 min Scan# 527

Delta R.T. 0.012 min

Lab File: VN087188.D

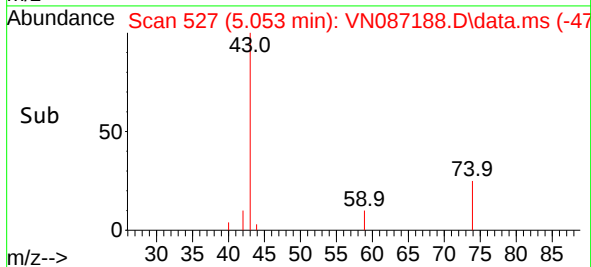
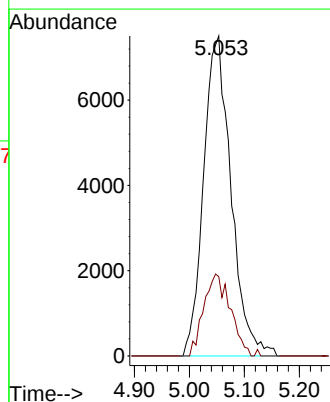
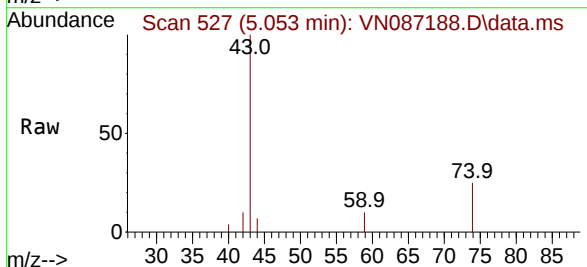
Acq: 26 Jun 2025 12:44

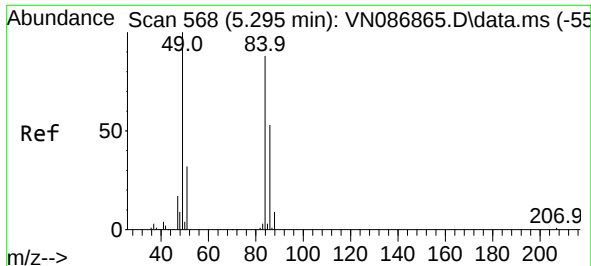
Tgt Ion: 43 Resp: 26052

Ion Ratio Lower Upper

43 100

74 24.8 20.7 31.1





#20

Methylene Chloride

Concen: 2.789 ug/l

RT: 5.312 min Scan# 51

Delta R.T. 0.017 min

Lab File: VN087188.D

Acq: 26 Jun 2025 12:44

Instrument :

MSVOA_N

ClientSampleId :

TP-12

Tgt Ion: 84 Resp: 5381

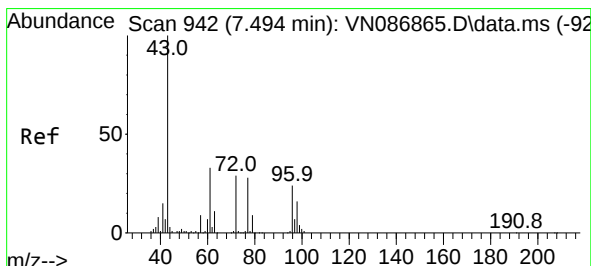
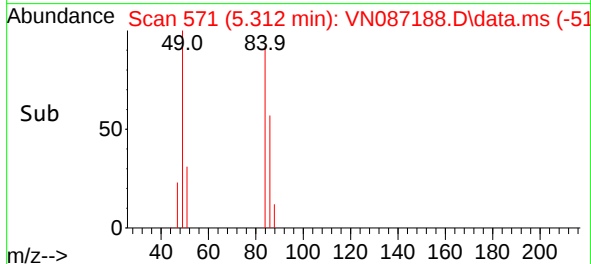
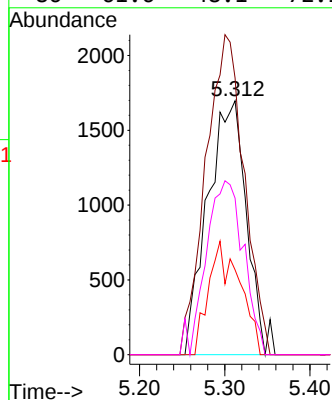
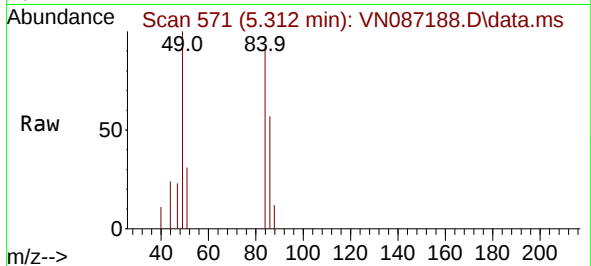
Ion Ratio Lower Upper

84 100

49 109.0 90.5 135.7

51 33.4 28.5 42.7

86 61.6 48.1 72.1



#25

2-Butanone

Concen: 2.874 ug/l

RT: 7.500 min Scan# 943

Delta R.T. 0.006 min

Lab File: VN087188.D

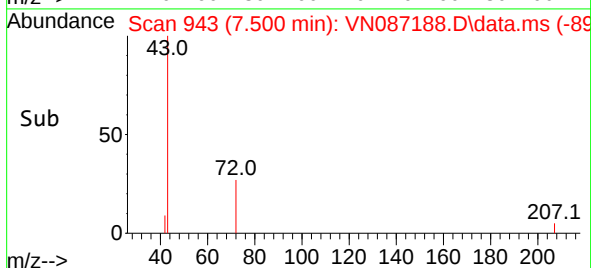
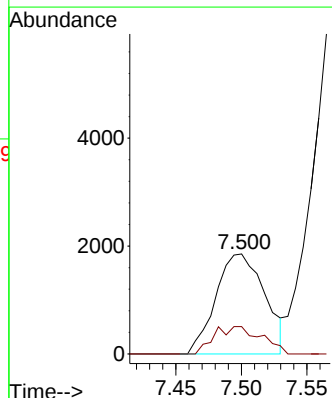
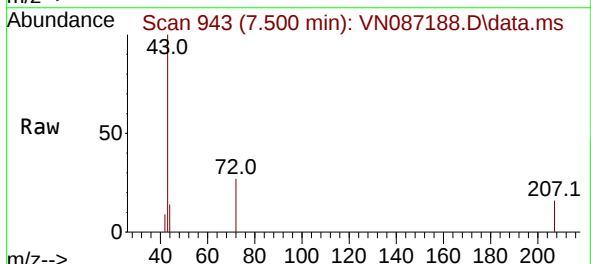
Acq: 26 Jun 2025 12:44

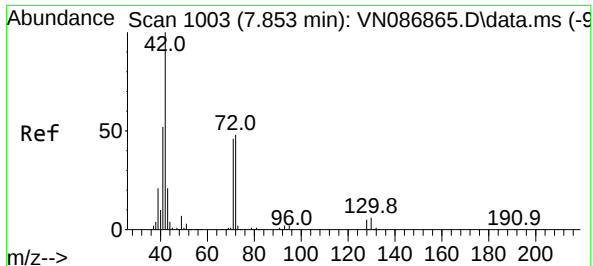
Tgt Ion: 43 Resp: 4814

Ion Ratio Lower Upper

43 100

72 27.4 23.0 34.6





#29

Tetrahydrofuran

Concen: 0.748 ug/l

RT: 7.865 min Scan# 1005

Delta R.T. 0.012 min

Lab File: VN087188.D

Acq: 26 Jun 2025 12:44

Instrument :

MSVOA_N

ClientSampleId :

TP-12

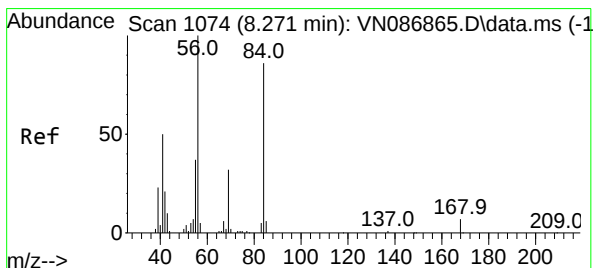
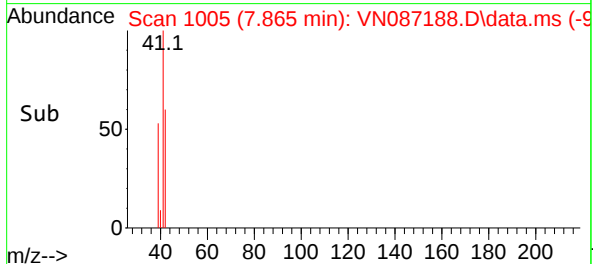
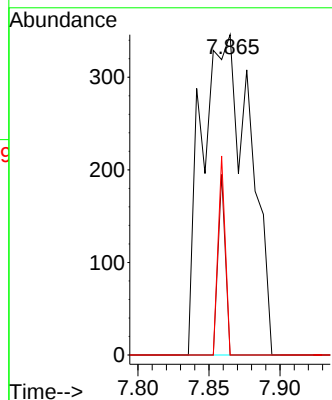
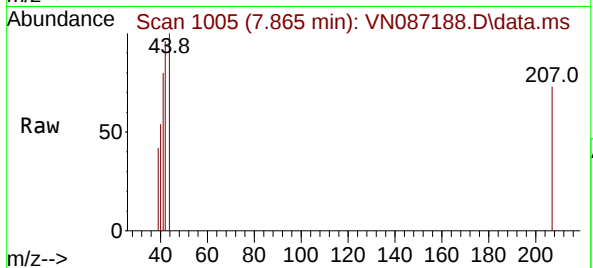
Tgt Ion: 42 Resp: 816

Ion Ratio Lower Upper

42 100

72 8.5 37.8 56.6#

71 9.3 35.6 53.4#



#31

Cyclohexane

Concen: 0.960 ug/l

RT: 8.235 min Scan# 1068

Delta R.T. -0.036 min

Lab File: VN087188.D

Acq: 26 Jun 2025 12:44

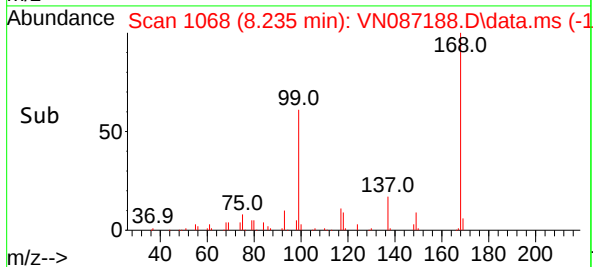
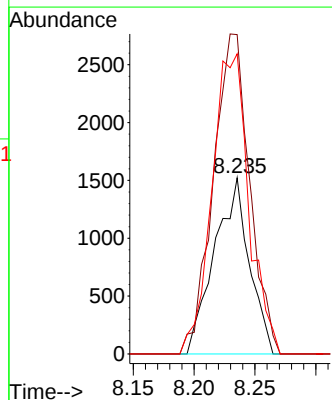
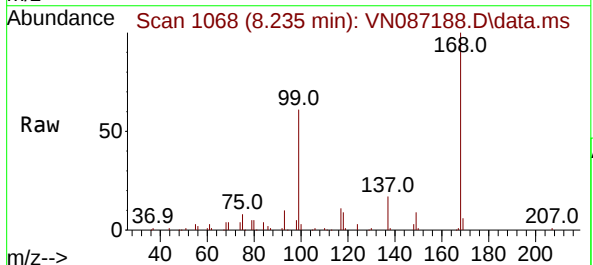
Tgt Ion: 56 Resp: 3026

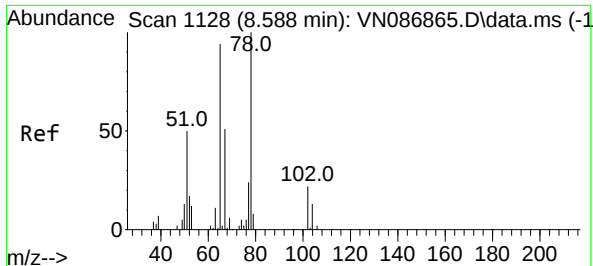
Ion Ratio Lower Upper

56 100

69 181.3 25.4 38.0#

84 170.3 68.8 103.2#





#33

1,2-Dichloroethane-d4

Concen: 53.258 ug/l

RT: 8.582 min Scan# 1128

Delta R.T. -0.006 min

Lab File: VN087188.D

Acq: 26 Jun 2025 12:44

Instrument :

MSVOA_N

ClientSampleId :

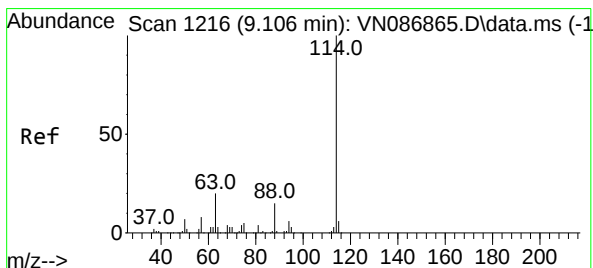
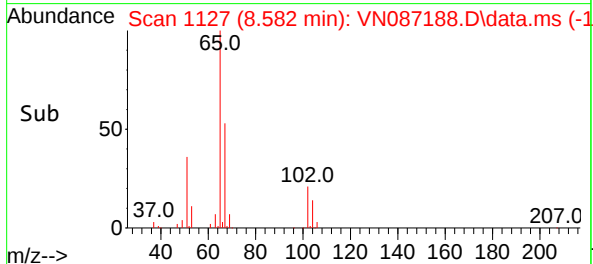
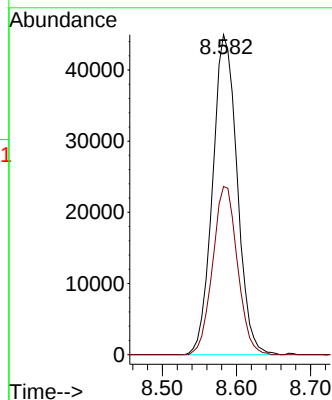
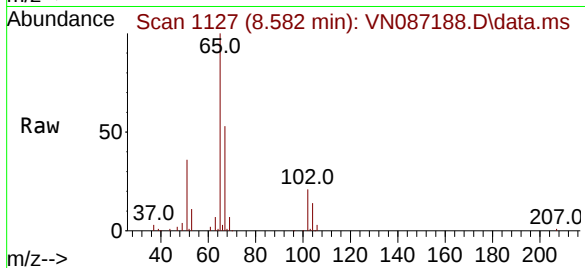
TP-12

Tgt Ion: 65 Resp: 103497

Ion Ratio Lower Upper

65 100

67 53.0 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: VN087188.D

Acq: 26 Jun 2025 12:44

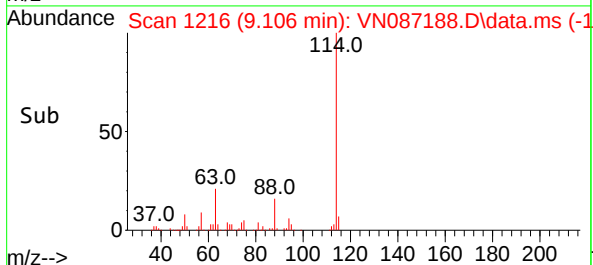
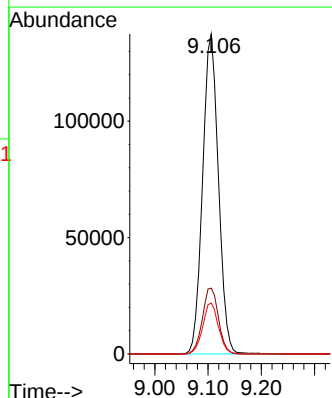
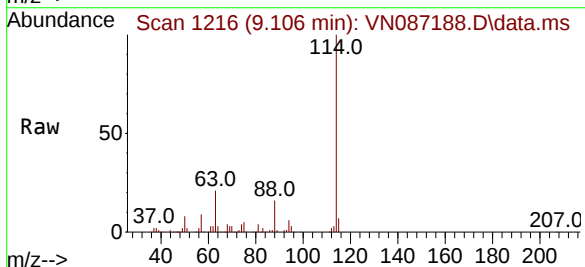
Tgt Ion: 114 Resp: 283245

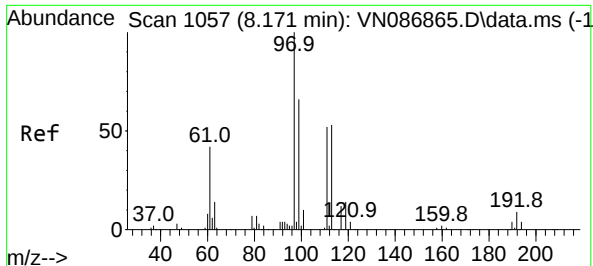
Ion Ratio Lower Upper

114 100

63 20.6 0.0 39.6

88 15.9 0.0 30.2





#35

Dibromofluoromethane

Concen: 49.825 ug/l

RT: 8.177 min Scan# 1057

Delta R.T. 0.006 min

Lab File: VN087188.D

Acq: 26 Jun 2025 12:44

Instrument :

MSVOA_N

ClientSampleId :

TP-12

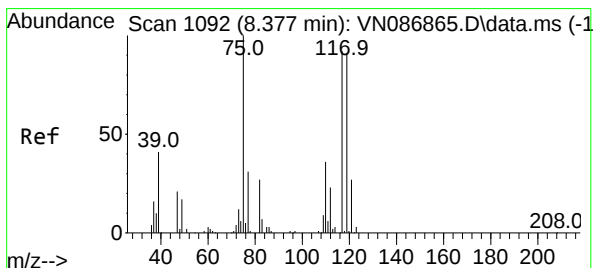
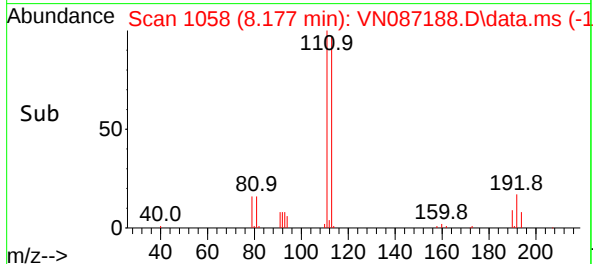
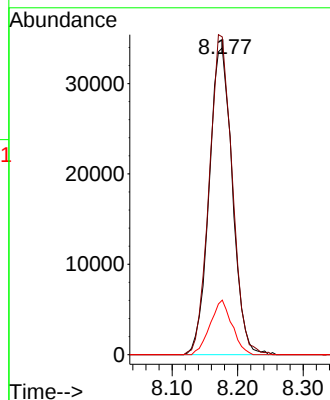
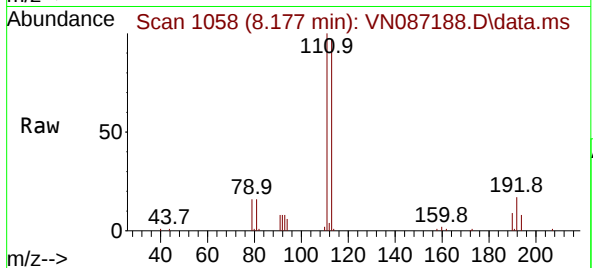
Tgt Ion:113 Resp: 83635

Ion Ratio Lower Upper

113 100

111 102.7 84.2 126.2

192 16.7 14.2 21.4



#36

1,1-Dichloropropene

Concen: 4.986 ug/l

RT: 8.230 min Scan# 1067

Delta R.T. -0.147 min

Lab File: VN087188.D

Acq: 26 Jun 2025 12:44

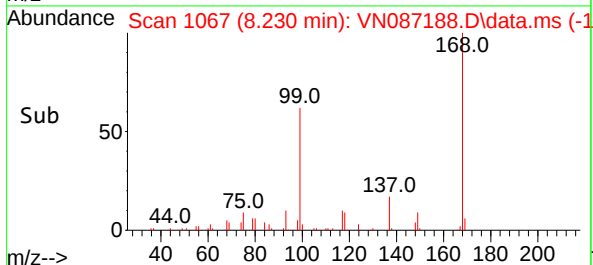
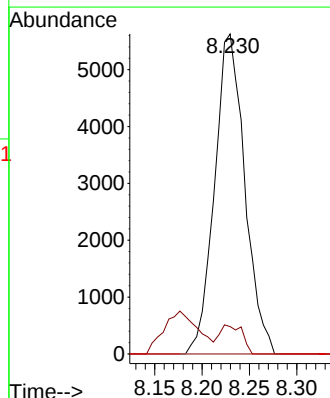
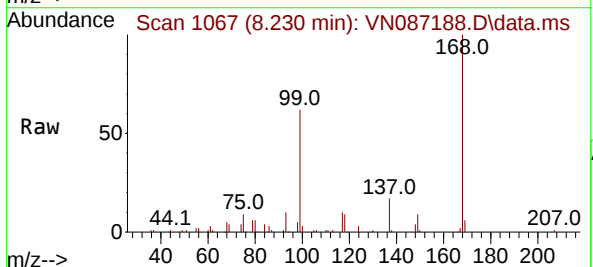
Tgt Ion: 75 Resp: 12471

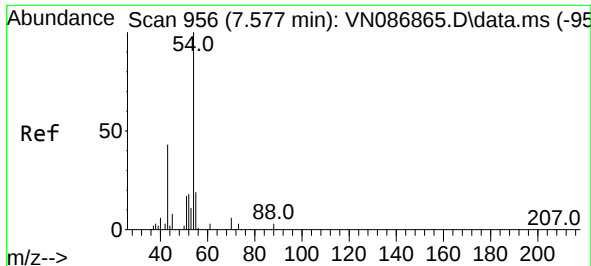
Ion Ratio Lower Upper

75 100

110 6.8 17.6 52.9#

77 0.0 25.3 37.9#

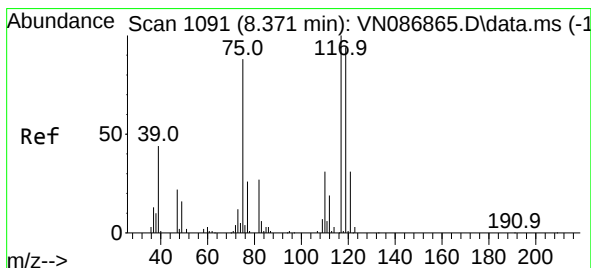
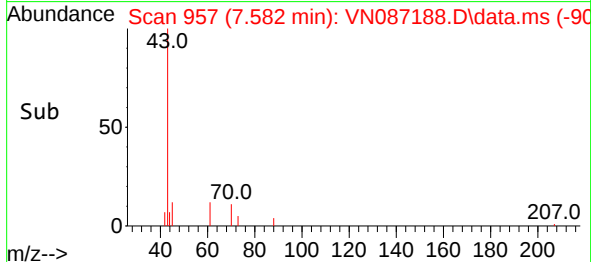
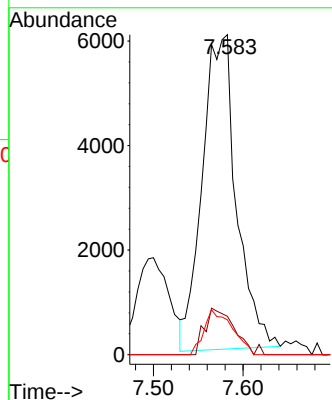
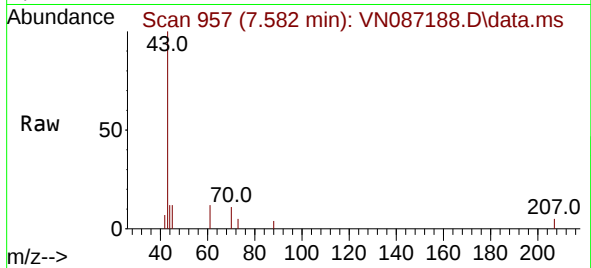




#37
Ethyl Acetate
Concen: 4.996 ug/l
RT: 7.582 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN087188.D
Acq: 26 Jun 2025 12:44

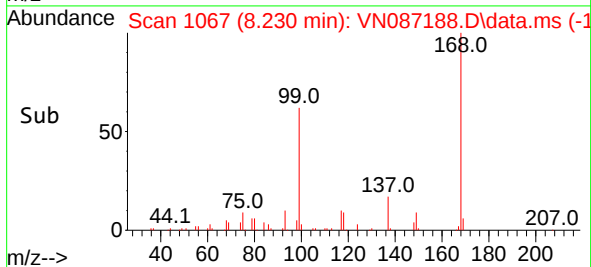
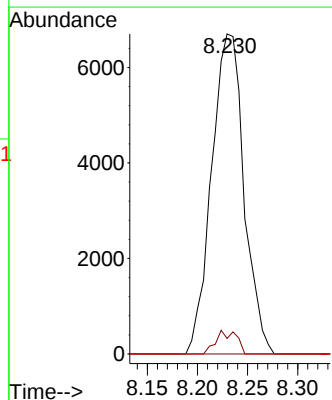
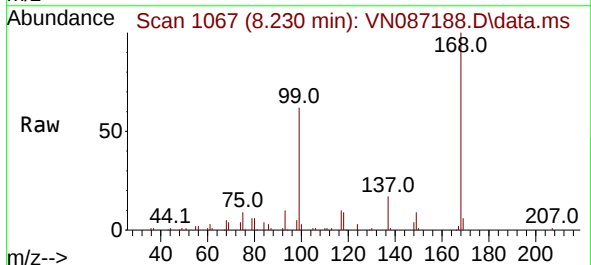
Instrument :
MSVOA_N
ClientSampleId :
TP-12

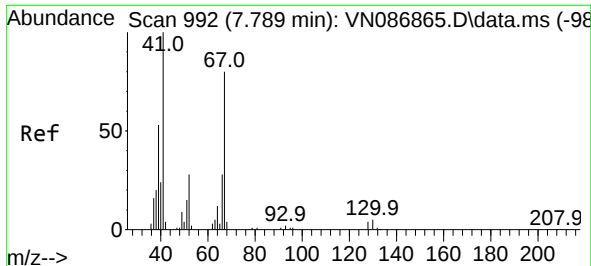
Tgt Ion: 43 Resp: 15909
Ion Ratio Lower Upper
43 100
61 13.0 12.1 18.1
70 11.8 9.8 14.6



#38
Carbon Tetrachloride
Concen: 6.141 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.141 min
Lab File: VN087188.D
Acq: 26 Jun 2025 12:44

Tgt Ion: 117 Resp: 15080
Ion Ratio Lower Upper
117 100
119 4.8 75.0 112.6#
121 0.0 24.9 37.3#

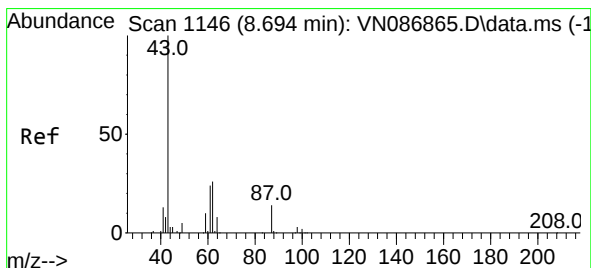
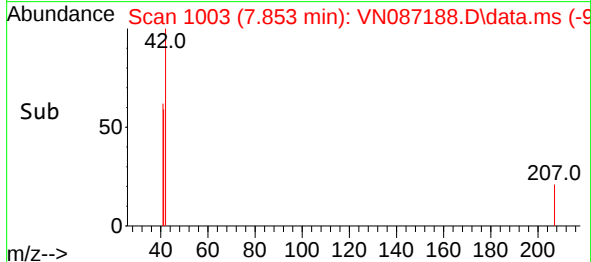
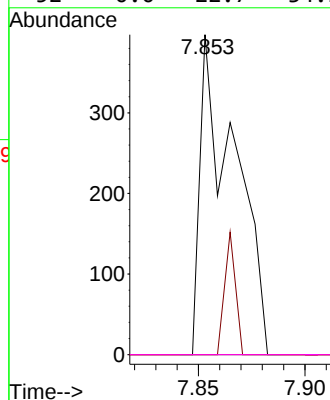
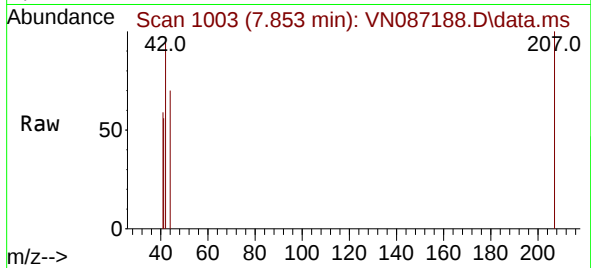




#41
Methacrylonitrile
Concen: 0.251 ug/l
RT: 7.853 min Scan# 1003
Delta R.T. 0.065 min
Lab File: VN087188.D
Acq: 26 Jun 2025 12:44

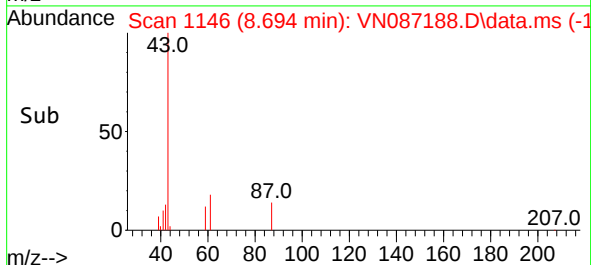
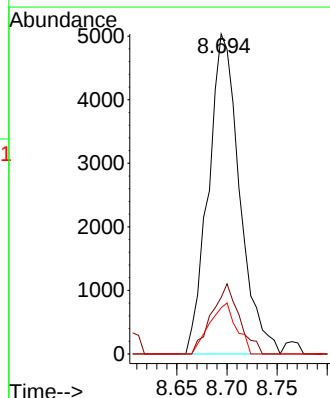
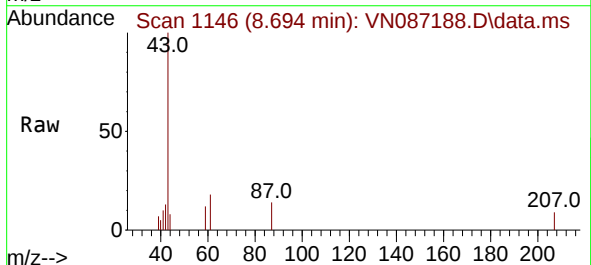
Instrument :
MSVOA_N
ClientSampleId :
TP-12

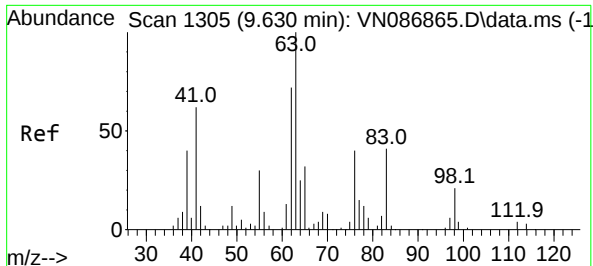
Tgt Ion:	41	Resp:	448
Ion	Ratio	Lower	Upper
41	100		
39	12.1	41.2	61.8#
67	0.0	61.4	92.2#
52	0.0	22.7	34.1#



#43
Isopropyl Acetate
Concen: 2.131 ug/l
RT: 8.694 min Scan# 1146
Delta R.T. -0.000 min
Lab File: VN087188.D
Acq: 26 Jun 2025 12:44

Tgt Ion:	43	Resp:	10889
Ion	Ratio	Lower	Upper
43	100		
61	19.4	22.1	33.1#
87	13.7	11.8	17.6





#45

1,2-Dichloropropane

Concen: 0.686 ug/l

RT: 9.741 min Scan# 1324

Delta R.T. 0.112 min

Lab File: VN087188.D

Acq: 26 Jun 2025 12:44

Instrument :

MSVOA_N

ClientSampleId :

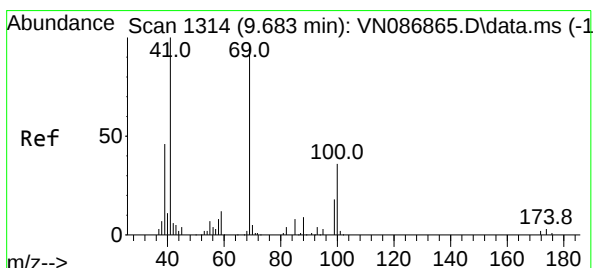
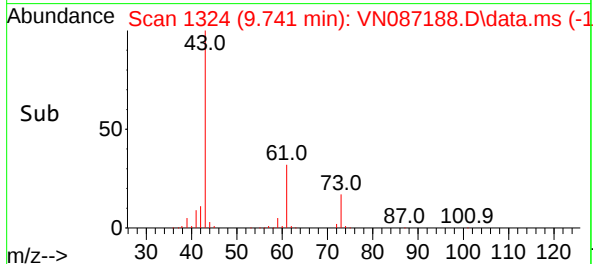
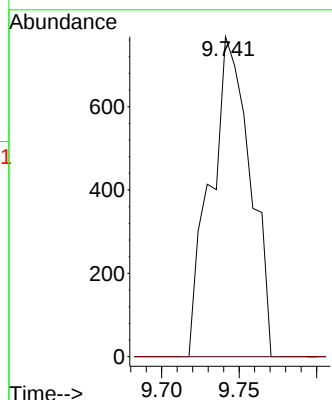
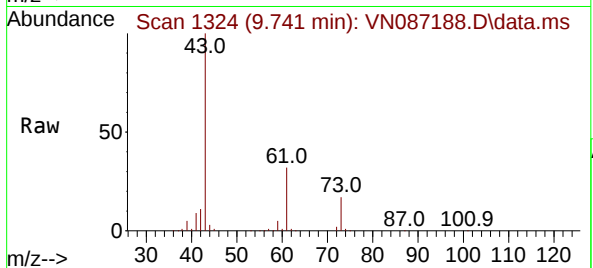
TP-12

Tgt Ion: 63 Resp: 1365

Ion Ratio Lower Upper

63 100

65 0.0 25.5 38.3#



#48

Methyl methacrylate

Concen: 38.931 ug/l

RT: 9.741 min Scan# 1324

Delta R.T. 0.059 min

Lab File: VN087188.D

Acq: 26 Jun 2025 12:44

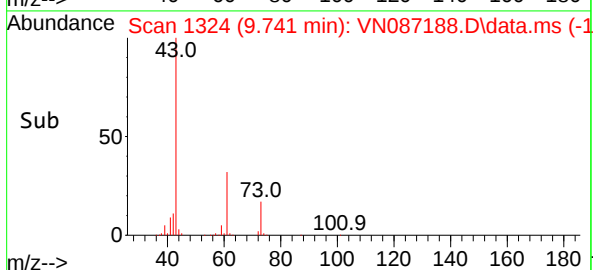
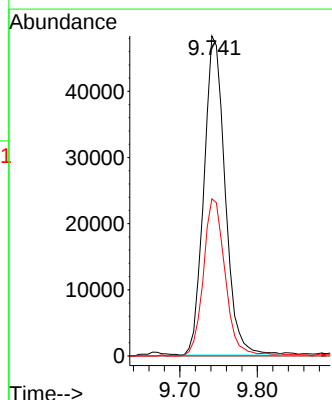
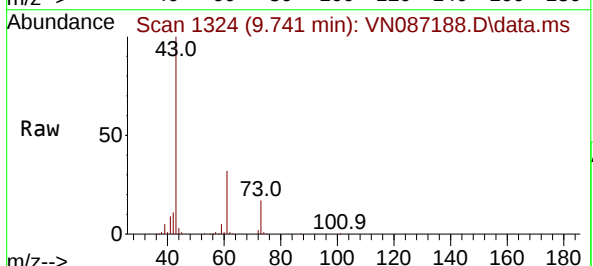
Tgt Ion: 41 Resp: 91572

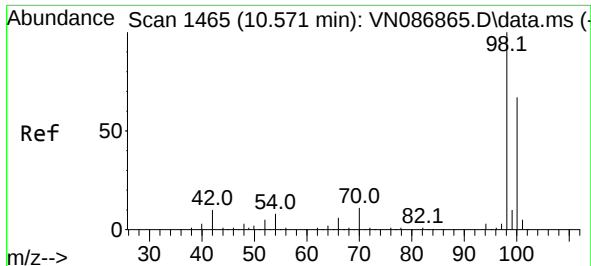
Ion Ratio Lower Upper

41 100

69 0.0 74.6 112.0#

39 51.1 40.2 60.4

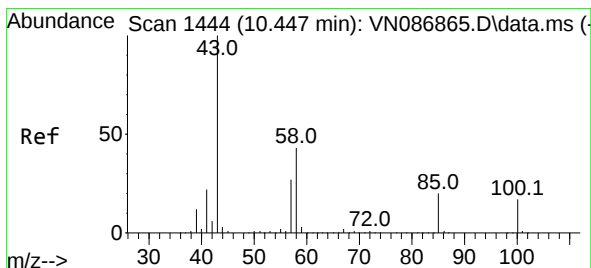
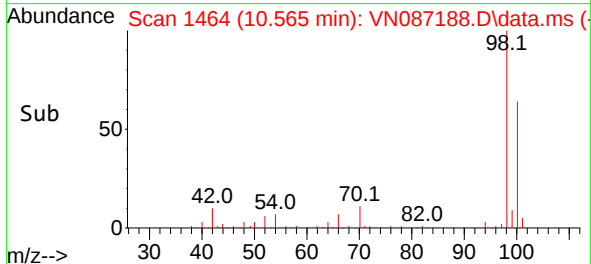
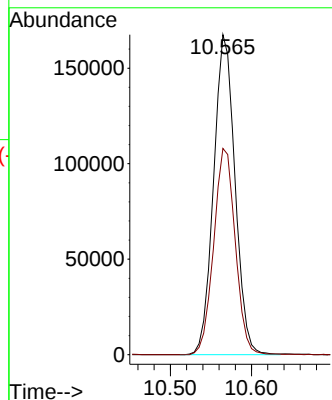
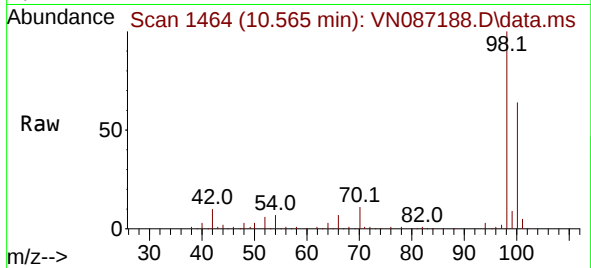




#50
Toluene-d8
Concen: 46.199 ug/l
RT: 10.565 min Scan# 1465
Delta R.T. -0.006 min
Lab File: VN087188.D
Acq: 26 Jun 2025 12:44

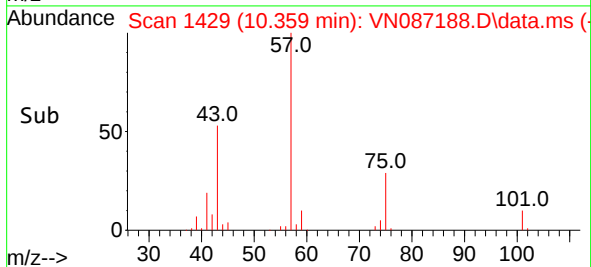
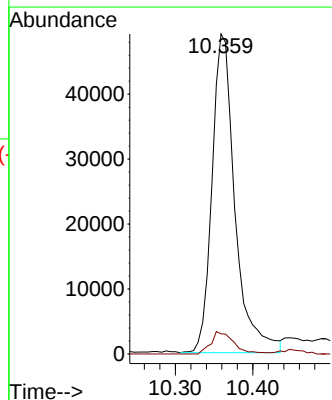
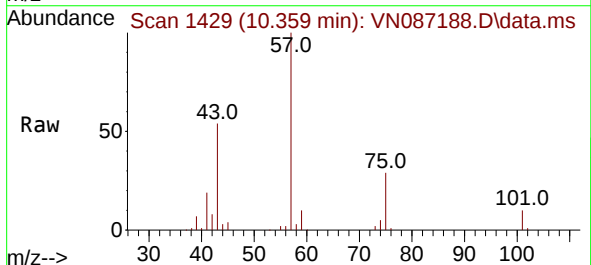
Instrument :
MSVOA_N
ClientSampleId :
TP-12

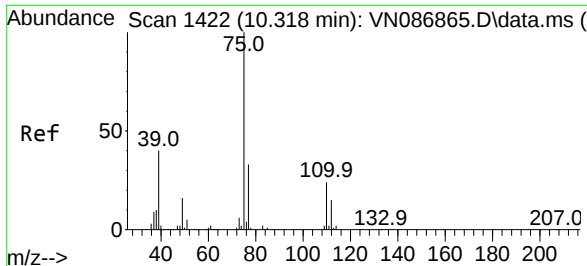
Tgt Ion: 98 Resp: 306992
Ion Ratio Lower Upper
98 100
100 65.1 53.4 80.0



#51
4-Methyl-2-Pentanone
Concen: 32.891 ug/l
RT: 10.359 min Scan# 1429
Delta R.T. -0.088 min
Lab File: VN087188.D
Acq: 26 Jun 2025 12:44

Tgt Ion: 43 Resp: 101190
Ion Ratio Lower Upper
43 100
58 7.0 34.2 51.4#

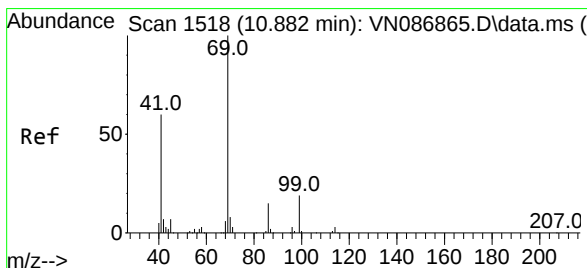
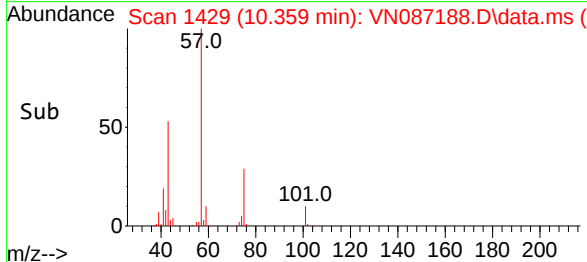
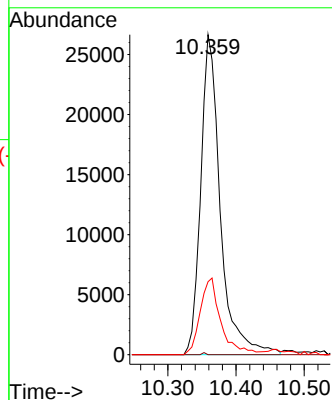
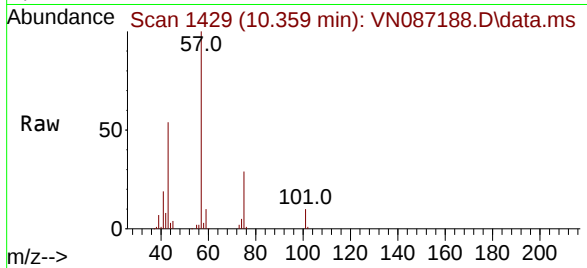




#54
 cis-1,3-Dichloropropene
 Concen: 16.314 ug/l
 RT: 10.359 min Scan# 1429
 Delta R.T. 0.041 min
 Lab File: VN087188.D
 Acq: 26 Jun 2025 12:44

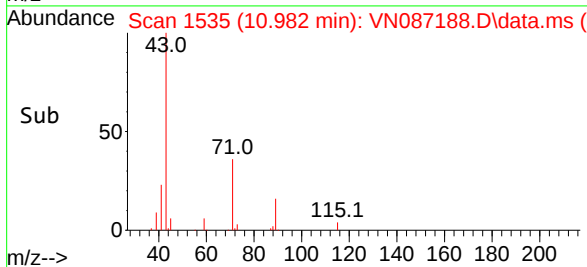
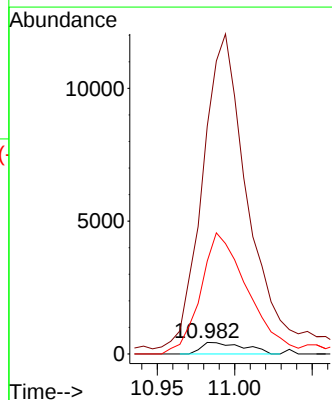
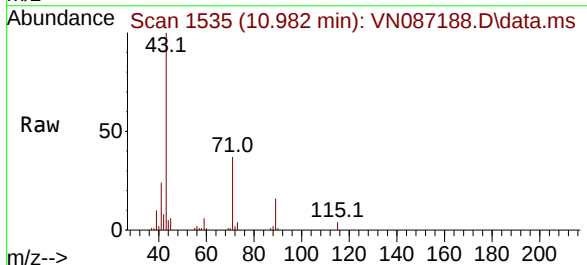
Instrument :
 MSVOA_N
 ClientSampleId :
 TP-12

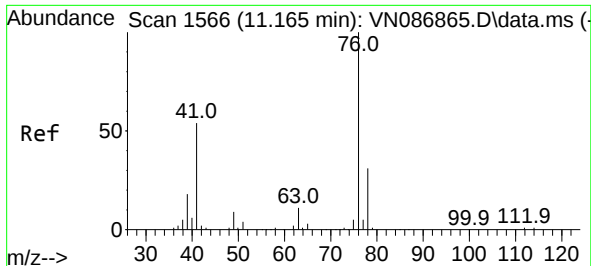
Tgt Ion: 75 Resp: 53080
 Ion Ratio Lower Upper
 75 100
 77 0.0 26.2 39.4#
 39 22.8 32.3 48.5#



#56
 Ethyl methacrylate
 Concen: 0.273 ug/l
 RT: 10.982 min Scan# 1535
 Delta R.T. 0.100 min
 Lab File: VN087188.D
 Acq: 26 Jun 2025 12:44

Tgt Ion: 69 Resp: 835
 Ion Ratio Lower Upper
 69 100
 41 2885.1 47.2 70.8#
 39 1158.9 23.0 34.6#

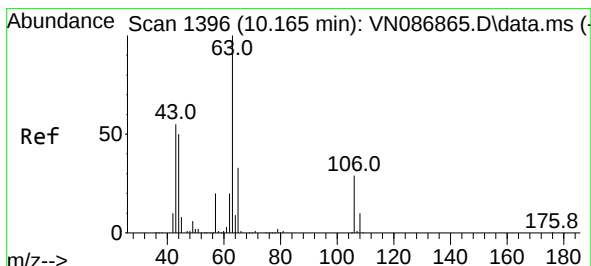
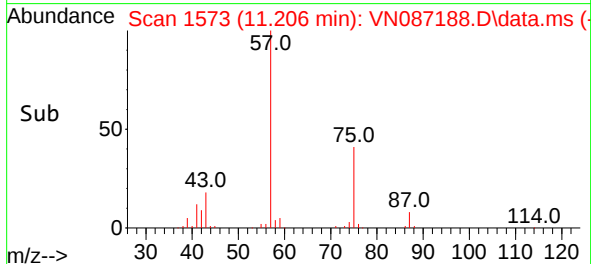
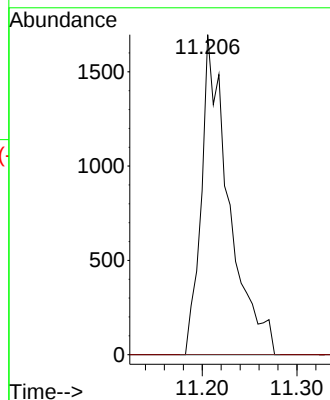
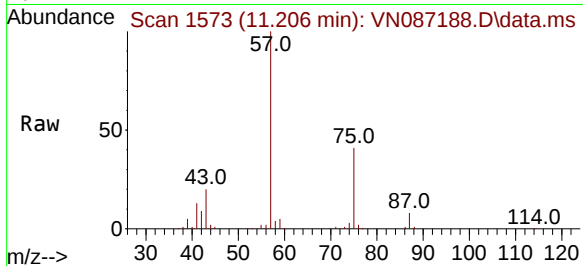




#57
1,3-Dichloropropane
Concen: 1.032 ug/l
RT: 11.206 min Scan# 11
Delta R.T. 0.041 min
Lab File: VN087188.D
Acq: 26 Jun 2025 12:44

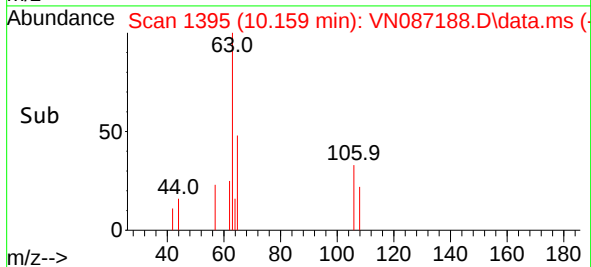
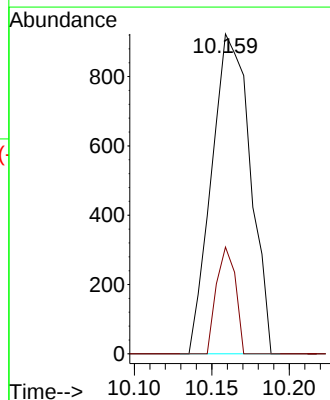
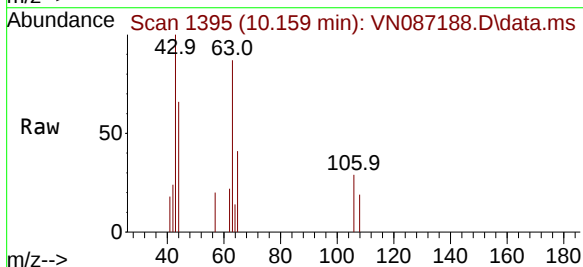
Instrument :
MSVOA_N
ClientSampleId :
TP-12

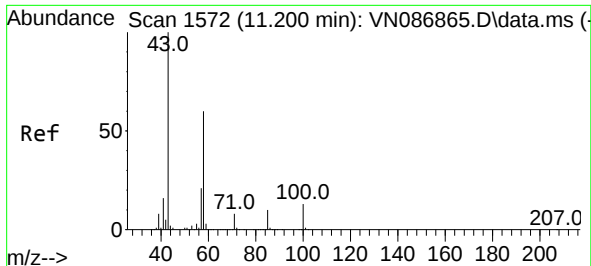
Tgt Ion: 76 Resp: 3443
Ion Ratio Lower Upper
76 100
78 0.0 25.3 37.9#



#58
2-Chloroethyl Vinyl ether
Concen: 0.877 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. -0.006 min
Lab File: VN087188.D
Acq: 26 Jun 2025 12:44

Tgt Ion: 63 Resp: 1602
Ion Ratio Lower Upper
63 100
106 16.4 23.0 34.6#

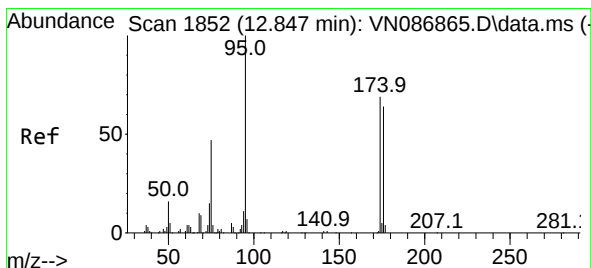
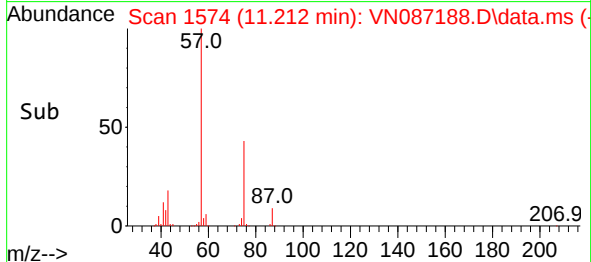
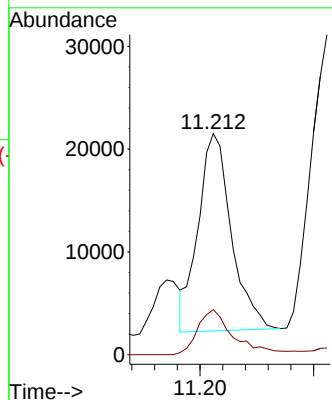
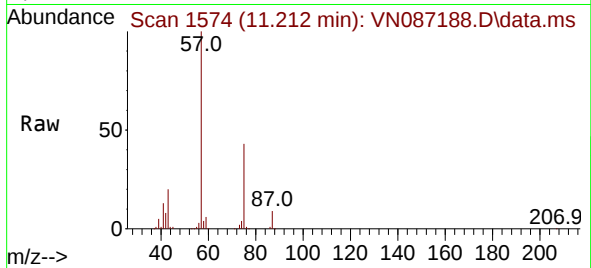




#59
2-Hexanone
Concen: 19.675 ug/l
RT: 11.212 min Scan# 1574
Delta R.T. 0.012 min
Lab File: VN087188.D
Acq: 26 Jun 2025 12:44

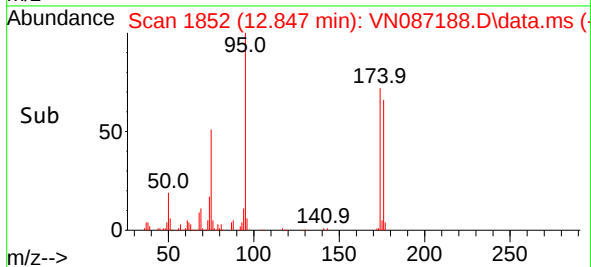
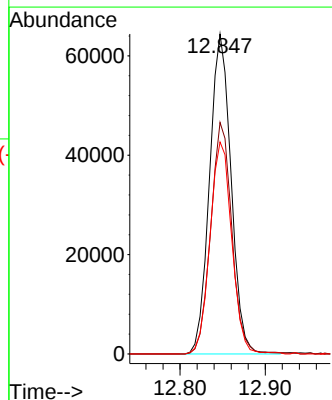
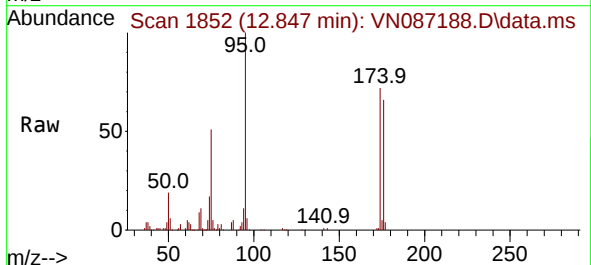
Instrument :
MSVOA_N
ClientSampleId :
TP-12

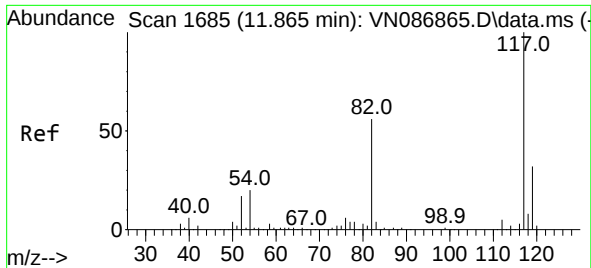
Tgt Ion: 43 Resp: 38991
Ion Ratio Lower Upper
43 100
58 25.2 30.4 91.3#



#62
4-Bromofluorobenzene
Concen: 45.737 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN087188.D
Acq: 26 Jun 2025 12:44

Tgt Ion: 95 Resp: 112916
Ion Ratio Lower Upper
95 100
174 70.8 0.0 141.8
176 67.1 0.0 132.6

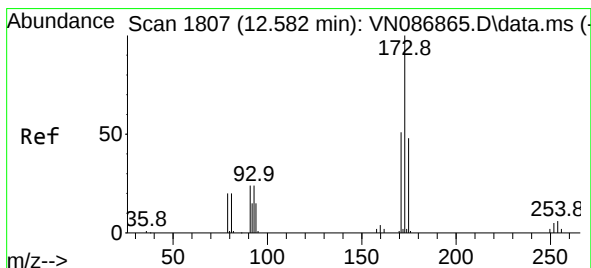
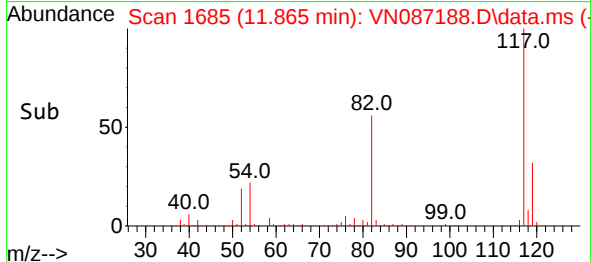
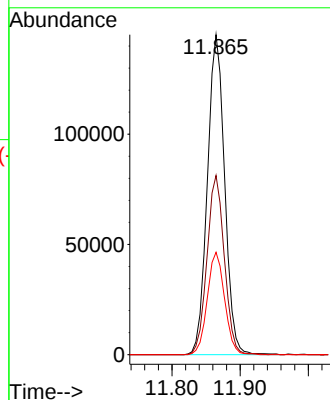
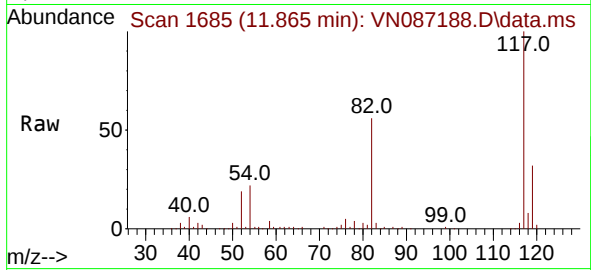




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. -0.000 min
Lab File: VN087188.D
Acq: 26 Jun 2025 12:44

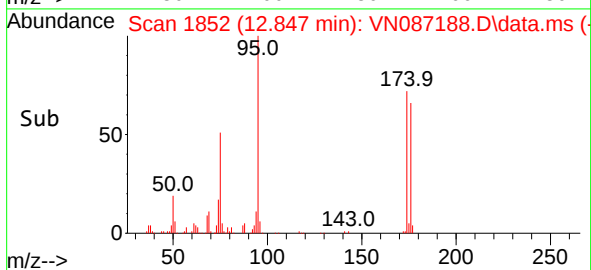
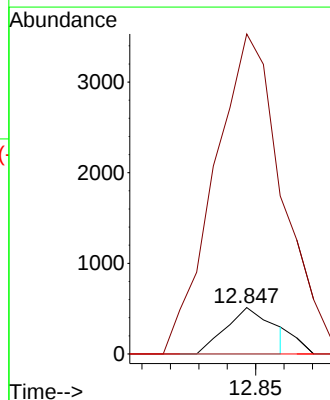
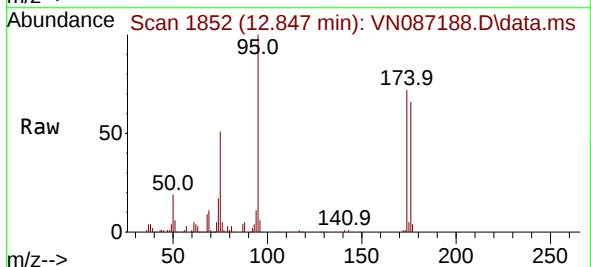
Instrument :
MSVOA_N
ClientSampleId :
TP-12

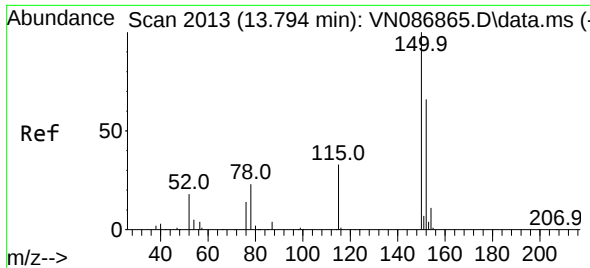
Tgt Ion:117 Resp: 255868
Ion Ratio Lower Upper
117 100
82 56.0 44.6 67.0
119 32.0 25.5 38.3



#71
Bromoform
Concen: 0.441 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.264 min
Lab File: VN087188.D
Acq: 26 Jun 2025 12:44

Tgt Ion:173 Resp: 593
Ion Ratio Lower Upper
173 100
175 871.8 24.1 72.4#
254 0.0 0.0 0.0

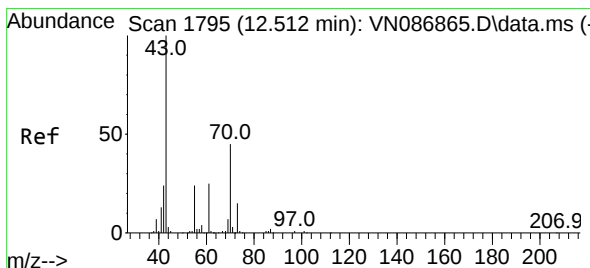
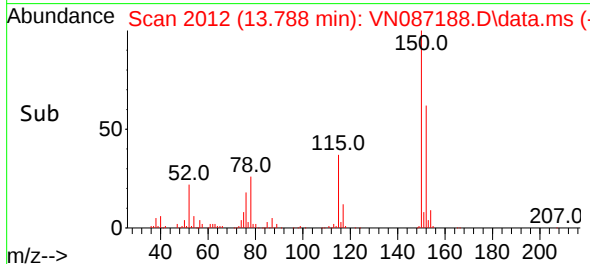
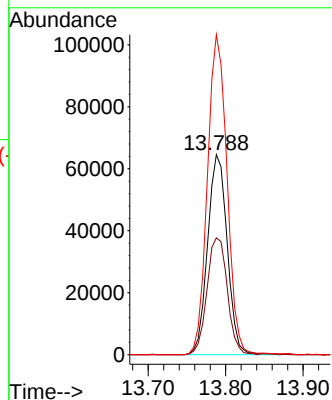
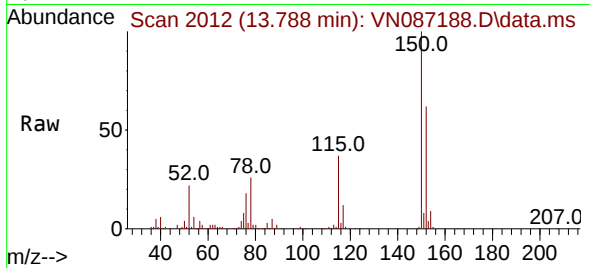




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 20
Delta R.T. -0.006 min
Lab File: VN087188.D
Acq: 26 Jun 2025 12:44

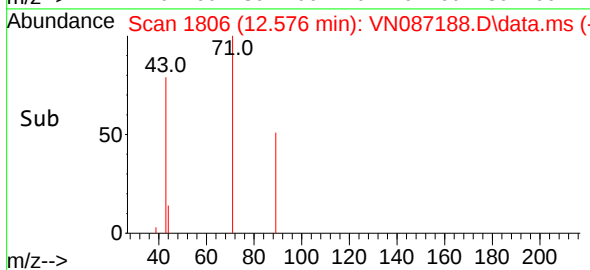
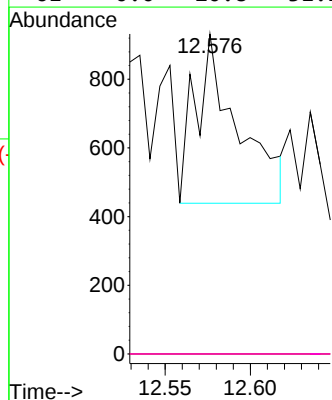
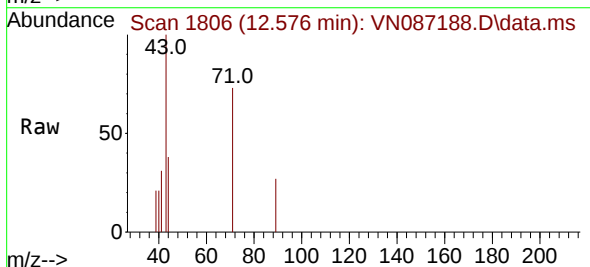
Instrument :
MSVOA_N
ClientSampleId :
TP-12

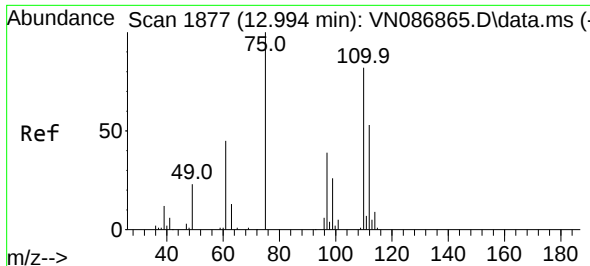
Tgt Ion:152 Resp: 113541
Ion Ratio Lower Upper
152 100
115 60.5 30.1 90.5
150 159.8 0.0 345.0



#74
N-ethyl acetate
Concen: 0.295 ug/l
RT: 12.576 min Scan# 1806
Delta R.T. 0.064 min
Lab File: VN087188.D
Acq: 26 Jun 2025 12:44

Tgt Ion: 43 Resp: 854
Ion Ratio Lower Upper
43 100
70 0.0 37.6 56.4#
55 0.0 19.0 28.6#
61 0.0 20.8 31.2#

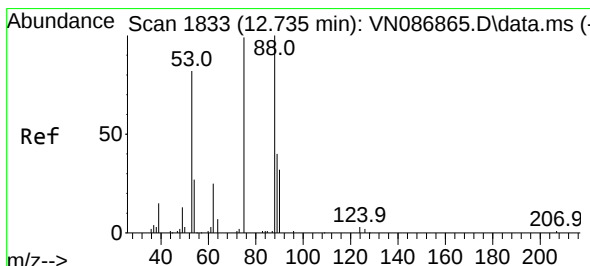
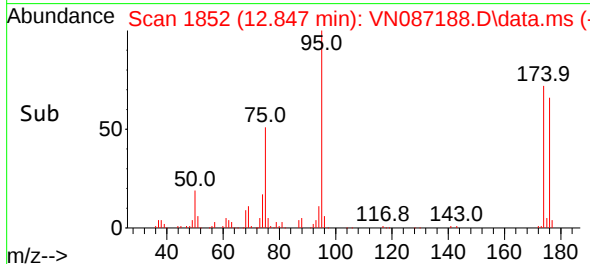
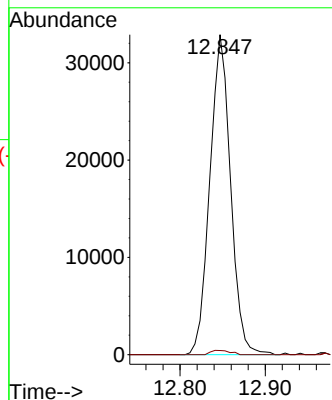
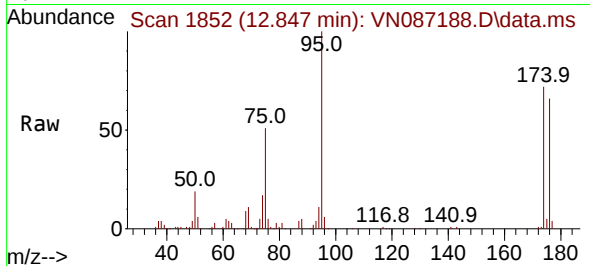




#76
1,2,3-Trichloropropane
Concen: 20.580 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN087188.D
Acq: 26 Jun 2025 12:44

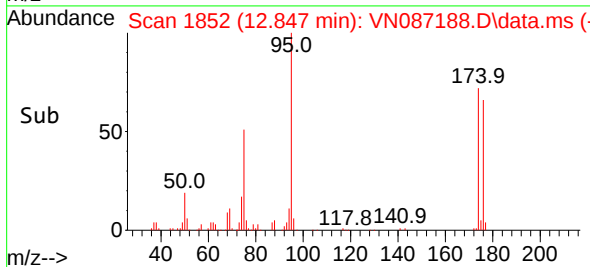
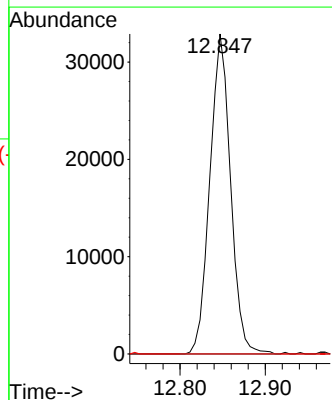
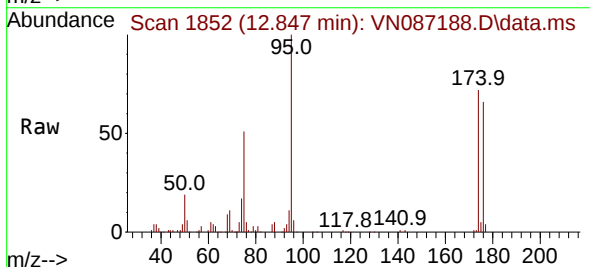
Instrument :
MSVOA_N
ClientSampleId :
TP-12

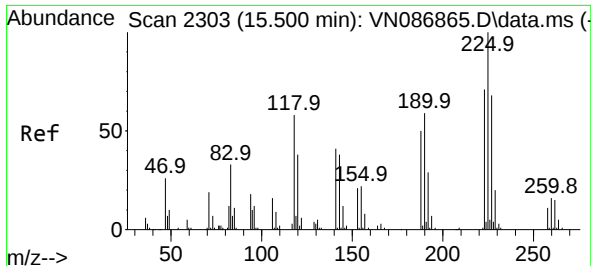
Tgt Ion: 75 Resp: 55544
Ion Ratio Lower Upper
75 100
77 1.3 79.3 237.9#



#81
trans-1,4-Dichloro-2-butene
Concen: 47.375 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN087188.D
Acq: 26 Jun 2025 12:44

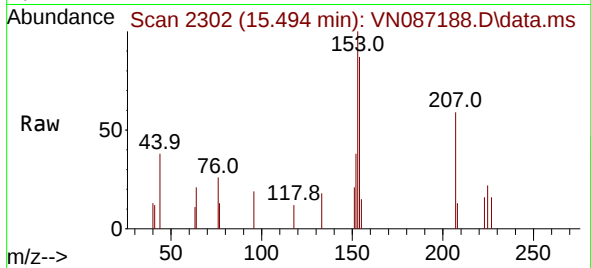
Tgt Ion: 75 Resp: 55544
Ion Ratio Lower Upper
75 100
53 0.0 66.6 99.8#
89 0.0 36.7 55.1#





#94
Hexachlorobutadiene
Concen: 0.322 ug/l
RT: 15.494 min Scan# 21
Delta R.T. -0.006 min
Lab File: VN087188.D
Acq: 26 Jun 2025 12:44

Instrument :
MSVOA_N
ClientSampleId :
TP-12



Tgt Ion:	225	Resp:	275
Ion	Ratio	Lower	Upper
225	100		
223	90.9	33.5	100.4
227	53.5	31.1	93.5

