

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060325\
 Data File : VN086845.D
 Acq On : 03 Jun 2025 16:09
 Operator : JC\MD
 Sample : PB168225ZHE#06
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB168225ZHE#06

Quant Time: Jun 04 02:01:15 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
 Quant Title : SW846 8260
 QLast Update : Sat May 17 00:46:13 2025
 Response via : Initial Calibration

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

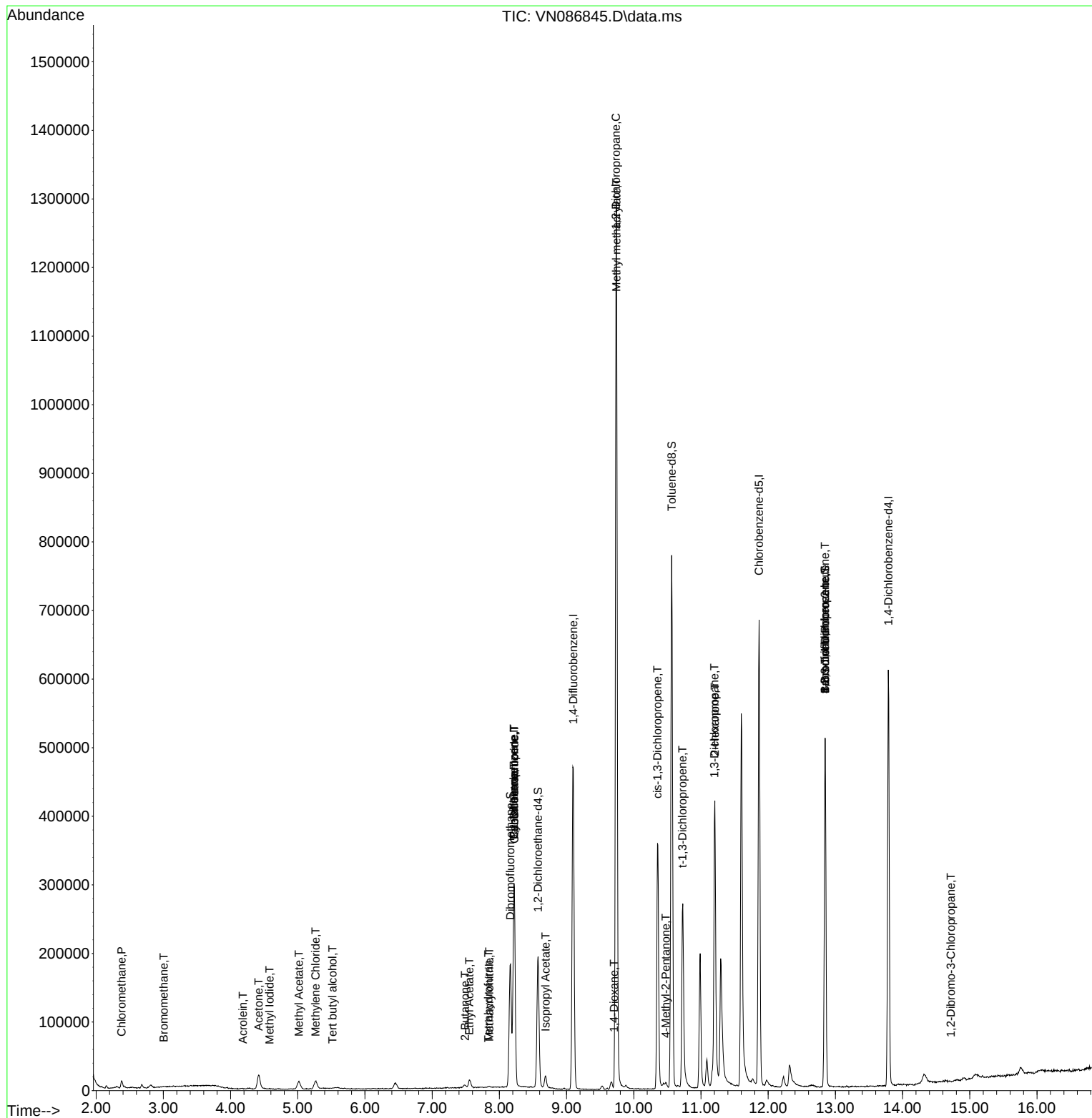
Internal Standards						
1) Pentafluorobenzene	8.218	168	228590	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	443170	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	410736	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	174516	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	156813	49.645	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	99.280%		
35) Dibromofluoromethane	8.165	113	136979	51.900	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	103.800%		
50) Toluene-d8	10.565	98	561160	51.307	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	102.620%		
62) 4-Bromofluorobenzene	12.847	95	200778	51.990	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	103.980%		
Target Compounds						Qvalue
3) Chloromethane	2.377	50	19006	5.090	ug/l	98
5) Bromomethane	3.006	94	445	0.230	ug/l #	61
10) Methyl Iodide	4.583	142	824	0.276	ug/l #	43
11) Tert butyl alcohol	5.518	59	368	0.640	ug/l #	73
13) Acrolein	4.183	56	520	0.846	ug/l #	40
16) Acetone	4.418	43	39514	33.442	ug/l	96
18) Methyl Acetate	5.018	43	24246	7.332	ug/l	99
20) Methylene Chloride	5.265	84	9230	2.960	ug/l	97
25) 2-Butanone	7.488	43	7313	4.005	ug/l #	88
29) Tetrahydrofuran	7.835	42	1117	0.937	ug/l #	59
31) Cyclohexane	8.218	56	4403	0.929	ug/l #	1
36) 1,1-Dichloropropene	8.218	75	18422	4.732	ug/l #	49
37) Ethyl Acetate	7.553	43	17411	4.427	ug/l	99
38) Carbon Tetrachloride	8.224	117	22177	5.782	ug/l #	16
41) Methacrylonitrile	7.853	41	703	0.331	ug/l #	33
43) Isopropyl Acetate	8.688	43	20245	2.568	ug/l #	92
45) 1,2-Dichloropropane	9.735	63	1971	0.653	ug/l #	42
48) Methyl methacrylate	9.741	41	107348	35.140	ug/l #	36
49) 1,4-Dioxane	9.706	88	231	3.571	ug/l #	24
51) 4-Methyl-2-Pentanone	10.476	43	6525	1.641	ug/l #	33
53) t-1,3-Dichloropropene	10.724	75	1060	0.239	ug/l #	43
54) cis-1,3-Dichloropropene	10.353	75	79873	16.476	ug/l #	55
57) 1,3-Dichloropropane	11.200	76	5271	1.039	ug/l #	42
59) 2-Hexanone	11.206	43	82742	28.500	ug/l #	43
71) Bromoform	12.847	173	802	0.388	ug/l #	1
76) 1,2,3-Trichloropropane	12.847	75	94173	23.860	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	94173	60.215	ug/l #	15
92) 1,2-Dibromo-3-Chloropr...	14.717	75	140	0.204	ug/l #	2

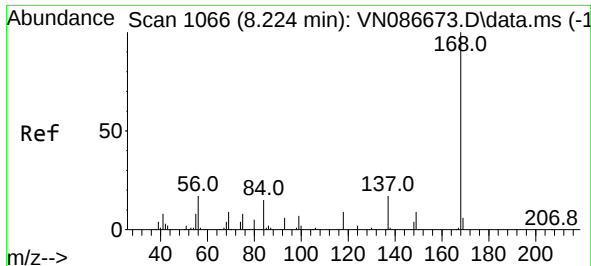
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060325\
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Quant Title : SW846 8260
QLast Update : Sat May 17 00:46:13 2025
Response via : Initial Calibration

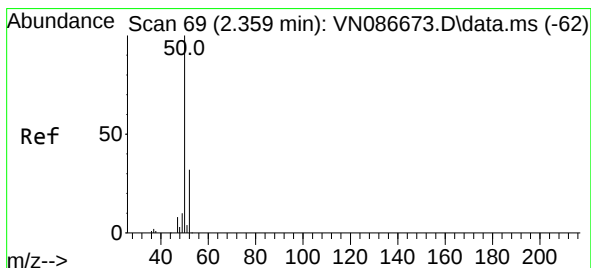
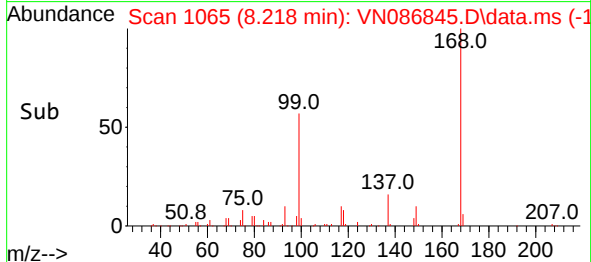
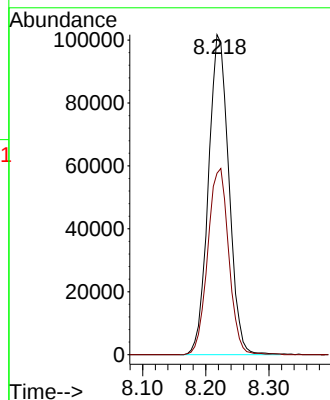
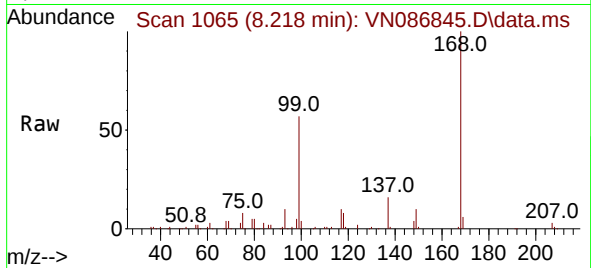




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.006 min
Lab File: VN086845.D
Acq: 03 Jun 2025 16:09

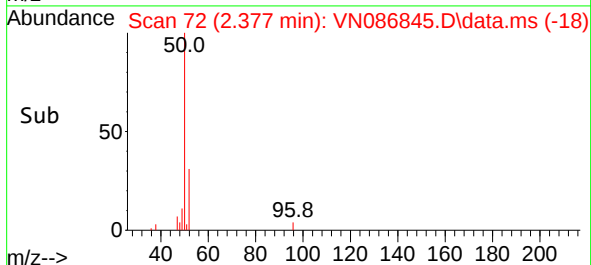
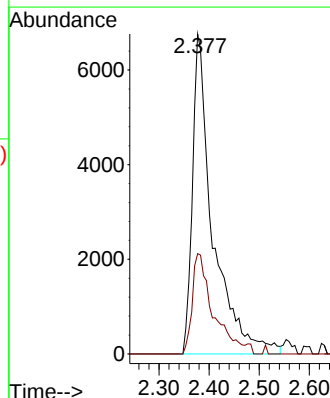
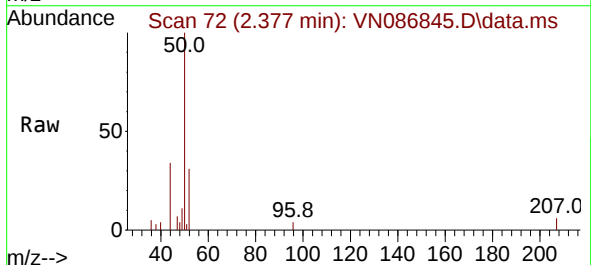
Instrument :
MSVOA_N
ClientSampleId :
PB168225ZHE#06

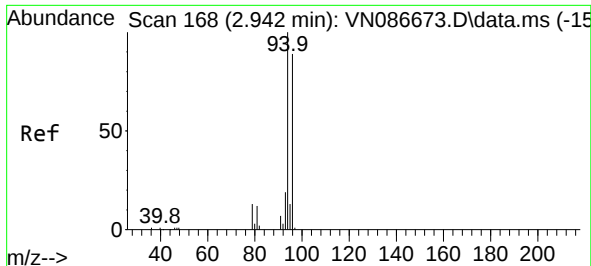
Tgt Ion:168 Resp: 228590
Ion Ratio Lower Upper
168 100
99 56.7 47.0 70.4



#3
Chloromethane
Concen: 5.090 ug/l
RT: 2.377 min Scan# 72
Delta R.T. 0.018 min
Lab File: VN086845.D
Acq: 03 Jun 2025 16:09

Tgt Ion: 50 Resp: 19006
Ion Ratio Lower Upper
50 100
52 31.3 25.9 38.9

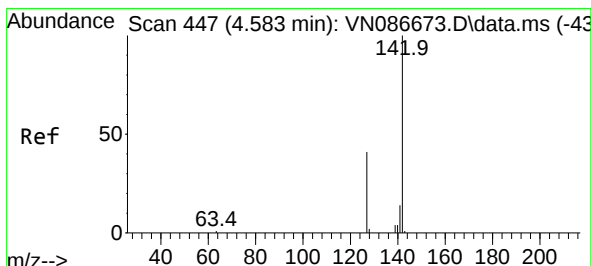
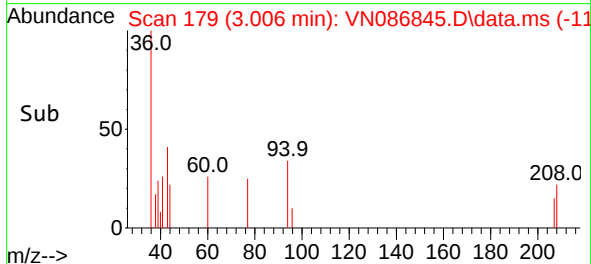
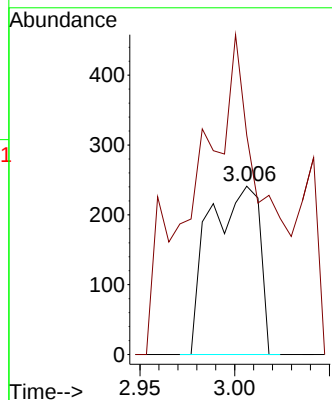
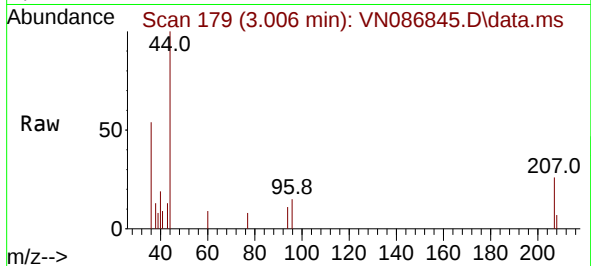




#5
Bromomethane
Concen: 0.230 ug/l
RT: 3.006 min Scan# 11
Delta R.T. 0.065 min
Lab File: VN086845.D
Acq: 03 Jun 2025 16:09

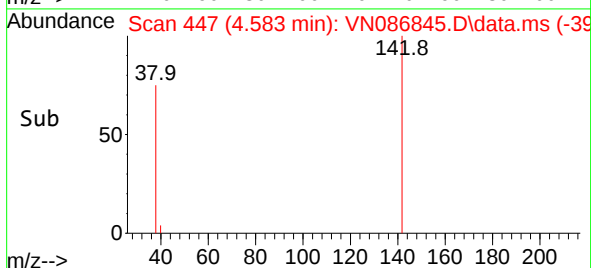
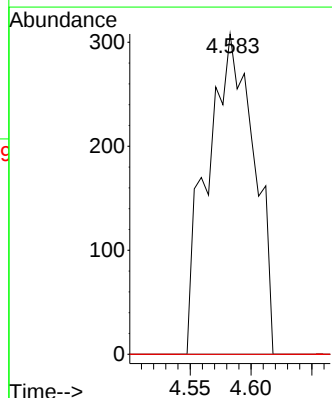
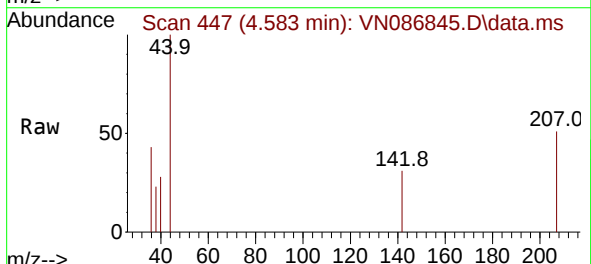
Instrument :
MSVOA_N
ClientSampleId :
PB168225ZHE#06

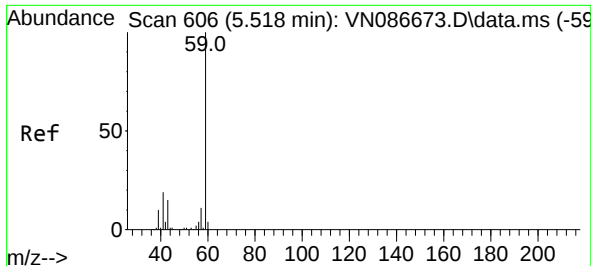
Tgt Ion: 94 Resp: 445
Ion Ratio Lower Upper
94 100
96 52.7 71.2 106.8#



#10
Methyl Iodide
Concen: 0.276 ug/l
RT: 4.583 min Scan# 447
Delta R.T. -0.000 min
Lab File: VN086845.D
Acq: 03 Jun 2025 16:09

Tgt Ion:142 Resp: 824
Ion Ratio Lower Upper
142 100
127 0.0 32.4 48.6#
141 0.0 11.4 17.2#

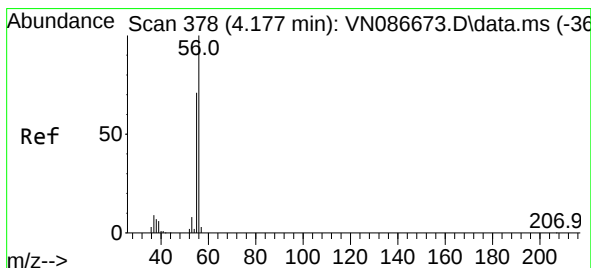
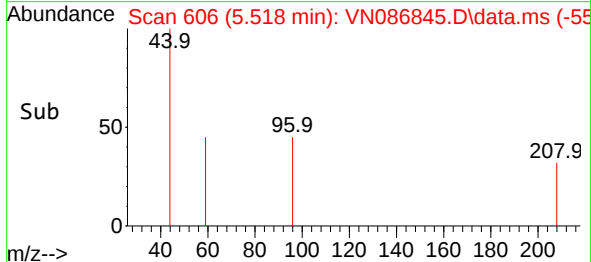
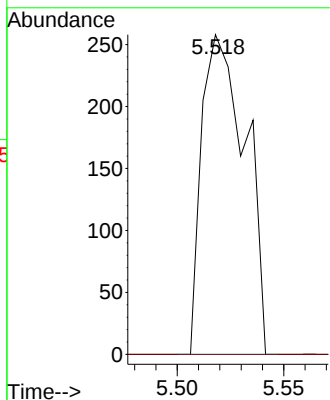
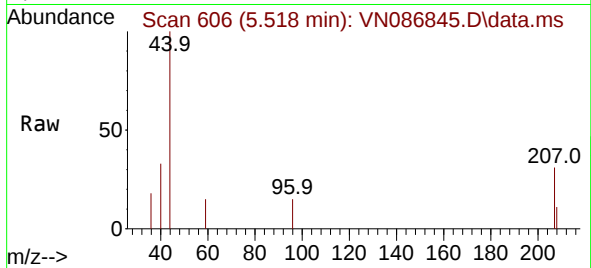




#11
Tert butyl alcohol
Concen: 0.640 ug/l
RT: 5.518 min Scan# 606
Delta R.T. -0.000 min
Lab File: VN086845.D
Acq: 03 Jun 2025 16:09

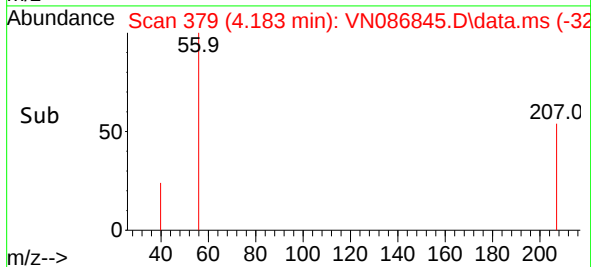
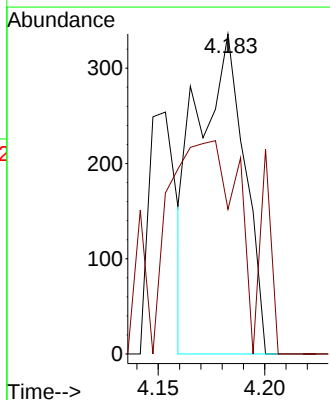
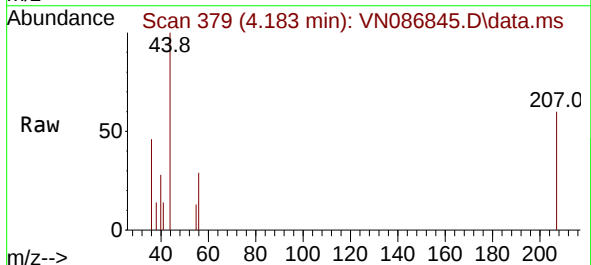
Instrument :
MSVOA_N
ClientSampleId :
PB168225ZHE#06

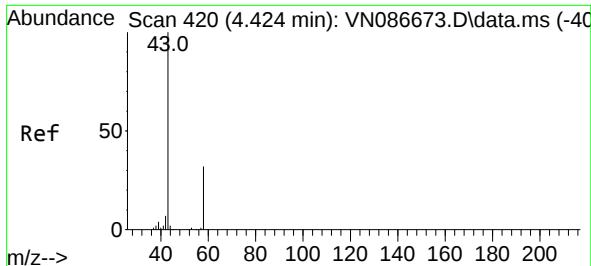
Tgt Ion: 59 Resp: 368
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.2#



#13
Acrolein
Concen: 0.846 ug/l
RT: 4.183 min Scan# 379
Delta R.T. 0.006 min
Lab File: VN086845.D
Acq: 03 Jun 2025 16:09

Tgt Ion: 56 Resp: 520
Ion Ratio Lower Upper
56 100
55 118.7 55.7 83.5#

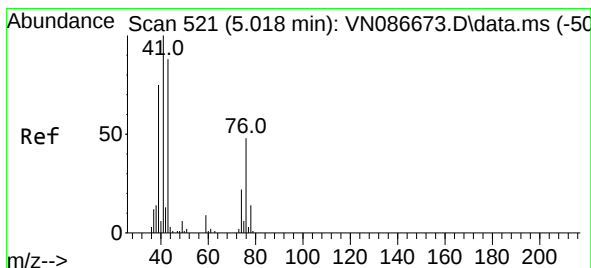
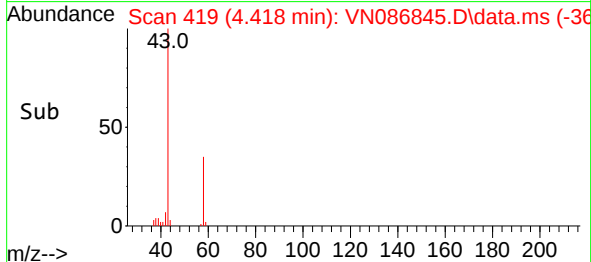
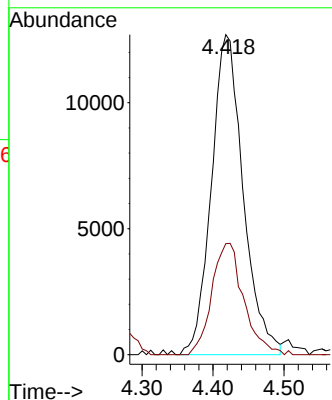
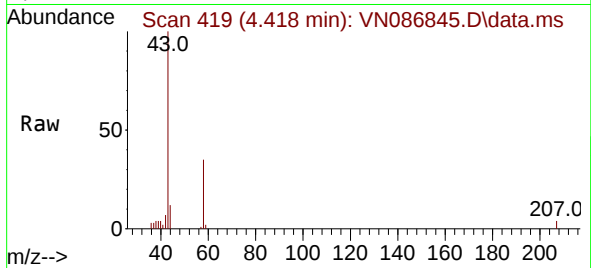




#16
Acetone
Concen: 33.442 ug/l
RT: 4.418 min Scan# 419
Delta R.T. -0.006 min
Lab File: VN086845.D
Acq: 03 Jun 2025 16:09

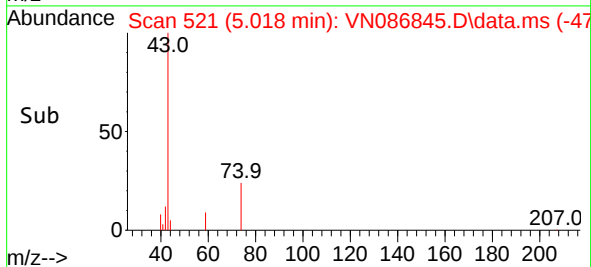
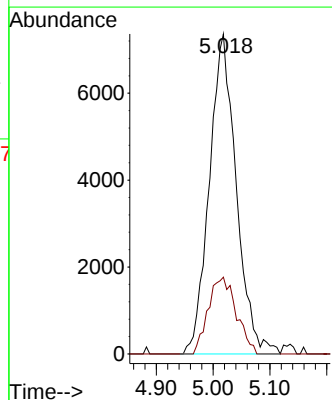
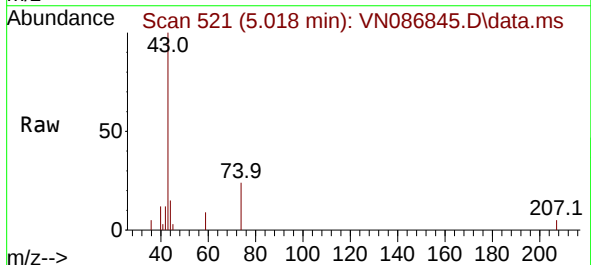
Instrument :
MSVOA_N
ClientSampleId :
PB168225ZHE#06

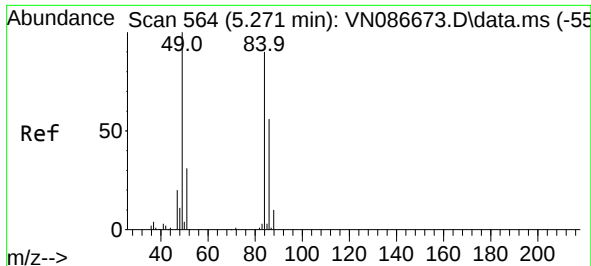
Tgt Ion: 43 Resp: 39514
Ion Ratio Lower Upper
43 100
58 34.7 25.8 38.6



#18
Methyl Acetate
Concen: 7.332 ug/l
RT: 5.018 min Scan# 521
Delta R.T. -0.000 min
Lab File: VN086845.D
Acq: 03 Jun 2025 16:09

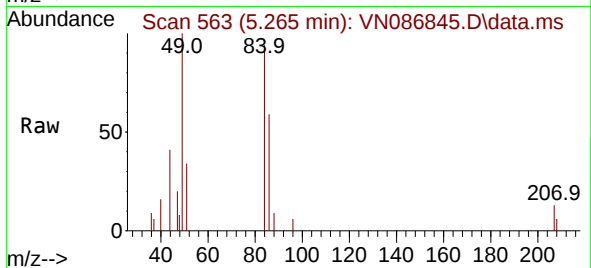
Tgt Ion: 43 Resp: 24246
Ion Ratio Lower Upper
43 100
74 24.9 20.5 30.7



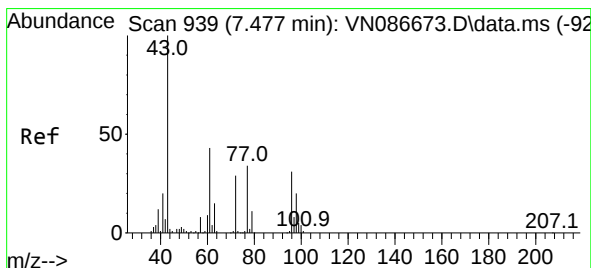
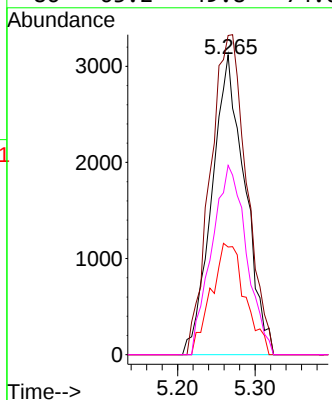
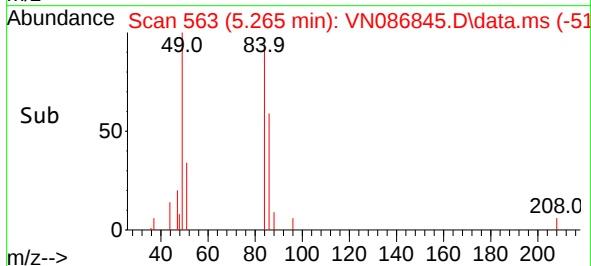


#20
Methylene Chloride
Concen: 2.960 ug/l
RT: 5.265 min Scan# 51
Delta R.T. -0.006 min
Lab File: VN086845.D
Acq: 03 Jun 2025 16:09

Instrument :
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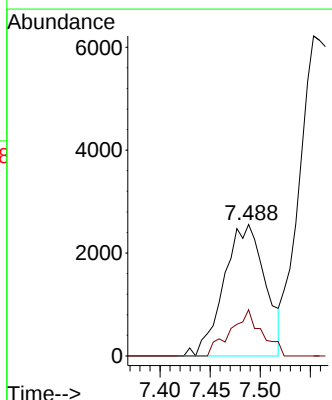
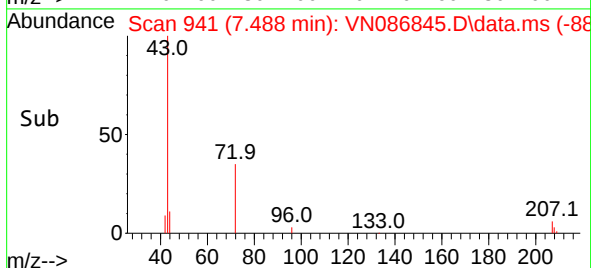
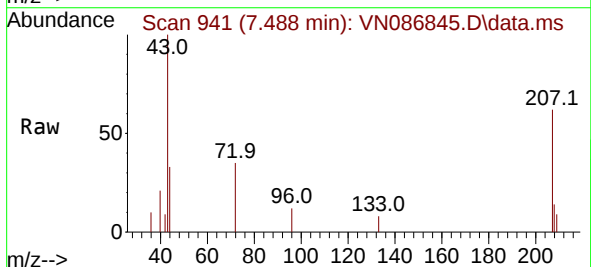


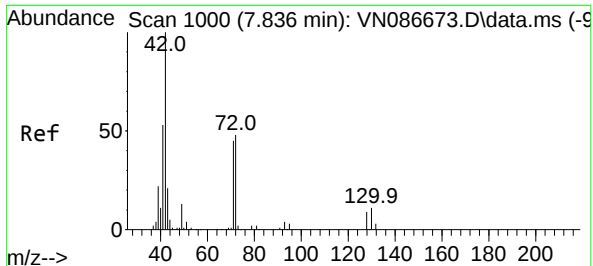
Tgt Ion: 84	Resp: 9230
Ion Ratio	Lower Upper
84 100	
49 106.5	88.8 133.2
51 36.0	27.8 41.6
86 63.2	49.8 74.6



#25
2-Butanone
Concen: 4.005 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.012 min
Lab File: VN086845.D
Acq: 03 Jun 2025 16:09

Tgt Ion: 43	Resp: 7313		
Ion Ratio	Lower	Upper	
43 100			
72 35.1	23.1	34.7#	





#29

Tetrahydrofuran

Concen: 0.937 ug/l

RT: 7.835 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086845.D

Acq: 03 Jun 2025 16:09

Instrument :

MSVOA_N

ClientSampleId :

PB168225ZHE#06

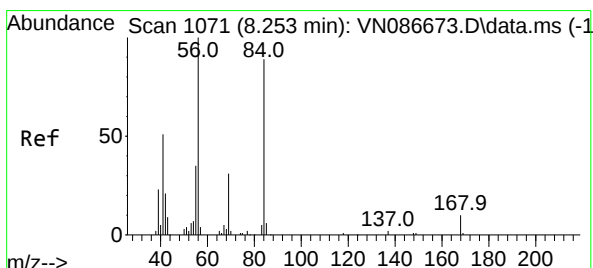
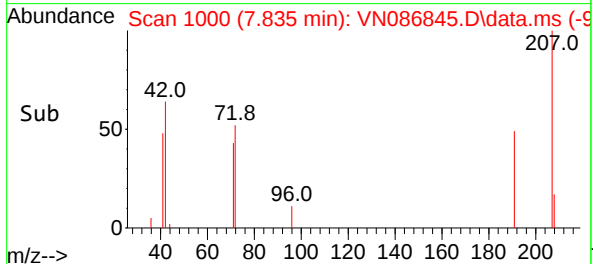
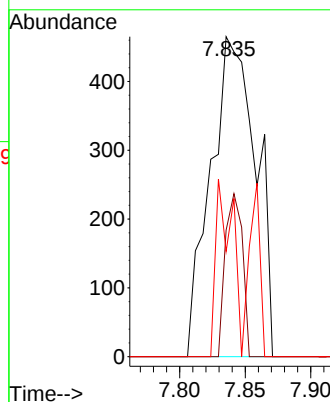
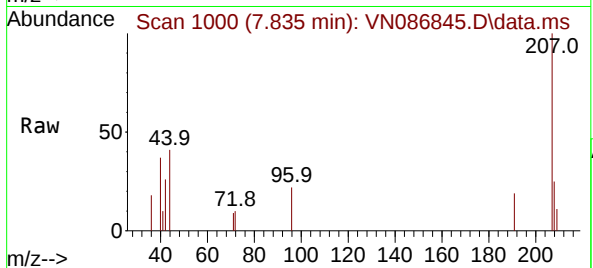
Tgt Ion: 42 Resp: 1117

Ion Ratio Lower Upper

42 100

72 19.2 38.7 58.1#

71 20.2 36.2 54.4#



#31

Cyclohexane

Concen: 0.929 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.035 min

Lab File: VN086845.D

Acq: 03 Jun 2025 16:09

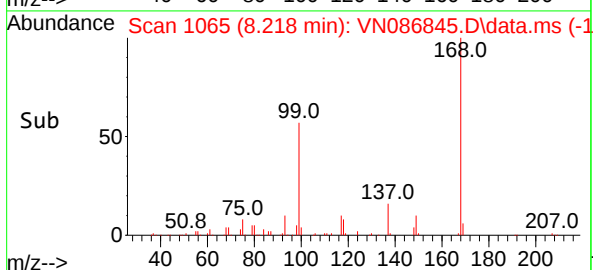
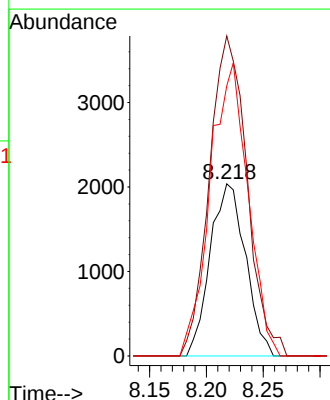
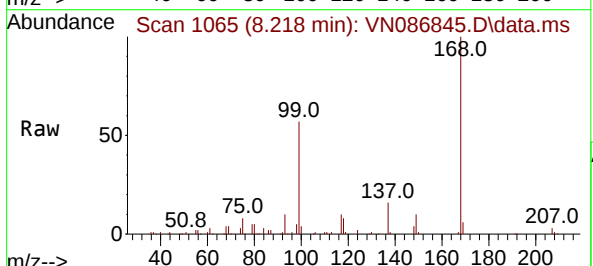
Tgt Ion: 56 Resp: 4403

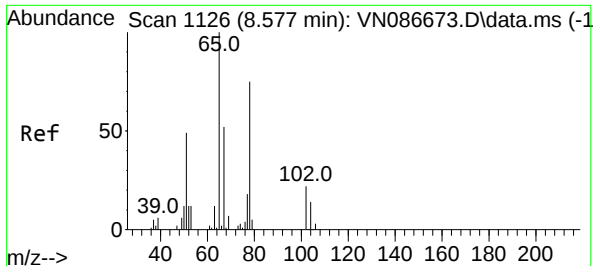
Ion Ratio Lower Upper

56 100

69 185.9 25.0 37.6#

84 156.9 71.0 106.4#





#33

1,2-Dichloroethane-d4

Concen: 49.645 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. -0.000 min

Lab File: VN086845.D

Acq: 03 Jun 2025 16:09

Instrument :

MSVOA_N

ClientSampleId :

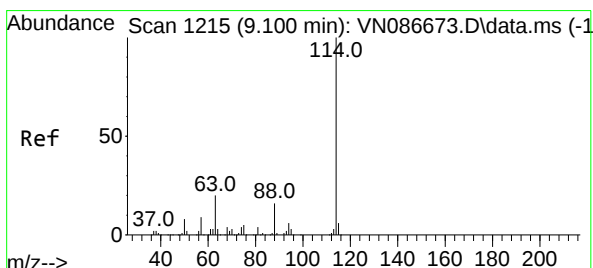
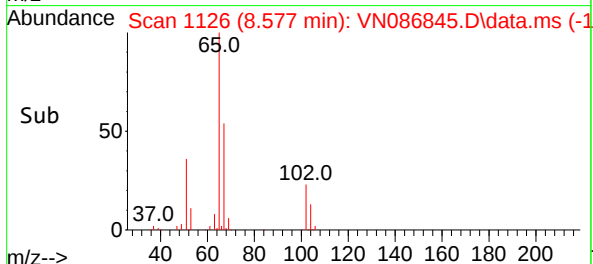
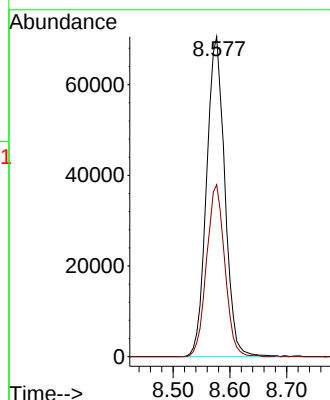
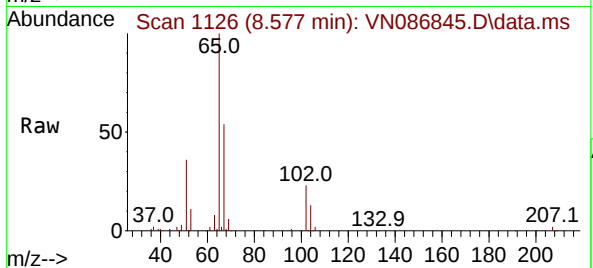
PB168225ZHE#06

Tgt Ion: 65 Resp: 156813

Ion Ratio Lower Upper

65 100

67 53.8 0.0 106.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. -0.000 min

Lab File: VN086845.D

Acq: 03 Jun 2025 16:09

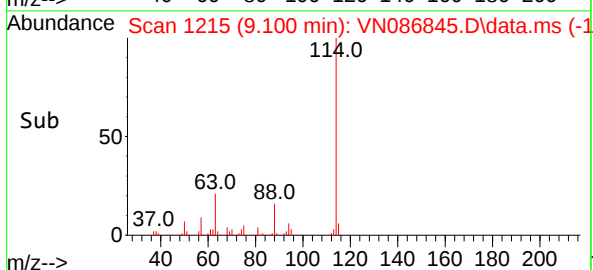
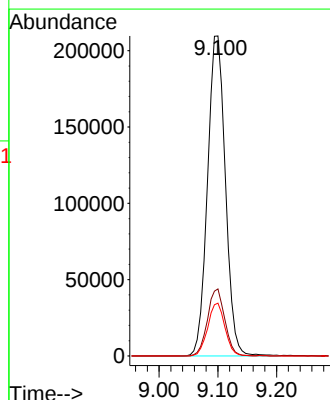
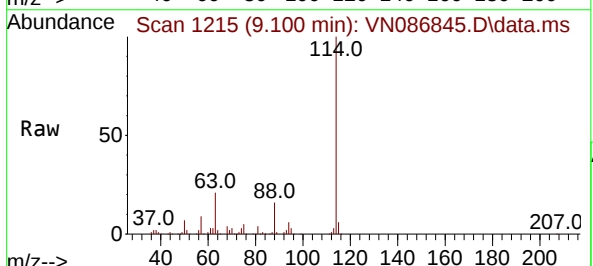
Tgt Ion: 114 Resp: 443170

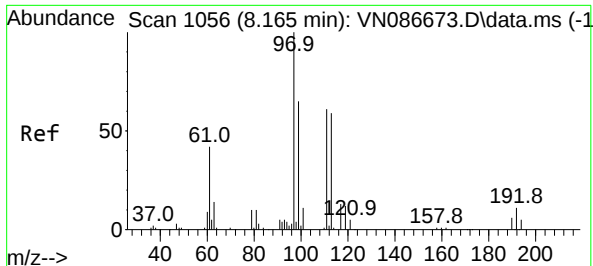
Ion Ratio Lower Upper

114 100

63 20.9 0.0 40.2

88 16.5 0.0 31.2





#35

Dibromofluoromethane

Concen: 51.900 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN086845.D

Acq: 03 Jun 2025 16:09

Instrument :

MSVOA_N

ClientSampleId :

PB168225ZHE#06

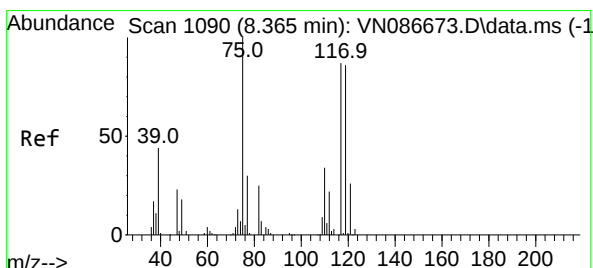
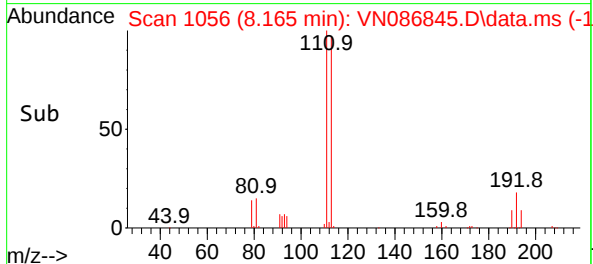
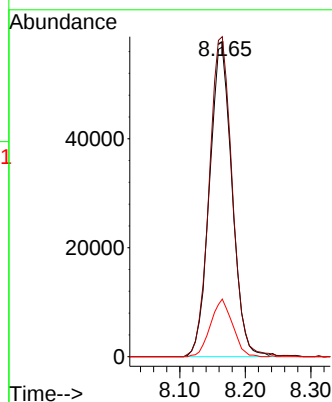
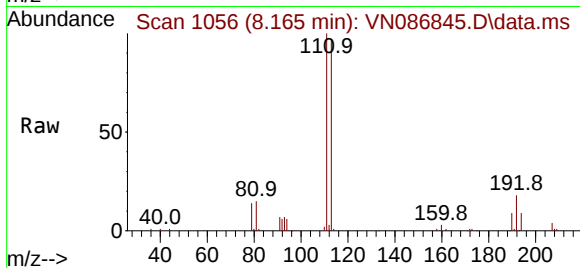
Tgt Ion:113 Resp: 136979

Ion Ratio Lower Upper

113 100

111 104.2 82.2 123.2

192 18.0 13.8 20.8



#36

1,1-Dichloropropene

Concen: 4.732 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.147 min

Lab File: VN086845.D

Acq: 03 Jun 2025 16:09

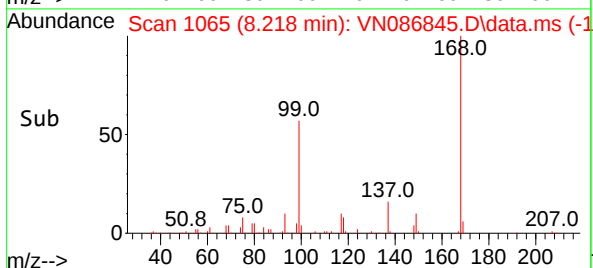
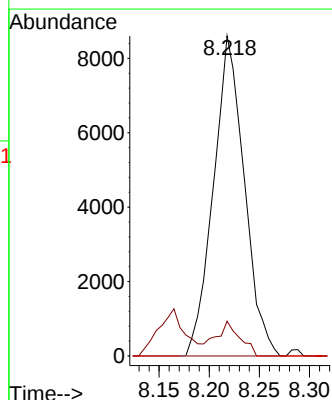
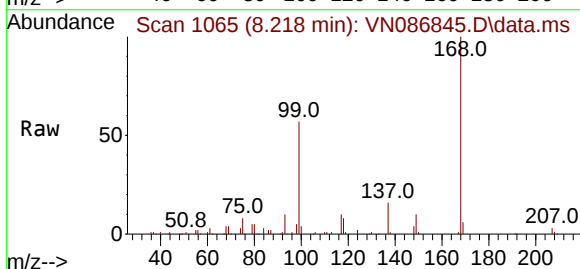
Tgt Ion: 75 Resp: 18422

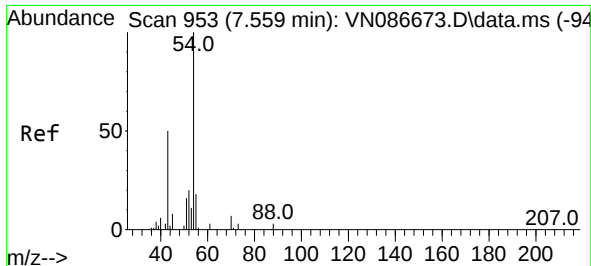
Ion Ratio Lower Upper

75 100

110 8.3 17.5 52.5#

77 0.0 25.1 37.7#





#37

Ethyl Acetate

Concen: 4.427 ug/l

RT: 7.553 min Scan# 91

Delta R.T. -0.006 min

Lab File: VN086845.D

Acq: 03 Jun 2025 16:09

Instrument :

MSVOA_N

ClientSampleId :

PB168225ZHE#06

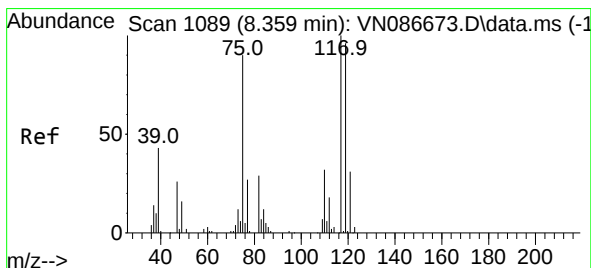
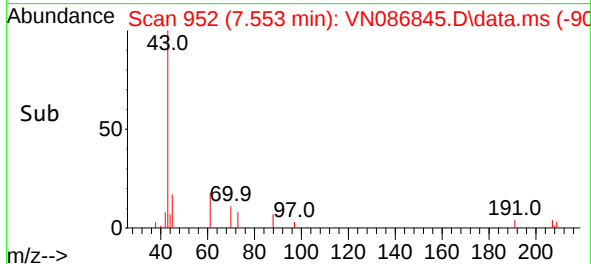
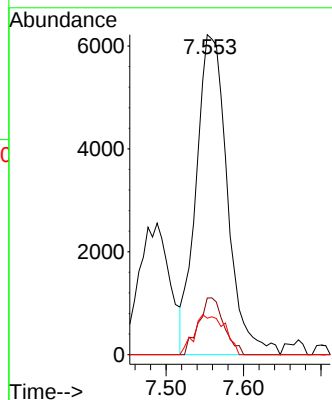
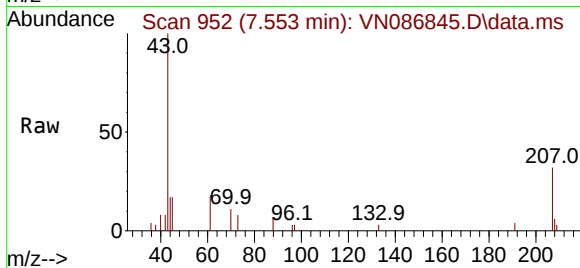
Tgt Ion: 43 Resp: 17411

Ion Ratio Lower Upper

43 100

61 14.5 11.6 17.4

70 12.2 9.4 14.0



#38

Carbon Tetrachloride

Concen: 5.782 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.135 min

Lab File: VN086845.D

Acq: 03 Jun 2025 16:09

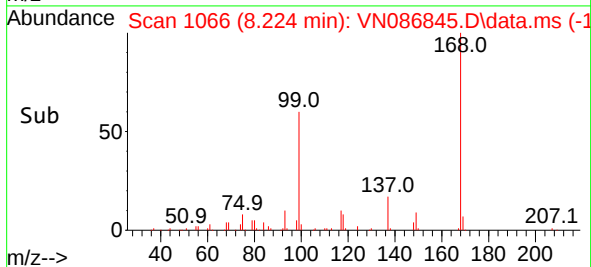
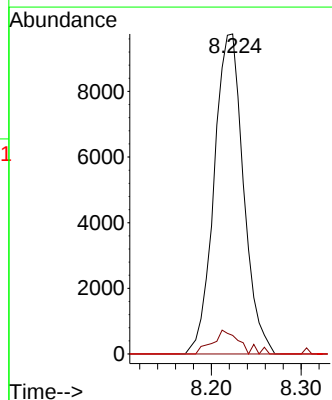
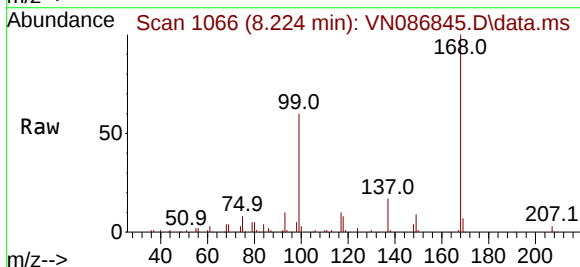
Tgt Ion: 117 Resp: 22177

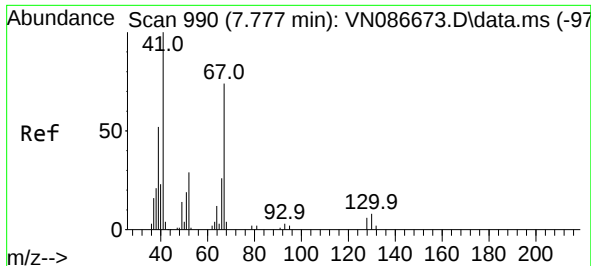
Ion Ratio Lower Upper

117 100

119 5.8 77.0 115.6#

121 0.0 25.0 37.6#

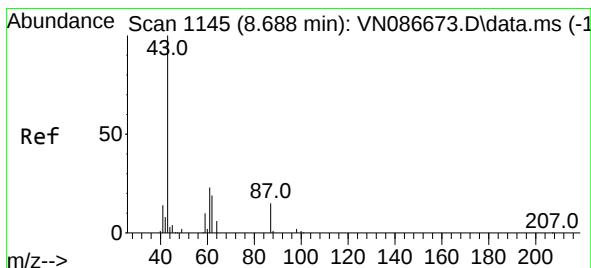
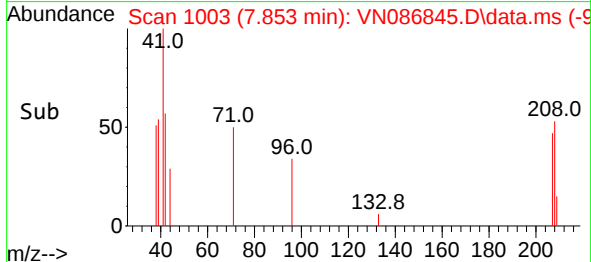
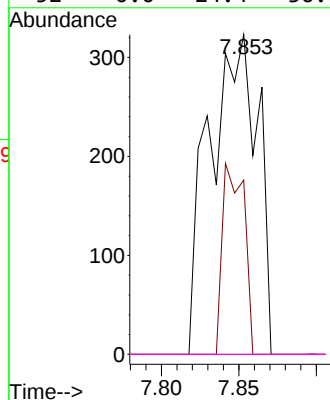
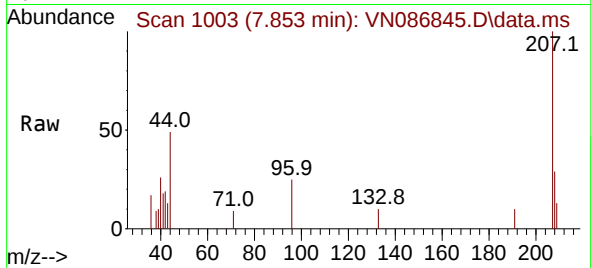




#41
Methacrylonitrile
Concen: 0.331 ug/l
RT: 7.853 min Scan# 1003
Delta R.T. 0.076 min
Lab File: VN086845.D
Acq: 03 Jun 2025 16:09

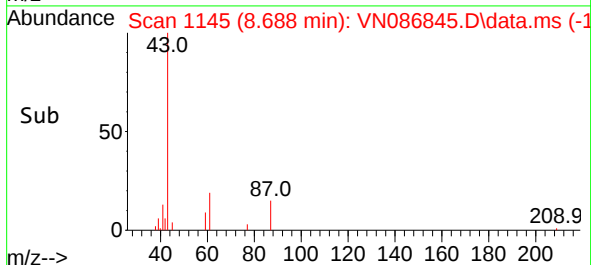
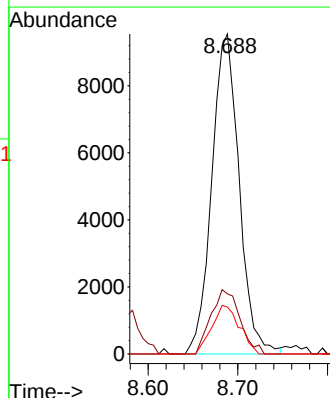
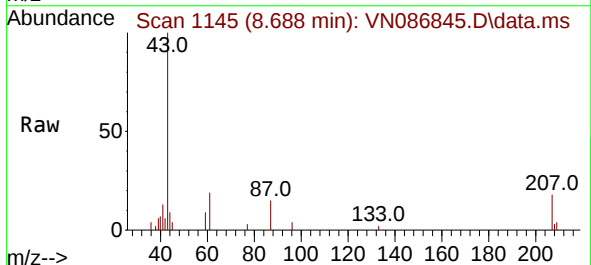
Instrument :
MSVOA_N
ClientSampleId :
PB168225ZHE#06

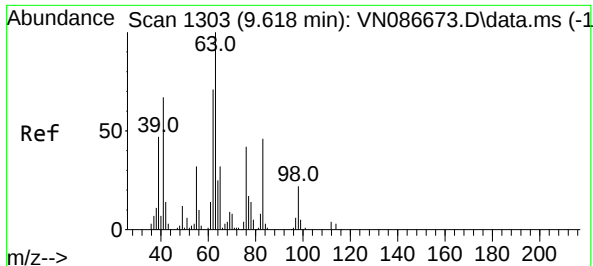
Tgt Ion:	41	Resp:	703
Ion	Ratio	Lower	Upper
41	100		
39	26.7	44.9	67.3#
67	0.0	63.4	95.0#
52	0.0	24.4	36.6#



#43
Isopropyl Acetate
Concen: 2.568 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. -0.000 min
Lab File: VN086845.D
Acq: 03 Jun 2025 16:09

Tgt Ion:	43	Resp:	20245
Ion	Ratio	Lower	Upper
43	100		
61	21.3	21.4	32.2#
87	15.3	11.1	16.7





#45

1,2-Dichloropropane

Concen: 0.653 ug/l

RT: 9.735 min Scan# 1323

Delta R.T. 0.118 min

Lab File: VN086845.D

Acq: 03 Jun 2025 16:09

Instrument :

MSVOA_N

ClientSampleId :

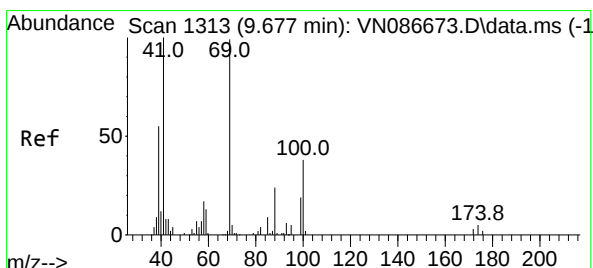
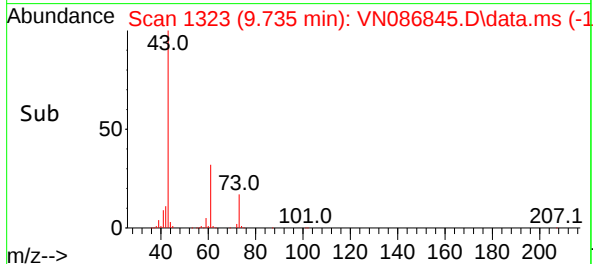
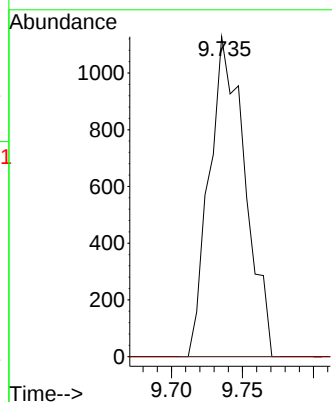
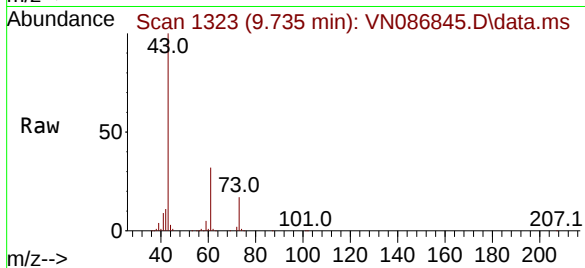
PB168225ZHE#06

Tgt Ion: 63 Resp: 1971

Ion Ratio Lower Upper

63 100

65 0.0 25.8 38.6#



#48

Methyl methacrylate

Concen: 35.140 ug/l

RT: 9.741 min Scan# 1324

Delta R.T. 0.065 min

Lab File: VN086845.D

Acq: 03 Jun 2025 16:09

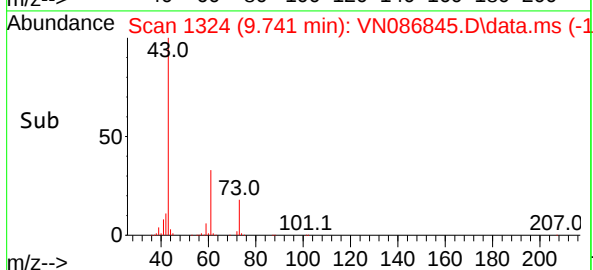
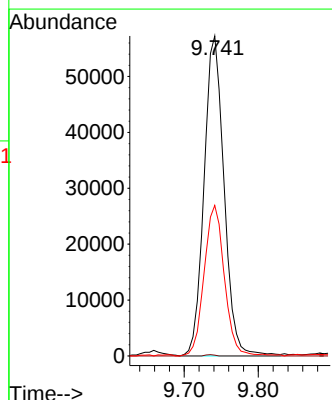
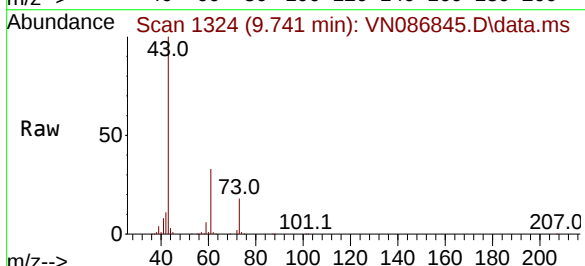
Tgt Ion: 41 Resp: 107348

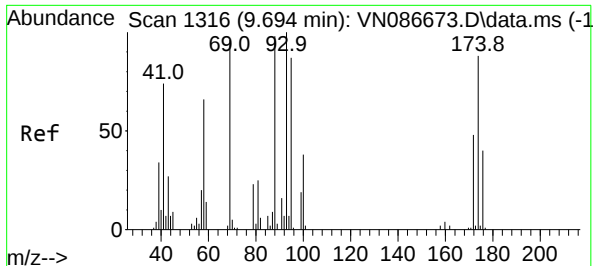
Ion Ratio Lower Upper

41 100

69 0.2 74.1 111.1#

39 47.8 44.1 66.1





#49

1,4-Dioxane

Concen: 3.571 ug/l

RT: 9.706 min Scan# 11

Delta R.T. 0.012 min

Lab File: VN086845.D

Acq: 03 Jun 2025 16:09

Instrument :

MSVOA_N

ClientSampleId :

PB168225ZHE#06

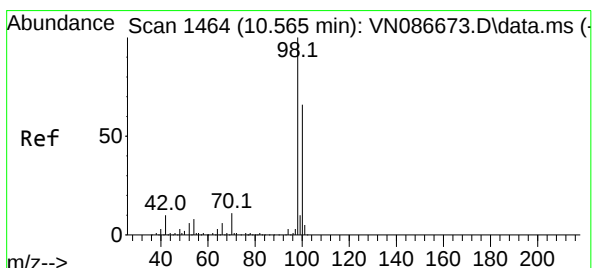
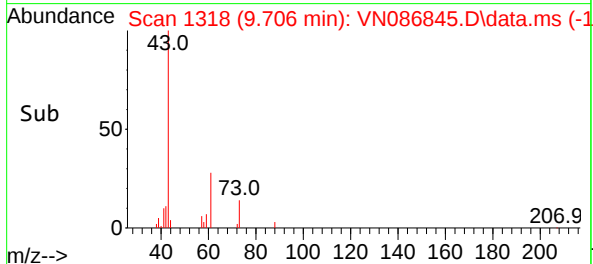
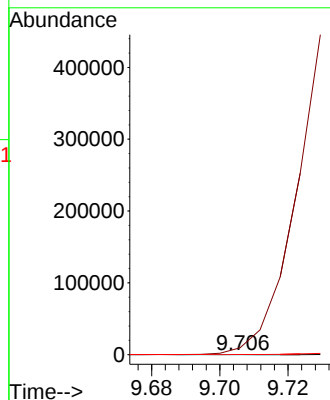
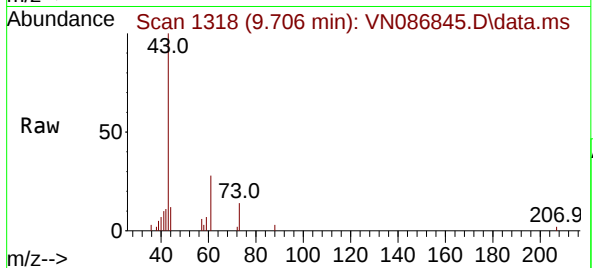
Tgt Ion: 88 Resp: 231

Ion Ratio Lower Upper

88 100

43 0.0 23.6 35.4#

58 0.0 55.3 82.9#



#50

Toluene-d8

Concen: 51.307 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.000 min

Lab File: VN086845.D

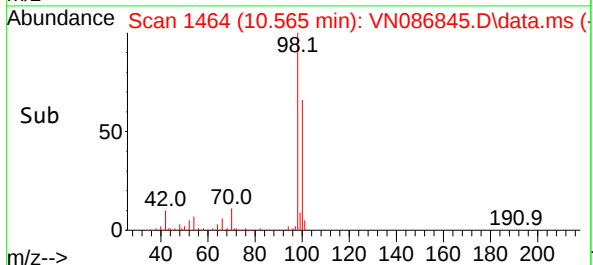
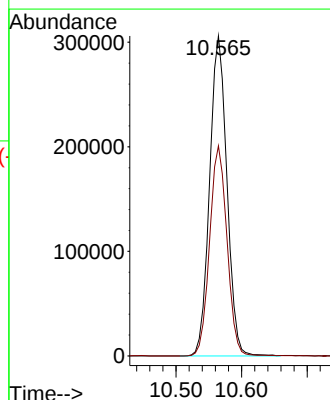
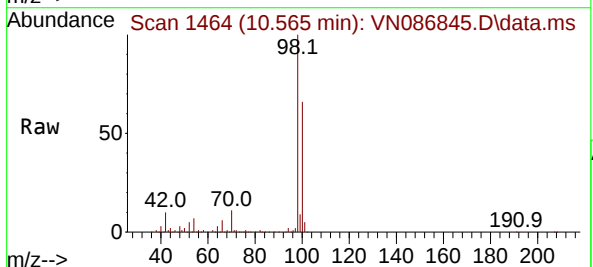
Acq: 03 Jun 2025 16:09

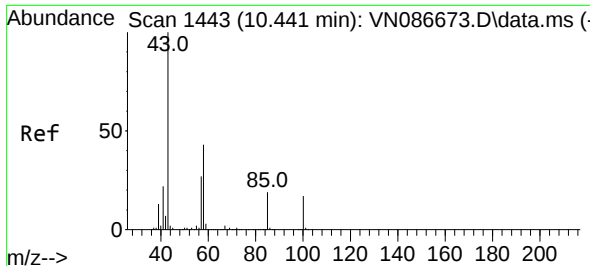
Tgt Ion: 98 Resp: 561160

Ion Ratio Lower Upper

98 100

100 66.0 52.9 79.3

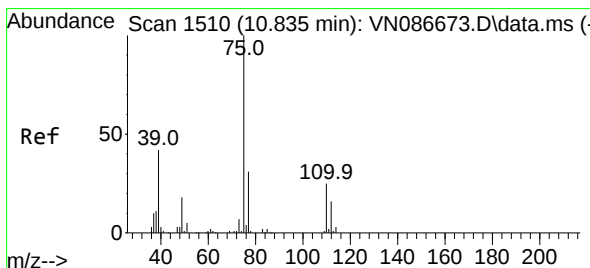
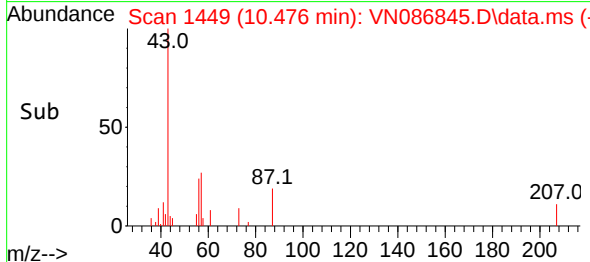
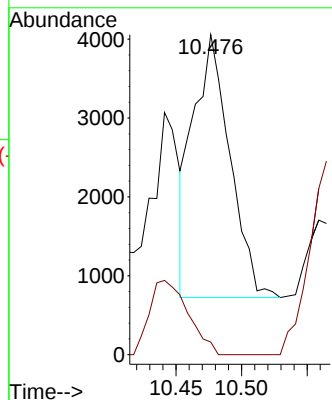
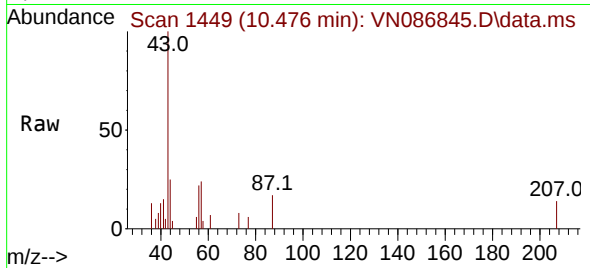




#51
4-Methyl-2-Pentanone
Concen: 1.641 ug/l
RT: 10.476 min Scan# 1449
Delta R.T. 0.035 min
Lab File: VN086845.D
Acq: 03 Jun 2025 16:09

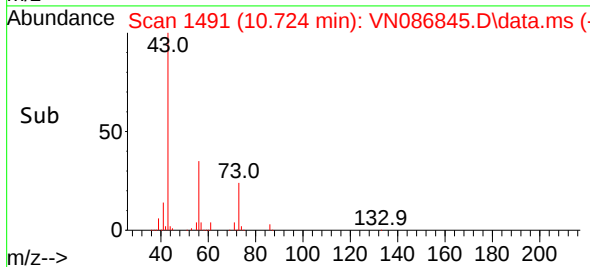
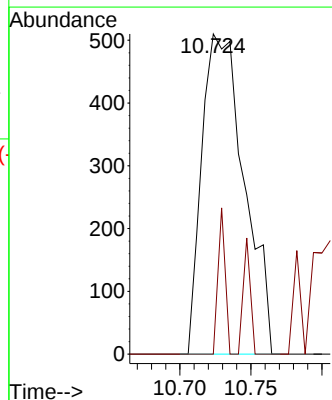
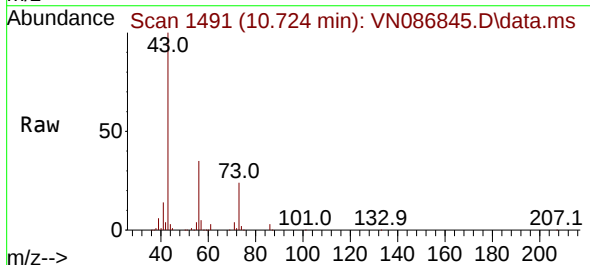
Instrument :
MSVOA_N
ClientSampleId :
PB168225ZHE#06

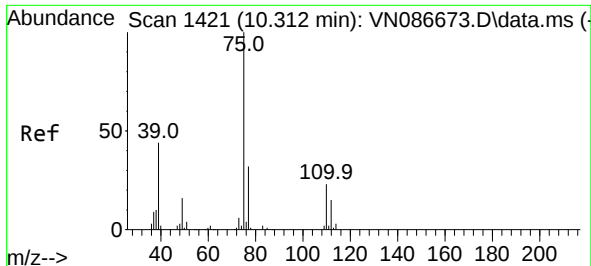
Tgt Ion: 43 Resp: 6525
Ion Ratio Lower Upper
43 100
58 0.0 33.9 50.9#



#53
t-1,3-Dichloropropene
Concen: 0.239 ug/l
RT: 10.724 min Scan# 1491
Delta R.T. -0.112 min
Lab File: VN086845.D
Acq: 03 Jun 2025 16:09

Tgt Ion: 75 Resp: 1060
Ion Ratio Lower Upper
75 100
77 0.0 25.2 37.8#

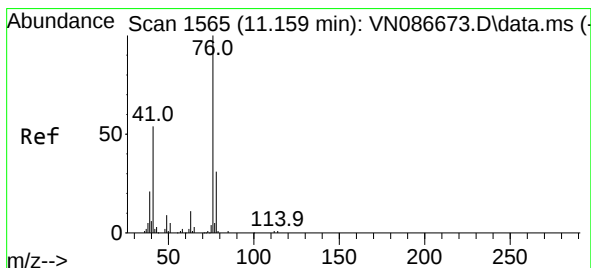
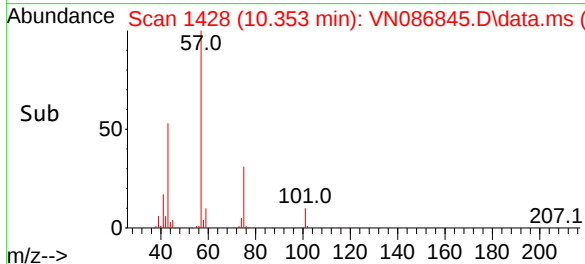
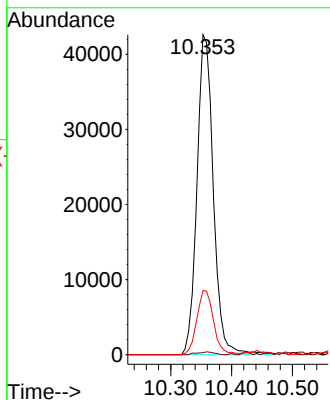
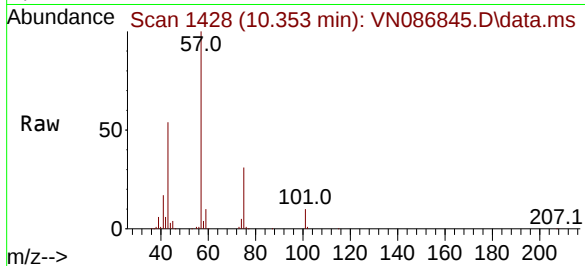




#54
cis-1,3-Dichloropropene
Concen: 16.476 ug/l
RT: 10.353 min Scan# 1428
Delta R.T. 0.041 min
Lab File: VN086845.D
Acq: 03 Jun 2025 16:09

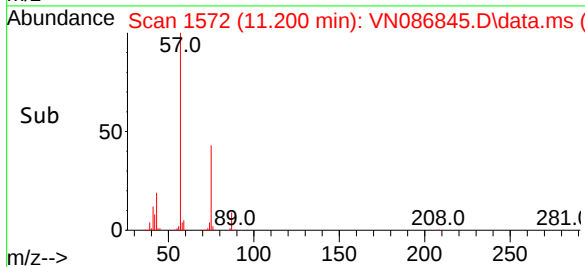
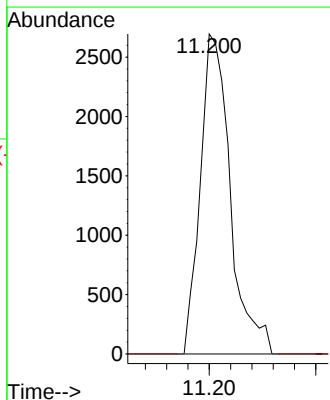
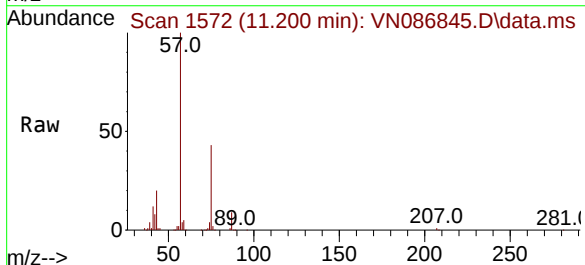
Instrument :
MSVOA_N
ClientSampleId :
PB168225ZHE#06

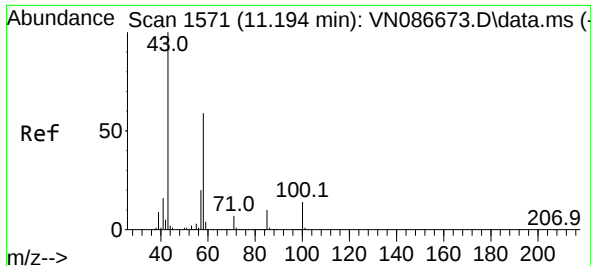
Tgt Ion: 75 Resp: 79873
Ion Ratio Lower Upper
75 100
77 0.6 25.3 37.9#
39 20.1 35.2 52.8#



#57
1,3-Dichloropropane
Concen: 1.039 ug/l
RT: 11.200 min Scan# 1572
Delta R.T. 0.041 min
Lab File: VN086845.D
Acq: 03 Jun 2025 16:09

Tgt Ion: 76 Resp: 5271
Ion Ratio Lower Upper
76 100
78 0.0 25.8 38.8#

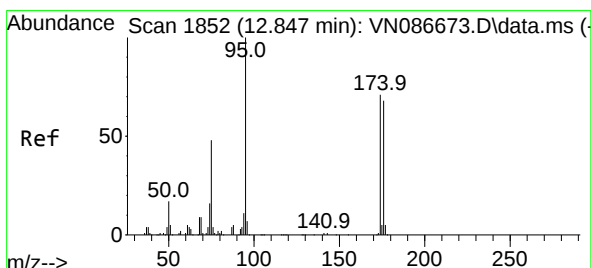
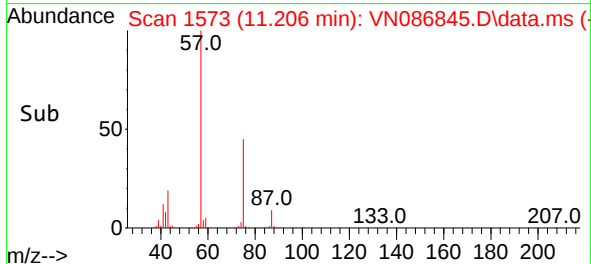
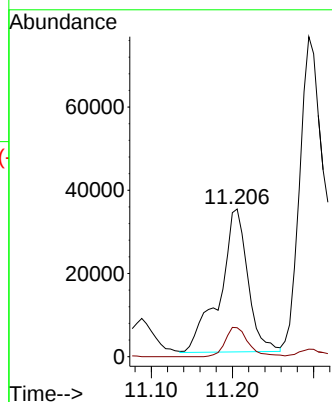
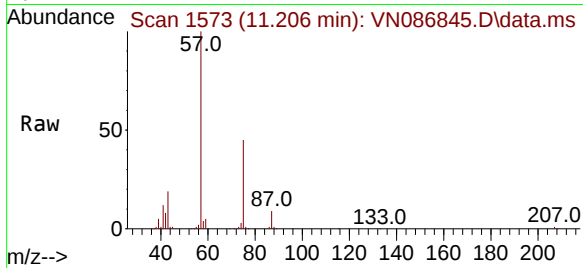




#59
2-Hexanone
Concen: 28.500 ug/l
RT: 11.206 min Scan# 1573
Delta R.T. 0.012 min
Lab File: VN086845.D
Acq: 03 Jun 2025 16:09

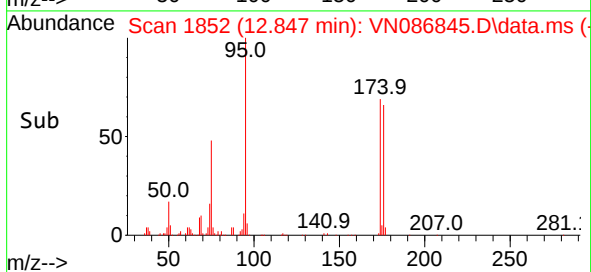
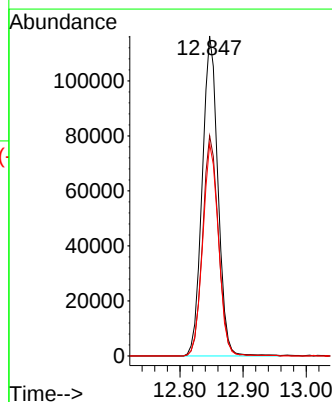
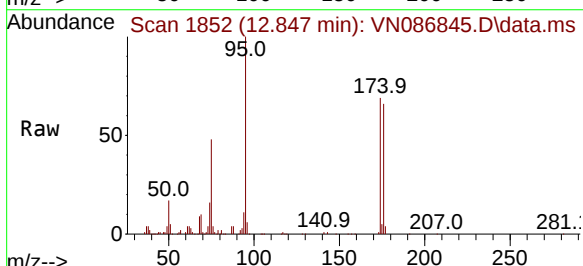
Instrument :
MSVOA_N
ClientSampleId :
PB168225ZHE#06

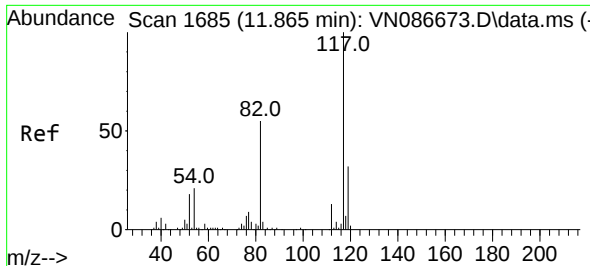
Tgt Ion: 43 Resp: 82742
Ion Ratio Lower Upper
43 100
58 17.0 29.8 89.5#



#62
4-Bromofluorobenzene
Concen: 51.990 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086845.D
Acq: 03 Jun 2025 16:09

Tgt Ion: 95 Resp: 200778
Ion Ratio Lower Upper
95 100
174 69.0 0.0 145.4
176 66.1 0.0 137.8

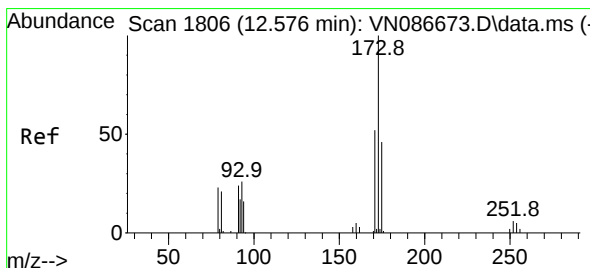
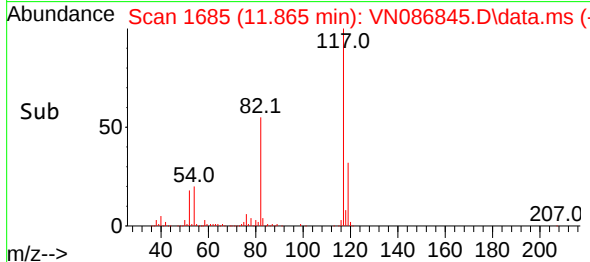
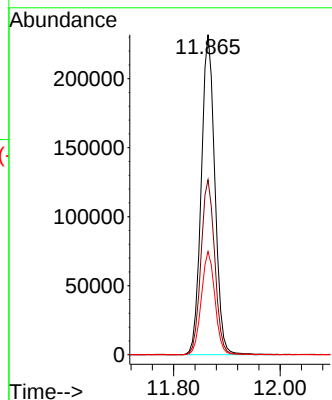
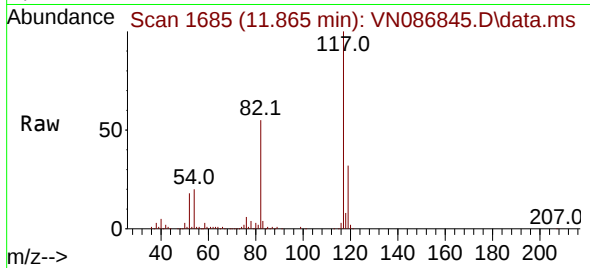




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1170
Delta R.T. -0.000 min
Lab File: VN086845.D
Acq: 03 Jun 2025 16:09

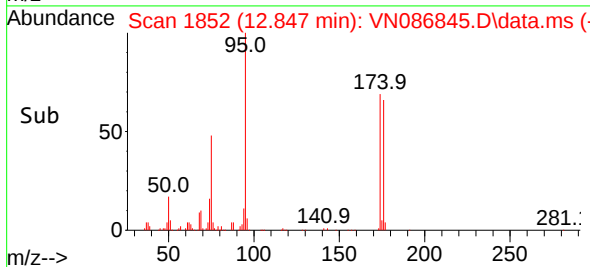
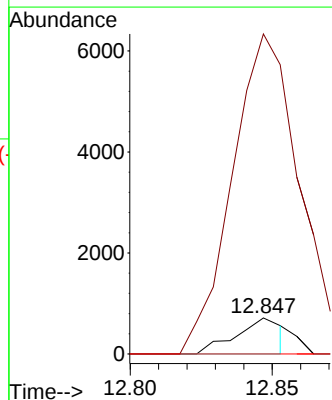
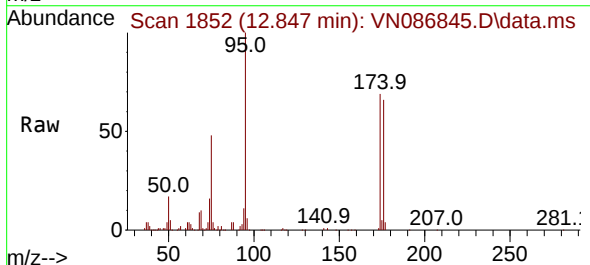
Instrument :
MSVOA_N
ClientSampleId :
PB168225ZHE#06

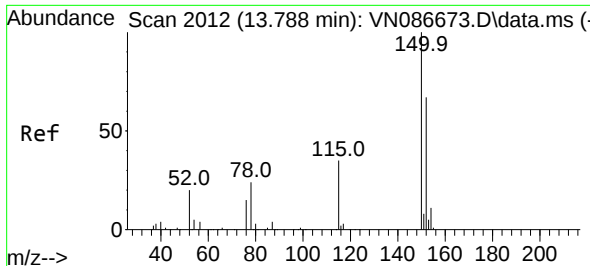
Tgt Ion:117 Resp: 410736
Ion Ratio Lower Upper
117 100
82 54.6 44.2 66.2
119 32.2 25.4 38.2



#71
Bromoform
Concen: 0.388 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.270 min
Lab File: VN086845.D
Acq: 03 Jun 2025 16:09

Tgt Ion:173 Resp: 802
Ion Ratio Lower Upper
173 100
175 993.4 23.4 70.2#
254 0.0 0.0 0.0

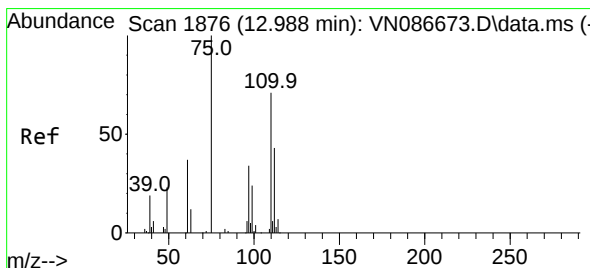
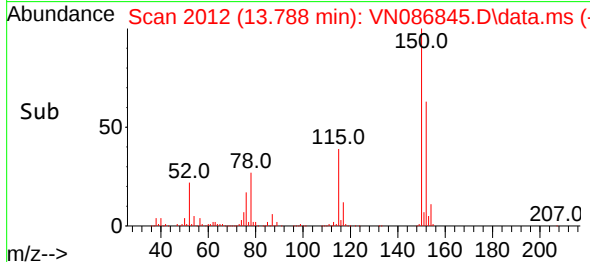
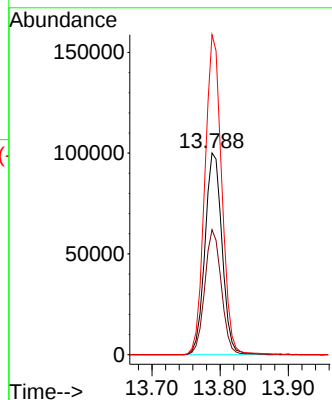
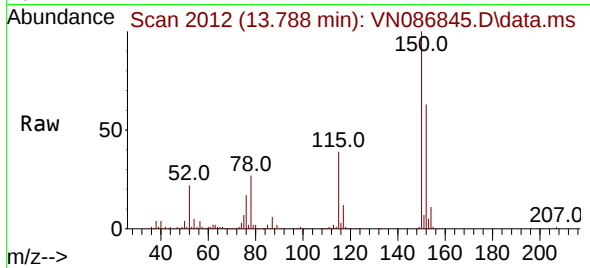




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.788 min Scan# 2012
 Delta R.T. -0.000 min
 Lab File: VN086845.D
 Acq: 03 Jun 2025 16:09

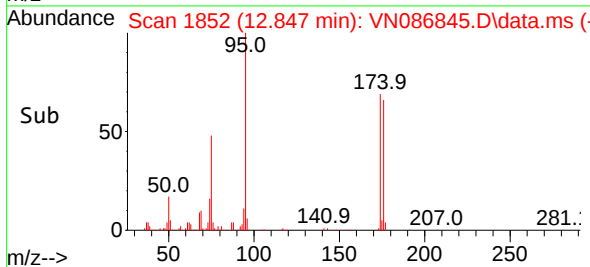
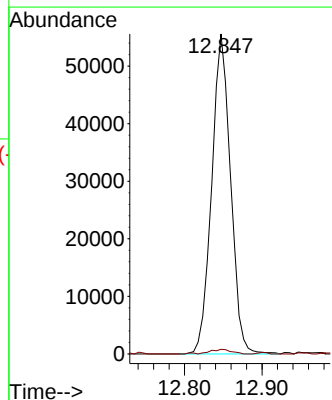
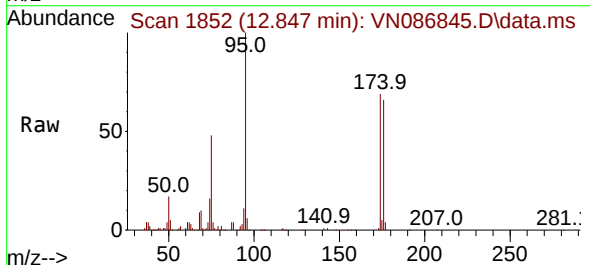
Instrument :
 MSVOA_N
 ClientSampleId :
 PB168225ZHE#06

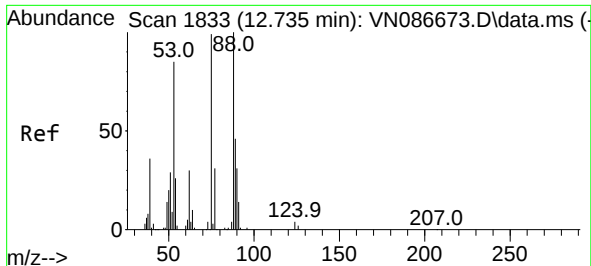
Tgt Ion:152 Resp: 174516
 Ion Ratio Lower Upper
 152 100
 115 60.3 30.0 90.1
 150 156.5 0.0 347.8



#76
 1,2,3-Trichloropropane
 Concen: 23.860 ug/l
 RT: 12.847 min Scan# 1852
 Delta R.T. -0.141 min
 Lab File: VN086845.D
 Acq: 03 Jun 2025 16:09

Tgt Ion: 75 Resp: 94173
 Ion Ratio Lower Upper
 75 100
 77 1.6 96.0 288.1#

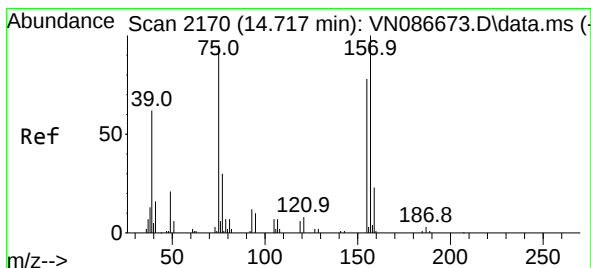
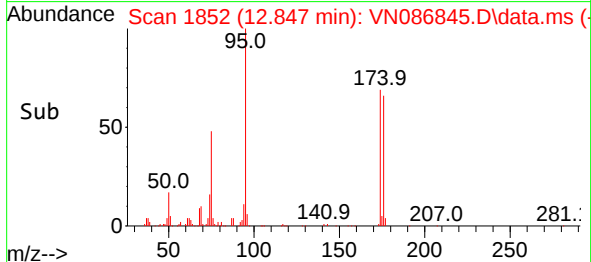
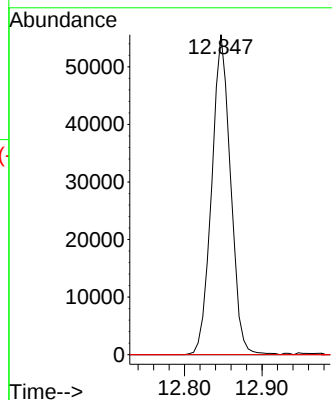
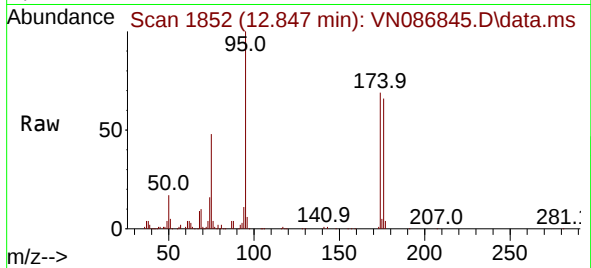




#81
 trans-1,4-Dichloro-2-butene
 Concen: 60.215 ug/l
 RT: 12.847 min Scan# 11
 Delta R.T. 0.112 min
 Lab File: VN086845.D
 Acq: 03 Jun 2025 16:09

Instrument :
 MSVOA_N
 ClientSampleId :
 PB168225ZHE#06

Tgt Ion: 75 Resp: 94173
 Ion Ratio Lower Upper
 75 100
 53 0.0 70.4 105.6#
 89 0.0 32.4 48.6#



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 0.204 ug/l
 RT: 14.717 min Scan# 2170
 Delta R.T. -0.000 min
 Lab File: VN086845.D
 Acq: 03 Jun 2025 16:09

Tgt Ion: 75 Resp: 140
 Ion Ratio Lower Upper
 75 100
 155 0.0 40.5 121.5#
 157 0.0 53.6 160.8#

