

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051925\
 Data File : VN086684.D
 Acq On : 19 May 2025 13:02
 Operator : JC\MD
 Sample : PB168034ZHE#01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB168034ZHE#01

Quant Time: May 20 03:17:37 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)

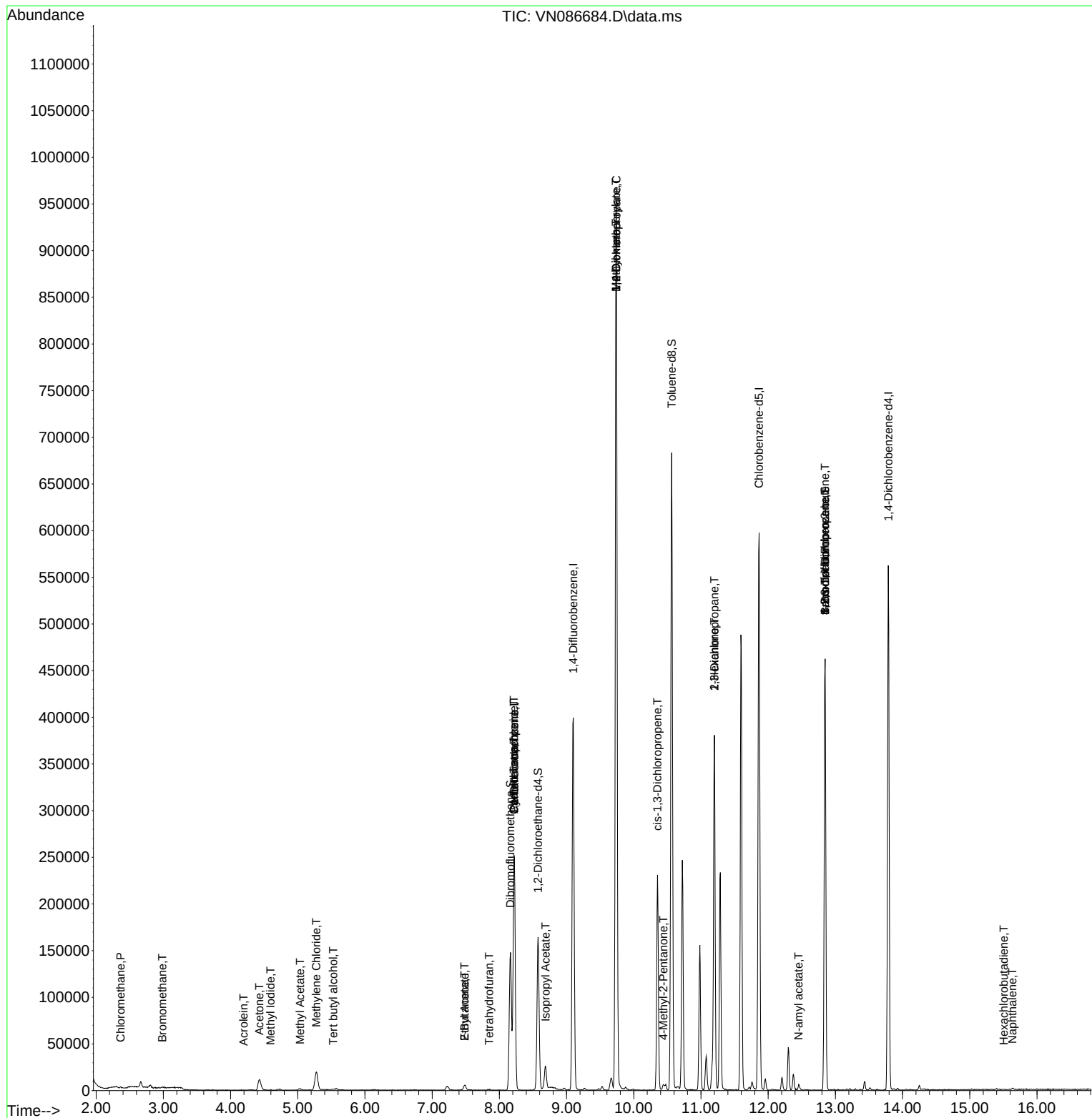
Internal Standards						
1) Pentafluorobenzene	8.224	168	189483	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	367732	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	364983	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	155624	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	133032	50.808	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 101.620%			
35) Dibromofluoromethane	8.165	113	110327	50.378	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 100.760%			
50) Toluene-d8	10.565	98	479232	52.805	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 105.620%			
62) 4-Bromofluorobenzene	12.847	95	173495	54.141	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 108.280%			
Target Compounds						Qvalue
3) Chloromethane	2.365	50	1120	0.362	ug/l #	87
5) Bromomethane	2.983	94	527	0.329	ug/l #	78
10) Methyl Iodide	4.595	142	509	0.206	ug/l #	90
11) Tert butyl alcohol	5.530	59	889	1.864	ug/l #	73
13) Acrolein	4.195	56	116	0.228	ug/l #	15
16) Acetone	4.430	43	23757	24.256	ug/l	98
18) Methyl Acetate	5.036	43	3198	1.167	ug/l #	64
20) Methylene Chloride	5.277	84	16350	6.326	ug/l	98
25) 2-Butanone	7.483	43	9671	6.390	ug/l	98
29) Tetrahydrofuran	7.847	42	1022	1.035	ug/l #	35
31) Cyclohexane	8.218	56	4102	1.044	ug/l #	1
36) 1,1-Dichloropropene	8.218	75	15247	4.720	ug/l #	49
37) Ethyl Acetate	7.483	43	9671	2.964	ug/l #	67
38) Carbon Tetrachloride	8.218	117	19369	6.085	ug/l #	16
43) Isopropyl Acetate	8.688	43	31850	4.869	ug/l #	86
45) 1,2-Dichloropropane	9.741	63	1161	0.464	ug/l #	42
48) Methyl methacrylate	9.735	41	84939	33.508	ug/l #	36
49) 1,4-Dioxane	9.735	88	53	0.987	ug/l #	1
51) 4-Methyl-2-Pentanone	10.441	43	4851	1.471	ug/l	90
54) cis-1,3-Dichloropropene	10.353	75	44053	10.951	ug/l #	59
57) 1,3-Dichloropropane	11.200	76	3976	0.945	ug/l #	42
59) 2-Hexanone	11.200	43	74801	31.051	ug/l #	44
71) Bromoform	12.847	173	849	0.462	ug/l #	1
74) N-amyl acetate	12.453	43	4593	0.915	ug/l #	42
76) 1,2,3-Trichloropropane	12.847	75	86255	24.507	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	86255	61.848	ug/l #	15
94) Hexachlorobutadiene	15.506	225	302	0.346	ug/l #	17
95) Naphthalene	15.635	128	2117	0.290	ug/l #	84

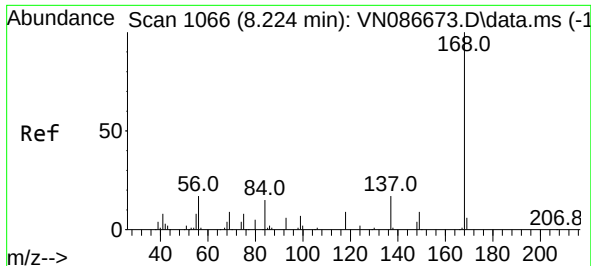
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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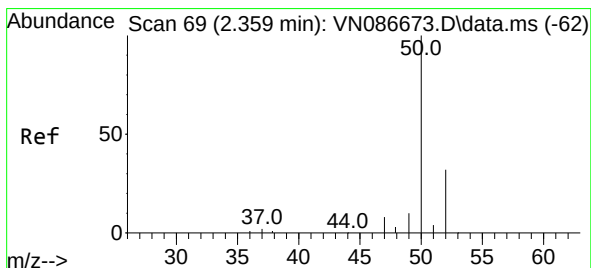
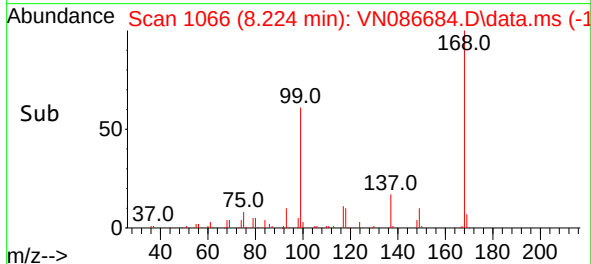
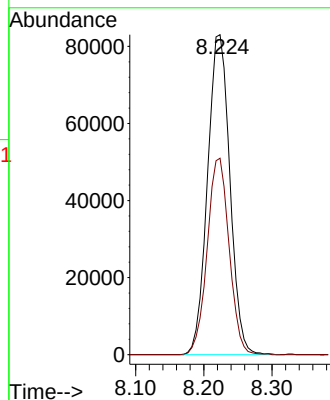
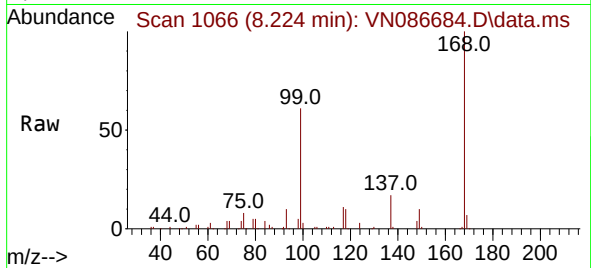




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN086684.D
Acq: 19 May 2025 13:02

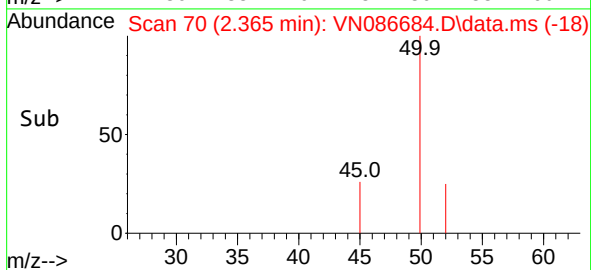
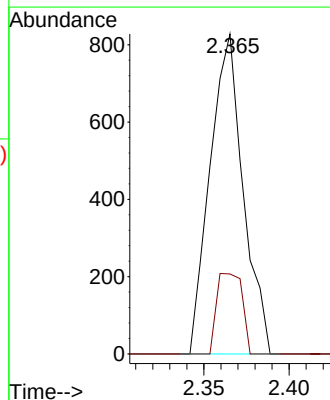
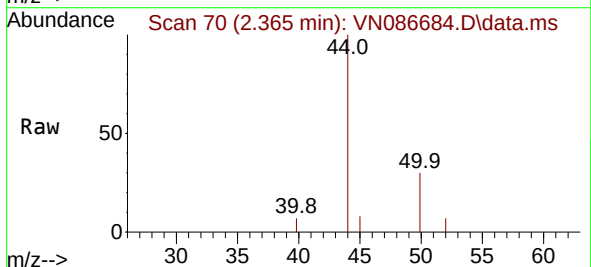
Instrument :
MSVOA_N
ClientSampleId :
PB168034ZHE#01

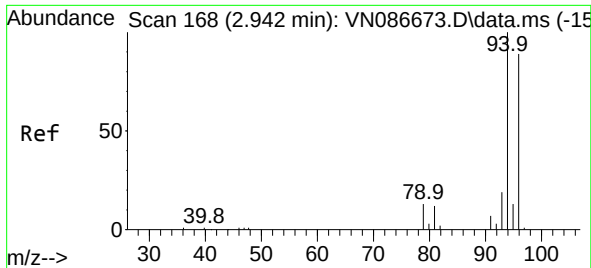
Tgt Ion:168 Resp: 189483
Ion Ratio Lower Upper
168 100
99 61.4 47.0 70.4



#3
Chloromethane
Concen: 0.362 ug/l
RT: 2.365 min Scan# 70
Delta R.T. 0.006 min
Lab File: VN086684.D
Acq: 19 May 2025 13:02

Tgt Ion: 50 Resp: 1120
Ion Ratio Lower Upper
50 100
52 25.0 25.9 38.9#





#5

Bromomethane

Concen: 0.329 ug/l

RT: 2.983 min Scan# 11

Delta R.T. 0.041 min

Lab File: VN086684.D

Acq: 19 May 2025 13:02

Instrument :

MSVOA_N

ClientSampleId :

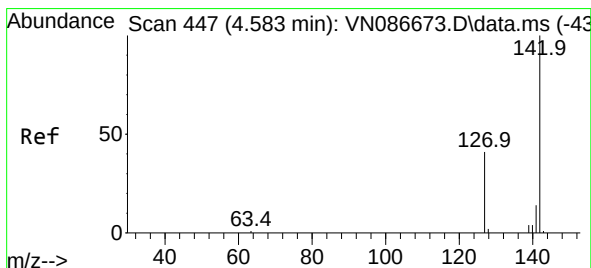
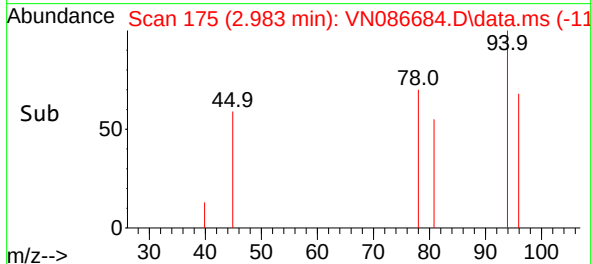
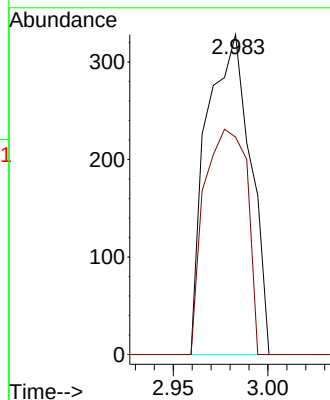
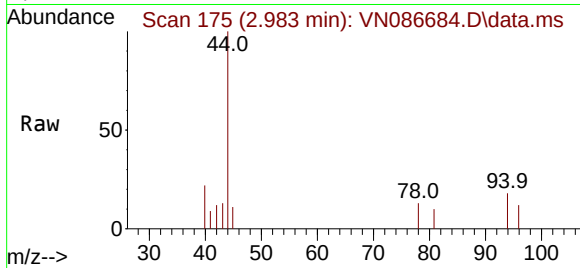
PB168034ZHE#01

Tgt Ion: 94 Resp: 527

Ion Ratio Lower Upper

94 100

96 68.0 71.2 106.8#



#10

Methyl Iodide

Concen: 0.206 ug/l

RT: 4.595 min Scan# 449

Delta R.T. 0.012 min

Lab File: VN086684.D

Acq: 19 May 2025 13:02

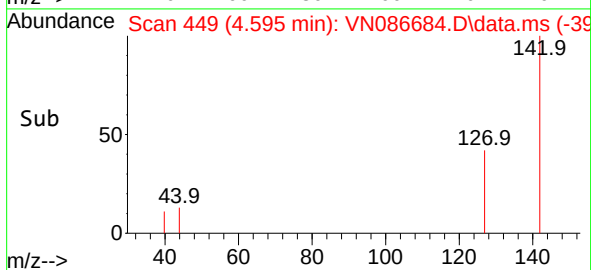
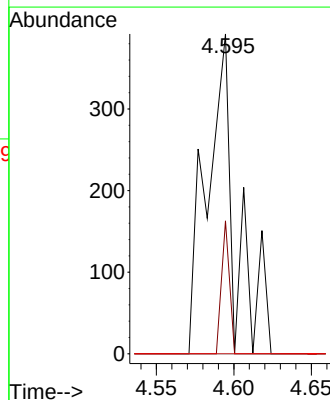
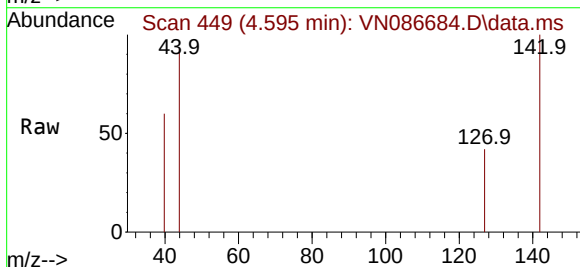
Tgt Ion:142 Resp: 509

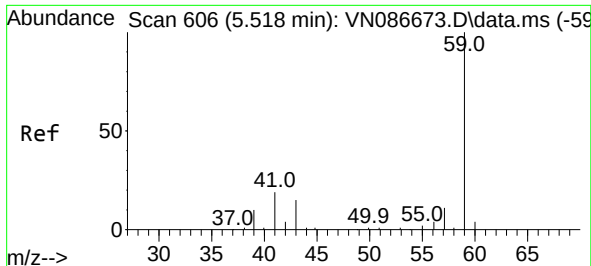
Ion Ratio Lower Upper

142 100

127 41.6 32.4 48.6

141 0.0 11.4 17.2#

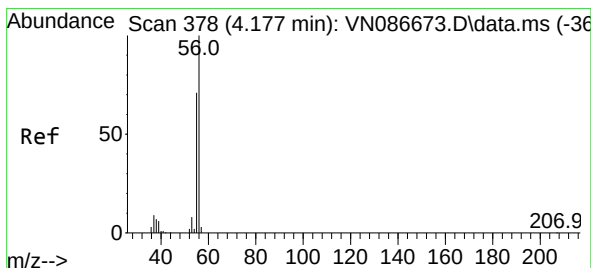
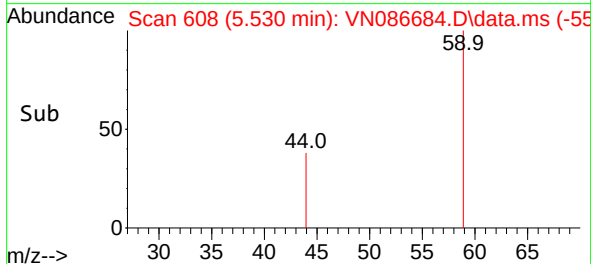
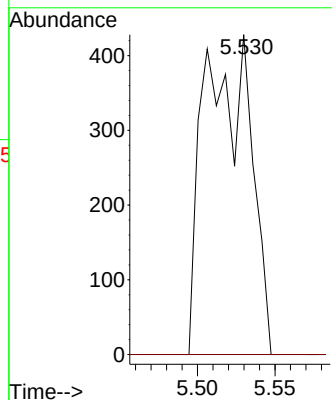
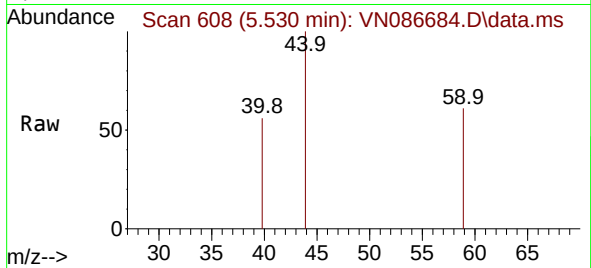




#11
Tert butyl alcohol
Concen: 1.864 ug/l
RT: 5.530 min Scan# 606
Delta R.T. 0.012 min
Lab File: VN086684.D
Acq: 19 May 2025 13:02

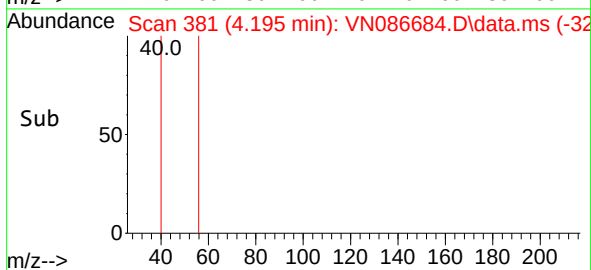
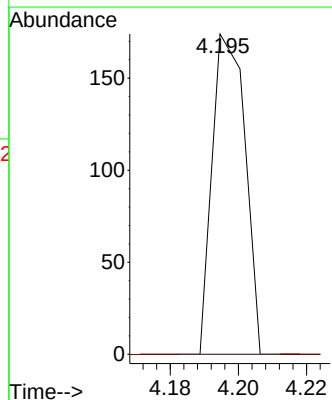
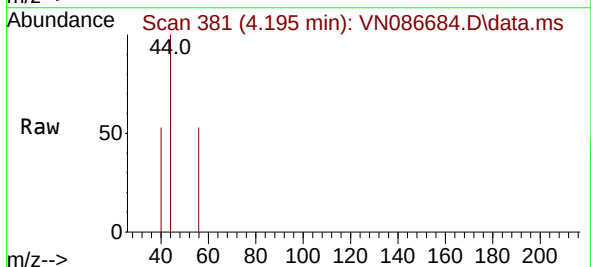
Instrument :
MSVOA_N
ClientSampleId :
PB168034ZHE#01

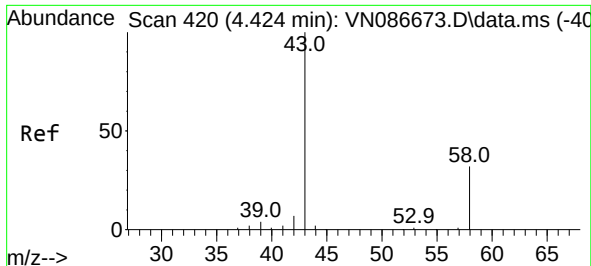
Tgt Ion: 59 Resp: 889
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.2#



#13
Acrolein
Concen: 0.228 ug/l
RT: 4.195 min Scan# 381
Delta R.T. 0.018 min
Lab File: VN086684.D
Acq: 19 May 2025 13:02

Tgt Ion: 56 Resp: 116
Ion Ratio Lower Upper
56 100
55 0.0 55.7 83.5#





#16

Acetone

Concen: 24.256 ug/l

RT: 4.430 min Scan# 41

Delta R.T. 0.006 min

Lab File: VN086684.D

Acq: 19 May 2025 13:02

Instrument :

MSVOA_N

ClientSampleId :

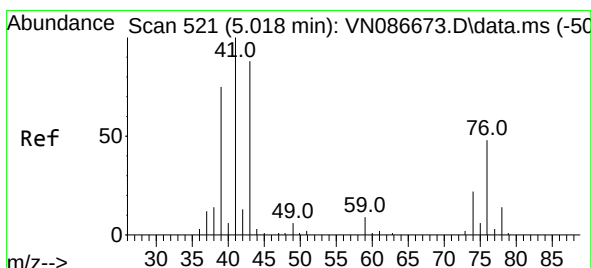
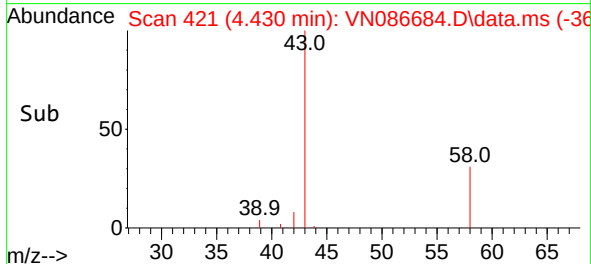
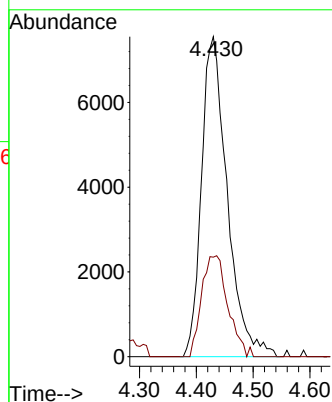
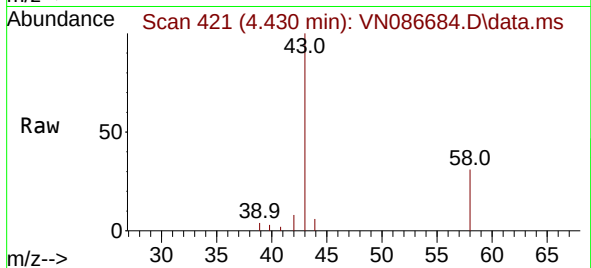
PB168034ZHE#01

Tgt Ion: 43 Resp: 23757

Ion Ratio Lower Upper

43 100

58 31.1 25.8 38.6



#18

Methyl Acetate

Concen: 1.167 ug/l

RT: 5.036 min Scan# 524

Delta R.T. 0.018 min

Lab File: VN086684.D

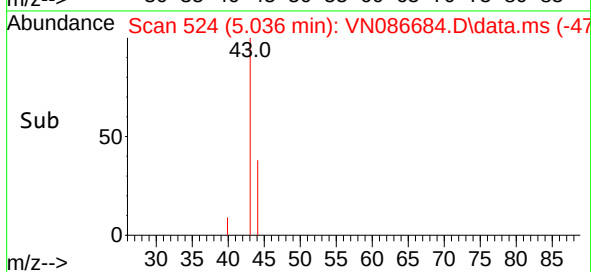
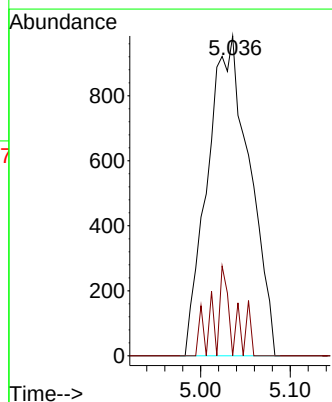
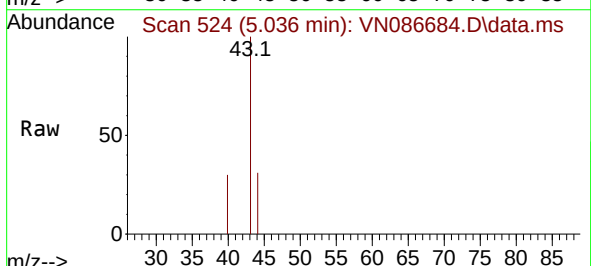
Acq: 19 May 2025 13:02

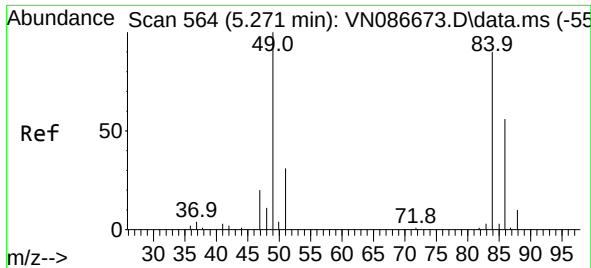
Tgt Ion: 43 Resp: 3198

Ion Ratio Lower Upper

43 100

74 7.3 20.5 30.7#

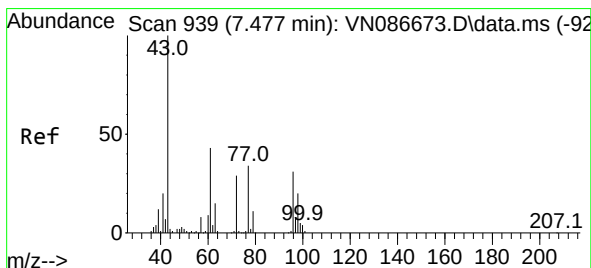
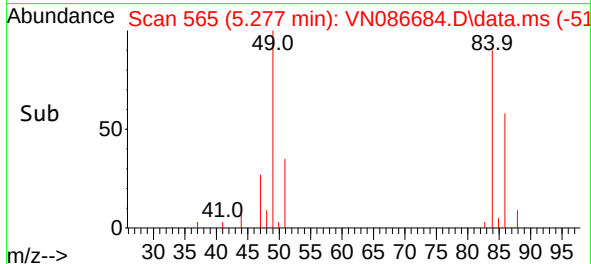
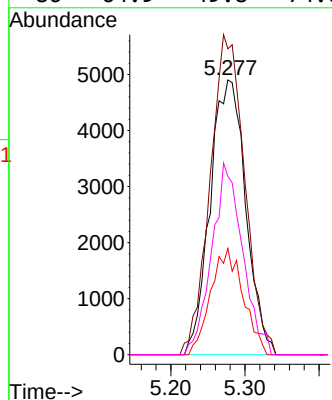
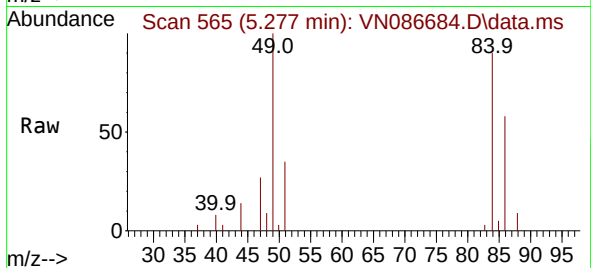




#20
Methylene Chloride
Concen: 6.326 ug/l
RT: 5.277 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN086684.D
Acq: 19 May 2025 13:02

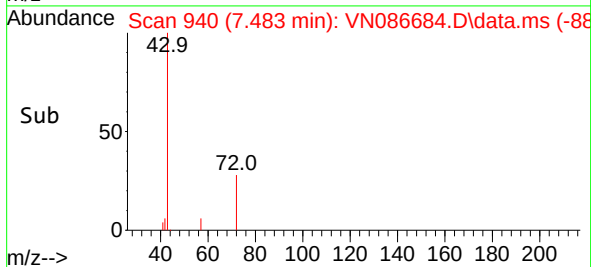
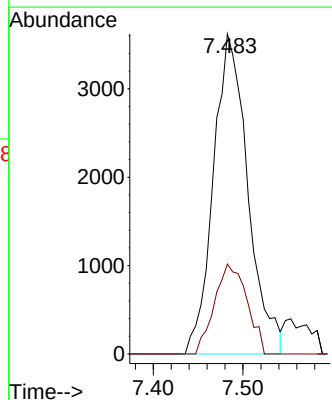
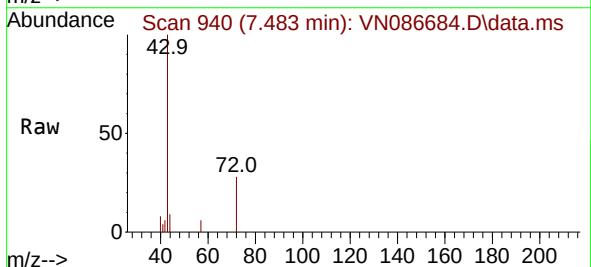
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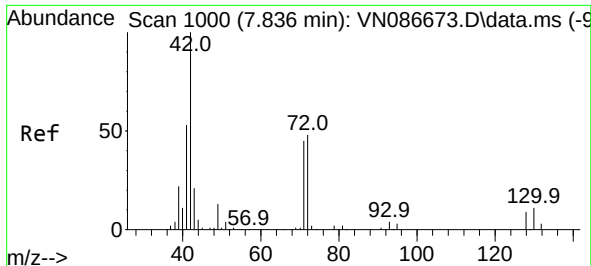
Tgt Ion: 84	Resp: 16350		
Ion	Ratio	Lower	Upper
84	100		
49	111.4	88.8	133.2
51	38.7	27.8	41.6
86	64.9	49.8	74.6



#25
2-Butanone
Concen: 6.390 ug/l
RT: 7.483 min Scan# 940
Delta R.T. 0.006 min
Lab File: VN086684.D
Acq: 19 May 2025 13:02

Tgt Ion: 43	Resp: 9671		
Ion Ratio	Lower	Upper	
43 100			
72 28.1	23.1	34.7	





#29

Tetrahydrofuran

Concen: 1.035 ug/l

RT: 7.847 min Scan# 1022

Delta R.T. 0.012 min

Lab File: VN086684.D

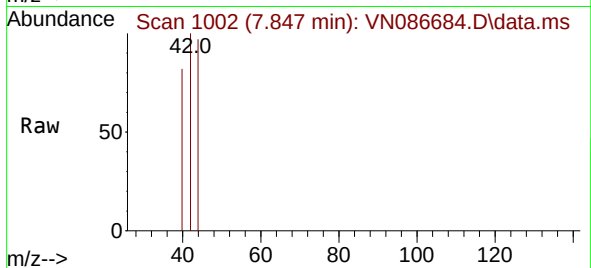
Acq: 19 May 2025 13:02

Instrument :

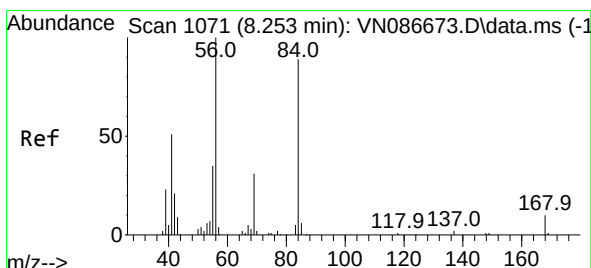
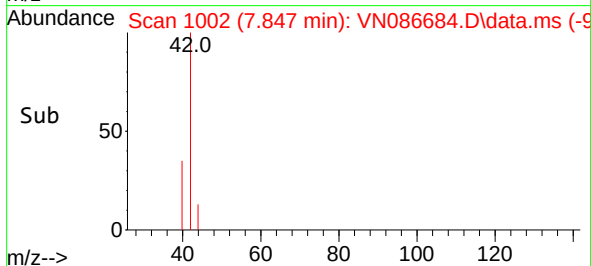
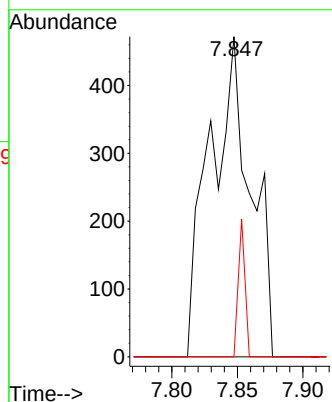
MSVOA_N

ClientSampleId :

PB168034ZHE#01



Tgt Ion:	42	Resp:	1022
Ion Ratio	100	Lower	Upper
42	100		
72	0.0	38.7	58.1#
71	7.0	36.2	54.4#



#31

Cyclohexane

Concen: 1.044 ug/l

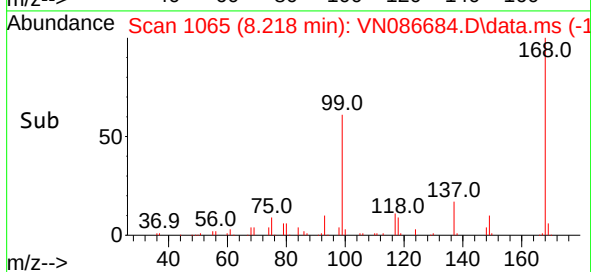
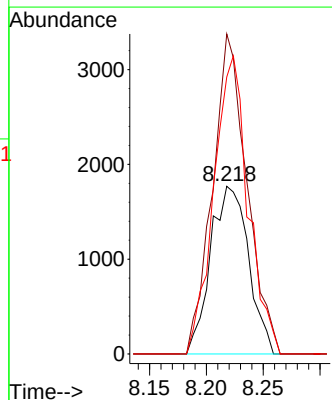
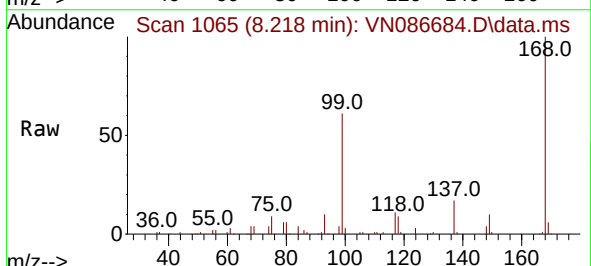
RT: 8.218 min Scan# 1065

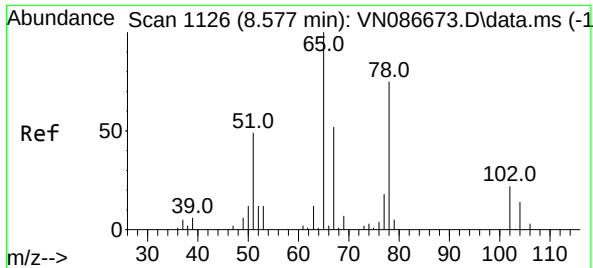
Delta R.T. -0.035 min

Lab File: VN086684.D

Acq: 19 May 2025 13:02

Tgt Ion:	56	Resp:	4102
Ion Ratio	100	Lower	Upper
56	100		
69	190.7	25.0	37.6#
84	165.1	71.0	106.4#





#33

1,2-Dichloroethane-d4

Concen: 50.808 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. -0.000 min

Lab File: VN086684.D

Acq: 19 May 2025 13:02

Instrument :

MSVOA_N

ClientSampleId :

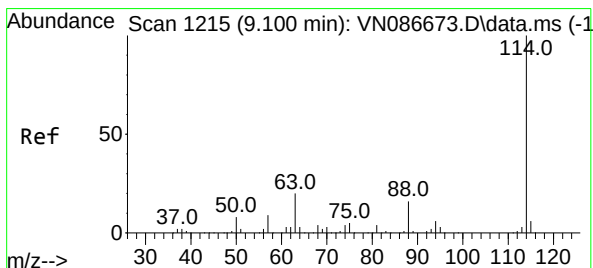
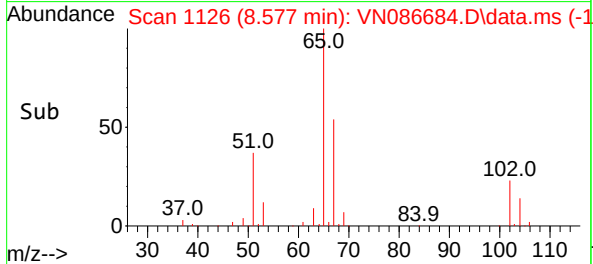
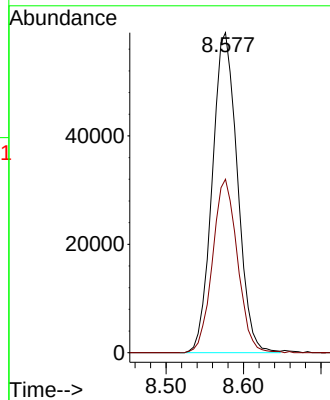
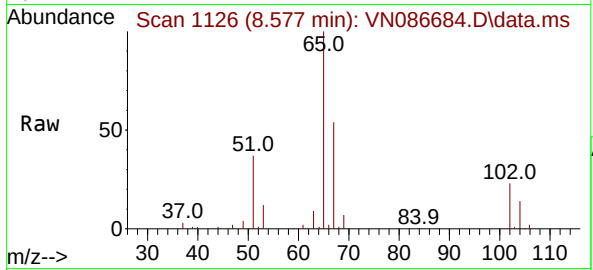
PB168034ZHE#01

Tgt Ion: 65 Resp: 133032

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: VN086684.D

Acq: 19 May 2025 13:02

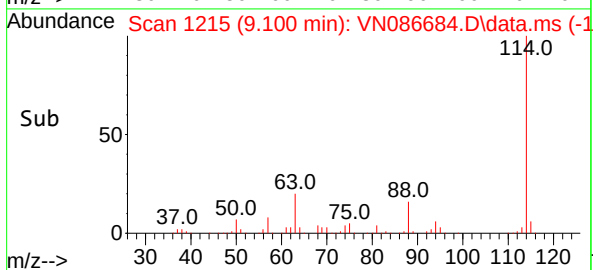
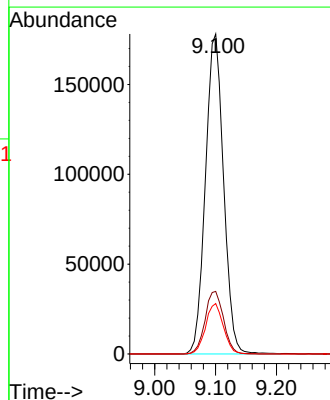
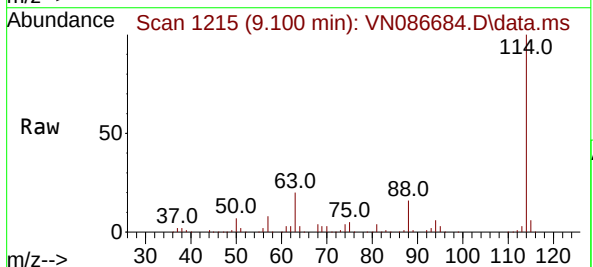
Tgt Ion: 114 Resp: 367732

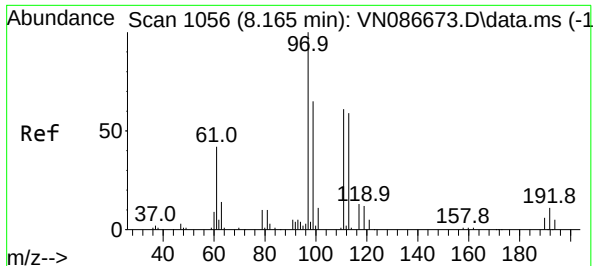
Ion Ratio Lower Upper

114 100

63 19.5 0.0 40.2

88 15.8 0.0 31.2





#35

Dibromofluoromethane

Concen: 50.378 ug/l

RT: 8.165 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086684.D

Acq: 19 May 2025 13:02

Instrument :

MSVOA_N

ClientSampleId :

PB168034ZHE#01

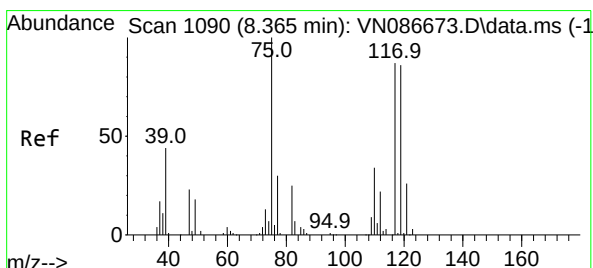
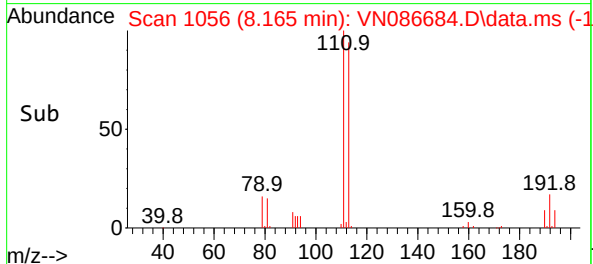
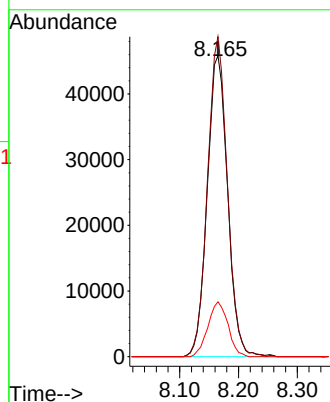
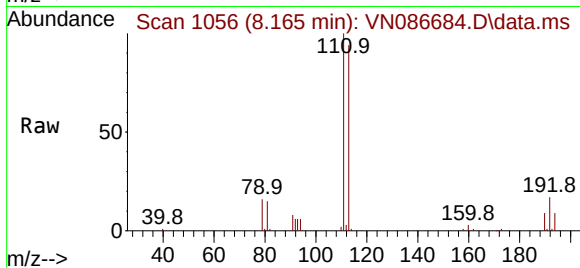
Tgt Ion:113 Resp: 110327

Ion Ratio Lower Upper

113 100

111 103.3 82.2 123.2

192 18.0 13.8 20.8



#36

1,1-Dichloropropene

Concen: 4.720 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.147 min

Lab File: VN086684.D

Acq: 19 May 2025 13:02

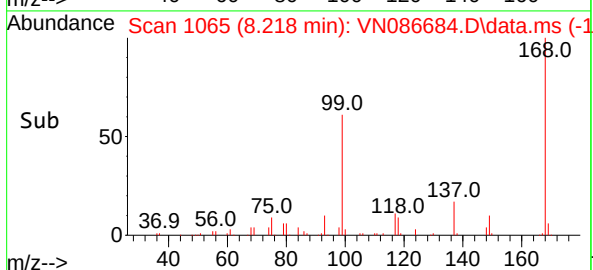
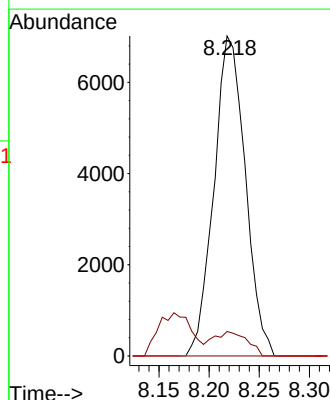
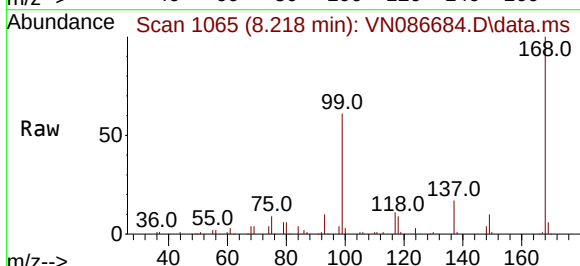
Tgt Ion: 75 Resp: 15247

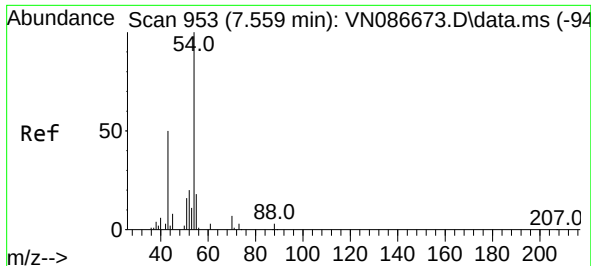
Ion Ratio Lower Upper

75 100

110 8.2 17.5 52.5#

77 0.0 25.1 37.7#





#37

Ethyl Acetate

Concen: 2.964 ug/l

RT: 7.483 min Scan# 94

Delta R.T. -0.076 min

Lab File: VN086684.D

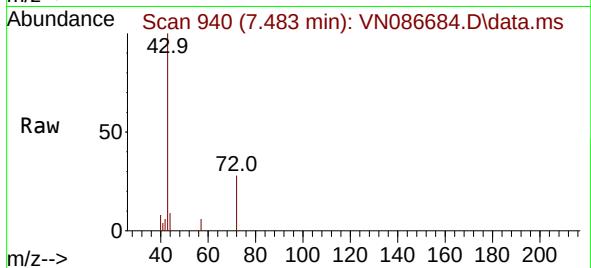
Acq: 19 May 2025 13:02

Instrument :

MSVOA_N

ClientSampleId :

PB168034ZHE#01



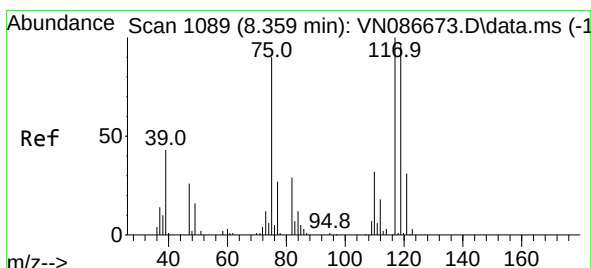
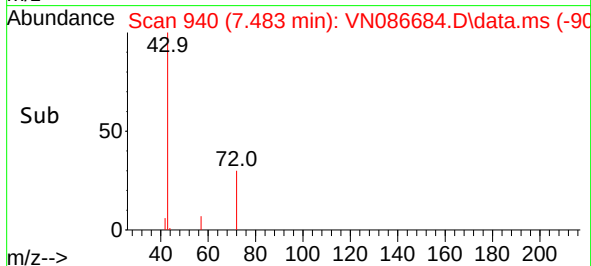
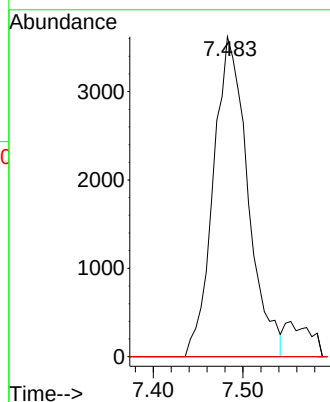
Tgt Ion: 43 Resp: 9671

Ion Ratio Lower Upper

43 100

61 0.0 11.6 17.4#

70 0.0 9.4 14.0#



#38

Carbon Tetrachloride

Concen: 6.085 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.141 min

Lab File: VN086684.D

Acq: 19 May 2025 13:02

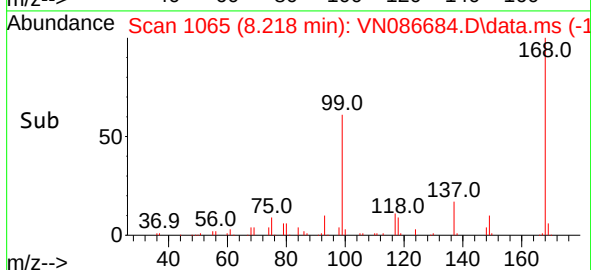
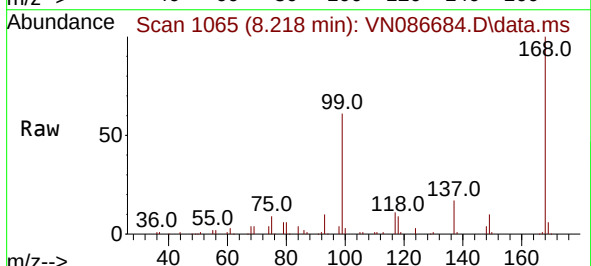
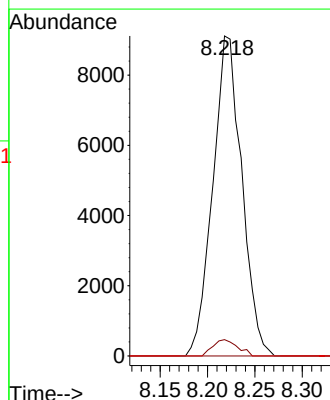
Tgt Ion: 117 Resp: 19369

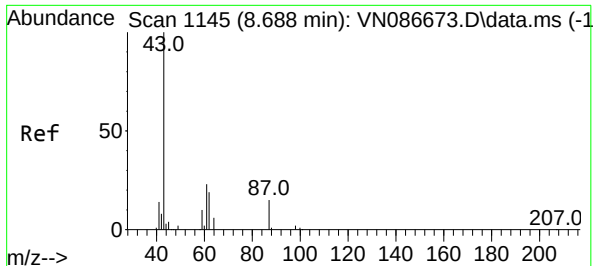
Ion Ratio Lower Upper

117 100

119 5.1 77.0 115.6#

121 0.0 25.0 37.6#

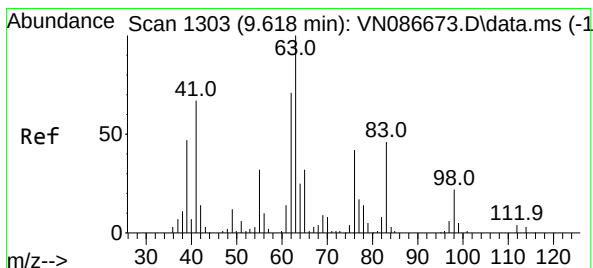
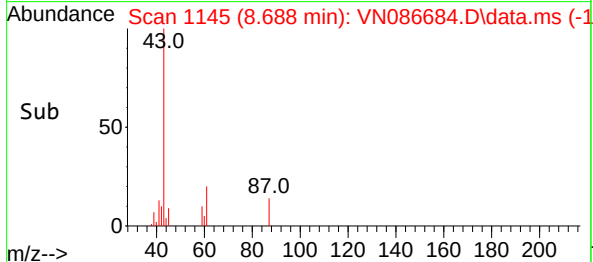
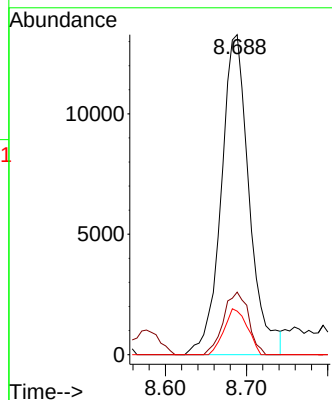
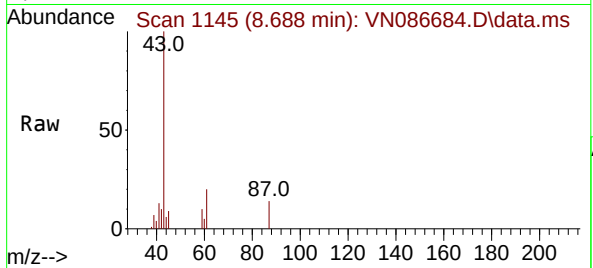




#43
Isopropyl Acetate
Concen: 4.869 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. -0.000 min
Lab File: VN086684.D
Acq: 19 May 2025 13:02

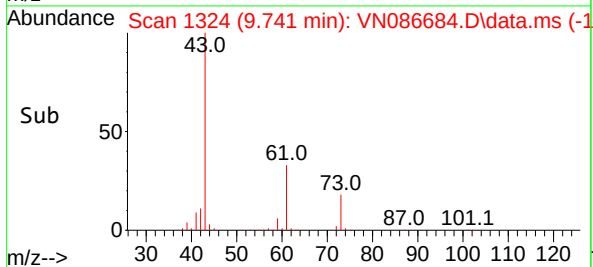
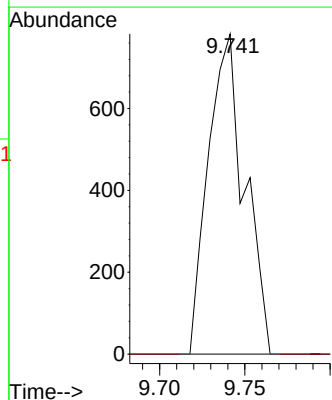
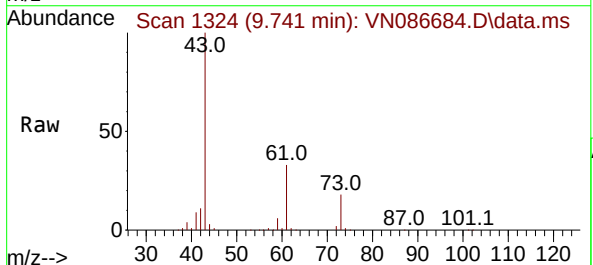
Instrument : MSVOA_N
ClientSampleId : PB168034ZHE#01

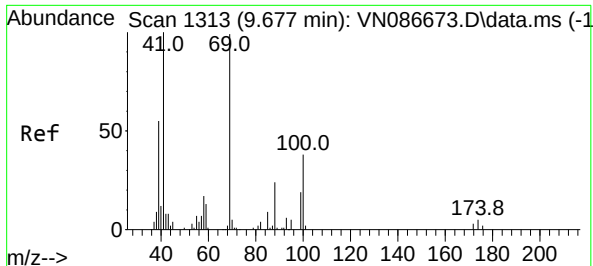
Tgt Ion: 43 Resp: 31850
Ion Ratio Lower Upper
43 100
61 17.5 21.4 32.2#
87 11.8 11.1 16.7



#45
1,2-Dichloropropane
Concen: 0.464 ug/l
RT: 9.741 min Scan# 1324
Delta R.T. 0.123 min
Lab File: VN086684.D
Acq: 19 May 2025 13:02

Tgt Ion: 63 Resp: 1161
Ion Ratio Lower Upper
63 100
65 0.0 25.8 38.6#





#48

Methyl methacrylate

Concen: 33.508 ug/l

RT: 9.735 min Scan# 1313

Delta R.T. 0.059 min

Lab File: VN086684.D

Acq: 19 May 2025 13:02

Instrument :

MSVOA_N

ClientSampleId :

PB168034ZHE#01

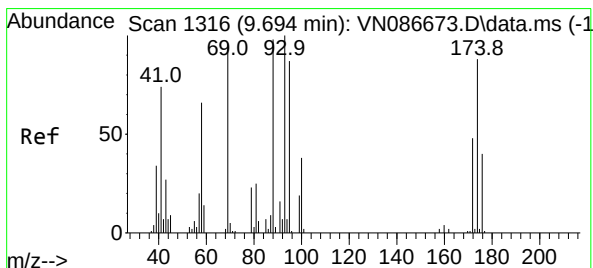
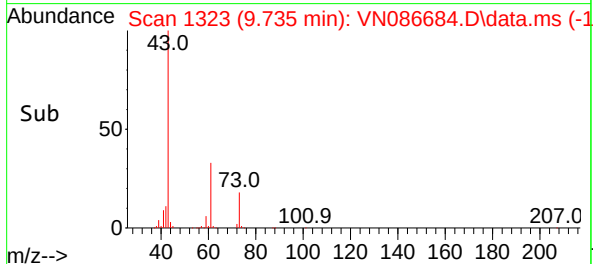
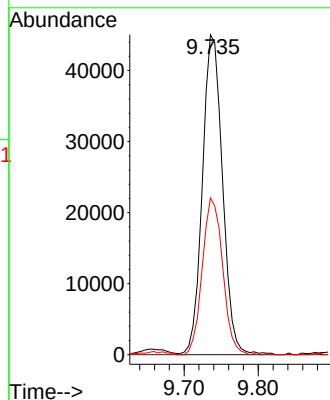
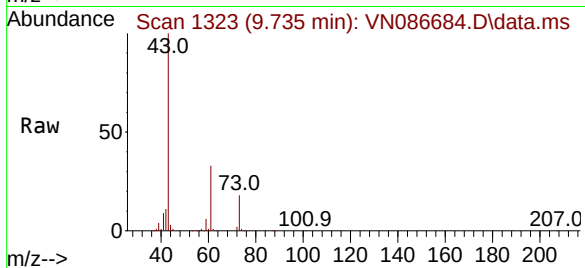
Tgt Ion: 41 Resp: 84939

Ion Ratio Lower Upper

41 100

69 0.0 74.1 111.1#

39 49.5 44.1 66.1



#49

1,4-Dioxane

Concen: 0.987 ug/l

RT: 9.735 min Scan# 1323

Delta R.T. 0.041 min

Lab File: VN086684.D

Acq: 19 May 2025 13:02

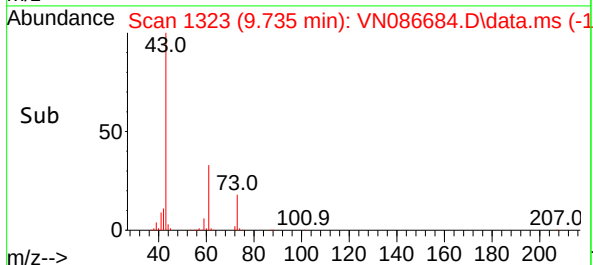
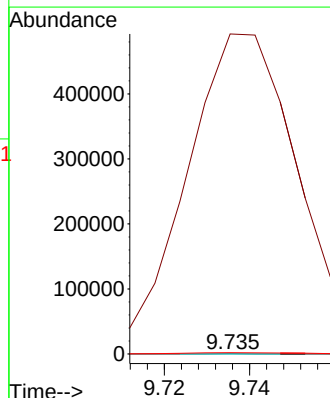
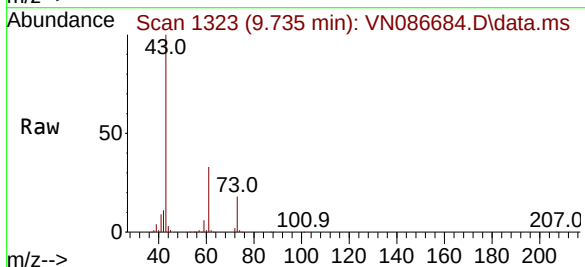
Tgt Ion: 88 Resp: 53

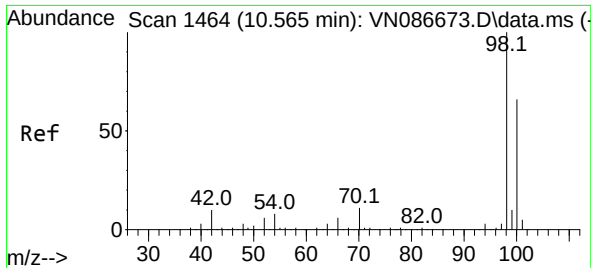
Ion Ratio Lower Upper

88 100

43 1736022.6 23.6 35.4#

58 7335.8 55.3 82.9#

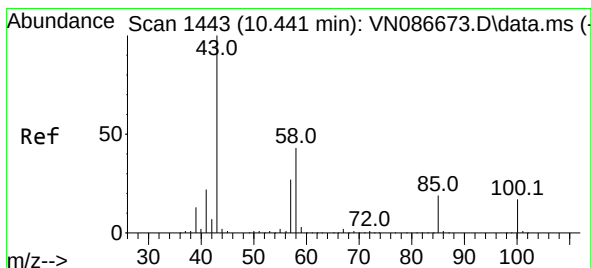
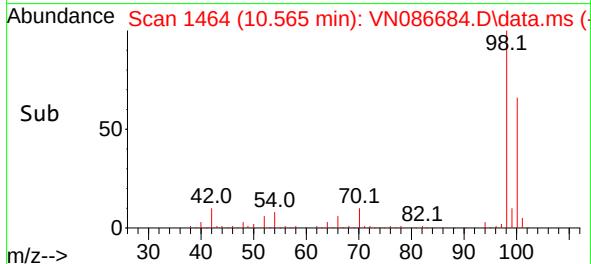
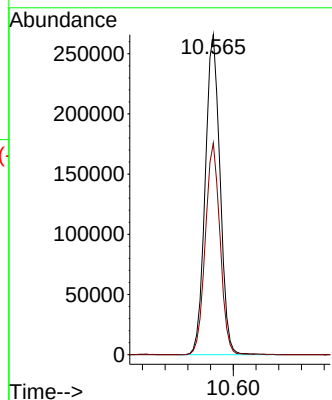
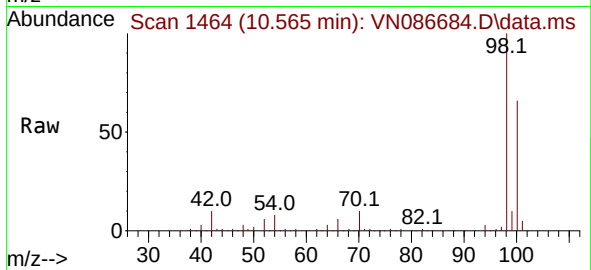




#50
Toluene-d8
Concen: 52.805 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN086684.D
Acq: 19 May 2025 13:02

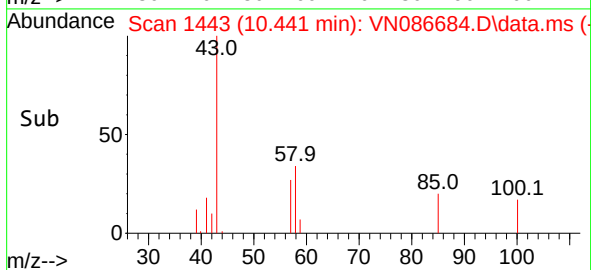
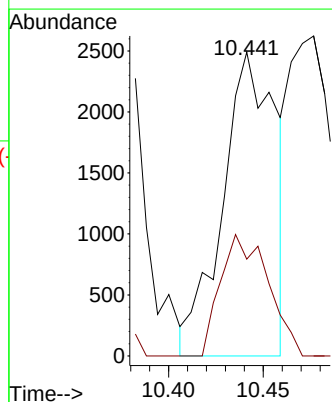
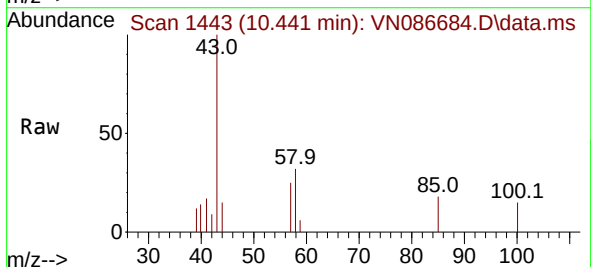
Instrument :
MSVOA_N
ClientSampleId :
PB168034ZHE#01

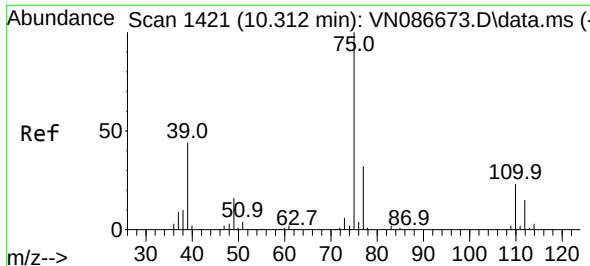
Tgt Ion: 98 Resp: 479232
Ion Ratio Lower Upper
98 100
100 65.6 52.9 79.3



#51
4-Methyl-2-Pentanone
Concen: 1.471 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.000 min
Lab File: VN086684.D
Acq: 19 May 2025 13:02

Tgt Ion: 43 Resp: 4851
Ion Ratio Lower Upper
43 100
58 36.0 33.9 50.9

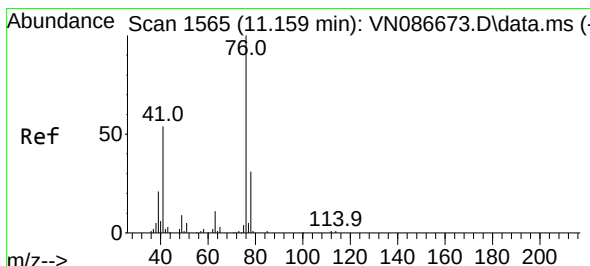
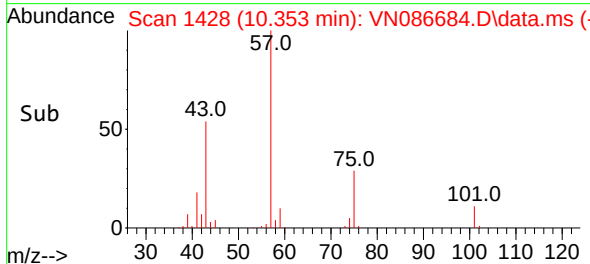
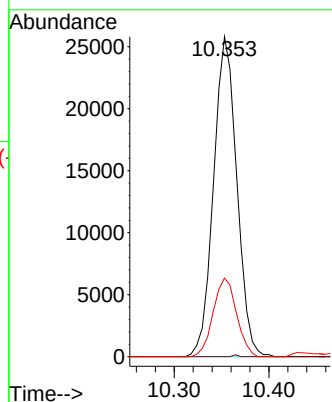
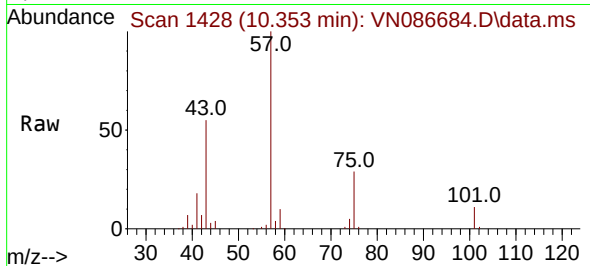




#54
 cis-1,3-Dichloropropene
 Concen: 10.951 ug/l
 RT: 10.353 min Scan# 1428
 Delta R.T. 0.041 min
 Lab File: VN086684.D
 Acq: 19 May 2025 13:02

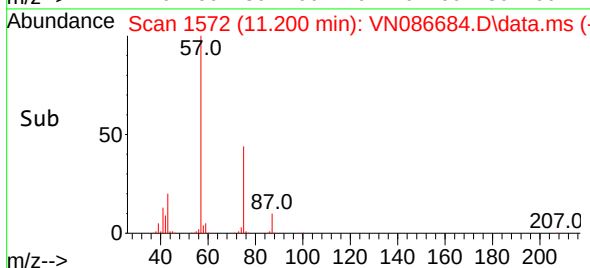
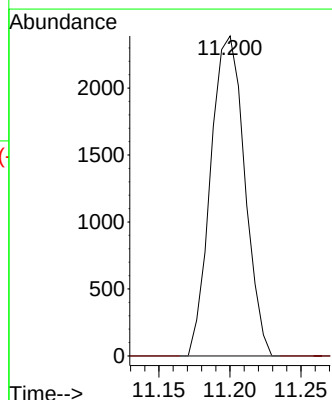
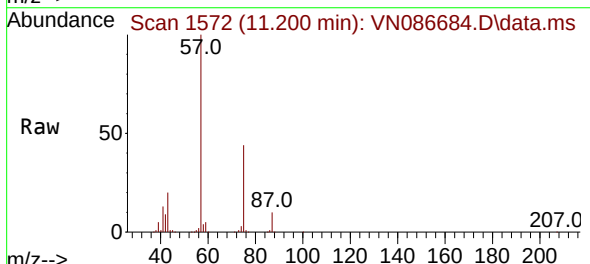
Instrument :
 MSVOA_N
 ClientSampleId :
 PB168034ZHE#01

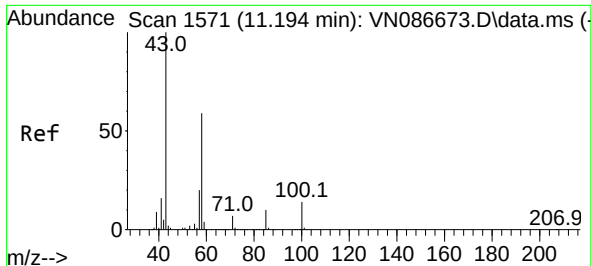
Tgt Ion: 75 Resp: 44053
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.3 37.9#
 39 24.5 35.2 52.8#



#57
 1,3-Dichloropropane
 Concen: 0.945 ug/l
 RT: 11.200 min Scan# 1572
 Delta R.T. 0.041 min
 Lab File: VN086684.D
 Acq: 19 May 2025 13:02

Tgt Ion: 76 Resp: 3976
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.8 38.8#

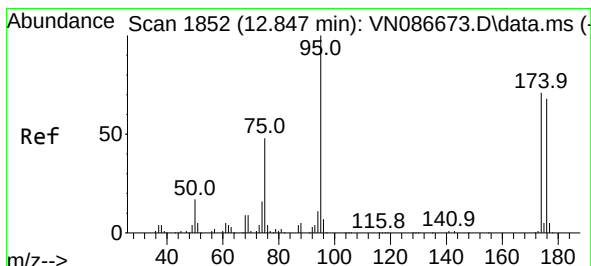
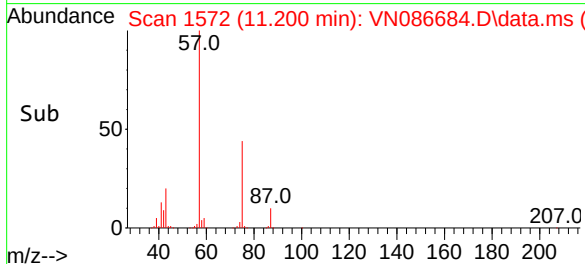
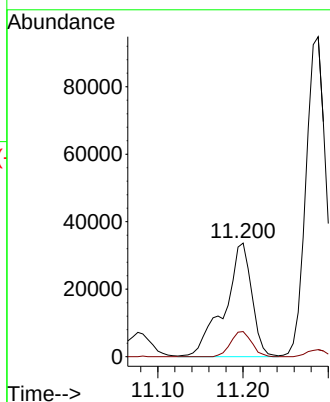
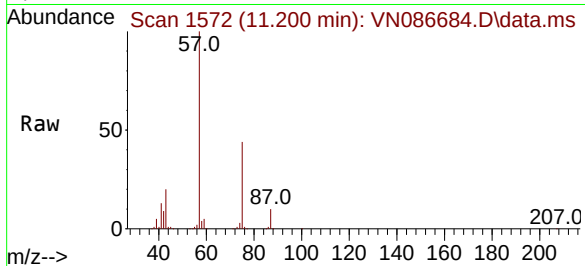




#59
2-Hexanone
Concen: 31.051 ug/l
RT: 11.200 min Scan# 1572
Delta R.T. 0.006 min
Lab File: VN086684.D
Acq: 19 May 2025 13:02

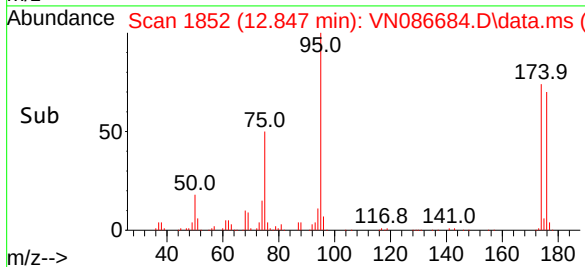
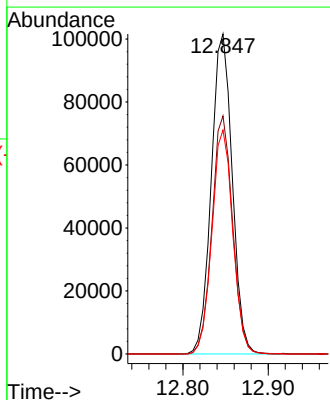
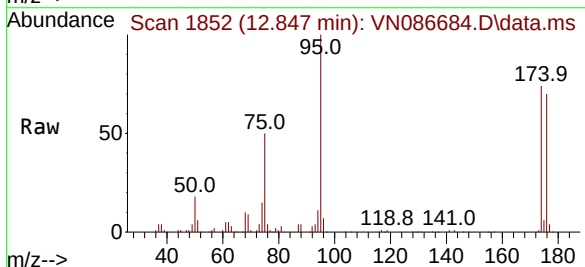
Instrument :
MSVOA_N
ClientSampleId :
PB168034ZHE#01

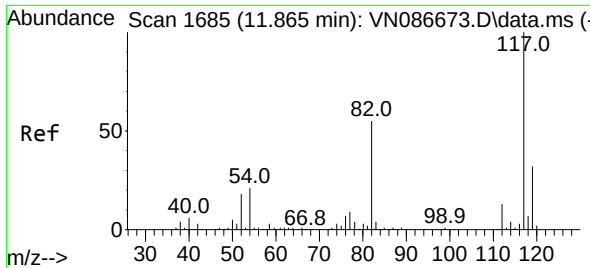
Tgt Ion: 43 Resp: 74801
Ion Ratio Lower Upper
43 100
58 17.1 29.8 89.5#



#62
4-Bromofluorobenzene
Concen: 54.141 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086684.D
Acq: 19 May 2025 13:02

Tgt Ion: 95 Resp: 173495
Ion Ratio Lower Upper
95 100
174 73.3 0.0 145.4
176 69.6 0.0 137.8

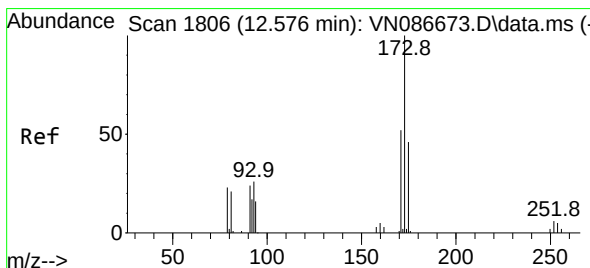
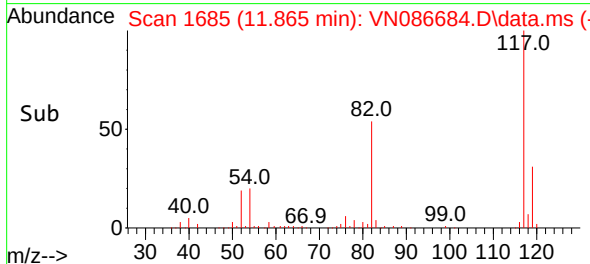
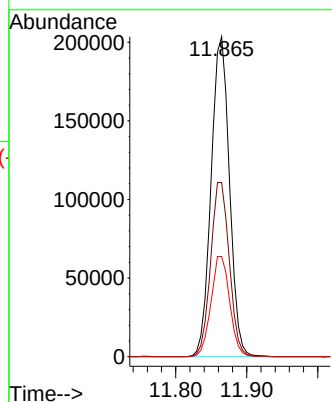
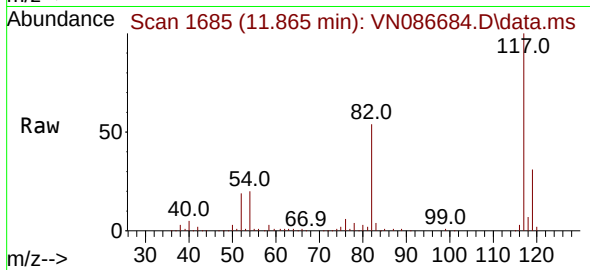




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN086684.D
Acq: 19 May 2025 13:02

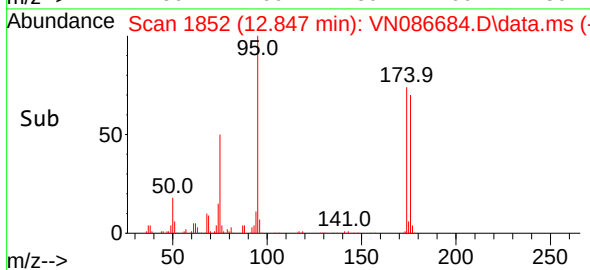
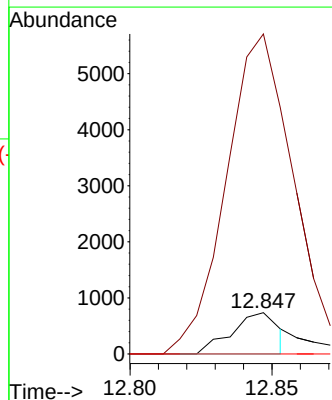
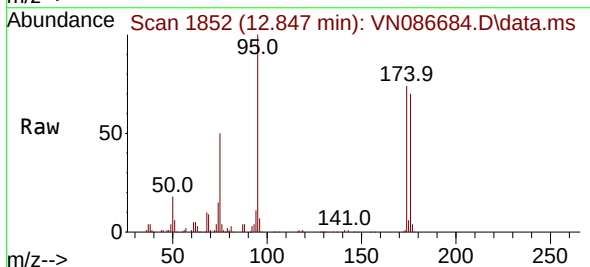
Instrument :
MSVOA_N
ClientSampleId :
PB168034ZHE#01

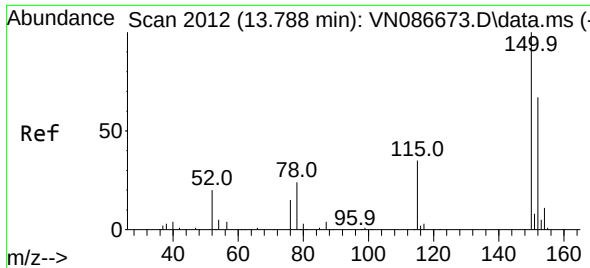
Tgt Ion:117 Resp: 364983
Ion Ratio Lower Upper
117 100
82 54.4 44.2 66.2
119 31.3 25.4 38.2



#71
Bromoform
Concen: 0.462 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.271 min
Lab File: VN086684.D
Acq: 19 May 2025 13:02

Tgt Ion:173 Resp: 849
Ion Ratio Lower Upper
173 100
175 899.6 23.4 70.2#
254 0.0 0.0 0.0

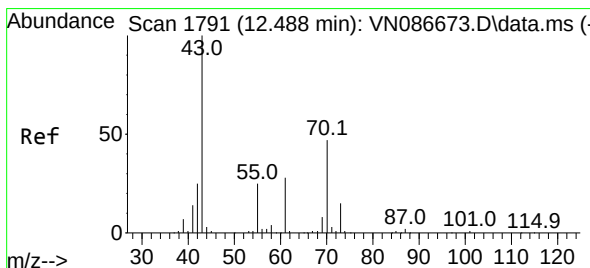
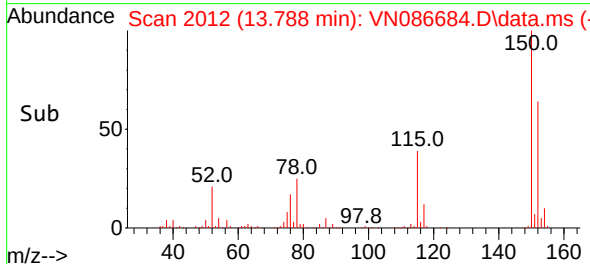
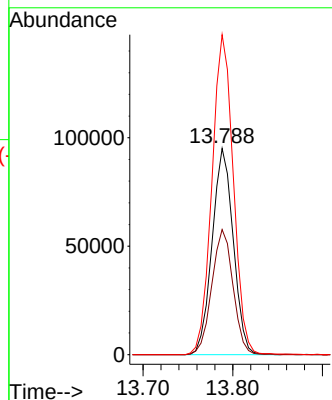
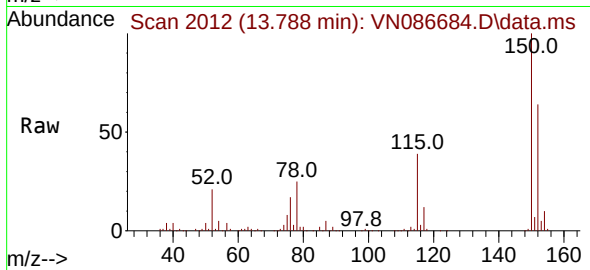




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 20
Delta R.T. -0.000 min
Lab File: VN086684.D
Acq: 19 May 2025 13:02

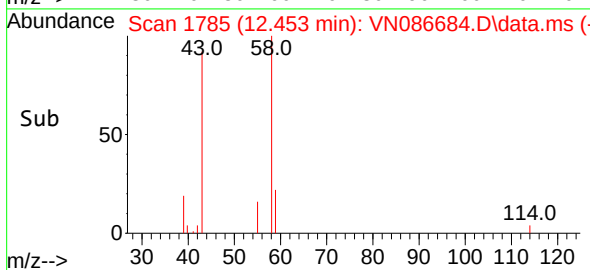
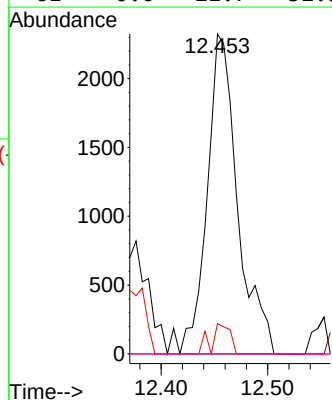
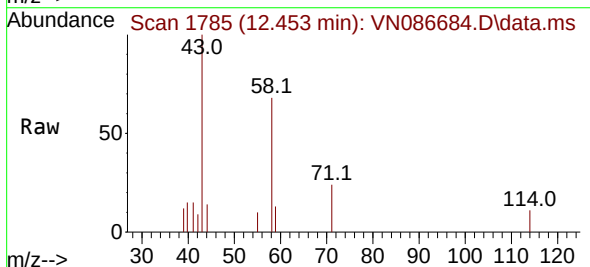
Instrument :
MSVOA_N
ClientSampleId :
PB168034ZHE#01

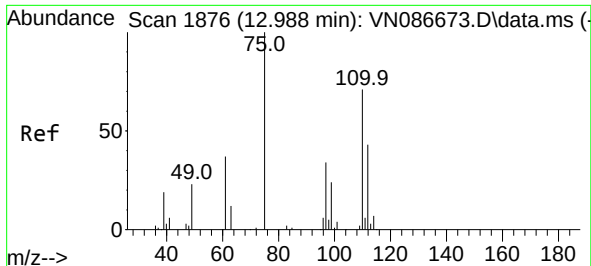
Tgt Ion:152 Resp: 155624
Ion Ratio Lower Upper
152 100
115 60.9 30.0 90.1
150 157.0 0.0 347.8



#74
N-ethyl acetate
Concen: 0.915 ug/l
RT: 12.453 min Scan# 1785
Delta R.T. -0.035 min
Lab File: VN086684.D
Acq: 19 May 2025 13:02

Tgt Ion: 43 Resp: 4593
Ion Ratio Lower Upper
43 100
70 0.0 37.9 56.9#
55 5.8 20.5 30.7#
61 0.0 21.7 32.5#

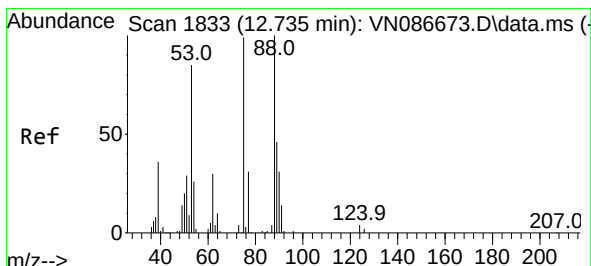
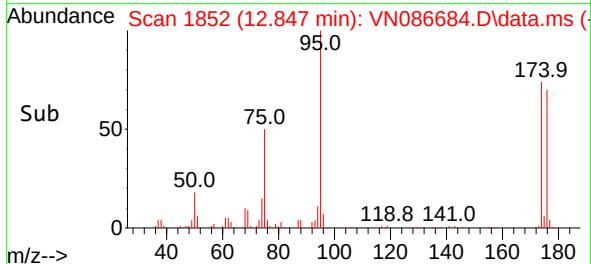
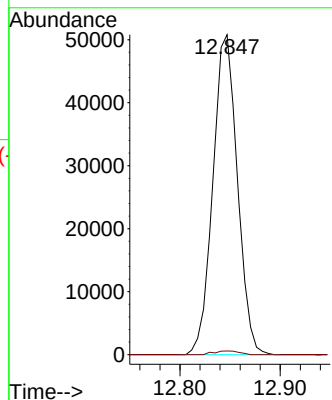
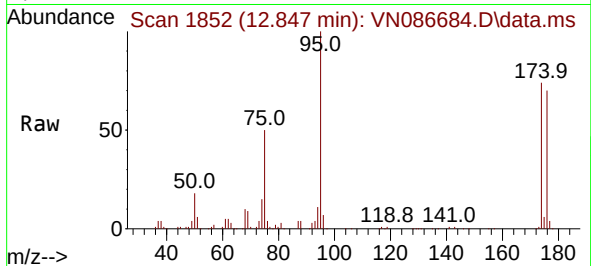




#76
1,2,3-Trichloropropane
Concen: 24.507 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.141 min
Lab File: VN086684.D
Acq: 19 May 2025 13:02

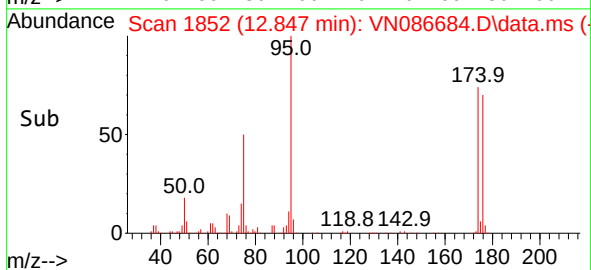
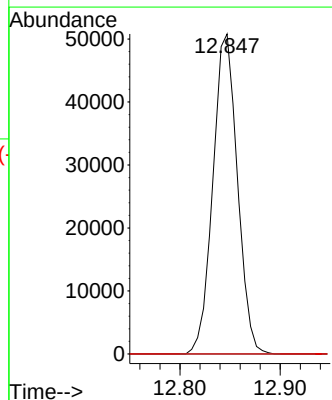
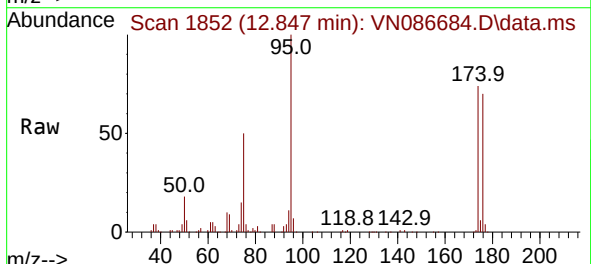
Instrument :
MSVOA_N
ClientSampleId :
PB168034ZHE#01

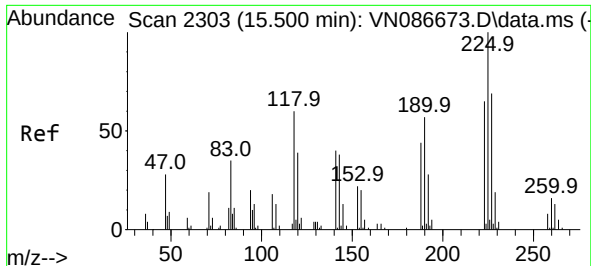
Tgt Ion: 75 Resp: 86255
Ion Ratio Lower Upper
75 100
77 1.2 96.0 288.1#



#81
trans-1,4-Dichloro-2-butene
Concen: 61.848 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN086684.D
Acq: 19 May 2025 13:02

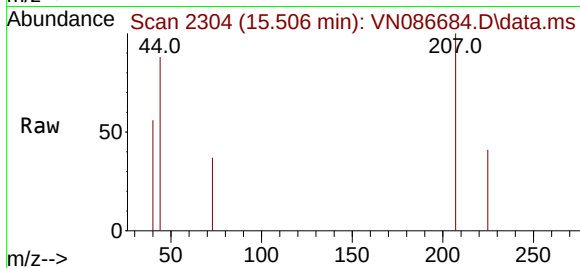
Tgt Ion: 75 Resp: 86255
Ion Ratio Lower Upper
75 100
53 0.0 70.4 105.6#
89 0.0 32.4 48.6#



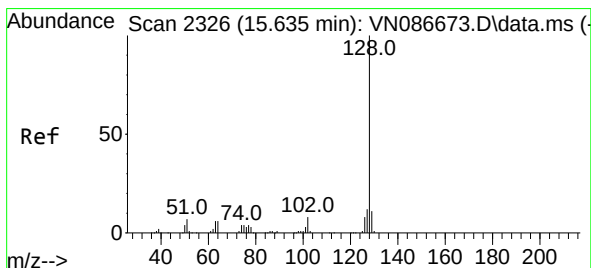
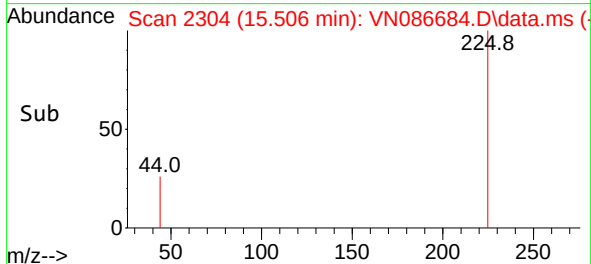
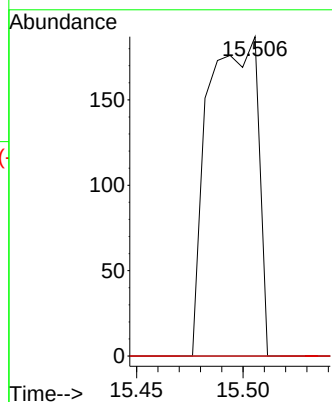


#94
Hexachlorobutadiene
Concen: 0.346 ug/l
RT: 15.506 min Scan# 21
Delta R.T. 0.006 min
Lab File: VN086684.D
Acq: 19 May 2025 13:02

Instrument :
MSVOA_N
ClientSampleId :
PB168034ZHE#01



Tgt Ion:225 Resp: 302
Ion Ratio Lower Upper
225 100
223 0.0 32.9 98.6#
227 0.0 32.4 97.2#



#95
Naphthalene
Concen: 0.290 ug/l
RT: 15.635 min Scan# 2326
Delta R.T. -0.000 min
Lab File: VN086684.D
Acq: 19 May 2025 13:02

Tgt Ion:128 Resp: 2117
Ion Ratio Lower Upper
128 100
127 8.2 10.1 15.1#
129 2.8 8.6 13.0#

