

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN070125\
 Data File : VN087253.D
 Acq On : 01 Jul 2025 11:36
 Operator : JC\MD
 Sample : PB168653TB
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB168653TB

Quant Time: Jul 02 02:00:06 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N063025W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 01 03:15:00 2025
 Response via : Initial Calibration

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

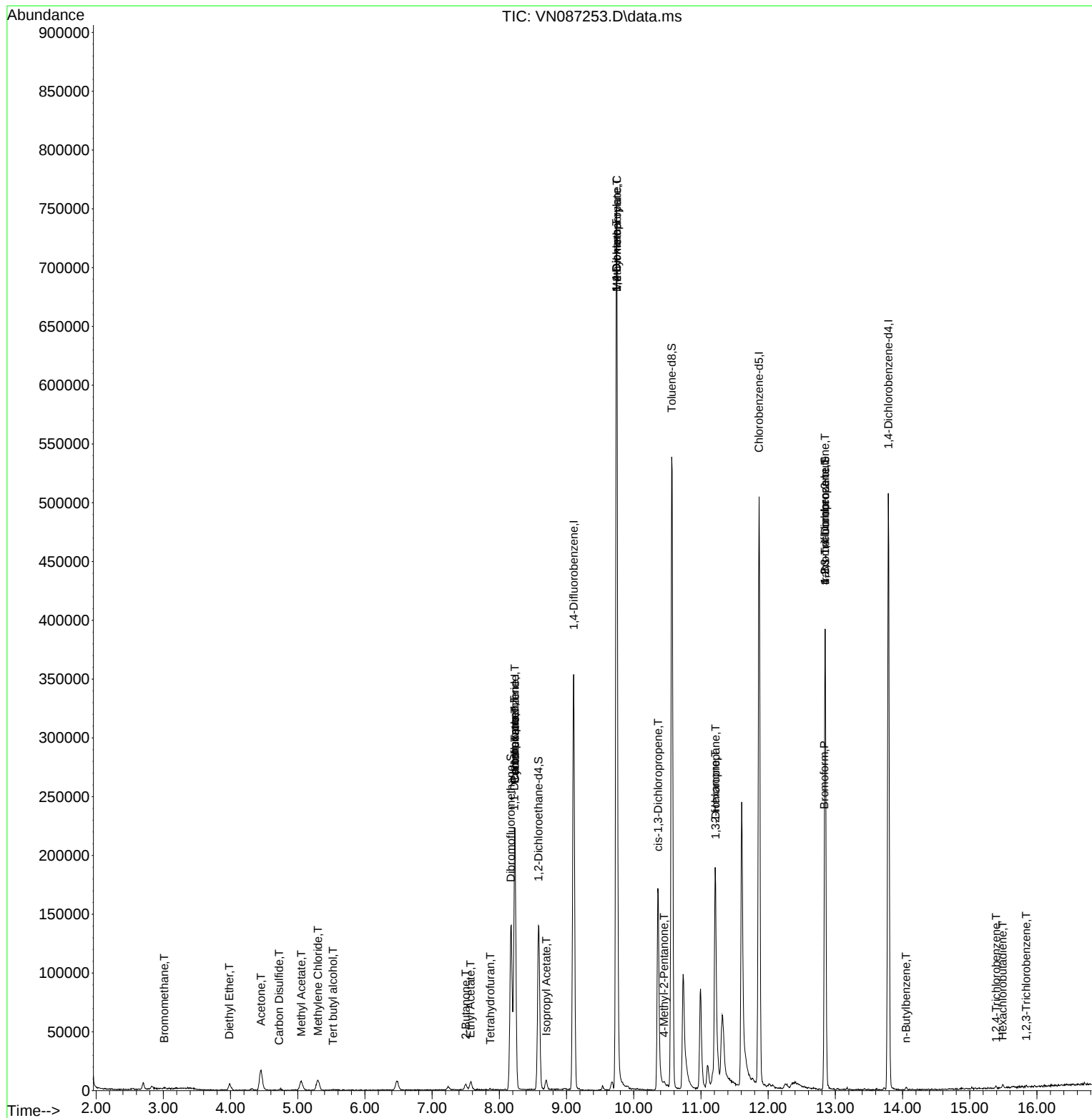
Internal Standards						
1) Pentafluorobenzene	8.230	168	172658	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	324161	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	305295	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	146928	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	117541	54.242	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 108.480%			
35) Dibromofluoromethane	8.171	113	106666	51.390	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 102.780%			
50) Toluene-d8	10.565	98	393820	48.677	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 97.360%			
62) 4-Bromofluorobenzene	12.847	95	134358	46.674	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 93.340%			
Target Compounds					Qvalue	
5) Bromomethane	3.012	94	380	0.248	ug/l	89
8) Diethyl Ether	3.983	74	3514	3.783	ug/l	95
11) Tert butyl alcohol	5.524	59	786	1.990	ug/l #	72
16) Acetone	4.453	43	33907	40.928	ug/l	96
17) Carbon Disulfide	4.724	76	1253	0.260	ug/l #	76
18) Methyl Acetate	5.053	43	15710	8.283	ug/l	97
20) Methylene Chloride	5.300	84	8013	4.366	ug/l #	88
25) 2-Butanone	7.500	43	7827	6.046	ug/l #	88
29) Tetrahydrofuran	7.865	42	371	0.445	ug/l #	88
31) Cyclohexane	8.230	56	3294	1.116	ug/l #	29
36) 1,1-Dichloropropene	8.224	75	12976	4.597	ug/l #	47
37) Ethyl Acetate	7.571	43	10699	3.526	ug/l	99
38) Carbon Tetrachloride	8.230	117	16599	5.190	ug/l #	16
43) Isopropyl Acetate	8.700	43	8969	1.906	ug/l	92
45) 1,2-Dichloropropane	9.747	63	1030	0.540	ug/l #	45
48) Methyl methacrylate	9.747	41	69997	35.294	ug/l #	35
49) 1,4-Dioxane	9.741	88	55	18.014	ug/l #	1
51) 4-Methyl-2-Pentanone	10.453	43	7599	2.639	ug/l #	61
54) cis-1,3-Dichloropropene	10.365	75	42303	12.514	ug/l #	62
57) 1,3-Dichloropropane	11.218	76	2762	0.781	ug/l #	41
59) 2-Hexanone	11.212	43	29089	14.105	ug/l #	51
71) Bromoform	12.835	173	564	0.309	ug/l #	1
76) 1,2,3-Trichloropropane	12.847	75	67941	24.311	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	67941	57.104	ug/l #	14
89) n-Butylbenzene	14.053	91	1735	0.233	ug/l	87
93) 1,2,4-Trichlorobenzene	15.394	180	770	0.283	ug/l #	84
94) Hexachlorobutadiene	15.488	225	783	0.906	ug/l #	30
96) 1,2,3-Trichlorobenzene	15.841	180	555	0.209	ug/l	63

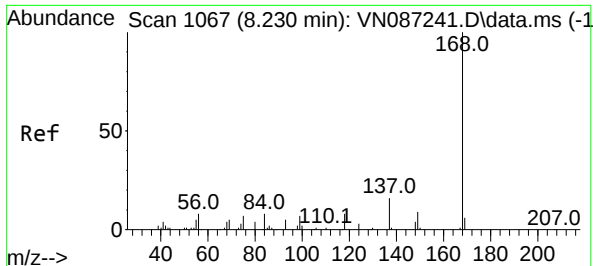
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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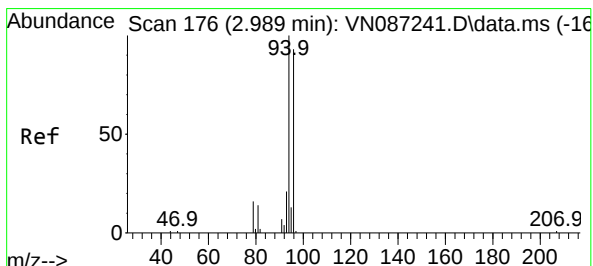
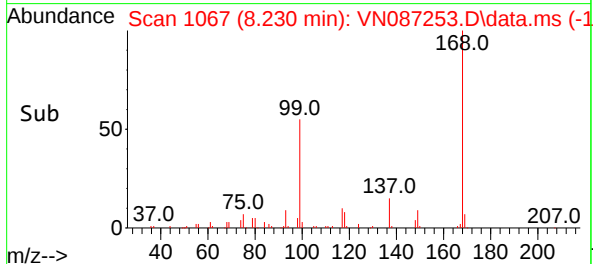
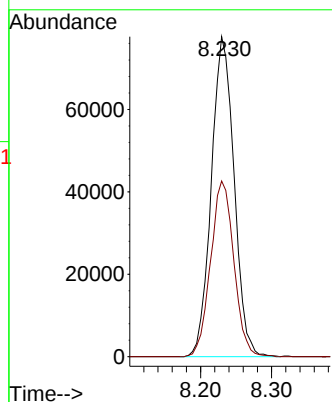
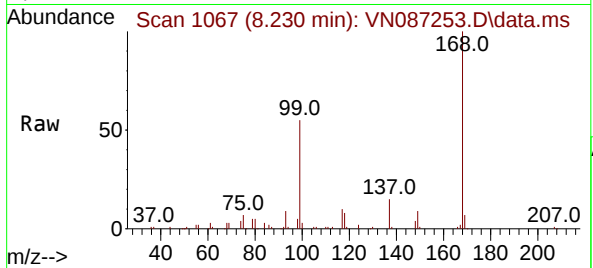




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087253.D
Acq: 01 Jul 2025 11:36

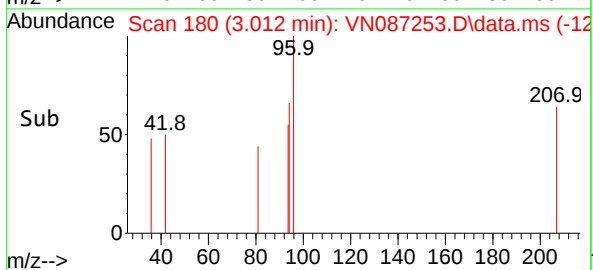
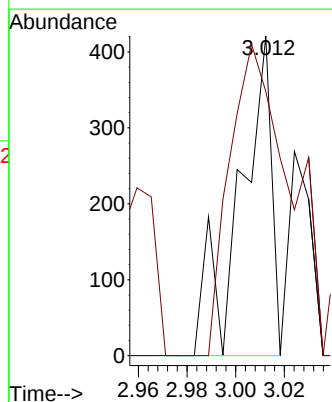
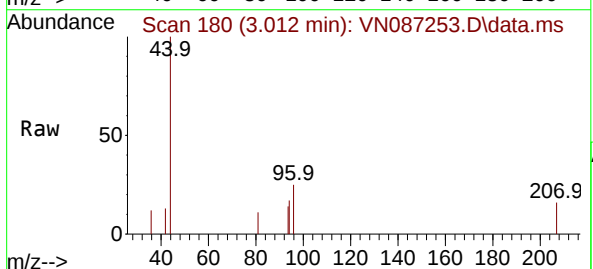
Instrument :
MSVOA_N
ClientSampleId :
PB168653TB

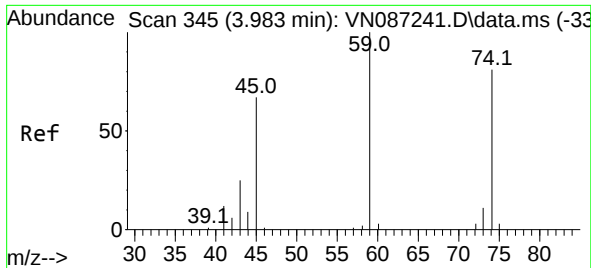
Tgt Ion:168 Resp: 172658
Ion Ratio Lower Upper
168 100
99 54.9 42.6 64.0



#5
Bromomethane
Concen: 0.248 ug/l
RT: 3.012 min Scan# 180
Delta R.T. 0.024 min
Lab File: VN087253.D
Acq: 01 Jul 2025 11:36

Tgt Ion: 94 Resp: 380
Ion Ratio Lower Upper
94 100
96 82.7 74.3 111.5





#8

Diethyl Ether

Concen: 3.783 ug/l

RT: 3.983 min Scan# 345

Delta R.T. -0.000 min

Lab File: VN087253.D

Acq: 01 Jul 2025 11:36

Instrument :

MSVOA_N

ClientSampleId :

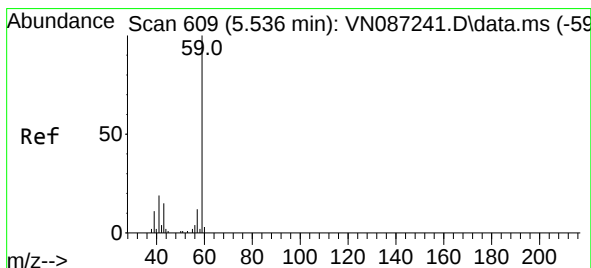
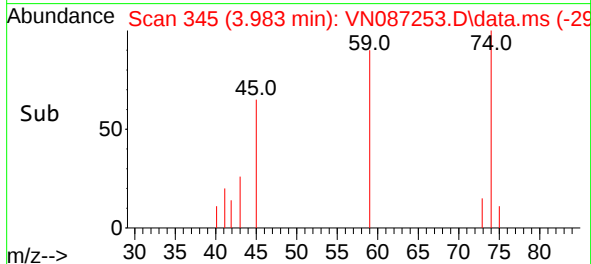
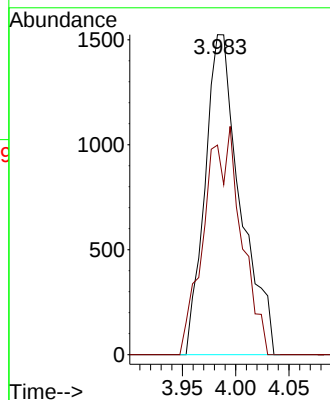
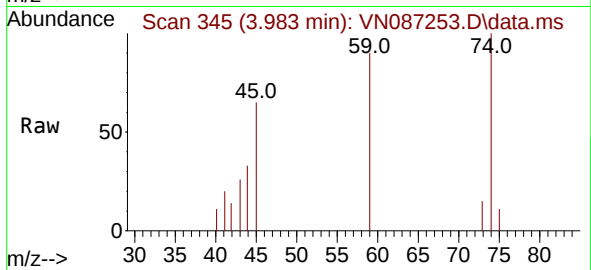
PB168653TB

Tgt Ion: 74 Resp: 3514

Ion Ratio Lower Upper

74 100

45 74.4 39.4 118.1



#11

Tert butyl alcohol

Concen: 1.990 ug/l

RT: 5.524 min Scan# 607

Delta R.T. -0.012 min

Lab File: VN087253.D

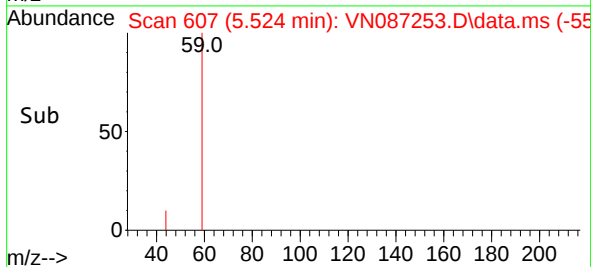
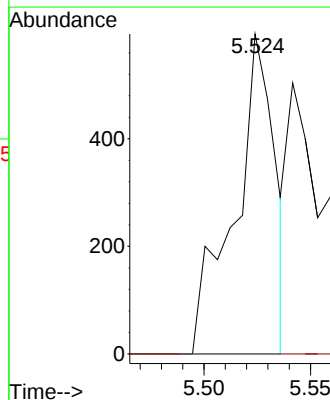
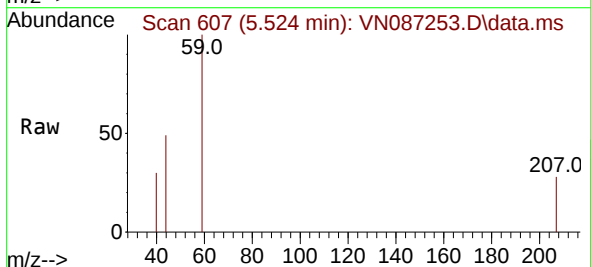
Acq: 01 Jul 2025 11:36

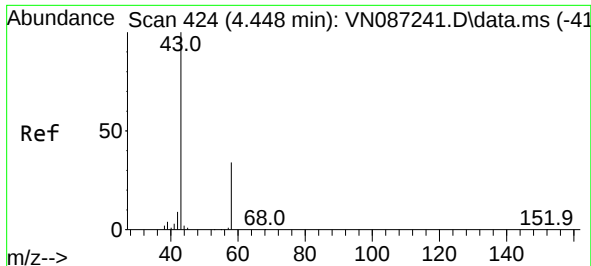
Tgt Ion: 59 Resp: 786

Ion Ratio Lower Upper

59 100

57 0.0 8.6 12.8#

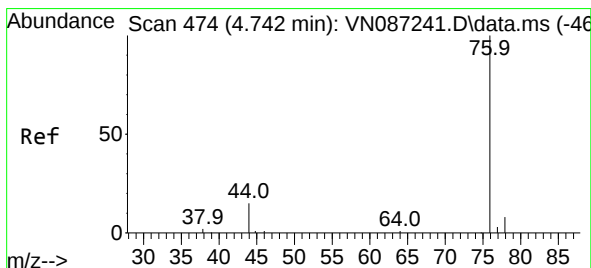
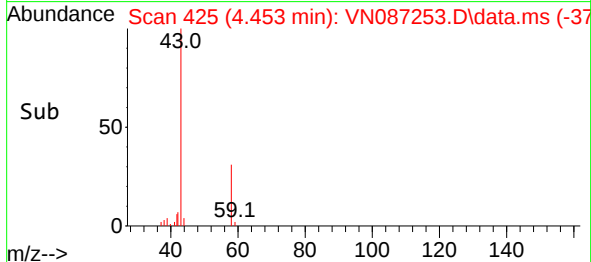
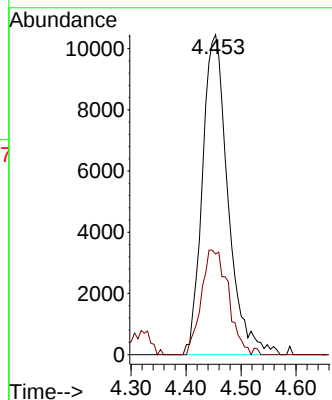
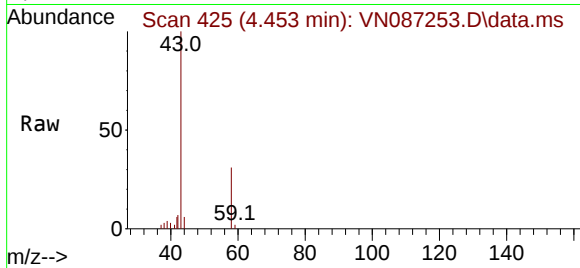




#16
Acetone
Concen: 40.928 ug/l
RT: 4.453 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN087253.D
Acq: 01 Jul 2025 11:36

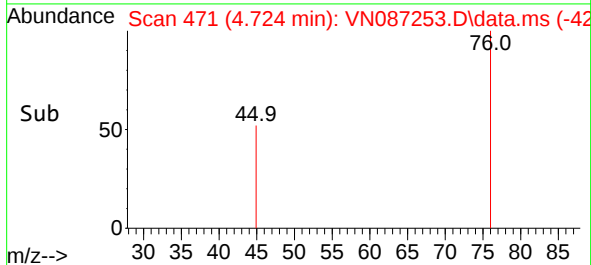
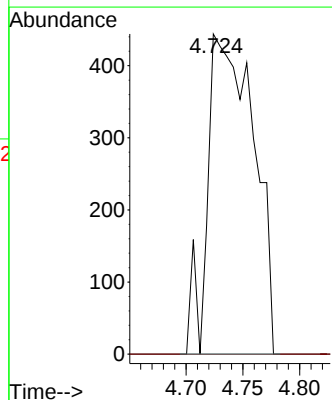
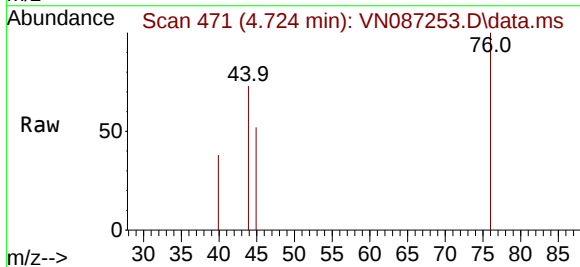
Instrument :
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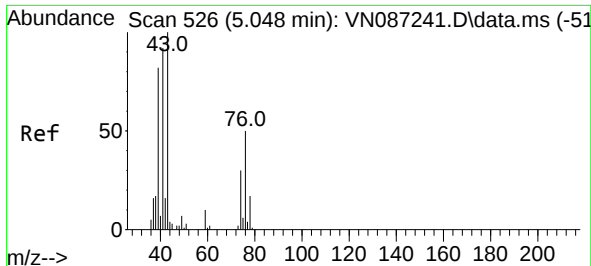
Tgt Ion: 43 Resp: 33907
Ion Ratio Lower Upper
43 100
58 31.5 27.1 40.7



#17
Carbon Disulfide
Concen: 0.260 ug/l
RT: 4.724 min Scan# 471
Delta R.T. -0.018 min
Lab File: VN087253.D
Acq: 01 Jul 2025 11:36

Tgt Ion: 76 Resp: 1253
Ion Ratio Lower Upper
76 100
78 0.0 6.8 10.2#

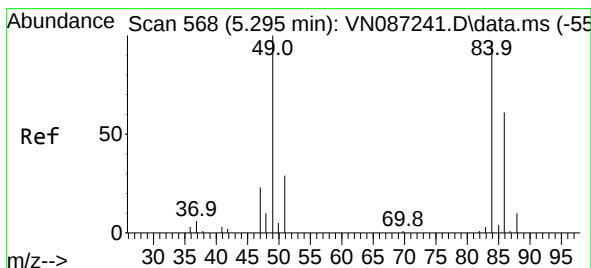
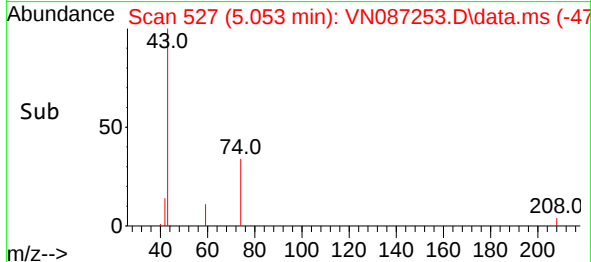
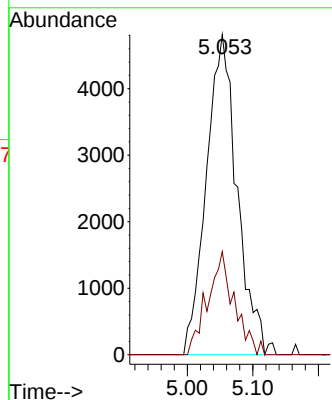
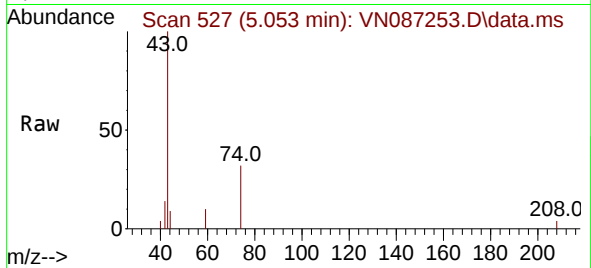




#18
Methyl Acetate
Concen: 8.283 ug/l
RT: 5.053 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN087253.D
Acq: 01 Jul 2025 11:36

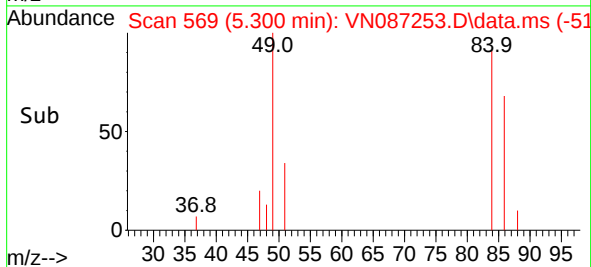
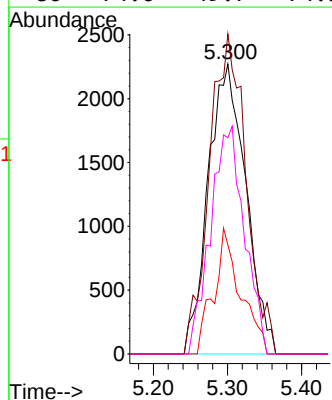
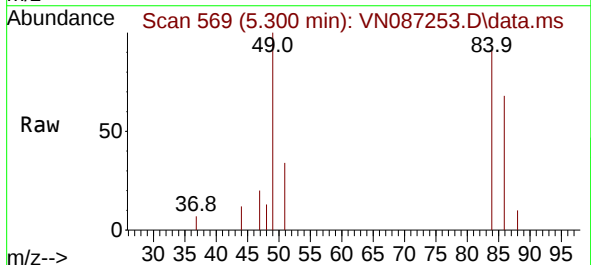
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ClientSampleId :
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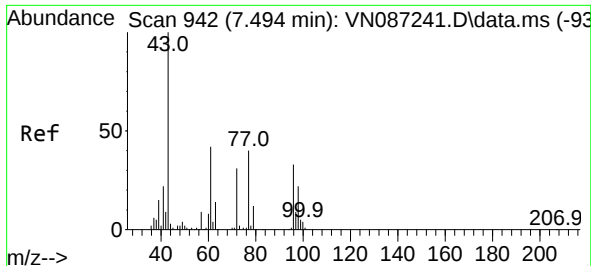
Tgt Ion: 43 Resp: 15710
Ion Ratio Lower Upper
43 100
74 27.9 23.8 35.6



#20
Methylene Chloride
Concen: 4.366 ug/l
RT: 5.300 min Scan# 569
Delta R.T. 0.006 min
Lab File: VN087253.D
Acq: 01 Jul 2025 11:36

Tgt Ion: 84 Resp: 8013
Ion Ratio Lower Upper
84 100
49 110.3 82.1 123.1
51 37.6 23.5 35.3#
86 74.6 49.7 74.5#

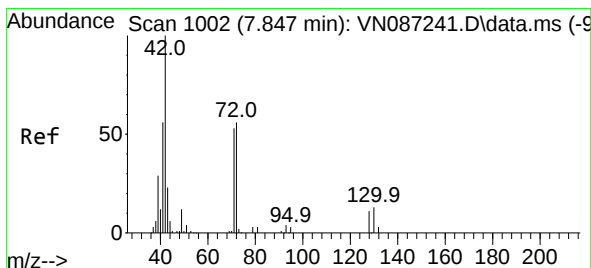
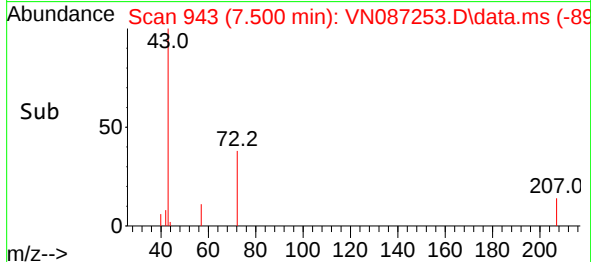
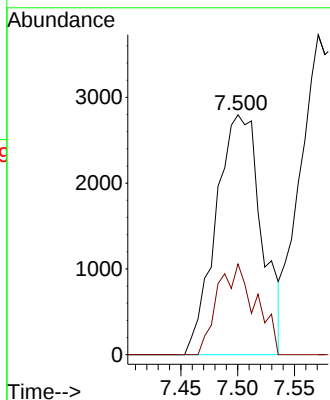
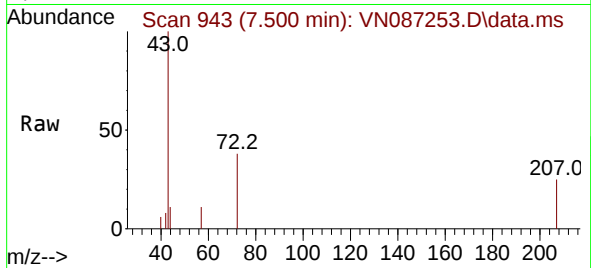




#25
2-Butanone
Concen: 6.046 ug/l
RT: 7.500 min Scan# 94
Delta R.T. 0.006 min
Lab File: VN087253.D
Acq: 01 Jul 2025 11:36

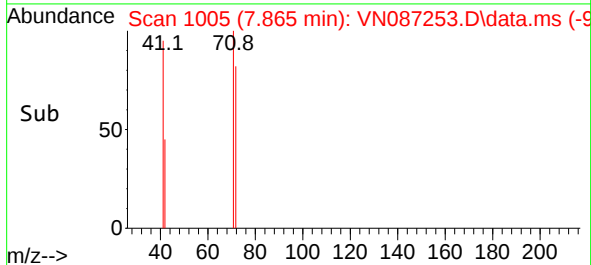
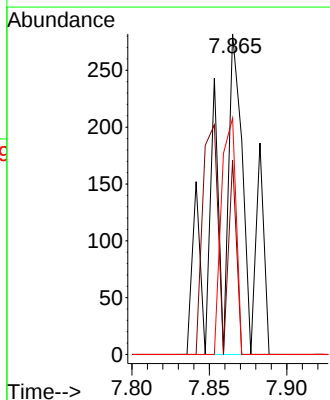
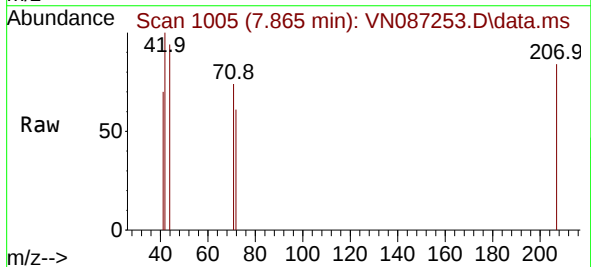
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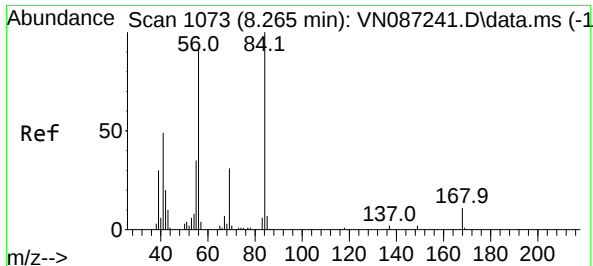
Tgt Ion: 43 Resp: 7827
Ion Ratio Lower Upper
43 100
72 37.8 24.8 37.2#



#29
Tetrahydrofuran
Concen: 0.445 ug/l
RT: 7.865 min Scan# 1005
Delta R.T. 0.018 min
Lab File: VN087253.D
Acq: 01 Jul 2025 11:36

Tgt Ion: 42 Resp: 371
Ion Ratio Lower Upper
42 100
72 53.1 44.2 66.4
71 36.7 41.1 61.7#

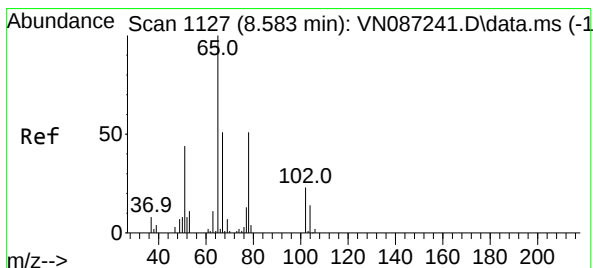
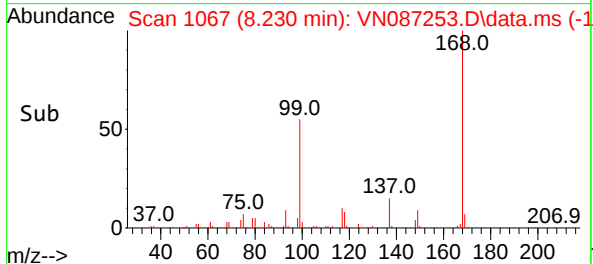
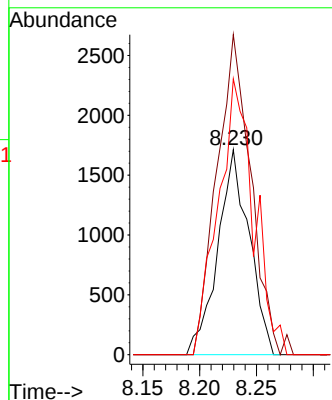
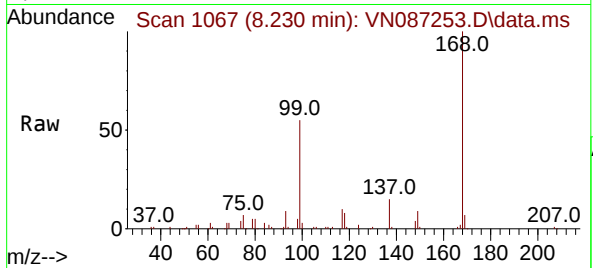




#31
Cyclohexane
Concen: 1.116 ug/l
RT: 8.230 min Scan# 1073
Delta R.T. -0.035 min
Lab File: VN087253.D
Acq: 01 Jul 2025 11:36

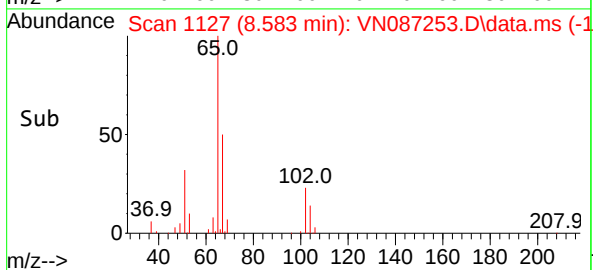
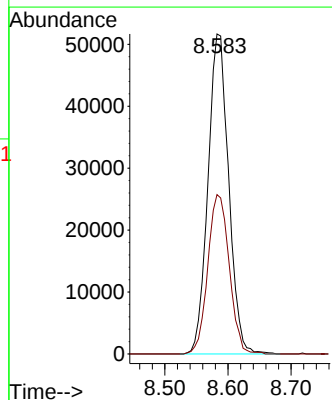
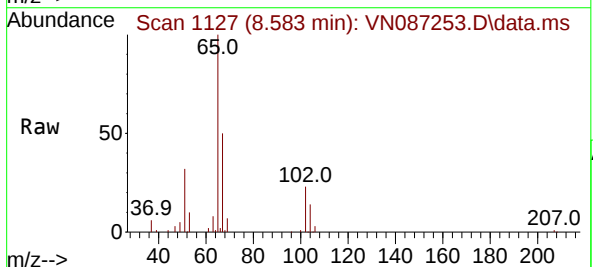
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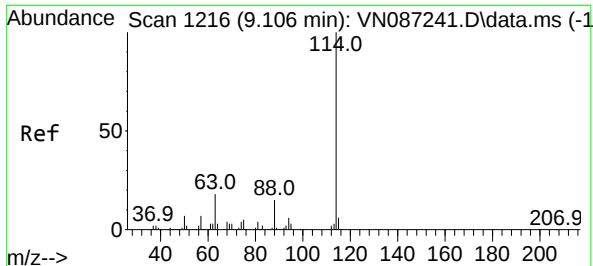
Tgt Ion: 56 Resp: 3294
Ion Ratio Lower Upper
56 100
69 156.1 27.0 40.6#
84 134.6 86.2 129.4#



#33
1,2-Dichloroethane-d4
Concen: 54.242 ug/l
RT: 8.583 min Scan# 1127
Delta R.T. -0.000 min
Lab File: VN087253.D
Acq: 01 Jul 2025 11:36

Tgt Ion: 65 Resp: 117541
Ion Ratio Lower Upper
65 100
67 51.7 0.0 102.6

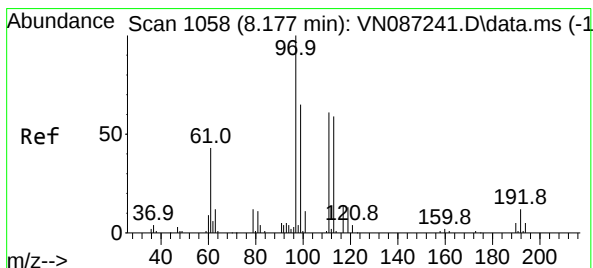
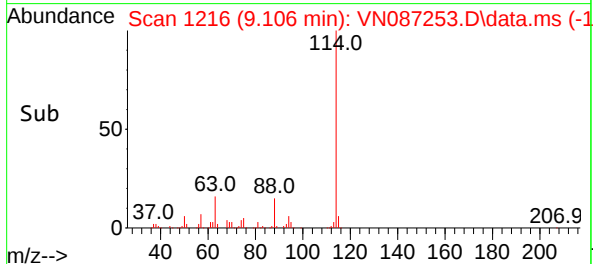
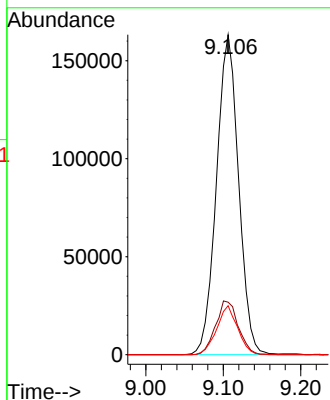
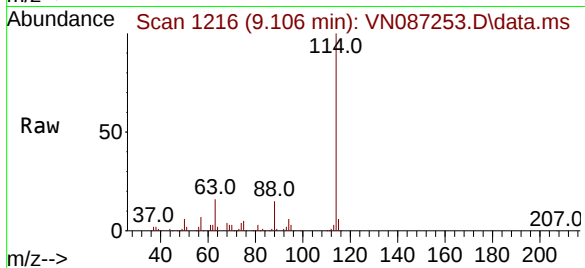




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN087253.D
Acq: 01 Jul 2025 11:36

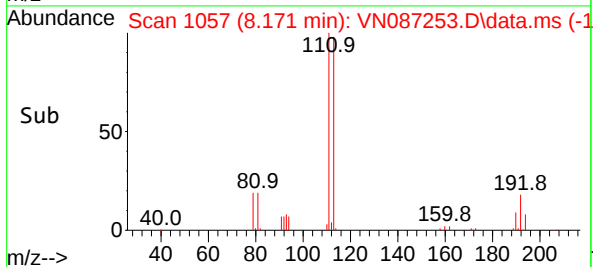
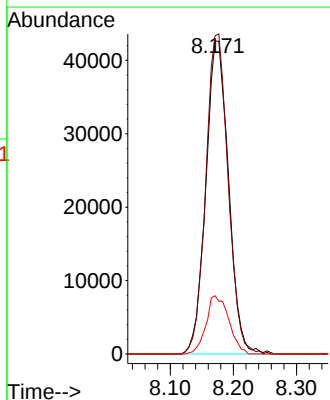
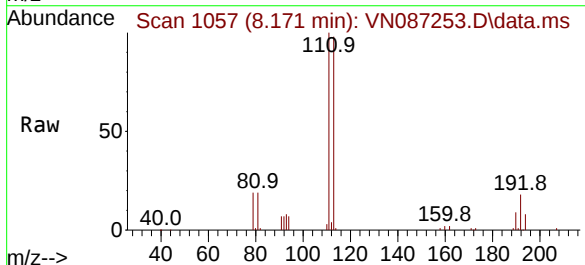
Instrument :
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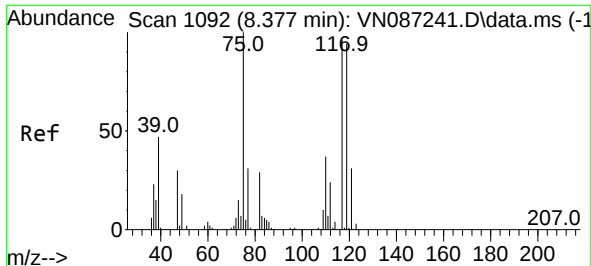
Tgt Ion:114 Resp: 324161
Ion Ratio Lower Upper
114 100
63 16.4 0.0 36.6
88 15.3 0.0 29.6



#35
Dibromofluoromethane
Concen: 51.390 ug/l
RT: 8.171 min Scan# 1057
Delta R.T. -0.006 min
Lab File: VN087253.D
Acq: 01 Jul 2025 11:36

Tgt Ion:113 Resp: 106666
Ion Ratio Lower Upper
113 100
111 100.5 81.4 122.2
192 18.6 15.1 22.7





#36

1,1-Dichloropropene

Concen: 4.597 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.153 min

Lab File: VN087253.D

Acq: 01 Jul 2025 11:36

Instrument :

MSVOA_N

ClientSampleId :

PB168653TB

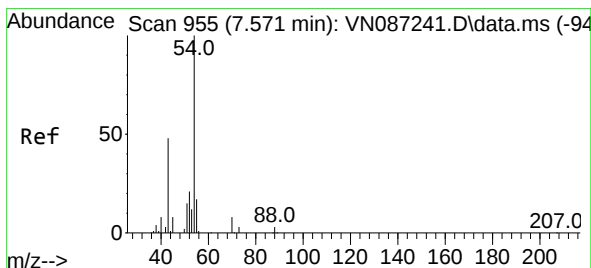
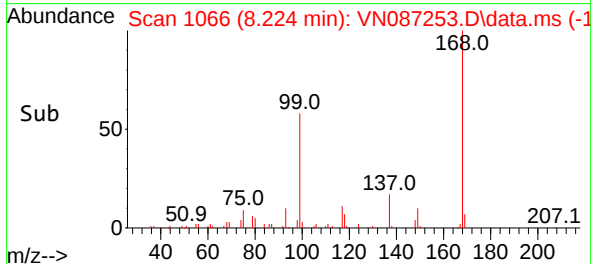
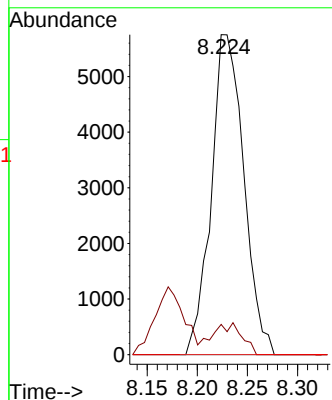
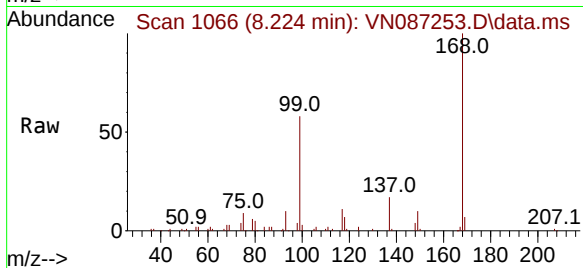
Tgt Ion: 75 Resp: 12976

Ion Ratio Lower Upper

75 100

110 7.6 18.7 56.1#

77 0.0 24.5 36.7#



#37

Ethyl Acetate

Concen: 3.526 ug/l

RT: 7.571 min Scan# 955

Delta R.T. -0.000 min

Lab File: VN087253.D

Acq: 01 Jul 2025 11:36

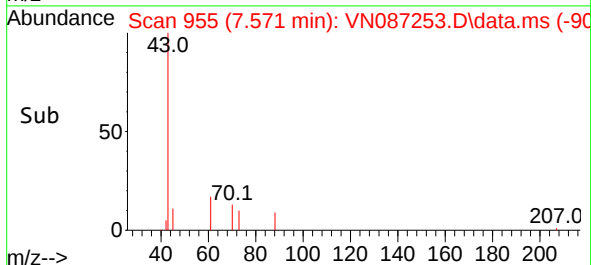
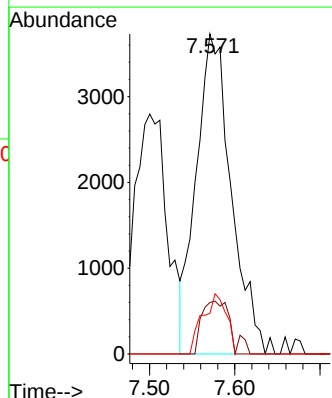
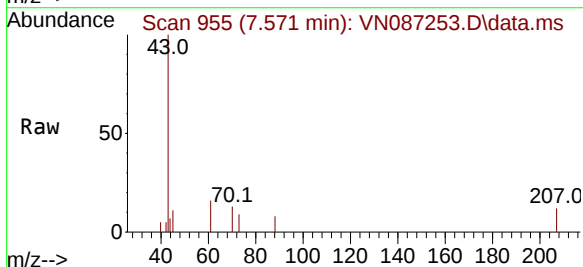
Tgt Ion: 43 Resp: 10699

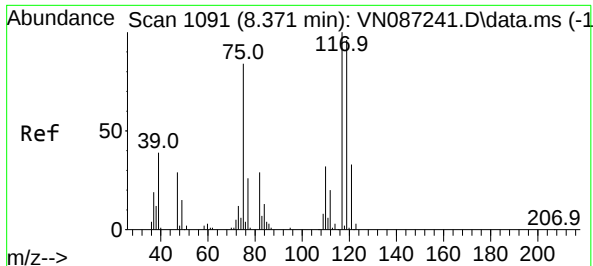
Ion Ratio Lower Upper

43 100

61 13.6 11.3 16.9

70 12.7 9.9 14.9

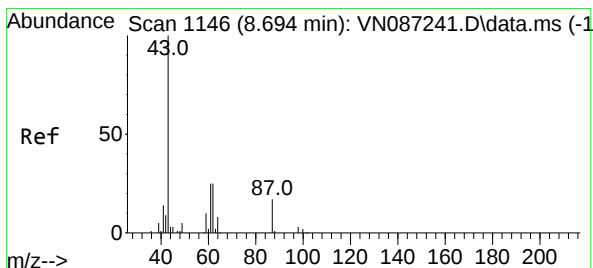
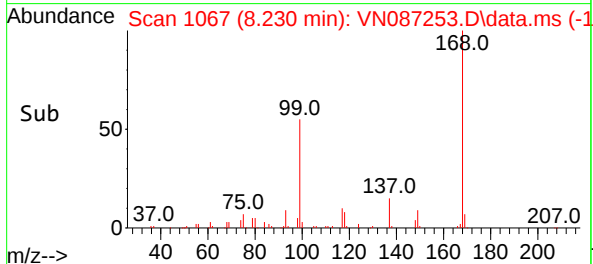
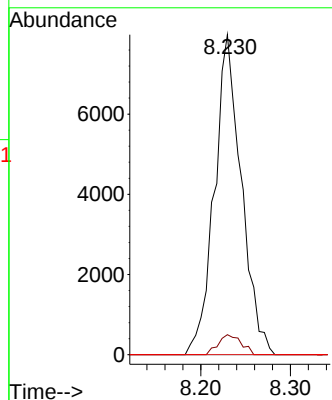
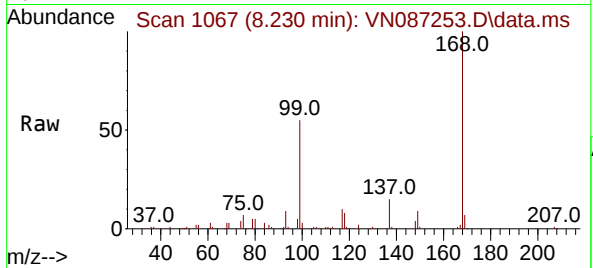




#38
Carbon Tetrachloride
Concen: 5.190 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.141 min
Lab File: VN087253.D
Acq: 01 Jul 2025 11:36

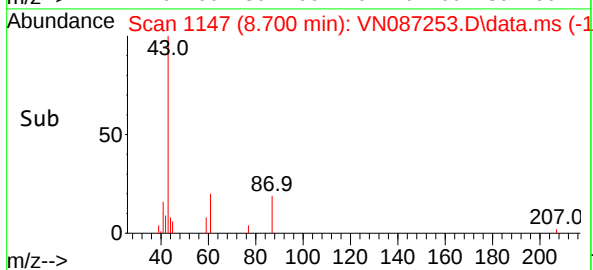
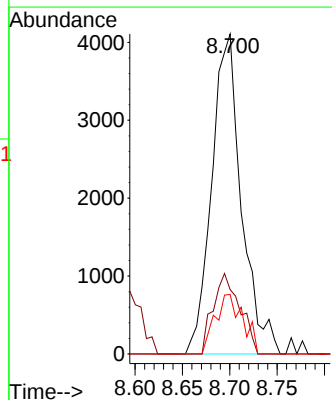
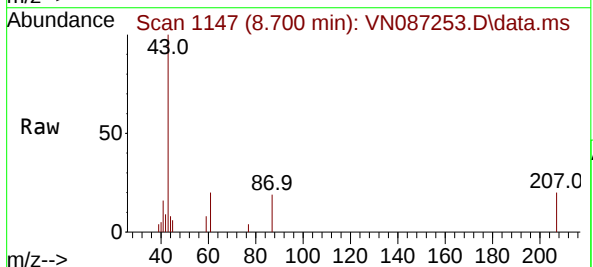
Instrument :
MSVOA_N
ClientSampleId :
PB168653TB

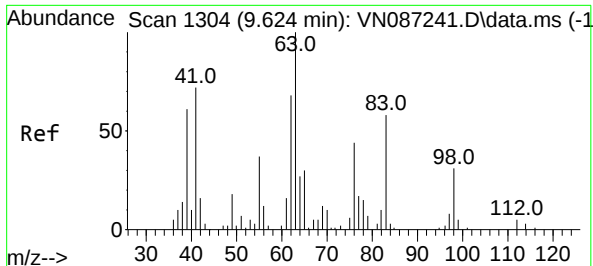
Tgt Ion:117 Resp: 16599
Ion Ratio Lower Upper
117 100
119 6.3 77.2 115.8#
121 0.0 26.6 39.8#



#43
Isopropyl Acetate
Concen: 1.906 ug/l
RT: 8.700 min Scan# 1147
Delta R.T. 0.006 min
Lab File: VN087253.D
Acq: 01 Jul 2025 11:36

Tgt Ion: 43 Resp: 8969
Ion Ratio Lower Upper
43 100
61 22.6 22.4 33.6
87 17.3 12.8 19.2





#45

1,2-Dichloropropane

Concen: 0.540 ug/l

RT: 9.747 min Scan# 11

Delta R.T. 0.124 min

Lab File: VN087253.D

Acq: 01 Jul 2025 11:36

Instrument :

MSVOA_N

ClientSampleId :

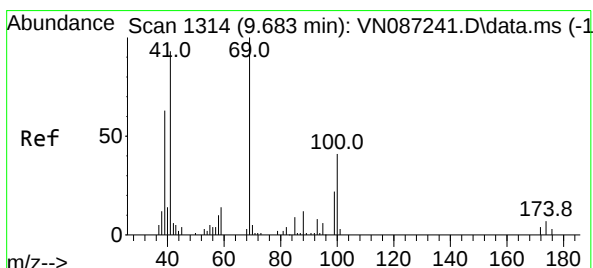
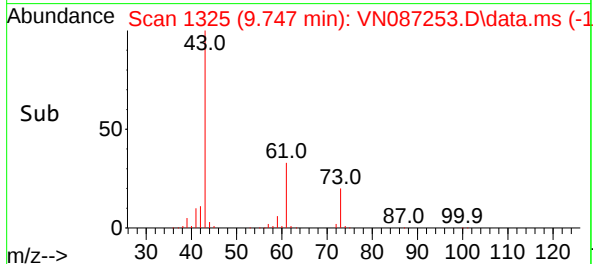
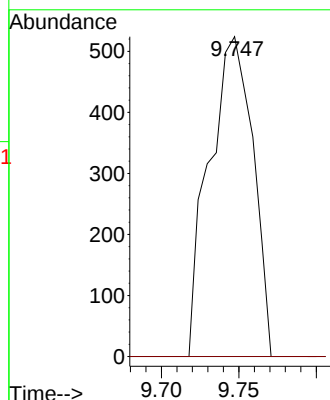
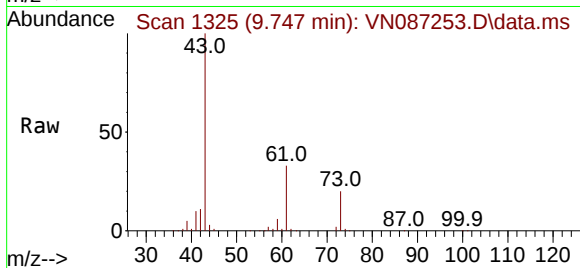
PB168653TB

Tgt Ion: 63 Resp: 1030

Ion Ratio Lower Upper

63 100

65 0.0 23.8 35.8#



#48

Methyl methacrylate

Concen: 35.294 ug/l

RT: 9.747 min Scan# 1325

Delta R.T. 0.065 min

Lab File: VN087253.D

Acq: 01 Jul 2025 11:36

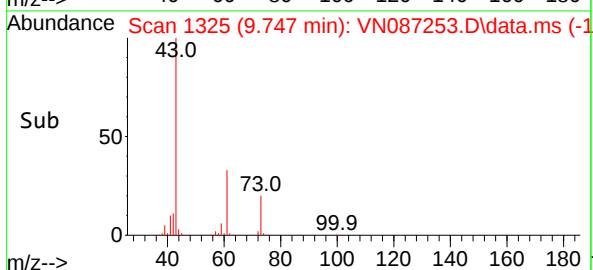
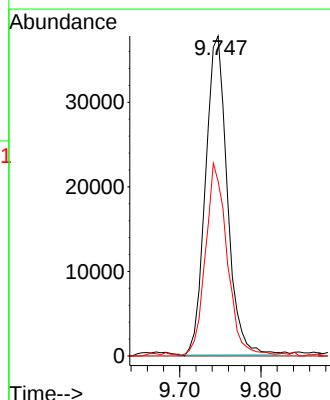
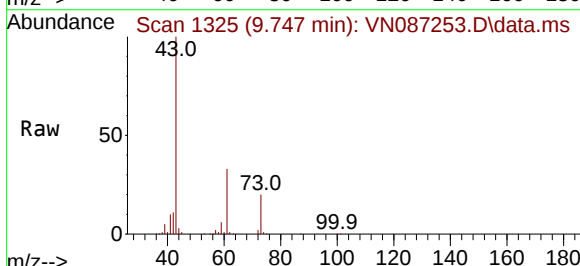
Tgt Ion: 41 Resp: 69997

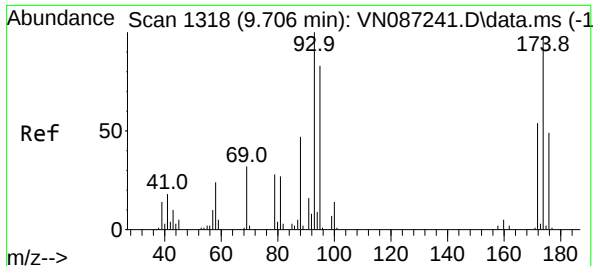
Ion Ratio Lower Upper

41 100

69 0.0 81.4 122.2#

39 60.7 56.9 85.3





#49

1,4-Dioxane

Concen: 18.014 ug/l

RT: 9.741 min Scan# 1

Delta R.T. 0.035 min

Lab File: VN087253.D

Acq: 01 Jul 2025 11:36

Instrument :

MSVOA_N

ClientSampleId :

PB168653TB

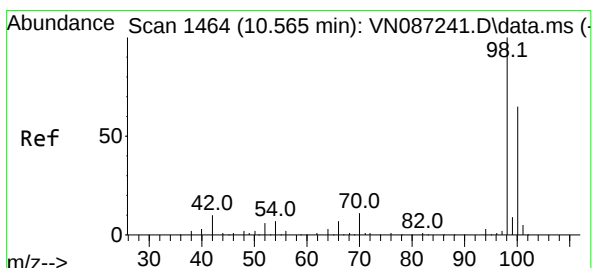
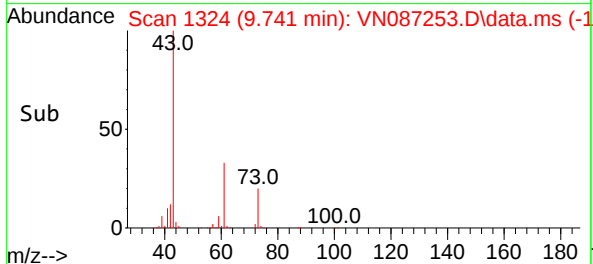
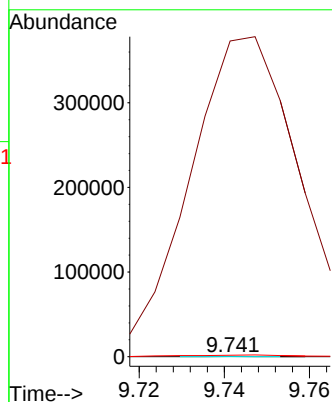
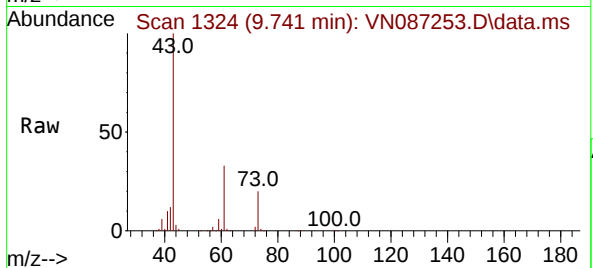
Tgt Ion: 88 Resp: 55

Ion Ratio Lower Upper

88 100

43 1317758.2 0.0 0.0#

58 6872.7 47.8 71.8#



#50

Toluene-d8

Concen: 48.677 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. 0.000 min

Lab File: VN087253.D

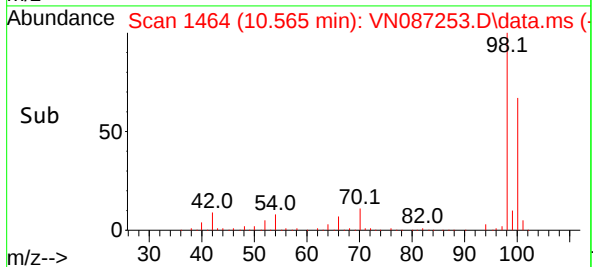
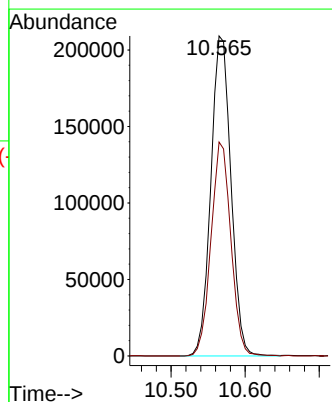
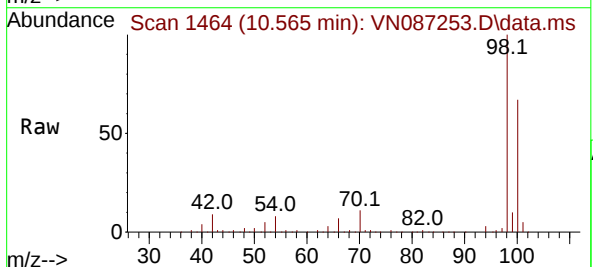
Acq: 01 Jul 2025 11:36

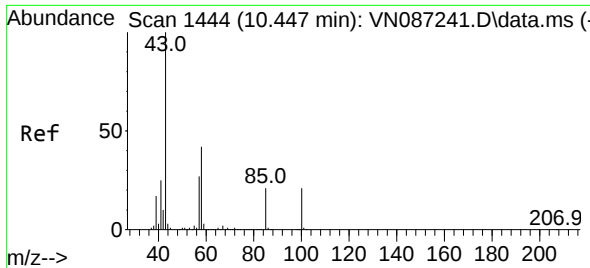
Tgt Ion: 98 Resp: 393820

Ion Ratio Lower Upper

98 100

100 66.0 52.1 78.1

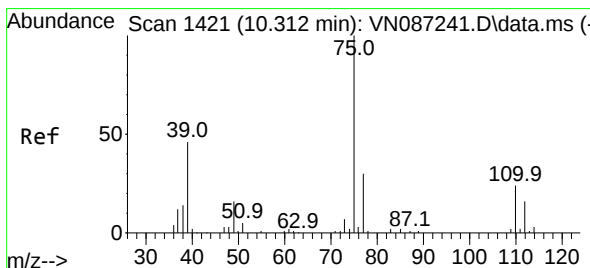
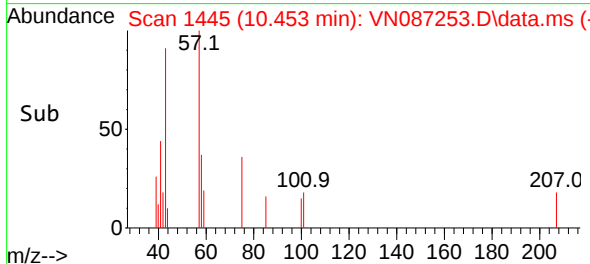
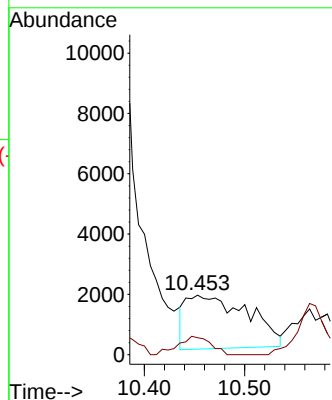
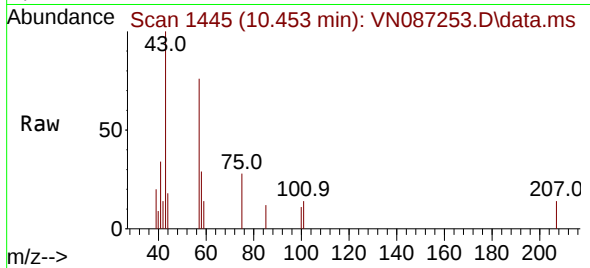




#51
4-Methyl-2-Pentanone
Concen: 2.639 ug/l
RT: 10.453 min Scan# 1444
Delta R.T. 0.006 min
Lab File: VN087253.D
Acq: 01 Jul 2025 11:36

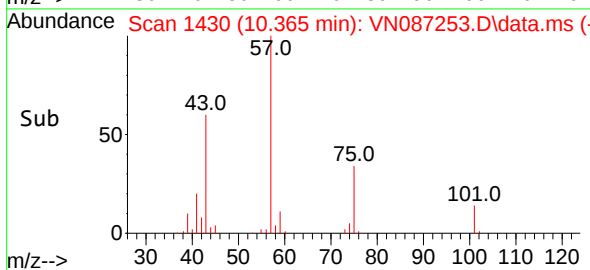
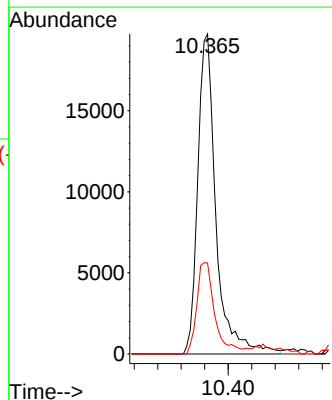
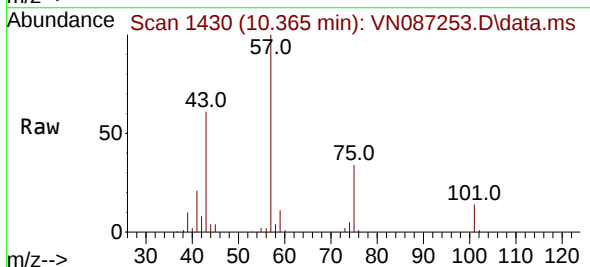
Instrument :
MSVOA_N
ClientSampleId :
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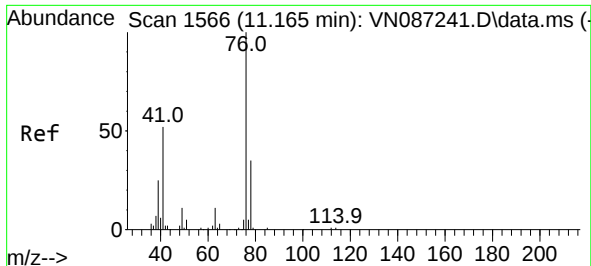
Tgt Ion: 43 Resp: 7599
Ion Ratio Lower Upper
43 100
58 17.9 34.2 51.2#



#54
cis-1,3-Dichloropropene
Concen: 12.514 ug/l
RT: 10.365 min Scan# 1430
Delta R.T. 0.053 min
Lab File: VN087253.D
Acq: 01 Jul 2025 11:36

Tgt Ion: 75 Resp: 42303
Ion Ratio Lower Upper
75 100
77 0.0 24.1 36.1#
39 28.4 36.7 55.1#

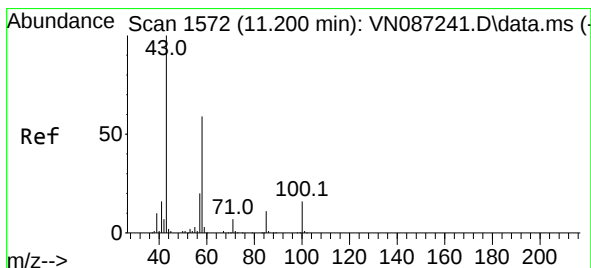
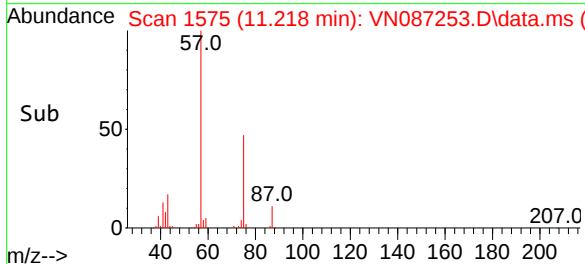
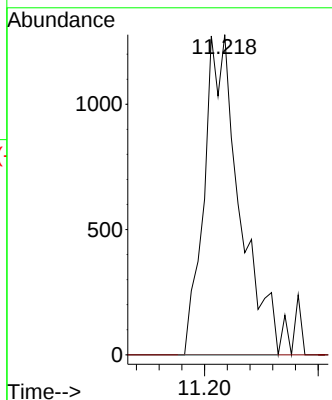
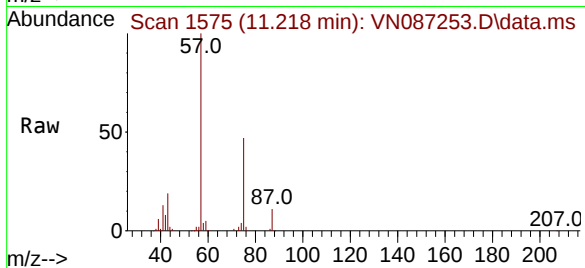




#57
1,3-Dichloropropane
Concen: 0.781 ug/l
RT: 11.218 min Scan# 1575
Delta R.T. 0.053 min
Lab File: VN087253.D
Acq: 01 Jul 2025 11:36

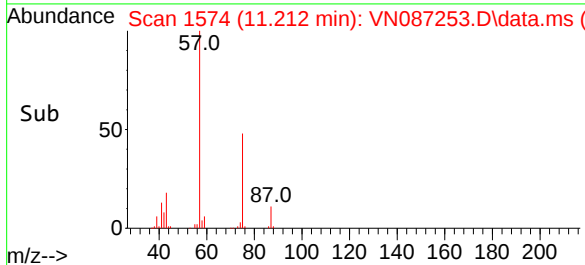
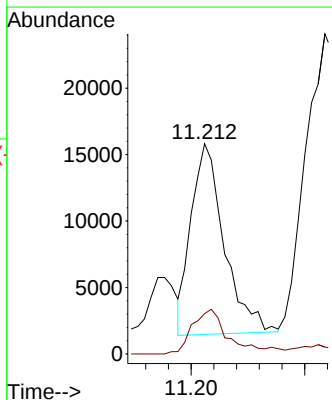
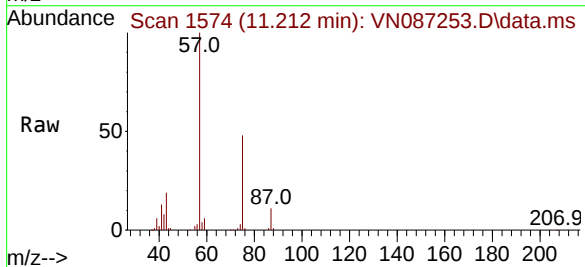
Instrument :
MSVOA_N
ClientSampleId :
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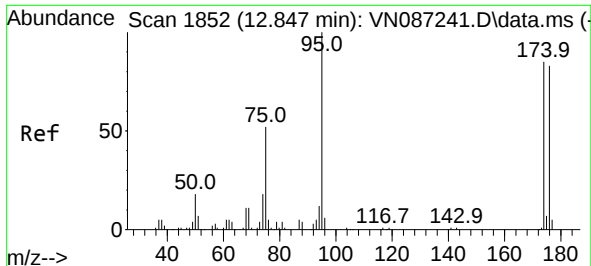
Tgt Ion: 76 Resp: 2762
Ion Ratio Lower Upper
76 100
78 0.0 27.1 40.7#



#59
2-Hexanone
Concen: 14.105 ug/l
RT: 11.212 min Scan# 1574
Delta R.T. 0.012 min
Lab File: VN087253.D
Acq: 01 Jul 2025 11:36

Tgt Ion: 43 Resp: 29089
Ion Ratio Lower Upper
43 100
58 24.6 31.1 93.3#

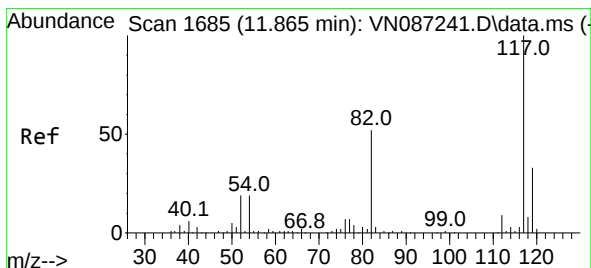
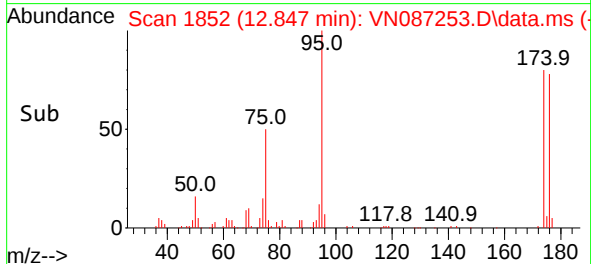
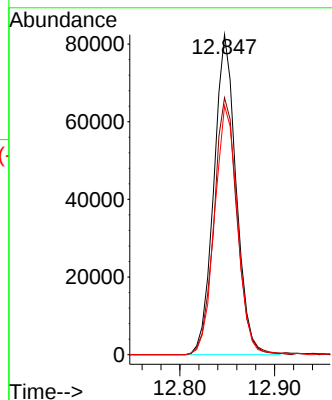
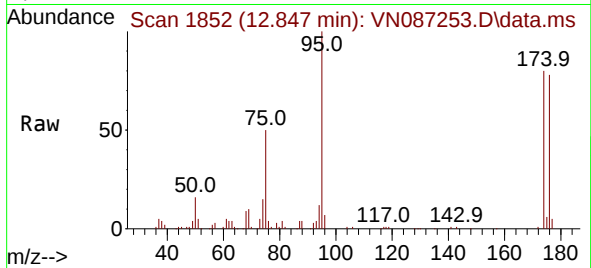




#62
4-Bromofluorobenzene
Concen: 46.674 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN087253.D
Acq: 01 Jul 2025 11:36

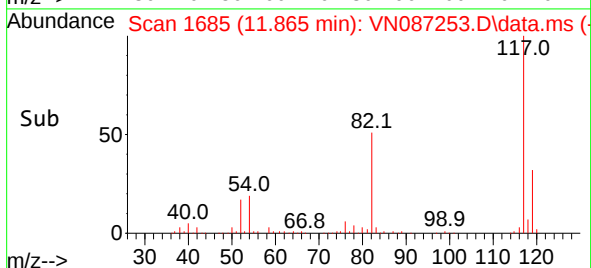
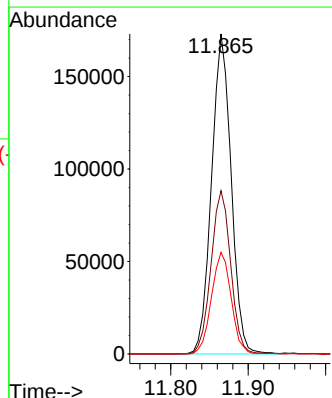
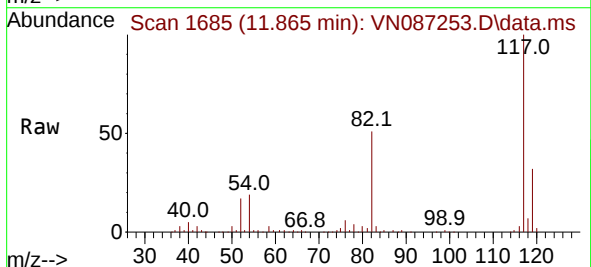
Instrument :
MSVOA_N
ClientSampleId :
PB168653TB

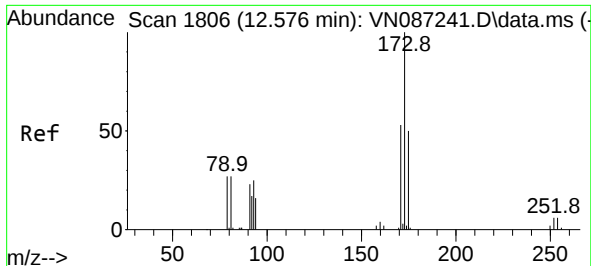
Tgt Ion: 95 Resp: 134358
Ion Ratio Lower Upper
95 100
174 83.4 0.0 169.6
176 80.7 0.0 161.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VN087253.D
Acq: 01 Jul 2025 11:36

Tgt Ion: 117 Resp: 305295
Ion Ratio Lower Upper
117 100
82 51.0 41.9 62.9
119 31.8 26.2 39.4

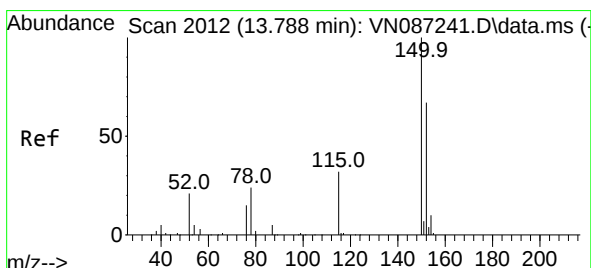
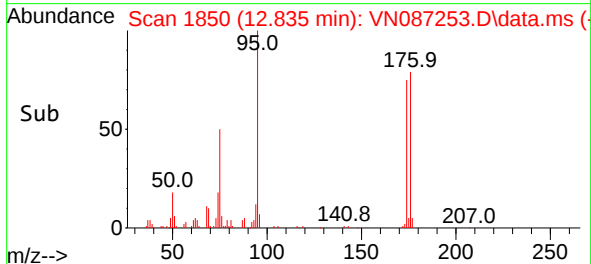
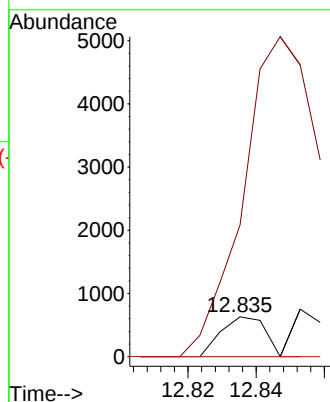
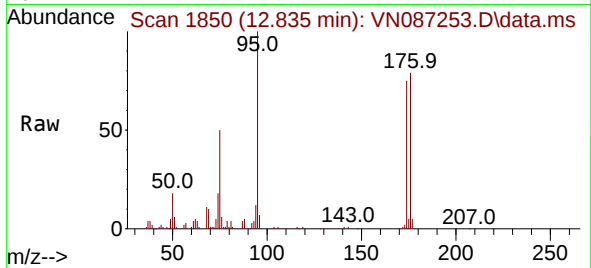




#71
Bromoform
Concen: 0.309 ug/l
RT: 12.835 min Scan# 11
Delta R.T. 0.259 min
Lab File: VN087253.D
Acq: 01 Jul 2025 11:36

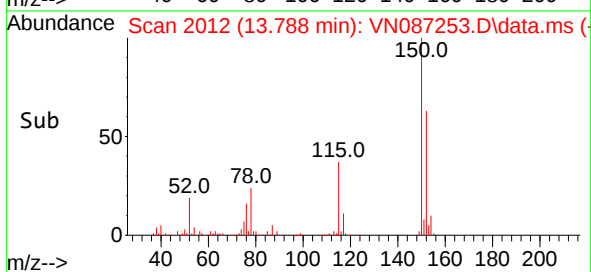
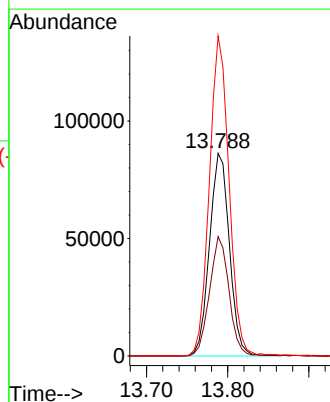
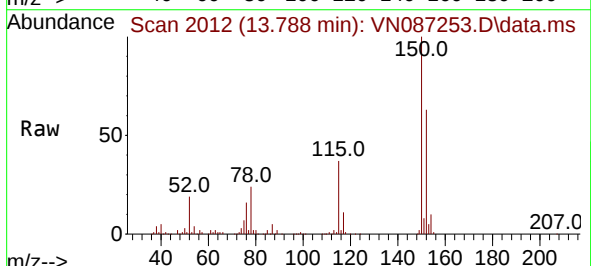
Instrument :
MSVOA_N
ClientSampleId :
PB168653TB

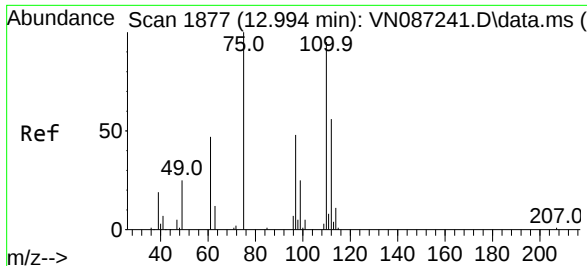
Tgt Ion:173 Resp: 564
Ion Ratio Lower Upper
173 100
175 1115.8 24.6 73.6#
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. 0.000 min
Lab File: VN087253.D
Acq: 01 Jul 2025 11:36

Tgt Ion:152 Resp: 146928
Ion Ratio Lower Upper
152 100
115 57.7 28.3 84.9
150 156.1 0.0 344.6

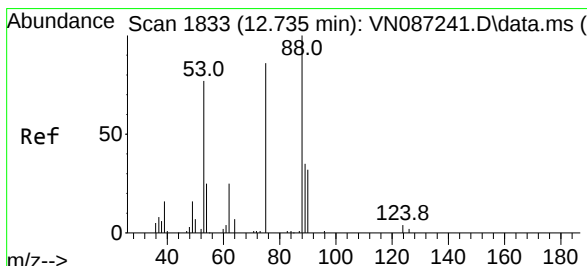
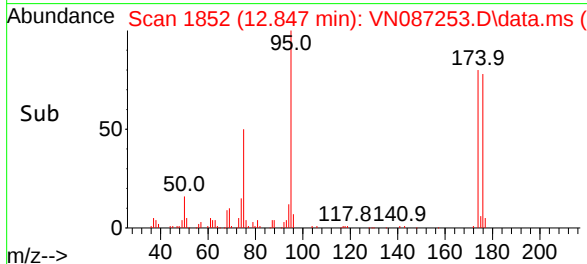
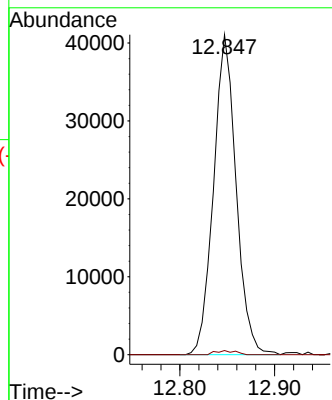
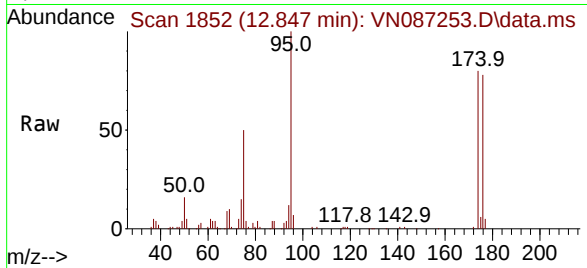




#76
1,2,3-Trichloropropane
Concen: 24.311 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN087253.D
Acq: 01 Jul 2025 11:36

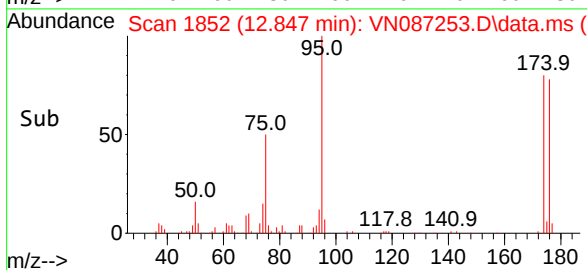
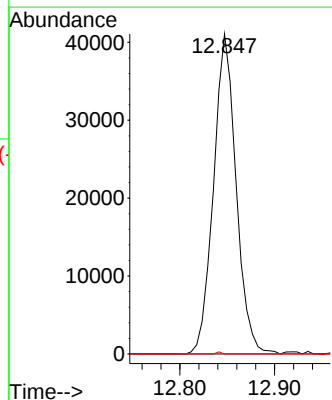
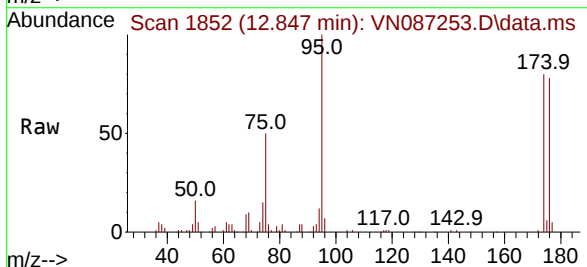
Instrument :
MSVOA_N
ClientSampleId :
PB168653TB

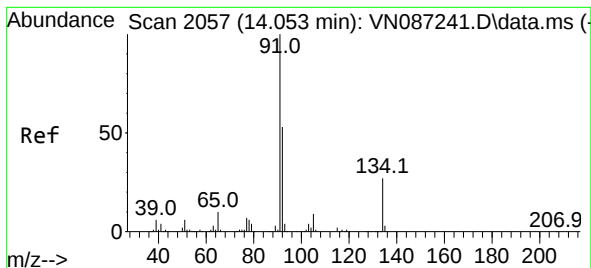
Tgt Ion: 75 Resp: 67941
Ion Ratio Lower Upper
75 100
77 1.2 82.0 245.8#



#81
trans-1,4-Dichloro-2-butene
Concen: 57.104 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN087253.D
Acq: 01 Jul 2025 11:36

Tgt Ion: 75 Resp: 67941
Ion Ratio Lower Upper
75 100
53 0.0 70.6 105.8#
89 0.1 36.1 54.1#





#89

n-Butylbenzene

Concen: 0.233 ug/l

RT: 14.053 min Scan# 2057

Delta R.T. -0.000 min

Lab File: VN087253.D

Acq: 01 Jul 2025 11:36

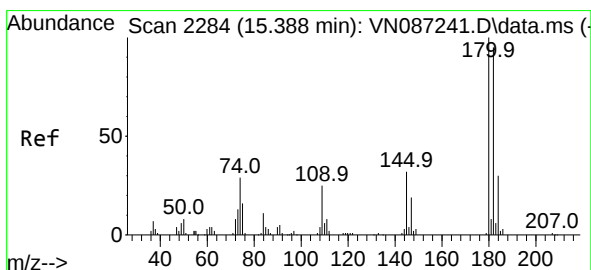
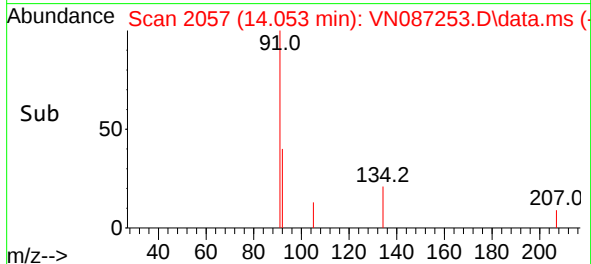
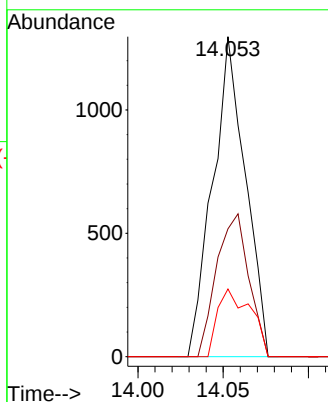
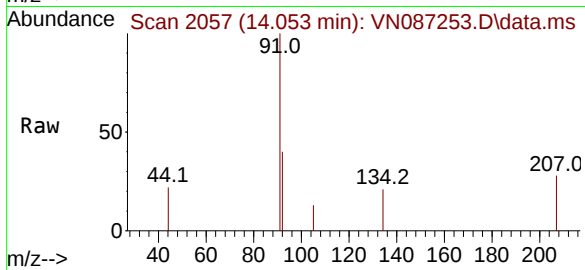
Instrument :

MSVOA_N

ClientSampleId :

PB168653TB

Tgt Ion: 91	Resp:	1735
Ion	Ratio	Lower Upper
91	100	
92	43.9	26.7 80.0
134	21.2	13.7 41.1



#93

1,2,4-Trichlorobenzene

Concen: 0.283 ug/l

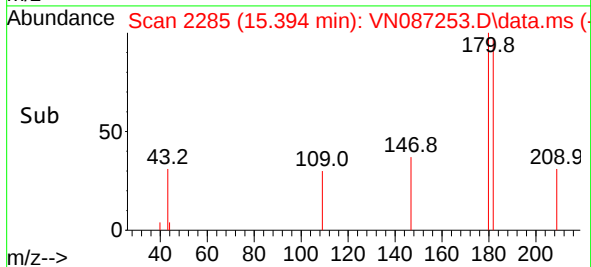
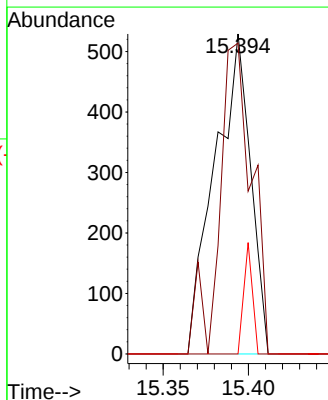
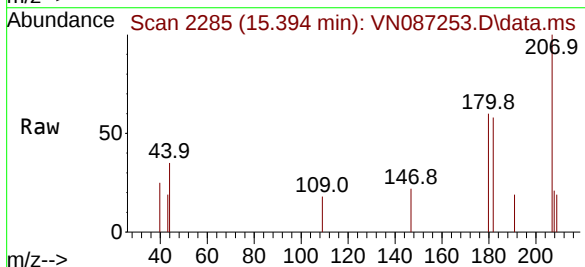
RT: 15.394 min Scan# 2285

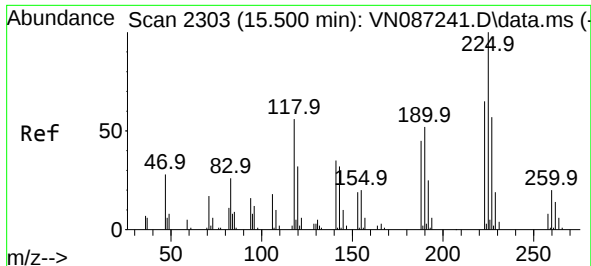
Delta R.T. 0.006 min

Lab File: VN087253.D

Acq: 01 Jul 2025 11:36

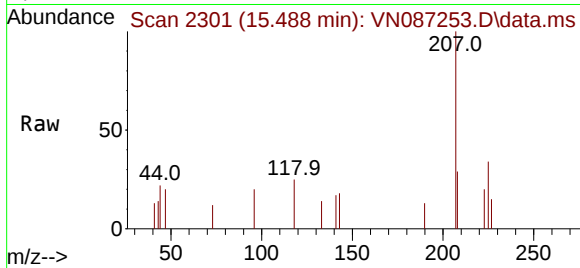
Tgt Ion: 180	Resp:	770
Ion	Ratio	Lower Upper
180	100	
182	88.3	48.0 144.0
145	8.4	15.4 46.2



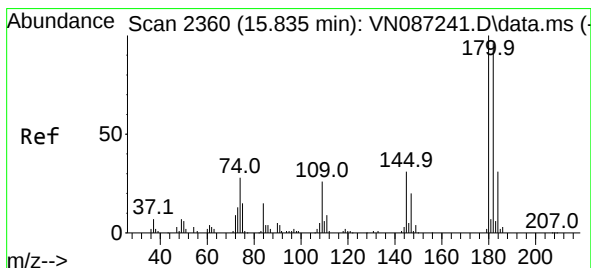
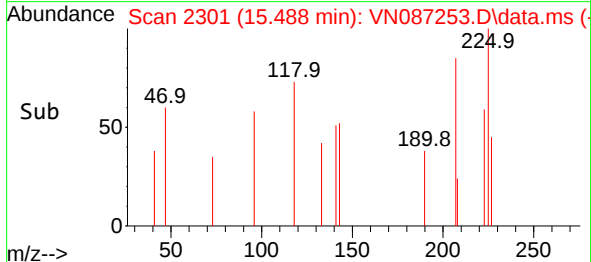
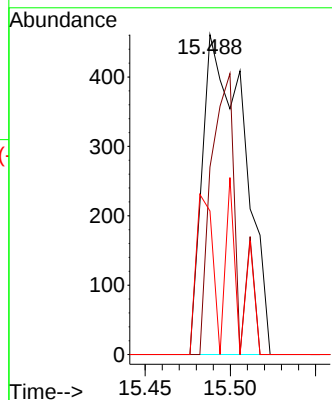


#94
Hexachlorobutadiene
Concen: 0.906 ug/l
RT: 15.488 min Scan# 21
Delta R.T. -0.012 min
Lab File: VN087253.D
Acq: 01 Jul 2025 11:36

Instrument :
MSVOA_N
ClientSampleId :
PB168653TB



Tgt Ion:225 Resp: 783
Ion Ratio Lower Upper
225 100
223 0.0 33.5 100.4#
227 19.8 30.9 92.7#



#96
1,2,3-Trichlorobenzene
Concen: 0.209 ug/l
RT: 15.841 min Scan# 2361
Delta R.T. 0.006 min
Lab File: VN087253.D
Acq: 01 Jul 2025 11:36

Tgt Ion:180 Resp: 555
Ion Ratio Lower Upper
180 100
182 53.5 47.7 143.1
145 20.0 15.7 47.1

