

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081225\
 Data File : VN087511.D
 Acq On : 12 Aug 2025 14:02
 Operator : JC\MD
 Sample : Q2827-08
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-9

Quant Time: Aug 13 03:04:19 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071625W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 17 02:56:13 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.212	168	254154	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	554937	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.847	117	520984	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	239503	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.565	65	256450	59.467	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 118.940%	
35) Dibromofluoromethane	8.153	113	188060	49.128	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 98.260%	
50) Toluene-d8	10.547	98	718328	52.606	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 105.220%	
62) 4-Bromofluorobenzene	12.829	95	263463	52.225	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 104.440%	

Target Compounds				Qvalue		
5) Bromomethane	2.977	94	427	0.244	ug/l #	20
10) Methyl Iodide	4.571	142	60	5.652	ug/l #	40
11) Tert butyl alcohol	5.530	59	271	0.331	ug/l #	72
13) Acrolein	4.183	56	236	0.359	ug/l #	20
16) Acetone	4.430	43	84153	41.619	ug/l	96
17) Carbon Disulfide	4.694	76	2043	0.237	ug/l #	71
18) Methyl Acetate	5.024	43	55628	10.950	ug/l	97
20) Methylene Chloride	5.283	84	13102	3.234	ug/l #	64
21) trans-1,2-Dichloroethene	5.777	96	746	0.228	ug/l #	58
25) 2-Butanone	7.477	43	21244	6.800	ug/l	96
29) Tetrahydrofuran	7.835	42	2321	1.144	ug/l #	82
31) Cyclohexane	8.218	56	10986	2.072	ug/l #	50
36) 1,1-Dichloropropene	8.206	75	25229	4.989	ug/l #	49
37) Ethyl Acetate	7.553	43	34409	4.711	ug/l	97
38) Carbon Tetrachloride	8.206	117	30978	5.560	ug/l #	15
39) Methylcyclohexane	9.588	83	8674	1.584	ug/l #	73
40) Benzene	8.594	78	6832	0.418	ug/l	93
43) Isopropyl Acetate	8.682	43	24084	2.124	ug/l	93
48) Methyl methacrylate	9.724	41	184499	36.145	ug/l #	46
49) 1,4-Dioxane	9.729	88	262	3.351	ug/l #	1
51) 4-Methyl-2-Pentanone	10.429	43	9581	1.336	ug/l	98
52) Toluene	10.612	92	5615	0.565	ug/l	94
54) cis-1,3-Dichloropropene	10.341	75	106973	16.337	ug/l #	68
55) 1,1,2-Trichloroethane	10.982	97	1014	0.252	ug/l #	13
56) Ethyl methacrylate	10.894	69	909	0.772	ug/l #	24
57) 1,3-Dichloropropane	11.182	76	5796	0.833	ug/l #	42
59) 2-Hexanone	11.188	43	118623	24.932	ug/l #	45
65) Chlorobenzene	11.870	112	22073	1.887	ug/l	92
68) m/p-Xylenes	12.053	106	1738	0.241	ug/l	98
71) Bromoform	12.823	173	766	0.238	ug/l #	1
73) Isopropylbenzene	12.676	105	98443	6.531	ug/l	100
76) 1,2,3-Trichloropropane	12.829	75	157594	29.343	ug/l #	1
78) n-propylbenzene	13.017	91	83858	4.422	ug/l	98
79) 2-Chlorotoluene	13.017	91	83858	7.195	ug/l #	41
80) 1,3,5-Trimethylbenzene	13.317	105	5322	0.414	ug/l	70
81) trans-1,4-Dichloro-2-b...	12.829	75	157594	80.289	ug/l #	8

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

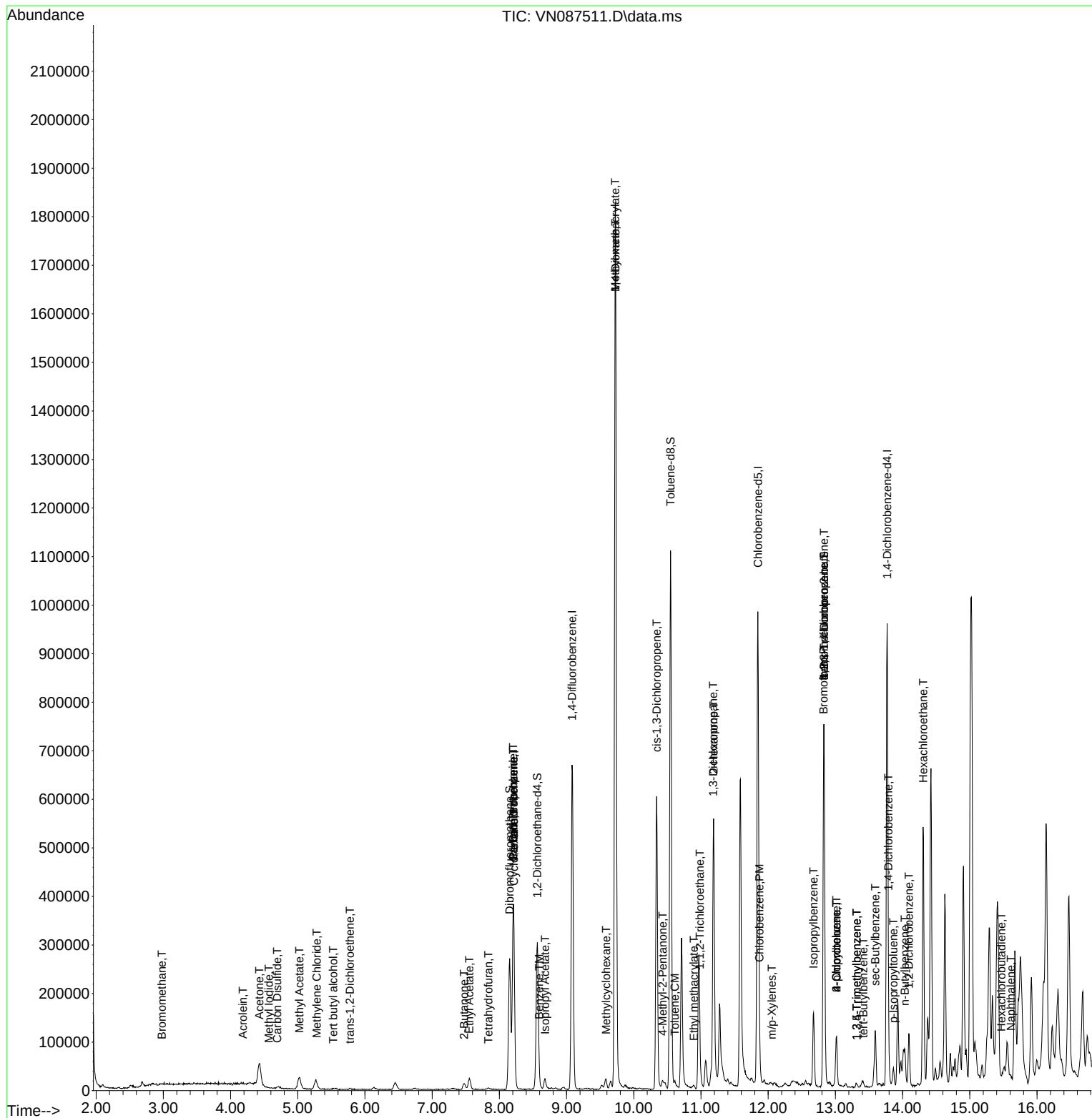
82) 4-Chlorotoluene	13.017	91	83858	6.910	ug/l #	42
83) tert-Butylbenzene	13.417	119	4818	0.449	ug/l	79
84) 1,2,4-Trimethylbenzene	13.317	105	5322	0.406	ug/l	73
85) sec-Butylbenzene	13.594	105	74000	4.580	ug/l	93
86) p-Isopropyltoluene	13.864	119	20566	1.588	ug/l	99
88) 1,4-Dichlorobenzene	13.788	146	7836	0.956	ug/l #	57
89) n-Butylbenzene	14.035	91	45758	3.701	ug/l #	81
90) Hexachloroethane	14.306	117	29702	10.826	ug/l #	17
91) 1,2-Dichlorobenzene	14.094	146	2135	0.294	ug/l	87
94) Hexachlorobutadiene	15.470	225	436	0.275	ug/l #	53
95) Naphthalene	15.611	128	6721	0.444	ug/l #	83

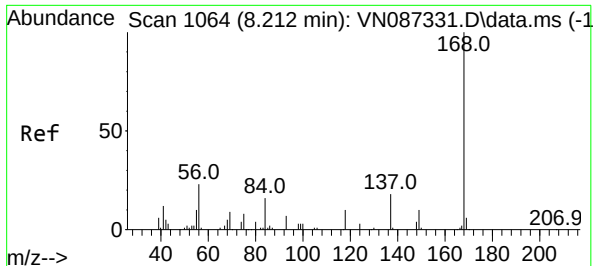
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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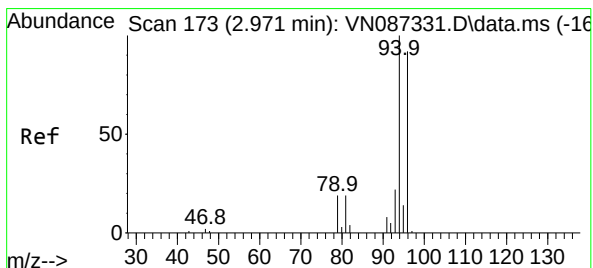
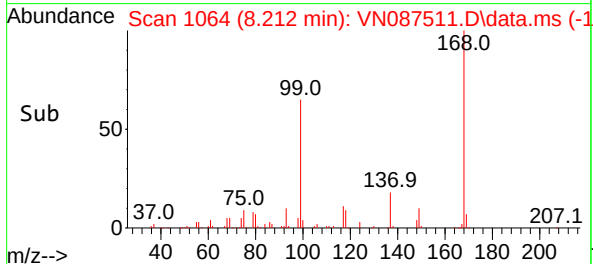
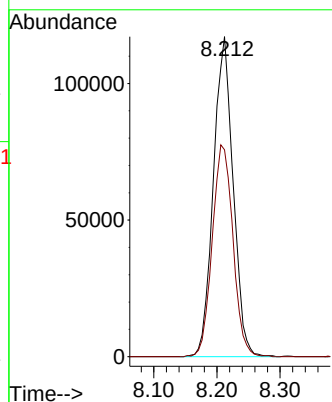
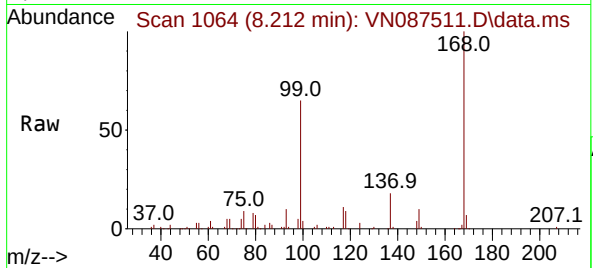




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.212 min Scan# 1064
Delta R.T. -0.000 min
Lab File: VN087511.D
Acq: 12 Aug 2025 14:02

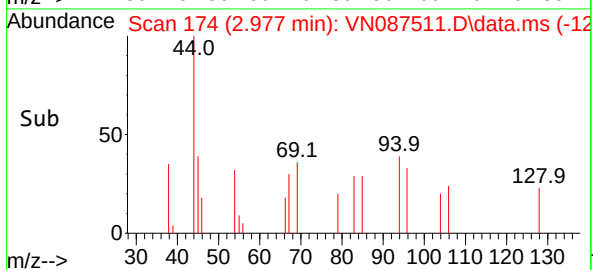
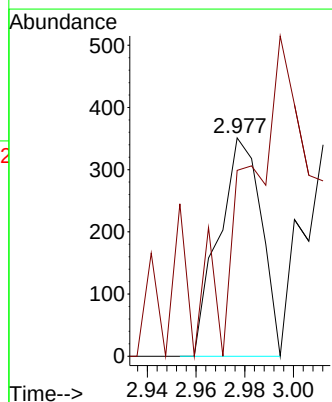
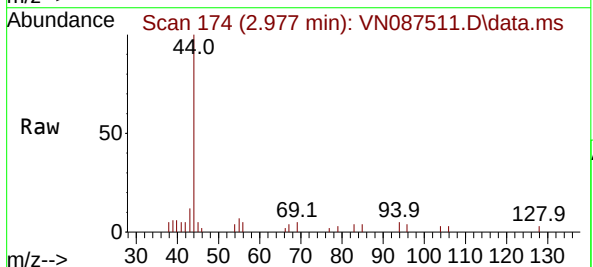
Instrument :
MSVOA_N
ClientSampleId :
TP-9

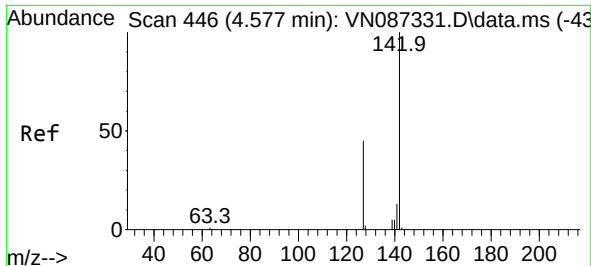
Tgt Ion:168 Resp: 254154
Ion Ratio Lower Upper
168 100
99 64.6 47.9 71.9



#5
Bromomethane
Concen: 0.244 ug/l
RT: 2.977 min Scan# 174
Delta R.T. 0.006 min
Lab File: VN087511.D
Acq: 12 Aug 2025 14:02

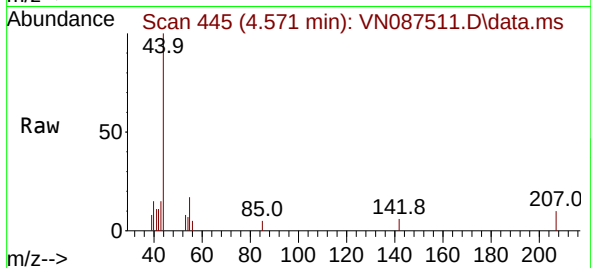
Tgt Ion: 94 Resp: 427
Ion Ratio Lower Upper
94 100
96 15.4 73.4 110.2#



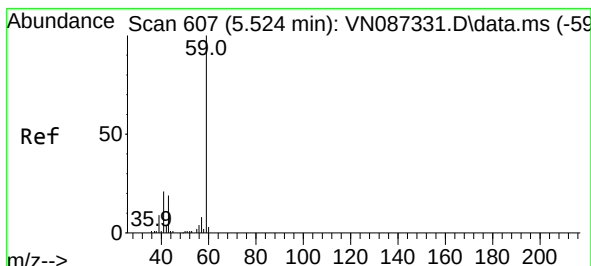
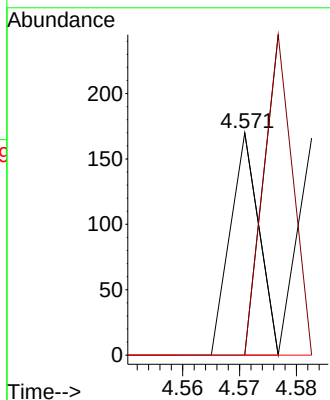
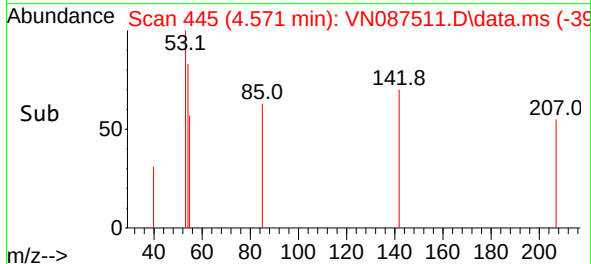


#10
Methyl Iodide
Concen: 5.652 ug/l
RT: 4.571 min Scan# 445
Delta R.T. -0.006 min
Lab File: VN087511.D
Acq: 12 Aug 2025 14:02

Instrument :
MSVOA_N
ClientSampleId :
TP-9

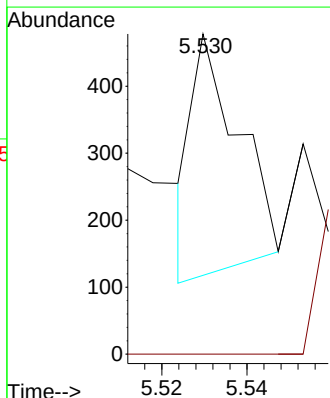
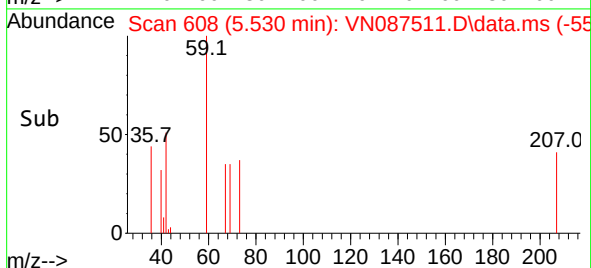
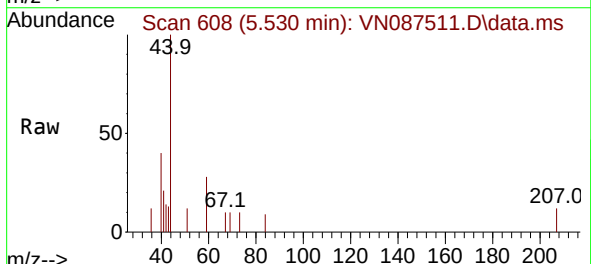


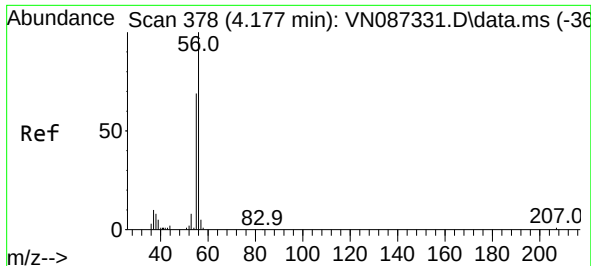
Tgt Ion:142 Resp: 60
Ion Ratio Lower Upper
142 100
127 0.0 35.7 53.5#
141 0.0 10.4 15.6#



#11
Tert butyl alcohol
Concen: 0.331 ug/l
RT: 5.530 min Scan# 608
Delta R.T. 0.006 min
Lab File: VN087511.D
Acq: 12 Aug 2025 14:02

Tgt Ion: 59 Resp: 271
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#





#13

Acrolein

Concen: 0.359 ug/l

RT: 4.183 min Scan# 31

Delta R.T. 0.006 min

Lab File: VN087511.D

Acq: 12 Aug 2025 14:02

Instrument :

MSVOA_N

ClientSampleId :

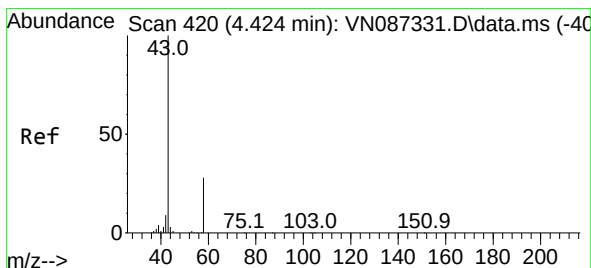
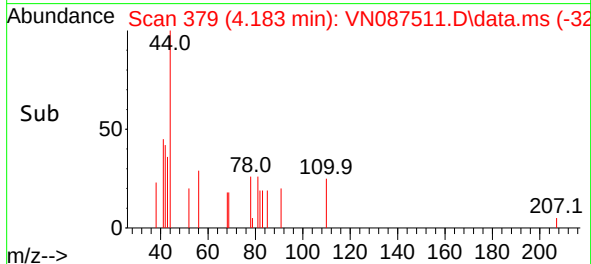
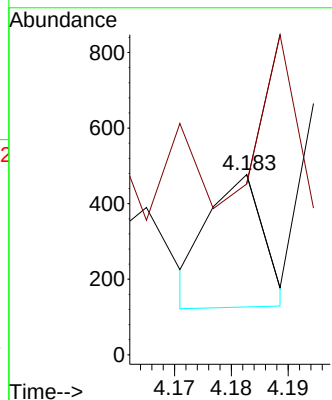
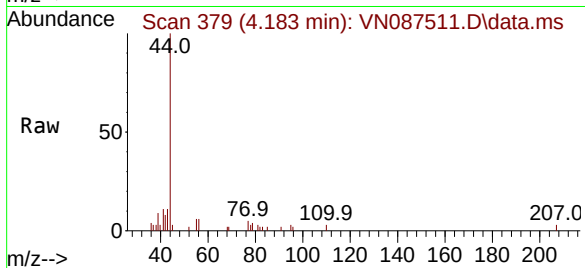
TP-9

Tgt Ion: 56 Resp: 236

Ion Ratio Lower Upper

56 100

55 136.0 56.2 84.4#



#16

Acetone

Concen: 41.619 ug/l

RT: 4.430 min Scan# 421

Delta R.T. 0.006 min

Lab File: VN087511.D

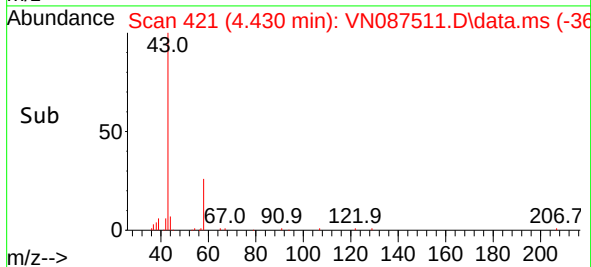
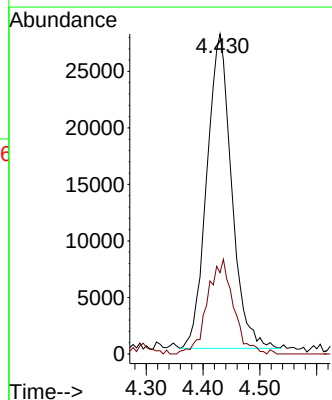
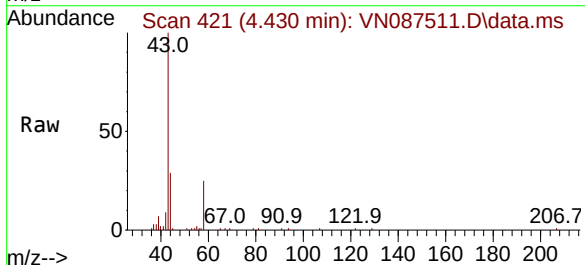
Acq: 12 Aug 2025 14:02

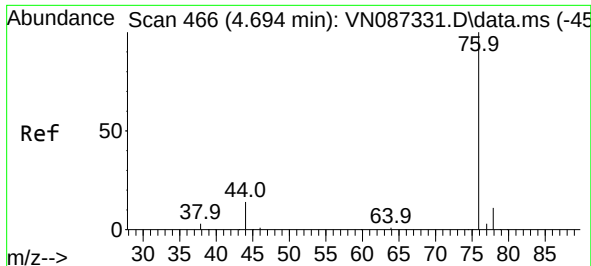
Tgt Ion: 43 Resp: 84153

Ion Ratio Lower Upper

43 100

58 25.9 22.3 33.5

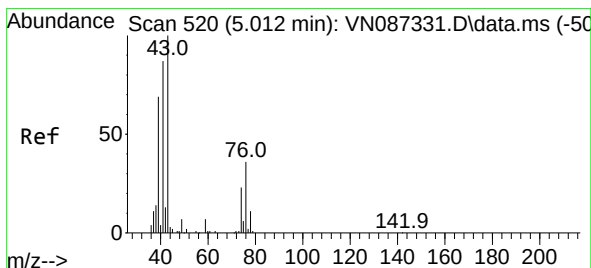
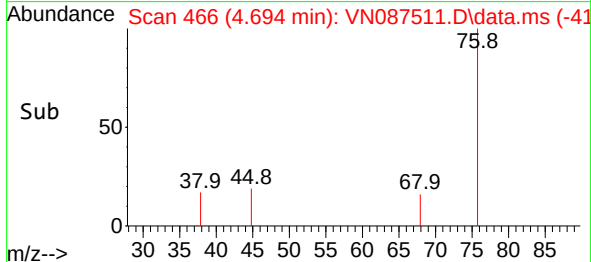
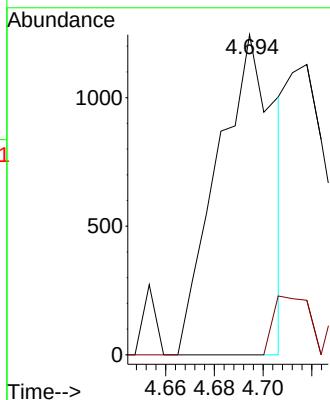
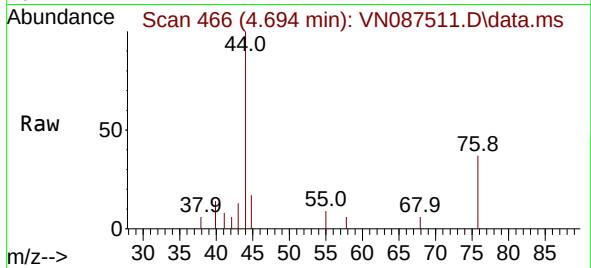




#17
Carbon Disulfide
Concen: 0.237 ug/l
RT: 4.694 min Scan# 466
Delta R.T. 0.000 min
Lab File: VN087511.D
Acq: 12 Aug 2025 14:02

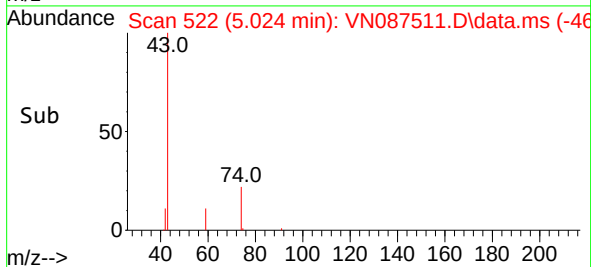
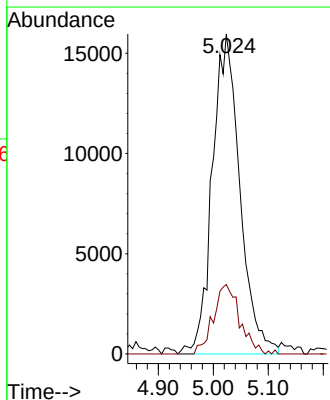
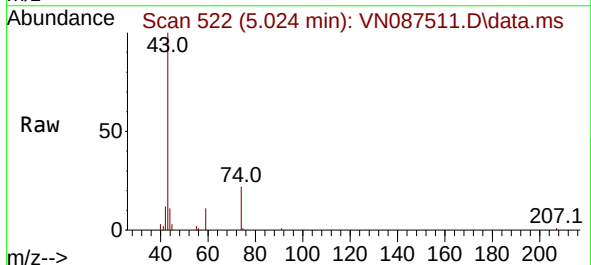
Instrument :
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TP-9

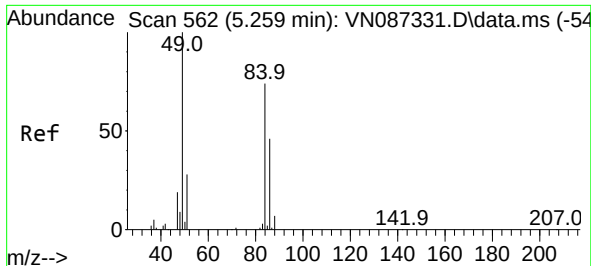
Tgt Ion: 76 Resp: 2043
Ion Ratio Lower Upper
76 100
78 0.0 8.6 13.0#



#18
Methyl Acetate
Concen: 10.950 ug/l
RT: 5.024 min Scan# 522
Delta R.T. 0.012 min
Lab File: VN087511.D
Acq: 12 Aug 2025 14:02

Tgt Ion: 43 Resp: 55628
Ion Ratio Lower Upper
43 100
74 20.7 17.8 26.6

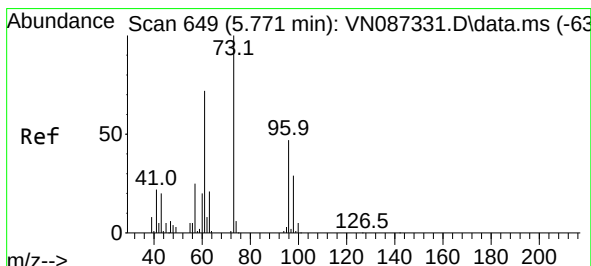
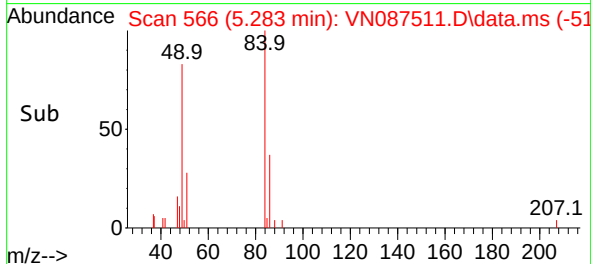
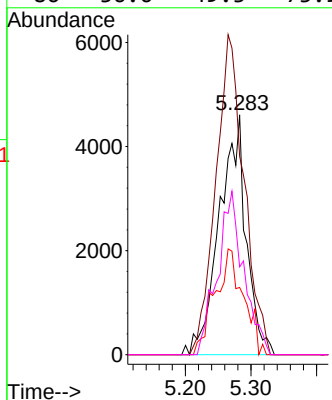
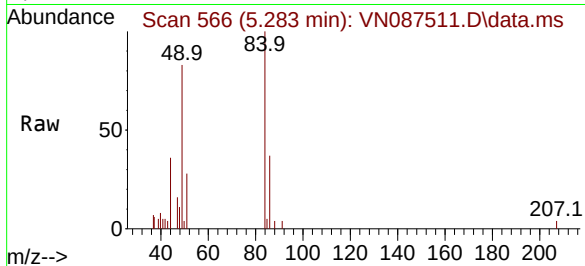




#20
Methylene Chloride
Concen: 3.234 ug/l
RT: 5.283 min Scan# 51
Delta R.T. 0.024 min
Lab File: VN087511.D
Acq: 12 Aug 2025 14:02

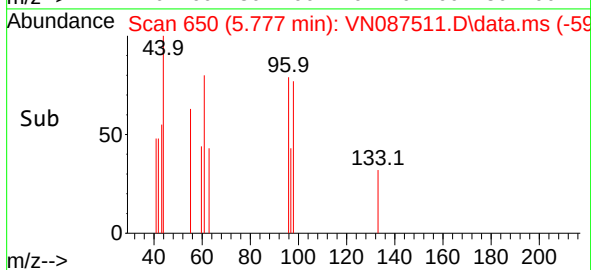
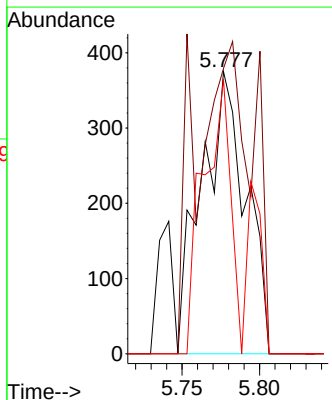
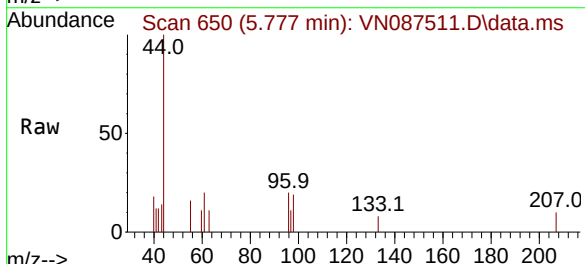
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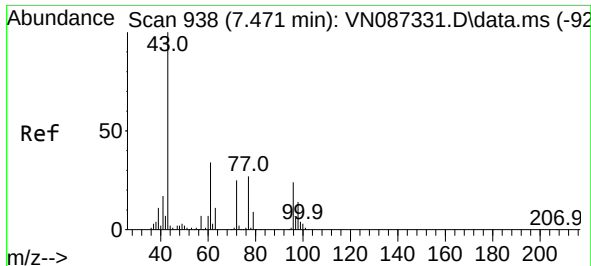
Tgt Ion: 84 Resp: 13102
Ion Ratio Lower Upper
84 100
49 82.8 107.5 161.3#
51 28.0 30.2 45.2#
86 36.6 49.3 73.9#



#21
trans-1,2-Dichloroethene
Concen: 0.228 ug/l
RT: 5.777 min Scan# 650
Delta R.T. 0.006 min
Lab File: VN087511.D
Acq: 12 Aug 2025 14:02

Tgt Ion: 96 Resp: 746
Ion Ratio Lower Upper
96 100
61 101.1 122.0 183.0#
98 97.3 50.0 75.0#

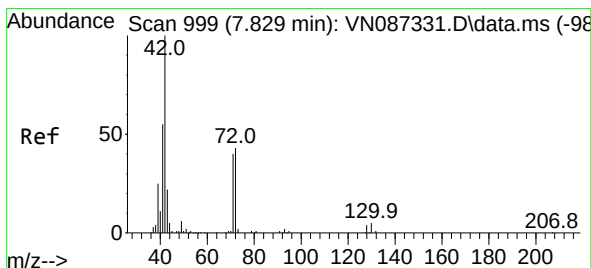
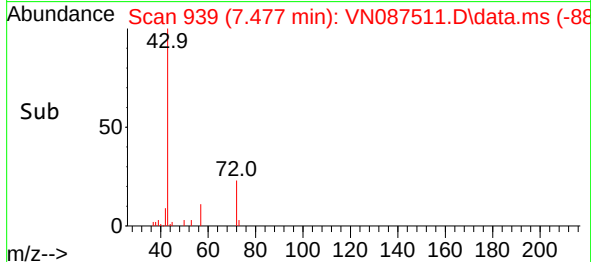
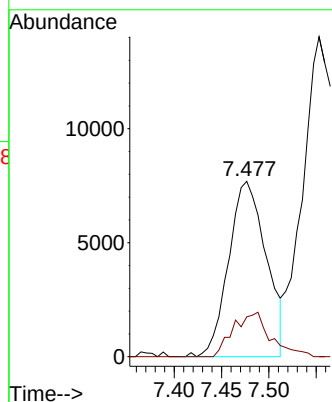
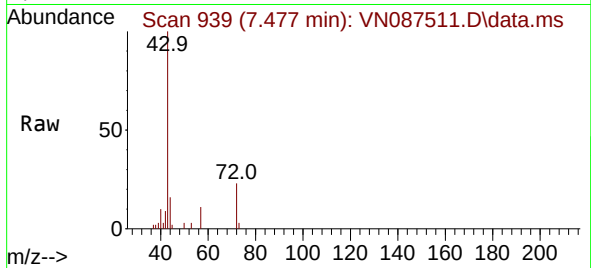




#25
2-Butanone
Concen: 6.800 ug/l
RT: 7.477 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN087511.D
Acq: 12 Aug 2025 14:02

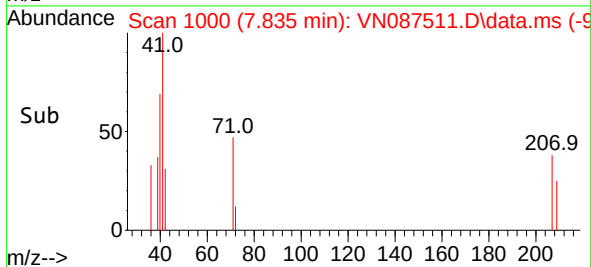
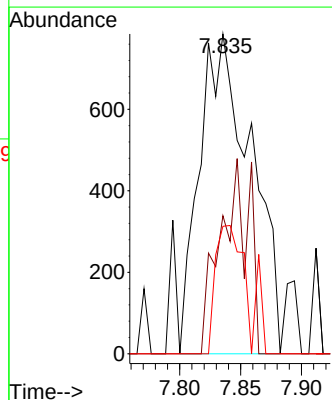
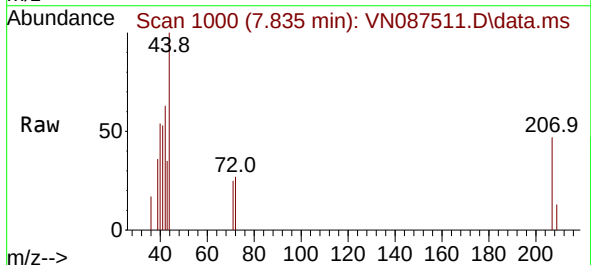
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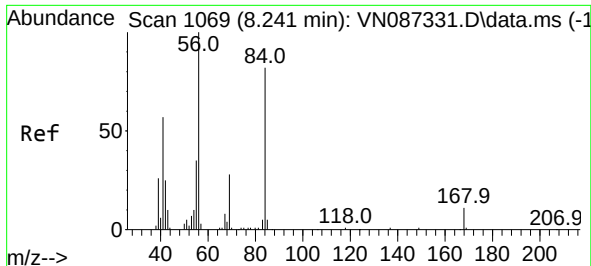
Tgt Ion: 43 Resp: 21244
Ion Ratio Lower Upper
43 100
72 22.7 19.6 29.4



#29
Tetrahydrofuran
Concen: 1.144 ug/l
RT: 7.835 min Scan# 1000
Delta R.T. 0.006 min
Lab File: VN087511.D
Acq: 12 Aug 2025 14:02

Tgt Ion: 42 Resp: 2321
Ion Ratio Lower Upper
42 100
72 33.6 33.4 50.0
71 24.5 31.2 46.8#

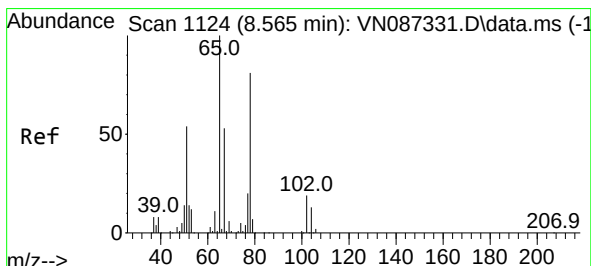
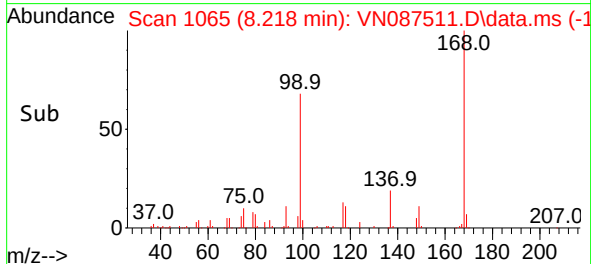
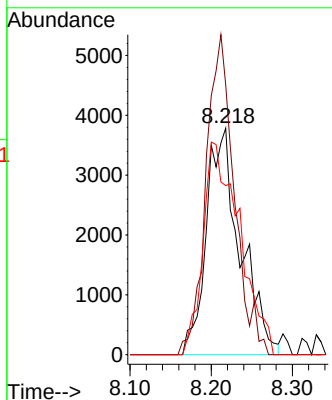
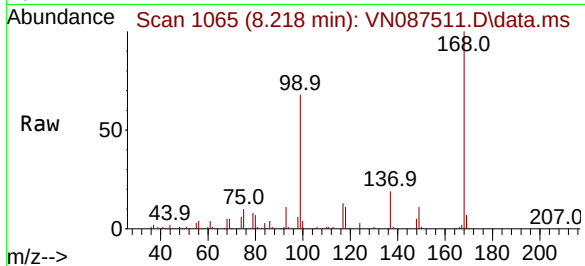




#31
Cyclohexane
Concen: 2.072 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.024 min
Lab File: VN087511.D
Acq: 12 Aug 2025 14:02

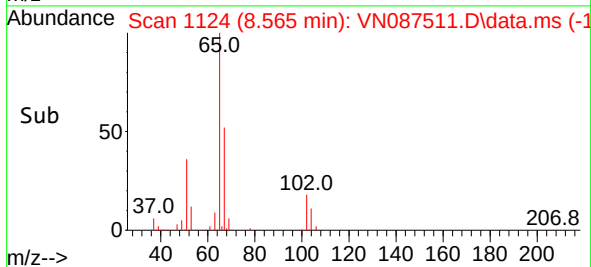
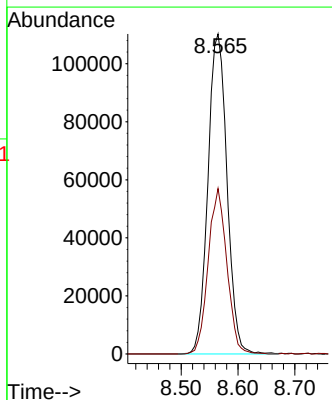
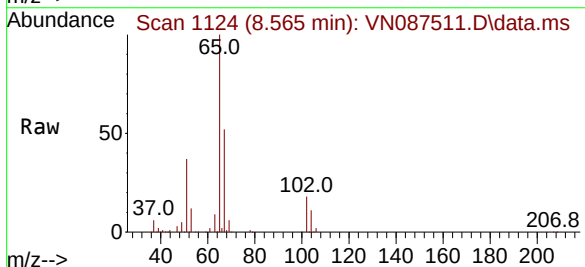
Instrument :
MSVOA_N
ClientSampleId :
TP-9

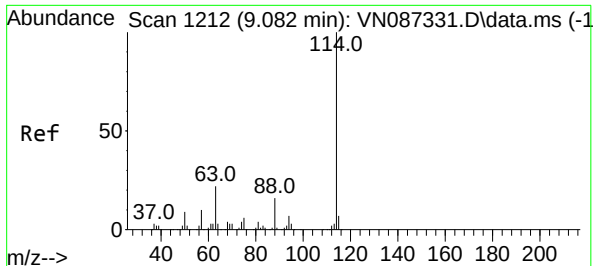
Tgt Ion: 56 Resp: 10986
Ion Ratio Lower Upper
56 100
69 119.0 22.7 34.1#
84 74.7 65.8 98.6



#33
1,2-Dichloroethane-d4
Concen: 59.467 ug/l
RT: 8.565 min Scan# 1124
Delta R.T. 0.000 min
Lab File: VN087511.D
Acq: 12 Aug 2025 14:02

Tgt Ion: 65 Resp: 256450
Ion Ratio Lower Upper
65 100
67 50.7 0.0 104.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.082 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN087511.D

Acq: 12 Aug 2025 14:02

Instrument :

MSVOA_N

ClientSampleId :

TP-9

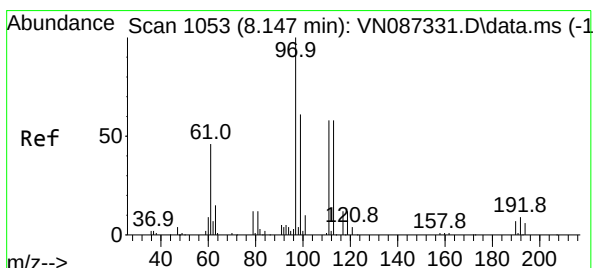
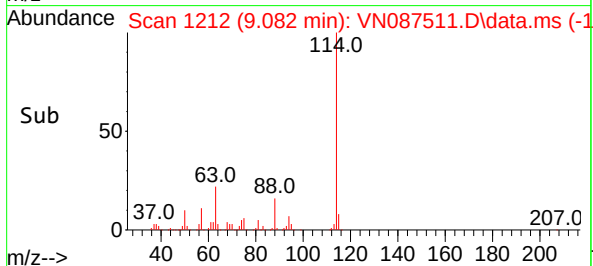
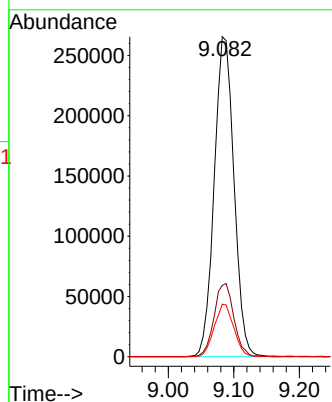
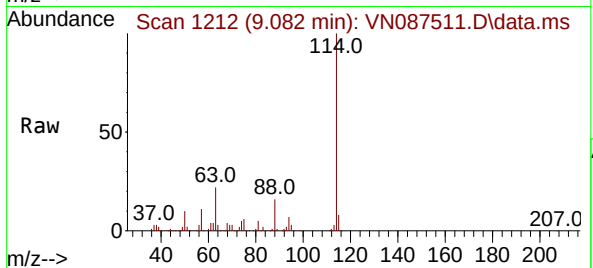
Tgt Ion:114 Resp: 554937

Ion Ratio Lower Upper

114 100

63 22.3 0.0 44.6

88 16.4 0.0 32.8



#35

Dibromofluoromethane

Concen: 49.128 ug/l

RT: 8.153 min Scan# 1054

Delta R.T. 0.006 min

Lab File: VN087511.D

Acq: 12 Aug 2025 14:02

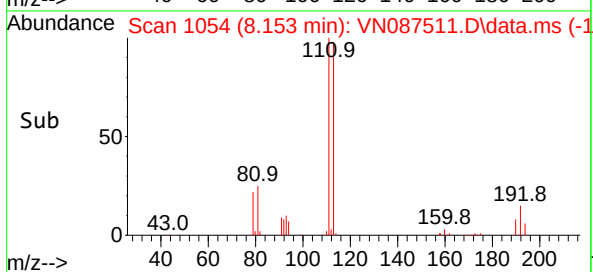
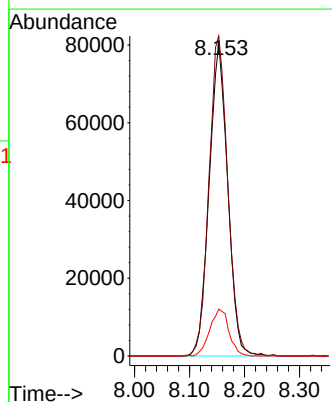
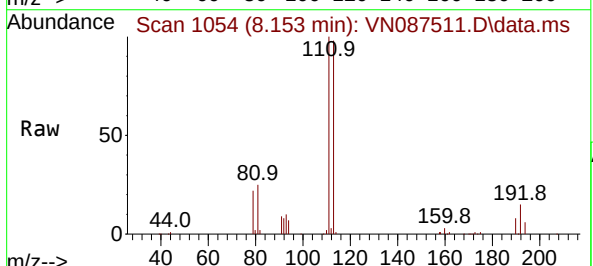
Tgt Ion:113 Resp: 188060

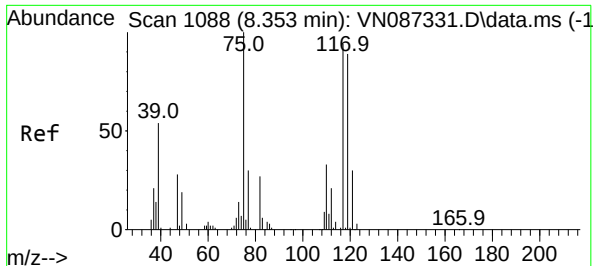
Ion Ratio Lower Upper

113 100

111 103.8 82.5 123.7

192 15.5 13.7 20.5





#36

1,1-Dichloropropene

Concen: 4.989 ug/l

RT: 8.206 min Scan# 1063

Delta R.T. -0.147 min

Lab File: VN087511.D

Acq: 12 Aug 2025 14:02

Instrument :

MSVOA_N

ClientSampleId :

TP-9

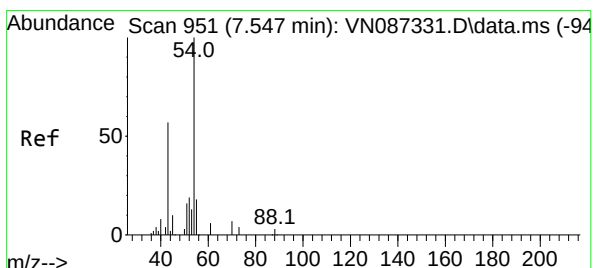
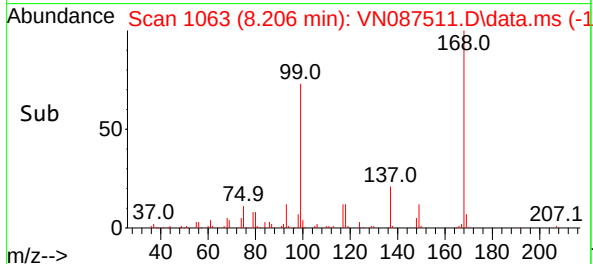
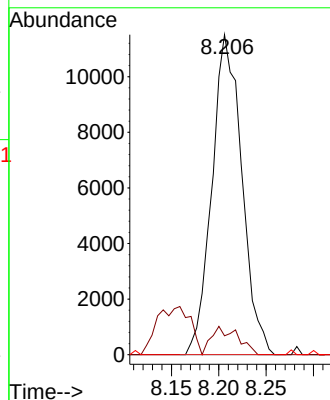
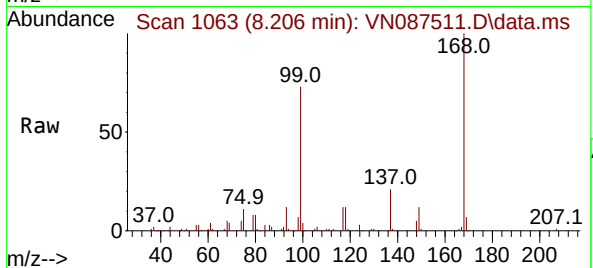
Tgt Ion: 75 Resp: 25229

Ion Ratio Lower Upper

75 100

110 7.8 16.7 50.1#

77 0.0 25.2 37.8#



#37

Ethyl Acetate

Concen: 4.711 ug/l

RT: 7.553 min Scan# 952

Delta R.T. 0.006 min

Lab File: VN087511.D

Acq: 12 Aug 2025 14:02

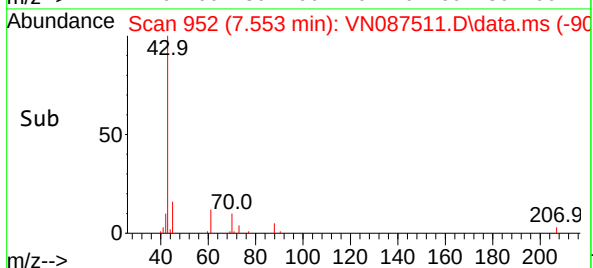
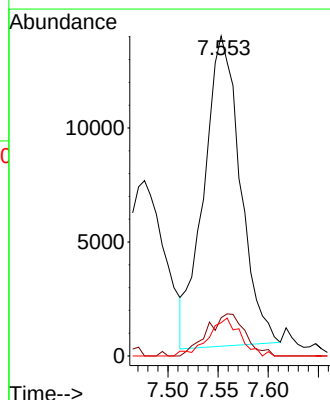
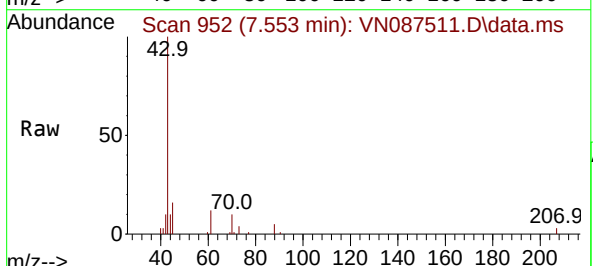
Tgt Ion: 43 Resp: 34409

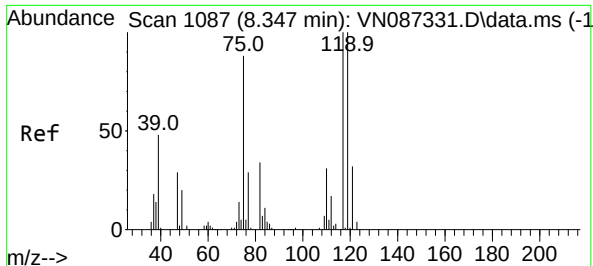
Ion Ratio Lower Upper

43 100

61 14.2 10.9 16.3

70 10.8 7.4 11.0

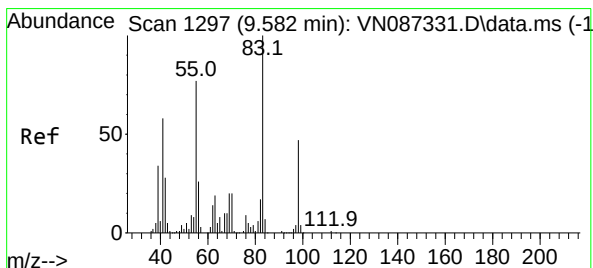
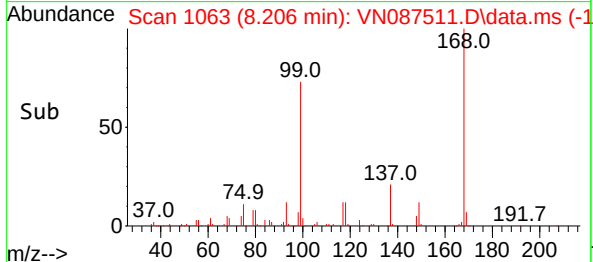
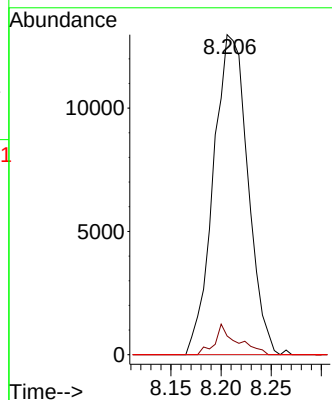
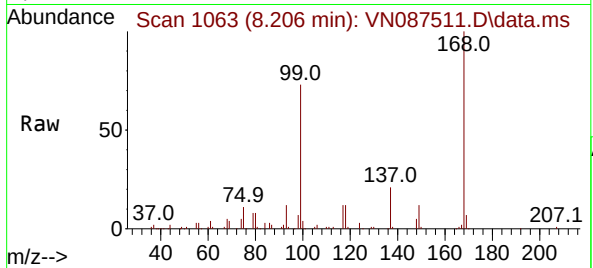




#38
Carbon Tetrachloride
Concen: 5.560 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. -0.141 min
Lab File: VN087511.D
Acq: 12 Aug 2025 14:02

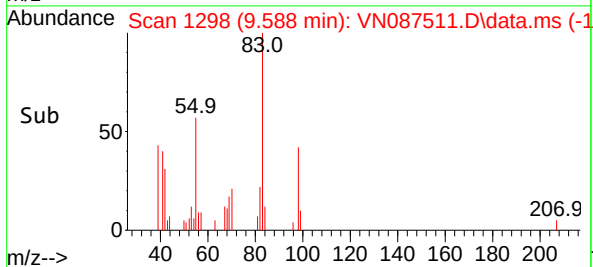
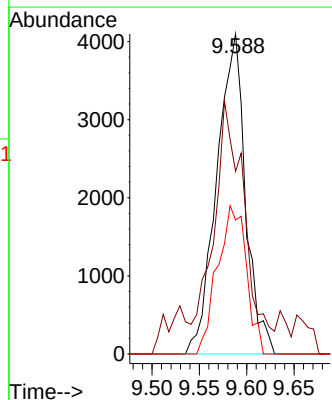
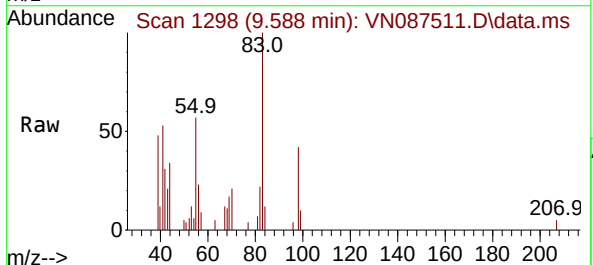
Instrument :
MSVOA_N
ClientSampleId :
TP-9

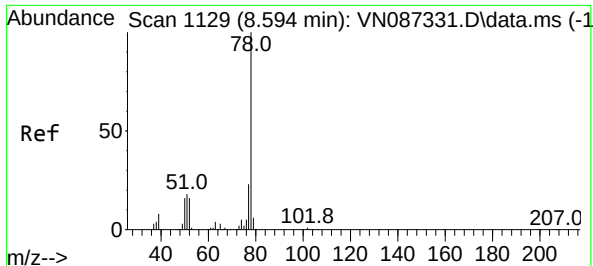
Tgt Ion:117 Resp: 30978
Ion Ratio Lower Upper
117 100
119 5.8 80.2 120.2#
121 0.0 25.4 38.2#



#39
Methylcyclohexane
Concen: 1.584 ug/l
RT: 9.588 min Scan# 1298
Delta R.T. 0.006 min
Lab File: VN087511.D
Acq: 12 Aug 2025 14:02

Tgt Ion: 83 Resp: 8674
Ion Ratio Lower Upper
83 100
55 43.5 61.3 91.9#
98 41.9 37.9 56.9

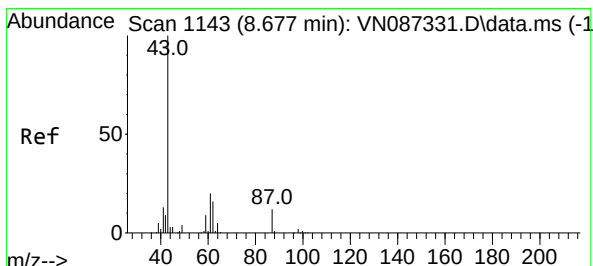
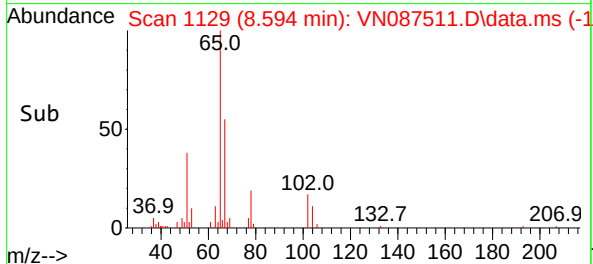
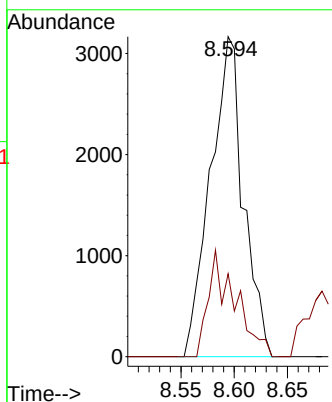
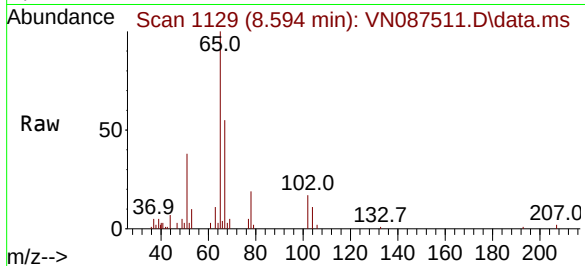




#40
Benzene
Concen: 0.418 ug/l
RT: 8.594 min Scan# 1129
Delta R.T. 0.000 min
Lab File: VN087511.D
Acq: 12 Aug 2025 14:02

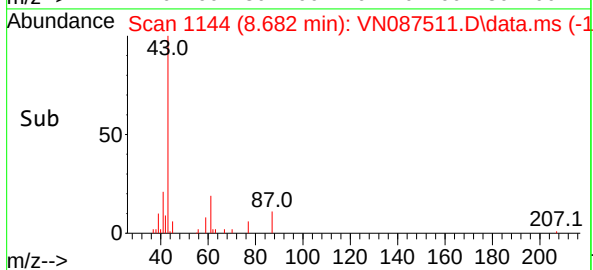
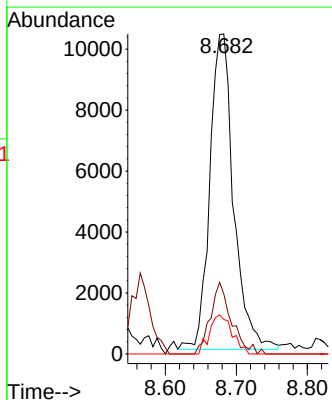
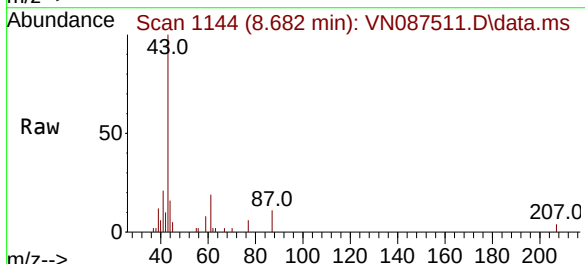
Instrument :
MSVOA_N
ClientSampleId :
TP-9

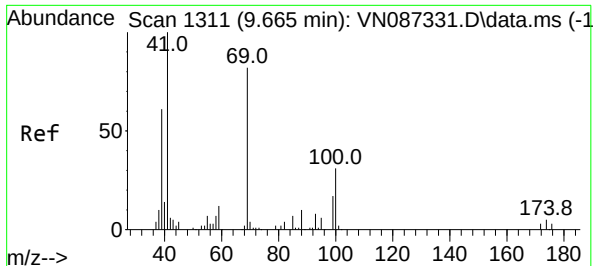
Tgt Ion: 78 Resp: 6832
Ion Ratio Lower Upper
78 100
77 25.9 18.2 27.2



#43
Isopropyl Acetate
Concen: 2.124 ug/l
RT: 8.682 min Scan# 1144
Delta R.T. 0.005 min
Lab File: VN087511.D
Acq: 12 Aug 2025 14:02

Tgt Ion: 43 Resp: 24084
Ion Ratio Lower Upper
43 100
61 20.0 19.8 29.8
87 11.7 9.8 14.6





#48

Methyl methacrylate

Concen: 36.145 ug/l

RT: 9.724 min Scan# 11

Delta R.T. 0.059 min

Lab File: VN087511.D

Acq: 12 Aug 2025 14:02

Instrument :

MSVOA_N

ClientSampleId :

TP-9

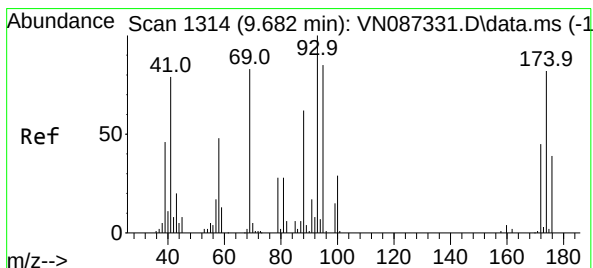
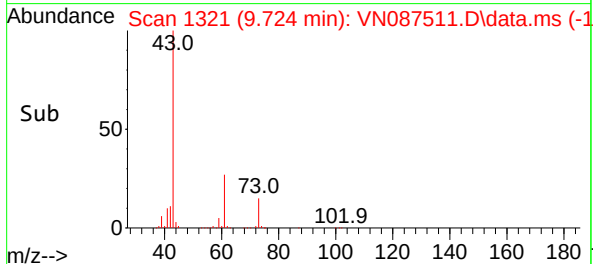
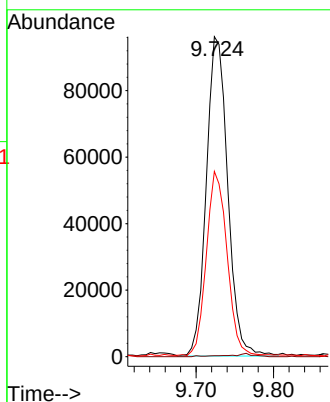
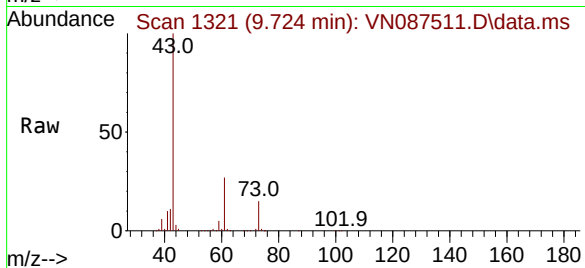
Tgt Ion: 41 Resp: 184499

Ion Ratio Lower Upper

41 100

69 0.0 64.1 96.1#

39 55.3 45.5 68.3



#49

1,4-Dioxane

Concen: 3.351 ug/l

RT: 9.729 min Scan# 1322

Delta R.T. 0.047 min

Lab File: VN087511.D

Acq: 12 Aug 2025 14:02

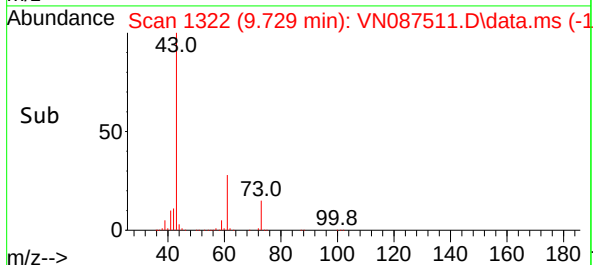
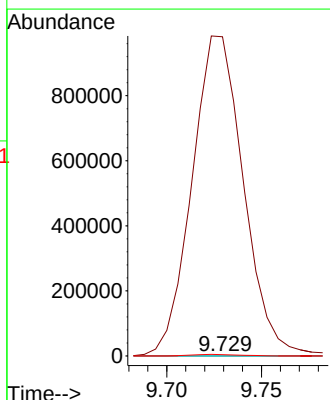
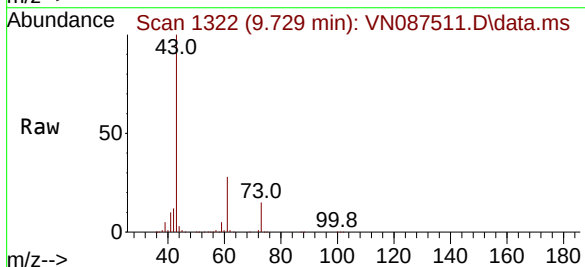
Tgt Ion: 88 Resp: 262

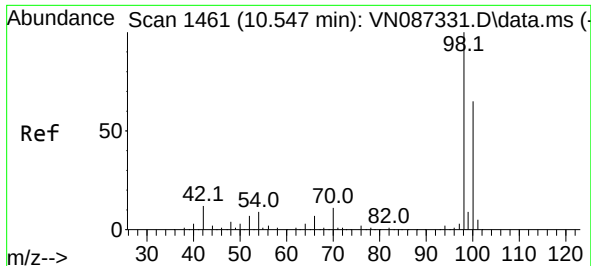
Ion Ratio Lower Upper

88 100

43 717965.3 0.0 0.0#

58 3215.3 61.1 91.7#

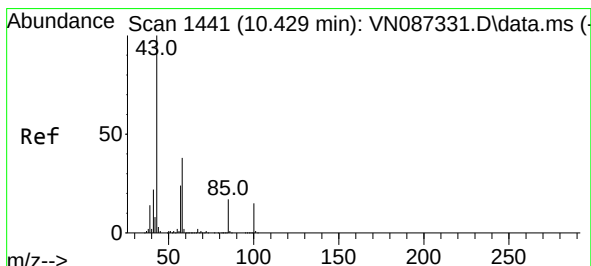
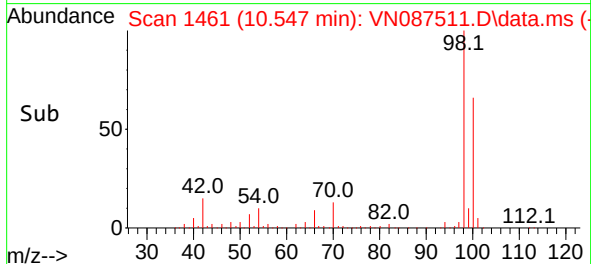
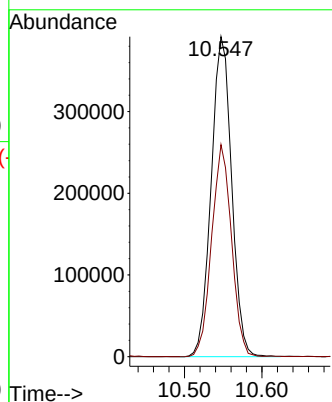
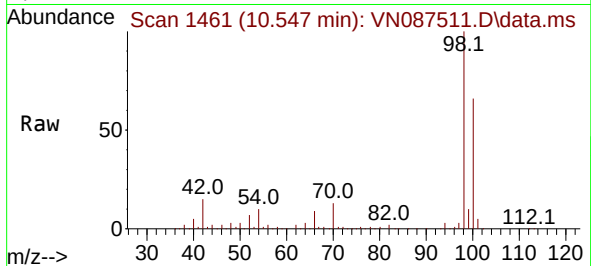




#50
Toluene-d8
Concen: 52.606 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. -0.000 min
Lab File: VN087511.D
Acq: 12 Aug 2025 14:02

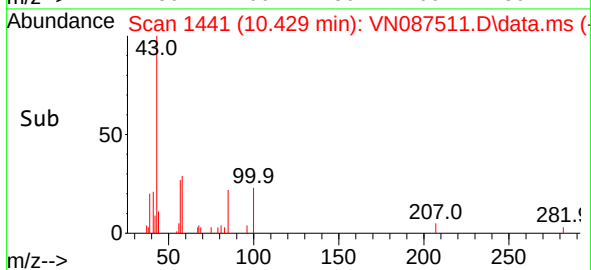
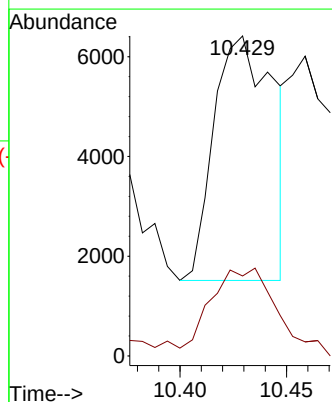
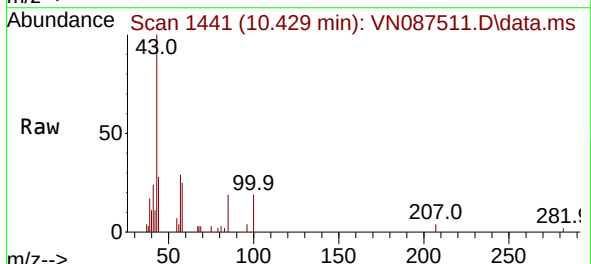
Instrument :
MSVOA_N
ClientSampleId :
TP-9

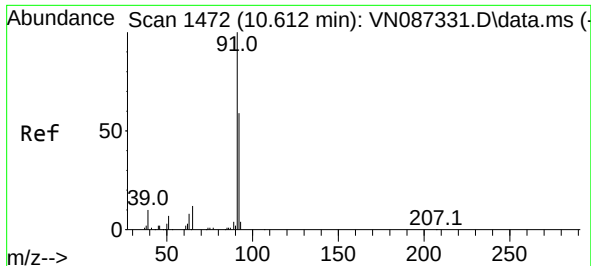
Tgt Ion: 98 Resp: 718328
Ion Ratio Lower Upper
98 100
100 64.4 52.1 78.1



#51
4-Methyl-2-Pentanone
Concen: 1.336 ug/l
RT: 10.429 min Scan# 1441
Delta R.T. 0.000 min
Lab File: VN087511.D
Acq: 12 Aug 2025 14:02

Tgt Ion: 43 Resp: 9581
Ion Ratio Lower Upper
43 100
58 39.7 30.8 46.2

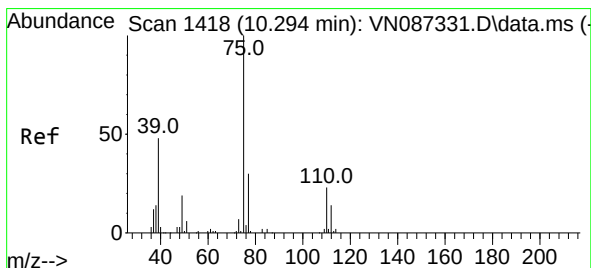
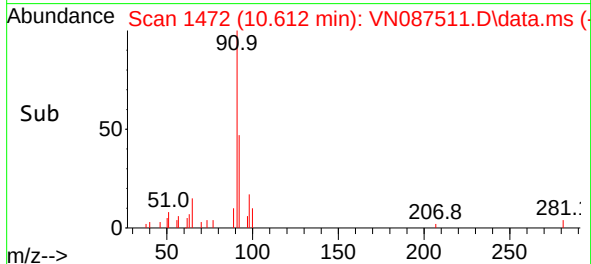
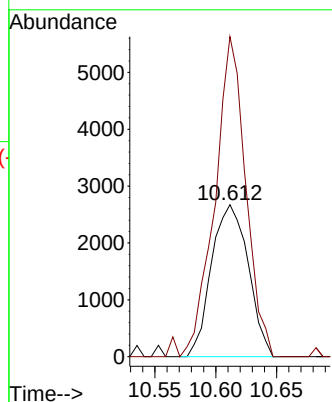
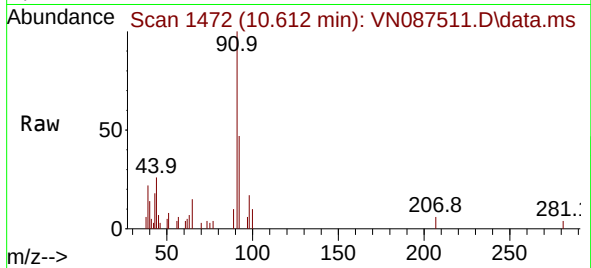




#52
Toluene
Concen: 0.565 ug/l
RT: 10.612 min Scan# 1472
Delta R.T. -0.000 min
Lab File: VN087511.D
Acq: 12 Aug 2025 14:02

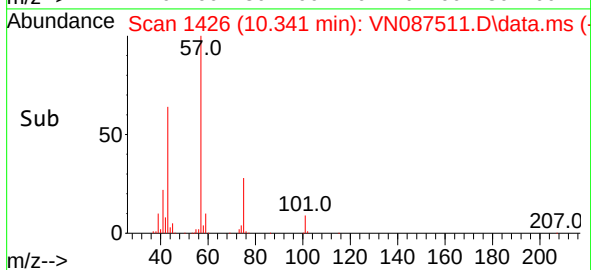
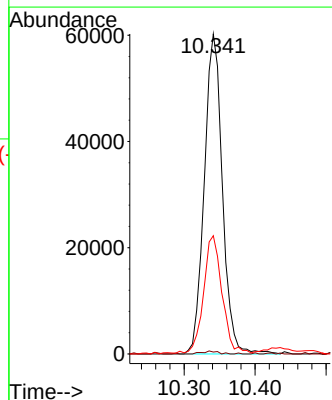
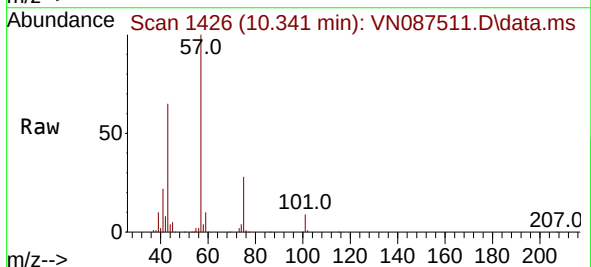
Instrument :
MSVOA_N
ClientSampleId :
TP-9

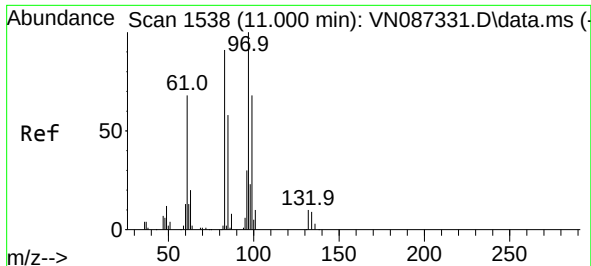
Tgt Ion: 92 Resp: 5615
Ion Ratio Lower Upper
92 100
91 177.1 135.1 202.7



#54
cis-1,3-Dichloropropene
Concen: 16.337 ug/l
RT: 10.341 min Scan# 1426
Delta R.T. 0.047 min
Lab File: VN087511.D
Acq: 12 Aug 2025 14:02

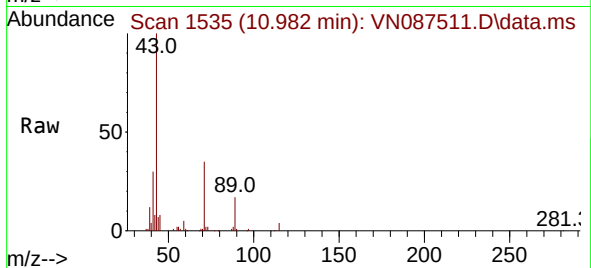
Tgt Ion: 75 Resp: 106973
Ion Ratio Lower Upper
75 100
77 0.6 24.2 36.2#
39 36.1 38.4 57.6#



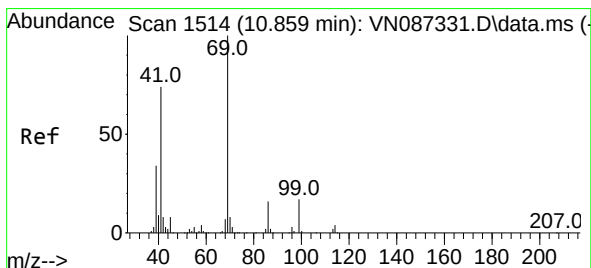
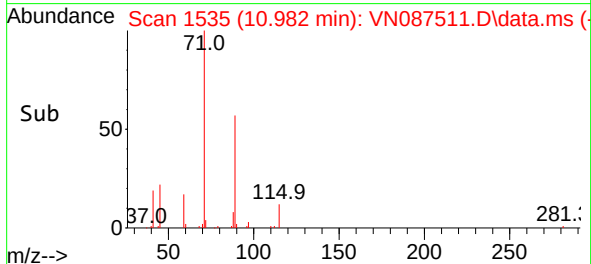
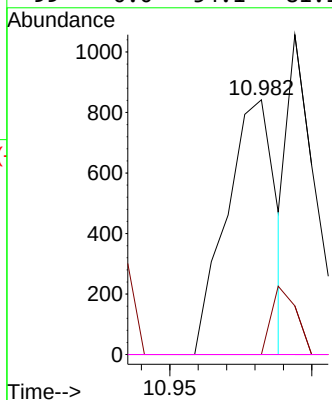


#55
1,1,2-Trichloroethane
Concen: 0.252 ug/l
RT: 10.982 min Scan# 11
Delta R.T. -0.018 min
Lab File: VN087511.D
Acq: 12 Aug 2025 14:02

Instrument :
MSVOA_N
ClientSampleId :
TP-9

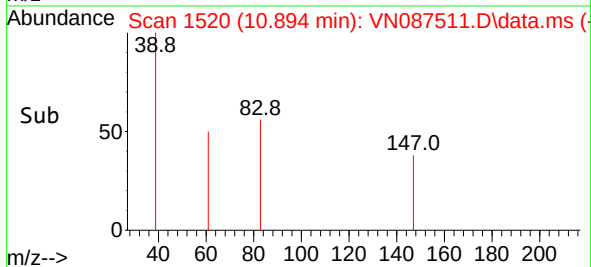
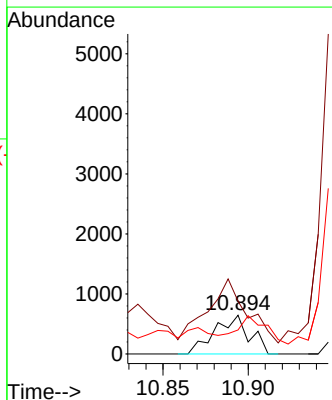
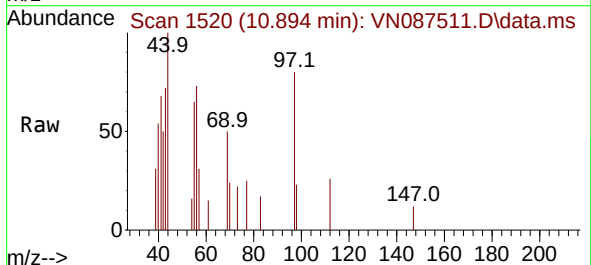


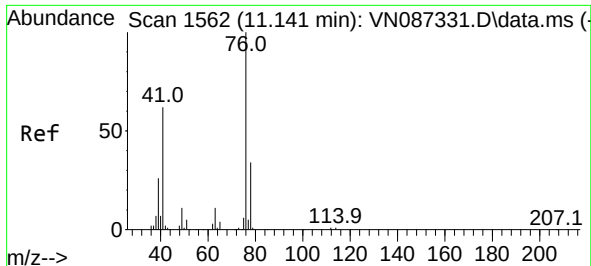
Tgt Ion:	97	Resp:	1014
Ion	Ratio	Lower	Upper
97	100		
83	0.0	72.6	109.0#
85	0.0	46.7	70.1#
99	0.0	54.1	81.1#



#56
Ethyl methacrylate
Concen: 0.772 ug/l
RT: 10.894 min Scan# 1520
Delta R.T. 0.035 min
Lab File: VN087511.D
Acq: 12 Aug 2025 14:02

Tgt Ion:	69	Resp:	909
Ion	Ratio	Lower	Upper
69	100		
41	0.0	55.1	82.7#
39	0.0	27.9	41.9#





#57

1,3-Dichloropropane

Concen: 0.833 ug/l

RT: 11.182 min Scan# 1569

Delta R.T. 0.041 min

Lab File: VN087511.D

Acq: 12 Aug 2025 14:02

Instrument :

MSVOA_N

ClientSampleId :

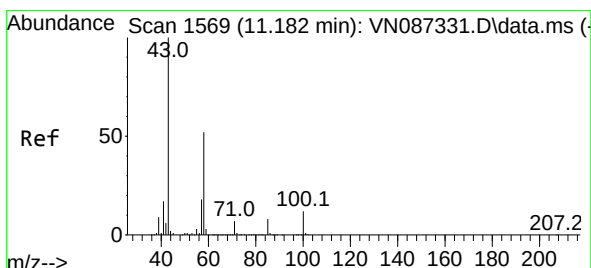
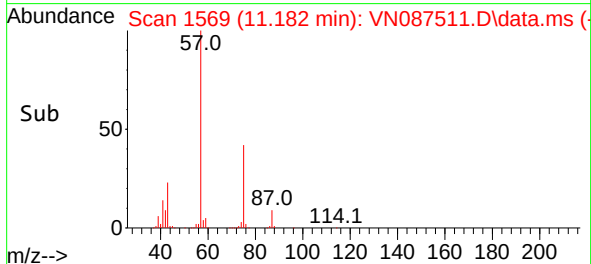
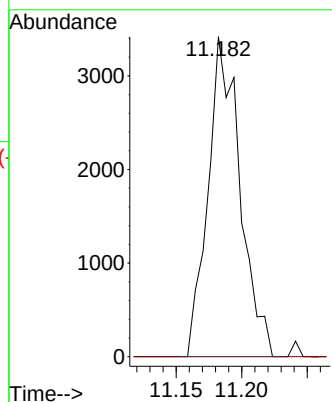
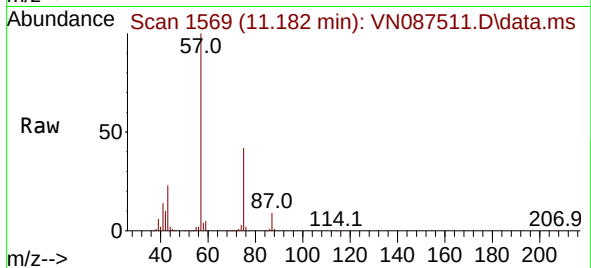
TP-9

Tgt Ion: 76 Resp: 5796

Ion Ratio Lower Upper

76 100

78 0.0 26.0 39.0#



#59

2-Hexanone

Concen: 24.932 ug/l

RT: 11.188 min Scan# 1570

Delta R.T. 0.006 min

Lab File: VN087511.D

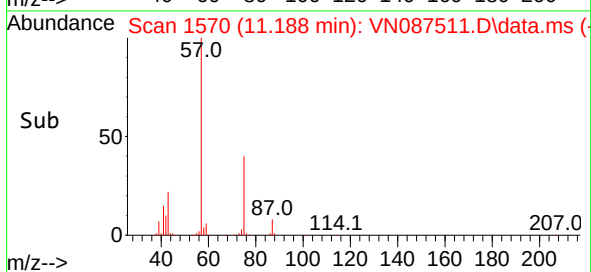
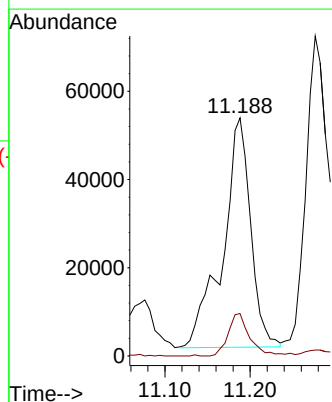
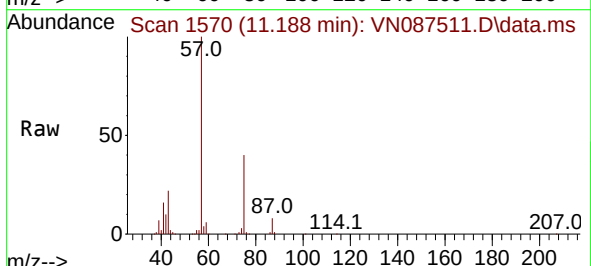
Acq: 12 Aug 2025 14:02

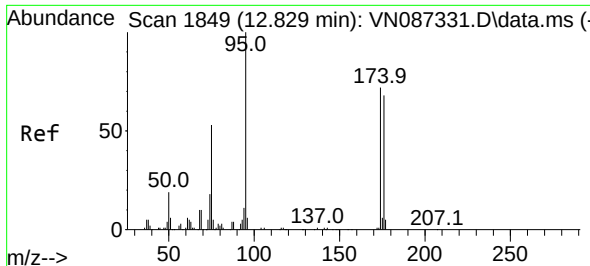
Tgt Ion: 43 Resp: 118623

Ion Ratio Lower Upper

43 100

58 14.3 26.7 80.0#

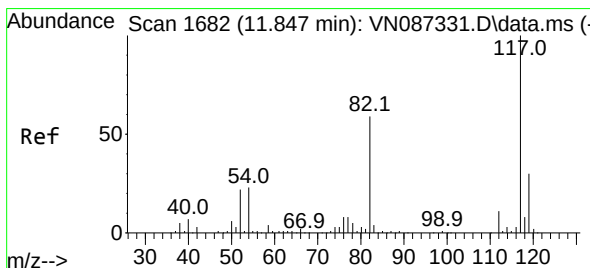
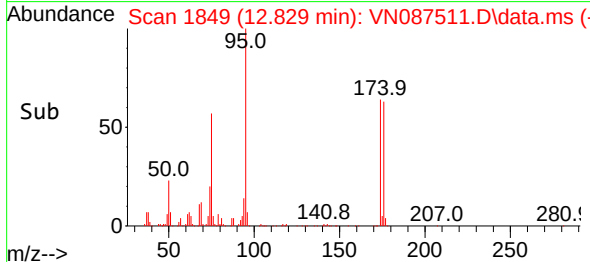
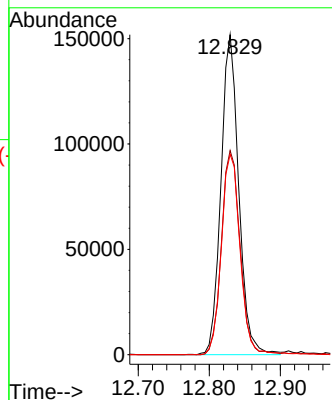
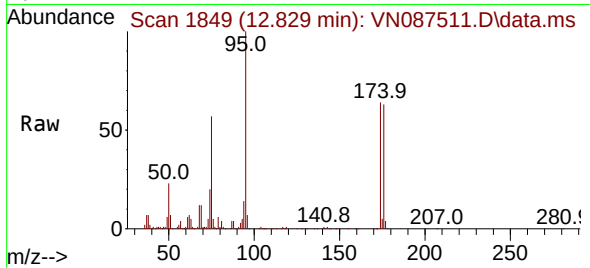




#62
4-Bromofluorobenzene
Concen: 52.225 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.000 min
Lab File: VN087511.D
Acq: 12 Aug 2025 14:02

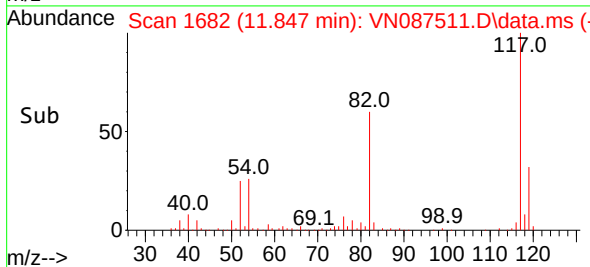
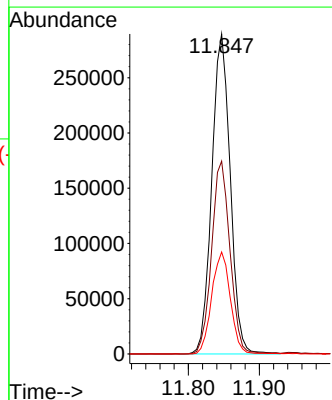
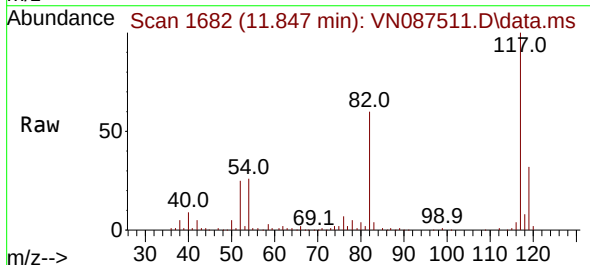
Instrument :
MSVOA_N
ClientSampleId :
TP-9

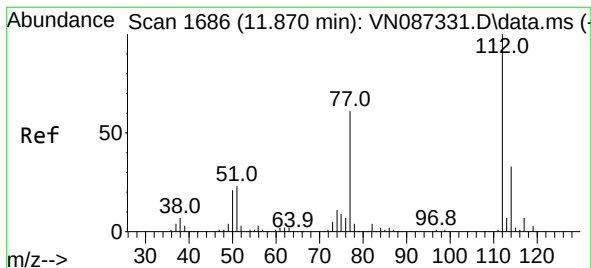
Tgt Ion: 95 Resp: 263463
Ion Ratio Lower Upper
95 100
174 66.9 0.0 149.4
176 65.9 0.0 141.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.847 min Scan# 1682
Delta R.T. -0.000 min
Lab File: VN087511.D
Acq: 12 Aug 2025 14:02

Tgt Ion: 117 Resp: 520984
Ion Ratio Lower Upper
117 100
82 60.2 47.4 71.2
119 31.8 23.8 35.8

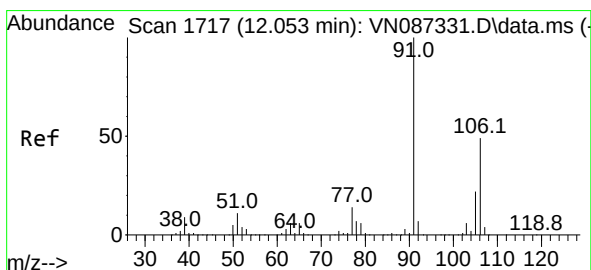
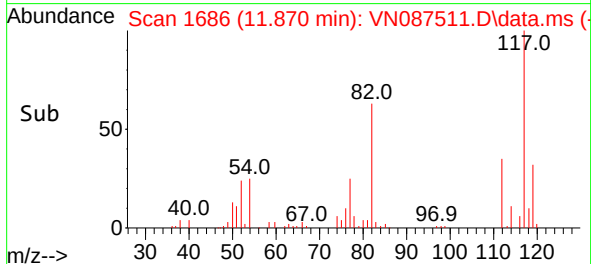
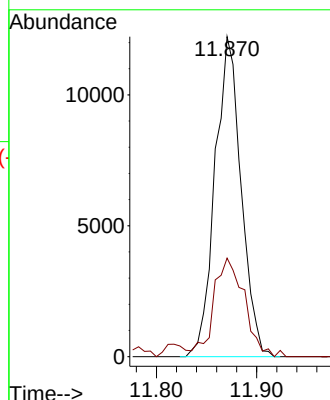
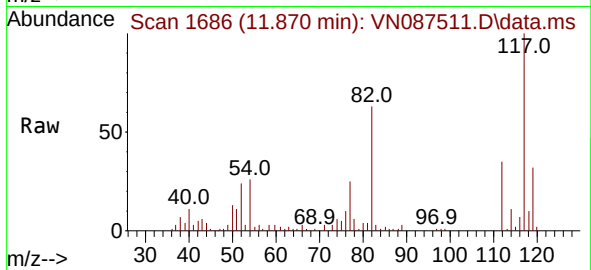




#65
Chlorobenzene
Concen: 1.887 ug/l
RT: 11.870 min Scan# 1686
Delta R.T. 0.000 min
Lab File: VN087511.D
Acq: 12 Aug 2025 14:02

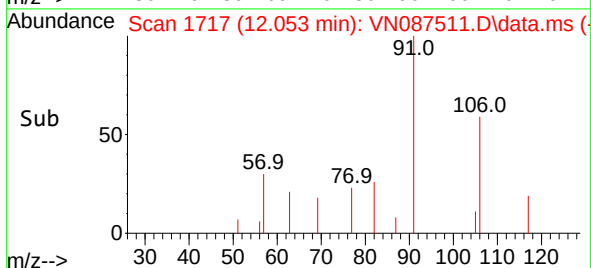
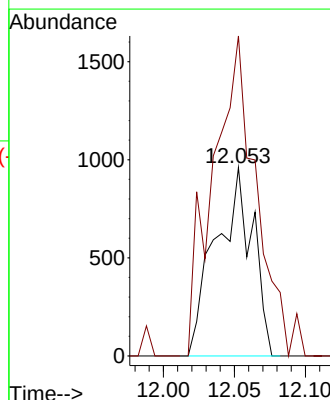
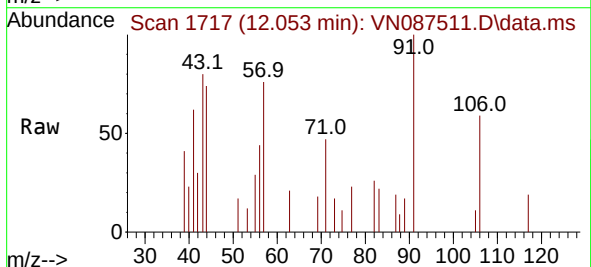
Instrument :
MSVOA_N
ClientSampleId :
TP-9

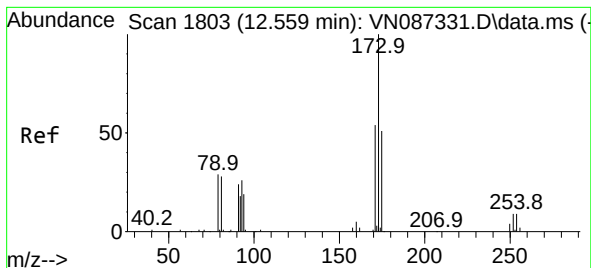
Tgt Ion:112 Resp: 22073
Ion Ratio Lower Upper
112 100
114 28.8 26.5 39.7



#68
m/p-Xylenes
Concen: 0.241 ug/l
RT: 12.053 min Scan# 1717
Delta R.T. 0.000 min
Lab File: VN087511.D
Acq: 12 Aug 2025 14:02

Tgt Ion:106 Resp: 1738
Ion Ratio Lower Upper
106 100
91 199.8 162.0 243.0





#71

Bromoform

Concen: 0.238 ug/l

RT: 12.823 min Scan# 11

Delta R.T. 0.265 min

Lab File: VN087511.D

Acq: 12 Aug 2025 14:02

Instrument :

MSVOA_N

ClientSampleId :

TP-9

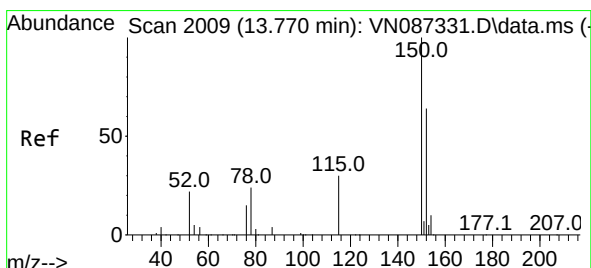
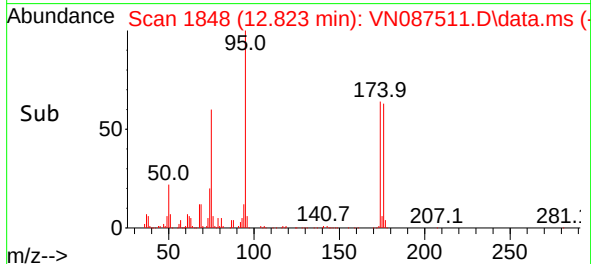
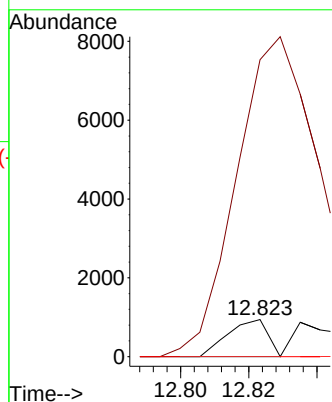
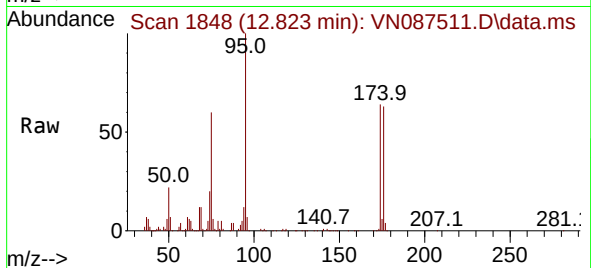
Tgt Ion:173 Resp: 766

Ion Ratio Lower Upper

173 100

175 1411.4 24.1 72.3#

254 0.0 0.0 0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.770 min Scan# 2009

Delta R.T. 0.000 min

Lab File: VN087511.D

Acq: 12 Aug 2025 14:02

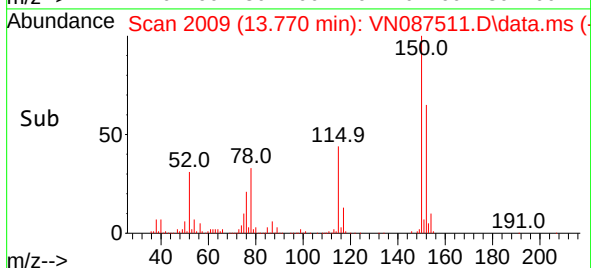
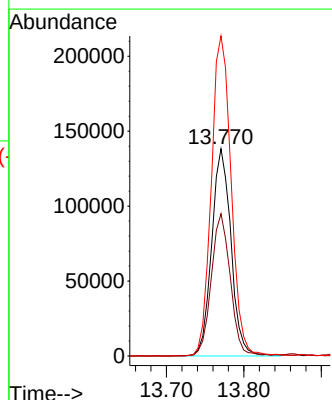
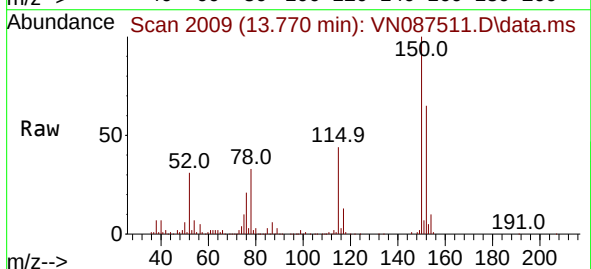
Tgt Ion:152 Resp: 239503

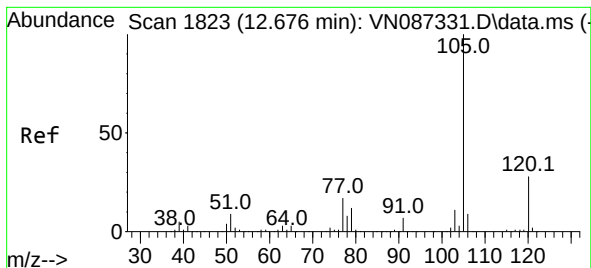
Ion Ratio Lower Upper

152 100

115 67.8 31.1 93.5

150 158.9 0.0 349.0





#73

Isopropylbenzene

Concen: 6.531 ug/l

RT: 12.676 min Scan# 1849

Delta R.T. 0.000 min

Lab File: VN087511.D

Acq: 12 Aug 2025 14:02

Instrument :

MSVOA_N

ClientSampleId :

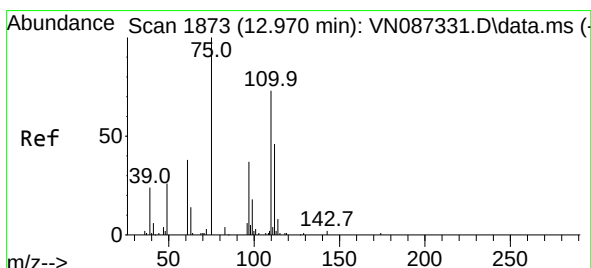
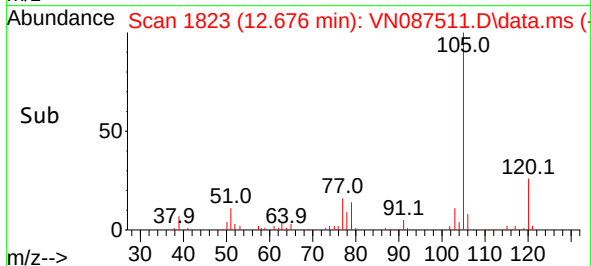
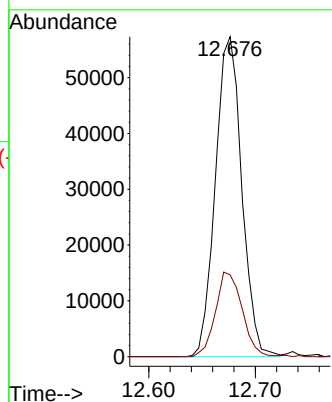
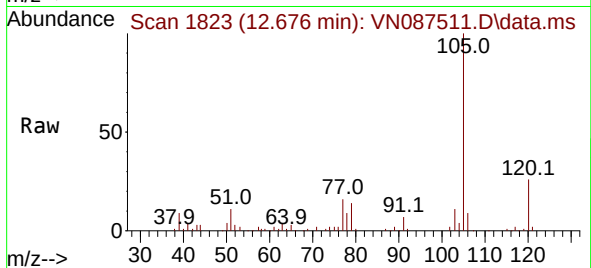
TP-9

Tgt Ion:105 Resp: 98443

Ion Ratio Lower Upper

105 100

120 26.9 13.4 40.1



#76

1,2,3-Trichloropropane

Concen: 29.343 ug/l

RT: 12.829 min Scan# 1849

Delta R.T. -0.141 min

Lab File: VN087511.D

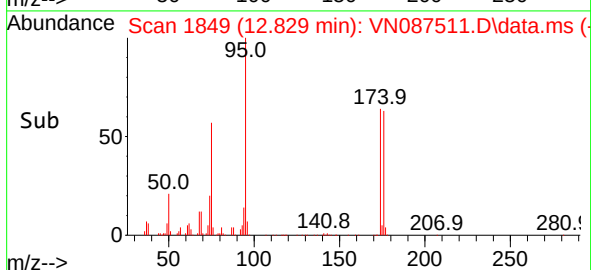
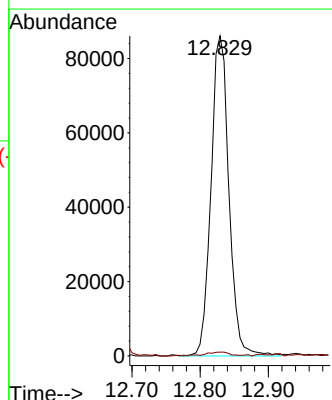
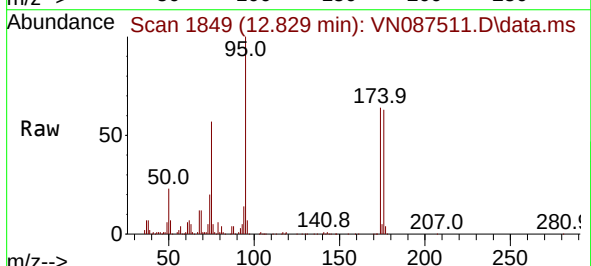
Acq: 12 Aug 2025 14:02

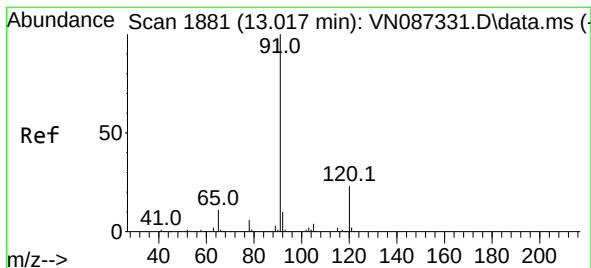
Tgt Ion: 75 Resp: 157594

Ion Ratio Lower Upper

75 100

77 1.7 94.5 283.6#





#78

n-propylbenzene

Concen: 4.422 ug/l

RT: 13.017 min Scan# 1881

Delta R.T. 0.000 min

Lab File: VN087511.D

Acq: 12 Aug 2025 14:02

Instrument :

MSVOA_N

ClientSampleId :

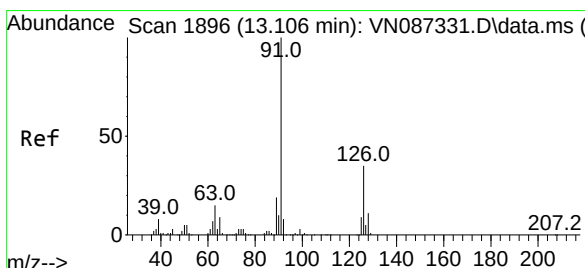
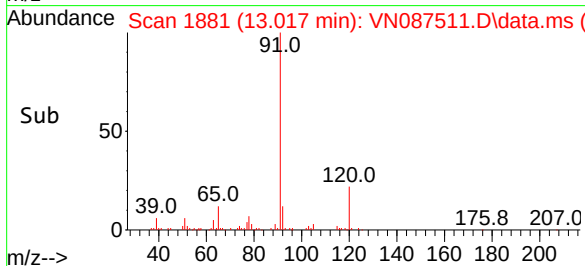
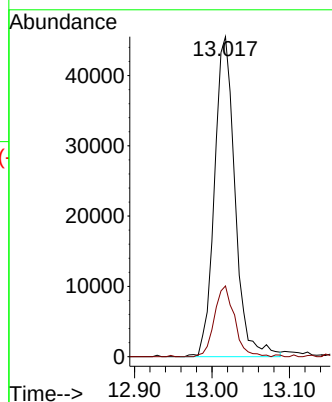
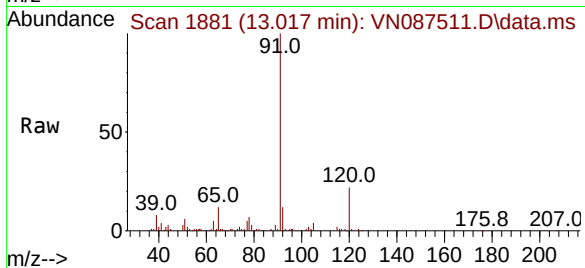
TP-9

Tgt Ion: 91 Resp: 83858

Ion Ratio Lower Upper

91 100

120 21.7 11.3 33.8



#79

2-Chlorotoluene

Concen: 7.195 ug/l

RT: 13.017 min Scan# 1881

Delta R.T. -0.088 min

Lab File: VN087511.D

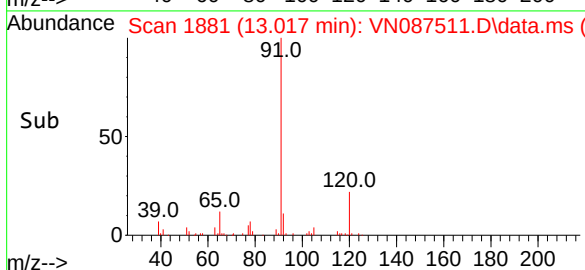
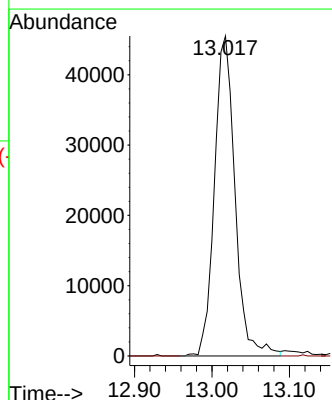
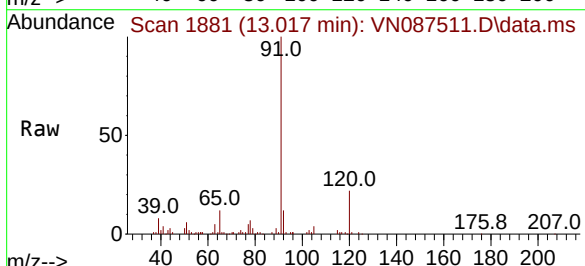
Acq: 12 Aug 2025 14:02

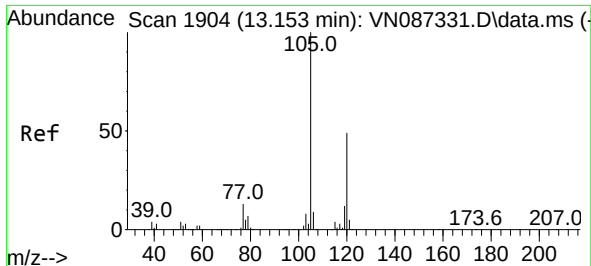
Tgt Ion: 91 Resp: 83858

Ion Ratio Lower Upper

91 100

126 0.0 16.9 50.6#

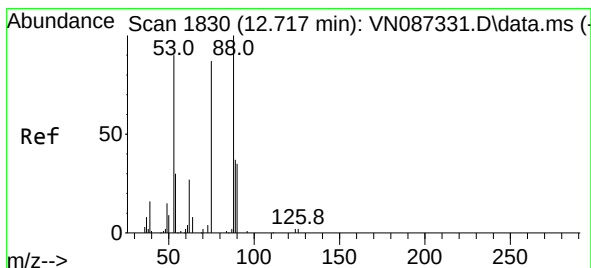
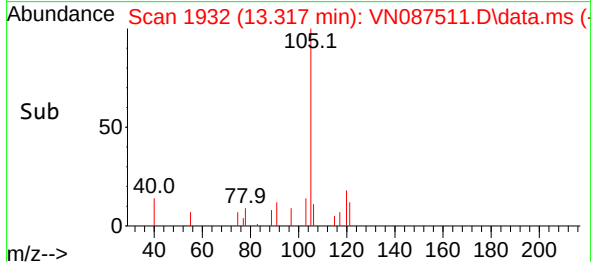
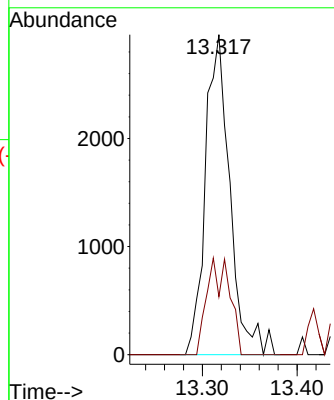
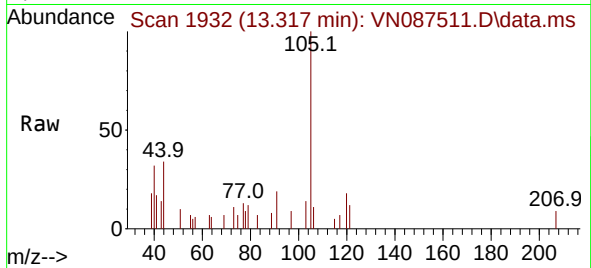




#80
1,3,5-Trimethylbenzene
Concen: 0.414 ug/l
RT: 13.317 min Scan# 1904
Delta R.T. 0.165 min
Lab File: VN087511.D
Acq: 12 Aug 2025 14:02

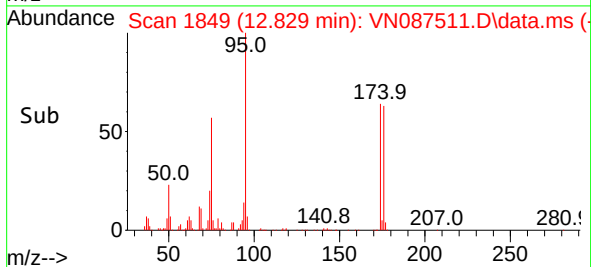
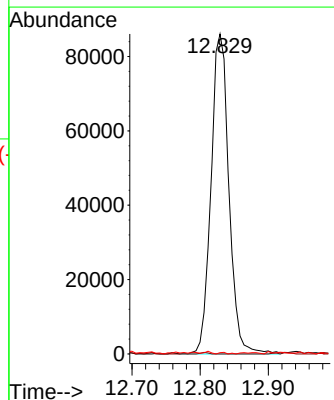
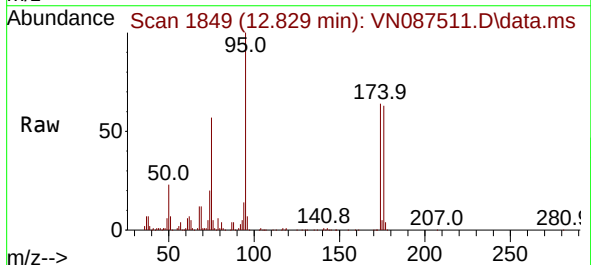
Instrument :
MSVOA_N
ClientSampleId :
TP-9

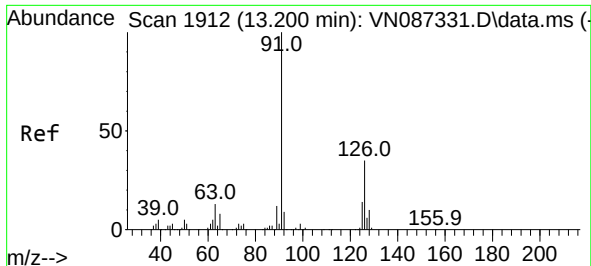
Tgt Ion:105 Resp: 5322
Ion Ratio Lower Upper
105 100
120 27.8 24.3 72.8



#81
trans-1,4-Dichloro-2-butene
Concen: 80.289 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.112 min
Lab File: VN087511.D
Acq: 12 Aug 2025 14:02

Tgt Ion: 75 Resp: 157594
Ion Ratio Lower Upper
75 100
53 0.0 83.5 125.3#
89 0.2 38.4 57.6#

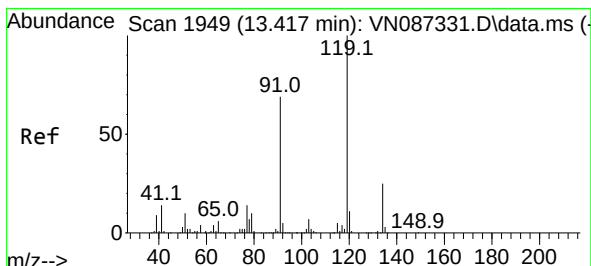
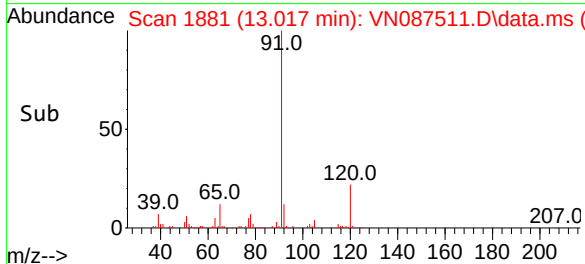
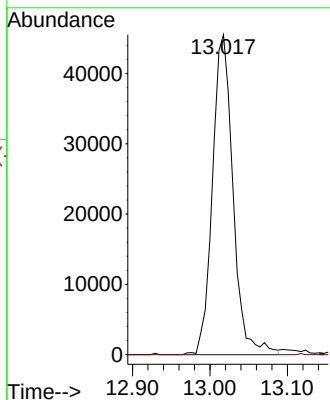
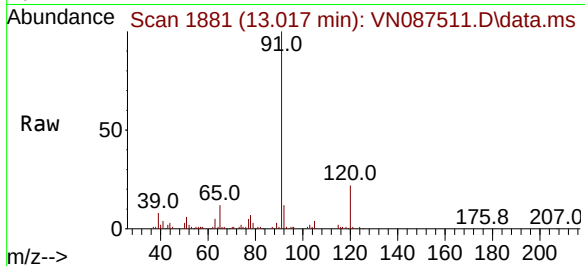




#82
4-Chlorotoluene
Concen: 6.910 ug/l
RT: 13.017 min Scan# 1881
Delta R.T. -0.182 min
Lab File: VN087511.D
Acq: 12 Aug 2025 14:02

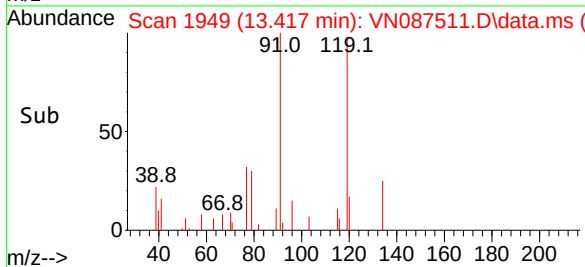
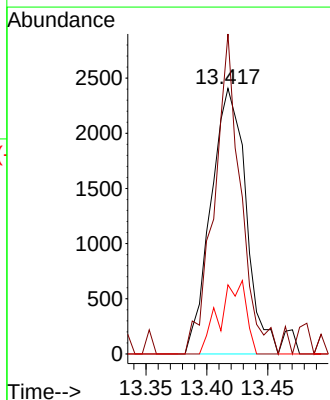
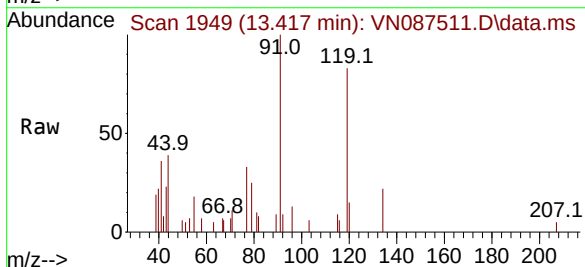
Instrument :
MSVOA_N
ClientSampleId :
TP-9

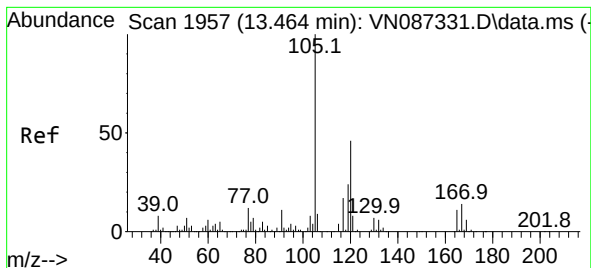
Tgt Ion: 91 Resp: 83858
Ion Ratio Lower Upper
91 100
126 0.0 16.6 49.7#



#83
tert-Butylbenzene
Concen: 0.449 ug/l
RT: 13.417 min Scan# 1949
Delta R.T. 0.000 min
Lab File: VN087511.D
Acq: 12 Aug 2025 14:02

Tgt Ion: 119 Resp: 4818
Ion Ratio Lower Upper
119 100
91 91.0 35.0 105.1
134 20.8 12.6 37.6





#84

1,2,4-Trimethylbenzene

Concen: 0.406 ug/l

RT: 13.317 min Scan# 1957

Delta R.T. -0.147 min

Lab File: VN087511.D

Acq: 12 Aug 2025 14:02

Instrument :

MSVOA_N

ClientSampleId :

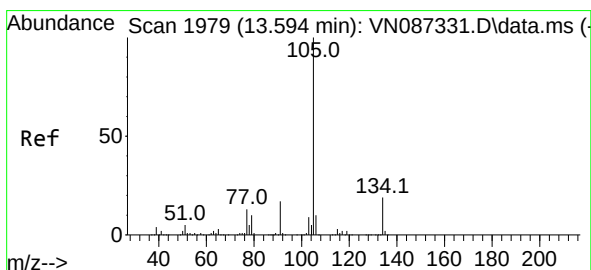
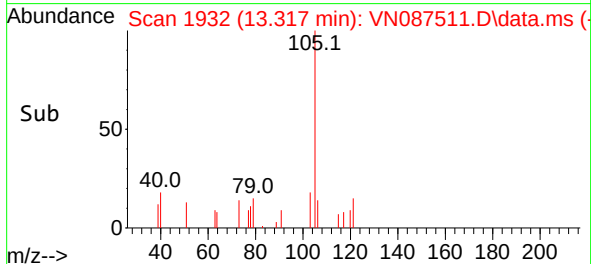
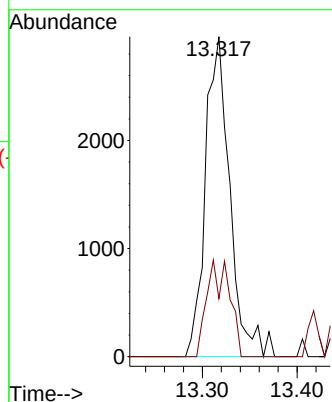
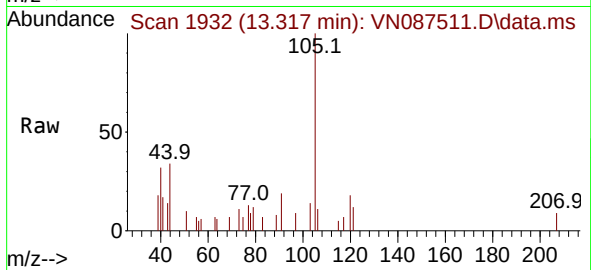
TP-9

Tgt Ion:105 Resp: 5322

Ion Ratio Lower Upper

105 100

120 27.8 22.8 68.3



#85

sec-Butylbenzene

Concen: 4.580 ug/l

RT: 13.594 min Scan# 1979

Delta R.T. 0.000 min

Lab File: VN087511.D

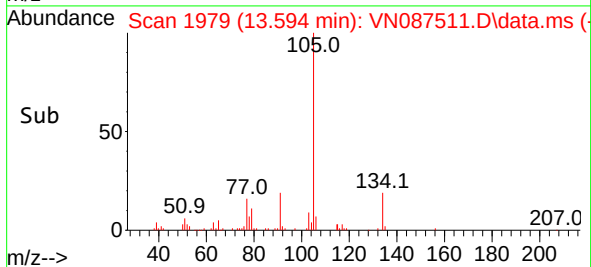
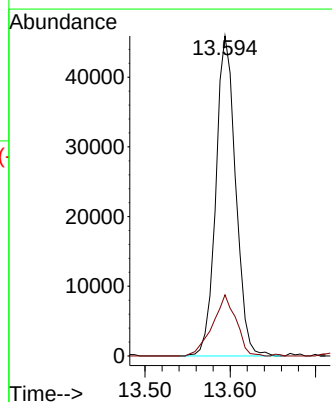
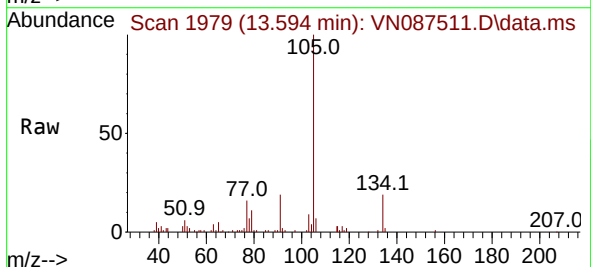
Acq: 12 Aug 2025 14:02

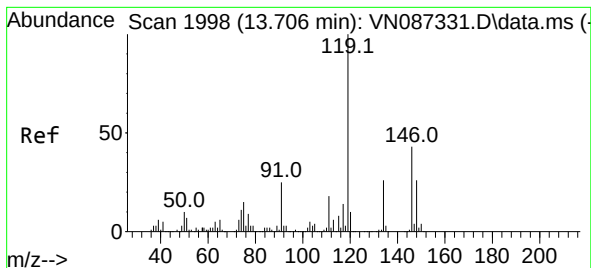
Tgt Ion:105 Resp: 74000

Ion Ratio Lower Upper

105 100

134 22.8 9.8 29.4





#86

p-Isopropyltoluene

Concen: 1.588 ug/l

RT: 13.864 min Scan# 2012

Delta R.T. 0.159 min

Lab File: VN087511.D

Acq: 12 Aug 2025 14:02

Instrument :

MSVOA_N

ClientSampleId :

TP-9

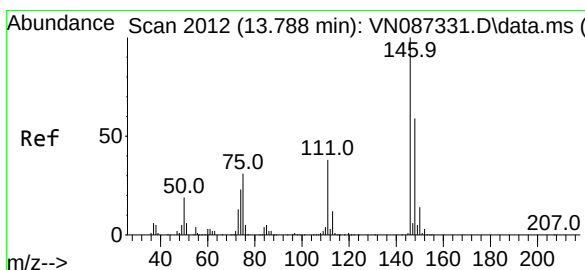
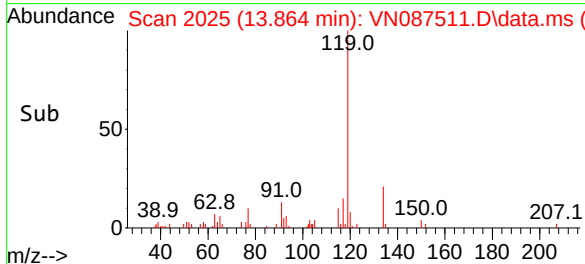
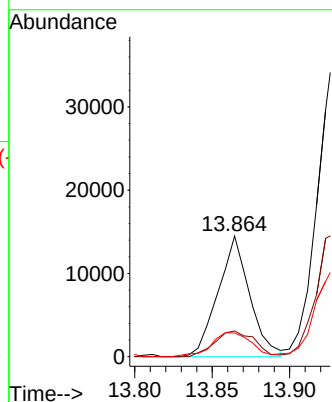
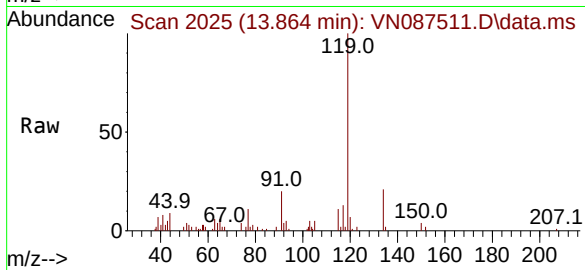
Tgt Ion:119 Resp: 20566

Ion Ratio Lower Upper

119 100

134 27.0 13.5 40.5

91 24.9 12.2 36.6



#88

1,4-Dichlorobenzene

Concen: 0.956 ug/l

RT: 13.788 min Scan# 2012

Delta R.T. 0.000 min

Lab File: VN087511.D

Acq: 12 Aug 2025 14:02

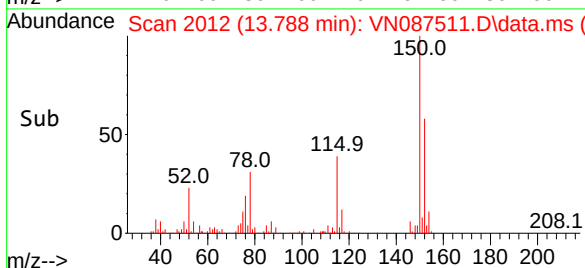
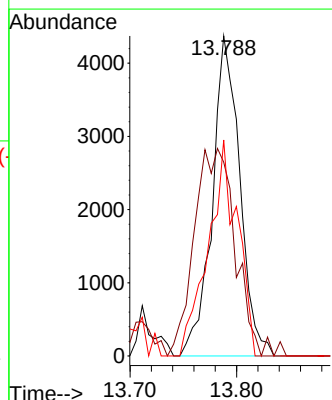
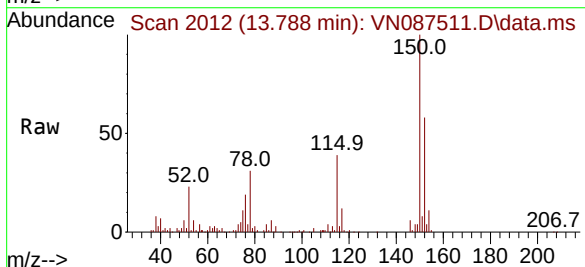
Tgt Ion:146 Resp: 7836

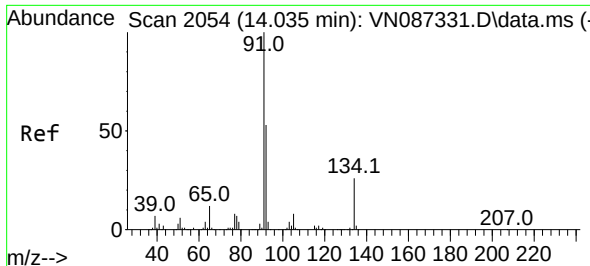
Ion Ratio Lower Upper

146 100

111 95.5 19.6 58.7#

148 71.8 31.4 94.0

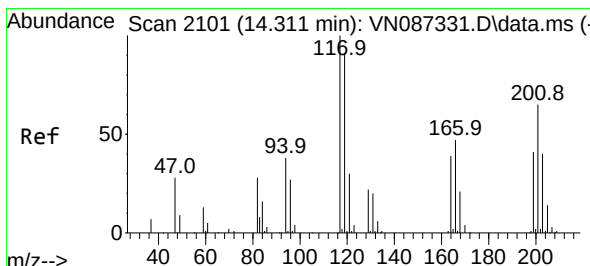
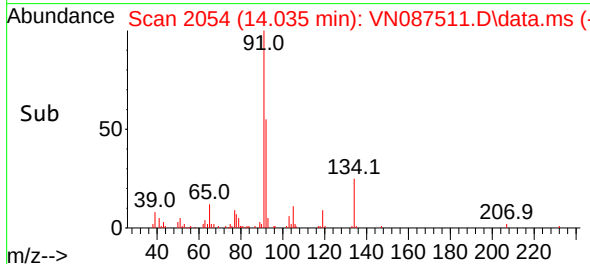
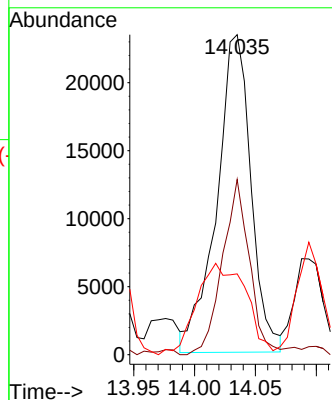
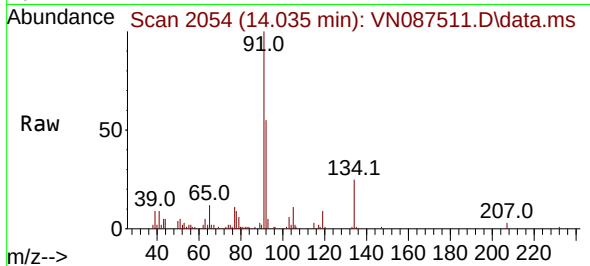




#89
n-Butylbenzene
Concen: 3.701 ug/l
RT: 14.035 min Scan# 2054
Delta R.T. 0.000 min
Lab File: VN087511.D
Acq: 12 Aug 2025 14:02

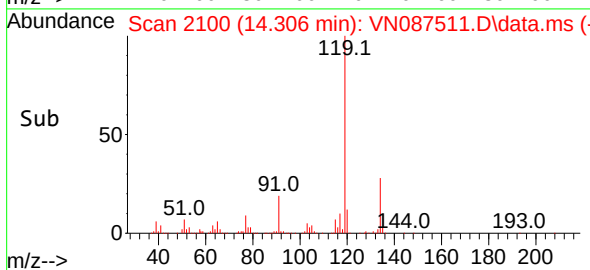
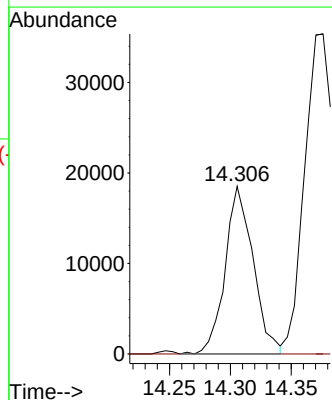
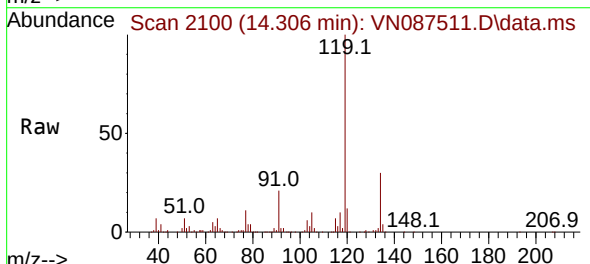
Instrument :
MSVOA_N
ClientSampleId :
TP-9

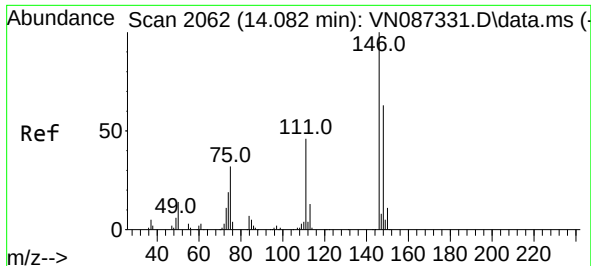
Tgt Ion: 91 Resp: 45758
Ion Ratio Lower Upper
91 100
92 43.9 26.2 78.6
134 41.2 12.4 37.2#



#90
Hexachloroethane
Concen: 10.826 ug/l
RT: 14.306 min Scan# 2100
Delta R.T. -0.006 min
Lab File: VN087511.D
Acq: 12 Aug 2025 14:02

Tgt Ion: 117 Resp: 29702
Ion Ratio Lower Upper
117 100
201 0.0 32.8 98.4#





#91

1,2-Dichlorobenzene

Concen: 0.294 ug/l

RT: 14.094 min Scan# 2064

Delta R.T. 0.012 min

Lab File: VN087511.D

Acq: 12 Aug 2025 14:02

Instrument :

MSVOA_N

ClientSampleId :

TP-9

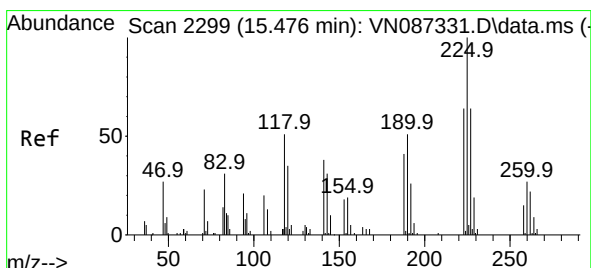
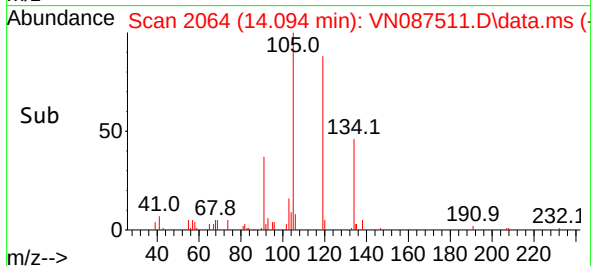
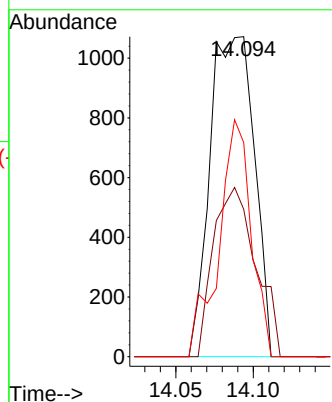
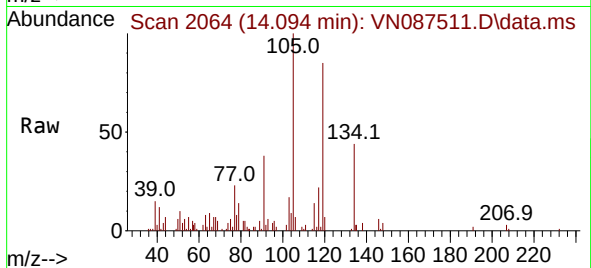
Tgt Ion:146 Resp: 2135

Ion Ratio Lower Upper

146 100

111 50.7 22.0 66.0

148 54.0 32.7 98.1



#94

Hexachlorobutadiene

Concen: 0.275 ug/l

RT: 15.470 min Scan# 2298

Delta R.T. -0.006 min

Lab File: VN087511.D

Acq: 12 Aug 2025 14:02

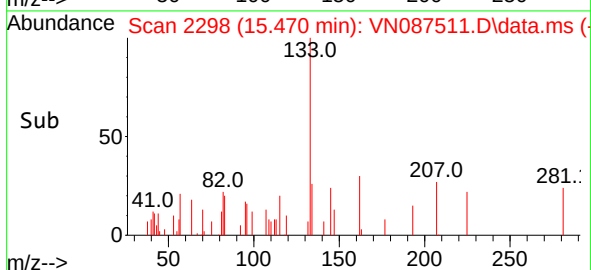
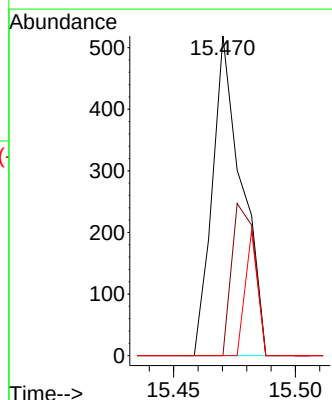
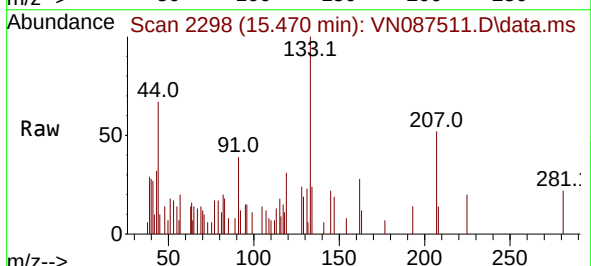
Tgt Ion:225 Resp: 436

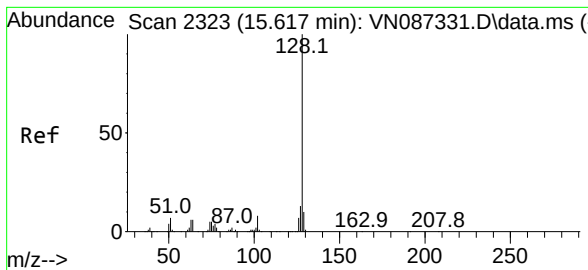
Ion Ratio Lower Upper

225 100

223 37.2 32.1 96.3

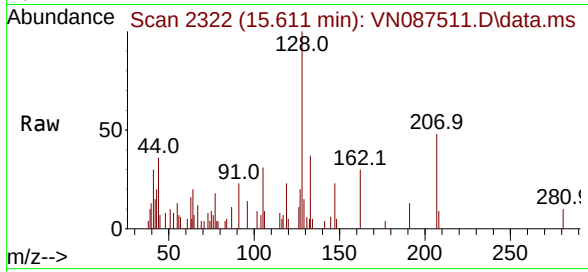
227 16.5 31.3 93.9#





#95
Naphthalene
Concen: 0.444 ug/l
RT: 15.611 min Scan# 21
Delta R.T. -0.006 min
Lab File: VN087511.D
Acq: 12 Aug 2025 14:02

Instrument :
MSVOA_N
ClientSampleId :
TP-9



Tgt Ion:128 Resp: 6721
Ion Ratio Lower Upper
128 100
127 16.6 10.5 15.7#
129 0.0 8.4 12.6#

