

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081525\
 Data File : VN087583.D
 Acq On : 15 Aug 2025 15:40
 Operator : JC\MD
 Sample : Q2864-03
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Aug 18 05:45:22 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)

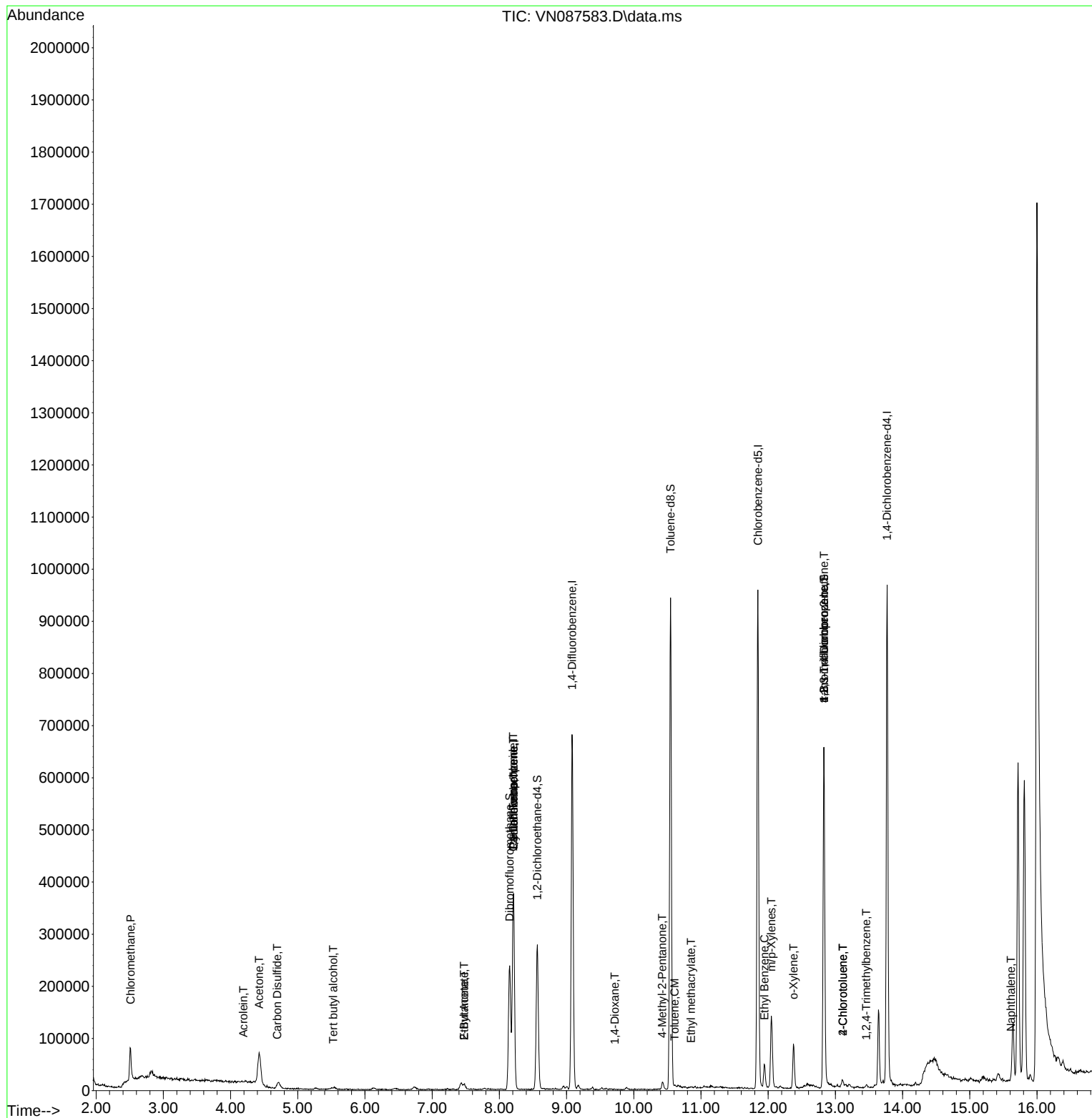
Internal Standards						
1) Pentafluorobenzene	8.212	168	251774	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	555327	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.847	117	503335	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	241136	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.565	65	233138	54.573	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 109.140%	
35) Dibromofluoromethane	8.153	113	168368	43.953	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 87.900%	
50) Toluene-d8	10.547	98	622791	45.578	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 91.160%	
62) 4-Bromofluorobenzene	12.829	95	229931	45.546	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 91.100%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.512	50	3970	1.181	ug/l	88
11) Tert butyl alcohol	5.530	59	3047	3.756	ug/l #	83
13) Acrolein	4.189	56	475	0.730	ug/l #	72
16) Acetone	4.424	43	115765	57.794	ug/l	98
17) Carbon Disulfide	4.695	76	17111	2.008	ug/l	98
20) Methylene Chloride	5.242	84	1785	Below Cal	#	28
25) 2-Butanone	7.477	43	15452	4.993	ug/l #	81
31) Cyclohexane	8.212	56	8768	1.669	ug/l #	46
36) 1,1-Dichloropropene	8.206	75	25329	5.005	ug/l #	50
37) Ethyl Acetate	7.477	43	15452	2.114	ug/l #	70
38) Carbon Tetrachloride	8.206	117	30726	5.511	ug/l #	14
49) 1,4-Dioxane	9.718	88	82	1.048	ug/l #	11
51) 4-Methyl-2-Pentanone	10.424	43	13035	1.816	ug/l	88
52) Toluene	10.606	92	2537	0.255	ug/l	95
56) Ethyl methacrylate	10.853	69	359	0.689	ug/l #	60
67) Ethyl Benzene	11.947	91	33655	1.809	ug/l	97
68) m/p-Xylenes	12.047	106	41902	6.015	ug/l	90
69) o-Xylene	12.376	106	24100	3.622	ug/l	97
76) 1,2,3-Trichloropropane	12.829	75	134602	24.893	ug/l #	1
79) 2-Chlorotoluene	13.112	91	4671	0.398	ug/l	85
81) trans-1,4-Dichloro-2-b...	12.829	75	134602	68.111	ug/l #	8
82) 4-Chlorotoluene	13.112	91	4671	0.382	ug/l	86
84) 1,2,4-Trimethylbenzene	13.459	105	3203	0.243	ug/l	94
95) Naphthalene	15.611	128	3671	0.241	ug/l #	85

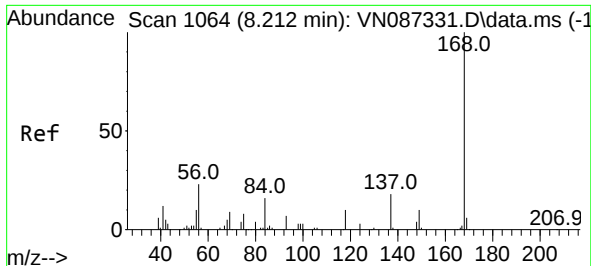
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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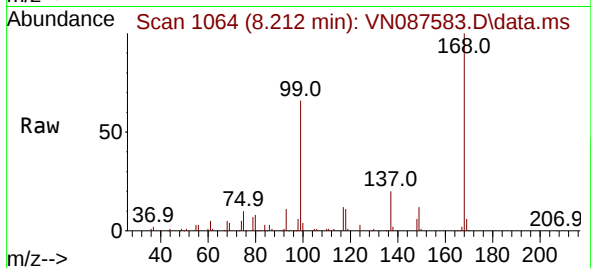
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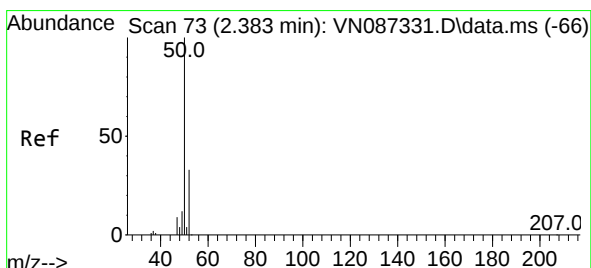
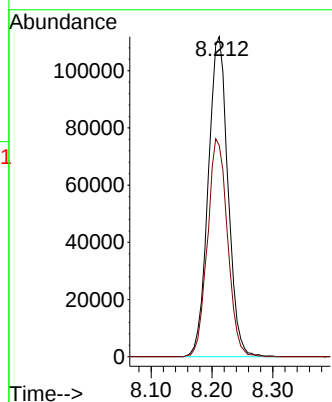
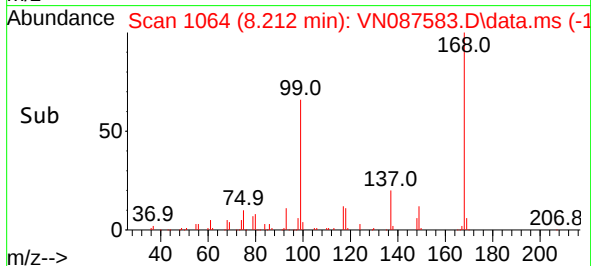


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.212 min Scan# 1064
Delta R.T. -0.000 min
Lab File: VN087583.D
Acq: 15 Aug 2025 15:40

Instrument :
MSVOA_N
ClientSampleId :

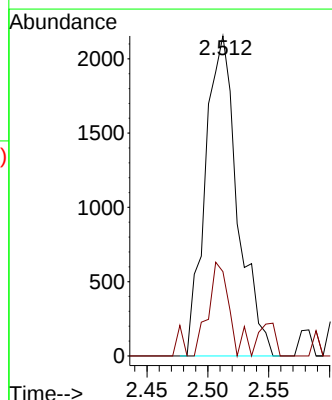
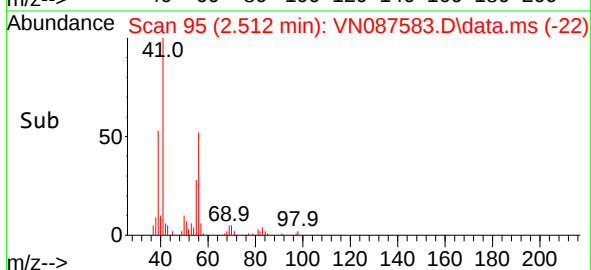
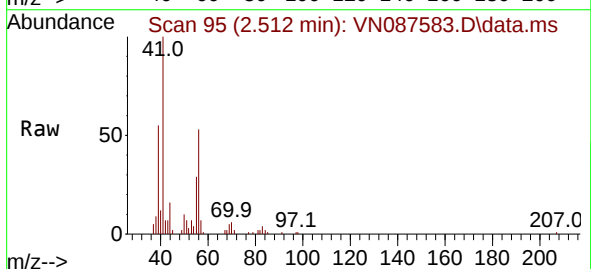


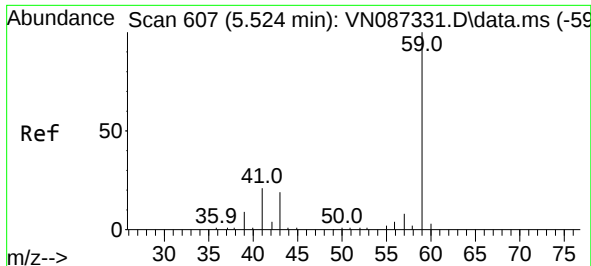
Tgt Ion:168 Resp: 251774
Ion Ratio Lower Upper
168 100
99 66.0 47.9 71.9



#3
Chloromethane
Concen: 1.181 ug/l
RT: 2.512 min Scan# 95
Delta R.T. 0.130 min
Lab File: VN087583.D
Acq: 15 Aug 2025 15:40

Tgt Ion: 50 Resp: 3970
Ion Ratio Lower Upper
50 100
52 26.3 26.3 39.5





#11

Tert butyl alcohol

Concen: 3.756 ug/l

RT: 5.530 min Scan# 607

Delta R.T. 0.006 min

Lab File: VN087583.D

Acq: 15 Aug 2025 15:40

Instrument :

MSVOA_N

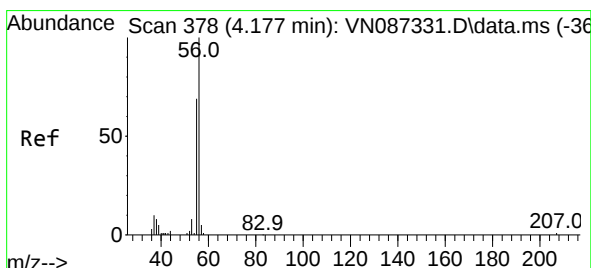
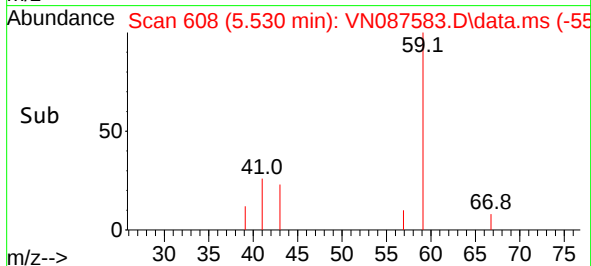
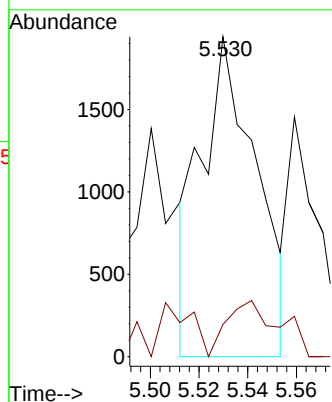
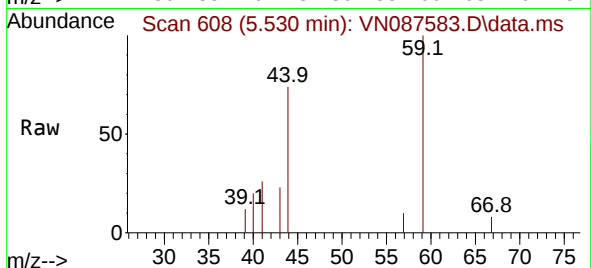
ClientSampleId :

Tgt Ion: 59 Resp: 3047

Ion Ratio Lower Upper

59 100

57 16.7 8.3 12.5#



#13

Acrolein

Concen: 0.730 ug/l

RT: 4.189 min Scan# 380

Delta R.T. 0.012 min

Lab File: VN087583.D

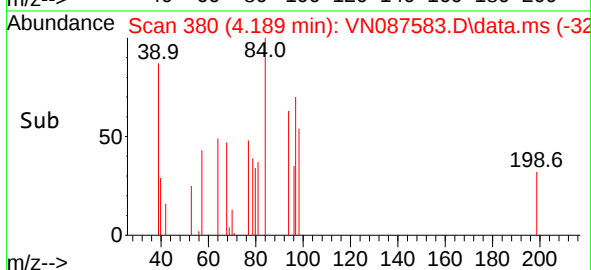
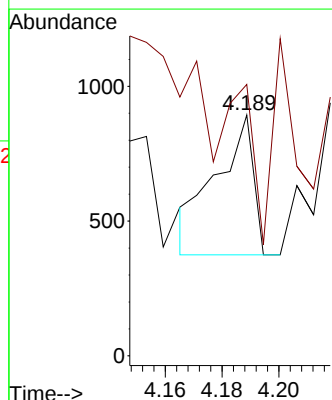
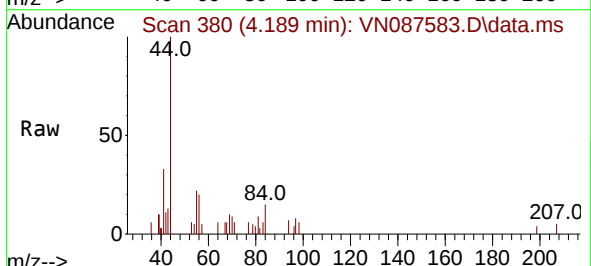
Acq: 15 Aug 2025 15:40

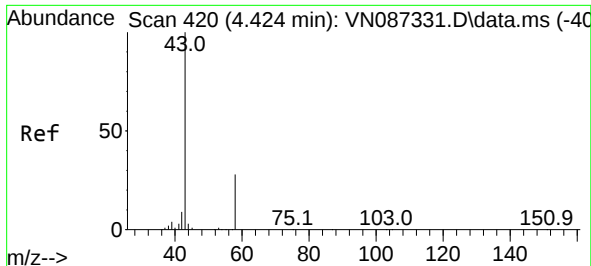
Tgt Ion: 56 Resp: 475

Ion Ratio Lower Upper

56 100

55 93.7 56.2 84.4#





#16

Acetone

Concen: 57.794 ug/l

RT: 4.424 min Scan# 41

Delta R.T. 0.000 min

Lab File: VN087583.D

Acq: 15 Aug 2025 15:40

Instrument :

MSVOA_N

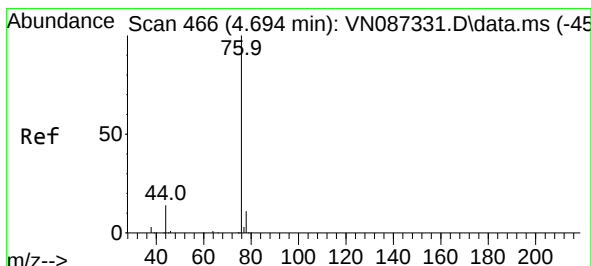
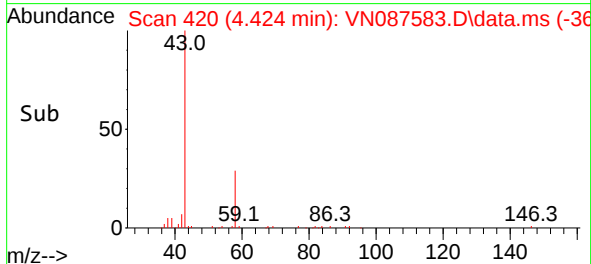
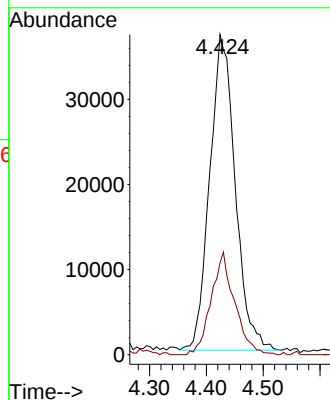
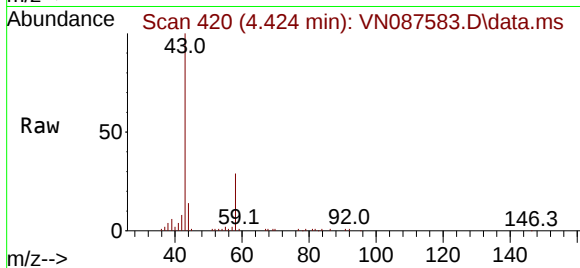
ClientSampleId :

Tgt Ion: 43 Resp: 115765

Ion Ratio Lower Upper

43 100

58 29.1 22.3 33.5



#17

Carbon Disulfide

Concen: 2.008 ug/l

RT: 4.695 min Scan# 466

Delta R.T. 0.001 min

Lab File: VN087583.D

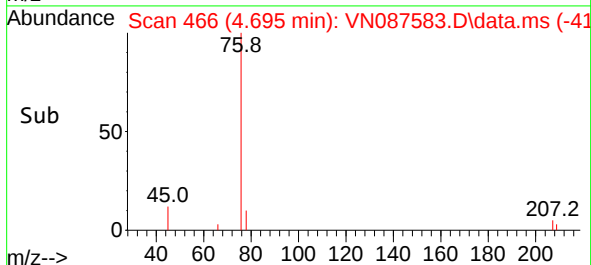
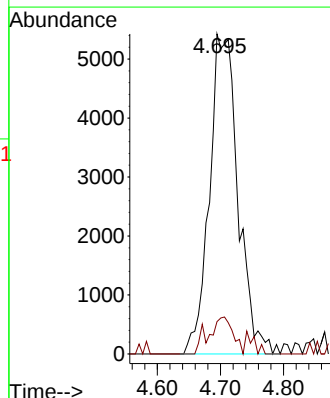
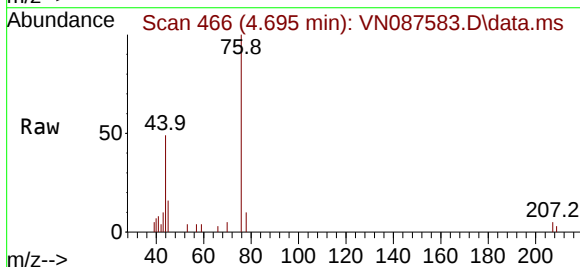
Acq: 15 Aug 2025 15:40

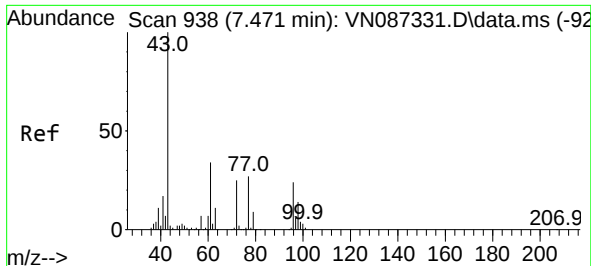
Tgt Ion: 76 Resp: 17111

Ion Ratio Lower Upper

76 100

78 10.1 8.6 13.0

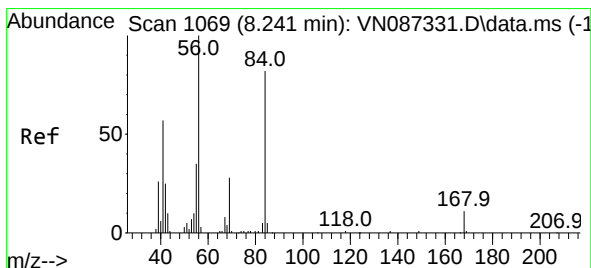
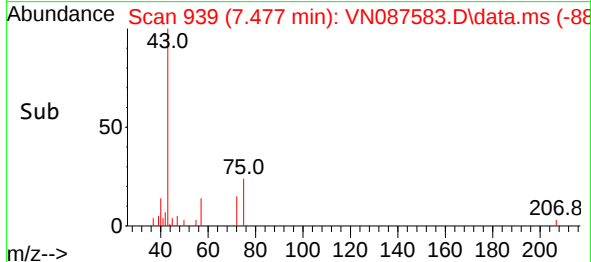
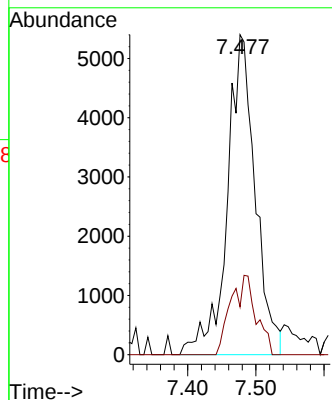
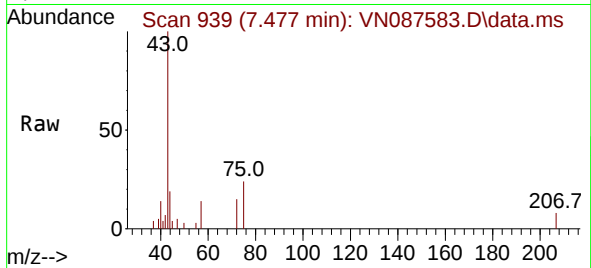




#25
2-Butanone
Concen: 4.993 ug/l
RT: 7.477 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN087583.D
Acq: 15 Aug 2025 15:40

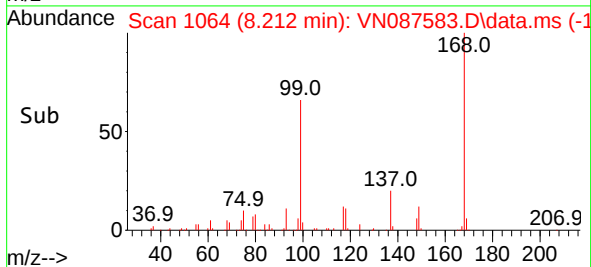
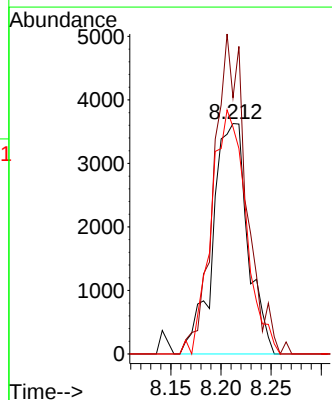
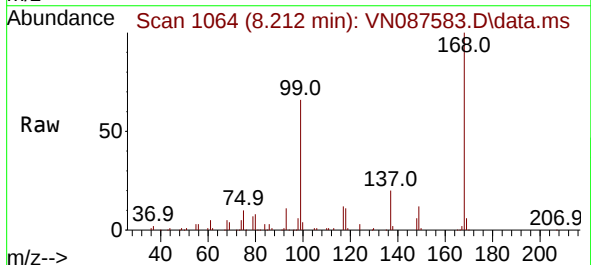
Instrument :
MSVOA_N
ClientSampleId :

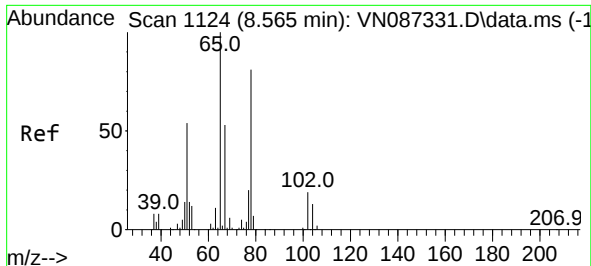
Tgt Ion: 43 Resp: 15452
Ion Ratio Lower Upper
43 100
72 15.0 19.6 29.4#



#31
Cyclohexane
Concen: 1.669 ug/l
RT: 8.212 min Scan# 1064
Delta R.T. -0.029 min
Lab File: VN087583.D
Acq: 15 Aug 2025 15:40

Tgt Ion: 56 Resp: 8768
Ion Ratio Lower Upper
56 100
69 111.2 22.7 34.1#
84 98.5 65.8 98.6





#33

1,2-Dichloroethane-d4

Concen: 54.573 ug/l

RT: 8.565 min Scan# 1124

Delta R.T. 0.000 min

Lab File: VN087583.D

Acq: 15 Aug 2025 15:40

Instrument :

MSVOA_N

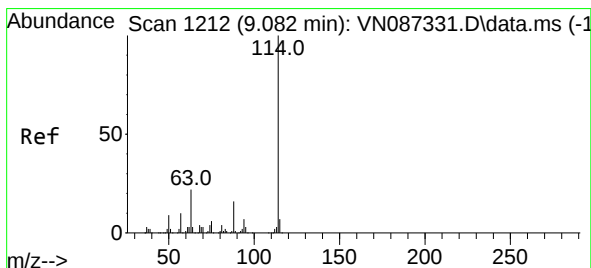
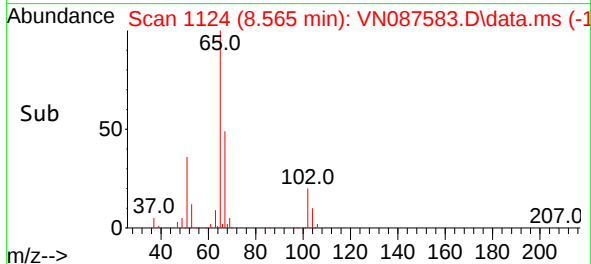
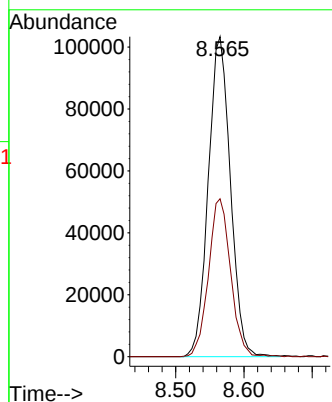
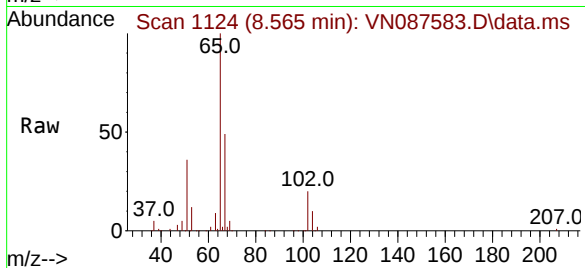
ClientSampleId :

Tgt Ion: 65 Resp: 233138

Ion Ratio Lower Upper

65 100

67 49.5 0.0 104.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.082 min Scan# 1212

Delta R.T. 0.000 min

Lab File: VN087583.D

Acq: 15 Aug 2025 15:40

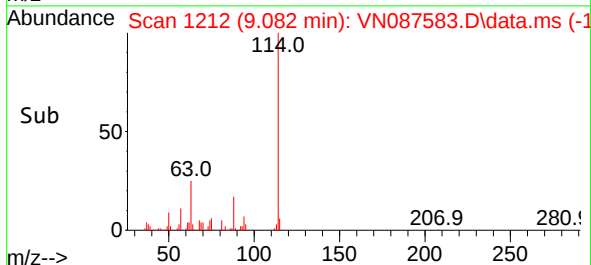
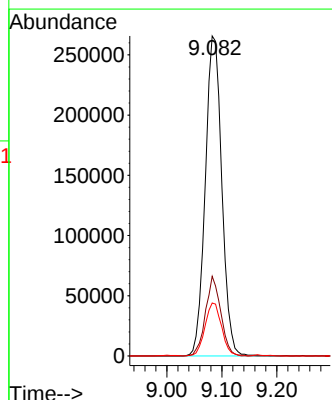
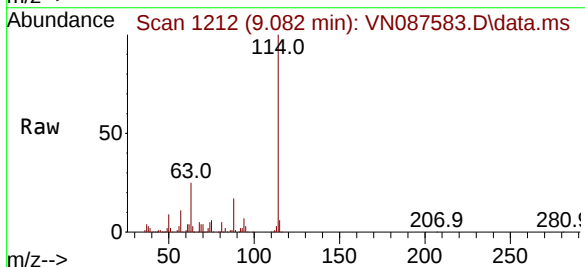
Tgt Ion: 114 Resp: 555327

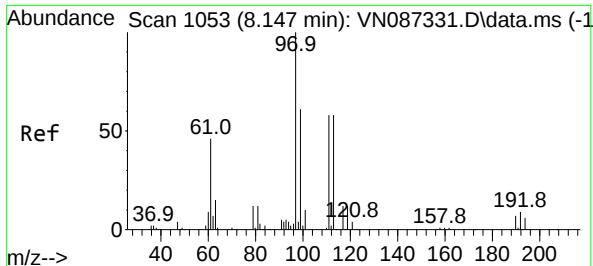
Ion Ratio Lower Upper

114 100

63 24.9 0.0 44.6

88 16.5 0.0 32.8





#35

Dibromofluoromethane

Concen: 43.953 ug/l

RT: 8.153 min Scan# 1054

Delta R.T. 0.006 min

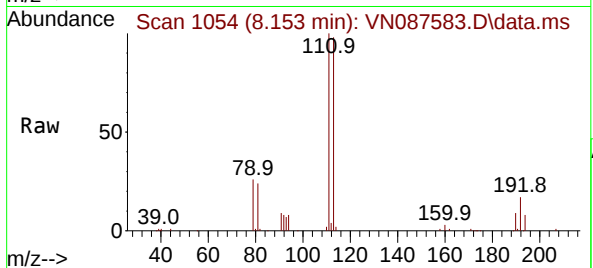
Lab File: VN087583.D

Acq: 15 Aug 2025 15:40

Instrument :

MSVOA_N

ClientSampleId :



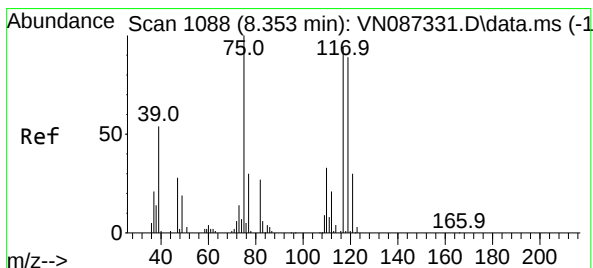
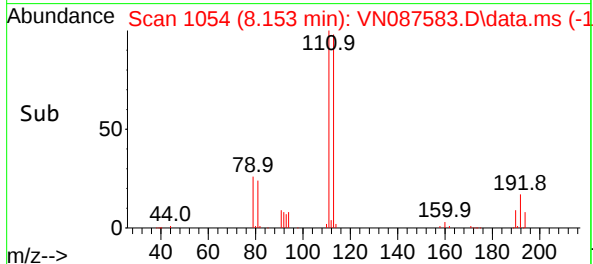
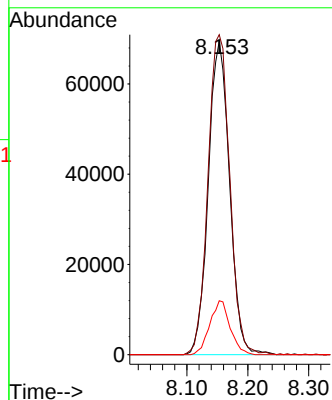
Tgt Ion:113 Resp: 168368

Ion Ratio Lower Upper

113 100

111 104.7 82.5 123.7

192 16.4 13.7 20.5



#36

1,1-Dichloropropene

Concen: 5.005 ug/l

RT: 8.206 min Scan# 1063

Delta R.T. -0.147 min

Lab File: VN087583.D

Acq: 15 Aug 2025 15:40

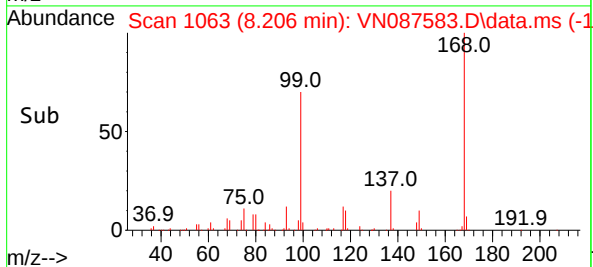
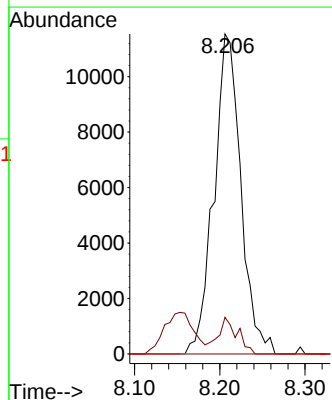
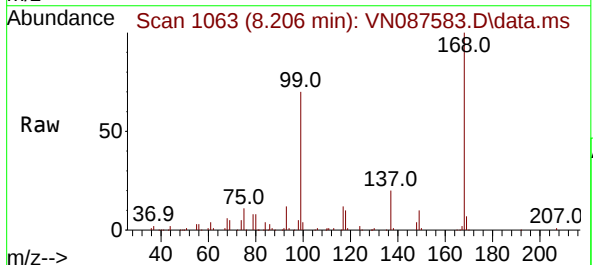
Tgt Ion: 75 Resp: 25329

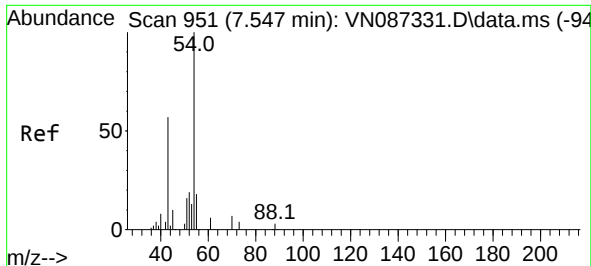
Ion Ratio Lower Upper

75 100

110 8.4 16.7 50.1#

77 0.0 25.2 37.8#





#37

Ethyl Acetate

Concen: 2.114 ug/l

RT: 7.477 min Scan# 91

Delta R.T. -0.070 min

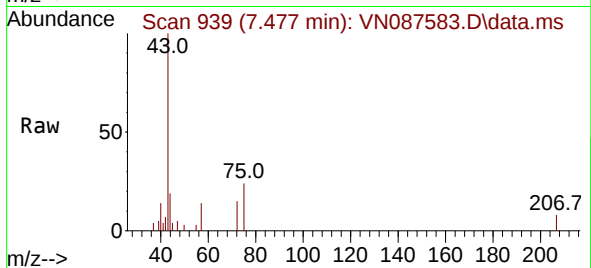
Lab File: VN087583.D

Acq: 15 Aug 2025 15:40

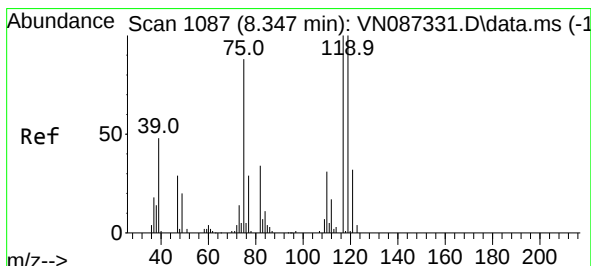
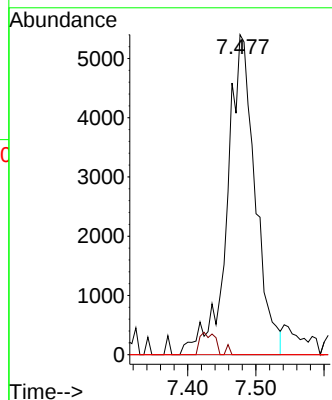
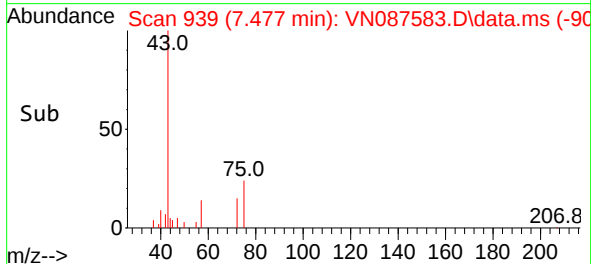
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	43	Resp:	15452
Ion	Ratio	Lower	Upper
43	100		
61	0.4	10.9	16.3#
70	0.0	7.4	11.0#



#38

Carbon Tetrachloride

Concen: 5.511 ug/l

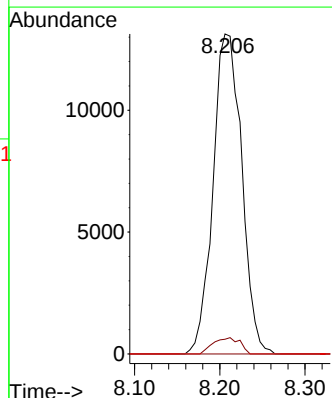
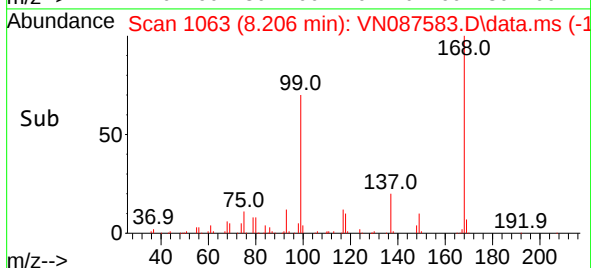
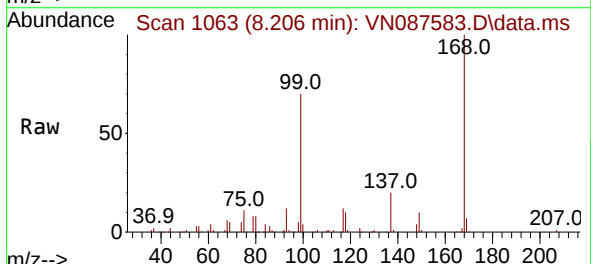
RT: 8.206 min Scan# 1063

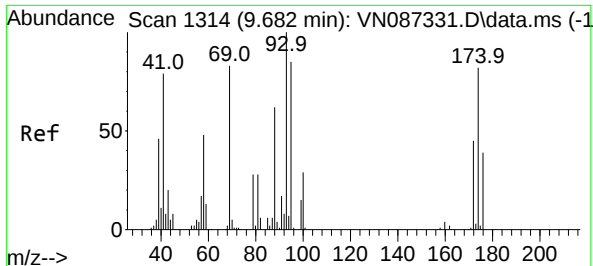
Delta R.T. -0.141 min

Lab File: VN087583.D

Acq: 15 Aug 2025 15:40

Tgt Ion:	117	Resp:	30726
Ion	Ratio	Lower	Upper
117	100		
119	4.6	80.2	120.2#
121	0.0	25.4	38.2#





#49

1,4-Dioxane

Concen: 1.048 ug/l

RT: 9.718 min Scan# 11

Delta R.T. 0.036 min

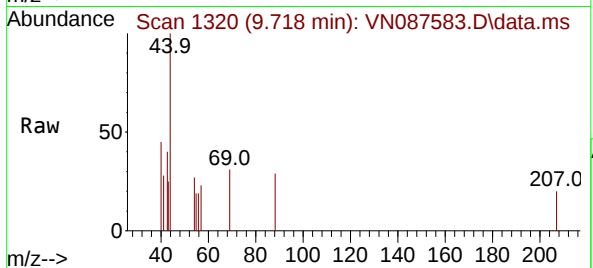
Lab File: VN087583.D

Acq: 15 Aug 2025 15:40

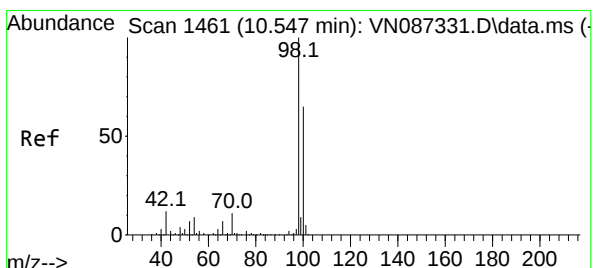
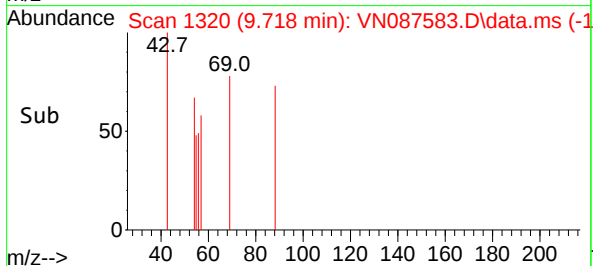
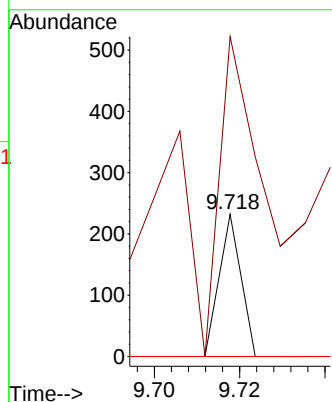
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	88	Resp:	82
Ion	Ratio	Lower	Upper
88	100		
43	536.6	0.0	0.0#
58	0.0	61.1	91.7#



#50

Toluene-d8

Concen: 45.578 ug/l

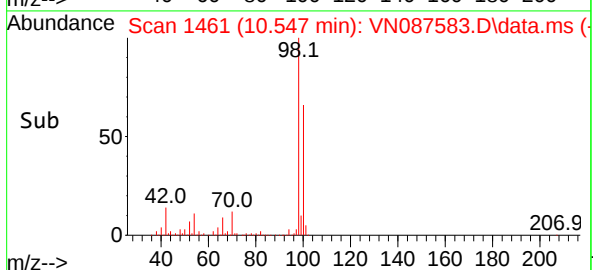
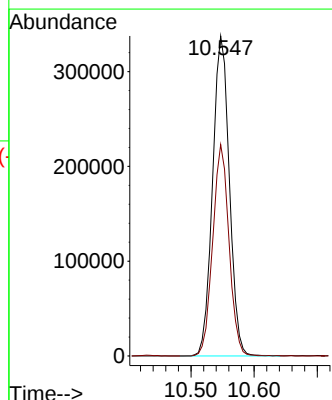
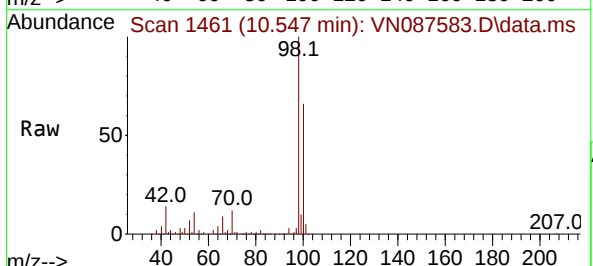
RT: 10.547 min Scan# 1461

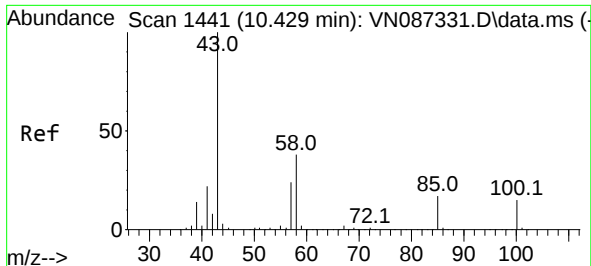
Delta R.T. 0.000 min

Lab File: VN087583.D

Acq: 15 Aug 2025 15:40

Tgt Ion:	98	Resp:	622791
Ion	Ratio	Lower	Upper
98	100		
100	64.1	52.1	78.1

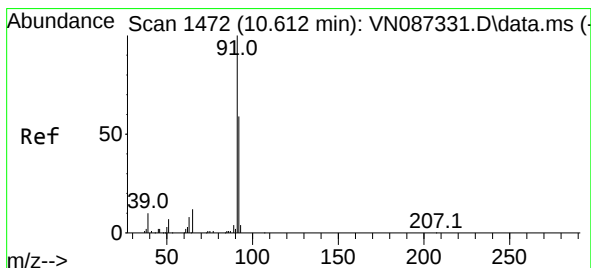
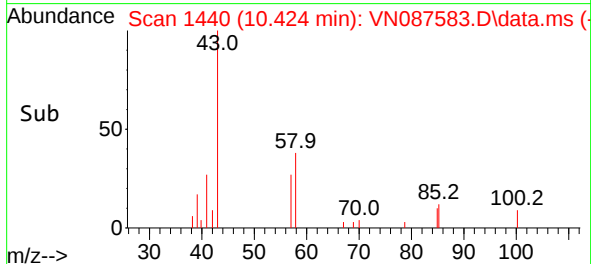
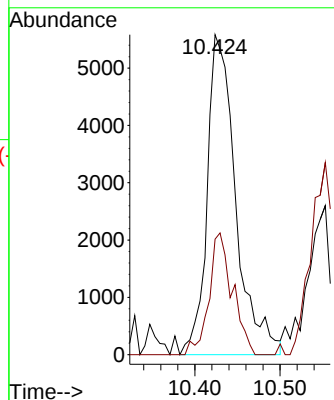
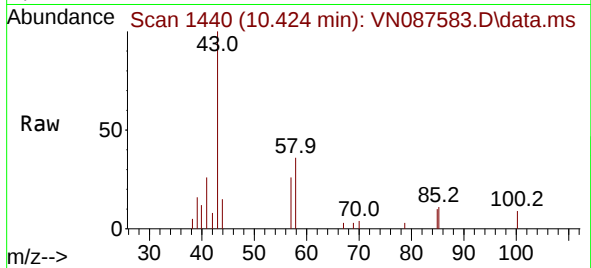




#51
4-Methyl-2-Pentanone
Concen: 1.816 ug/l
RT: 10.424 min Scan# 1440
Delta R.T. -0.005 min
Lab File: VN087583.D
Acq: 15 Aug 2025 15:40

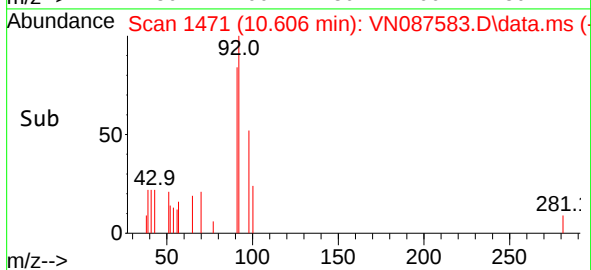
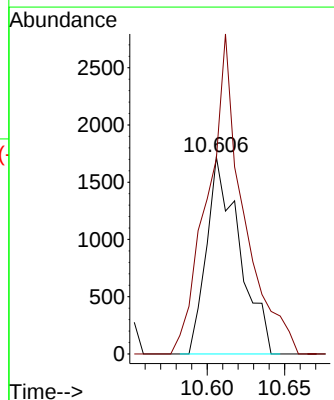
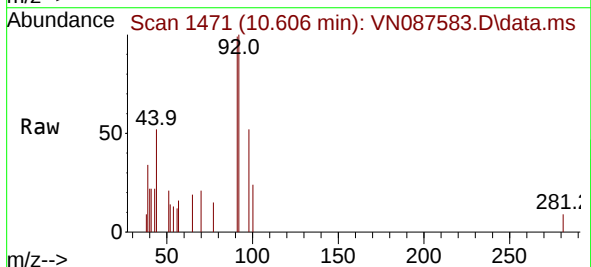
Instrument :
MSVOA_N
ClientSampleId :

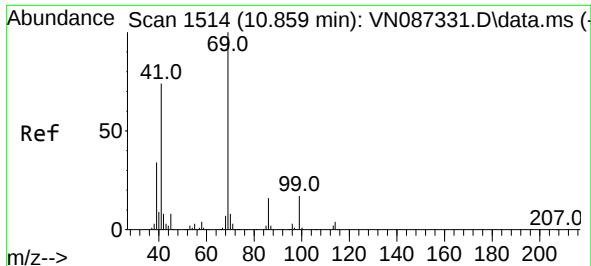
Tgt Ion: 43 Resp: 13035
Ion Ratio Lower Upper
43 100
58 31.3 30.8 46.2



#52
Toluene
Concen: 0.255 ug/l
RT: 10.606 min Scan# 1471
Delta R.T. -0.006 min
Lab File: VN087583.D
Acq: 15 Aug 2025 15:40

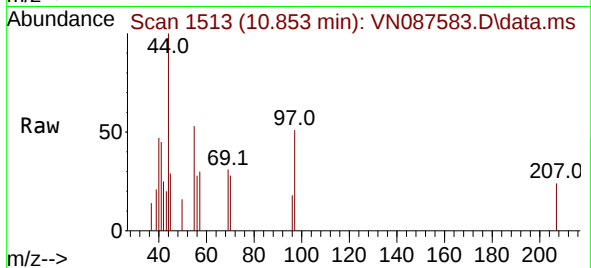
Tgt Ion: 92 Resp: 2537
Ion Ratio Lower Upper
92 100
91 175.2 135.1 202.7



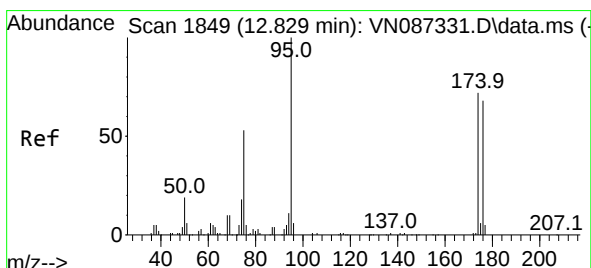
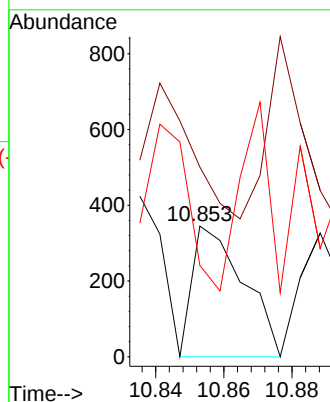
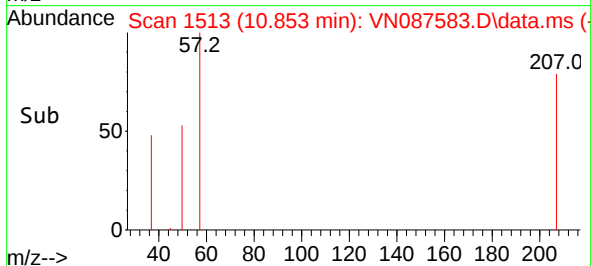


#56
Ethyl methacrylate
Concen: 0.689 ug/l
RT: 10.853 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN087583.D
Acq: 15 Aug 2025 15:40

Instrument :
MSVOA_N
ClientSampleId :

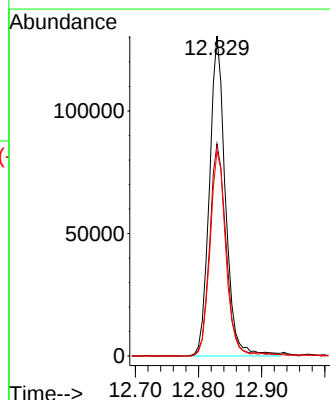
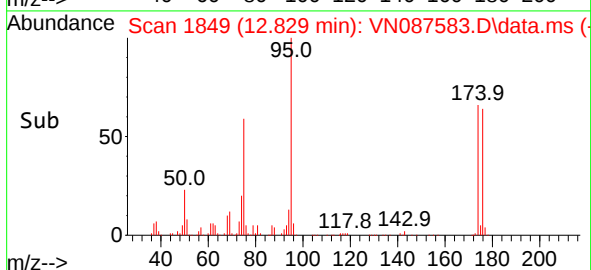
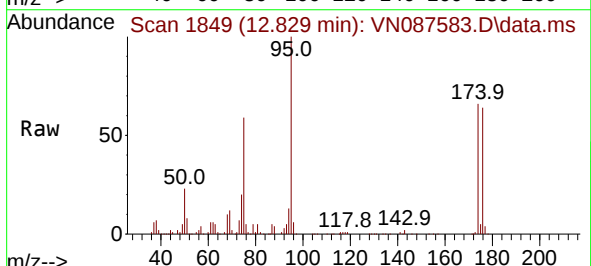


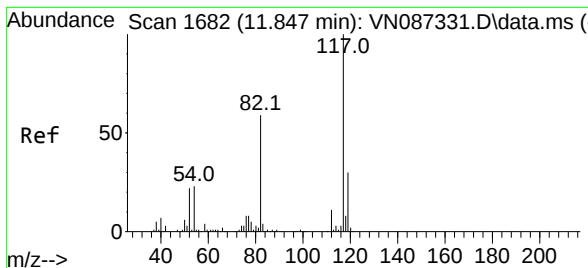
Tgt Ion: 69 Resp: 359
Ion Ratio Lower Upper
69 100
41 93.3 55.1 82.7#
39 0.0 27.9 41.9#



#62
4-Bromofluorobenzene
Concen: 45.546 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.000 min
Lab File: VN087583.D
Acq: 15 Aug 2025 15:40

Tgt Ion: 95 Resp: 229931
Ion Ratio Lower Upper
95 100
174 68.3 0.0 149.4
176 64.3 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: VN087583.D

Acq: 15 Aug 2025 15:40

Instrument :

MSVOA_N

ClientSampleId :

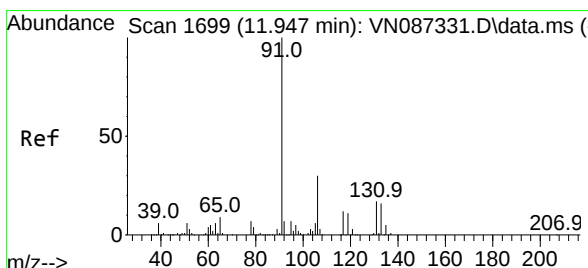
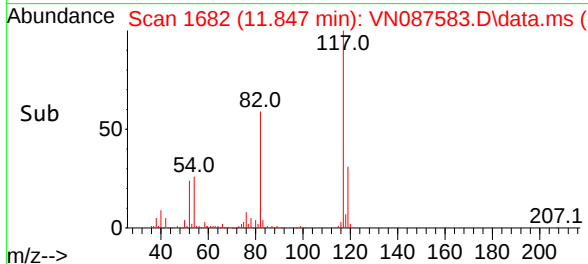
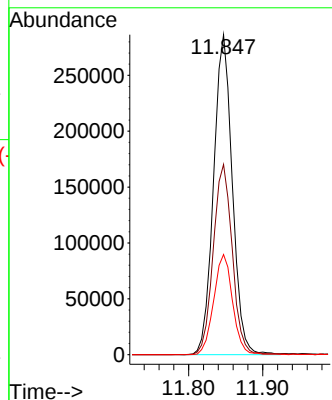
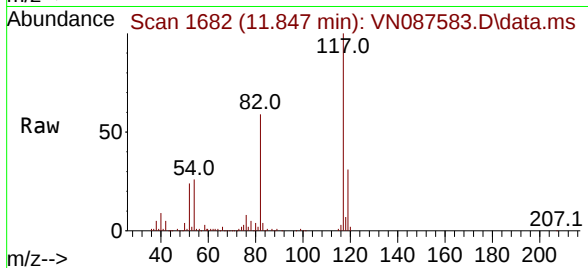
Tgt Ion:117 Resp: 503335

Ion Ratio Lower Upper

117 100

82 59.4 47.4 71.2

119 31.3 23.8 35.8



#67

Ethyl Benzene

Concen: 1.809 ug/l

RT: 11.947 min Scan# 1699

Delta R.T. 0.000 min

Lab File: VN087583.D

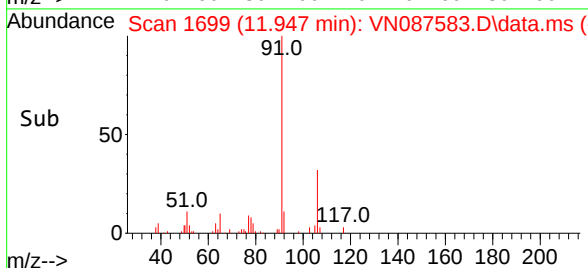
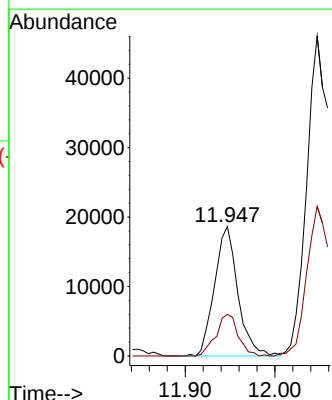
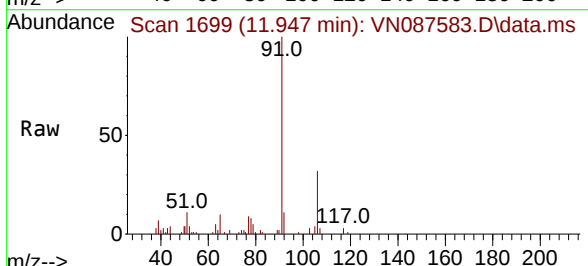
Acq: 15 Aug 2025 15:40

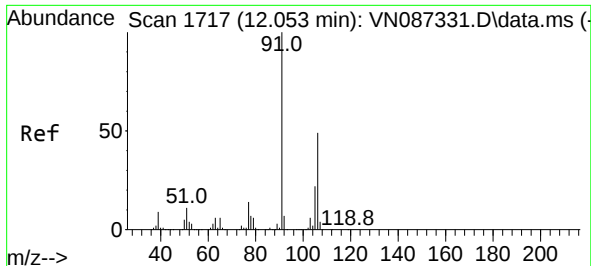
Tgt Ion: 91 Resp: 33655

Ion Ratio Lower Upper

91 100

106 32.1 24.3 36.5

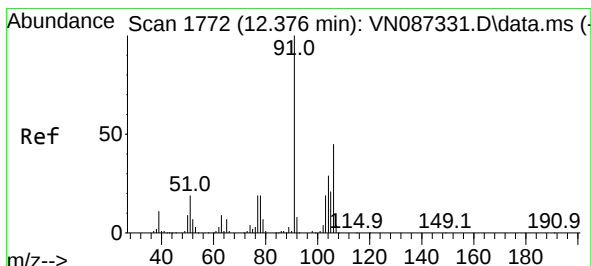
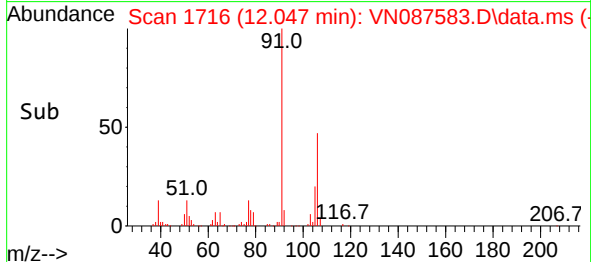
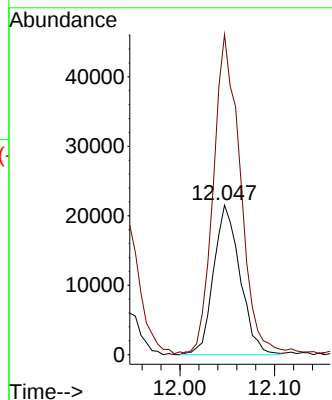
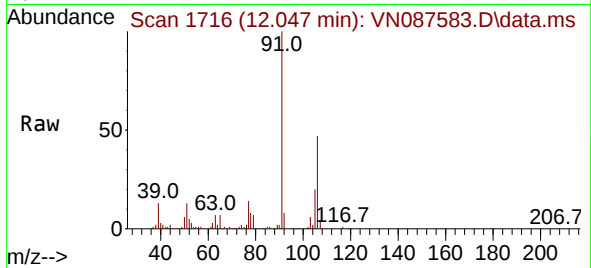




#68
m/p-Xylenes
Concen: 6.015 ug/l
RT: 12.047 min Scan# 1716
Delta R.T. -0.006 min
Lab File: VN087583.D
Acq: 15 Aug 2025 15:40

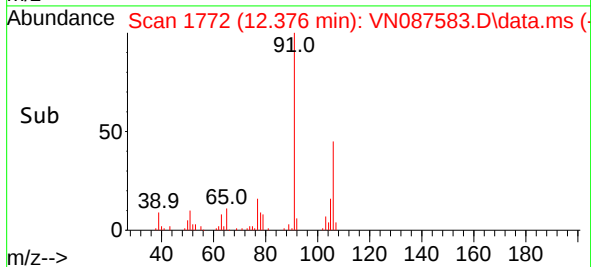
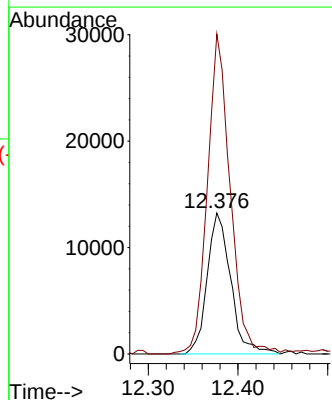
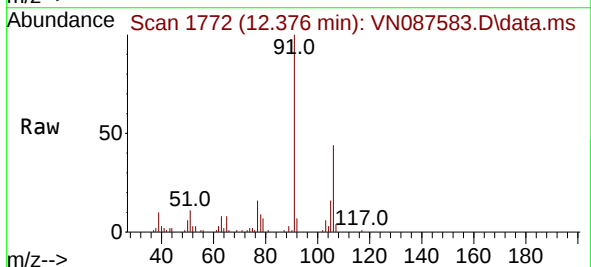
Instrument :
MSVOA_N
ClientSampleId :

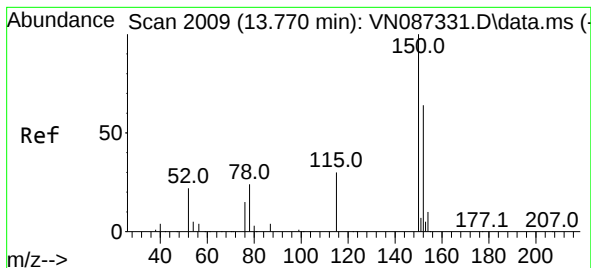
Tgt Ion:106 Resp: 41902
Ion Ratio Lower Upper
106 100
91 217.6 162.0 243.0



#69
o-Xylene
Concen: 3.622 ug/l
RT: 12.376 min Scan# 1772
Delta R.T. 0.000 min
Lab File: VN087583.D
Acq: 15 Aug 2025 15:40

Tgt Ion:106 Resp: 24100
Ion Ratio Lower Upper
106 100
91 221.1 107.7 323.3





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.770 min Scan# 2009

Delta R.T. 0.000 min

Lab File: VN087583.D

Acq: 15 Aug 2025 15:40

Instrument :

MSVOA_N

ClientSampleId :

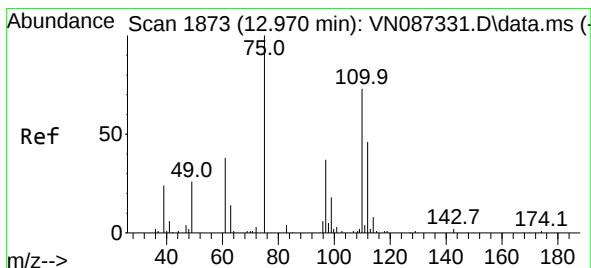
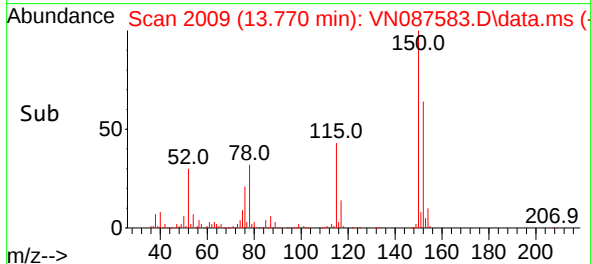
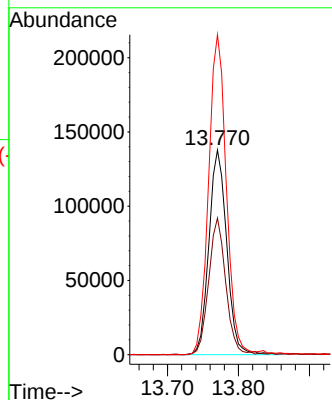
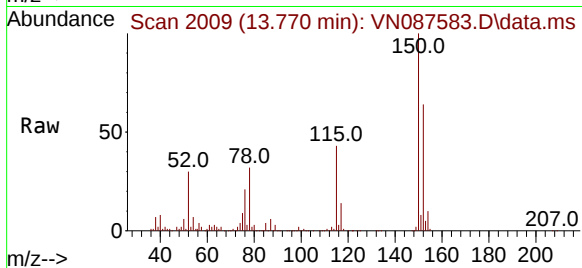
Tgt Ion:152 Resp: 241136

Ion Ratio Lower Upper

152 100

115 64.1 31.1 93.5

150 154.5 0.0 349.0



#76

1,2,3-Trichloropropane

Concen: 24.893 ug/l

RT: 12.829 min Scan# 1849

Delta R.T. -0.141 min

Lab File: VN087583.D

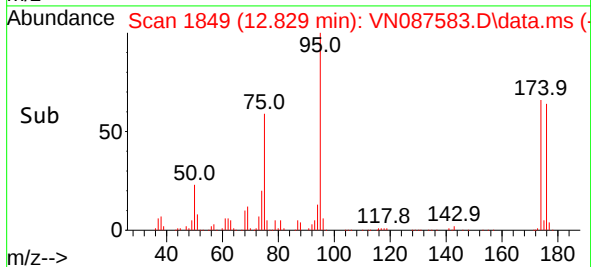
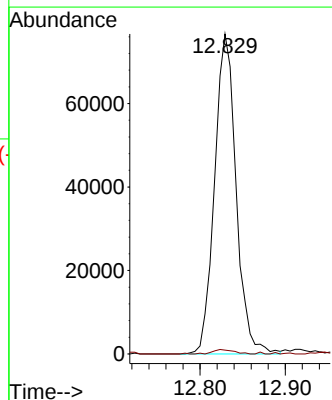
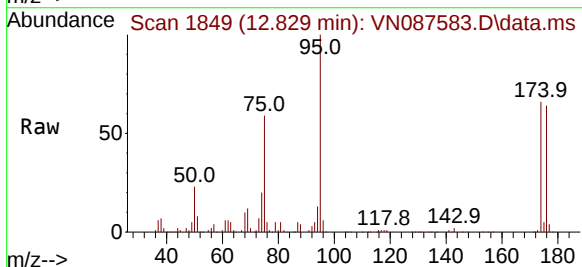
Acq: 15 Aug 2025 15:40

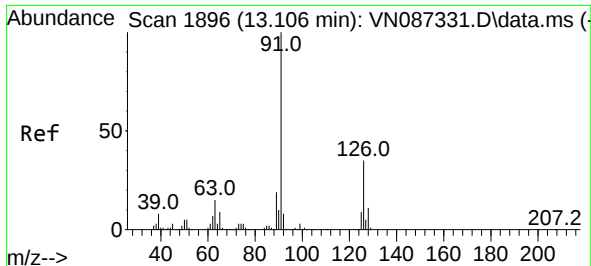
Tgt Ion: 75 Resp: 134602

Ion Ratio Lower Upper

75 100

77 1.4 94.5 283.6#

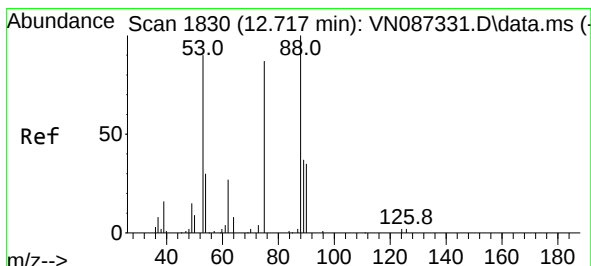
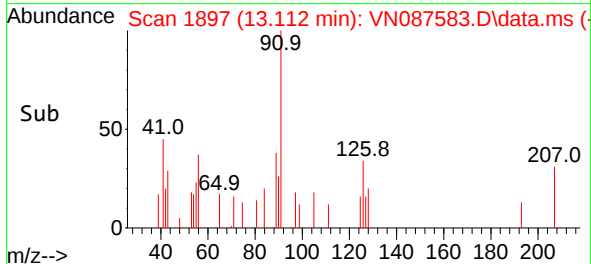
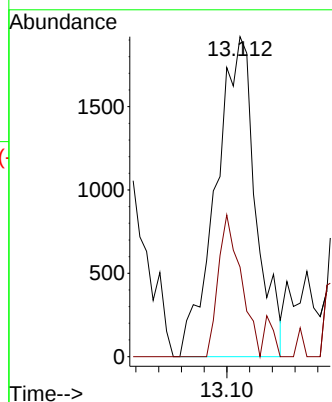
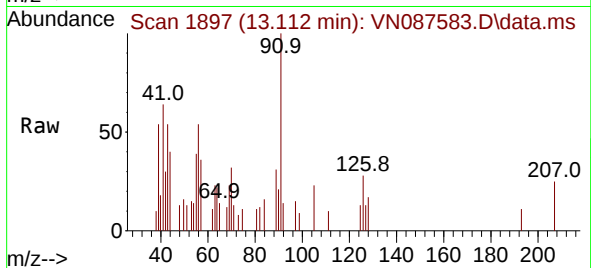




#79
2-Chlorotoluene
Concen: 0.398 ug/l
RT: 13.112 min Scan# 1897
Delta R.T. 0.006 min
Lab File: VN087583.D
Acq: 15 Aug 2025 15:40

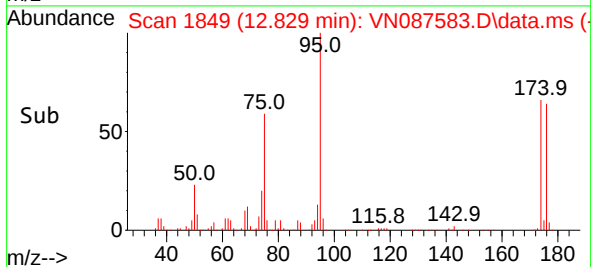
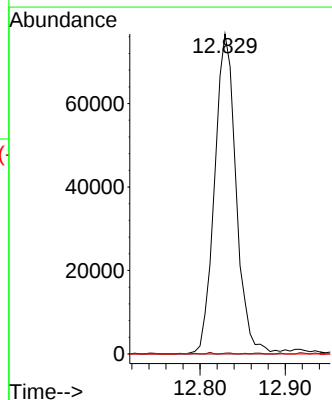
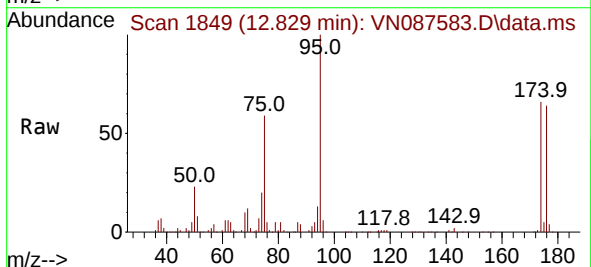
Instrument :
MSVOA_N
ClientSampleId :

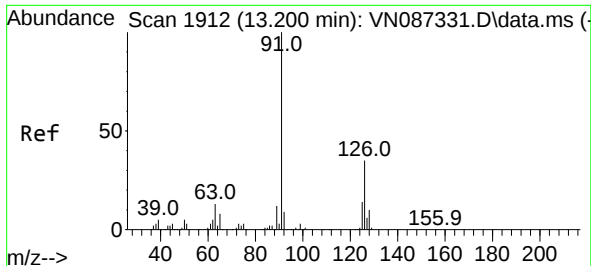
Tgt Ion: 91 Resp: 4671
Ion Ratio Lower Upper
91 100
126 25.2 16.9 50.6



#81
trans-1,4-Dichloro-2-butene
Concen: 68.111 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.112 min
Lab File: VN087583.D
Acq: 15 Aug 2025 15:40

Tgt Ion: 75 Resp: 134602
Ion Ratio Lower Upper
75 100
53 0.1 83.5 125.3#
89 0.0 38.4 57.6#

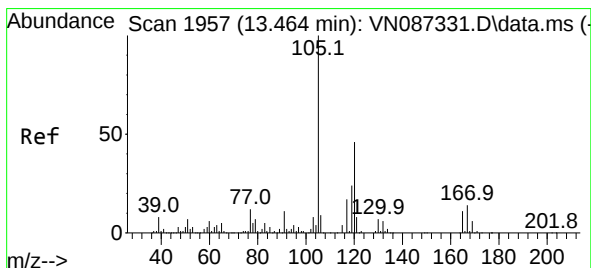
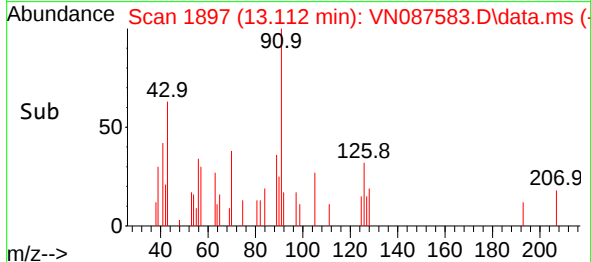
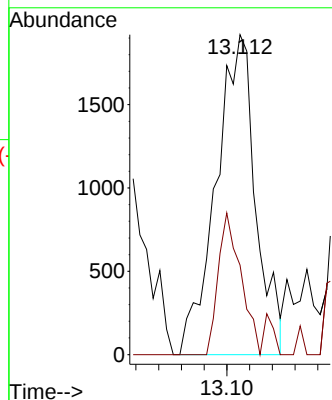
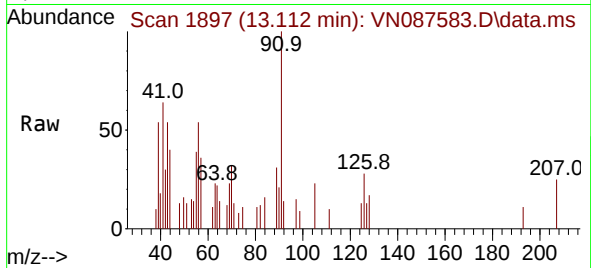




#82
4-Chlorotoluene
Concen: 0.382 ug/l
RT: 13.112 min Scan# 1912
Delta R.T. -0.088 min
Lab File: VN087583.D
Acq: 15 Aug 2025 15:40

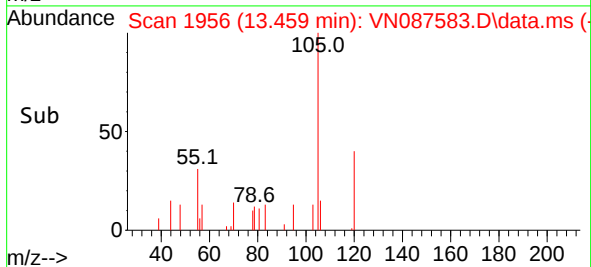
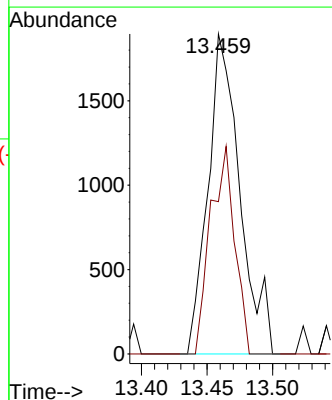
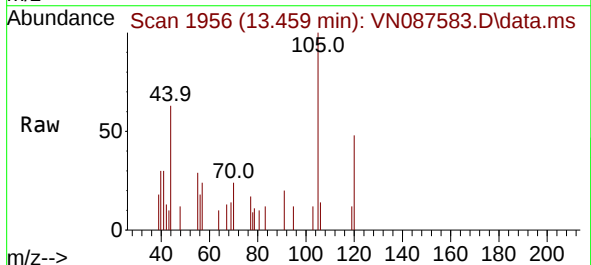
Instrument :
MSVOA_N
ClientSampleId :

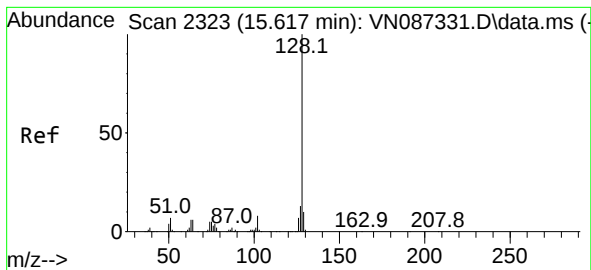
Tgt Ion: 91 Resp: 4671
Ion Ratio Lower Upper
91 100
126 25.2 16.6 49.7



#84
1,2,4-Trimethylbenzene
Concen: 0.243 ug/l
RT: 13.459 min Scan# 1956
Delta R.T. -0.006 min
Lab File: VN087583.D
Acq: 15 Aug 2025 15:40

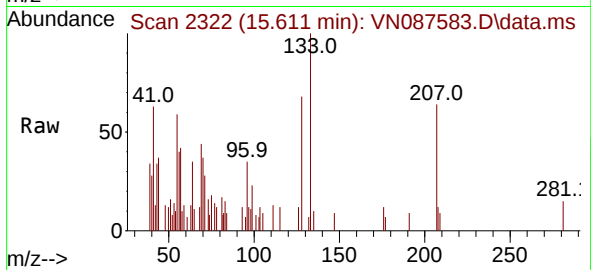
Tgt Ion: 105 Resp: 3203
Ion Ratio Lower Upper
105 100
120 49.4 22.8 68.3





#95
Naphthalene
Concen: 0.241 ug/l
RT: 15.611 min Scan# 21
Delta R.T. -0.006 min
Lab File: VN087583.D
Acq: 15 Aug 2025 15:40

Instrument :
MSVOA_N
ClientSampleId :



Tgt Ion:128 Resp: 3671
Ion Ratio Lower Upper
128 100
127 7.0 10.5 15.7#
129 5.3 8.4 12.6#

