

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN092625\
 Data File : VN087968.D
 Acq On : 26 Sep 2025 15:49
 Operator : JC\MD
 Sample : Q3181-05
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 WC-A3-02-G

Quant Time: Sep 27 01:27:19 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N092325W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 24 05:05:30 2025
 Response via : Initial Calibration

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

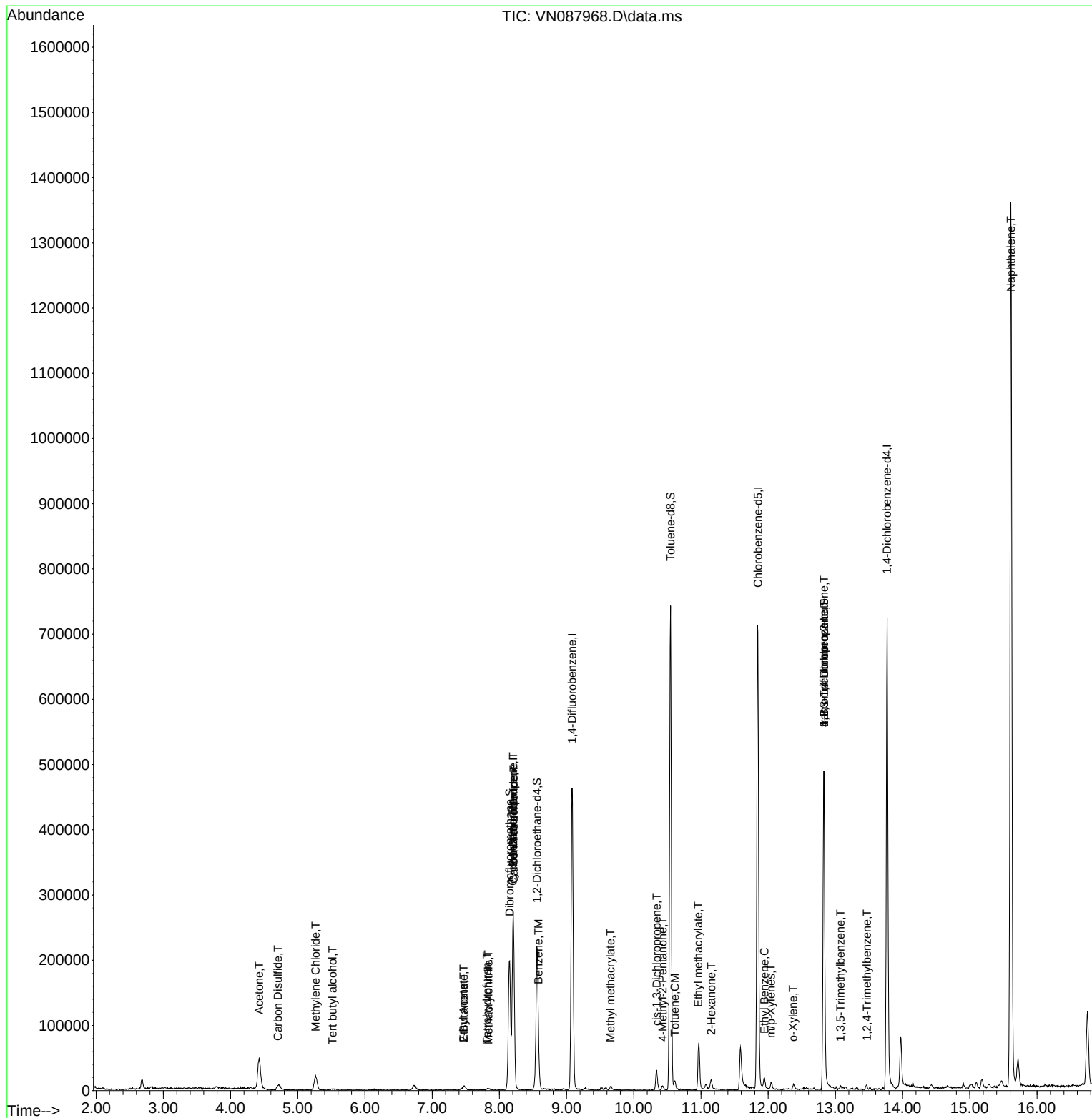
Internal Standards						
1) Pentafluorobenzene	8.206	168	183424	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	408536	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.847	117	411042	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	193008	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	171121	55.435	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 110.860%			
35) Dibromofluoromethane	8.153	113	142787	48.138	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 96.280%			
50) Toluene-d8	10.547	98	500395	47.972	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 95.940%			
62) 4-Bromofluorobenzene	12.829	95	166926	44.770	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 89.540%			
Target Compounds					Qvalue	
11) Tert butyl alcohol	5.518	59	2868	6.450	ug/l #	71
16) Acetone	4.424	43	90660	71.381	ug/l	99
17) Carbon Disulfide	4.706	76	2788	0.463	ug/l #	76
20) Methylene Chloride	5.265	84	15840	6.162	ug/l #	96
25) 2-Butanone	7.471	43	8922	4.596	ug/l #	82
29) Tetrahydrofuran	7.818	42	896	0.721	ug/l #	75
31) Cyclohexane	8.200	56	5737	1.657	ug/l #	18
36) 1,1-Dichloropropene	8.206	75	17147	4.808	ug/l #	52
37) Ethyl Acetate	7.471	43	8922	1.905	ug/l #	76
38) Carbon Tetrachloride	8.212	117	20937	5.116	ug/l #	18
40) Benzene	8.582	78	12191	1.032	ug/l #	90
41) Methacrylonitrile	7.835	41	1479	0.611	ug/l #	37
48) Methyl methacrylate	9.653	41	1285	0.376	ug/l #	45
51) 4-Methyl-2-Pentanone	10.429	43	5338	1.160	ug/l	89
52) Toluene	10.612	92	4996	0.674	ug/l	78
54) cis-1,3-Dichloropropene	10.341	75	5385	1.105	ug/l #	73
56) Ethyl methacrylate	10.959	69	1318	0.303	ug/l #	1
59) 2-Hexanone	11.153	43	11146	3.664	ug/l #	25
67) Ethyl Benzene	11.947	91	11101	0.761	ug/l	96
68) m/p-Xylenes	12.041	106	2909	0.521	ug/l	88
69) o-Xylene	12.370	106	1945	0.363	ug/l	70
76) 1,2,3-Trichloropropane	12.829	75	94738	24.901	ug/l #	1
80) 1,3,5-Trimethylbenzene	13.076	105	3174	0.307	ug/l	97
81) trans-1,4-Dichloro-2-b...	12.829	75	94738	69.146	ug/l #	9
84) 1,2,4-Trimethylbenzene	13.470	105	4721	0.445	ug/l	100
95) Naphthalene	15.611	128	1207154	106.389	ug/l	99

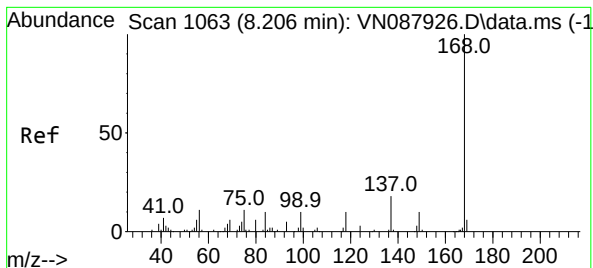
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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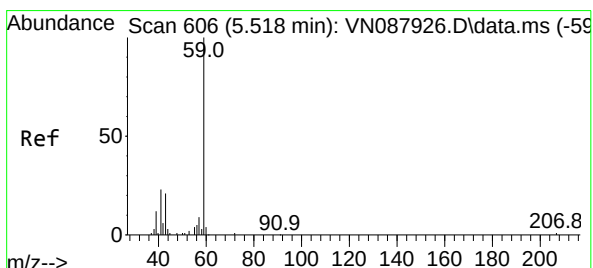
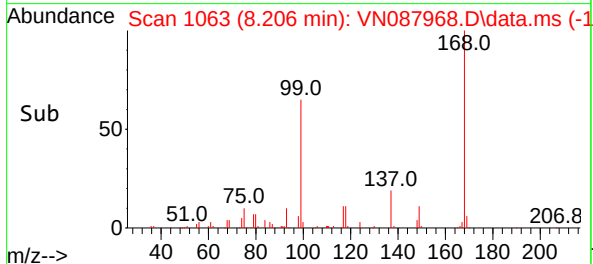
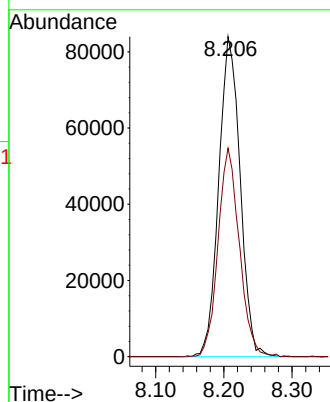
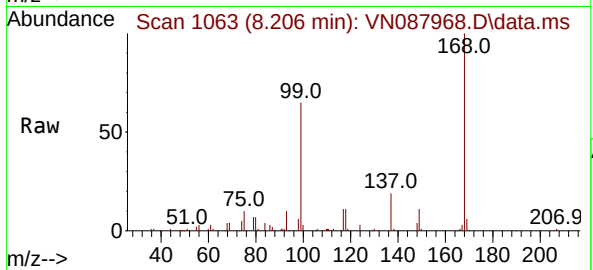




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. 0.000 min
Lab File: VN087968.D
Acq: 26 Sep 2025 15:49

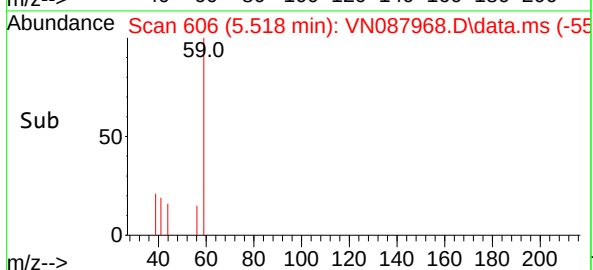
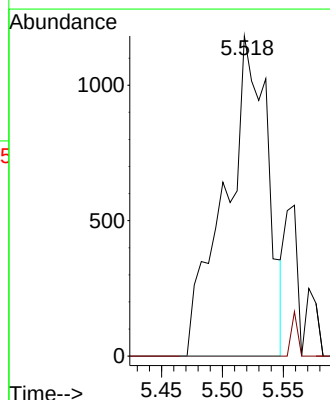
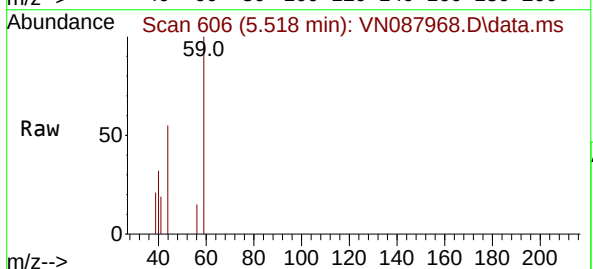
Instrument :
MSVOA_N
ClientSampleId :
WC-A3-02-G

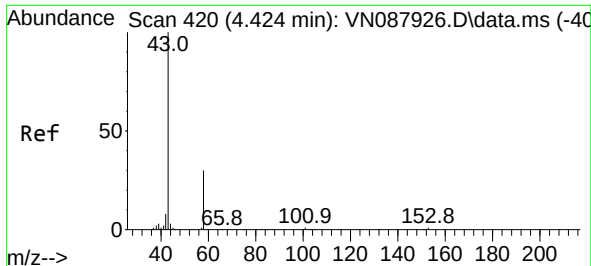
Tgt Ion:168 Resp: 183424
Ion Ratio Lower Upper
168 100
99 65.2 52.2 78.2



#11
Tert butyl alcohol
Concen: 6.450 ug/l
RT: 5.518 min Scan# 606
Delta R.T. -0.000 min
Lab File: VN087968.D
Acq: 26 Sep 2025 15:49

Tgt Ion: 59 Resp: 2868
Ion Ratio Lower Upper
59 100
57 0.0 8.8 13.2#

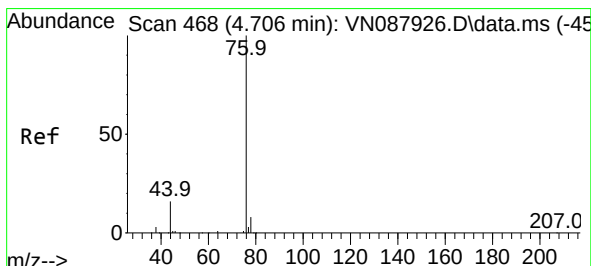
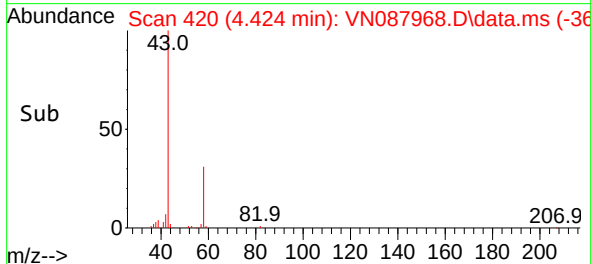
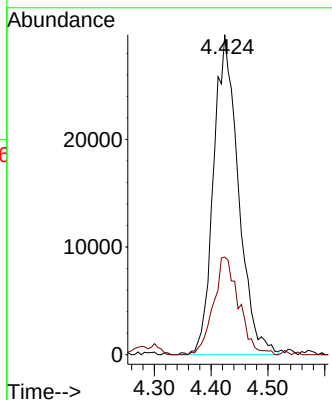
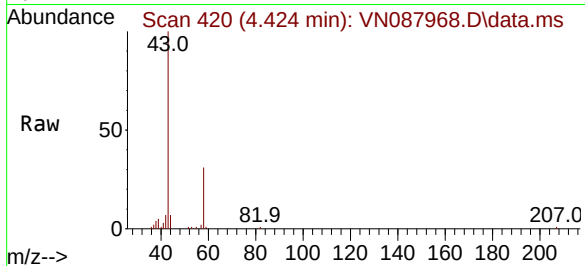




#16
Acetone
Concen: 71.381 ug/l
RT: 4.424 min Scan# 41
Delta R.T. -0.000 min
Lab File: VN087968.D
Acq: 26 Sep 2025 15:49

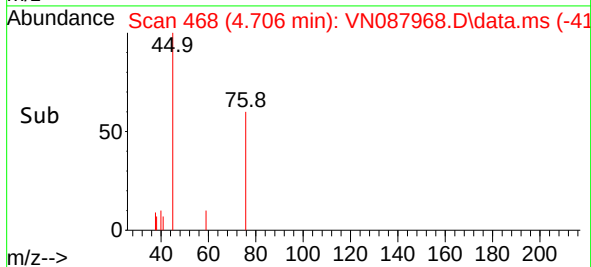
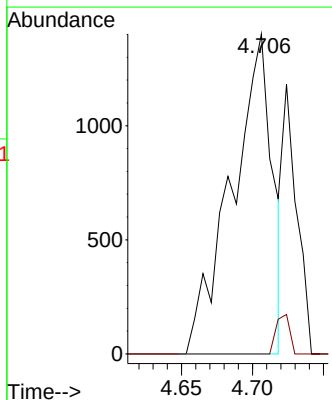
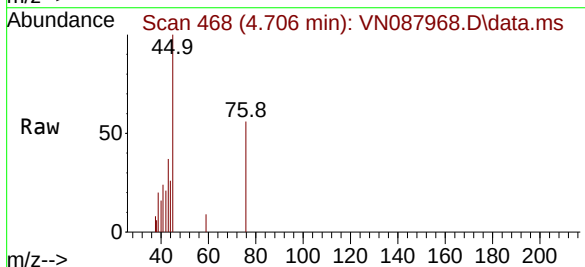
Instrument :
MSVOA_N
ClientSampleId :
WC-A3-02-G

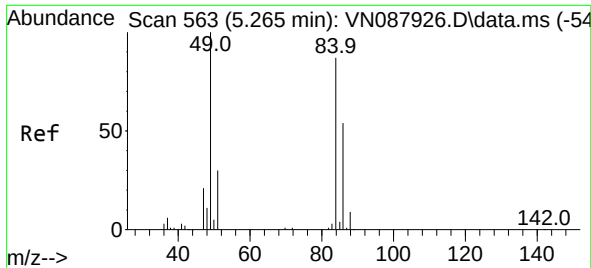
Tgt Ion: 43 Resp: 90660
Ion Ratio Lower Upper
43 100
58 30.5 24.1 36.1



#17
Carbon Disulfide
Concen: 0.463 ug/l
RT: 4.706 min Scan# 468
Delta R.T. -0.000 min
Lab File: VN087968.D
Acq: 26 Sep 2025 15:49

Tgt Ion: 76 Resp: 2788
Ion Ratio Lower Upper
76 100
78 0.0 6.7 10.1#

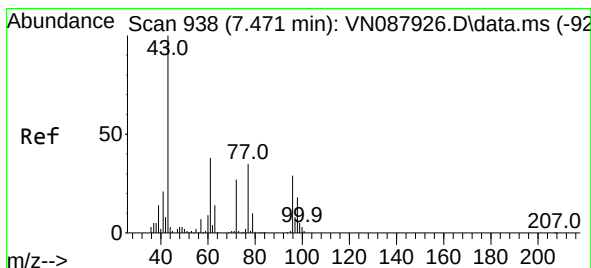
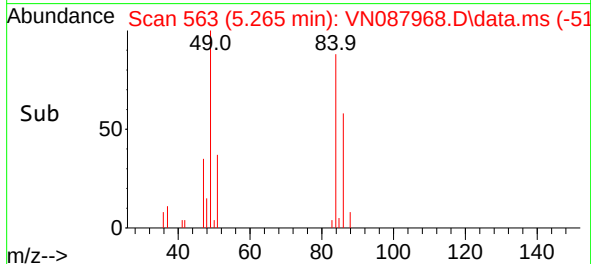
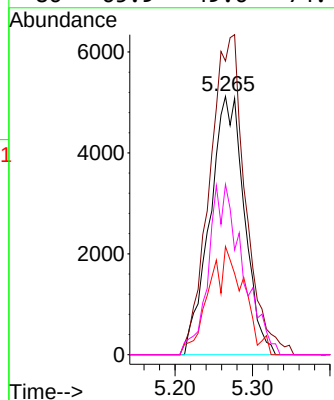
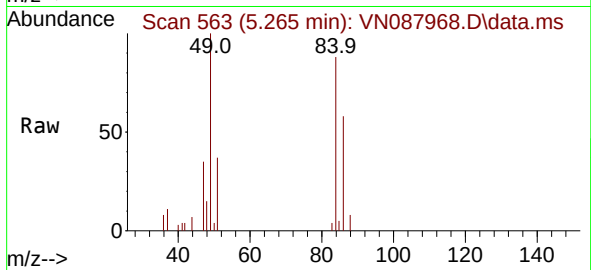




#20
Methylene Chloride
Concen: 6.162 ug/l
RT: 5.265 min Scan# 51
Delta R.T. -0.000 min
Lab File: VN087968.D
Acq: 26 Sep 2025 15:49

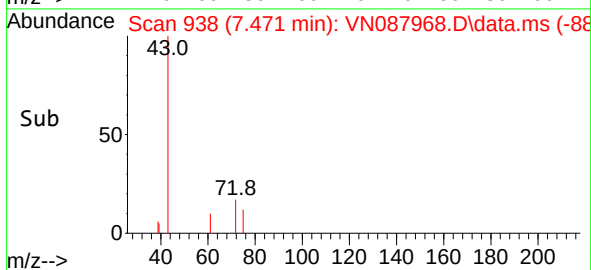
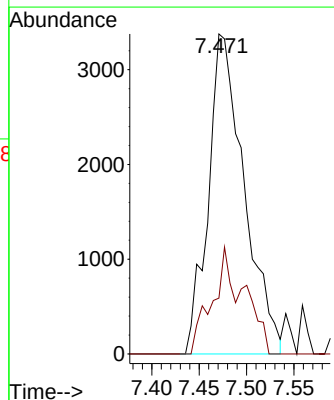
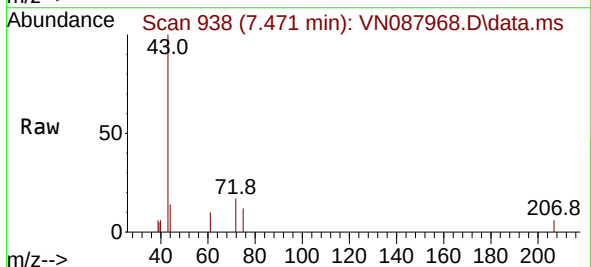
Instrument :
MSVOA_N
ClientSampleId :
WC-A3-02-G

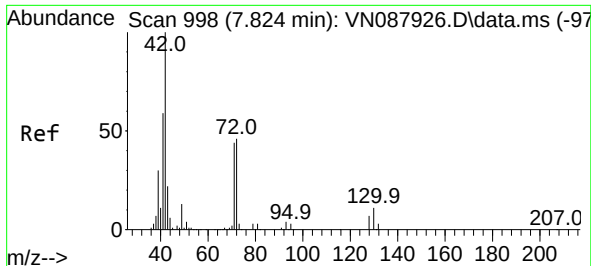
Tgt Ion: 84	Resp: 15840
Ion Ratio	Lower Upper
84 100	
49 113.7	92.1 138.1
51 41.9	27.7 41.5#
86 65.9	49.6 74.4



#25
2-Butanone
Concen: 4.596 ug/l
RT: 7.471 min Scan# 938
Delta R.T. -0.000 min
Lab File: VN087968.D
Acq: 26 Sep 2025 15:49

Tgt Ion: 43	Resp: 8922		
Ion Ratio	Lower	Upper	
43 100			
72 17.4	21.5	32.3#	

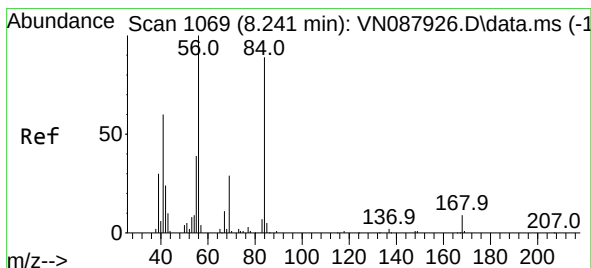
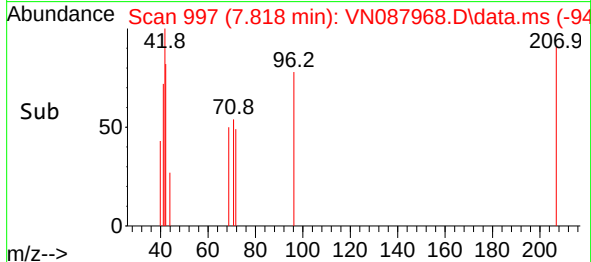
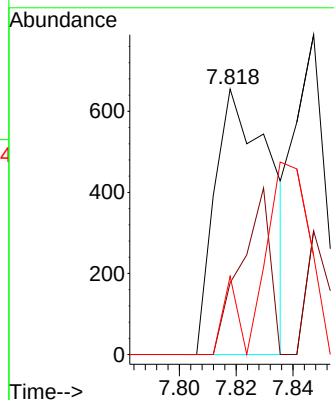
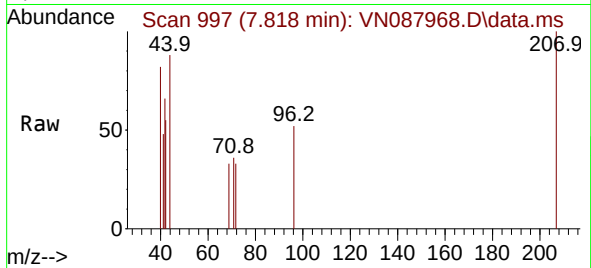




#29
Tetrahydrofuran
Concen: 0.721 ug/l
RT: 7.818 min Scan# 997
Delta R.T. -0.006 min
Lab File: VN087968.D
Acq: 26 Sep 2025 15:49

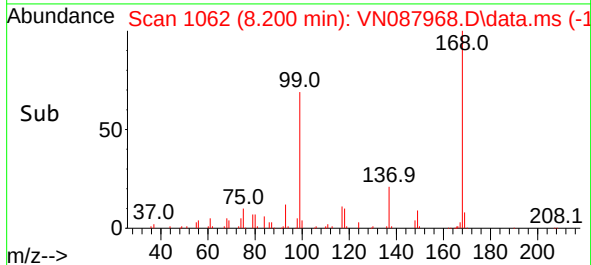
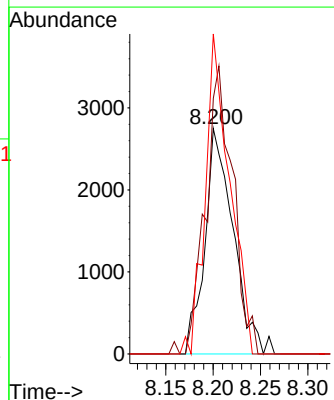
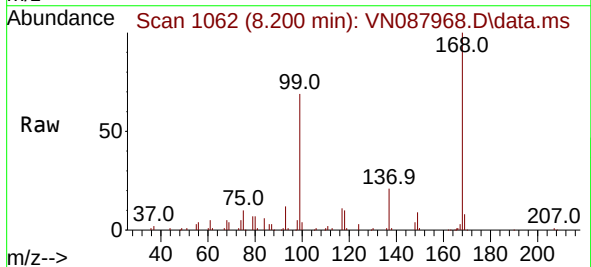
Instrument :
MSVOA_N
ClientSampleId :
WC-A3-02-G

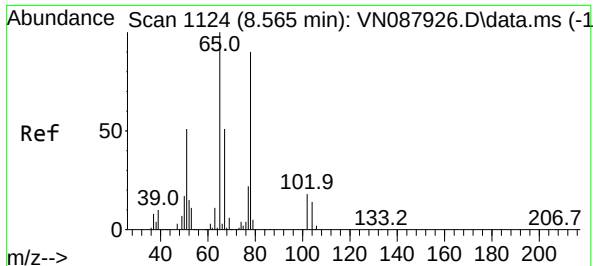
Tgt Ion:	42	Resp:	896
Ion	Ratio	Lower	Upper
42	100		
72	32.8	36.5	54.7#
71	62.4	33.8	50.8#



#31
Cyclohexane
Concen: 1.657 ug/l
RT: 8.200 min Scan# 1062
Delta R.T. -0.041 min
Lab File: VN087968.D
Acq: 26 Sep 2025 15:49

Tgt Ion:	56	Resp:	5737
Ion	Ratio	Lower	Upper
56	100		
69	113.5	23.4	35.0#
84	142.0	70.8	106.2#





#33

1,2-Dichloroethane-d4

Concen: 55.435 ug/l

RT: 8.559 min Scan# 1123

Delta R.T. -0.006 min

Lab File: VN087968.D

Acq: 26 Sep 2025 15:49

Instrument :

MSVOA_N

ClientSampleId :

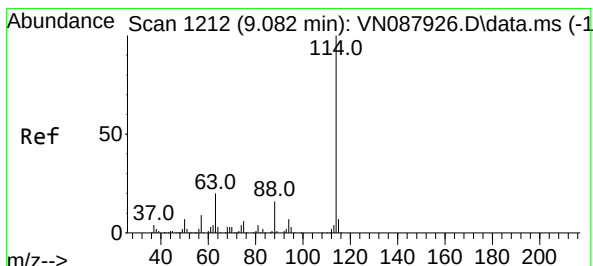
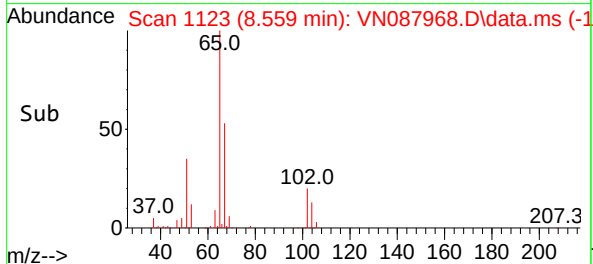
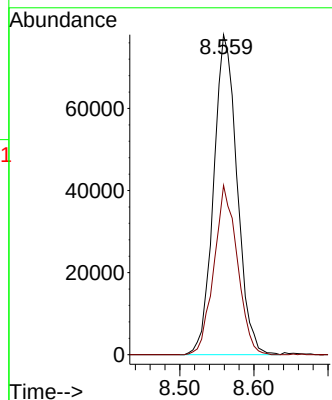
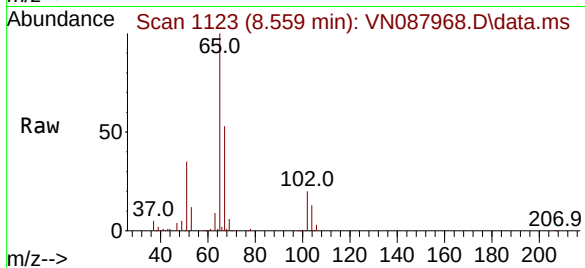
WC-A3-02-G

Tgt Ion: 65 Resp: 171121

Ion Ratio Lower Upper

65 100

67 52.7 0.0 103.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.082 min Scan# 1212

Delta R.T. -0.000 min

Lab File: VN087968.D

Acq: 26 Sep 2025 15:49

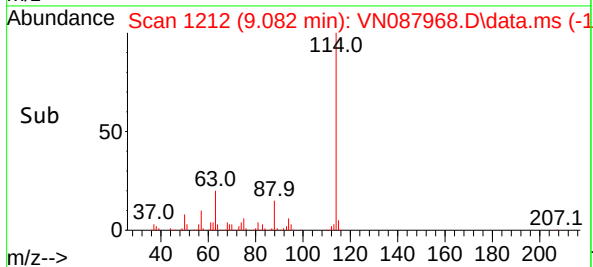
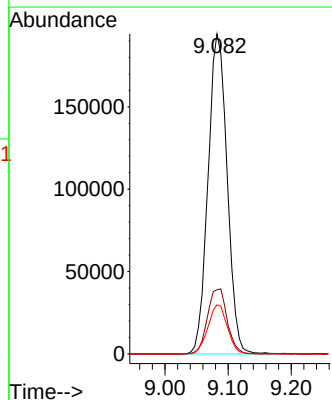
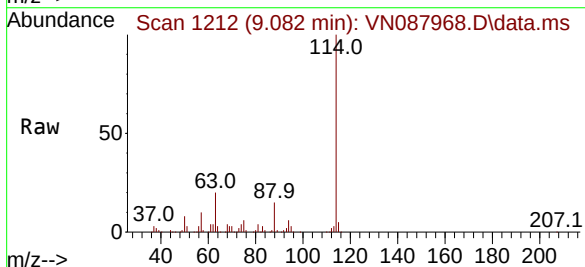
Tgt Ion: 114 Resp: 408536

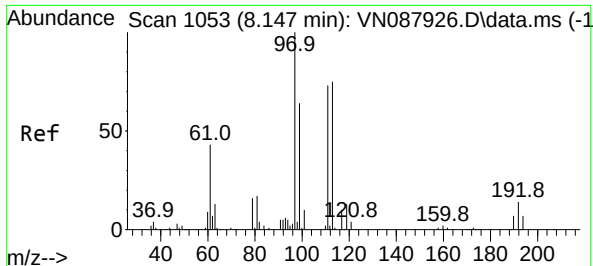
Ion Ratio Lower Upper

114 100

63 20.0 0.0 40.0

88 15.3 0.0 31.8





#35

Dibromofluoromethane

Concen: 48.138 ug/l

RT: 8.153 min Scan# 1054

Delta R.T. 0.006 min

Lab File: VN087968.D

Acq: 26 Sep 2025 15:49

Instrument :

MSVOA_N

ClientSampleId :

WC-A3-02-G

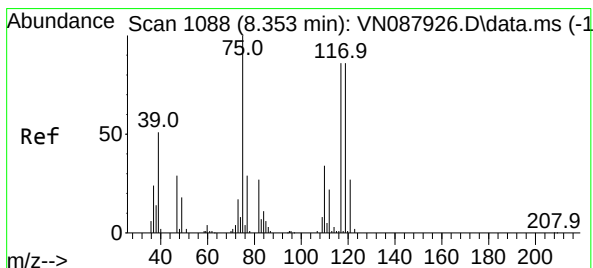
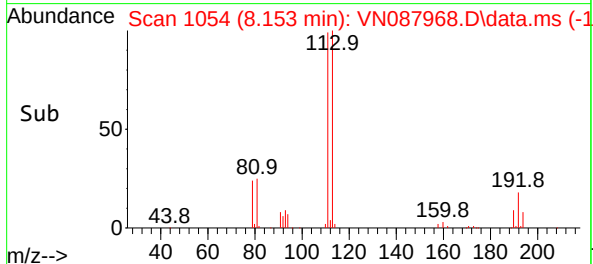
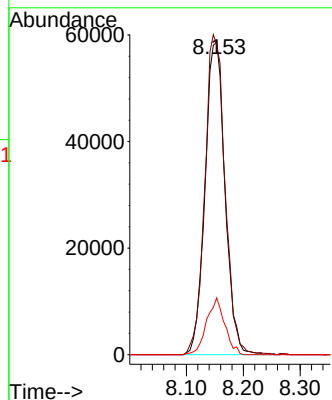
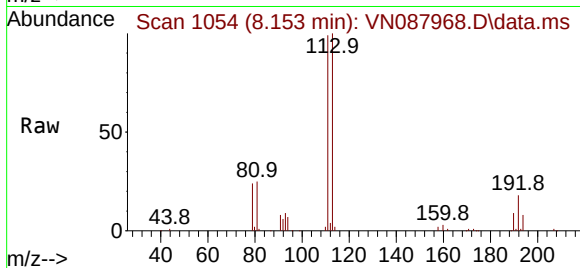
Tgt Ion:113 Resp: 142787

Ion Ratio Lower Upper

113 100

111 103.4 82.2 123.2

192 16.6 14.2 21.2



#36

1,1-Dichloropropene

Concen: 4.808 ug/l

RT: 8.206 min Scan# 1063

Delta R.T. -0.147 min

Lab File: VN087968.D

Acq: 26 Sep 2025 15:49

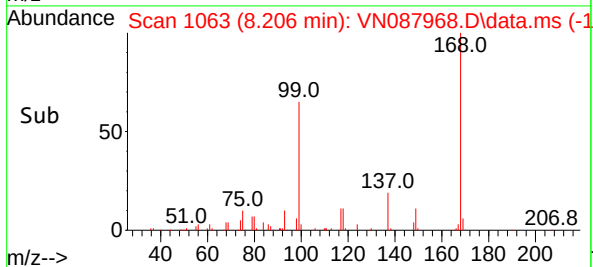
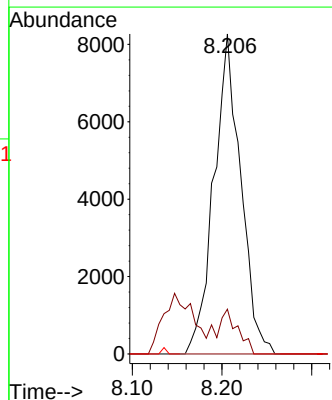
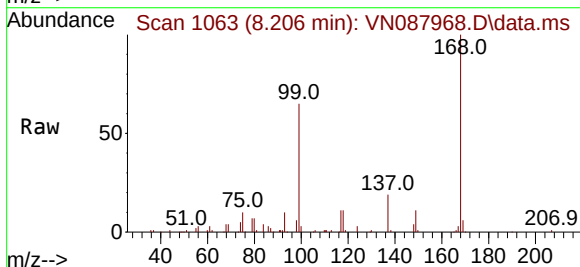
Tgt Ion: 75 Resp: 17147

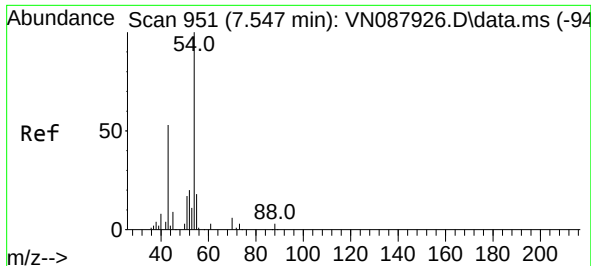
Ion Ratio Lower Upper

75 100

110 11.1 17.1 51.3#

77 0.0 24.8 37.2#

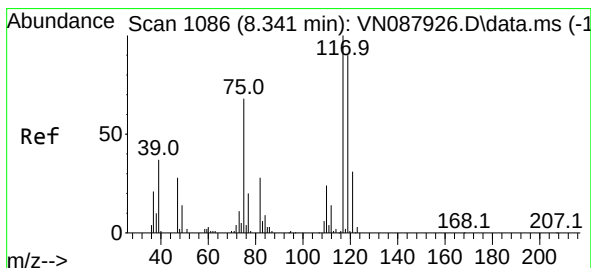
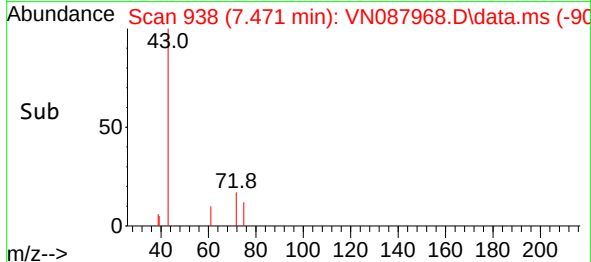
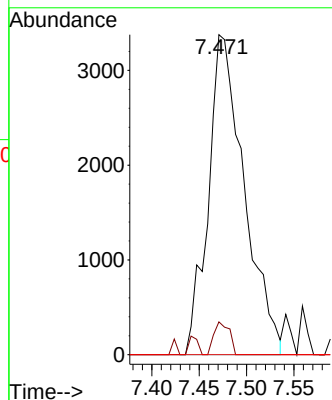
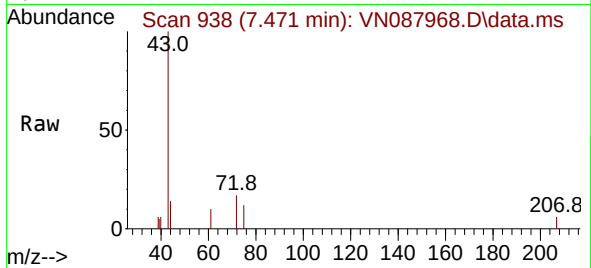




#37
Ethyl Acetate
Concen: 1.905 ug/l
RT: 7.471 min Scan# 91
Delta R.T. -0.076 min
Lab File: VN087968.D
Acq: 26 Sep 2025 15:49

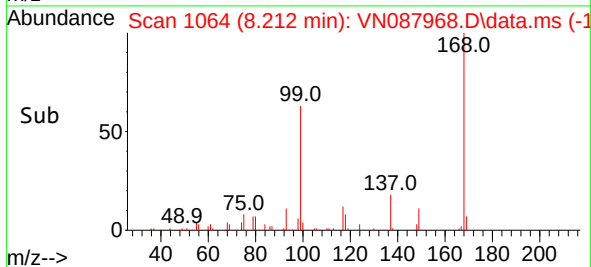
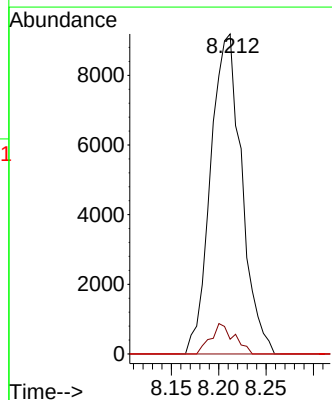
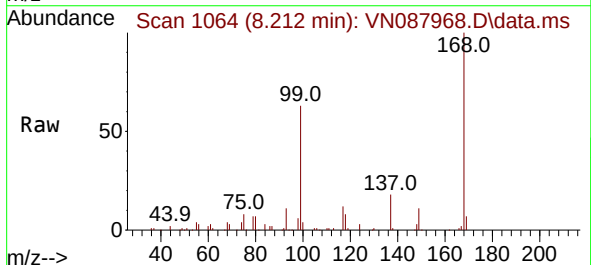
Instrument :
MSVOA_N
ClientSampleId :
WC-A3-02-G

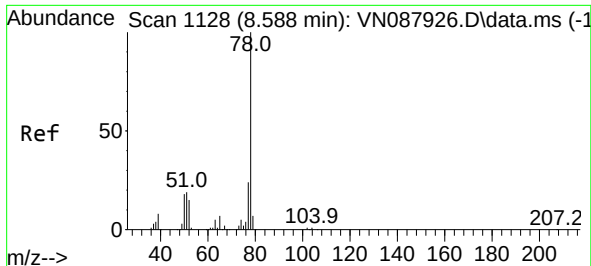
Tgt Ion: 43 Resp: 8922
Ion Ratio Lower Upper
43 100
61 4.4 10.7 16.1#
70 0.0 7.8 11.8#



#38
Carbon Tetrachloride
Concen: 5.116 ug/l
RT: 8.212 min Scan# 1064
Delta R.T. -0.129 min
Lab File: VN087968.D
Acq: 26 Sep 2025 15:49

Tgt Ion: 117 Resp: 20937
Ion Ratio Lower Upper
117 100
119 4.6 72.1 108.1#
121 0.0 24.6 36.8#

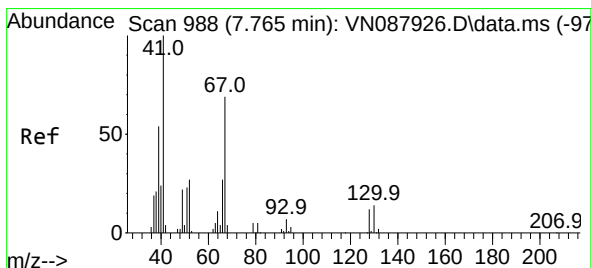
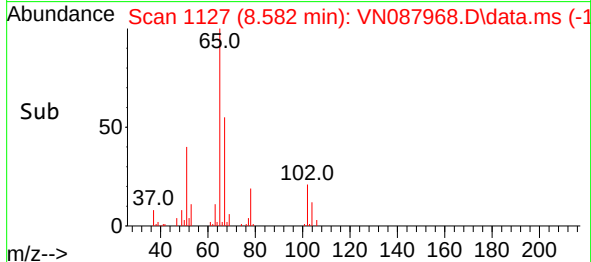
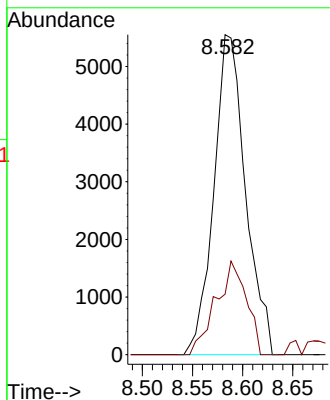
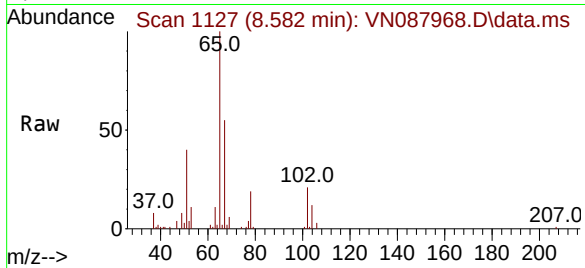




#40
Benzene
Concen: 1.032 ug/l
RT: 8.582 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN087968.D
Acq: 26 Sep 2025 15:49

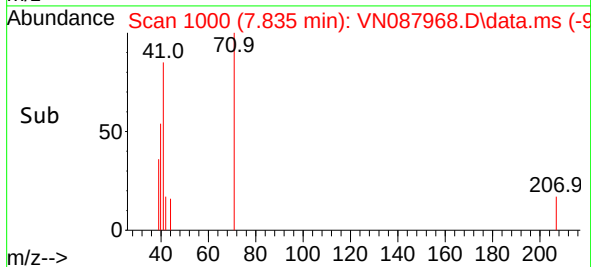
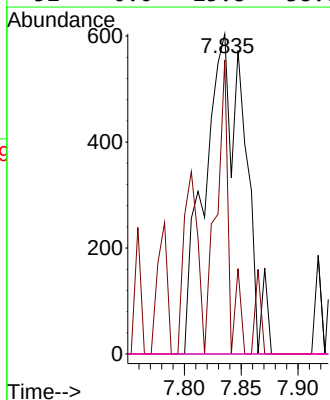
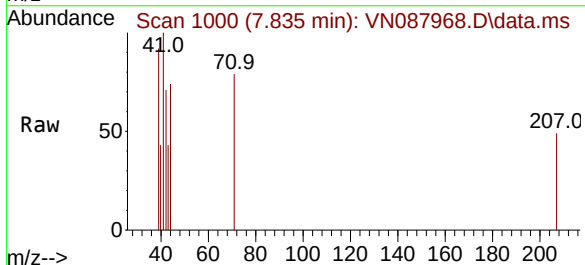
Instrument :
MSVOA_N
ClientSampleId :
WC-A3-02-G

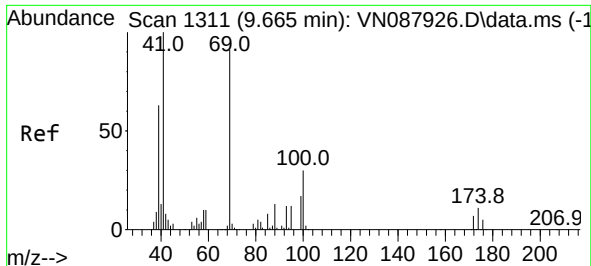
Tgt Ion: 78 Resp: 12191
Ion Ratio Lower Upper
78 100
77 18.9 19.0 28.6#



#41
Methacrylonitrile
Concen: 0.611 ug/l
RT: 7.835 min Scan# 1000
Delta R.T. 0.071 min
Lab File: VN087968.D
Acq: 26 Sep 2025 15:49

Tgt Ion: 41 Resp: 1479
Ion Ratio Lower Upper
41 100
39 29.3 43.5 65.3#
67 0.0 57.6 86.4#
52 0.0 25.8 38.6#





#48

Methyl methacrylate

Concen: 0.376 ug/l

RT: 9.653 min Scan# 11

Delta R.T. -0.012 min

Lab File: VN087968.D

Acq: 26 Sep 2025 15:49

Instrument :

MSVOA_N

ClientSampleId :

WC-A3-02-G

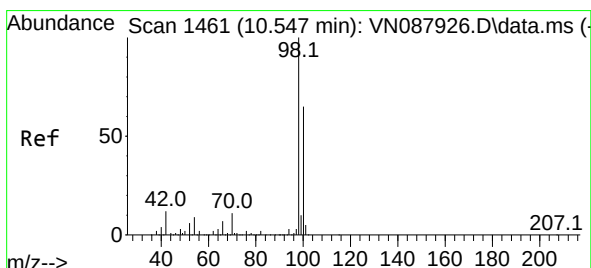
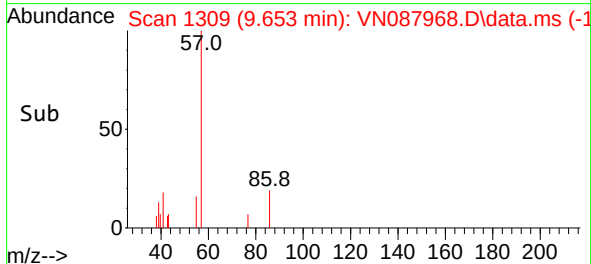
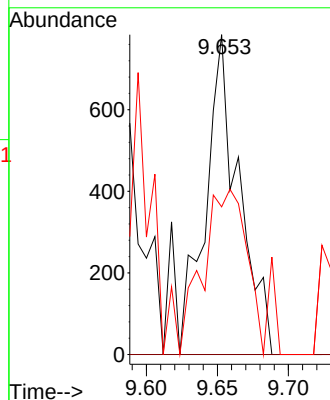
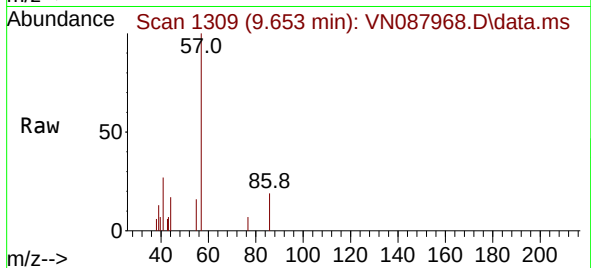
Tgt Ion: 41 Resp: 1285

Ion Ratio Lower Upper

41 100

69 0.0 70.9 106.3#

39 67.9 52.9 79.3



#50

Toluene-d8

Concen: 47.972 ug/l

RT: 10.547 min Scan# 1461

Delta R.T. -0.000 min

Lab File: VN087968.D

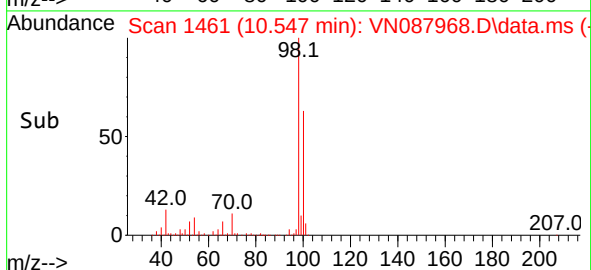
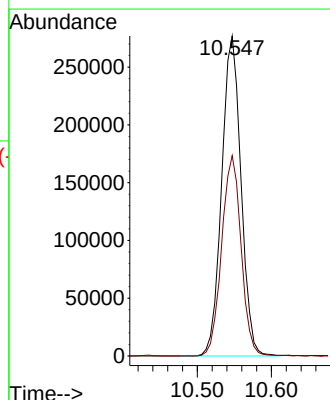
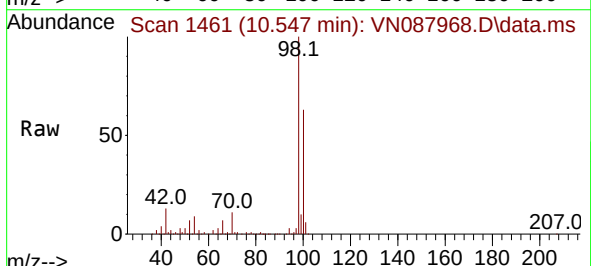
Acq: 26 Sep 2025 15:49

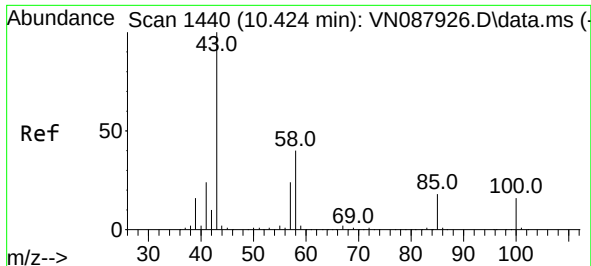
Tgt Ion: 98 Resp: 500395

Ion Ratio Lower Upper

98 100

100 63.0 51.7 77.5

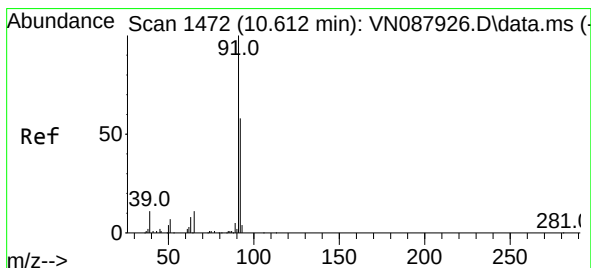
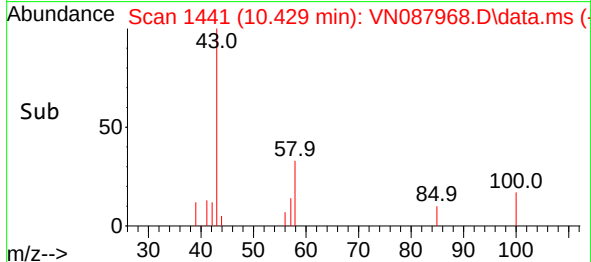
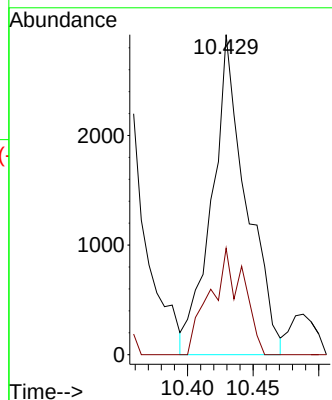
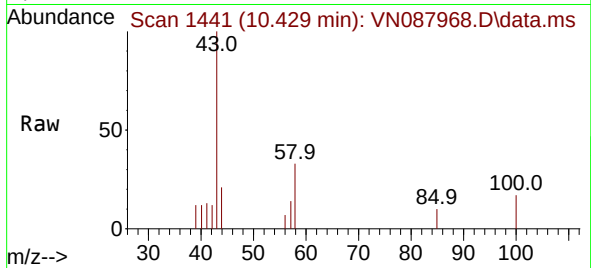




#51
4-Methyl-2-Pentanone
Concen: 1.160 ug/l
RT: 10.429 min Scan# 1441
Delta R.T. 0.006 min
Lab File: VN087968.D
Acq: 26 Sep 2025 15:49

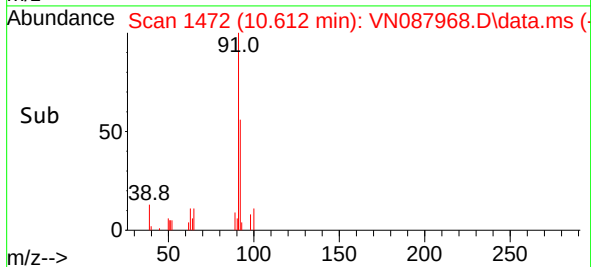
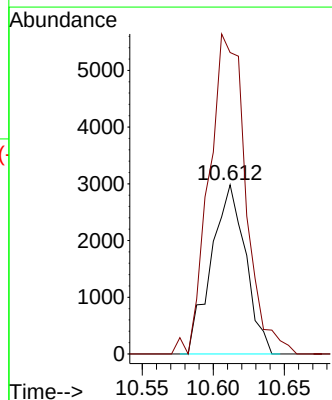
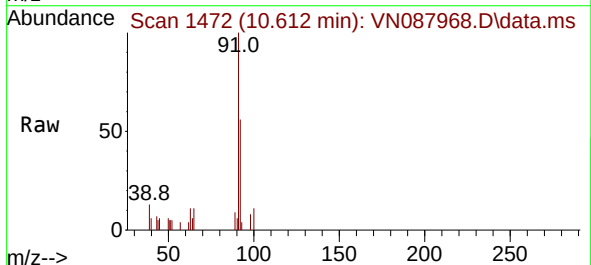
Instrument :
MSVOA_N
ClientSampleId :
WC-A3-02-G

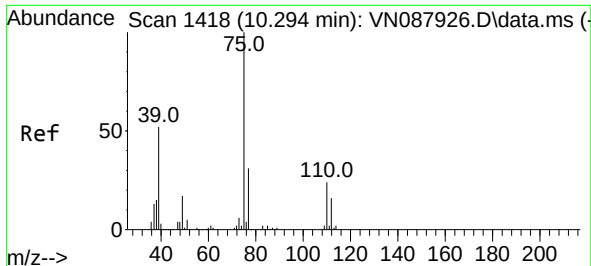
Tgt Ion: 43 Resp: 5338
Ion Ratio Lower Upper
43 100
58 32.0 31.0 46.6



#52
Toluene
Concen: 0.674 ug/l
RT: 10.612 min Scan# 1472
Delta R.T. -0.000 min
Lab File: VN087968.D
Acq: 26 Sep 2025 15:49

Tgt Ion: 92 Resp: 4996
Ion Ratio Lower Upper
92 100
91 203.4 138.2 207.2

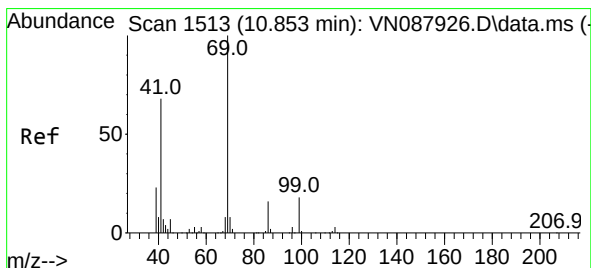
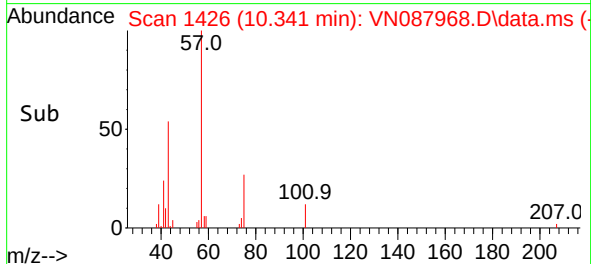
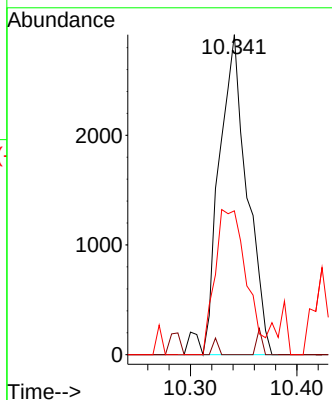
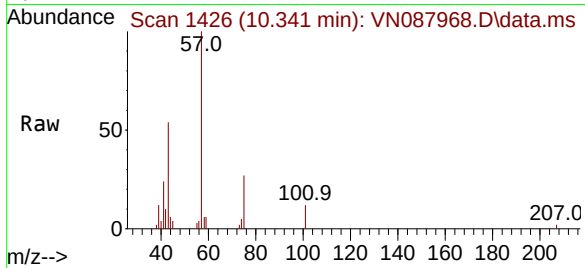




#54
cis-1,3-Dichloropropene
Concen: 1.105 ug/l
RT: 10.341 min Scan# 1418
Delta R.T. 0.047 min
Lab File: VN087968.D
Acq: 26 Sep 2025 15:49

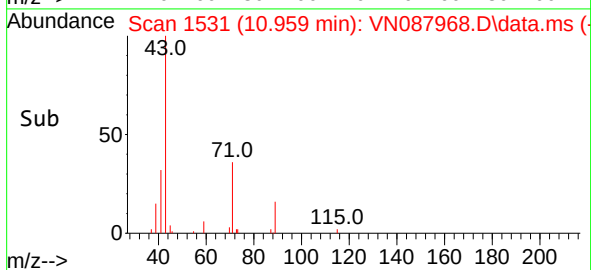
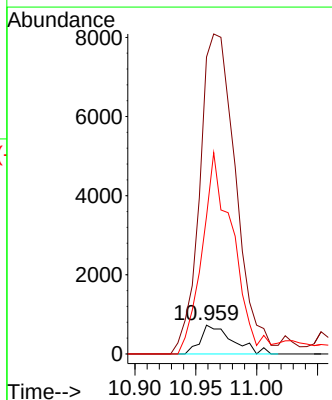
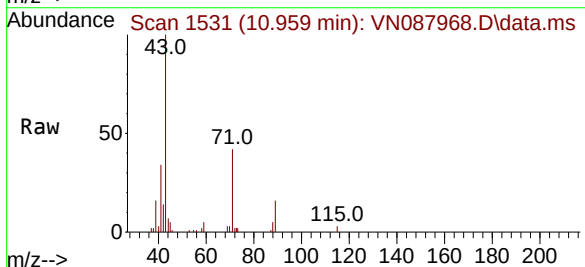
Instrument :
MSVOA_N
ClientSampleId :
WC-A3-02-G

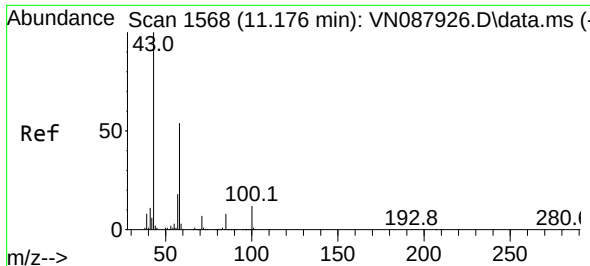
Tgt Ion: 75 Resp: 5385
Ion Ratio Lower Upper
75 100
77 0.0 24.7 37.1#
39 45.0 41.4 62.0



#56
Ethyl methacrylate
Concen: 0.303 ug/l
RT: 10.959 min Scan# 1531
Delta R.T. 0.106 min
Lab File: VN087968.D
Acq: 26 Sep 2025 15:49

Tgt Ion: 69 Resp: 1318
Ion Ratio Lower Upper
69 100
41 1263.5 53.8 80.6#
39 691.0 34.7 52.1#

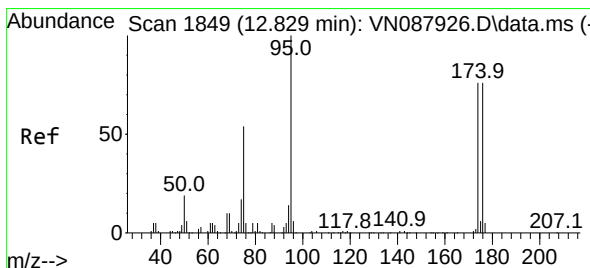
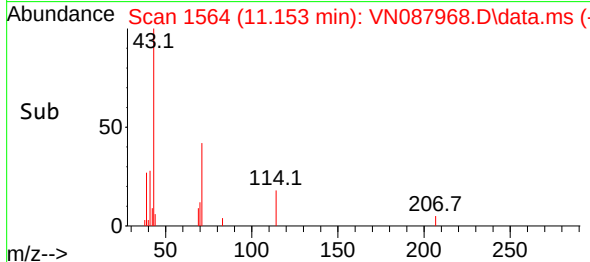
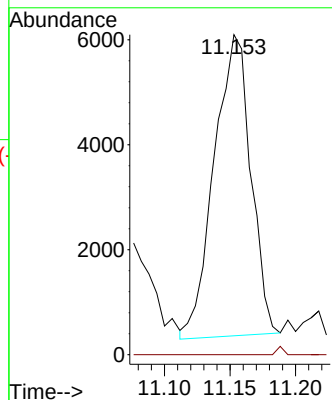
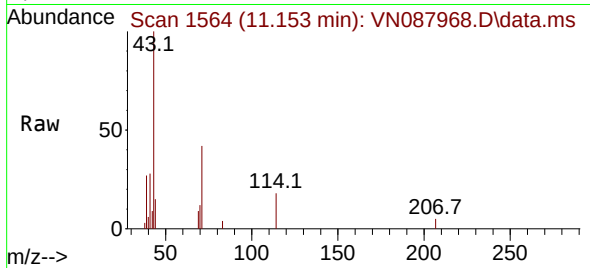




#59
2-Hexanone
Concen: 3.664 ug/l
RT: 11.153 min Scan# 11146
Delta R.T. -0.024 min
Lab File: VN087968.D
Acq: 26 Sep 2025 15:49

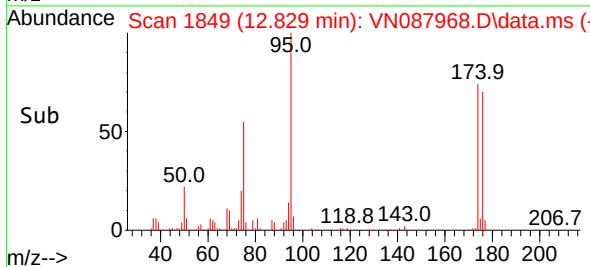
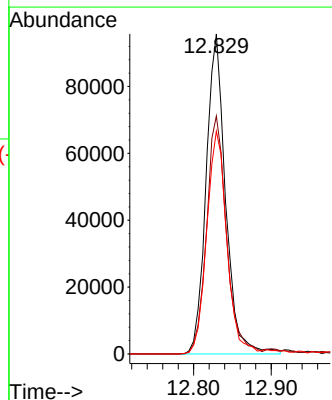
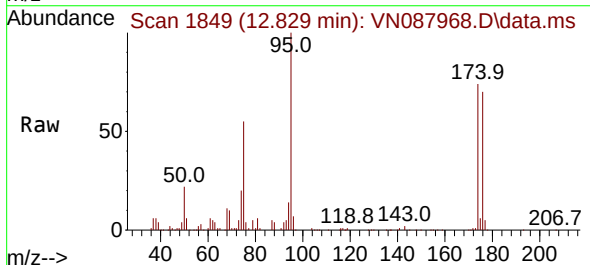
Instrument :
MSVOA_N
ClientSampleId :
WC-A3-02-G

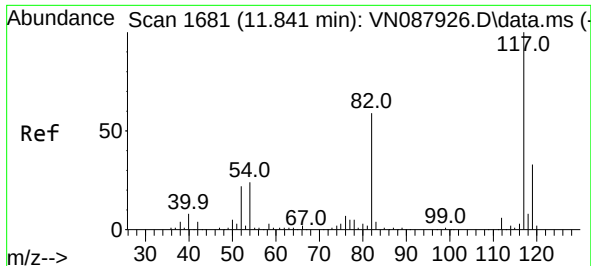
Tgt Ion: 43 Resp: 11146
Ion Ratio Lower Upper
43 100
58 0.0 26.4 79.2#



#62
4-Bromofluorobenzene
Concen: 44.770 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. -0.000 min
Lab File: VN087968.D
Acq: 26 Sep 2025 15:49

Tgt Ion: 95 Resp: 166926
Ion Ratio Lower Upper
95 100
174 76.0 0.0 159.2
176 71.9 0.0 152.6

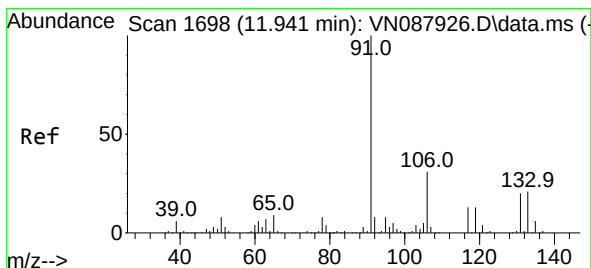
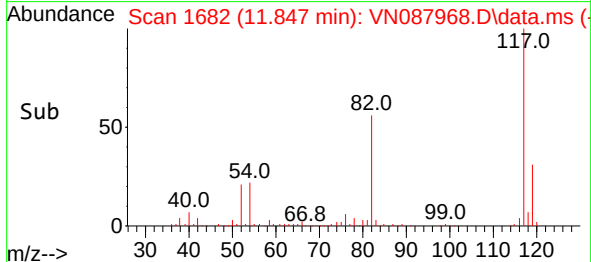
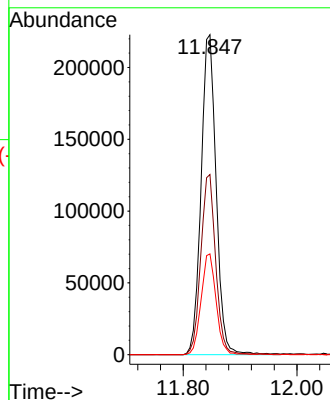
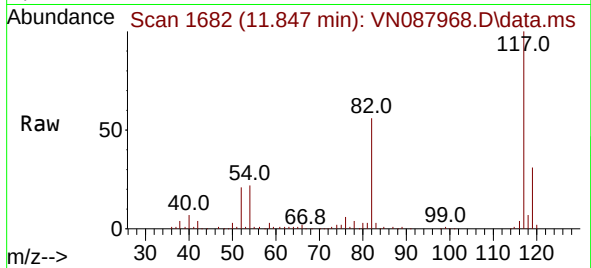




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.847 min Scan# 1681
Delta R.T. 0.006 min
Lab File: VN087968.D
Acq: 26 Sep 2025 15:49

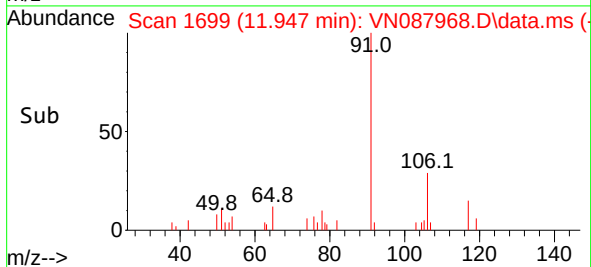
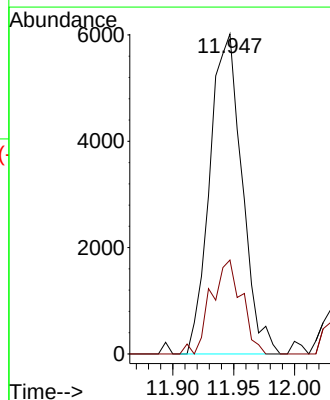
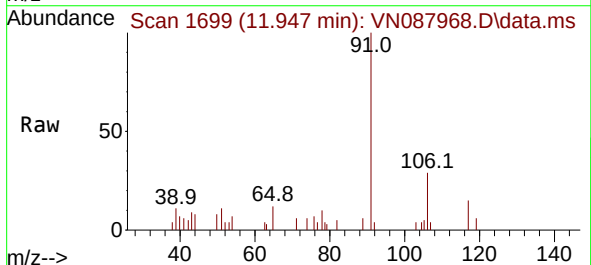
Instrument :
MSVOA_N
ClientSampleId :
WC-A3-02-G

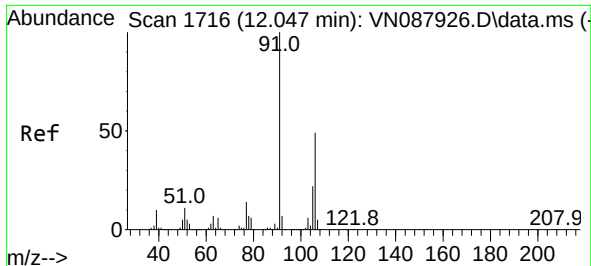
Tgt Ion:117 Resp: 411042
Ion Ratio Lower Upper
117 100
82 56.3 47.0 70.4
119 31.5 26.1 39.1



#67
Ethyl Benzene
Concen: 0.761 ug/l
RT: 11.947 min Scan# 1699
Delta R.T. 0.006 min
Lab File: VN087968.D
Acq: 26 Sep 2025 15:49

Tgt Ion: 91 Resp: 11101
Ion Ratio Lower Upper
91 100
106 29.3 25.2 37.8

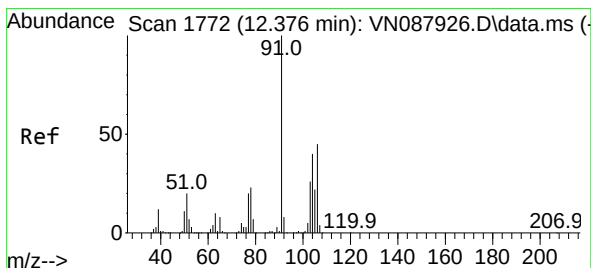
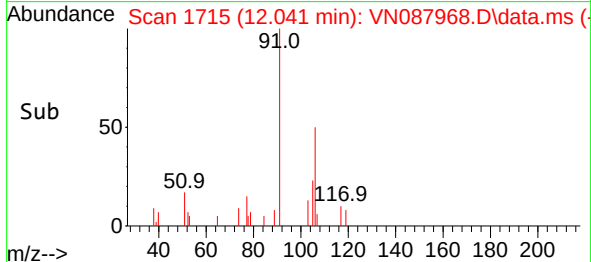
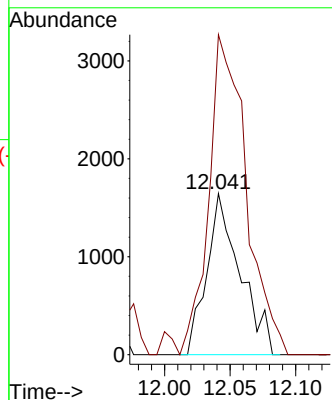
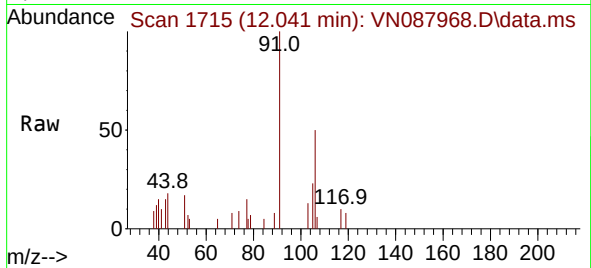




#68
m/p-Xylenes
Concen: 0.521 ug/l
RT: 12.041 min Scan# 1715
Delta R.T. -0.006 min
Lab File: VN087968.D
Acq: 26 Sep 2025 15:49

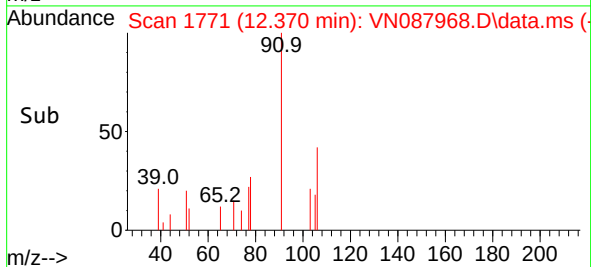
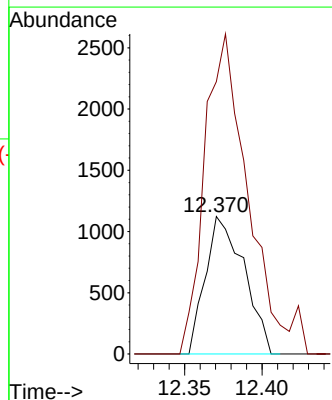
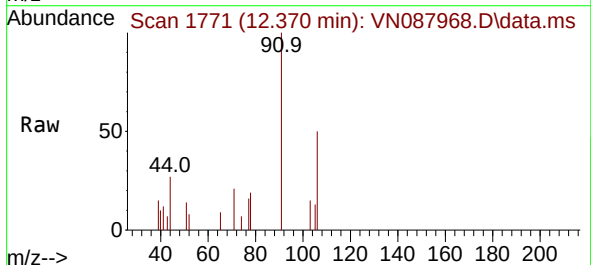
Instrument :
MSVOA_N
ClientSampleId :
WC-A3-02-G

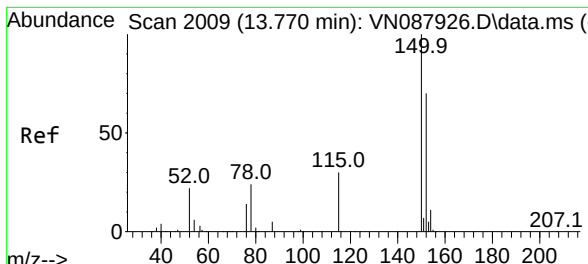
Tgt Ion:106 Resp: 2909
Ion Ratio Lower Upper
106 100
91 222.4 162.9 244.3



#69
o-Xylene
Concen: 0.363 ug/l
RT: 12.370 min Scan# 1771
Delta R.T. -0.006 min
Lab File: VN087968.D
Acq: 26 Sep 2025 15:49

Tgt Ion:106 Resp: 1945
Ion Ratio Lower Upper
106 100
91 263.8 108.2 324.6

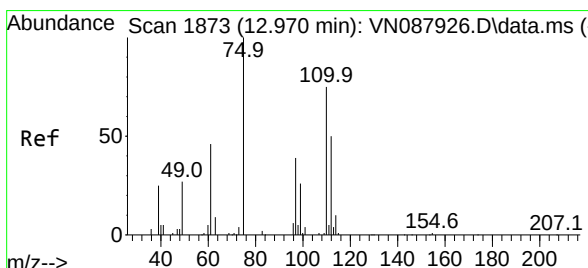
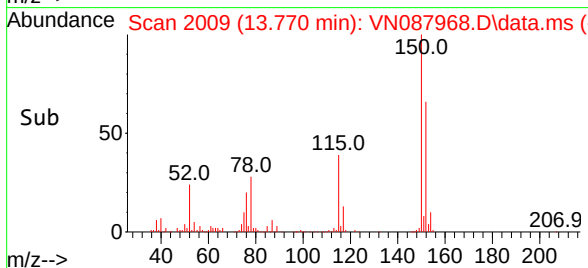
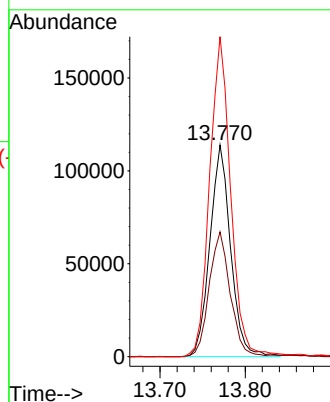
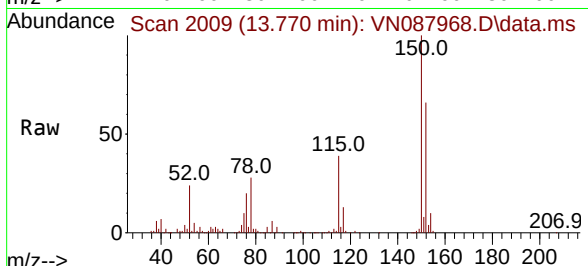




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.770 min Scan# 2009
 Delta R.T. -0.000 min
 Lab File: VN087968.D
 Acq: 26 Sep 2025 15:49

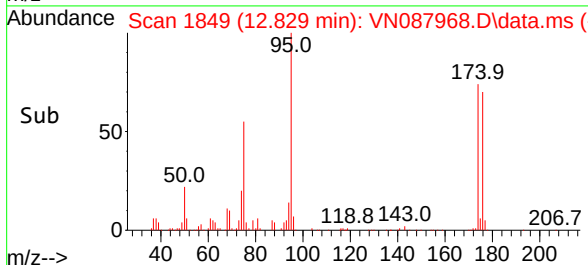
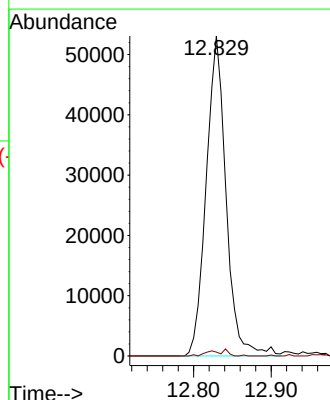
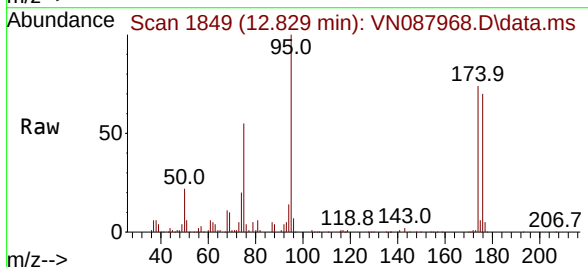
Instrument :
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 ClientSampleId :
 WC-A3-02-G

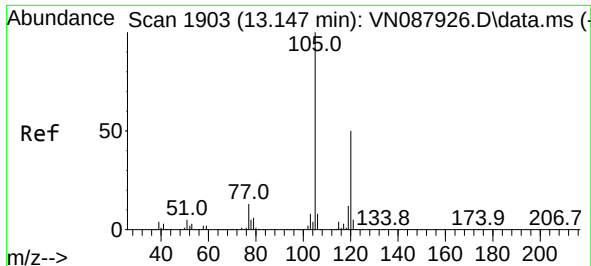
Tgt Ion:152 Resp: 193008
 Ion Ratio Lower Upper
 152 100
 115 60.8 29.9 89.7
 150 152.9 0.0 335.0



#76
 1,2,3-Trichloropropane
 Concen: 24.901 ug/l
 RT: 12.829 min Scan# 1849
 Delta R.T. -0.141 min
 Lab File: VN087968.D
 Acq: 26 Sep 2025 15:49

Tgt Ion: 75 Resp: 94738
 Ion Ratio Lower Upper
 75 100
 77 1.1 89.5 268.5#

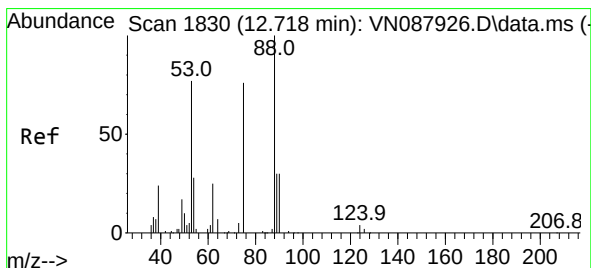
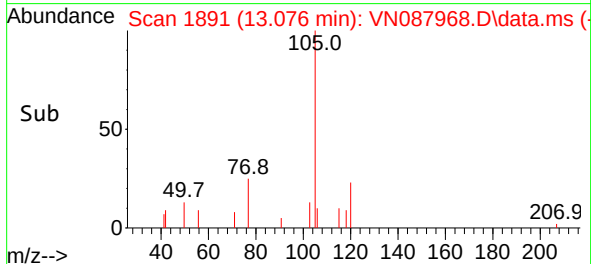
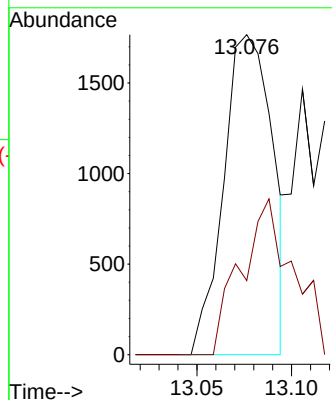
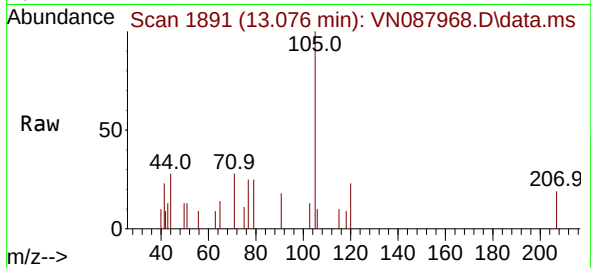




#80
 1,3,5-Trimethylbenzene
 Concen: 0.307 ug/l
 RT: 13.076 min Scan# 1891
 Delta R.T. -0.071 min
 Lab File: VN087968.D
 Acq: 26 Sep 2025 15:49

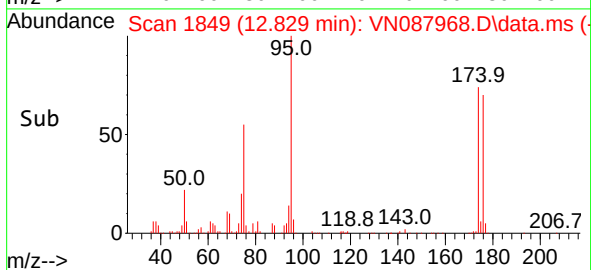
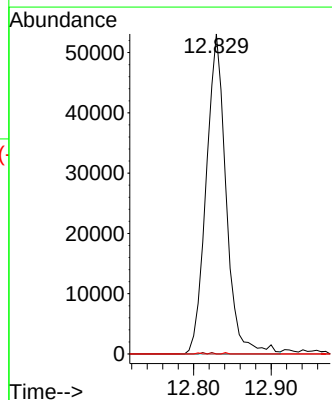
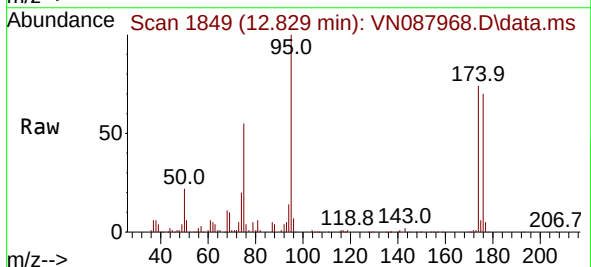
Instrument :
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 ClientSampleId :
 WC-A3-02-G

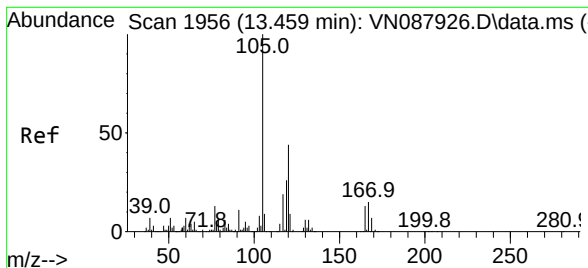
Tgt Ion:105 Resp: 3174
 Ion Ratio Lower Upper
 105 100
 120 51.4 24.7 74.1



#81
 trans-1,4-Dichloro-2-butene
 Concen: 69.146 ug/l
 RT: 12.829 min Scan# 1849
 Delta R.T. 0.112 min
 Lab File: VN087968.D
 Acq: 26 Sep 2025 15:49

Tgt Ion: 75 Resp: 94738
 Ion Ratio Lower Upper
 75 100
 53 0.2 82.0 123.0#
 89 0.1 36.1 54.1#





#84

1,2,4-Trimethylbenzene

Concen: 0.445 ug/l

RT: 13.470 min Scan# 1958

Delta R.T. 0.012 min

Lab File: VN087968.D

Acq: 26 Sep 2025 15:49

Instrument :

MSVOA_N

ClientSampleId :

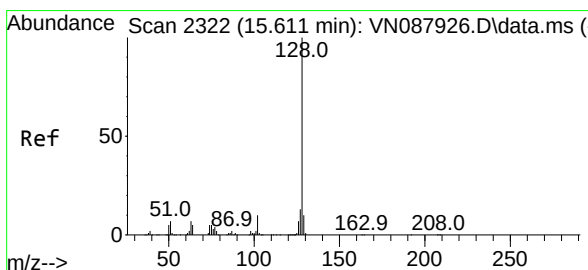
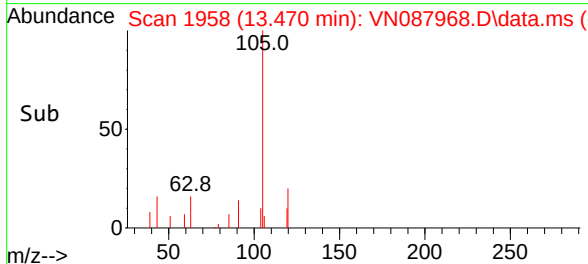
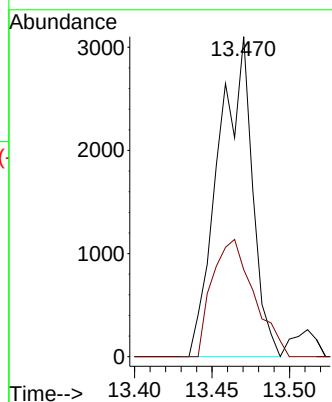
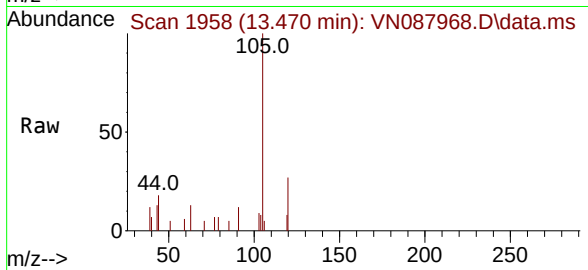
WC-A3-02-G

Tgt Ion:105 Resp: 4721

Ion Ratio Lower Upper

105 100

120 45.0 22.4 67.3



#95

Naphthalene

Concen: 106.389 ug/l

RT: 15.611 min Scan# 2322

Delta R.T. -0.000 min

Lab File: VN087968.D

Acq: 26 Sep 2025 15:49

Tgt Ion:128 Resp: 1207154

Ion Ratio Lower Upper

128 100

127 13.6 10.2 15.4

129 10.9 8.6 13.0

