

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061225\
 Data File : VN086968.D
 Acq On : 12 Jun 2025 11:33
 Operator : JC\MD
 Sample : VN0612MBL01
 Misc : 5.00g/10mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0612MBL01

Quant Time: Jun 13 01:24:09 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 02:12:50 2025
 Response via : Initial Calibration

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

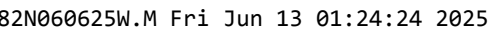
Internal Standards						
1) Pentafluorobenzene	8.230	168	199089	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	395205	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	351464	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	167296	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	141926	53.244	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 106.480%	
35) Dibromofluoromethane	8.171	113	120022	51.246	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 102.500%	
50) Toluene-d8	10.571	98	482178	52.006	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 104.020%	
62) 4-Bromofluorobenzene	12.847	95	171059	49.659	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 99.320%	

Target Compounds				Qvalue		
16) Acetone	4.477	43	1061	0.751	ug/l #	40
17) Carbon Disulfide	4.742	76	2292	0.374	ug/l #	75
20) Methylene Chloride	5.300	84	1498	0.566	ug/l	87
31) Cyclohexane	8.230	56	3819	0.883	ug/l #	1
36) 1,1-Dichloropropene	8.230	75	15255	4.371	ug/l #	47
38) Carbon Tetrachloride	8.230	117	19941	5.820	ug/l #	16
44) Trichloroethene	9.359	130	588	0.217	ug/l	91
65) Chlorobenzene	11.894	112	1746	0.225	ug/l	95
67) Ethyl Benzene	11.965	91	2719	0.204	ug/l	99
68) m/p-Xylenes	12.070	106	1866	0.365	ug/l	90
69) o-Xylene	12.400	106	1028	0.210	ug/l	90
70) Styrene	12.412	104	1904	0.227	ug/l #	83
71) Bromoform	12.847	173	836	0.453	ug/l #	1
76) 1,2,3-Trichloropropane	12.847	75	80410	20.220	ug/l #	1
79) 2-Chlorotoluene	13.129	91	1874	0.211	ug/l	88
81) trans-1,4-Dichloro-2-b...	12.847	75	80410	46.546	ug/l #	16
82) 4-Chlorotoluene	13.223	91	2228	0.248	ug/l	83
84) 1,2,4-Trimethylbenzene	13.488	105	2615	0.259	ug/l	96
87) 1,3-Dichlorobenzene	13.723	146	1472	0.268	ug/l	81
88) 1,4-Dichlorobenzene	13.723	146	1472	0.263	ug/l	82
91) 1,2-Dichlorobenzene	14.117	146	1350	0.256	ug/l	86
93) 1,2,4-Trichlorobenzene	15.388	180	829	0.246	ug/l #	92
94) Hexachlorobutadiene	15.506	225	623	0.496	ug/l	79
95) Naphthalene	15.641	128	6711	0.534	ug/l	99
96) 1,2,3-Trichlorobenzene	15.841	180	976	0.291	ug/l #	74

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

Quant Time: Jun 13 01:24:09 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

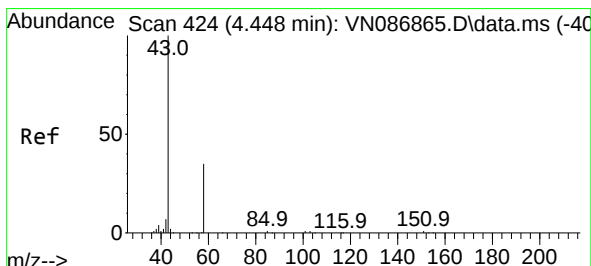
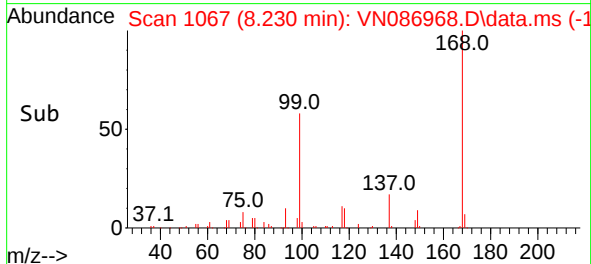
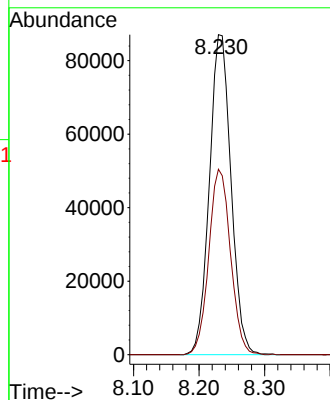
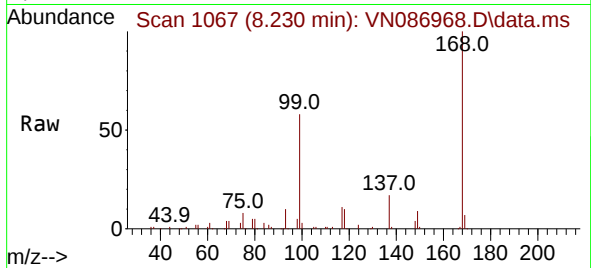




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN086968.D
Acq: 12 Jun 2025 11:33

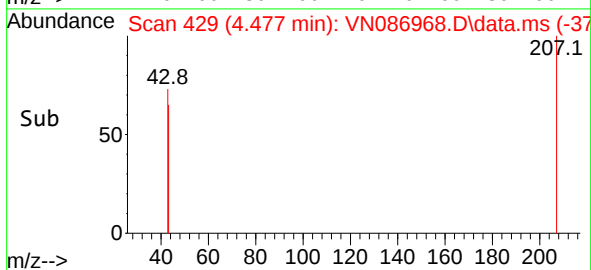
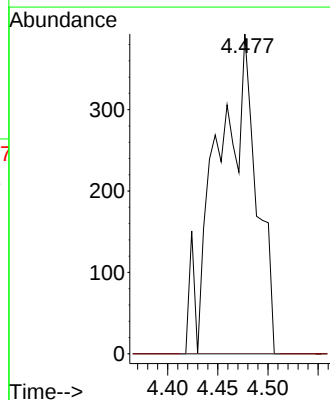
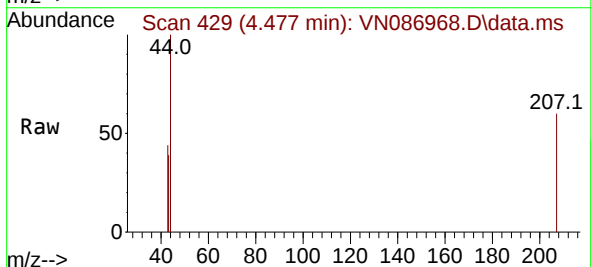
Instrument :
MSVOA_N
ClientSampleId :
VN0612MBL01

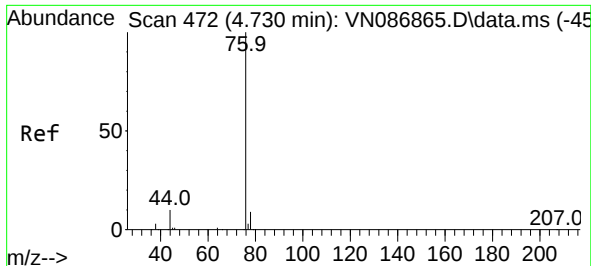
Tgt Ion:168 Resp: 199089
Ion Ratio Lower Upper
168 100
99 58.0 49.1 73.7



#16
Acetone
Concen: 0.751 ug/l
RT: 4.477 min Scan# 429
Delta R.T. 0.029 min
Lab File: VN086968.D
Acq: 12 Jun 2025 11:33

Tgt Ion: 43 Resp: 1061
Ion Ratio Lower Upper
43 100
58 0.0 28.0 42.0#

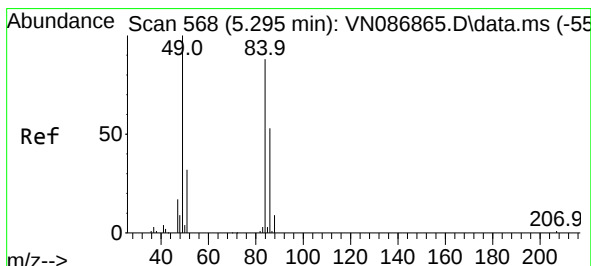
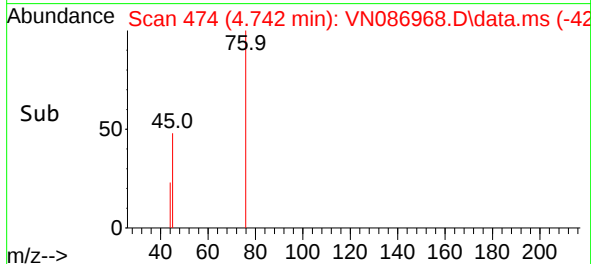
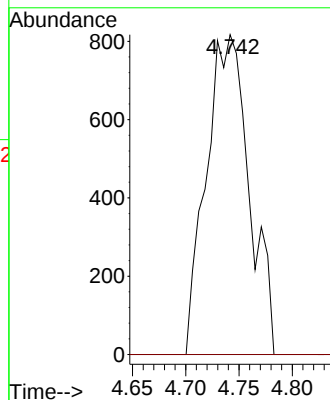
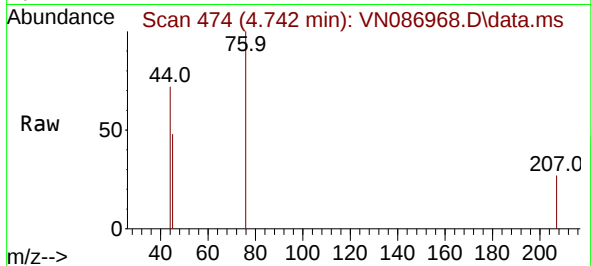




#17
Carbon Disulfide
Concen: 0.374 ug/l
RT: 4.742 min Scan# 41
Delta R.T. 0.012 min
Lab File: VN086968.D
Acq: 12 Jun 2025 11:33

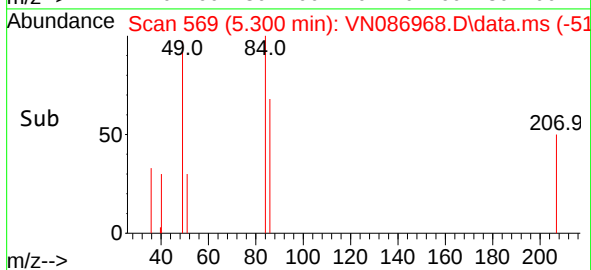
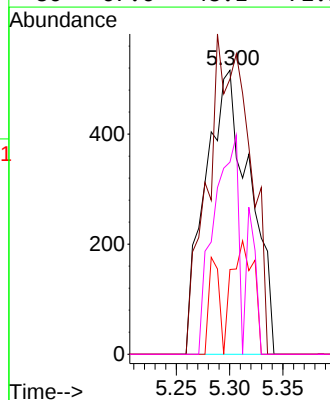
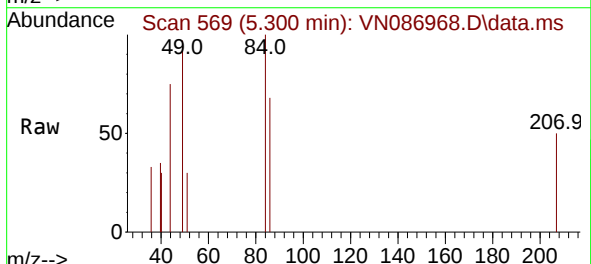
Instrument :
MSVOA_N
ClientSampleId :
VN0612MBL01

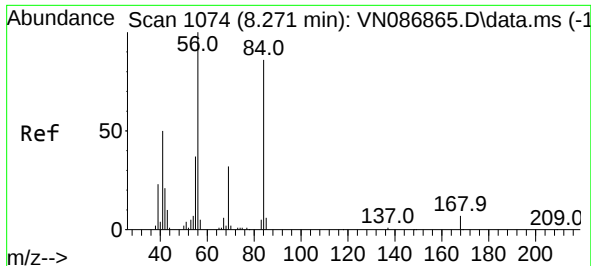
Tgt Ion: 76 Resp: 2292
Ion Ratio Lower Upper
76 100
78 0.0 7.3 10.9#



#20
Methylene Chloride
Concen: 0.566 ug/l
RT: 5.300 min Scan# 569
Delta R.T. 0.006 min
Lab File: VN086968.D
Acq: 12 Jun 2025 11:33

Tgt Ion: 84 Resp: 1498
Ion Ratio Lower Upper
84 100
49 96.9 90.5 135.7
51 29.8 28.5 42.7
86 67.6 48.1 72.1

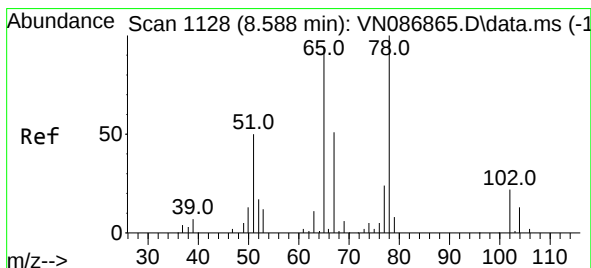
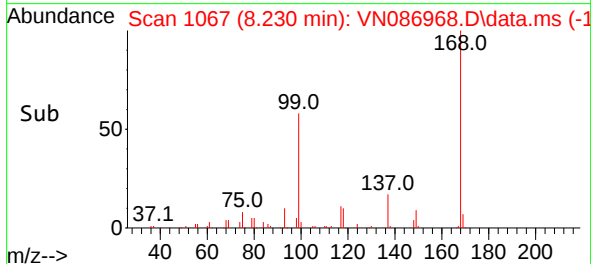
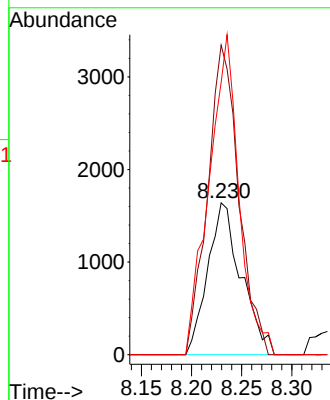
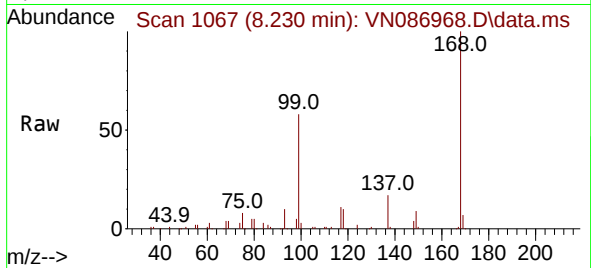




#31
Cyclohexane
Concen: 0.883 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.041 min
Lab File: VN086968.D
Acq: 12 Jun 2025 11:33

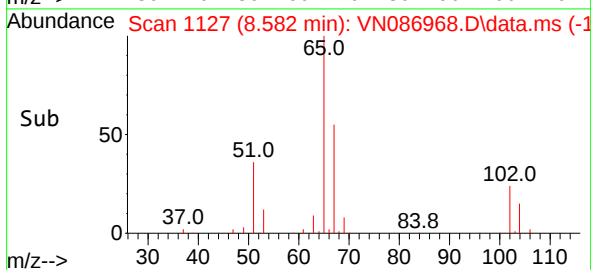
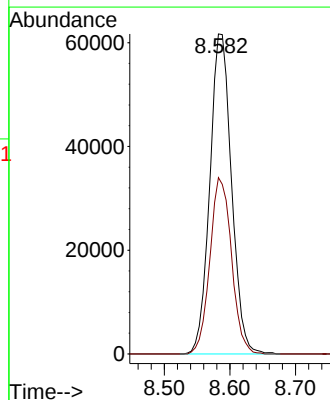
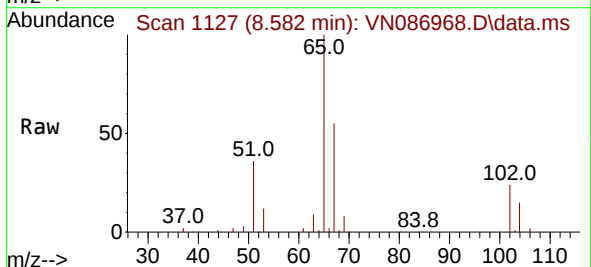
Instrument :
MSVOA_N
ClientSampleId :
VN0612MBL01

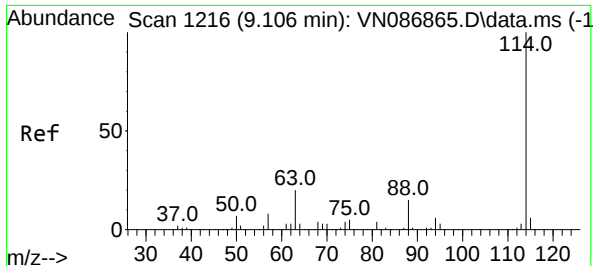
Tgt Ion: 56 Resp: 3819
Ion Ratio Lower Upper
56 100
69 204.0 25.4 38.0#
84 179.4 68.8 103.2#



#33
1,2-Dichloroethane-d4
Concen: 53.244 ug/l
RT: 8.582 min Scan# 1127
Delta R.T. -0.006 min
Lab File: VN086968.D
Acq: 12 Jun 2025 11:33

Tgt Ion: 65 Resp: 141926
Ion Ratio Lower Upper
65 100
67 54.8 0.0 105.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086968.D

Acq: 12 Jun 2025 11:33

Instrument :

MSVOA_N

ClientSampleId :

VN0612MBL01

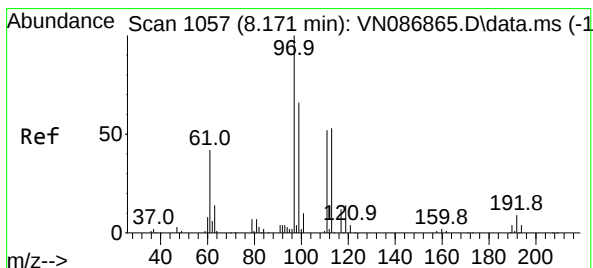
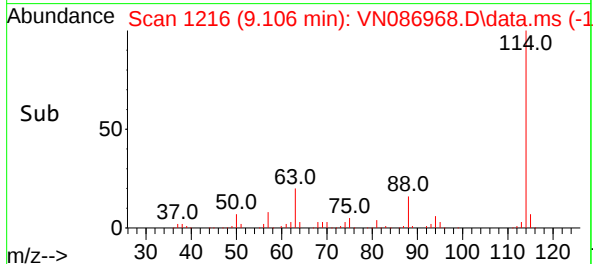
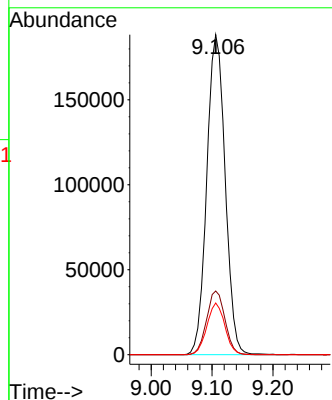
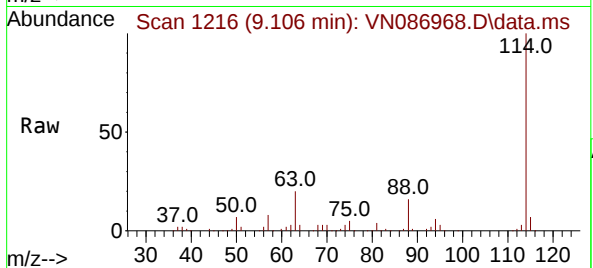
Tgt Ion:114 Resp: 395205

Ion Ratio Lower Upper

114 100

63 19.9 0.0 39.6

88 16.2 0.0 30.2



#35

Dibromofluoromethane

Concen: 51.246 ug/l

RT: 8.171 min Scan# 1057

Delta R.T. -0.000 min

Lab File: VN086968.D

Acq: 12 Jun 2025 11:33

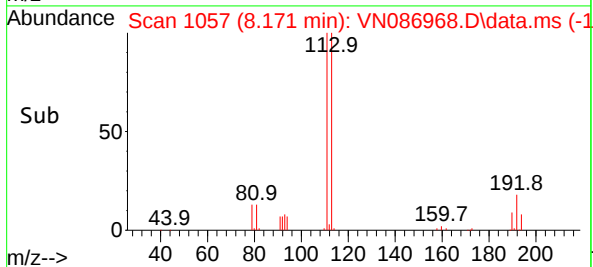
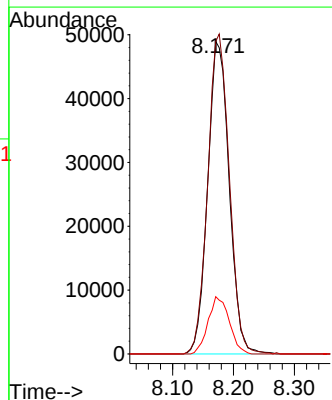
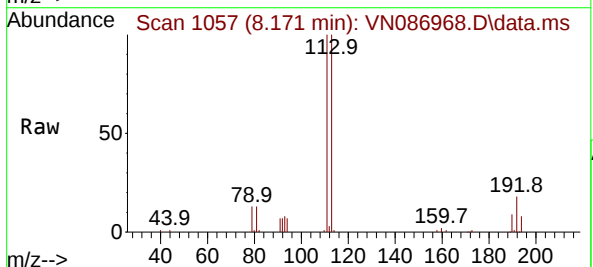
Tgt Ion:113 Resp: 120022

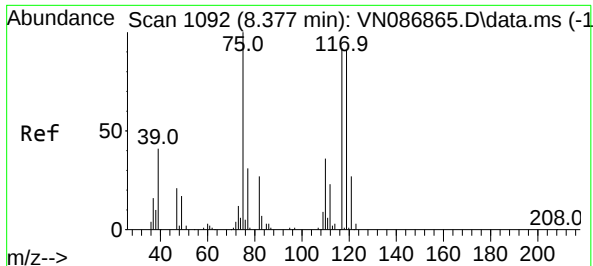
Ion Ratio Lower Upper

113 100

111 102.8 84.2 126.2

192 18.0 14.2 21.4





#36

1,1-Dichloropropene

Concen: 4.371 ug/l

RT: 8.230 min Scan# 1067

Delta R.T. -0.147 min

Lab File: VN086968.D

Acq: 12 Jun 2025 11:33

Instrument :

MSVOA_N

ClientSampleId :

VN0612MBL01

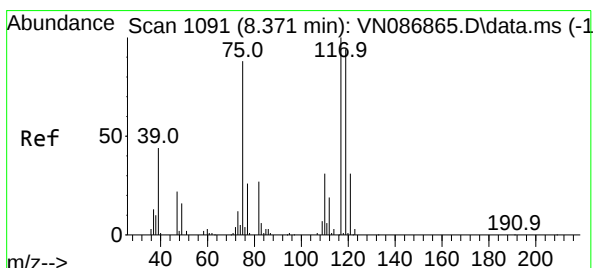
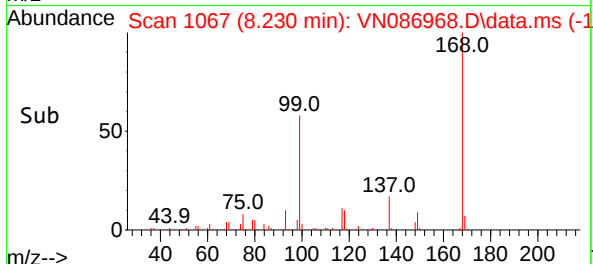
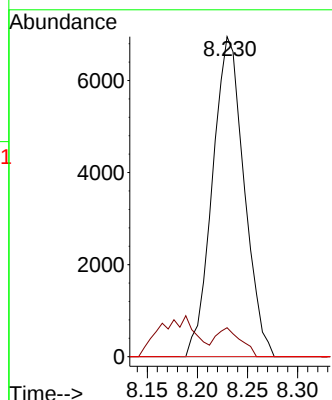
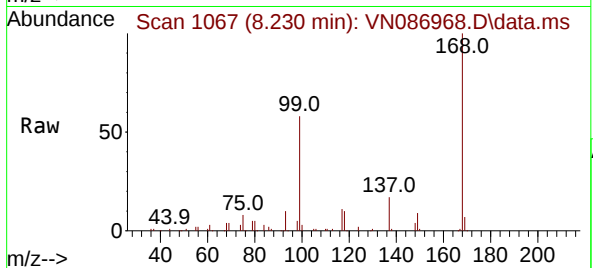
Tgt Ion: 75 Resp: 15255

Ion Ratio Lower Upper

75 100

110 7.0 17.6 52.9#

77 0.0 25.3 37.9#



#38

Carbon Tetrachloride

Concen: 5.820 ug/l

RT: 8.230 min Scan# 1067

Delta R.T. -0.141 min

Lab File: VN086968.D

Acq: 12 Jun 2025 11:33

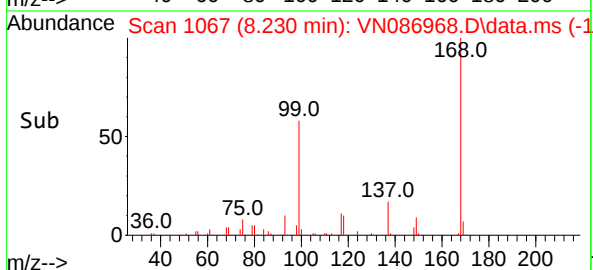
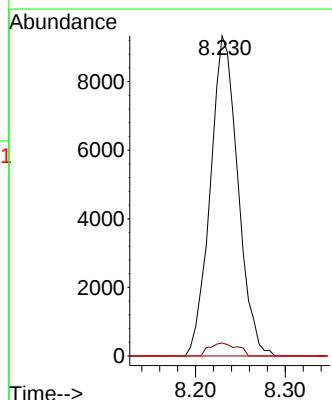
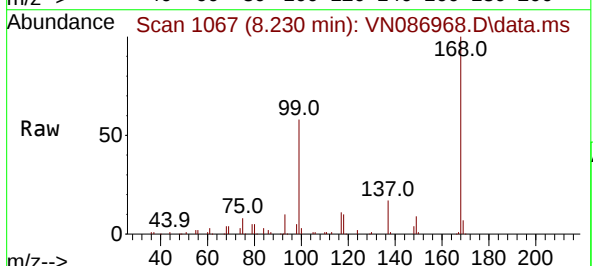
Tgt Ion: 117 Resp: 19941

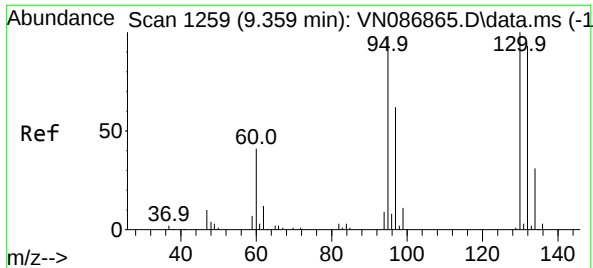
Ion Ratio Lower Upper

117 100

119 4.1 75.0 112.6#

121 0.0 24.9 37.3#

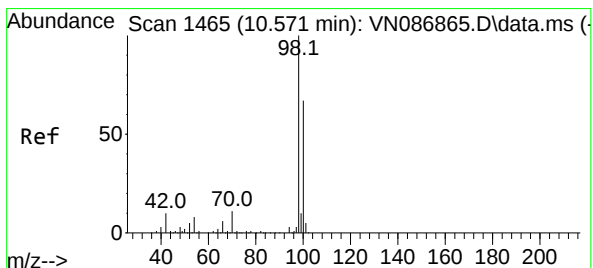
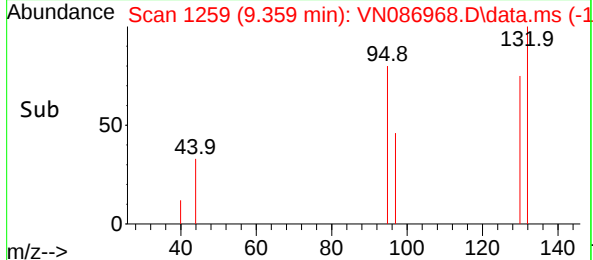
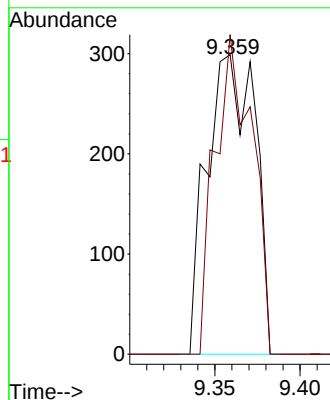
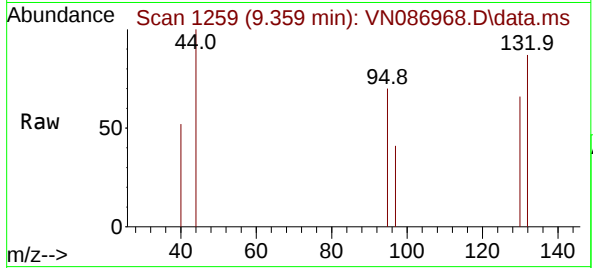




#44
Trichloroethene
Concen: 0.217 ug/l
RT: 9.359 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN086968.D
Acq: 12 Jun 2025 11:33

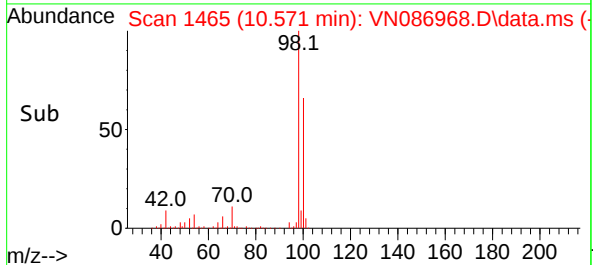
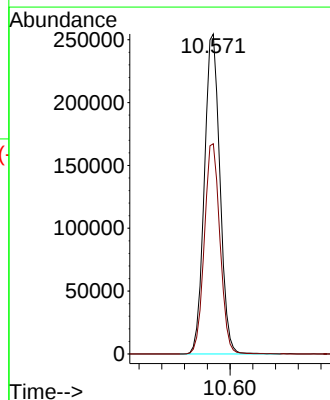
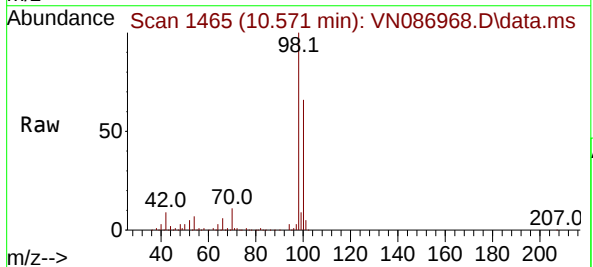
Instrument :
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ClientSampleId :
VN0612MBL01

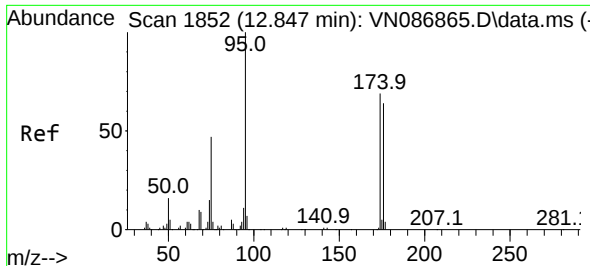
Tgt Ion:130 Resp: 588
Ion Ratio Lower Upper
130 100
95 106.7 0.0 196.2



#50
Toluene-d8
Concen: 52.006 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VN086968.D
Acq: 12 Jun 2025 11:33

Tgt Ion: 98 Resp: 482178
Ion Ratio Lower Upper
98 100
100 66.0 53.4 80.0

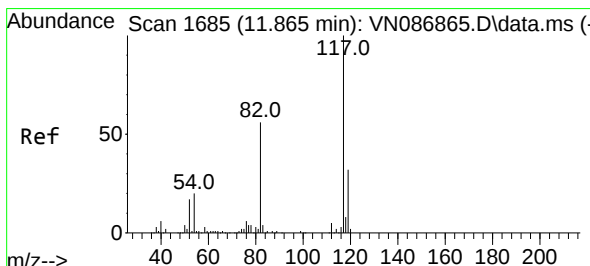
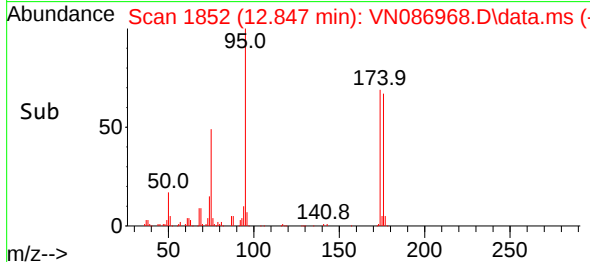
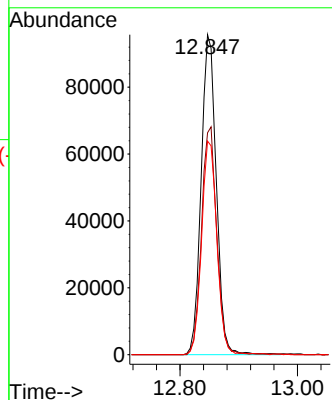
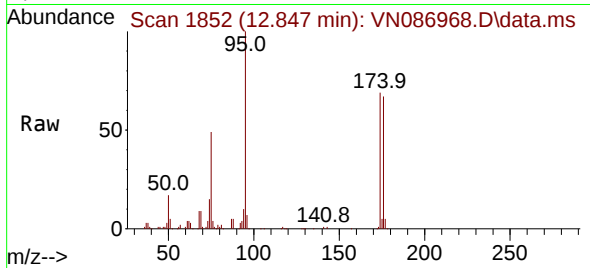




#62
4-Bromofluorobenzene
Concen: 49.659 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086968.D
Acq: 12 Jun 2025 11:33

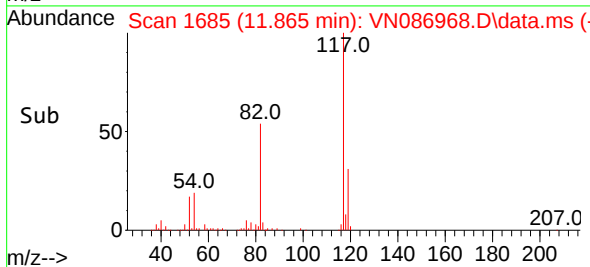
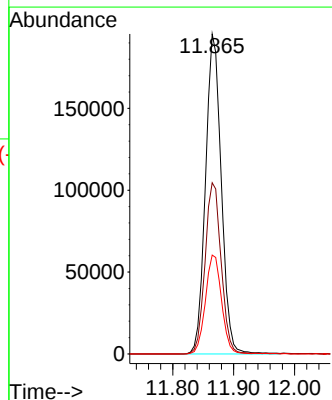
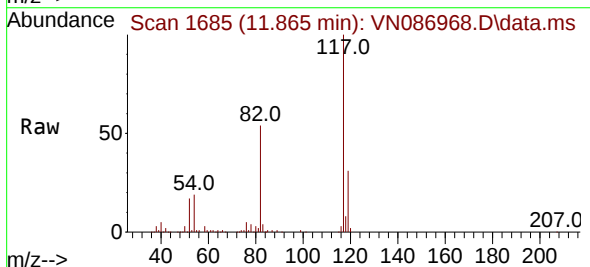
Instrument :
MSVOA_N
ClientSampleId :
VN0612MBL01

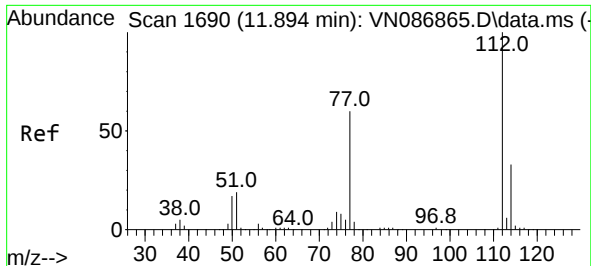
Tgt Ion: 95 Resp: 171059
Ion Ratio Lower Upper
95 100
174 71.6 0.0 141.8
176 67.2 0.0 132.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN086968.D
Acq: 12 Jun 2025 11:33

Tgt Ion: 117 Resp: 351464
Ion Ratio Lower Upper
117 100
82 53.5 44.6 67.0
119 30.9 25.5 38.3

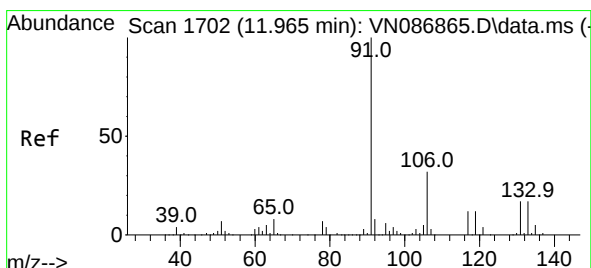
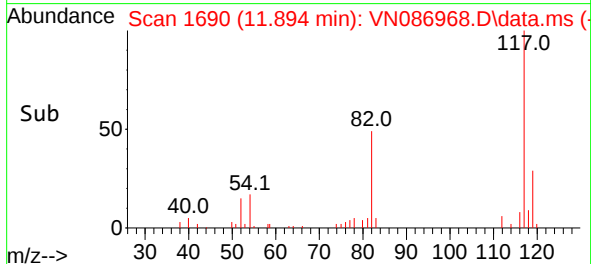
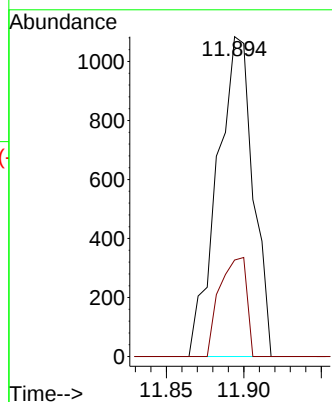
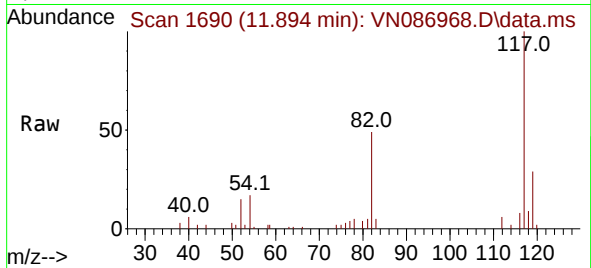




#65
Chlorobenzene
Concen: 0.225 ug/l
RT: 11.894 min Scan# 1690
Delta R.T. -0.000 min
Lab File: VN086968.D
Acq: 12 Jun 2025 11:33

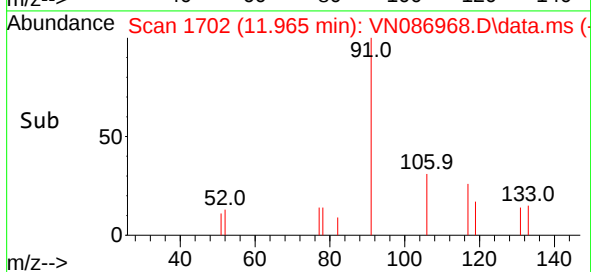
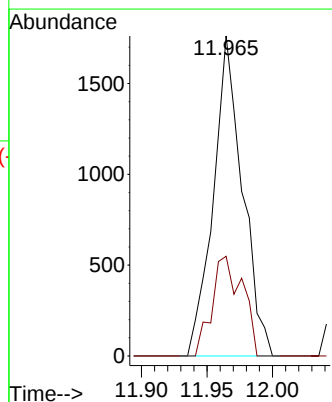
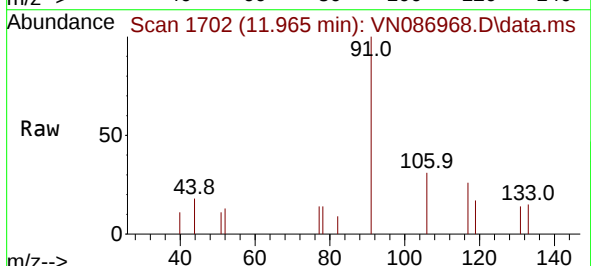
Instrument :
MSVOA_N
ClientSampleId :
VN0612MBL01

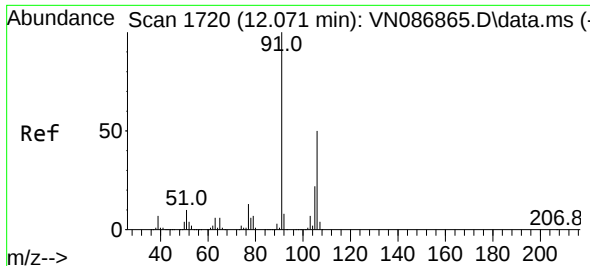
Tgt Ion:112 Resp: 1746
Ion Ratio Lower Upper
112 100
114 30.2 26.2 39.2



#67
Ethyl Benzene
Concen: 0.204 ug/l
RT: 11.965 min Scan# 1702
Delta R.T. -0.000 min
Lab File: VN086968.D
Acq: 12 Jun 2025 11:33

Tgt Ion: 91 Resp: 2719
Ion Ratio Lower Upper
91 100
106 31.2 25.4 38.2

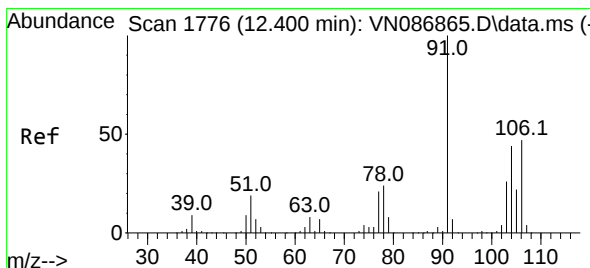
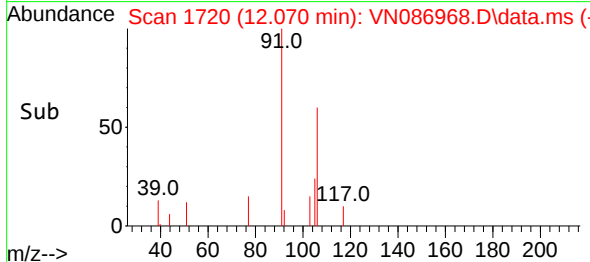
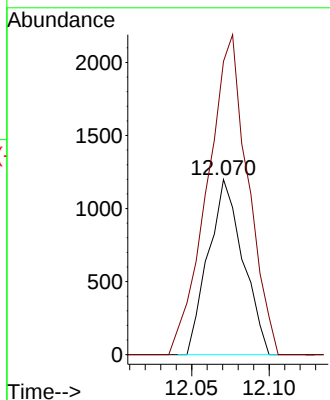
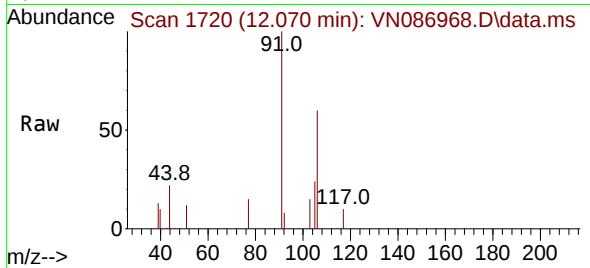




#68
m/p-Xylenes
Concen: 0.365 ug/l
RT: 12.070 min Scan# 1720
Delta R.T. -0.000 min
Lab File: VN086968.D
Acq: 12 Jun 2025 11:33

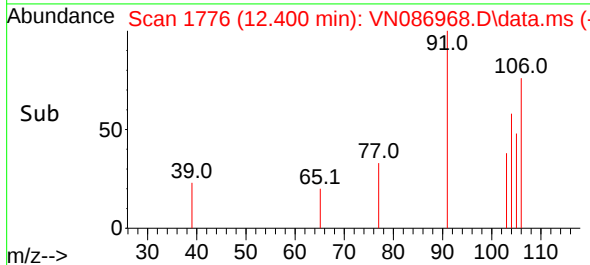
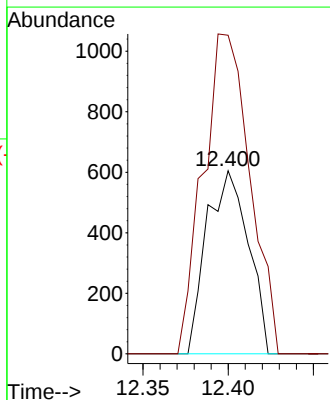
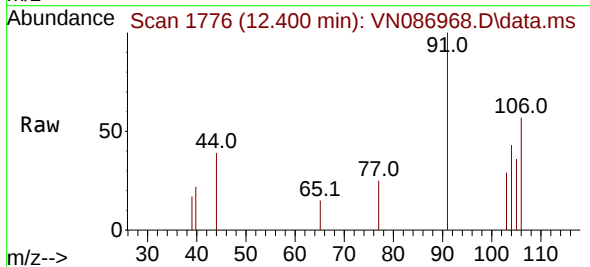
Instrument :
MSVOA_N
ClientSampleId :
VN0612MBL01

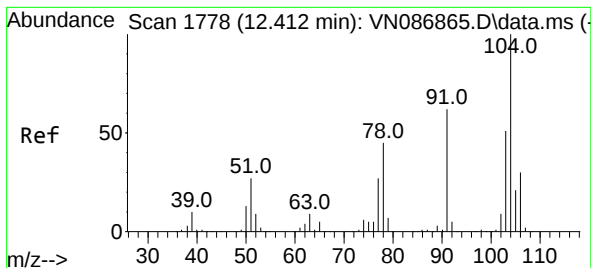
Tgt Ion:106 Resp: 1866
Ion Ratio Lower Upper
106 100
91 213.6 159.4 239.0



#69
o-Xylene
Concen: 0.210 ug/l
RT: 12.400 min Scan# 1776
Delta R.T. -0.000 min
Lab File: VN086968.D
Acq: 12 Jun 2025 11:33

Tgt Ion:106 Resp: 1028
Ion Ratio Lower Upper
106 100
91 196.8 106.1 318.1





#70

Styrene

Concen: 0.227 ug/l

RT: 12.412 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN086968.D

Acq: 12 Jun 2025 11:33

Instrument :

MSVOA_N

ClientSampleId :

VN0612MBL01

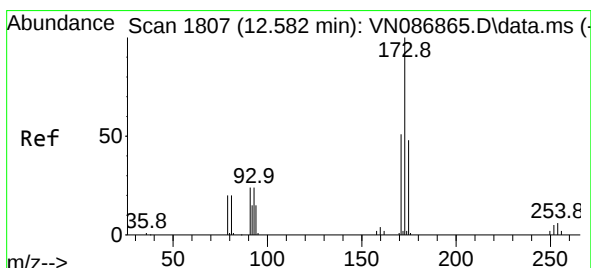
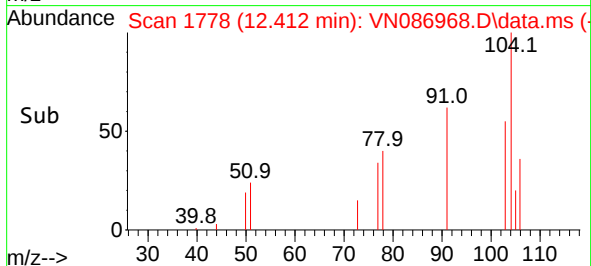
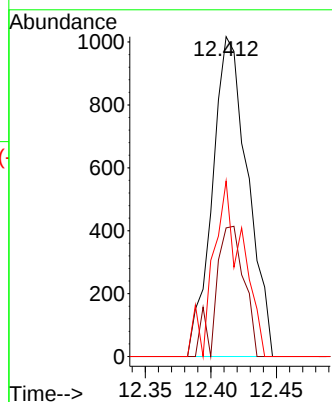
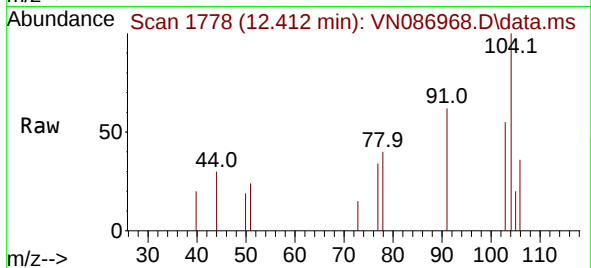
Tgt Ion:104 Resp: 1904

Ion Ratio Lower Upper

104 100

78 32.4 38.5 57.7#

103 46.3 43.1 64.7



#71

Bromoform

Concen: 0.453 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. 0.265 min

Lab File: VN086968.D

Acq: 12 Jun 2025 11:33

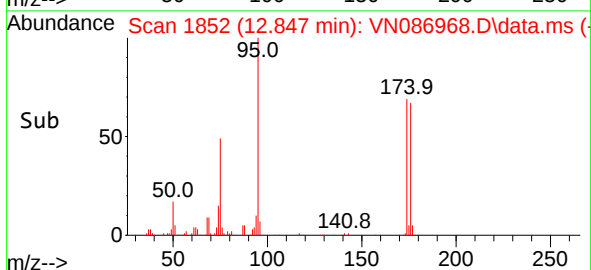
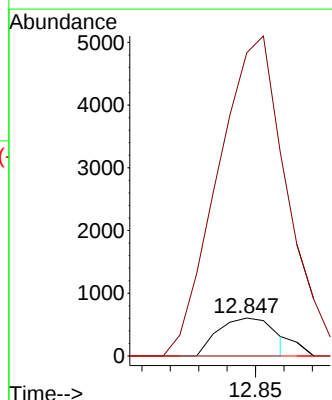
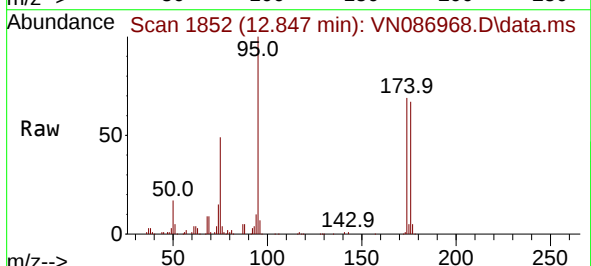
Tgt Ion:173 Resp: 836

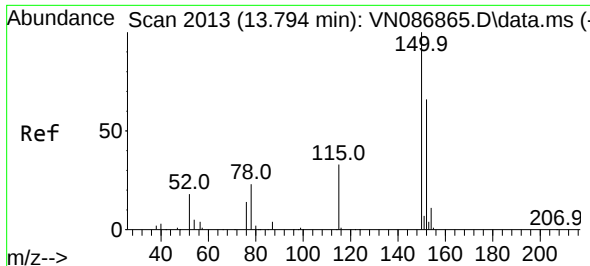
Ion Ratio Lower Upper

173 100

175 899.0 24.1 72.4#

254 0.0 0.0 0.0

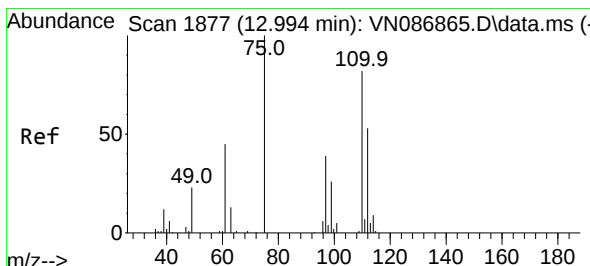
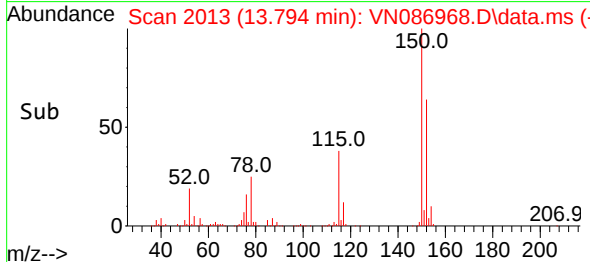
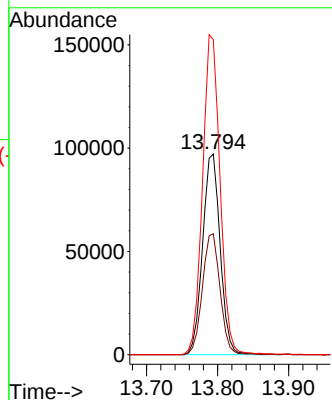
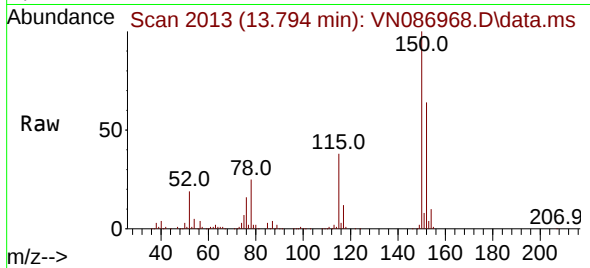




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.794 min Scan# 2013
 Delta R.T. -0.000 min
 Lab File: VN086968.D
 Acq: 12 Jun 2025 11:33

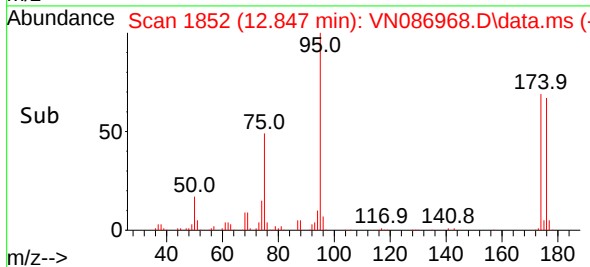
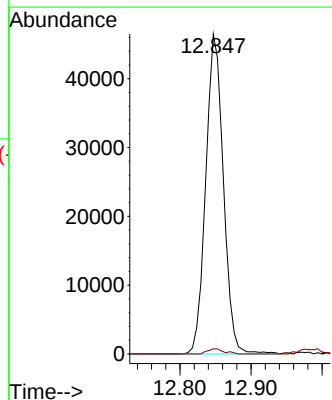
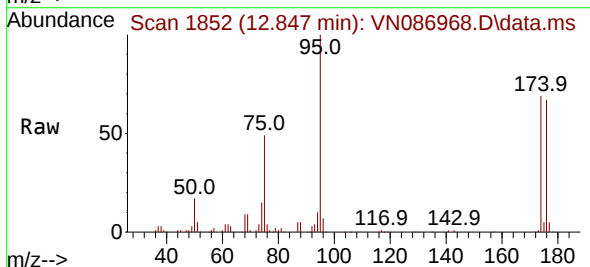
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0612MBL01

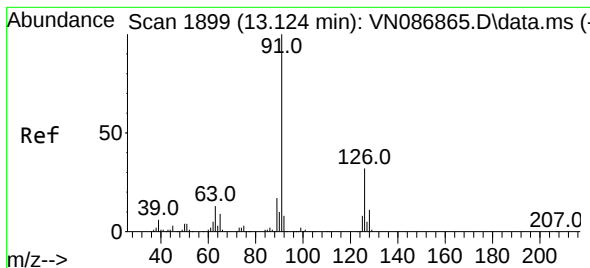
Tgt Ion:152 Resp: 167296
 Ion Ratio Lower Upper
 152 100
 115 60.6 30.1 90.5
 150 159.3 0.0 345.0



#76
 1,2,3-Trichloropropane
 Concen: 20.220 ug/l
 RT: 12.847 min Scan# 1852
 Delta R.T. -0.147 min
 Lab File: VN086968.D
 Acq: 12 Jun 2025 11:33

Tgt Ion: 75 Resp: 80410
 Ion Ratio Lower Upper
 75 100
 77 1.5 79.3 237.9#





#79

2-Chlorotoluene

Concen: 0.211 ug/l

RT: 13.129 min Scan# 1899

Delta R.T. 0.006 min

Lab File: VN086968.D

Acq: 12 Jun 2025 11:33

Instrument :

MSVOA_N

ClientSampleId :

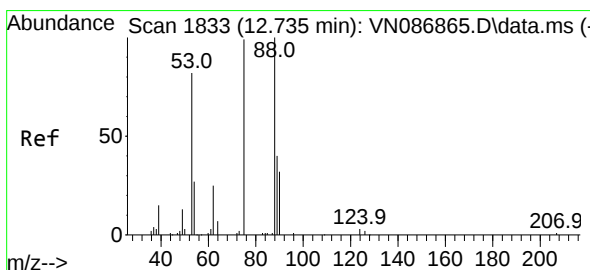
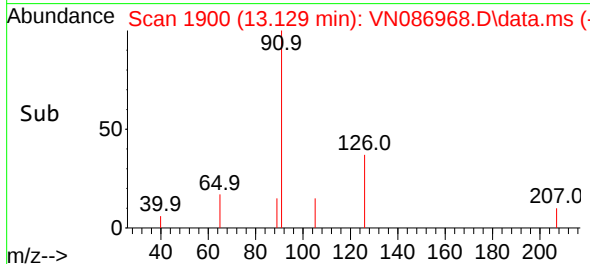
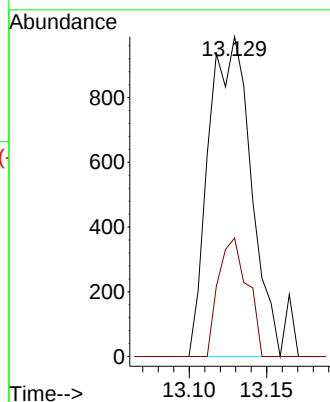
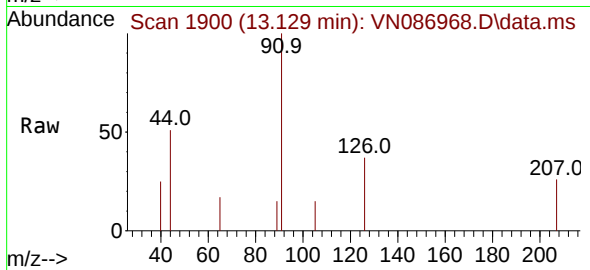
VN0612MBL01

Tgt Ion: 91 Resp: 1874

Ion Ratio Lower Upper

91 100

126 25.5 16.2 48.5



#81

trans-1,4-Dichloro-2-butene

Concen: 46.546 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. 0.112 min

Lab File: VN086968.D

Acq: 12 Jun 2025 11:33

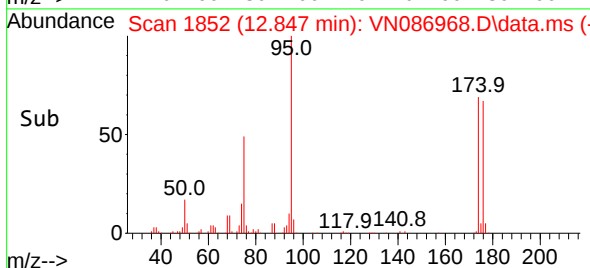
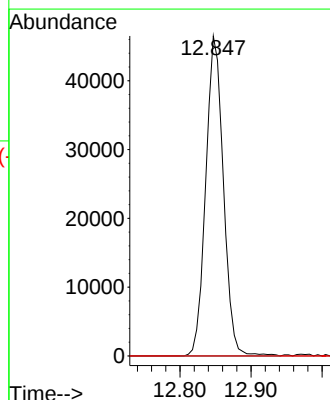
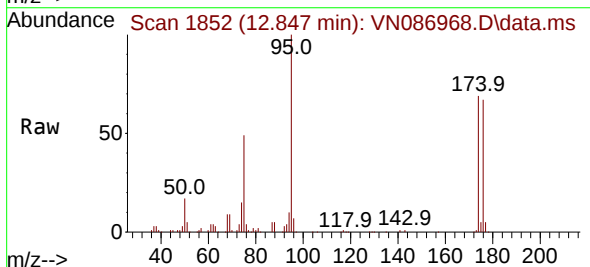
Tgt Ion: 75 Resp: 80410

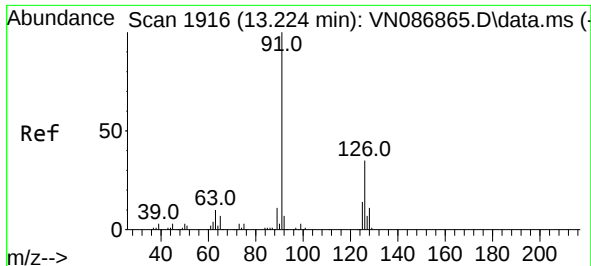
Ion Ratio Lower Upper

75 100

53 0.0 66.6 99.8#

89 0.0 36.7 55.1#

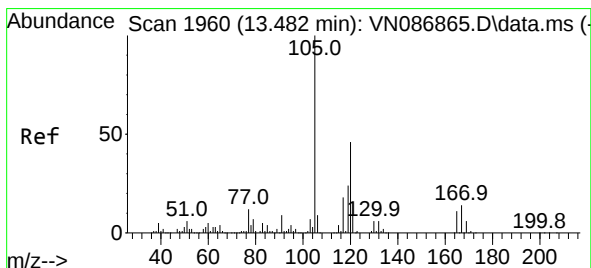
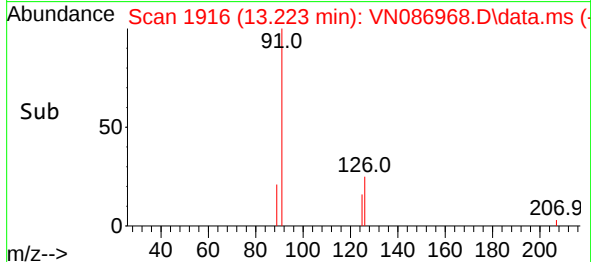
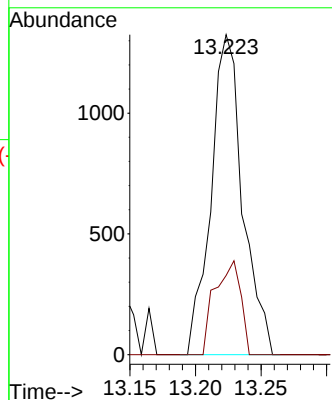
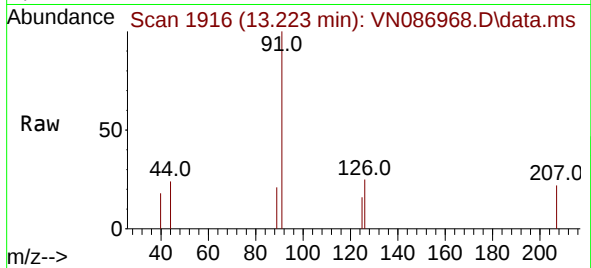




#82
4-Chlorotoluene
Concen: 0.248 ug/l
RT: 13.223 min Scan# 1916
Delta R.T. -0.000 min
Lab File: VN086968.D
Acq: 12 Jun 2025 11:33

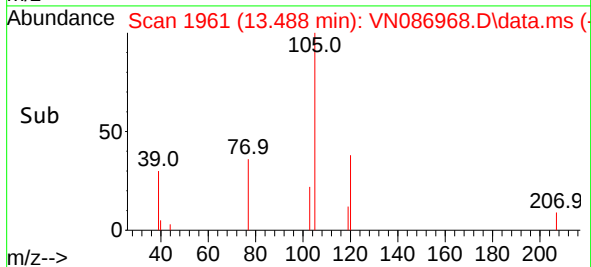
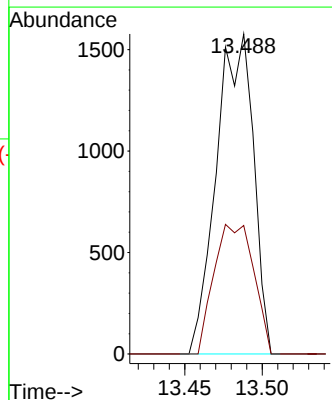
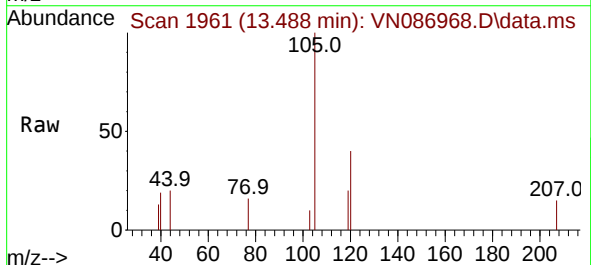
Instrument :
MSVOA_N
ClientSampleId :
VN0612MBL01

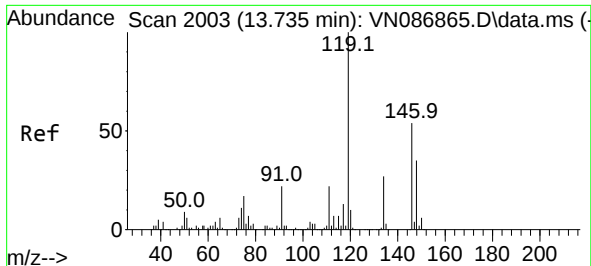
Tgt Ion: 91 Resp: 2228
Ion Ratio Lower Upper
91 100
126 23.8 16.7 50.1



#84
1,2,4-Trimethylbenzene
Concen: 0.259 ug/l
RT: 13.488 min Scan# 1961
Delta R.T. 0.006 min
Lab File: VN086968.D
Acq: 12 Jun 2025 11:33

Tgt Ion: 105 Resp: 2615
Ion Ratio Lower Upper
105 100
120 43.6 23.2 69.6





#87

1,3-Dichlorobenzene

Concen: 0.268 ug/l

RT: 13.723 min Scan# 2001

Delta R.T. -0.012 min

Lab File: VN086968.D

Acq: 12 Jun 2025 11:33

Instrument :

MSVOA_N

ClientSampleId :

VN0612MBL01

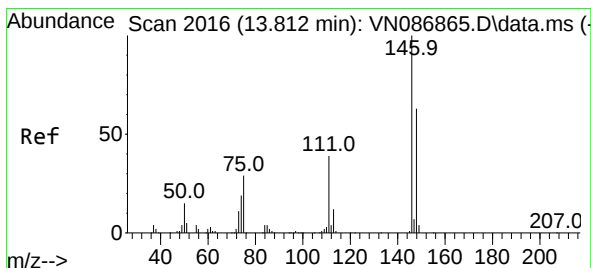
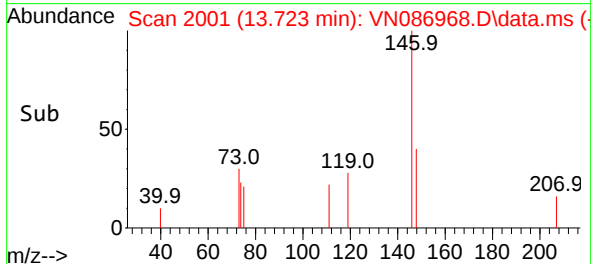
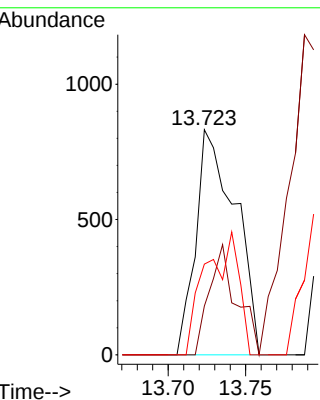
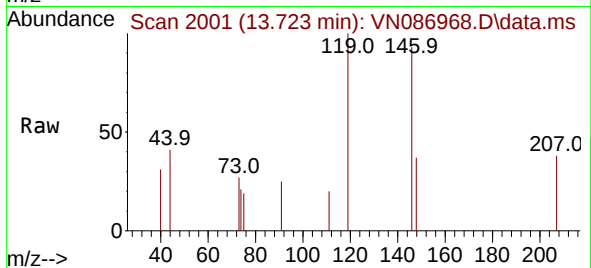
Tgt Ion:146 Resp: 1472

Ion Ratio Lower Upper

146 100

111 34.0 20.9 62.8

148 45.7 32.0 96.2



#88

1,4-Dichlorobenzene

Concen: 0.263 ug/l

RT: 13.723 min Scan# 2001

Delta R.T. -0.088 min

Lab File: VN086968.D

Acq: 12 Jun 2025 11:33

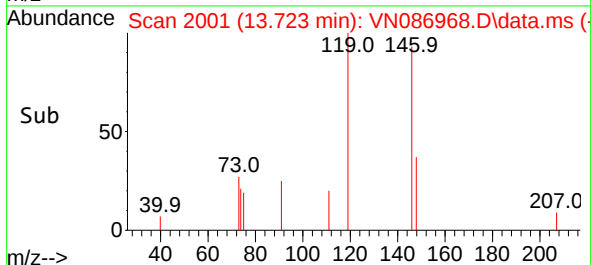
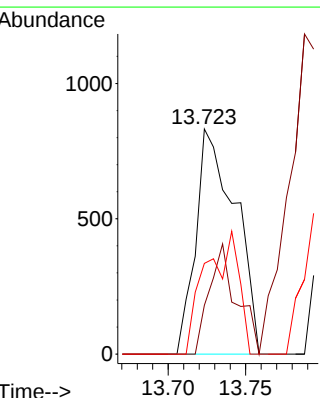
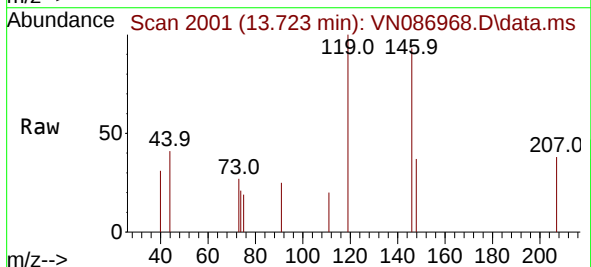
Tgt Ion:146 Resp: 1472

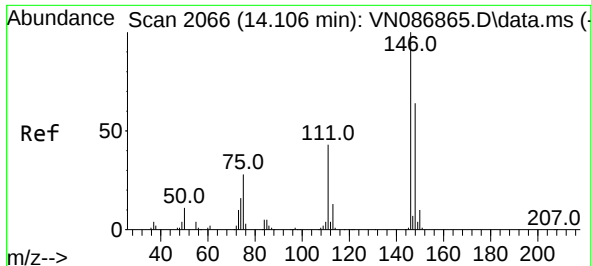
Ion Ratio Lower Upper

146 100

111 34.0 19.9 59.7

148 45.7 31.8 95.4

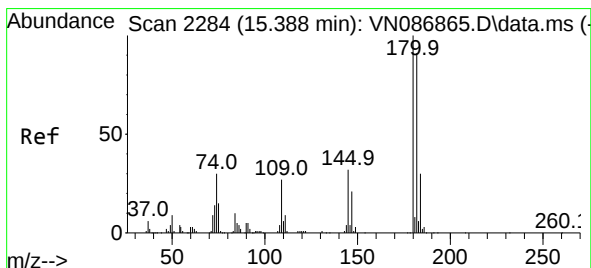
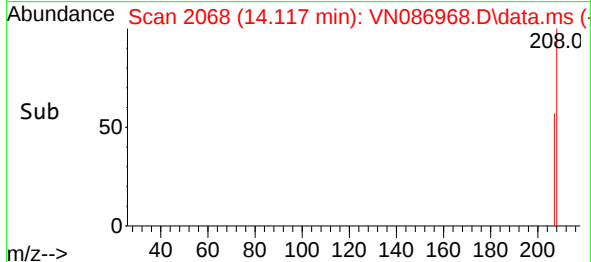
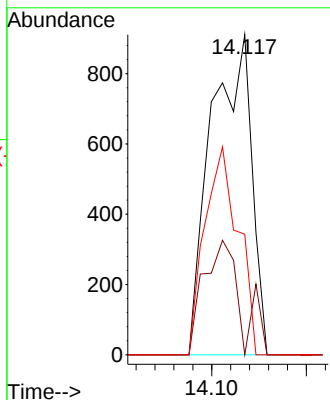
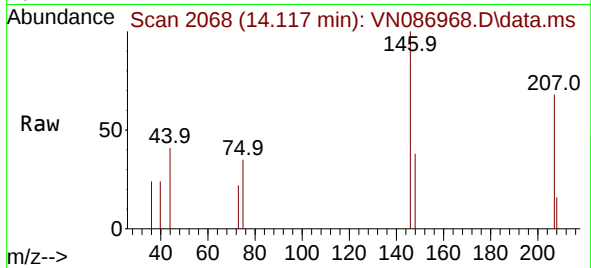




#91
1,2-Dichlorobenzene
Concen: 0.256 ug/l
RT: 14.117 min Scan# 2066
Delta R.T. 0.012 min
Lab File: VN086968.D
Acq: 12 Jun 2025 11:33

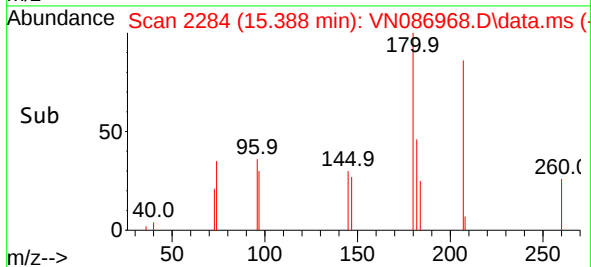
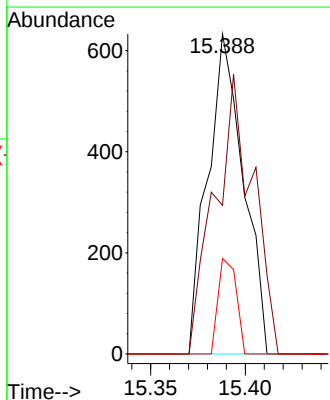
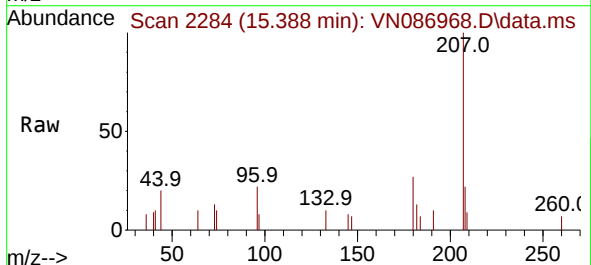
Instrument :
MSVOA_N
ClientSampleId :
VN0612MBL01

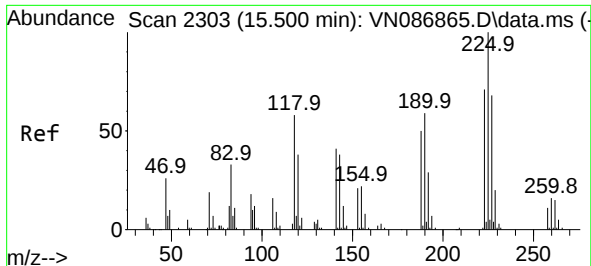
Tgt Ion:146 Resp: 1350
Ion Ratio Lower Upper
146 100
111 32.9 21.6 64.6
148 53.9 31.7 95.1



#93
1,2,4-Trichlorobenzene
Concen: 0.246 ug/l
RT: 15.388 min Scan# 2284
Delta R.T. -0.000 min
Lab File: VN086968.D
Acq: 12 Jun 2025 11:33

Tgt Ion:180 Resp: 829
Ion Ratio Lower Upper
180 100
182 93.2 46.9 140.7
145 15.2 16.0 47.9#

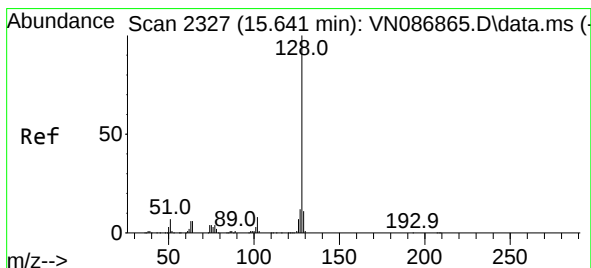
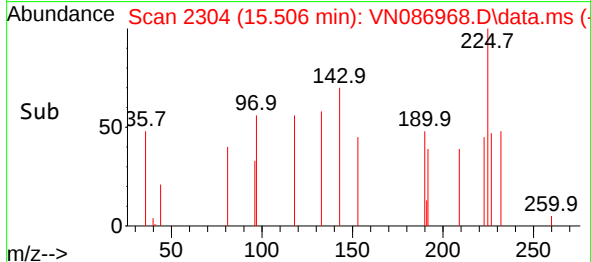
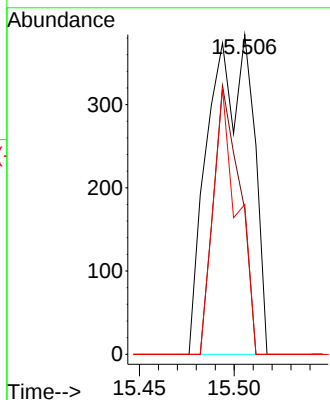
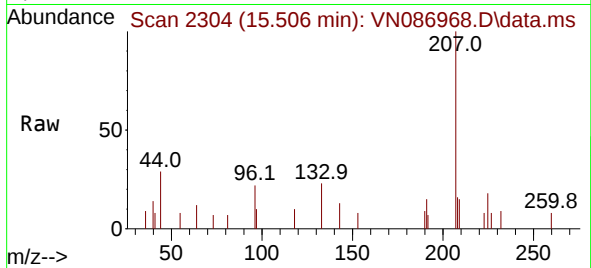




#94
Hexachlorobutadiene
Concen: 0.496 ug/l
RT: 15.506 min Scan# 21
Delta R.T. 0.006 min
Lab File: VN086968.D
Acq: 12 Jun 2025 11:33

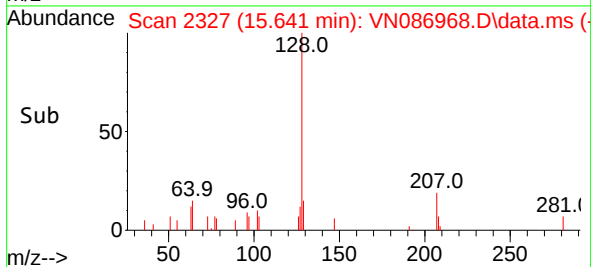
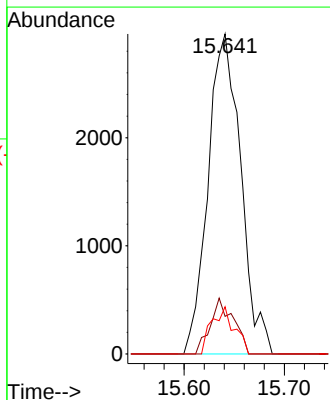
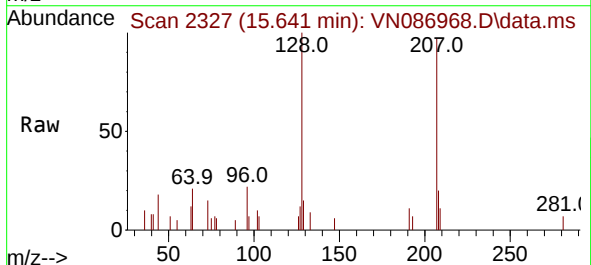
Instrument :
MSVOA_N
ClientSampleId :
VN0612MBL01

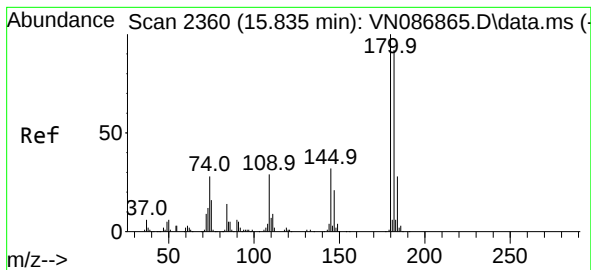
Tgt Ion:225 Resp: 623
Ion Ratio Lower Upper
225 100
223 50.6 33.5 100.4
227 46.2 31.1 93.5



#95
Naphthalene
Concen: 0.534 ug/l
RT: 15.641 min Scan# 2327
Delta R.T. -0.000 min
Lab File: VN086968.D
Acq: 12 Jun 2025 11:33

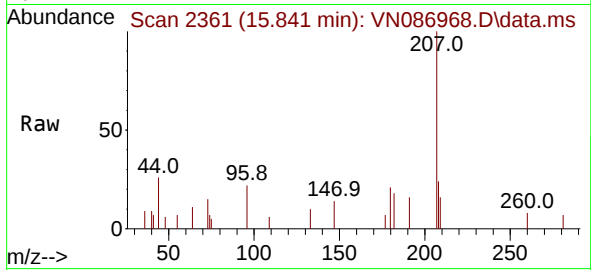
Tgt Ion:128 Resp: 6711
Ion Ratio Lower Upper
128 100
127 12.4 10.2 15.2
129 10.2 8.8 13.2





#96
 1,2,3-Trichlorobenzene
 Concen: 0.291 ug/l
 RT: 15.841 min Scan# 21
 Delta R.T. 0.006 min
 Lab File: VN086968.D
 Acq: 12 Jun 2025 11:33

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0612MBL01



Tgt Ion:180 Resp: 976
 Ion Ratio Lower Upper
 180 100
 182 71.6 47.0 141.0
 145 13.2 16.6 49.8#

