

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090225\
 Data File : VN087710.D
 Acq On : 02 Sep 2025 13:36
 Operator : JC\MD
 Sample : Q2991-01DL 5X
 Misc : 1.00g/10mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 309DL

Quant Time: Sep 03 01:19:43 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 22 02:55:42 2025
 Response via : Initial Calibration

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

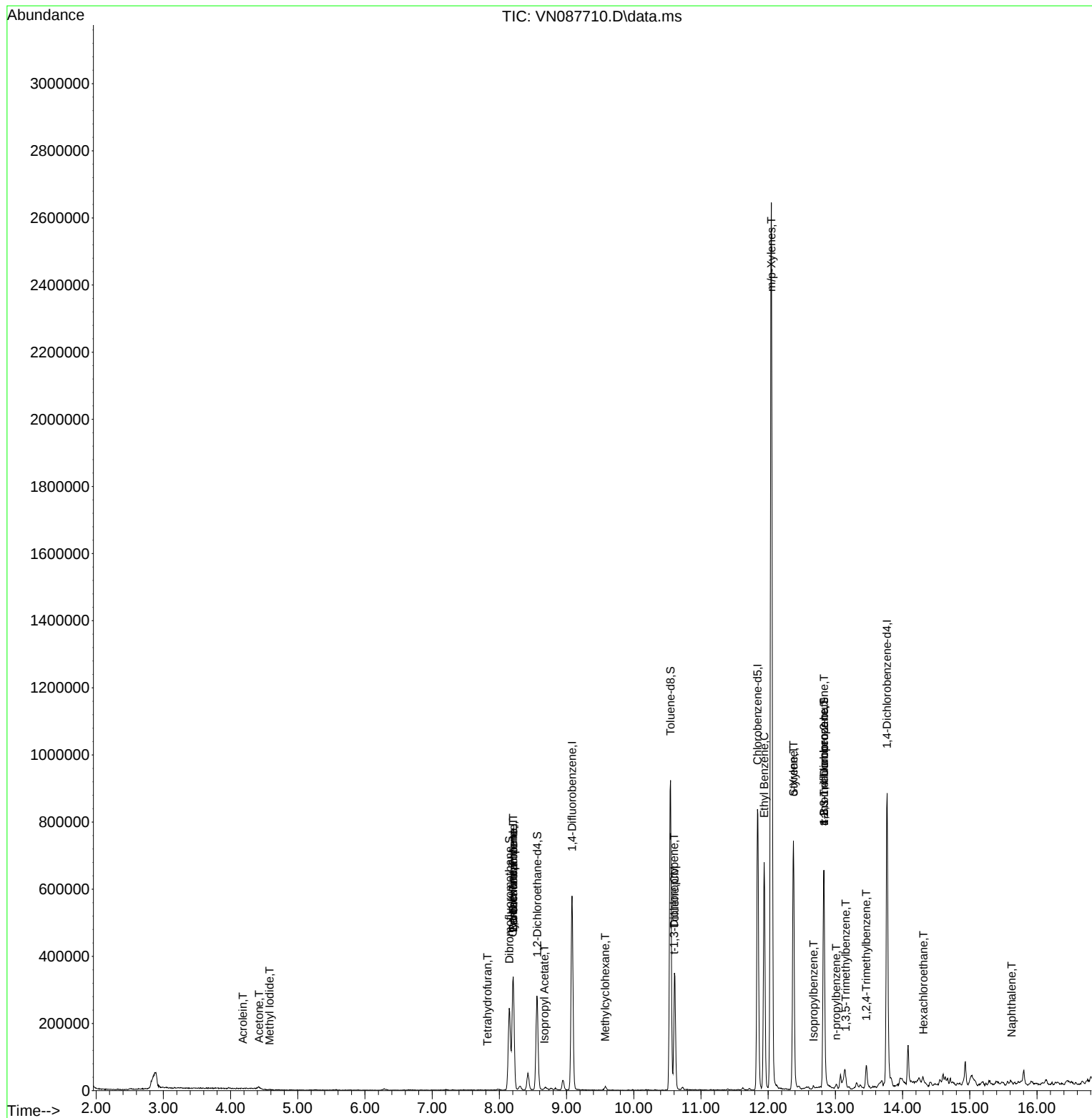
Internal Standards						
1) Pentafluorobenzene	8.206	168	202423	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	478586	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	468403	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	230615	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.565	65	227238	54.790	ug/l	0.00
Spiked Amount	50.000	Range 74 - 125	Recovery	= 109.580%		
35) Dibromofluoromethane	8.147	113	170493	49.341	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	= 98.680%		
50) Toluene-d8	10.547	98	624534	48.290	ug/l	0.00
Spiked Amount	50.000	Range 86 - 113	Recovery	= 96.580%		
62) 4-Bromofluorobenzene	12.829	95	233069	50.675	ug/l	0.00
Spiked Amount	50.000	Range 77 - 121	Recovery	= 101.340%		
Target Compounds						
					Qvalue	
10) Methyl Iodide	4.583	142	538	7.029	ug/l #	38
13) Acrolein	4.183	56	265	0.299	ug/l #	1
16) Acetone	4.424	43	8155	3.612	ug/l #	87
20) Methylene Chloride	5.259	84	972	Below Cal	#	40
29) Tetrahydrofuran	7.824	42	438	0.229	ug/l #	53
31) Cyclohexane	8.200	56	13651	2.617	ug/l #	68
36) 1,1-Dichloropropene	8.206	75	20111	3.794	ug/l #	51
38) Carbon Tetrachloride	8.206	117	23338	4.459	ug/l #	15
39) Methylcyclohexane	9.577	83	4070	0.697	ug/l #	85
43) Isopropyl Acetate	8.671	43	3272	0.289	ug/l #	58
52) Toluene	10.606	92	149998	14.881	ug/l	95
53) t-1,3-Dichloropropene	10.600	75	2263	0.350	ug/l #	14
67) Ethyl Benzene	11.941	91	492480	24.409	ug/l	99
68) m/p-Xylenes	12.047	106	810837	109.578	ug/l	99
69) o-Xylene	12.376	106	198960	27.437	ug/l	96
70) Styrene	12.376	104	11451	0.943	ug/l #	1
73) Isopropylbenzene	12.676	105	6383	0.343	ug/l	92
76) 1,2,3-Trichloropropane	12.829	75	134476	24.866	ug/l #	1
78) n-propylbenzene	13.012	91	12296	0.536	ug/l	94
80) 1,3,5-Trimethylbenzene	13.153	105	11131	0.704	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.829	75	134476	65.830	ug/l #	1
84) 1,2,4-Trimethylbenzene	13.459	105	43344	2.739	ug/l	97
90) Hexachloroethane	14.312	117	1773	0.576	ug/l #	22
95) Naphthalene	15.623	128	12070	0.691	ug/l #	91

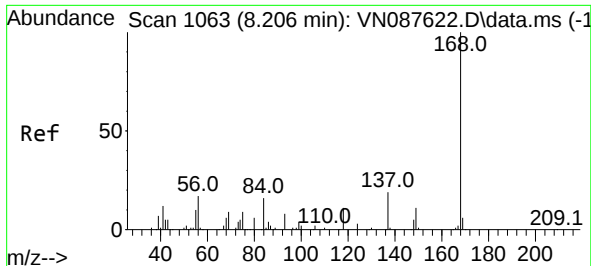
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :
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Quant Title : SW846 8260
QLast Update : Fri Aug 22 02:55:42 2025
Response via : Initial Calibration

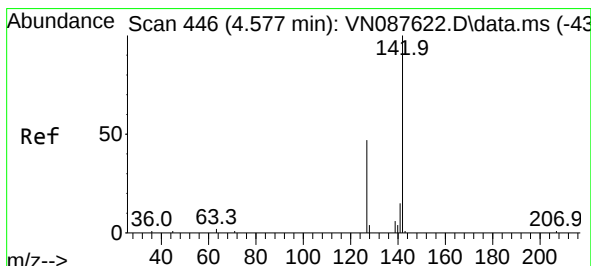
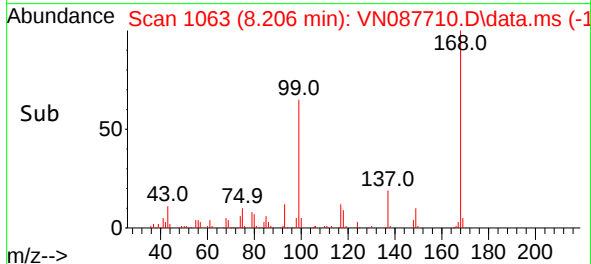
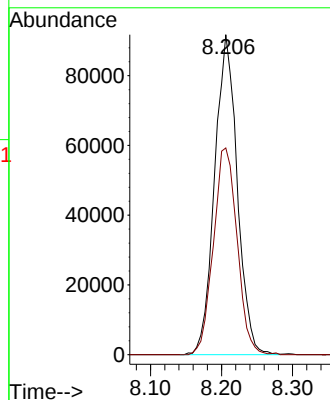
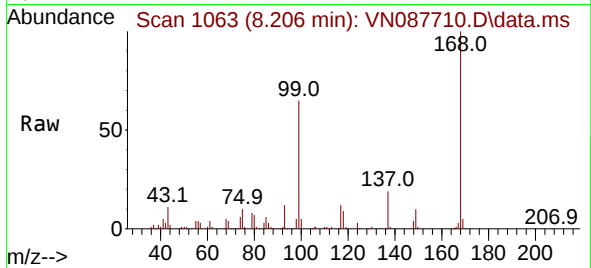




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. 0.000 min
Lab File: VN087710.D
Acq: 02 Sep 2025 13:36

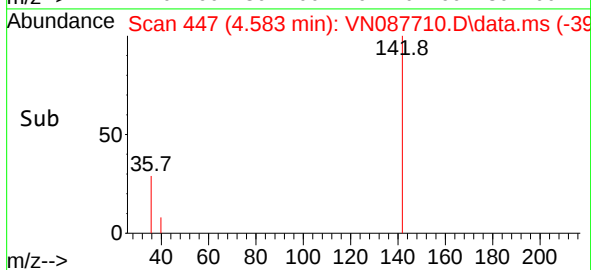
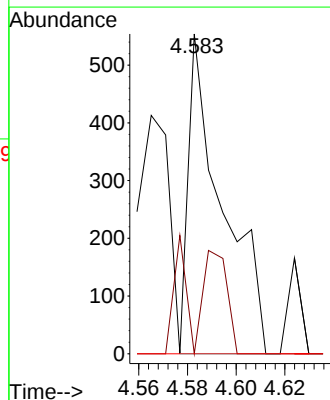
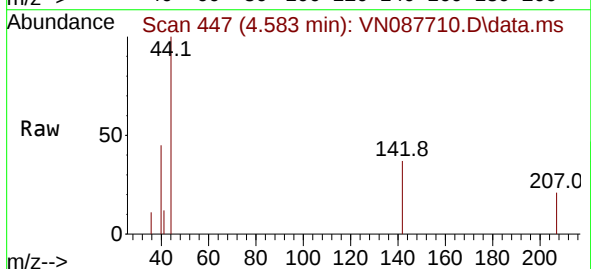
Instrument :
MSVOA_N
ClientSampleId :
309DL

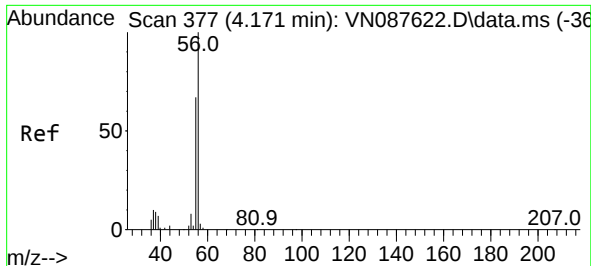
Tgt Ion:168 Resp: 202423
Ion Ratio Lower Upper
168 100
99 64.6 57.2 85.8



#10
Methyl Iodide
Concen: 7.029 ug/l
RT: 4.583 min Scan# 447
Delta R.T. 0.006 min
Lab File: VN087710.D
Acq: 02 Sep 2025 13:36

Tgt Ion:142 Resp: 538
Ion Ratio Lower Upper
142 100
127 0.0 38.0 57.0#
141 0.0 12.0 18.0#

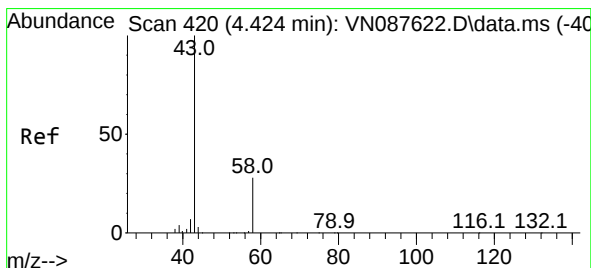
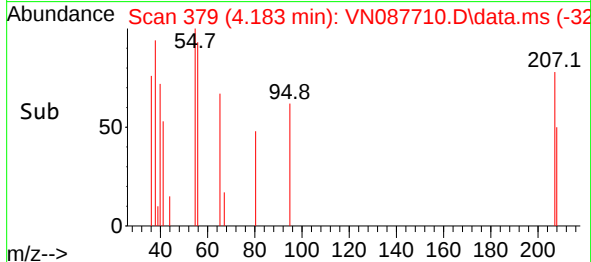
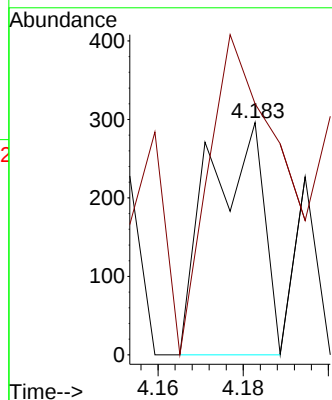
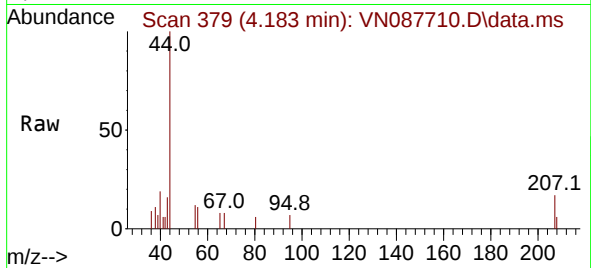




#13
Acrolein
Concen: 0.299 ug/l
RT: 4.183 min Scan# 31
Delta R.T. 0.012 min
Lab File: VN087710.D
Acq: 02 Sep 2025 13:36

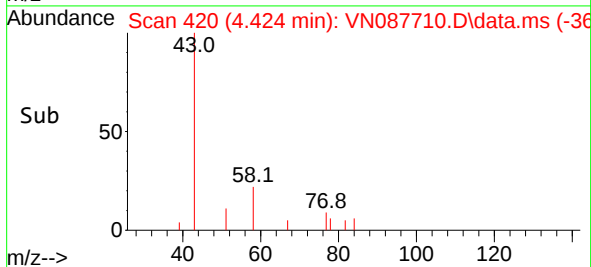
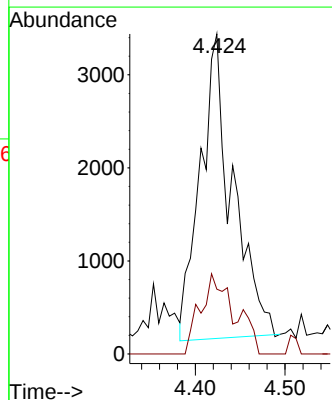
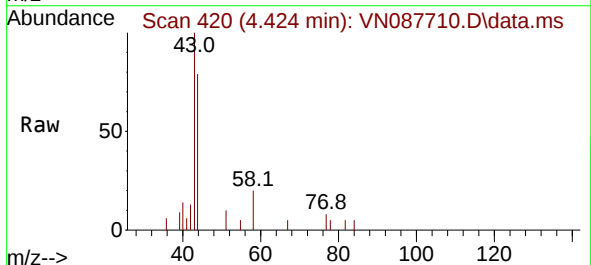
Instrument :
MSVOA_N
ClientSampleId :
309DL

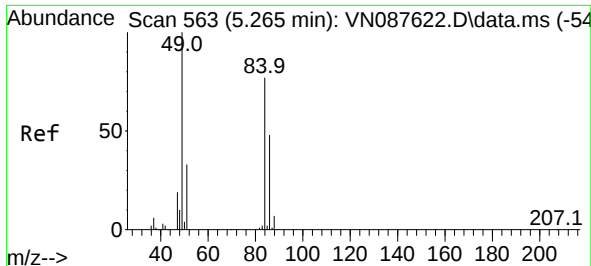
Tgt Ion: 56 Resp: 265
Ion Ratio Lower Upper
56 100
55 184.2 57.3 85.9#



#16
Acetone
Concen: 3.612 ug/l
RT: 4.424 min Scan# 420
Delta R.T. -0.000 min
Lab File: VN087710.D
Acq: 02 Sep 2025 13:36

Tgt Ion: 43 Resp: 8155
Ion Ratio Lower Upper
43 100
58 21.6 22.6 33.8#

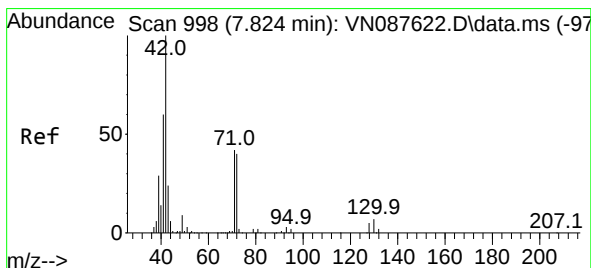
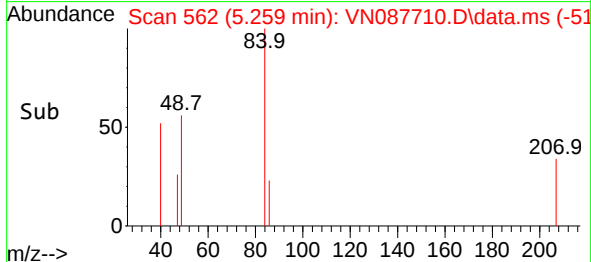
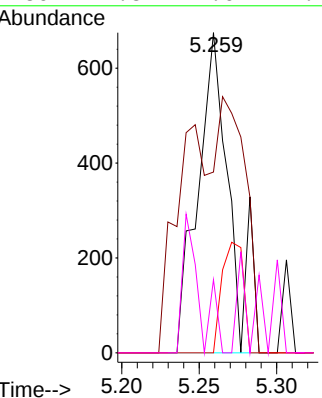
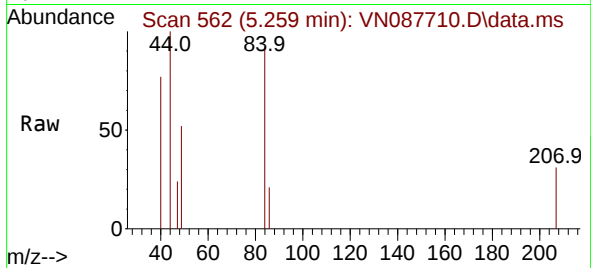




#20
Methylene Chloride
Concen: Below Cal
RT: 5.259 min Scan# 509
Delta R.T. -0.006 min
Lab File: VN087710.D
Acq: 02 Sep 2025 13:36

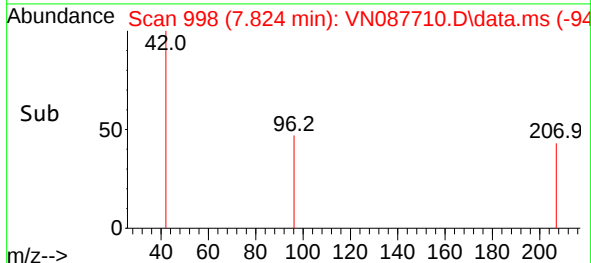
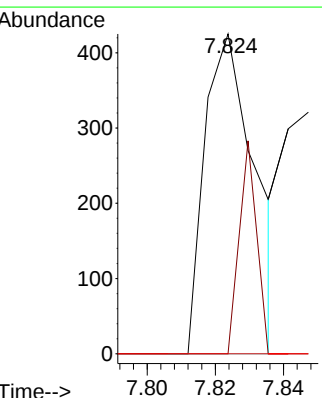
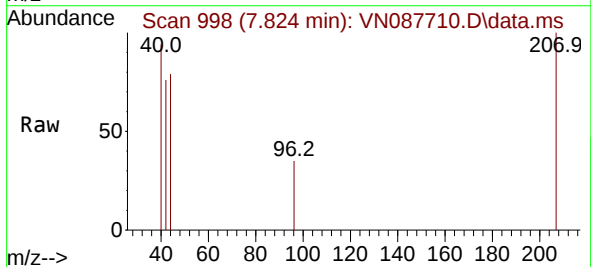
Instrument :
MSVOA_N
ClientSampleId :
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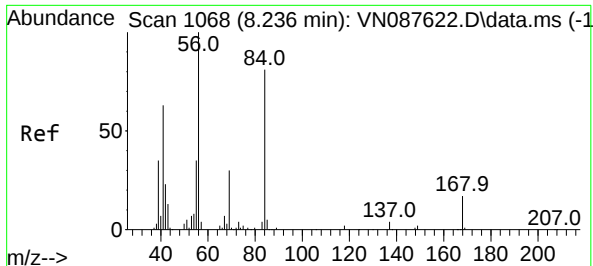
Tgt Ion:	84	Resp:	972
Ion	Ratio	Lower	Upper
84	100		
49	56.4	103.4	155.2#
51	0.0	33.8	50.8#
86	22.8	49.6	74.4#



#29
Tetrahydrofuran
Concen: 0.229 ug/l
RT: 7.824 min Scan# 998
Delta R.T. -0.000 min
Lab File: VN087710.D
Acq: 02 Sep 2025 13:36

Tgt Ion:	42	Resp:	438
Ion	Ratio	Lower	Upper
42	100		
72	22.8	33.7	50.5#
71	0.0	31.9	47.9#

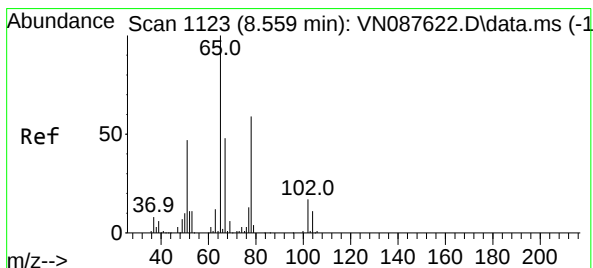
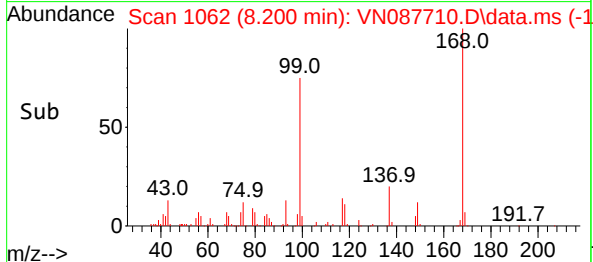
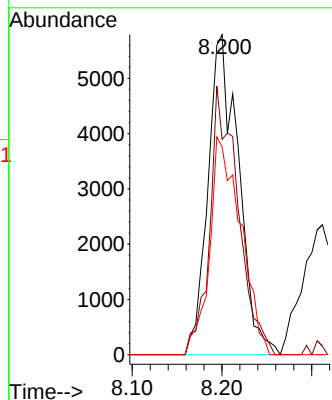
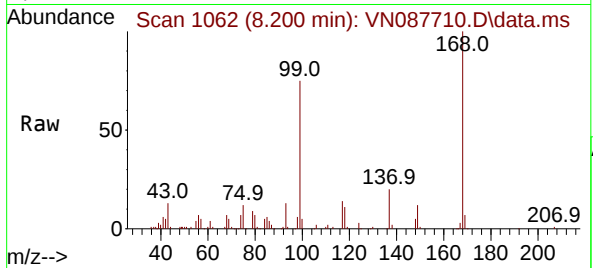




#31
Cyclohexane
Concen: 2.617 ug/l
RT: 8.200 min Scan# 1068
Delta R.T. -0.035 min
Lab File: VN087710.D
Acq: 02 Sep 2025 13:36

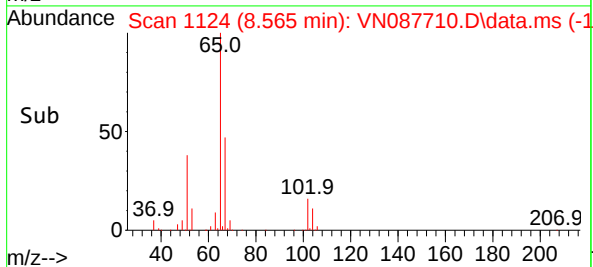
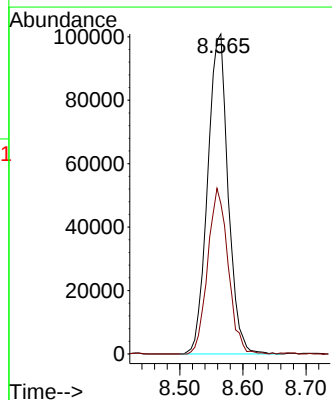
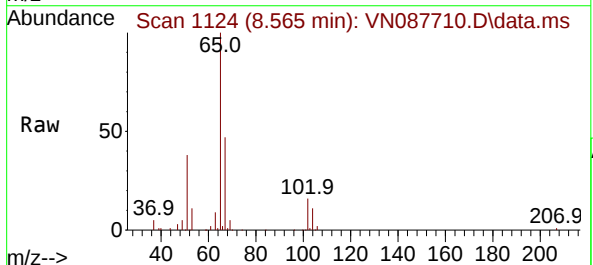
Instrument :
MSVOA_N
ClientSampleId :
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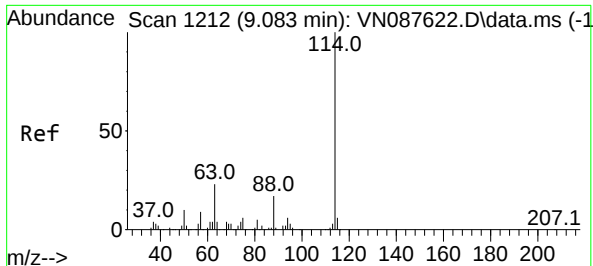
Tgt Ion: 56 Resp: 13651
Ion Ratio Lower Upper
56 100
69 67.3 23.7 35.5#
84 64.9 64.7 97.1



#33
1,2-Dichloroethane-d4
Concen: 54.790 ug/l
RT: 8.565 min Scan# 1124
Delta R.T. 0.006 min
Lab File: VN087710.D
Acq: 02 Sep 2025 13:36

Tgt Ion: 65 Resp: 227238
Ion Ratio Lower Upper
65 100
67 51.7 0.0 100.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.082 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN087710.D

Acq: 02 Sep 2025 13:36

Instrument :

MSVOA_N

ClientSampleId :

309DL

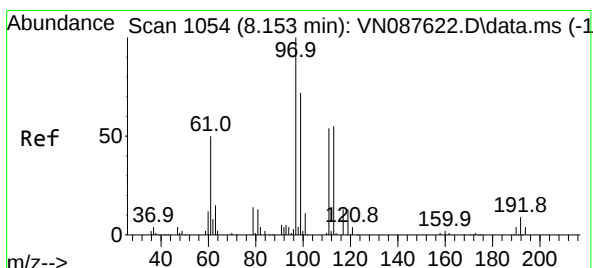
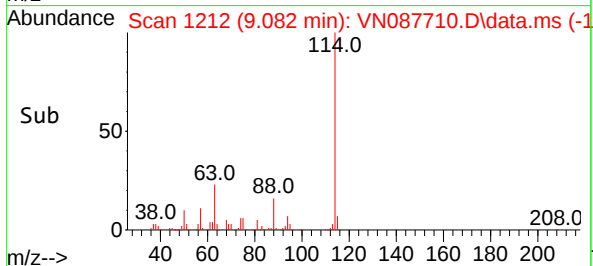
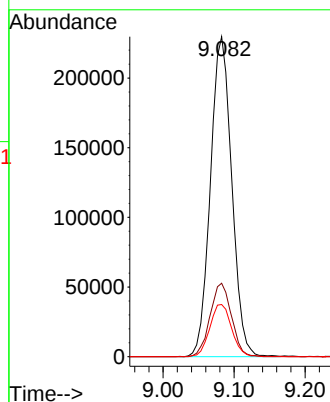
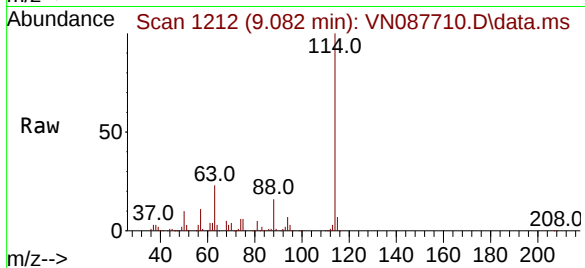
Tgt Ion:114 Resp: 478586

Ion Ratio Lower Upper

114 100

63 22.9 0.0 45.2

88 16.3 0.0 33.4



#35

Dibromofluoromethane

Concen: 49.341 ug/l

RT: 8.147 min Scan# 1053

Delta R.T. -0.006 min

Lab File: VN087710.D

Acq: 02 Sep 2025 13:36

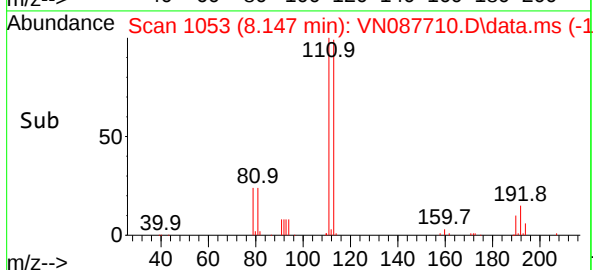
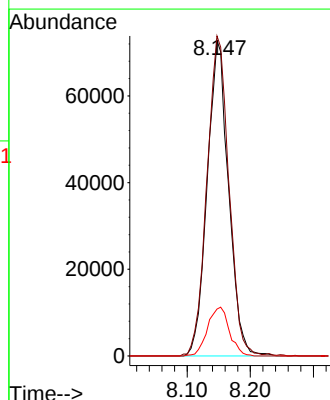
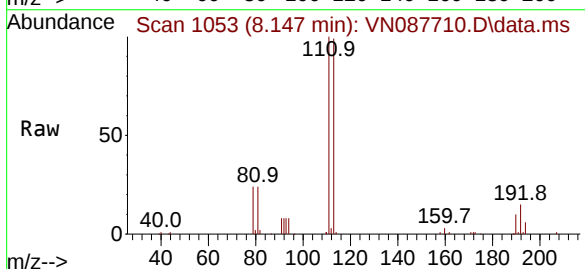
Tgt Ion:113 Resp: 170493

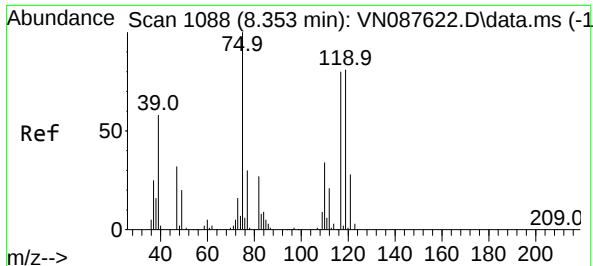
Ion Ratio Lower Upper

113 100

111 104.5 82.8 124.2

192 15.8 12.8 19.2

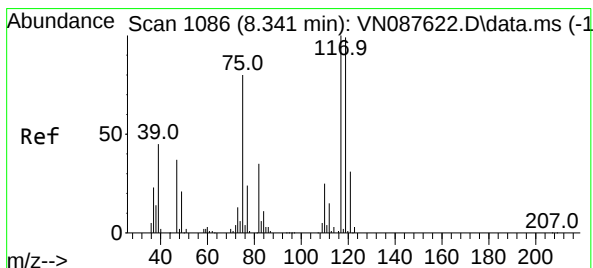
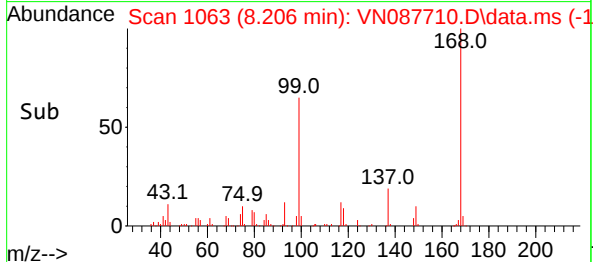
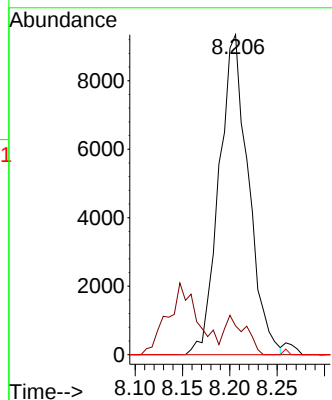
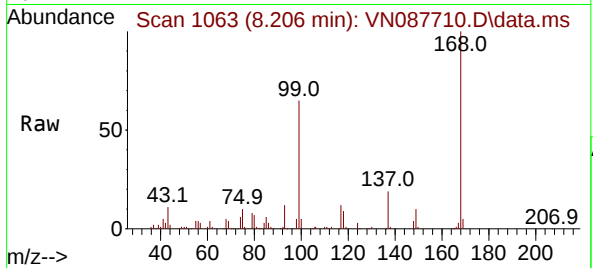




#36
1,1-Dichloropropene
Concen: 3.794 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. -0.147 min
Lab File: VN087710.D
Acq: 02 Sep 2025 13:36

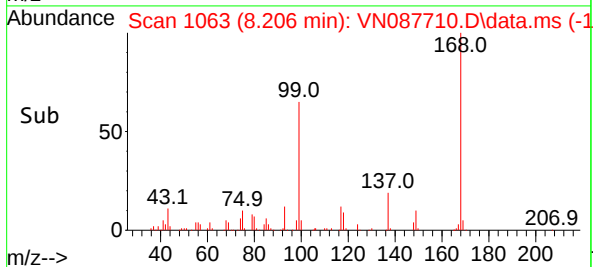
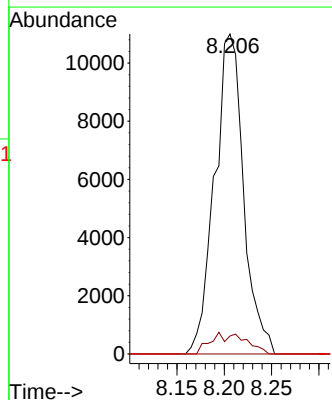
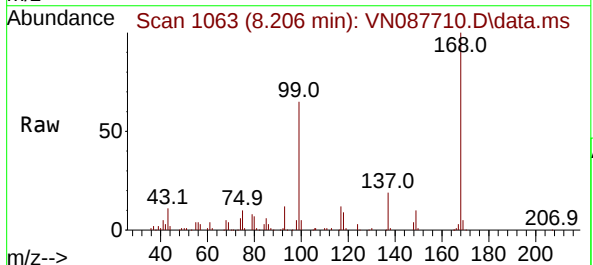
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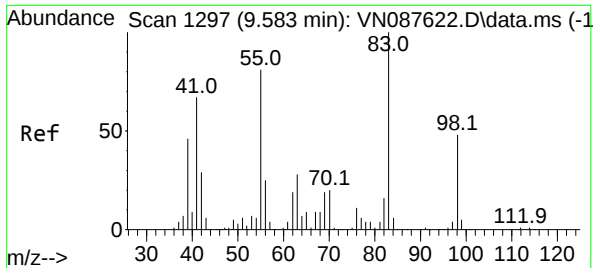
Tgt Ion: 75 Resp: 20111
Ion Ratio Lower Upper
75 100
110 8.7 15.9 47.6#
77 0.0 24.4 36.6#



#38
Carbon Tetrachloride
Concen: 4.459 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. -0.135 min
Lab File: VN087710.D
Acq: 02 Sep 2025 13:36

Tgt Ion: 117 Resp: 23338
Ion Ratio Lower Upper
117 100
119 5.6 79.0 118.6#
121 0.0 25.0 37.6#

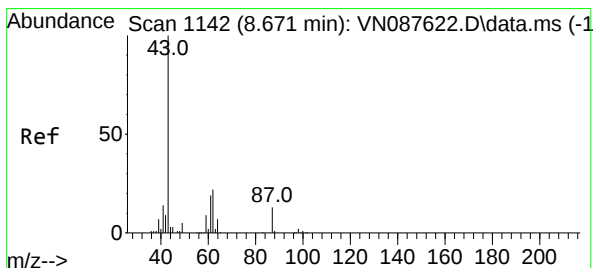
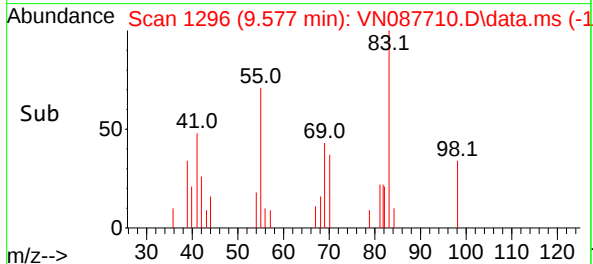
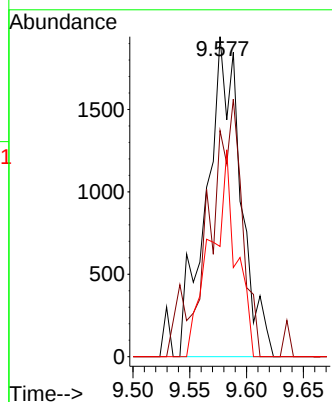
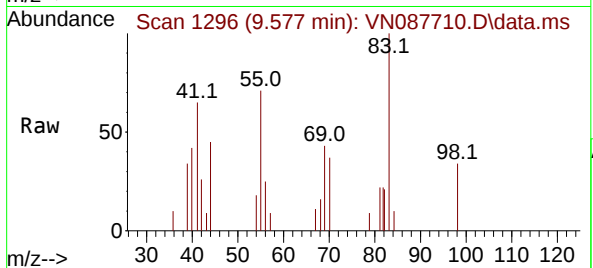




#39
Methylcyclohexane
Concen: 0.697 ug/l
RT: 9.577 min Scan# 11296
Delta R.T. -0.006 min
Lab File: VN087710.D
Acq: 02 Sep 2025 13:36

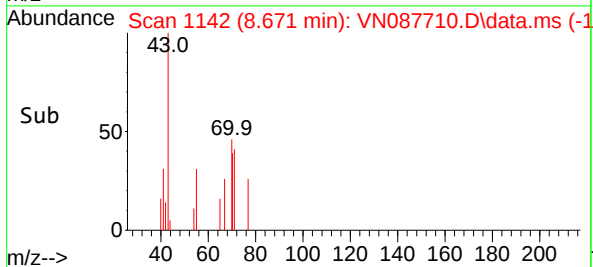
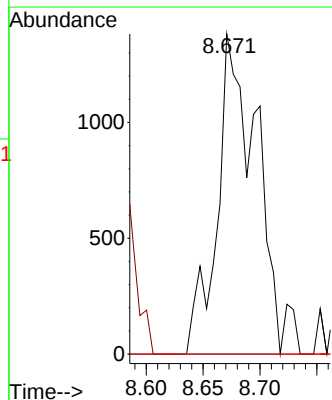
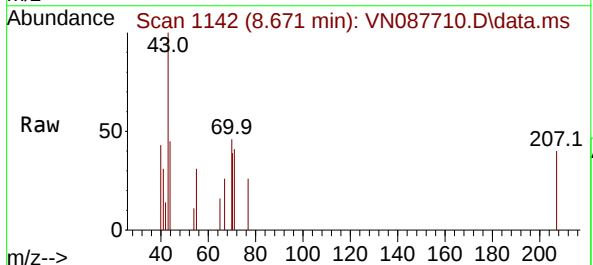
Instrument :
MSVOA_N
ClientSampleId :
309DL

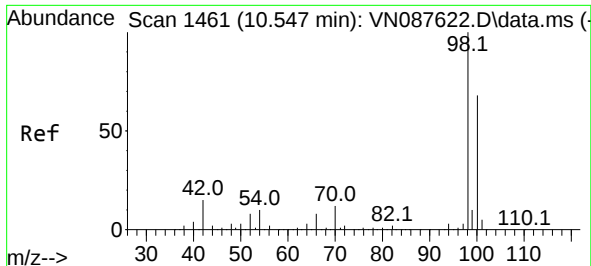
Tgt Ion: 83 Resp: 4070
Ion Ratio Lower Upper
83 100
55 70.6 64.6 96.8
98 34.4 38.4 57.6#



#43
Isopropyl Acetate
Concen: 0.289 ug/l
RT: 8.671 min Scan# 1142
Delta R.T. -0.000 min
Lab File: VN087710.D
Acq: 02 Sep 2025 13:36

Tgt Ion: 43 Resp: 3272
Ion Ratio Lower Upper
43 100
61 0.0 18.8 28.2#
87 0.0 9.6 14.4#

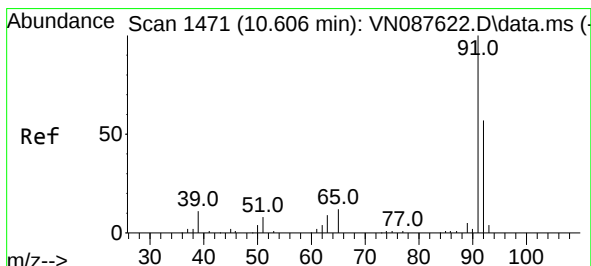
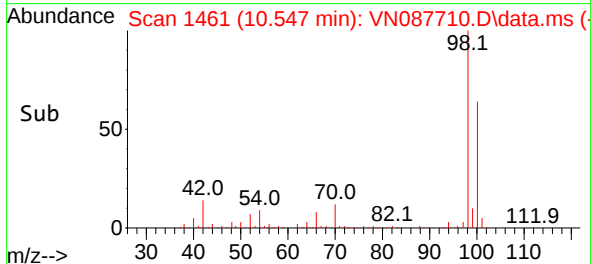
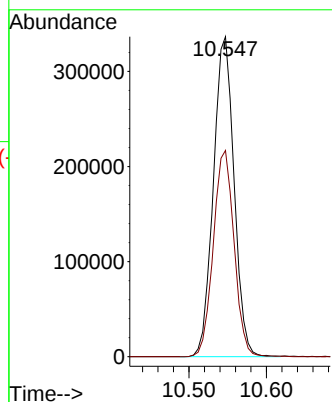
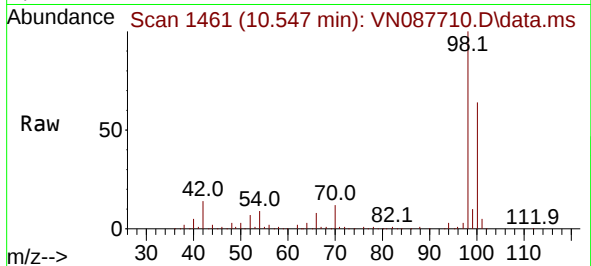




#50
Toluene-d8
Concen: 48.290 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. -0.000 min
Lab File: VN087710.D
Acq: 02 Sep 2025 13:36

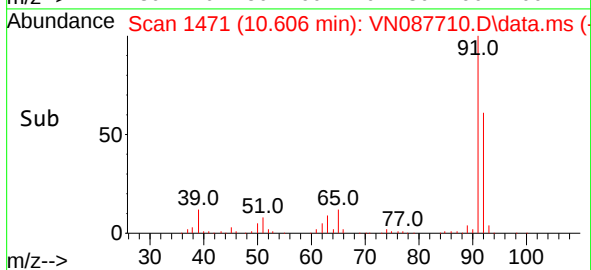
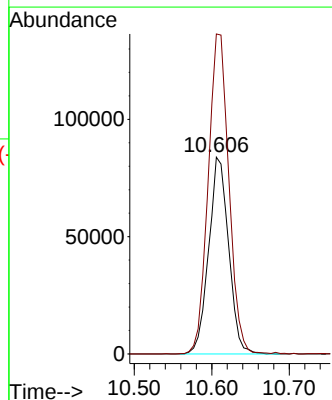
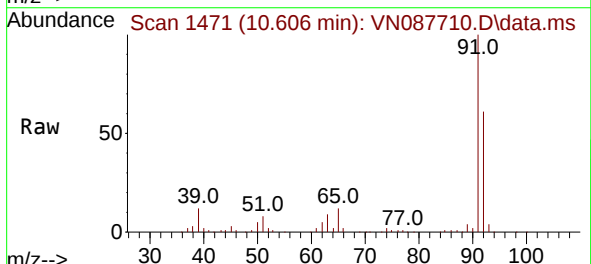
Instrument :
MSVOA_N
ClientSampleId :
309DL

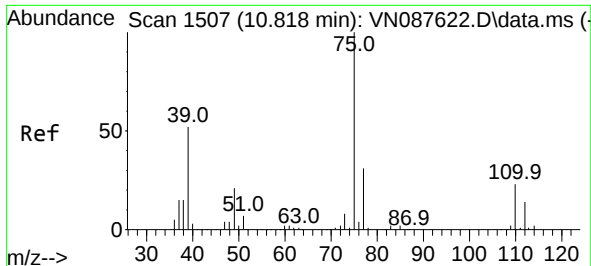
Tgt Ion: 98 Resp: 624534
Ion Ratio Lower Upper
98 100
100 64.7 52.8 79.2



#52
Toluene
Concen: 14.881 ug/l
RT: 10.606 min Scan# 1471
Delta R.T. -0.000 min
Lab File: VN087710.D
Acq: 02 Sep 2025 13:36

Tgt Ion: 92 Resp: 149998
Ion Ratio Lower Upper
92 100
91 168.7 140.4 210.6

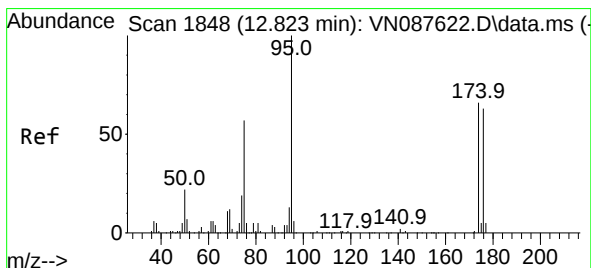
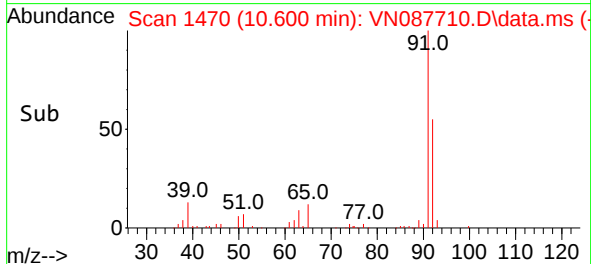
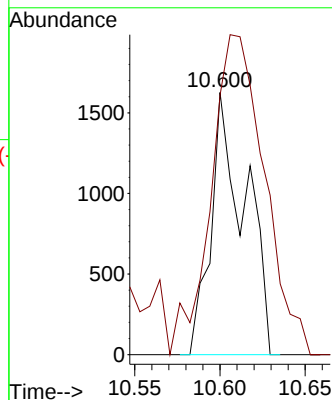
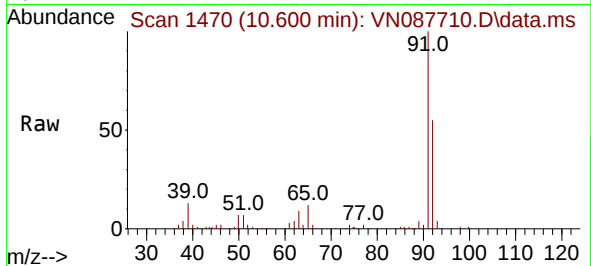




#53
t-1,3-Dichloropropene
Concen: 0.350 ug/l
RT: 10.600 min Scan# 14
Delta R.T. -0.218 min
Lab File: VN087710.D
Acq: 02 Sep 2025 13:36

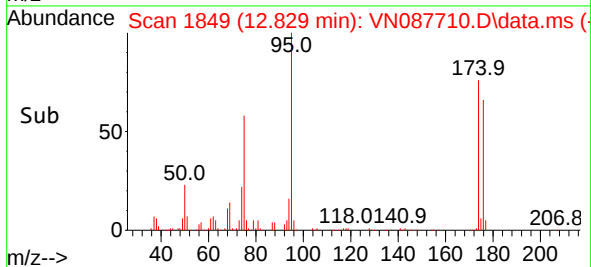
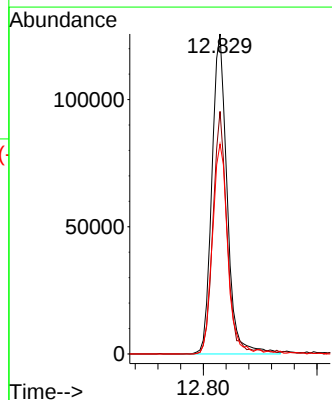
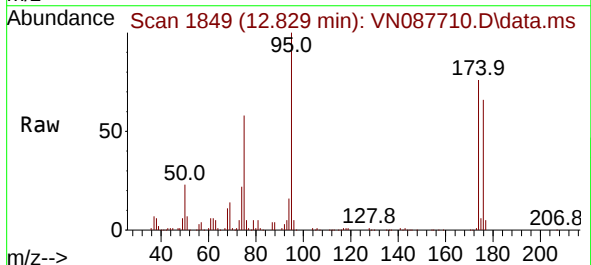
Instrument :
MSVOA_N
ClientSampleId :
309DL

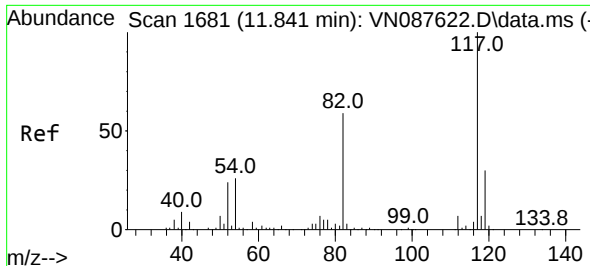
Tgt Ion: 75 Resp: 2263
Ion Ratio Lower Upper
75 100
77 79.2 25.2 37.8#



#62
4-Bromofluorobenzene
Concen: 50.675 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.006 min
Lab File: VN087710.D
Acq: 02 Sep 2025 13:36

Tgt Ion: 95 Resp: 233069
Ion Ratio Lower Upper
95 100
174 70.7 0.0 138.4
176 65.7 0.0 132.6

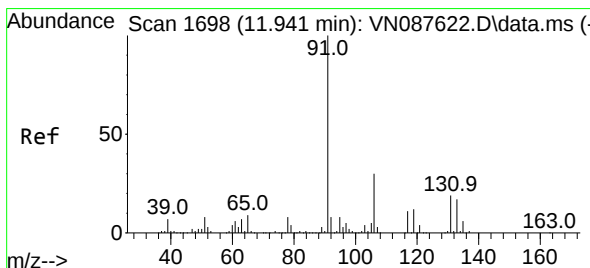
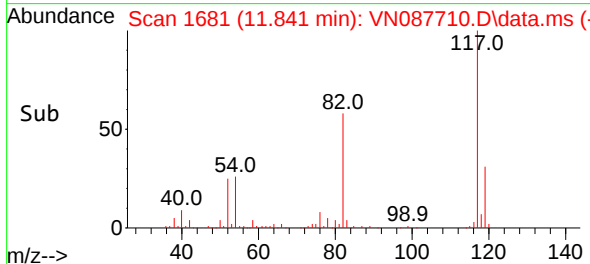
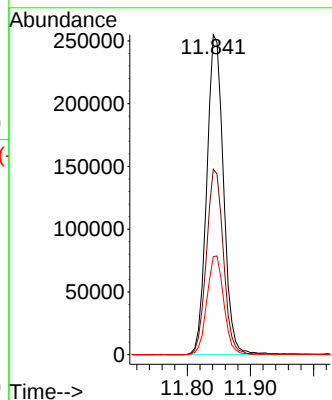
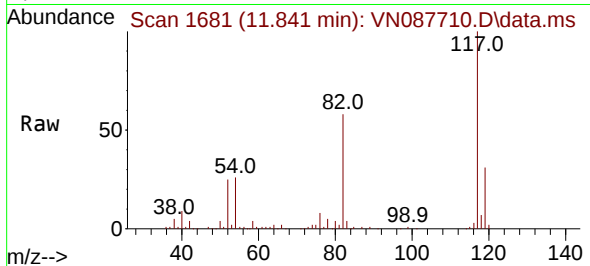




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.841 min Scan# 1681
Delta R.T. -0.000 min
Lab File: VN087710.D
Acq: 02 Sep 2025 13:36

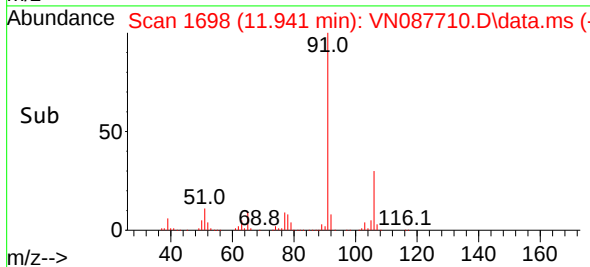
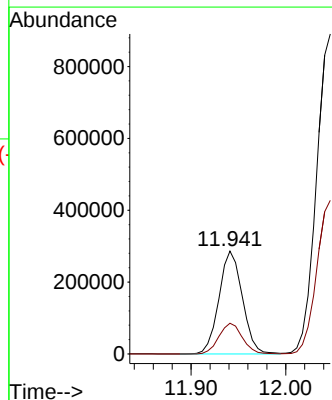
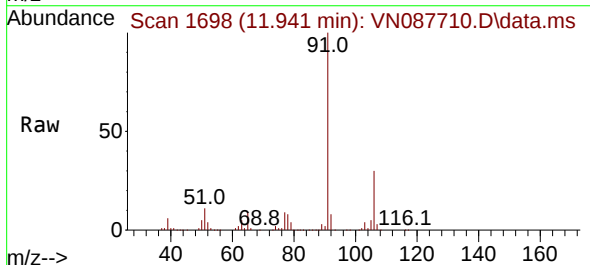
Instrument :
MSVOA_N
ClientSampleId :
309DL

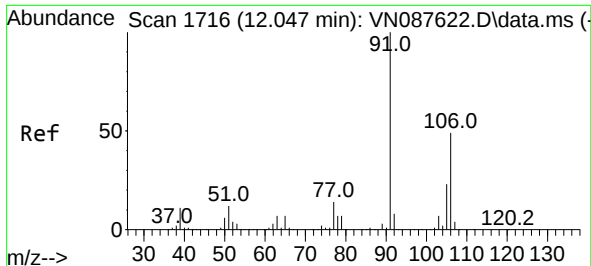
Tgt Ion:117 Resp: 468403
Ion Ratio Lower Upper
117 100
82 58.0 47.4 71.2
119 30.6 24.3 36.5



#67
Ethyl Benzene
Concen: 24.409 ug/l
RT: 11.941 min Scan# 1698
Delta R.T. -0.000 min
Lab File: VN087710.D
Acq: 02 Sep 2025 13:36

Tgt Ion: 91 Resp: 492480
Ion Ratio Lower Upper
91 100
106 29.7 24.1 36.1

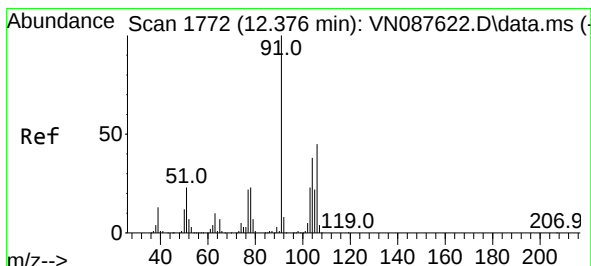
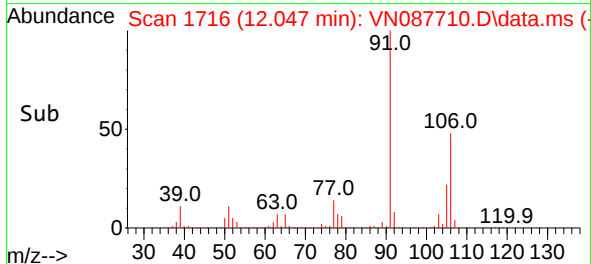
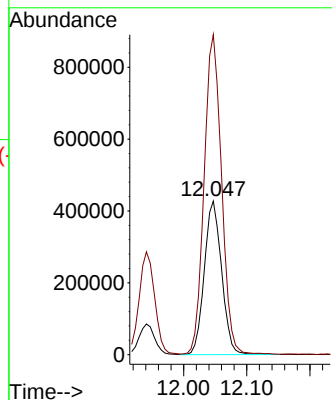
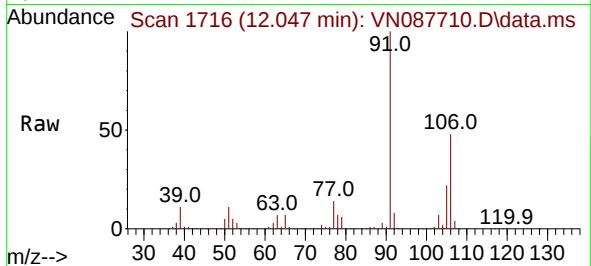




#68
m/p-Xylenes
Concen: 109.578 ug/l
RT: 12.047 min Scan# 1716
Delta R.T. -0.000 min
Lab File: VN087710.D
Acq: 02 Sep 2025 13:36

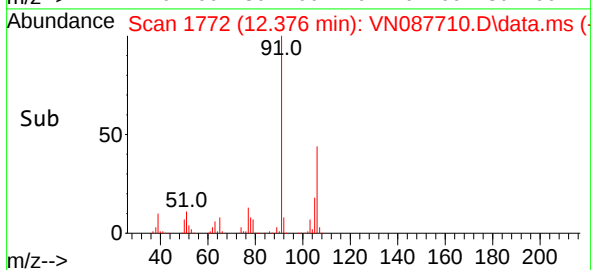
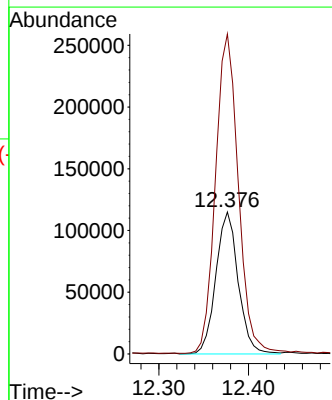
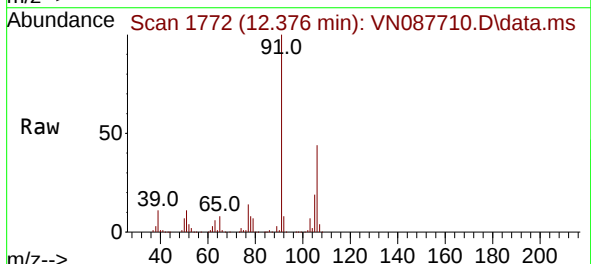
Instrument :
MSVOA_N
ClientSampleId :
309DL

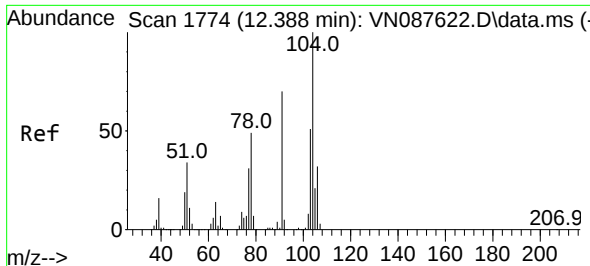
Tgt Ion:106 Resp: 810837
Ion Ratio Lower Upper
106 100
91 209.9 169.3 253.9



#69
o-Xylene
Concen: 27.437 ug/l
RT: 12.376 min Scan# 1772
Delta R.T. -0.000 min
Lab File: VN087710.D
Acq: 02 Sep 2025 13:36

Tgt Ion:106 Resp: 198960
Ion Ratio Lower Upper
106 100
91 229.7 111.4 334.2

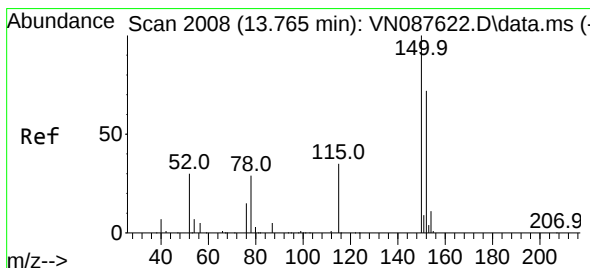
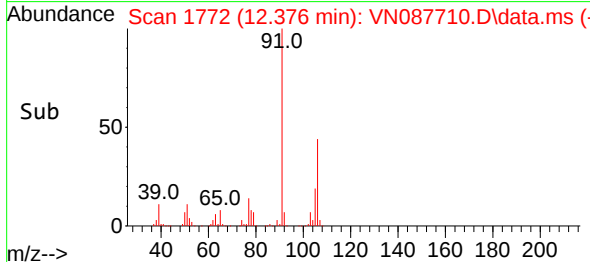
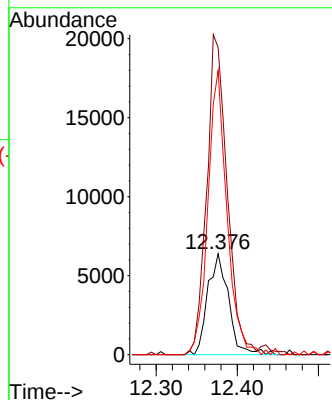
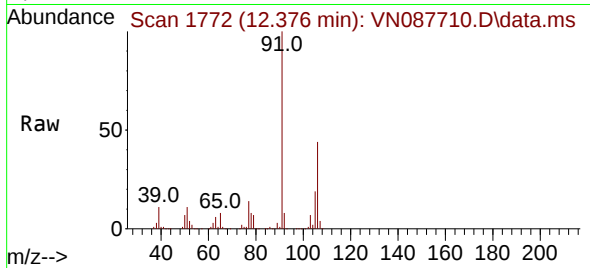




#70
Styrene
Concen: 0.943 ug/l
RT: 12.376 min Scan# 11
Delta R.T. -0.012 min
Lab File: VN087710.D
Acq: 02 Sep 2025 13:36

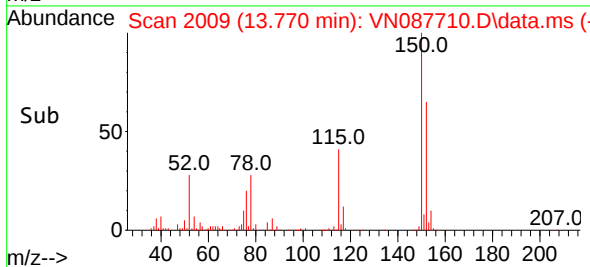
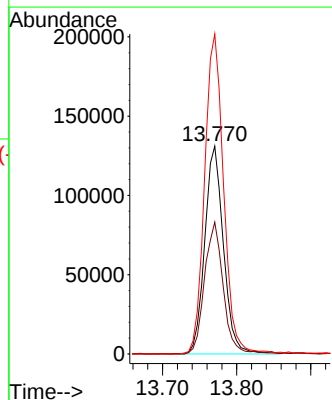
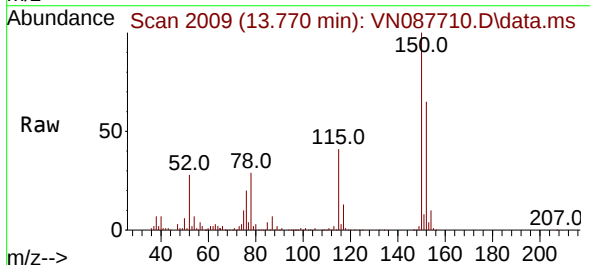
Instrument :
MSVOA_N
ClientSampleId :
309DL

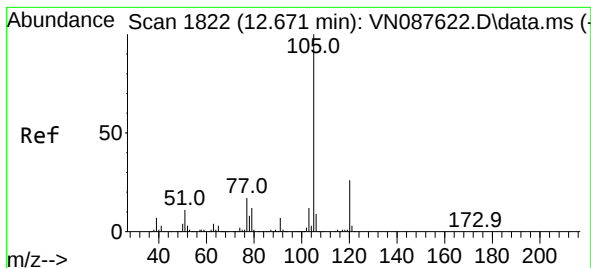
Tgt Ion:104 Resp: 11451
Ion Ratio Lower Upper
104 100
78 309.2 42.2 63.2#
103 256.0 43.4 65.2#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.770 min Scan# 2009
Delta R.T. 0.006 min
Lab File: VN087710.D
Acq: 02 Sep 2025 13:36

Tgt Ion:152 Resp: 230615
Ion Ratio Lower Upper
152 100
115 63.1 32.3 96.8
150 155.5 0.0 351.0





#73

Isopropylbenzene

Concen: 0.343 ug/l

RT: 12.676 min Scan# 1822

Delta R.T. 0.006 min

Lab File: VN087710.D

Acq: 02 Sep 2025 13:36

Instrument :

MSVOA_N

ClientSampleId :

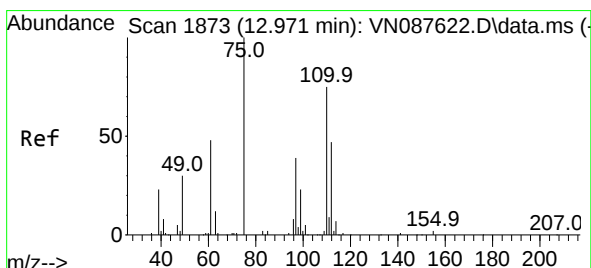
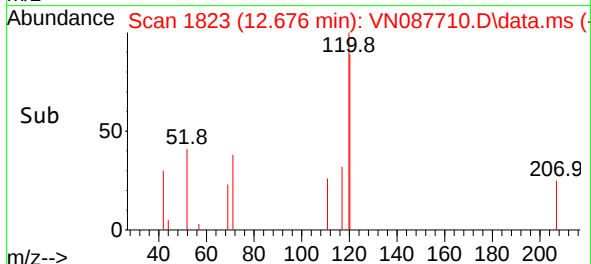
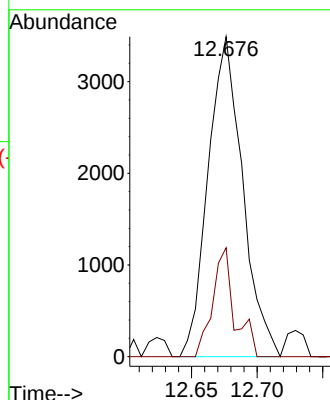
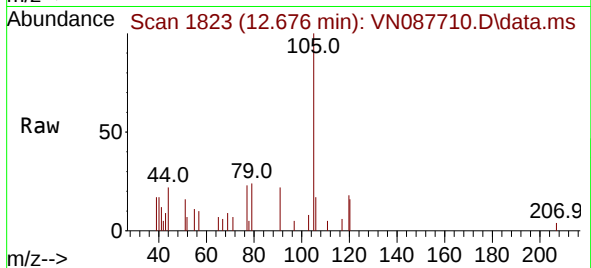
309DL

Tgt Ion:105 Resp: 6383

Ion Ratio Lower Upper

105 100

120 21.6 12.8 38.3



#76

1,2,3-Trichloropropane

Concen: 24.866 ug/l

RT: 12.829 min Scan# 1849

Delta R.T. -0.141 min

Lab File: VN087710.D

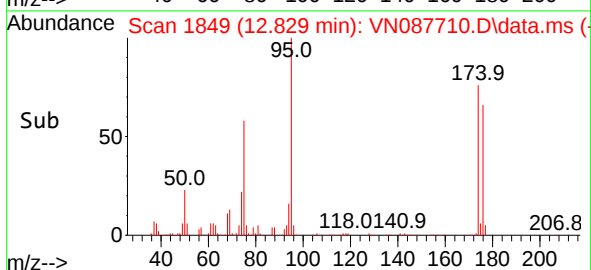
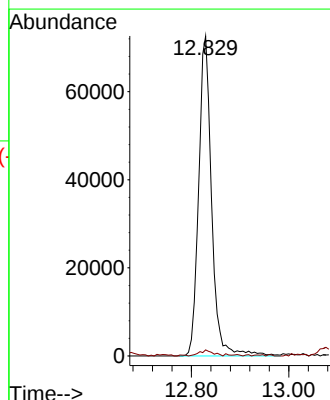
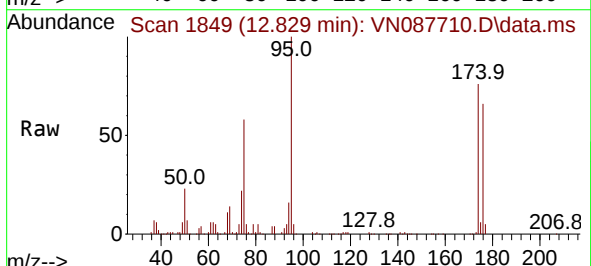
Acq: 02 Sep 2025 13:36

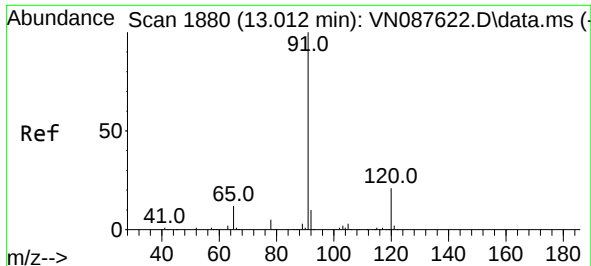
Tgt Ion: 75 Resp: 134476

Ion Ratio Lower Upper

75 100

77 1.9 89.1 267.4#

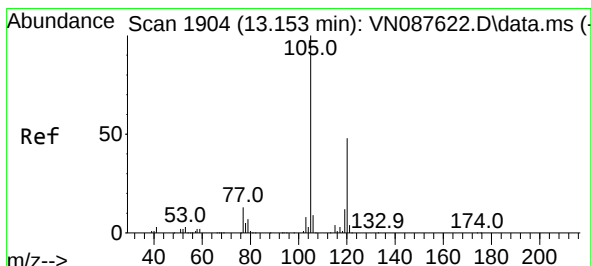
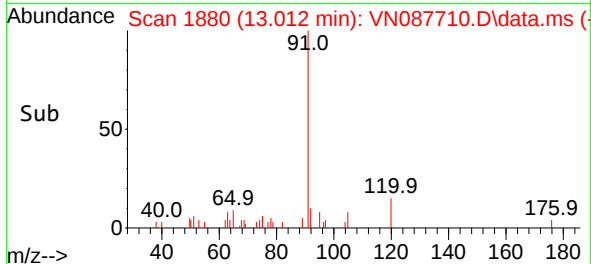
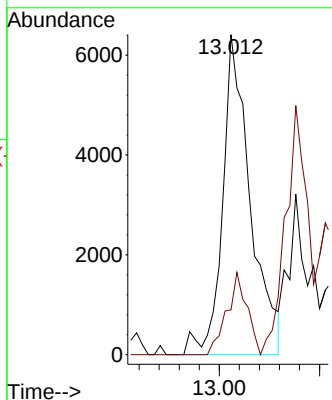
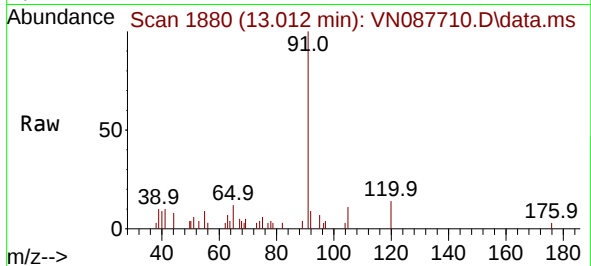




#78
n-propylbenzene
Concen: 0.536 ug/l
RT: 13.012 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN087710.D
Acq: 02 Sep 2025 13:36

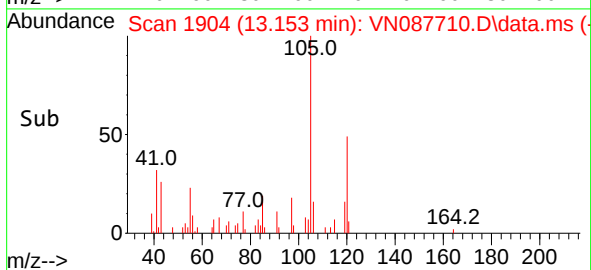
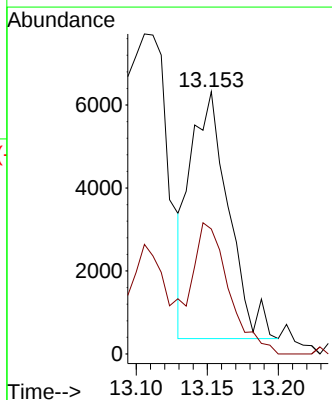
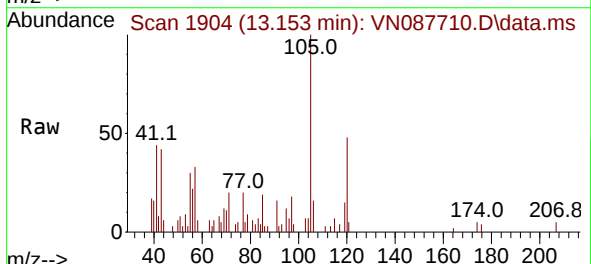
Instrument :
MSVOA_N
ClientSampleId :
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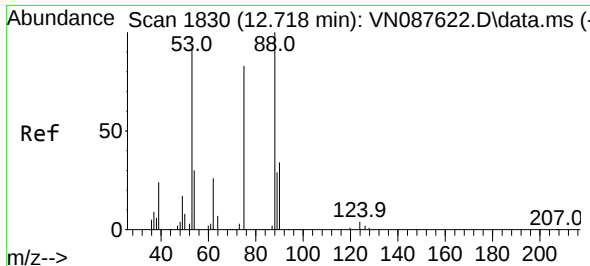
Tgt Ion: 91 Resp: 12296
Ion Ratio Lower Upper
91 100
120 18.7 10.7 32.1



#80
1,3,5-Trimethylbenzene
Concen: 0.704 ug/l
RT: 13.153 min Scan# 1904
Delta R.T. -0.000 min
Lab File: VN087710.D
Acq: 02 Sep 2025 13:36

Tgt Ion: 105 Resp: 11131
Ion Ratio Lower Upper
105 100
120 47.2 23.2 69.6

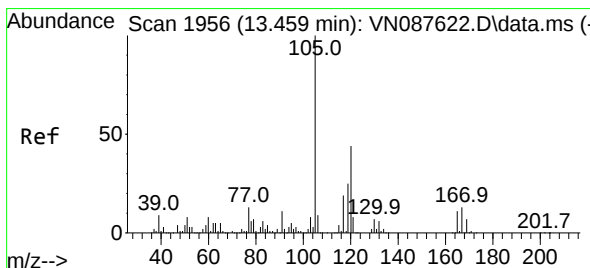
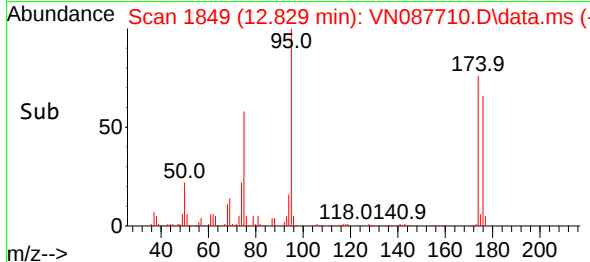
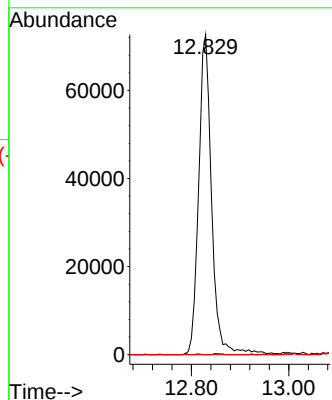
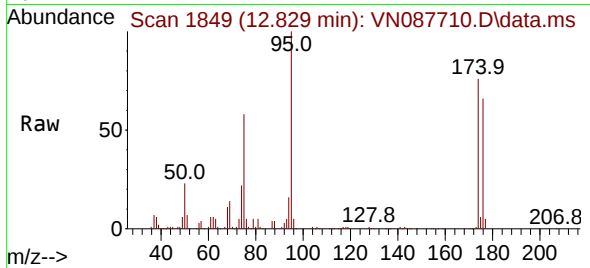




#81
trans-1,4-Dichloro-2-butene
Concen: 65.830 ug/l
RT: 12.829 min Scan# 1830
Delta R.T. 0.112 min
Lab File: VN087710.D
Acq: 02 Sep 2025 13:36

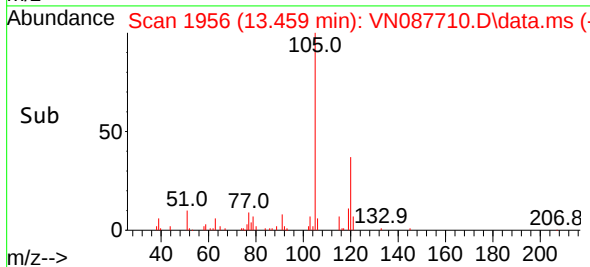
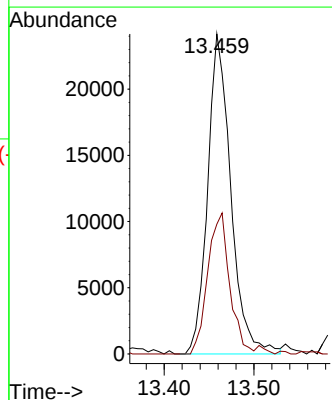
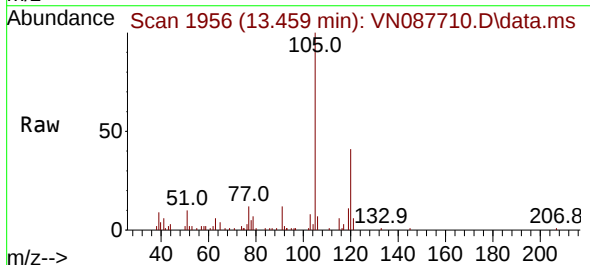
Instrument :
MSVOA_N
ClientSampleId :
309DL

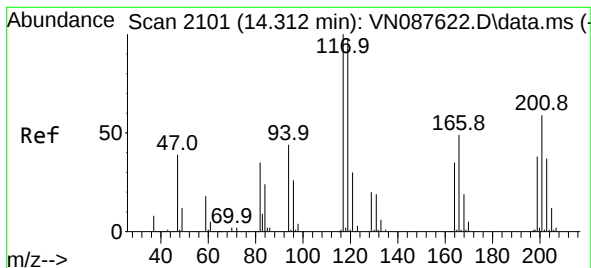
Tgt Ion: 75 Resp: 134476
Ion Ratio Lower Upper
75 100
53 0.2 101.8 152.6#
89 0.0 35.6 53.4#



#84
1,2,4-Trimethylbenzene
Concen: 2.739 ug/l
RT: 13.459 min Scan# 1956
Delta R.T. -0.000 min
Lab File: VN087710.D
Acq: 02 Sep 2025 13:36

Tgt Ion: 105 Resp: 43344
Ion Ratio Lower Upper
105 100
120 41.7 22.0 66.0





#90

Hexachloroethane

Concen: 0.576 ug/l

RT: 14.312 min Scan# 2101

Delta R.T. -0.000 min

Lab File: VN087710.D

Acq: 02 Sep 2025 13:36

Instrument :

MSVOA_N

ClientSampleId :

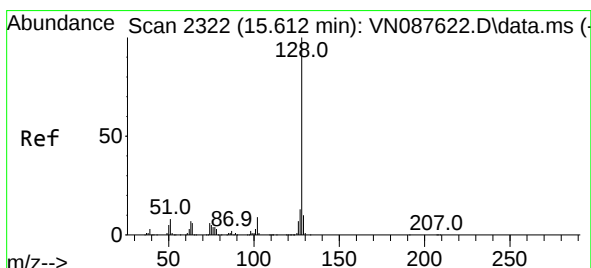
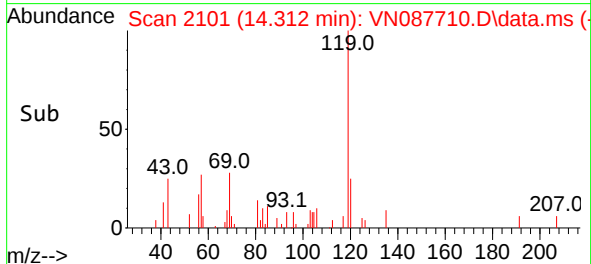
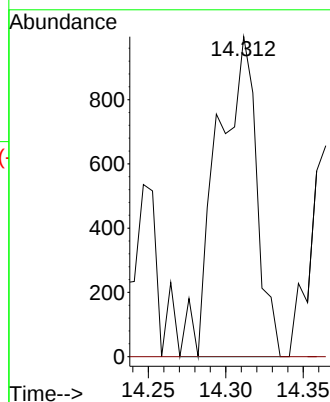
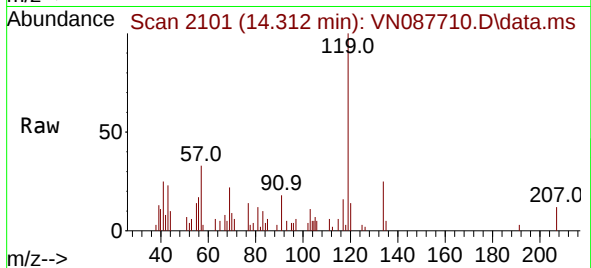
309DL

Tgt Ion:117 Resp: 1773

Ion Ratio Lower Upper

117 100

201 0.0 29.1 87.4#



#95

Naphthalene

Concen: 0.691 ug/l

RT: 15.623 min Scan# 2324

Delta R.T. 0.012 min

Lab File: VN087710.D

Acq: 02 Sep 2025 13:36

Tgt Ion:128 Resp: 12070

Ion Ratio Lower Upper

128 100

127 16.2 10.6 15.8#

129 6.7 8.6 12.8#

