

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061625\
 Data File : VN087035.D
 Acq On : 16 Jun 2025 16:37
 Operator : JC\MD
 Sample : Q2299-17
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RE134D3-20250610

Quant Time: Jun 17 07:25:50 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)

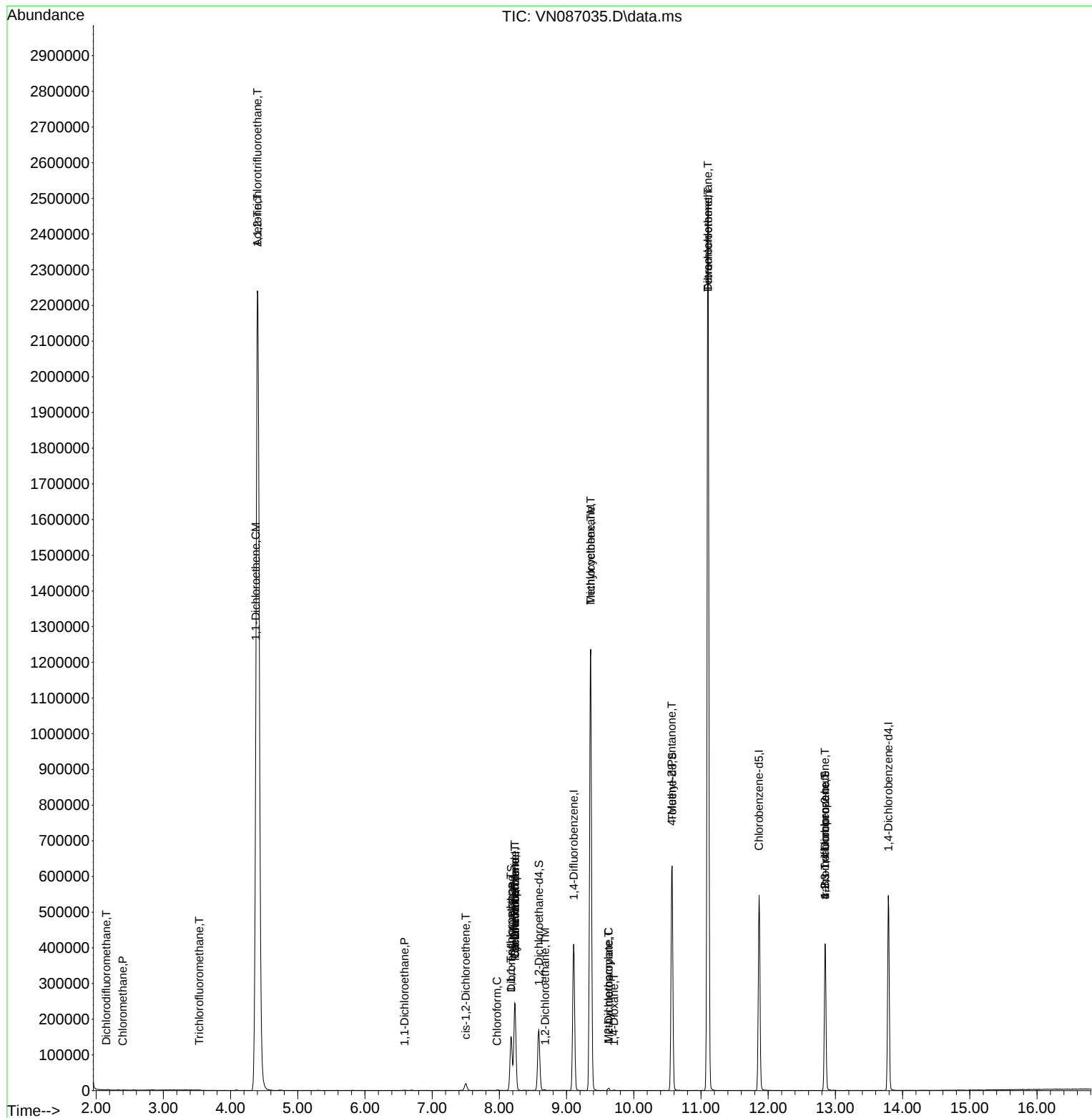
Internal Standards						
1) Pentafluorobenzene	8.236	168	194213	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	382353	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	344228	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	162344	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	139461	53.633	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 107.260%			
35) Dibromofluoromethane	8.177	113	117345	51.787	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 103.580%			
50) Toluene-d8	10.571	98	470679	52.472	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 104.940%			
62) 4-Bromofluorobenzene	12.847	95	164461	49.348	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 98.700%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.154	85	459	0.237	ug/l #	42
3) Chloromethane	2.395	50	827	0.331	ug/l	99
7) Trichlorofluoromethane	3.536	101	737	0.219	ug/l	96
9) 1,1,2-Trichlorotrifluo...	4.400	101	1794131	847.348	ug/l	99
12) 1,1-Dichloroethene	4.377	96	11454	5.299	ug/l #	75
16) Acetone	4.400	43	14957	10.847	ug/l #	85
24) 1,1-Dichloroethane	6.589	63	1746	0.401	ug/l #	81
27) cis-1,2-Dichloroethene	7.500	96	12801	4.451	ug/l	89
30) Chloroform	7.965	83	1805	0.416	ug/l #	82
31) Cyclohexane	8.230	56	3515	0.833	ug/l #	1
32) 1,1,1-Trichloroethane	8.171	97	1046	0.283	ug/l #	23
36) 1,1-Dichloropropene	8.230	75	14125	4.183	ug/l #	48
38) Carbon Tetrachloride	8.230	117	18807	5.674	ug/l #	17
39) Methylcyclohexane	9.359	83	5703	1.233	ug/l #	1
42) 1,2-Dichloroethane	8.683	62	1740	0.520	ug/l #	72
44) Trichloroethene	9.359	130	491001	187.546	ug/l	97
45) 1,2-Dichloropropane	9.624	63	3139	1.169	ug/l	98
48) Methyl methacrylate	9.624	41	1485	0.468	ug/l #	33
49) 1,4-Dioxane	9.706	88	1109	19.199	ug/l #	92
51) 4-Methyl-2-Pentanone	10.565	43	1442	0.347	ug/l #	1
60) Dibromochloromethane	11.106	129	604963	223.641	ug/l #	11
64) Tetrachloroethene	11.106	164	616337	282.918	ug/l	97
76) 1,2,3-Trichloropropane	12.847	75	74676	19.351	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	74676	44.546	ug/l #	16

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

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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

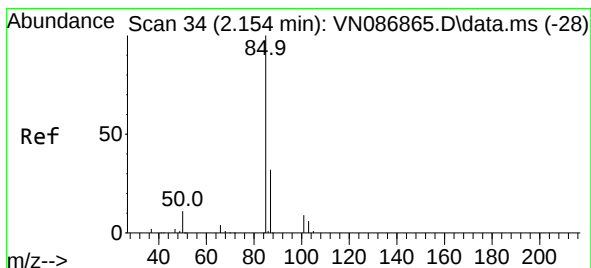
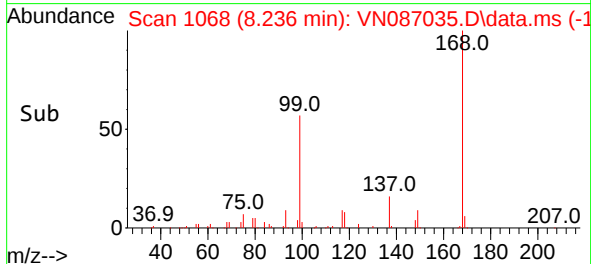
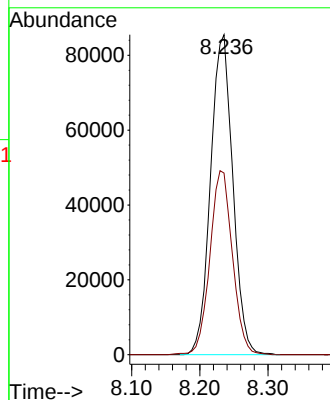
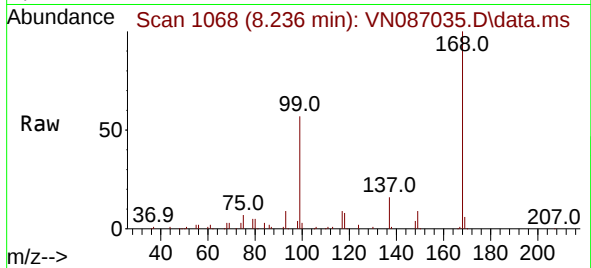




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.236 min Scan# 1068
Delta R.T. -0.000 min
Lab File: VN087035.D
Acq: 16 Jun 2025 16:37

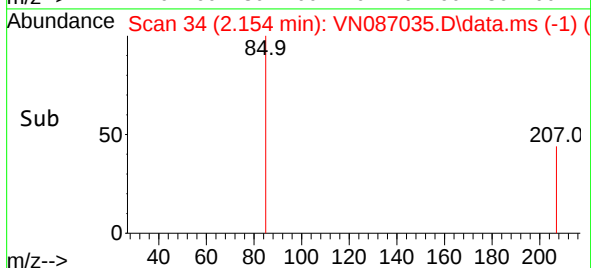
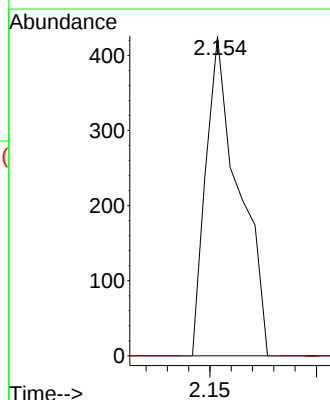
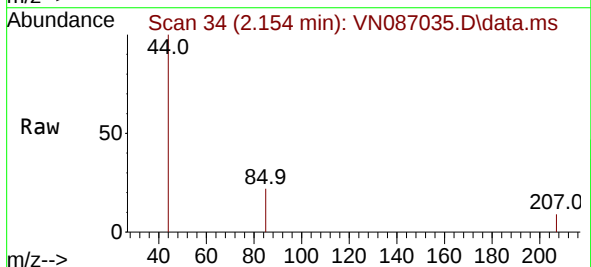
Instrument :
MSVOA_N
ClientSampleId :
RE134D3-20250610

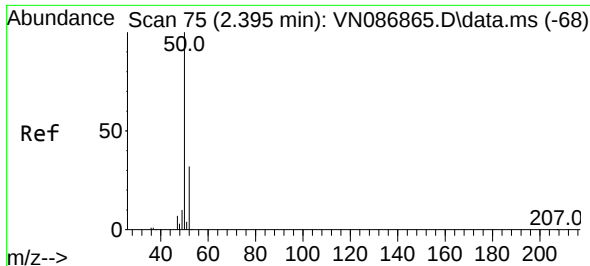
Tgt Ion:168 Resp: 194213
Ion Ratio Lower Upper
168 100
99 56.7 49.1 73.7



#2
Dichlorodifluoromethane
Concen: 0.237 ug/l
RT: 2.154 min Scan# 34
Delta R.T. -0.000 min
Lab File: VN087035.D
Acq: 16 Jun 2025 16:37

Tgt Ion: 85 Resp: 459
Ion Ratio Lower Upper
85 100
87 0.0 16.2 48.6#

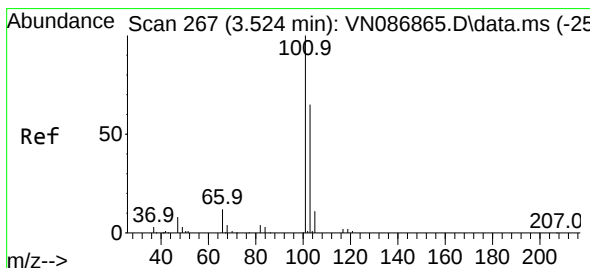
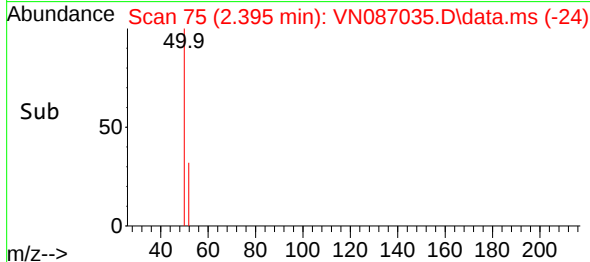
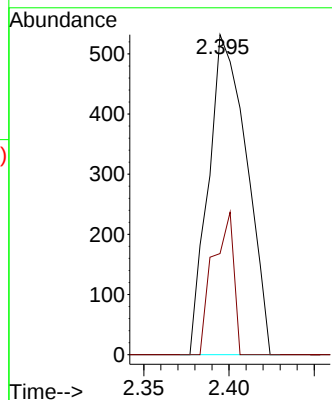
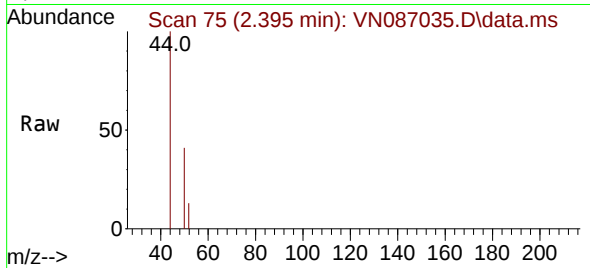




#3
Chloromethane
Concen: 0.331 ug/l
RT: 2.395 min Scan# 75
Delta R.T. -0.000 min
Lab File: VN087035.D
Acq: 16 Jun 2025 16:37

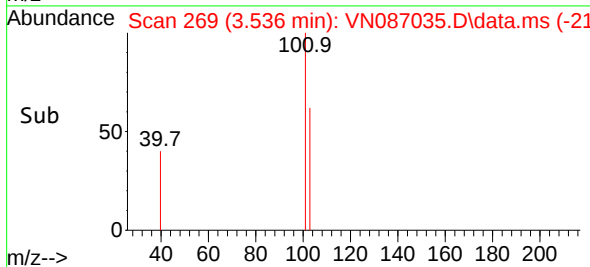
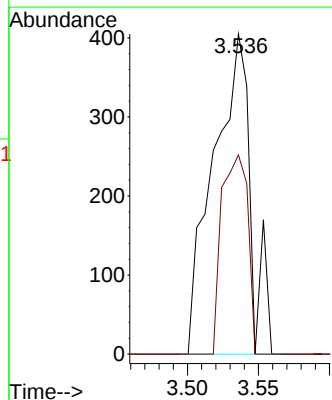
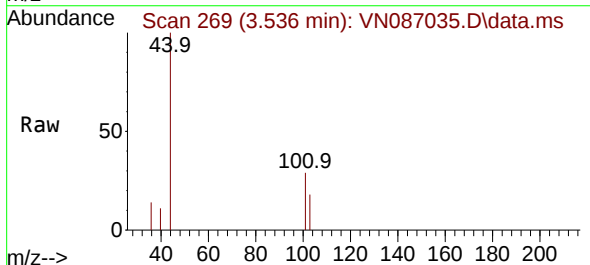
Instrument :
MSVOA_N
ClientSampleId :
RE134D3-20250610

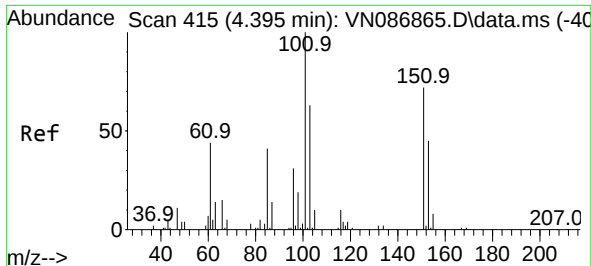
Tgt Ion: 50 Resp: 827
Ion Ratio Lower Upper
50 100
52 31.6 25.7 38.5



#7
Trichlorofluoromethane
Concen: 0.219 ug/l
RT: 3.536 min Scan# 269
Delta R.T. 0.012 min
Lab File: VN087035.D
Acq: 16 Jun 2025 16:37

Tgt Ion: 101 Resp: 737
Ion Ratio Lower Upper
101 100
103 62.2 52.2 78.2

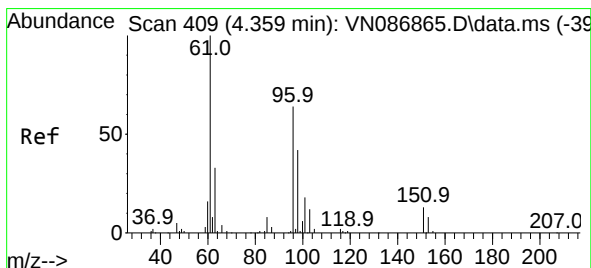
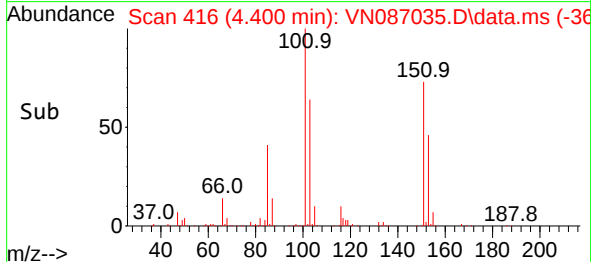
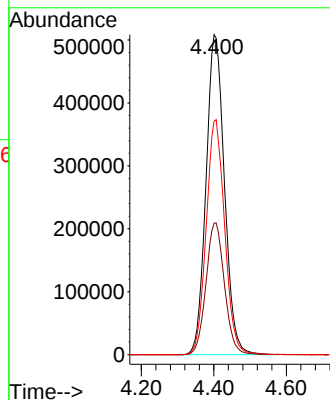
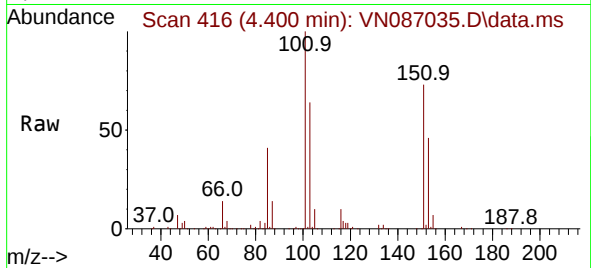




#9
1,1,2-Trichlorotrifluoroethane
Concen: 847.348 ug/l
RT: 4.400 min Scan# 415
Delta R.T. 0.006 min
Lab File: VN087035.D
Acq: 16 Jun 2025 16:37

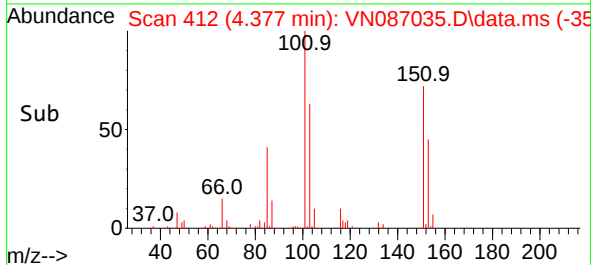
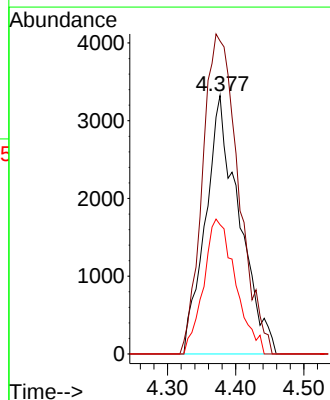
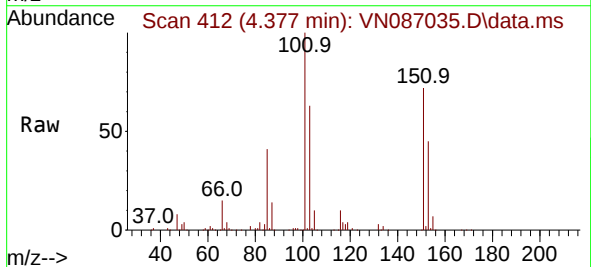
Instrument :
MSVOA_N
ClientSampleId :
RE134D3-20250610

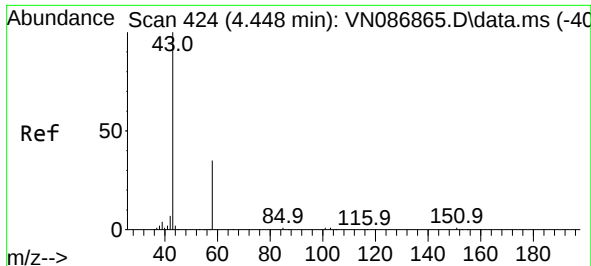
Tgt Ion:101 Resp: 1794131
Ion Ratio Lower Upper
101 100
85 41.3 33.8 50.8
151 73.5 58.7 88.1



#12
1,1-Dichloroethene
Concen: 5.299 ug/l
RT: 4.377 min Scan# 412
Delta R.T. 0.018 min
Lab File: VN087035.D
Acq: 16 Jun 2025 16:37

Tgt Ion: 96 Resp: 11454
Ion Ratio Lower Upper
96 100
61 121.1 125.8 188.6#
98 50.0 52.5 78.7#

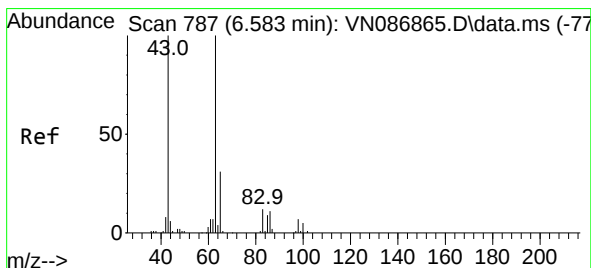
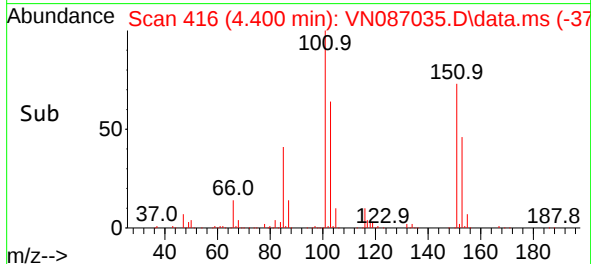
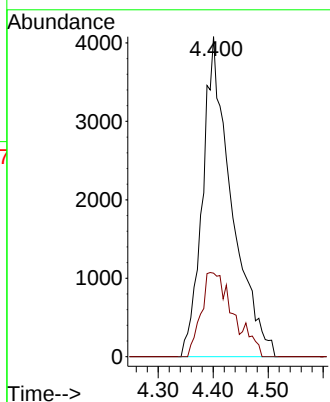
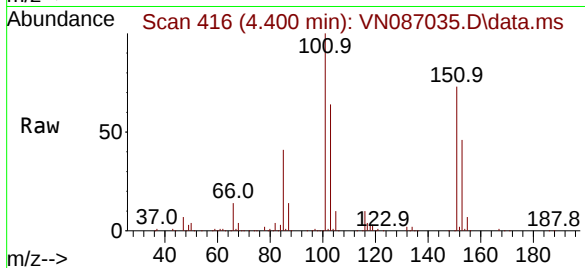




#16
Acetone
Concen: 10.847 ug/l
RT: 4.400 min Scan# 416
Delta R.T. -0.047 min
Lab File: VN087035.D
Acq: 16 Jun 2025 16:37

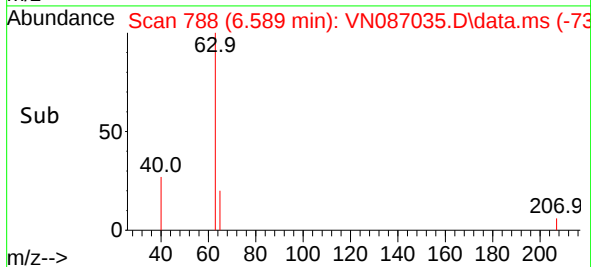
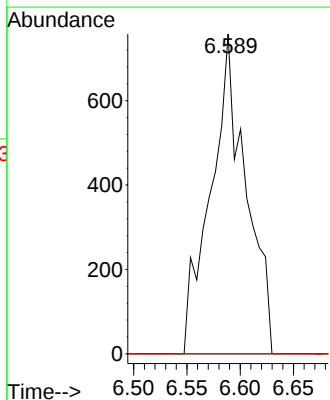
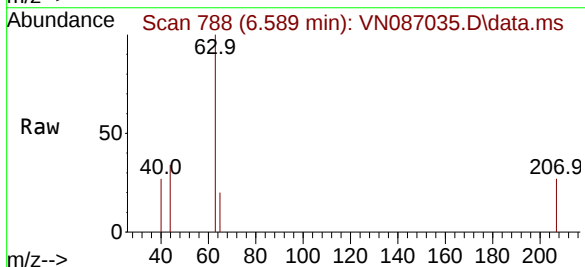
Instrument :
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ClientSampleId :
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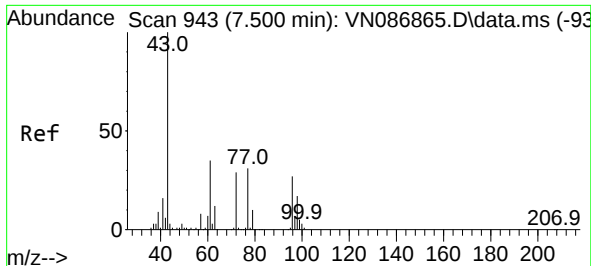
Tgt Ion: 43 Resp: 14957
Ion Ratio Lower Upper
43 100
58 26.1 28.0 42.0#



#24
1,1-Dichloroethane
Concen: 0.401 ug/l
RT: 6.589 min Scan# 788
Delta R.T. 0.006 min
Lab File: VN087035.D
Acq: 16 Jun 2025 16:37

Tgt Ion: 63 Resp: 1746
Ion Ratio Lower Upper
63 100
98 0.0 3.6 10.8#
100 0.0 2.6 7.8#

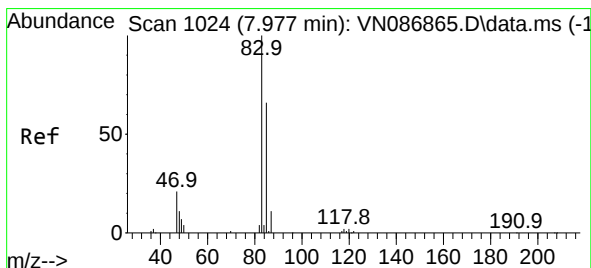
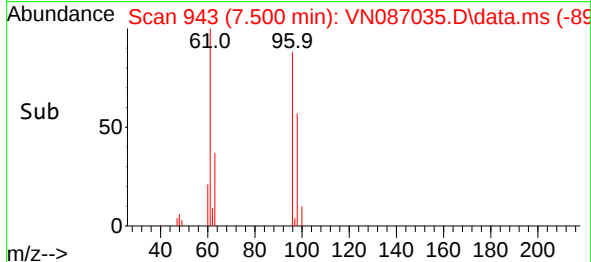
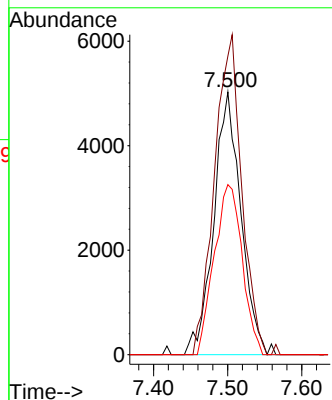
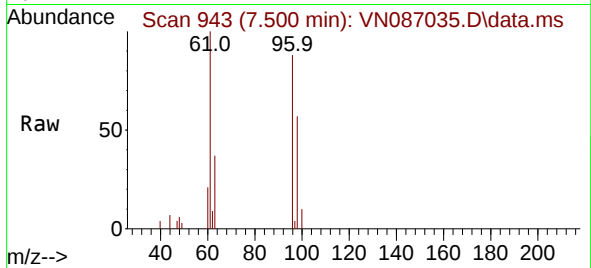




#27
 cis-1,2-Dichloroethene
 Concen: 4.451 ug/l
 RT: 7.500 min Scan# 94
 Delta R.T. -0.000 min
 Lab File: VN087035.D
 Acq: 16 Jun 2025 16:37

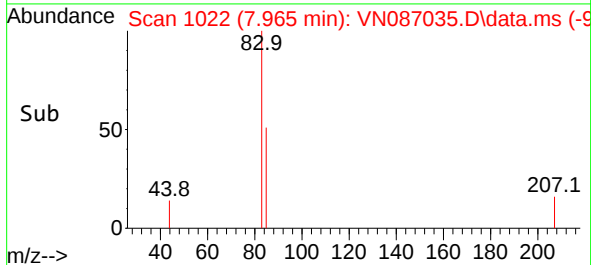
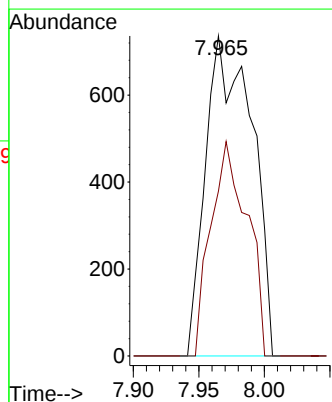
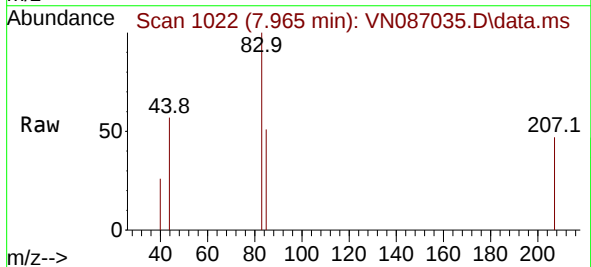
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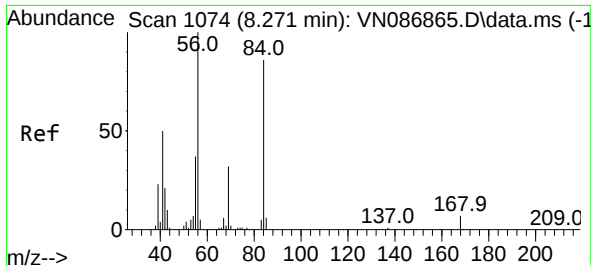
Tgt Ion: 96 Resp: 12801
 Ion Ratio Lower Upper
 96 100
 61 122.2 0.0 278.0
 98 66.6 0.0 128.2



#30
 Chloroform
 Concen: 0.416 ug/l
 RT: 7.965 min Scan# 1022
 Delta R.T. -0.012 min
 Lab File: VN087035.D
 Acq: 16 Jun 2025 16:37

Tgt Ion: 83 Resp: 1805
 Ion Ratio Lower Upper
 83 100
 85 51.5 52.9 79.3#

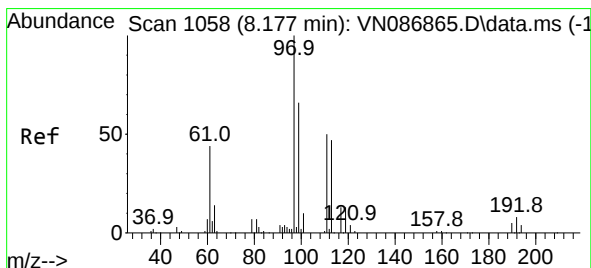
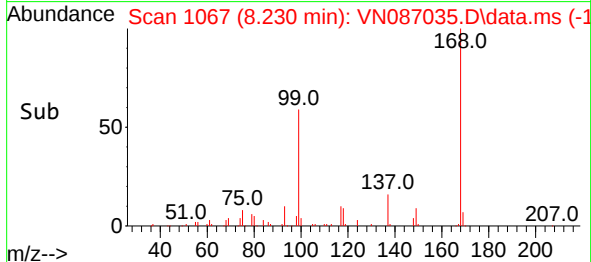
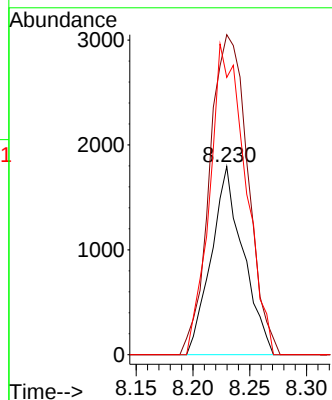
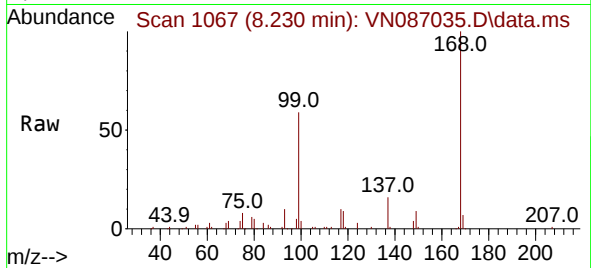




#31
Cyclohexane
Concen: 0.833 ug/l
RT: 8.230 min Scan# 1057
Delta R.T. -0.041 min
Lab File: VN087035.D
Acq: 16 Jun 2025 16:37

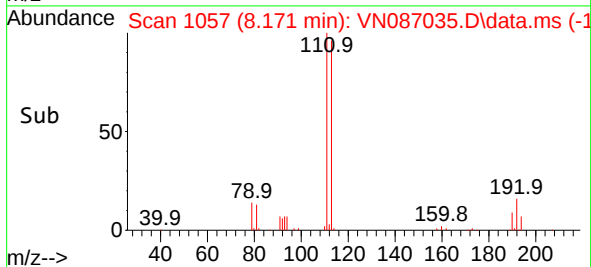
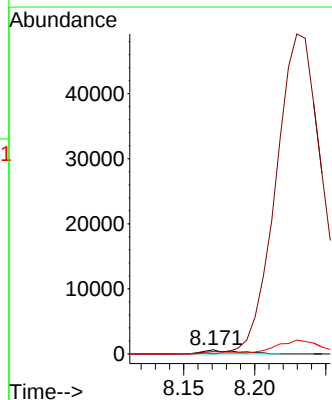
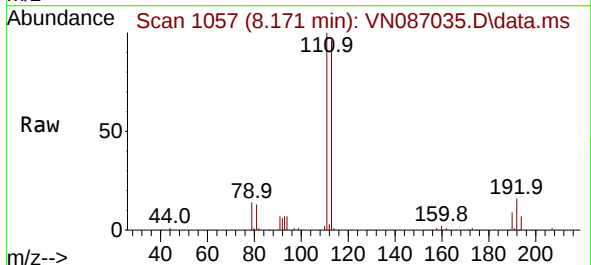
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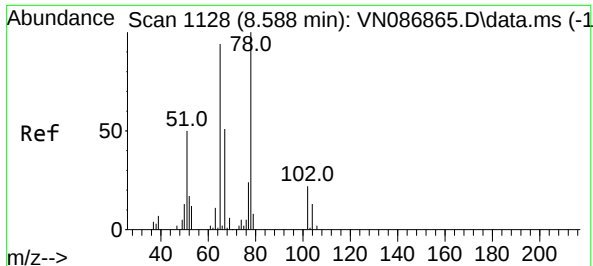
Tgt Ion: 56 Resp: 3515
Ion Ratio Lower Upper
56 100
69 170.1 25.4 38.0#
84 147.4 68.8 103.2#



#32
1,1,1-Trichloroethane
Concen: 0.283 ug/l
RT: 8.171 min Scan# 1057
Delta R.T. -0.006 min
Lab File: VN087035.D
Acq: 16 Jun 2025 16:37

Tgt Ion: 97 Resp: 1046
Ion Ratio Lower Upper
97 100
99 0.0 52.0 78.0#
61 0.0 35.9 53.9#





#33

1,2-Dichloroethane-d4

Concen: 53.633 ug/l

RT: 8.588 min Scan# 1128

Delta R.T. -0.000 min

Lab File: VN087035.D

Acq: 16 Jun 2025 16:37

Instrument :

MSVOA_N

ClientSampleId :

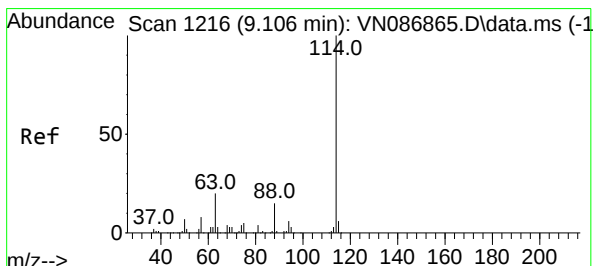
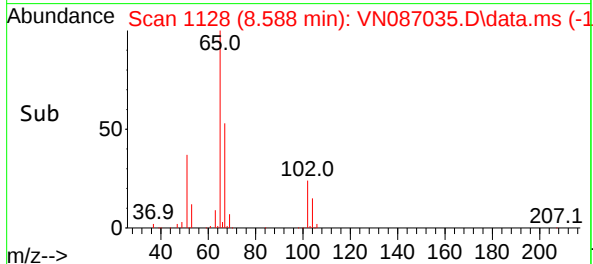
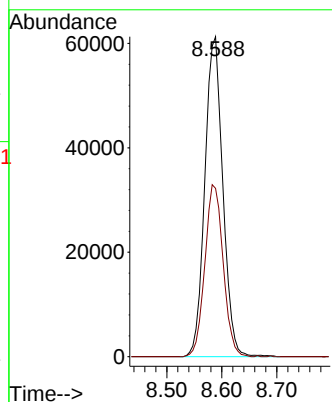
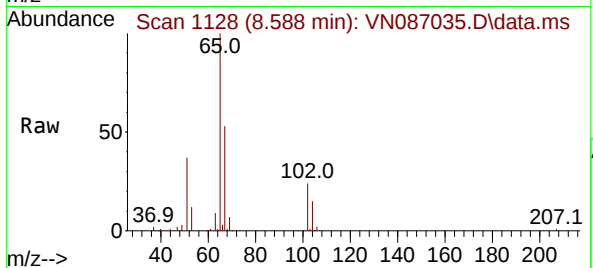
RE134D3-20250610

Tgt Ion: 65 Resp: 139461

Ion Ratio Lower Upper

65 100

67 54.6 0.0 105.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. -0.000 min

Lab File: VN087035.D

Acq: 16 Jun 2025 16:37

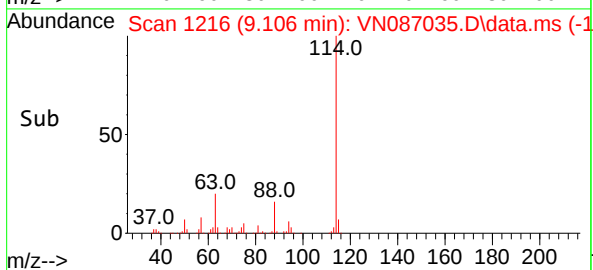
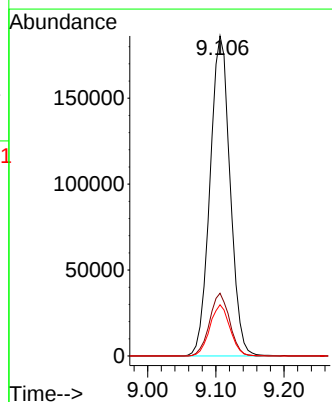
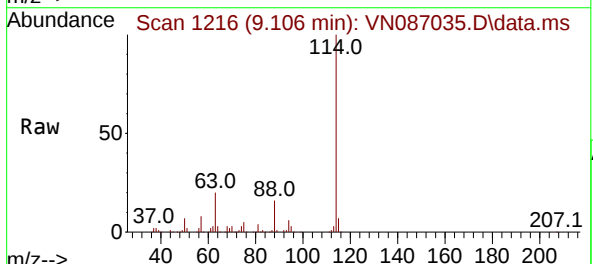
Tgt Ion: 114 Resp: 382353

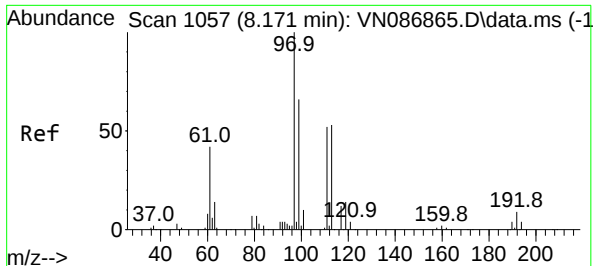
Ion Ratio Lower Upper

114 100

63 19.6 0.0 39.6

88 16.0 0.0 30.2

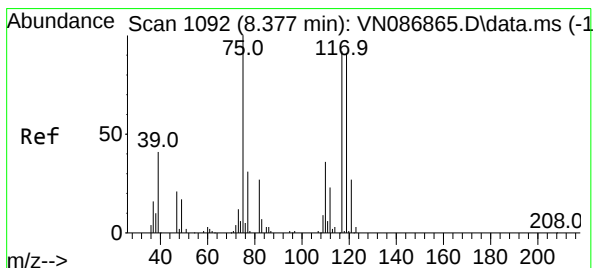
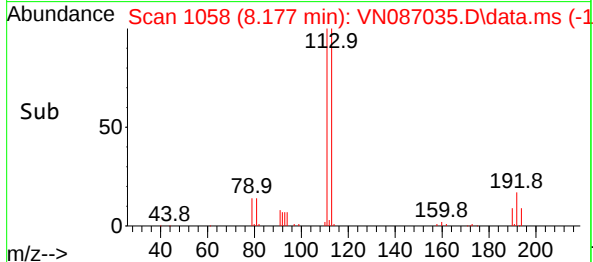
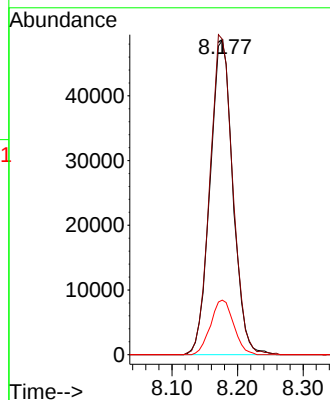
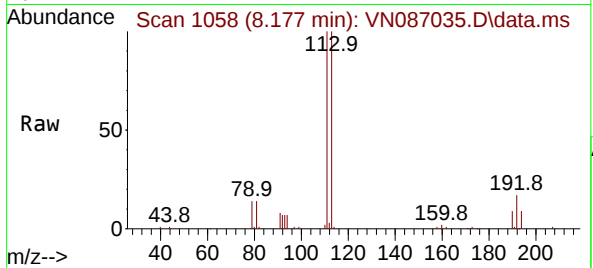




#35
Dibromofluoromethane
Concen: 51.787 ug/l
RT: 8.177 min Scan# 1057
Delta R.T. 0.006 min
Lab File: VN087035.D
Acq: 16 Jun 2025 16:37

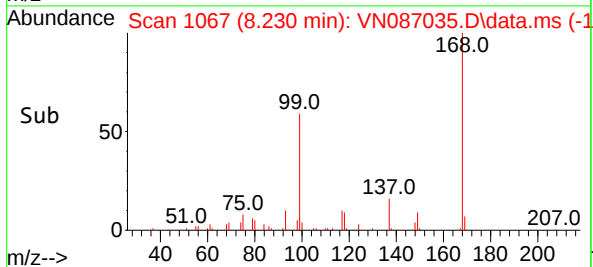
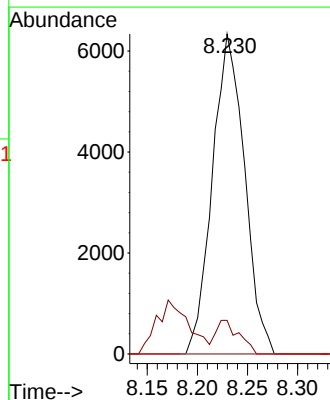
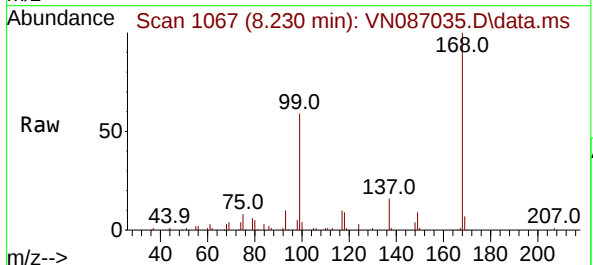
Instrument :
MSVOA_N
ClientSampleId :
RE134D3-20250610

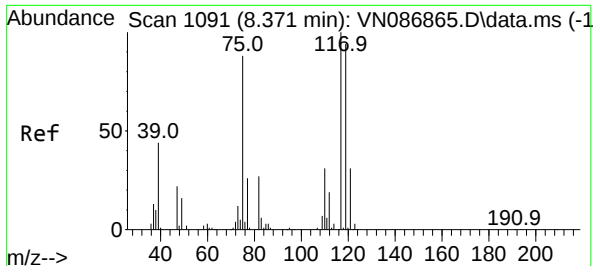
Tgt Ion:113 Resp: 117345
Ion Ratio Lower Upper
113 100
111 101.8 84.2 126.2
192 17.5 14.2 21.4



#36
1,1-Dichloropropene
Concen: 4.183 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.147 min
Lab File: VN087035.D
Acq: 16 Jun 2025 16:37

Tgt Ion: 75 Resp: 14125
Ion Ratio Lower Upper
75 100
110 7.5 17.6 52.9#
77 0.0 25.3 37.9#

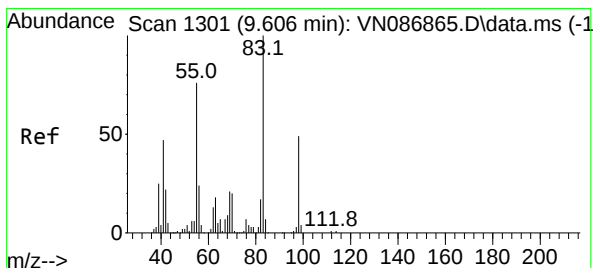
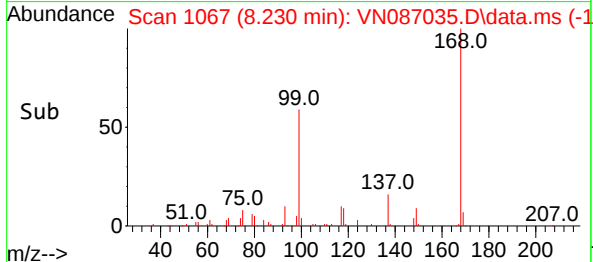
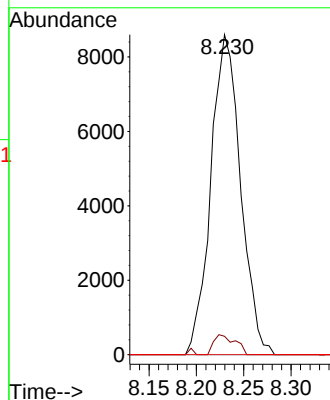
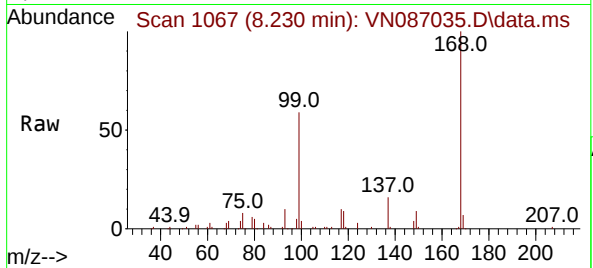




#38
Carbon Tetrachloride
Concen: 5.674 ug/l
RT: 8.230 min Scan# 11
Delta R.T. -0.141 min
Lab File: VN087035.D
Acq: 16 Jun 2025 16:37

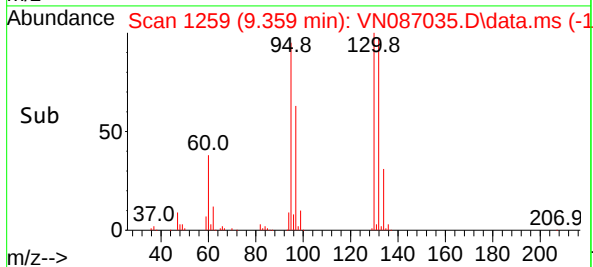
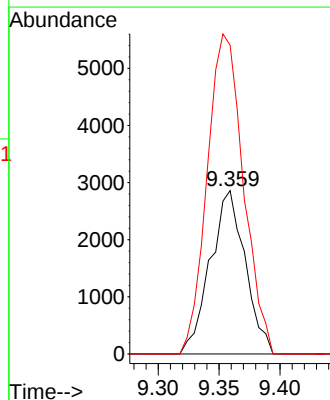
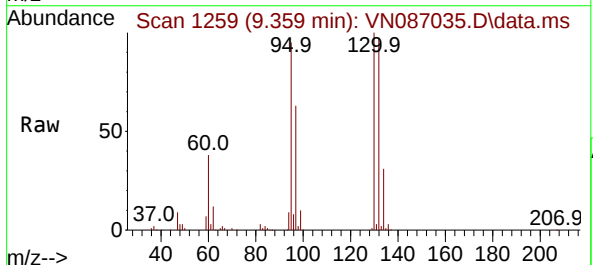
Instrument :
MSVOA_N
ClientSampleId :
RE134D3-20250610

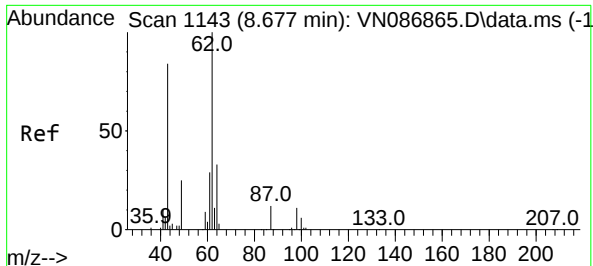
Tgt Ion:117 Resp: 18807
Ion Ratio Lower Upper
117 100
119 5.7 75.0 112.6#
121 0.0 24.9 37.3#



#39
Methylcyclohexane
Concen: 1.233 ug/l
RT: 9.359 min Scan# 1259
Delta R.T. -0.247 min
Lab File: VN087035.D
Acq: 16 Jun 2025 16:37

Tgt Ion: 83 Resp: 5703
Ion Ratio Lower Upper
83 100
55 0.0 61.0 91.6#
98 189.0 38.9 58.3#





#42

1,2-Dichloroethane

Concen: 0.520 ug/l

RT: 8.683 min Scan# 1144

Delta R.T. 0.006 min

Lab File: VN087035.D

Acq: 16 Jun 2025 16:37

Instrument :

MSVOA_N

ClientSampleId :

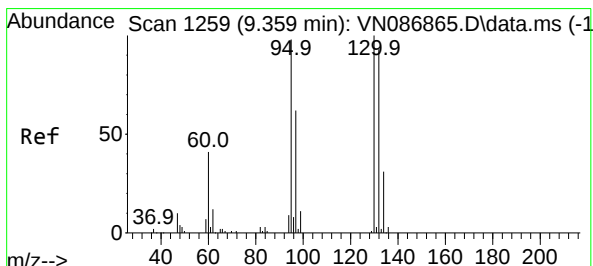
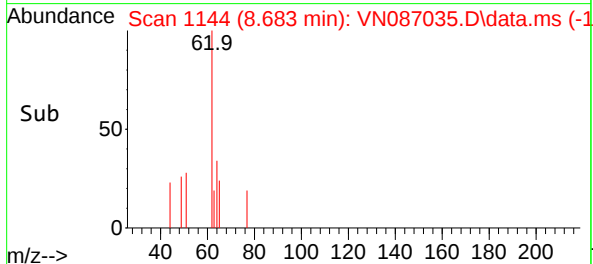
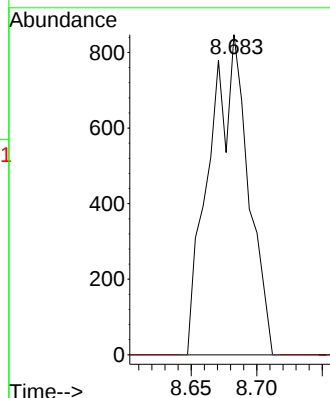
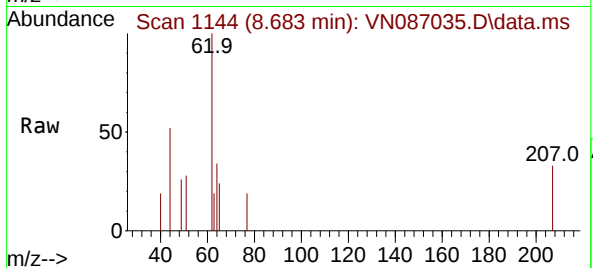
RE134D3-20250610

Tgt Ion: 62 Resp: 1740

Ion Ratio Lower Upper

62 100

98 0.0 0.0 21.2



#44

Trichloroethene

Concen: 187.546 ug/l

RT: 9.359 min Scan# 1259

Delta R.T. -0.000 min

Lab File: VN087035.D

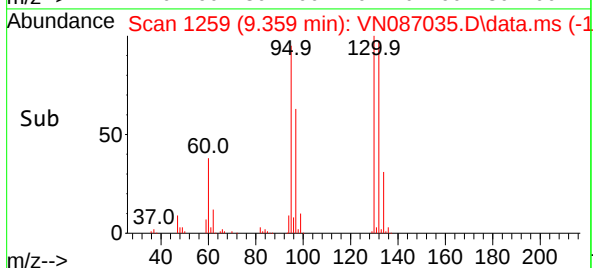
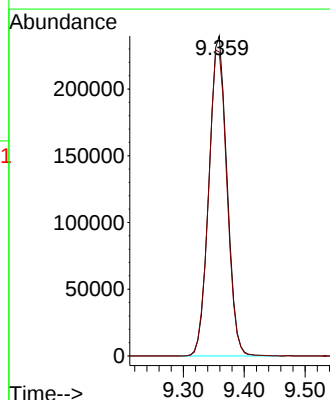
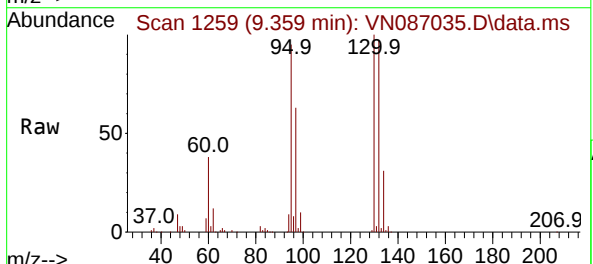
Acq: 16 Jun 2025 16:37

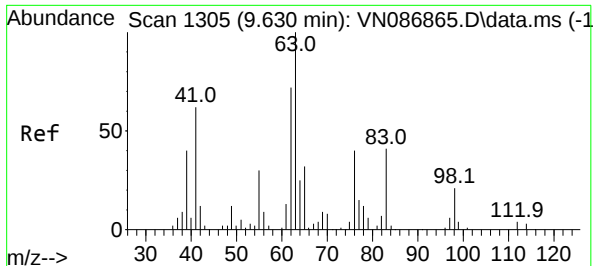
Tgt Ion:130 Resp: 491001

Ion Ratio Lower Upper

130 100

95 95.0 0.0 196.2





#45

1,2-Dichloropropane

Concen: 1.169 ug/l

RT: 9.624 min Scan# 1304

Delta R.T. -0.006 min

Lab File: VN087035.D

Acq: 16 Jun 2025 16:37

Instrument :

MSVOA_N

ClientSampleId :

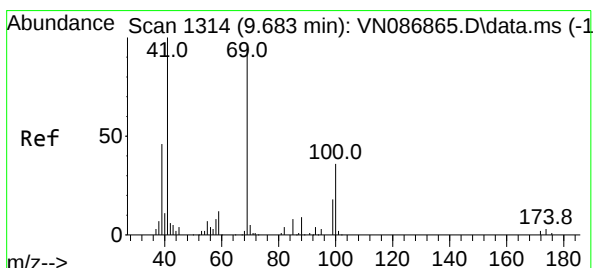
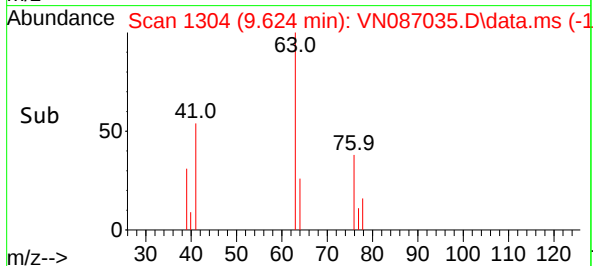
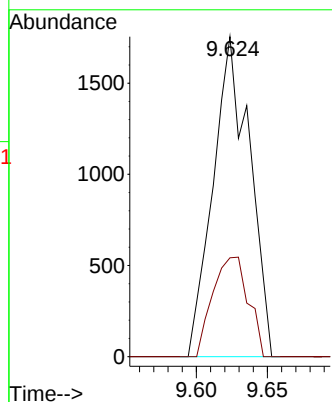
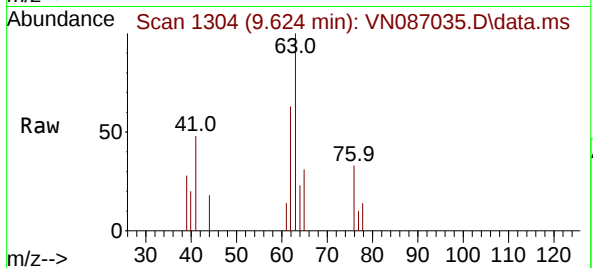
RE134D3-20250610

Tgt Ion: 63 Resp: 3139

Ion Ratio Lower Upper

63 100

65 30.9 25.5 38.3



#48

Methyl methacrylate

Concen: 0.468 ug/l

RT: 9.624 min Scan# 1304

Delta R.T. -0.059 min

Lab File: VN087035.D

Acq: 16 Jun 2025 16:37

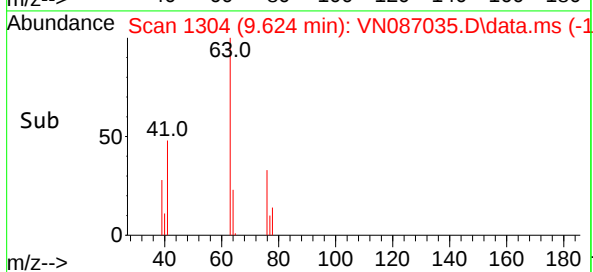
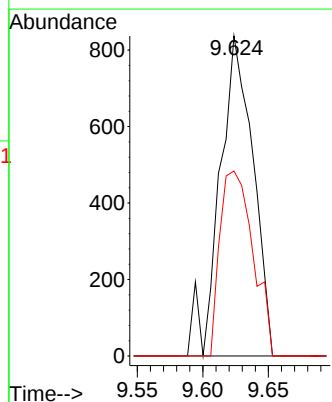
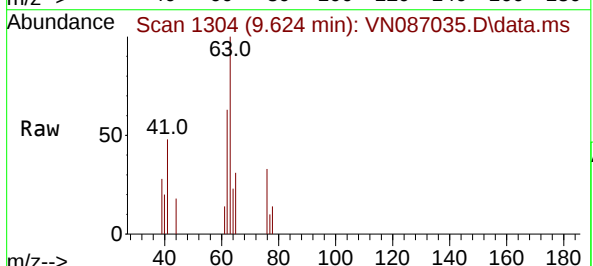
Tgt Ion: 41 Resp: 1485

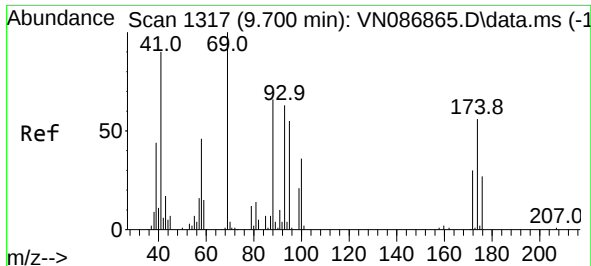
Ion Ratio Lower Upper

41 100

69 0.0 74.6 112.0#

39 57.1 40.2 60.4





#49

1,4-Dioxane

Concen: 19.199 ug/l

RT: 9.706 min Scan# 11

Delta R.T. 0.006 min

Lab File: VN087035.D

Acq: 16 Jun 2025 16:37

Instrument :

MSVOA_N

ClientSampleId :

RE134D3-20250610

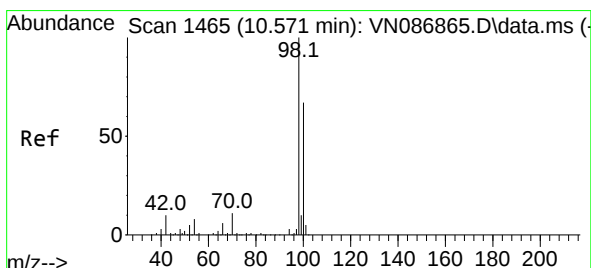
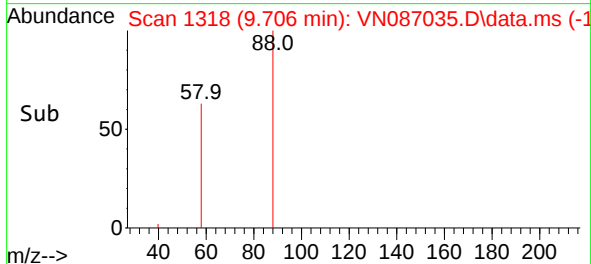
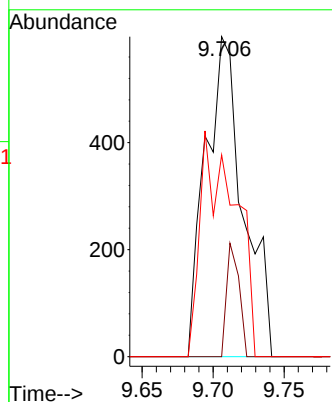
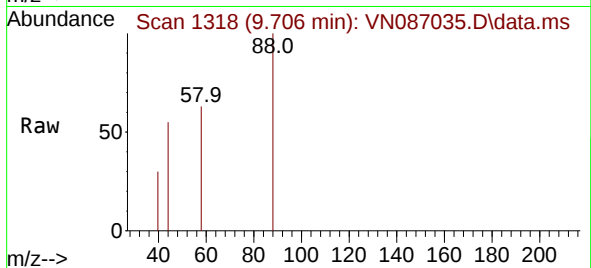
Tgt Ion: 88 Resp: 1109

Ion Ratio Lower Upper

88 100

43 11.5 0.0 0.0#

58 65.5 57.7 86.5



#50

Toluene-d8

Concen: 52.472 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. -0.000 min

Lab File: VN087035.D

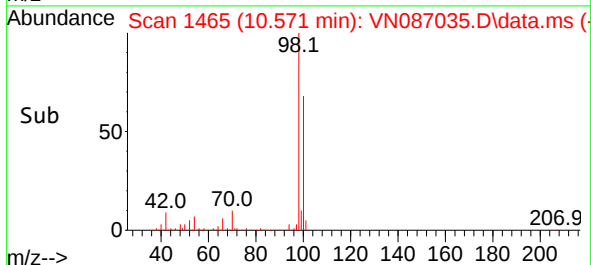
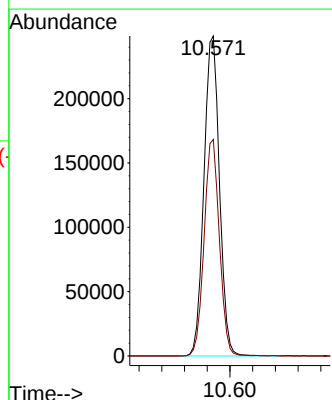
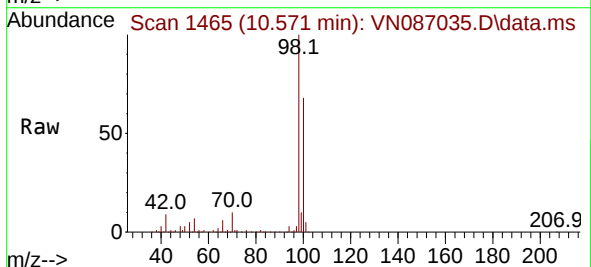
Acq: 16 Jun 2025 16:37

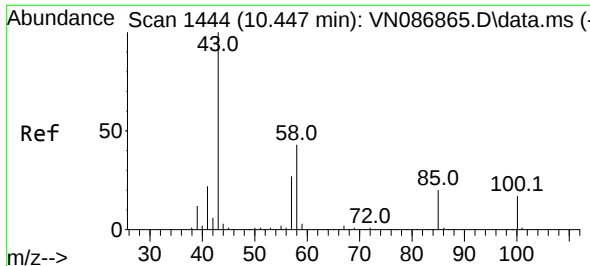
Tgt Ion: 98 Resp: 470679

Ion Ratio Lower Upper

98 100

100 66.5 53.4 80.0

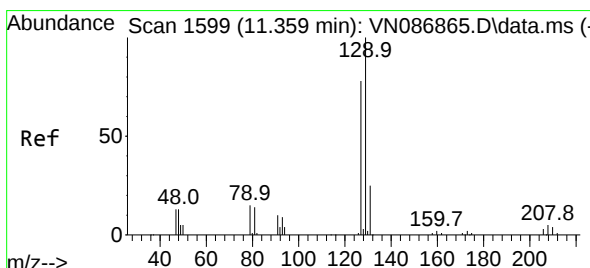
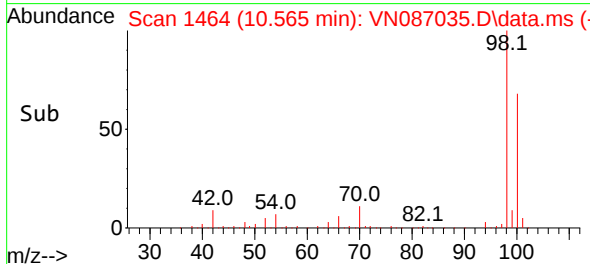
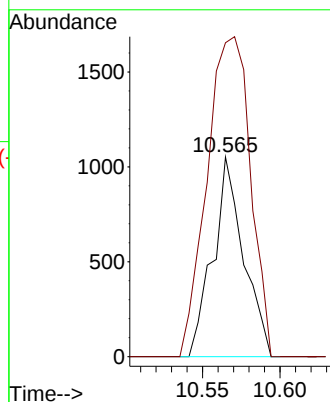
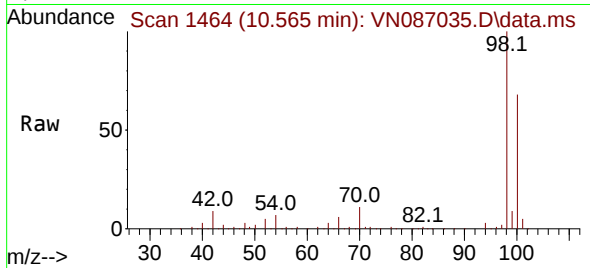




#51
4-Methyl-2-Pentanone
Concen: 0.347 ug/l
RT: 10.565 min Scan# 1442
Delta R.T. 0.118 min
Lab File: VN087035.D
Acq: 16 Jun 2025 16:37

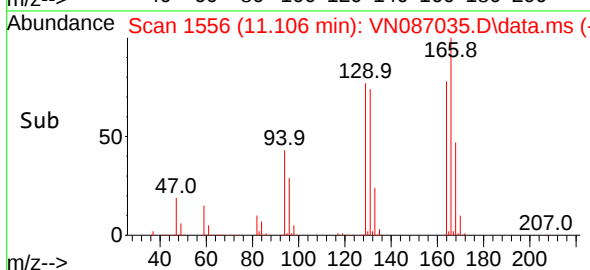
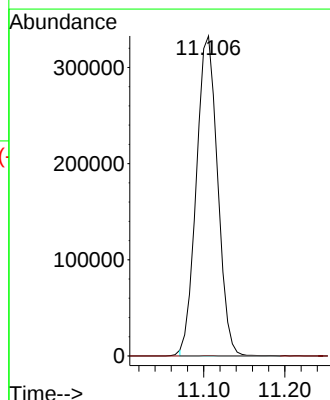
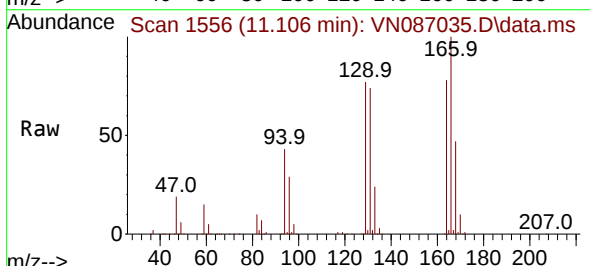
Instrument :
MSVOA_N
ClientSampleId :
RE134D3-20250610

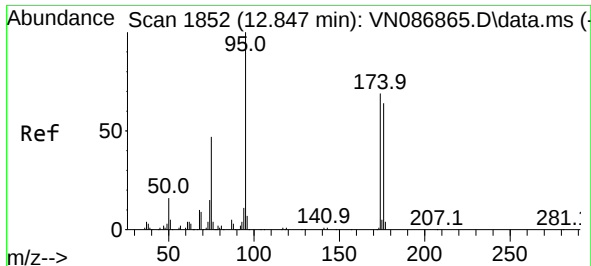
Tgt Ion: 43 Resp: 1442
Ion Ratio Lower Upper
43 100
58 227.7 34.2 51.4#



#60
Dibromochloromethane
Concen: 223.641 ug/l
RT: 11.106 min Scan# 1556
Delta R.T. -0.253 min
Lab File: VN087035.D
Acq: 16 Jun 2025 16:37

Tgt Ion: 129 Resp: 604963
Ion Ratio Lower Upper
129 100
127 0.0 38.6 115.8#

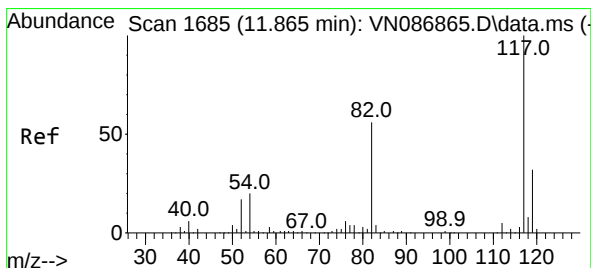
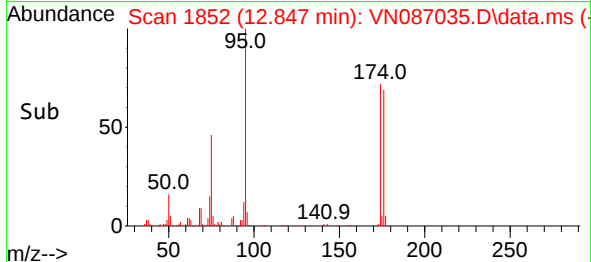
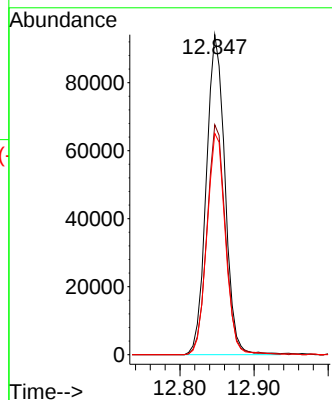
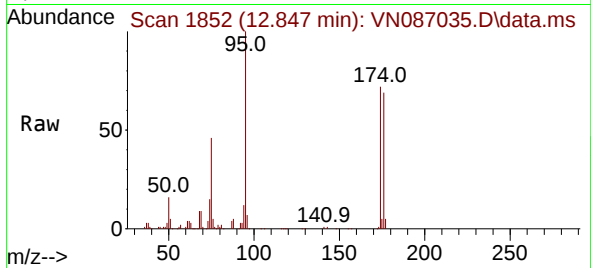




#62
4-Bromofluorobenzene
Concen: 49.348 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN087035.D
Acq: 16 Jun 2025 16:37

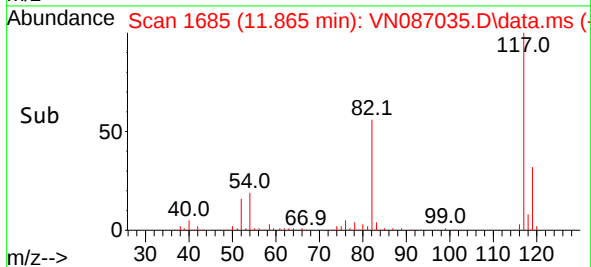
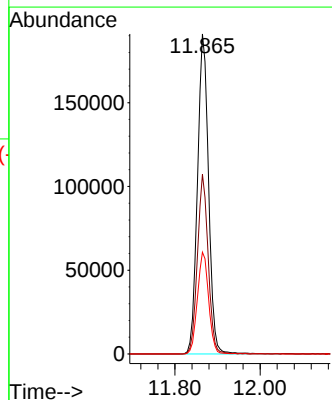
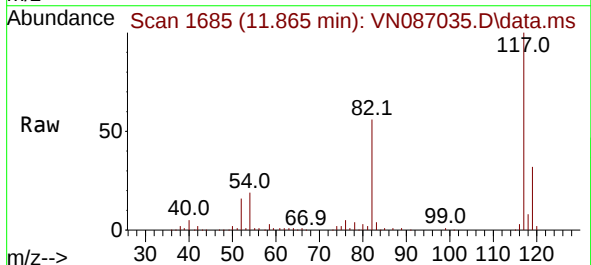
Instrument :
MSVOA_N
ClientSampleId :
RE134D3-20250610

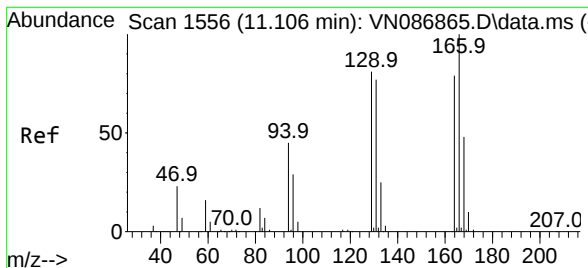
Tgt Ion:	95	Resp:	164461
Ion	Ratio	Lower	Upper
95	100		
174	71.6	0.0	141.8
176	69.0	0.0	132.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN087035.D
Acq: 16 Jun 2025 16:37

Tgt Ion:	117	Resp:	344228
Ion	Ratio	Lower	Upper
117	100		
82	56.1	44.6	67.0
119	31.8	25.5	38.3





#64

Tetrachloroethene

Concen: 282.918 ug/l

RT: 11.106 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN087035.D

Acq: 16 Jun 2025 16:37

Instrument :

MSVOA_N

ClientSampleId :

RE134D3-20250610

Tgt Ion:164 Resp: 616337

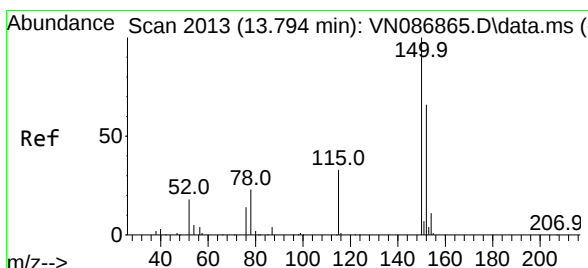
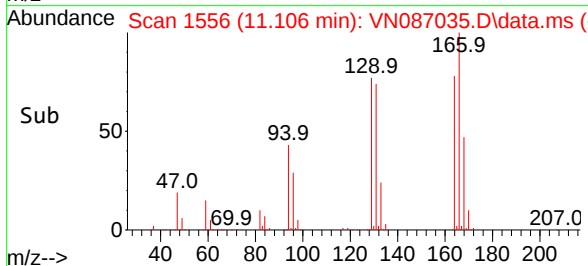
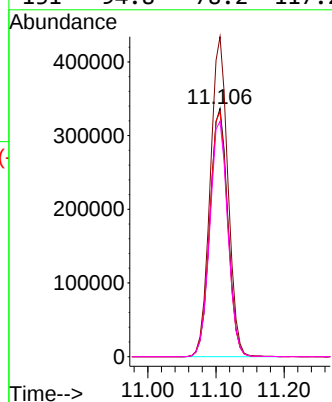
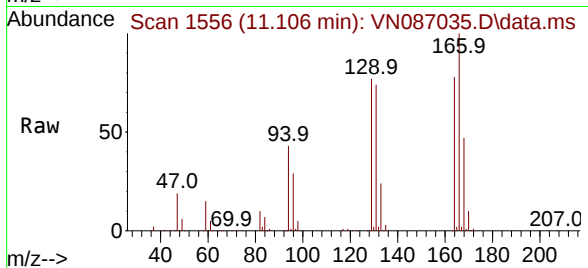
Ion Ratio Lower Upper

164 100

166 128.9 101.8 152.8

129 98.8 83.0 124.4

131 94.8 78.2 117.2



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 2012

Delta R.T. -0.006 min

Lab File: VN087035.D

Acq: 16 Jun 2025 16:37

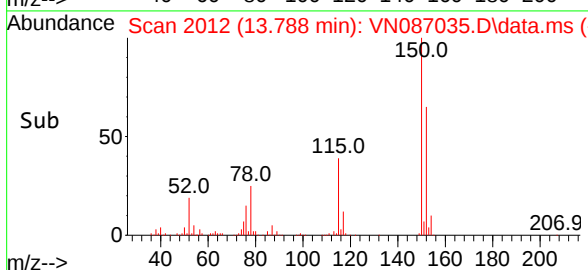
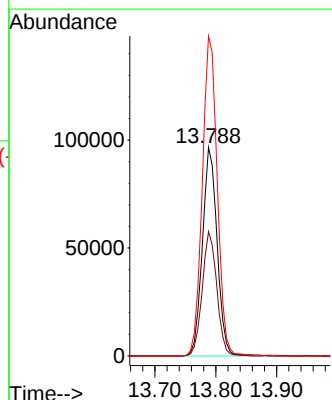
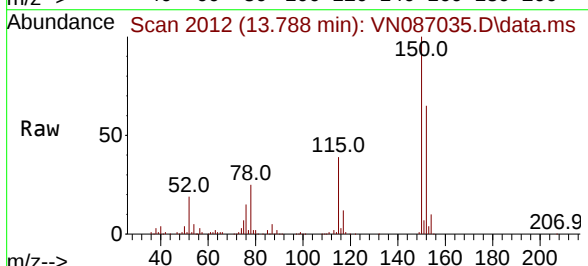
Tgt Ion:152 Resp: 162344

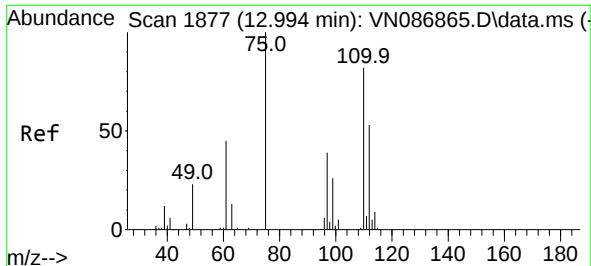
Ion Ratio Lower Upper

152 100

115 59.0 30.1 90.5

150 156.2 0.0 345.0

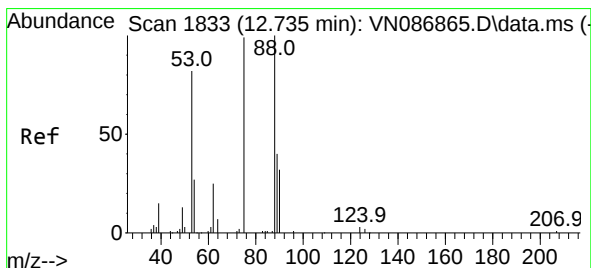
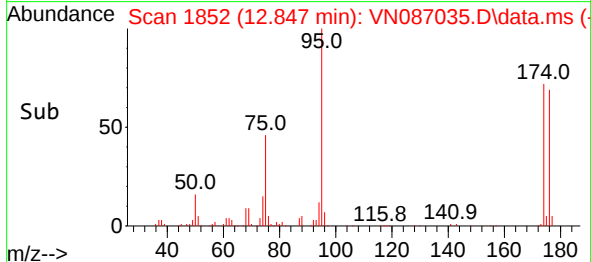
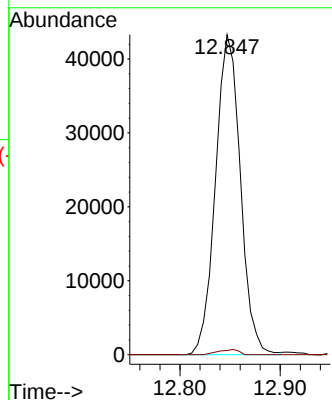
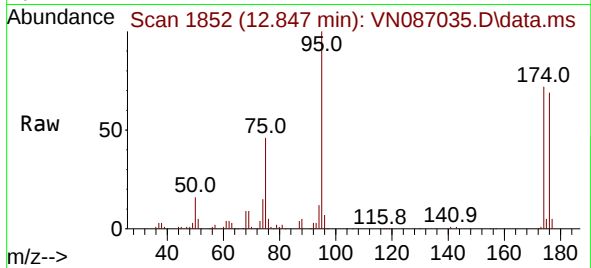




#76
1,2,3-Trichloropropane
Concen: 19.351 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN087035.D
Acq: 16 Jun 2025 16:37

Instrument :
MSVOA_N
ClientSampleId :
RE134D3-20250610

Tgt Ion: 75 Resp: 74676
Ion Ratio Lower Upper
75 100
77 1.3 79.3 237.9#



#81
trans-1,4-Dichloro-2-butene
Concen: 44.546 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN087035.D
Acq: 16 Jun 2025 16:37

Tgt Ion: 75 Resp: 74676
Ion Ratio Lower Upper
75 100
53 0.0 66.6 99.8#
89 0.0 36.7 55.1#

