

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081525\
 Data File : VN087586.D
 Acq On : 15 Aug 2025 16:46
 Operator : JC\MD
 Sample : Q2840-02
 Misc : 1.00g/10mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Aug 18 05:47:21 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071625W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 17 02:56:13 2025
 Response via : Initial Calibration

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

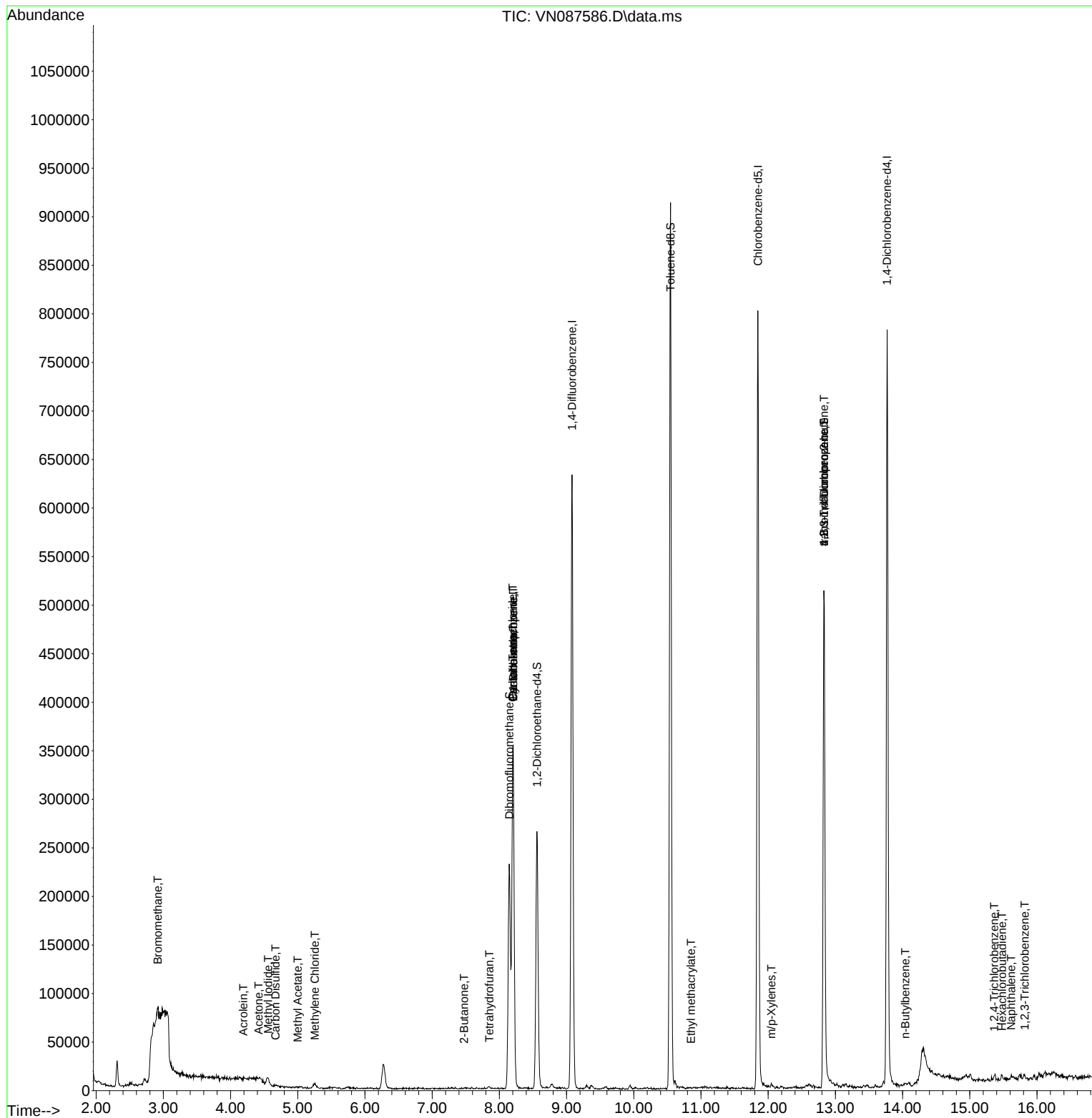
Internal Standards						
1) Pentafluorobenzene	8.206	168	245230	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	534465	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.847	117	446615	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	200497	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	222906	53.570	ug/l	0.00
Spiked Amount	50.000	Range 74 - 125	Recovery	= 107.140%		
35) Dibromofluoromethane	8.147	113	167781	45.509	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	= 91.020%		
50) Toluene-d8	10.547	98	610622	46.432	ug/l	0.00
Spiked Amount	50.000	Range 86 - 113	Recovery	= 92.860%		
62) 4-Bromofluorobenzene	12.829	95	194379	40.007	ug/l	0.00
Spiked Amount	50.000	Range 77 - 121	Recovery	= 80.020%		
Target Compounds						
						Qvalue
5) Bromomethane	2.918	94	6612	3.923	ug/l #	63
10) Methyl Iodide	4.559	142	15030	10.878	ug/l #	97
13) Acrolein	4.189	56	565	0.891	ug/l #	15
16) Acetone	4.418	43	1988	1.019	ug/l #	47
17) Carbon Disulfide	4.671	76	2717	0.327	ug/l #	86
18) Methyl Acetate	5.000	43	1681	0.343	ug/l #	54
20) Methylene Chloride	5.253	84	4057	0.597	ug/l #	74
25) 2-Butanone	7.477	43	1058	0.351	ug/l #	51
29) Tetrahydrofuran	7.853	42	1118	0.571	ug/l #	78
31) Cyclohexane	8.206	56	8224	1.608	ug/l #	63
36) 1,1-Dichloropropene	8.206	75	23531	4.831	ug/l #	50
38) Carbon Tetrachloride	8.200	117	28581	5.327	ug/l #	16
56) Ethyl methacrylate	10.853	69	191	0.665	ug/l #	1
68) m/p-Xylenes	12.047	106	1298	0.210	ug/l	80
76) 1,2,3-Trichloropropane	12.829	75	110210	24.513	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.829	75	110210	67.071	ug/l #	8
89) n-Butylbenzene	14.041	91	2470	0.239	ug/l	94
93) 1,2,4-Trichlorobenzene	15.364	180	1155	0.323	ug/l	66
94) Hexachlorobutadiene	15.482	225	389	0.293	ug/l #	51
95) Naphthalene	15.617	128	5227	0.413	ug/l #	79
96) 1,2,3-Trichlorobenzene	15.817	180	1770	0.494	ug/l	87

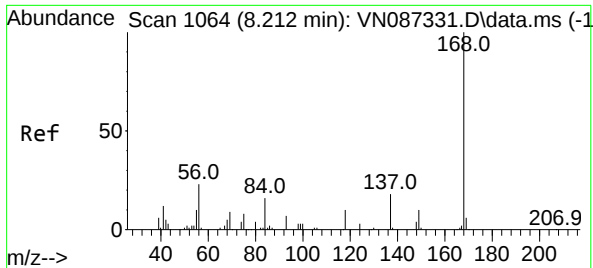
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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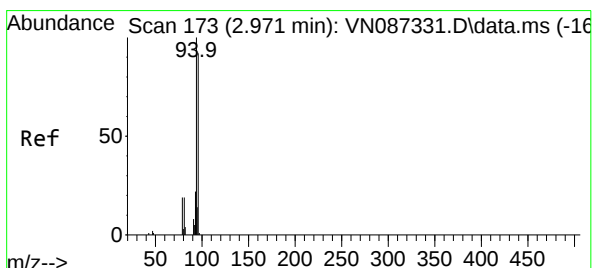
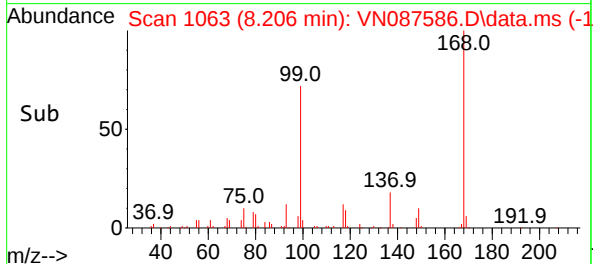
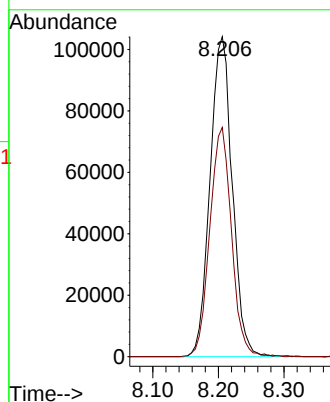
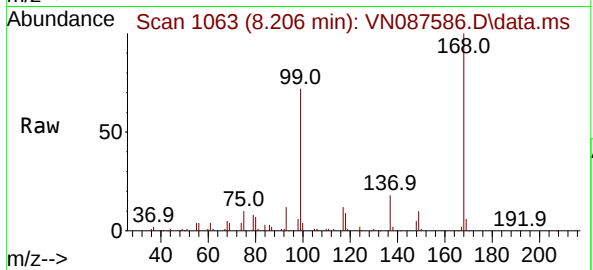




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. -0.006 min
Lab File: VN087586.D
Acq: 15 Aug 2025 16:46

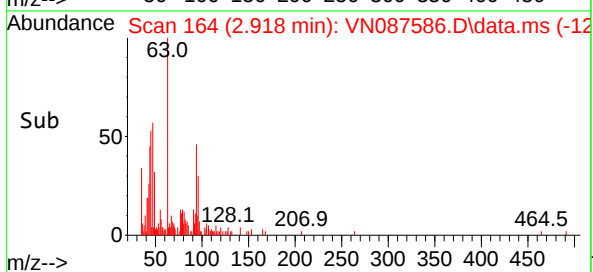
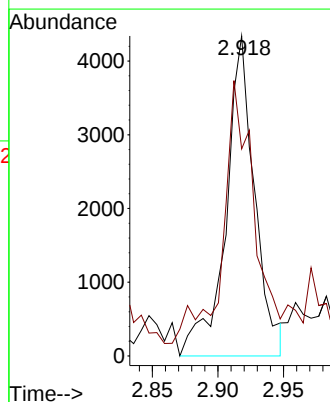
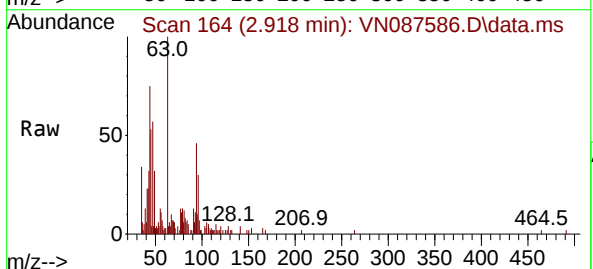
Instrument :
MSVOA_N
ClientSampleId :

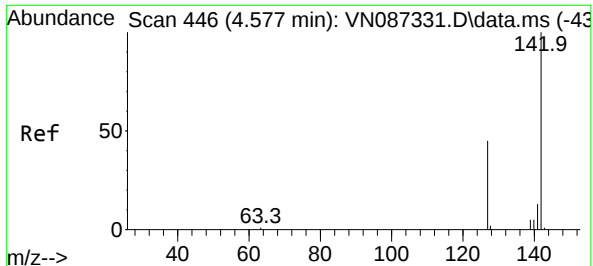
Tgt Ion:168 Resp: 245230
Ion Ratio Lower Upper
168 100
99 71.6 47.9 71.9



#5
Bromomethane
Concen: 3.923 ug/l
RT: 2.918 min Scan# 164
Delta R.T. -0.053 min
Lab File: VN087586.D
Acq: 15 Aug 2025 16:46

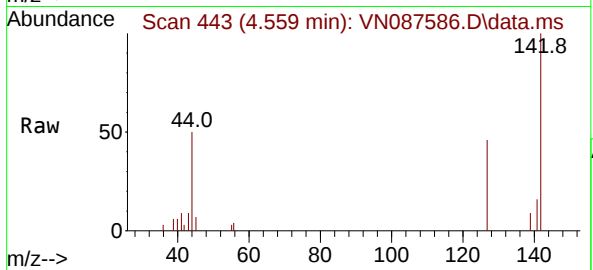
Tgt Ion: 94 Resp: 6612
Ion Ratio Lower Upper
94 100
96 56.3 73.4 110.2#



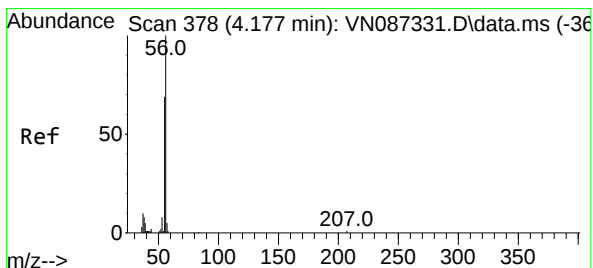
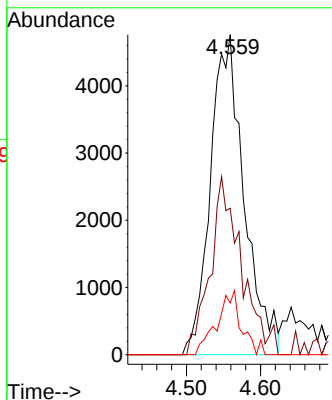
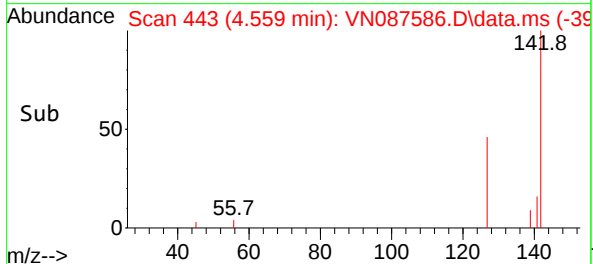


#10
Methyl Iodide
Concen: 10.878 ug/l
RT: 4.559 min Scan# 446
Delta R.T. -0.018 min
Lab File: VN087586.D
Acq: 15 Aug 2025 16:46

Instrument :
MSVOA_N
ClientSampleId :

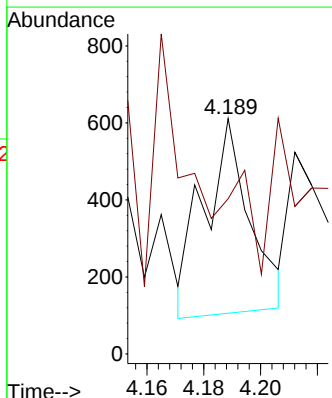
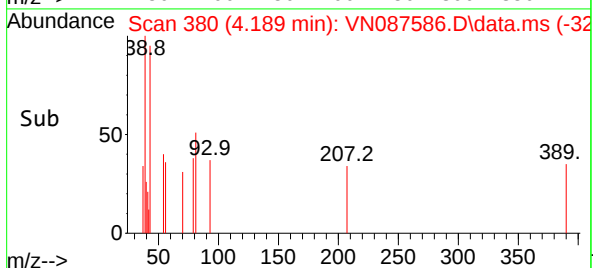
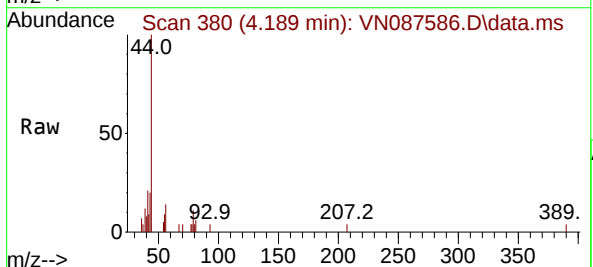


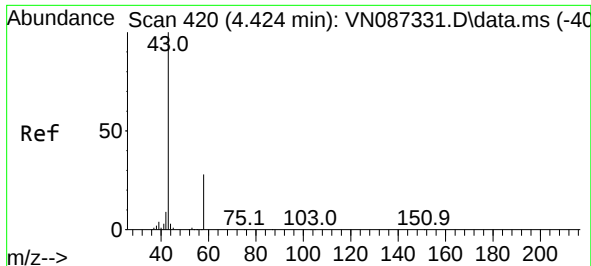
Tgt Ion:142 Resp: 15030
Ion Ratio Lower Upper
142 100
127 45.8 35.7 53.5
141 16.1 10.4 15.6#



#13
Acrolein
Concen: 0.891 ug/l
RT: 4.189 min Scan# 380
Delta R.T. 0.012 min
Lab File: VN087586.D
Acq: 15 Aug 2025 16:46

Tgt Ion: 56 Resp: 565
Ion Ratio Lower Upper
56 100
55 0.0 56.2 84.4#

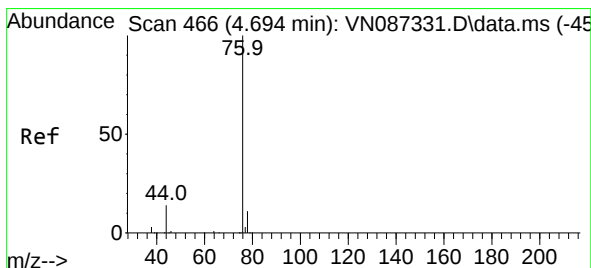
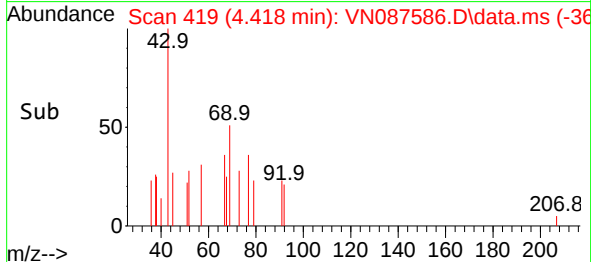
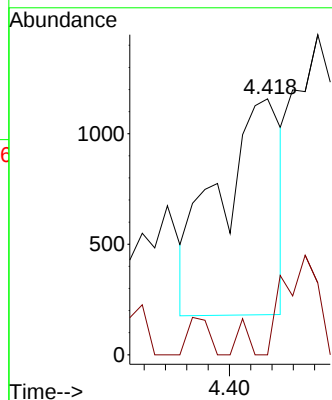
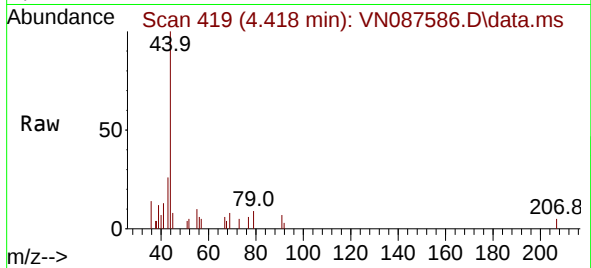




#16
Acetone
Concen: 1.019 ug/l
RT: 4.418 min Scan# 41
Delta R.T. -0.006 min
Lab File: VN087586.D
Acq: 15 Aug 2025 16:46

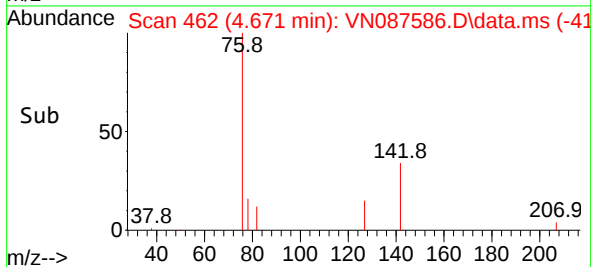
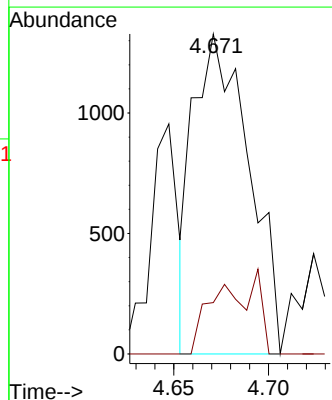
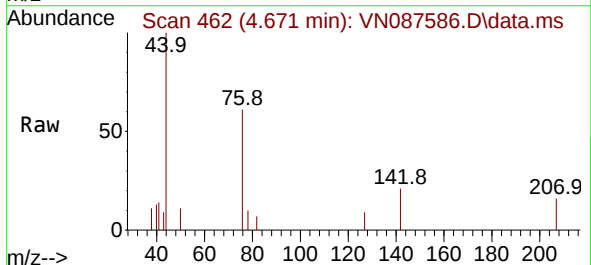
Instrument :
MSVOA_N
ClientSampleId :

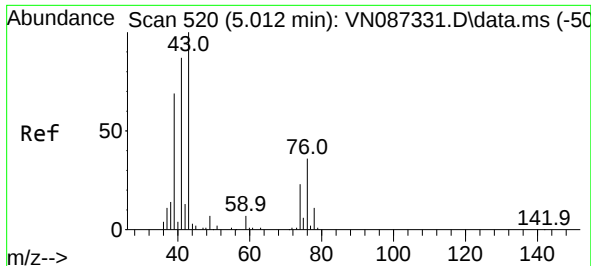
Tgt Ion: 43 Resp: 1988
Ion Ratio Lower Upper
43 100
58 0.0 22.3 33.5#



#17
Carbon Disulfide
Concen: 0.327 ug/l
RT: 4.671 min Scan# 462
Delta R.T. -0.023 min
Lab File: VN087586.D
Acq: 15 Aug 2025 16:46

Tgt Ion: 76 Resp: 2717
Ion Ratio Lower Upper
76 100
78 16.0 8.6 13.0#

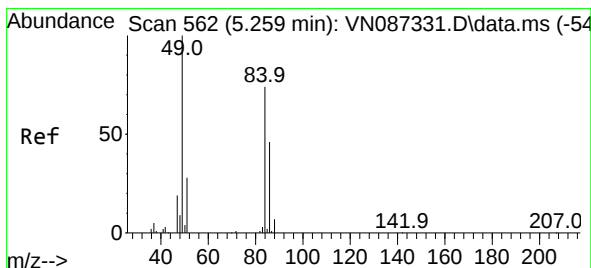
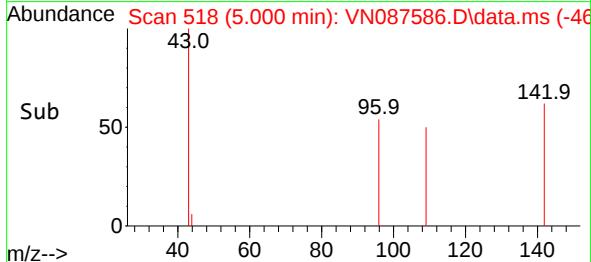
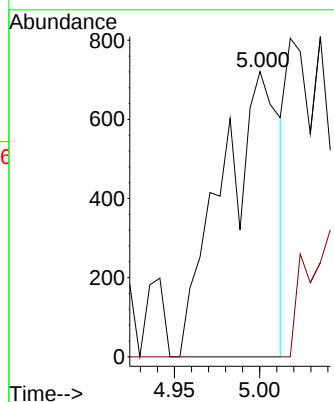
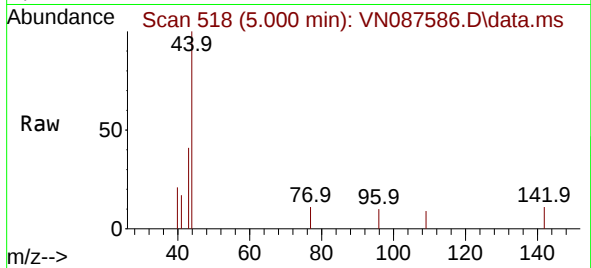




#18
Methyl Acetate
Concen: 0.343 ug/l
RT: 5.000 min Scan# 51
Delta R.T. -0.012 min
Lab File: VN087586.D
Acq: 15 Aug 2025 16:46

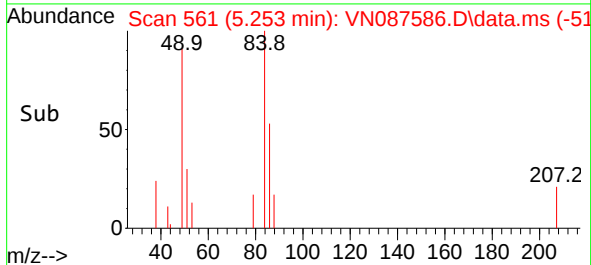
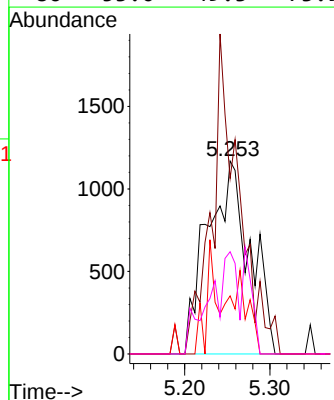
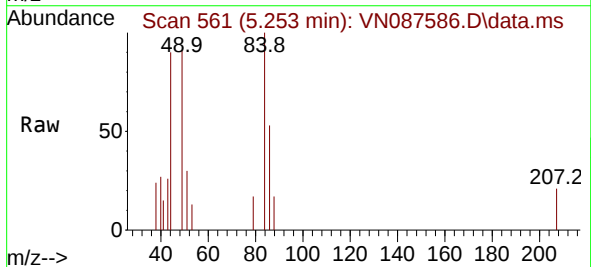
Instrument :
MSVOA_N
ClientSampleId :

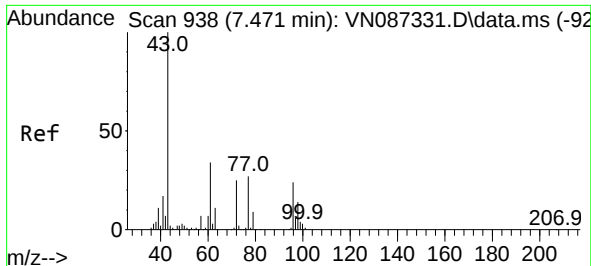
Tgt Ion: 43 Resp: 1681
Ion Ratio Lower Upper
43 100
74 0.0 17.8 26.6#



#20
Methylene Chloride
Concen: 0.597 ug/l
RT: 5.253 min Scan# 561
Delta R.T. -0.006 min
Lab File: VN087586.D
Acq: 15 Aug 2025 16:46

Tgt Ion: 84 Resp: 4057
Ion Ratio Lower Upper
84 100
49 91.0 107.5 161.3#
51 30.1 30.2 45.2#
86 53.0 49.3 73.9

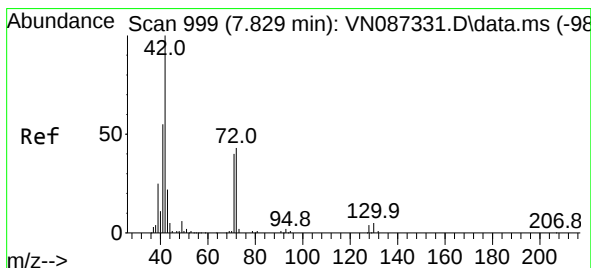
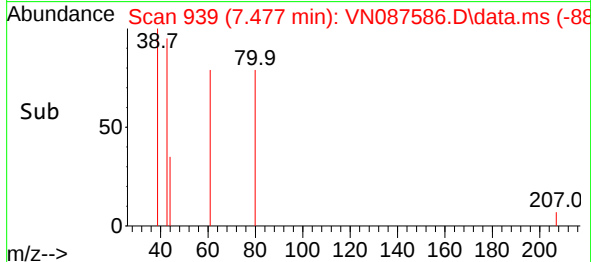
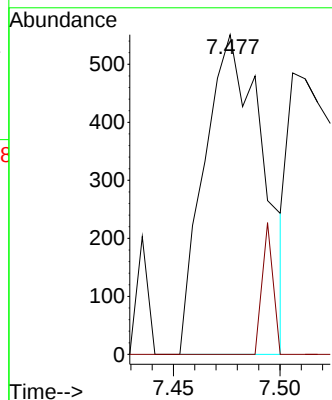
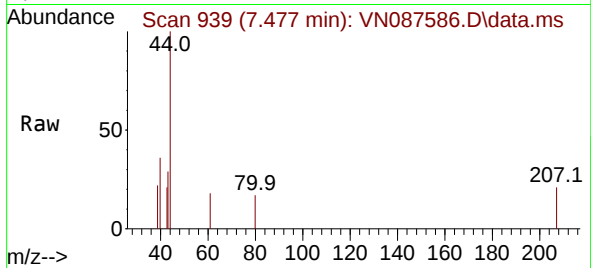




#25
2-Butanone
Concen: 0.351 ug/l
RT: 7.477 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN087586.D
Acq: 15 Aug 2025 16:46

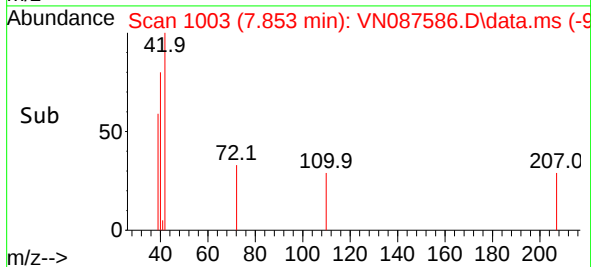
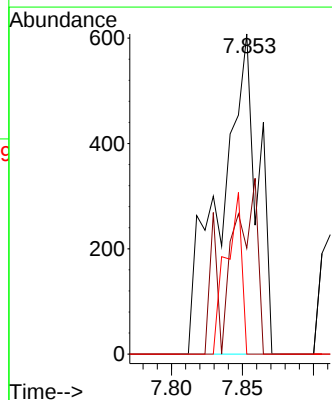
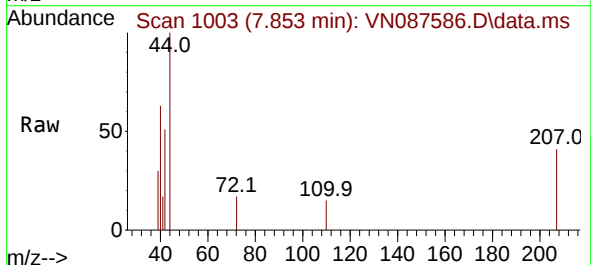
Instrument :
MSVOA_N
ClientSampleId :

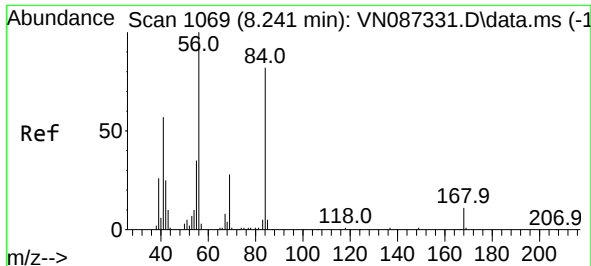
Tgt Ion: 43 Resp: 1058
Ion Ratio Lower Upper
43 100
72 0.0 19.6 29.4#



#29
Tetrahydrofuran
Concen: 0.571 ug/l
RT: 7.853 min Scan# 1003
Delta R.T. 0.024 min
Lab File: VN087586.D
Acq: 15 Aug 2025 16:46

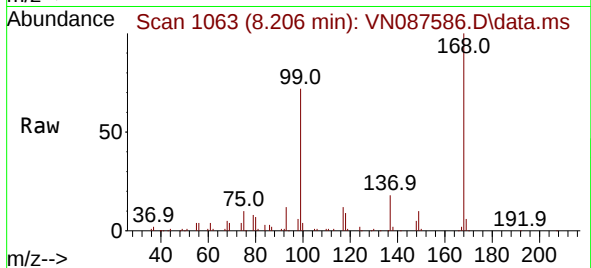
Tgt Ion: 42 Resp: 1118
Ion Ratio Lower Upper
42 100
72 32.0 33.4 50.0#
71 21.2 31.2 46.8#



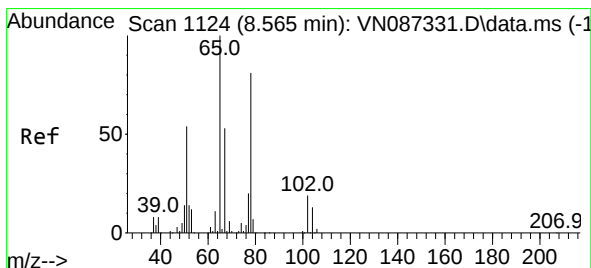
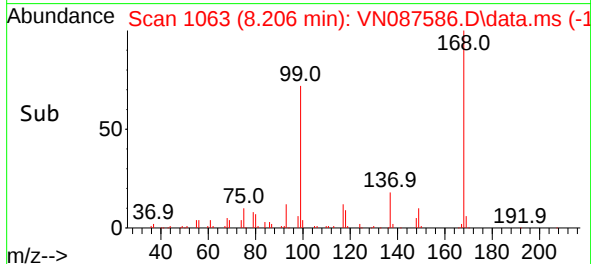
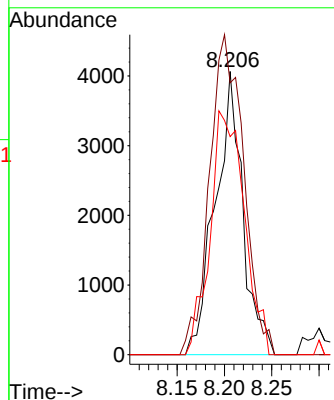


#31
Cyclohexane
Concen: 1.608 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. -0.035 min
Lab File: VN087586.D
Acq: 15 Aug 2025 16:46

Instrument :
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ClientSampleId :

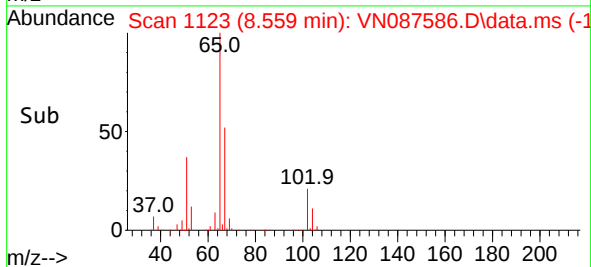
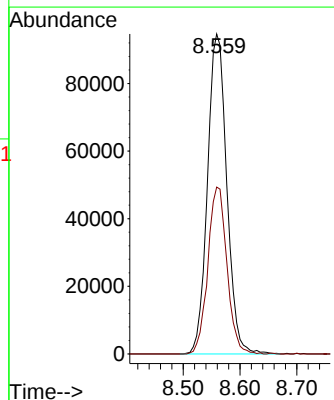
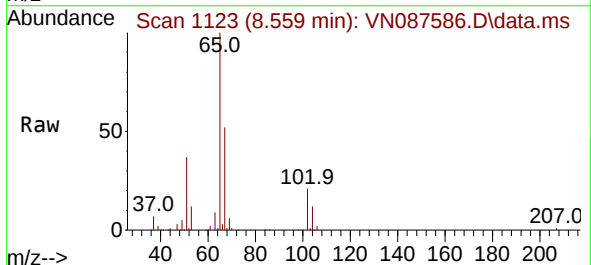


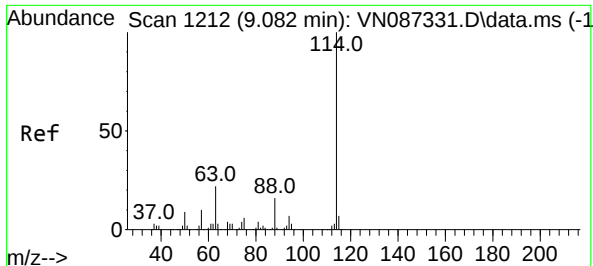
Tgt Ion: 56 Resp: 8224
Ion Ratio Lower Upper
56 100
69 96.0 22.7 34.1#
84 77.0 65.8 98.6



#33
1,2-Dichloroethane-d4
Concen: 53.570 ug/l
RT: 8.559 min Scan# 1123
Delta R.T. -0.006 min
Lab File: VN087586.D
Acq: 15 Aug 2025 16:46

Tgt Ion: 65 Resp: 222906
Ion Ratio Lower Upper
65 100
67 51.6 0.0 104.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.082 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN087586.D

Acq: 15 Aug 2025 16:46

Instrument :

MSVOA_N

ClientSampleId :

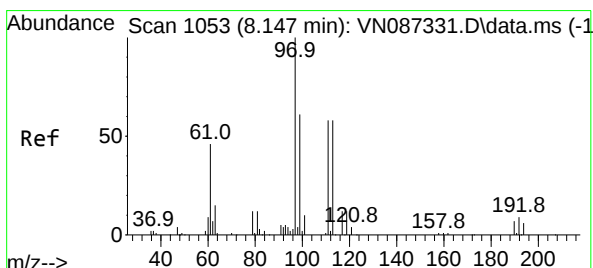
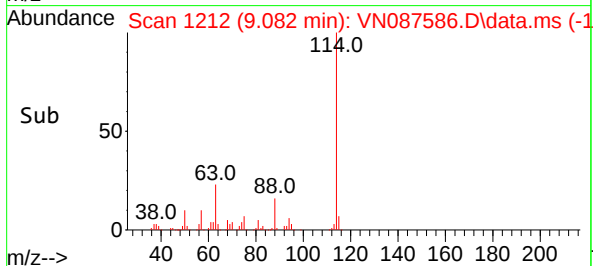
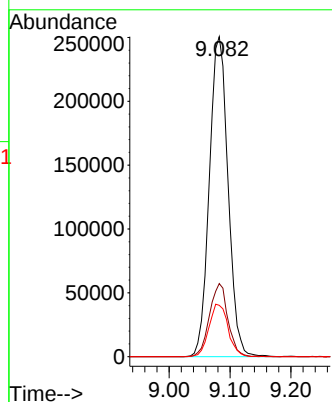
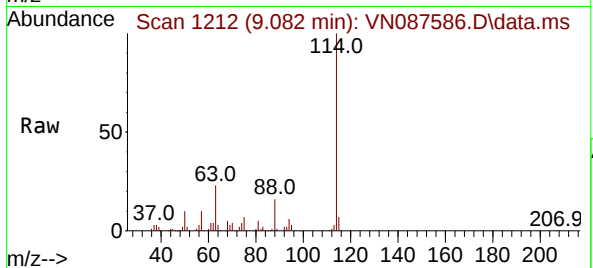
Tgt Ion:114 Resp: 534465

Ion Ratio Lower Upper

114 100

63 22.8 0.0 44.6

88 16.1 0.0 32.8



#35

Dibromofluoromethane

Concen: 45.509 ug/l

RT: 8.147 min Scan# 1053

Delta R.T. -0.000 min

Lab File: VN087586.D

Acq: 15 Aug 2025 16:46

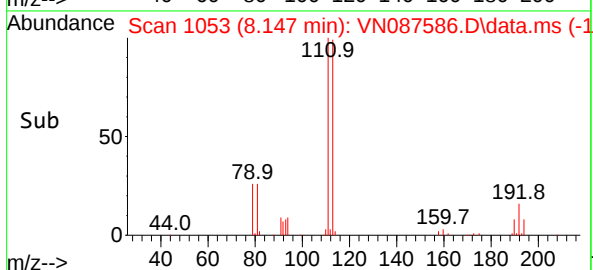
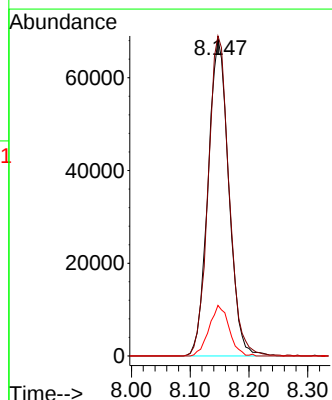
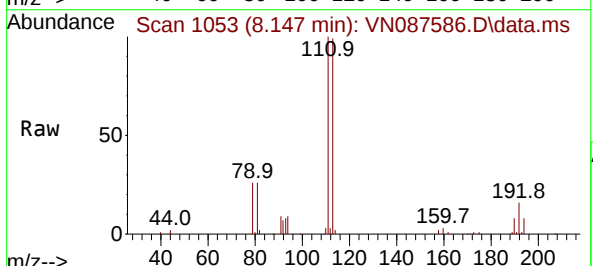
Tgt Ion:113 Resp: 167781

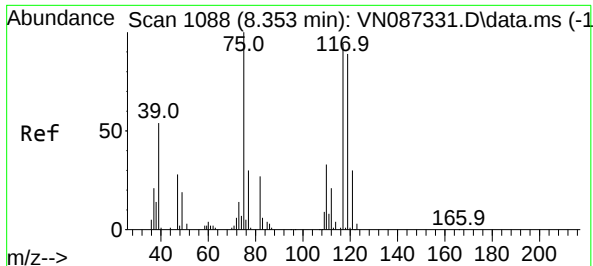
Ion Ratio Lower Upper

113 100

111 101.3 82.5 123.7

192 15.4 13.7 20.5





#36

1,1-Dichloropropene

Concen: 4.831 ug/l

RT: 8.206 min Scan# 1063

Delta R.T. -0.147 min

Lab File: VN087586.D

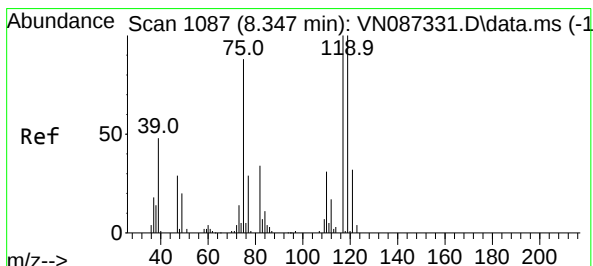
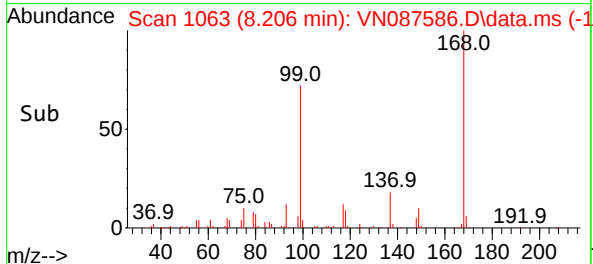
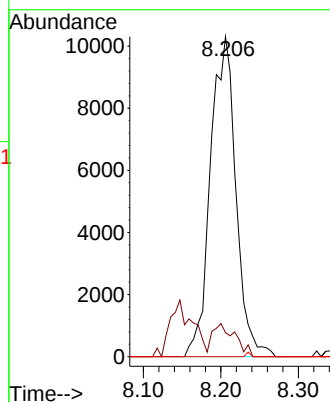
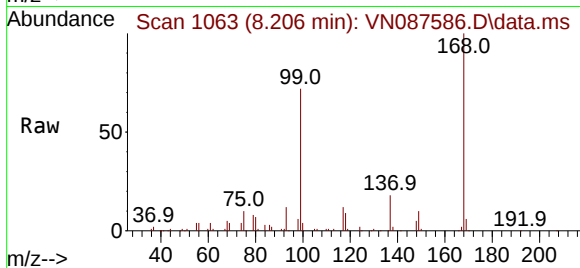
Acq: 15 Aug 2025 16:46

Instrument :

MSVOA_N

ClientSampleId :

Tgt Ion:	75	Resp:	23531
Ion	Ratio	Lower	Upper
75	100		
110	9.2	16.7	50.1#
77	0.0	25.2	37.8#



#38

Carbon Tetrachloride

Concen: 5.327 ug/l

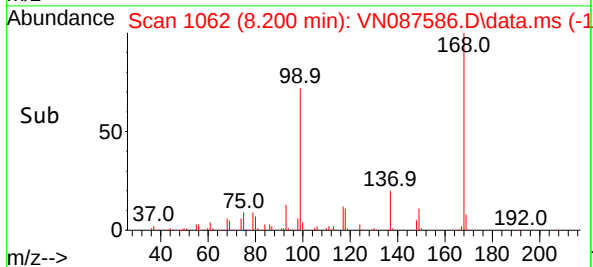
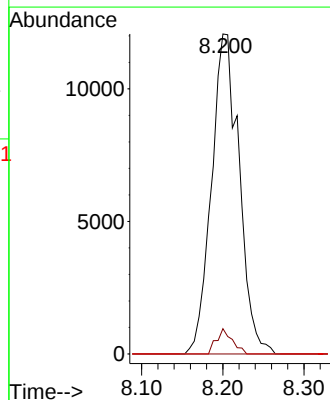
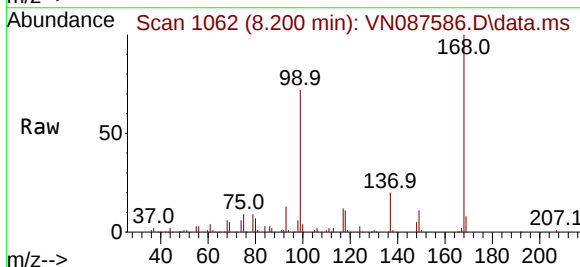
RT: 8.200 min Scan# 1062

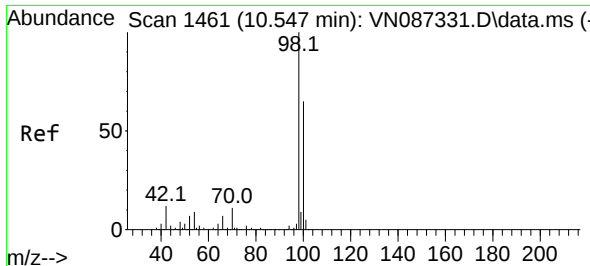
Delta R.T. -0.147 min

Lab File: VN087586.D

Acq: 15 Aug 2025 16:46

Tgt Ion:	117	Resp:	28581
Ion	Ratio	Lower	Upper
117	100		
119	7.9	80.2	120.2#
121	0.0	25.4	38.2#

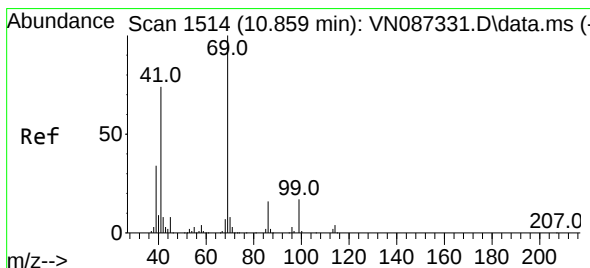
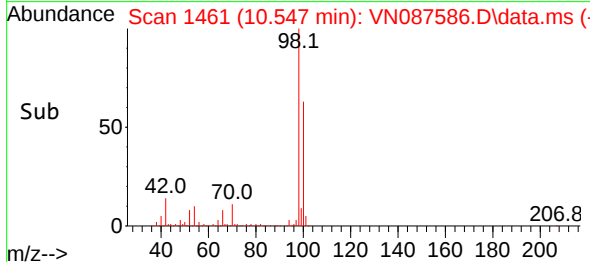
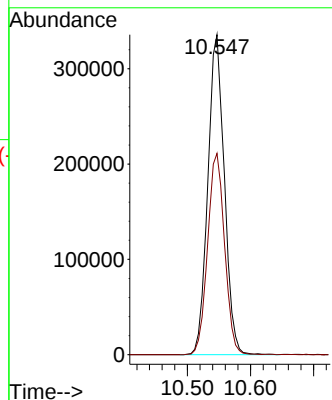
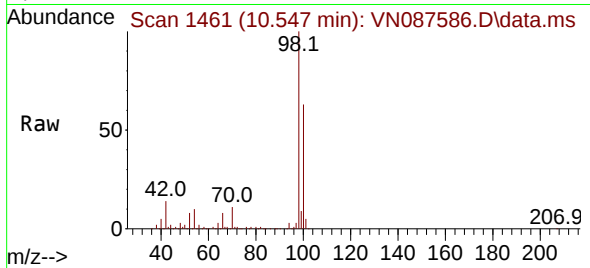




#50
Toluene-d8
Concen: 46.432 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. -0.000 min
Lab File: VN087586.D
Acq: 15 Aug 2025 16:46

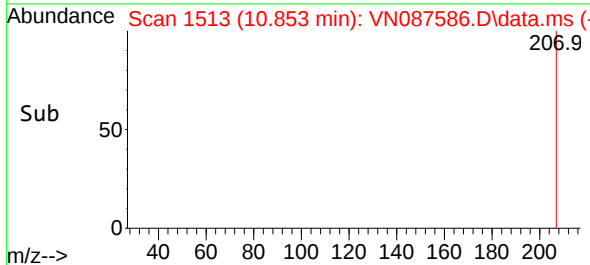
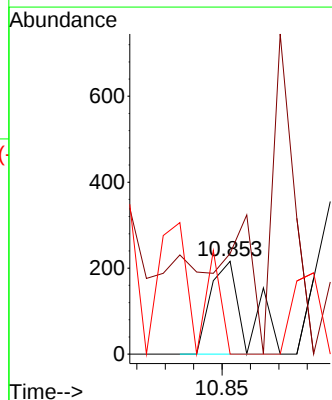
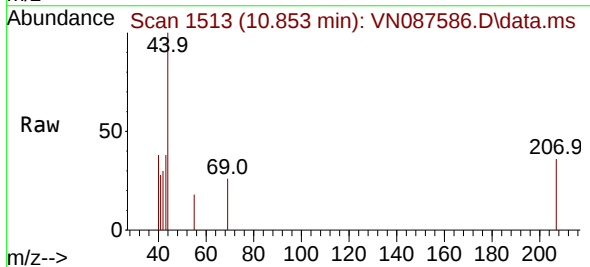
Instrument :
MSVOA_N
ClientSampleId :

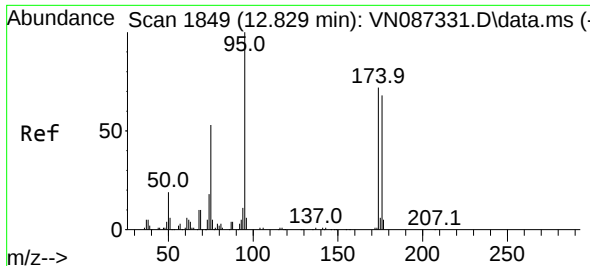
Tgt Ion: 98 Resp: 610622
Ion Ratio Lower Upper
98 100
100 64.5 52.1 78.1



#56
Ethyl methacrylate
Concen: 0.665 ug/l
RT: 10.853 min Scan# 1513
Delta R.T. -0.006 min
Lab File: VN087586.D
Acq: 15 Aug 2025 16:46

Tgt Ion: 69 Resp: 191
Ion Ratio Lower Upper
69 100
41 0.0 55.1 82.7#
39 152.4 27.9 41.9#

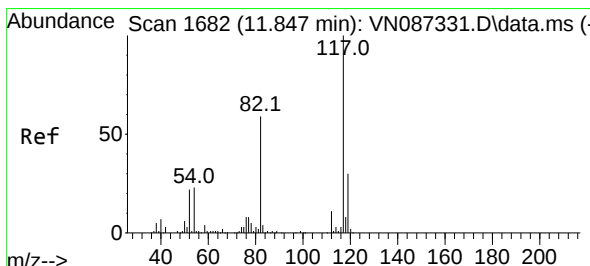
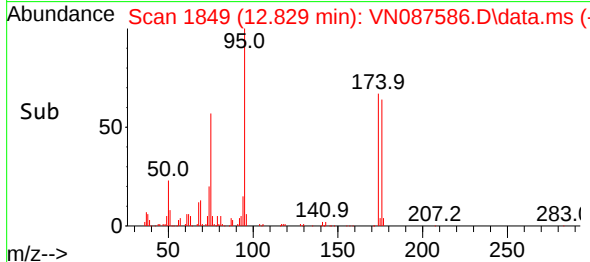
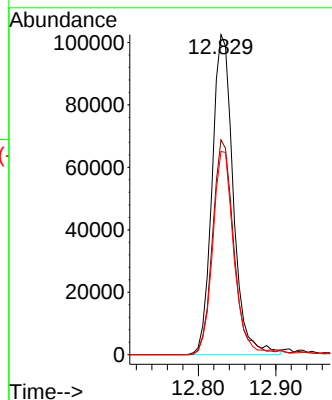
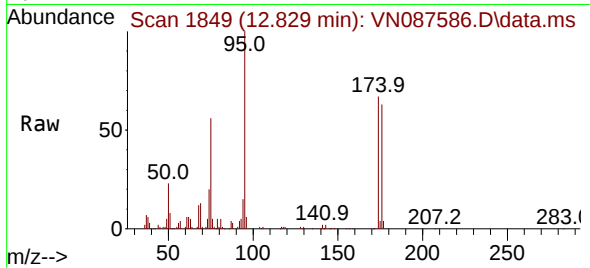




#62
4-Bromofluorobenzene
Concen: 40.007 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. -0.000 min
Lab File: VN087586.D
Acq: 15 Aug 2025 16:46

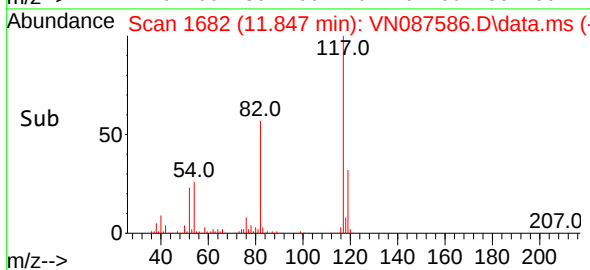
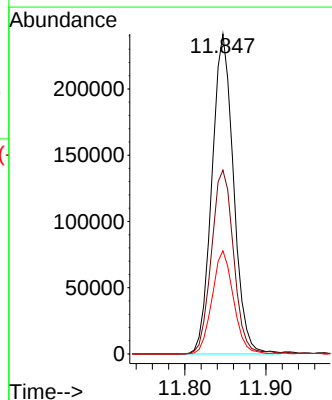
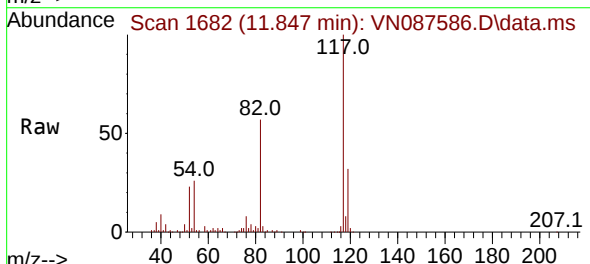
Instrument :
MSVOA_N
ClientSampleId :

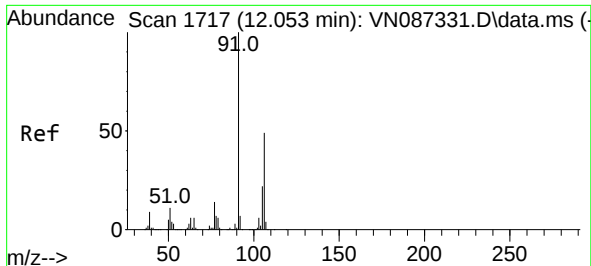
Tgt Ion: 95 Resp: 194379
Ion Ratio Lower Upper
95 100
174 67.6 0.0 149.4
176 64.3 0.0 141.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.847 min Scan# 1682
Delta R.T. -0.000 min
Lab File: VN087586.D
Acq: 15 Aug 2025 16:46

Tgt Ion: 117 Resp: 446615
Ion Ratio Lower Upper
117 100
82 57.4 47.4 71.2
119 32.3 23.8 35.8

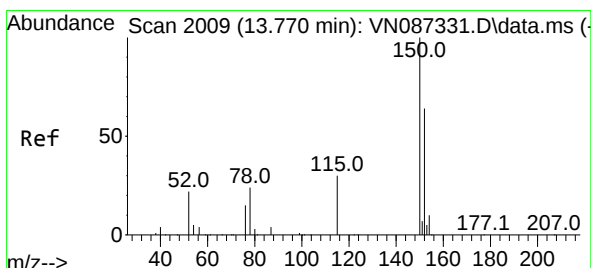
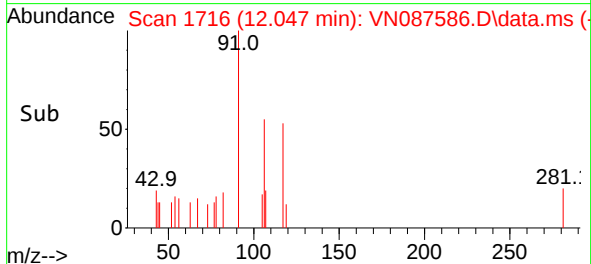
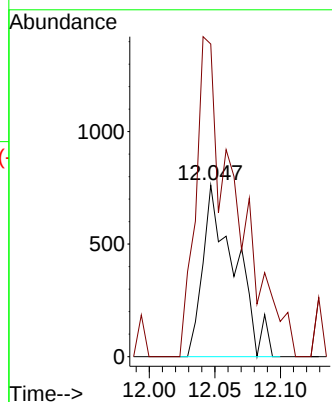
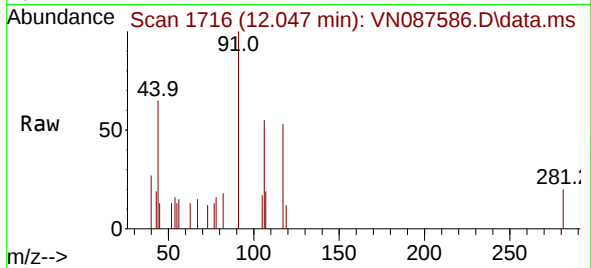




#68
m/p-Xylenes
Concen: 0.210 ug/l
RT: 12.047 min Scan# 1716
Delta R.T. -0.006 min
Lab File: VN087586.D
Acq: 15 Aug 2025 16:46

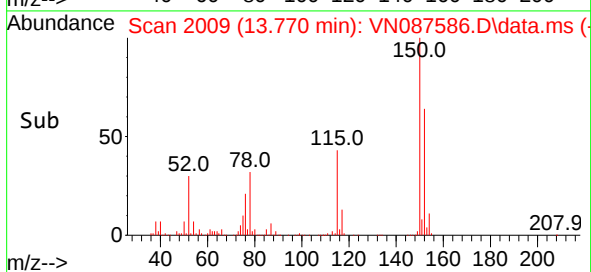
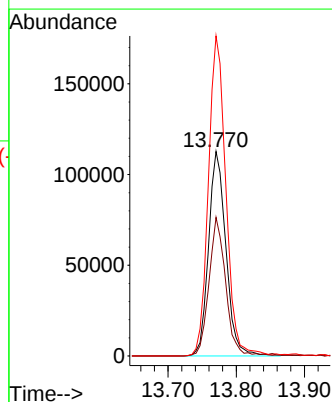
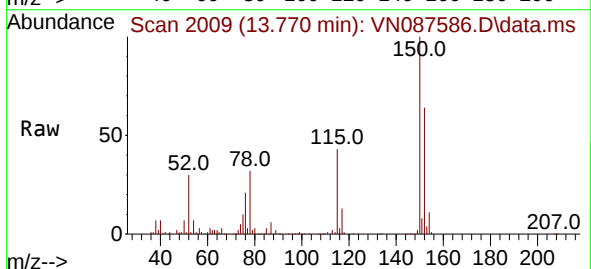
Instrument :
MSVOA_N
ClientSampleId :

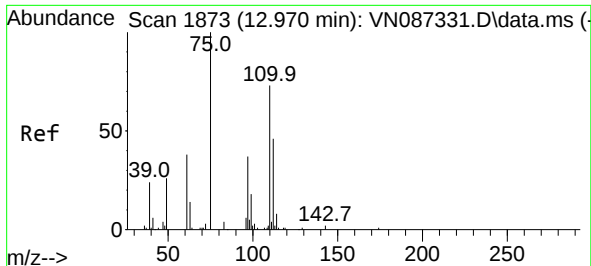
Tgt Ion:106 Resp: 1298
Ion Ratio Lower Upper
106 100
91 232.4 162.0 243.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.770 min Scan# 2009
Delta R.T. -0.000 min
Lab File: VN087586.D
Acq: 15 Aug 2025 16:46

Tgt Ion:152 Resp: 200497
Ion Ratio Lower Upper
152 100
115 65.0 31.1 93.5
150 157.5 0.0 349.0

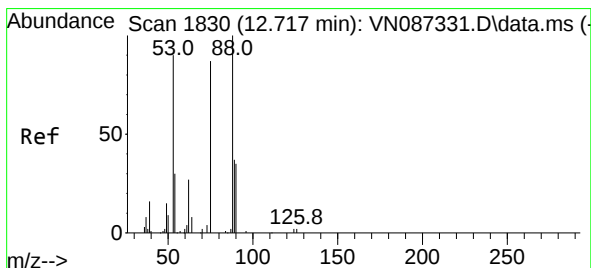
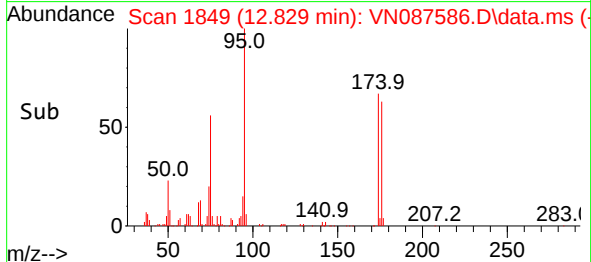
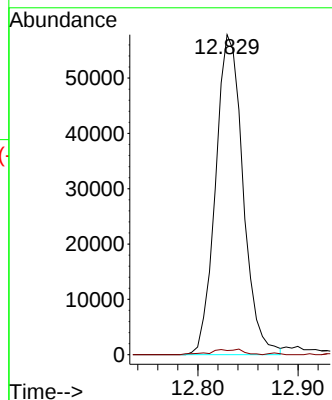
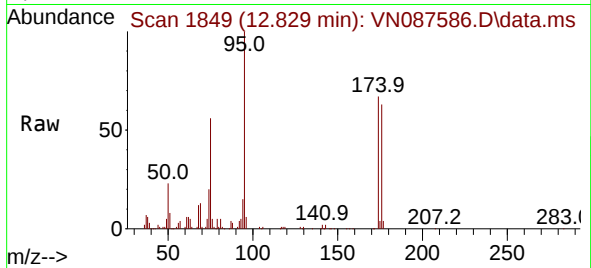




#76
1,2,3-Trichloropropane
Concen: 24.513 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. -0.141 min
Lab File: VN087586.D
Acq: 15 Aug 2025 16:46

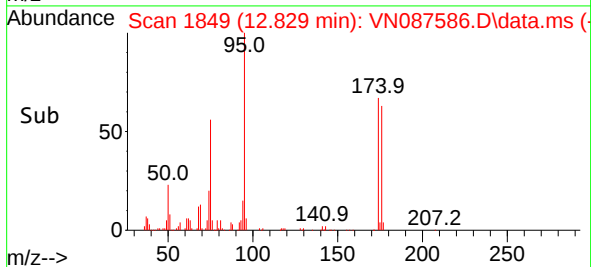
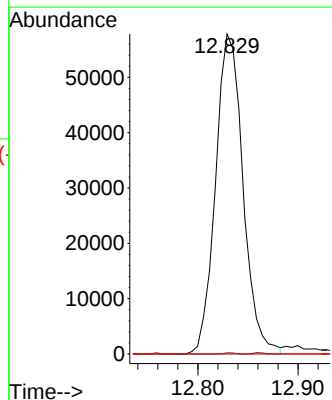
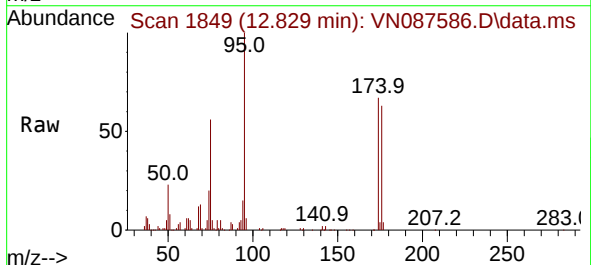
Instrument :
MSVOA_N
ClientSampleId :

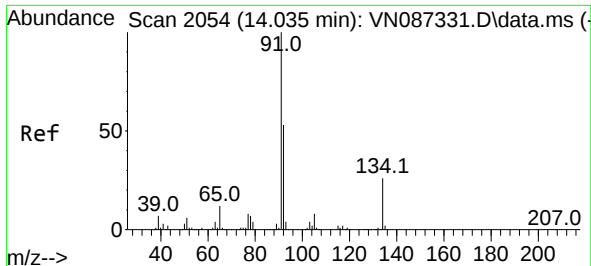
Tgt Ion: 75 Resp: 110210
Ion Ratio Lower Upper
75 100
77 2.0 94.5 283.6#



#81
trans-1,4-Dichloro-2-butene
Concen: 67.071 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.112 min
Lab File: VN087586.D
Acq: 15 Aug 2025 16:46

Tgt Ion: 75 Resp: 110210
Ion Ratio Lower Upper
75 100
53 0.1 83.5 125.3#
89 0.0 38.4 57.6#

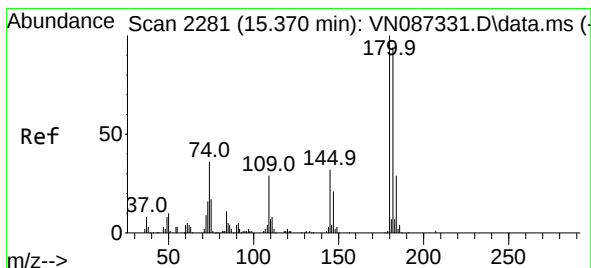
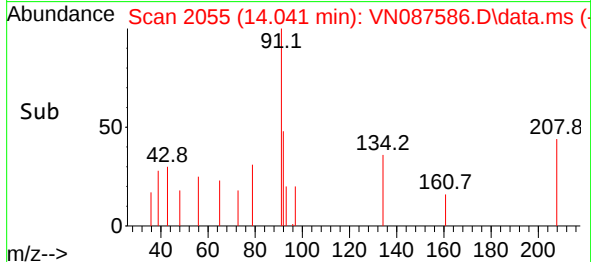
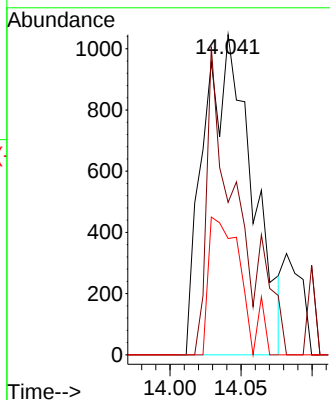
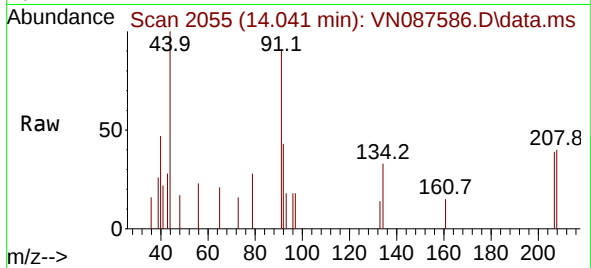




#89
n-Butylbenzene
Concen: 0.239 ug/l
RT: 14.041 min Scan# 2054
Delta R.T. 0.006 min
Lab File: VN087586.D
Acq: 15 Aug 2025 16:46

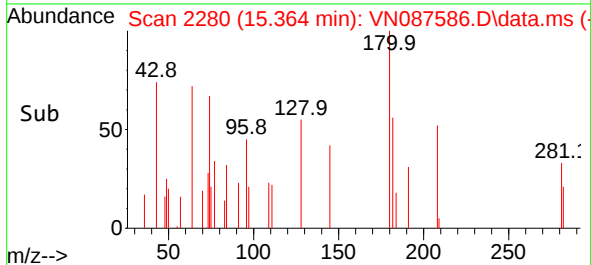
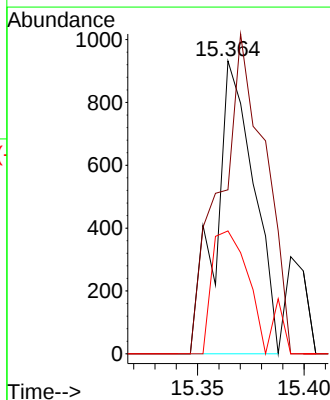
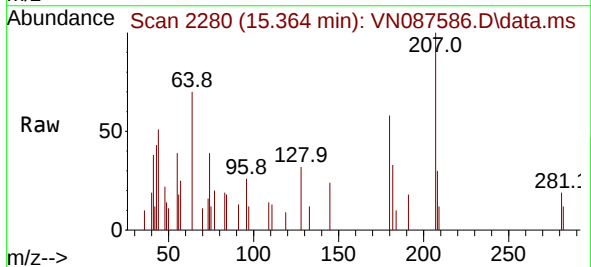
Instrument :
MSVOA_N
ClientSampleId :

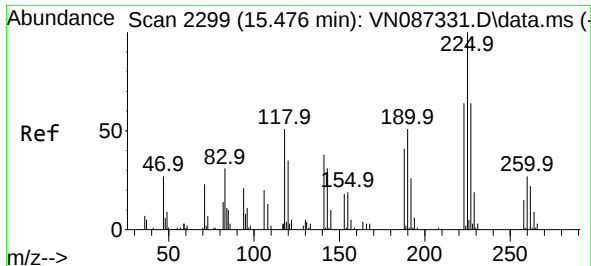
Tgt Ion: 91 Resp: 2470
Ion Ratio Lower Upper
91 100
92 49.3 26.2 78.6
134 29.1 12.4 37.2



#93
1,2,4-Trichlorobenzene
Concen: 0.323 ug/l
RT: 15.364 min Scan# 2280
Delta R.T. -0.006 min
Lab File: VN087586.D
Acq: 15 Aug 2025 16:46

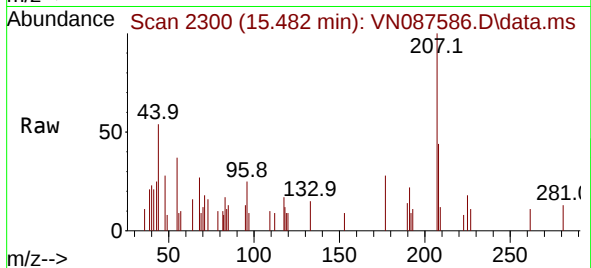
Tgt Ion: 180 Resp: 1155
Ion Ratio Lower Upper
180 100
182 129.8 47.3 141.8
145 44.8 15.4 46.4



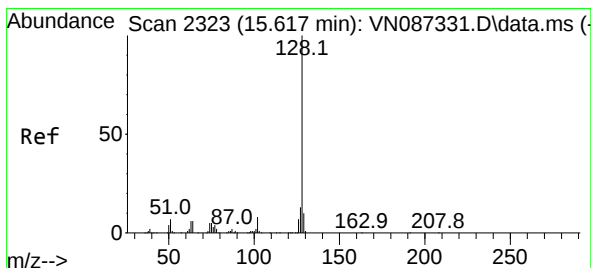
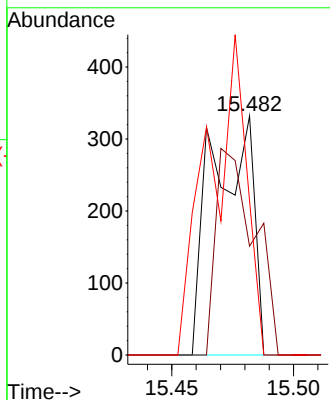
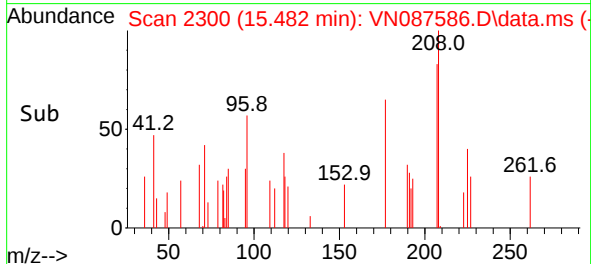


#94
Hexachlorobutadiene
Concen: 0.293 ug/l
RT: 15.482 min Scan# 21
Delta R.T. 0.006 min
Lab File: VN087586.D
Acq: 15 Aug 2025 16:46

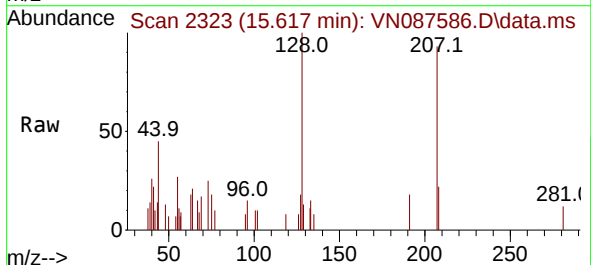
Instrument :
MSVOA_N
ClientSampleId :



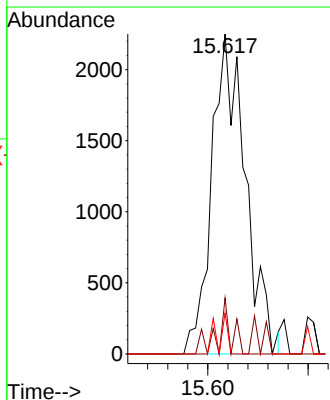
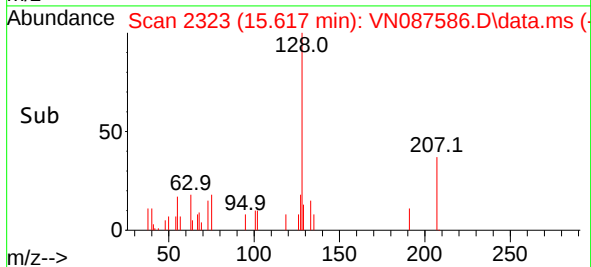
Tgt Ion:225 Resp: 389
Ion Ratio Lower Upper
225 100
223 80.7 32.1 96.3
227 123.4 31.3 93.9#

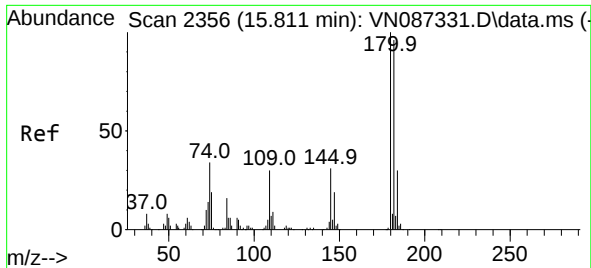


#95
Naphthalene
Concen: 0.413 ug/l
RT: 15.617 min Scan# 2323
Delta R.T. -0.000 min
Lab File: VN087586.D
Acq: 15 Aug 2025 16:46



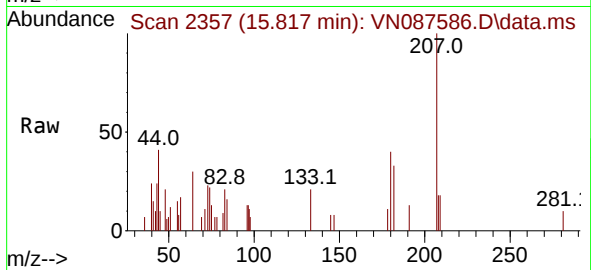
Tgt Ion:128 Resp: 5227
Ion Ratio Lower Upper
128 100
127 5.5 10.5 15.7#
129 1.7 8.4 12.6#





#96
 1,2,3-Trichlorobenzene
 Concen: 0.494 ug/l
 RT: 15.817 min Scan# 21
 Delta R.T. 0.006 min
 Lab File: VN087586.D
 Acq: 15 Aug 2025 16:46

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion:	180	Resp:	1770
Ion	Ratio	Lower	Upper
180	100		
182	80.6	47.1	141.4
145	28.5	16.9	50.6

