

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091625\
 Data File : VN087852.D
 Acq On : 16 Sep 2025 16:08
 Operator : JC\MD
 Sample : Q3103-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 17 01:22:55 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)

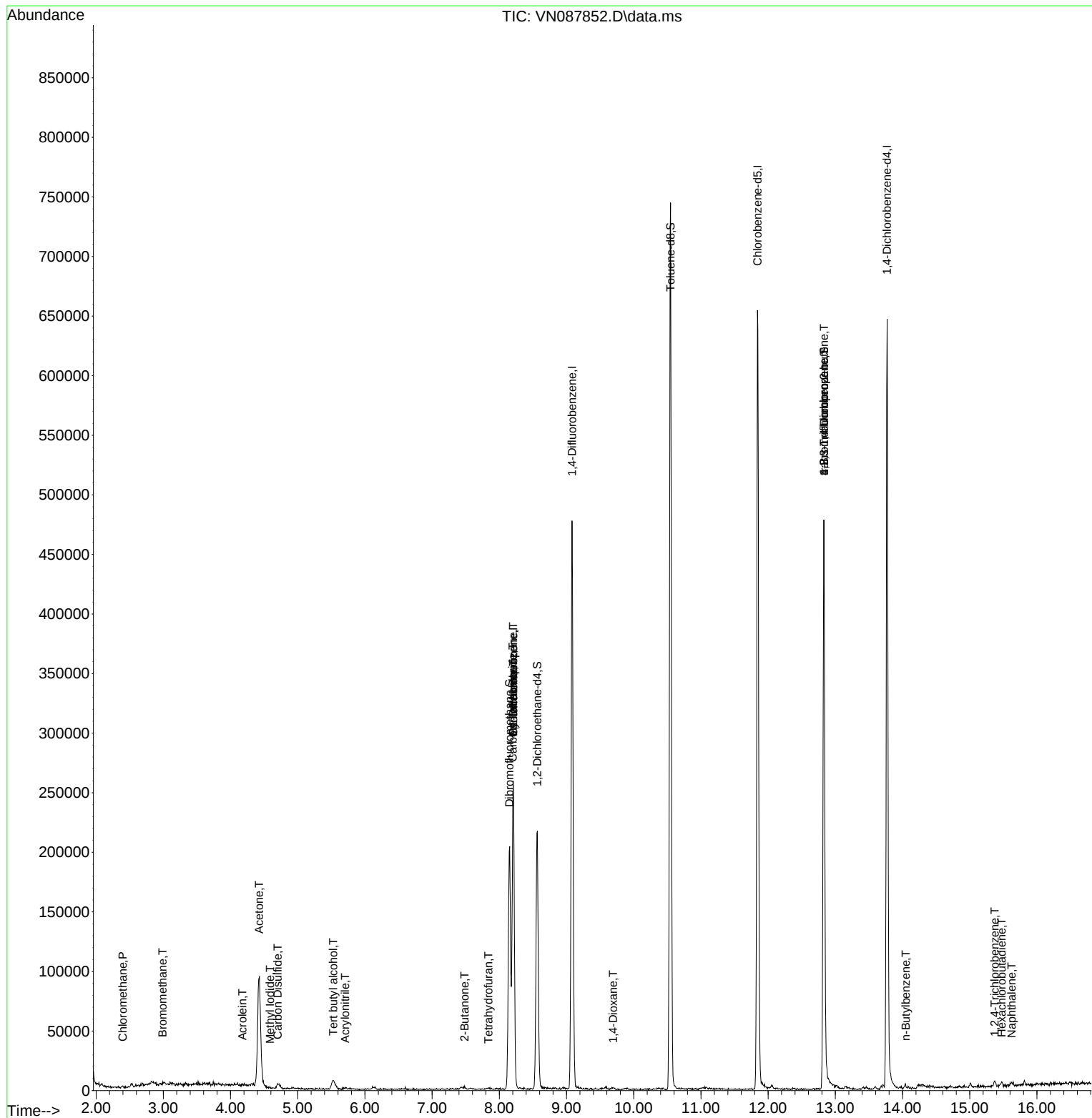
Internal Standards						
1) Pentafluorobenzene	8.206	168	176281	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.083	114	397684	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	370407	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	174998	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.565	65	177396	49.116	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	98.240%
35) Dibromofluoromethane	8.147	113	148054	51.564	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	103.120%
50) Toluene-d8	10.547	98	507250	47.201	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	94.400%
62) 4-Bromofluorobenzene	12.829	95	164786	43.117	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	86.240%
Target Compounds						
					Qvalue	
3) Chloromethane	2.395	50	1225	0.476	ug/l #	42
5) Bromomethane	2.989	94	822	0.534	ug/l #	62
10) Methyl Iodide	4.589	142	284	6.943	ug/l #	38
11) Tert butyl alcohol	5.530	59	13352	21.294	ug/l #	74
13) Acrolein	4.177	56	256	0.332	ug/l #	14
15) Acrylonitrile	5.706	53	892	0.504	ug/l #	63
16) Acetone	4.424	43	188015	95.626	ug/l	98
17) Carbon Disulfide	4.700	76	6093	0.871	ug/l	97
20) Methylene Chloride	5.265	84	184	Below Cal	#	50
25) 2-Butanone	7.483	43	3111	1.203	ug/l	98
29) Tetrahydrofuran	7.836	42	796	0.478	ug/l #	45
31) Cyclohexane	8.206	56	4759	1.048	ug/l #	37
36) 1,1-Dichloropropene	8.206	75	16673	3.785	ug/l #	51
38) Carbon Tetrachloride	8.200	117	19912	4.578	ug/l #	15
49) 1,4-Dioxane	9.694	88	1594	27.667	ug/l #	73
76) 1,2,3-Trichloropropane	12.829	75	94439	23.013	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.829	75	94439	60.923	ug/l #	1
89) n-Butylbenzene	14.047	91	2604	0.214	ug/l	98
93) 1,2,4-Trichlorobenzene	15.370	180	1212	0.324	ug/l	73
94) Hexachlorobutadiene	15.476	225	990	0.742	ug/l	90
95) Naphthalene	15.623	128	3636	0.274	ug/l #	87

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

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MSVOA_N
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Quant Time: Sep 17 01:22:55 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

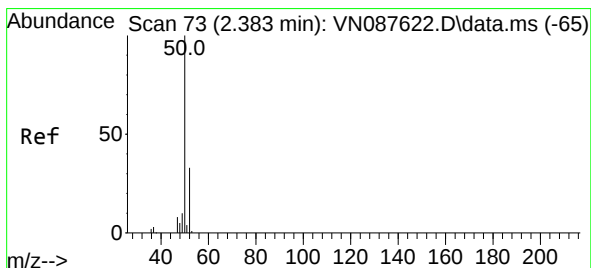
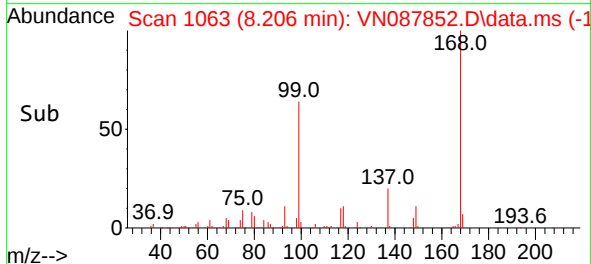
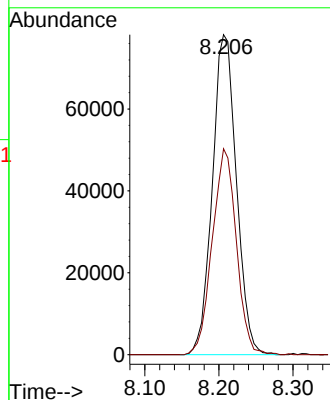
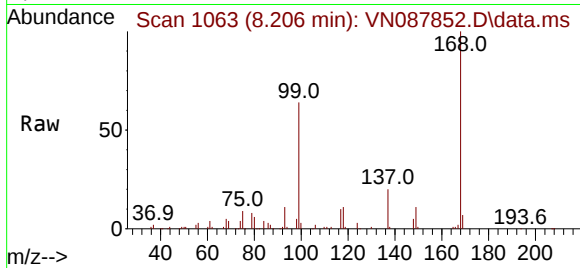




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. 0.000 min
Lab File: VN087852.D
Acq: 16 Sep 2025 16:08

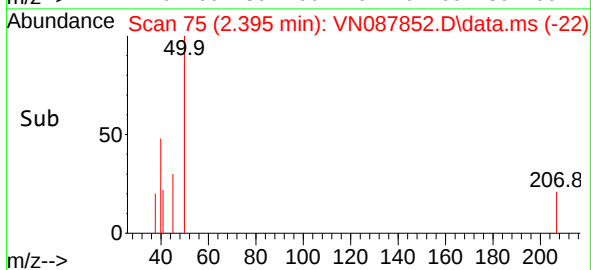
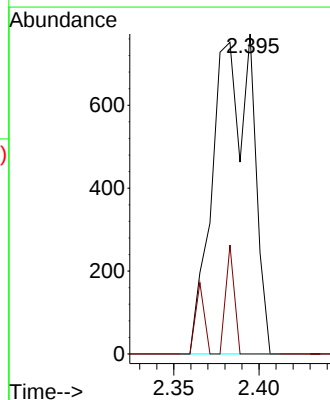
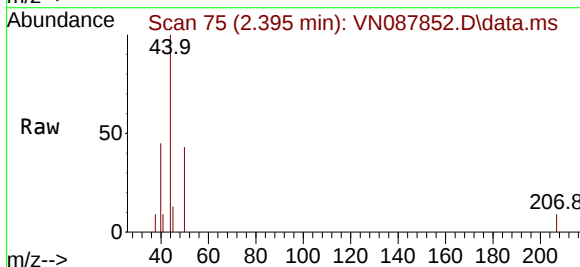
Instrument :
MSVOA_N
ClientSampleId :

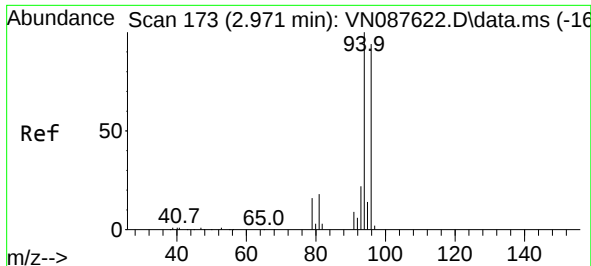
Tgt Ion:168 Resp: 176281
Ion Ratio Lower Upper
168 100
99 64.4 57.2 85.8



#3
Chloromethane
Concen: 0.476 ug/l
RT: 2.395 min Scan# 75
Delta R.T. 0.012 min
Lab File: VN087852.D
Acq: 16 Sep 2025 16:08

Tgt Ion: 50 Resp: 1225
Ion Ratio Lower Upper
50 100
52 0.0 26.2 39.4#

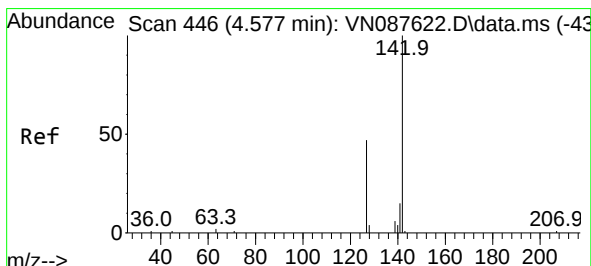
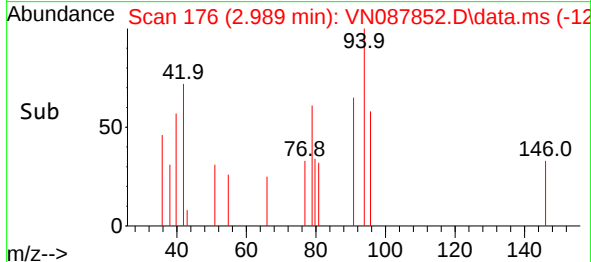
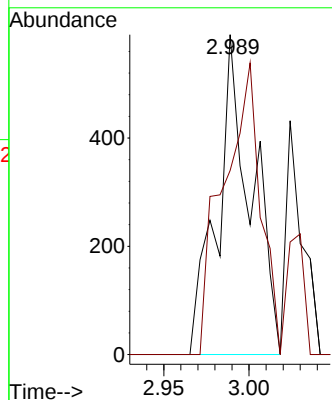
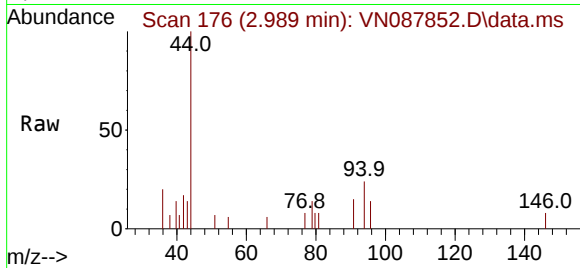




#5
Bromomethane
Concen: 0.534 ug/l
RT: 2.989 min Scan# 11
Delta R.T. 0.018 min
Lab File: VN087852.D
Acq: 16 Sep 2025 16:08

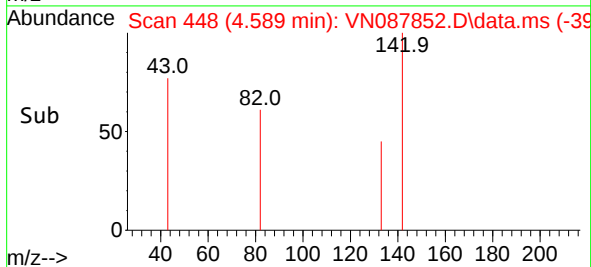
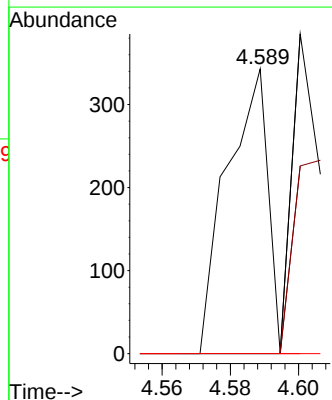
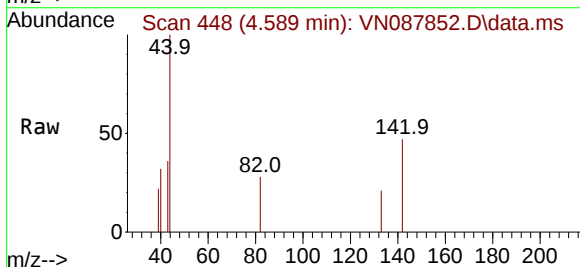
Instrument :
MSVOA_N
ClientSampleId :

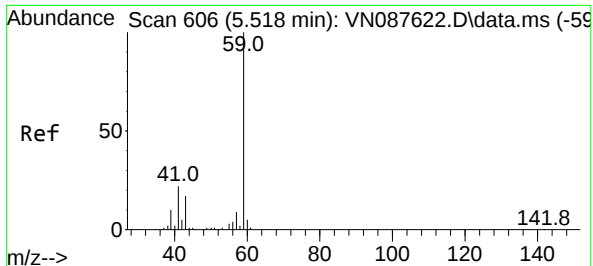
Tgt Ion: 94 Resp: 822
Ion Ratio Lower Upper
94 100
96 57.5 75.4 113.2#



#10
Methyl Iodide
Concen: 6.943 ug/l
RT: 4.589 min Scan# 448
Delta R.T. 0.012 min
Lab File: VN087852.D
Acq: 16 Sep 2025 16:08

Tgt Ion:142 Resp: 284
Ion Ratio Lower Upper
142 100
127 0.0 38.0 57.0#
141 0.0 12.0 18.0#

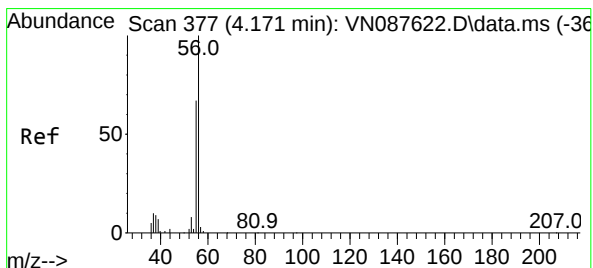
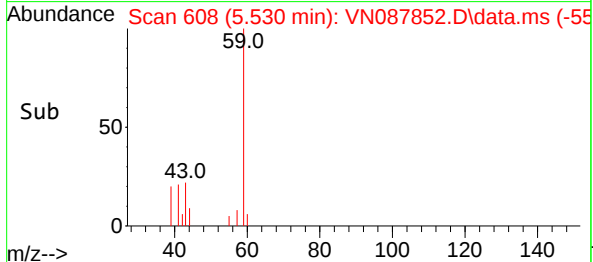
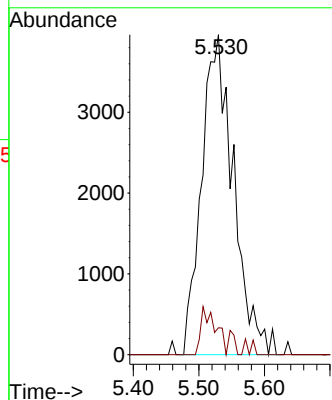
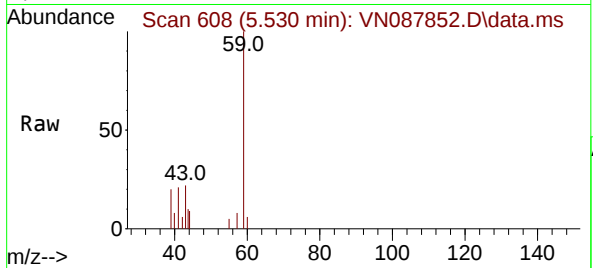




#11
Tert butyl alcohol
Concen: 21.294 ug/l
RT: 5.530 min Scan# 606
Delta R.T. 0.012 min
Lab File: VN087852.D
Acq: 16 Sep 2025 16:08

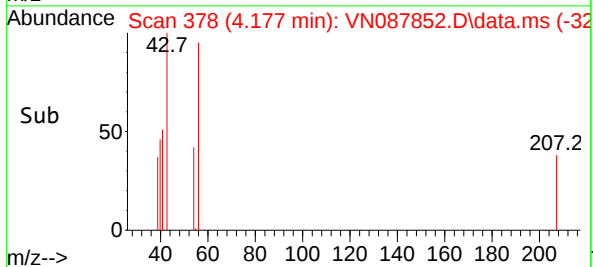
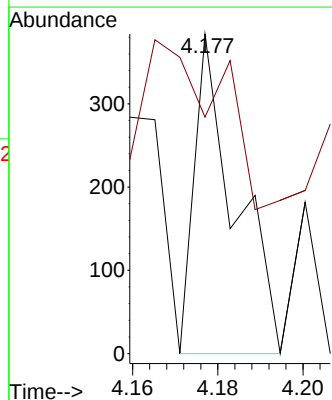
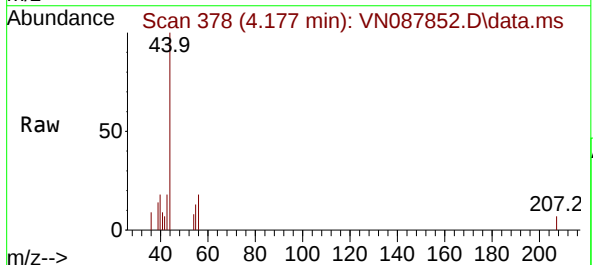
Instrument :
MSVOA_N
ClientSampleId :

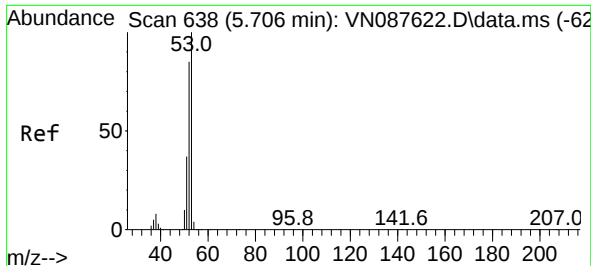
Tgt Ion: 59 Resp: 13352
Ion Ratio Lower Upper
59 100
57 1.4 9.0 13.4#



#13
Acrolein
Concen: 0.332 ug/l
RT: 4.177 min Scan# 378
Delta R.T. 0.006 min
Lab File: VN087852.D
Acq: 16 Sep 2025 16:08

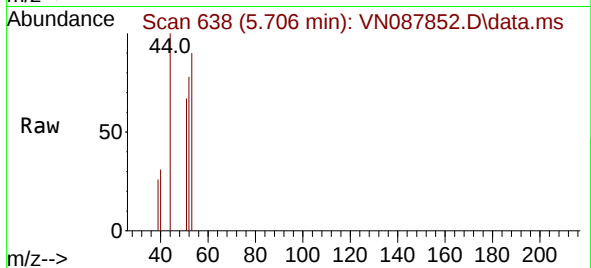
Tgt Ion: 56 Resp: 256
Ion Ratio Lower Upper
56 100
55 0.0 57.3 85.9#



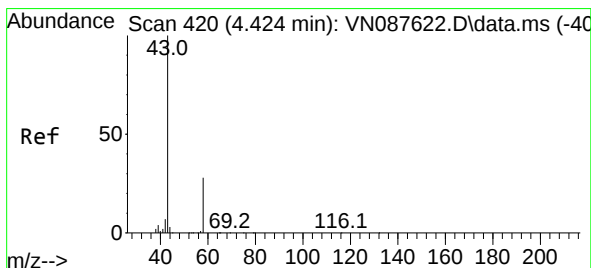
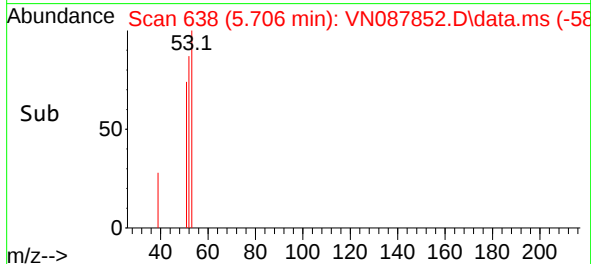
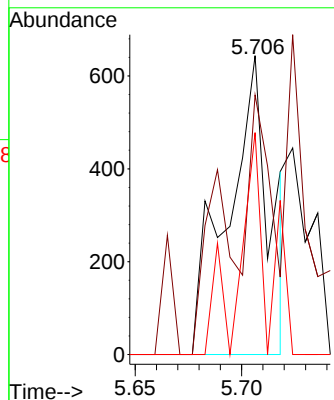


#15
Acrylonitrile
Concen: 0.504 ug/l
RT: 5.706 min Scan# 61
Delta R.T. -0.000 min
Lab File: VN087852.D
Acq: 16 Sep 2025 16:08

Instrument :
MSVOA_N
ClientSampleId :

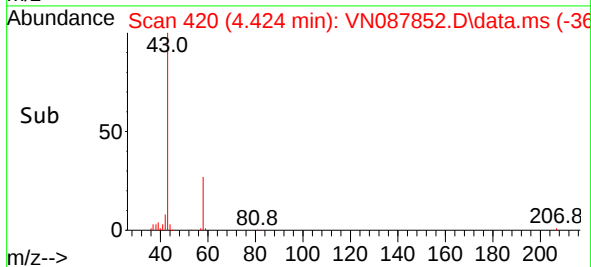
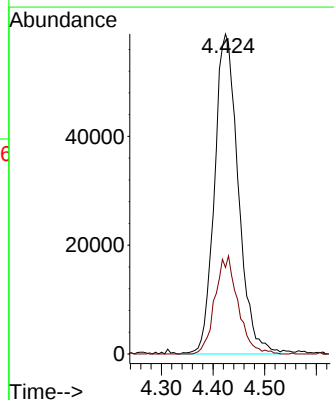
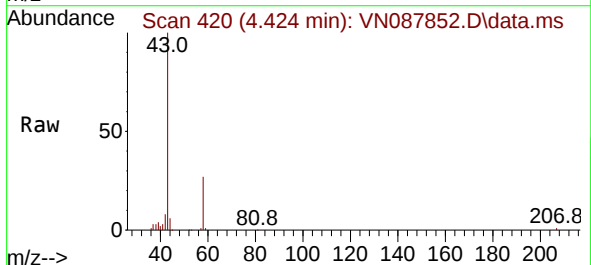


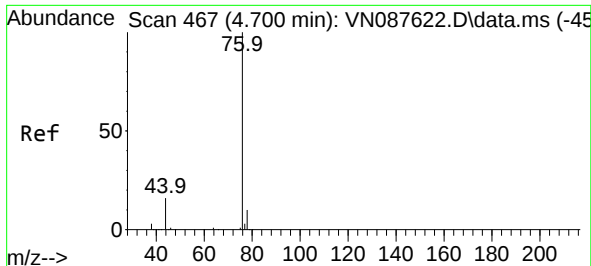
Tgt Ion: 53 Resp: 892
Ion Ratio Lower Upper
53 100
52 44.8 67.6 101.4#
51 50.6 30.1 45.1#



#16
Acetone
Concen: 95.626 ug/l
RT: 4.424 min Scan# 420
Delta R.T. 0.000 min
Lab File: VN087852.D
Acq: 16 Sep 2025 16:08

Tgt Ion: 43 Resp: 188015
Ion Ratio Lower Upper
43 100
58 27.1 22.6 33.8

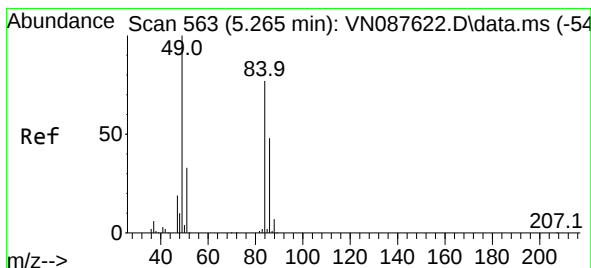
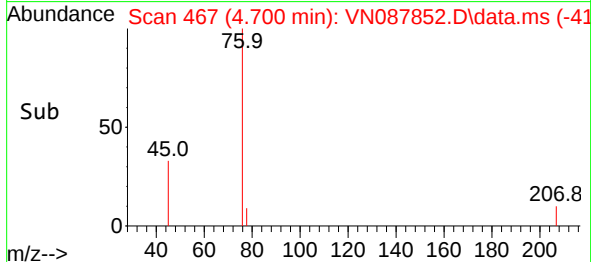
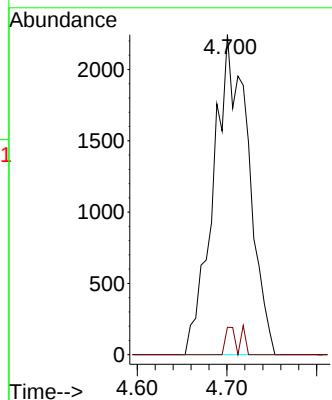
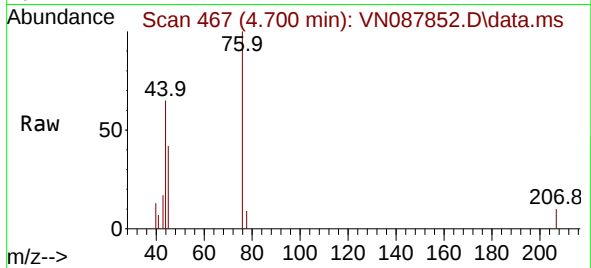




#17
Carbon Disulfide
Concen: 0.871 ug/l
RT: 4.700 min Scan# 41
Delta R.T. -0.000 min
Lab File: VN087852.D
Acq: 16 Sep 2025 16:08

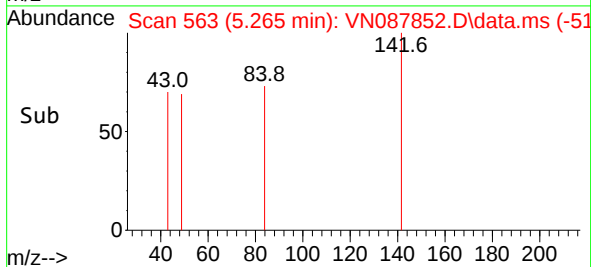
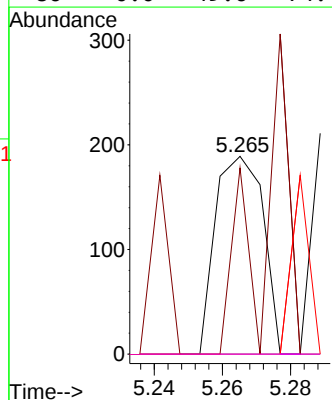
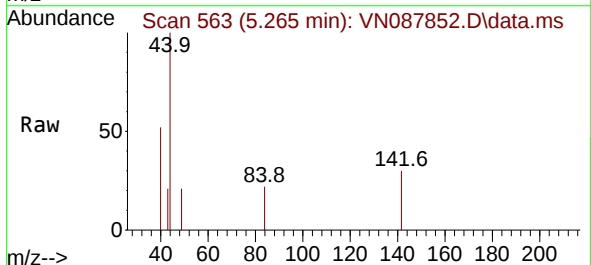
Instrument :
MSVOA_N
ClientSampleId :

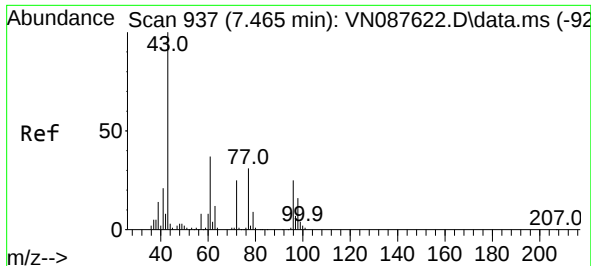
Tgt Ion: 76 Resp: 6093
Ion Ratio Lower Upper
76 100
78 8.6 7.6 11.4



#20
Methylene Chloride
Concen: Below Cal
RT: 5.265 min Scan# 563
Delta R.T. 0.000 min
Lab File: VN087852.D
Acq: 16 Sep 2025 16:08

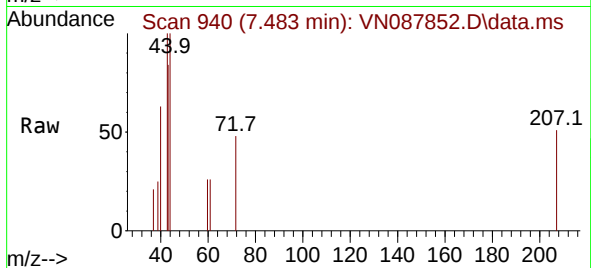
Tgt Ion: 84 Resp: 184
Ion Ratio Lower Upper
84 100
49 94.2 103.4 155.2#
51 0.0 33.8 50.8#
86 0.0 49.6 74.4#



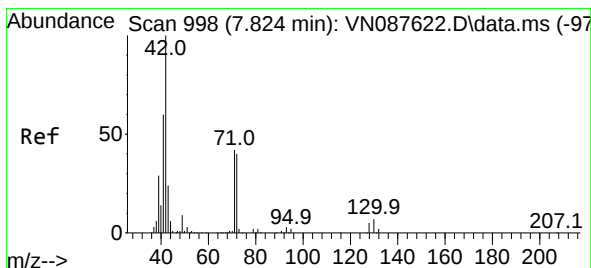
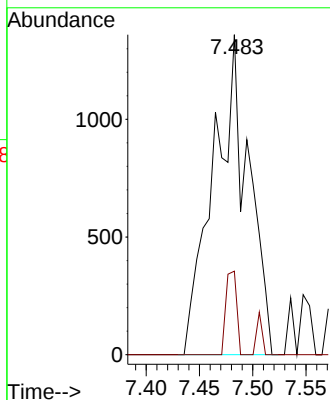
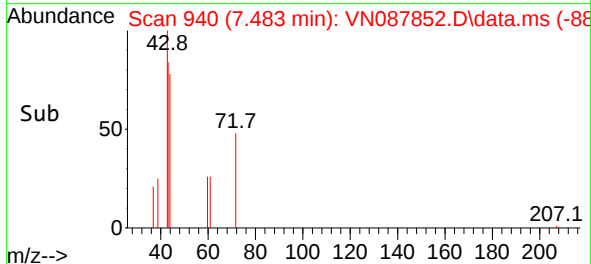


#25
2-Butanone
Concen: 1.203 ug/l
RT: 7.483 min Scan# 94
Delta R.T. 0.018 min
Lab File: VN087852.D
Acq: 16 Sep 2025 16:08

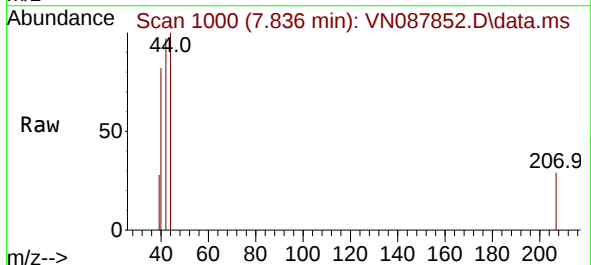
Instrument :
MSVOA_N
ClientSampleId :



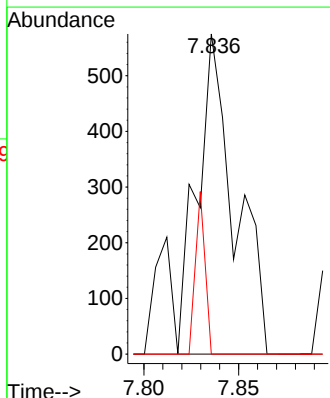
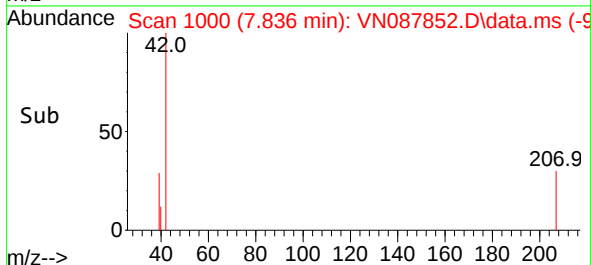
Tgt Ion: 43 Resp: 3111
Ion Ratio Lower Upper
43 100
72 26.1 19.9 29.9

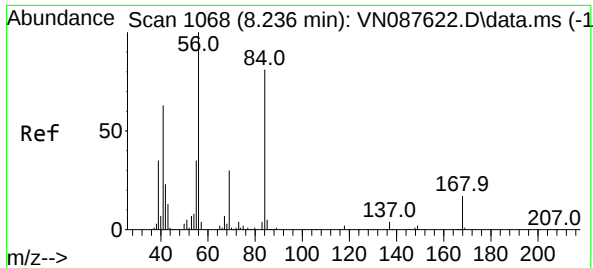


#29
Tetrahydrofuran
Concen: 0.478 ug/l
RT: 7.836 min Scan# 1000
Delta R.T. 0.012 min
Lab File: VN087852.D
Acq: 16 Sep 2025 16:08



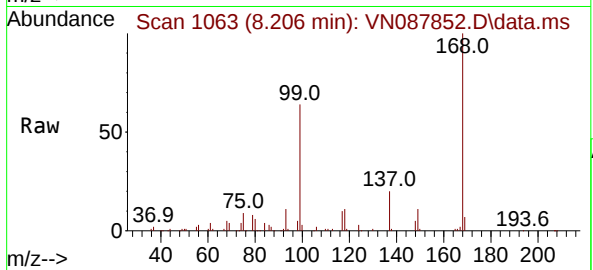
Tgt Ion: 42 Resp: 796
Ion Ratio Lower Upper
42 100
72 0.0 33.7 50.5#
71 12.9 31.9 47.9#



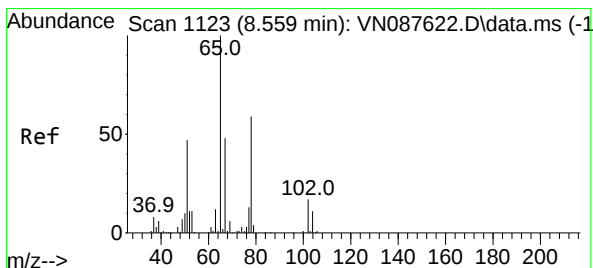
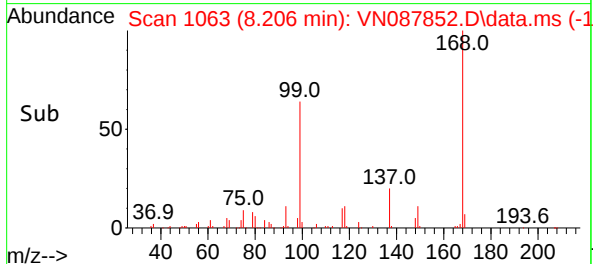
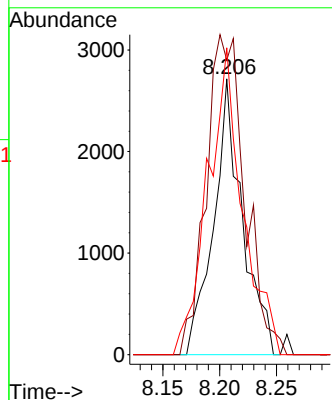


#31
Cyclohexane
Concen: 1.048 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. -0.029 min
Lab File: VN087852.D
Acq: 16 Sep 2025 16:08

Instrument :
MSVOA_N
ClientSampleId :

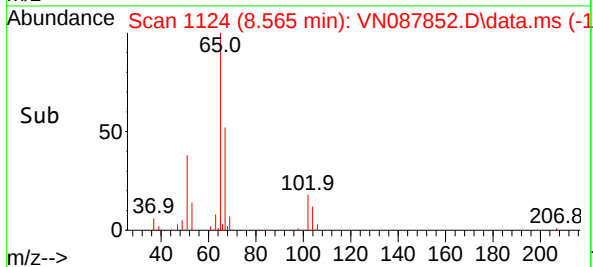
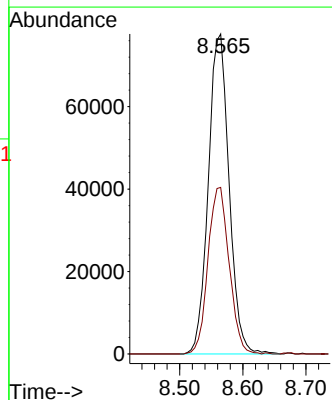
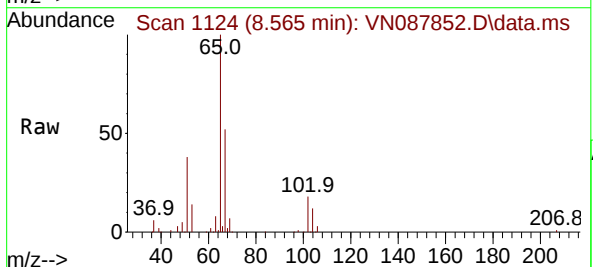


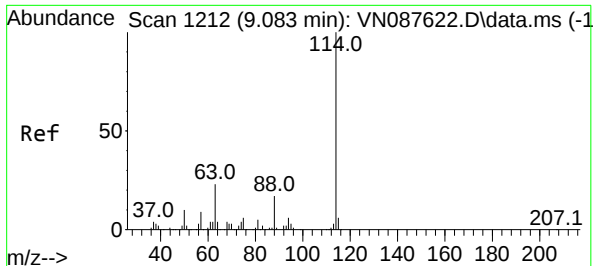
Tgt Ion: 56 Resp: 4759
Ion Ratio Lower Upper
56 100
69 106.8 23.7 35.5#
84 111.3 64.7 97.1#



#33
1,2-Dichloroethane-d4
Concen: 49.116 ug/l
RT: 8.565 min Scan# 1124
Delta R.T. 0.006 min
Lab File: VN087852.D
Acq: 16 Sep 2025 16:08

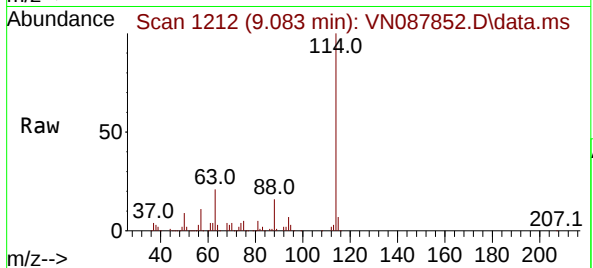
Tgt Ion: 65 Resp: 177396
Ion Ratio Lower Upper
65 100
67 53.0 0.0 100.0



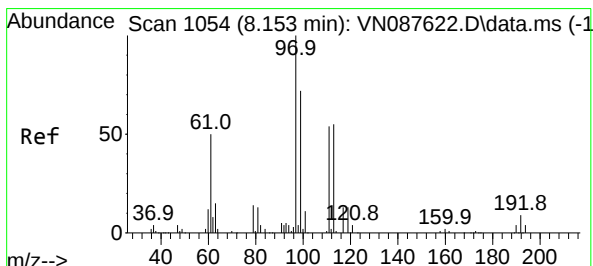
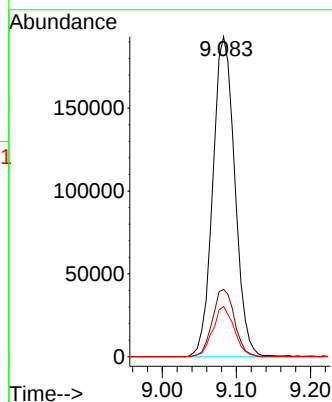
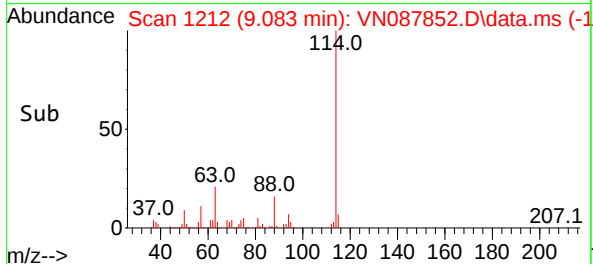


#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 9.083 min Scan# 11
 Delta R.T. -0.000 min
 Lab File: VN087852.D
 Acq: 16 Sep 2025 16:08

Instrument :
 MSVOA_N
 ClientSampleId :

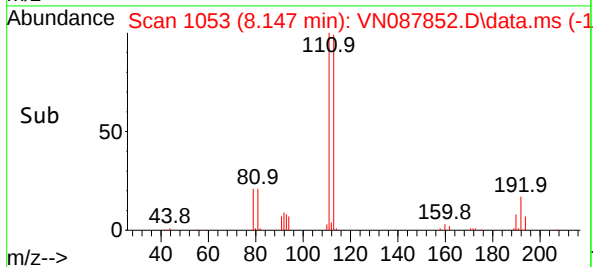
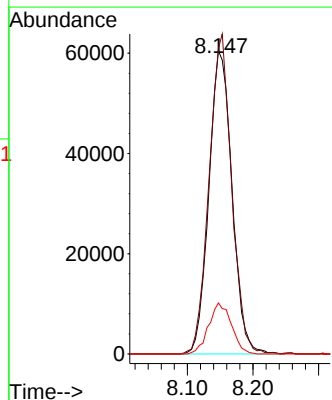
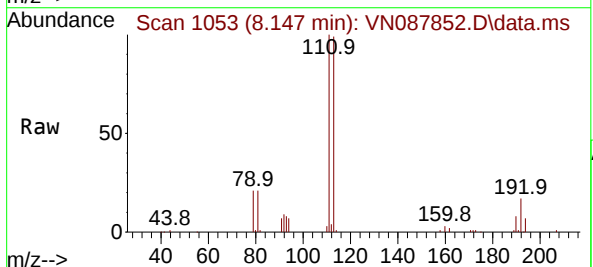


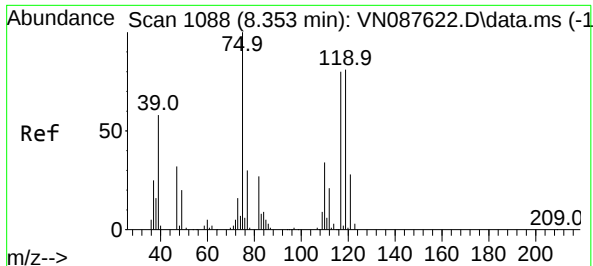
Tgt Ion:114 Resp: 397684
 Ion Ratio Lower Upper
 114 100
 63 21.0 0.0 45.2
 88 15.7 0.0 33.4



#35
 Dibromofluoromethane
 Concen: 51.564 ug/l
 RT: 8.147 min Scan# 1053
 Delta R.T. -0.006 min
 Lab File: VN087852.D
 Acq: 16 Sep 2025 16:08

Tgt Ion:113 Resp: 148054
 Ion Ratio Lower Upper
 113 100
 111 102.6 82.8 124.2
 192 16.6 12.8 19.2





#36

1,1-Dichloropropene

Concen: 3.785 ug/l

RT: 8.206 min Scan# 1063

Delta R.T. -0.147 min

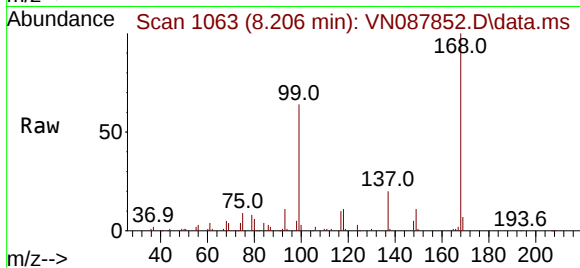
Lab File: VN087852.D

Acq: 16 Sep 2025 16:08

Instrument :

MSVOA_N

ClientSampleId :



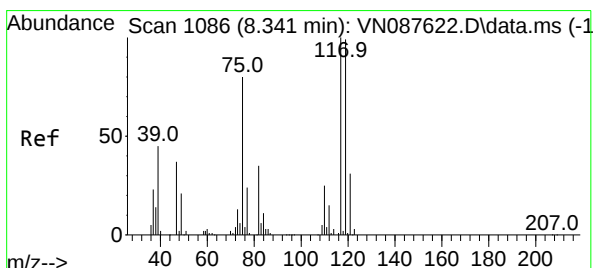
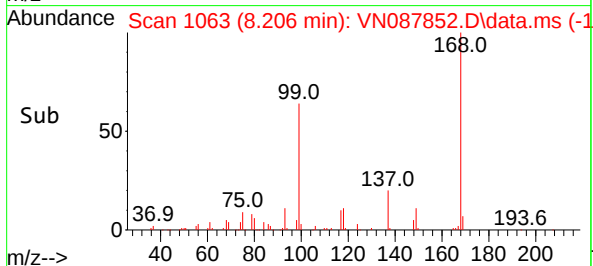
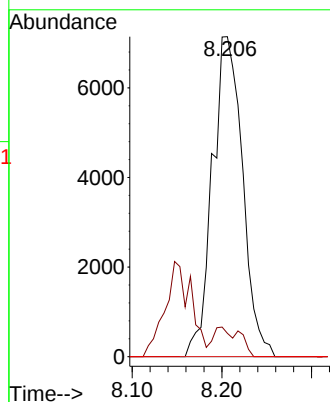
Tgt Ion: 75 Resp: 16673

Ion Ratio Lower Upper

75 100

110 8.1 15.9 47.6#

77 0.0 24.4 36.6#



#38

Carbon Tetrachloride

Concen: 4.578 ug/l

RT: 8.200 min Scan# 1062

Delta R.T. -0.141 min

Lab File: VN087852.D

Acq: 16 Sep 2025 16:08

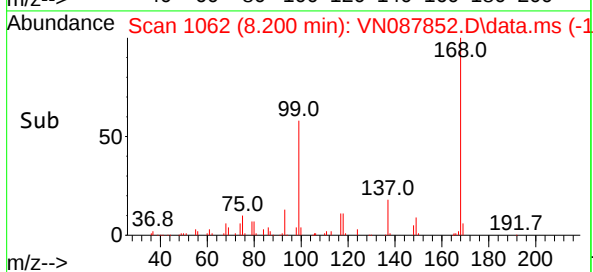
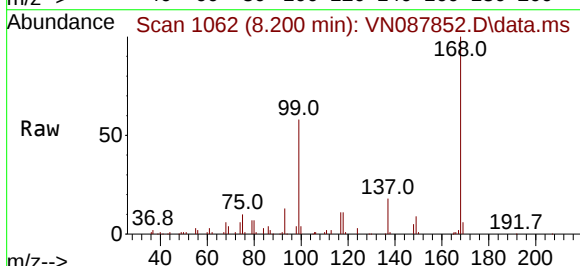
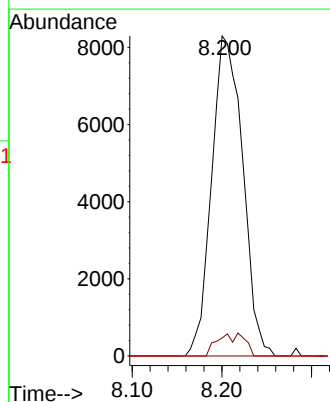
Tgt Ion: 117 Resp: 19912

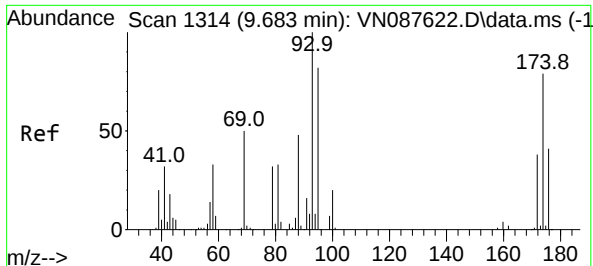
Ion Ratio Lower Upper

117 100

119 5.6 79.0 118.6#

121 0.0 25.0 37.6#





#49

1,4-Dioxane

Concen: 27.667 ug/l

RT: 9.694 min Scan# 1316

Delta R.T. 0.012 min

Lab File: VN087852.D

Acq: 16 Sep 2025 16:08

Instrument :

MSVOA_N

ClientSampleId :

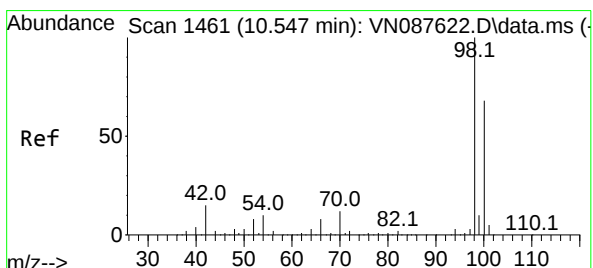
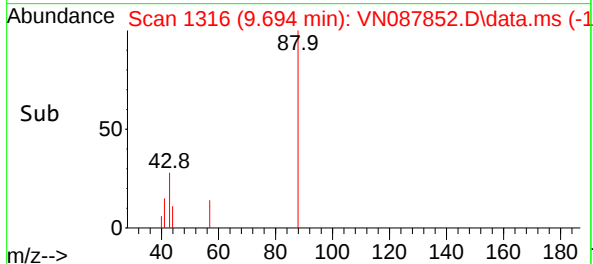
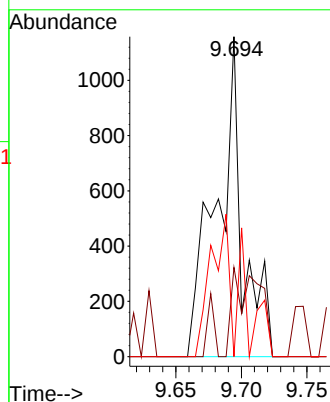
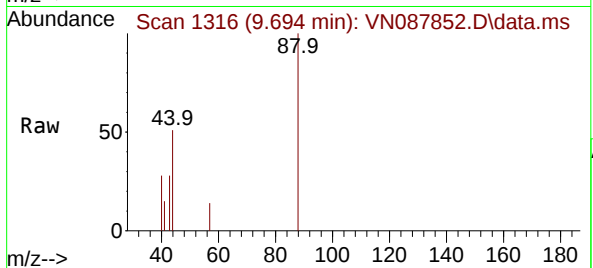
Tgt Ion: 88 Resp: 1594

Ion Ratio Lower Upper

88 100

43 28.4 0.0 0.0#

58 49.5 57.9 86.9#



#50

Toluene-d8

Concen: 47.201 ug/l

RT: 10.547 min Scan# 1461

Delta R.T. 0.000 min

Lab File: VN087852.D

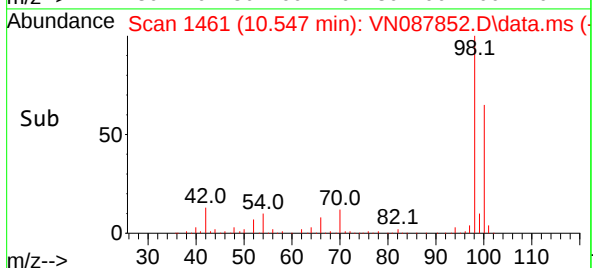
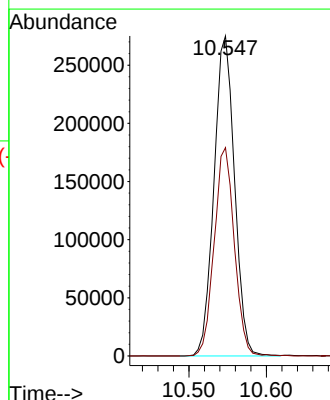
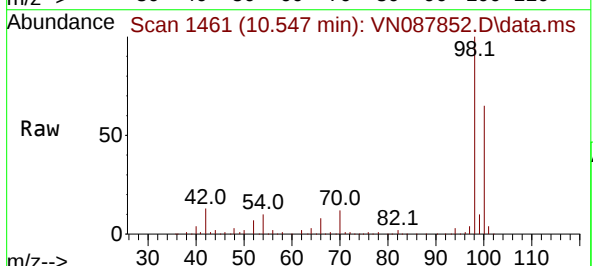
Acq: 16 Sep 2025 16:08

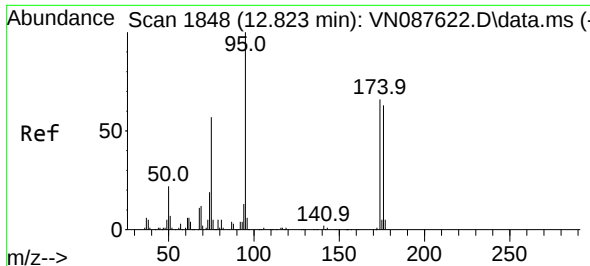
Tgt Ion: 98 Resp: 507250

Ion Ratio Lower Upper

98 100

100 63.8 52.8 79.2

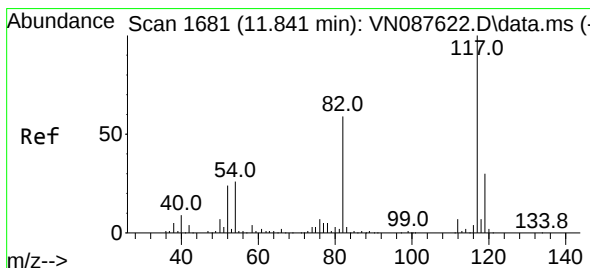
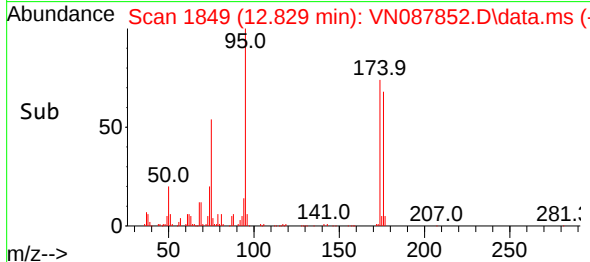
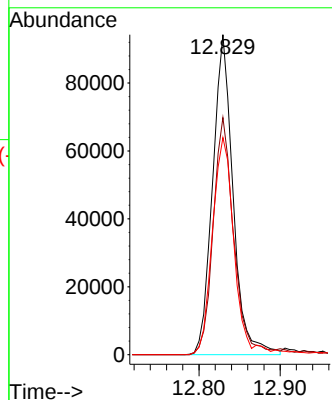
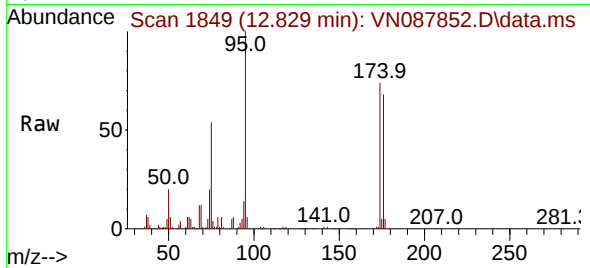




#62
4-Bromofluorobenzene
Concen: 43.117 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.006 min
Lab File: VN087852.D
Acq: 16 Sep 2025 16:08

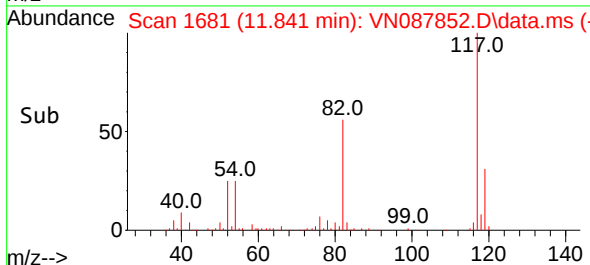
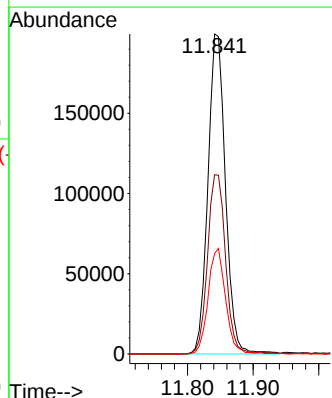
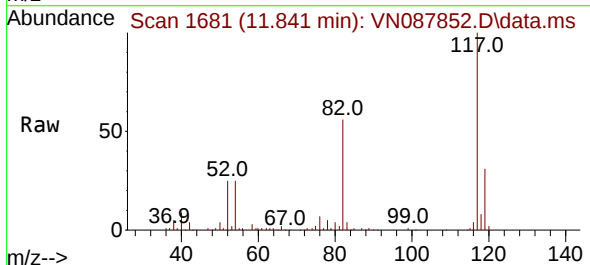
Instrument :
MSVOA_N
ClientSampleId :

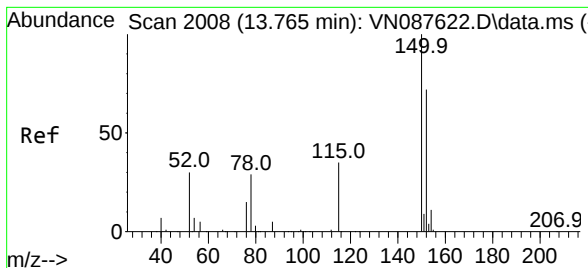
Tgt Ion: 95 Resp: 164786
Ion Ratio Lower Upper
95 100
174 74.6 0.0 138.4
176 72.8 0.0 132.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.841 min Scan# 1681
Delta R.T. 0.000 min
Lab File: VN087852.D
Acq: 16 Sep 2025 16:08

Tgt Ion: 117 Resp: 370407
Ion Ratio Lower Upper
117 100
82 56.0 47.4 71.2
119 31.3 24.3 36.5





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.770 min Scan# 20

Delta R.T. 0.006 min

Lab File: VN087852.D

Acq: 16 Sep 2025 16:08

Instrument :

MSVOA_N

ClientSampleId :

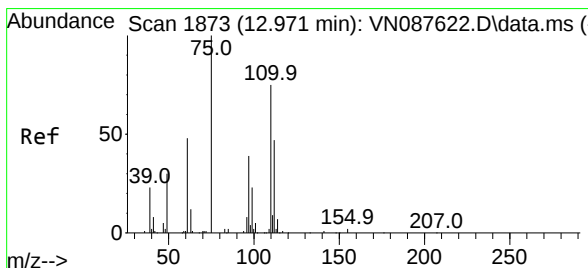
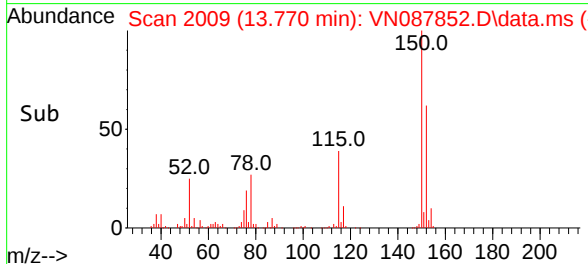
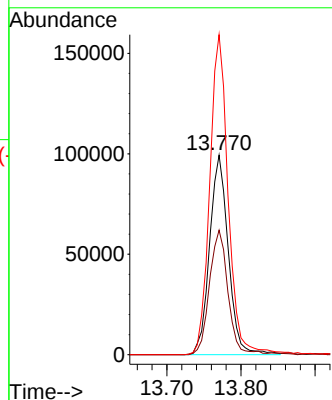
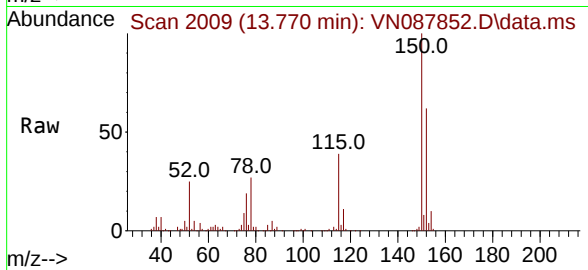
Tgt Ion:152 Resp: 174998

Ion Ratio Lower Upper

152 100

115 61.3 32.3 96.8

150 158.2 0.0 351.0



#76

1,2,3-Trichloropropane

Concen: 23.013 ug/l

RT: 12.829 min Scan# 1849

Delta R.T. -0.141 min

Lab File: VN087852.D

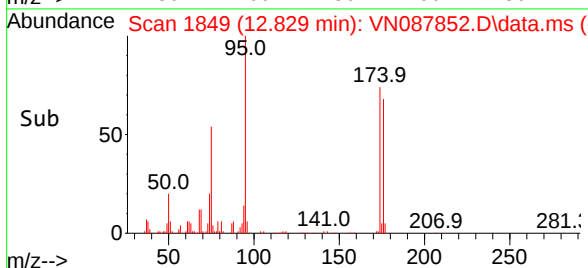
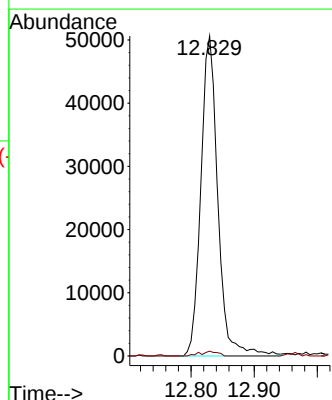
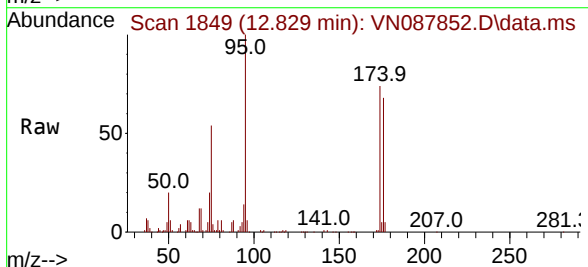
Acq: 16 Sep 2025 16:08

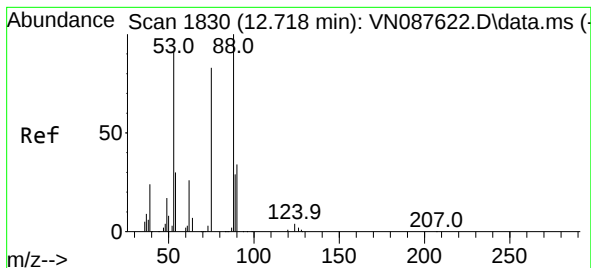
Tgt Ion: 75 Resp: 94439

Ion Ratio Lower Upper

75 100

77 1.5 89.1 267.4#

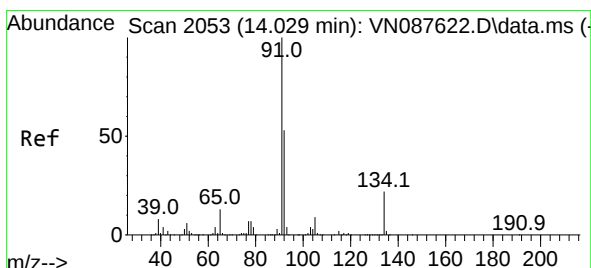
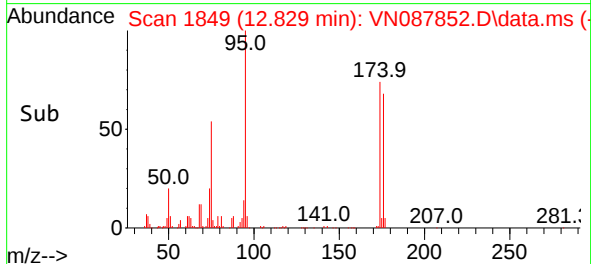
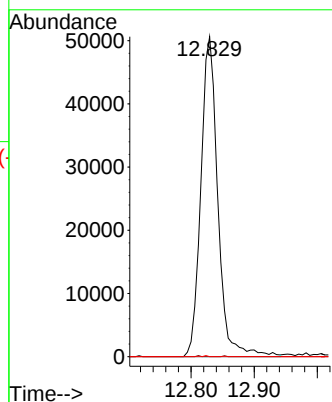
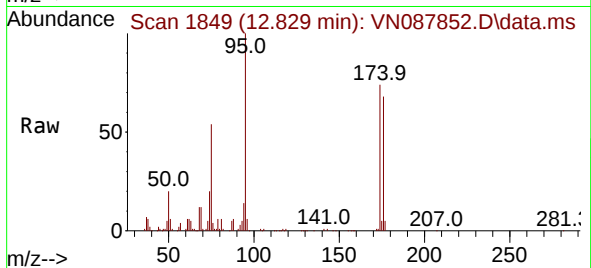




#81
trans-1,4-Dichloro-2-butene
Concen: 60.923 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.112 min
Lab File: VN087852.D
Acq: 16 Sep 2025 16:08

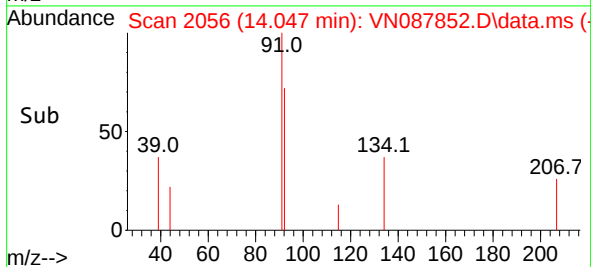
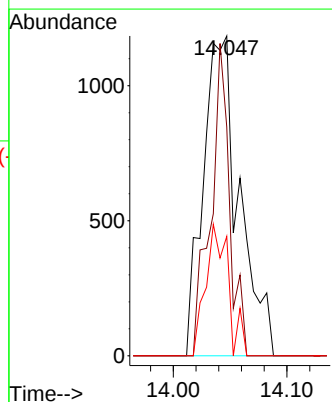
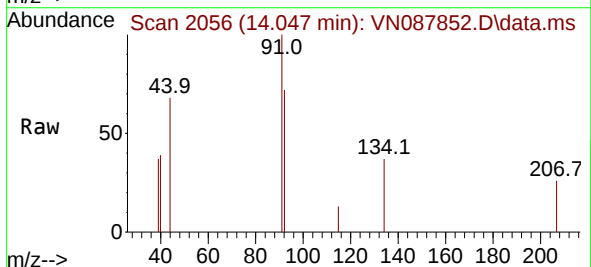
Instrument :
MSVOA_N
ClientSampleId :

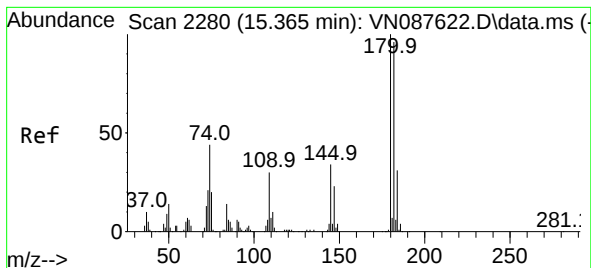
Tgt Ion: 75 Resp: 94439
Ion Ratio Lower Upper
75 100
53 0.1 101.8 152.6#
89 0.1 35.6 53.4#



#89
n-Butylbenzene
Concen: 0.214 ug/l
RT: 14.047 min Scan# 2056
Delta R.T. 0.018 min
Lab File: VN087852.D
Acq: 16 Sep 2025 16:08

Tgt Ion: 91 Resp: 2604
Ion Ratio Lower Upper
91 100
92 51.4 25.9 77.8
134 26.0 11.7 35.0





#93

1,2,4-Trichlorobenzene

Concen: 0.324 ug/l

RT: 15.370 min Scan# 21

Delta R.T. 0.006 min

Lab File: VN087852.D

Acq: 16 Sep 2025 16:08

Instrument :

MSVOA_N

ClientSampleId :

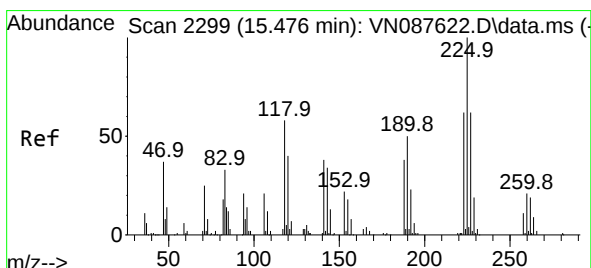
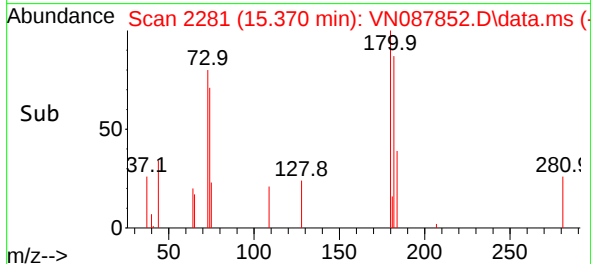
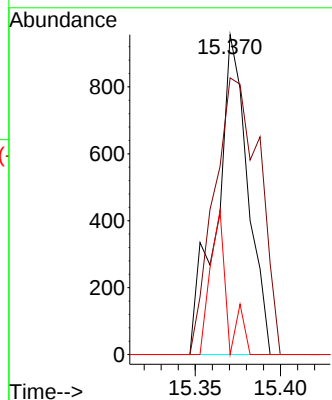
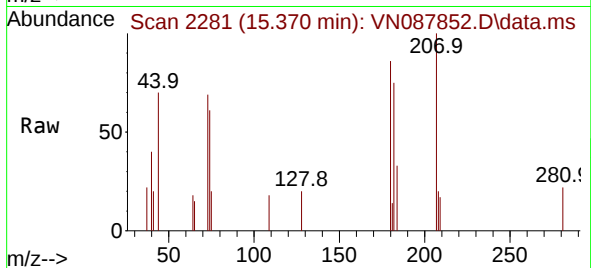
Tgt Ion:180 Resp: 1212

Ion Ratio Lower Upper

180 100

182 125.4 47.6 142.9

145 24.5 16.5 49.5



#94

Hexachlorobutadiene

Concen: 0.742 ug/l

RT: 15.476 min Scan# 2299

Delta R.T. -0.000 min

Lab File: VN087852.D

Acq: 16 Sep 2025 16:08

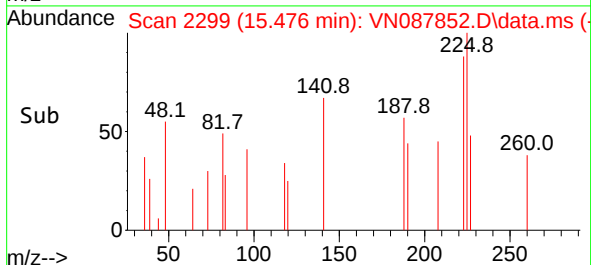
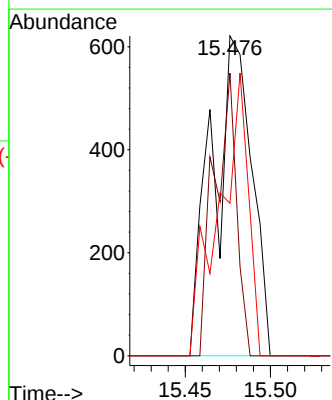
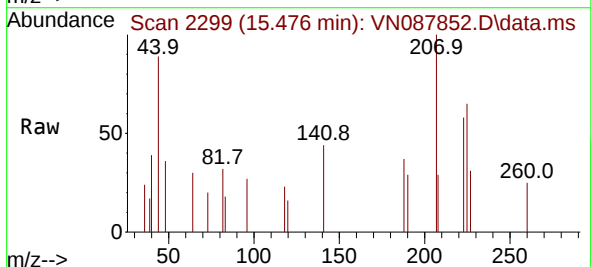
Tgt Ion:225 Resp: 990

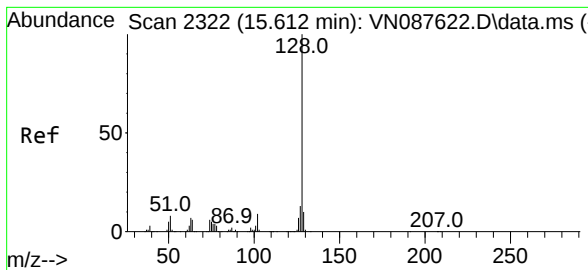
Ion Ratio Lower Upper

225 100

223 50.1 32.0 96.2

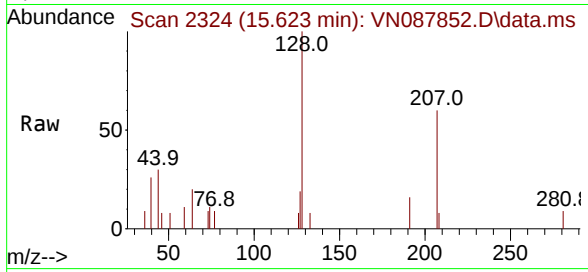
227 66.0 32.1 96.5





#95
Naphthalene
Concen: 0.274 ug/l
RT: 15.623 min Scan# 21
Delta R.T. 0.012 min
Lab File: VN087852.D
Acq: 16 Sep 2025 16:08

Instrument :
MSVOA_N
ClientSampleId :



Tgt Ion:	128	Resp:	3636
Ion	Ratio	Lower	Upper
128	100		
127	14.7	10.6	15.8
129	1.5	8.6	12.8#

