

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081425\
 Data File : VN087560.D
 Acq On : 14 Aug 2025 13:08
 Operator : JC\MD
 Sample : Q2836-05RE
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Aug 14 15:24:41 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)

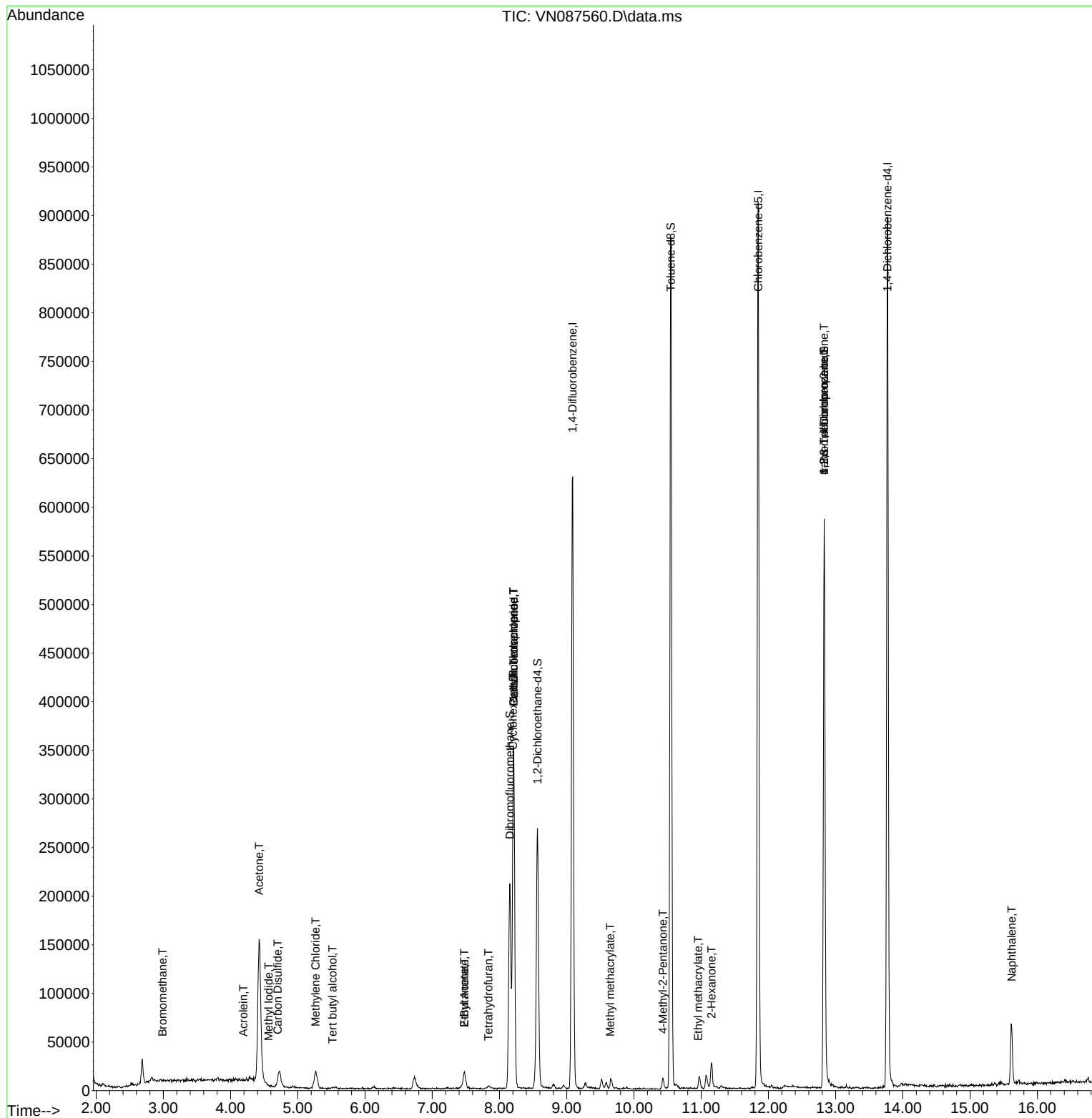
Internal Standards							
1) Pentafluorobenzene		8.212	168	240660	50.000	ug/l	0.00
34) 1,4-Difluorobenzene		9.088	114	521243	50.000	ug/l	0.00
63) Chlorobenzene-d5		11.847	117	482653	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4		13.770	152	220545	50.000	ug/l	0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4		8.565	65	219663	53.793	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	107.580%	
35) Dibromofluoromethane		8.153	113	147568	41.042	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	82.080%	
50) Toluene-d8		10.547	98	576483	44.948	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	89.900%	
62) 4-Bromofluorobenzene		12.829	95	206736	43.629	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	87.260%	
Target Compounds							
						Qvalue	
5) Bromomethane		2.989	94	411	0.248	ug/l #	66
10) Methyl Iodide		4.565	142	71	5.657	ug/l #	40
11) Tert butyl alcohol		5.518	59	350	0.451	ug/l #	72
13) Acrolein		4.189	56	922	1.482	ug/l #	57
16) Acetone		4.424	43	292143	152.585	ug/l	99
17) Carbon Disulfide		4.700	76	2390	0.293	ug/l #	71
20) Methylene Chloride		5.265	84	12939	3.401	ug/l #	91
25) 2-Butanone		7.477	43	30083	10.169	ug/l #	90
29) Tetrahydrofuran		7.836	42	2116	1.101	ug/l #	90
31) Cyclohexane		8.200	56	7227	1.440	ug/l #	21
36) 1,1-Dichloropropene		8.206	75	23626	4.974	ug/l #	52
37) Ethyl Acetate		7.477	43	30083	4.385	ug/l #	70
38) Carbon Tetrachloride		8.212	117	26276	5.021	ug/l #	13
48) Methyl methacrylate		9.647	41	1879	0.392	ug/l #	41
51) 4-Methyl-2-Pentanone		10.430	43	9718	1.443	ug/l #	85
56) Ethyl methacrylate		10.953	69	67	0.646	ug/l #	24
59) 2-Hexanone		11.153	43	20565	4.602	ug/l #	25
76) 1,2,3-Trichloropropane		12.829	75	125159	25.307	ug/l #	1
81) trans-1,4-Dichloro-2-b...		12.829	75	125159	69.245	ug/l #	8
95) Naphthalene		15.617	128	55775	4.004	ug/l	97

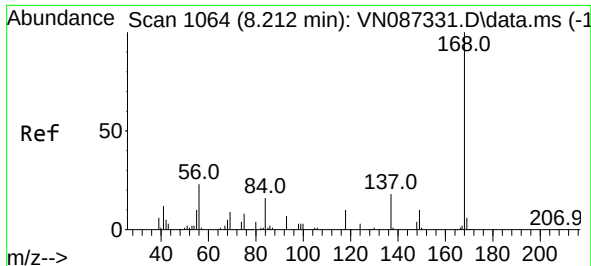
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA_N
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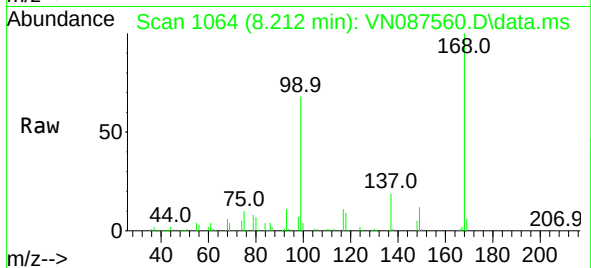
Quant Time: Aug 14 15:24:41 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071625W.M
Quant Title : SW846 8260
QLast Update : Thu Jul 17 02:56:13 2025
Response via : Initial Calibration



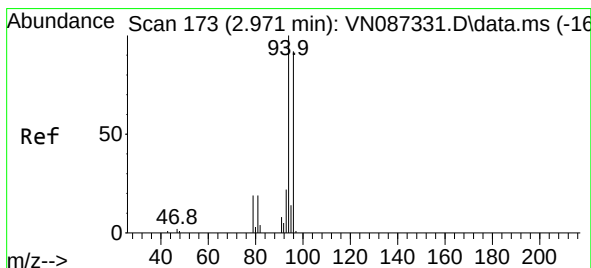
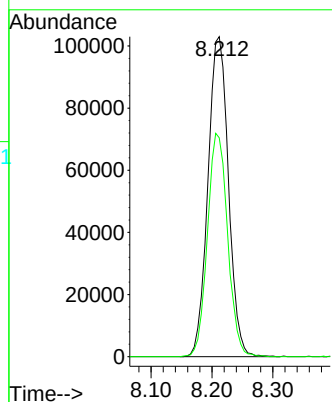
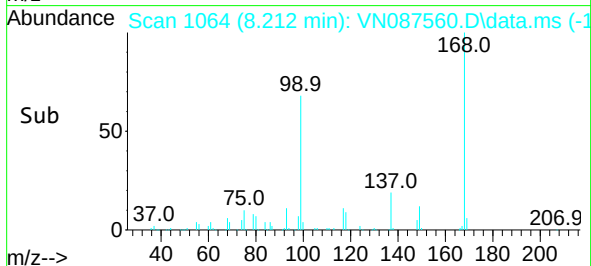


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.212 min Scan# 1064
Delta R.T. 0.000 min
Lab File: VN087560.D
Acq: 14 Aug 2025 13:08

Instrument :
MSVOA_N
ClientSampleId :

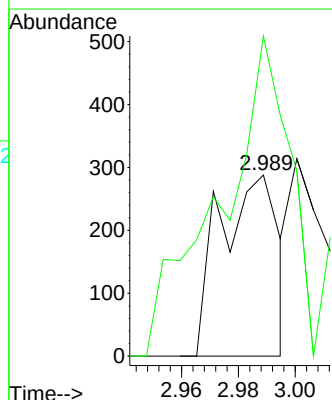
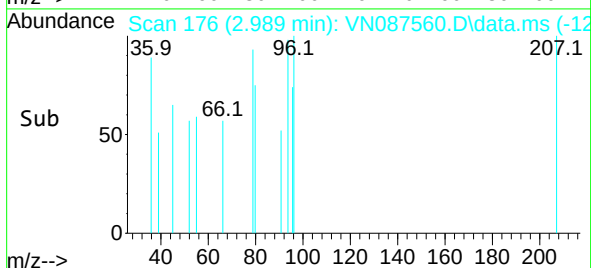
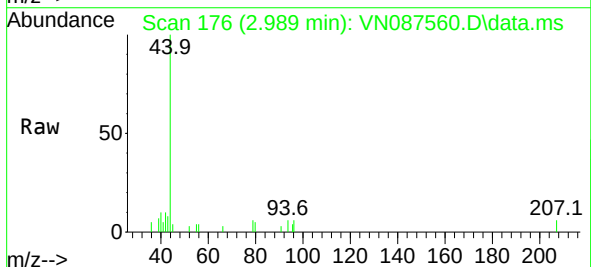


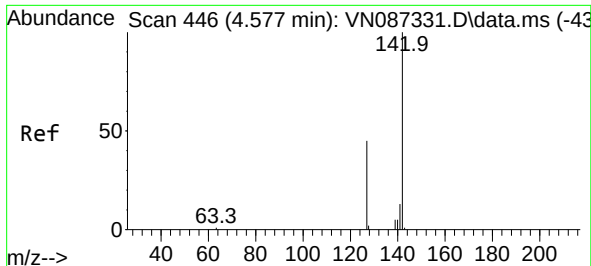
Tgt Ion:168 Resp: 240660
Ion Ratio Lower Upper
168 100
99 68.4 47.9 71.9



#5
Bromomethane
Concen: 0.248 ug/l
RT: 2.989 min Scan# 176
Delta R.T. 0.018 min
Lab File: VN087560.D
Acq: 14 Aug 2025 13:08

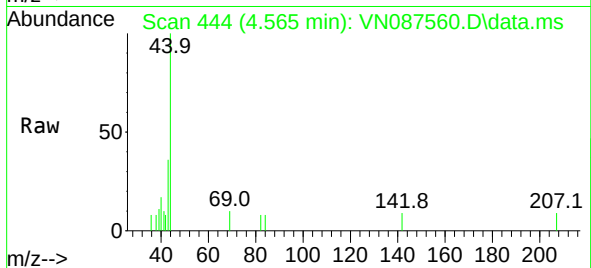
Tgt Ion: 94 Resp: 411
Ion Ratio Lower Upper
94 100
96 124.0 73.4 110.2#



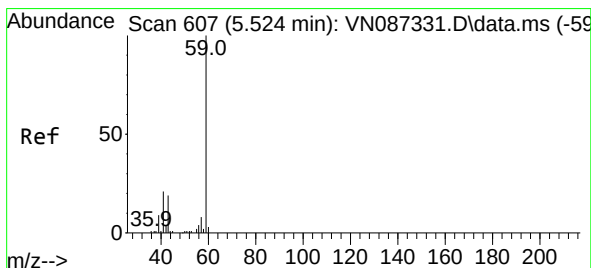
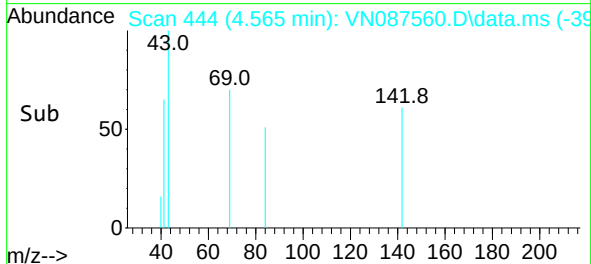
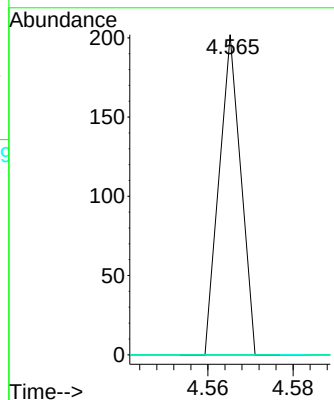


#10
Methyl Iodide
Concen: 5.657 ug/l
RT: 4.565 min Scan# 446
Delta R.T. -0.012 min
Lab File: VN087560.D
Acq: 14 Aug 2025 13:08

Instrument :
MSVOA_N
ClientSampleId :

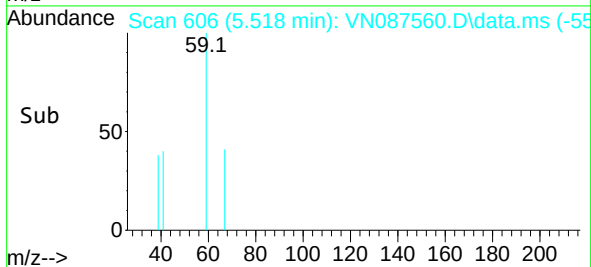
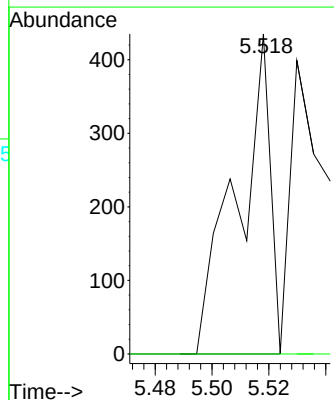
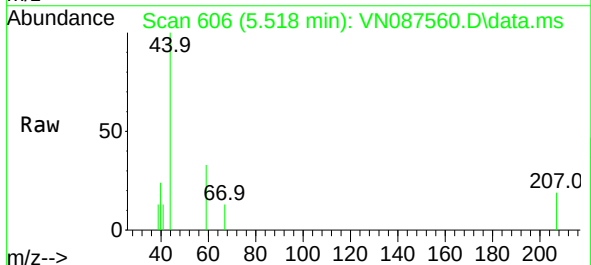


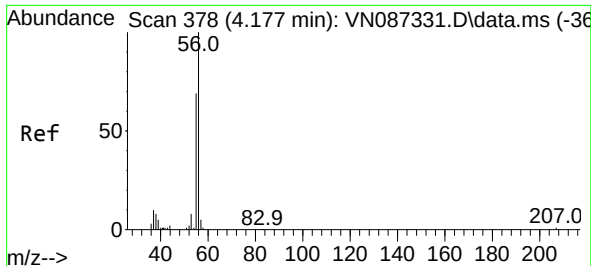
Tgt Ion:142 Resp: 71
Ion Ratio Lower Upper
142 100
127 0.0 35.7 53.5#
141 0.0 10.4 15.6#



#11
Tert butyl alcohol
Concen: 0.451 ug/l
RT: 5.518 min Scan# 606
Delta R.T. -0.006 min
Lab File: VN087560.D
Acq: 14 Aug 2025 13:08

Tgt Ion: 59 Resp: 350
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#

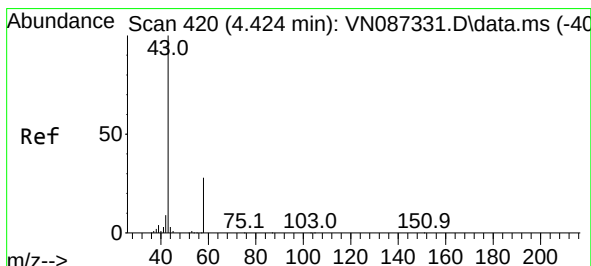
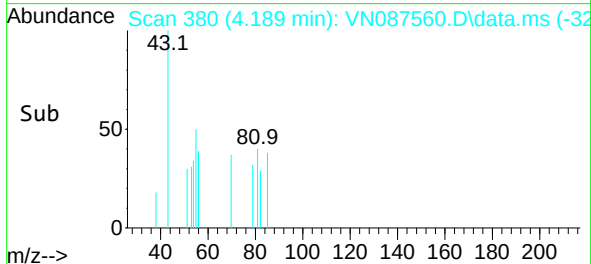
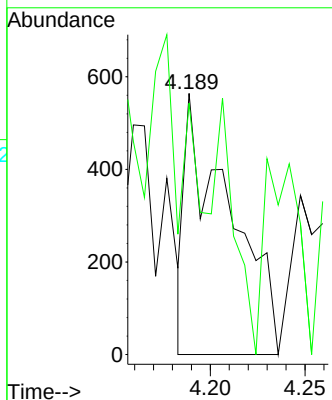
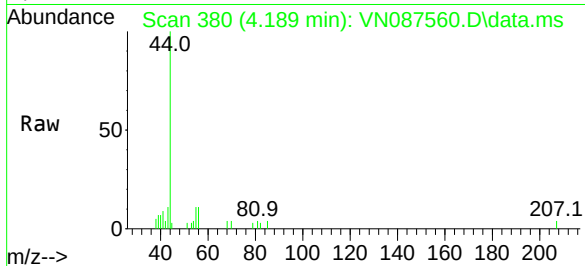




#13
Acrolein
Concen: 1.482 ug/l
RT: 4.189 min Scan# 31
Delta R.T. 0.012 min
Lab File: VN087560.D
Acq: 14 Aug 2025 13:08

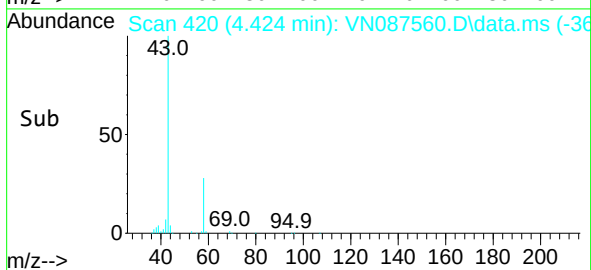
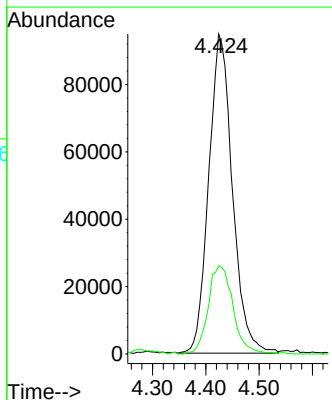
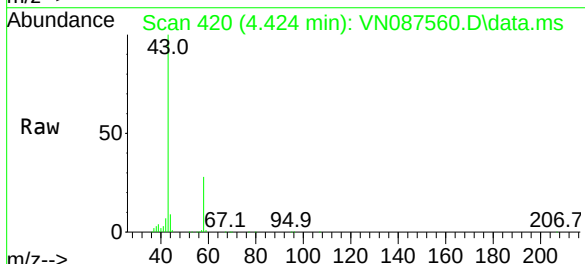
Instrument :
MSVOA_N
ClientSampleId :

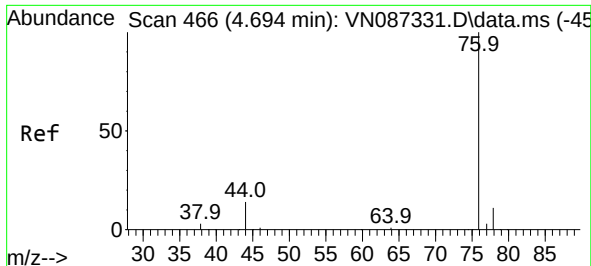
Tgt Ion: 56 Resp: 922
Ion Ratio Lower Upper
56 100
55 35.2 56.2 84.4#



#16
Acetone
Concen: 152.585 ug/l
RT: 4.424 min Scan# 420
Delta R.T. 0.000 min
Lab File: VN087560.D
Acq: 14 Aug 2025 13:08

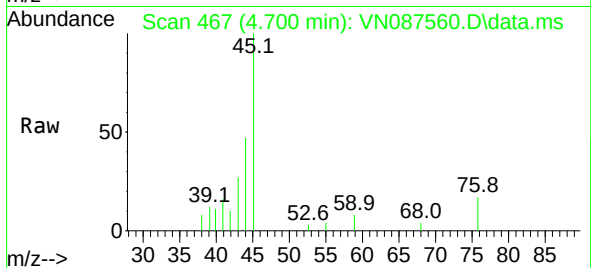
Tgt Ion: 43 Resp: 292143
Ion Ratio Lower Upper
43 100
58 27.6 22.3 33.5



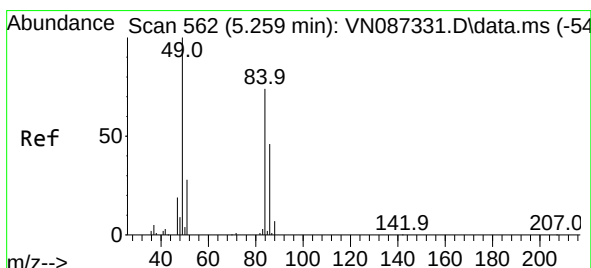
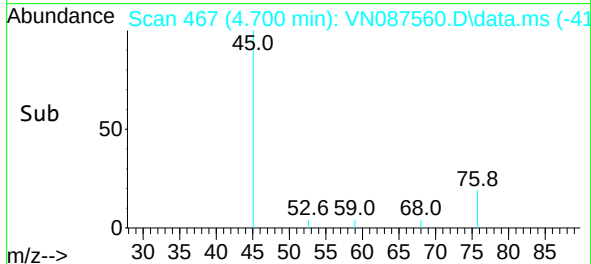
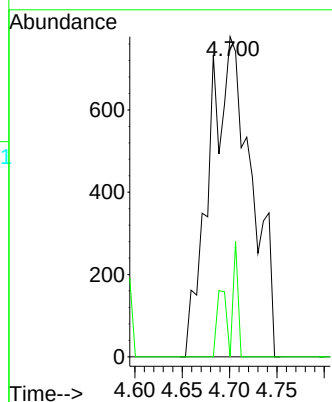


#17
Carbon Disulfide
Concen: 0.293 ug/l
RT: 4.700 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN087560.D
Acq: 14 Aug 2025 13:08

Instrument :
MSVOA_N
ClientSampleId :

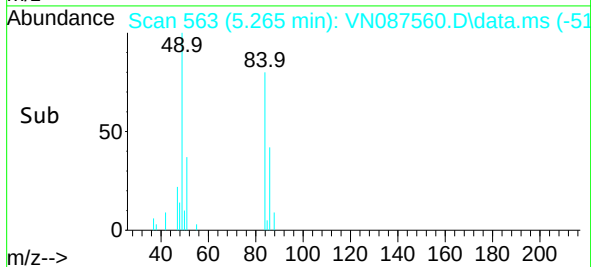
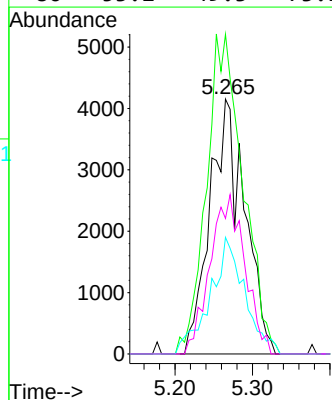
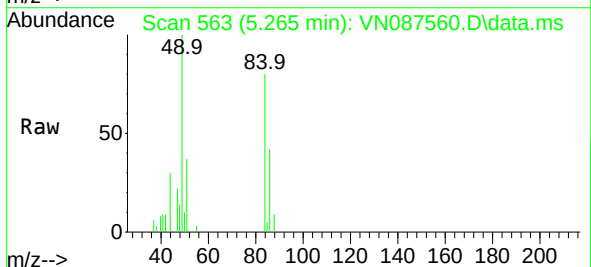


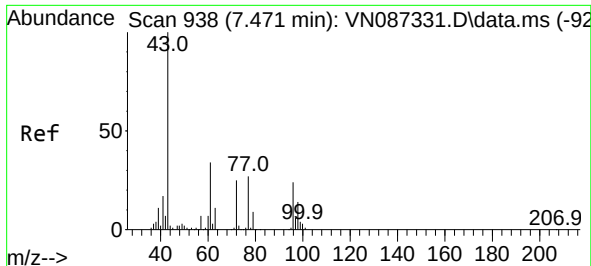
Tgt Ion: 76 Resp: 2390
Ion Ratio Lower Upper
76 100
78 0.0 8.6 13.0#



#20
Methylene Chloride
Concen: 3.401 ug/l
RT: 5.265 min Scan# 563
Delta R.T. 0.006 min
Lab File: VN087560.D
Acq: 14 Aug 2025 13:08

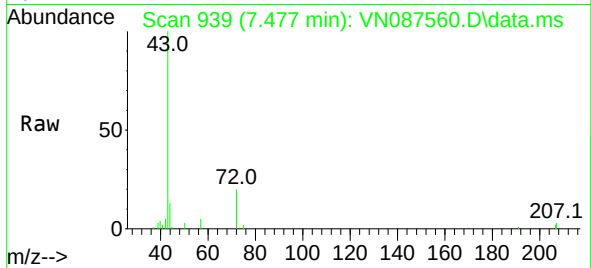
Tgt Ion: 84 Resp: 12939
Ion Ratio Lower Upper
84 100
49 125.4 107.5 161.3
51 45.8 30.2 45.2#
86 53.2 49.3 73.9



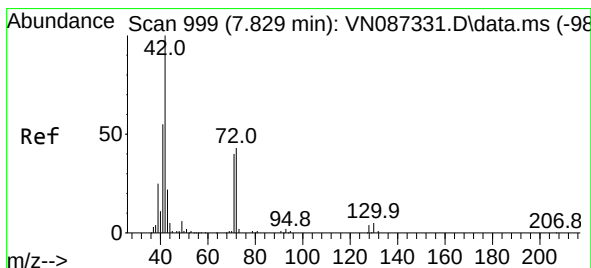
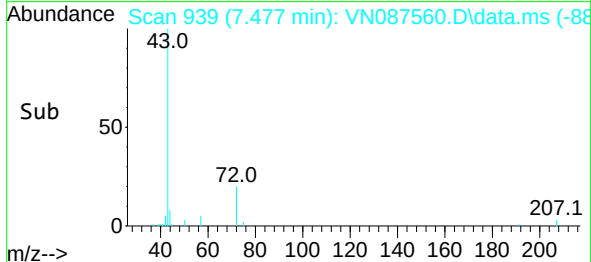
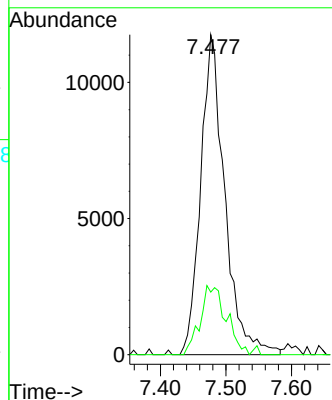


#25
2-Butanone
Concen: 10.169 ug/l
RT: 7.477 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN087560.D
Acq: 14 Aug 2025 13:08

Instrument :
MSVOA_N
ClientSampleId :

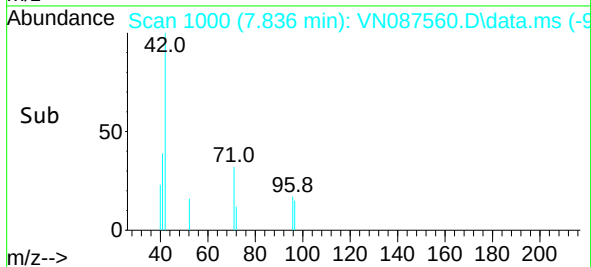
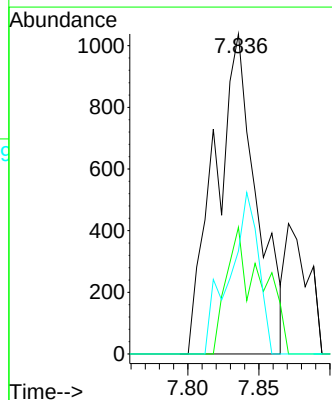
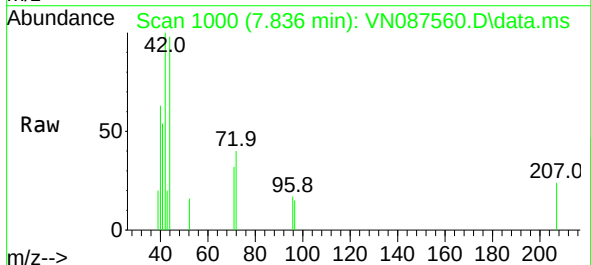


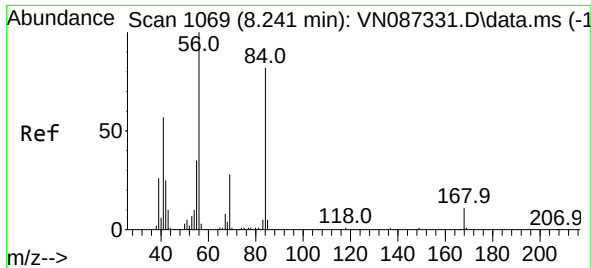
Tgt Ion: 43 Resp: 30083
Ion Ratio Lower Upper
43 100
72 19.6 19.6 29.4#



#29
Tetrahydrofuran
Concen: 1.101 ug/l
RT: 7.836 min Scan# 1000
Delta R.T. 0.006 min
Lab File: VN087560.D
Acq: 14 Aug 2025 13:08

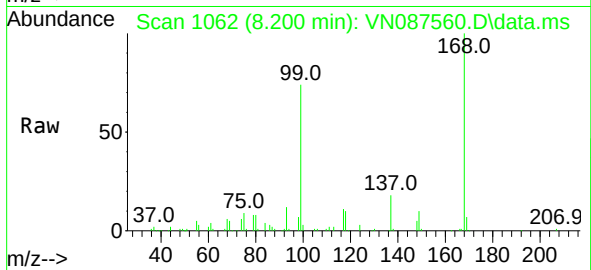
Tgt Ion: 42 Resp: 2116
Ion Ratio Lower Upper
42 100
72 33.2 33.4 50.0#
71 35.3 31.2 46.8



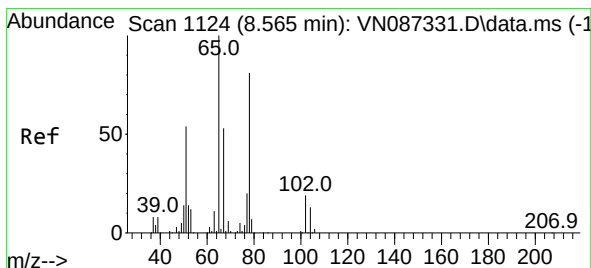
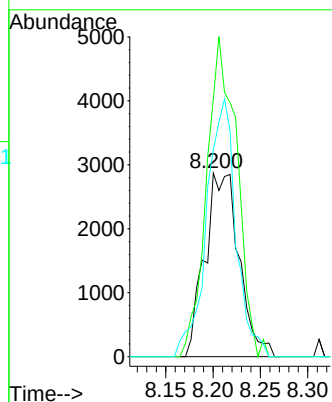
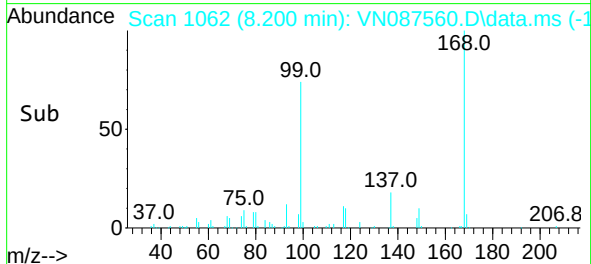


#31
Cyclohexane
Concen: 1.440 ug/l
RT: 8.200 min Scan# 1069
Delta R.T. -0.041 min
Lab File: VN087560.D
Acq: 14 Aug 2025 13:08

Instrument :
MSVOA_N
ClientSampleId :

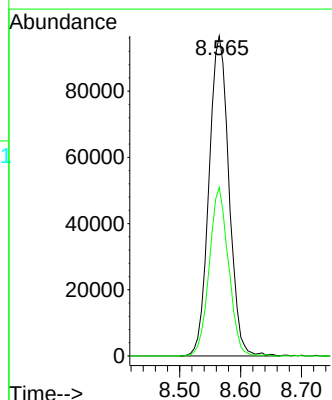
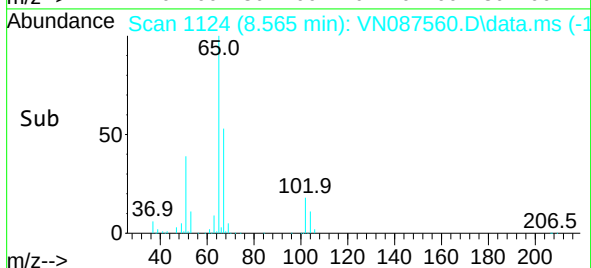
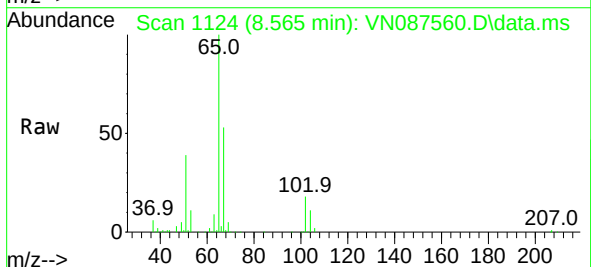


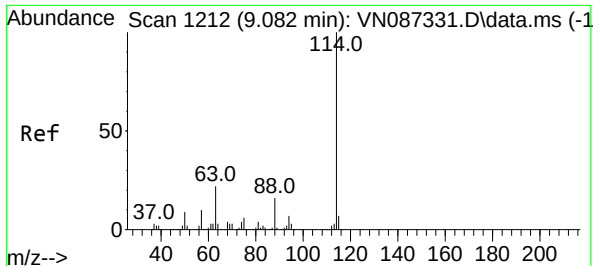
Tgt Ion: 56 Resp: 7227
Ion Ratio Lower Upper
56 100
69 140.2 22.7 34.1#
84 112.6 65.8 98.6#



#33
1,2-Dichloroethane-d4
Concen: 53.793 ug/l
RT: 8.565 min Scan# 1124
Delta R.T. 0.000 min
Lab File: VN087560.D
Acq: 14 Aug 2025 13:08

Tgt Ion: 65 Resp: 219663
Ion Ratio Lower Upper
65 100
67 50.7 0.0 104.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.088 min Scan# 11

Delta R.T. 0.006 min

Lab File: VN087560.D

Acq: 14 Aug 2025 13:08

Instrument :

MSVOA_N

ClientSampleId :

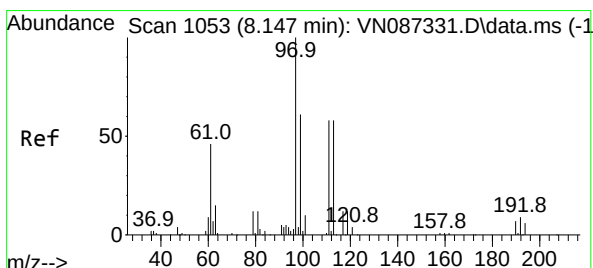
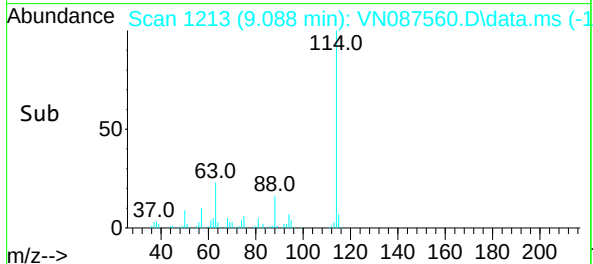
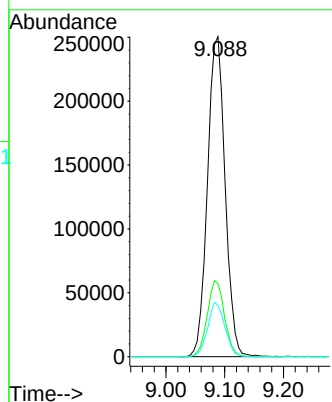
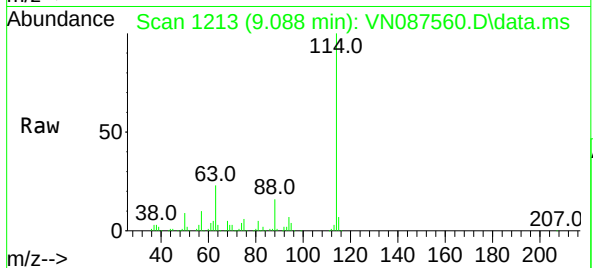
Tgt Ion:114 Resp: 521243

Ion Ratio Lower Upper

114 100

63 22.9 0.0 44.6

88 16.0 0.0 32.8



#35

Dibromofluoromethane

Concen: 41.042 ug/l

RT: 8.153 min Scan# 1054

Delta R.T. 0.006 min

Lab File: VN087560.D

Acq: 14 Aug 2025 13:08

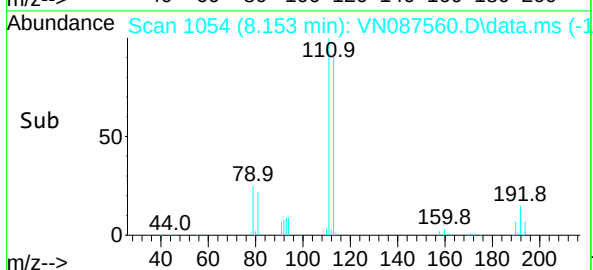
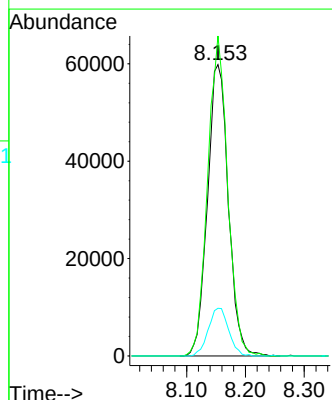
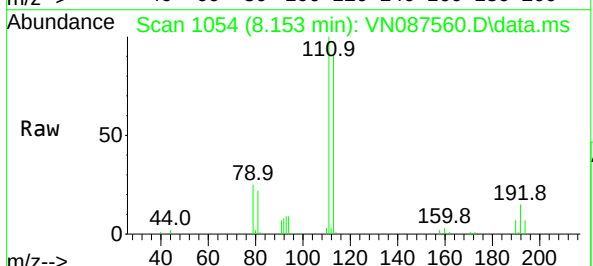
Tgt Ion:113 Resp: 147568

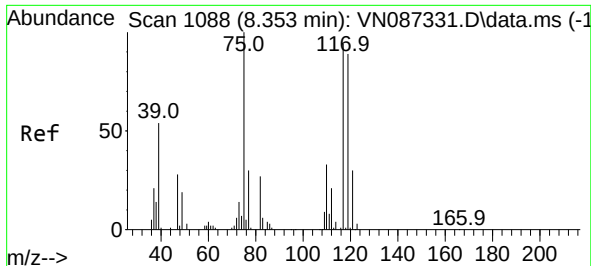
Ion Ratio Lower Upper

113 100

111 105.2 82.5 123.7

192 16.0 13.7 20.5





#36

1,1-Dichloropropene

Concen: 4.974 ug/l

RT: 8.206 min Scan# 1

Delta R.T. -0.147 min

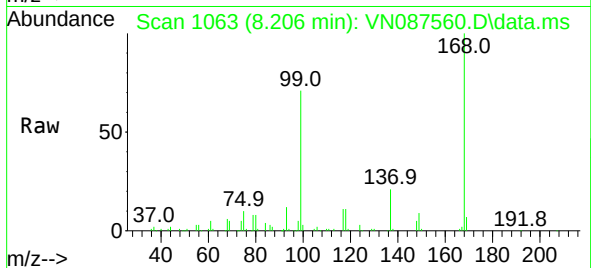
Lab File: VN087560.D

Acq: 14 Aug 2025 13:08

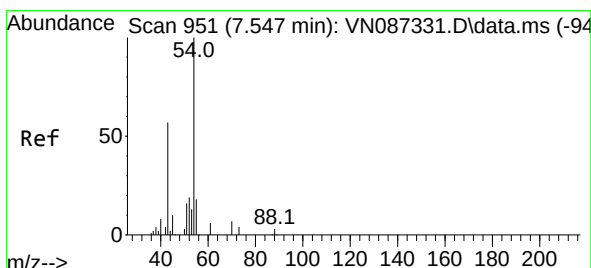
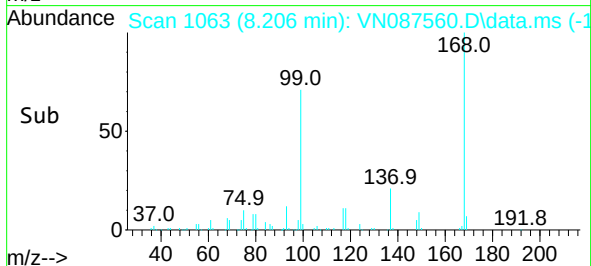
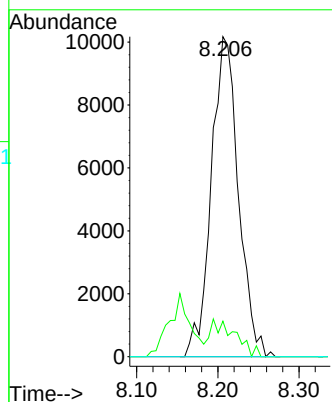
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	75	Resp:	23626
Ion	Ratio	Lower	Upper
75	100		
110	10.7	16.7	50.1#
77	0.0	25.2	37.8#



#37

Ethyl Acetate

Concen: 4.385 ug/l

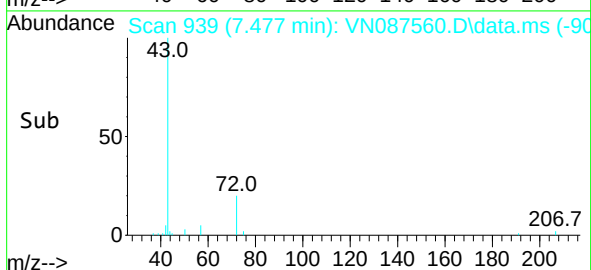
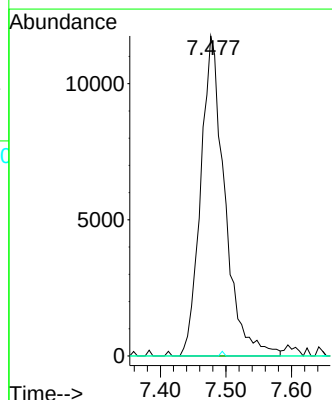
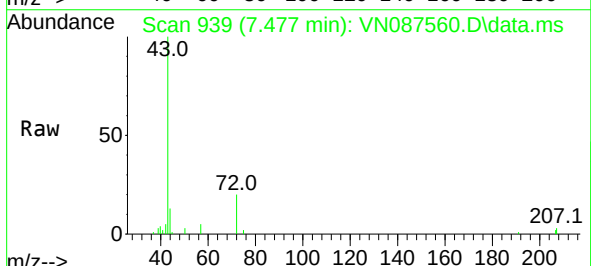
RT: 7.477 min Scan# 939

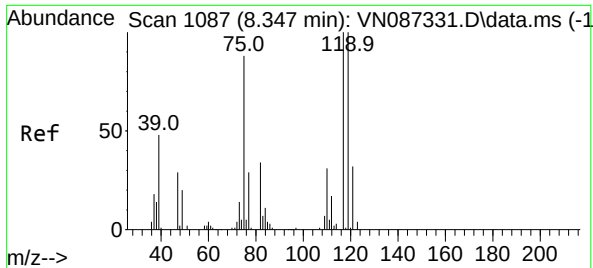
Delta R.T. -0.070 min

Lab File: VN087560.D

Acq: 14 Aug 2025 13:08

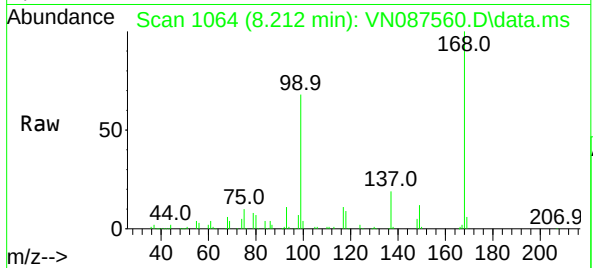
Tgt Ion:	43	Resp:	30083
Ion	Ratio	Lower	Upper
43	100		
61	0.0	10.9	16.3#
70	0.2	7.4	11.0#



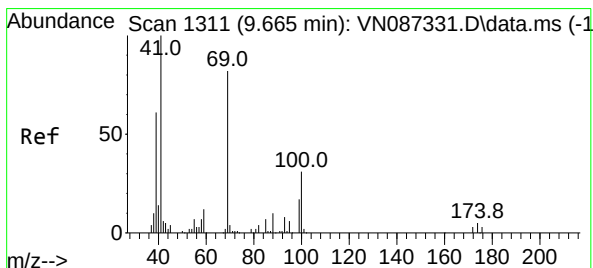
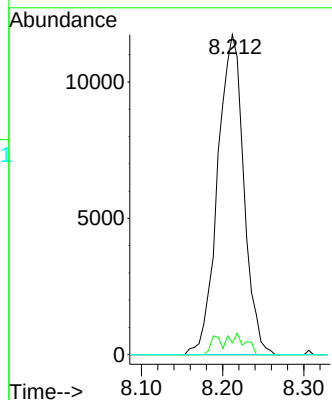
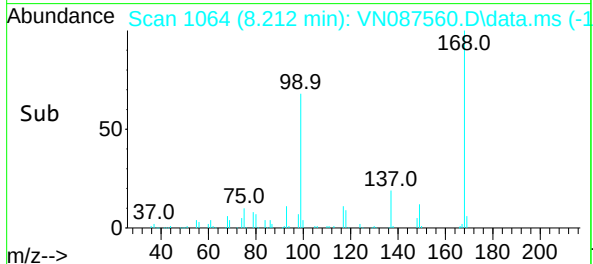


#38
Carbon Tetrachloride
Concen: 5.021 ug/l
RT: 8.212 min Scan# 1064
Delta R.T. -0.135 min
Lab File: VN087560.D
Acq: 14 Aug 2025 13:08

Instrument :
MSVOA_N
ClientSampleId :

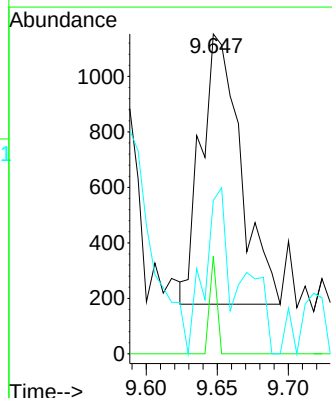
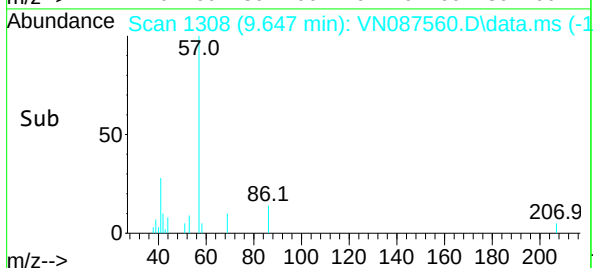
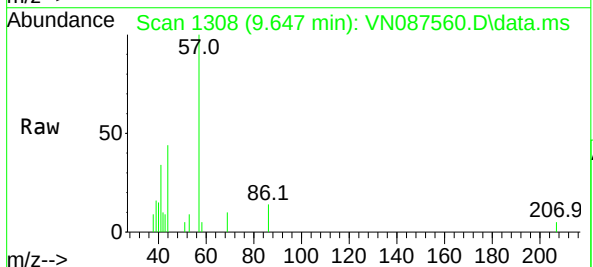


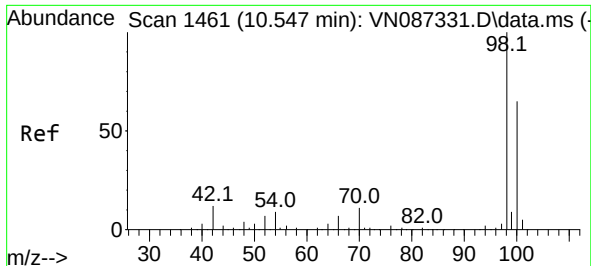
Tgt Ion: 117 Resp: 26276
Ion Ratio Lower Upper
117 100
119 3.7 80.2 120.2#
121 0.0 25.4 38.2#



#48
Methyl methacrylate
Concen: 0.392 ug/l
RT: 9.647 min Scan# 1308
Delta R.T. -0.017 min
Lab File: VN087560.D
Acq: 14 Aug 2025 13:08

Tgt Ion: 41 Resp: 1879
Ion Ratio Lower Upper
41 100
69 6.6 64.1 96.1#
39 38.6 45.5 68.3#

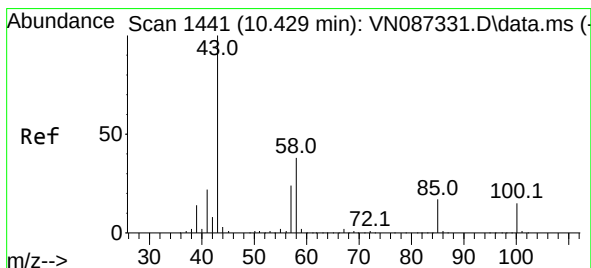
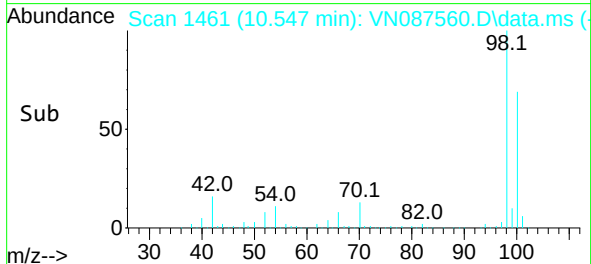
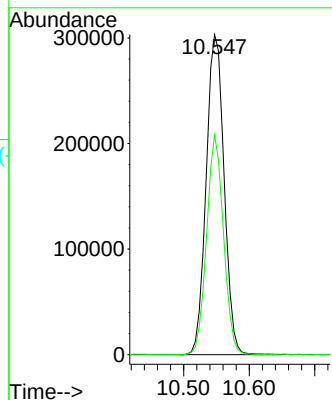
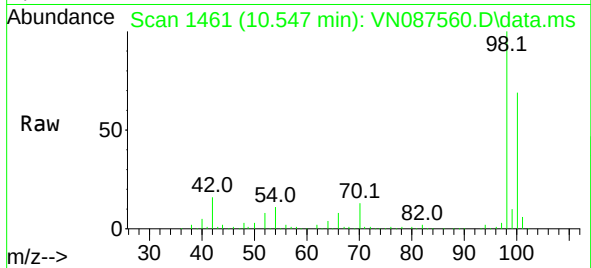




#50
Toluene-d8
Concen: 44.948 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. 0.000 min
Lab File: VN087560.D
Acq: 14 Aug 2025 13:08

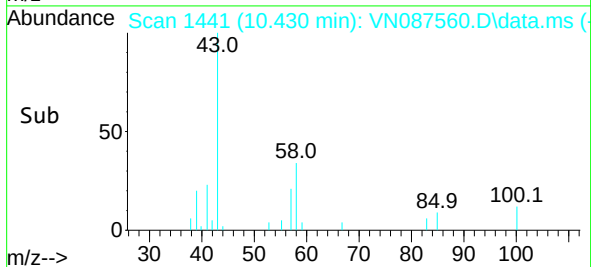
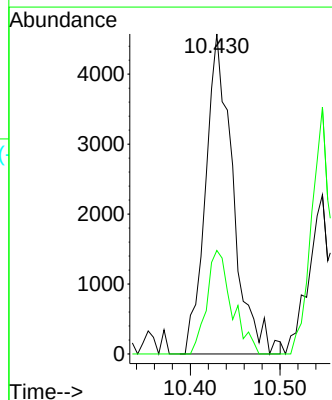
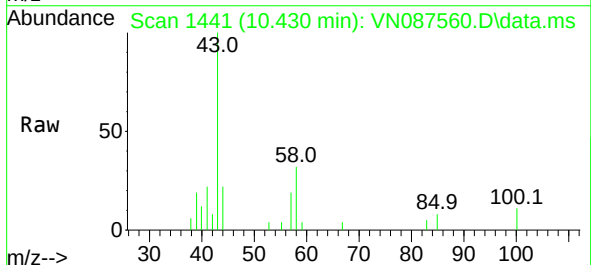
Instrument :
MSVOA_N
ClientSampleId :

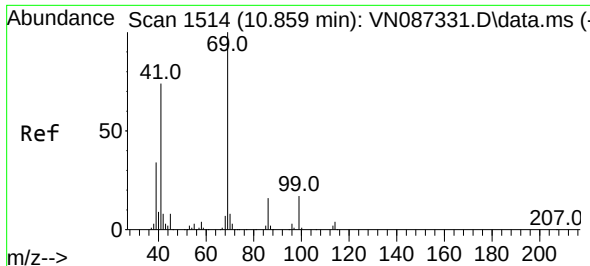
Tgt Ion: 98 Resp: 576483
Ion Ratio Lower Upper
98 100
100 64.7 52.1 78.1



#51
4-Methyl-2-Pentanone
Concen: 1.443 ug/l
RT: 10.430 min Scan# 1441
Delta R.T. 0.001 min
Lab File: VN087560.D
Acq: 14 Aug 2025 13:08

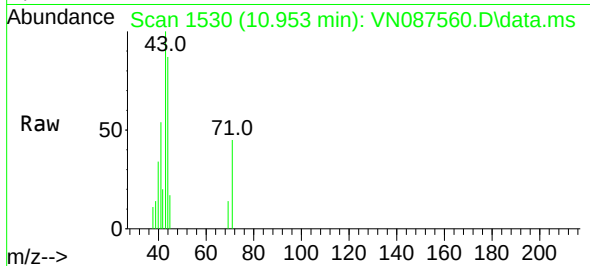
Tgt Ion: 43 Resp: 9718
Ion Ratio Lower Upper
43 100
58 29.6 30.8 46.2#



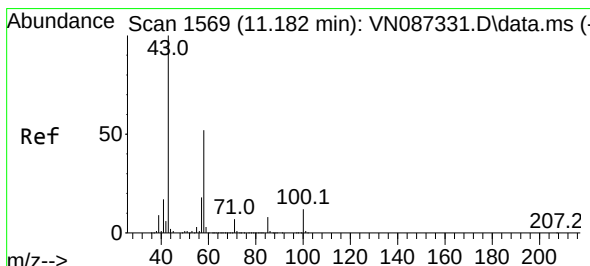
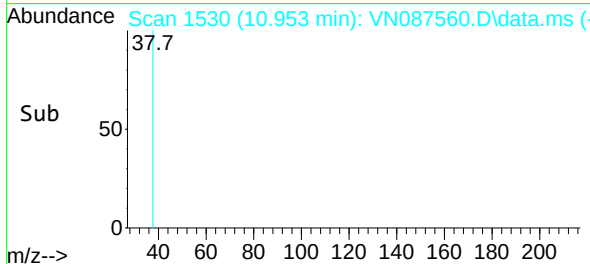
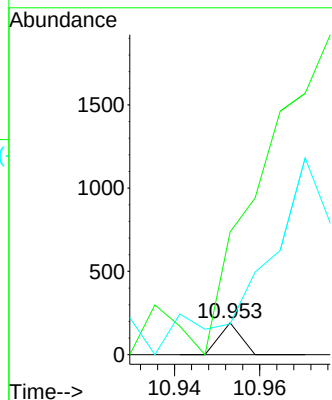


#56
Ethyl methacrylate
Concen: 0.646 ug/l
RT: 10.953 min Scan# 1530
Delta R.T. 0.094 min
Lab File: VN087560.D
Acq: 14 Aug 2025 13:08

Instrument :
MSVOA_N
ClientSampleId :

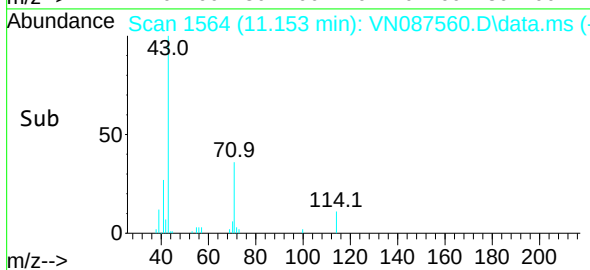
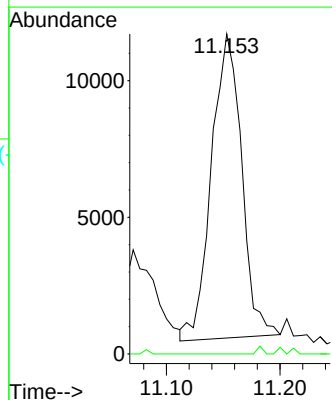
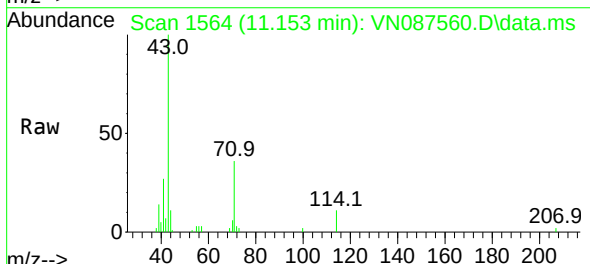


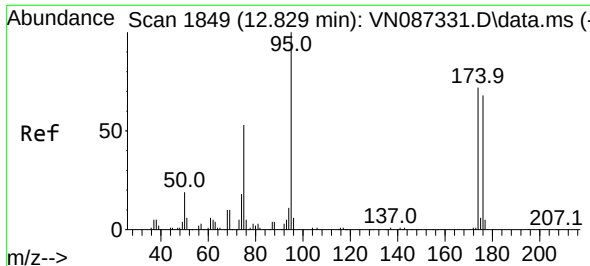
Tgt Ion: 69 Resp: 67
Ion Ratio Lower Upper
69 100
41 0.0 55.1 82.7#
39 0.0 27.9 41.9#



#59
2-Hexanone
Concen: 4.602 ug/l
RT: 11.153 min Scan# 1564
Delta R.T. -0.029 min
Lab File: VN087560.D
Acq: 14 Aug 2025 13:08

Tgt Ion: 43 Resp: 20565
Ion Ratio Lower Upper
43 100
58 0.0 26.7 80.0#

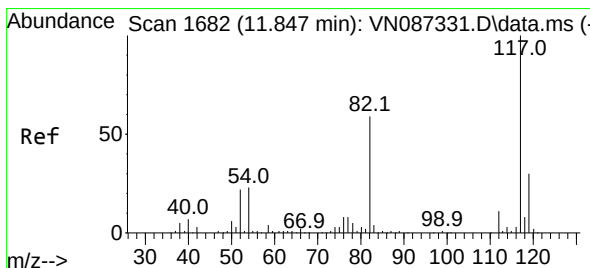
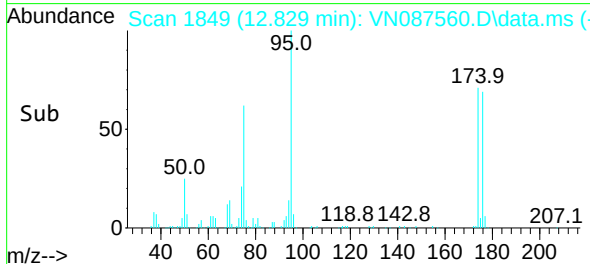
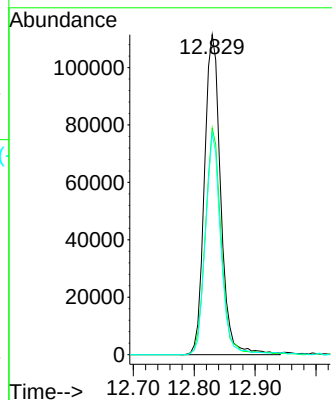
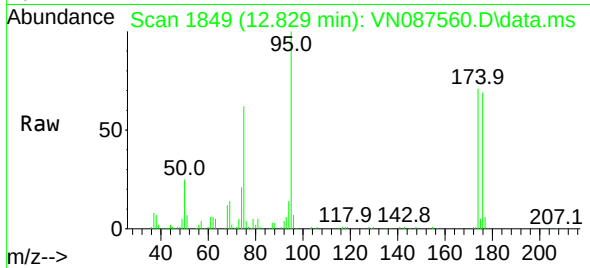




#62
4-Bromofluorobenzene
Concen: 43.629 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.000 min
Lab File: VN087560.D
Acq: 14 Aug 2025 13:08

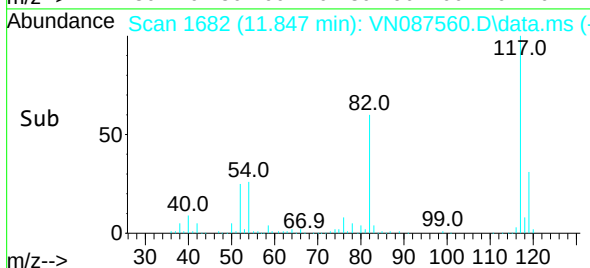
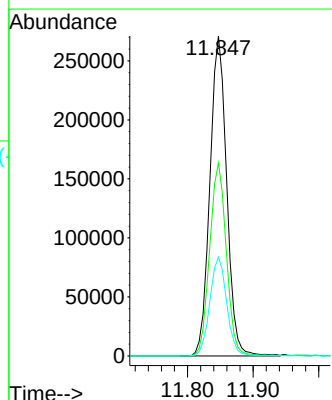
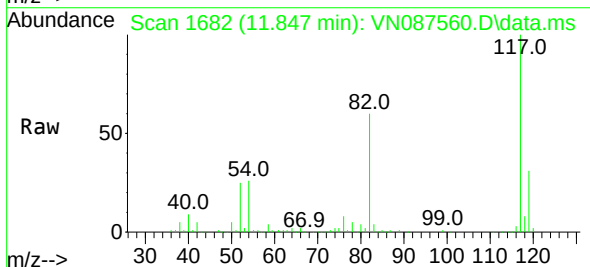
Instrument :
MSVOA_N
ClientSampleId :

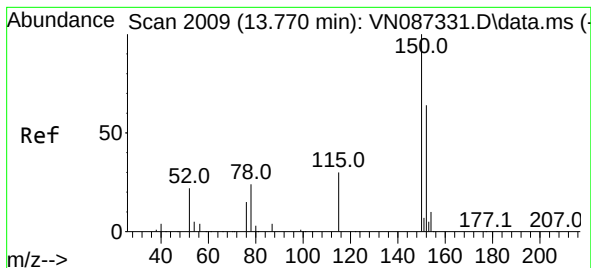
Tgt Ion: 95 Resp: 206736
Ion Ratio Lower Upper
95 100
174 69.3 0.0 149.4
176 65.4 0.0 141.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.847 min Scan# 1682
Delta R.T. 0.000 min
Lab File: VN087560.D
Acq: 14 Aug 2025 13:08

Tgt Ion: 117 Resp: 482653
Ion Ratio Lower Upper
117 100
82 60.3 47.4 71.2
119 30.9 23.8 35.8





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.770 min Scan# 2009

Delta R.T. 0.000 min

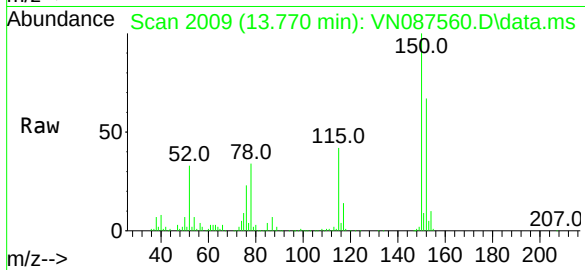
Lab File: VN087560.D

Acq: 14 Aug 2025 13:08

Instrument :

MSVOA_N

ClientSampleId :



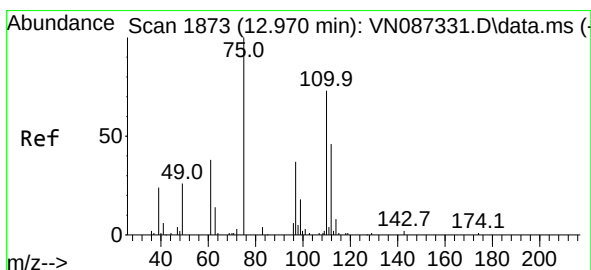
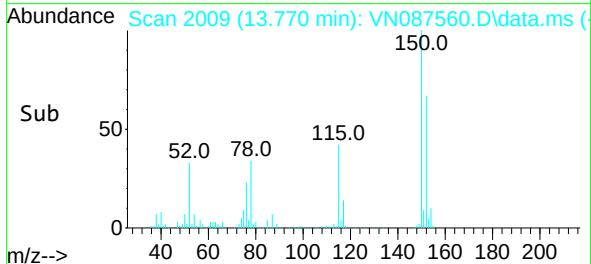
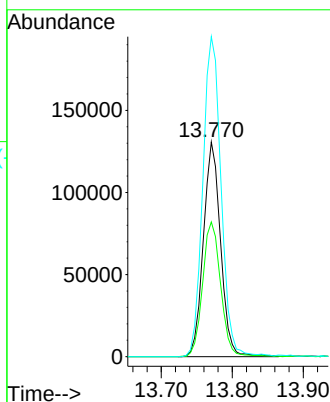
Tgt Ion:152 Resp: 220545

Ion Ratio Lower Upper

152 100

115 65.8 31.1 93.5

150 157.9 0.0 349.0



#76

1,2,3-Trichloropropane

Concen: 25.307 ug/l

RT: 12.829 min Scan# 1849

Delta R.T. -0.141 min

Lab File: VN087560.D

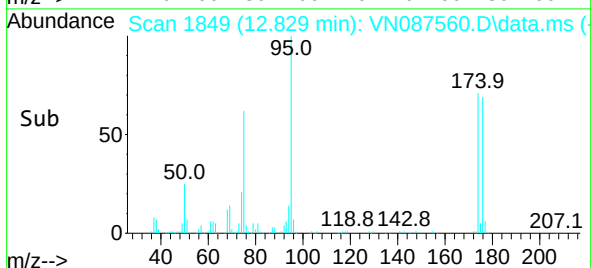
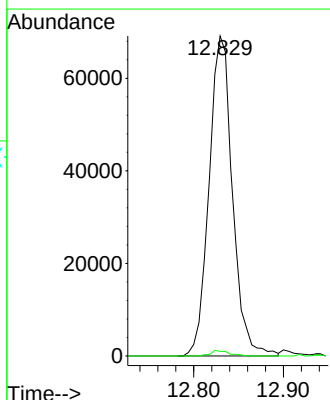
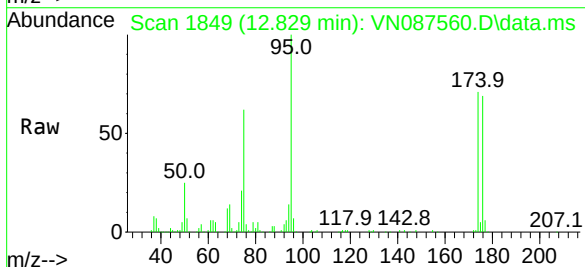
Acq: 14 Aug 2025 13:08

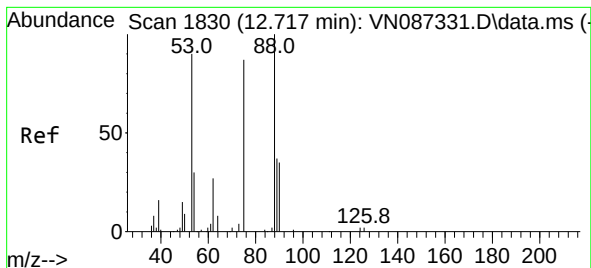
Tgt Ion: 75 Resp: 125159

Ion Ratio Lower Upper

75 100

77 1.3 94.5 283.6#

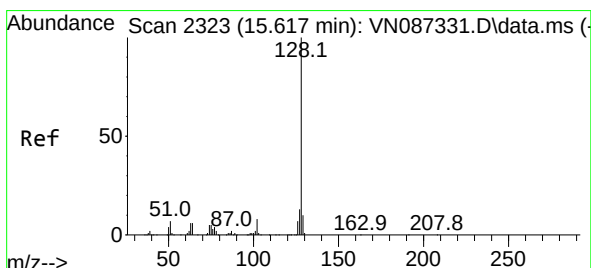
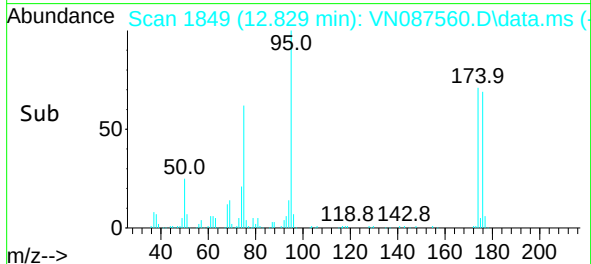
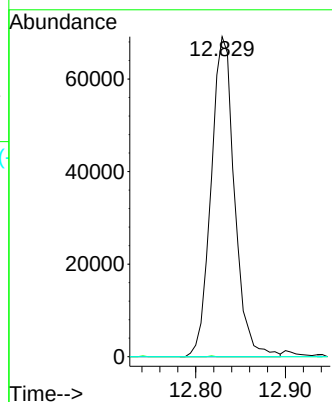
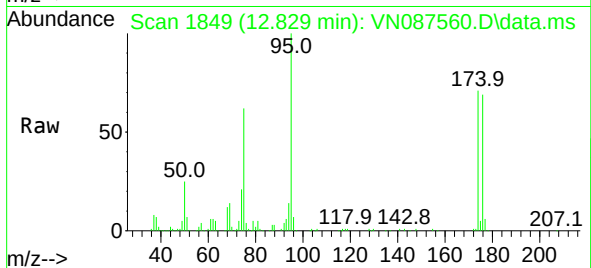




#81
trans-1,4-Dichloro-2-butene
Concen: 69.245 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.112 min
Lab File: VN087560.D
Acq: 14 Aug 2025 13:08

Instrument :
MSVOA_N
ClientSampleId :

Tgt Ion: 75 Resp: 125159
Ion Ratio Lower Upper
75 100
53 0.0 83.5 125.3#
89 0.0 38.4 57.6#



#95
Naphthalene
Concen: 4.004 ug/l
RT: 15.617 min Scan# 2323
Delta R.T. 0.000 min
Lab File: VN087560.D
Acq: 14 Aug 2025 13:08

Tgt Ion:128 Resp: 55775
Ion Ratio Lower Upper
128 100
127 12.1 10.5 15.7
129 12.0 8.4 12.6

