

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080525\
 Data File : VN087457.D
 Acq On : 05 Aug 2025 15:22
 Operator : JC\MD
 Sample : IBLK
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 IBLK

Quant Time: Aug 06 02:11:49 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080525W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 06 02:01:21 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.800	128	68575	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.082	114	386333	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.847	117	333546	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.565	65	190112	30.057	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	= 100.200%	
60) 4-Bromofluorobenzene	12.829	95	170950	29.782	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	= 99.267%	
63) Toluene-d8	10.547	98	477536	31.115	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	= 103.733%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.148	85	2089	0.467	ug/l	89
3) Chloromethane	2.389	50	1883	0.410	ug/l	95
4) Vinyl Chloride	2.542	62	1704	0.350	ug/l	98
5) Bromomethane	2.989	94	2732	1.036	ug/l	80
9) 1,1,2-Trichlorotrifluo...	4.359	101	1196	0.334	ug/l #	61
11) Methyl Iodide	4.595	142	1167	0.395	ug/l #	71
12) Methyl Acetate	5.018	43	2940	0.424	ug/l #	56
13) Acrolein	4.200	56	651	0.615	ug/l	85
14) Acrylonitrile	5.706	53	5385	1.779	ug/l	78
16) Carbon Disulfide	4.706	76	17997	1.545	ug/l	99
18) Methylene Chloride	5.265	84	2826	0.584	ug/l #	65
19) trans-1,2-Dichloroethene	5.777	96	2361	0.529	ug/l #	54
22) cis-1,2-Dichloroethene	7.477	96	1897	0.345	ug/l #	39
23) tert-Butyl Alcohol	5.530	59	753	0.586	ug/l #	100
26) Cyclohexane	8.235	56	2378	0.329	ug/l #	77
29) 1,1-Dichloropropene	8.359	75	2985	0.474	ug/l	71
33) Carbon Tetrachloride	8.341	117	1436	0.215	ug/l #	76
37) Trichloroethene	9.335	130	1968	0.449	ug/l #	52
38) Methylcyclohexane	9.582	83	4952	0.677	ug/l	82
40) Dibromomethane	9.677	93	778	0.203	ug/l	71
41) Bromodichloromethane	9.871	83	2228	0.280	ug/l #	70
42) Vinyl Acetate	6.583	43	7834	0.512	ug/l #	87
43) Ethyl Acetate	7.559	43	2092	0.233	ug/l #	93
45) 1,4-Dioxane	9.682	88	3759	38.767	ug/l #	76
46) Methyl methacrylate	9.665	41	2294	0.320	ug/l	84
48) t-1,3-Dichloropropene	10.824	75	3456	0.400	ug/l #	87
49) cis-1,3-Dichloropropene	10.288	75	2442	0.281	ug/l #	88
52) 1,3-Dichloropropane	11.141	76	1844	0.212	ug/l	85
54) 1,2-Dibromoethane	11.453	107	1247	0.243	ug/l #	77
55) 2-Chloroethyl vinyl ether	10.141	63	5899	1.316	ug/l	98
58) 4-Methyl-2-Pentanone	10.424	43	9404	1.096	ug/l #	72
61) Tetrachloroethene	11.082	164	2291	0.705	ug/l	86
62) Toluene	10.618	91	5980	0.290	ug/l	94
64) Chlorobenzene	11.871	112	4883	0.386	ug/l #	87
66) Ethyl Benzene	11.941	91	7276	0.317	ug/l	99
67) m/p-Xylenes	12.047	106	6281	0.746	ug/l	95
68) o-Xylene	12.376	106	2467	0.298	ug/l	73
70) Isopropylbenzene	12.682	105	10667	0.507	ug/l	95
71) 1,1,2,2-Tetrachloroethane	12.923	83	1832	0.254	ug/l #	95

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

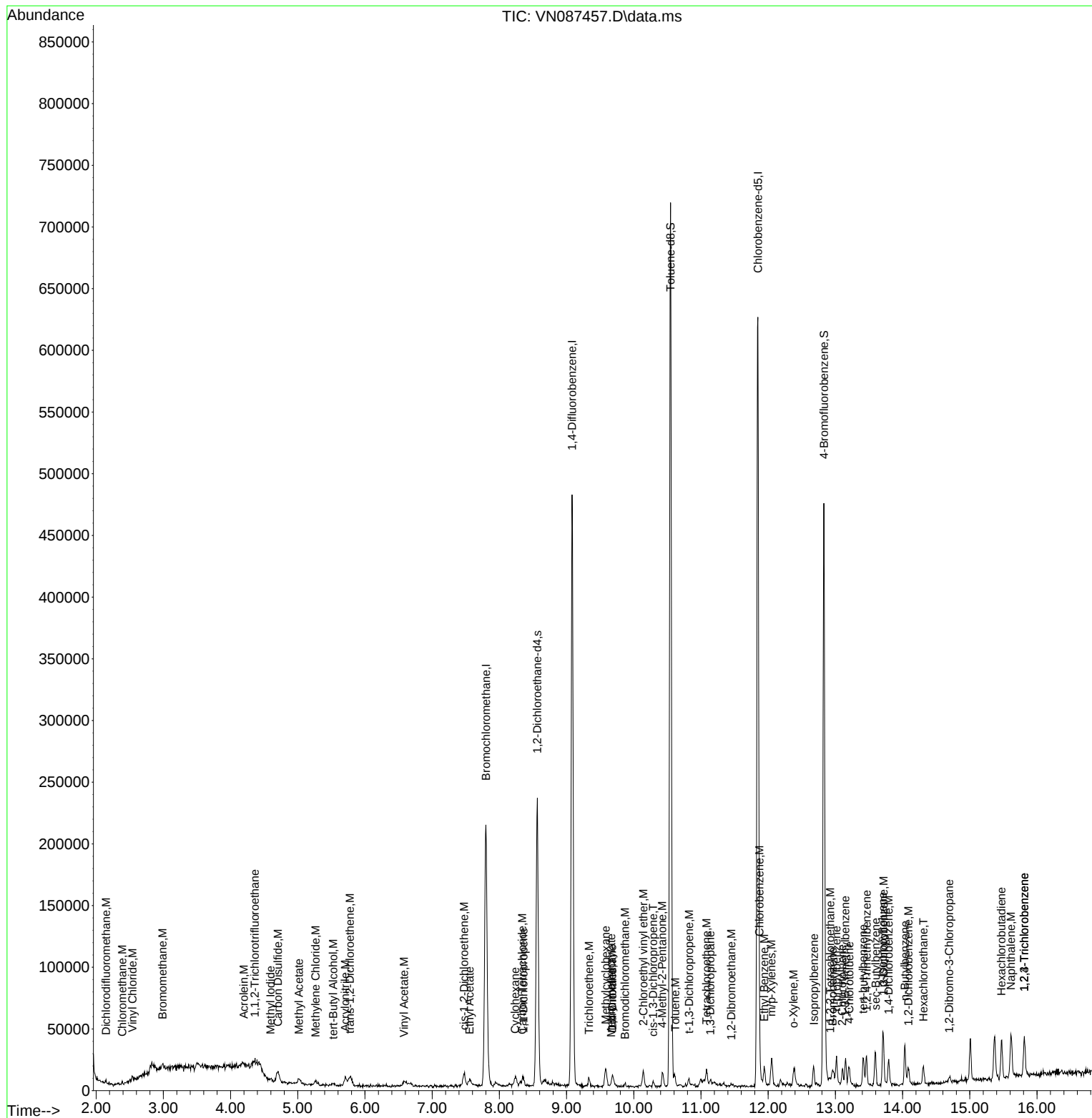
73) Bromobenzene	12.959	156	1940	0.398	ug/l	64
74) n-propylbenzene	13.018	91	18209	0.693	ug/l	97
75) 2-Chlorotoluene	13.100	91	8504	0.526	ug/l	96
76) 1,3,5-Trimethylbenzene	13.147	105	12261	0.680	ug/l	94
78) 4-Chlorotoluene	13.206	91	11164	0.681	ug/l	100
79) tert-butylbenzene	13.412	119	10601	0.698	ug/l	90
80) 1,2,4-Trimethylbenzene	13.465	105	11522	0.640	ug/l	94
81) sec-Butylbenzene	13.600	105	18441	0.834	ug/l	91
82) p-Isopropyltoluene	13.706	119	16273	0.886	ug/l	98
83) 1,3-Dichlorobenzene	13.717	146	7718	0.831	ug/l	94
84) 1,4-Dichlorobenzene	13.794	146	8274	0.878	ug/l	95
85) n-Butylbenzene	14.035	91	19109	1.063	ug/l	96
86) Hexachloroethane	14.312	117	2917	0.813	ug/l	62
87) 1,2-Dichlorobenzene	14.088	146	5929	0.668	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.694	75	726	0.397	ug/l #	68
89) 1,2,4-Trichlorobenzene	15.811	180	10233	1.930	ug/l	94
90) Hexachlorobutadiene	15.470	225	4742	2.300	ug/l	87
91) Naphthalene	15.611	128	33729	1.669	ug/l	98
92) 1,2,3-Trichlorobenzene	15.811	180	10233	1.930	ug/l	94

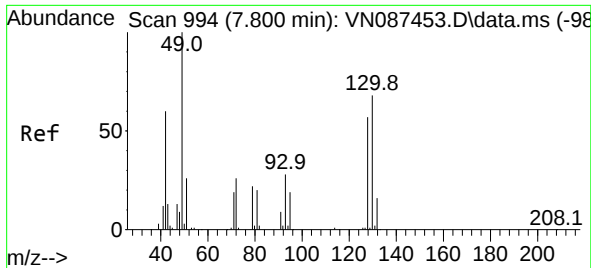
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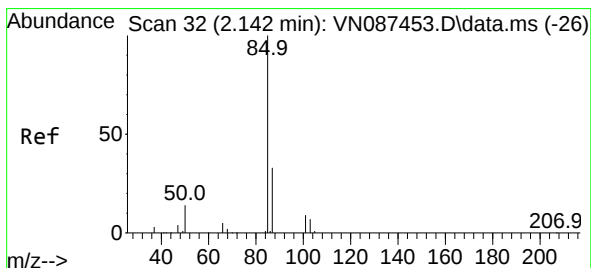
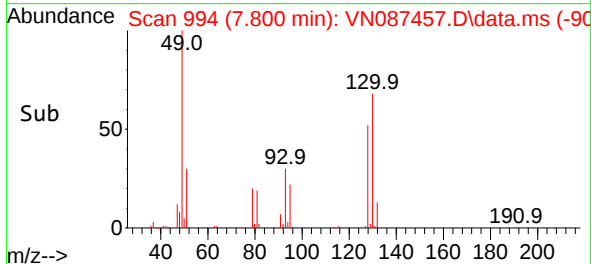
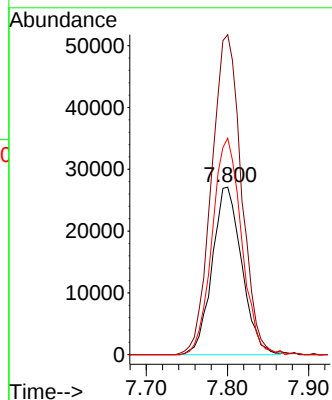
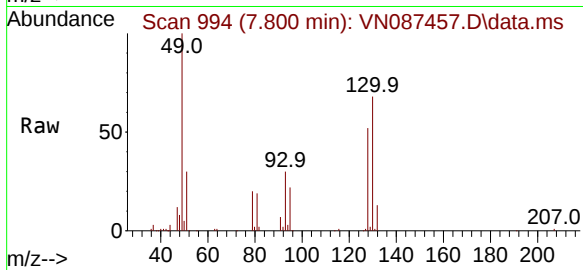




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.800 min Scan# 994
Delta R.T. 0.000 min
Lab File: VN087457.D
Acq: 05 Aug 2025 15:22

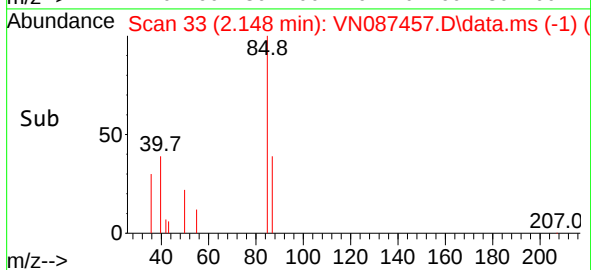
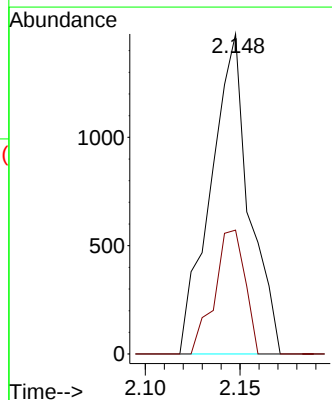
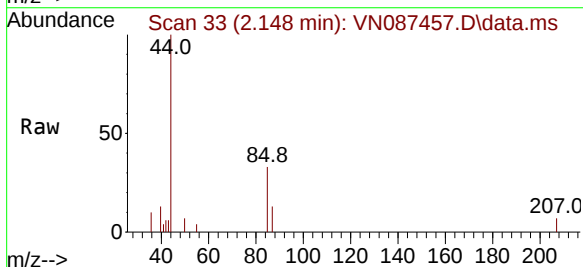
Instrument :
MSVOA_N
ClientSampleId :
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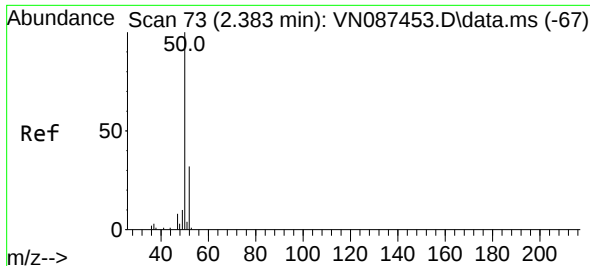
Tgt Ion:128 Resp: 68575
Ion Ratio Lower Upper
128 100
49 193.0 0.0 494.8
130 128.3 0.0 321.5



#2
Dichlorodifluoromethane
Concen: 0.467 ug/l
RT: 2.148 min Scan# 33
Delta R.T. 0.006 min
Lab File: VN087457.D
Acq: 05 Aug 2025 15:22

Tgt Ion: 85 Resp: 2089
Ion Ratio Lower Upper
85 100
87 38.7 16.4 49.2

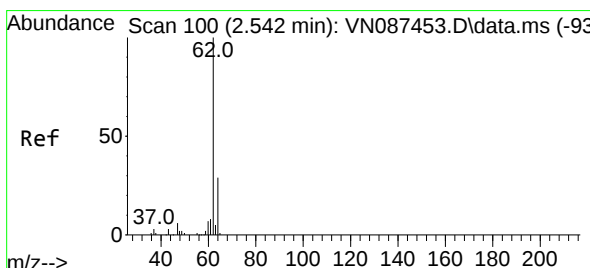
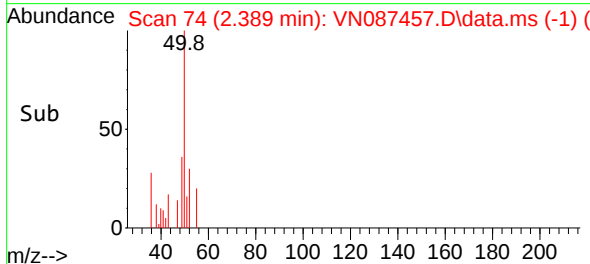
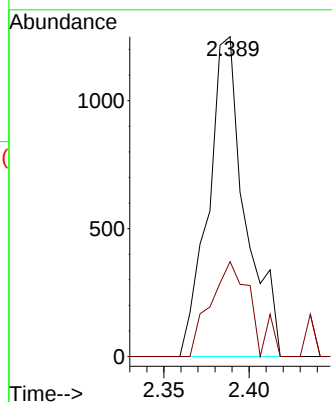
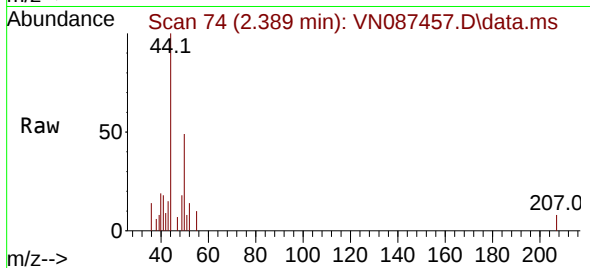




#3
Chloromethane
Concen: 0.410 ug/l
RT: 2.389 min Scan# 74
Delta R.T. 0.006 min
Lab File: VN087457.D
Acq: 05 Aug 2025 15:22

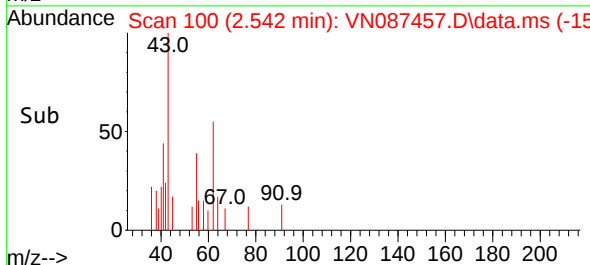
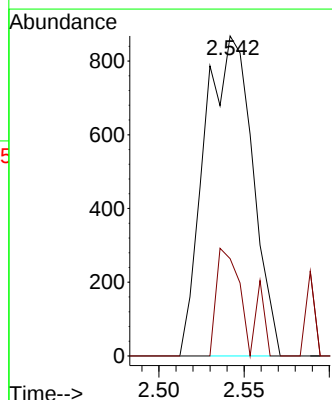
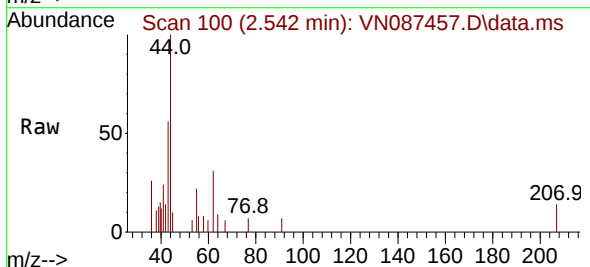
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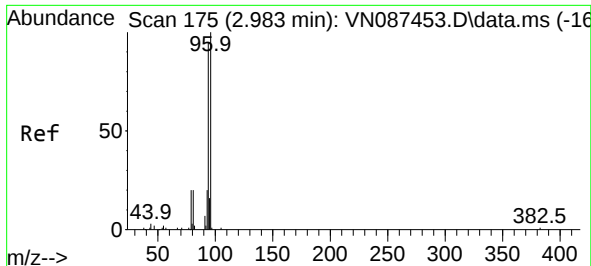
Tgt Ion: 50 Resp: 1883
Ion Ratio Lower Upper
50 100
52 29.7 25.8 38.6



#4
Vinyl Chloride
Concen: 0.350 ug/l
RT: 2.542 min Scan# 100
Delta R.T. 0.000 min
Lab File: VN087457.D
Acq: 05 Aug 2025 15:22

Tgt Ion: 62 Resp: 1704
Ion Ratio Lower Upper
62 100
64 30.4 23.4 35.2

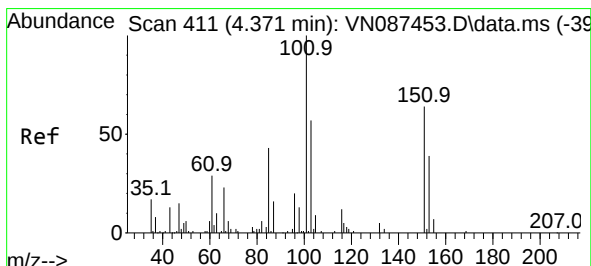
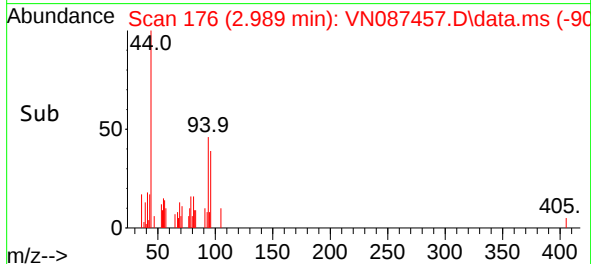
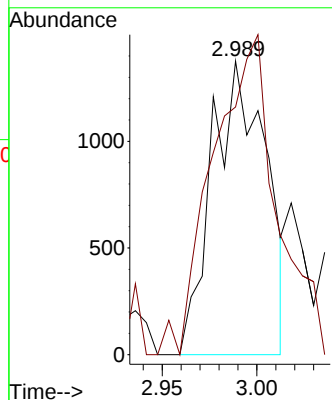
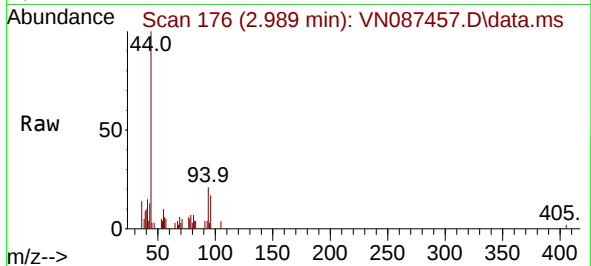




#5
Bromomethane
Concen: 1.036 ug/l
RT: 2.989 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN087457.D
Acq: 05 Aug 2025 15:22

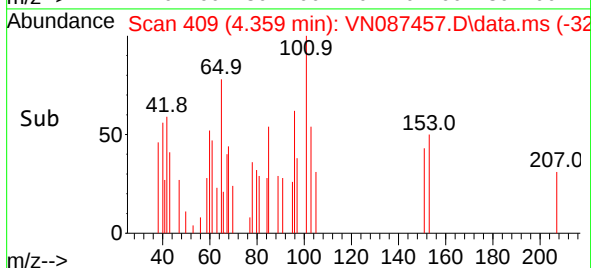
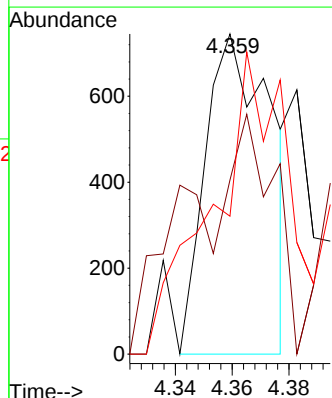
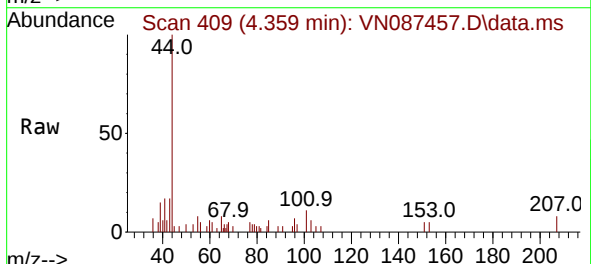
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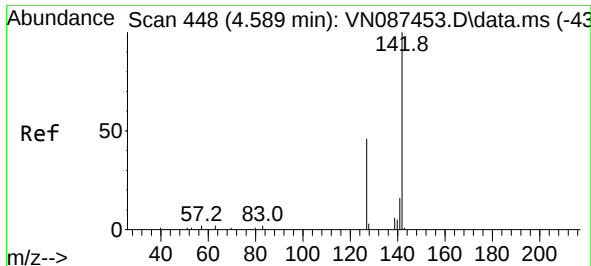
Tgt Ion: 94 Resp: 2732
Ion Ratio Lower Upper
94 100
96 84.4 84.2 126.4



#9
1,1,2-Trichlorotrifluoroethane
Concen: 0.334 ug/l
RT: 4.359 min Scan# 409
Delta R.T. -0.012 min
Lab File: VN087457.D
Acq: 05 Aug 2025 15:22

Tgt Ion:101 Resp: 1196
Ion Ratio Lower Upper
101 100
85 0.0 0.0 57.0
151 40.5 0.0 134.2

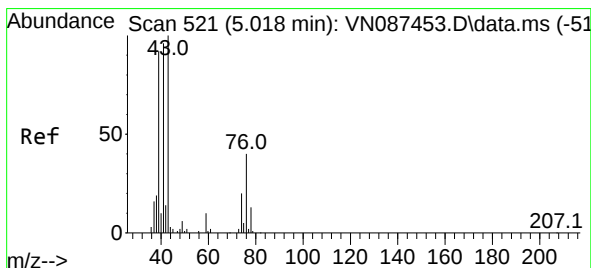
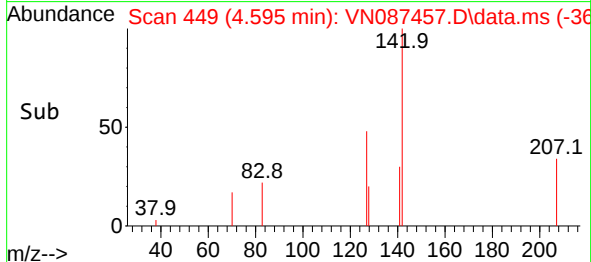
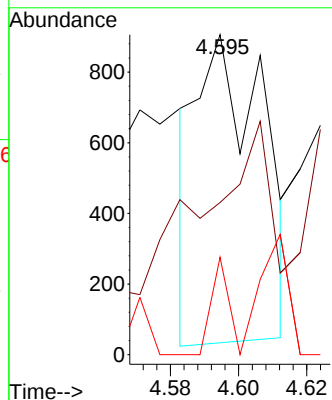
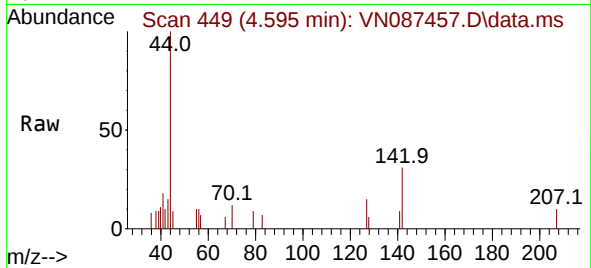




#11
Methyl Iodide
Concen: 0.395 ug/l
RT: 4.595 min Scan# 448
Delta R.T. 0.006 min
Lab File: VN087457.D
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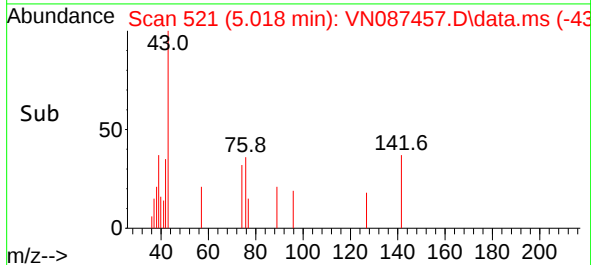
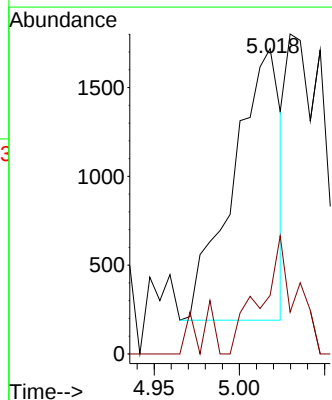
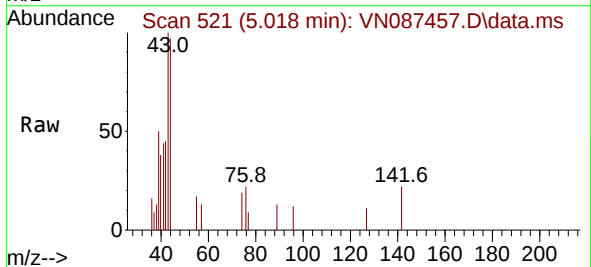
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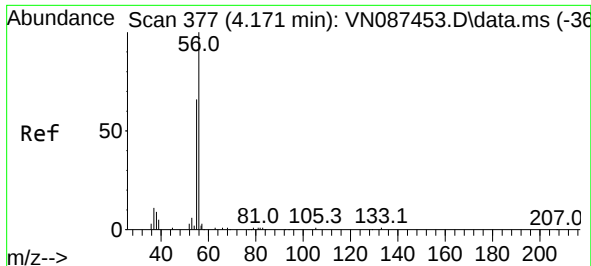
Tgt Ion:142 Resp: 1167
Ion Ratio Lower Upper
142 100
127 28.4 22.9 68.7
141 31.2 7.7 23.1#



#12
Methyl Acetate
Concen: 0.424 ug/l
RT: 5.018 min Scan# 521
Delta R.T. 0.000 min
Lab File: VN087457.D
Acq: 05 Aug 2025 15:22

Tgt Ion: 43 Resp: 2940
Ion Ratio Lower Upper
43 100
74 0.0 16.0 24.0#

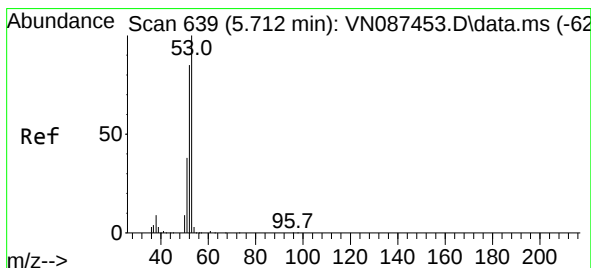
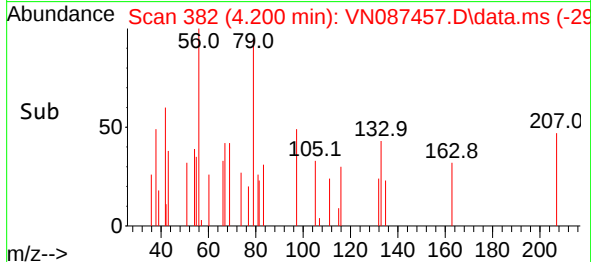
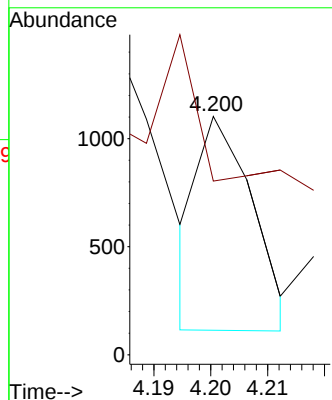
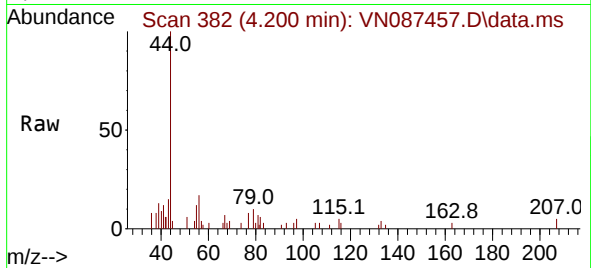




#13
Acrolein
Concen: 0.615 ug/l
RT: 4.200 min Scan# 382
Delta R.T. 0.029 min
Lab File: VN087457.D
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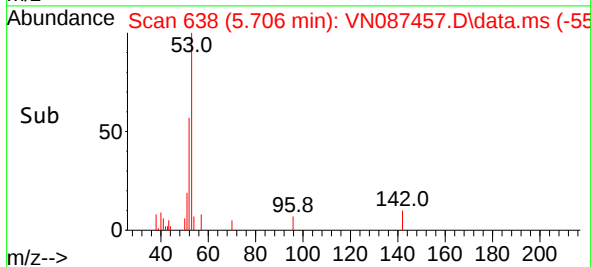
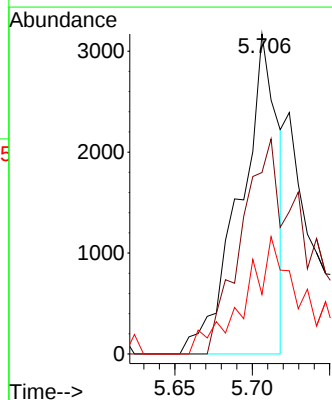
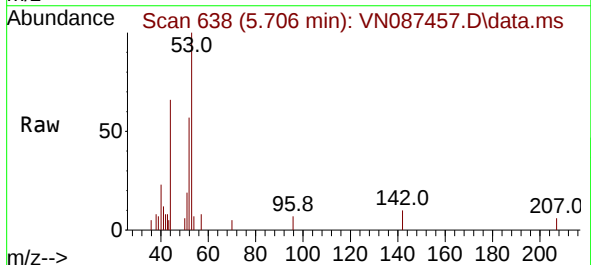
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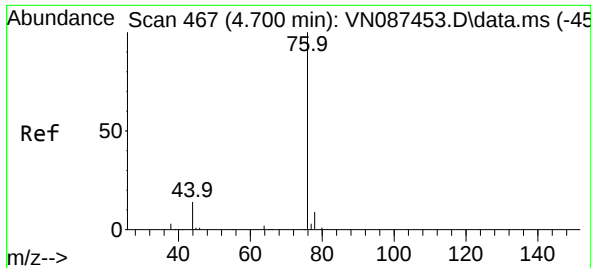
Tgt Ion: 56 Resp: 651
Ion Ratio Lower Upper
56 100
55 84.5 57.4 86.0



#14
Acrylonitrile
Concen: 1.779 ug/l
RT: 5.706 min Scan# 638
Delta R.T. -0.006 min
Lab File: VN087457.D
Acq: 05 Aug 2025 15:22

Tgt Ion: 53 Resp: 5385
Ion Ratio Lower Upper
53 100
52 66.5 42.4 127.2
51 53.6 18.5 55.5

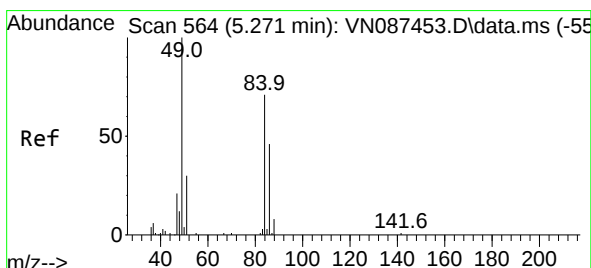
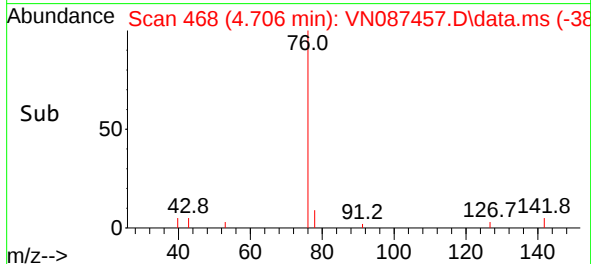
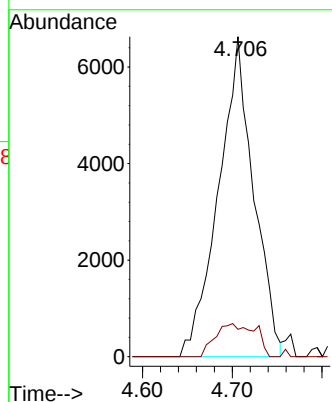
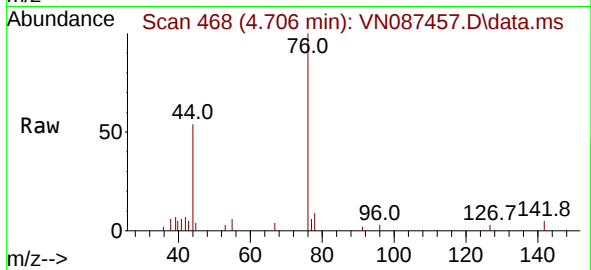




#16
Carbon Disulfide
Concen: 1.545 ug/l
RT: 4.706 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN087457.D
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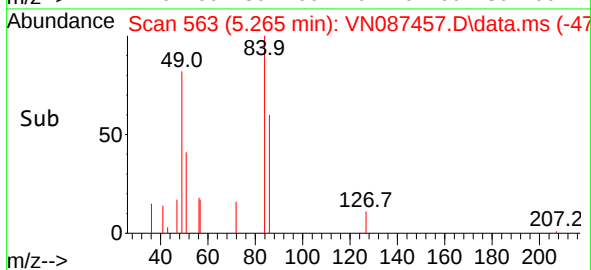
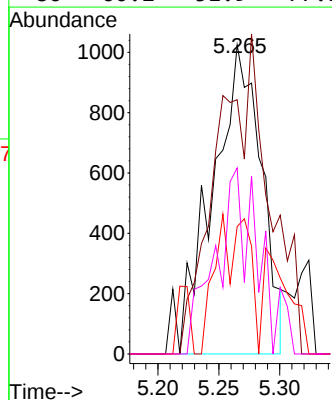
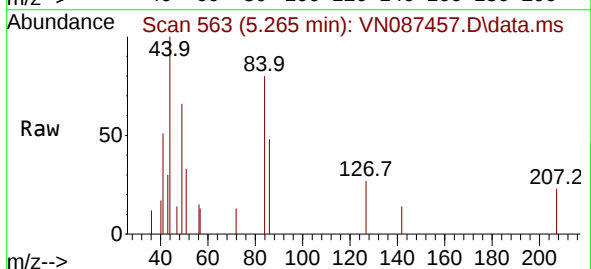
Instrument :
MSVOA_N
ClientSampleId :
IBLK

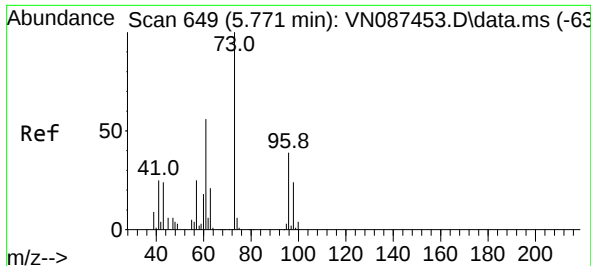
Tgt Ion: 76 Resp: 17997
Ion Ratio Lower Upper
76 100
78 8.6 7.1 10.7



#18
Methylene Chloride
Concen: 0.584 ug/l
RT: 5.265 min Scan# 563
Delta R.T. -0.006 min
Lab File: VN087457.D
Acq: 05 Aug 2025 15:22

Tgt Ion: 84 Resp: 2826
Ion Ratio Lower Upper
84 100
49 82.2 112.9 169.3#
51 19.2 33.8 50.8#
86 60.2 51.9 77.9

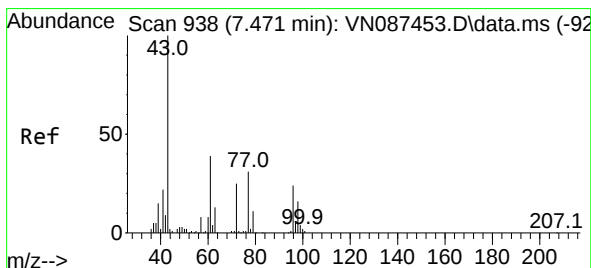
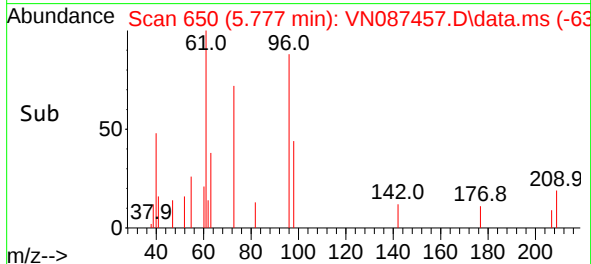
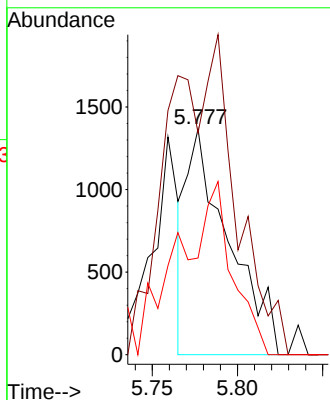
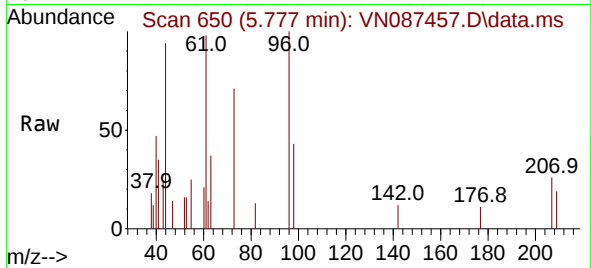




#19
trans-1,2-Dichloroethene
Concen: 0.529 ug/l
RT: 5.777 min Scan# 61
Delta R.T. 0.006 min
Lab File: VN087457.D
Acq: 05 Aug 2025 15:22

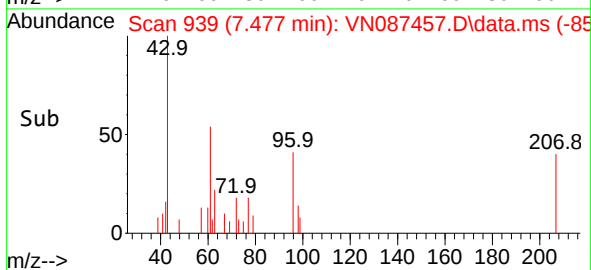
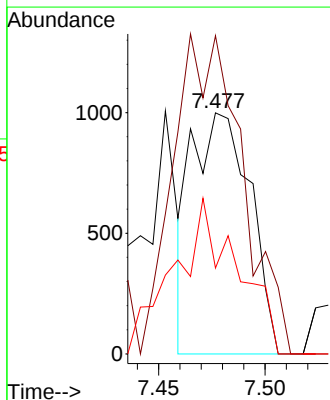
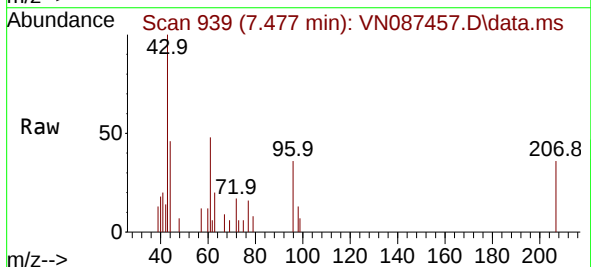
Instrument :
MSVOA_N
ClientSampleId :
IBLK

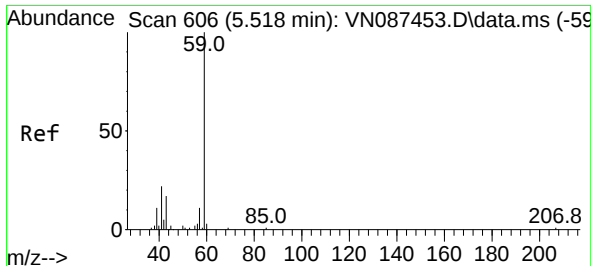
Tgt Ion: 96 Resp: 2361
Ion Ratio Lower Upper
96 100
61 74.3 114.2 171.4#
98 42.8 48.7 73.1#



#22
cis-1,2-Dichloroethene
Concen: 0.345 ug/l
RT: 7.477 min Scan# 939
Delta R.T. 0.006 min
Lab File: VN087457.D
Acq: 05 Aug 2025 15:22

Tgt Ion: 96 Resp: 1897
Ion Ratio Lower Upper
96 100
61 77.3 126.6 190.0#
98 18.4 50.9 76.3#

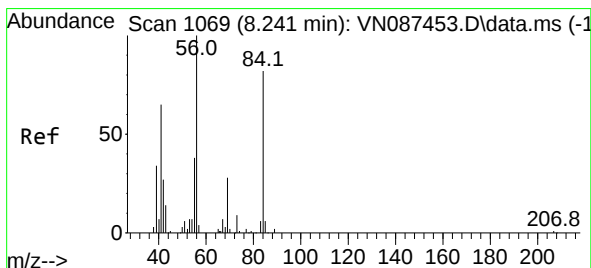
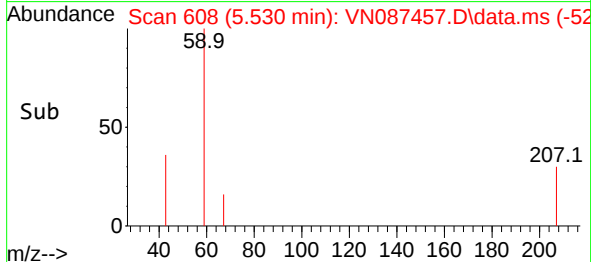
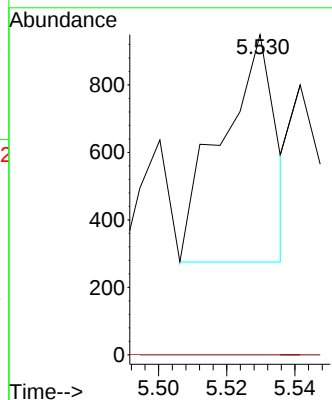
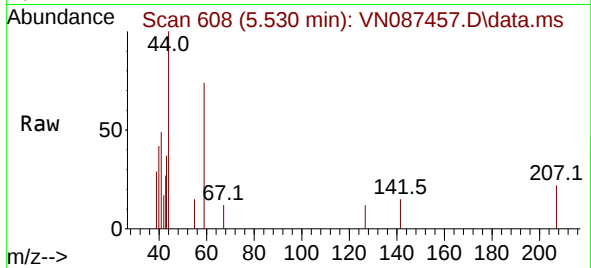




#23
tert-Butyl Alcohol
Concen: 0.586 ug/l
RT: 5.530 min Scan# 606
Delta R.T. 0.012 min
Lab File: VN087457.D
Acq: 05 Aug 2025 15:22

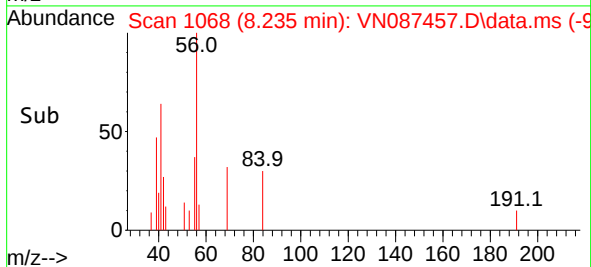
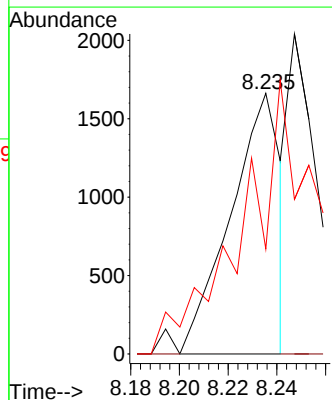
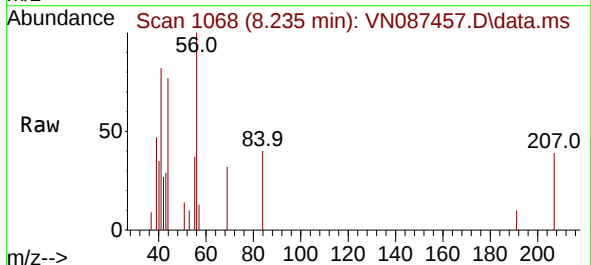
Instrument :
MSVOA_N
ClientSampleId :
IBLK

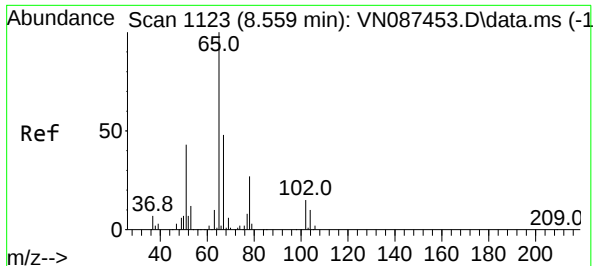
Tgt Ion: 59 Resp: 753
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0



#26
Cyclohexane
Concen: 0.329 ug/l
RT: 8.235 min Scan# 1068
Delta R.T. -0.006 min
Lab File: VN087457.D
Acq: 05 Aug 2025 15:22

Tgt Ion: 56 Resp: 2378
Ion Ratio Lower Upper
56 100
89 0.0 2.3 3.5#
84 104.6 67.0 100.4#

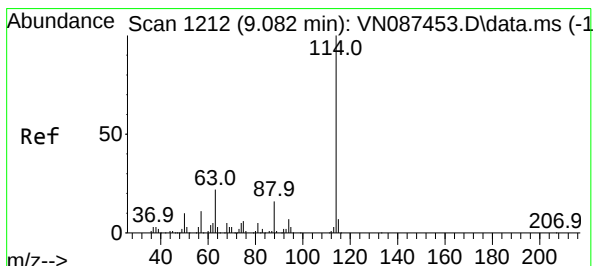
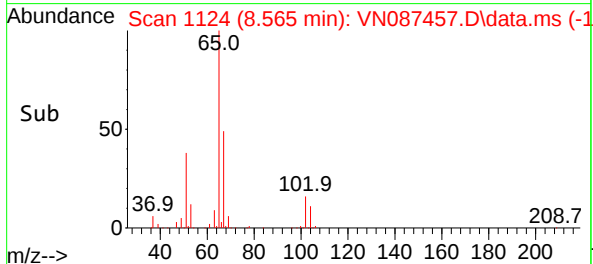
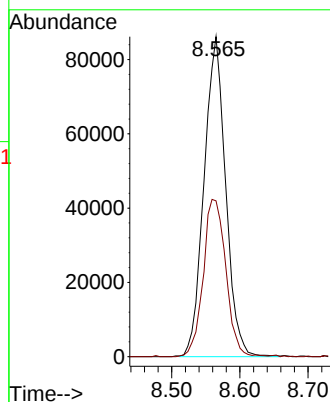
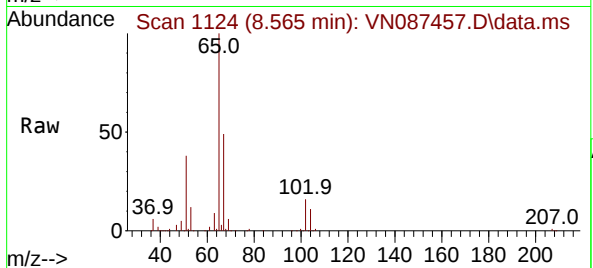




#27
1,2-Dichloroethane-d4
Concen: 30.057 ug/l
RT: 8.565 min Scan# 1123
Delta R.T. 0.006 min
Lab File: VN087457.D
Acq: 05 Aug 2025 15:22

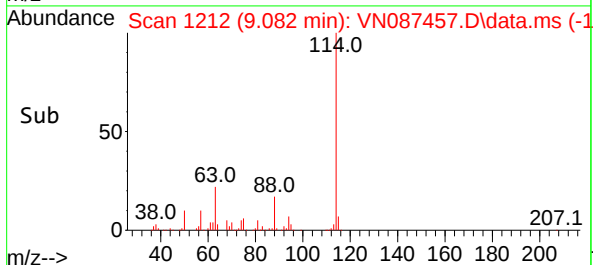
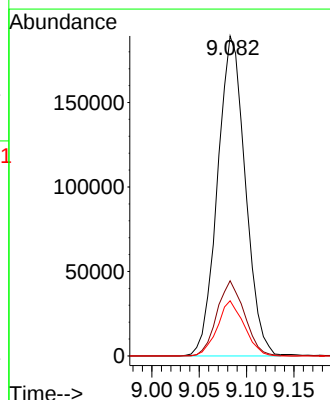
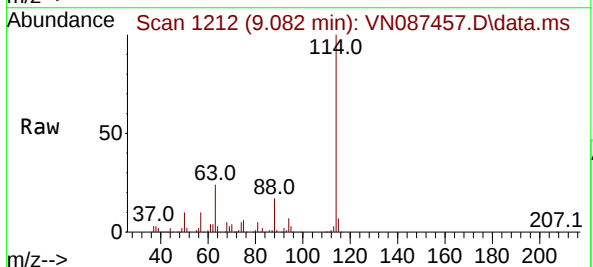
Instrument :
MSVOA_N
ClientSampleId :
IBLK

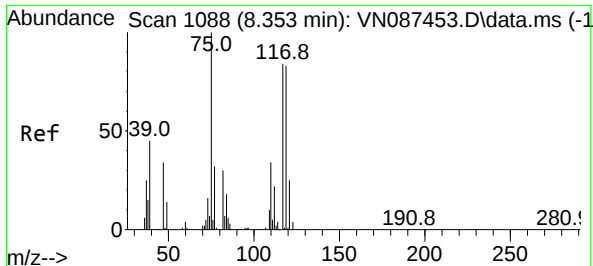
Tgt Ion: 65 Resp: 190112
Ion Ratio Lower Upper
65 100
67 51.2 40.8 61.2



#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.082 min Scan# 1212
Delta R.T. 0.000 min
Lab File: VN087457.D
Acq: 05 Aug 2025 15:22

Tgt Ion: 114 Resp: 386333
Ion Ratio Lower Upper
114 100
63 23.3 18.9 28.3
88 16.6 13.1 19.7

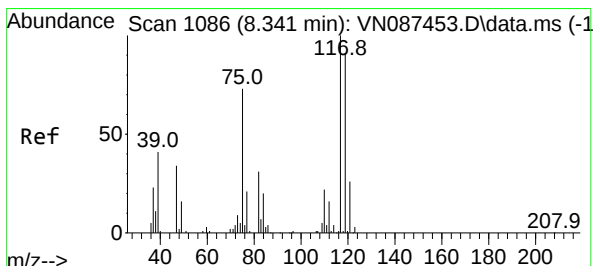
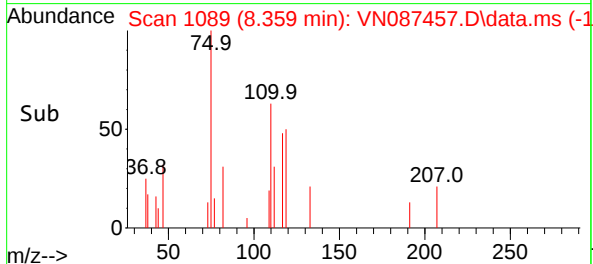
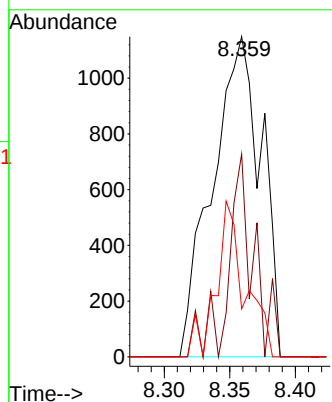
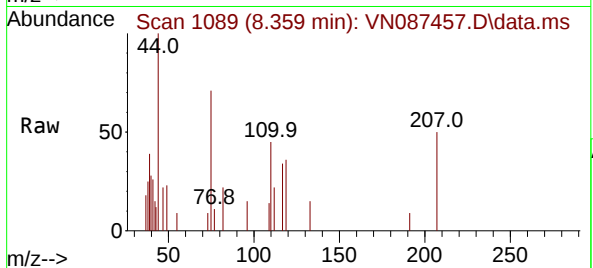




#29
1,1-Dichloropropene
Concen: 0.474 ug/l
RT: 8.359 min Scan# 1089
Delta R.T. 0.006 min
Lab File: VN087457.D
Acq: 05 Aug 2025 15:22

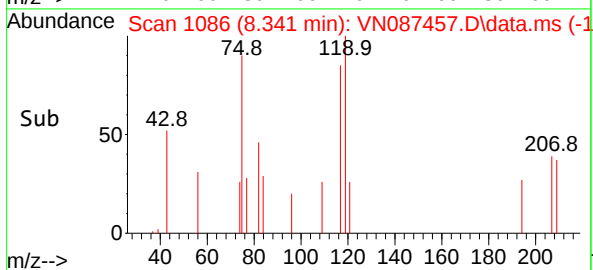
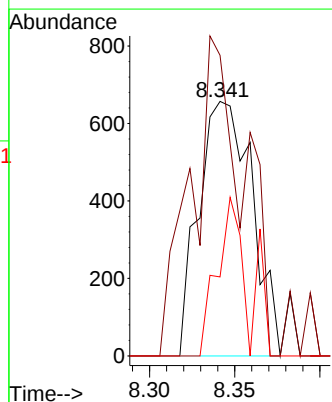
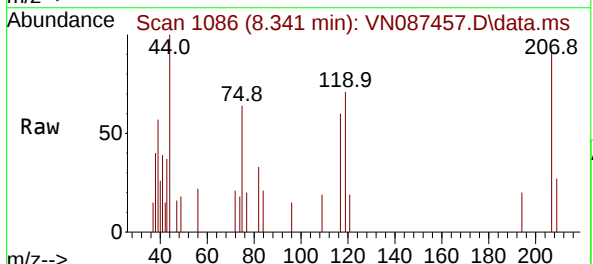
Instrument :
MSVOA_N
ClientSampleId :
IBLK

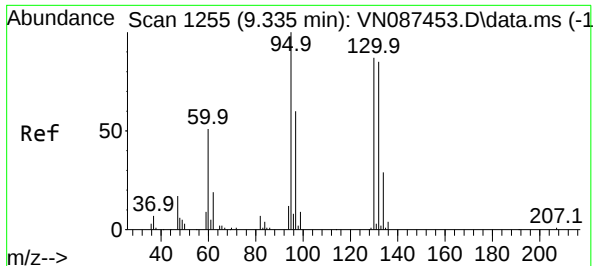
Tgt Ion: 75 Resp: 2985
Ion Ratio Lower Upper
75 100
110 25.1 0.0 65.8
77 7.1 0.0 63.6



#33
Carbon Tetrachloride
Concen: 0.215 ug/l
RT: 8.341 min Scan# 1086
Delta R.T. 0.000 min
Lab File: VN087457.D
Acq: 05 Aug 2025 15:22

Tgt Ion: 117 Resp: 1436
Ion Ratio Lower Upper
117 100
119 118.1 73.4 110.0#
121 31.1 21.1 31.7

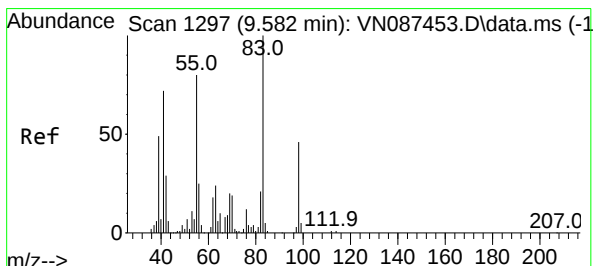
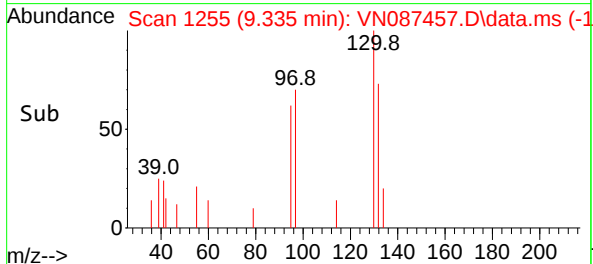
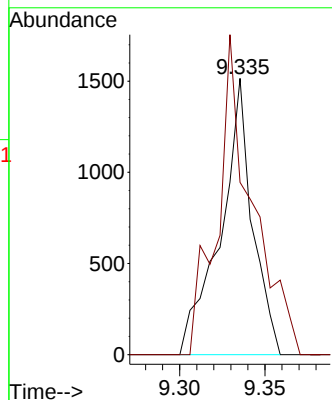
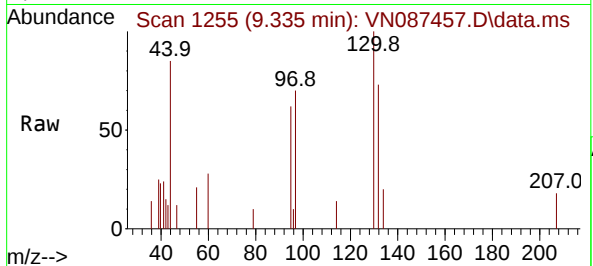




#37
Trichloroethene
Concen: 0.449 ug/l
RT: 9.335 min Scan# 1255
Delta R.T. 0.000 min
Lab File: VN087457.D
Acq: 05 Aug 2025 15:22

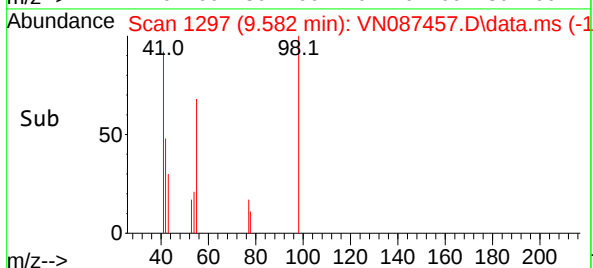
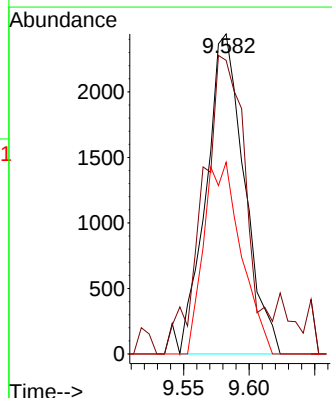
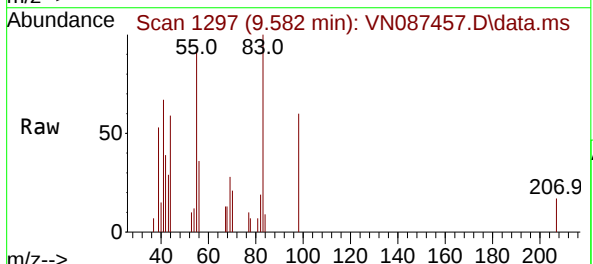
Instrument :
MSVOA_N
ClientSampleId :
IBLK

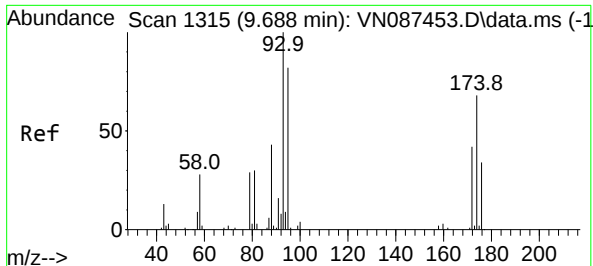
Tgt Ion:130 Resp: 1968
Ion Ratio Lower Upper
130 100
95 62.4 91.4 137.2#



#38
Methylcyclohexane
Concen: 0.677 ug/l
RT: 9.582 min Scan# 1297
Delta R.T. 0.000 min
Lab File: VN087457.D
Acq: 05 Aug 2025 15:22

Tgt Ion: 83 Resp: 4952
Ion Ratio Lower Upper
83 100
55 98.9 41.2 123.6
98 58.7 23.3 69.9

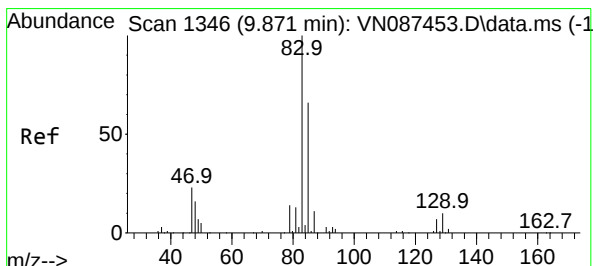
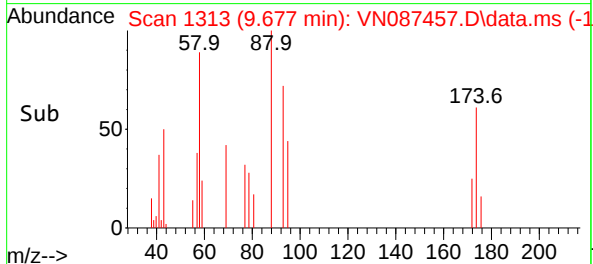
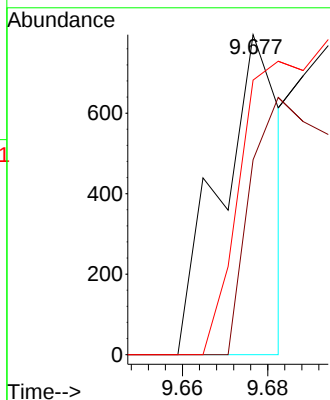
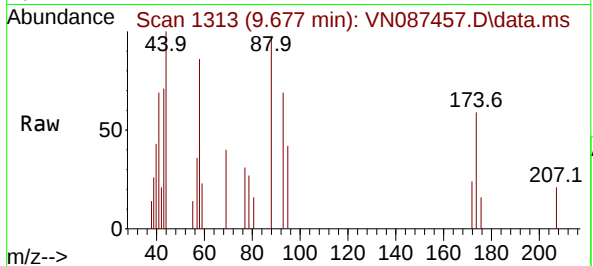




#40
Dibromomethane
Concen: 0.203 ug/l
RT: 9.677 min Scan# 1313
Delta R.T. -0.012 min
Lab File: VN087457.D
Acq: 05 Aug 2025 15:22

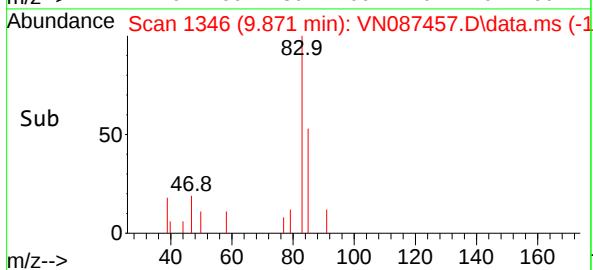
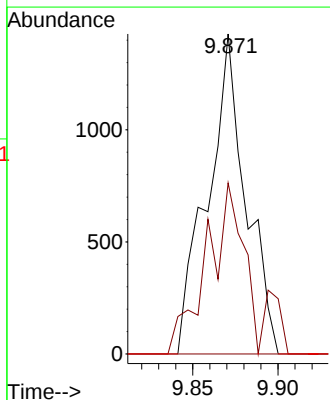
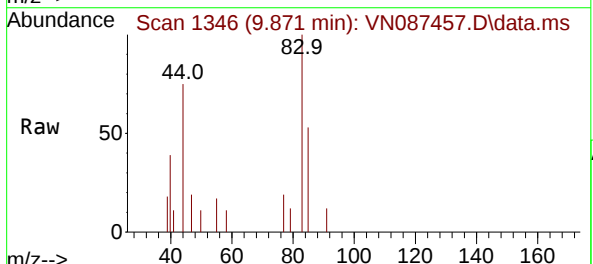
Instrument :
MSVOA_N
ClientSampleId :
IBLK

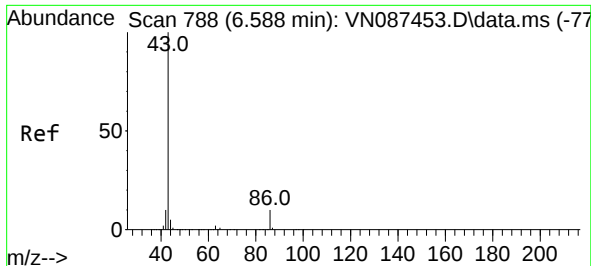
Tgt Ion: 93	Resp: 778		
Ion	Ratio	Lower	Upper
93	100		
95	101.9	0.0	161.6
174	105.9	0.0	151.4



#41
Bromodichloromethane
Concen: 0.280 ug/l
RT: 9.871 min Scan# 1346
Delta R.T. 0.000 min
Lab File: VN087457.D
Acq: 05 Aug 2025 15:22

Tgt Ion: 83	Resp: 2228		
Ion Ratio	Lower	Upper	
83 100			
85 41.7	52.9	79.3#	
127 0.0	5.8	8.6#	

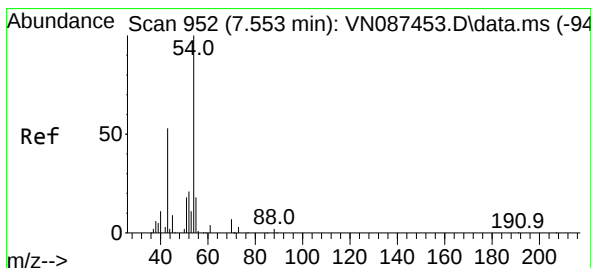
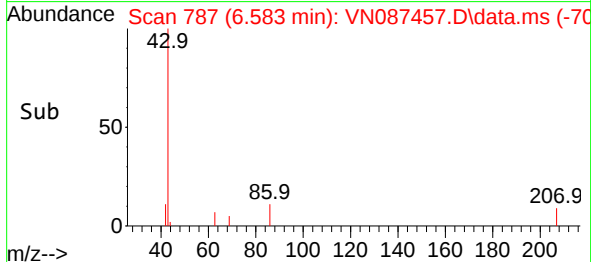
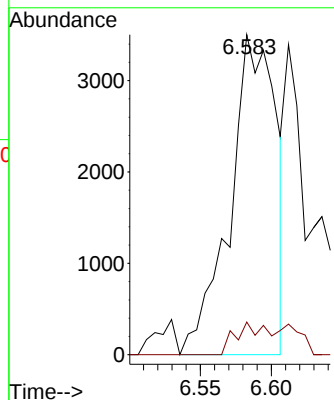
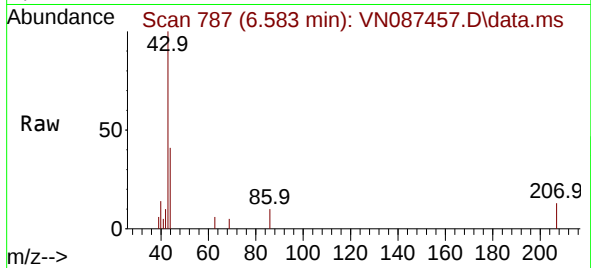




#42
 Vinyl Acetate
 Concen: 0.512 ug/l
 RT: 6.583 min Scan# 787
 Delta R.T. -0.006 min
 Lab File: VN087457.D
 Acq: 05 Aug 2025 15:22

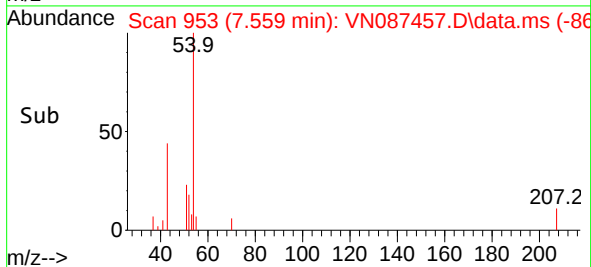
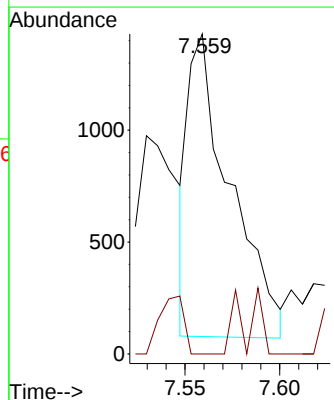
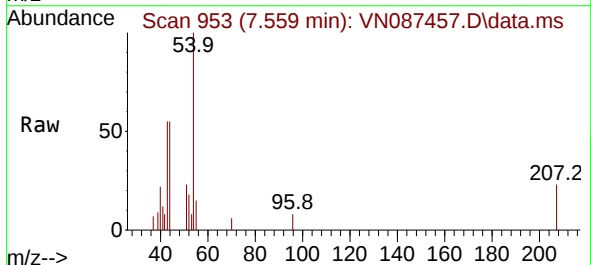
Instrument :
 MSVOA_N
 ClientSampleId :
 IBLK

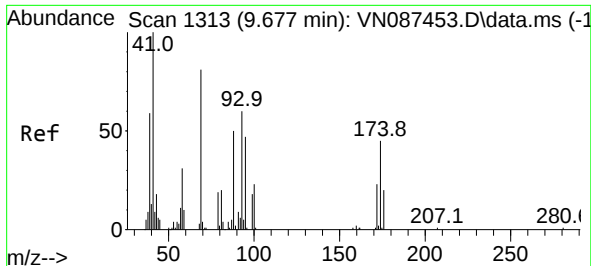
Tgt Ion: 43 Resp: 7834
 Ion Ratio Lower Upper
 43 100
 86 4.5 7.3 10.9#



#43
 Ethyl Acetate
 Concen: 0.233 ug/l
 RT: 7.559 min Scan# 953
 Delta R.T. 0.006 min
 Lab File: VN087457.D
 Acq: 05 Aug 2025 15:22

Tgt Ion: 43 Resp: 2092
 Ion Ratio Lower Upper
 43 100
 45 11.1 11.1 16.7#





#45

1,4-Dioxane

Concen: 38.767 ug/l

RT: 9.682 min Scan# 11

Delta R.T. 0.006 min

Lab File: VN087457.D

Acq: 05 Aug 2025 15:22

Instrument :

MSVOA_N

ClientSampleId :

IBLK

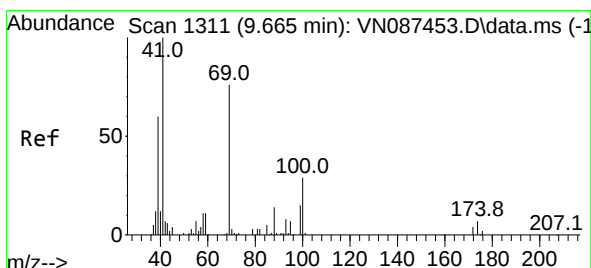
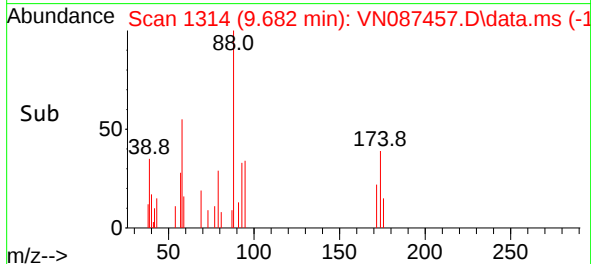
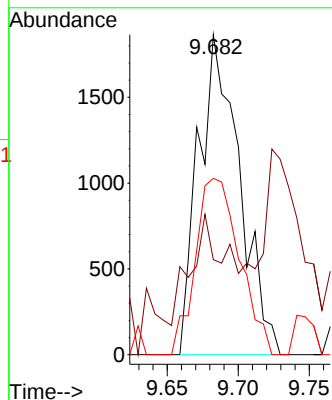
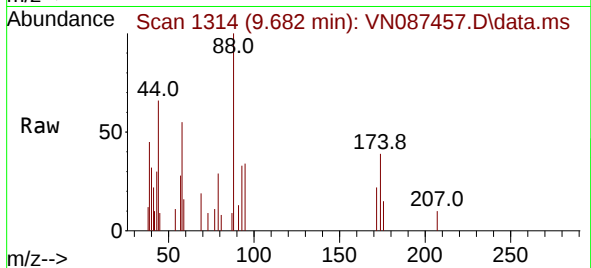
Tgt Ion: 88 Resp: 3759

Ion Ratio Lower Upper

88 100

43 5.8 24.1 36.1#

58 59.2 57.2 85.8



#46

Methyl methacrylate

Concen: 0.320 ug/l

RT: 9.665 min Scan# 1311

Delta R.T. 0.000 min

Lab File: VN087457.D

Acq: 05 Aug 2025 15:22

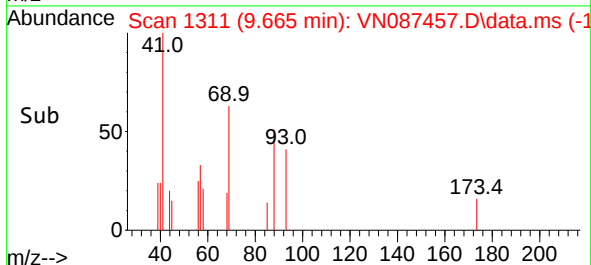
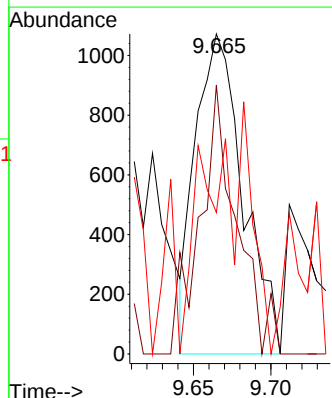
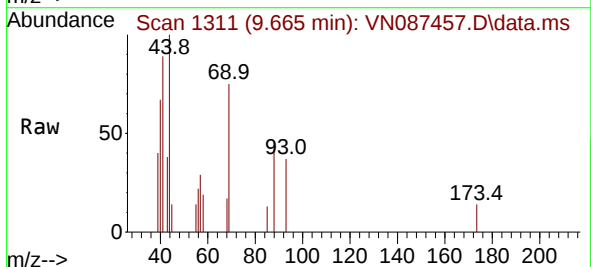
Tgt Ion: 41 Resp: 2294

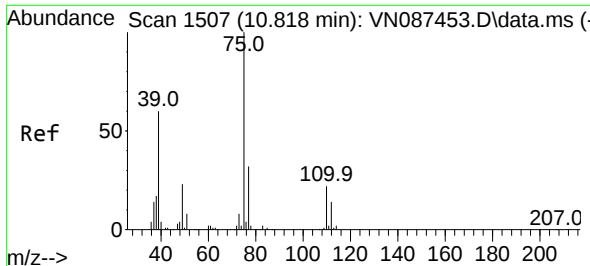
Ion Ratio Lower Upper

41 100

69 84.0 37.1 111.5

39 44.2 30.7 92.1

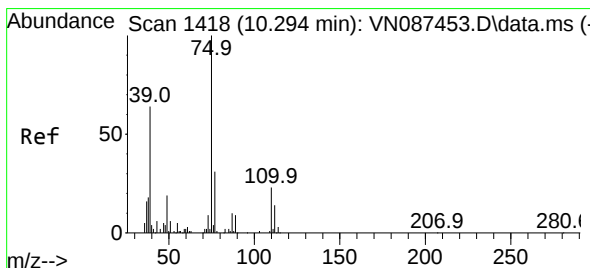
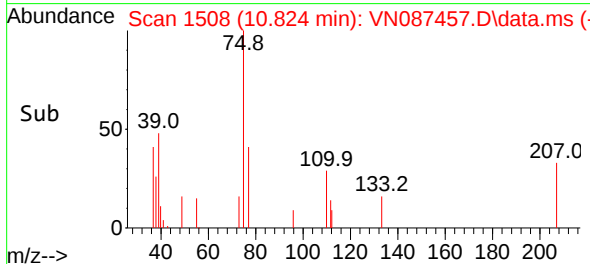
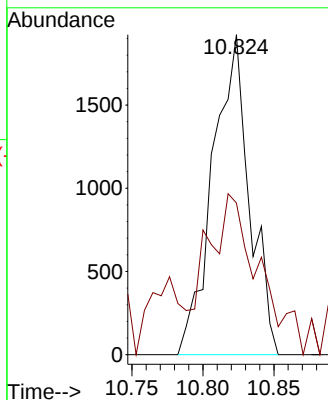
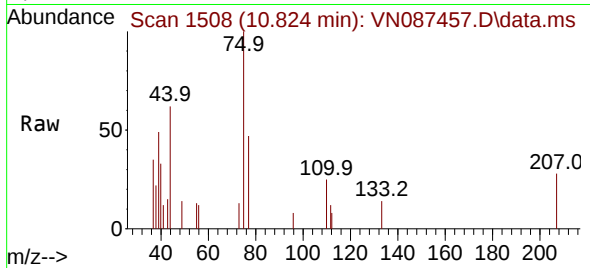




#48
 t-1,3-Dichloropropene
 Concen: 0.400 ug/l
 RT: 10.824 min Scan# 11
 Delta R.T. 0.006 min
 Lab File: VN087457.D
 Acq: 05 Aug 2025 15:22

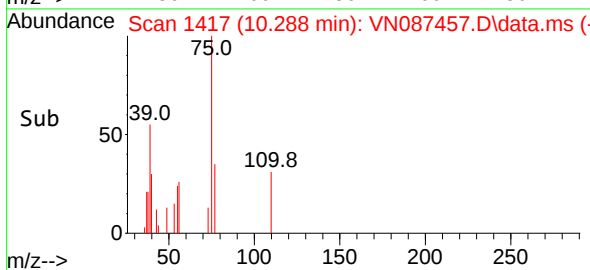
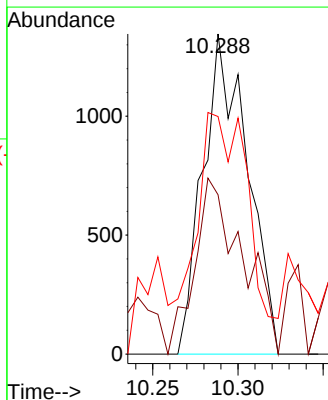
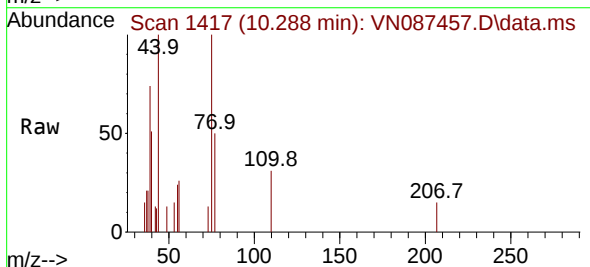
Instrument :
 MSVOA_N
 ClientSampleId :
 IBLK

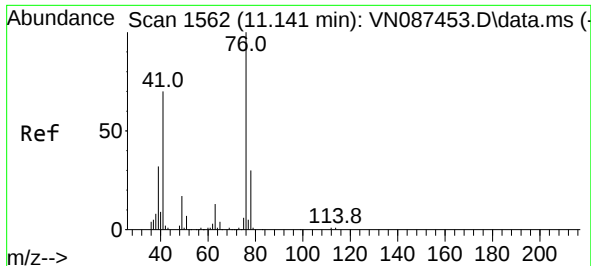
Tgt Ion: 75 Resp: 3456
 Ion Ratio Lower Upper
 75 100
 77 38.6 25.3 37.9#



#49
 cis-1,3-Dichloropropene
 Concen: 0.281 ug/l
 RT: 10.288 min Scan# 1417
 Delta R.T. -0.006 min
 Lab File: VN087457.D
 Acq: 05 Aug 2025 15:22

Tgt Ion: 75 Resp: 2442
 Ion Ratio Lower Upper
 75 100
 77 49.8 24.6 36.8#
 39 63.1 51.5 77.3

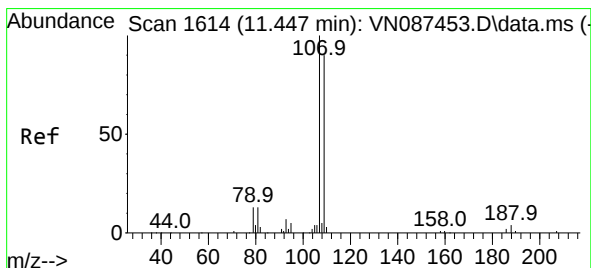
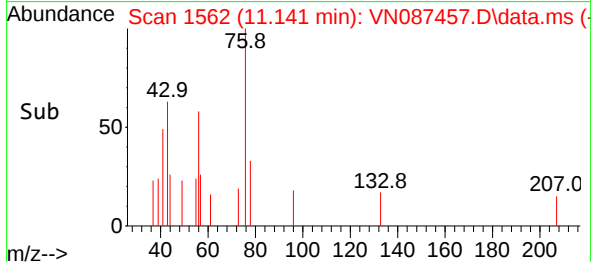
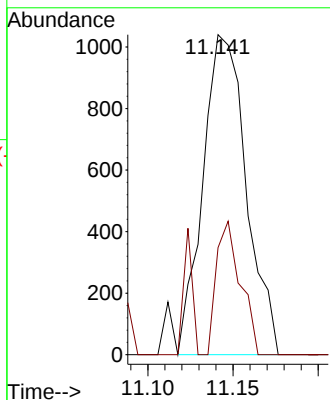
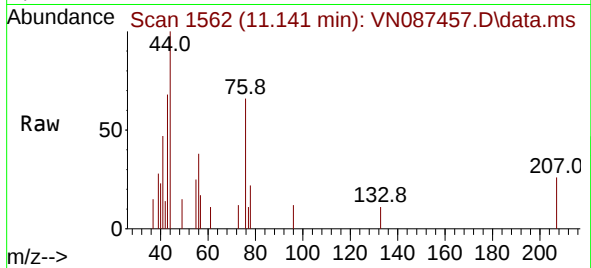




#52
1,3-Dichloropropane
Concen: 0.212 ug/l
RT: 11.141 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN087457.D
Acq: 05 Aug 2025 15:22

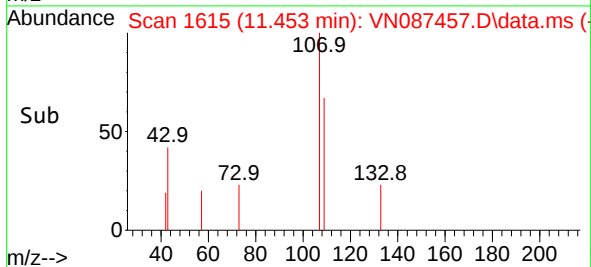
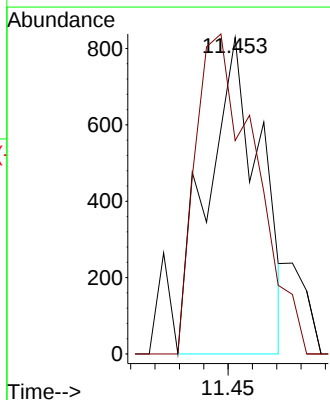
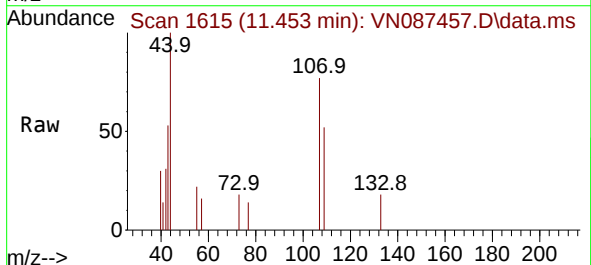
Instrument :
MSVOA_N
ClientSampleId :
IBLK

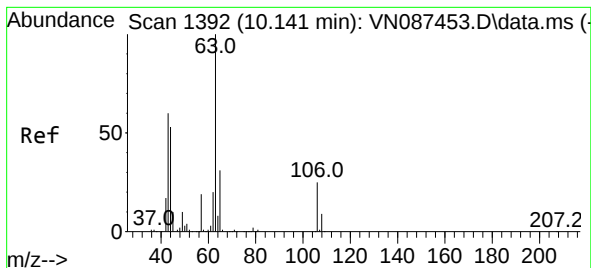
Tgt Ion: 76 Resp: 1844
Ion Ratio Lower Upper
76 100
78 23.2 0.0 63.0



#54
1,2-Dibromoethane
Concen: 0.243 ug/l
RT: 11.453 min Scan# 1615
Delta R.T. 0.006 min
Lab File: VN087457.D
Acq: 05 Aug 2025 15:22

Tgt Ion: 107 Resp: 1247
Ion Ratio Lower Upper
107 100
109 114.7 74.2 111.4#

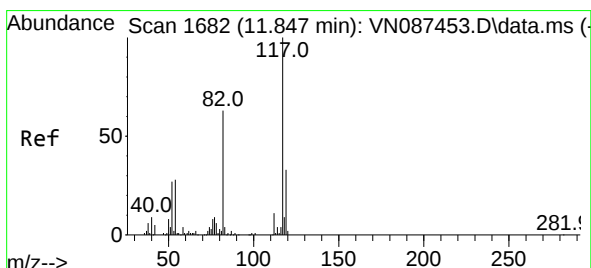
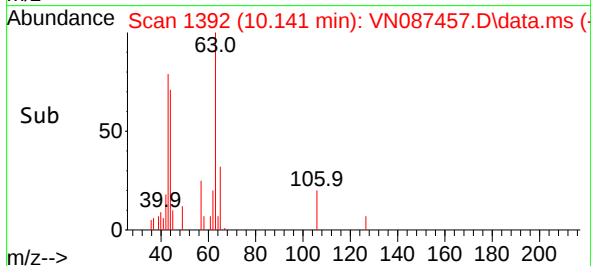
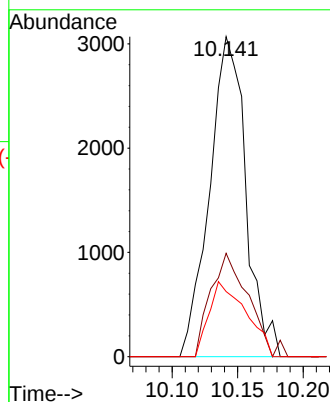
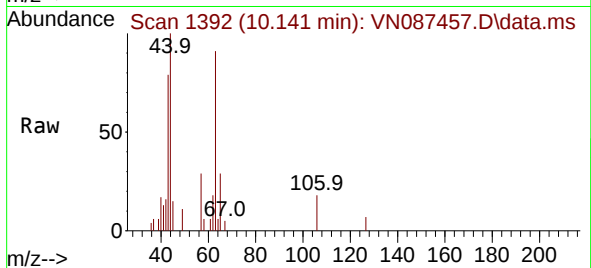




#55
2-Chloroethyl vinyl ether
Concen: 1.316 ug/l
RT: 10.141 min Scan# 1392
Delta R.T. 0.000 min
Lab File: VN087457.D
Acq: 05 Aug 2025 15:22

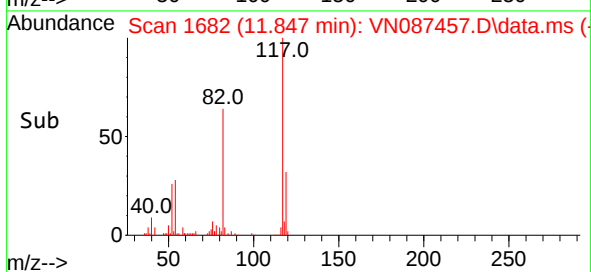
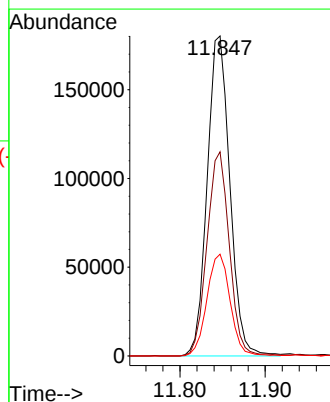
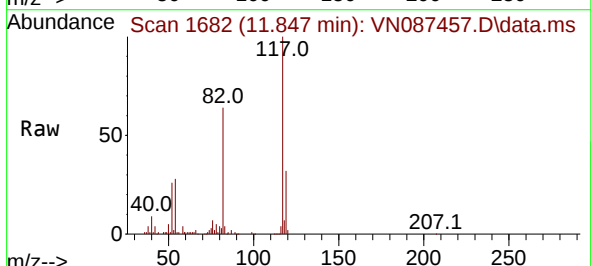
Instrument :
MSVOA_N
ClientSampleId :
IBLK

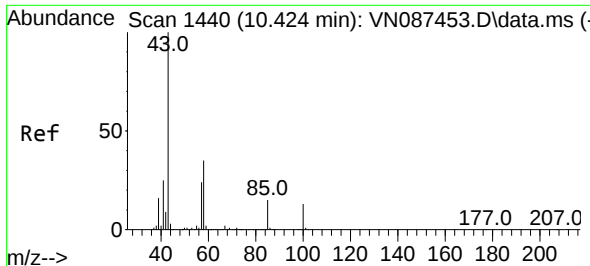
Tgt Ion:	63	Resp:	5899
Ion	Ratio	Lower	Upper
63	100		
65	32.8	25.7	38.5
106	24.0	20.7	31.1



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.847 min Scan# 1682
Delta R.T. 0.000 min
Lab File: VN087457.D
Acq: 05 Aug 2025 15:22

Tgt Ion:	117	Resp:	333546
Ion	Ratio	Lower	Upper
117	100		
82	62.5	49.2	73.8
119	32.6	25.7	38.5

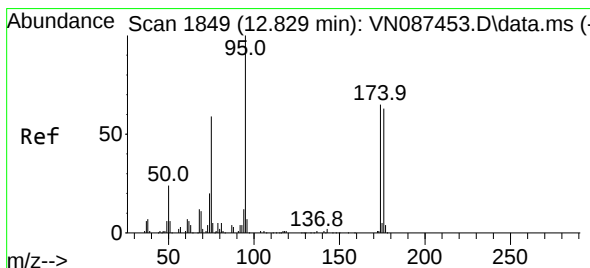
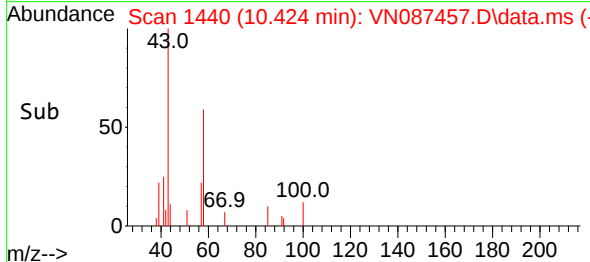
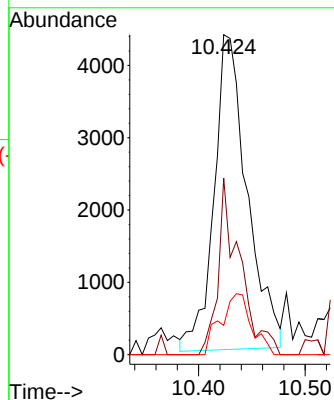
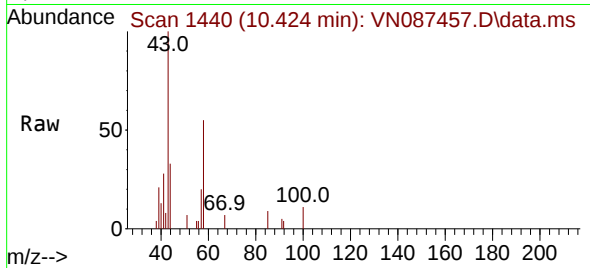




#58
4-Methyl-2-Pentanone
Concen: 1.096 ug/l
RT: 10.424 min Scan# 1440
Delta R.T. 0.000 min
Lab File: VN087457.D
Acq: 05 Aug 2025 15:22

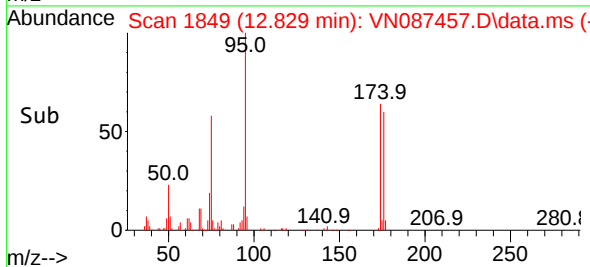
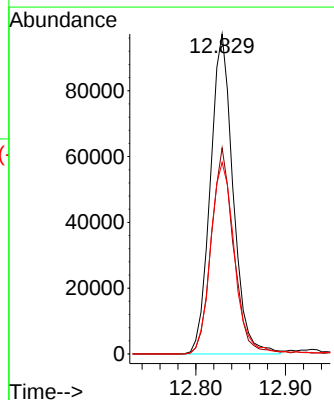
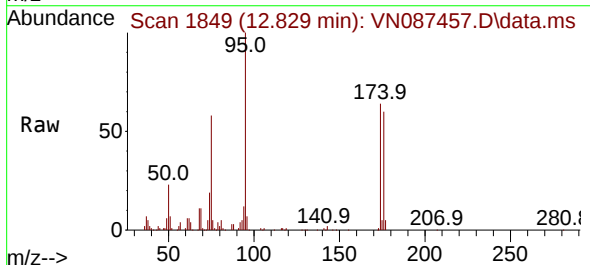
Instrument :
MSVOA_N
ClientSampleId :
IBLK

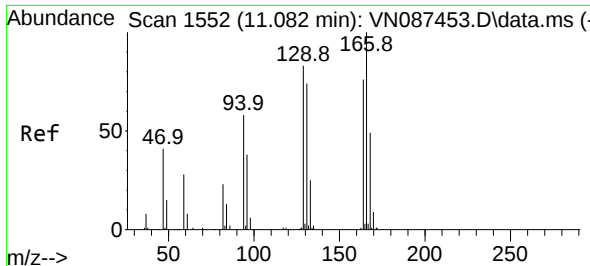
Tgt Ion: 43 Resp: 9404
Ion Ratio Lower Upper
43 100
58 19.6 29.0 43.6#
85 4.8 12.7 19.1#



#60
4-Bromofluorobenzene
Concen: 29.782 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.000 min
Lab File: VN087457.D
Acq: 05 Aug 2025 15:22

Tgt Ion: 95 Resp: 170950
Ion Ratio Lower Upper
95 100
174 63.4 52.3 78.5
176 63.5 49.8 74.8

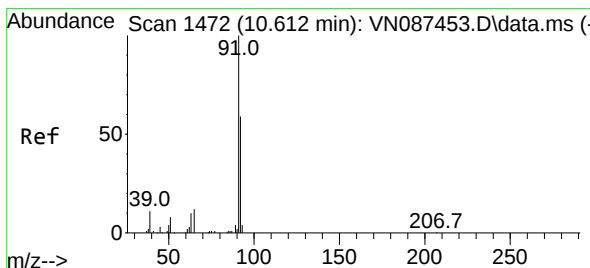
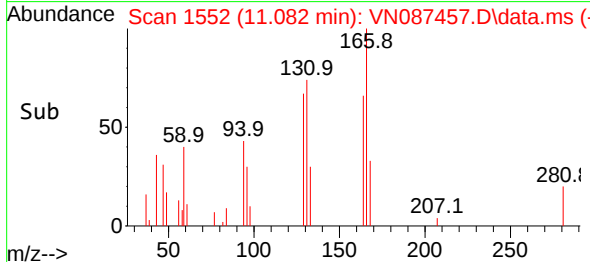
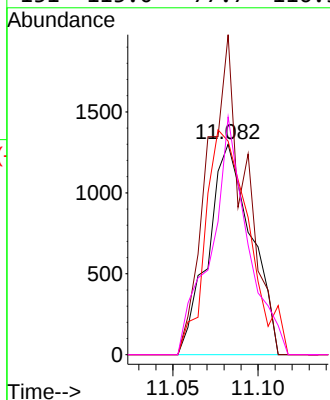
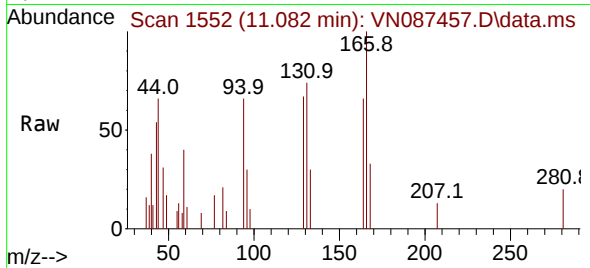




#61
Tetrachloroethene
Concen: 0.705 ug/l
RT: 11.082 min Scan# 1152
Delta R.T. 0.000 min
Lab File: VN087457.D
Acq: 05 Aug 2025 15:22

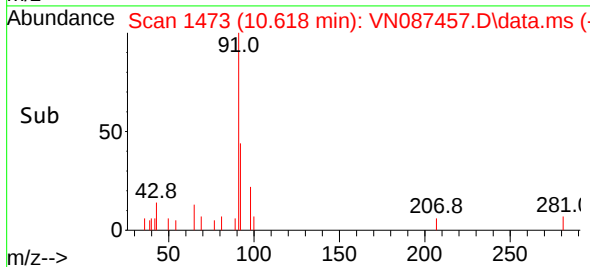
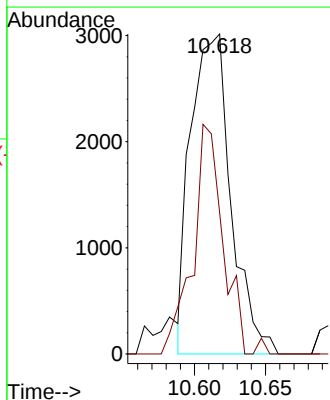
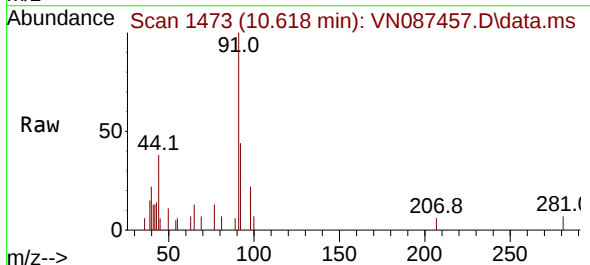
Instrument :
MSVOA_N
ClientSampleId :
IBLK

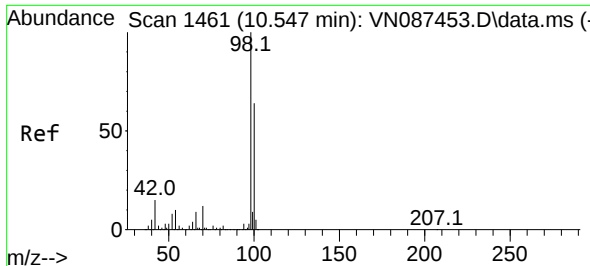
Tgt Ion:	164	Resp:	2291
Ion	Ratio	Lower	Upper
164	100		
166	152.1	105.4	158.0
129	101.5	87.7	131.5
131	113.0	77.7	116.5



#62
Toluene
Concen: 0.290 ug/l
RT: 10.618 min Scan# 1473
Delta R.T. 0.006 min
Lab File: VN087457.D
Acq: 05 Aug 2025 15:22

Tgt Ion:	91	Resp:	5980
Ion	Ratio	Lower	Upper
91	100		
92	52.9	45.8	68.6

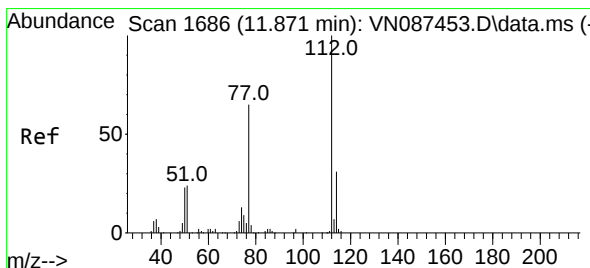
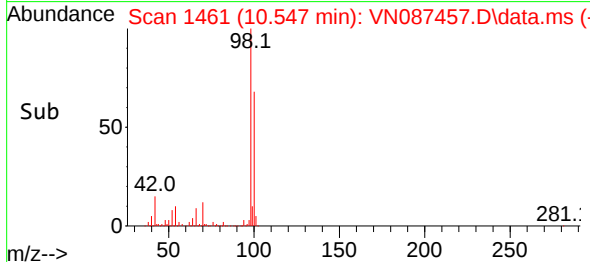
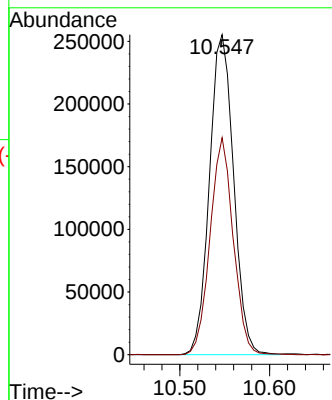
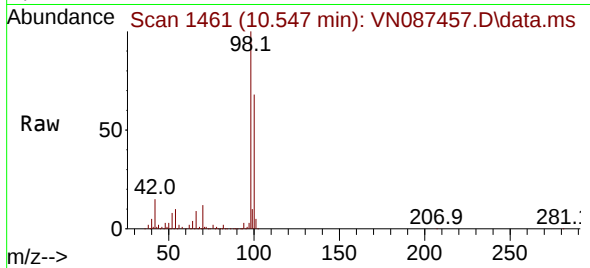




#63
Toluene-d8
Concen: 31.115 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. 0.000 min
Lab File: VN087457.D
Acq: 05 Aug 2025 15:22

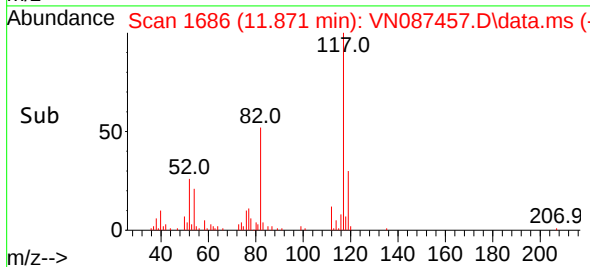
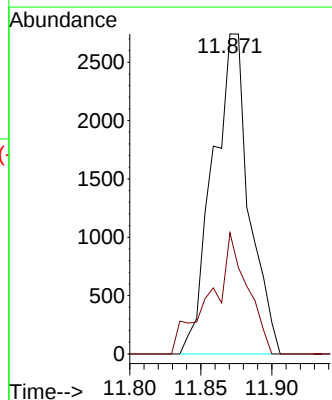
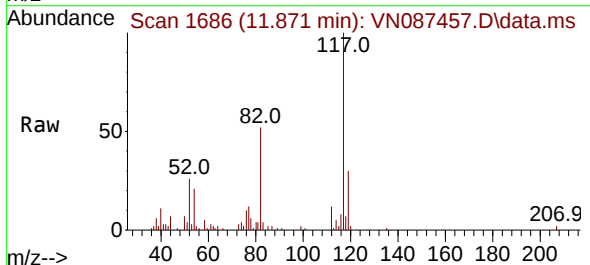
Instrument :
MSVOA_N
ClientSampleId :
IBLK

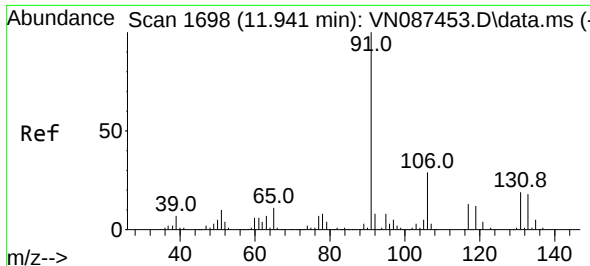
Tgt Ion: 98 Resp: 477536
Ion Ratio Lower Upper
98 100
100 65.0 50.5 75.7



#64
Chlorobenzene
Concen: 0.386 ug/l
RT: 11.871 min Scan# 1686
Delta R.T. 0.000 min
Lab File: VN087457.D
Acq: 05 Aug 2025 15:22

Tgt Ion: 112 Resp: 4883
Ion Ratio Lower Upper
112 100
114 37.9 24.7 37.1#

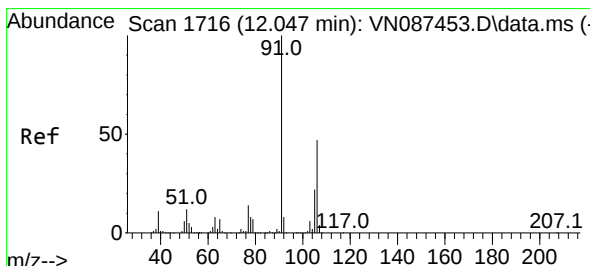
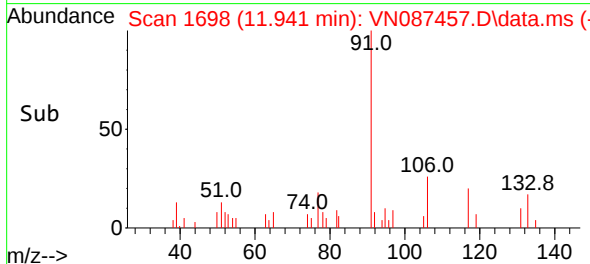
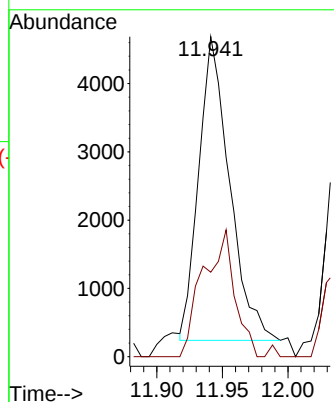
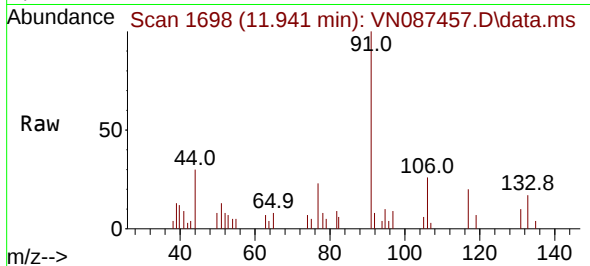




#66
Ethyl Benzene
Concen: 0.317 ug/l
RT: 11.941 min Scan# 1698
Delta R.T. 0.000 min
Lab File: VN087457.D
Acq: 05 Aug 2025 15:22

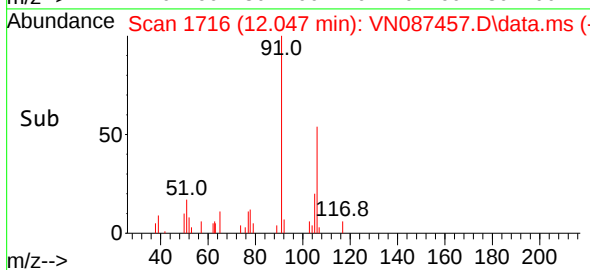
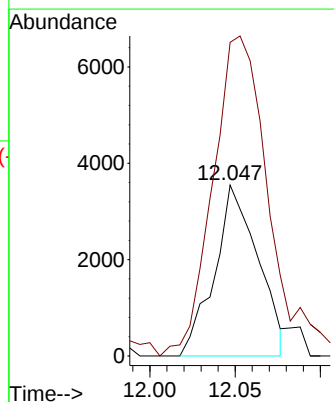
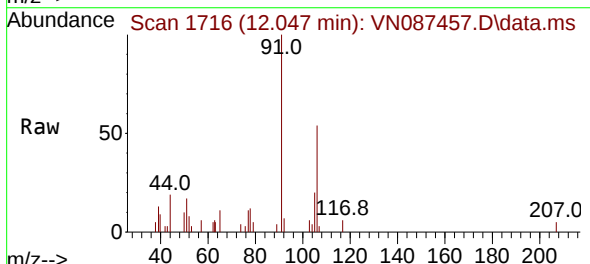
Instrument :
MSVOA_N
ClientSampleId :
IBLK

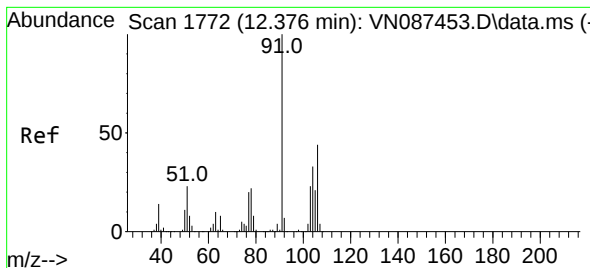
Tgt Ion: 91 Resp: 7276
Ion Ratio Lower Upper
91 100
106 27.8 22.9 34.3



#67
m/p-Xylenes
Concen: 0.746 ug/l
RT: 12.047 min Scan# 1716
Delta R.T. 0.000 min
Lab File: VN087457.D
Acq: 05 Aug 2025 15:22

Tgt Ion: 106 Resp: 6281
Ion Ratio Lower Upper
106 100
91 225.9 174.2 261.2





#68

o-Xylene

Concen: 0.298 ug/l

RT: 12.376 min Scan# 1772

Delta R.T. 0.000 min

Lab File: VN087457.D

Acq: 05 Aug 2025 15:22

Instrument :

MSVOA_N

ClientSampleId :

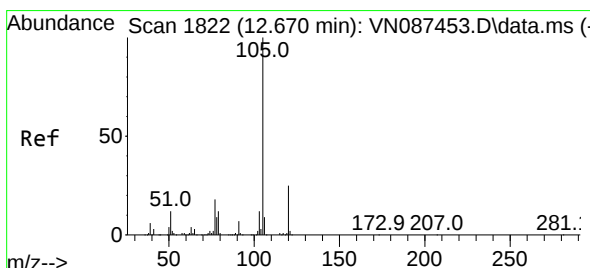
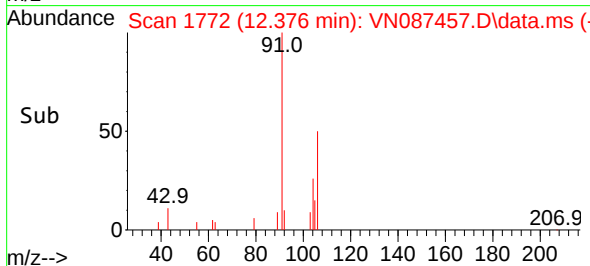
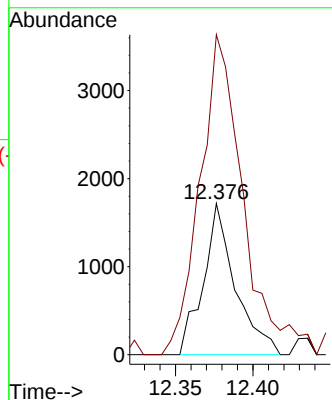
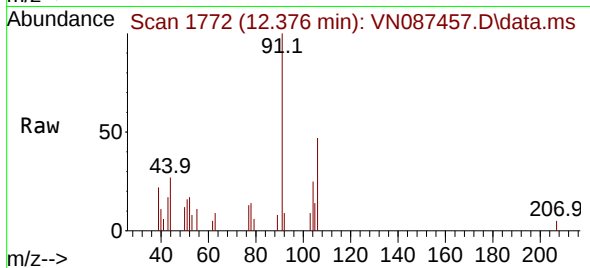
IBLK

Tgt Ion:106 Resp: 2467

Ion Ratio Lower Upper

106 100

91 273.9 114.5 343.5



#70

Isopropylbenzene

Concen: 0.507 ug/l

RT: 12.682 min Scan# 1824

Delta R.T. 0.012 min

Lab File: VN087457.D

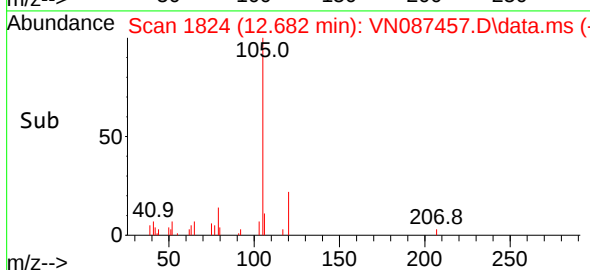
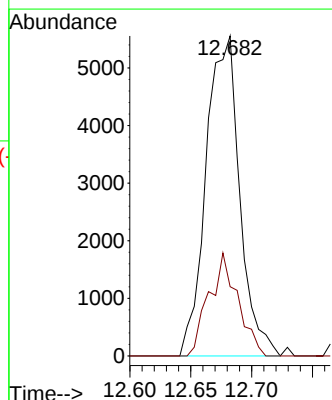
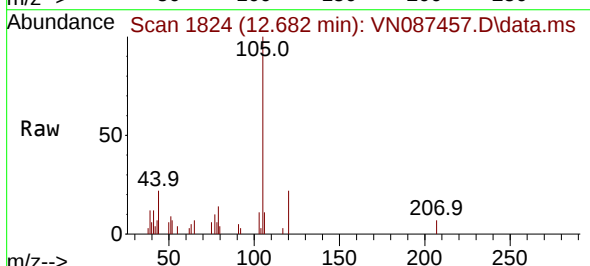
Acq: 05 Aug 2025 15:22

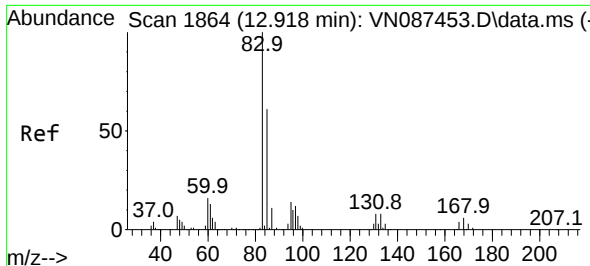
Tgt Ion:105 Resp: 10667

Ion Ratio Lower Upper

105 100

120 27.7 17.5 32.5

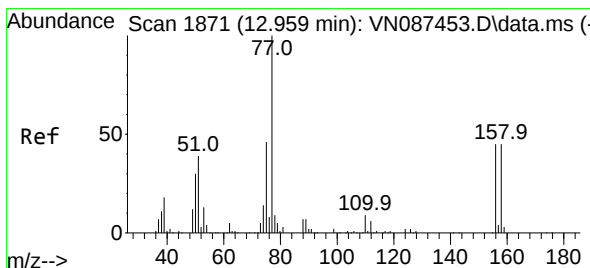
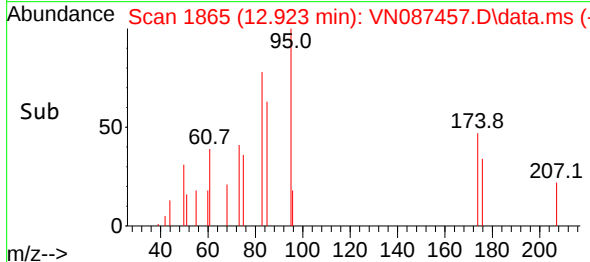
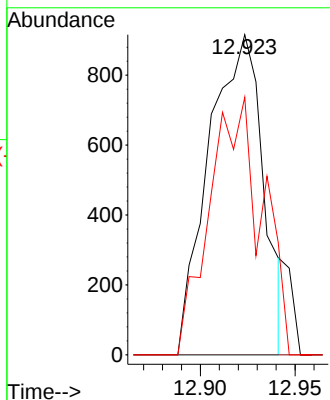
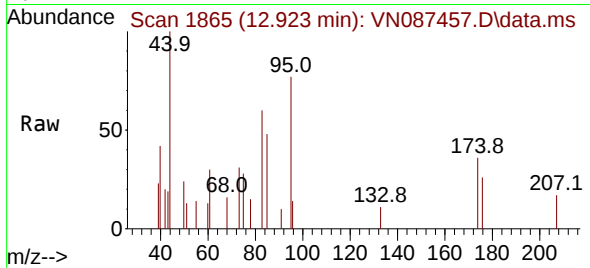




#71
1,1,2,2-Tetrachloroethane
Concen: 0.254 ug/l
RT: 12.923 min Scan# 1865
Delta R.T. 0.006 min
Lab File: VN087457.D
Acq: 05 Aug 2025 15:22

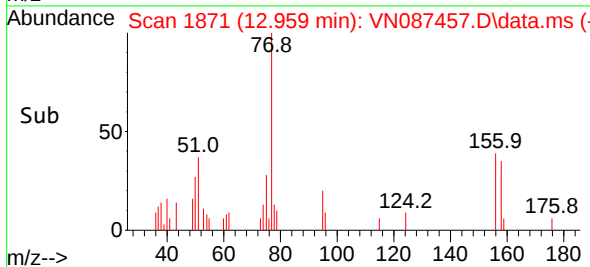
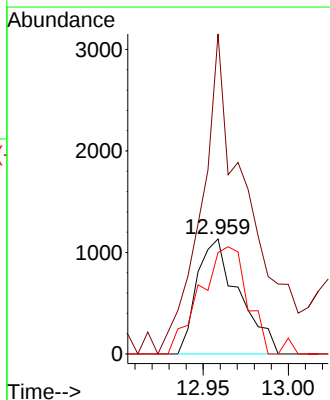
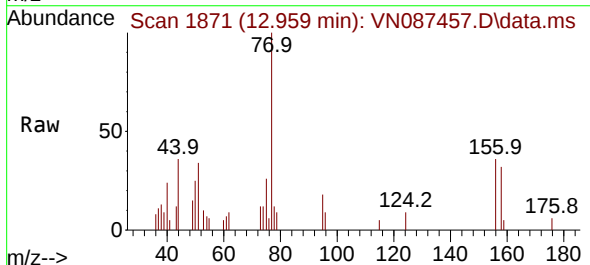
Instrument :
MSVOA_N
ClientSampleId :
IBLK

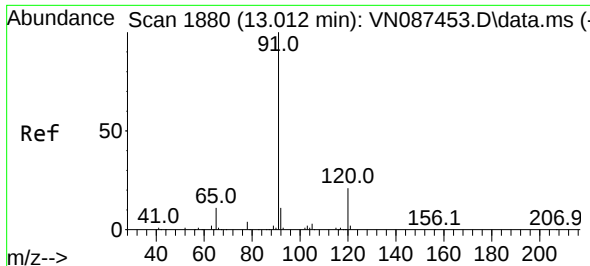
Tgt Ion: 83 Resp: 1832
Ion Ratio Lower Upper
83 100
131 0.0 4.8 14.3#
85 61.8 31.7 95.1



#73
Bromobenzene
Concen: 0.398 ug/l
RT: 12.959 min Scan# 1871
Delta R.T. 0.000 min
Lab File: VN087457.D
Acq: 05 Aug 2025 15:22

Tgt Ion:156 Resp: 1940
Ion Ratio Lower Upper
156 100
77 171.5 0.0 506.6
158 104.5 0.0 193.6

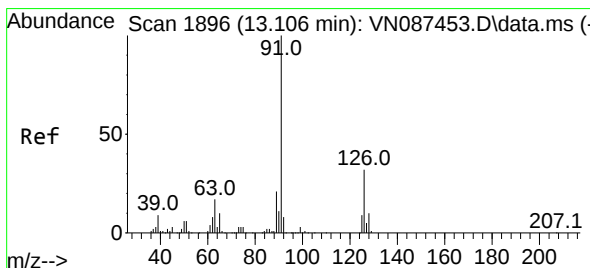
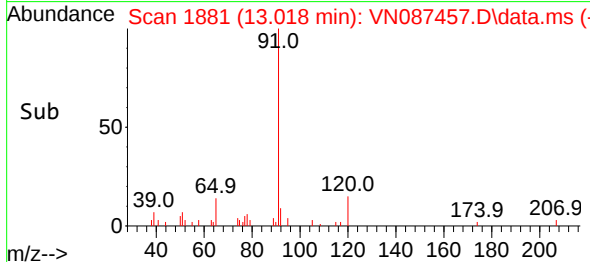
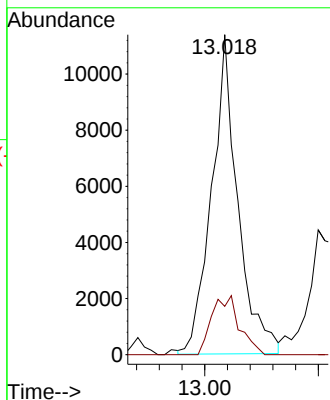
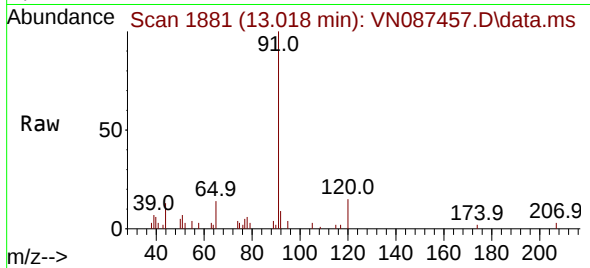




#74
n-propylbenzene
Concen: 0.693 ug/l
RT: 13.018 min Scan# 1880
Delta R.T. 0.006 min
Lab File: VN087457.D
Acq: 05 Aug 2025 15:22

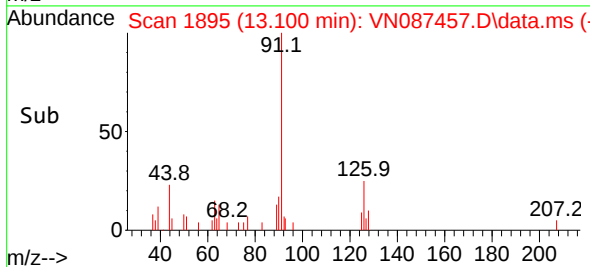
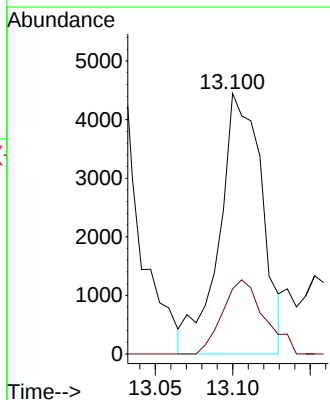
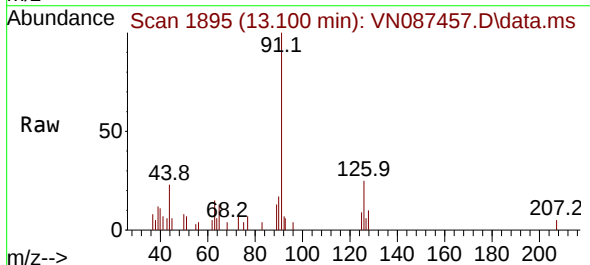
Instrument :
MSVOA_N
ClientSampleId :
IBLK

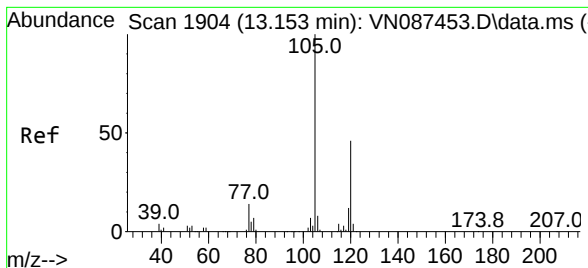
Tgt Ion: 91 Resp: 18209
Ion Ratio Lower Upper
91 100
120 19.6 0.0 41.8



#75
2-Chlorotoluene
Concen: 0.526 ug/l
RT: 13.100 min Scan# 1895
Delta R.T. -0.006 min
Lab File: VN087457.D
Acq: 05 Aug 2025 15:22

Tgt Ion: 91 Resp: 8504
Ion Ratio Lower Upper
91 100
126 27.8 0.0 60.4





#76

1,3,5-Trimethylbenzene

Concen: 0.680 ug/l

RT: 13.147 min Scan# 1903

Delta R.T. -0.006 min

Lab File: VN087457.D

Acq: 05 Aug 2025 15:22

Instrument :

MSVOA_N

ClientSampleId :

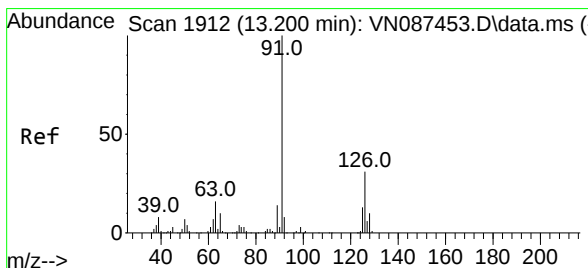
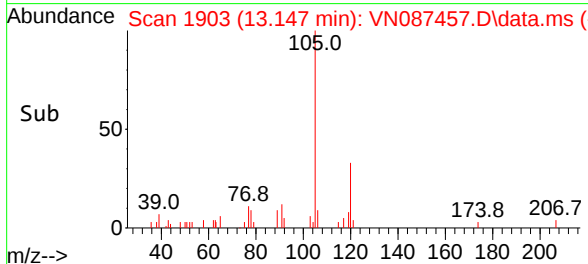
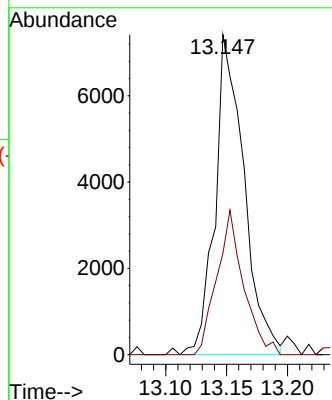
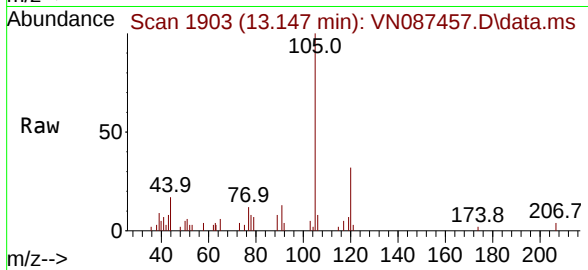
IBLK

Tgt Ion:105 Resp: 12261

Ion Ratio Lower Upper

105 100

120 41.7 0.0 91.2



#78

4-Chlorotoluene

Concen: 0.681 ug/l

RT: 13.206 min Scan# 1913

Delta R.T. 0.006 min

Lab File: VN087457.D

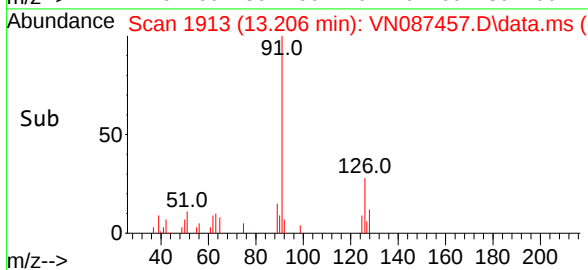
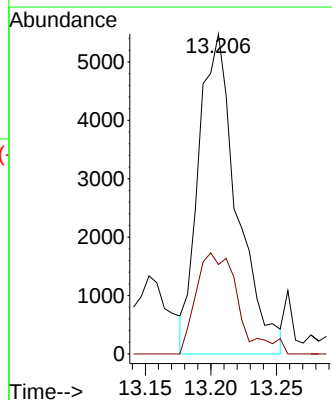
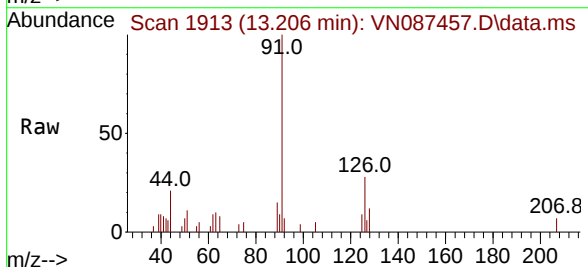
Acq: 05 Aug 2025 15:22

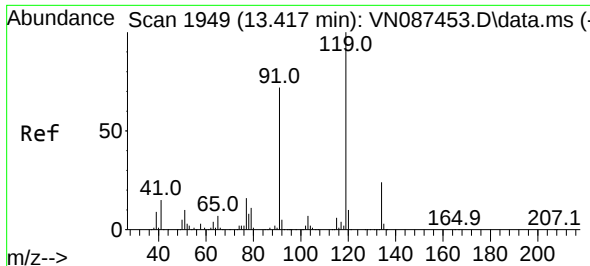
Tgt Ion: 91 Resp: 11164

Ion Ratio Lower Upper

91 100

126 31.7 0.0 63.2

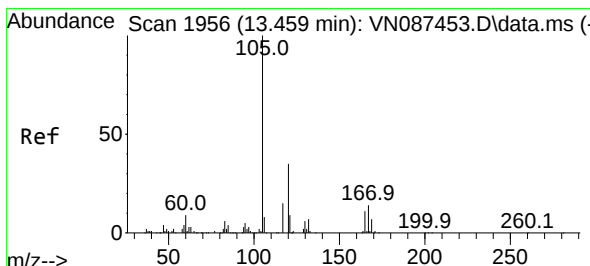
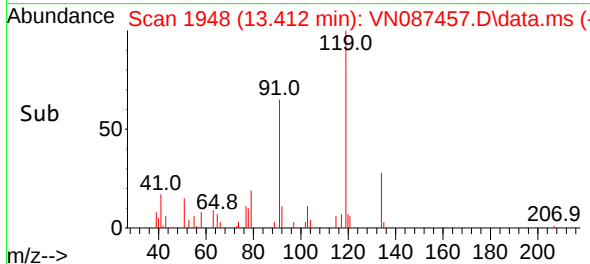
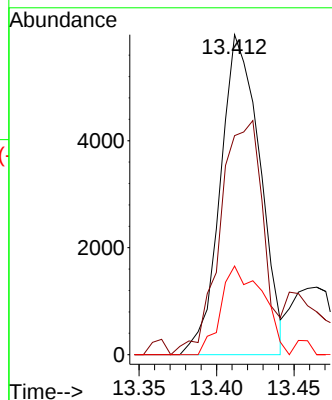
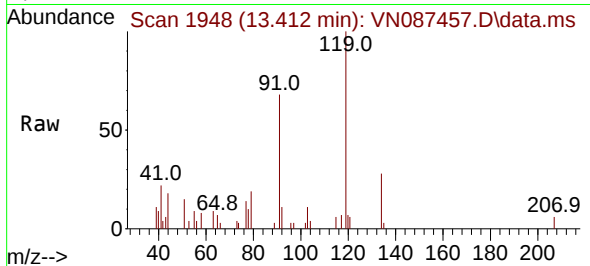




#79
tert-butylbenzene
Concen: 0.698 ug/l
RT: 13.412 min Scan# 1948
Delta R.T. -0.006 min
Lab File: VN087457.D
Acq: 05 Aug 2025 15:22

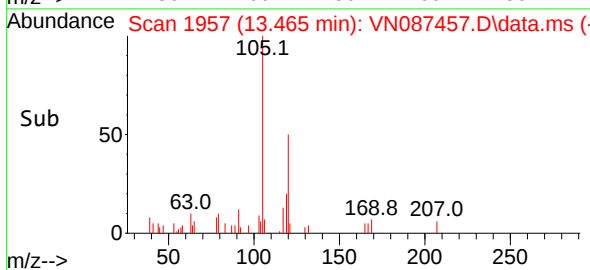
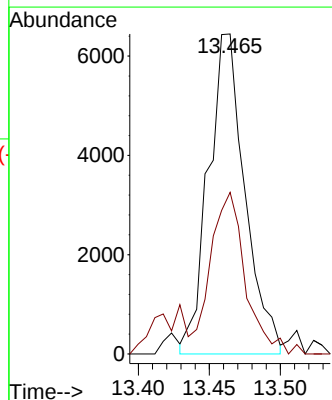
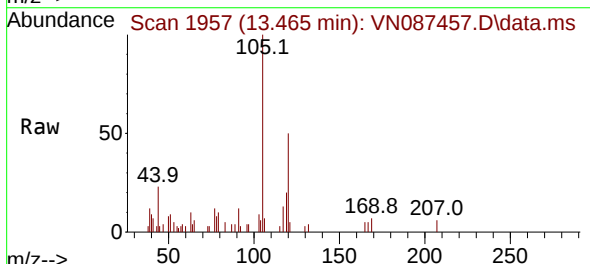
Instrument :
MSVOA_N
ClientSampleId :
IBLK

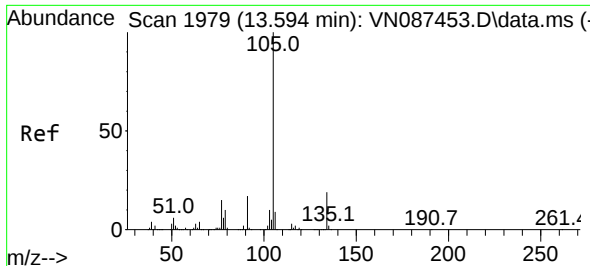
Tgt Ion:	119	Resp:	10601
Ion	Ratio	Lower	Upper
119	100		
91	77.7	0.0	141.6
134	29.3	0.0	45.6



#80
1,2,4-Trimethylbenzene
Concen: 0.640 ug/l
RT: 13.465 min Scan# 1957
Delta R.T. 0.006 min
Lab File: VN087457.D
Acq: 05 Aug 2025 15:22

Tgt Ion:	105	Resp:	11522
Ion	Ratio	Lower	Upper
105	100		
120	47.7	0.0	87.2

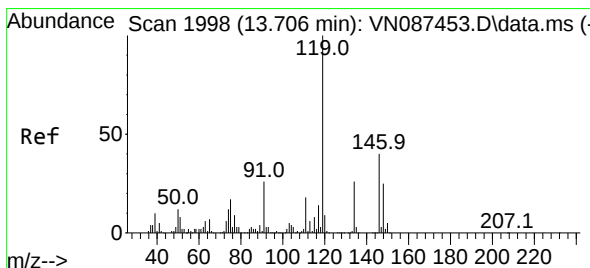
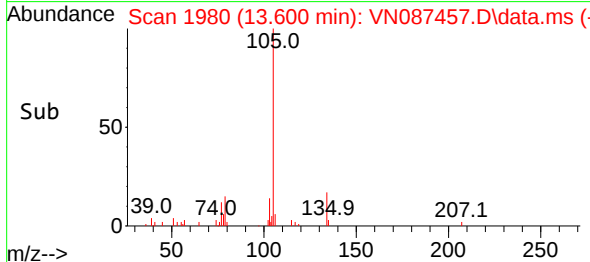
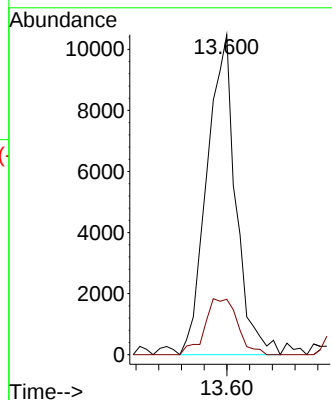
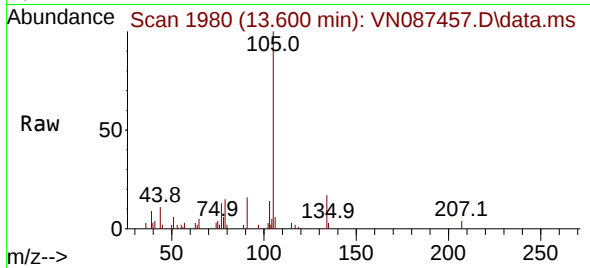




#81
 sec-Butylbenzene
 Concen: 0.834 ug/l
 RT: 13.600 min Scan# 1980
 Delta R.T. 0.006 min
 Lab File: VN087457.D
 Acq: 05 Aug 2025 15:22

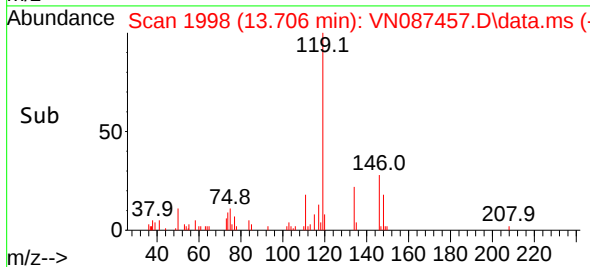
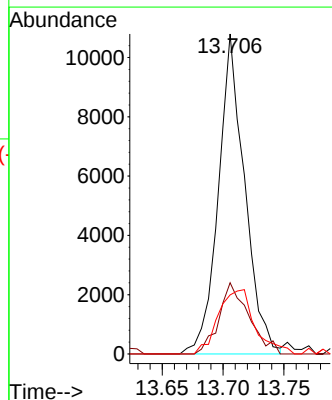
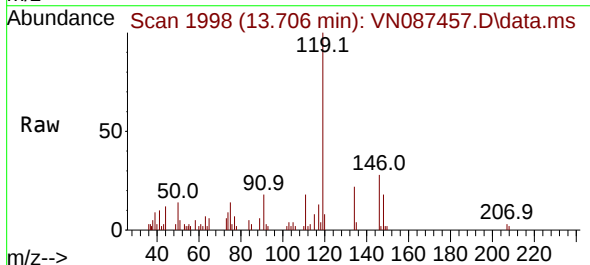
Instrument :
 MSVOA_N
 ClientSampleId :
 IBLK

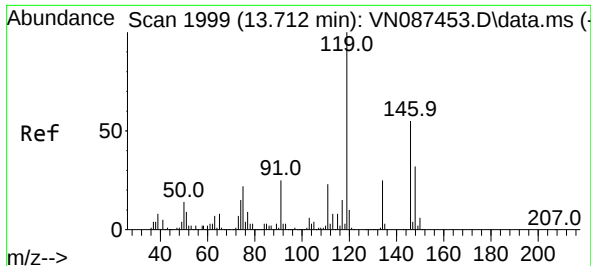
Tgt Ion:105 Resp: 18441
 Ion Ratio Lower Upper
 105 100
 134 14.8 0.0 37.6



#82
 p-Isopropyltoluene
 Concen: 0.886 ug/l
 RT: 13.706 min Scan# 1998
 Delta R.T. 0.000 min
 Lab File: VN087457.D
 Acq: 05 Aug 2025 15:22

Tgt Ion:119 Resp: 16273
 Ion Ratio Lower Upper
 119 100
 134 25.3 0.0 51.4
 91 27.8 0.0 52.0

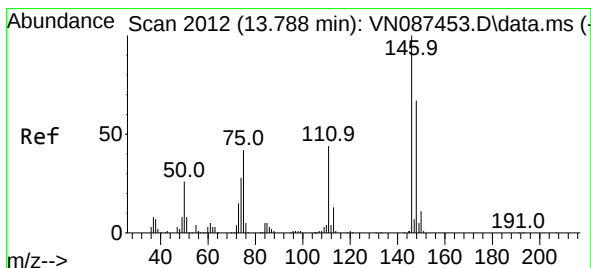
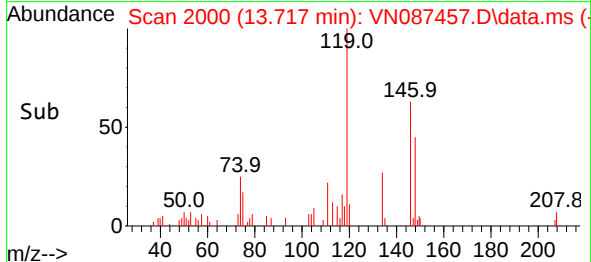
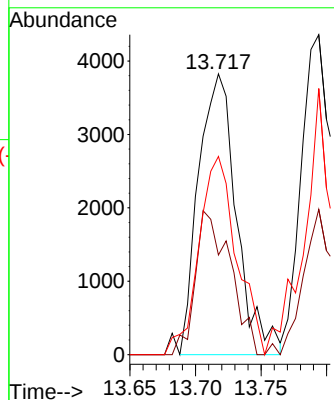
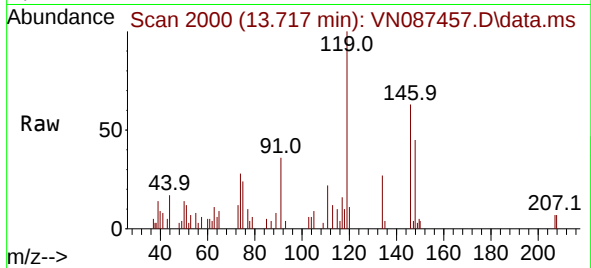




#83
 1,3-Dichlorobenzene
 Concen: 0.831 ug/l
 RT: 13.717 min Scan# 2000
 Delta R.T. 0.006 min
 Lab File: VN087457.D
 Acq: 05 Aug 2025 15:22

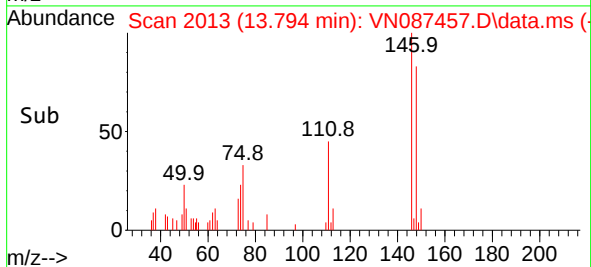
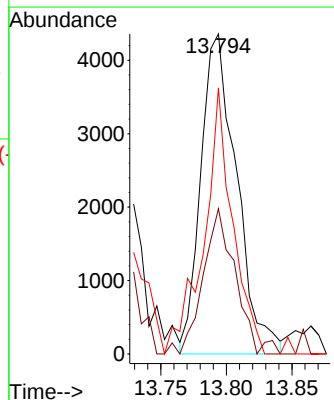
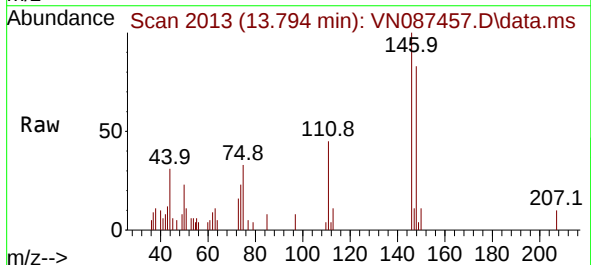
Instrument :
 MSVOA_N
 ClientSampleId :
 IBLK

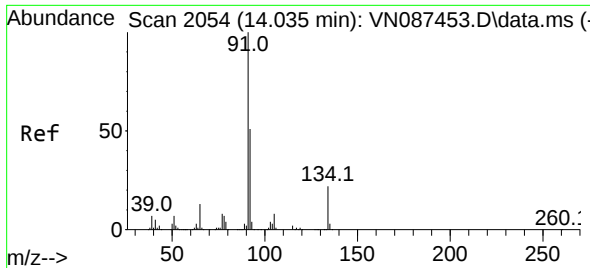
Tgt Ion:146 Resp: 7718
 Ion Ratio Lower Upper
 146 100
 111 47.0 21.9 65.5
 148 67.6 31.3 93.9



#84
 1,4-Dichlorobenzene
 Concen: 0.878 ug/l
 RT: 13.794 min Scan# 2013
 Delta R.T. 0.006 min
 Lab File: VN087457.D
 Acq: 05 Aug 2025 15:22

Tgt Ion:146 Resp: 8274
 Ion Ratio Lower Upper
 146 100
 111 39.1 21.1 63.1
 148 66.6 31.4 94.3

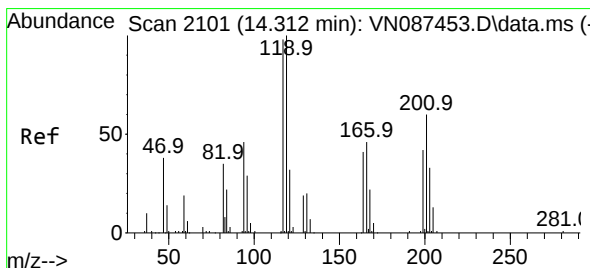
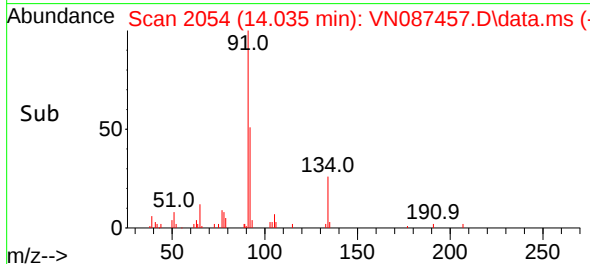
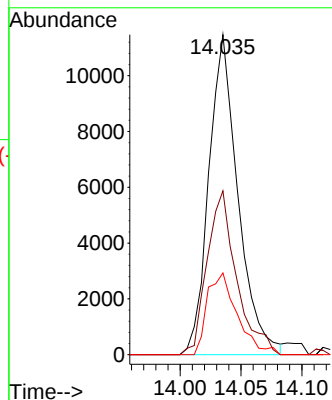
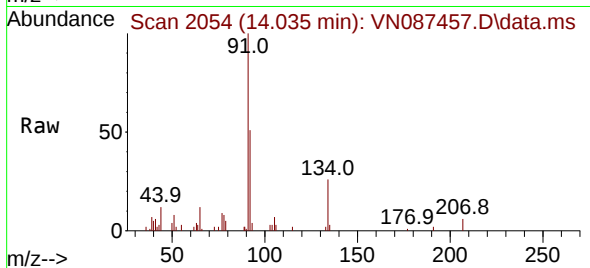




#85
n-Butylbenzene
Concen: 1.063 ug/l
RT: 14.035 min Scan# 2054
Delta R.T. 0.000 min
Lab File: VN087457.D
Acq: 05 Aug 2025 15:22

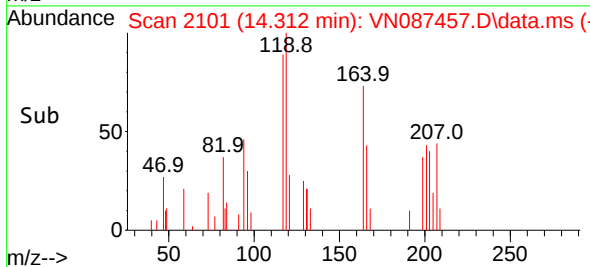
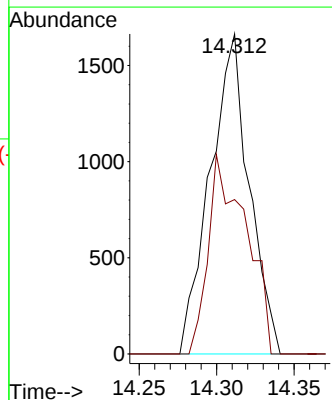
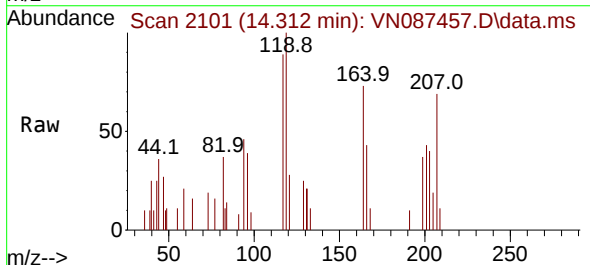
Instrument :
MSVOA_N
ClientSampleId :
IBLK

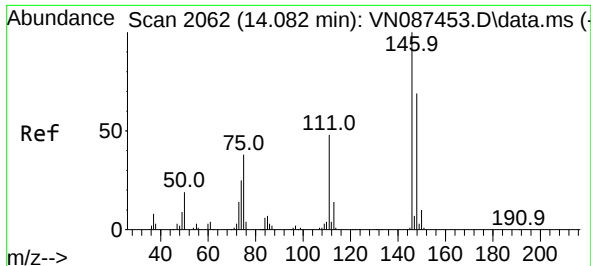
Tgt Ion:	91	Resp:	19109
Ion	Ratio	Lower	Upper
91	100		
92	51.6	0.0	106.6
134	25.8	0.0	44.4



#86
Hexachloroethane
Concen: 0.813 ug/l
RT: 14.312 min Scan# 2101
Delta R.T. 0.000 min
Lab File: VN087457.D
Acq: 05 Aug 2025 15:22

Tgt Ion:	117	Resp:	2917
Ion	Ratio	Lower	Upper
117	100		
201	29.8	29.1	87.4





#87

1,2-Dichlorobenzene

Concen: 0.668 ug/l

RT: 14.088 min Scan# 2062

Delta R.T. 0.006 min

Lab File: VN087457.D

Acq: 05 Aug 2025 15:22

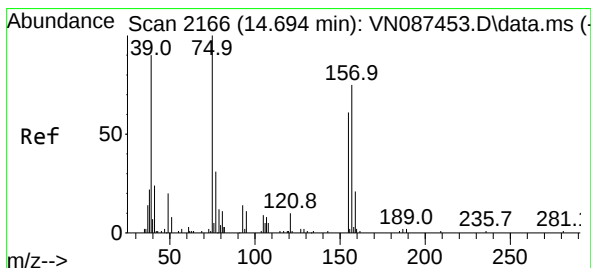
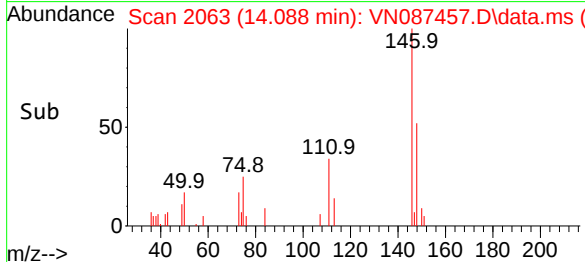
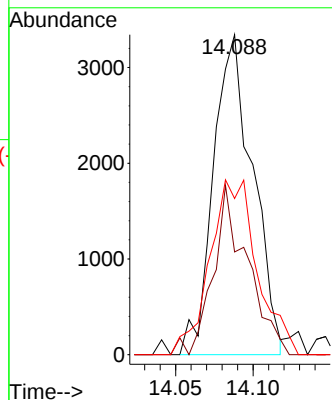
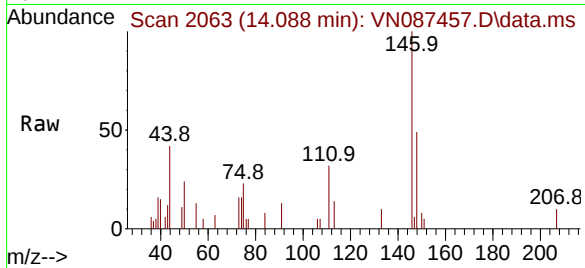
Instrument :

MSVOA_N

ClientSampleId :

IBLK

Tgt Ion:	146	Resp:	5929
Ion Ratio	Lower	Upper	
146	100		
111	45.0	22.9	68.7
148	65.4	31.6	94.7



#88

1,2-Dibromo-3-Chloropropane

Concen: 0.397 ug/l

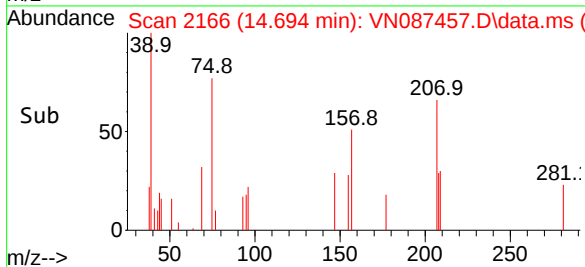
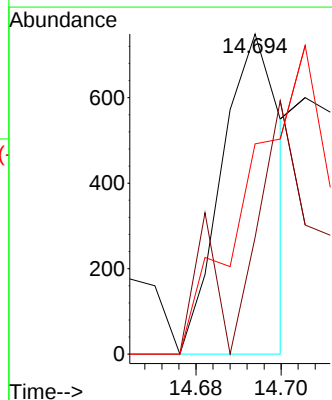
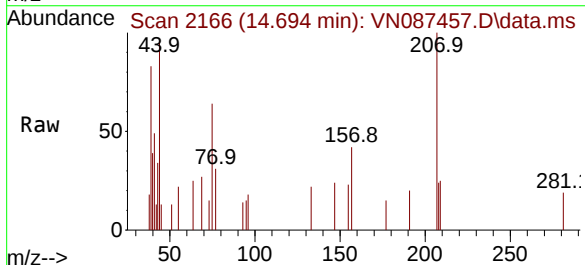
RT: 14.694 min Scan# 2166

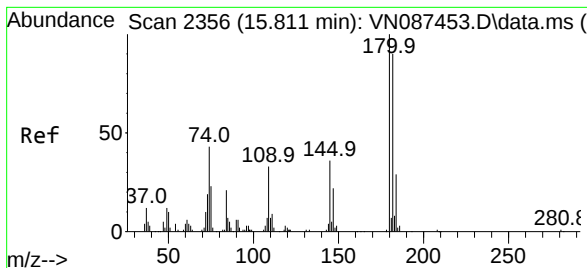
Delta R.T. 0.000 min

Lab File: VN087457.D

Acq: 05 Aug 2025 15:22

Tgt Ion:	75	Resp:	726
Ion Ratio	Lower	Upper	
75	100		
155	70.2	55.7	83.5
157	135.0	65.8	98.6





#89

1,2,4-Trichlorobenzene

Concen: 1.930 ug/l

RT: 15.811 min Scan# 21

Delta R.T. 0.000 min

Lab File: VN087457.D

Acq: 05 Aug 2025 15:22

Instrument :

MSVOA_N

ClientSampleId :

IBLK

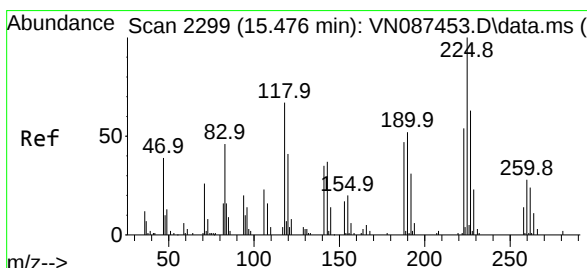
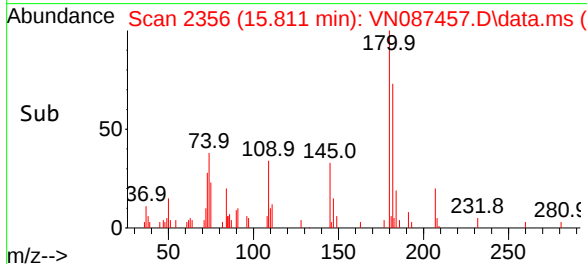
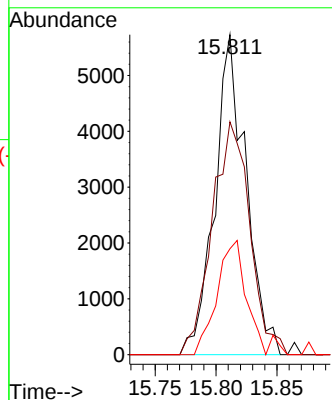
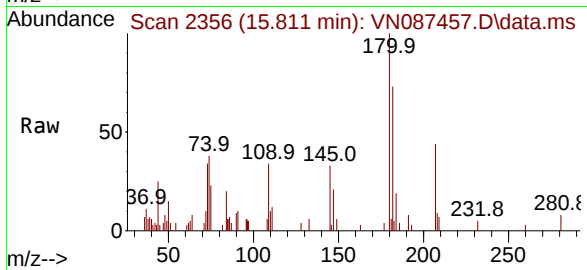
Tgt Ion:180 Resp: 10233

Ion Ratio Lower Upper

180 100

182 86.8 75.0 112.4

145 33.2 28.6 43.0



#90

Hexachlorobutadiene

Concen: 2.300 ug/l

RT: 15.470 min Scan# 2298

Delta R.T. -0.006 min

Lab File: VN087457.D

Acq: 05 Aug 2025 15:22

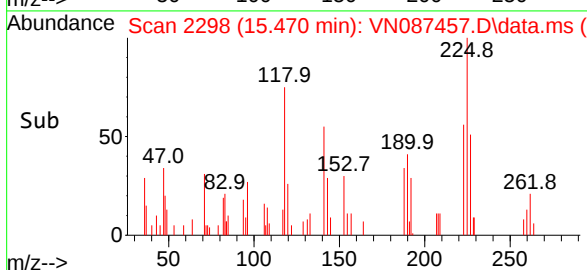
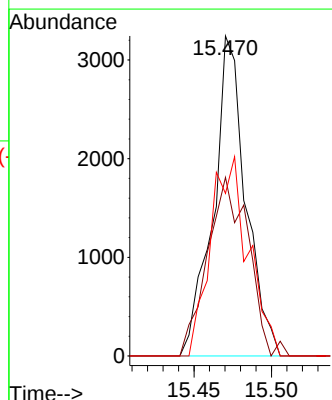
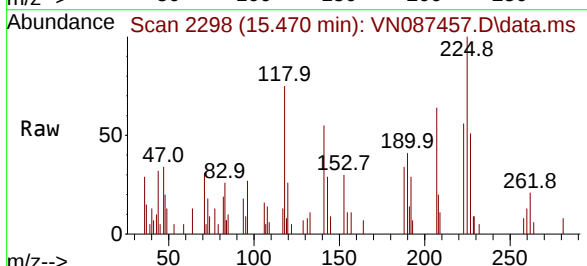
Tgt Ion:225 Resp: 4742

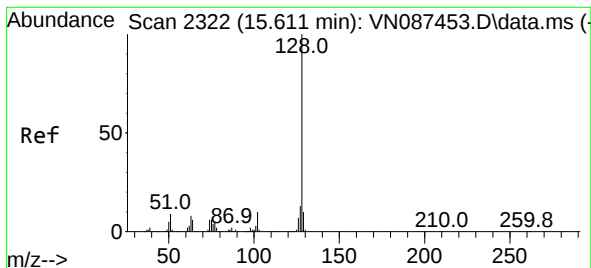
Ion Ratio Lower Upper

225 100

223 68.9 0.0 116.0

227 71.9 0.0 127.0





#91

Naphthalene

Concen: 1.669 ug/l

RT: 15.611 min Scan# 2322

Delta R.T. 0.000 min

Lab File: VN087457.D

Acq: 05 Aug 2025 15:22

Instrument :

MSVOA_N

ClientSampleId :

IBLK

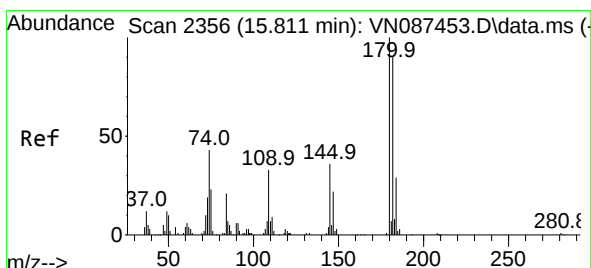
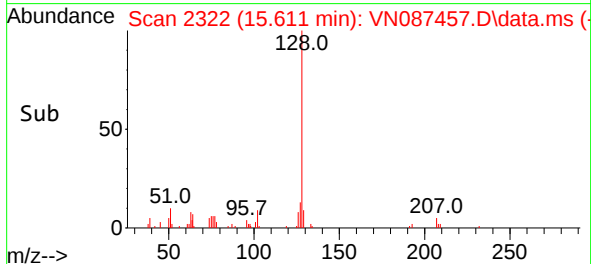
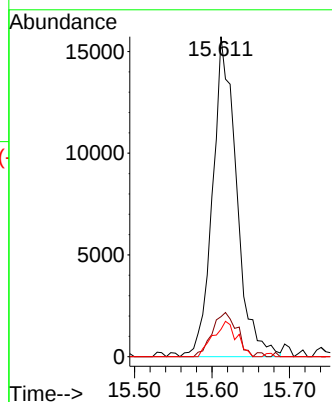
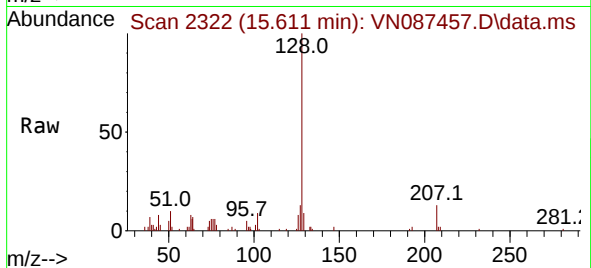
Tgt Ion:128 Resp: 33729

Ion Ratio Lower Upper

128 100

127 14.3 10.2 15.4

129 10.9 8.9 13.3



#92

1,2,3-Trichlorobenzene

Concen: 1.930 ug/l

RT: 15.811 min Scan# 2356

Delta R.T. 0.000 min

Lab File: VN087457.D

Acq: 05 Aug 2025 15:22

Tgt Ion:180 Resp: 10233

Ion Ratio Lower Upper

180 100

182 86.8 0.0 187.4

145 33.2 0.0 71.6

