

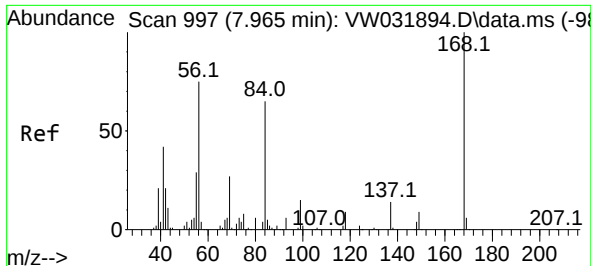
Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW072425\
 Data File : VW031925.D
 Acq On : 24 Jul 2025 14:35
 Operator : SY/MD
 Sample : Q2691-07
 Misc : 4.20g/5mL/MSVOA_W/SOIL/A
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jul 25 03:44:36 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W072225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jul 23 08:18:46 2025
 Response via : Initial Calibration

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

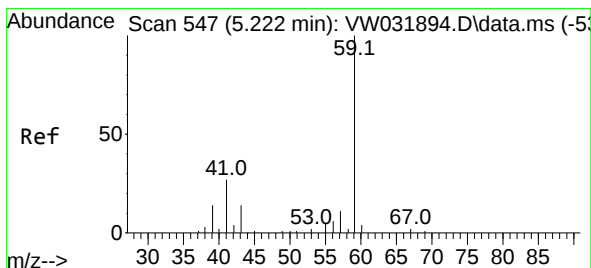
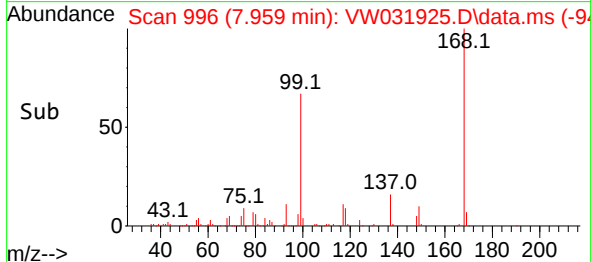
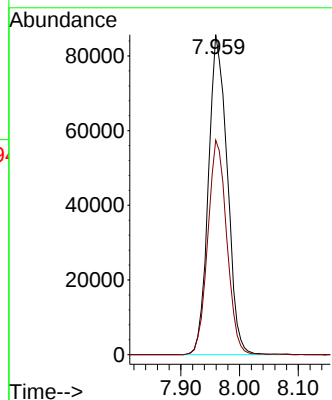
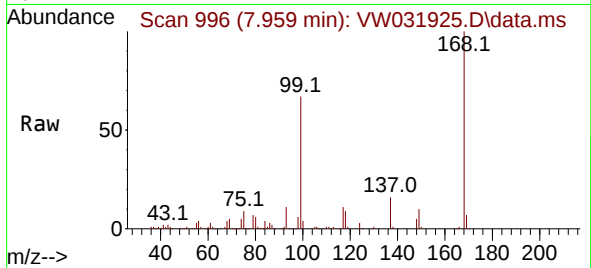
Internal Standards						
1) Pentafluorobenzene	7.959	168	190744	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	390532	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	341873	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	143175	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	151175	52.392	ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery = 104.780%			
35) Dibromofluoromethane	7.904	113	125710	47.371	ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery = 94.740%			
50) Toluene-d8	10.325	98	457100	45.512	ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery = 91.020%			
62) 4-Bromofluorobenzene	12.617	95	189739	49.200	ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery = 98.400%			
Target Compounds					Qvalue	
11) Tert butyl alcohol	5.228	59	10179	60.014	ug/l #	93
13) Acrolein	3.942	56	296	Below Cal	#	14
16) Acetone	4.173	43	8953	13.076	ug/l	97
18) Methyl Acetate	4.789	43	5615	2.977	ug/l #	49
20) Methylene Chloride	4.960	84	7909	Below Cal		96
25) 2-Butanone	7.203	43	1427	1.523	ug/l	97
31) Cyclohexane	7.965	56	10431	2.357	ug/l #	41
36) 1,1-Dichloropropene	7.959	75	16985	4.168	ug/l #	49
38) Carbon Tetrachloride	7.959	117	21669	5.540	ug/l #	17
39) Methylcyclohexane	9.337	83	8525	1.662	ug/l	90
51) 4-Methyl-2-Pentanone	10.215	43	108813	47.242	ug/l	99
52) Toluene	10.392	92	84571	10.905	ug/l	97
55) 1,1,2-Trichloroethane	10.770	97	4892	2.045	ug/l #	28
59) 2-Hexanone	10.971	43	7031	4.392	ug/l	96
67) Ethyl Benzene	11.733	91	164955	11.221	ug/l	99
68) m/p-Xylenes	11.837	106	271298	49.021	ug/l	98
69) o-Xylene	12.166	106	145834	27.844	ug/l	97
70) Styrene	12.166	104	9164	1.028	ug/l #	1
73) Isopropylbenzene	12.465	105	22174	1.785	ug/l	95
74) N-amyl acetate	12.245	43	11325	3.372	ug/l #	51
76) 1,2,3-Trichloropropane	12.861	75	2855	1.444	ug/l #	100
78) n-propylbenzene	12.806	91	98442	6.452	ug/l	98
79) 2-Chlorotoluene	12.867	91	40026	4.394	ug/l #	44
80) 1,3,5-Trimethylbenzene	12.940	105	189461	18.184	ug/l	98
81) trans-1,4-Dichloro-2-b...	12.617	75	81231	94.873	ug/l #	15
82) 4-Chlorotoluene	12.940	91	20680	2.164	ug/l #	44
83) tert-Butylbenzene	13.245	119	94516	10.650	ug/l #	67
84) 1,2,4-Trimethylbenzene	13.245	105	839773	79.633	ug/l	100
85) sec-Butylbenzene	13.245	105	839773	63.010	ug/l #	59
86) p-Isopropyltoluene	13.495	119	19051	1.729	ug/l	94
89) n-Butylbenzene	13.818	91	39921	3.694	ug/l #	75
90) Hexachloroethane	14.092	117	24062	12.632	ug/l #	23
95) Naphthalene	15.360	128	411433	55.962	ug/l	99

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



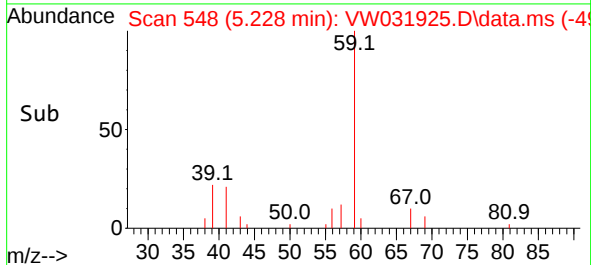
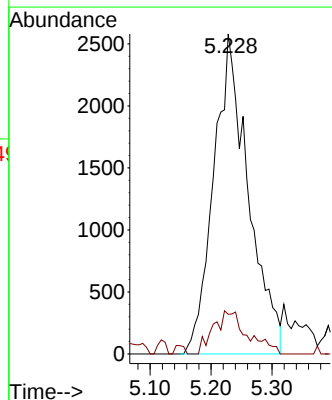
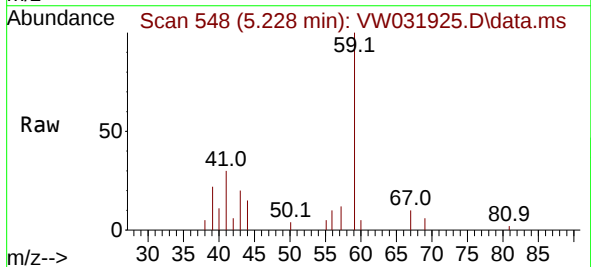
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.959 min Scan# 996
Delta R.T. -0.006 min
Lab File: VW031925.D
Acq: 24 Jul 2025 14:35

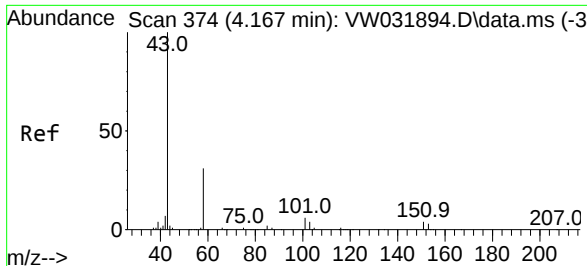
Tgt Ion:168 Resp: 190744
Ion Ratio Lower Upper
168 100
99 67.1 48.2 72.2



#11
Tert butyl alcohol
Concen: 60.014 ug/l
RT: 5.228 min Scan# 548
Delta R.T. 0.006 min
Lab File: VW031925.D
Acq: 24 Jul 2025 14:35

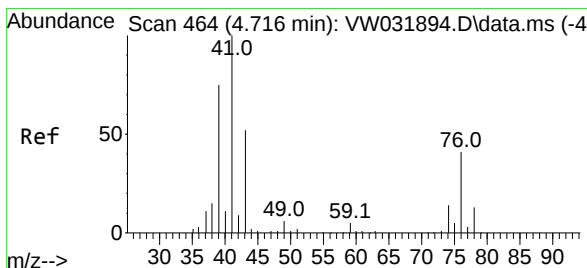
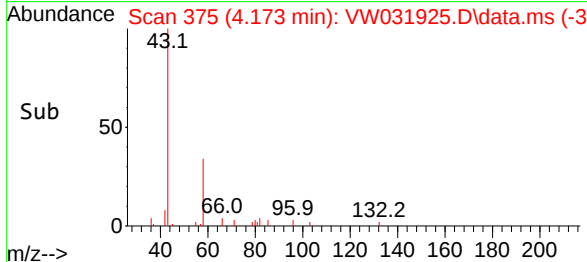
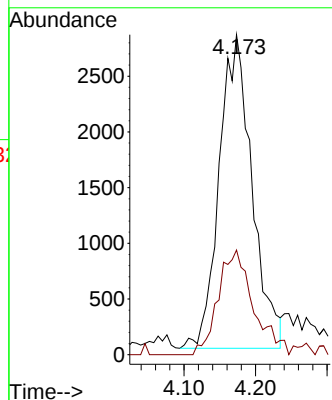
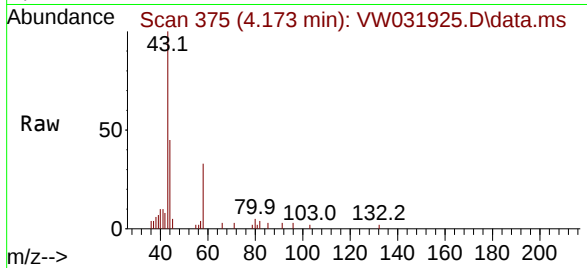
Tgt Ion: 59 Resp: 10179
Ion Ratio Lower Upper
59 100
57 13.2 8.6 12.8#





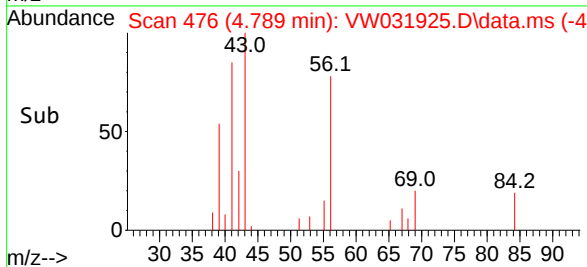
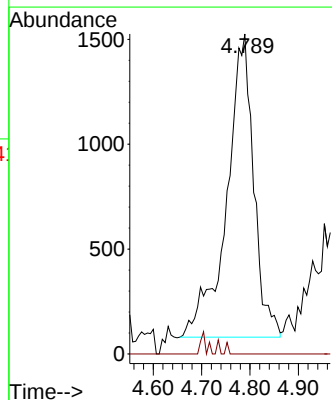
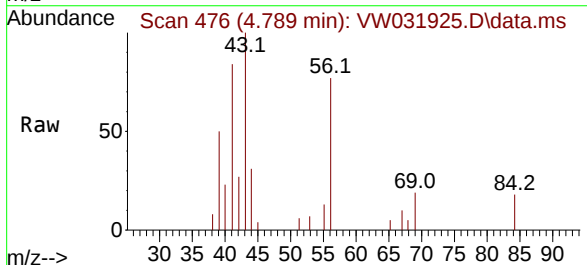
#16
Acetone
Concen: 13.076 ug/l
RT: 4.173 min Scan# 375
Delta R.T. 0.006 min
Lab File: VW031925.D
Acq: 24 Jul 2025 14:35

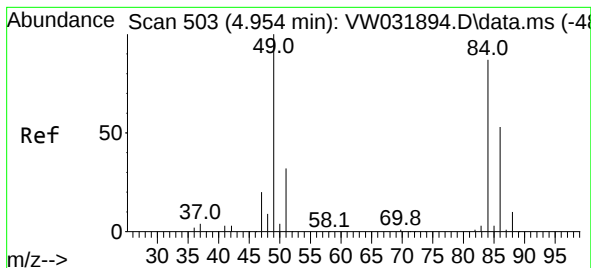
Tgt Ion: 43 Resp: 8953
Ion Ratio Lower Upper
43 100
58 33.4 25.5 38.3



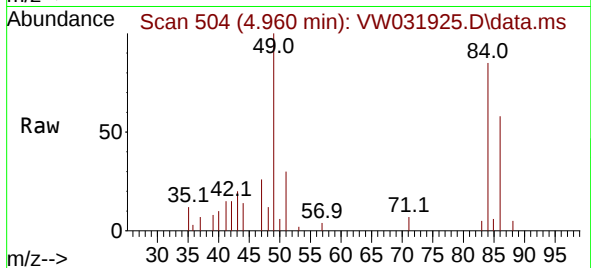
#18
Methyl Acetate
Concen: 2.977 ug/l
RT: 4.789 min Scan# 476
Delta R.T. 0.073 min
Lab File: VW031925.D
Acq: 24 Jul 2025 14:35

Tgt Ion: 43 Resp: 5615
Ion Ratio Lower Upper
43 100
74 0.0 20.6 31.0#



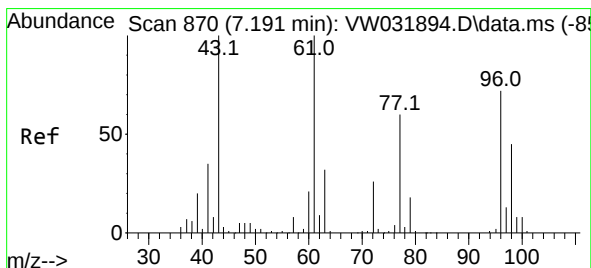
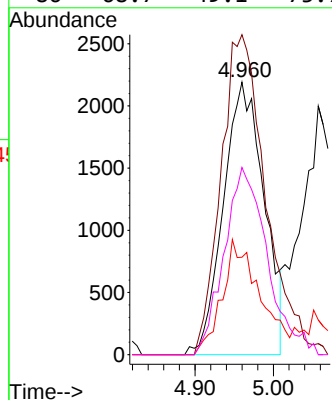
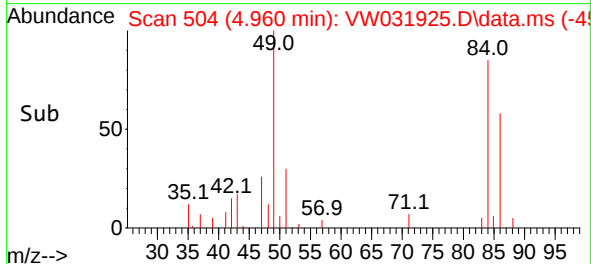


#20
Methylene Chloride
Concen: Below Cal
RT: 4.960 min Scan# 504
Delta R.T. 0.006 min
Lab File: VW031925.D
Acq: 24 Jul 2025 14:35

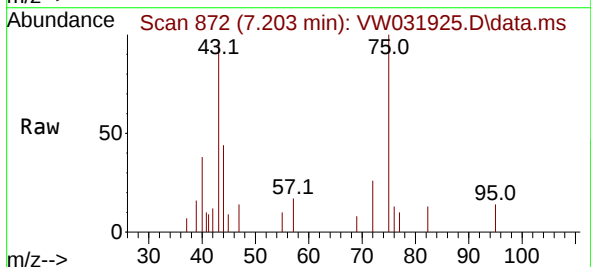


Tgt Ion: 84 Resp: 7909

Ion	Ratio	Lower	Upper
84	100		
49	117.4	91.9	137.9
51	35.8	29.0	43.6
86	68.7	49.1	73.7

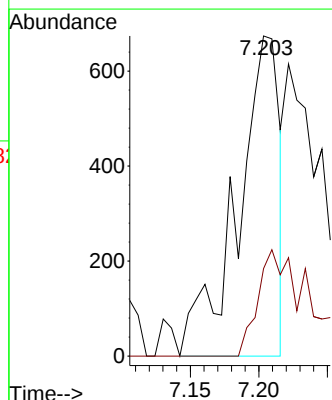
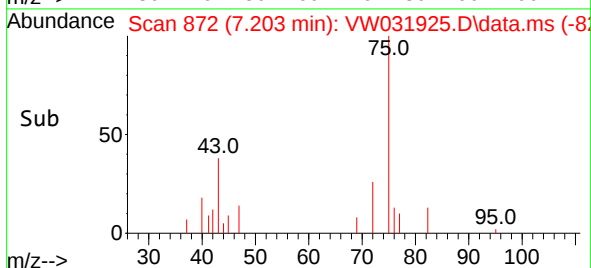


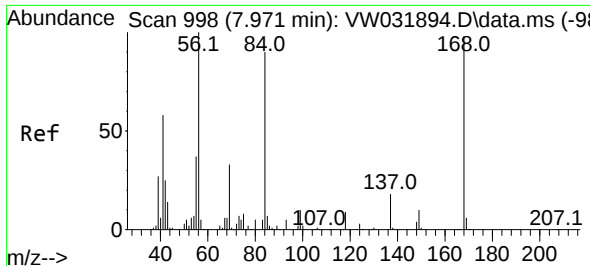
#25
2-Butanone
Concen: 1.523 ug/l
RT: 7.203 min Scan# 872
Delta R.T. 0.012 min
Lab File: VW031925.D
Acq: 24 Jul 2025 14:35



Tgt Ion: 43 Resp: 1427

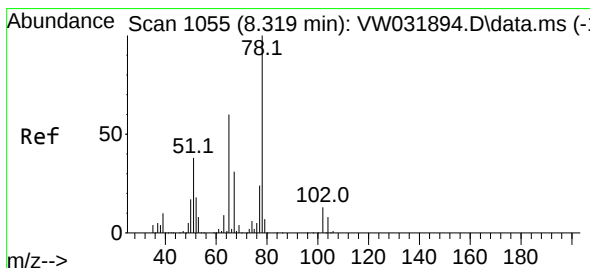
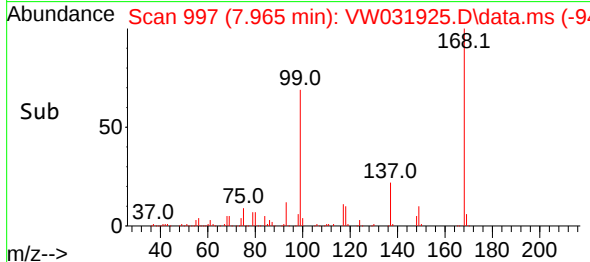
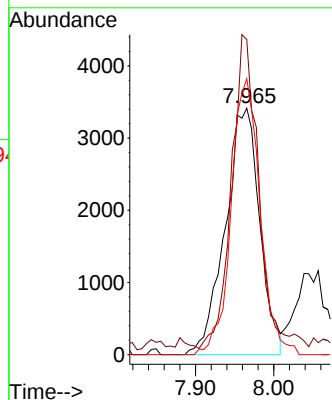
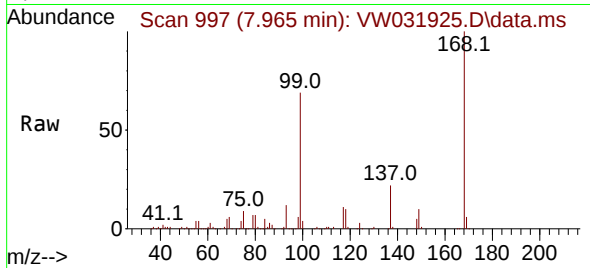
Ion	Ratio	Lower	Upper
43	100		
72	27.3	20.8	31.2





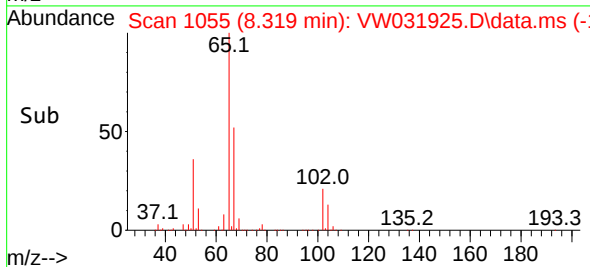
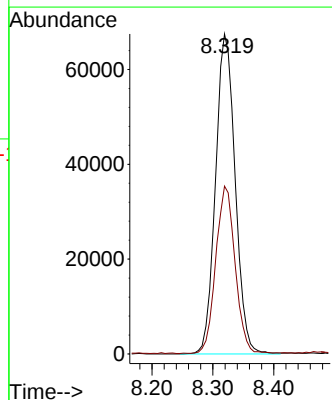
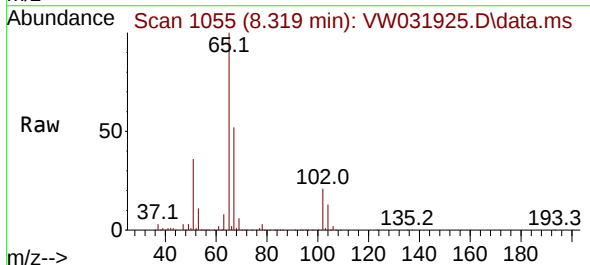
#31
Cyclohexane
Concen: 2.357 ug/l
RT: 7.965 min Scan# 997
Delta R.T. -0.006 min
Lab File: VW031925.D
Acq: 24 Jul 2025 14:35

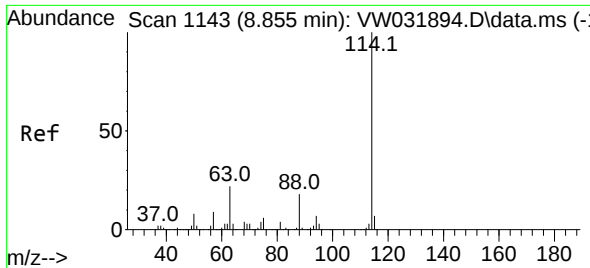
Tgt Ion: 56 Resp: 10431
Ion Ratio Lower Upper
56 100
69 121.0 26.7 40.1#
84 111.9 71.8 107.6#



#33
1,2-Dichloroethane-d4
Concen: 52.392 ug/l
RT: 8.319 min Scan# 1055
Delta R.T. 0.000 min
Lab File: VW031925.D
Acq: 24 Jul 2025 14:35

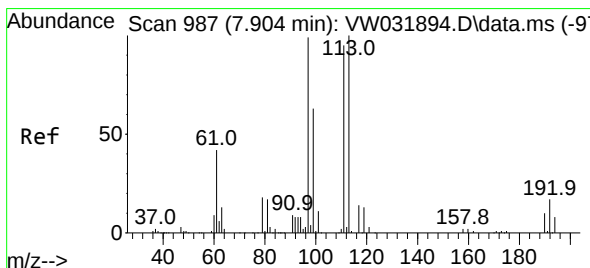
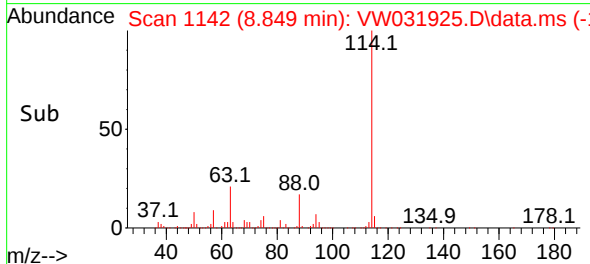
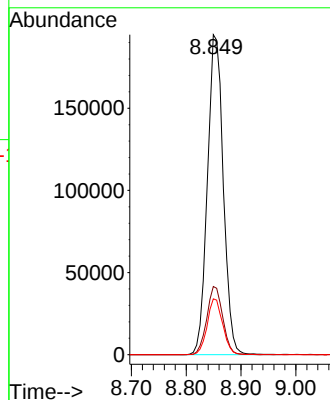
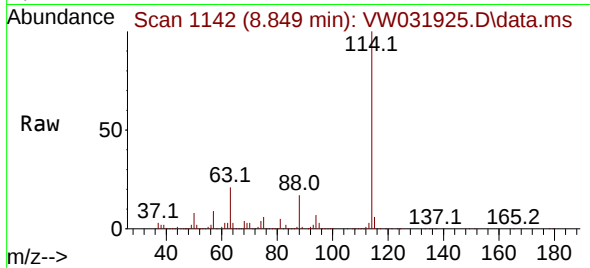
Tgt Ion: 65 Resp: 151175
Ion Ratio Lower Upper
65 100
67 51.3 0.0 101.4





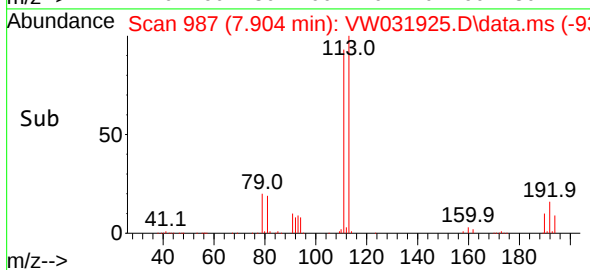
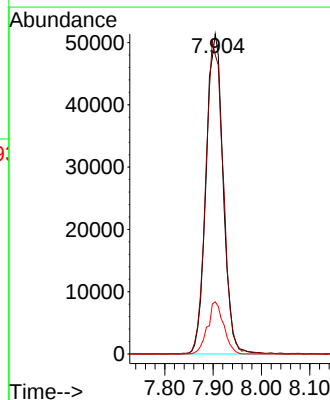
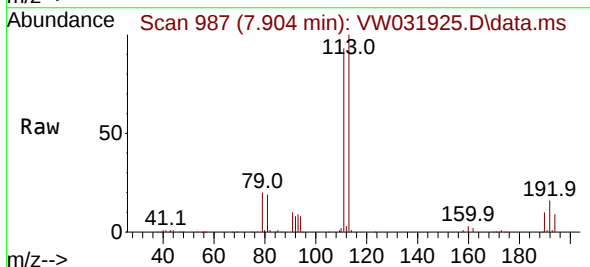
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.849 min Scan# 1142
Delta R.T. -0.006 min
Lab File: VW031925.D
Acq: 24 Jul 2025 14:35

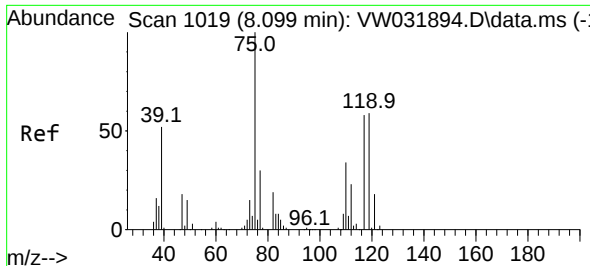
Tgt Ion:	114	Resp:	390532
Ion	Ratio	Lower	Upper
114	100		
63	21.3	0.0	44.2
88	17.4	0.0	35.6



#35
Dibromofluoromethane
Concen: 47.371 ug/l
RT: 7.904 min Scan# 987
Delta R.T. 0.000 min
Lab File: VW031925.D
Acq: 24 Jul 2025 14:35

Tgt Ion:	113	Resp:	125710
Ion	Ratio	Lower	Upper
113	100		
111	100.4	79.9	119.9
192	15.4	12.6	19.0





#36

1,1-Dichloropropene

Concen: 4.168 ug/l

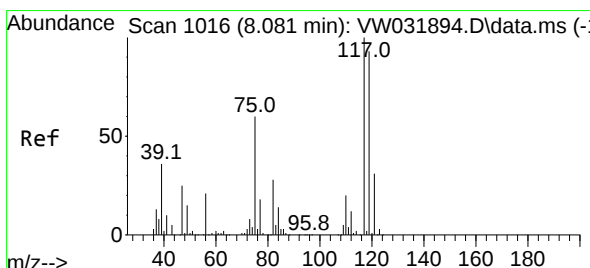
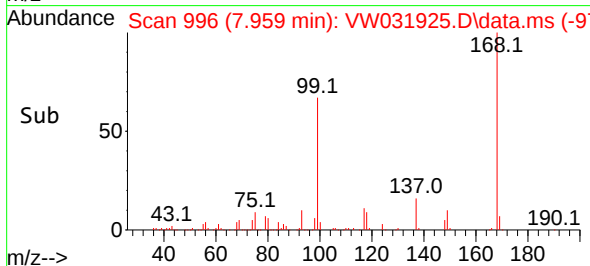
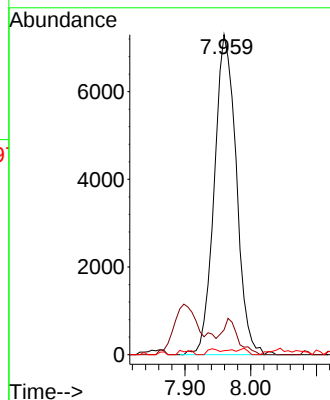
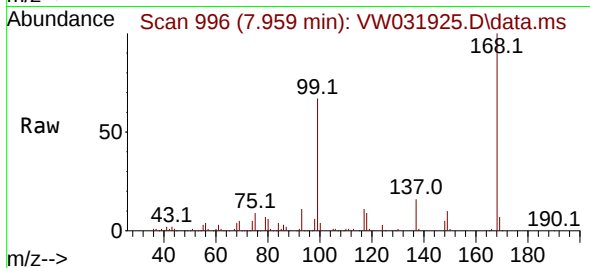
RT: 7.959 min Scan# 996

Delta R.T. -0.140 min

Lab File: VW031925.D

Acq: 24 Jul 2025 14:35

Tgt Ion: 75	Resp: 16985
Ion Ratio	Lower Upper
75	100
110	8.2 17.0 50.9#
77	0.0 25.1 37.7#



#38

Carbon Tetrachloride

Concen: 5.540 ug/l

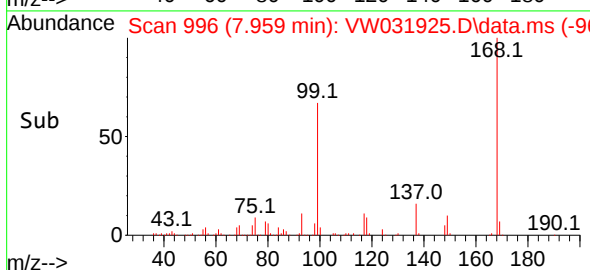
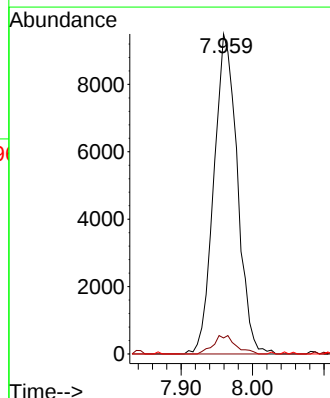
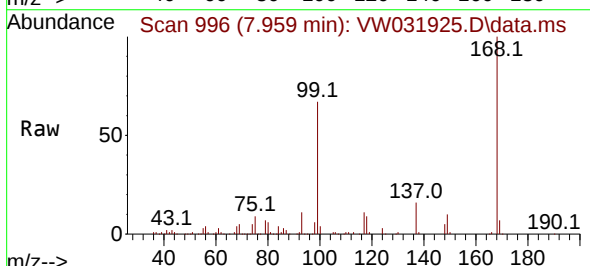
RT: 7.959 min Scan# 996

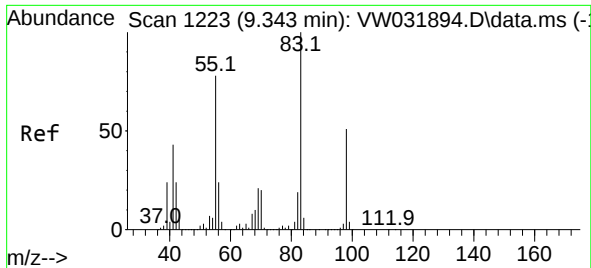
Delta R.T. -0.122 min

Lab File: VW031925.D

Acq: 24 Jul 2025 14:35

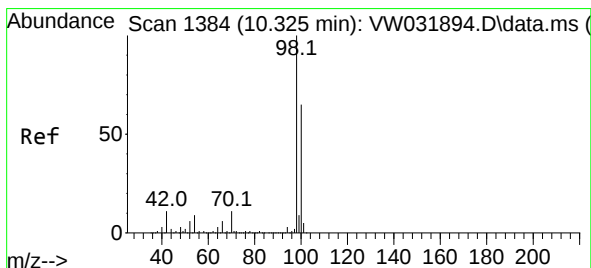
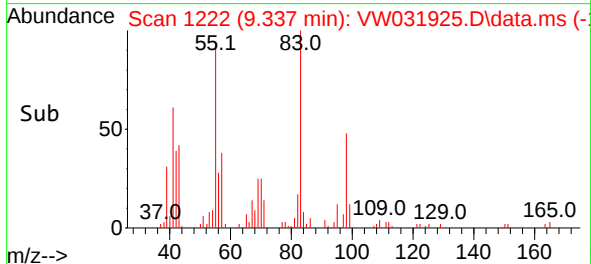
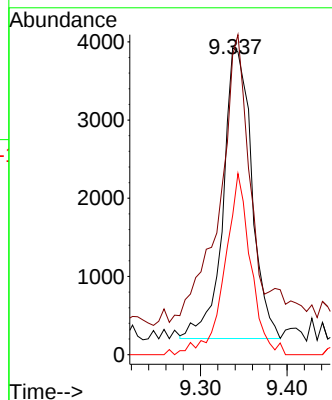
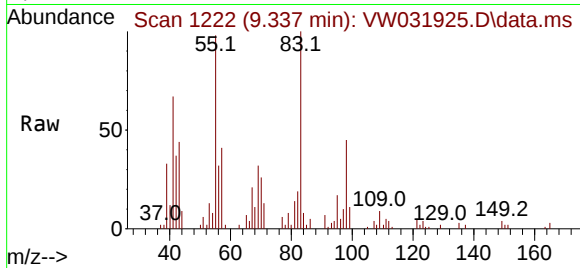
Tgt Ion: 117	Resp: 21669
Ion Ratio	Lower Upper
117	100
119	5.0 74.3 111.5#
121	0.0 24.6 37.0#





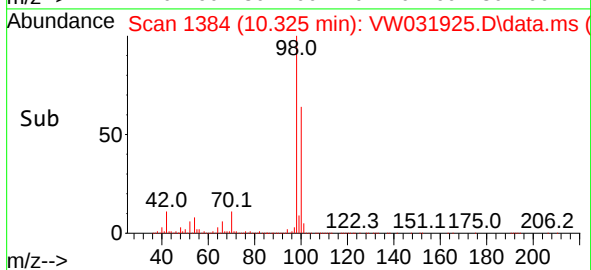
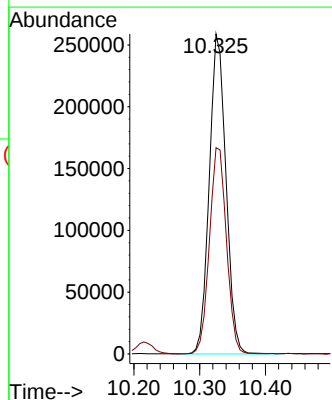
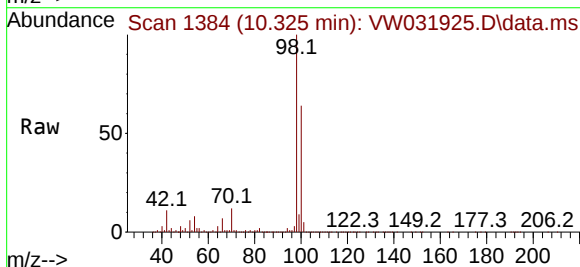
#39
Methylcyclohexane
Concen: 1.662 ug/l
RT: 9.337 min Scan# 1222
Delta R.T. -0.006 min
Lab File: VW031925.D
Acq: 24 Jul 2025 14:35

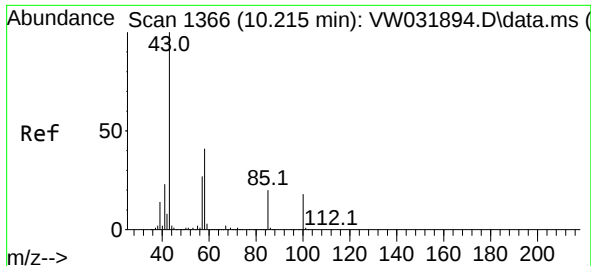
Tgt Ion: 83	Resp: 8525
Ion Ratio	Lower Upper
83	100
55	89.7 62.5 93.7
98	46.5 40.6 61.0



#50
Toluene-d8
Concen: 45.512 ug/l
RT: 10.325 min Scan# 1384
Delta R.T. 0.000 min
Lab File: VW031925.D
Acq: 24 Jul 2025 14:35

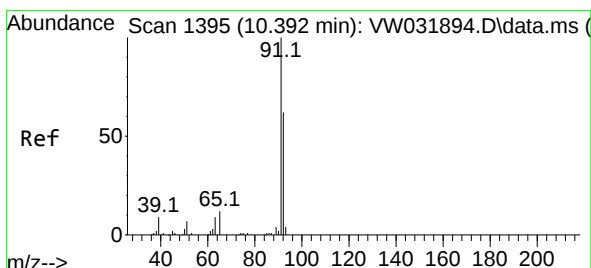
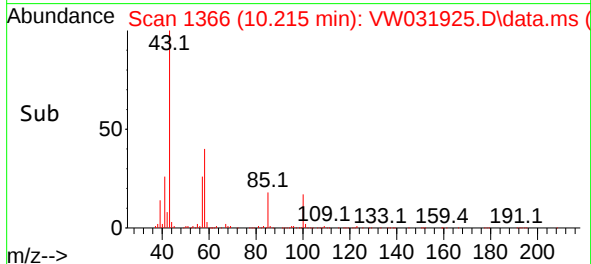
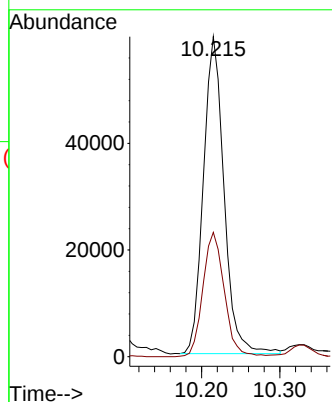
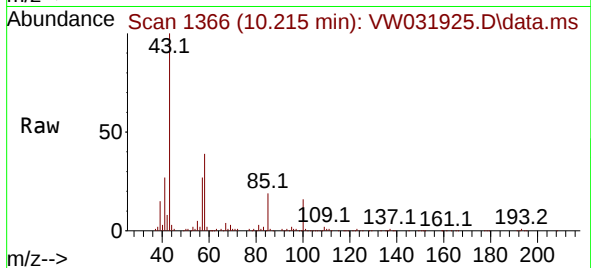
Tgt Ion: 98	Resp: 457100
Ion Ratio	Lower Upper
98	100
100	65.8 51.7 77.5





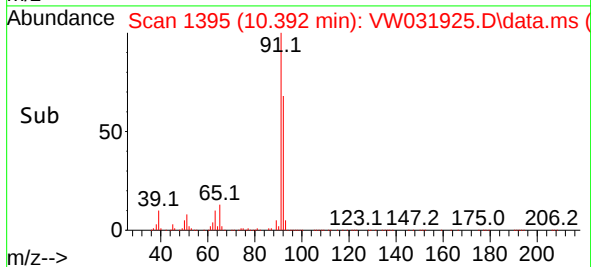
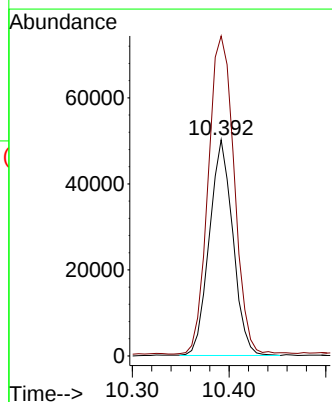
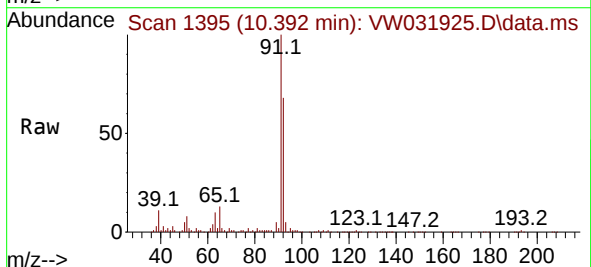
#51
4-Methyl-2-Pentanone
Concen: 47.242 ug/l
RT: 10.215 min Scan# 1366
Delta R.T. 0.000 min
Lab File: VW031925.D
Acq: 24 Jul 2025 14:35

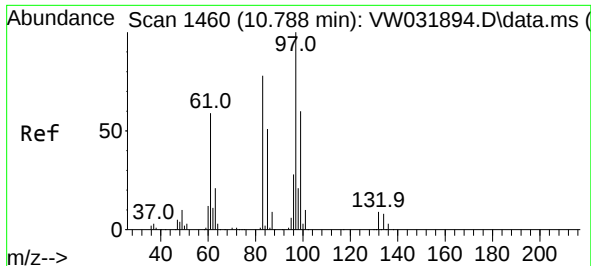
Tgt Ion: 43 Resp: 108813
Ion Ratio Lower Upper
43 100
58 40.5 32.8 49.2



#52
Toluene
Concen: 10.905 ug/l
RT: 10.392 min Scan# 1395
Delta R.T. 0.000 min
Lab File: VW031925.D
Acq: 24 Jul 2025 14:35

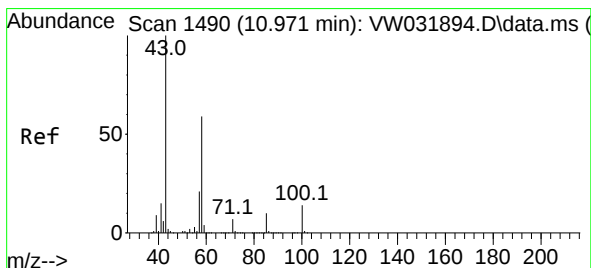
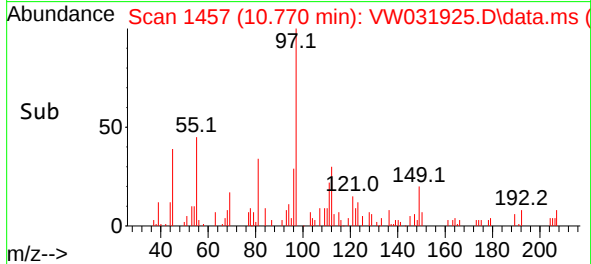
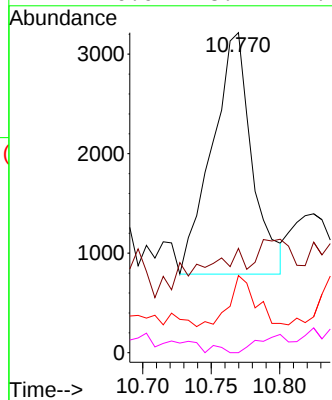
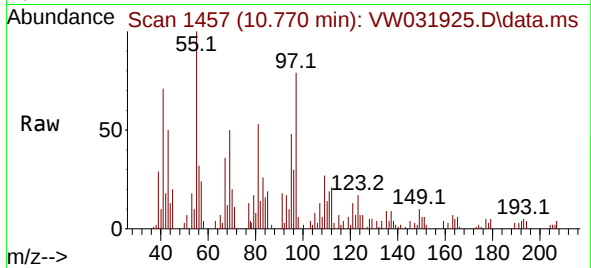
Tgt Ion: 92 Resp: 84571
Ion Ratio Lower Upper
92 100
91 162.7 133.7 200.5





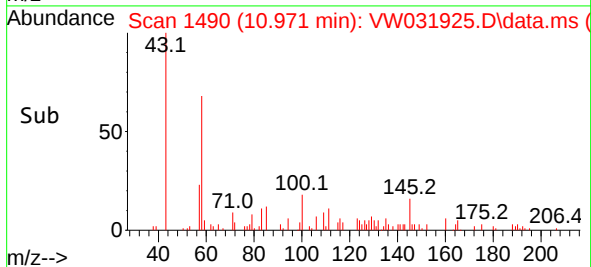
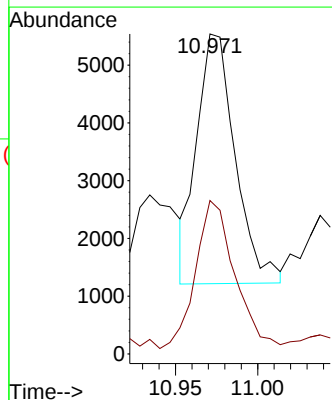
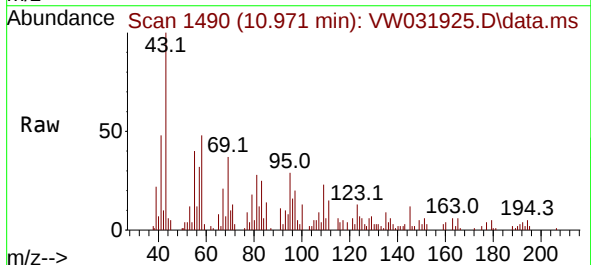
#55
1,1,2-Trichloroethane
Concen: 2.045 ug/l
RT: 10.770 min Scan# 1457
Delta R.T. -0.018 min
Lab File: VW031925.D
Acq: 24 Jul 2025 14:35

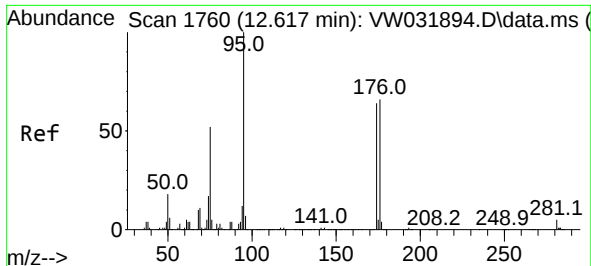
Tgt Ion: 97	Resp: 4892
Ion Ratio	Lower Upper
97 100	
83 5.9	62.4 93.6#
85 19.8	41.0 61.6#
99 0.0	48.1 72.1#



#59
2-Hexanone
Concen: 4.392 ug/l
RT: 10.971 min Scan# 1490
Delta R.T. 0.000 min
Lab File: VW031925.D
Acq: 24 Jul 2025 14:35

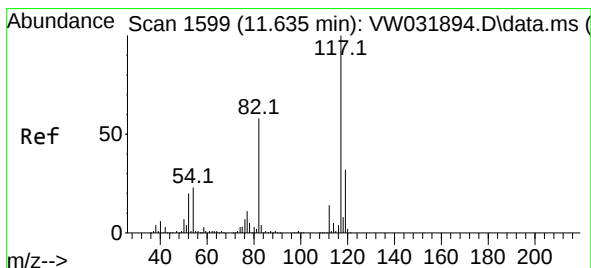
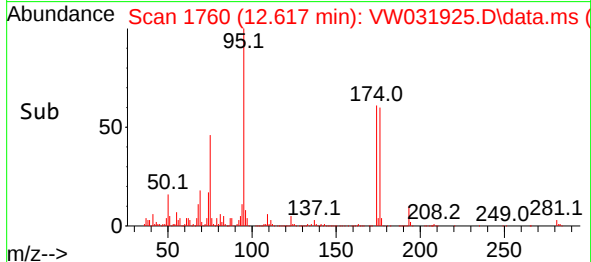
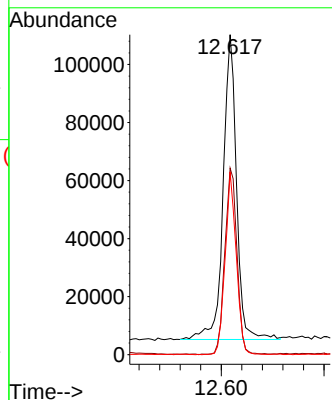
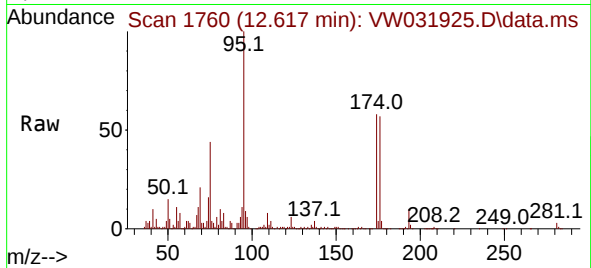
Tgt Ion: 43	Resp: 7031
Ion Ratio	Lower Upper
43 100	
58 60.4	28.5 85.6





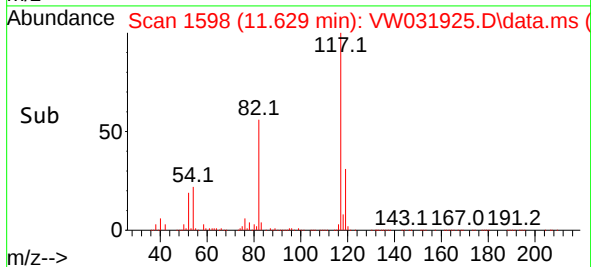
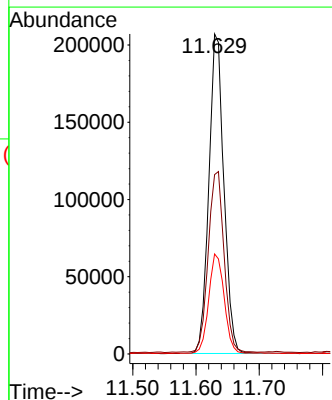
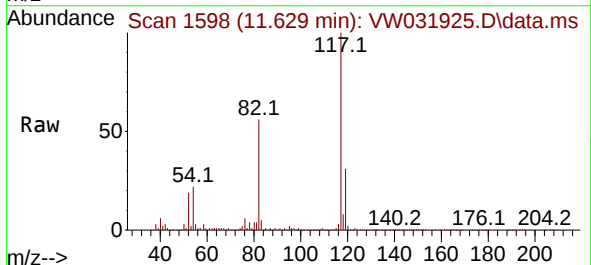
#62
4-Bromofluorobenzene
Concen: 49.200 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. 0.000 min
Lab File: VW031925.D
Acq: 24 Jul 2025 14:35

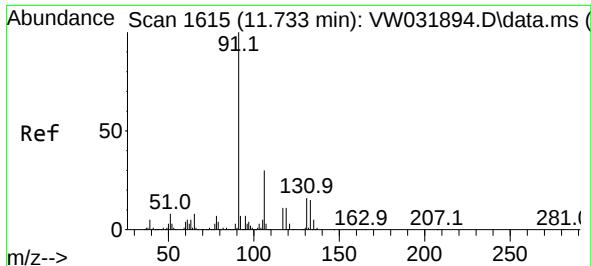
Tgt Ion: 95 Resp: 189739
Ion Ratio Lower Upper
95 100
174 55.7 0.0 129.8
176 50.0 0.0 130.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 1598
Delta R.T. -0.006 min
Lab File: VW031925.D
Acq: 24 Jul 2025 14:35

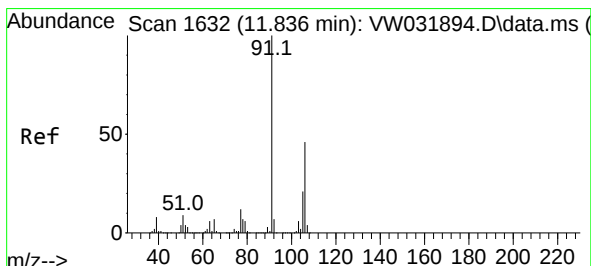
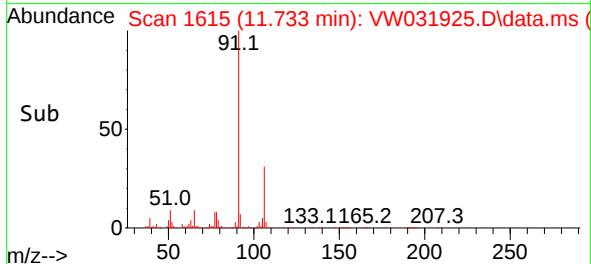
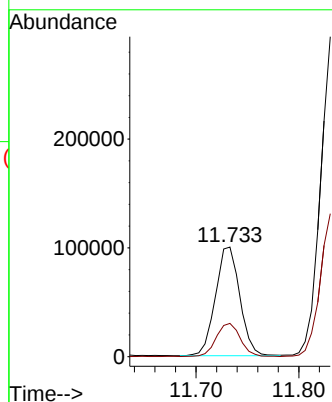
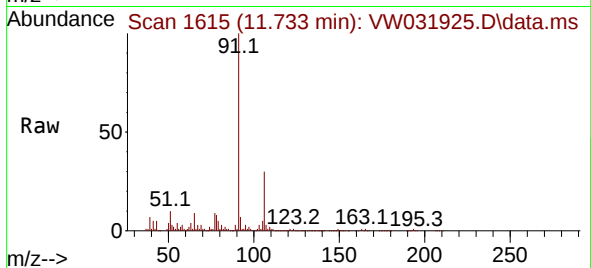
Tgt Ion: 117 Resp: 341873
Ion Ratio Lower Upper
117 100
82 55.5 46.5 69.7
119 31.1 25.8 38.6





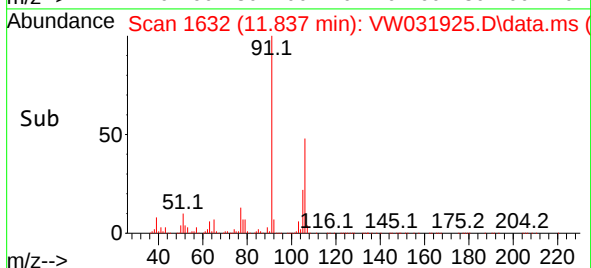
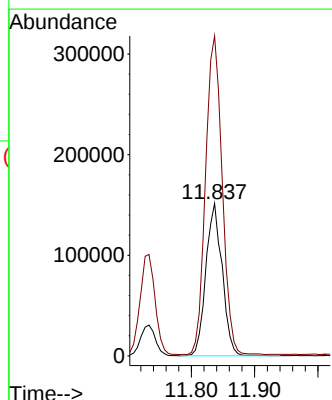
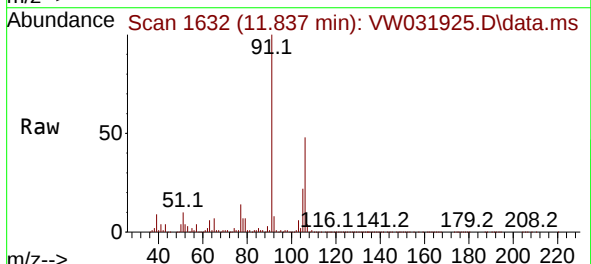
#67
Ethyl Benzene
Concen: 11.221 ug/l
RT: 11.733 min Scan# 1615
Delta R.T. 0.000 min
Lab File: VW031925.D
Acq: 24 Jul 2025 14:35

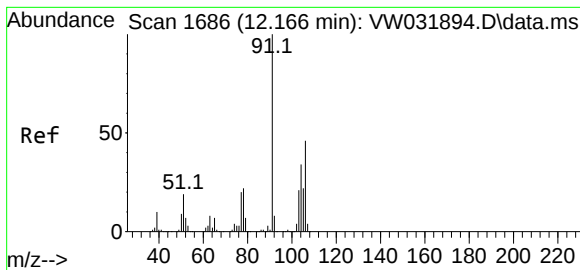
Tgt Ion: 91 Resp: 164955
Ion Ratio Lower Upper
91 100
106 30.4 23.8 35.6



#68
m/p-Xylenes
Concen: 49.021 ug/l
RT: 11.837 min Scan# 1632
Delta R.T. 0.000 min
Lab File: VW031925.D
Acq: 24 Jul 2025 14:35

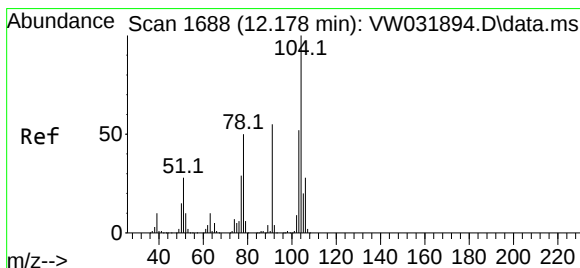
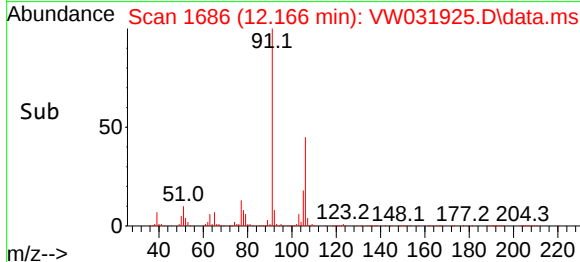
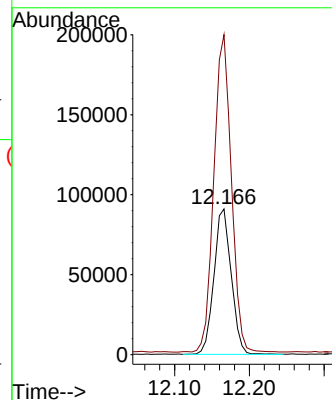
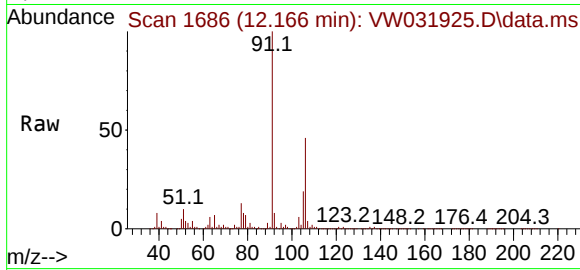
Tgt Ion: 106 Resp: 271298
Ion Ratio Lower Upper
106 100
91 213.4 167.7 251.5





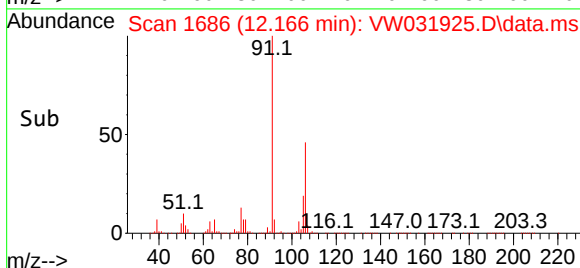
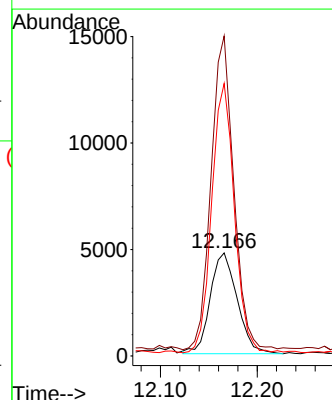
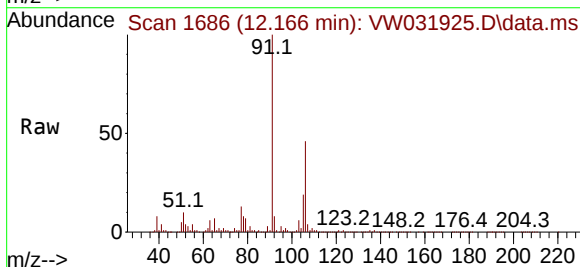
#69
o-Xylene
Concen: 27.844 ug/l
RT: 12.166 min Scan# 1686
Delta R.T. 0.000 min
Lab File: VW031925.D
Acq: 24 Jul 2025 14:35

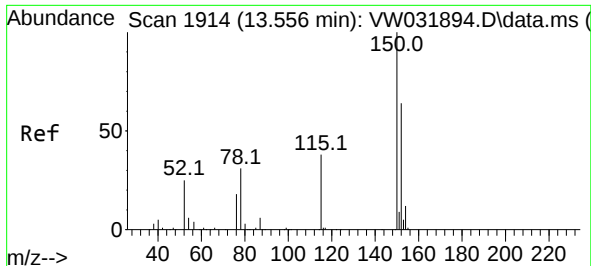
Tgt Ion:106 Resp: 145834
Ion Ratio Lower Upper
106 100
91 220.9 108.2 324.6



#70
Styrene
Concen: 1.028 ug/l
RT: 12.166 min Scan# 1686
Delta R.T. -0.012 min
Lab File: VW031925.D
Acq: 24 Jul 2025 14:35

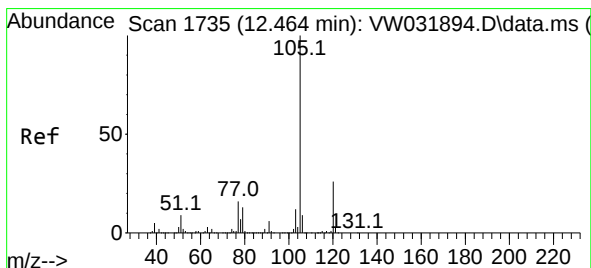
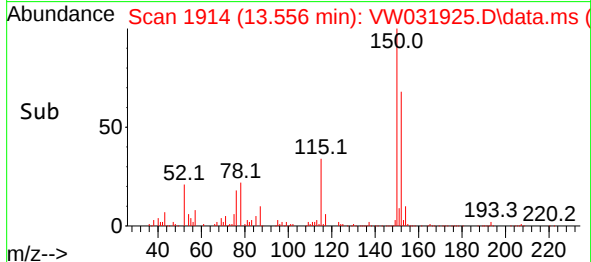
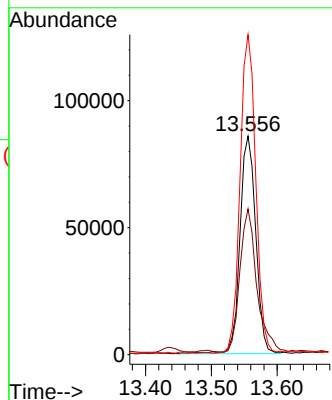
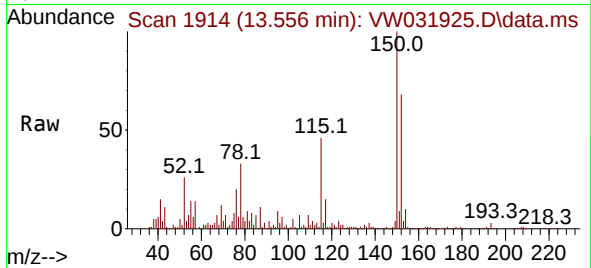
Tgt Ion:104 Resp: 9164
Ion Ratio Lower Upper
104 100
78 262.5 42.2 63.4#
103 226.3 42.8 64.2#





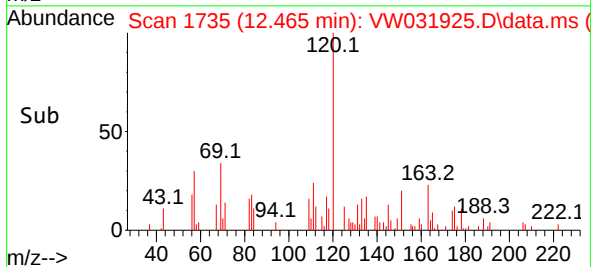
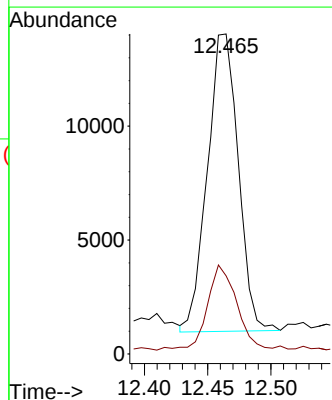
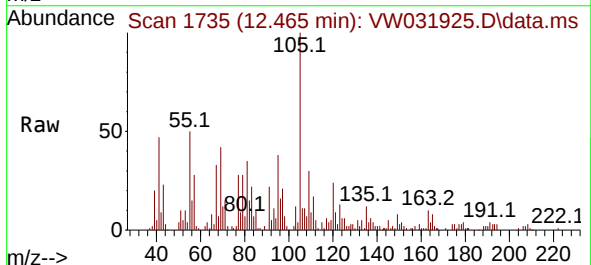
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.556 min Scan# 1914
Delta R.T. 0.000 min
Lab File: VW031925.D
Acq: 24 Jul 2025 14:35

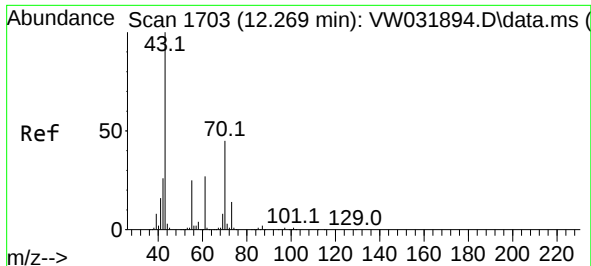
Tgt Ion:152 Resp: 143175
Ion Ratio Lower Upper
152 100
115 70.8 33.4 100.1
150 145.3 0.0 352.2



#73
Isopropylbenzene
Concen: 1.785 ug/l
RT: 12.465 min Scan# 1735
Delta R.T. 0.000 min
Lab File: VW031925.D
Acq: 24 Jul 2025 14:35

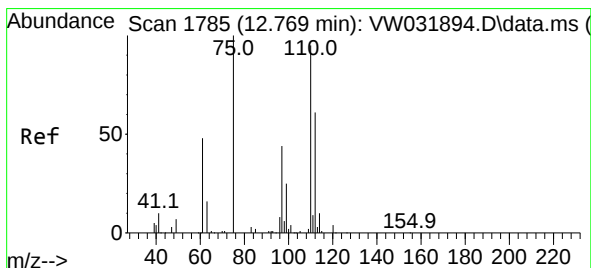
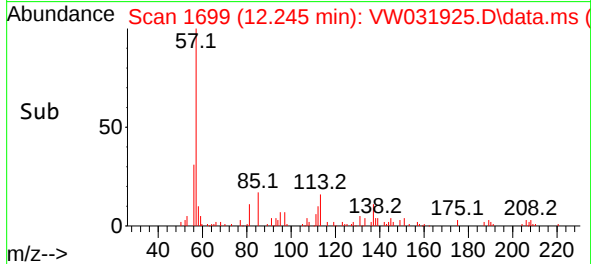
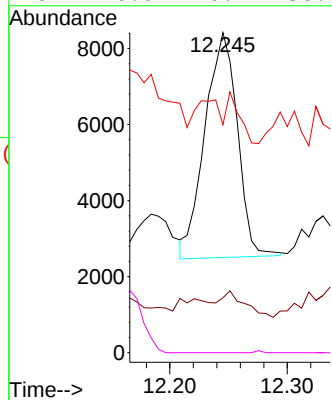
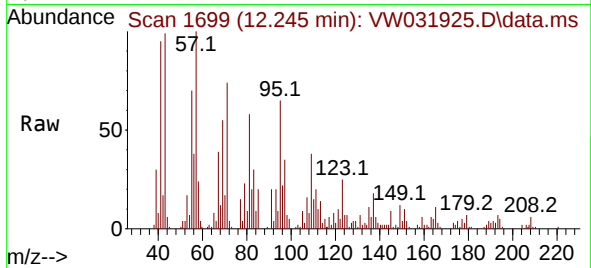
Tgt Ion:105 Resp: 22174
Ion Ratio Lower Upper
105 100
120 27.8 12.6 37.8





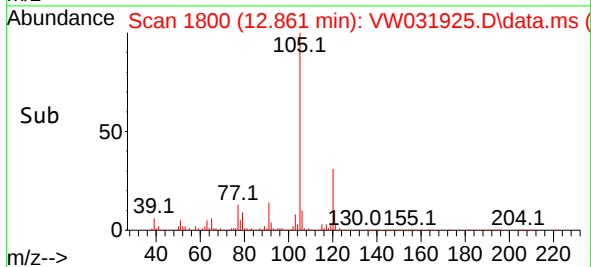
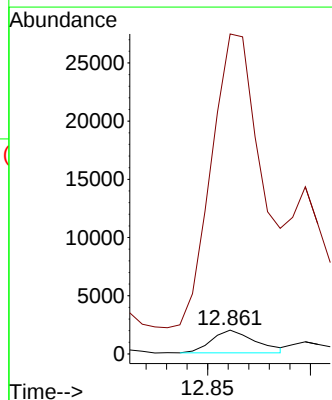
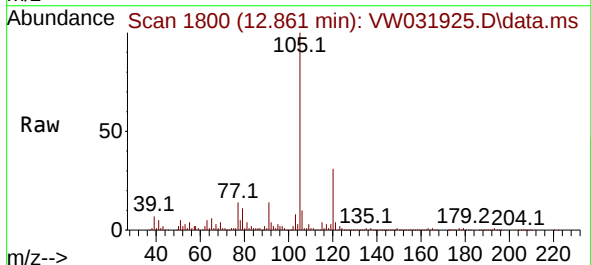
#74
N-amy1 acetate
Concen: 3.372 ug/l
RT: 12.245 min Scan# 1699
Delta R.T. -0.024 min
Lab File: VW031925.D
Acq: 24 Jul 2025 14:35

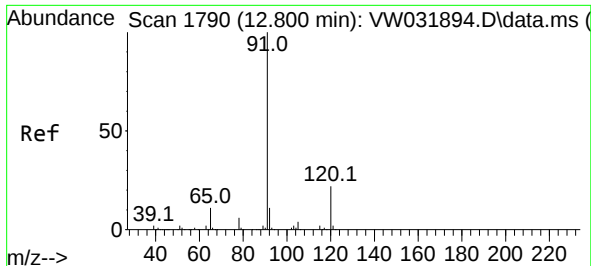
Tgt Ion: 43	Resp: 11325
Ion Ratio	Lower Upper
43 100	
70 8.2	36.6 55.0#
55 8.5	20.7 31.1#
61 0.0	20.4 30.6#



#76
1,2,3-Trichloropropane
Concen: 1.444 ug/l
RT: 12.861 min Scan# 1800
Delta R.T. 0.092 min
Lab File: VW031925.D
Acq: 24 Jul 2025 14:35

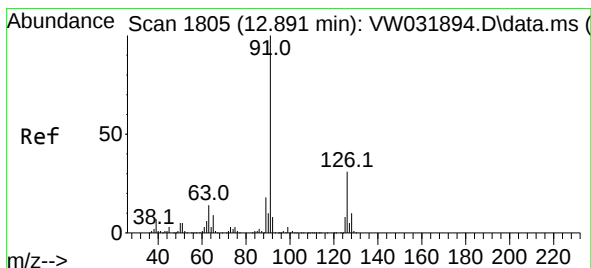
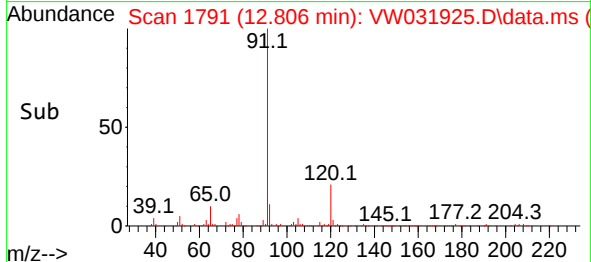
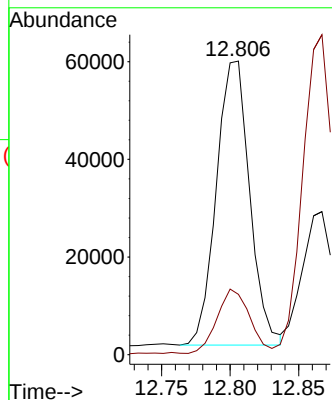
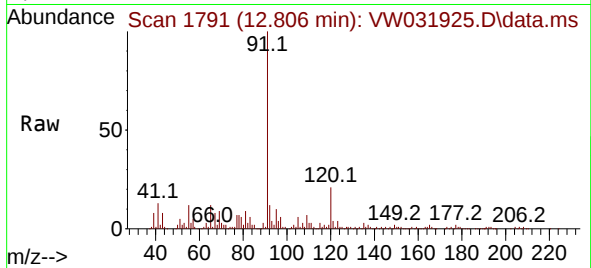
Tgt Ion: 75	Resp: 2855		
Ion	Ratio	Lower	Upper
75	100		
77	1495.8	0.0	0.0#





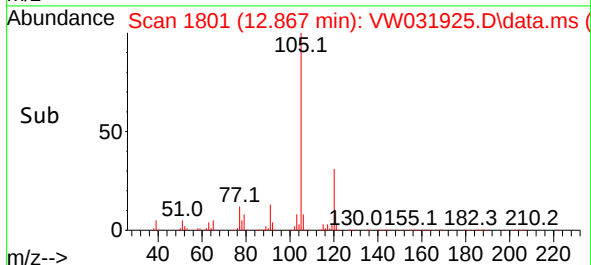
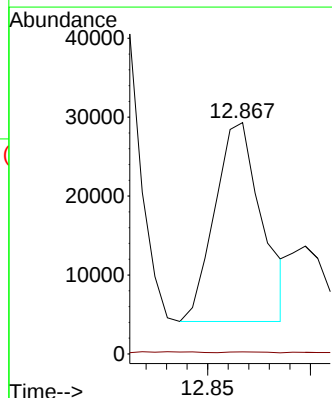
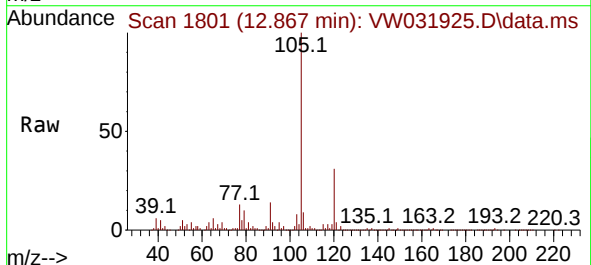
#78
n-propylbenzene
Concen: 6.452 ug/l
RT: 12.806 min Scan# 1791
Delta R.T. 0.006 min
Lab File: VW031925.D
Acq: 24 Jul 2025 14:35

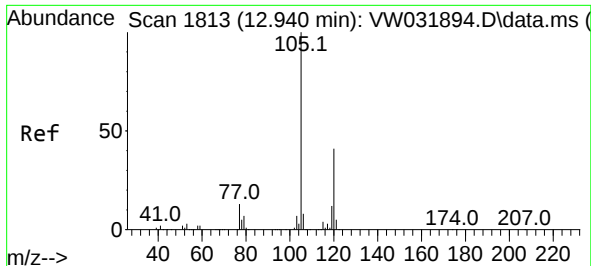
Tgt Ion: 91 Resp: 98442
Ion Ratio Lower Upper
91 100
120 22.6 10.9 32.6



#79
2-Chlorotoluene
Concen: 4.394 ug/l
RT: 12.867 min Scan# 1801
Delta R.T. -0.024 min
Lab File: VW031925.D
Acq: 24 Jul 2025 14:35

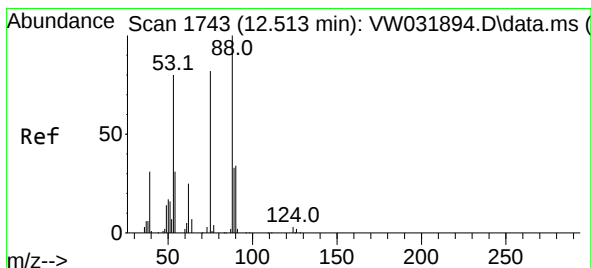
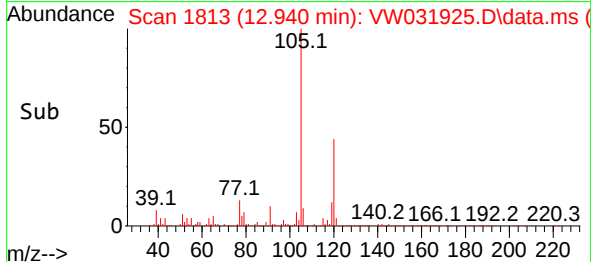
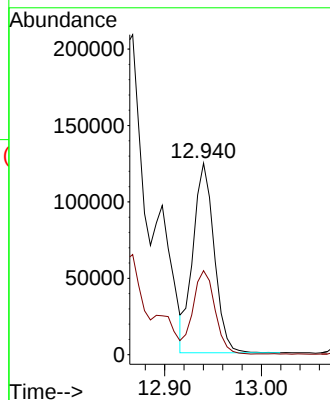
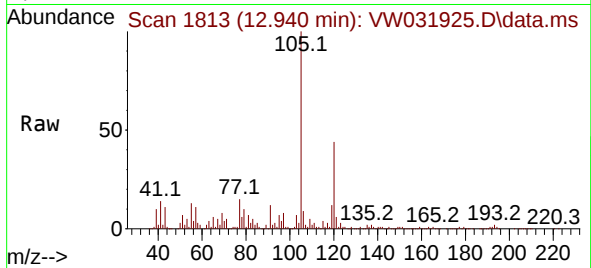
Tgt Ion: 91 Resp: 40026
Ion Ratio Lower Upper
91 100
126 0.4 15.6 46.8#





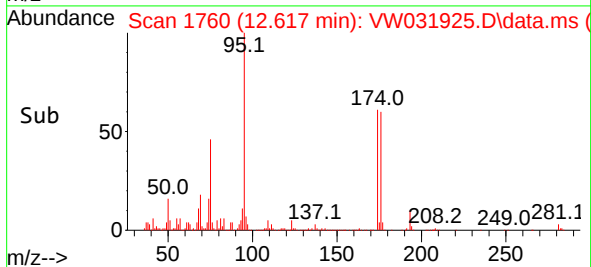
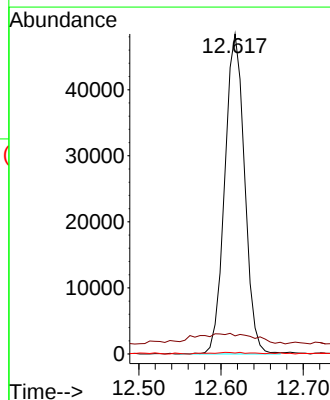
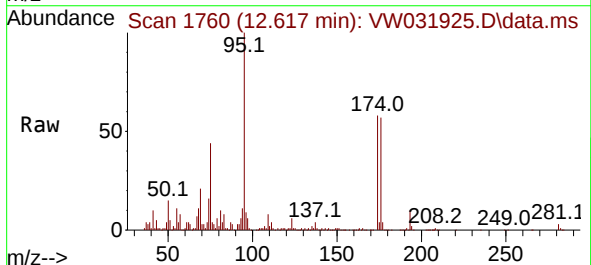
#80
1,3,5-Trimethylbenzene
Concen: 18.184 ug/l
RT: 12.940 min Scan# 1813
Delta R.T. 0.000 min
Lab File: VW031925.D
Acq: 24 Jul 2025 14:35

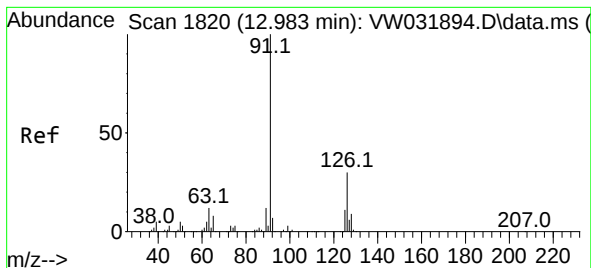
Tgt Ion:105 Resp: 189461
Ion Ratio Lower Upper
105 100
120 45.5 23.5 70.5



#81
trans-1,4-Dichloro-2-butene
Concen: 94.873 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. 0.104 min
Lab File: VW031925.D
Acq: 24 Jul 2025 14:35

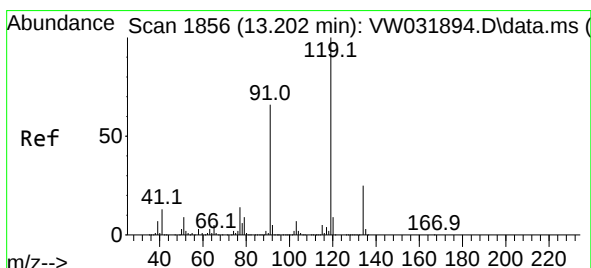
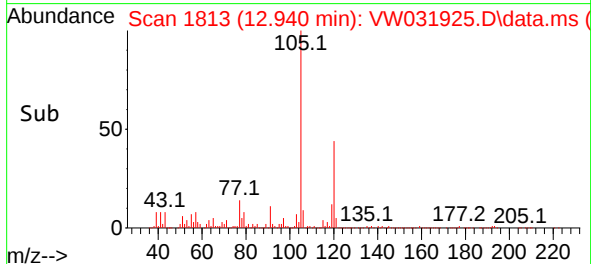
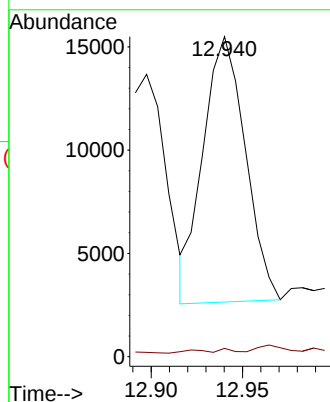
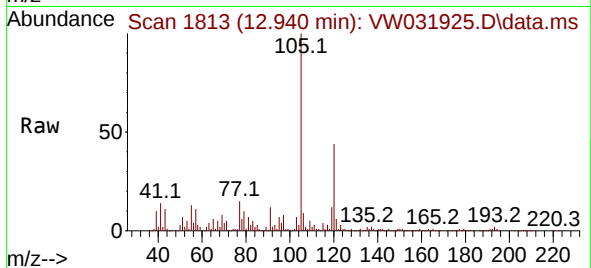
Tgt Ion: 75 Resp: 81231
Ion Ratio Lower Upper
75 100
53 9.9 83.7 125.5#
89 0.5 39.0 58.6#





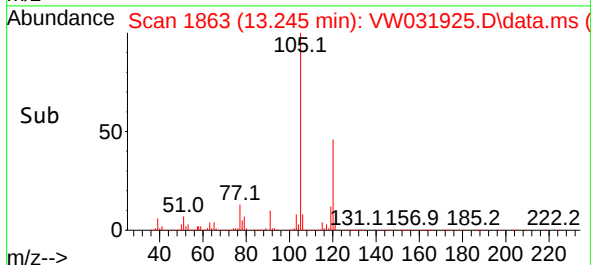
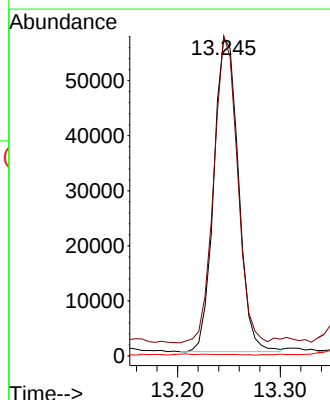
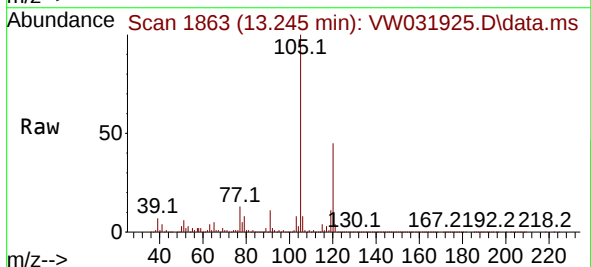
#82
4-Chlorotoluene
Concen: 2.164 ug/l
RT: 12.940 min Scan# 1813
Delta R.T. -0.043 min
Lab File: VW031925.D
Acq: 24 Jul 2025 14:35

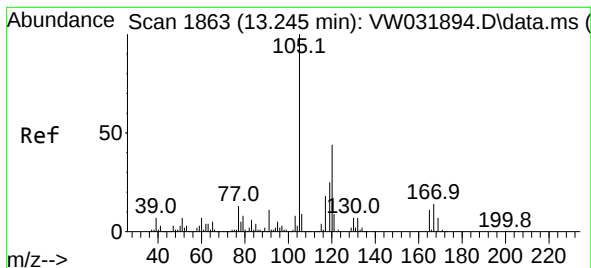
Tgt Ion: 91 Resp: 20680
Ion Ratio Lower Upper
91 100
126 0.4 15.8 47.3#



#83
tert-Butylbenzene
Concen: 10.650 ug/l
RT: 13.245 min Scan# 1863
Delta R.T. 0.043 min
Lab File: VW031925.D
Acq: 24 Jul 2025 14:35

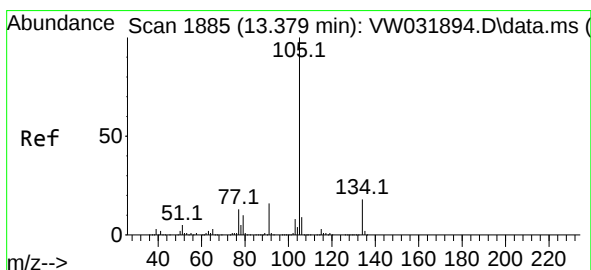
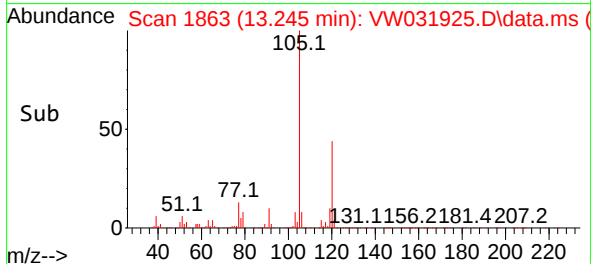
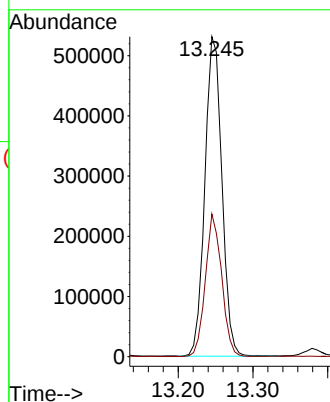
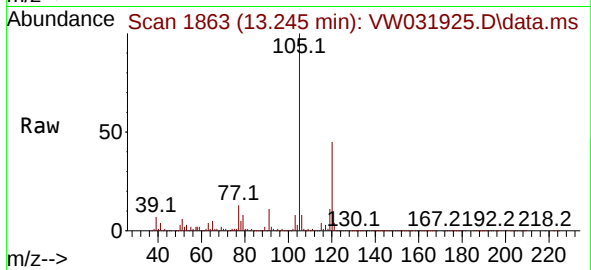
Tgt Ion: 119 Resp: 94516
Ion Ratio Lower Upper
119 100
91 94.0 35.5 106.5
134 0.0 12.4 37.0#





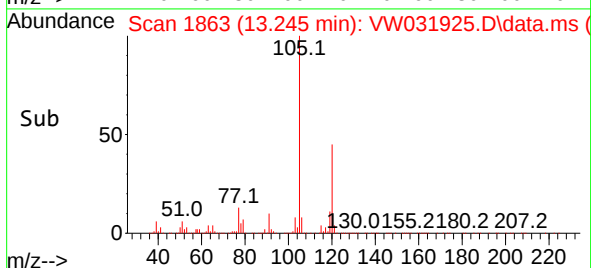
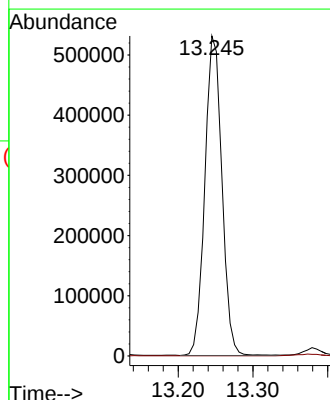
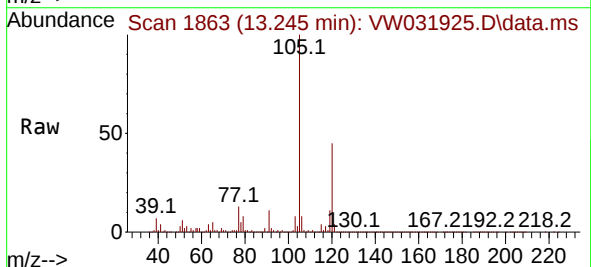
#84
1,2,4-Trimethylbenzene
Concen: 79.633 ug/l
RT: 13.245 min Scan# 1863
Delta R.T. 0.000 min
Lab File: VW031925.D
Acq: 24 Jul 2025 14:35

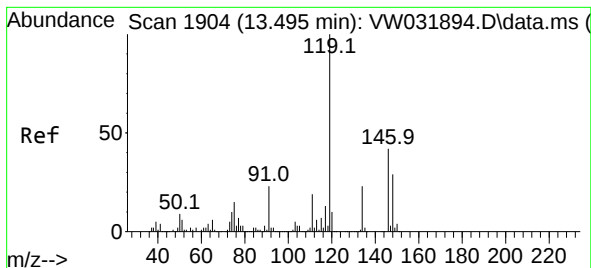
Tgt Ion:105 Resp: 839773
Ion Ratio Lower Upper
105 100
120 42.8 21.3 63.9



#85
sec-Butylbenzene
Concen: 63.010 ug/l
RT: 13.245 min Scan# 1863
Delta R.T. -0.134 min
Lab File: VW031925.D
Acq: 24 Jul 2025 14:35

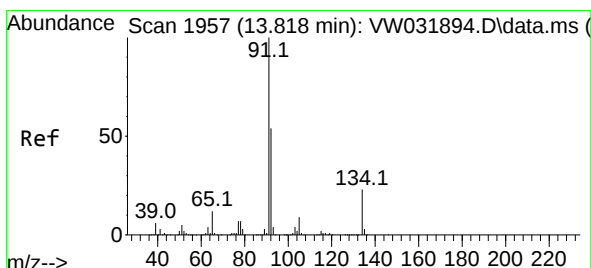
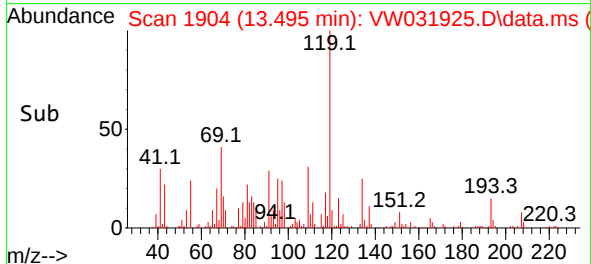
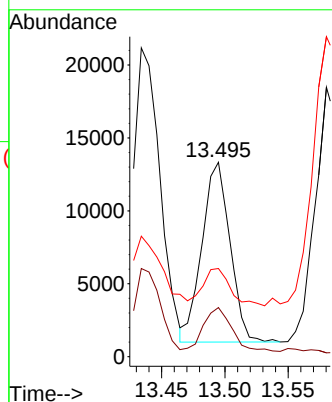
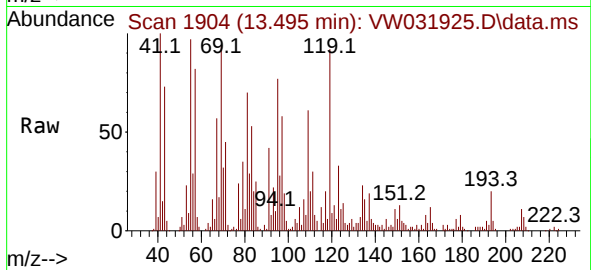
Tgt Ion:105 Resp: 839773
Ion Ratio Lower Upper
105 100
134 0.0 9.2 27.6#





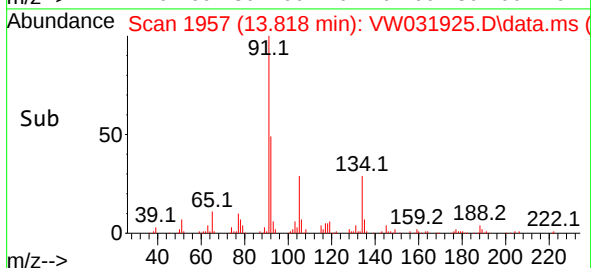
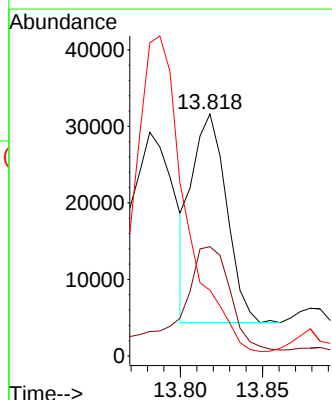
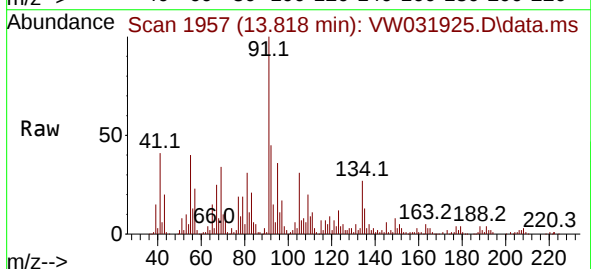
#86
p-Isopropyltoluene
Concen: 1.729 ug/l
RT: 13.495 min Scan# 1904
Delta R.T. 0.000 min
Lab File: VW031925.D
Acq: 24 Jul 2025 14:35

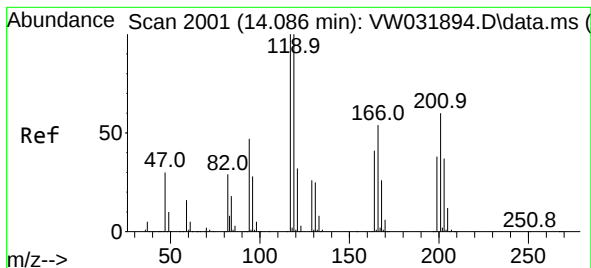
Tgt Ion:119 Resp: 19051
Ion Ratio Lower Upper
119 100
134 25.0 13.0 39.0
91 20.0 12.7 38.1



#89
n-Butylbenzene
Concen: 3.694 ug/l
RT: 13.818 min Scan# 1957
Delta R.T. 0.000 min
Lab File: VW031925.D
Acq: 24 Jul 2025 14:35

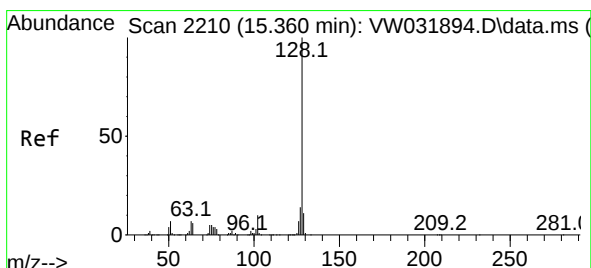
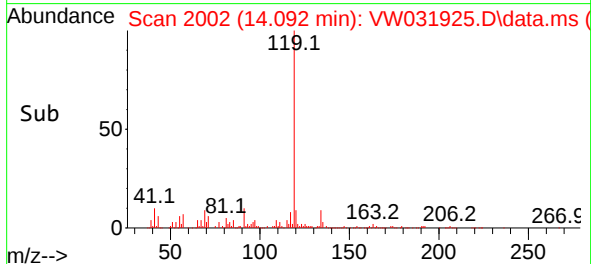
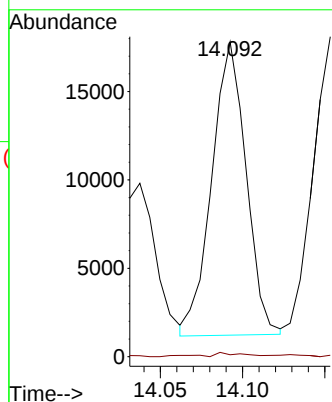
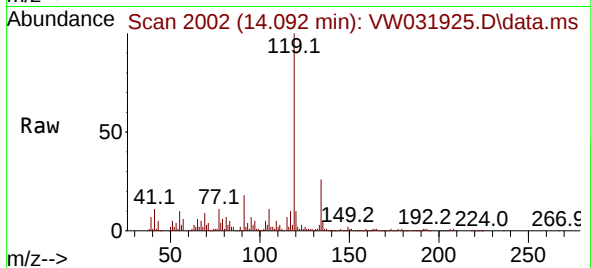
Tgt Ion: 91 Resp: 39921
Ion Ratio Lower Upper
91 100
92 65.8 27.2 81.5
134 0.0 11.6 34.7#





#90
Hexachloroethane
Concen: 12.632 ug/l
RT: 14.092 min Scan# 2002
Delta R.T. 0.006 min
Lab File: VW031925.D
Acq: 24 Jul 2025 14:35

Tgt Ion:117 Resp: 24062
Ion Ratio Lower Upper
117 100
201 0.5 28.4 85.2#



#95
Naphthalene
Concen: 55.962 ug/l
RT: 15.360 min Scan# 2210
Delta R.T. 0.000 min
Lab File: VW031925.D
Acq: 24 Jul 2025 14:35

Tgt Ion:128 Resp: 411433
Ion Ratio Lower Upper
128 100
127 13.9 10.7 16.1
129 12.0 9.2 13.8

