

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM041025\
 Data File : BM049887.D
 Acq On : 10 Apr 2025 16:46
 Operator : RC/JU
 Sample : Q1739-02
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 WC-LIQUID-20250404

Quant Time: Apr 10 17:25:07 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM040825.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Apr 09 04:00:55 2025
 Response via : Initial Calibration

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

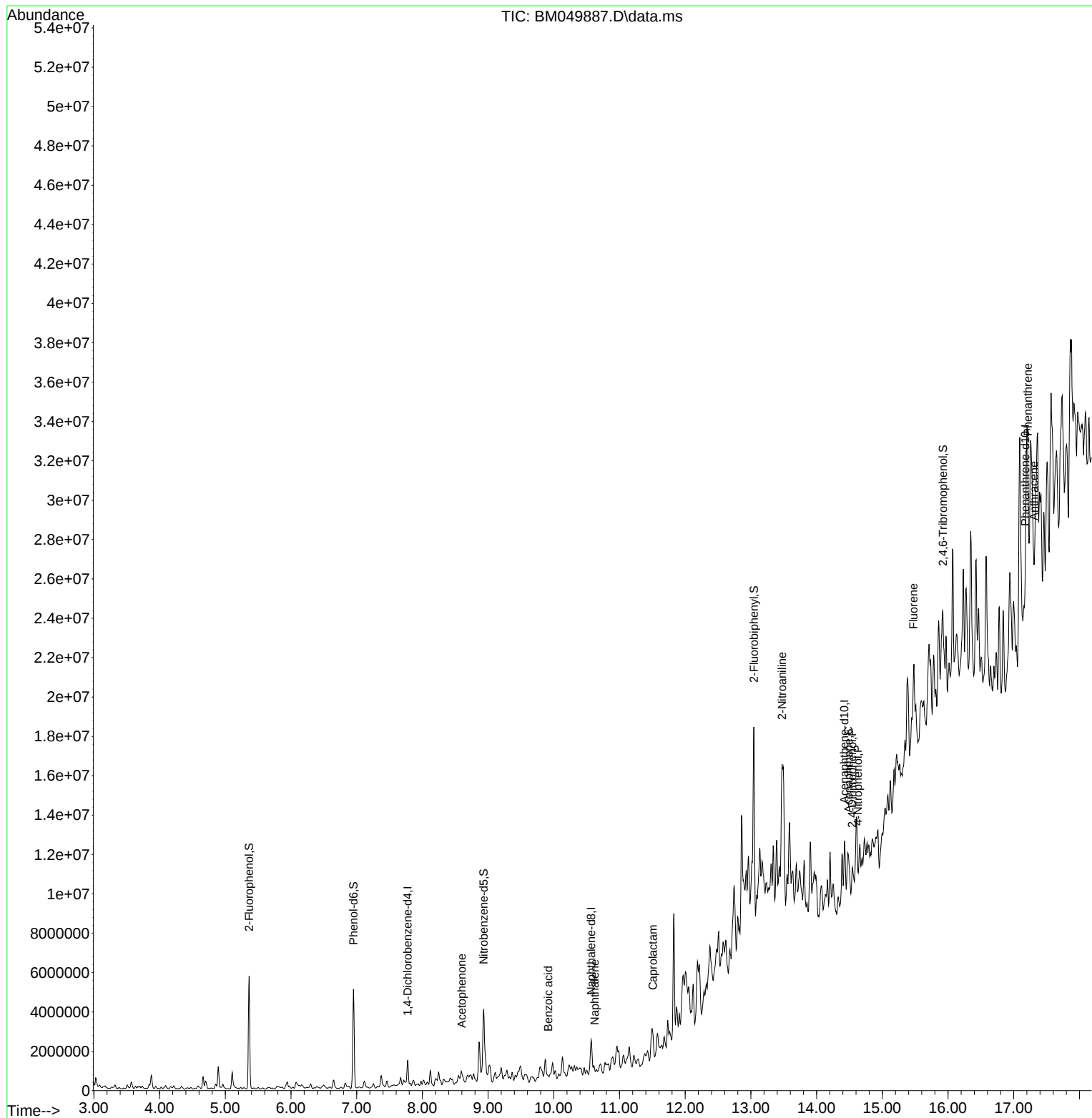
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.775	152	358611	20.000	ng	0.00
21) Naphthalene-d8	10.569	136	1281723	20.000	ng	0.00
39) Acenaphthene-d10	14.421	164	872039	20.000	ng	0.00
64) Phenanthrene-d10	17.174	188	1741711	20.000	ng	0.01
76) Chrysene-d12	21.433	240	763660	20.000	ng	# 0.03
86) Perylene-d12	24.468	264	2090736	20.000	ng	0.06
System Monitoring Compounds						
5) 2-Fluorophenol	5.363	112	2581539	122.240	ng	0.00
7) Phenol-d6	6.951	99	2941862	111.962	ng	0.00
23) Nitrobenzene-d5	8.933	82	2084525	90.563	ng	0.00
42) 2,4,6-Tribromophenol	15.921	330	1999799	157.662	ng	0.01
45) 2-Fluorobiphenyl	13.045	172	5961326	92.698	ng	0.00
79) Terphenyl-d14	19.815	244	5954452	146.124	ng	0.02
Target Compounds						
						Qvalue
22) Acetophenone	8.598	105	63786	2.048	ng	# 77
31) Naphthalene	10.622	128	134597	2.044	ng	# 94
32) Benzoic acid	9.916	122	784	8.577	ng	# 1
35) Caprolactam	11.510	113	18595	2.930	ng	# 1
48) 2-Nitroaniline	13.474	65	47768	4.053	ng	# 21
52) Acenaphthene	14.486	154	296602	6.283	ng	# 98
54) 2,4-Dinitrophenol	14.539	184	928	7.315	ng	# 1
56) 4-Nitrophenol	14.627	139	23366	2.105	ng	# 32
58) Fluorene	15.474	166	131487	2.096	ng	# 72
71) Phenanthrene	17.215	178	944184	9.888	ng	# 87
72) Anthracene	17.309	178	491977	5.228	ng	# 78
75) Fluoranthene	19.244	202	4186907	35.662	ng	# 42
78) Pyrene	19.609	202	4507158	85.638	ng	# 72
81) Benzo(a)anthracene	21.421	228	728722	14.358	ng	# 56
83) Chrysene	21.486	228	431882	8.951	ng	# 51
87) Indeno(1,2,3-cd)pyrene	27.844	276	400940	2.573	ng	# 93
88) Benzo(b)fluoranthene	23.527	252	1600999	11.990	ng	# 57
89) Benzo(k)fluoranthene	23.527	252	1600999	12.373	ng	# 57
90) Benzo(a)pyrene	24.327	252	804802	6.859	ng	# 46
92) Benzo(g,h,i)perylene	28.897	276	333461	2.542	ng	# 76

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

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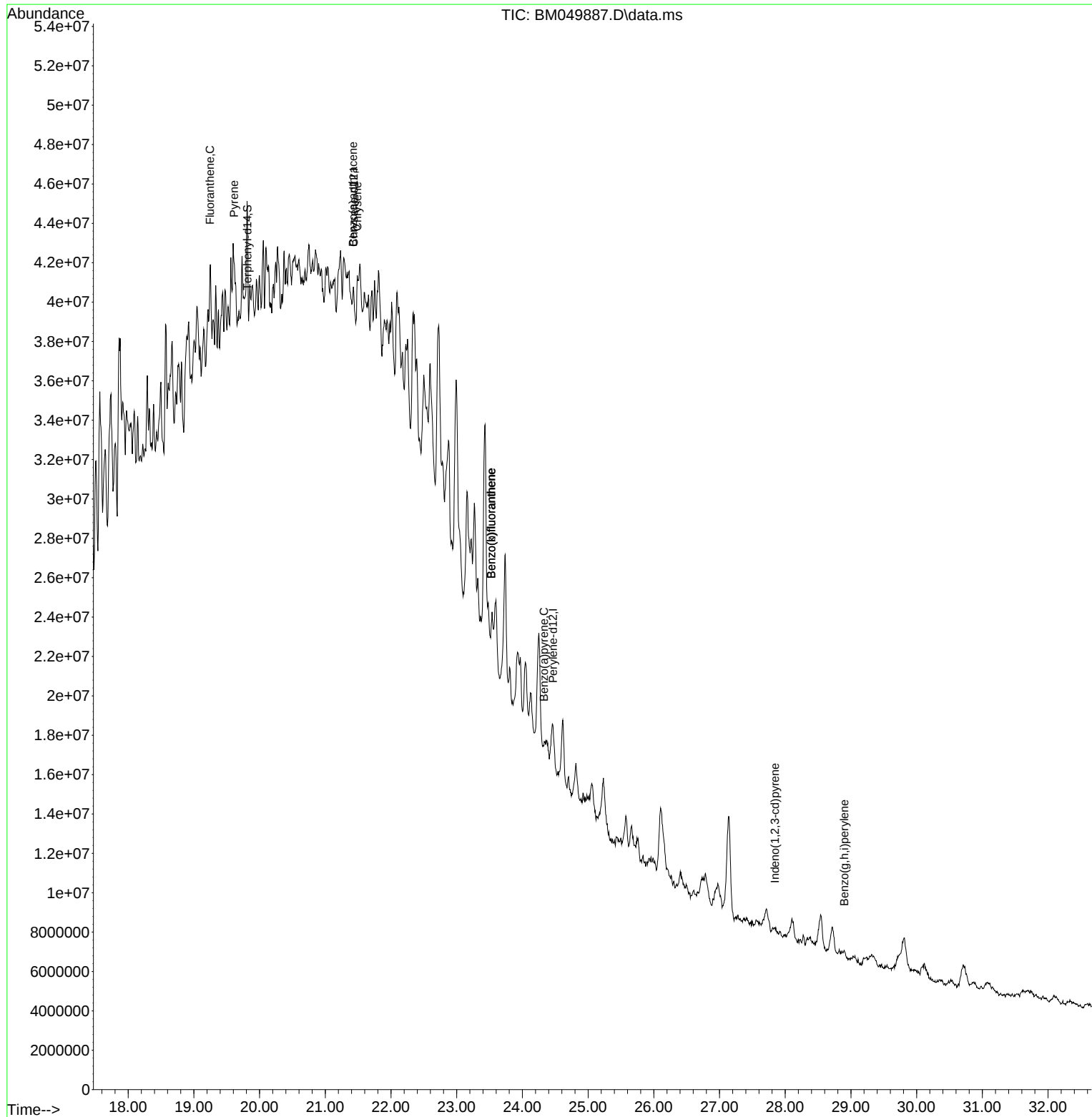
Quant Time: Apr 10 17:25:07 2025
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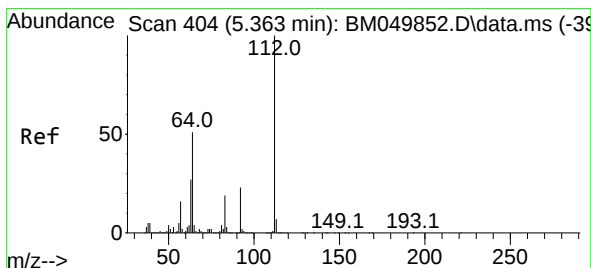
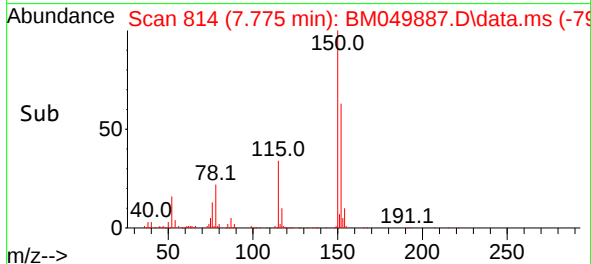
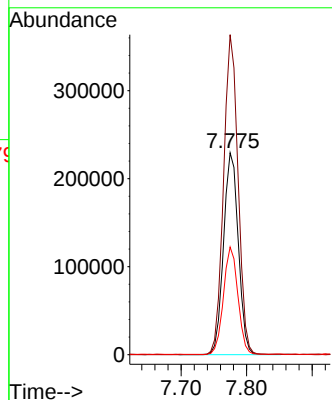
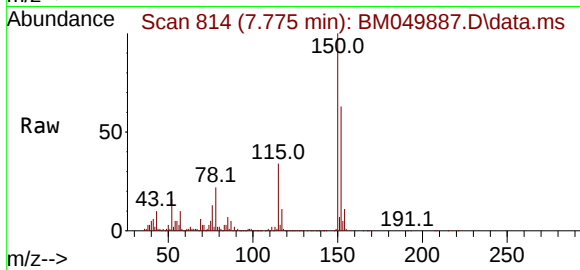




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.775 min Scan# 815
Delta R.T. -0.006 min
Lab File: BM049887.D
Acq: 10 Apr 2025 16:46

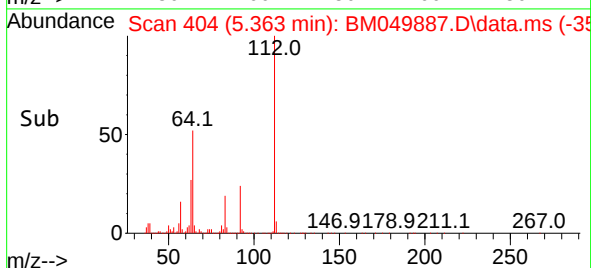
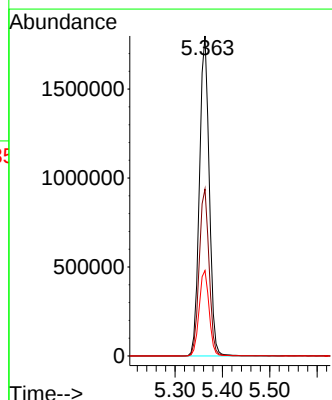
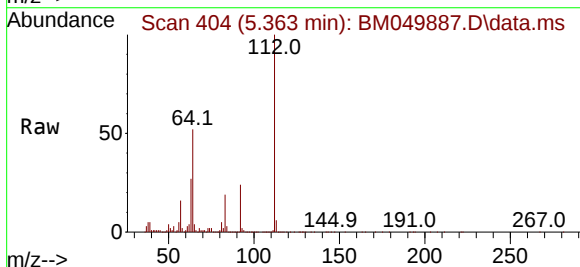
Instrument :
BNA_M
ClientSampleId :
WC-LIQUID-20250404

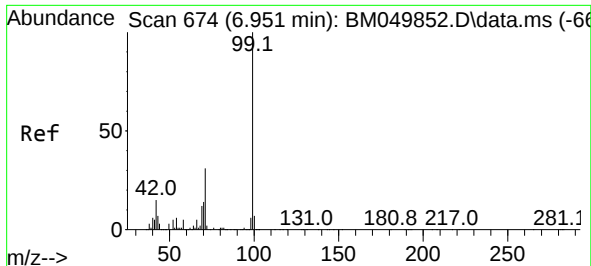
Tgt Ion:152 Resp: 358611
Ion Ratio Lower Upper
152 100
150 158.5 124.3 186.5
115 53.3 41.1 61.7



#5
2-Fluorophenol
Concen: 122.240 ng
RT: 5.363 min Scan# 404
Delta R.T. -0.000 min
Lab File: BM049887.D
Acq: 10 Apr 2025 16:46

Tgt Ion:112 Resp: 2581539
Ion Ratio Lower Upper
112 100
64 52.1 41.0 61.6
63 26.7 21.5 32.3



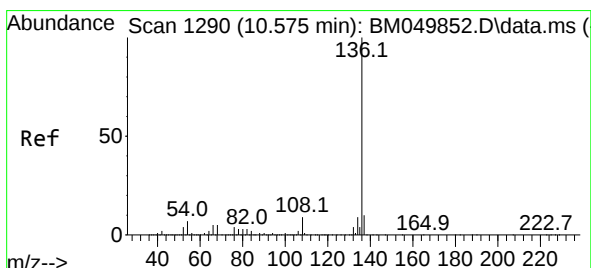
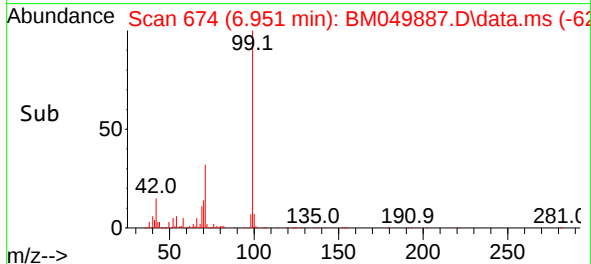
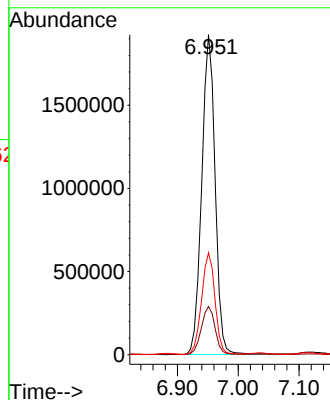
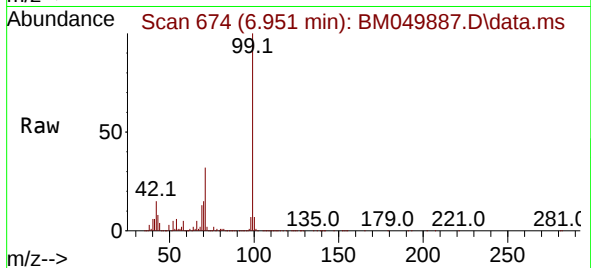


#7
Phenol-d6
Concen: 111.962 ng
RT: 6.951 min Scan# 61
Delta R.T. -0.000 min
Lab File: BM049887.D
Acq: 10 Apr 2025 16:46

Instrument :
BNA_M
ClientSampleId :
WC-LIQUID-20250404

Tgt Ion: 99 Resp: 2941862

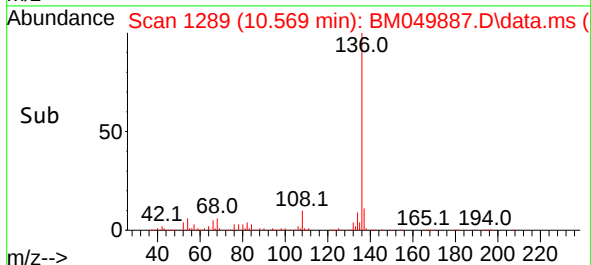
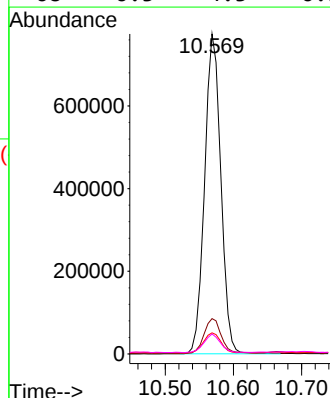
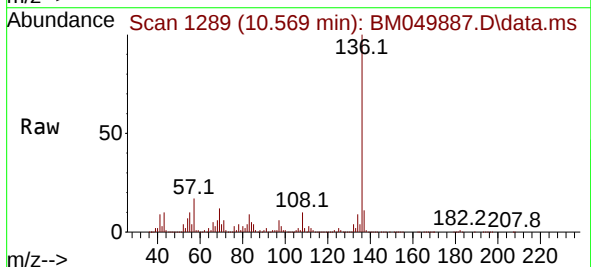
Ion	Ratio	Lower	Upper
99	100		
42	15.1	12.1	18.1
71	31.9	24.9	37.3

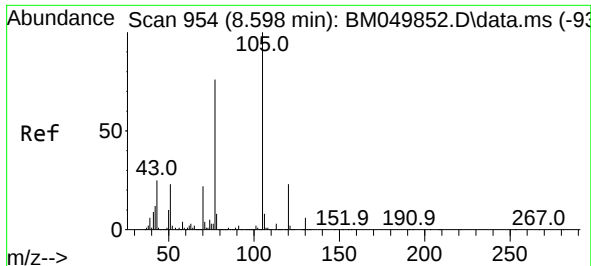


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.569 min Scan# 1289
Delta R.T. -0.006 min
Lab File: BM049887.D
Acq: 10 Apr 2025 16:46

Tgt Ion: 136 Resp: 1281723

Ion	Ratio	Lower	Upper
136	100		
137	11.1	8.4	12.6
54	6.6	5.3	7.9
68	6.3	4.3	6.5

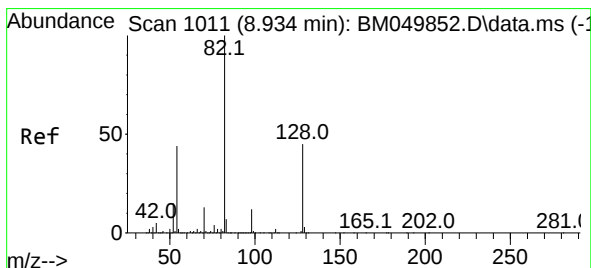
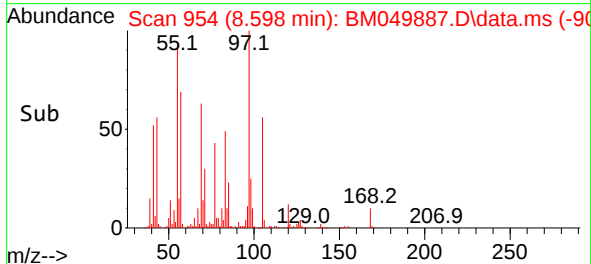
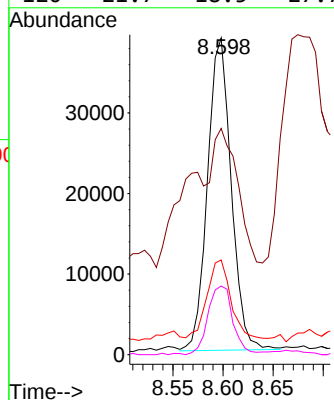
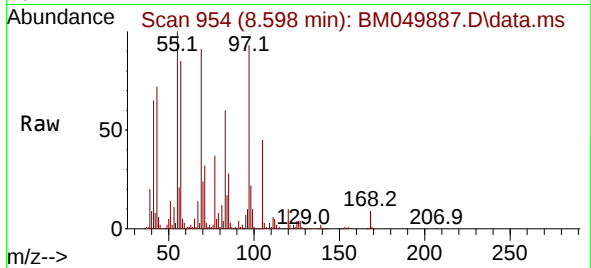




#22
Acetophenone
Concen: 2.048 ng
RT: 8.598 min Scan# 91
Delta R.T. -0.000 min
Lab File: BM049887.D
Acq: 10 Apr 2025 16:46

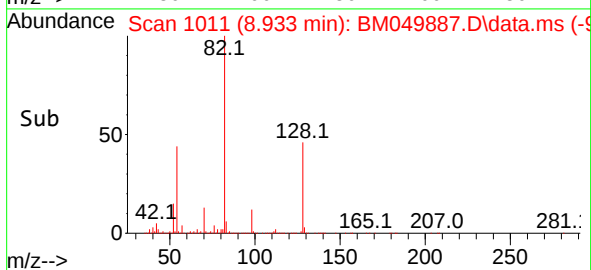
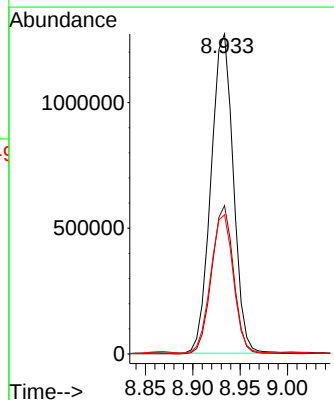
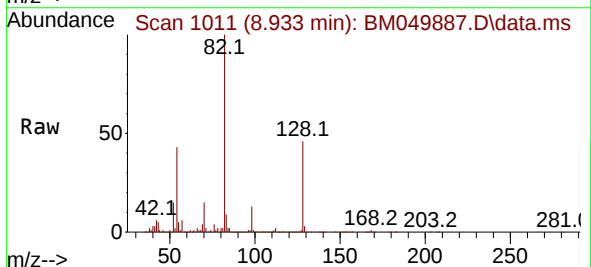
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BNA_M
ClientSampleId :
WC-LIQUID-20250404

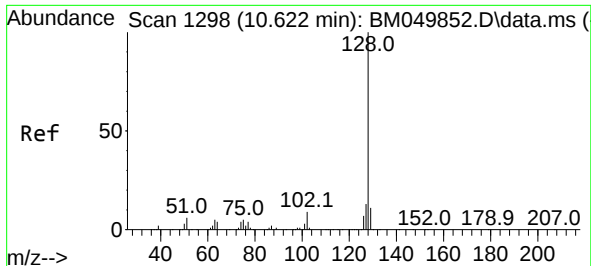
Tgt Ion:105 Resp: 63786
Ion Ratio Lower Upper
105 100
71 71.5 3.0 4.4#
51 29.9 18.6 27.8#
120 21.7 18.5 27.7



#23
Nitrobenzene-d5
Concen: 90.563 ng
RT: 8.933 min Scan# 1011
Delta R.T. -0.000 min
Lab File: BM049887.D
Acq: 10 Apr 2025 16:46

Tgt Ion: 82 Resp: 2084525
Ion Ratio Lower Upper
82 100
128 46.3 36.2 54.2
54 43.5 35.0 52.6

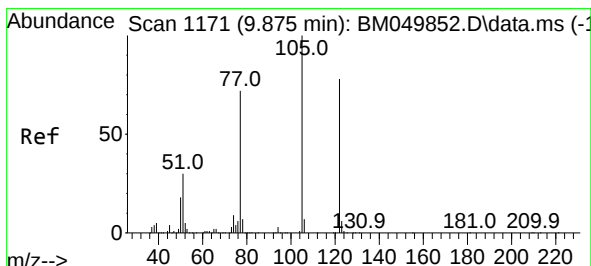
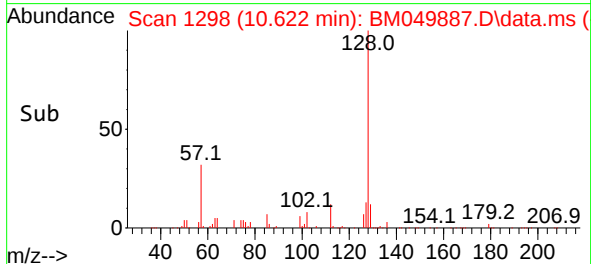
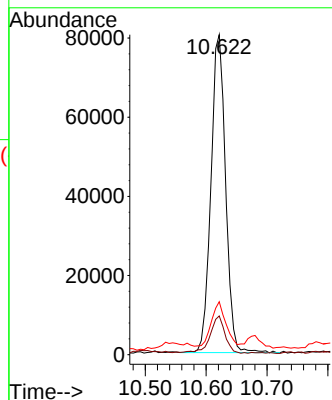
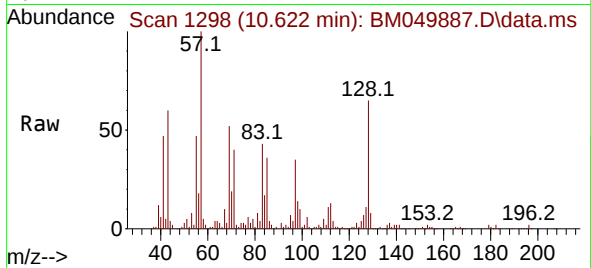




#31
Naphthalene
Concen: 2.044 ng
RT: 10.622 min Scan# 1178
Delta R.T. -0.000 min
Lab File: BM049887.D
Acq: 10 Apr 2025 16:46

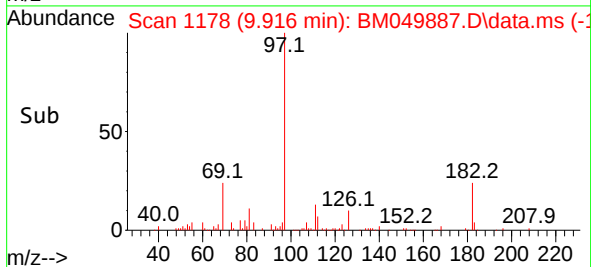
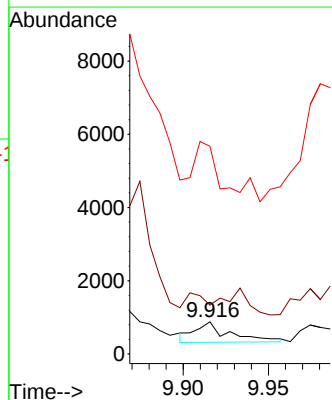
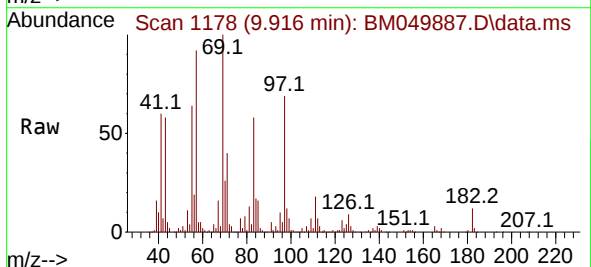
Instrument :
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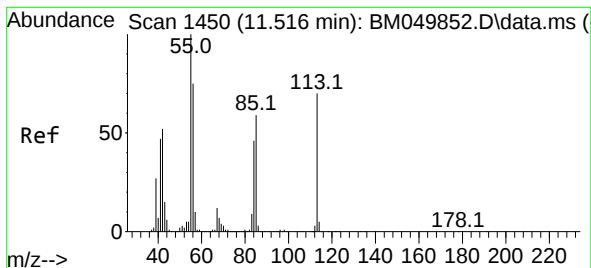
Tgt Ion:128 Resp: 134597
Ion Ratio Lower Upper
128 100
129 12.1 8.8 13.2
127 16.5 10.6 15.8#



#32
Benzoic acid
Concen: 8.577 ng
RT: 9.916 min Scan# 1178
Delta R.T. 0.041 min
Lab File: BM049887.D
Acq: 10 Apr 2025 16:46

Tgt Ion:122 Resp: 784
Ion Ratio Lower Upper
122 100
105 151.5 103.8 143.8#
77 644.2 70.7 110.7#





#35

Caprolactam

Concen: 2.930 ng

RT: 11.510 min Scan# 1449

Delta R.T. -0.006 min

Lab File: BM049887.D

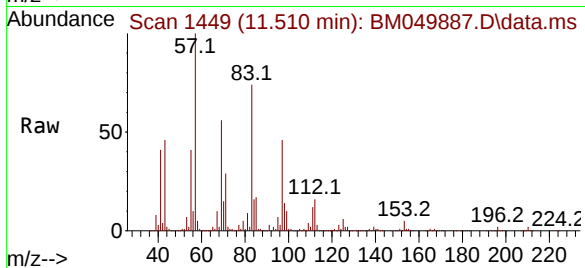
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Instrument :

BNA_M

ClientSampleId :

WC-LIQUID-20250404



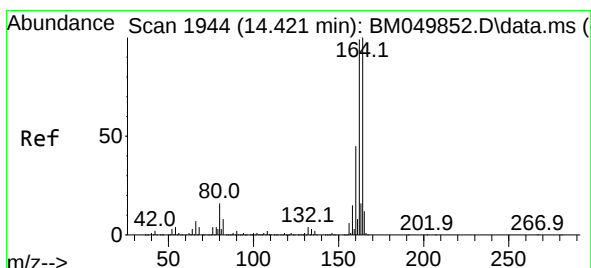
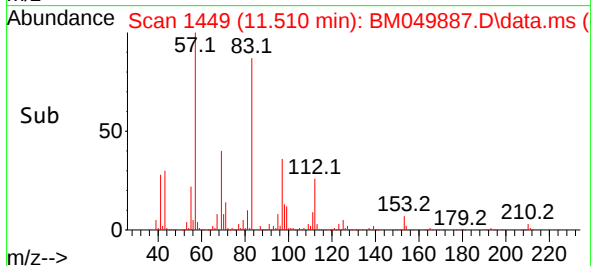
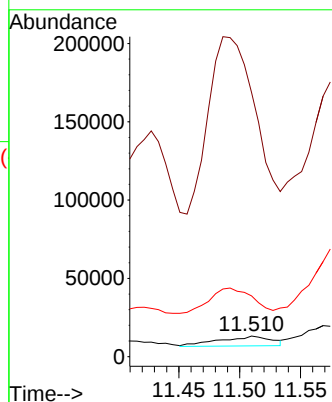
Tgt Ion:113 Resp: 18595

Ion Ratio Lower Upper

113 100

55 1274.7 124.3 164.3#

56 293.5 87.5 127.5#



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.421 min Scan# 1944

Delta R.T. -0.000 min

Lab File: BM049887.D

Acq: 10 Apr 2025 16:46

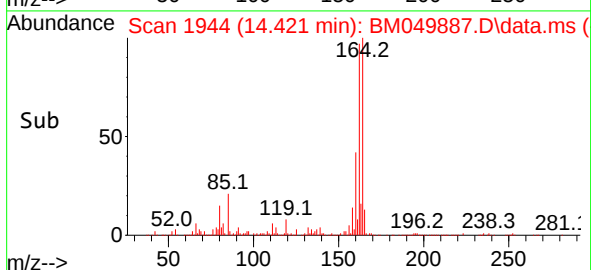
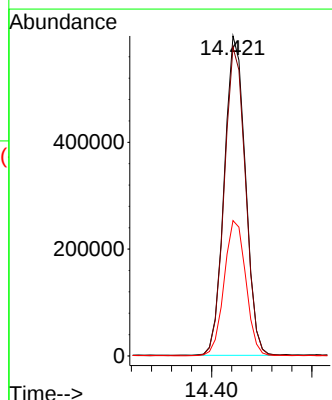
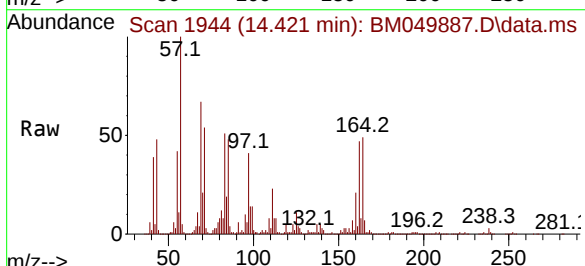
Tgt Ion:164 Resp: 872039

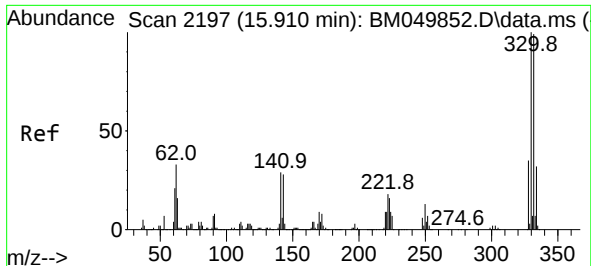
Ion Ratio Lower Upper

164 100

162 96.4 79.4 119.0

160 42.3 36.2 54.2

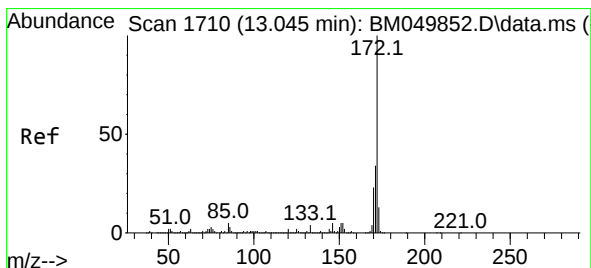
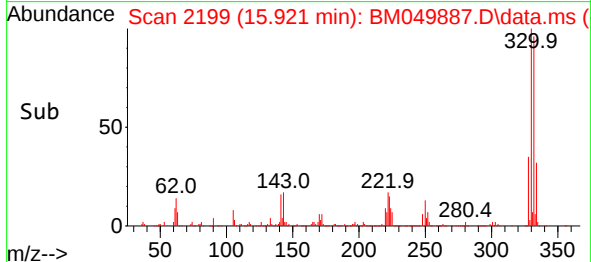
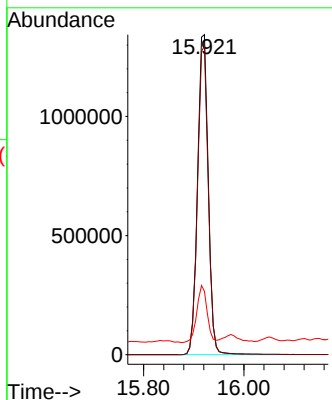
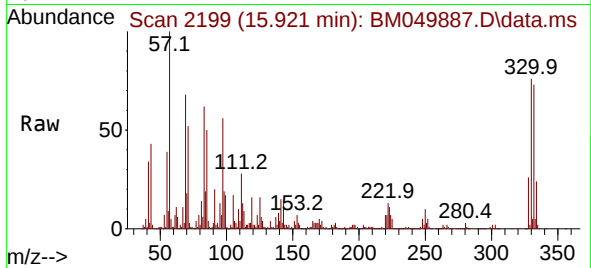




#42
2,4,6-Tribromophenol
Concen: 157.662 ng
RT: 15.921 min Scan# 2199
Delta R.T. 0.012 min
Lab File: BM049887.D
Acq: 10 Apr 2025 16:46

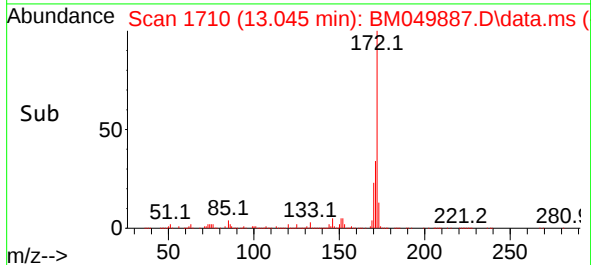
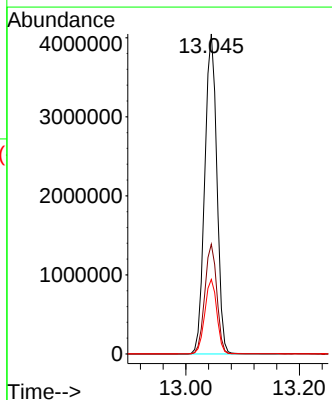
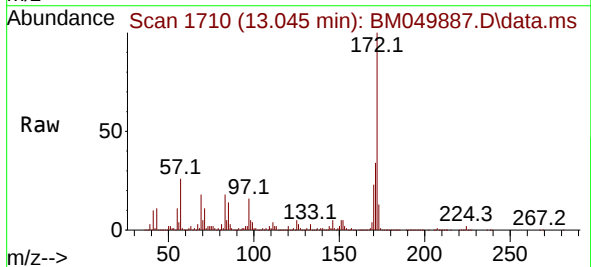
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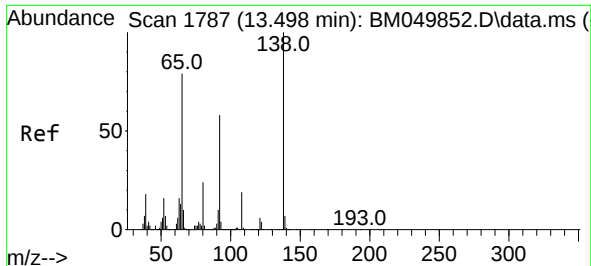
Tgt Ion:330 Resp: 1999799
Ion Ratio Lower Upper
330 100
332 96.1 78.0 117.0
141 17.1 23.5 35.3#



#45
2-Fluorobiphenyl
Concen: 92.698 ng
RT: 13.045 min Scan# 1710
Delta R.T. -0.000 min
Lab File: BM049887.D
Acq: 10 Apr 2025 16:46

Tgt Ion:172 Resp: 5961326
Ion Ratio Lower Upper
172 100
171 34.3 27.4 41.2
170 23.3 18.6 28.0

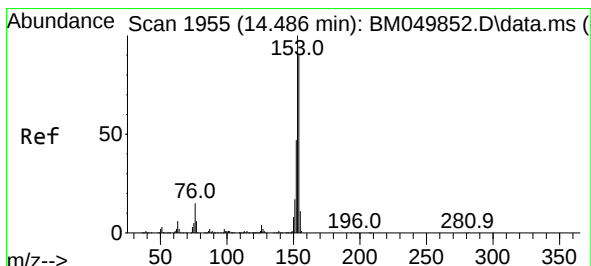
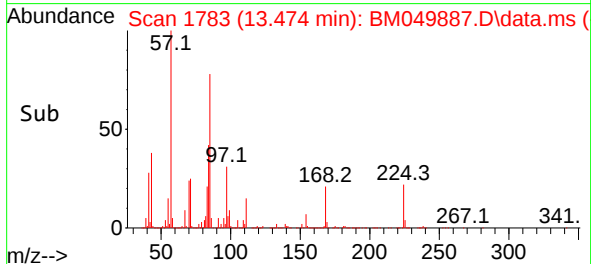
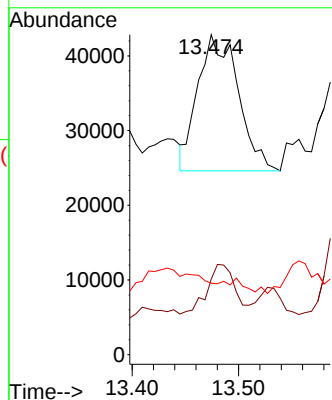
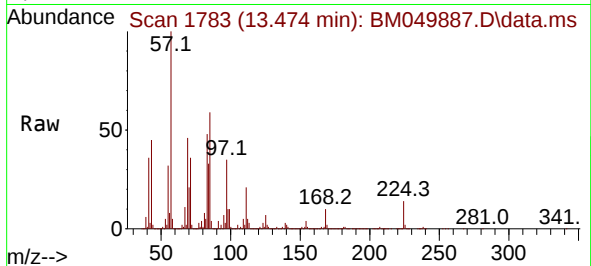




#48
2-Nitroaniline
Concen: 4.053 ng
RT: 13.474 min Scan# 1783
Delta R.T. -0.024 min
Lab File: BM049887.D
Acq: 10 Apr 2025 16:46

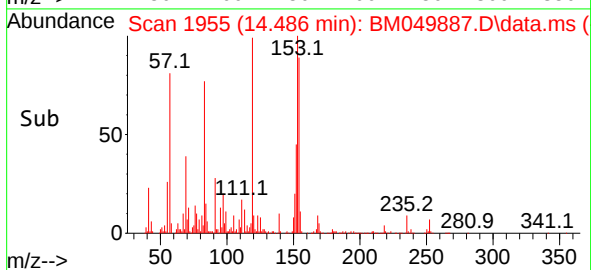
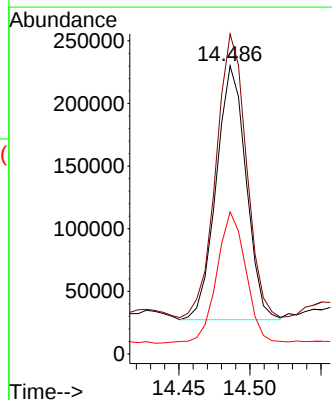
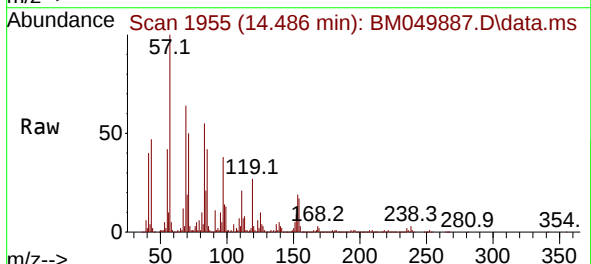
Instrument :
BNA_M
ClientSampleId :
WC-LIQUID-20250404

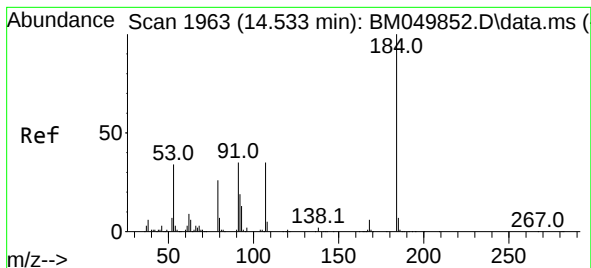
Tgt Ion: 65 Resp: 47768
Ion Ratio Lower Upper
65 100
92 23.6 58.4 87.6#
138 22.3 100.8 151.2#



#52
Acenaphthene
Concen: 6.283 ng
RT: 14.486 min Scan# 1955
Delta R.T. -0.000 min
Lab File: BM049887.D
Acq: 10 Apr 2025 16:46

Tgt Ion:154 Resp: 296602
Ion Ratio Lower Upper
154 100
153 111.0 89.3 133.9
152 49.3 42.2 63.2

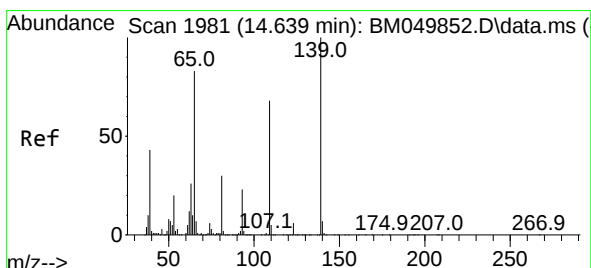
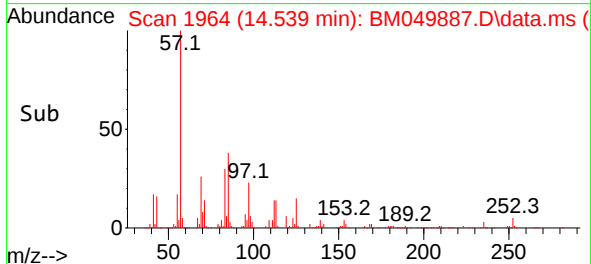
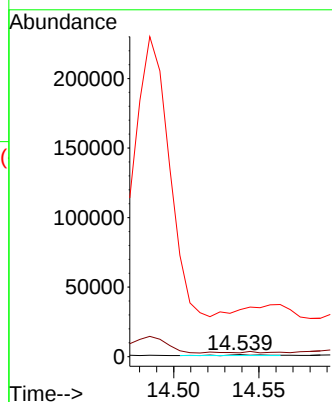
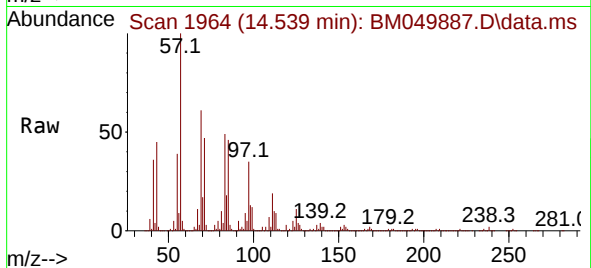




#54
2,4-Dinitrophenol
Concen: 7.315 ng
RT: 14.539 min Scan# 1963
Delta R.T. 0.006 min
Lab File: BM049887.D
Acq: 10 Apr 2025 16:46

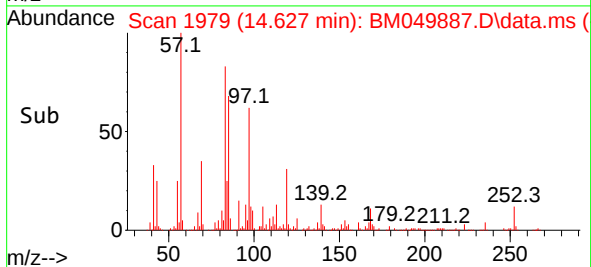
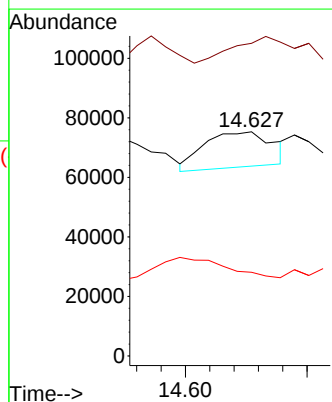
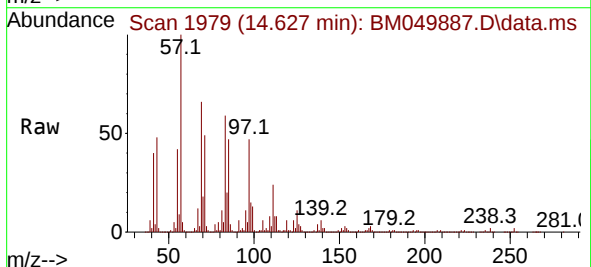
Instrument :
BNA_M
ClientSampleId :
WC-LIQUID-20250404

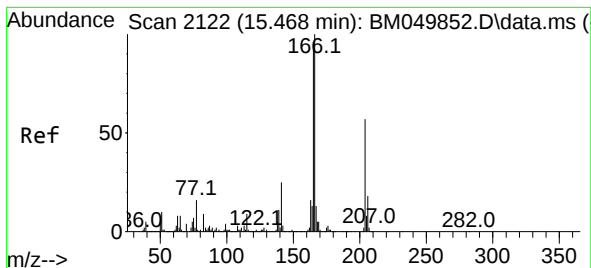
Tgt Ion:184 Resp: 928
Ion Ratio Lower Upper
184 100
63 185.8 38.4 57.6#
154 2290.7 48.1 72.1#



#56
4-Nitrophenol
Concen: 2.105 ng
RT: 14.627 min Scan# 1979
Delta R.T. -0.012 min
Lab File: BM049887.D
Acq: 10 Apr 2025 16:46

Tgt Ion:139 Resp: 23366
Ion Ratio Lower Upper
139 100
109 139.5 47.9 87.9#
65 37.3 62.7 102.7#





#58

Fluorene

Concen: 2.096 ng

RT: 15.474 min Scan# 21

Delta R.T. 0.006 min

Lab File: BM049887.D

Acq: 10 Apr 2025 16:46

Instrument :

BNA_M

ClientSampleId :

WC-LIQUID-20250404

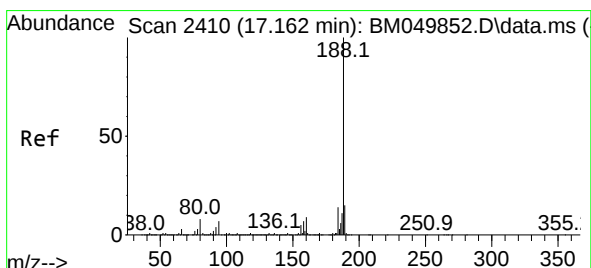
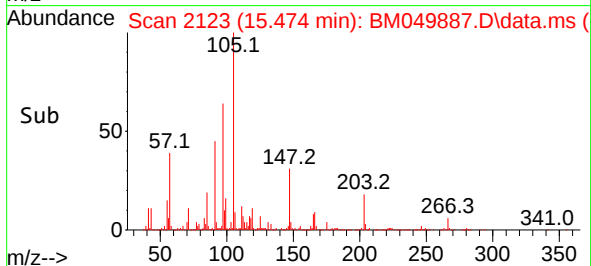
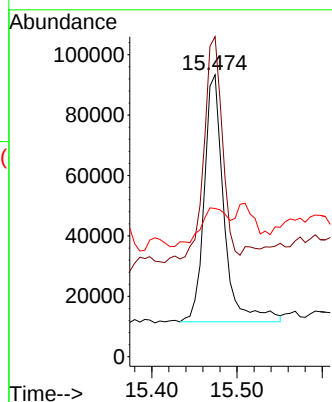
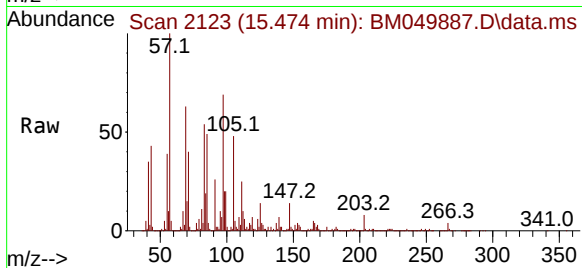
Tgt Ion:166 Resp: 131487

Ion Ratio Lower Upper

166 100

165 113.5 76.3 114.5

167 52.6 10.7 16.1#



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.174 min Scan# 2412

Delta R.T. 0.012 min

Lab File: BM049887.D

Acq: 10 Apr 2025 16:46

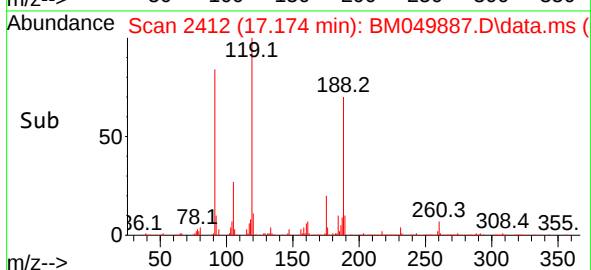
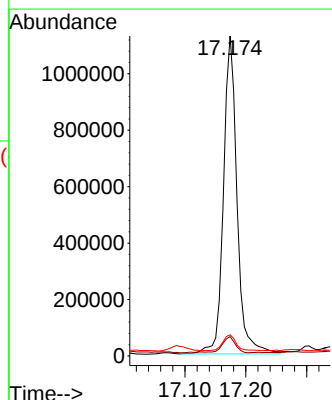
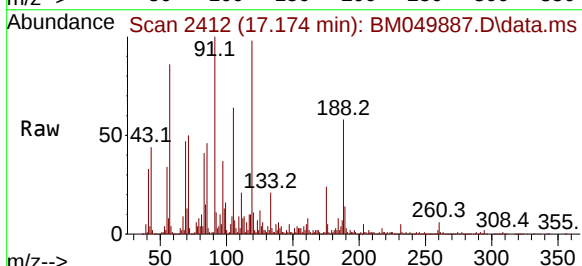
Tgt Ion:188 Resp: 1741711

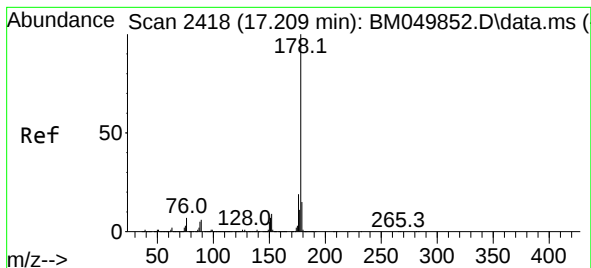
Ion Ratio Lower Upper

188 100

94 6.1 5.8 8.6

80 6.6 6.4 9.6





#71

Phenanthrene

Concen: 9.888 ng

RT: 17.215 min Scan# 2418

Delta R.T. 0.006 min

Lab File: BM049887.D

Acq: 10 Apr 2025 16:46

Instrument :

BNA_M

ClientSampleId :

WC-LIQUID-20250404

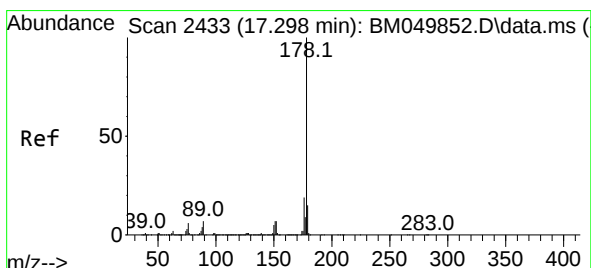
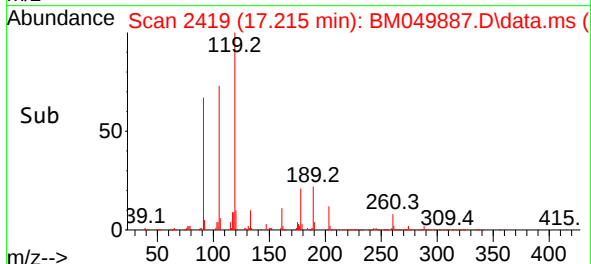
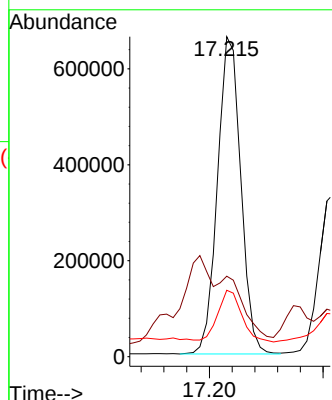
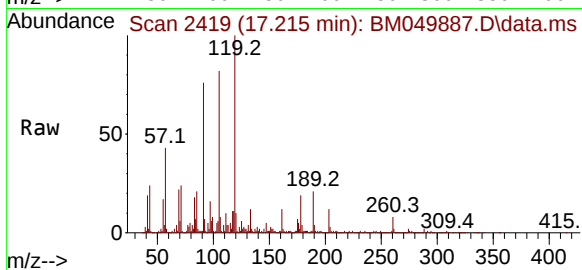
Tgt Ion:178 Resp: 944184

Ion Ratio Lower Upper

178 100

176 25.1 15.4 23.2#

179 20.8 12.3 18.5#



#72

Anthracene

Concen: 5.228 ng

RT: 17.309 min Scan# 2435

Delta R.T. 0.012 min

Lab File: BM049887.D

Acq: 10 Apr 2025 16:46

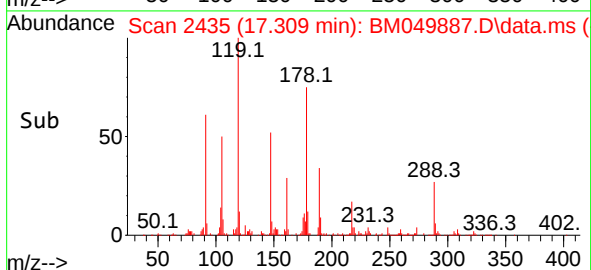
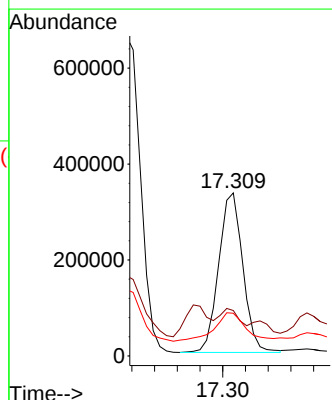
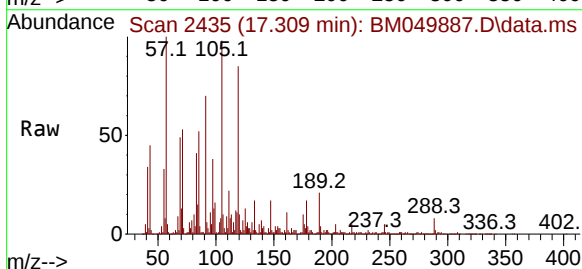
Tgt Ion:178 Resp: 491977

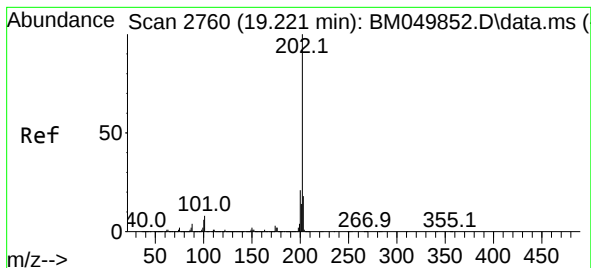
Ion Ratio Lower Upper

178 100

176 27.9 15.1 22.7#

179 26.2 12.4 18.6#





#75

Fluoranthene

Concen: 35.662 ng

RT: 19.244 min Scan# 21

Delta R.T. 0.023 min

Lab File: BM049887.D

Acq: 10 Apr 2025 16:46

Instrument :

BNA_M

ClientSampleId :

WC-LIQUID-20250404

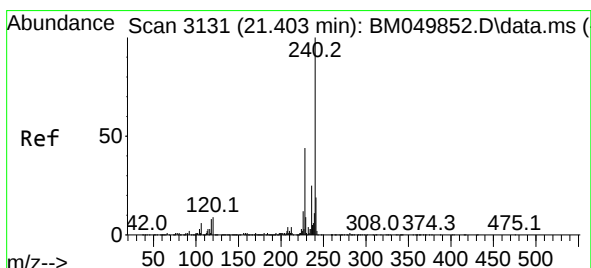
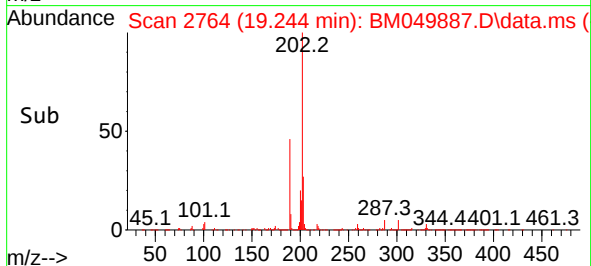
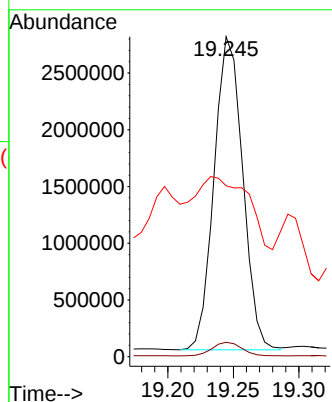
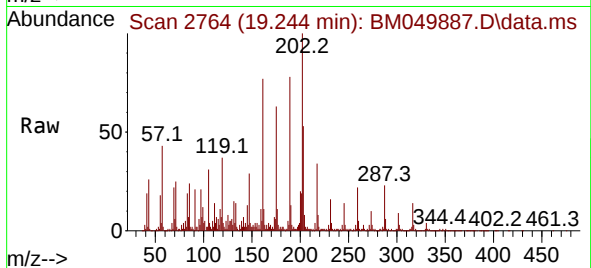
Tgt Ion:202 Resp: 4186907

Ion Ratio Lower Upper

202 100

101 4.5 0.0 28.4

203 53.4 0.0 37.8#



#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.433 min Scan# 3136

Delta R.T. 0.029 min

Lab File: BM049887.D

Acq: 10 Apr 2025 16:46

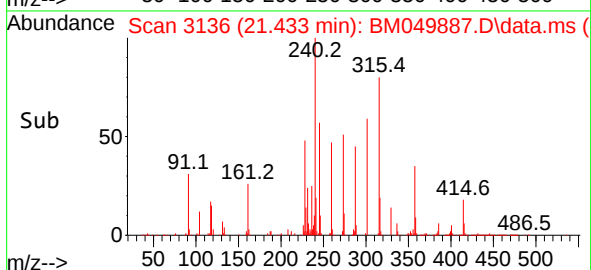
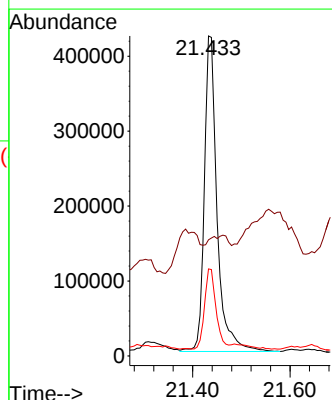
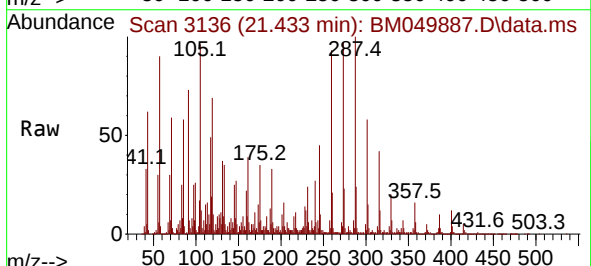
Tgt Ion:240 Resp: 763660

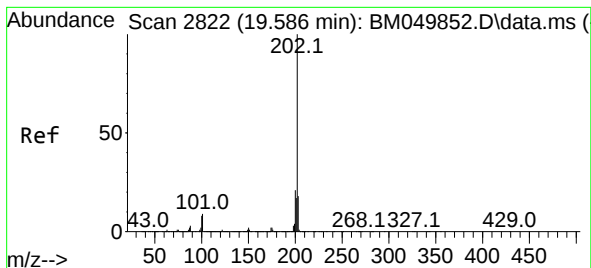
Ion Ratio Lower Upper

240 100

120 36.3 6.9 10.3#

236 27.2 20.4 30.6





#78

Pyrene

Concen: 85.638 ng

RT: 19.609 min Scan# 2

Delta R.T. 0.023 min

Lab File: BM049887.D

Acq: 10 Apr 2025 16:46

Instrument :

BNA_M

ClientSampleId :

WC-LIQUID-20250404

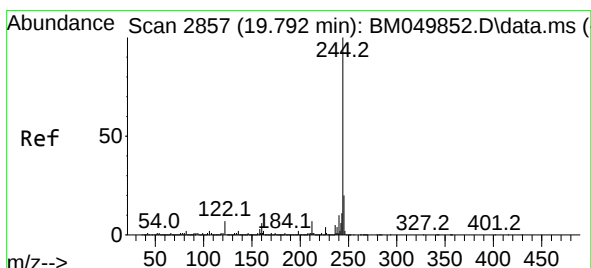
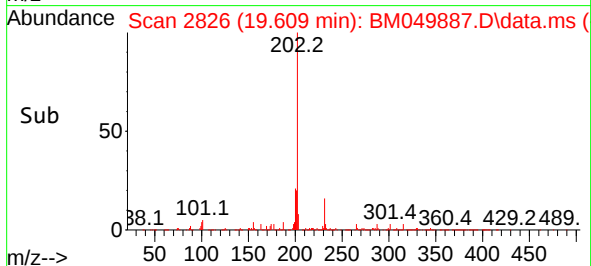
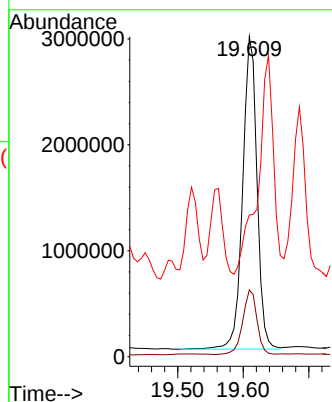
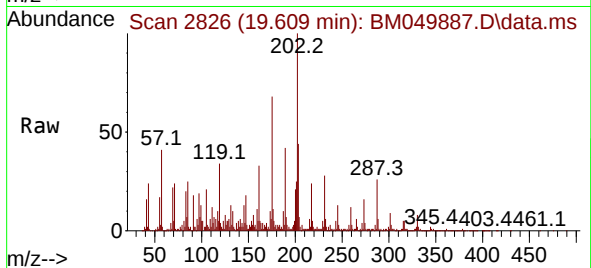
Tgt Ion:202 Resp: 4507158

Ion Ratio Lower Upper

202 100

200 20.8 16.5 24.7

203 44.3 14.0 21.0#



#79

Terphenyl-d14

Concen: 146.124 ng

RT: 19.815 min Scan# 2861

Delta R.T. 0.023 min

Lab File: BM049887.D

Acq: 10 Apr 2025 16:46

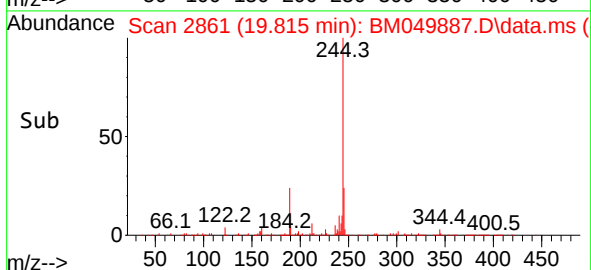
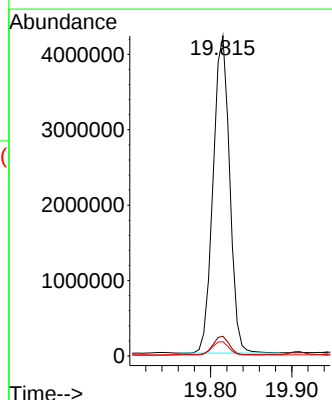
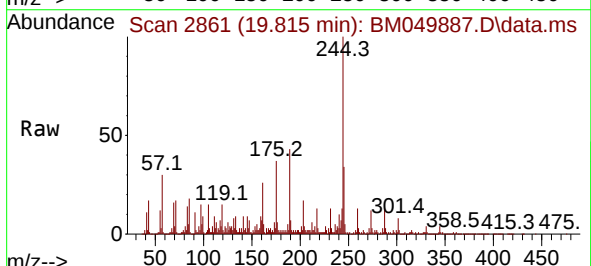
Tgt Ion:244 Resp: 5954452

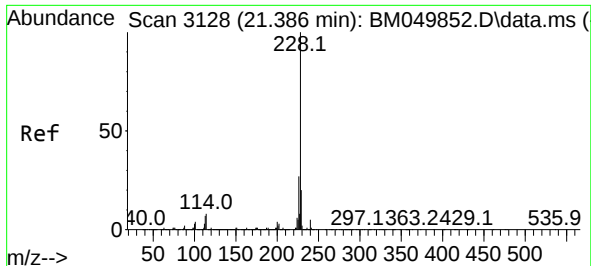
Ion Ratio Lower Upper

244 100

212 6.2 5.5 8.3

122 4.4 5.4 8.0#

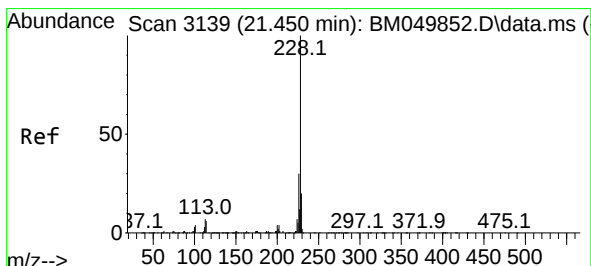
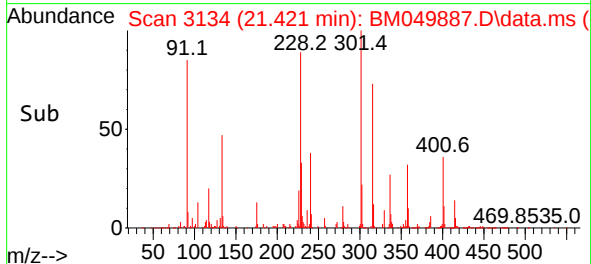
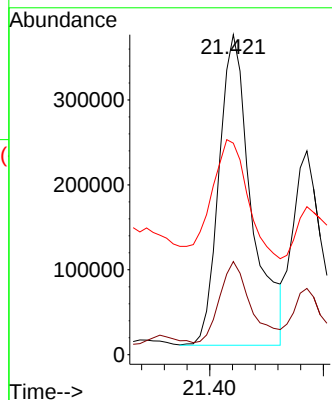
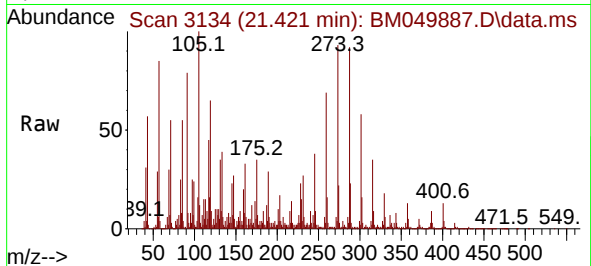




#81
Benzo(a)anthracene
Concen: 14.358 ng
RT: 21.421 min Scan# 311
Delta R.T. 0.035 min
Lab File: BM049887.D
Acq: 10 Apr 2025 16:46

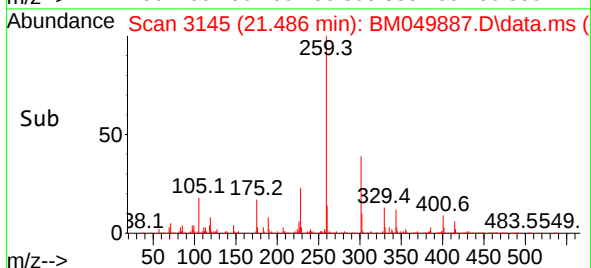
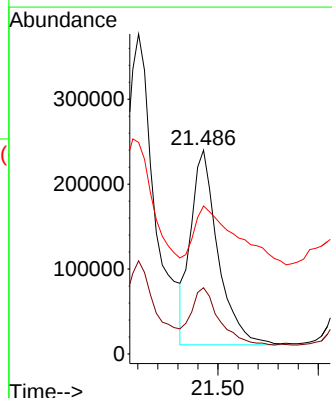
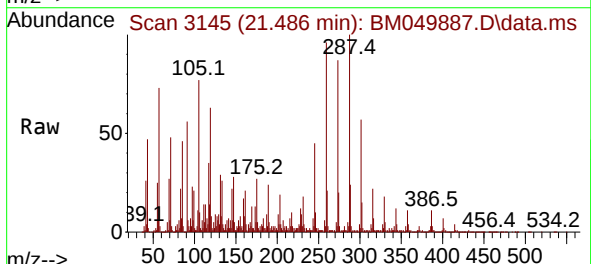
Instrument :
BNA_M
ClientSampleId :
WC-LIQUID-20250404

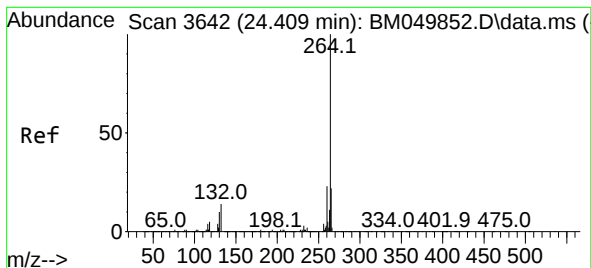
Tgt Ion:228 Resp: 728722
Ion Ratio Lower Upper
228 100
226 29.1 21.8 32.8
229 66.1 15.8 23.8#



#83
Chrysene
Concen: 8.951 ng
RT: 21.486 min Scan# 3145
Delta R.T. 0.035 min
Lab File: BM049887.D
Acq: 10 Apr 2025 16:46

Tgt Ion:228 Resp: 431882
Ion Ratio Lower Upper
228 100
226 32.5 24.1 36.1
229 72.6 15.8 23.6#





#86

Perylene-d12

Concen: 20.000 ng

RT: 24.468 min Scan# 3

Delta R.T. 0.059 min

Lab File: BM049887.D

Acq: 10 Apr 2025 16:46

Instrument :

BNA_M

ClientSampleId :

WC-LIQUID-20250404

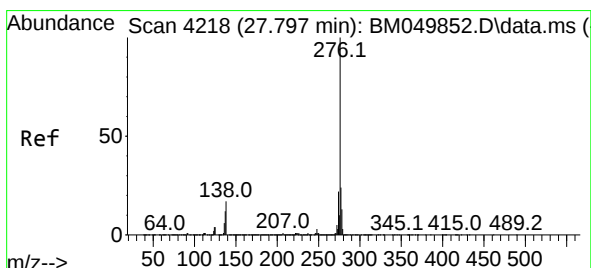
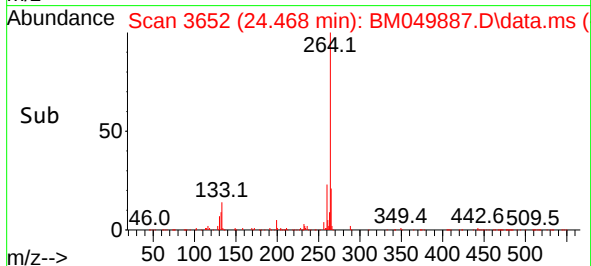
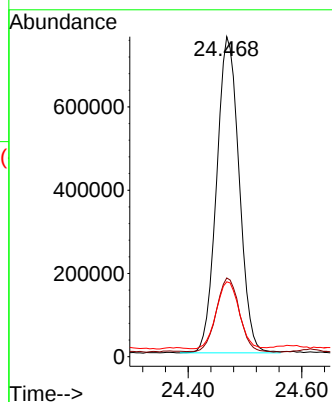
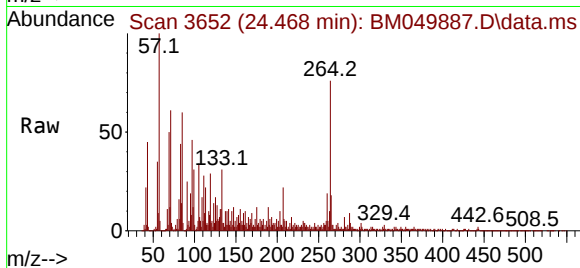
Tgt Ion:264 Resp: 2090736

Ion Ratio Lower Upper

264 100

260 24.6 18.6 28.0

265 23.4 17.8 26.8



#87

Indeno(1,2,3-cd)pyrene

Concen: 2.573 ng

RT: 27.844 min Scan# 4226

Delta R.T. 0.047 min

Lab File: BM049887.D

Acq: 10 Apr 2025 16:46

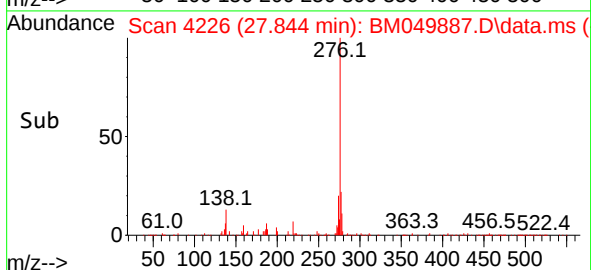
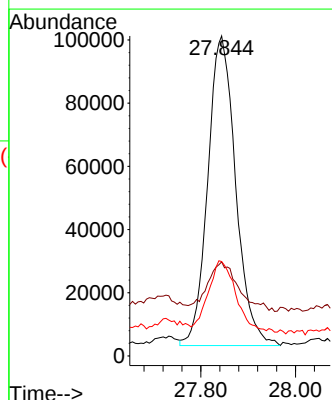
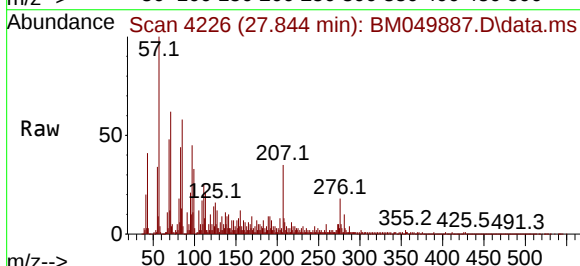
Tgt Ion:276 Resp: 400940

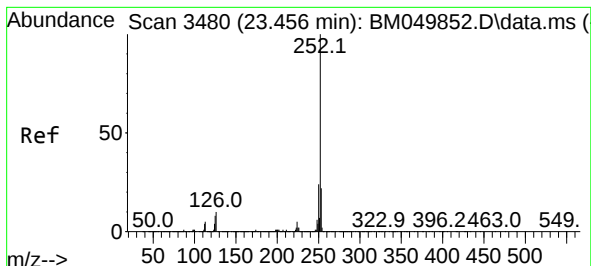
Ion Ratio Lower Upper

276 100

138 17.9 16.8 25.2

277 21.8 20.1 30.1





#88

Benzo(b)fluoranthene

Concen: 11.990 ng

RT: 23.527 min Scan# 3492

Delta R.T. 0.070 min

Lab File: BM049887.D

Acq: 10 Apr 2025 16:46

Instrument :

BNA_M

ClientSampleId :

WC-LIQUID-20250404

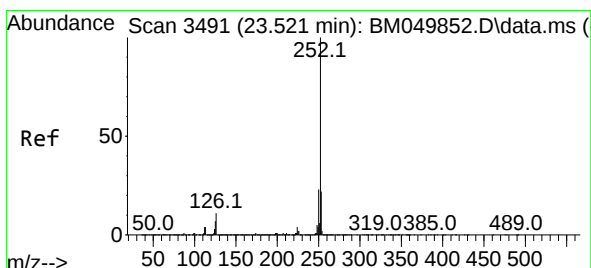
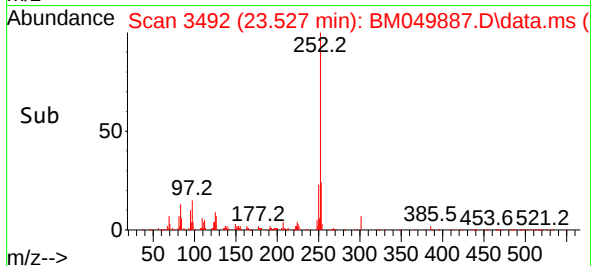
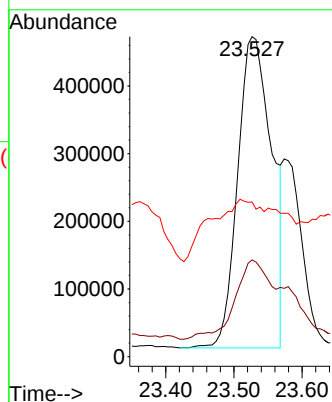
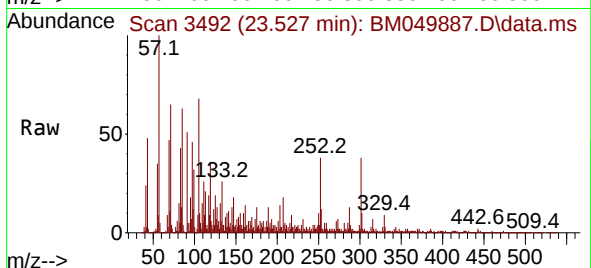
Tgt Ion:252 Resp: 1600999

Ion Ratio Lower Upper

252 100

253 30.2 17.5 26.3#

125 48.3 6.2 9.4#



#89

Benzo(k)fluoranthene

Concen: 12.373 ng

RT: 23.527 min Scan# 3492

Delta R.T. 0.006 min

Lab File: BM049887.D

Acq: 10 Apr 2025 16:46

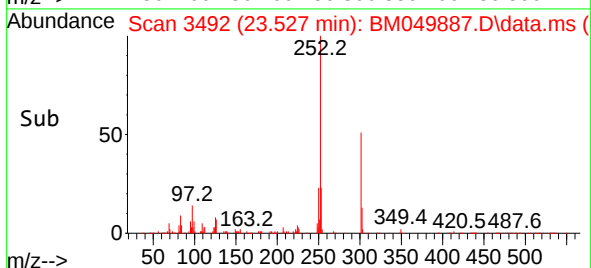
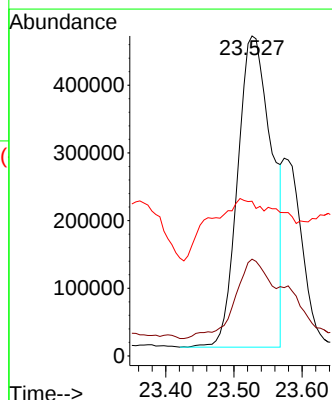
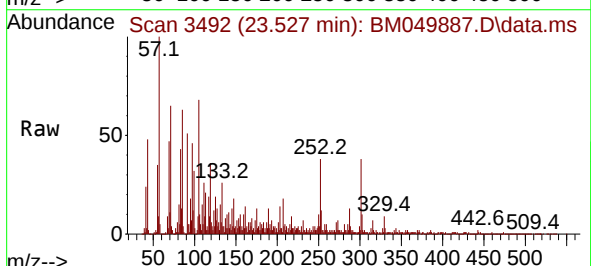
Tgt Ion:252 Resp: 1600999

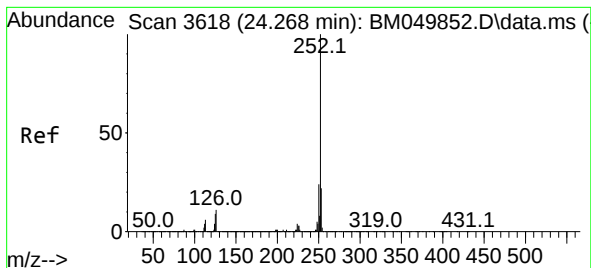
Ion Ratio Lower Upper

252 100

253 30.2 17.4 26.2#

125 48.3 5.8 8.8#





#90

Benzo(a)pyrene

Concen: 6.859 ng

RT: 24.327 min Scan# 3

Delta R.T. 0.059 min

Lab File: BM049887.D

Acq: 10 Apr 2025 16:46

Instrument :

BNA_M

ClientSampleId :

WC-LIQUID-20250404

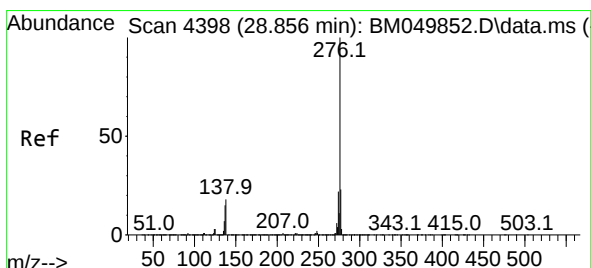
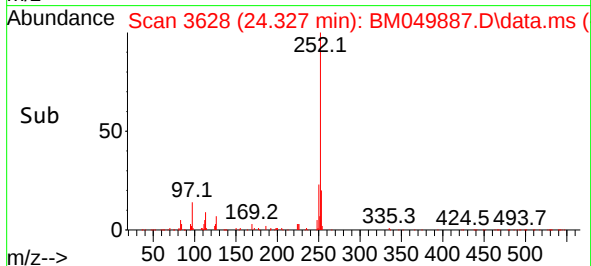
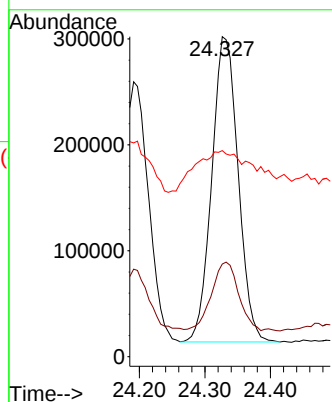
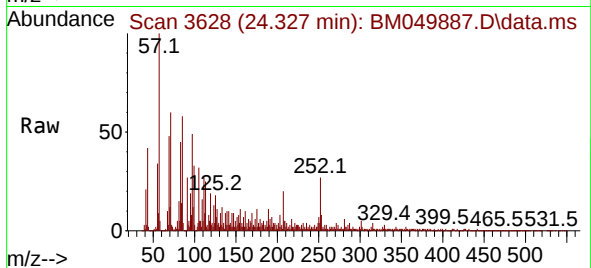
Tgt Ion:252 Resp: 804802

Ion Ratio Lower Upper

252 100

253 29.0 17.8 26.8#

125 64.4 7.0 10.4#



#92

Benzo(g,h,i)perylene

Concen: 2.542 ng

RT: 28.897 min Scan# 4405

Delta R.T. 0.041 min

Lab File: BM049887.D

Acq: 10 Apr 2025 16:46

Tgt Ion:276 Resp: 333461

Ion Ratio Lower Upper

276 100

277 31.1 18.7 28.1#

138 33.3 14.6 21.8#

