

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM040725\
 Data File : BM049844.D
 Acq On : 07 Apr 2025 17:59
 Operator : RC/JU
 Sample : Q1712-01DL 10X
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 Z-05ADL

Quant Time: Apr 08 00:59:40 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM031325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Mar 13 14:55:34 2025
 Response via : Initial Calibration

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

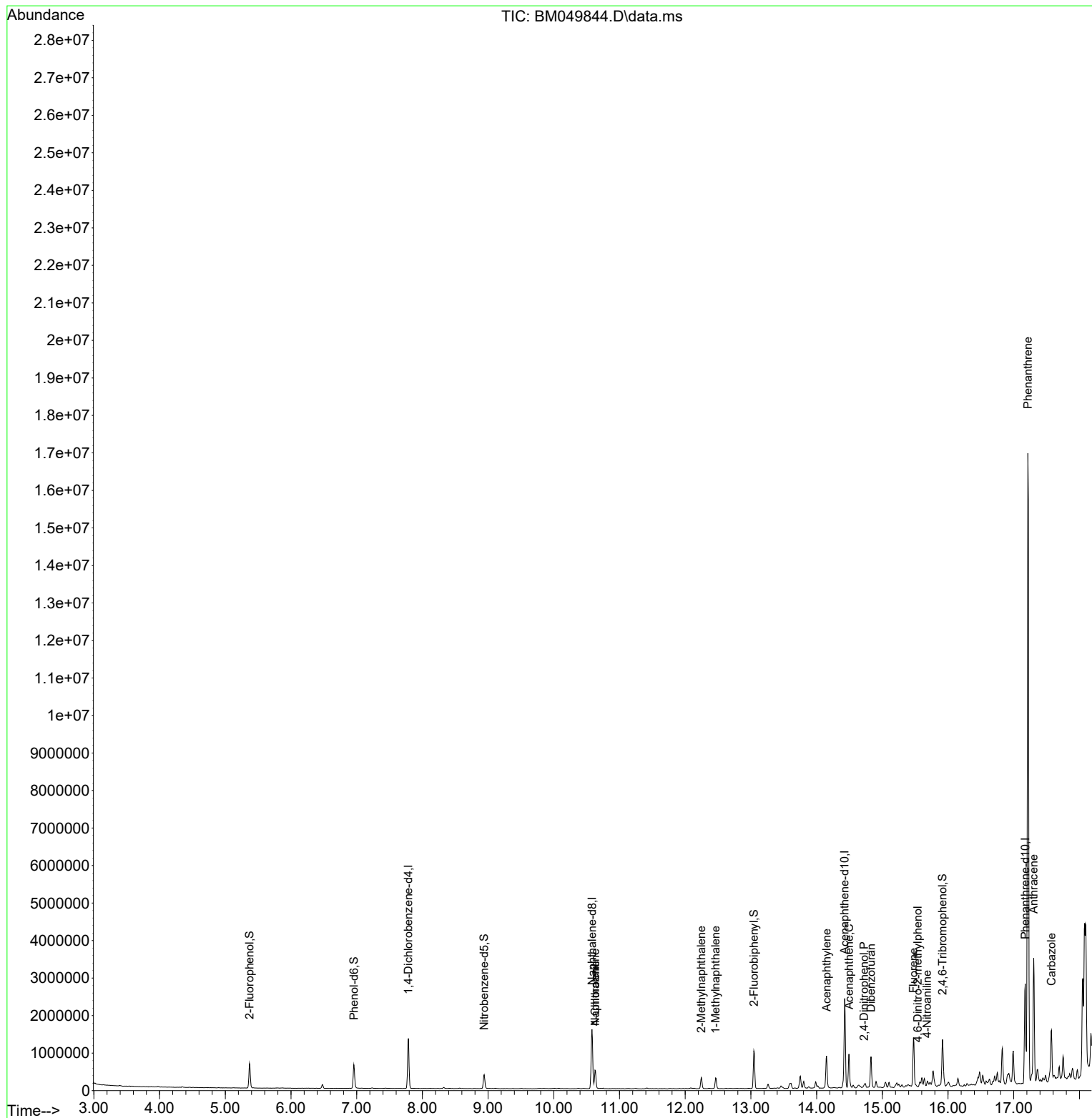
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.787	152	386545	20.000	ng	-0.02
21) Naphthalene-d8	10.581	136	1344282	20.000	ng	-0.02
39) Acenaphthene-d10	14.427	164	856031	20.000	ng	-0.02
64) Phenanthrene-d10	17.174	188	1655359	20.000	ng	-0.01
76) Chrysene-d12	21.409	240	1730289	20.000	ng	-0.02
86) Perylene-d12	24.421	264	1851772	20.000	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.369	112	311807	13.611	ng	-0.02
7) Phenol-d6	6.957	99	372662	12.962	ng	-0.02
23) Nitrobenzene-d5	8.940	82	217489	8.306	ng	-0.02
42) 2,4,6-Tribromophenol	15.916	330	178923	17.900	ng	-0.02
45) 2-Fluorobiphenyl	13.045	172	543898	7.957	ng	-0.02
79) Terphenyl-d14	19.798	244	676760	6.591	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	10.628	128	393741	5.696	ng	99
33) 4-Chloroaniline	10.628	127	49986	2.119	ng	# 34
37) 2-Methylnaphthalene	12.245	142	148624	3.075	ng	98
38) 1-Methylnaphthalene	12.463	142	140200	3.006	ng	98
49) Acenaphthylene	14.151	152	612887	8.538	ng	99
52) Acenaphthene	14.492	154	313216	6.652	ng	100
54) 2,4-Dinitrophenol	14.722	184	57	3.198	ng	# 1
55) Dibenzofuran	14.827	168	455823	5.810	ng	98
58) Fluorene	15.474	166	581693	9.106	ng	99
62) 4-Nitroaniline	15.680	138	321	3.779	ng	83
65) 4,6-Dinitro-2-methylph...	15.539	198	78	3.024	ng	# 1
71) Phenanthrene	17.215	178	10520192	114.452	ng	99
72) Anthracene	17.304	178	2069822	23.252	ng	99
73) Carbazole	17.574	167	861204	10.682	ng	100
75) Fluoranthene	19.233	202	12453164	117.677	ng	89
78) Pyrene	19.598	202	12085238	99.971	ng	# 90
81) Benzo(a)anthracene	21.398	228	6695317	57.932	ng	98
83) Chrysene	21.456	228	5949199	54.303	ng	98
87) Indeno(1,2,3-cd)pyrene	27.821	276	3161325	23.719	ng	97
88) Benzo(b)fluoranthene	23.480	252	6927085	55.540	ng	99
89) Benzo(k)fluoranthene	23.480	252	6927085	56.443	ng	98
90) Benzo(a)pyrene	24.286	252	4939613	47.150	ng	97
91) Dibenzo(a,h)anthracene	27.856	278	909553	8.191	ng	# 92
92) Benzo(g,h,i)perylene	28.879	276	2957054	26.437	ng	99

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

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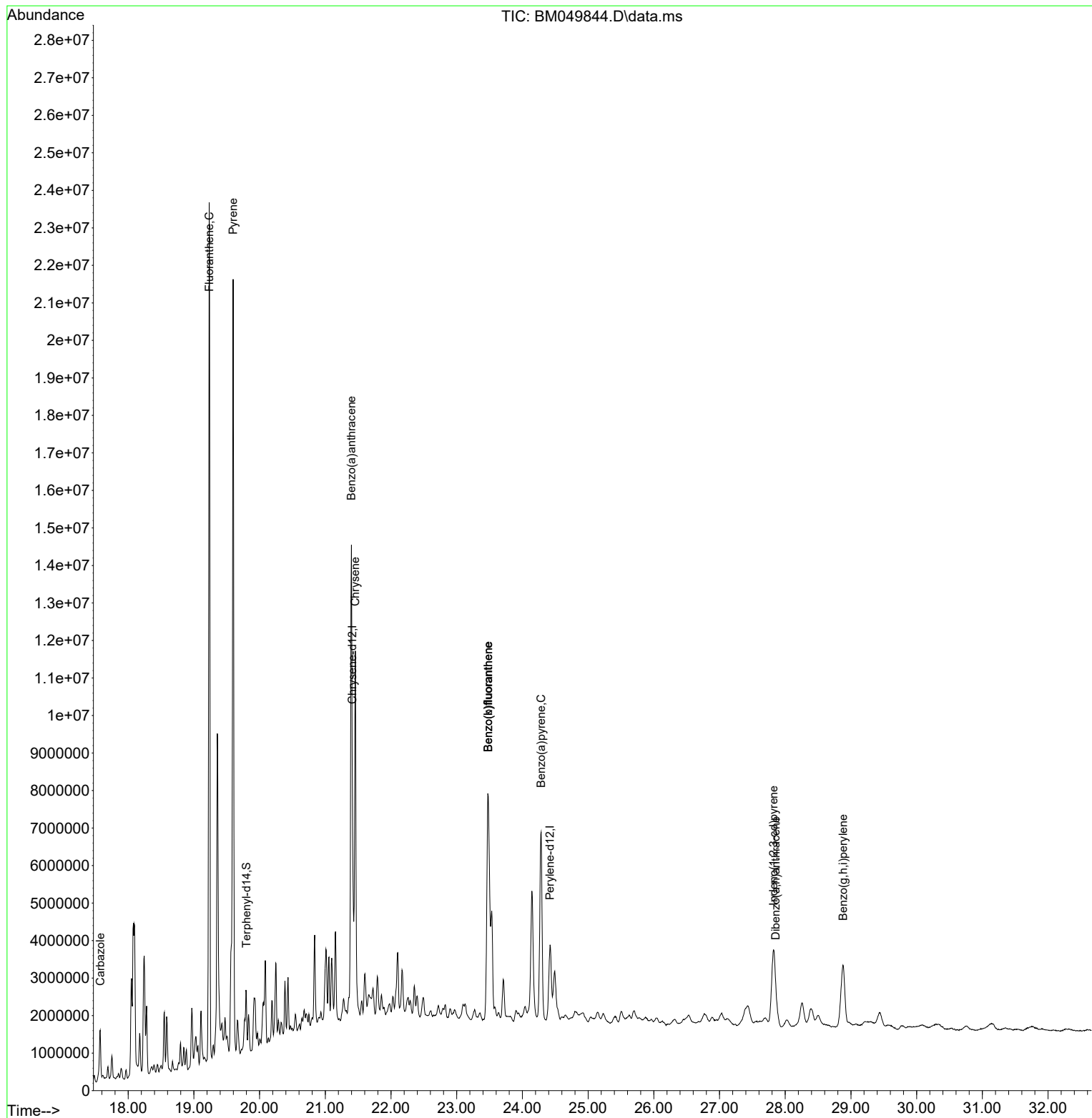
Quant Time: Apr 08 00:59:40 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM031325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Mar 13 14:55:34 2025
Response via : Initial Calibration

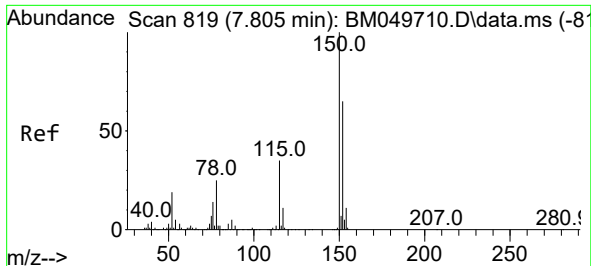


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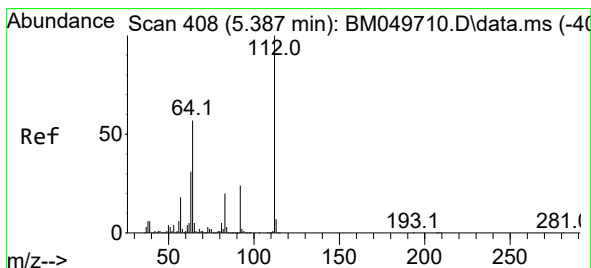
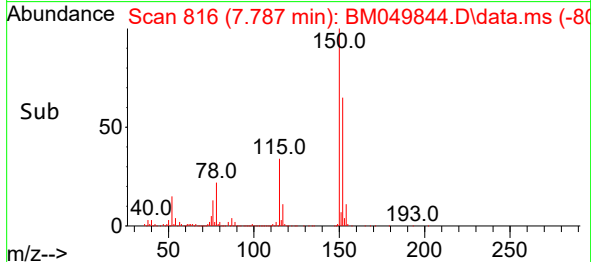
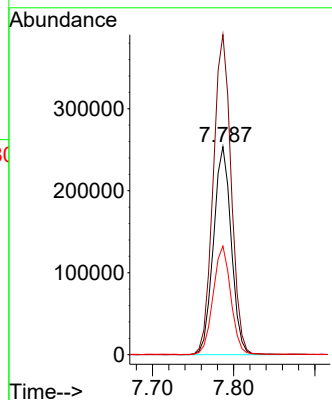
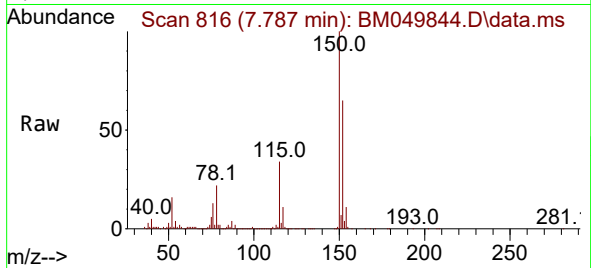




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.787 min Scan# 819
Delta R.T. -0.018 min
Lab File: BM049844.D
Acq: 07 Apr 2025 17:59

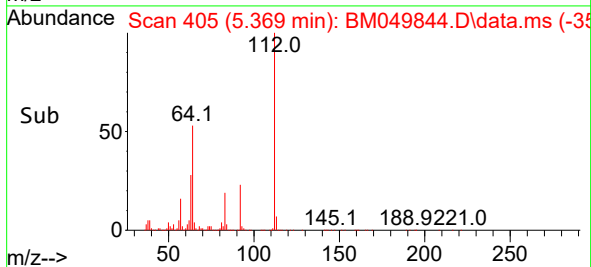
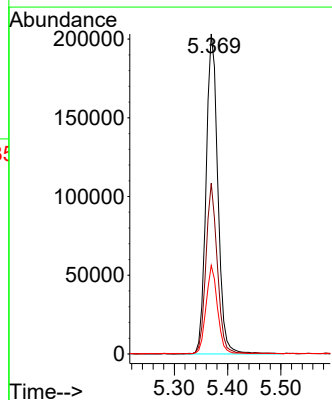
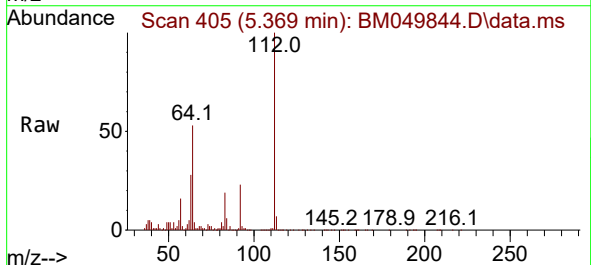
Instrument :
BNA_M
ClientSampleId :
Z-05ADL

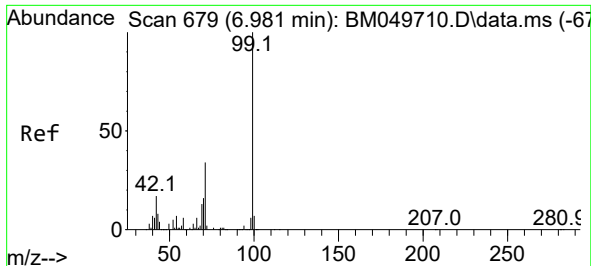
Tgt Ion:152 Resp: 386545
Ion Ratio Lower Upper
152 100
150 153.9 123.8 185.8
115 52.2 43.0 64.6



#5
2-Fluorophenol
Concen: 13.611 ng
RT: 5.369 min Scan# 405
Delta R.T. -0.018 min
Lab File: BM049844.D
Acq: 07 Apr 2025 17:59

Tgt Ion:112 Resp: 311807
Ion Ratio Lower Upper
112 100
64 53.3 45.3 67.9
63 27.6 24.4 36.6

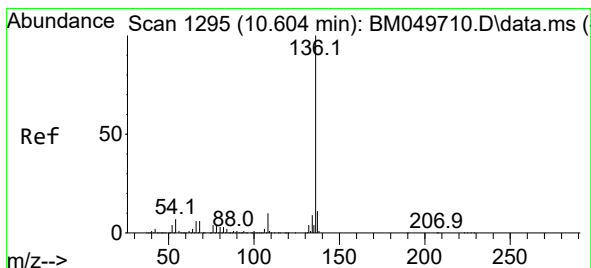
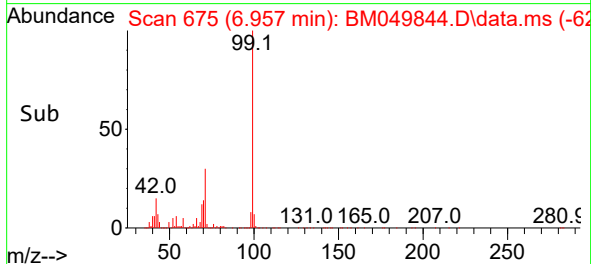
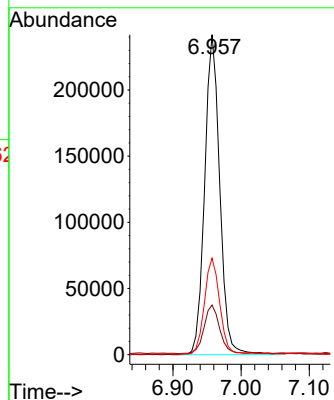
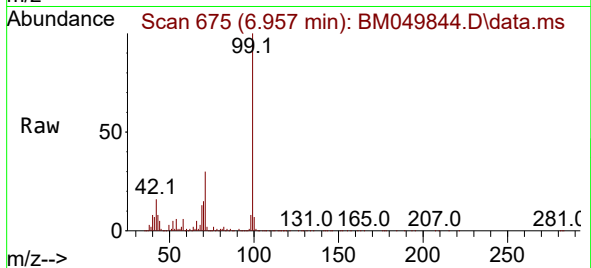




#7
Phenol-d6
Concen: 12.962 ng
RT: 6.957 min Scan# 61
Delta R.T. -0.024 min
Lab File: BM049844.D
Acq: 07 Apr 2025 17:59

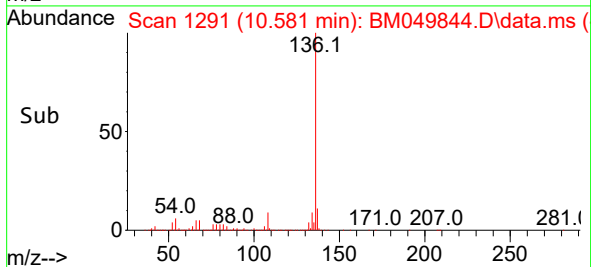
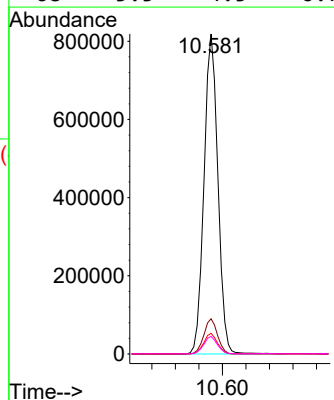
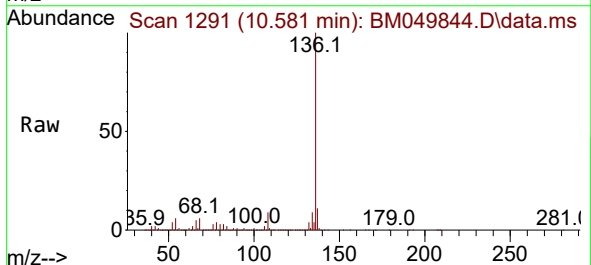
Instrument :
BNA_M
ClientSampleId :
Z-05ADL

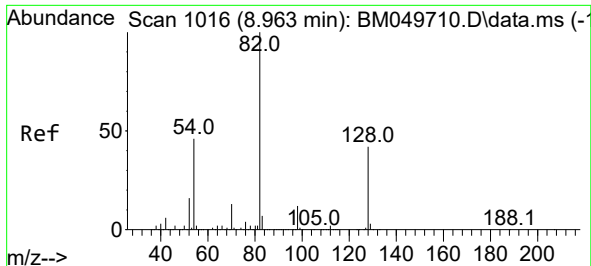
Tgt Ion: 99 Resp: 372662
Ion Ratio Lower Upper
99 100
42 15.5 13.6 20.4
71 30.1 27.0 40.6



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.581 min Scan# 1291
Delta R.T. -0.024 min
Lab File: BM049844.D
Acq: 07 Apr 2025 17:59

Tgt Ion: 136 Resp: 1344282
Ion Ratio Lower Upper
136 100
137 11.0 8.6 12.8
54 6.5 5.8 8.8
68 5.5 4.5 6.7





#23

Nitrobenzene-d5

Concen: 8.306 ng

RT: 8.940 min Scan# 1

Delta R.T. -0.024 min

Lab File: BM049844.D

Acq: 07 Apr 2025 17:59

Instrument :

BNA_M

ClientSampleId :

Z-05ADL

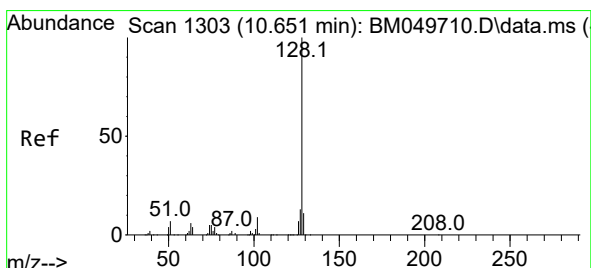
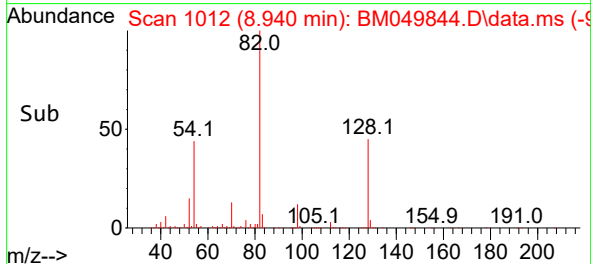
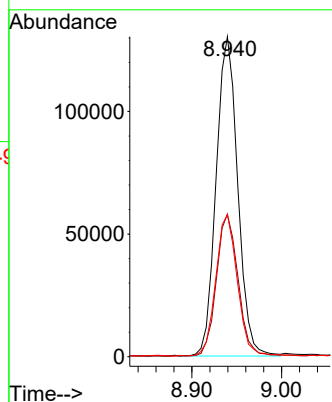
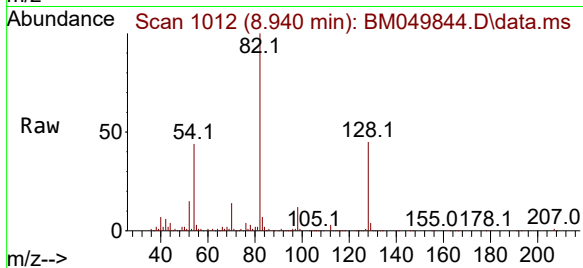
Tgt Ion: 82 Resp: 217489

Ion Ratio Lower Upper

82 100

128 44.6 33.4 50.0

54 44.4 36.4 54.6



#31

Naphthalene

Concen: 5.696 ng

RT: 10.628 min Scan# 1299

Delta R.T. -0.024 min

Lab File: BM049844.D

Acq: 07 Apr 2025 17:59

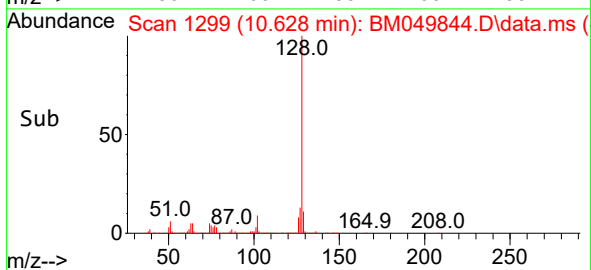
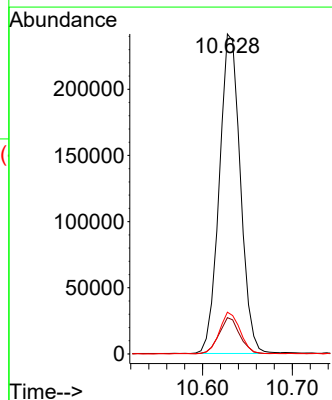
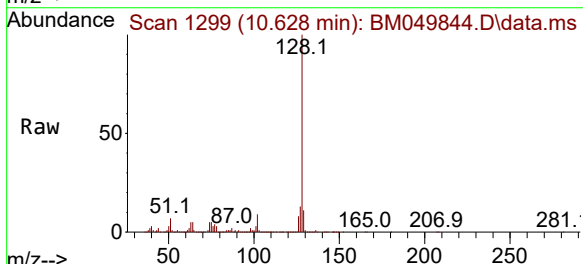
Tgt Ion: 128 Resp: 393741

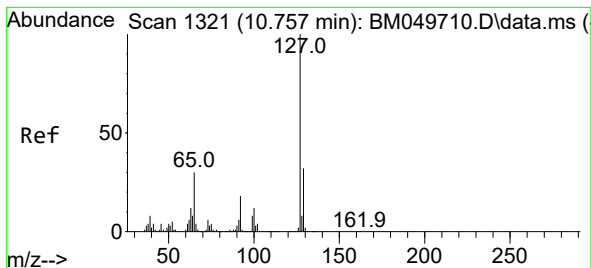
Ion Ratio Lower Upper

128 100

129 11.4 8.6 13.0

127 13.0 10.4 15.6

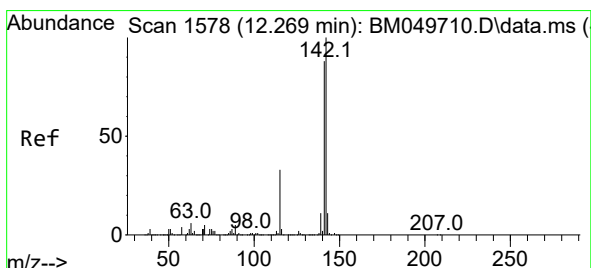
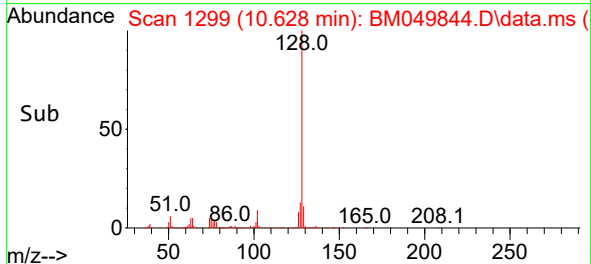
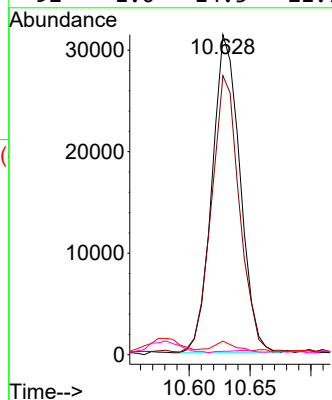
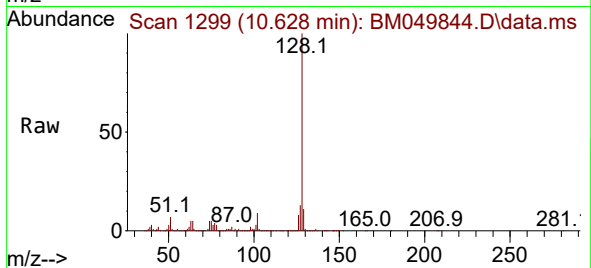




#33
4-Chloroaniline
Concen: 2.119 ng
RT: 10.628 min Scan# 11
Delta R.T. -0.130 min
Lab File: BM049844.D
Acq: 07 Apr 2025 17:59

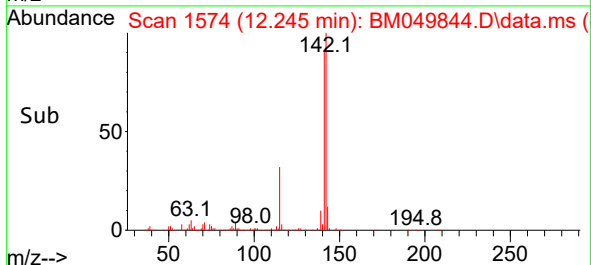
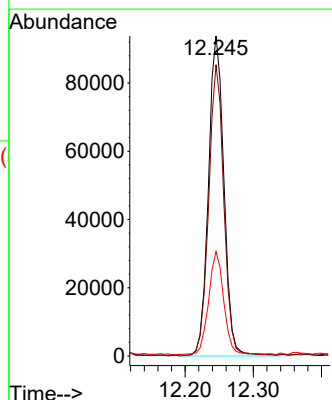
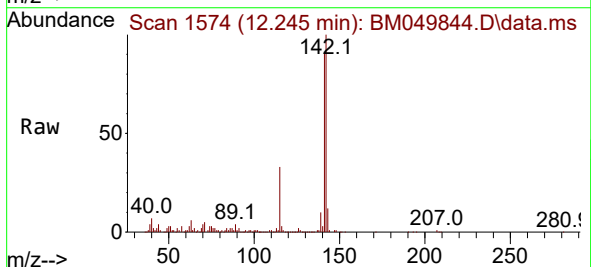
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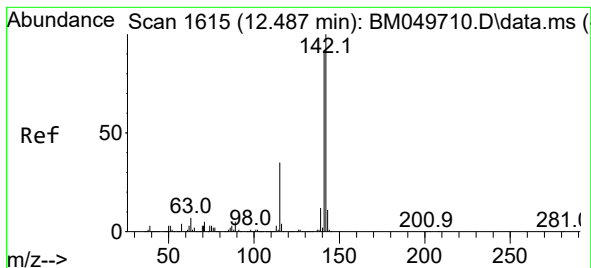
Tgt Ion:127	Resp:	49986
Ion Ratio	Lower	Upper
127	100	
129	87.2	25.7 38.5#
65	4.2	24.1 36.1#
92	1.0	14.5 21.7#



#37
2-Methylnaphthalene
Concen: 3.075 ng
RT: 12.245 min Scan# 1574
Delta R.T. -0.024 min
Lab File: BM049844.D
Acq: 07 Apr 2025 17:59

Tgt Ion:142	Resp:	148624
Ion Ratio	Lower	Upper
142	100	
141	91.0	70.5 105.7
115	32.7	26.5 39.7





#38

1-Methylnaphthalene

Concen: 3.006 ng

RT: 12.463 min Scan# 1

Delta R.T. -0.024 min

Lab File: BM049844.D

Acq: 07 Apr 2025 17:59

Instrument :

BNA_M

ClientSampleId :

Z-05ADL

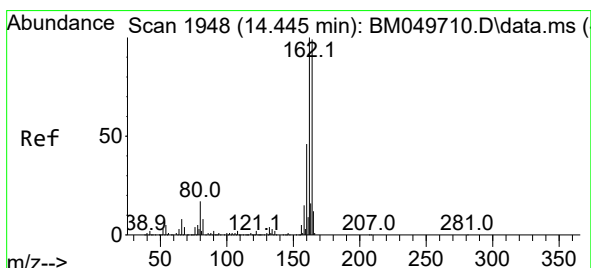
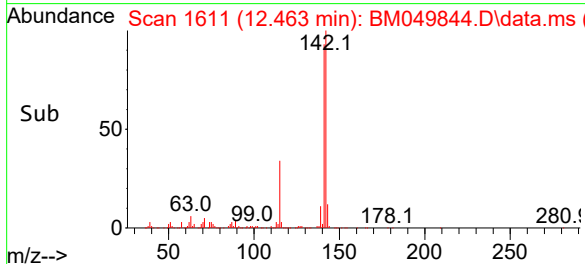
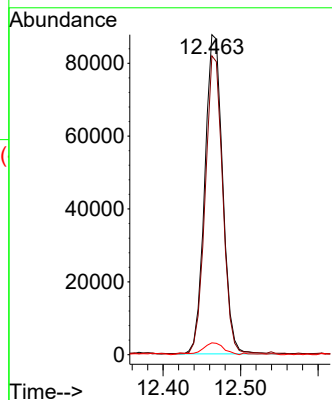
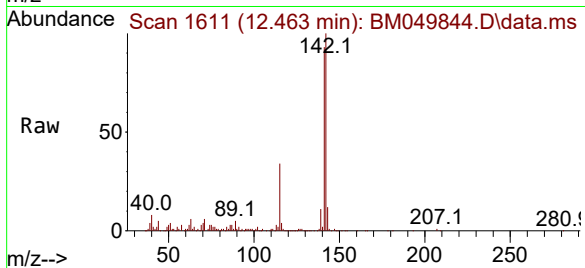
Tgt Ion:142 Resp: 140200

Ion Ratio Lower Upper

142 100

141 93.4 73.4 110.2

116 3.7 2.8 4.2



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.427 min Scan# 1945

Delta R.T. -0.018 min

Lab File: BM049844.D

Acq: 07 Apr 2025 17:59

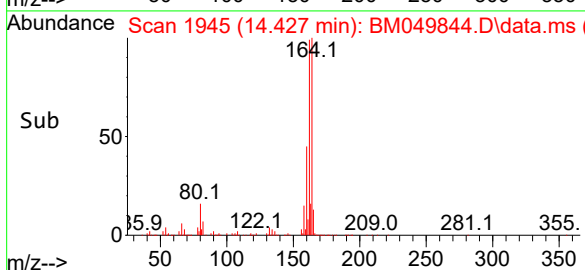
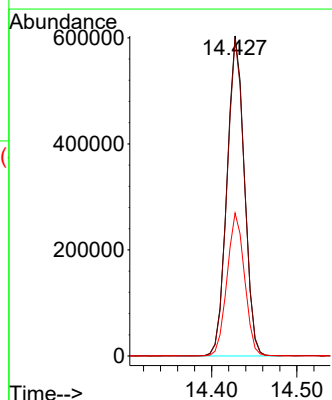
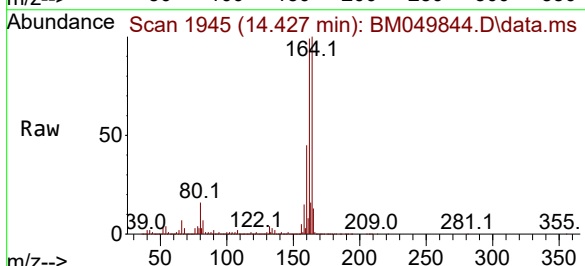
Tgt Ion:164 Resp: 856031

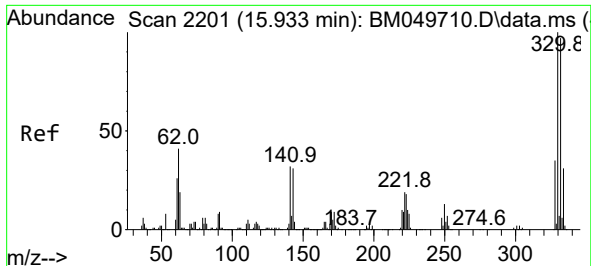
Ion Ratio Lower Upper

164 100

162 99.1 80.5 120.7

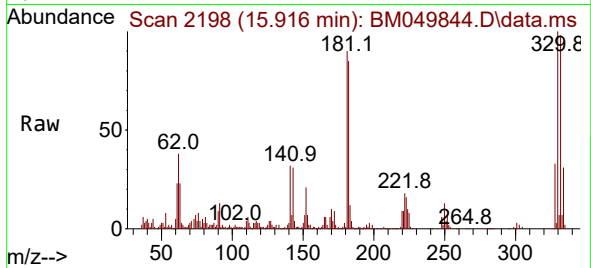
160 44.7 36.9 55.3



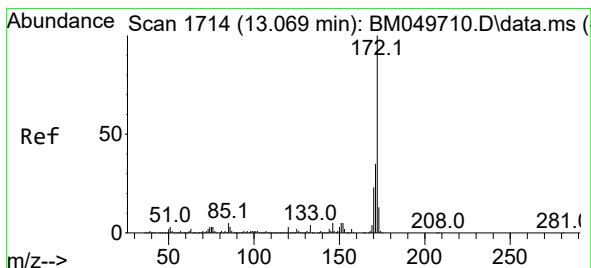
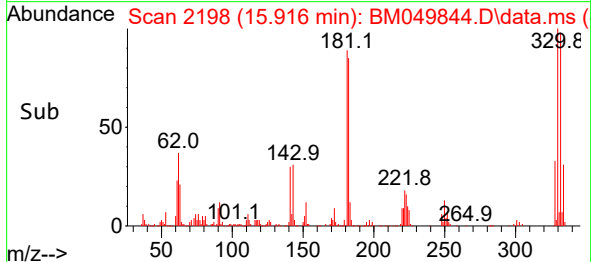
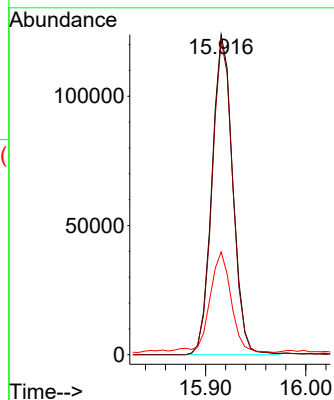


#42
2,4,6-Tribromophenol
Concen: 17.900 ng
RT: 15.916 min Scan# 21
Delta R.T. -0.017 min
Lab File: BM049844.D
Acq: 07 Apr 2025 17:59

Instrument :
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Z-05ADL

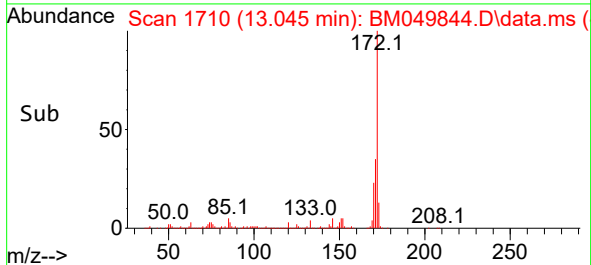
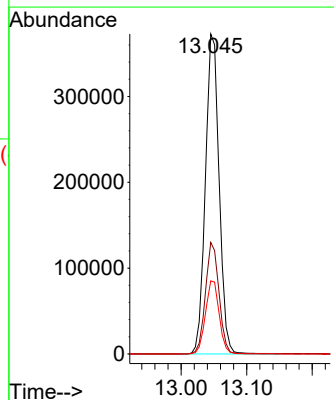
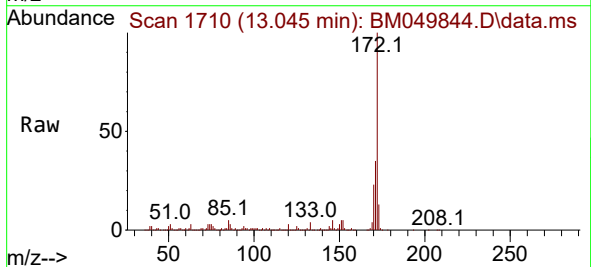


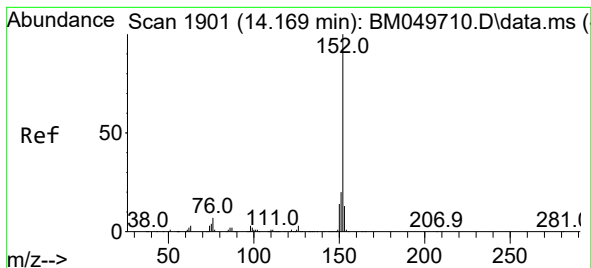
Tgt Ion:330 Resp: 178923
Ion Ratio Lower Upper
330 100
332 97.5 77.0 115.4
141 33.3 27.8 41.6



#45
2-Fluorobiphenyl
Concen: 7.957 ng
RT: 13.045 min Scan# 1710
Delta R.T. -0.024 min
Lab File: BM049844.D
Acq: 07 Apr 2025 17:59

Tgt Ion:172 Resp: 543898
Ion Ratio Lower Upper
172 100
171 34.9 27.9 41.9
170 22.8 18.6 28.0





#49

Acenaphthylene

Concen: 8.538 ng

RT: 14.151 min Scan# 1

Delta R.T. -0.018 min

Lab File: BM049844.D

Acq: 07 Apr 2025 17:59

Instrument :

BNA_M

ClientSampleId :

Z-05ADL

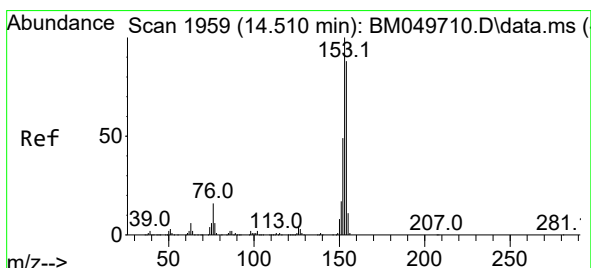
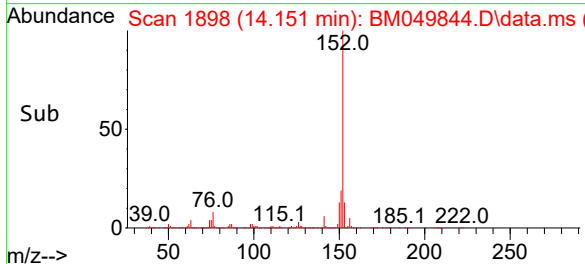
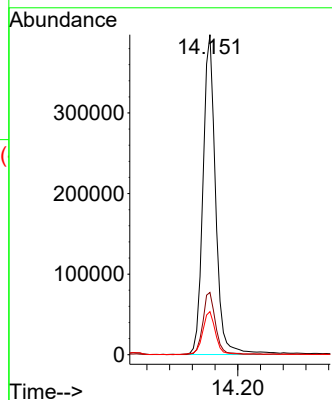
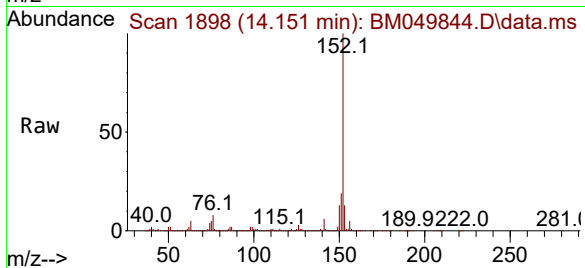
Tgt Ion:152 Resp: 612887

Ion Ratio Lower Upper

152 100

151 19.4 15.8 23.8

153 13.4 10.2 15.4



#52

Acenaphthene

Concen: 6.652 ng

RT: 14.492 min Scan# 1956

Delta R.T. -0.018 min

Lab File: BM049844.D

Acq: 07 Apr 2025 17:59

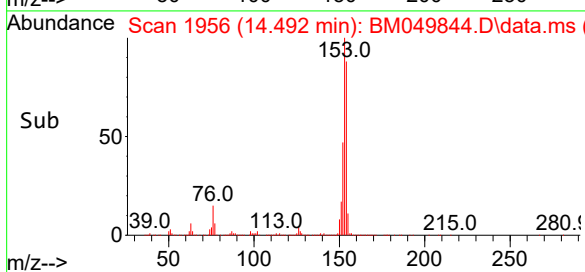
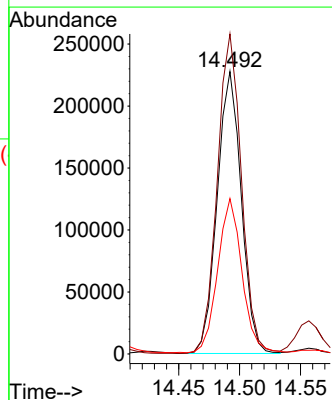
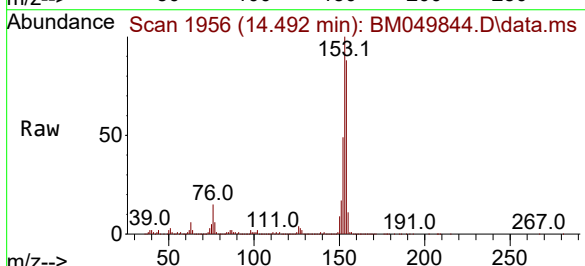
Tgt Ion:154 Resp: 313216

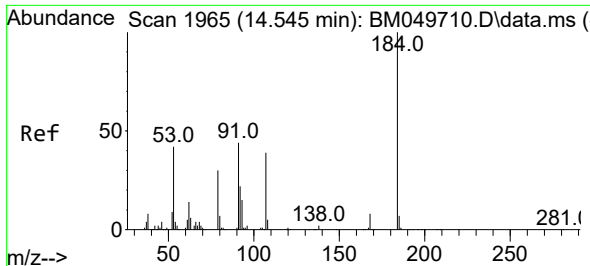
Ion Ratio Lower Upper

154 100

153 113.3 90.4 135.6

152 55.0 44.2 66.2

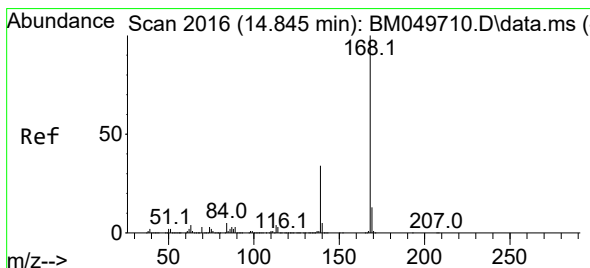
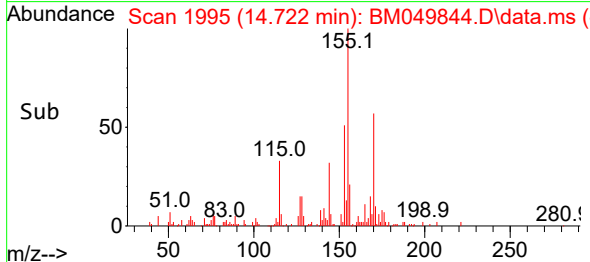
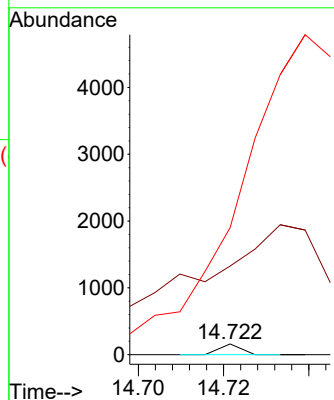
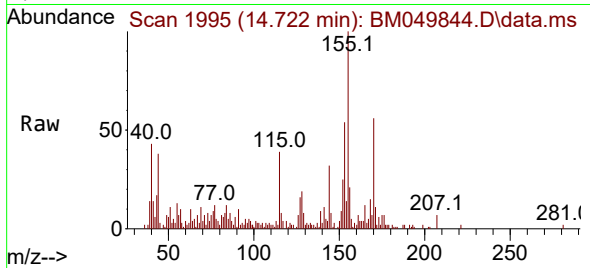




#54
2,4-Dinitrophenol
Concen: 3.198 ng
RT: 14.722 min Scan# 1965
Delta R.T. 0.177 min
Lab File: BM049844.D
Acq: 07 Apr 2025 17:59

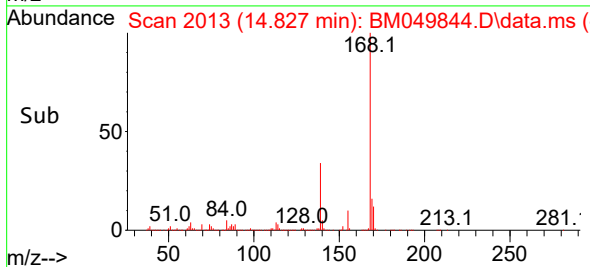
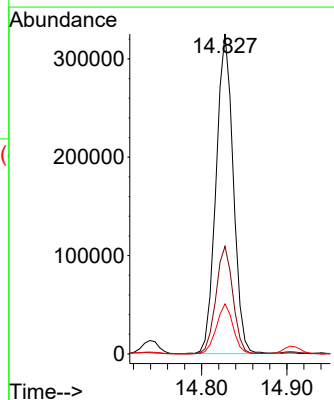
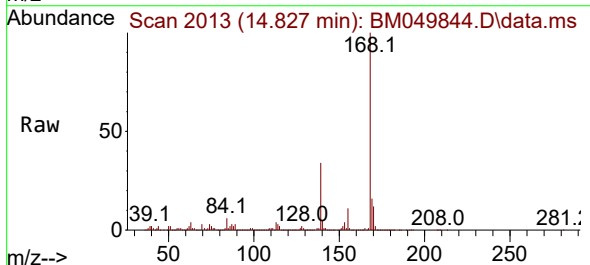
Instrument :
BNA_M
ClientSampleId :
Z-05ADL

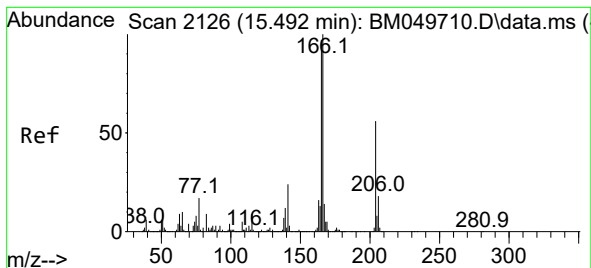
Tgt Ion:184 Resp: 57
Ion Ratio Lower Upper
184 100
63 823.6 47.2 70.8#
154 1180.1 49.9 74.9#



#55
Dibenzofuran
Concen: 5.810 ng
RT: 14.827 min Scan# 2013
Delta R.T. -0.018 min
Lab File: BM049844.D
Acq: 07 Apr 2025 17:59

Tgt Ion:168 Resp: 455823
Ion Ratio Lower Upper
168 100
139 33.7 27.4 41.0
169 15.6 10.7 16.1





#58

Fluorene

Concen: 9.106 ng

RT: 15.474 min Scan# 2126

Delta R.T. -0.018 min

Lab File: BM049844.D

Acq: 07 Apr 2025 17:59

Instrument :

BNA_M

ClientSampleId :

Z-05ADL

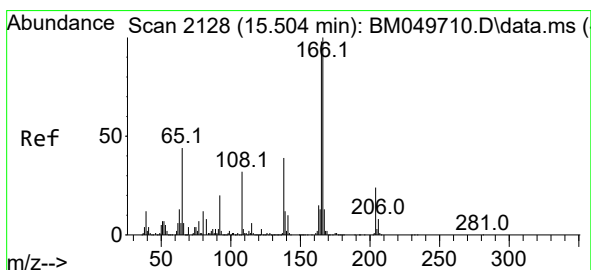
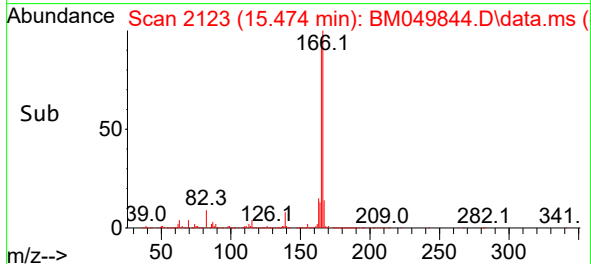
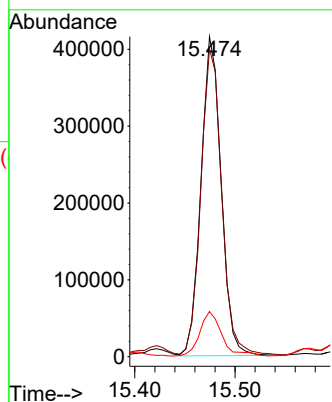
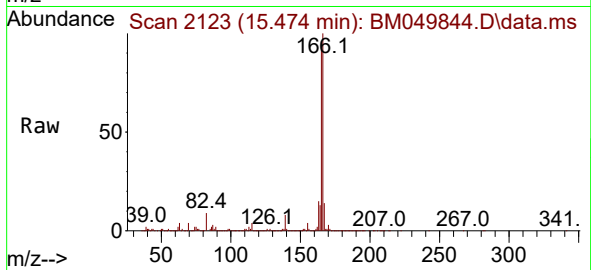
Tgt Ion:166 Resp: 581693

Ion Ratio Lower Upper

166 100

165 96.2 77.5 116.3

167 14.1 10.9 16.3



#62

4-Nitroaniline

Concen: 3.779 ng

RT: 15.680 min Scan# 2158

Delta R.T. 0.176 min

Lab File: BM049844.D

Acq: 07 Apr 2025 17:59

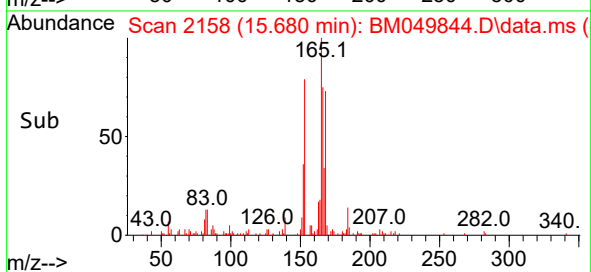
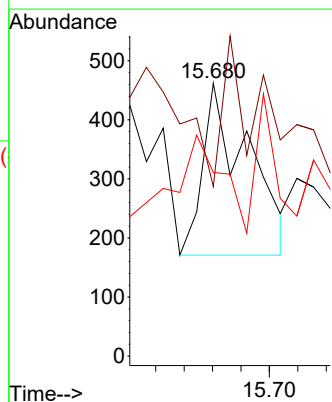
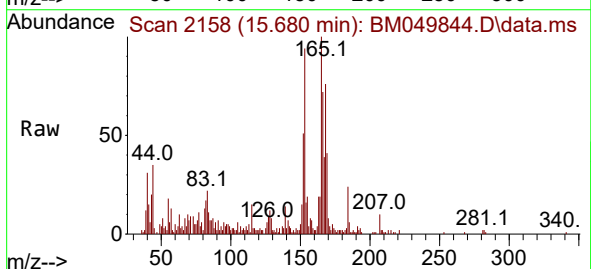
Tgt Ion:138 Resp: 321

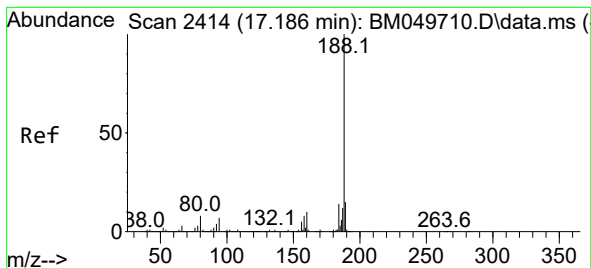
Ion Ratio Lower Upper

138 100

92 62.1 29.8 69.8

108 67.3 61.3 101.3





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.174 min Scan# 2414

Delta R.T. -0.012 min

Lab File: BM049844.D

Acq: 07 Apr 2025 17:59

Instrument :

BNA_M

ClientSampleId :

Z-05ADL

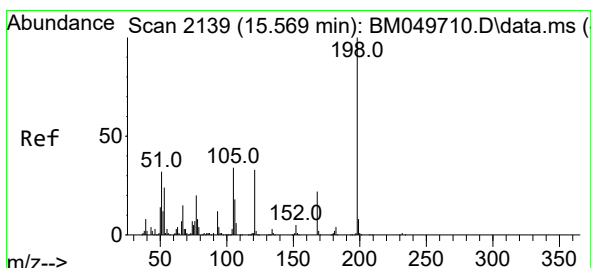
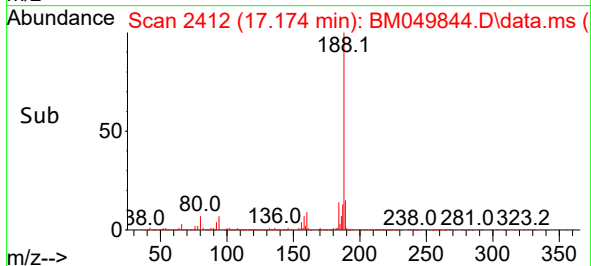
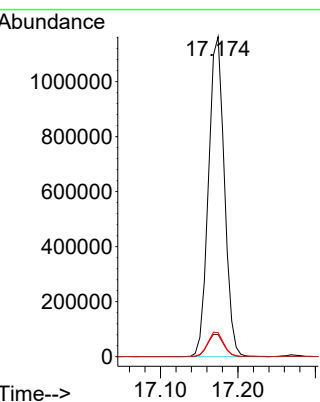
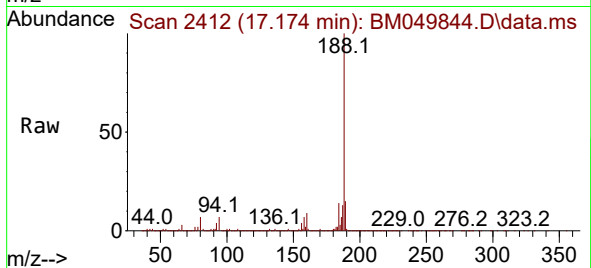
Tgt Ion:188 Resp: 1655359

Ion Ratio Lower Upper

188 100

94 6.9 5.8 8.6

80 7.5 6.3 9.5



#65

4,6-Dinitro-2-methylphenol

Concen: 3.024 ng

RT: 15.539 min Scan# 2134

Delta R.T. -0.030 min

Lab File: BM049844.D

Acq: 07 Apr 2025 17:59

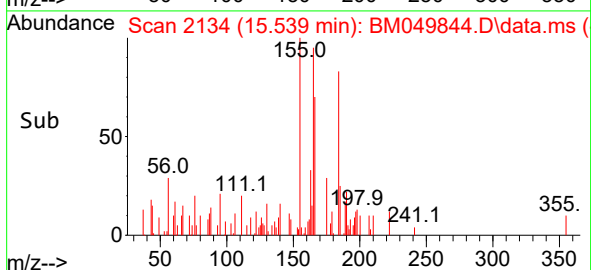
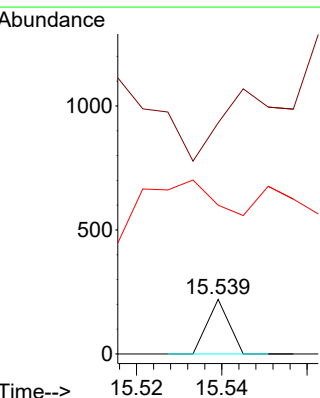
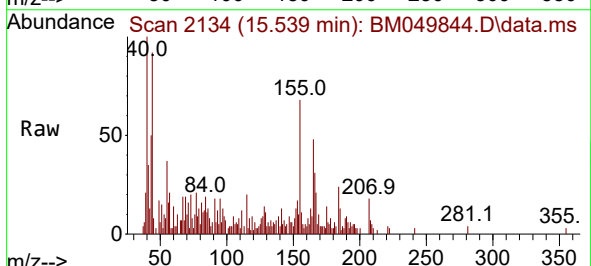
Tgt Ion:198 Resp: 78

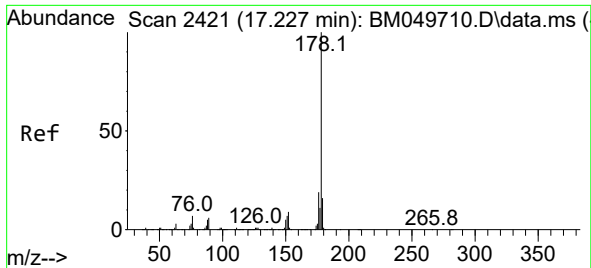
Ion Ratio Lower Upper

198 100

51 423.2 13.8 53.8#

105 272.7 14.0 54.0#

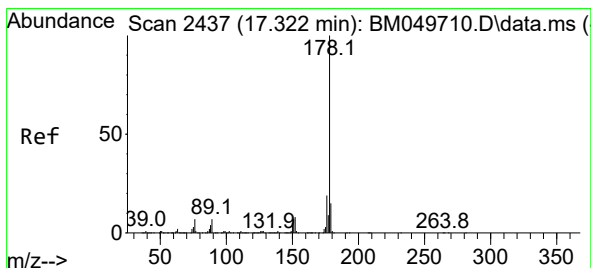
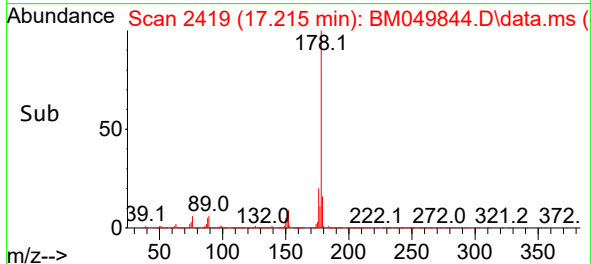
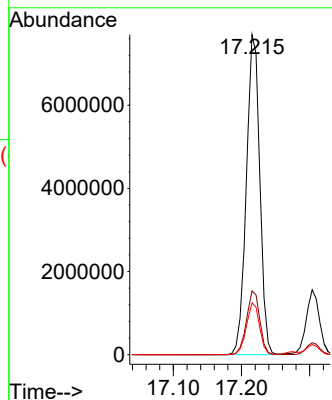
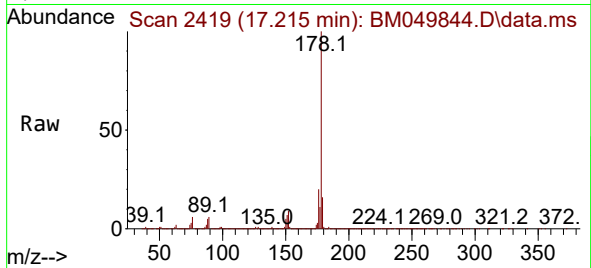




#71
Phenanthrene
Concen: 114.452 ng
RT: 17.215 min Scan# 2419
Delta R.T. -0.012 min
Lab File: BM049844.D
Acq: 07 Apr 2025 17:59

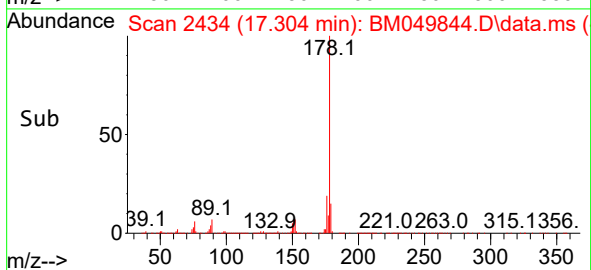
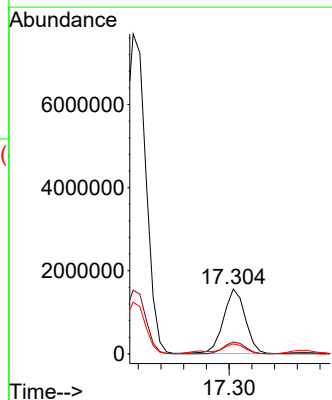
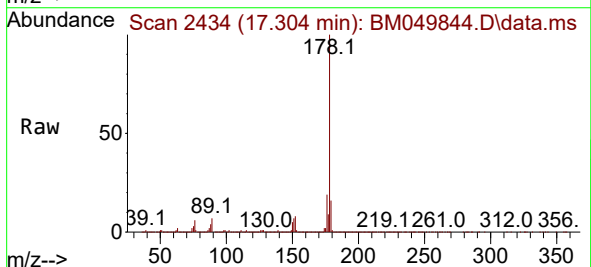
Instrument :
BNA_M
ClientSampleId :
Z-05ADL

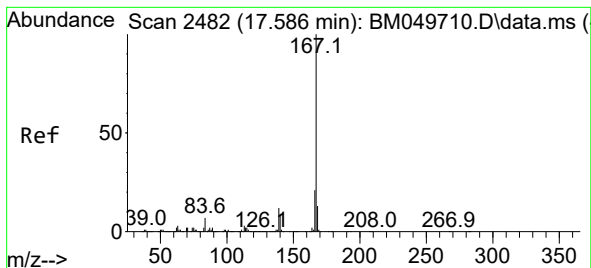
Tgt Ion:178 Resp:10520192
Ion Ratio Lower Upper
178 100
176 19.9 15.5 23.3
179 16.2 12.5 18.7



#72
Anthracene
Concen: 23.252 ng
RT: 17.304 min Scan# 2434
Delta R.T. -0.018 min
Lab File: BM049844.D
Acq: 07 Apr 2025 17:59

Tgt Ion:178 Resp: 2069822
Ion Ratio Lower Upper
178 100
176 18.6 15.1 22.7
179 15.6 12.4 18.6





#73

Carbazole

Concen: 10.682 ng

RT: 17.574 min Scan# 24

Delta R.T. -0.012 min

Lab File: BM049844.D

Acq: 07 Apr 2025 17:59

Instrument :

BNA_M

ClientSampleId :

Z-05ADL

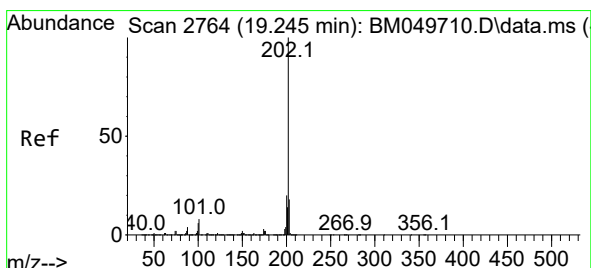
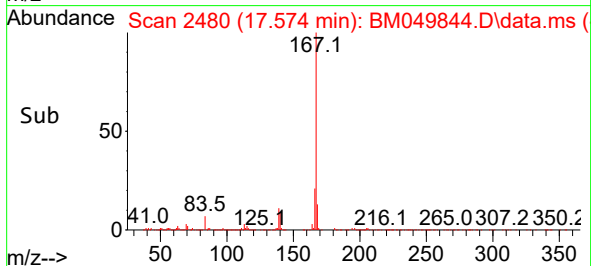
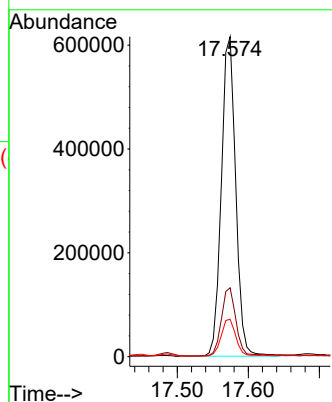
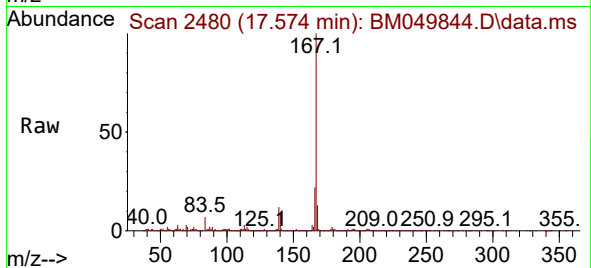
Tgt Ion:167 Resp: 861204

Ion Ratio Lower Upper

167 100

166 21.6 17.0 25.6

139 11.7 9.4 14.2



#75

Fluoranthene

Concen: 117.677 ng

RT: 19.233 min Scan# 2762

Delta R.T. -0.012 min

Lab File: BM049844.D

Acq: 07 Apr 2025 17:59

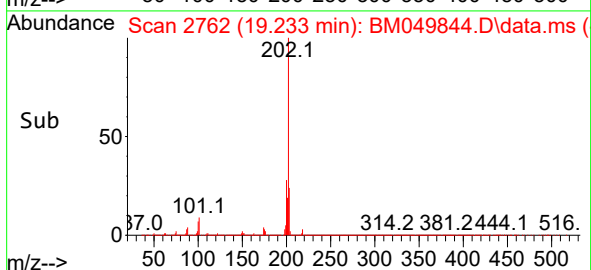
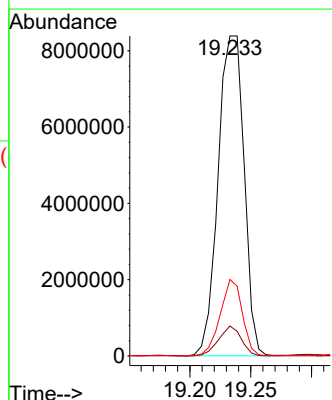
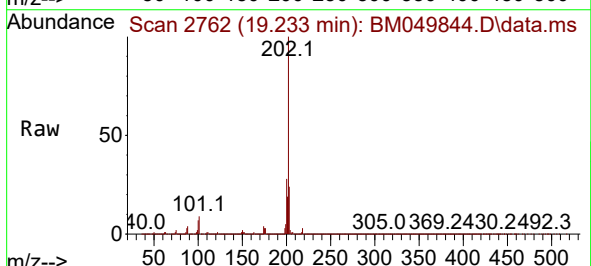
Tgt Ion:202 Resp:12453164

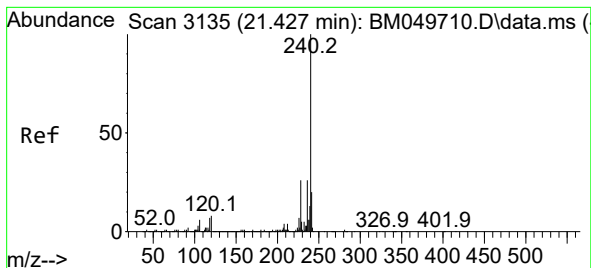
Ion Ratio Lower Upper

202 100

101 9.4 0.0 27.8

203 23.9 0.0 37.6





#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.409 min Scan# 31

Delta R.T. -0.018 min

Lab File: BM049844.D

Acq: 07 Apr 2025 17:59

Instrument :

BNA_M

ClientSampleId :

Z-05ADL

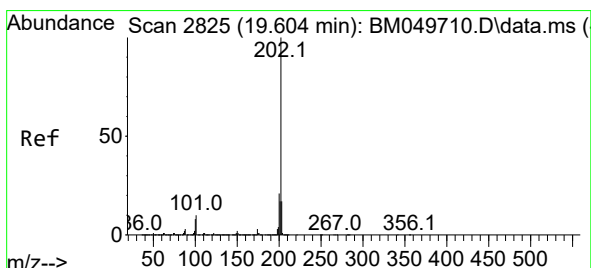
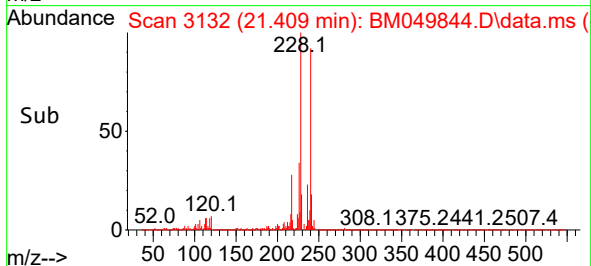
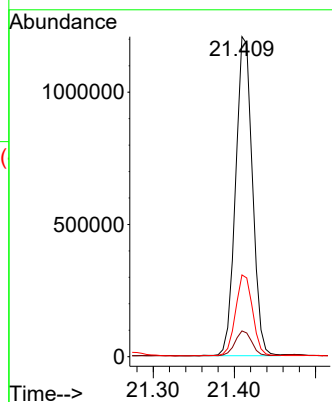
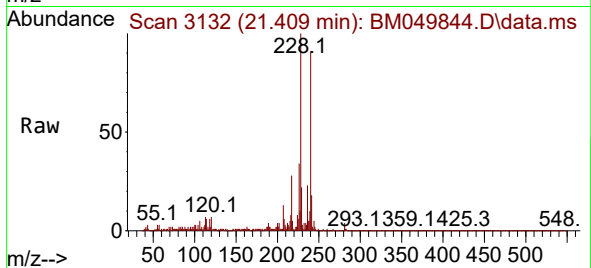
Tgt Ion:240 Resp: 1730289

Ion Ratio Lower Upper

240 100

120 8.1 6.5 9.7

236 25.6 20.7 31.1



#78

Pyrene

Concen: 99.971 ng

RT: 19.598 min Scan# 2824

Delta R.T. -0.006 min

Lab File: BM049844.D

Acq: 07 Apr 2025 17:59

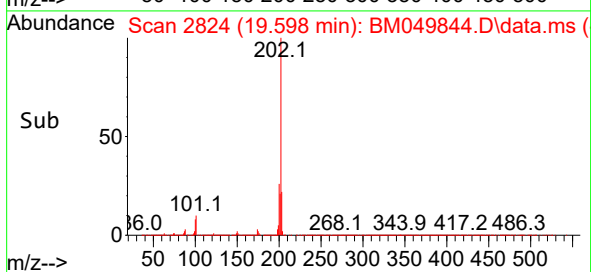
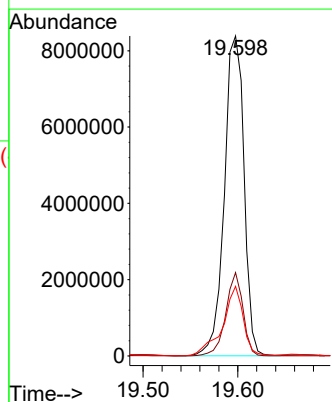
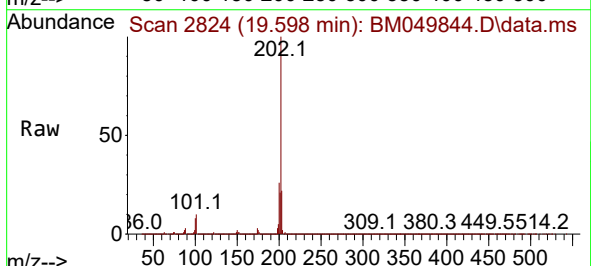
Tgt Ion:202 Resp:12085238

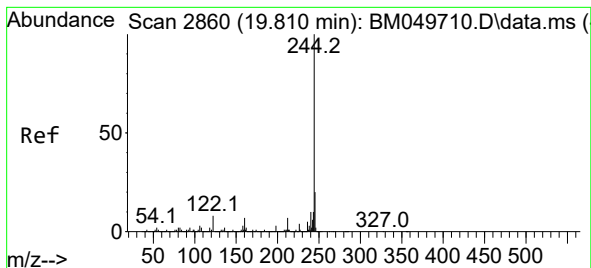
Ion Ratio Lower Upper

202 100

200 26.1 17.0 25.4#

203 21.8 14.0 21.0#





#79

Terphenyl-d14

Concen: 6.591 ng

RT: 19.798 min Scan# 21

Delta R.T. -0.012 min

Lab File: BM049844.D

Acq: 07 Apr 2025 17:59

Instrument :

BNA_M

ClientSampleId :

Z-05ADL

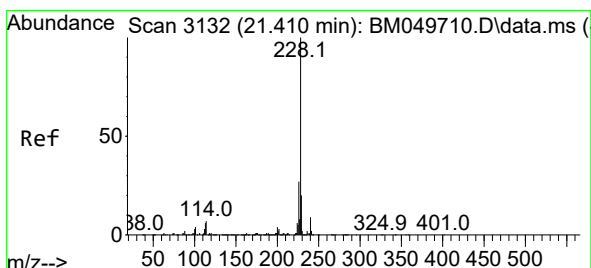
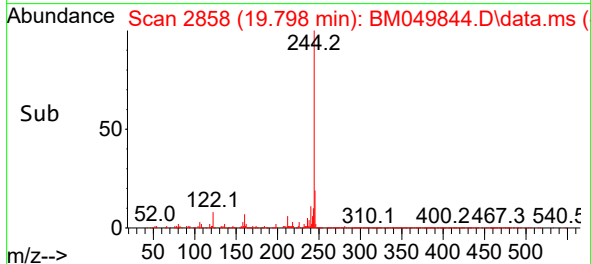
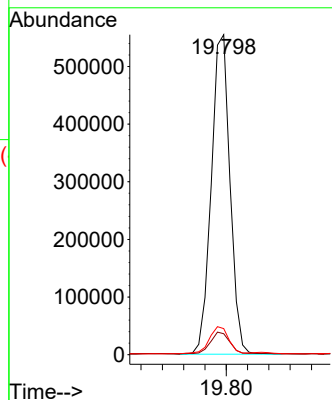
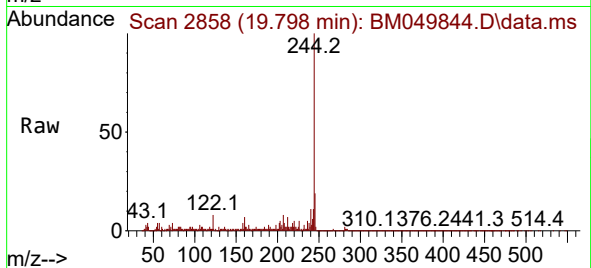
Tgt Ion:244 Resp: 676760

Ion Ratio Lower Upper

244 100

212 6.6 5.8 8.6

122 8.2 6.0 9.0



#81

Benzo(a)anthracene

Concen: 57.932 ng

RT: 21.398 min Scan# 3130

Delta R.T. -0.012 min

Lab File: BM049844.D

Acq: 07 Apr 2025 17:59

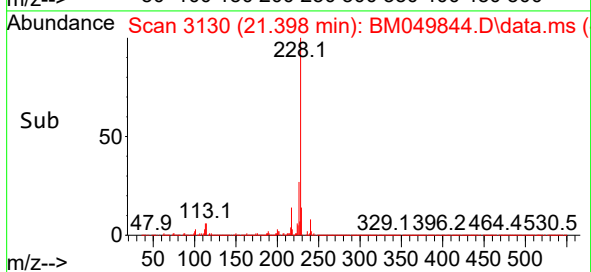
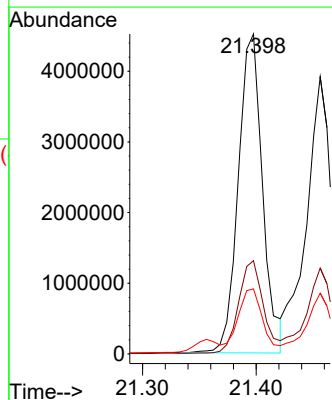
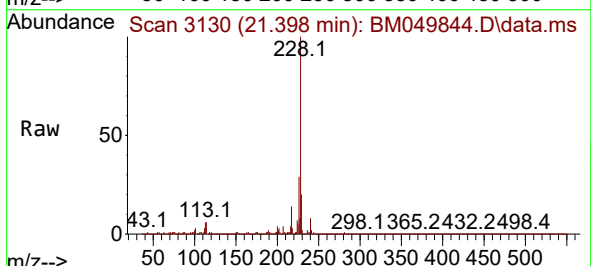
Tgt Ion:228 Resp: 6695317

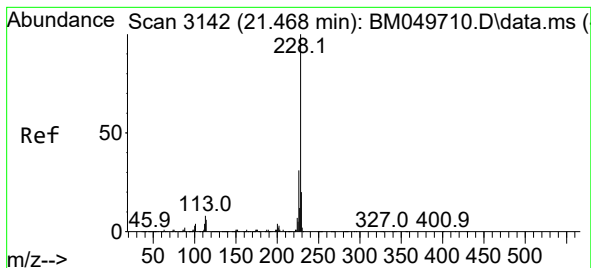
Ion Ratio Lower Upper

228 100

226 29.2 22.0 33.0

229 20.4 15.8 23.8





#83

Chrysene

Concen: 54.303 ng

RT: 21.456 min Scan# 31

Delta R.T. -0.012 min

Lab File: BM049844.D

Acq: 07 Apr 2025 17:59

Instrument :

BNA_M

ClientSampleId :

Z-05ADL

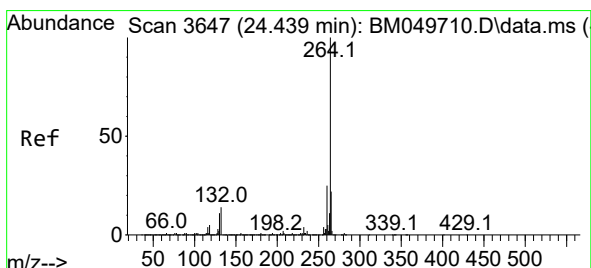
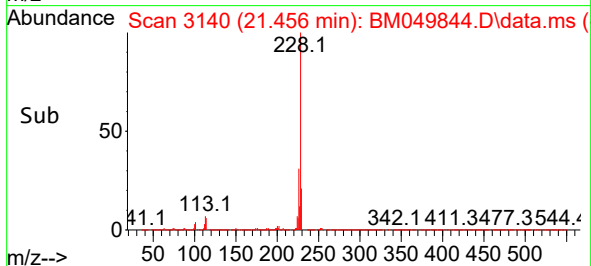
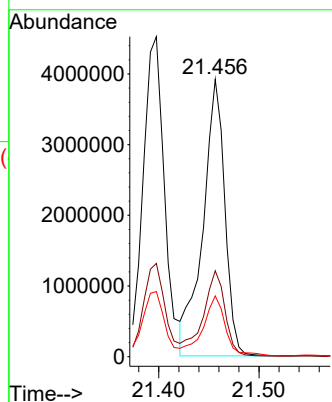
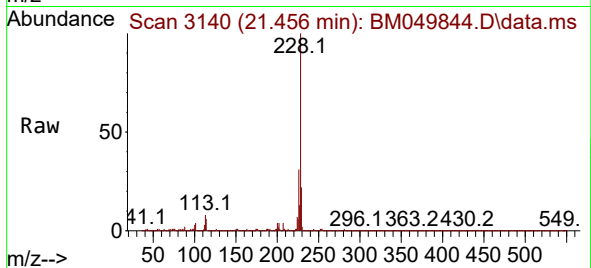
Tgt Ion:228 Resp: 5949199

Ion Ratio Lower Upper

228 100

226 31.0 24.5 36.7

229 21.9 15.8 23.6



#86

Perylene-d12

Concen: 20.000 ng

RT: 24.421 min Scan# 3644

Delta R.T. -0.018 min

Lab File: BM049844.D

Acq: 07 Apr 2025 17:59

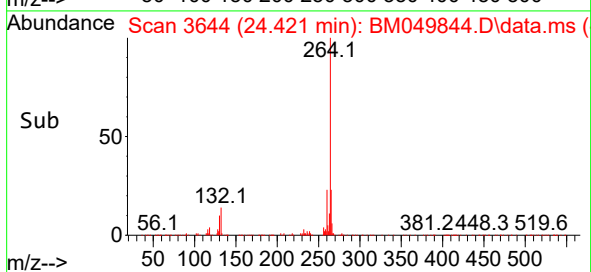
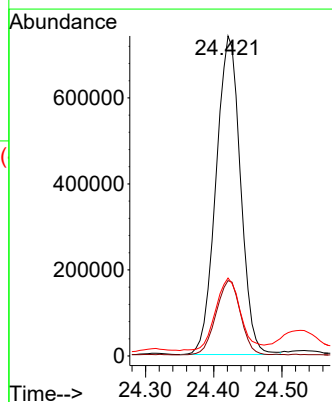
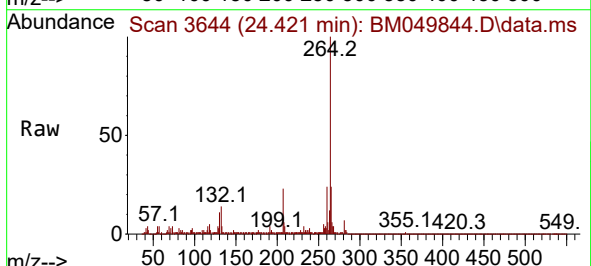
Tgt Ion:264 Resp: 1851772

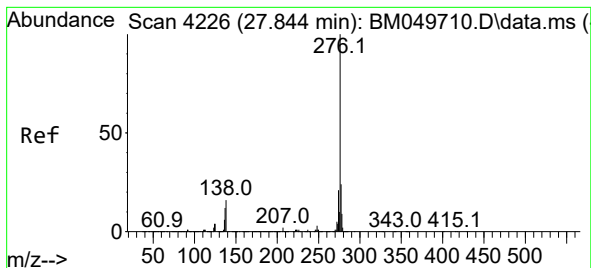
Ion Ratio Lower Upper

264 100

260 23.6 19.6 29.4

265 24.4 18.2 27.2





#87

Indeno(1,2,3-cd)pyrene

Concen: 23.719 ng

RT: 27.821 min Scan# 41

Delta R.T. -0.024 min

Lab File: BM049844.D

Acq: 07 Apr 2025 17:59

Instrument :

BNA_M

ClientSampleId :

Z-05ADL

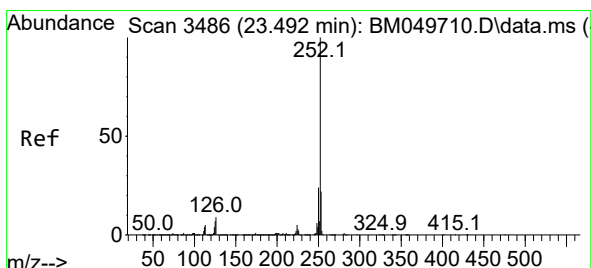
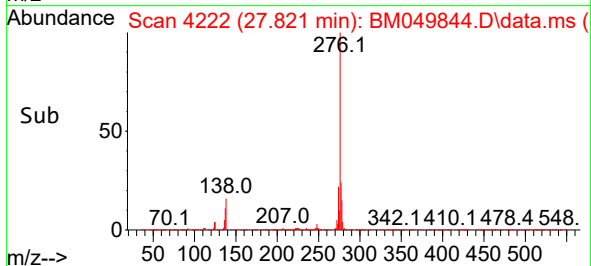
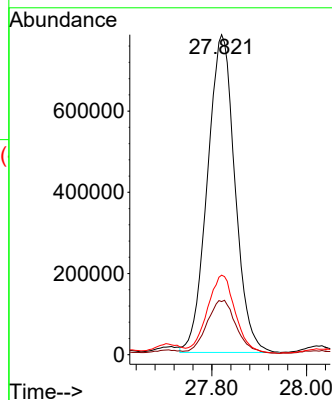
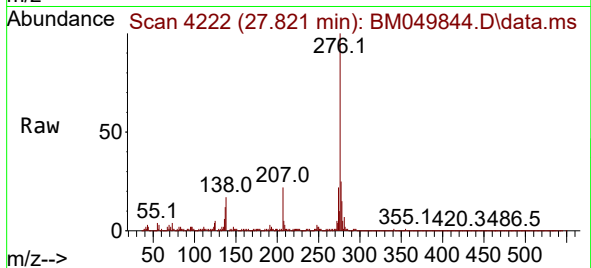
Tgt Ion:276 Resp: 3161325

Ion Ratio Lower Upper

276 100

138 17.8 16.3 24.5

277 25.0 19.9 29.9



#88

Benzo(b)fluoranthene

Concen: 55.540 ng

RT: 23.480 min Scan# 3484

Delta R.T. -0.012 min

Lab File: BM049844.D

Acq: 07 Apr 2025 17:59

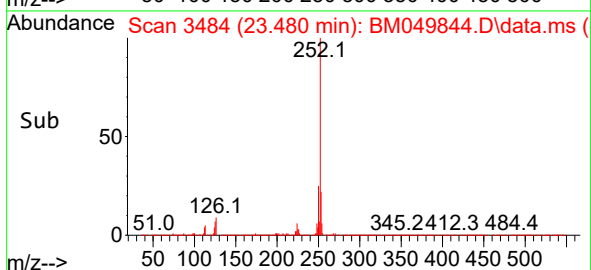
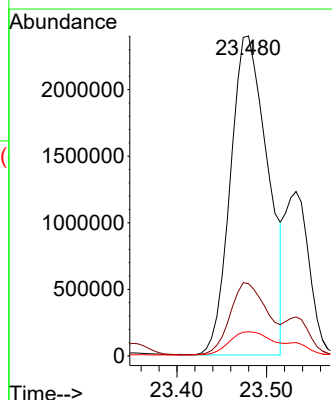
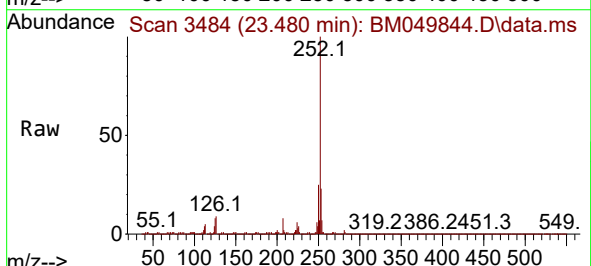
Tgt Ion:252 Resp: 6927085

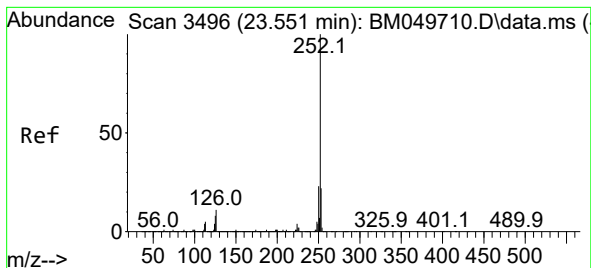
Ion Ratio Lower Upper

252 100

253 22.6 17.4 26.0

125 7.5 5.9 8.9





#89

Benzo(k)fluoranthene

Concen: 56.443 ng

RT: 23.480 min Scan# 34

Delta R.T. -0.071 min

Lab File: BM049844.D

Acq: 07 Apr 2025 17:59

Instrument :

BNA_M

ClientSampleId :

Z-05ADL

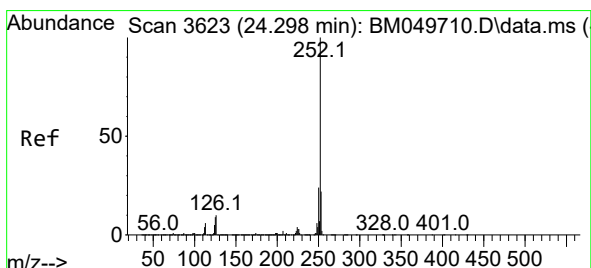
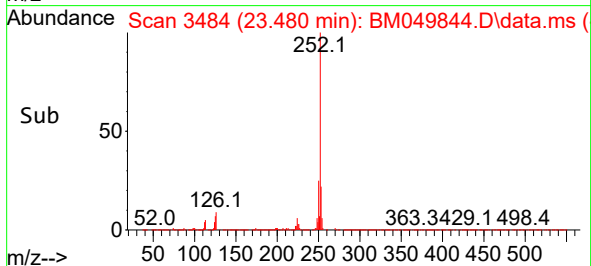
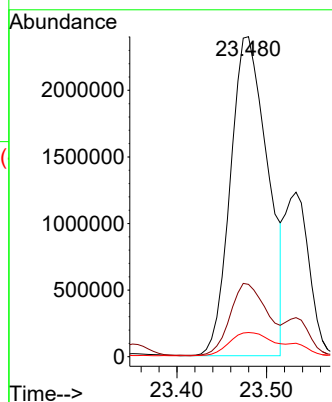
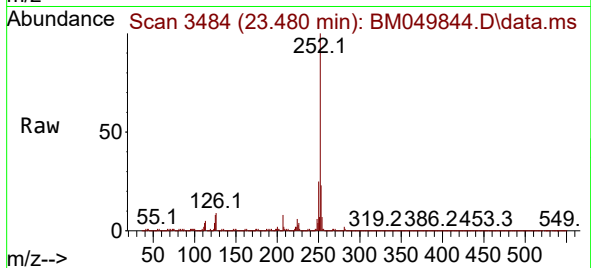
Tgt Ion:252 Resp: 6927085

Ion Ratio Lower Upper

252 100

253 22.6 17.3 25.9

125 7.5 6.2 9.2



#90

Benzo(a)pyrene

Concen: 47.150 ng

RT: 24.286 min Scan# 3621

Delta R.T. -0.012 min

Lab File: BM049844.D

Acq: 07 Apr 2025 17:59

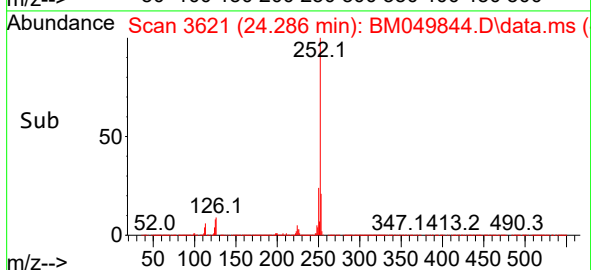
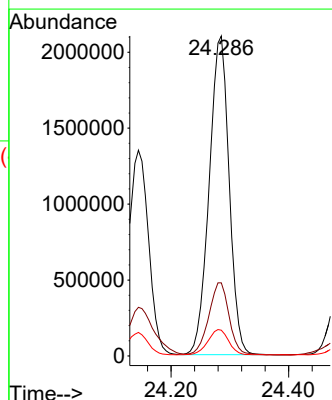
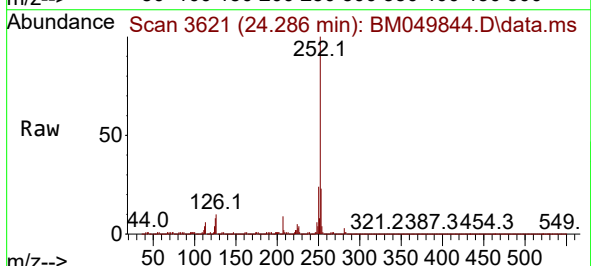
Tgt Ion:252 Resp: 4939613

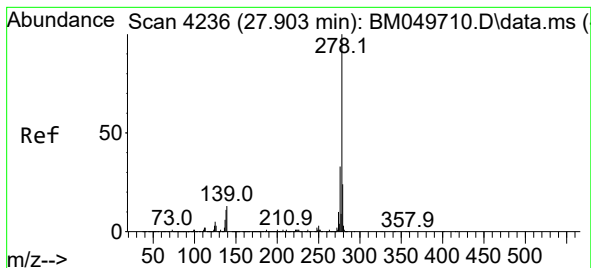
Ion Ratio Lower Upper

252 100

253 22.9 17.2 25.8

125 8.0 7.0 10.6





#91

Dibenzo(a,h)anthracene

Concen: 8.191 ng

RT: 27.856 min Scan# 41

Delta R.T. -0.047 min

Lab File: BM049844.D

Acq: 07 Apr 2025 17:59

Instrument :

BNA_M

ClientSampleId :

Z-05ADL

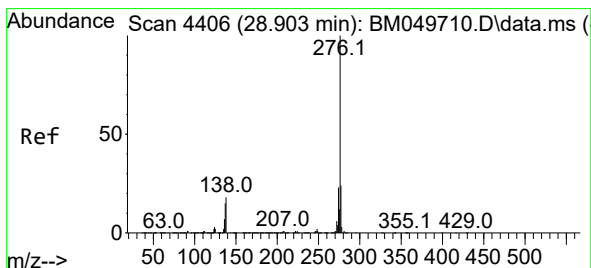
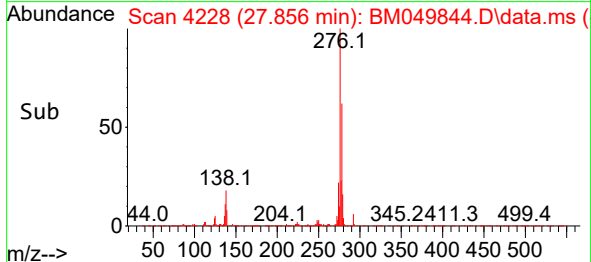
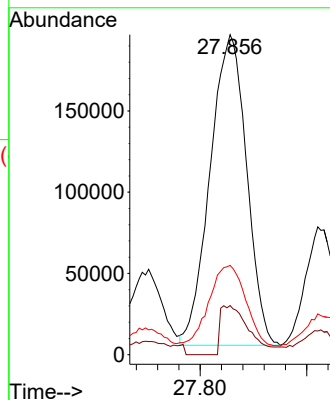
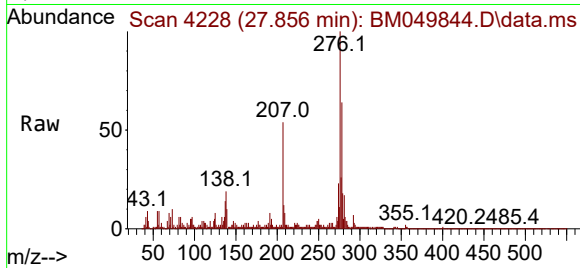
Tgt Ion:278 Resp: 909553

Ion Ratio Lower Upper

278 100

139 15.3 10.1 15.1#

279 27.9 19.1 28.7



#92

Benzo(g,h,i)perylene

Concen: 26.437 ng

RT: 28.879 min Scan# 4402

Delta R.T. -0.024 min

Lab File: BM049844.D

Acq: 07 Apr 2025 17:59

Tgt Ion:276 Resp: 2957054

Ion Ratio Lower Upper

276 100

277 24.0 18.8 28.2

138 18.0 14.0 21.0

