

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM050125\
 Data File : BM050068.D
 Acq On : 01 May 2025 17:23
 Operator : RC/JU
 Sample : Q1905-05
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 MH-H

Quant Time: May 01 18:07:21 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM042825.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Apr 28 18:09:16 2025
 Response via : Initial Calibration

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

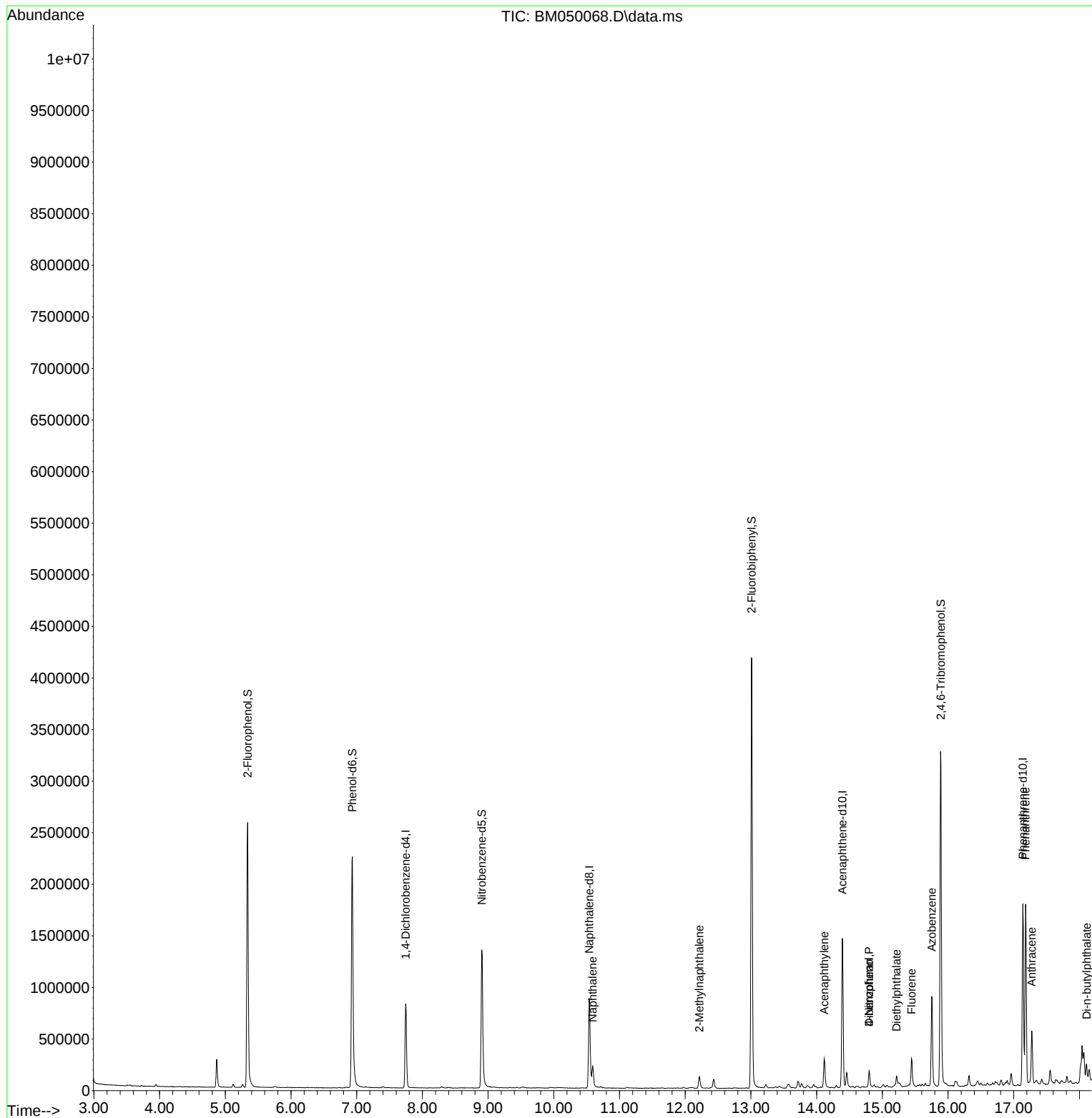
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.745	152	234921	20.000	ng	-0.02
21) Naphthalene-d8	10.539	136	809180	20.000	ng	-0.02
39) Acenaphthene-d10	14.392	164	514047	20.000	ng	-0.02
64) Phenanthrene-d10	17.139	188	1046698	20.000	ng	-0.02
76) Chrysene-d12	21.380	240	1208181	20.000	ng	-0.02
86) Perylene-d12	24.368	264	1289580	20.000	ng	-0.04
System Monitoring Compounds						
5) 2-Fluorophenol	5.340	112	1198973	89.370	ng	-0.02
7) Phenol-d6	6.934	99	1485909	88.122	ng	-0.02
23) Nitrobenzene-d5	8.904	82	890993	54.259	ng	-0.02
42) 2,4,6-Tribromophenol	15.892	330	669309	88.057	ng	-0.01
45) 2-Fluorobiphenyl	13.010	172	2247722	51.727	ng	-0.02
79) Terphenyl-d14	19.768	244	3922716	48.044	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	10.592	128	171414	4.183	ng	98
37) 2-Methylnaphthalene	12.216	142	63843	2.324	ng	97
49) Acenaphthylene	14.116	152	223681	4.688	ng	98
55) Dibenzofuran	14.798	168	111562	2.428	ng	98
56) 4-Nitrophenol	14.798	139	36558	10.242	ng	# 14
58) Fluorene	15.445	166	124735	3.316	ng	97
60) Diethylphthalate	15.215	149	73250	2.069	ng	99
63) Azobenzene	15.751	77	244033	8.226	ng	# 1
71) Phenanthrene	17.180	178	1081301	18.316	ng	100
72) Anthracene	17.274	178	333277	5.579	ng	99
74) Di-n-butylphthalate	18.109	149	141108	2.286	ng	98
75) Fluoranthene	19.198	202	1503225	21.688	ng	99
78) Pyrene	19.562	202	1560705	18.395	ng	99
81) Benzo(a)anthracene	21.362	228	829965	9.976	ng	97
83) Chrysene	21.421	228	762992	9.909	ng	98
87) Indeno(1,2,3-cd)pyrene	27.738	276	726065	7.556	ng	97
88) Benzo(b)fluoranthene	23.427	252	1384224	16.505	ng	99
89) Benzo(k)fluoranthene	23.427	252	1384224	16.317	ng	99
90) Benzo(a)pyrene	24.227	252	988333	12.582	ng	99
91) Dibenzo(a,h)anthracene	27.785	278	183030	2.337	ng	97
92) Benzo(g,h,i)perylene	28.785	276	722878	9.640	ng	100

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

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Data File : BM050068.D
Acq On : 01 May 2025 17:23
Operator : RC/JU
Sample : Q1905-05
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
MH-H

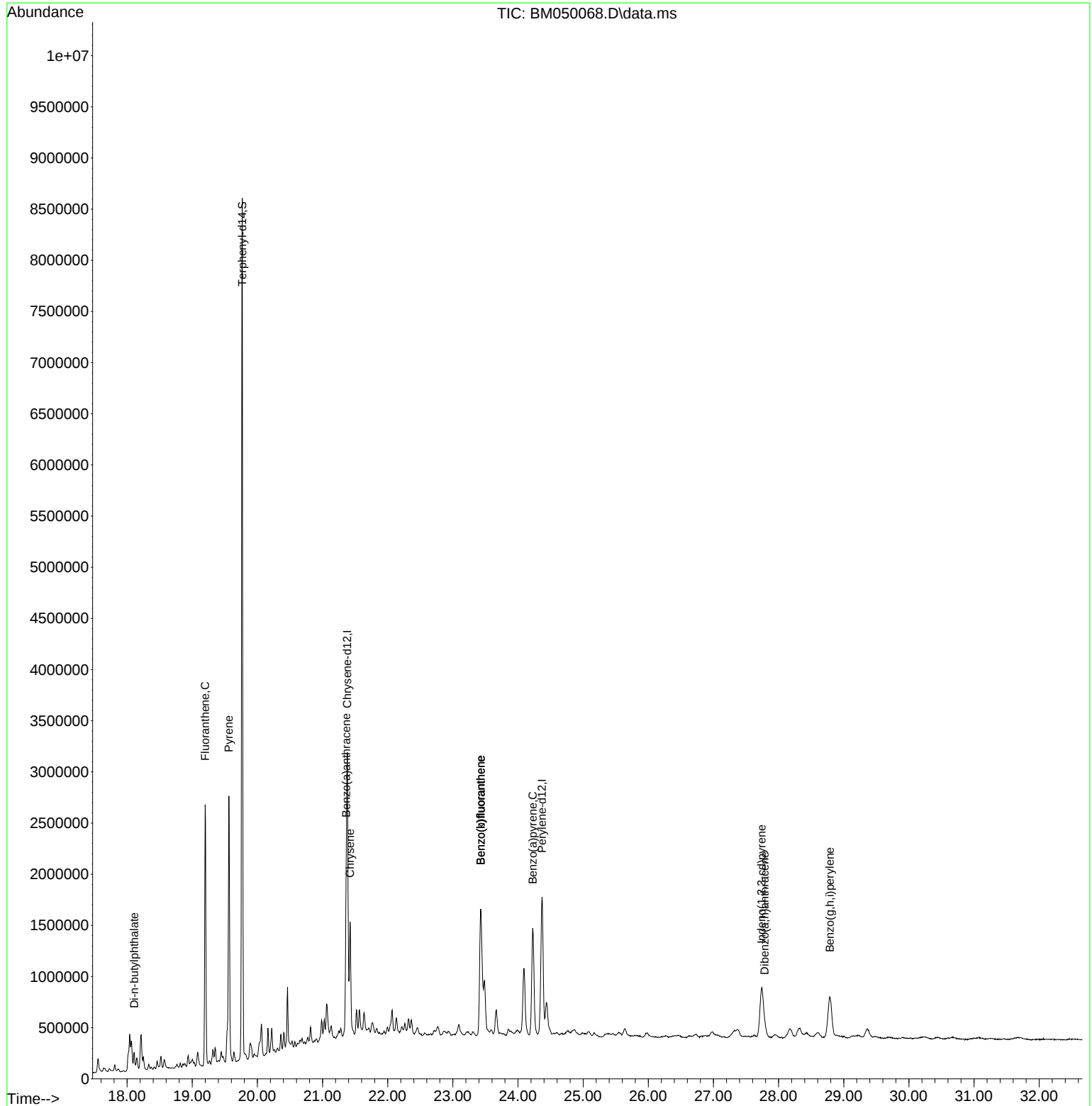
Quant Time: May 01 18:07:21 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM042825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Apr 28 18:09:16 2025
Response via : Initial Calibration

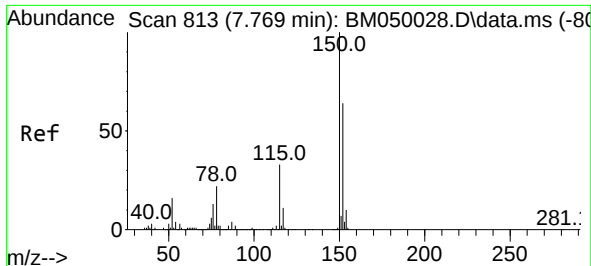


Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM050125\
Data File : BM050068.D
Acq On : 01 May 2025 17:23
Operator : RC/JU
Sample : Q1905-05
Misc :
ALS Vial : 8 Sample Multiplier: 1

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Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM042825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Apr 28 18:09:16 2025
Response via : Initial Calibration

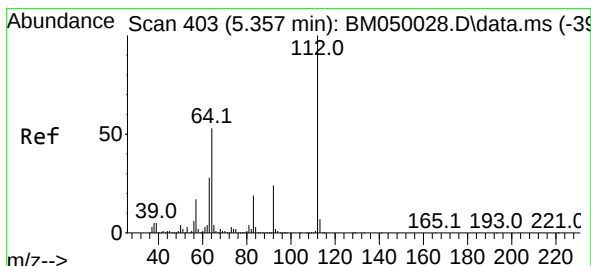
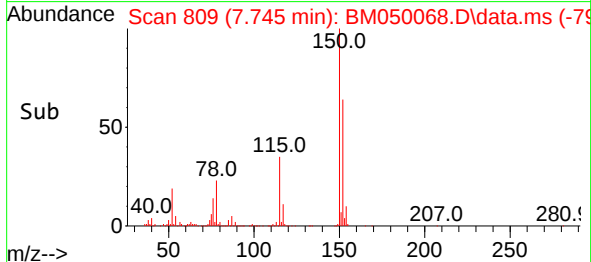
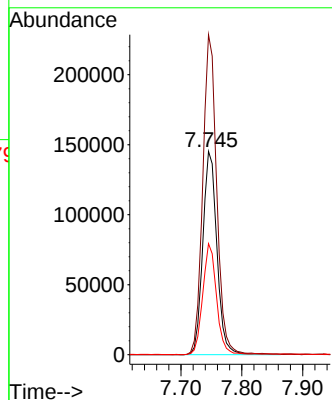
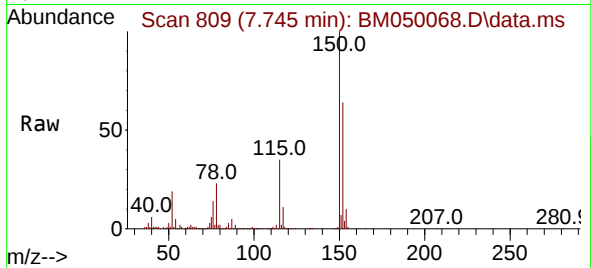




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.745 min Scan# 809
Delta R.T. -0.024 min
Lab File: BM050068.D
Acq: 01 May 2025 17:23

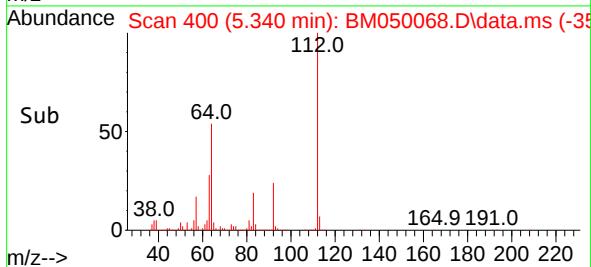
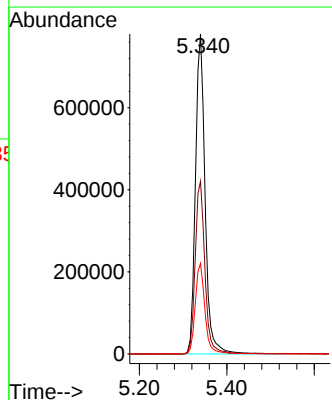
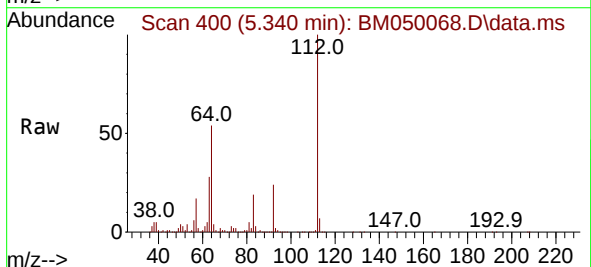
Instrument :
BNA_M
ClientSampleId :
MH-H

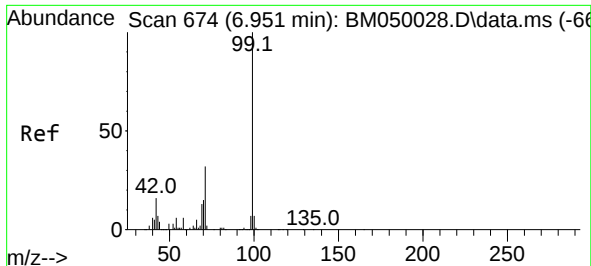
Tgt Ion:152 Resp: 234921
Ion Ratio Lower Upper
152 100
150 157.4 124.1 186.1
115 54.6 41.2 61.8



#5
2-Fluorophenol
Concen: 89.370 ng
RT: 5.340 min Scan# 400
Delta R.T. -0.018 min
Lab File: BM050068.D
Acq: 01 May 2025 17:23

Tgt Ion:112 Resp: 1198973
Ion Ratio Lower Upper
112 100
64 54.0 42.6 64.0
63 28.3 22.2 33.4

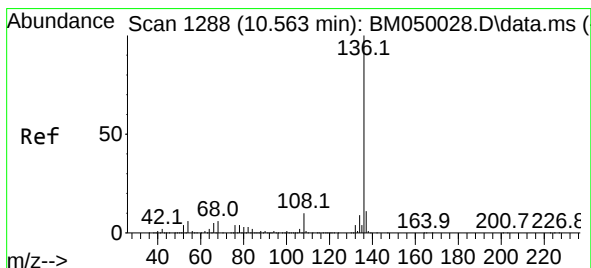
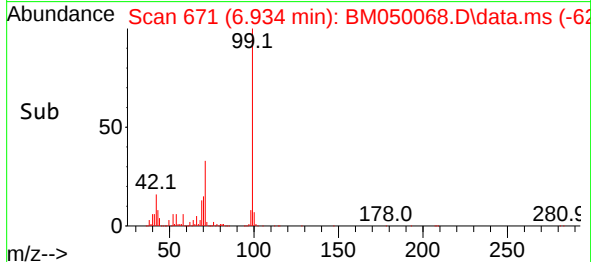
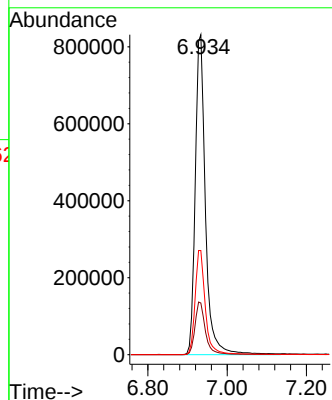
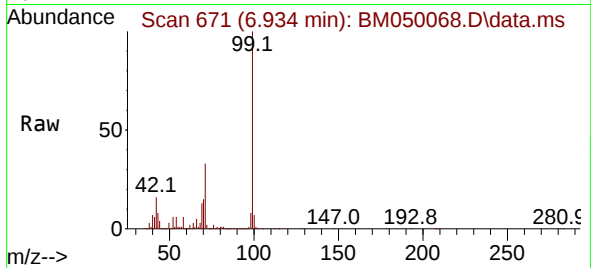




#7
Phenol-d6
Concen: 88.122 ng
RT: 6.934 min Scan# 61
Delta R.T. -0.018 min
Lab File: BM050068.D
Acq: 01 May 2025 17:23

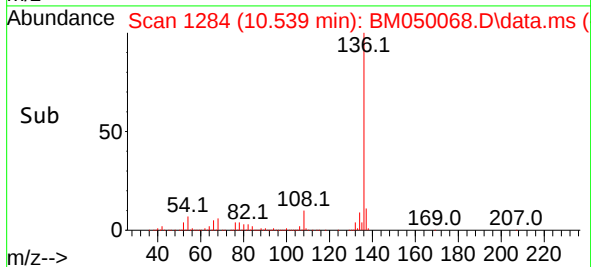
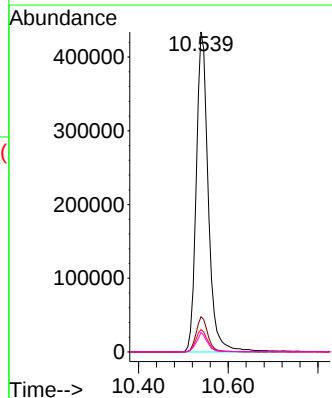
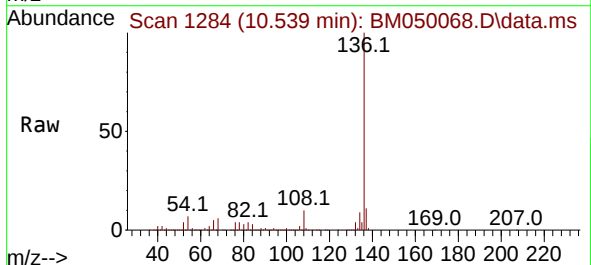
Instrument :
BNA_M
ClientSampleId :
MH-H

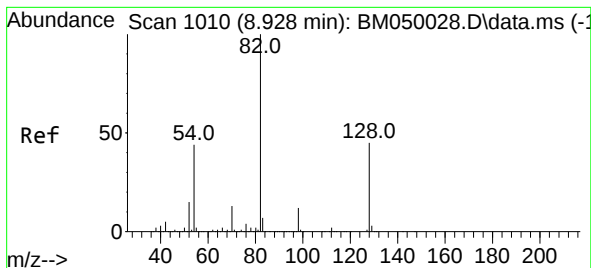
Tgt Ion: 99 Resp: 1485909
Ion Ratio Lower Upper
99 100
42 16.2 13.0 19.4
71 32.5 25.6 38.4



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.539 min Scan# 1284
Delta R.T. -0.024 min
Lab File: BM050068.D
Acq: 01 May 2025 17:23

Tgt Ion: 136 Resp: 809180
Ion Ratio Lower Upper
136 100
137 11.0 8.9 13.3
54 7.0 5.1 7.7
68 6.1 4.4 6.6





#23

Nitrobenzene-d5

Concen: 54.259 ng

RT: 8.904 min Scan# 1006

Delta R.T. -0.024 min

Lab File: BM050068.D

Acq: 01 May 2025 17:23

Instrument :

BNA_M

ClientSampleId :

MH-H

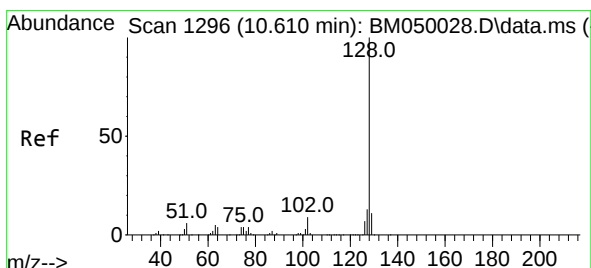
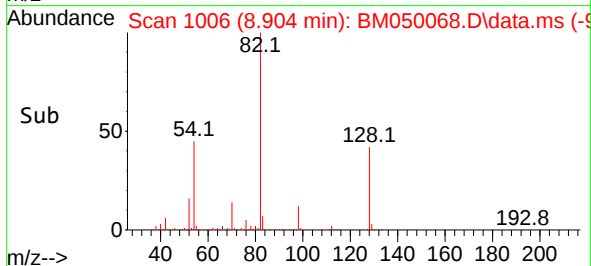
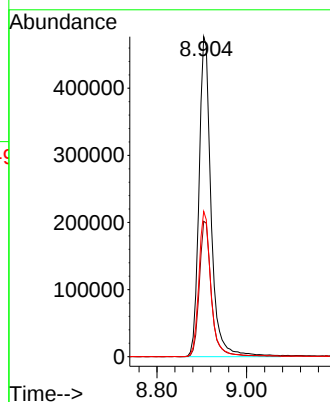
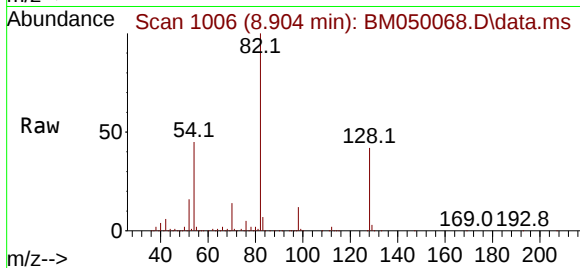
Tgt Ion: 82 Resp: 890993

Ion Ratio Lower Upper

82 100

128 42.3 35.7 53.5

54 45.4 35.4 53.2



#31

Naphthalene

Concen: 4.183 ng

RT: 10.592 min Scan# 1293

Delta R.T. -0.018 min

Lab File: BM050068.D

Acq: 01 May 2025 17:23

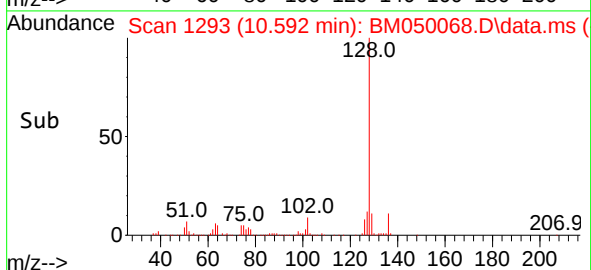
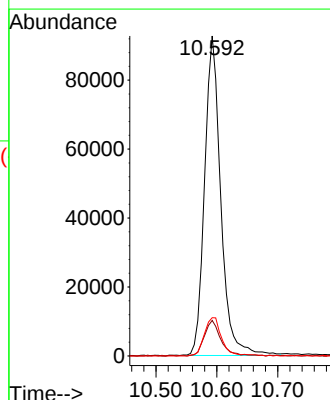
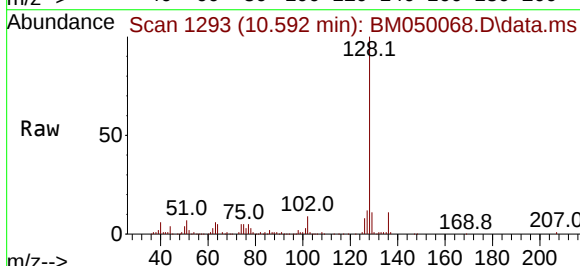
Tgt Ion: 128 Resp: 171414

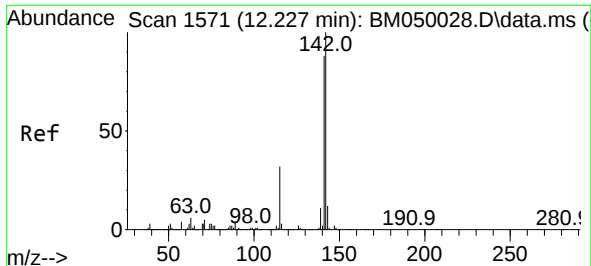
Ion Ratio Lower Upper

128 100

129 11.1 8.8 13.2

127 11.9 10.4 15.6

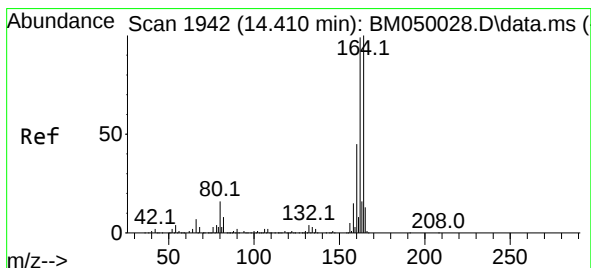
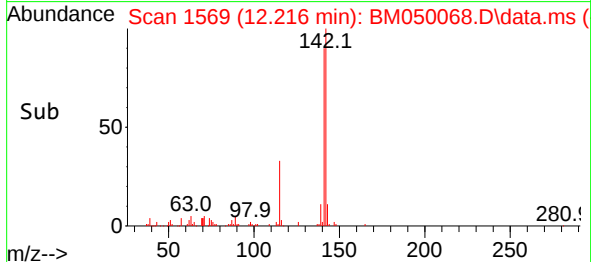
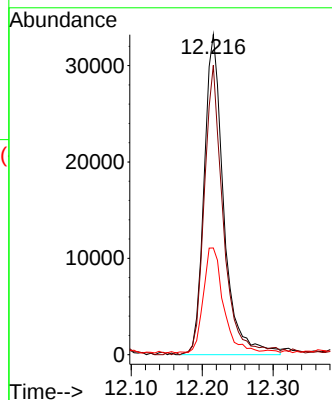
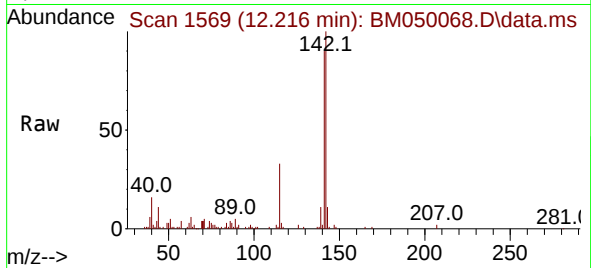




#37
2-Methylnaphthalene
Concen: 2.324 ng
RT: 12.216 min Scan# 1569
Delta R.T. -0.012 min
Lab File: BM050068.D
Acq: 01 May 2025 17:23

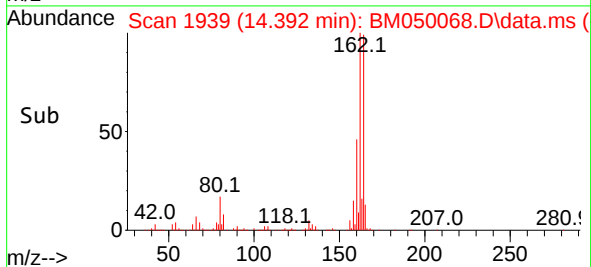
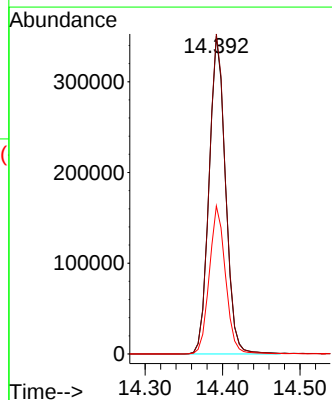
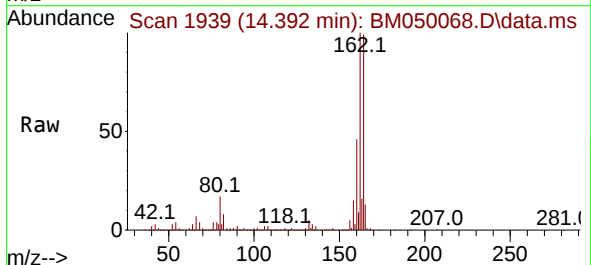
Instrument :
BNA_M
ClientSampleId :
MH-H

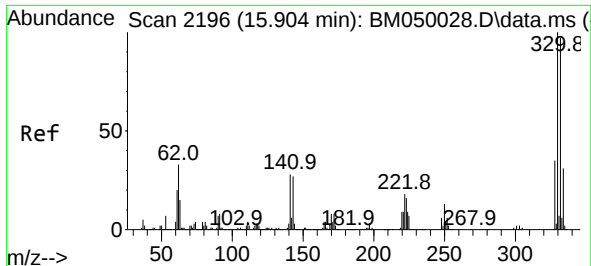
Tgt Ion:142 Resp: 63843
Ion Ratio Lower Upper
142 100
141 90.4 70.4 105.6
115 33.4 25.4 38.2



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.392 min Scan# 1939
Delta R.T. -0.018 min
Lab File: BM050068.D
Acq: 01 May 2025 17:23

Tgt Ion:164 Resp: 514047
Ion Ratio Lower Upper
164 100
162 100.7 79.4 119.0
160 46.6 36.2 54.4

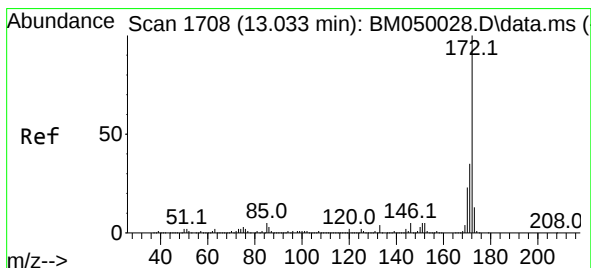
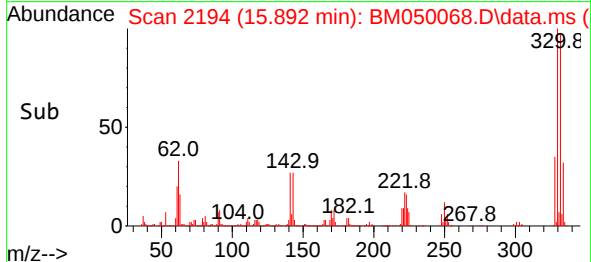
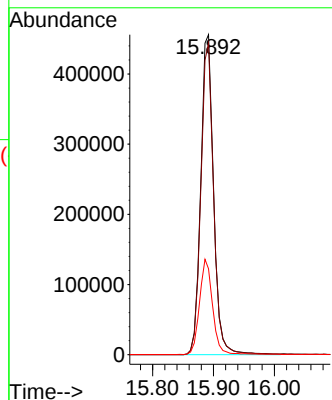
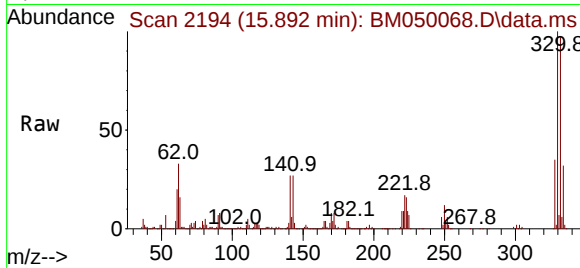




#42
2,4,6-Tribromophenol
Concen: 88.057 ng
RT: 15.892 min Scan# 2196
Delta R.T. -0.012 min
Lab File: BM050068.D
Acq: 01 May 2025 17:23

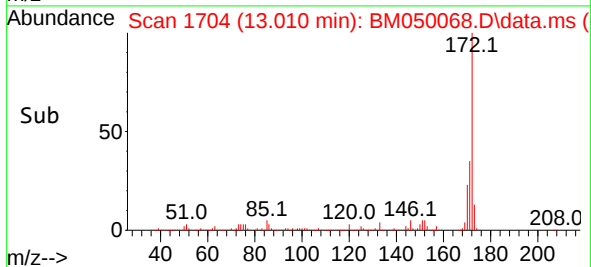
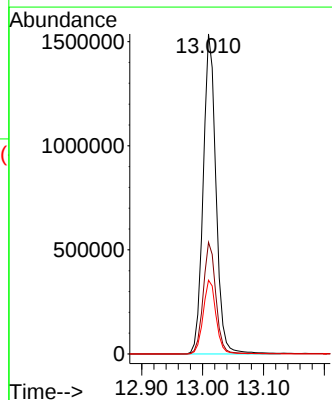
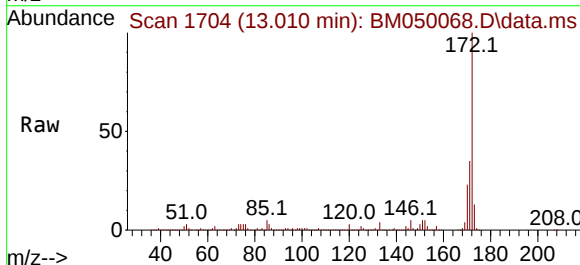
Instrument :
BNA_M
ClientSampleId :
MH-H

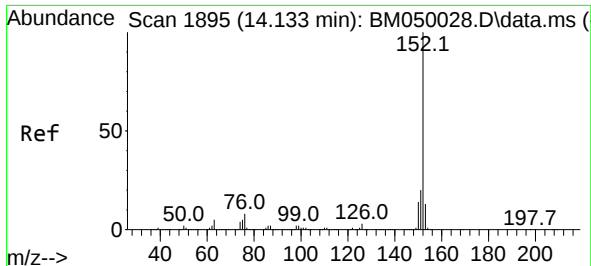
Tgt Ion:330 Resp: 669309
Ion Ratio Lower Upper
330 100
332 96.6 77.3 115.9
141 30.3 22.5 33.7



#45
2-Fluorobiphenyl
Concen: 51.727 ng
RT: 13.010 min Scan# 1704
Delta R.T. -0.024 min
Lab File: BM050068.D
Acq: 01 May 2025 17:23

Tgt Ion:172 Resp: 2247722
Ion Ratio Lower Upper
172 100
171 34.9 27.8 41.6
170 23.1 18.6 28.0

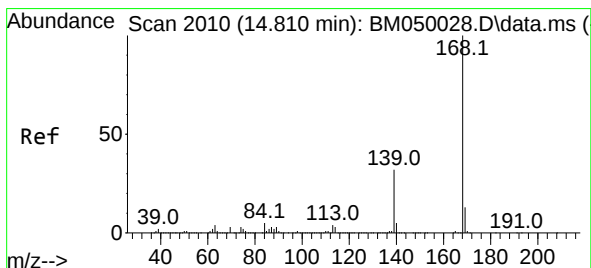
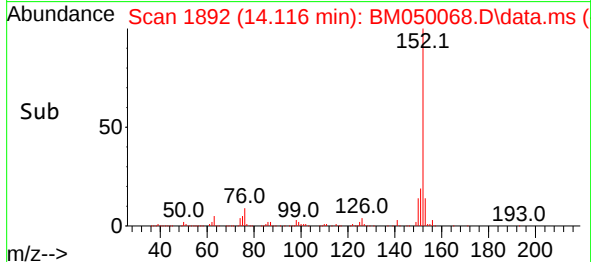
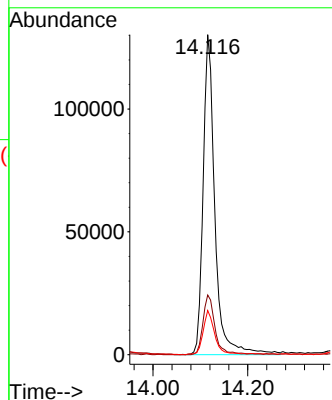
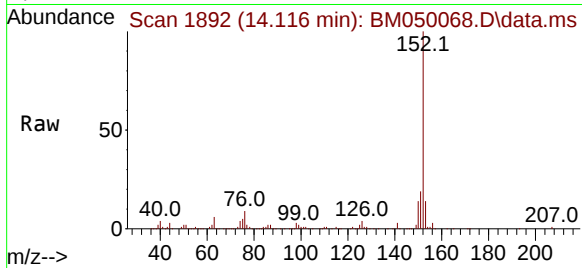




#49
Acenaphthylene
Concen: 4.688 ng
RT: 14.116 min Scan# 1
Delta R.T. -0.018 min
Lab File: BM050068.D
Acq: 01 May 2025 17:23

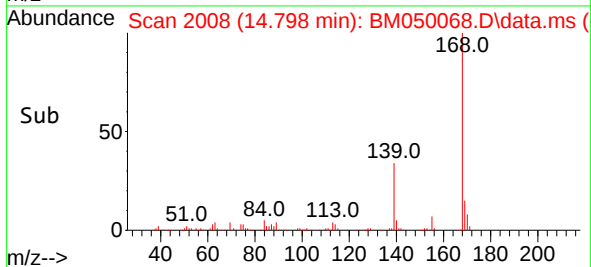
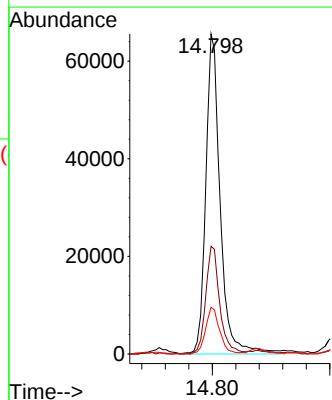
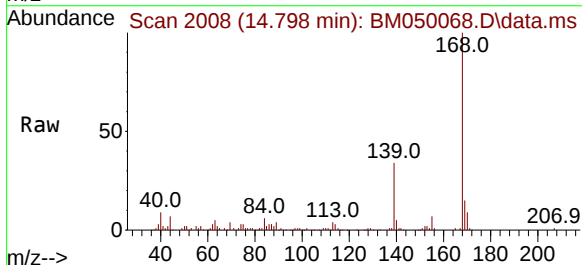
Instrument :
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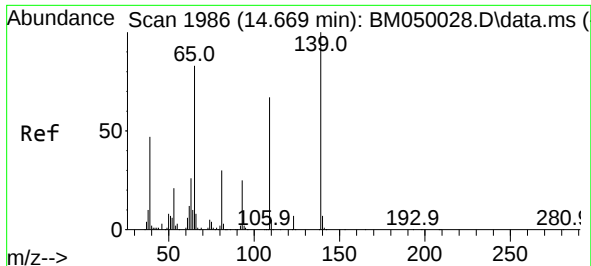
Tgt Ion:152 Resp: 223681
Ion Ratio Lower Upper
152 100
151 18.6 15.8 23.8
153 13.8 10.6 15.8



#55
Dibenzofuran
Concen: 2.428 ng
RT: 14.798 min Scan# 2008
Delta R.T. -0.012 min
Lab File: BM050068.D
Acq: 01 May 2025 17:23

Tgt Ion:168 Resp: 111562
Ion Ratio Lower Upper
168 100
139 33.6 26.1 39.1
169 14.6 10.8 16.2

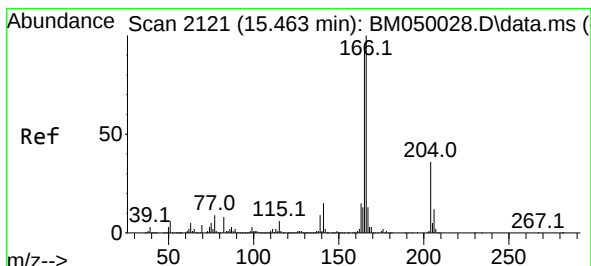
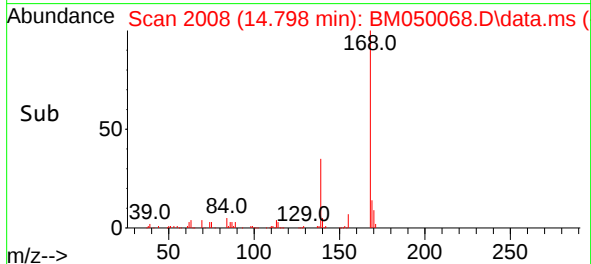
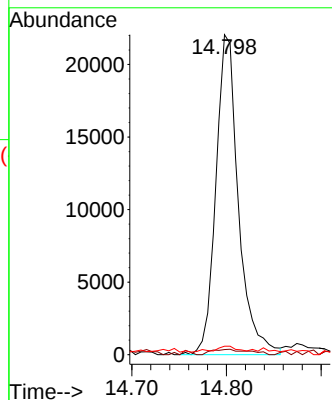
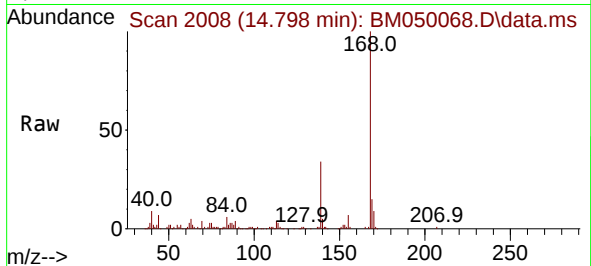




#56
4-Nitrophenol
Concen: 10.242 ng
RT: 14.798 min Scan# 20
Delta R.T. 0.129 min
Lab File: BM050068.D
Acq: 01 May 2025 17:23

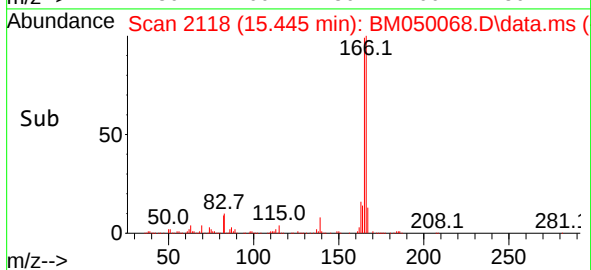
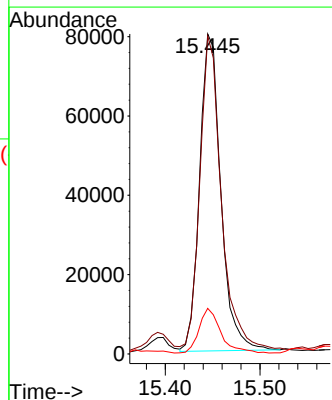
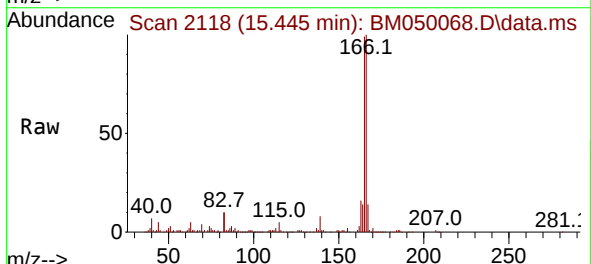
Instrument :
BNA_M
ClientSampleId :
MH-H

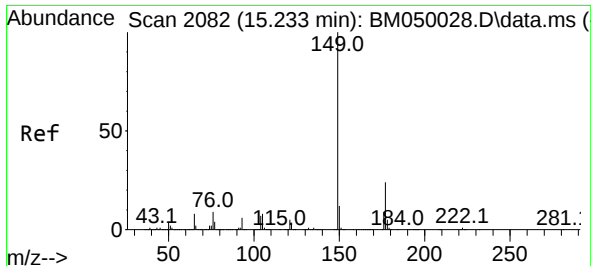
Tgt Ion:139 Resp: 36558
Ion Ratio Lower Upper
139 100
109 1.6 47.0 87.0#
65 2.7 64.3 104.3#



#58
Fluorene
Concen: 3.316 ng
RT: 15.445 min Scan# 2118
Delta R.T. -0.018 min
Lab File: BM050068.D
Acq: 01 May 2025 17:23

Tgt Ion:166 Resp: 124735
Ion Ratio Lower Upper
166 100
165 99.3 76.6 115.0
167 14.2 10.6 16.0

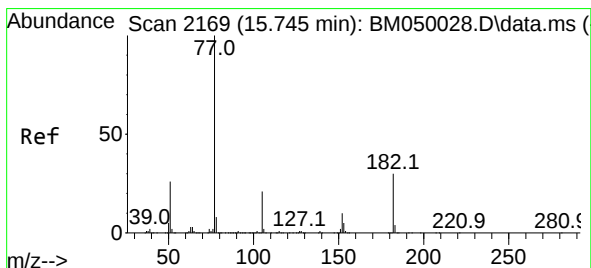
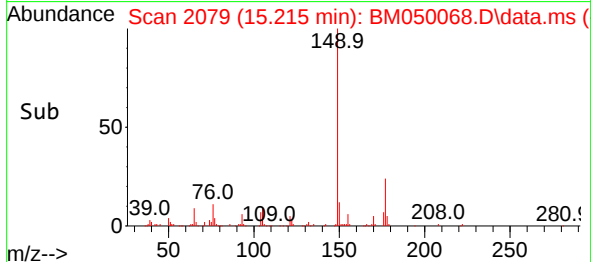
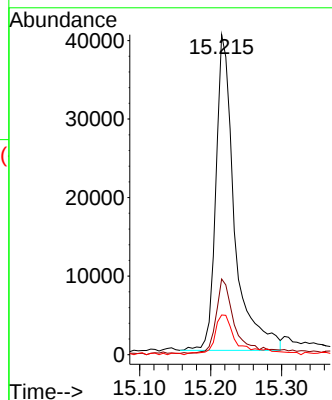
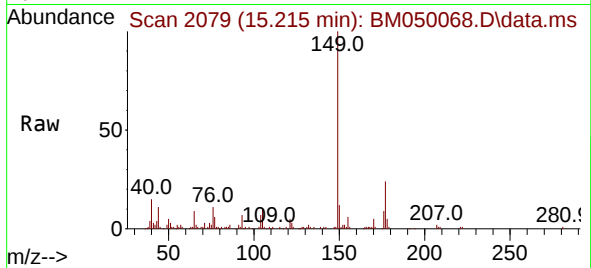




#60
Diethylphthalate
Concen: 2.069 ng
RT: 15.215 min Scan# 2082
Delta R.T. -0.018 min
Lab File: BM050068.D
Acq: 01 May 2025 17:23

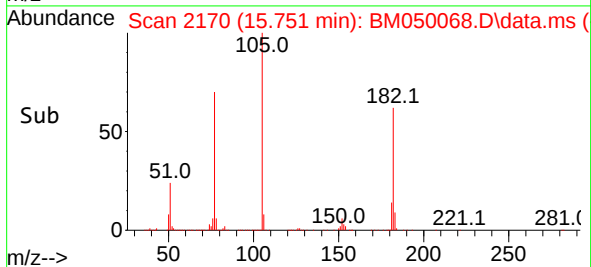
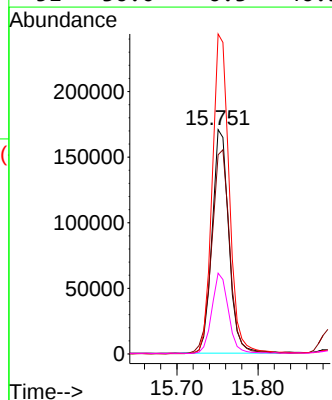
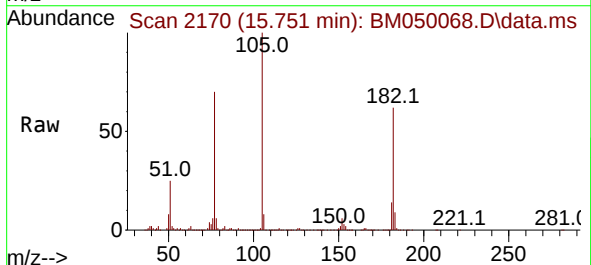
Instrument :
BNA_M
ClientSampleId :
MH-H

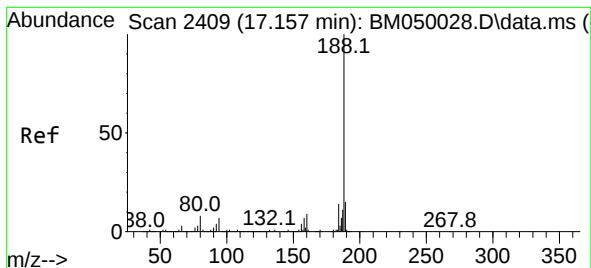
Tgt Ion:149 Resp: 73250
Ion Ratio Lower Upper
149 100
177 23.7 19.1 28.7
150 12.4 9.6 14.4



#63
Azobenzene
Concen: 8.226 ng
RT: 15.751 min Scan# 2170
Delta R.T. 0.006 min
Lab File: BM050068.D
Acq: 01 May 2025 17:23

Tgt Ion: 77 Resp: 244033
Ion Ratio Lower Upper
77 100
182 88.8 10.5 50.5#
105 142.6 1.1 41.1#
51 36.0 6.3 46.3





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.139 min Scan# 2406

Delta R.T. -0.018 min

Lab File: BM050068.D

Acq: 01 May 2025 17:23

Instrument :

BNA_M

ClientSampleId :

MH-H

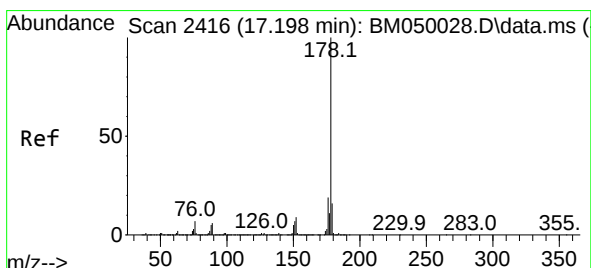
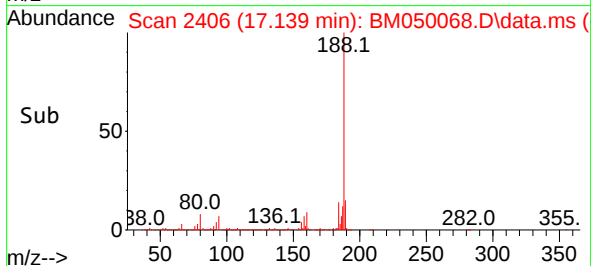
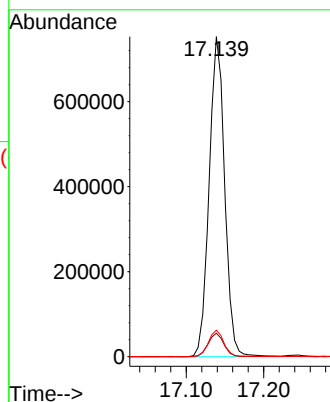
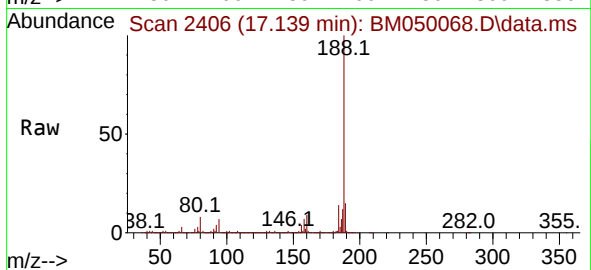
Tgt Ion:188 Resp: 1046698

Ion Ratio Lower Upper

188 100

94 7.3 5.7 8.5

80 8.3 6.2 9.4



#71

Phenanthrene

Concen: 18.316 ng

RT: 17.180 min Scan# 2413

Delta R.T. -0.018 min

Lab File: BM050068.D

Acq: 01 May 2025 17:23

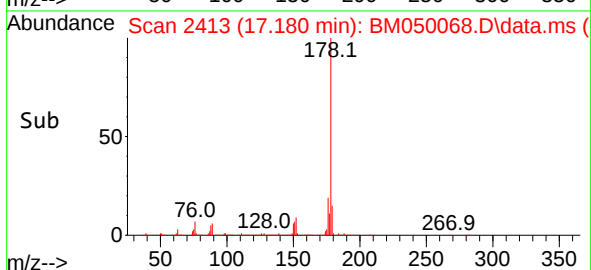
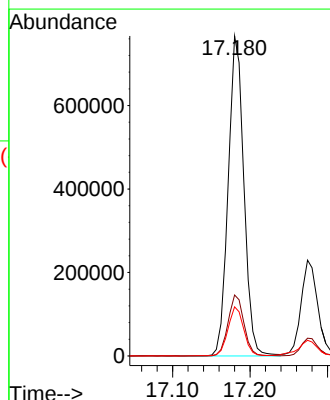
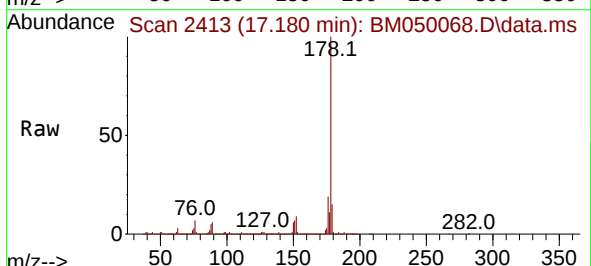
Tgt Ion:178 Resp: 1081301

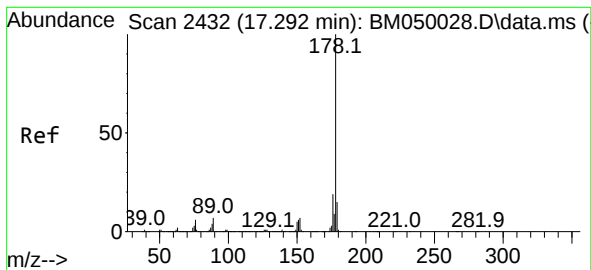
Ion Ratio Lower Upper

178 100

176 19.0 15.3 22.9

179 15.4 12.4 18.6





#72

Anthracene

Concen: 5.579 ng

RT: 17.274 min Scan# 24

Delta R.T. -0.018 min

Lab File: BM050068.D

Acq: 01 May 2025 17:23

Instrument :

BNA_M

ClientSampleId :

MH-H

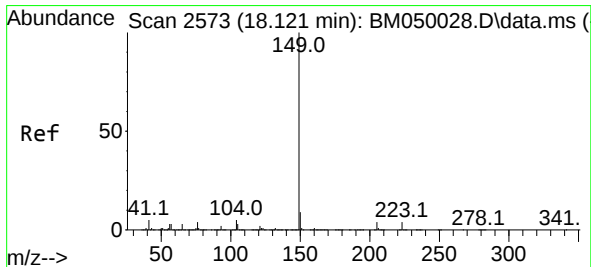
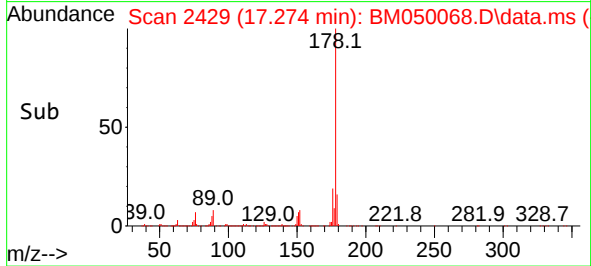
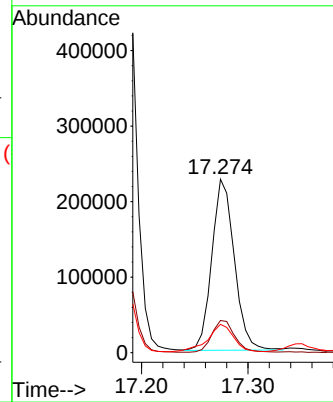
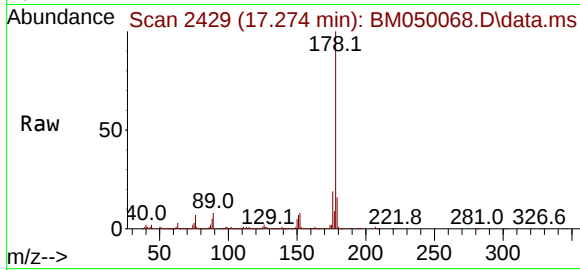
Tgt Ion:178 Resp: 333277

Ion Ratio Lower Upper

178 100

176 18.5 15.0 22.4

179 16.3 12.2 18.4



#74

Di-n-butylphthalate

Concen: 2.286 ng

RT: 18.109 min Scan# 2571

Delta R.T. -0.012 min

Lab File: BM050068.D

Acq: 01 May 2025 17:23

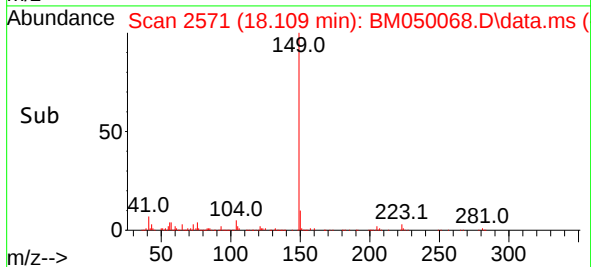
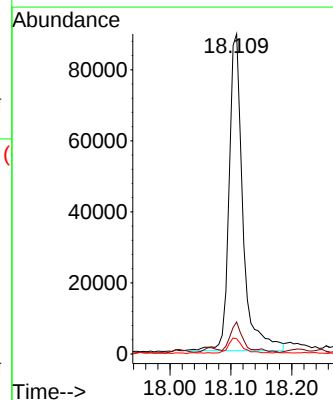
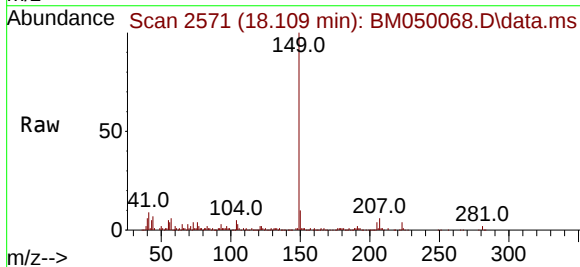
Tgt Ion:149 Resp: 141108

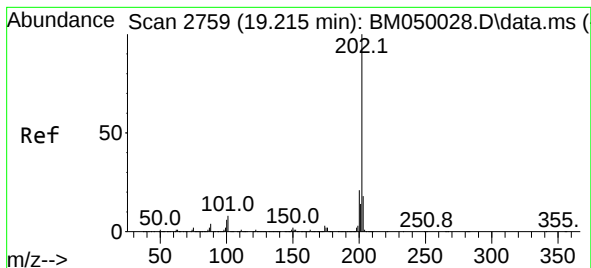
Ion Ratio Lower Upper

149 100

150 10.0 7.3 10.9

104 4.8 3.8 5.6





#75

Fluoranthene

Concen: 21.688 ng

RT: 19.198 min Scan# 21

Delta R.T. -0.018 min

Lab File: BM050068.D

Acq: 01 May 2025 17:23

Instrument :

BNA_M

ClientSampleId :

MH-H

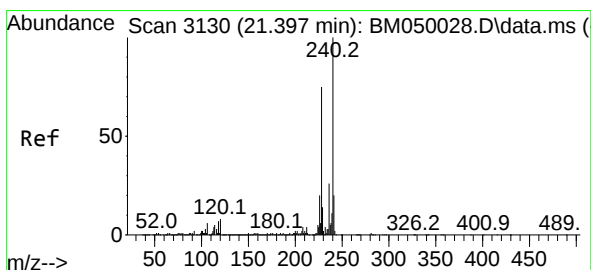
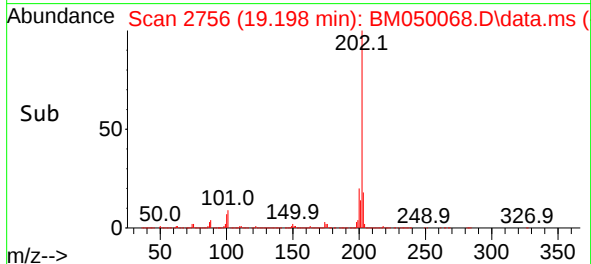
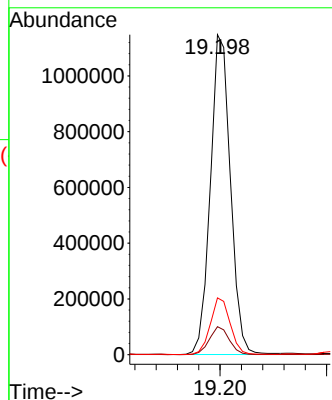
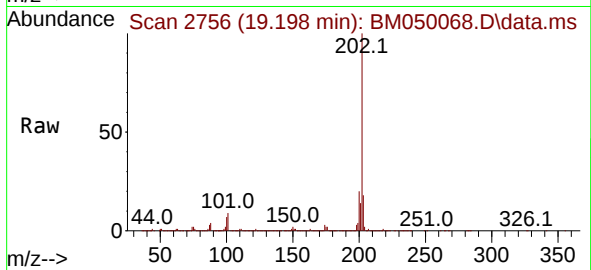
Tgt Ion:202 Resp: 1503225

Ion Ratio Lower Upper

202 100

101 8.8 0.0 28.0

203 17.8 0.0 37.7



#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.380 min Scan# 3127

Delta R.T. -0.017 min

Lab File: BM050068.D

Acq: 01 May 2025 17:23

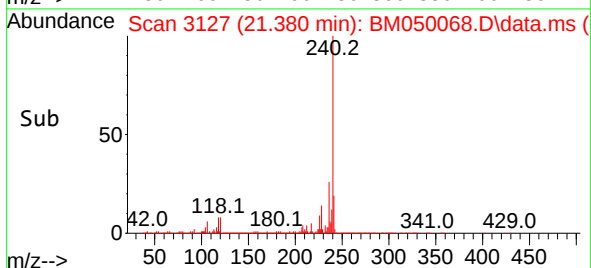
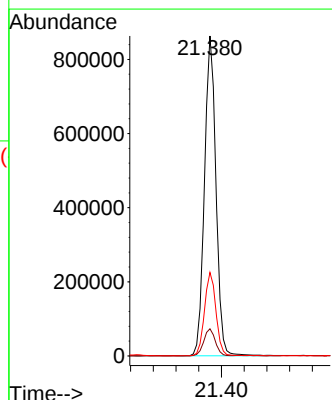
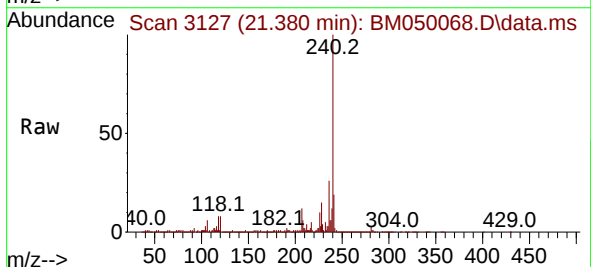
Tgt Ion:240 Resp: 1208181

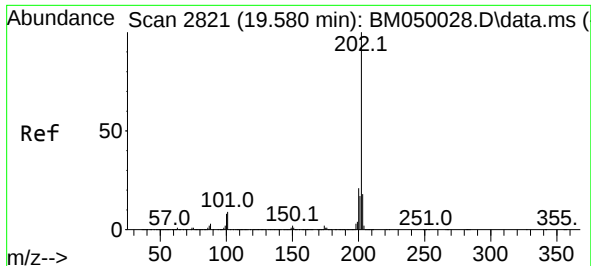
Ion Ratio Lower Upper

240 100

120 8.5 6.5 9.7

236 26.1 20.9 31.3

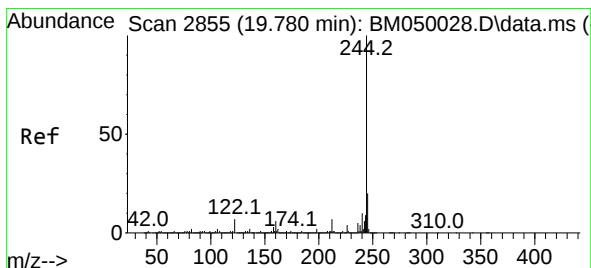
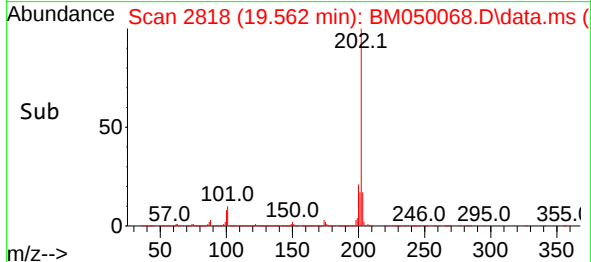
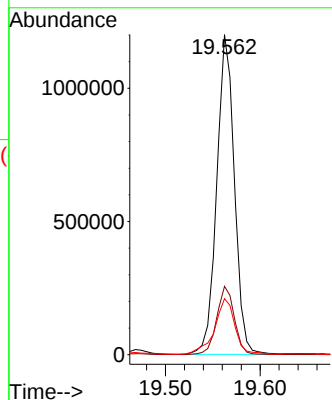
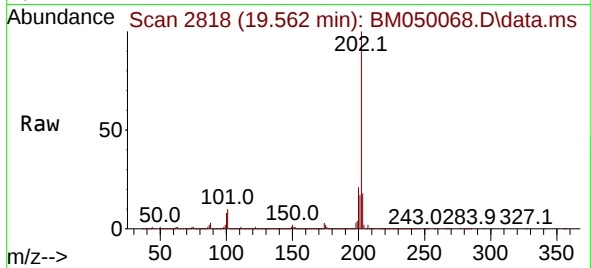




#78
Pyrene
Concen: 18.395 ng
RT: 19.562 min Scan# 2818
Delta R.T. -0.018 min
Lab File: BM050068.D
Acq: 01 May 2025 17:23

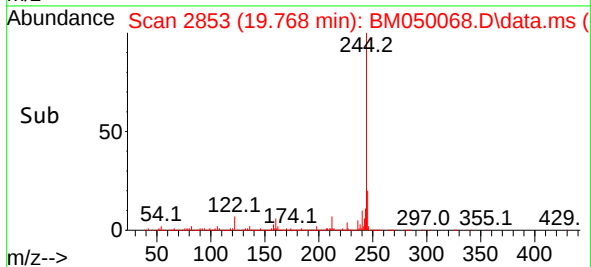
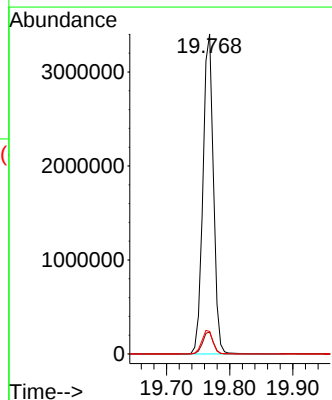
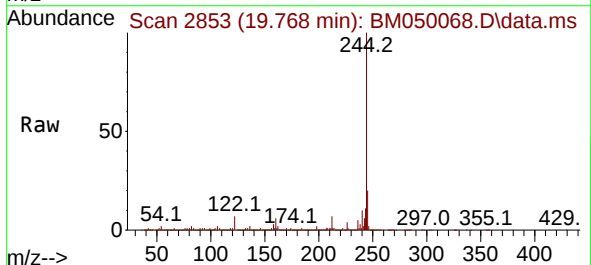
Instrument :
BNA_M
ClientSampleId :
MH-H

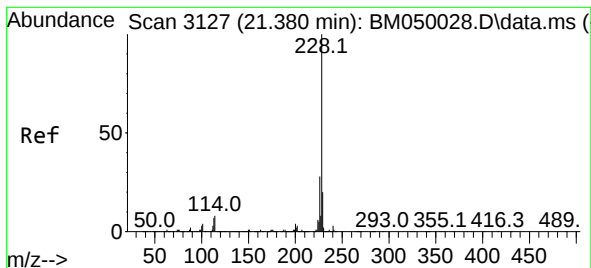
Tgt Ion:202 Resp: 1560705
Ion Ratio Lower Upper
202 100
200 21.4 16.7 25.1
203 17.5 14.1 21.1



#79
Terphenyl-d14
Concen: 48.044 ng
RT: 19.768 min Scan# 2853
Delta R.T. -0.012 min
Lab File: BM050068.D
Acq: 01 May 2025 17:23

Tgt Ion:244 Resp: 3922716
Ion Ratio Lower Upper
244 100
212 6.8 5.6 8.4
122 7.1 5.6 8.4





#81

Benzo(a)anthracene

Concen: 9.976 ng

RT: 21.362 min Scan# 3124

Delta R.T. -0.018 min

Lab File: BM050068.D

Acq: 01 May 2025 17:23

Instrument :

BNA_M

ClientSampleId :

MH-H

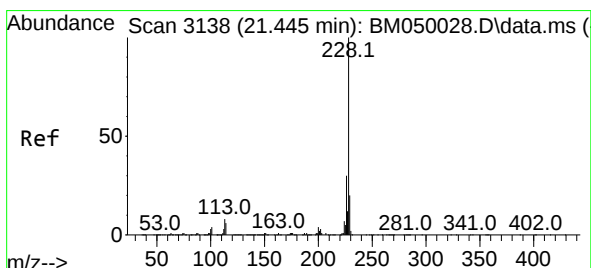
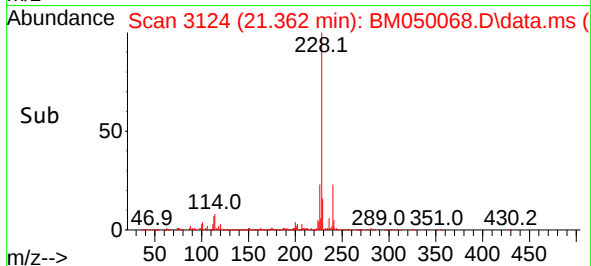
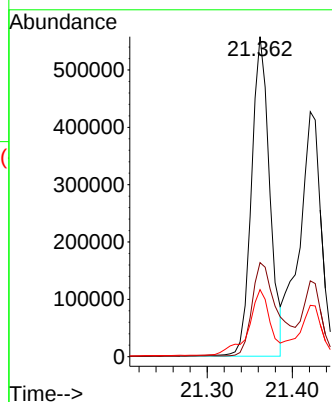
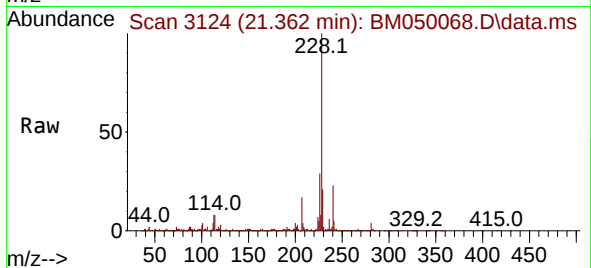
Tgt Ion:228 Resp: 829965

Ion Ratio Lower Upper

228 100

226 29.4 22.1 33.1

229 20.9 15.7 23.5



#83

Chrysene

Concen: 9.909 ng

RT: 21.421 min Scan# 3134

Delta R.T. -0.024 min

Lab File: BM050068.D

Acq: 01 May 2025 17:23

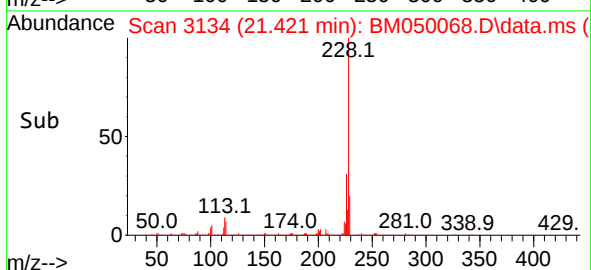
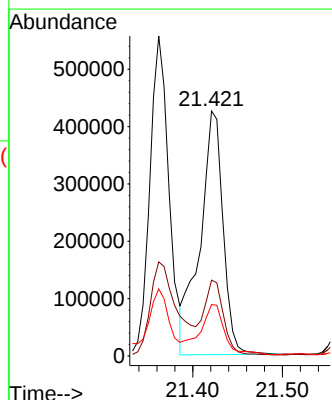
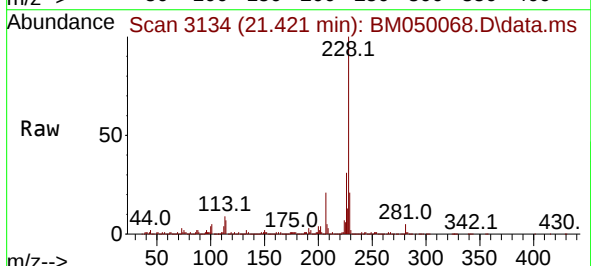
Tgt Ion:228 Resp: 762992

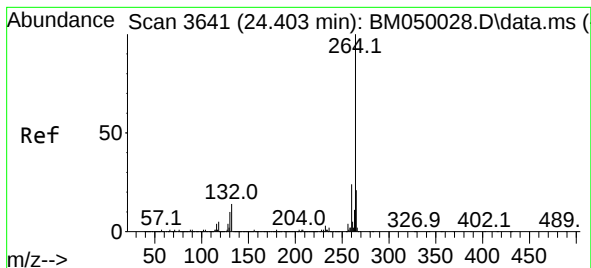
Ion Ratio Lower Upper

228 100

226 31.0 24.2 36.2

229 20.9 15.7 23.5





#86

Perylene-d12

Concen: 20.000 ng

RT: 24.368 min Scan# 3

Delta R.T. -0.035 min

Lab File: BM050068.D

Acq: 01 May 2025 17:23

Instrument :

BNA_M

ClientSampleId :

MH-H

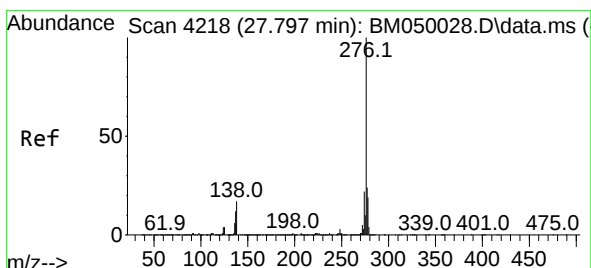
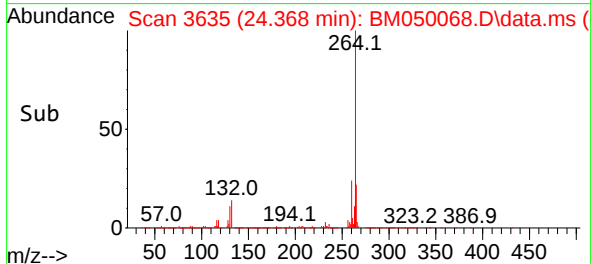
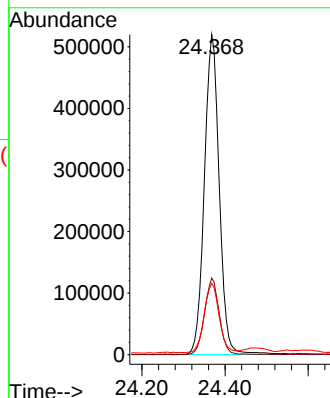
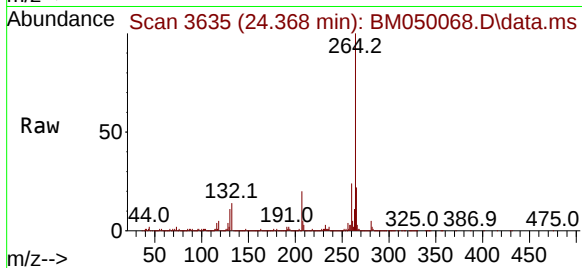
Tgt Ion:264 Resp: 1289580

Ion Ratio Lower Upper

264 100

260 23.9 18.8 28.2

265 22.3 17.0 25.4



#87

Indeno(1,2,3-cd)pyrene

Concen: 7.556 ng

RT: 27.738 min Scan# 4208

Delta R.T. -0.059 min

Lab File: BM050068.D

Acq: 01 May 2025 17:23

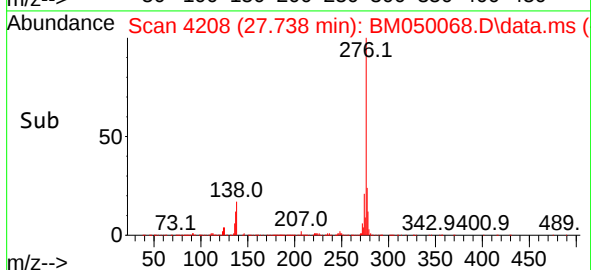
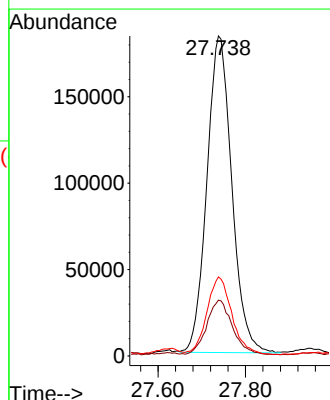
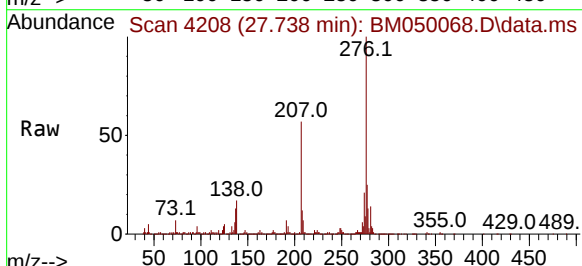
Tgt Ion:276 Resp: 726065

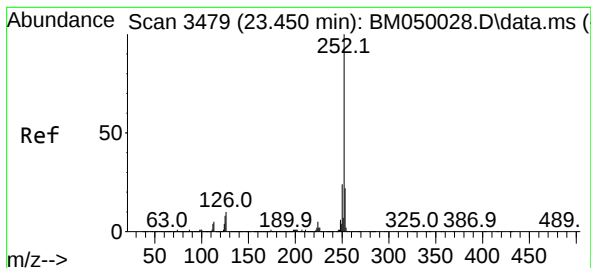
Ion Ratio Lower Upper

276 100

138 17.6 16.4 24.6

277 24.8 19.8 29.8





#88

Benzo(b)fluoranthene

Concen: 16.505 ng

RT: 23.427 min Scan# 3475

Delta R.T. -0.024 min

Lab File: BM050068.D

Acq: 01 May 2025 17:23

Instrument :

BNA_M

ClientSampleId :

MH-H

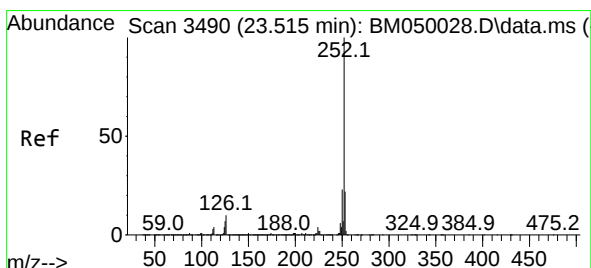
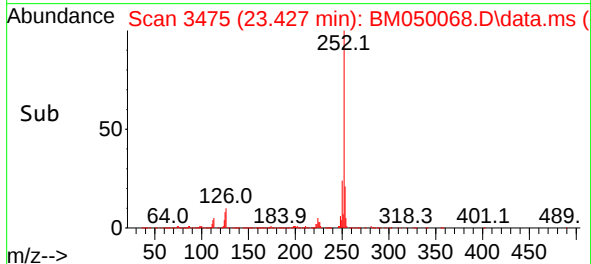
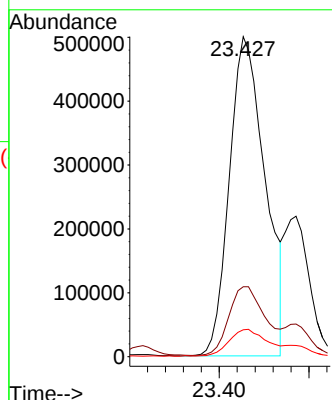
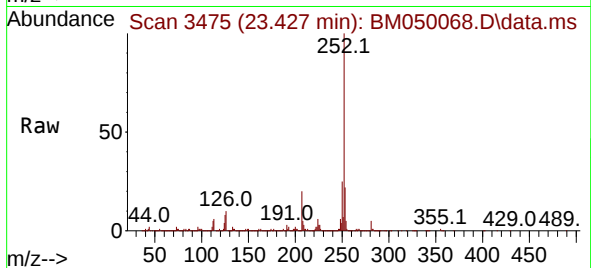
Tgt Ion:252 Resp: 1384224

Ion Ratio Lower Upper

252 100

253 21.8 17.7 26.5

125 8.4 6.1 9.1



#89

Benzo(k)fluoranthene

Concen: 16.317 ng

RT: 23.427 min Scan# 3475

Delta R.T. -0.088 min

Lab File: BM050068.D

Acq: 01 May 2025 17:23

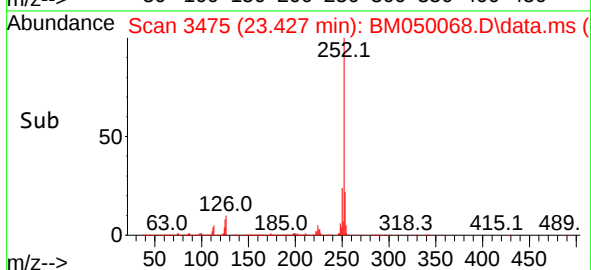
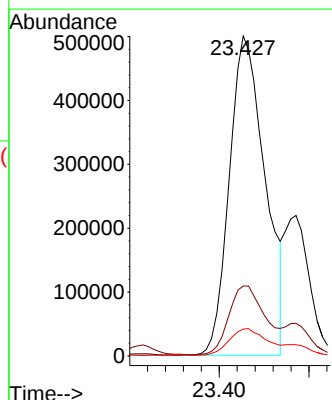
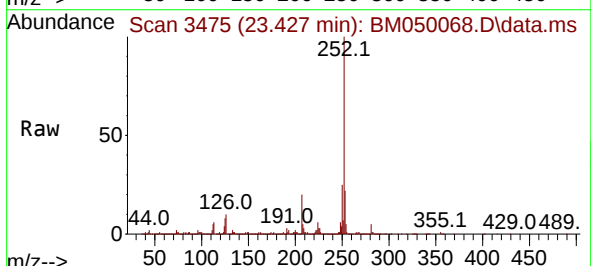
Tgt Ion:252 Resp: 1384224

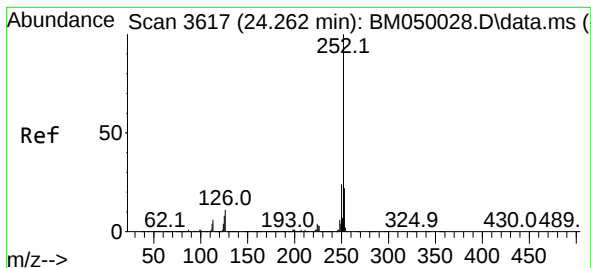
Ion Ratio Lower Upper

252 100

253 21.8 17.4 26.2

125 8.4 5.8 8.8





#90

Benzo(a)pyrene

Concen: 12.582 ng

RT: 24.227 min Scan# 3

Delta R.T. -0.035 min

Lab File: BM050068.D

Acq: 01 May 2025 17:23

Instrument :

BNA_M

ClientSampleId :

MH-H

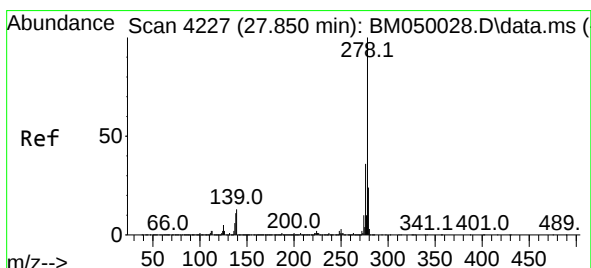
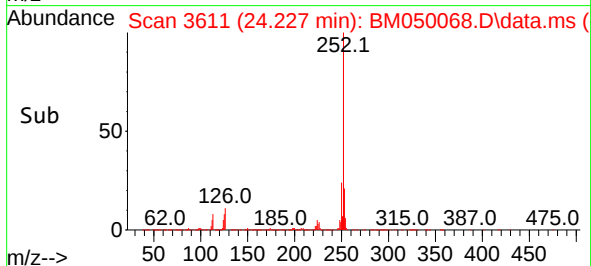
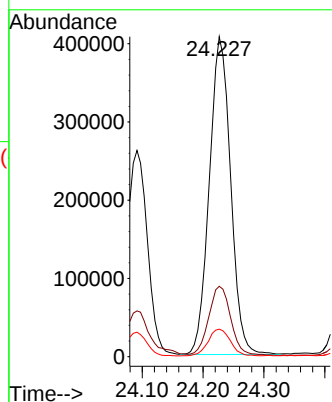
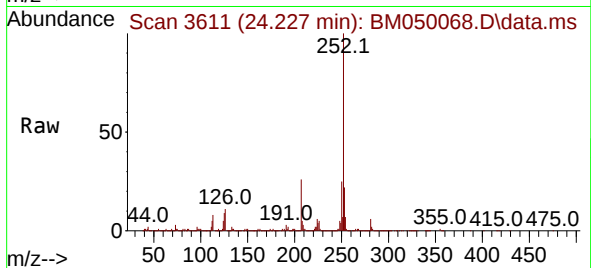
Tgt Ion:252 Resp: 988333

Ion Ratio Lower Upper

252 100

253 22.0 17.4 26.0

125 8.6 6.6 9.8



#91

Dibenzo(a,h)anthracene

Concen: 2.337 ng

RT: 27.785 min Scan# 4216

Delta R.T. -0.065 min

Lab File: BM050068.D

Acq: 01 May 2025 17:23

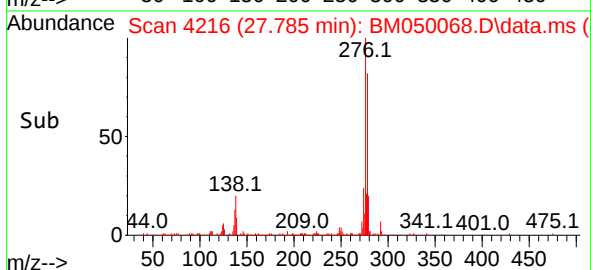
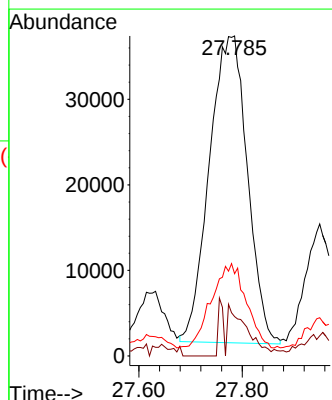
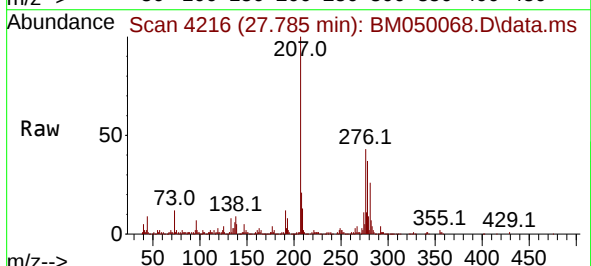
Tgt Ion:278 Resp: 183030

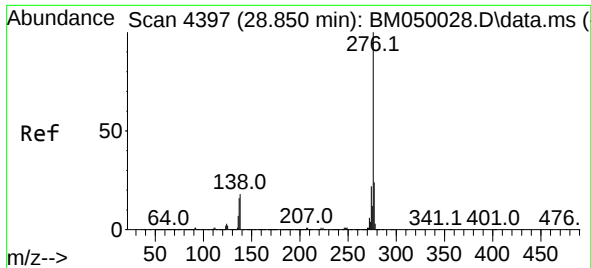
Ion Ratio Lower Upper

278 100

139 12.3 10.5 15.7

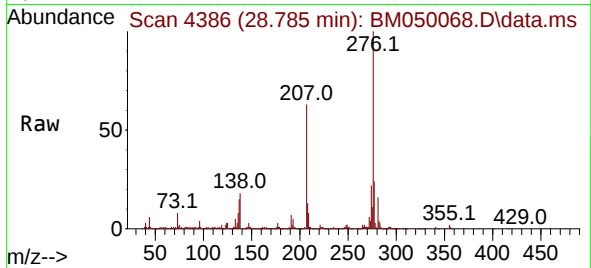
279 25.7 19.4 29.0





#92
 Benzo(g,h,i)perylene
 Concen: 9.640 ng
 RT: 28.785 min Scan# 41
 Delta R.T. -0.065 min
 Lab File: BM050068.D
 Acq: 01 May 2025 17:23

Instrument :
 BNA_M
 ClientSampleId :
 MH-H



Tgt Ion:276 Resp: 722878
 Ion Ratio Lower Upper
 276 100
 277 23.8 19.1 28.7
 138 18.1 14.3 21.5

