

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM050625\
 Data File : BM050121.D
 Acq On : 06 May 2025 15:59
 Operator : RC/JU
 Sample : Q1952-01
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 CLEAN-FILL

Quant Time: May 06 16:40:47 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)

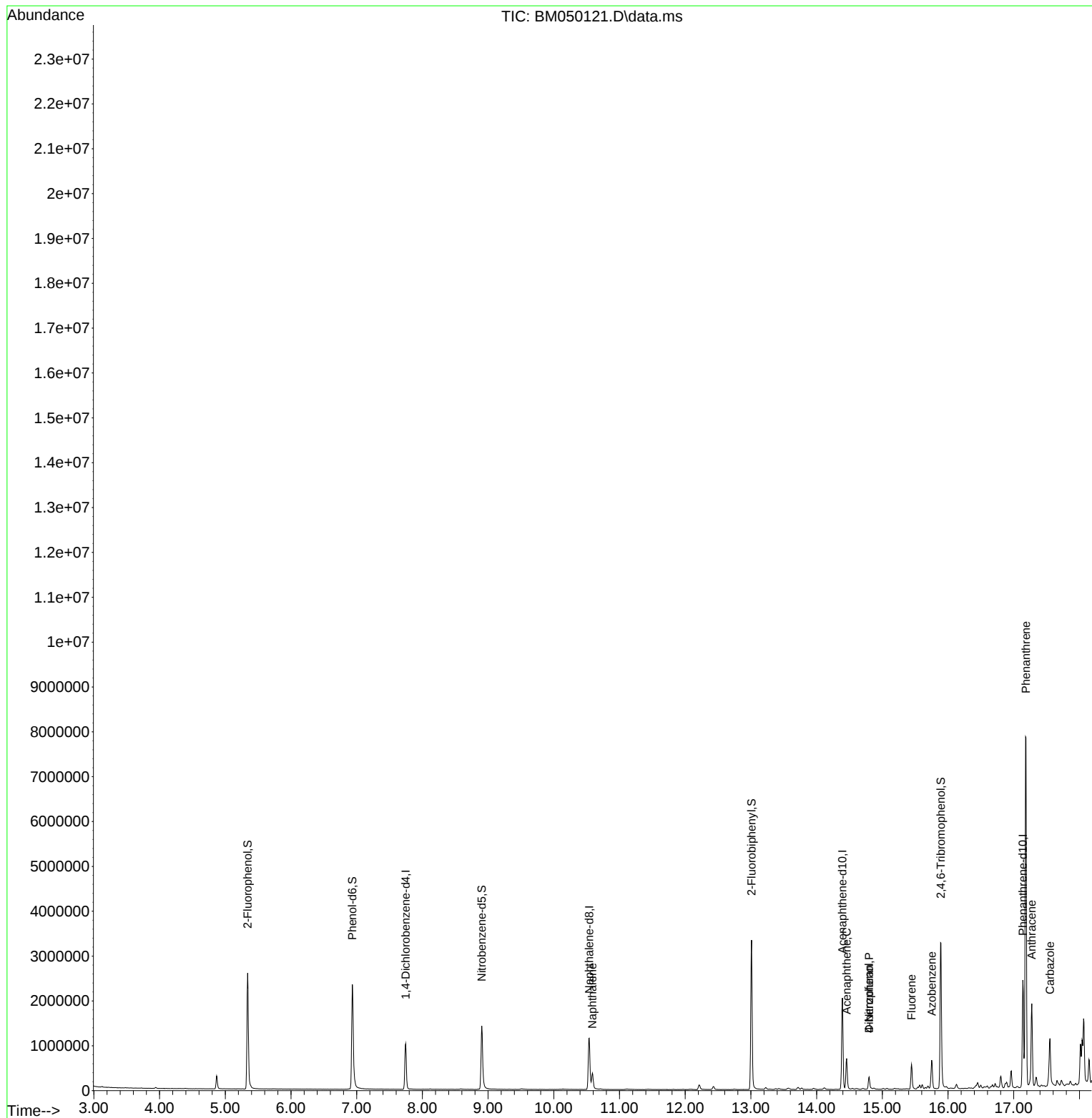
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.746	152	309609	20.000	ng	-0.02
21) Naphthalene-d8	10.540	136	1119641	20.000	ng	-0.02
39) Acenaphthene-d10	14.392	164	741814	20.000	ng	-0.02
64) Phenanthrene-d10	17.139	188	1461412	20.000	ng	-0.02
76) Chrysene-d12	21.386	240	1416901	20.000	ng	-0.01
86) Perylene-d12	24.380	264	1371510	20.000	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.340	112	1271958	71.939	ng	-0.02
7) Phenol-d6	6.934	99	1671531	75.217	ng	-0.02
23) Nitrobenzene-d5	8.904	82	948088	41.726	ng	-0.02
42) 2,4,6-Tribromophenol	15.892	330	710391	64.765	ng	-0.01
45) 2-Fluorobiphenyl	13.010	172	1890348	30.146	ng	-0.02
79) Terphenyl-d14	19.768	244	2320300	24.232	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	10.587	128	317643	5.602	ng	99
52) Acenaphthene	14.457	154	255186	6.402	ng	99
55) Dibenzofuran	14.798	168	206382	3.112	ng	99
56) 4-Nitrophenol	14.798	139	70957	12.212	ng	# 14
58) Fluorene	15.445	166	260661	4.802	ng	98
63) Azobenzene	15.751	77	164352	3.839	ng	# 1
71) Phenanthrene	17.186	178	4950790	60.064	ng	99
72) Anthracene	17.274	178	1184971	14.206	ng	99
73) Carbazole	17.551	167	709840	9.807	ng	100
75) Fluoranthene	19.204	202	12095775	124.992	ng	98
78) Pyrene	19.568	202	9945472	99.955	ng	98
81) Benzo(a)anthracene	21.374	228	7001584	71.758	ng	98
83) Chrysene	21.433	228	5789346	64.109	ng	96
87) Indeno(1,2,3-cd)pyrene	27.780	276	3072202	30.062	ng	97
88) Benzo(b)fluoranthene	23.451	252	7763794	87.045	ng	98
89) Benzo(k)fluoranthene	23.498	252	2389096	26.480	ng	97
90) Benzo(a)pyrene	24.250	252	4890928	58.547	ng	97
92) Benzo(g,h,i)perylene	28.827	276	2730522	34.237	ng	99

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

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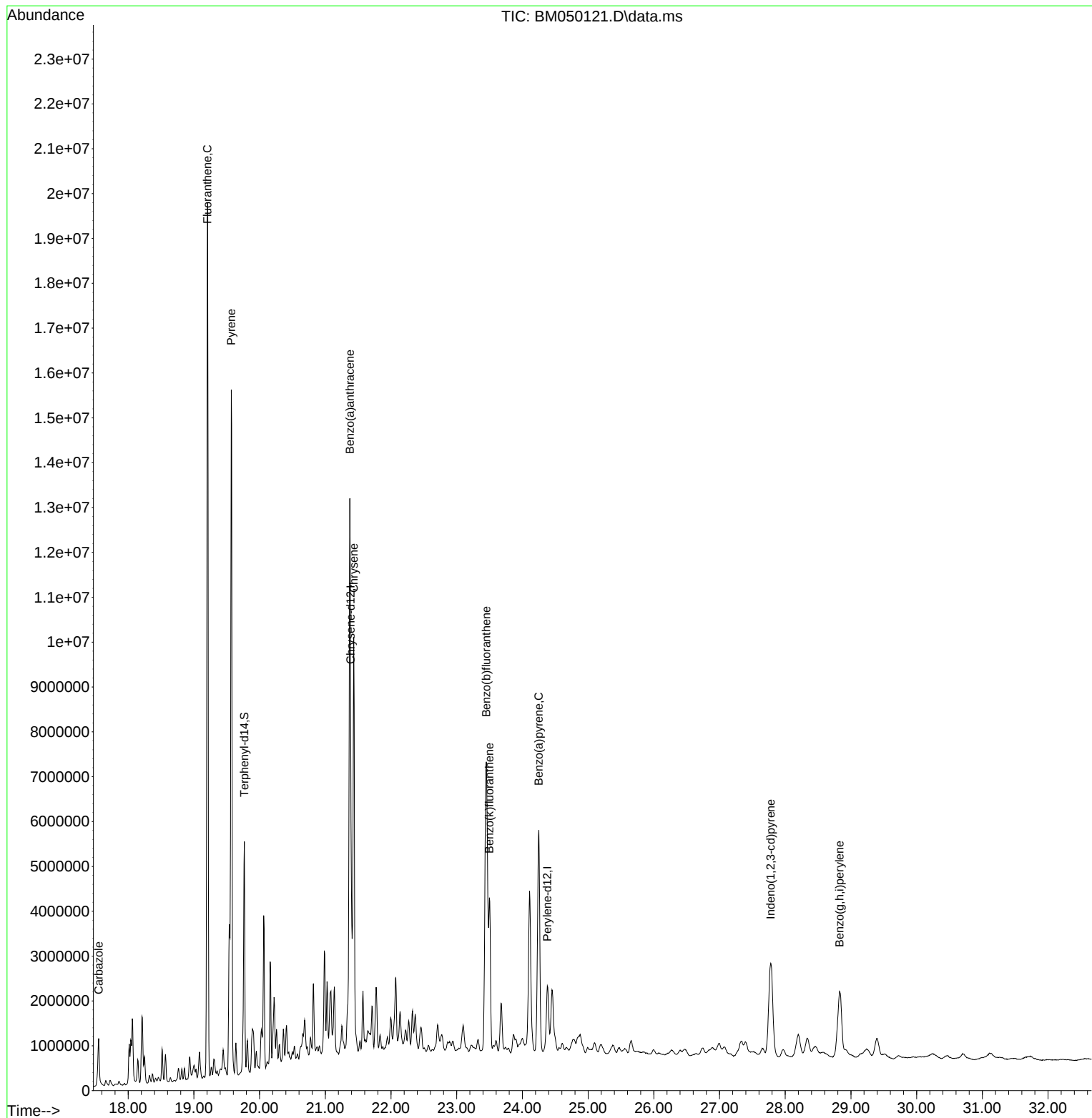
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Acq On : 06 May 2025 15:59
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Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM042825.M
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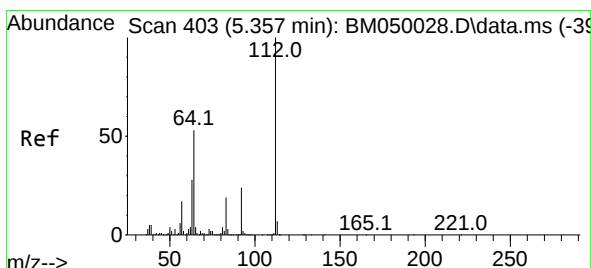
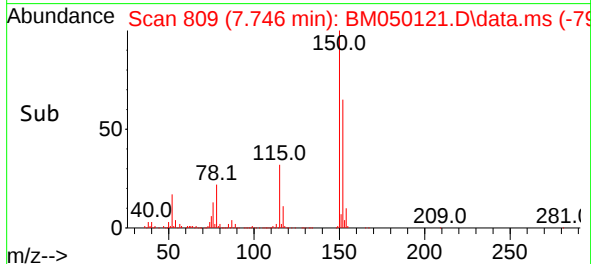
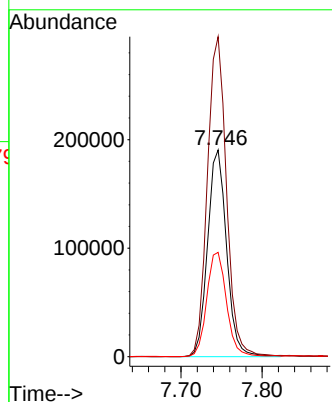
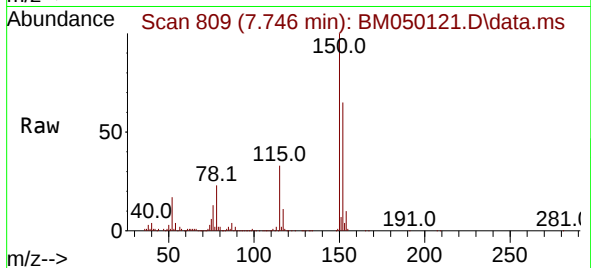




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.746 min Scan# 809
Delta R.T. -0.023 min
Lab File: BM050121.D
Acq: 06 May 2025 15:59

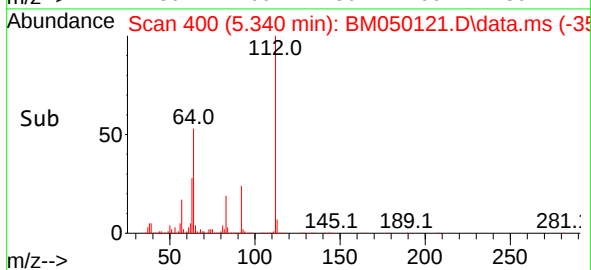
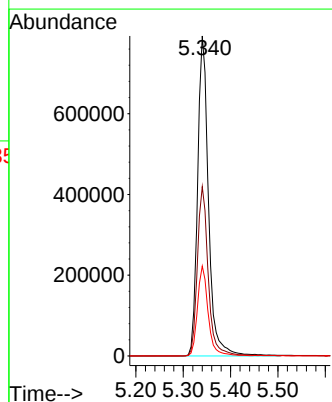
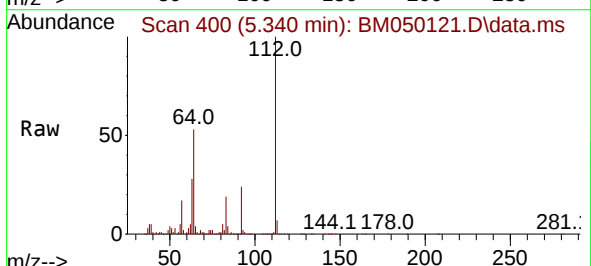
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BNA_M
ClientSampleId :
CLEAN-FILL

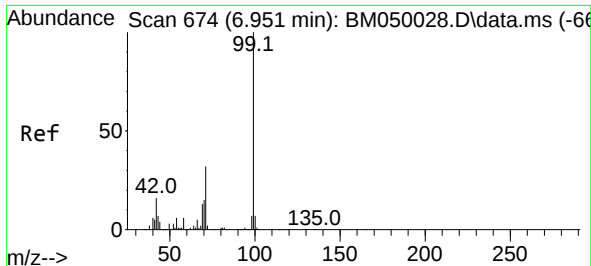
Tgt Ion:152 Resp: 309609
Ion Ratio Lower Upper
152 100
150 154.8 124.1 186.1
115 50.5 41.2 61.8



#5
2-Fluorophenol
Concen: 71.939 ng
RT: 5.340 min Scan# 400
Delta R.T. -0.017 min
Lab File: BM050121.D
Acq: 06 May 2025 15:59

Tgt Ion:112 Resp: 1271958
Ion Ratio Lower Upper
112 100
64 52.9 42.6 64.0
63 28.1 22.2 33.4

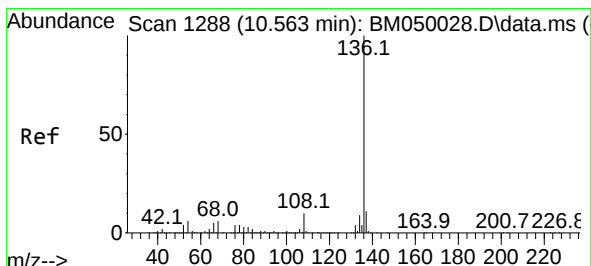
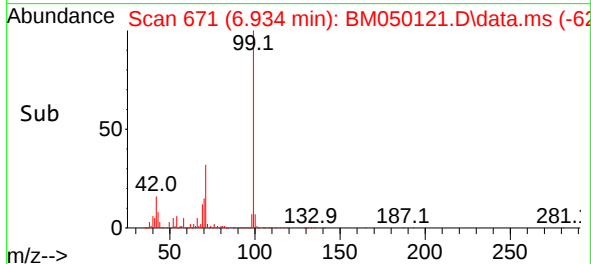
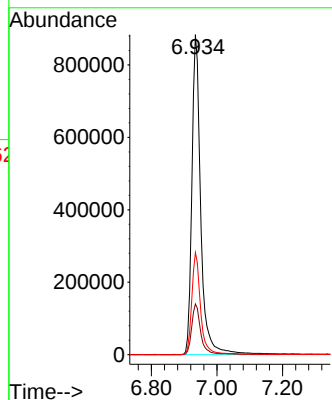
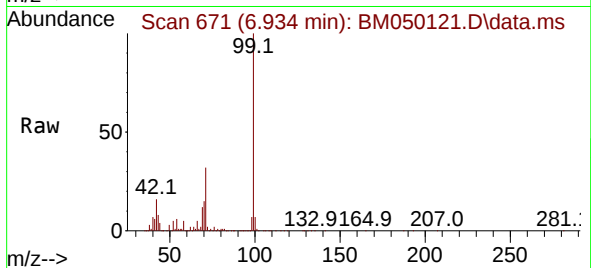




#7
Phenol-d6
Concen: 75.217 ng
RT: 6.934 min Scan# 61
Delta R.T. -0.017 min
Lab File: BM050121.D
Acq: 06 May 2025 15:59

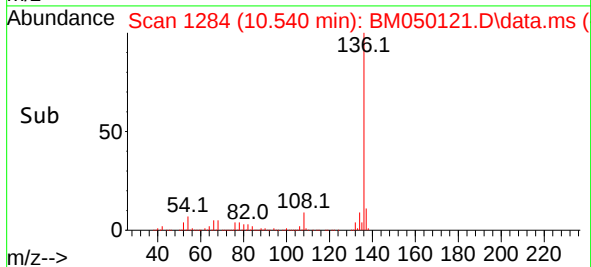
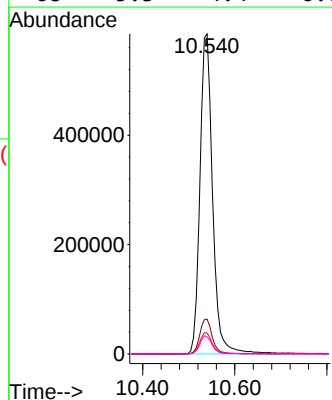
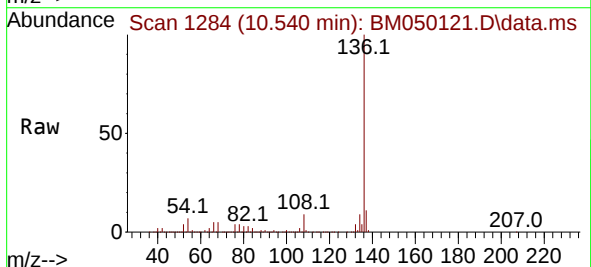
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BNA_M
ClientSampleId :
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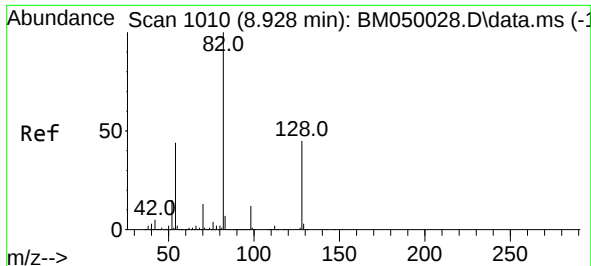
Tgt Ion: 99 Resp: 1671531
Ion Ratio Lower Upper
99 100
42 15.8 13.0 19.4
71 31.9 25.6 38.4



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.540 min Scan# 1284
Delta R.T. -0.023 min
Lab File: BM050121.D
Acq: 06 May 2025 15:59

Tgt Ion: 136 Resp: 1119641
Ion Ratio Lower Upper
136 100
137 10.9 8.9 13.3
54 6.6 5.1 7.7
68 5.3 4.4 6.6

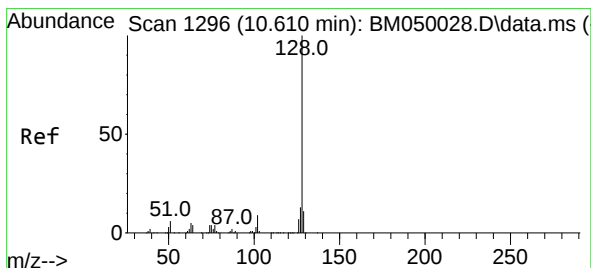
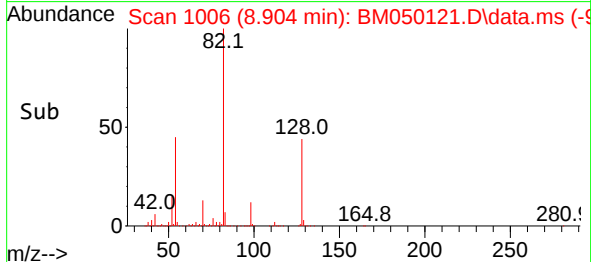
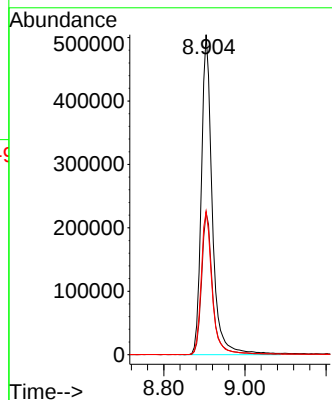
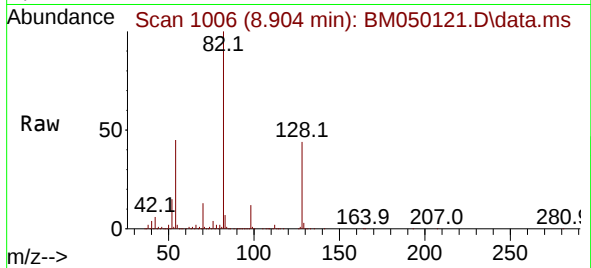




#23
Nitrobenzene-d5
Concen: 41.726 ng
RT: 8.904 min Scan# 1006
Delta R.T. -0.023 min
Lab File: BM050121.D
Acq: 06 May 2025 15:59

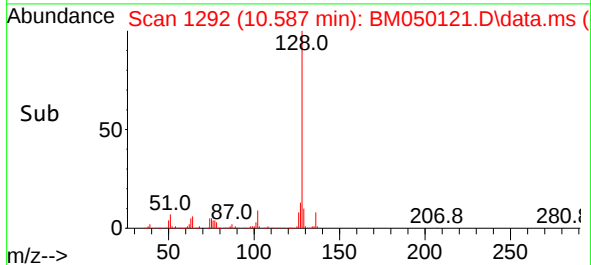
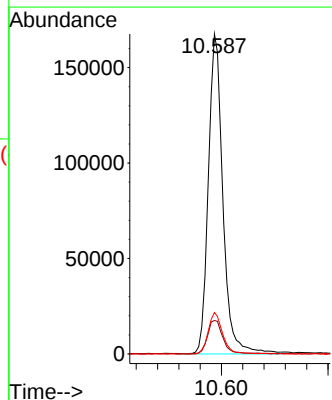
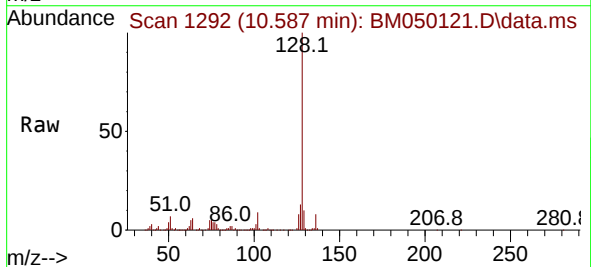
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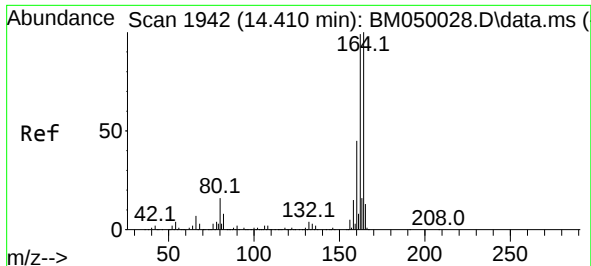
Tgt Ion: 82 Resp: 948088
Ion Ratio Lower Upper
82 100
128 44.5 35.7 53.5
54 44.7 35.4 53.2



#31
Naphthalene
Concen: 5.602 ng
RT: 10.587 min Scan# 1292
Delta R.T. -0.023 min
Lab File: BM050121.D
Acq: 06 May 2025 15:59

Tgt Ion: 128 Resp: 317643
Ion Ratio Lower Upper
128 100
129 10.5 8.8 13.2
127 12.9 10.4 15.6

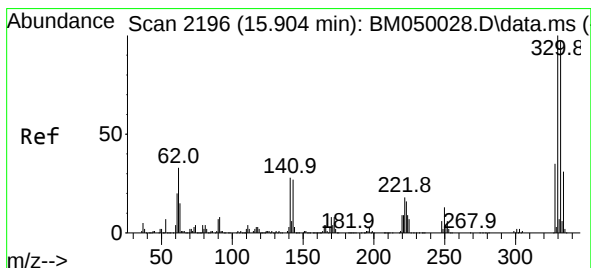
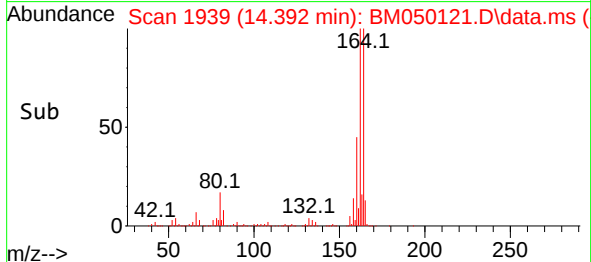
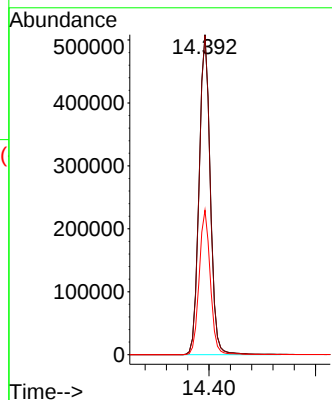
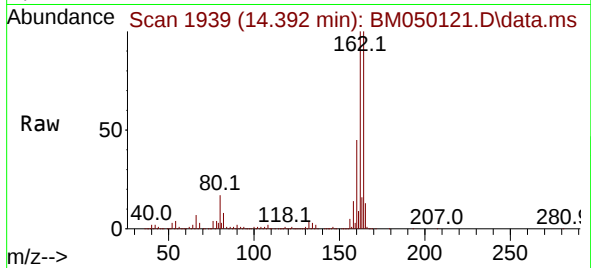




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.392 min Scan# 1939
Delta R.T. -0.018 min
Lab File: BM050121.D
Acq: 06 May 2025 15:59

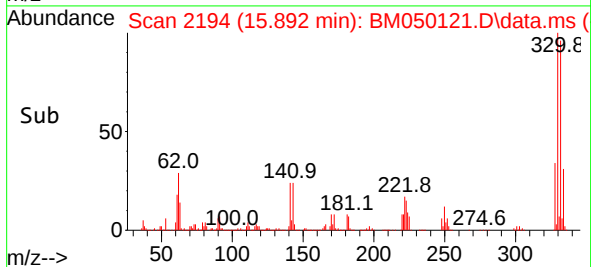
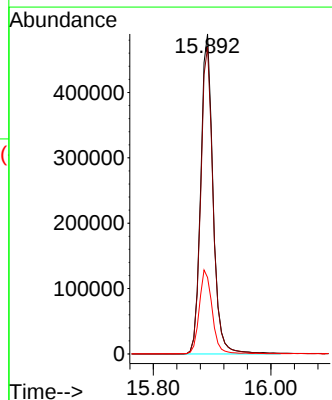
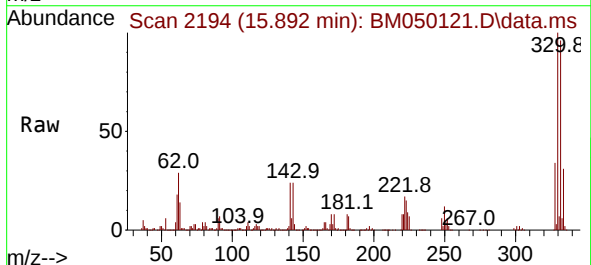
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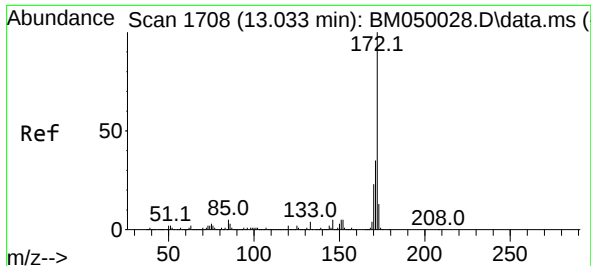
Tgt Ion:164 Resp: 741814
Ion Ratio Lower Upper
164 100
162 99.8 79.4 119.0
160 45.1 36.2 54.4



#42
2,4,6-Tribromophenol
Concen: 64.765 ng
RT: 15.892 min Scan# 2194
Delta R.T. -0.012 min
Lab File: BM050121.D
Acq: 06 May 2025 15:59

Tgt Ion:330 Resp: 710391
Ion Ratio Lower Upper
330 100
332 96.6 77.3 115.9
141 27.4 22.5 33.7

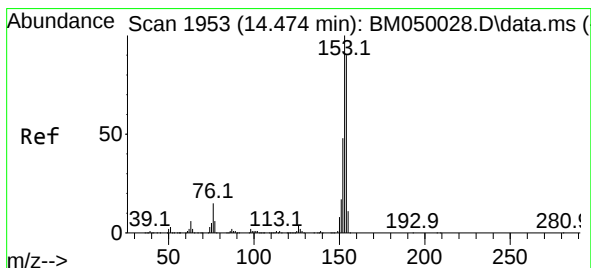
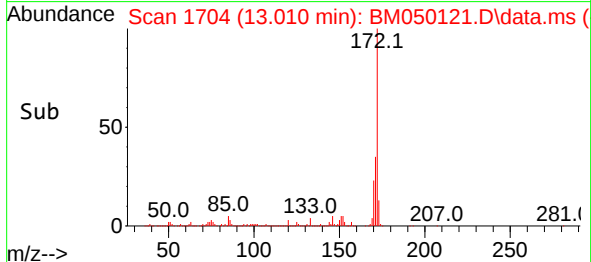
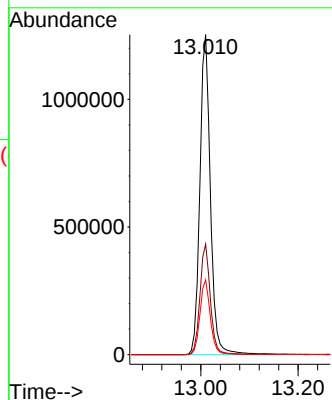
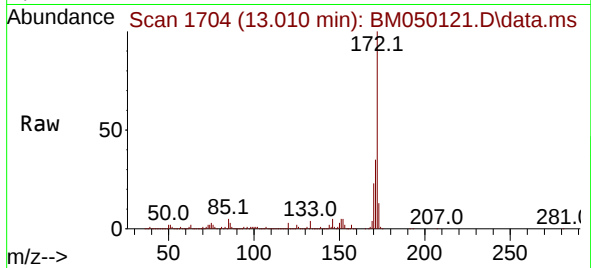




#45
2-Fluorobiphenyl
Concen: 30.146 ng
RT: 13.010 min Scan# 1704
Delta R.T. -0.023 min
Lab File: BM050121.D
Acq: 06 May 2025 15:59

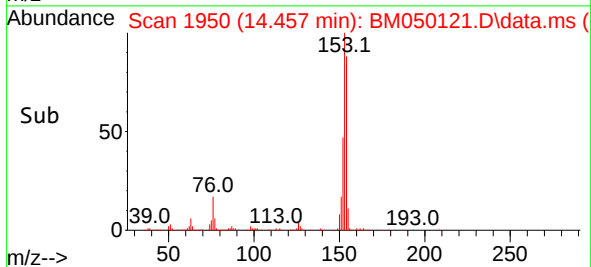
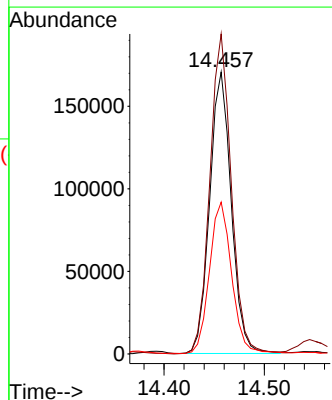
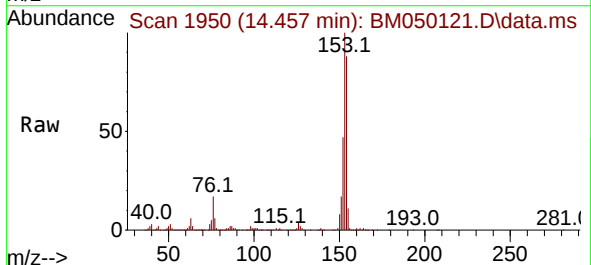
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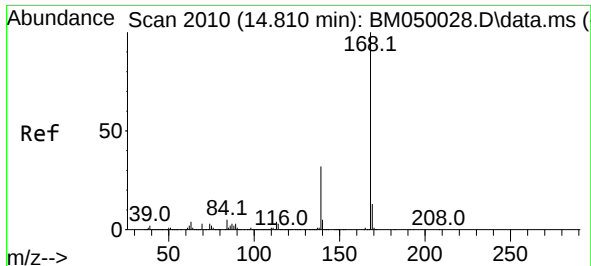
Tgt Ion:172 Resp: 1890348
Ion Ratio Lower Upper
172 100
171 34.6 27.8 41.6
170 23.4 18.6 28.0



#52
Acenaphthene
Concen: 6.402 ng
RT: 14.457 min Scan# 1950
Delta R.T. -0.017 min
Lab File: BM050121.D
Acq: 06 May 2025 15:59

Tgt Ion:154 Resp: 255186
Ion Ratio Lower Upper
154 100
153 113.5 89.0 133.4
152 53.8 43.0 64.6

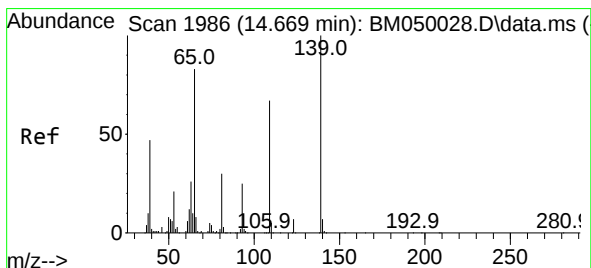
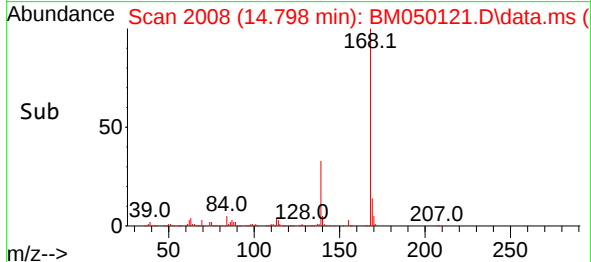
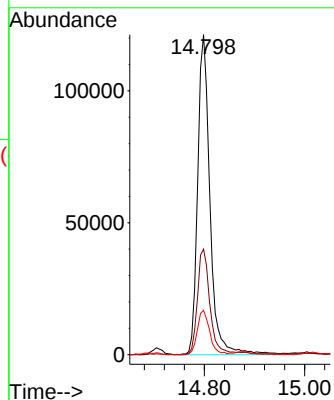
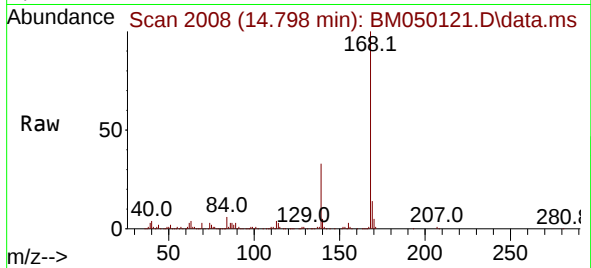




#55
Dibenzenofuran
Concen: 3.112 ng
RT: 14.798 min Scan# 2010
Delta R.T. -0.012 min
Lab File: BM050121.D
Acq: 06 May 2025 15:59

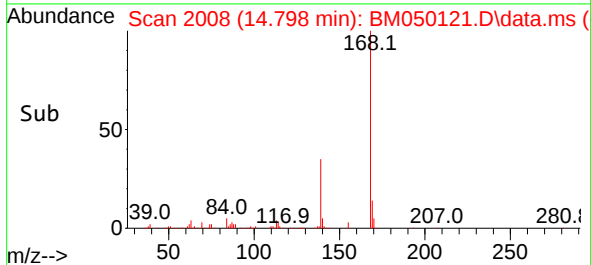
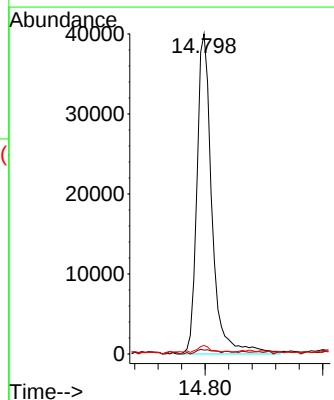
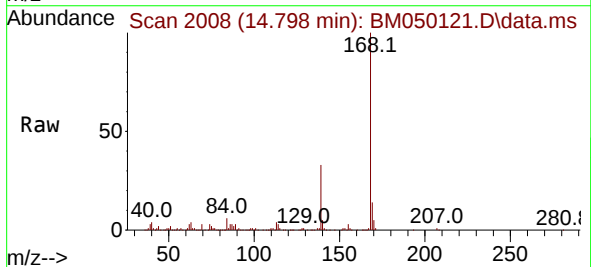
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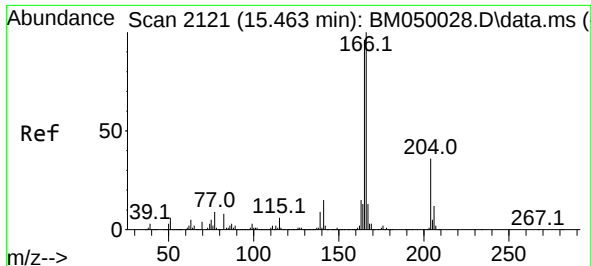
Tgt Ion:168 Resp: 206382
Ion Ratio Lower Upper
168 100
139 33.0 26.1 39.1
169 13.9 10.8 16.2



#56
4-Nitrophenol
Concen: 12.212 ng
RT: 14.798 min Scan# 2008
Delta R.T. 0.129 min
Lab File: BM050121.D
Acq: 06 May 2025 15:59

Tgt Ion:139 Resp: 70957
Ion Ratio Lower Upper
139 100
109 1.2 47.0 87.0#
65 2.6 64.3 104.3#

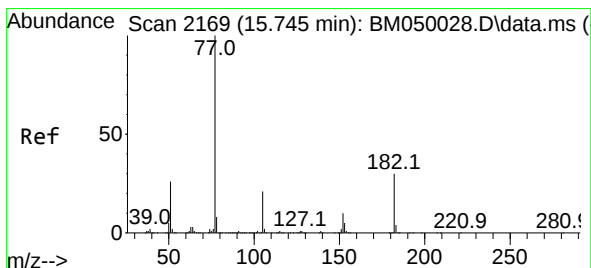
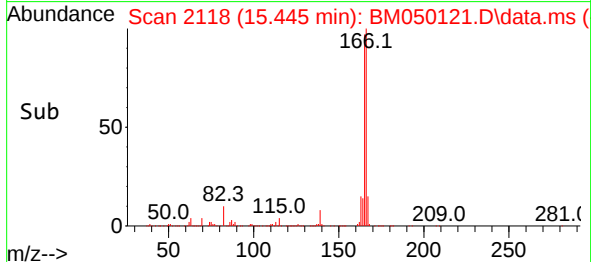
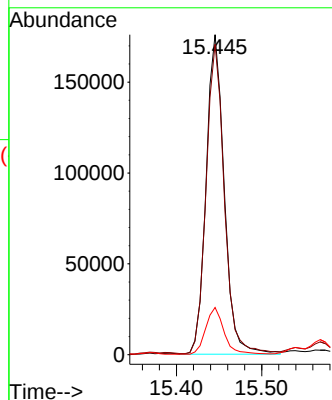
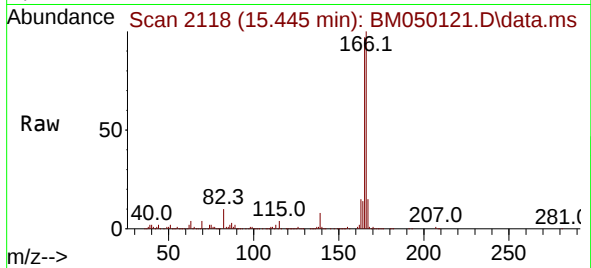




#58
 Fluorene
 Concen: 4.802 ng
 RT: 15.445 min Scan# 2118
 Delta R.T. -0.017 min
 Lab File: BM050121.D
 Acq: 06 May 2025 15:59

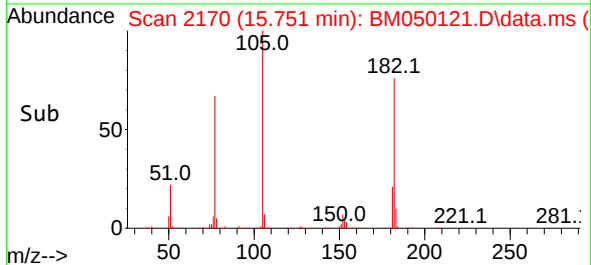
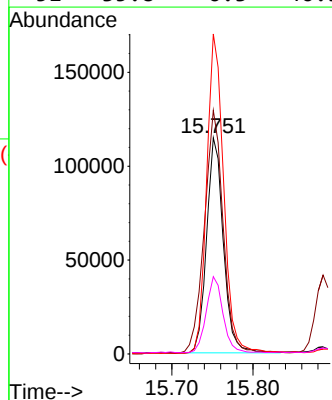
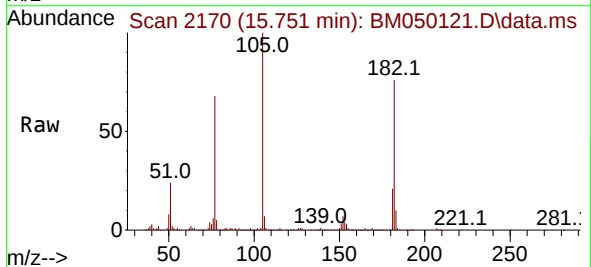
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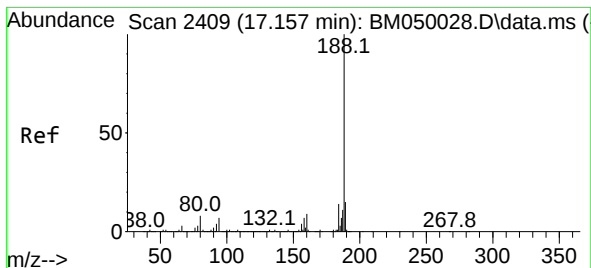
Tgt Ion:166 Resp: 260661
 Ion Ratio Lower Upper
 166 100
 165 97.0 76.6 115.0
 167 14.8 10.6 16.0



#63
 Azobenzene
 Concen: 3.839 ng
 RT: 15.751 min Scan# 2170
 Delta R.T. 0.006 min
 Lab File: BM050121.D
 Acq: 06 May 2025 15:59

Tgt Ion: 77 Resp: 164352
 Ion Ratio Lower Upper
 77 100
 182 112.7 10.5 50.5#
 105 148.1 1.1 41.1#
 51 35.8 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: BM050121.D

Acq: 06 May 2025 15:59

Instrument :

BNA_M

ClientSampleId :

CLEAN-FILL

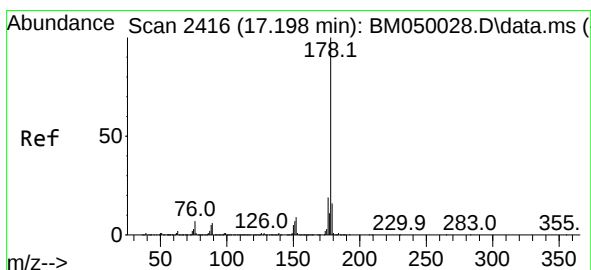
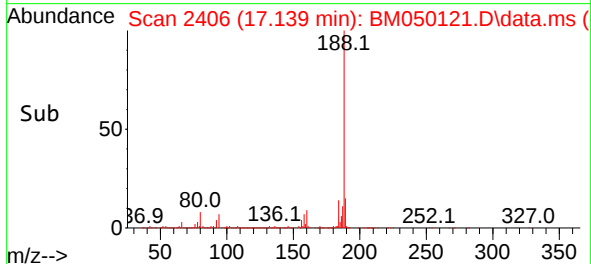
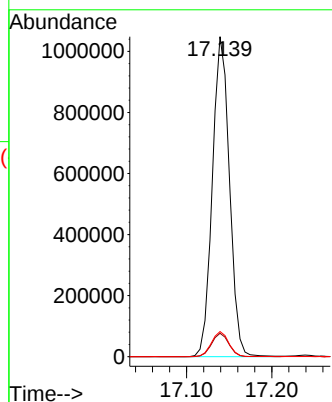
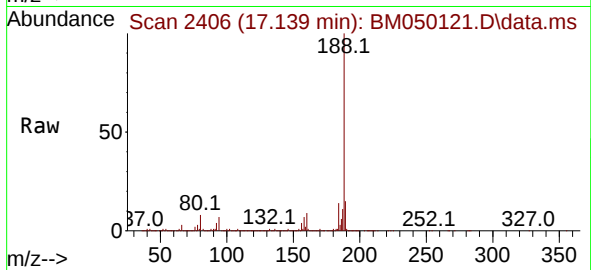
Tgt Ion:188 Resp: 1461412

Ion Ratio Lower Upper

188 100

94 7.3 5.7 8.5

80 7.8 6.2 9.4



#71

Phenanthrene

Concen: 60.064 ng

RT: 17.186 min Scan# 2414

Delta R.T. -0.012 min

Lab File: BM050121.D

Acq: 06 May 2025 15:59

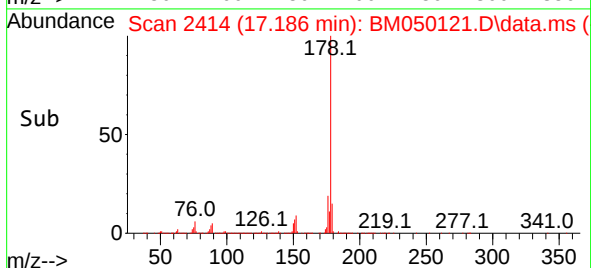
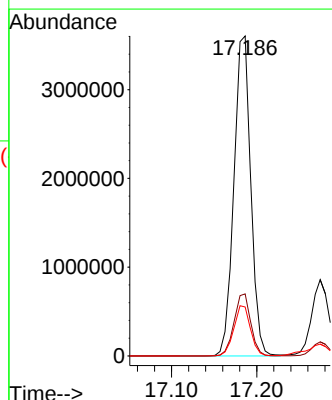
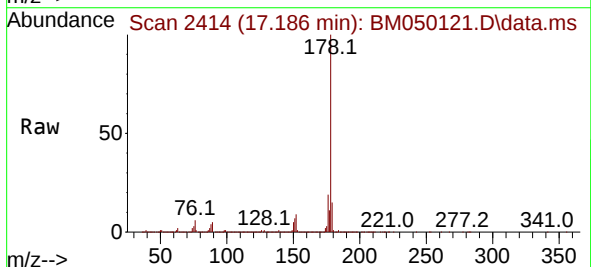
Tgt Ion:178 Resp: 4950790

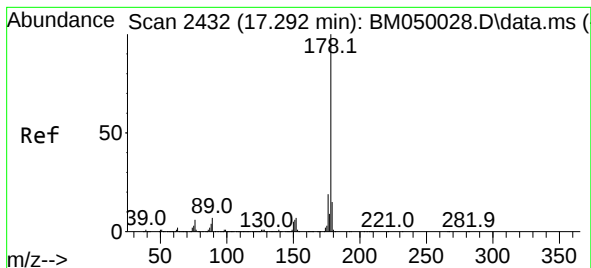
Ion Ratio Lower Upper

178 100

176 19.4 15.3 22.9

179 15.3 12.4 18.6





#72

Anthracene

Concen: 14.206 ng

RT: 17.274 min Scan# 24

Delta R.T. -0.017 min

Lab File: BM050121.D

Acq: 06 May 2025 15:59

Instrument :

BNA_M

ClientSampleId :

CLEAN-FILL

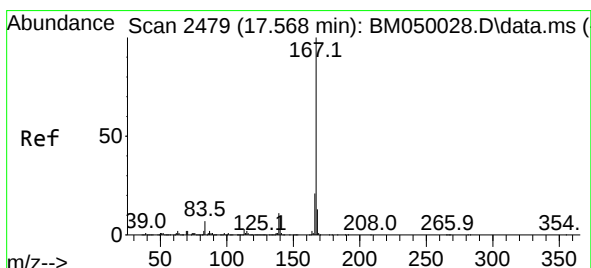
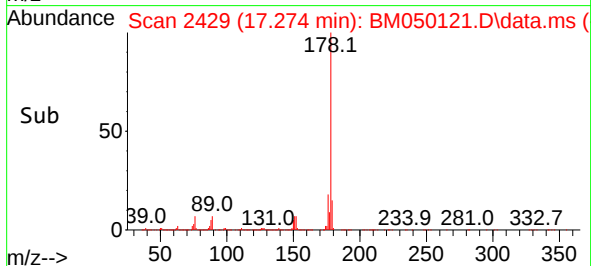
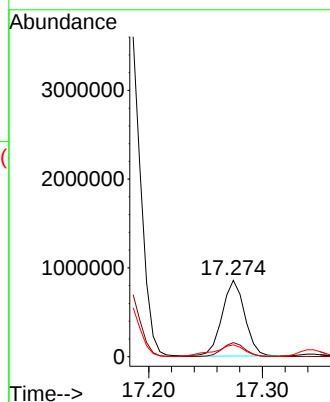
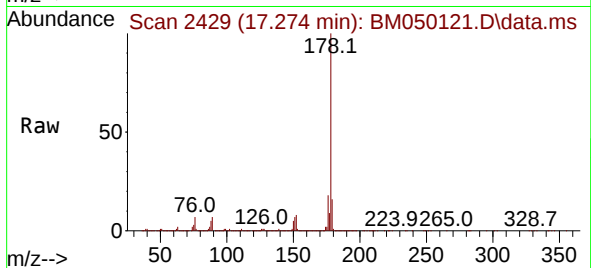
Tgt Ion:178 Resp: 1184971

Ion Ratio Lower Upper

178 100

176 18.5 15.0 22.4

179 15.5 12.2 18.4



#73

Carbazole

Concen: 9.807 ng

RT: 17.551 min Scan# 2476

Delta R.T. -0.017 min

Lab File: BM050121.D

Acq: 06 May 2025 15:59

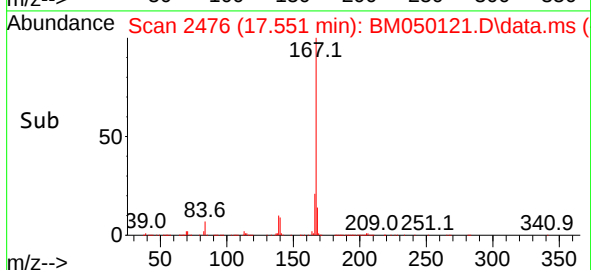
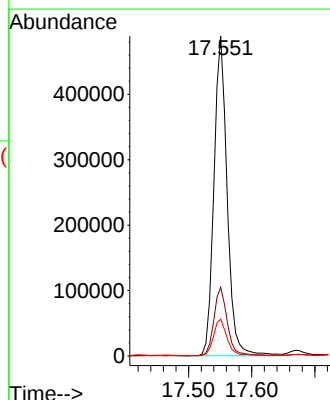
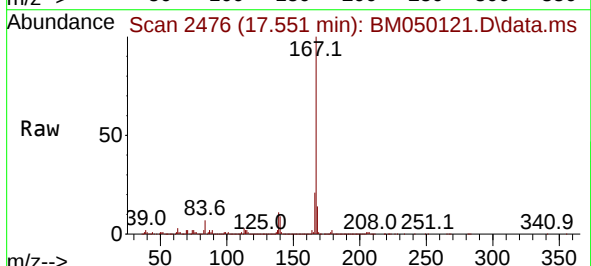
Tgt Ion:167 Resp: 709840

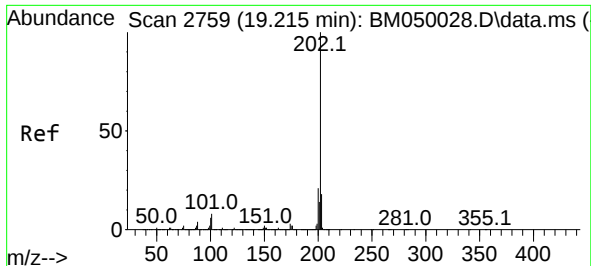
Ion Ratio Lower Upper

167 100

166 21.4 17.2 25.8

139 11.5 9.0 13.6

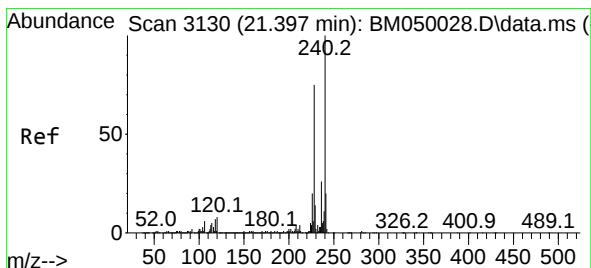
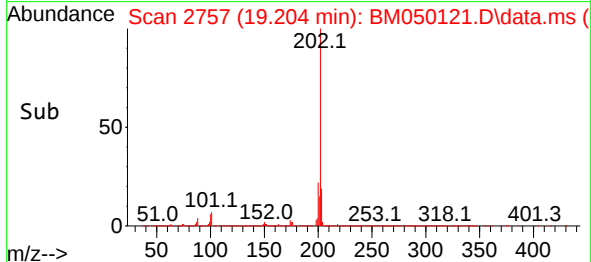
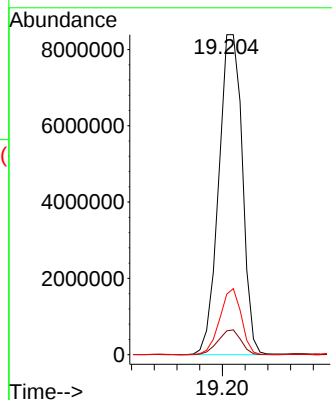
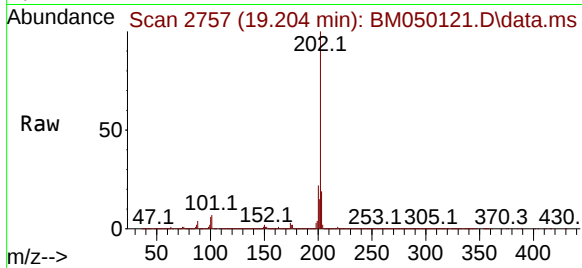




#75
Fluoranthene
Concen: 124.992 ng
RT: 19.204 min Scan# 21
Delta R.T. -0.012 min
Lab File: BM050121.D
Acq: 06 May 2025 15:59

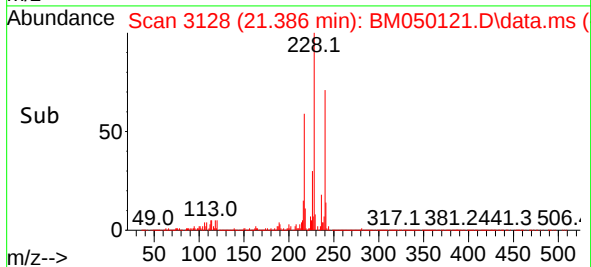
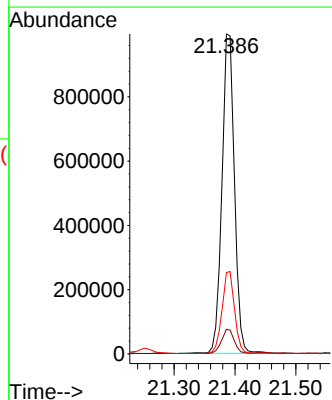
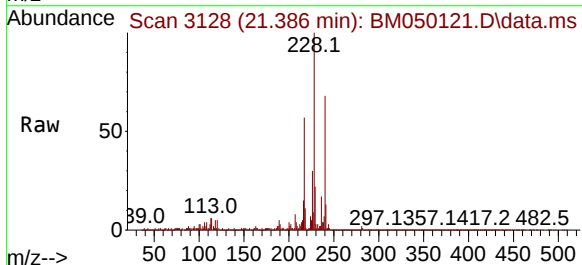
Instrument :
BNA_M
ClientSampleId :
CLEAN-FILL

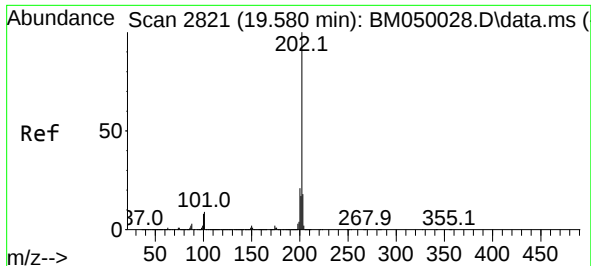
Tgt Ion:202 Resp:12095775
Ion Ratio Lower Upper
202 100
101 7.5 0.0 28.0
203 18.9 0.0 37.7



#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.386 min Scan# 3128
Delta R.T. -0.011 min
Lab File: BM050121.D
Acq: 06 May 2025 15:59

Tgt Ion:240 Resp: 1416901
Ion Ratio Lower Upper
240 100
120 7.7 6.5 9.7
236 25.4 20.9 31.3

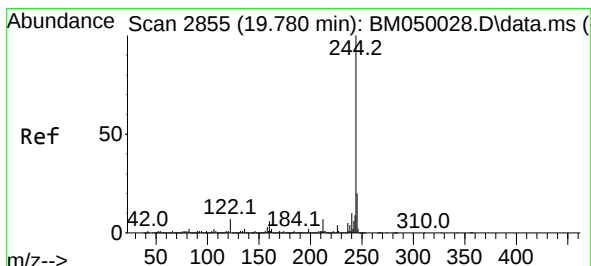
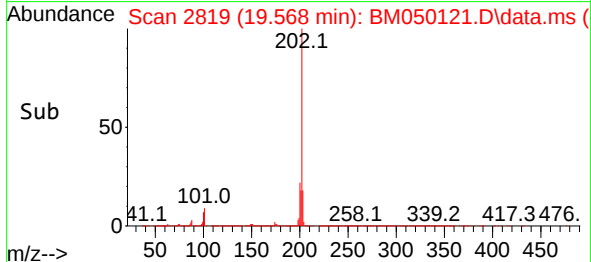
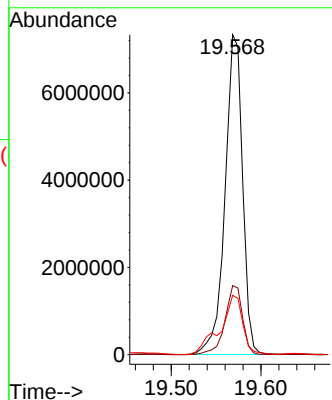
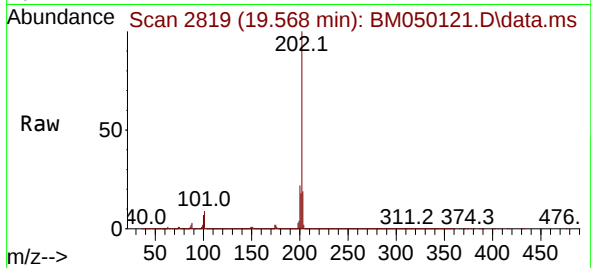




#78
 Pyrene
 Concen: 99.955 ng
 RT: 19.568 min Scan# 21
 Delta R.T. -0.012 min
 Lab File: BM050121.D
 Acq: 06 May 2025 15:59

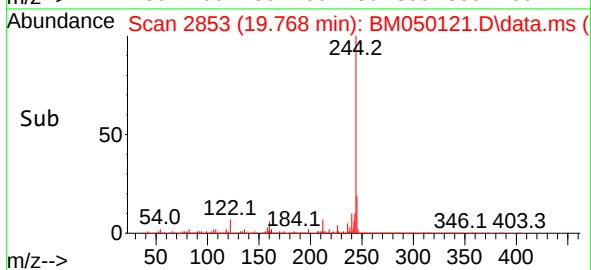
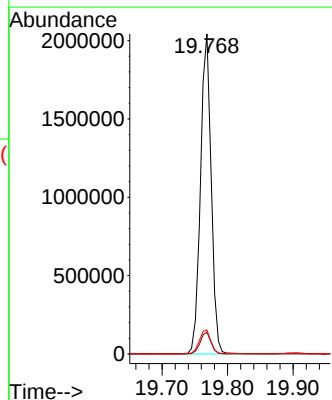
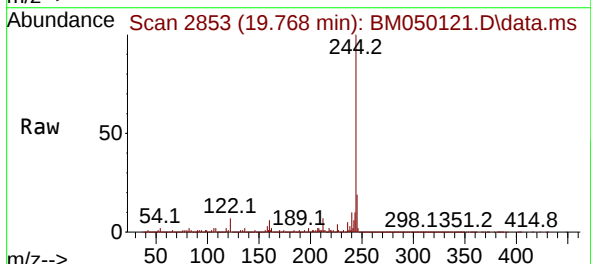
Instrument :
 BNA_M
 ClientSampleId :
 CLEAN-FILL

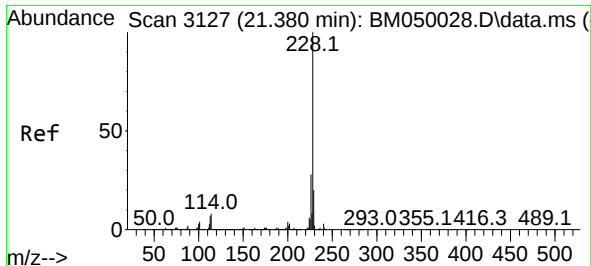
Tgt Ion:202 Resp: 9945472
 Ion Ratio Lower Upper
 202 100
 200 21.6 16.7 25.1
 203 18.5 14.1 21.1



#79
 Terphenyl-d14
 Concen: 24.232 ng
 RT: 19.768 min Scan# 2853
 Delta R.T. -0.012 min
 Lab File: BM050121.D
 Acq: 06 May 2025 15:59

Tgt Ion:244 Resp: 2320300
 Ion Ratio Lower Upper
 244 100
 212 6.8 5.6 8.4
 122 7.5 5.6 8.4

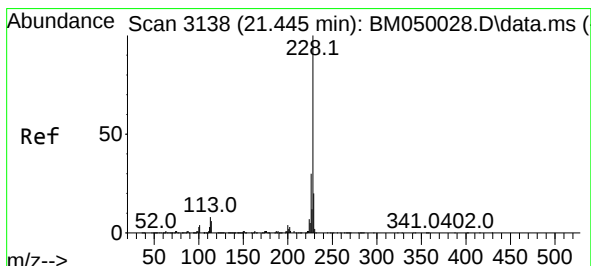
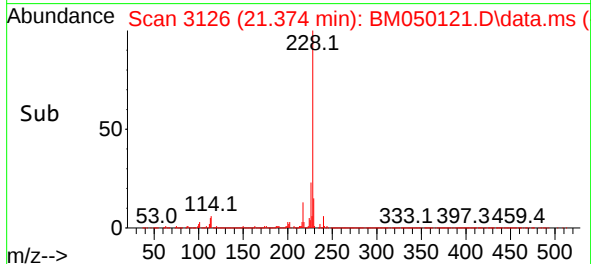
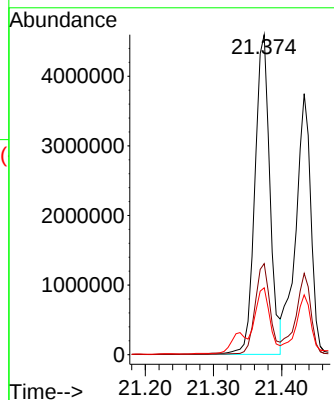
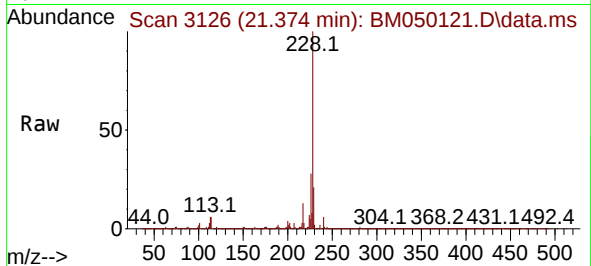




#81
Benzo(a)anthracene
Concen: 71.758 ng
RT: 21.374 min Scan# 3126
Delta R.T. -0.006 min
Lab File: BM050121.D
Acq: 06 May 2025 15:59

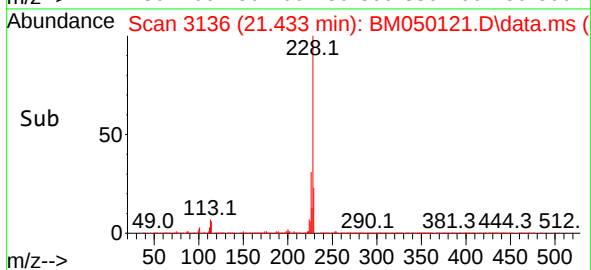
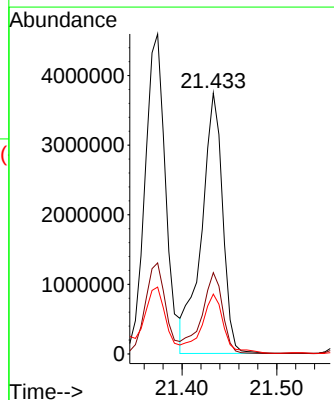
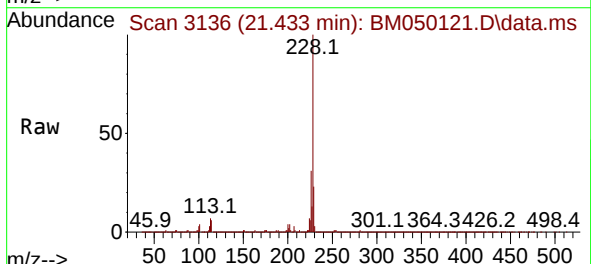
Instrument :
BNA_M
ClientSampleId :
CLEAN-FILL

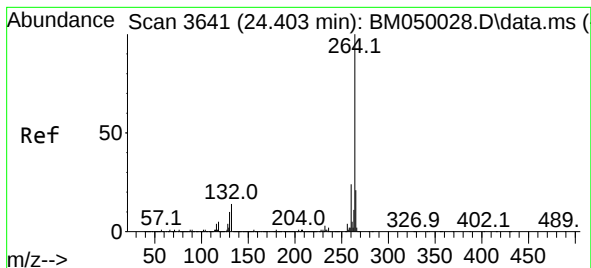
Tgt Ion:228 Resp: 7001584
Ion Ratio Lower Upper
228 100
226 28.5 22.1 33.1
229 20.9 15.7 23.5



#83
Chrysene
Concen: 64.109 ng
RT: 21.433 min Scan# 3136
Delta R.T. -0.012 min
Lab File: BM050121.D
Acq: 06 May 2025 15:59

Tgt Ion:228 Resp: 5789346
Ion Ratio Lower Upper
228 100
226 31.1 24.2 36.2
229 23.0 15.7 23.5





#86

Perylene-d12

Concen: 20.000 ng

RT: 24.380 min Scan# 3

Delta R.T. -0.023 min

Lab File: BM050121.D

Acq: 06 May 2025 15:59

Instrument :

BNA_M

ClientSampleId :

CLEAN-FILL

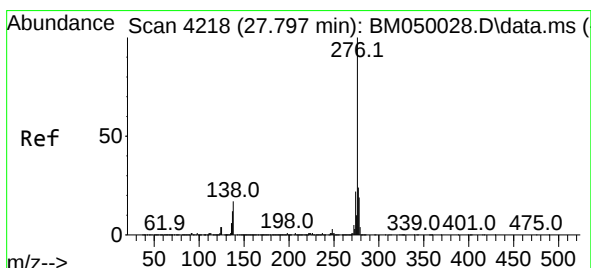
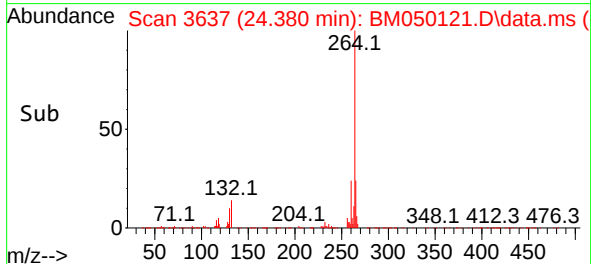
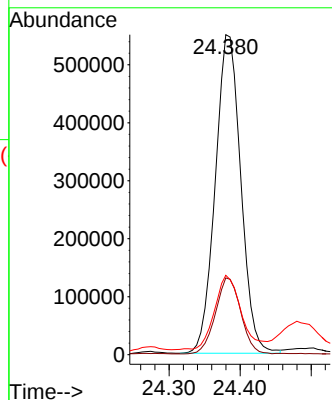
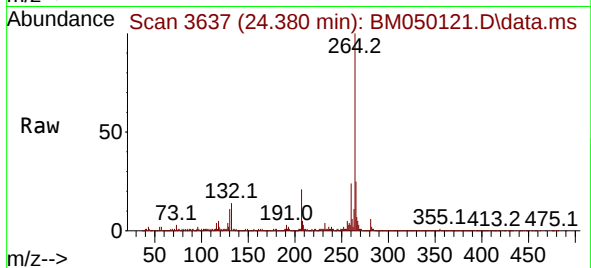
Tgt Ion:264 Resp: 1371510

Ion Ratio Lower Upper

264 100

260 24.0 18.8 28.2

265 24.8 17.0 25.4



#87

Indeno(1,2,3-cd)pyrene

Concen: 30.062 ng

RT: 27.780 min Scan# 4215

Delta R.T. -0.017 min

Lab File: BM050121.D

Acq: 06 May 2025 15:59

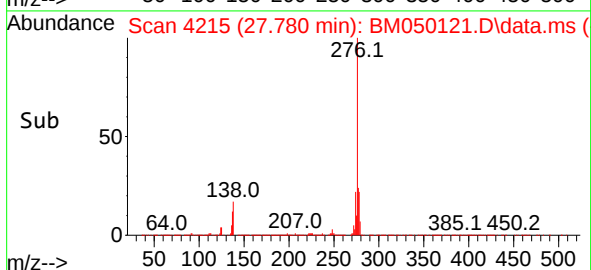
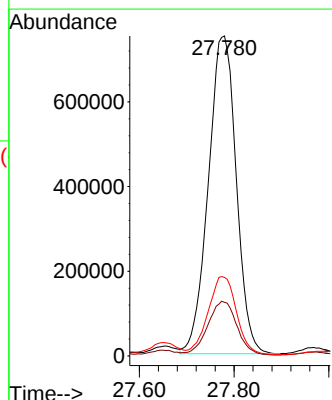
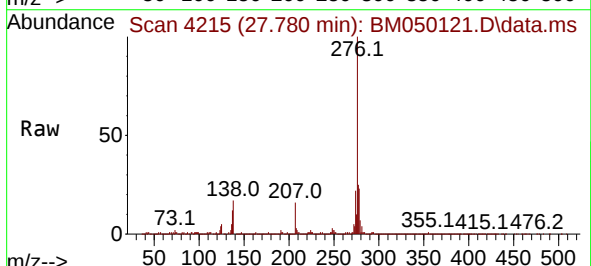
Tgt Ion:276 Resp: 3072202

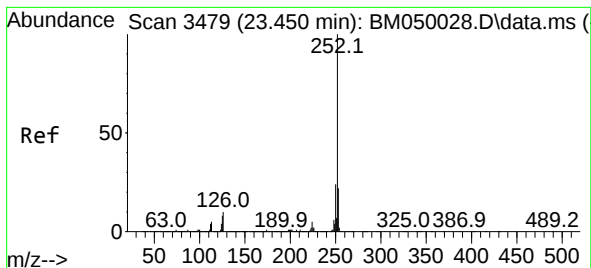
Ion Ratio Lower Upper

276 100

138 17.6 16.4 24.6

277 25.1 19.8 29.8





#88

Benzo(b)fluoranthene

Concen: 87.045 ng

RT: 23.451 min Scan# 3479

Delta R.T. 0.000 min

Lab File: BM050121.D

Acq: 06 May 2025 15:59

Instrument :

BNA_M

ClientSampleId :

CLEAN-FILL

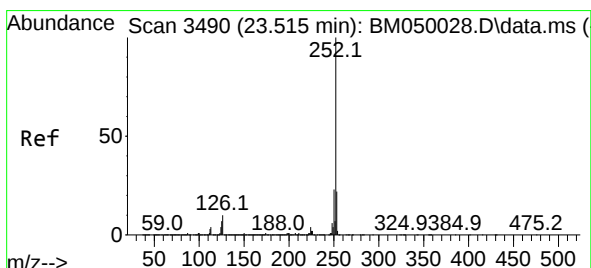
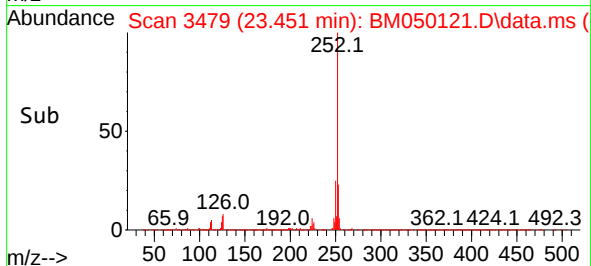
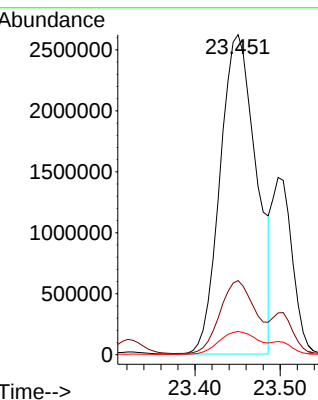
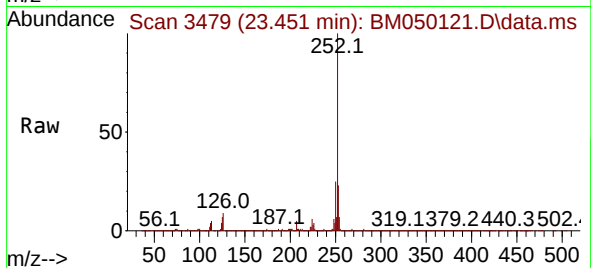
Tgt Ion:252 Resp: 7763794

Ion Ratio Lower Upper

252 100

253 23.2 17.7 26.5

125 7.3 6.1 9.1



#89

Benzo(k)fluoranthene

Concen: 26.480 ng

RT: 23.498 min Scan# 3487

Delta R.T. -0.017 min

Lab File: BM050121.D

Acq: 06 May 2025 15:59

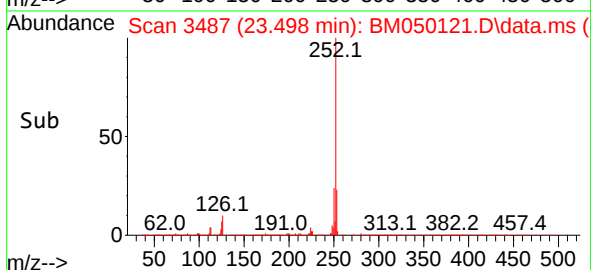
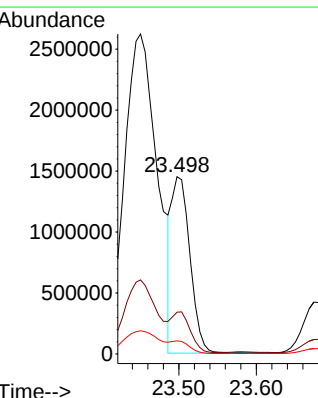
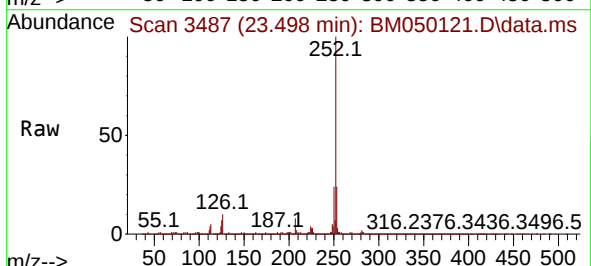
Tgt Ion:252 Resp: 2389096

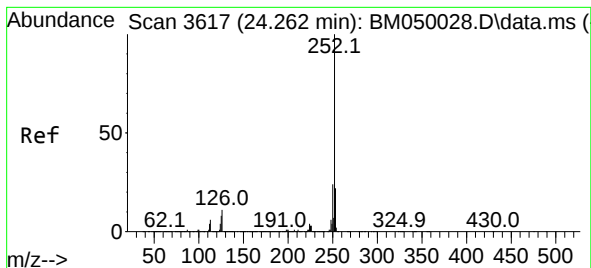
Ion Ratio Lower Upper

252 100

253 23.6 17.4 26.2

125 7.4 5.8 8.8





#90

Benzo(a)pyrene

Concen: 58.547 ng

RT: 24.250 min Scan# 3

Delta R.T. -0.012 min

Lab File: BM050121.D

Acq: 06 May 2025 15:59

Instrument :

BNA_M

ClientSampleId :

CLEAN-FILL

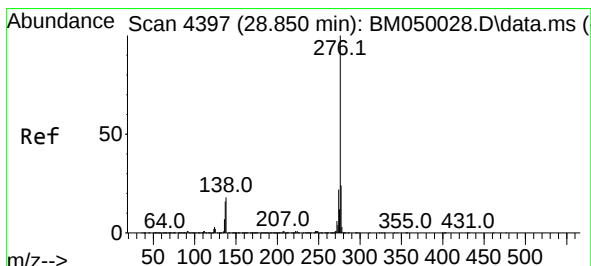
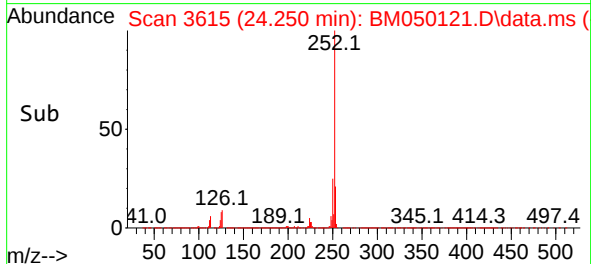
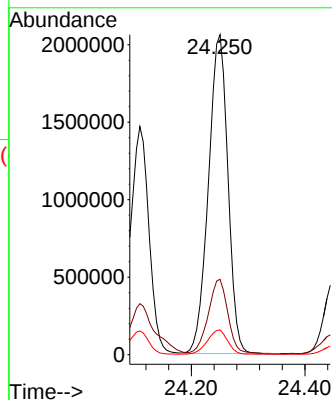
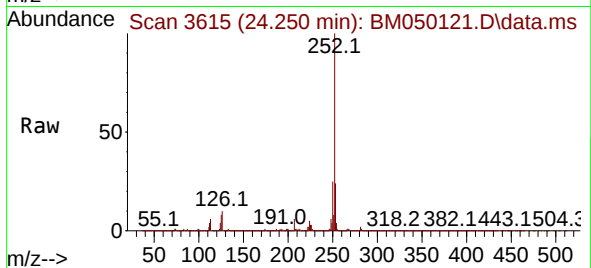
Tgt Ion:252 Resp: 4890928

Ion Ratio Lower Upper

252 100

253 23.5 17.4 26.0

125 7.8 6.6 9.8



#92

Benzo(g,h,i)perylene

Concen: 34.237 ng

RT: 28.827 min Scan# 4393

Delta R.T. -0.023 min

Lab File: BM050121.D

Acq: 06 May 2025 15:59

Tgt Ion:276 Resp: 2730522

Ion Ratio Lower Upper

276 100

277 24.0 19.1 28.7

138 17.5 14.3 21.5

