

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM041825\
 Data File : BM049972.D
 Acq On : 18 Apr 2025 19:04
 Operator : RC/JU
 Sample : Q1832-13 2X
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 PL-714-COMP-03

Quant Time: Apr 18 23:10:53 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM040825.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Apr 09 04:00:55 2025
 Response via : Initial Calibration

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

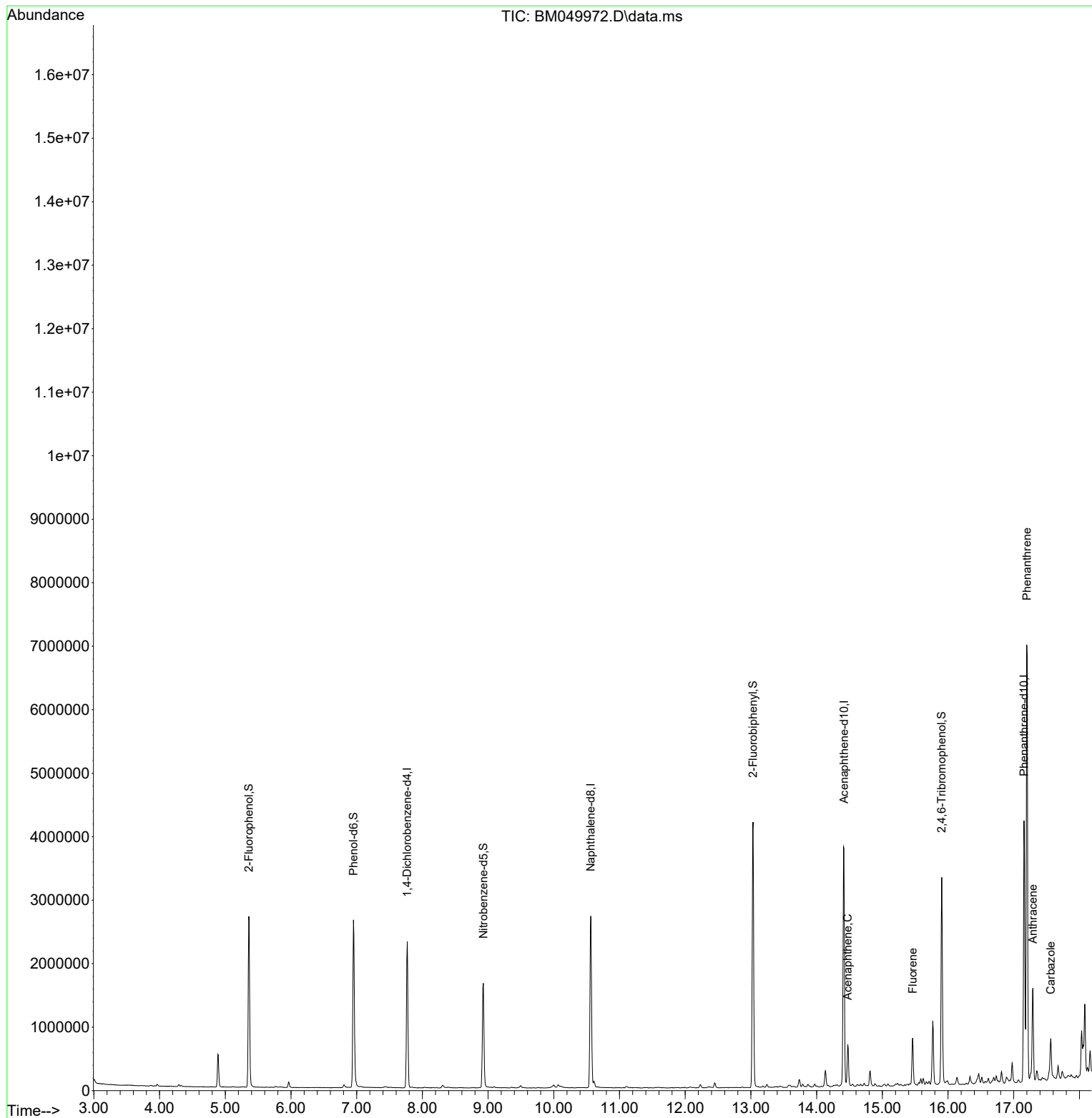
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.769	152	672637	20.000	ng	-0.01
21) Naphthalene-d8	10.563	136	2307081	20.000	ng	-0.01
39) Acenaphthene-d10	14.415	164	1408514	20.000	ng	0.00
64) Phenanthrene-d10	17.156	188	2446928	20.000	ng	0.00
76) Chrysene-d12	21.397	240	2109574	20.000	ng	0.00
86) Perylene-d12	24.403	264	2083176	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.357	112	1271691	32.104	ng	0.00
7) Phenol-d6	6.951	99	1646701	33.412	ng	0.00
23) Nitrobenzene-d5	8.928	82	988928	23.869	ng	0.00
42) 2,4,6-Tribromophenol	15.904	330	644150	31.441	ng	0.00
45) 2-Fluorobiphenyl	13.033	172	2415654	23.256	ng	-0.01
79) Terphenyl-d14	19.780	244	2404987	21.365	ng	-0.01
Target Compounds						Qvalue
52) Acenaphthene	14.474	154	235389	3.087	ng	99
58) Fluorene	15.462	166	349482	3.449	ng	99
71) Phenanthrene	17.198	178	4396875	32.776	ng	100
72) Anthracene	17.292	178	974944	7.375	ng	100
73) Carbazole	17.562	167	447282	3.592	ng	99
75) Fluoranthene	19.221	202	7940281	48.139	ng	98
78) Pyrene	19.580	202	6375855	43.854	ng	98
81) Benzo(a)anthracene	21.380	228	3207251	22.876	ng	98
83) Chrysene	21.444	228	2787972	20.917	ng	98
87) Indeno(1,2,3-cd)pyrene	27.797	276	1638078	10.549	ng	96
88) Benzo(b)fluoranthene	23.462	252	3622307	27.226	ng	99
89) Benzo(k)fluoranthene	23.515	252	1344933m	10.432	ng	
90) Benzo(a)pyrene	24.268	252	2665117	22.796	ng	98
91) Dibenzo(a,h)anthracene	27.832	278	429607	3.359	ng	# 87
92) Benzo(g,h,i)perylene	28.856	276	1525958	11.675	ng	98

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

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PL-714-COMP-03

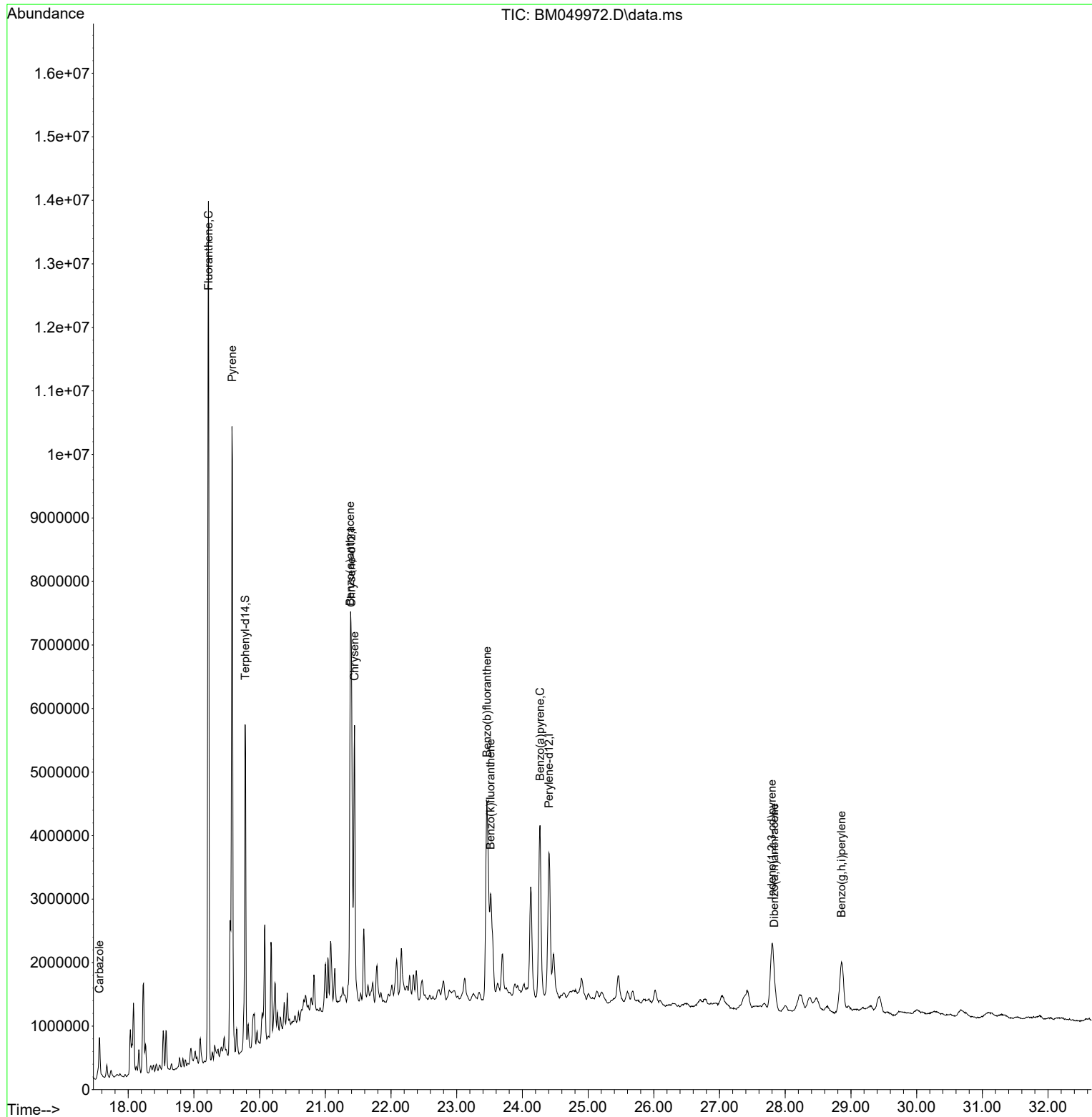
Quant Time: Apr 18 23:10:53 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM040825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 09 04:00:55 2025
Response via : Initial Calibration

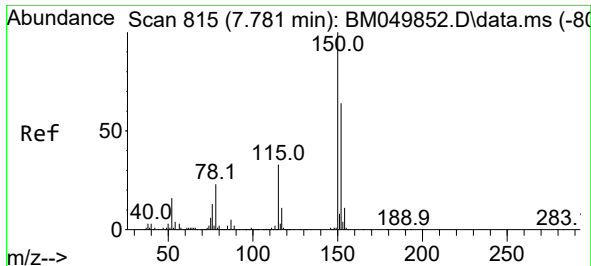


Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM041825\
Data File : BM049972.D
Acq On : 18 Apr 2025 19:04
Operator : RC/JU
Sample : Q1832-13 2X
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
PL-714-COMP-03

Quant Time: Apr 18 23:10:53 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM040825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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Response via : Initial Calibration

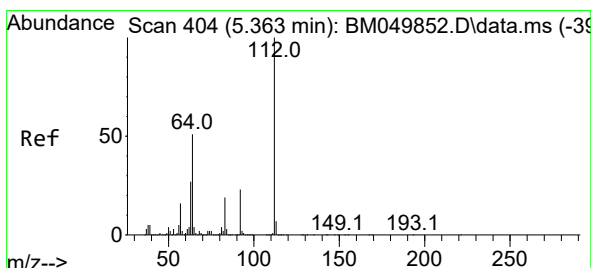
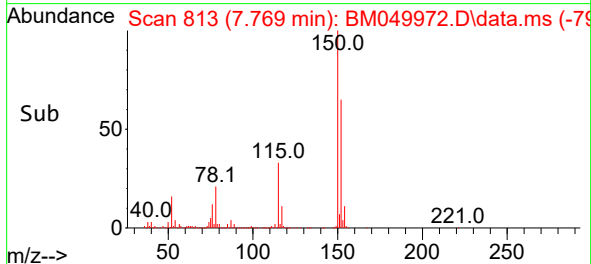
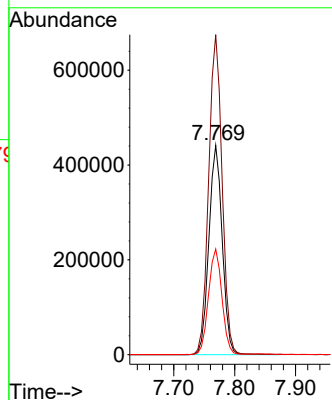
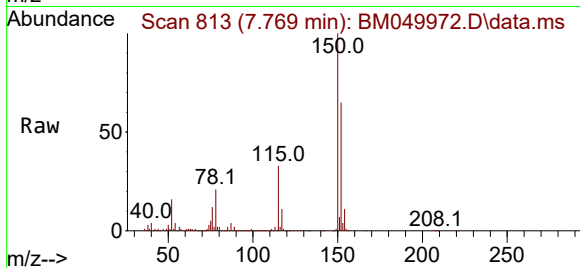




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.769 min Scan# 815
Delta R.T. -0.012 min
Lab File: BM049972.D
Acq: 18 Apr 2025 19:04

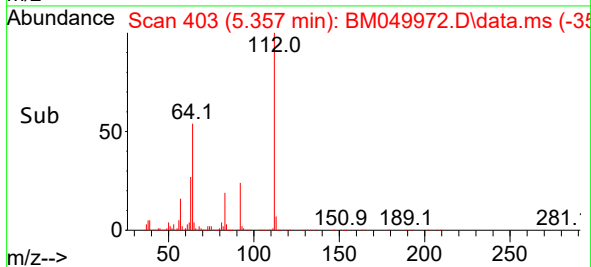
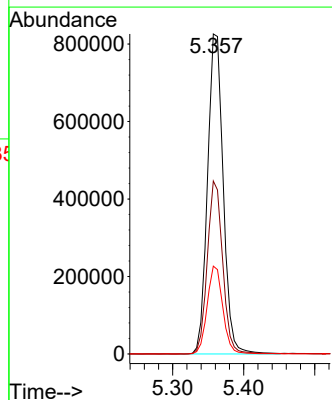
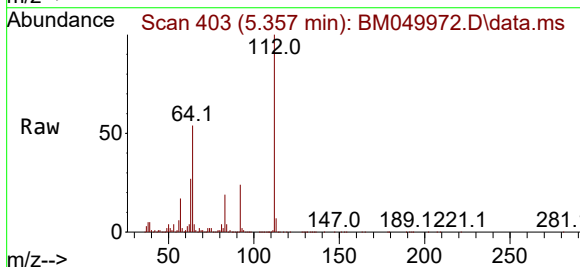
Instrument :
BNA_M
ClientSampleId :
PL-714-COMP-03

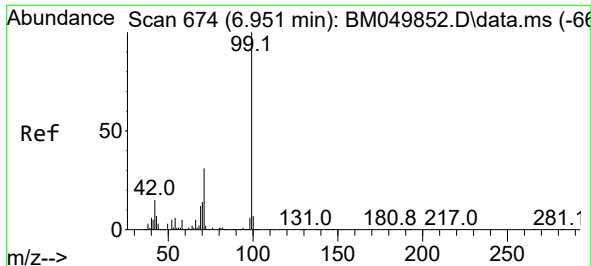
Tgt Ion:152 Resp: 672637
Ion Ratio Lower Upper
152 100
150 152.9 124.3 186.5
115 50.4 41.1 61.7



#5
2-Fluorophenol
Concen: 32.104 ng
RT: 5.357 min Scan# 403
Delta R.T. -0.006 min
Lab File: BM049972.D
Acq: 18 Apr 2025 19:04

Tgt Ion:112 Resp: 1271691
Ion Ratio Lower Upper
112 100
64 54.0 41.0 61.6
63 27.5 21.5 32.3



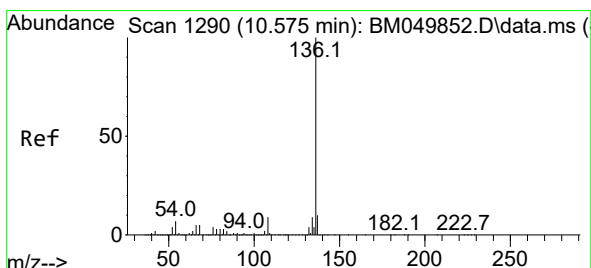
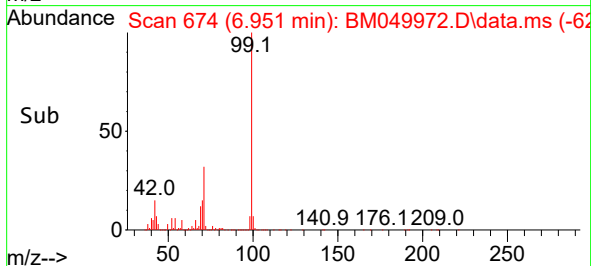
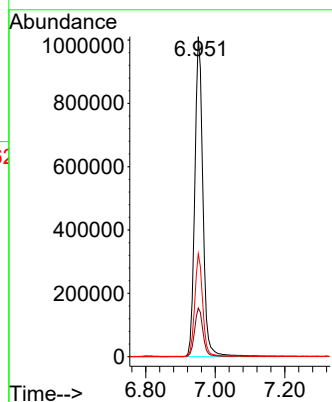
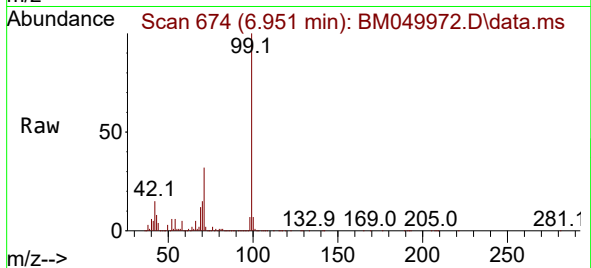


#7
Phenol-d6
Concen: 33.412 ng
RT: 6.951 min Scan# 61
Delta R.T. -0.000 min
Lab File: BM049972.D
Acq: 18 Apr 2025 19:04

Instrument :
BNA_M
ClientSampleId :
PL-714-COMP-03

Tgt Ion: 99 Resp: 1646701

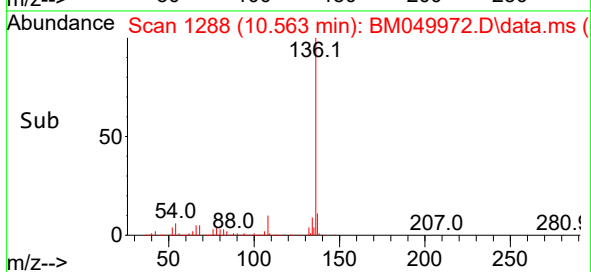
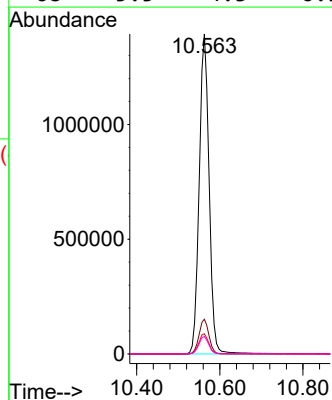
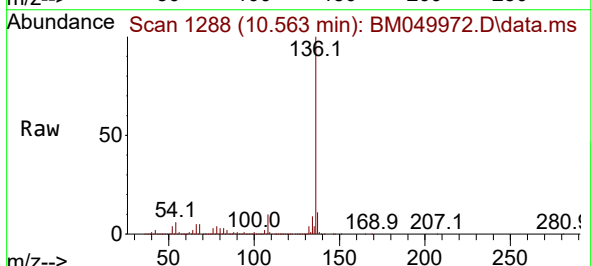
Ion	Ratio	Lower	Upper
99	100		
42	15.2	12.1	18.1
71	32.2	24.9	37.3

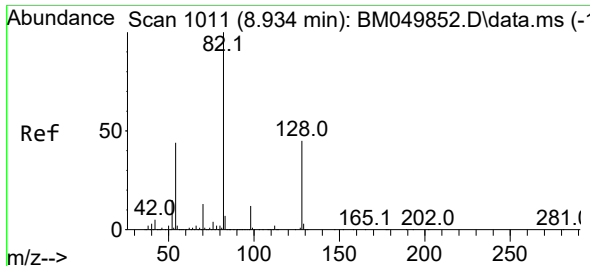


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.563 min Scan# 1288
Delta R.T. -0.012 min
Lab File: BM049972.D
Acq: 18 Apr 2025 19:04

Tgt Ion: 136 Resp: 2307081

Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.4	12.6
54	6.3	5.3	7.9
68	5.5	4.3	6.5

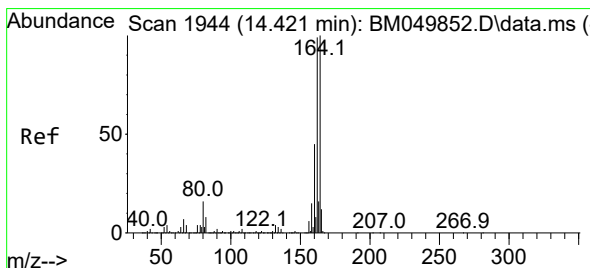
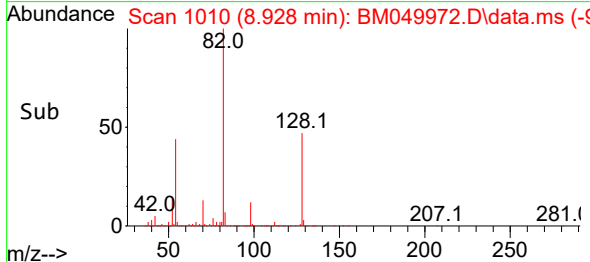
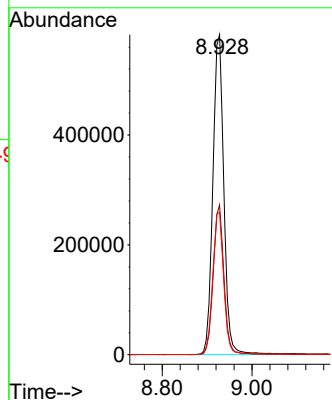
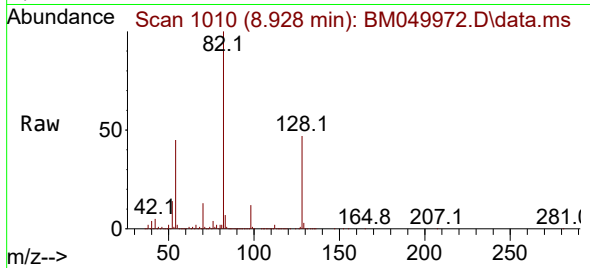




#23
Nitrobenzene-d5
Concen: 23.869 ng
RT: 8.928 min Scan# 1010
Delta R.T. -0.006 min
Lab File: BM049972.D
Acq: 18 Apr 2025 19:04

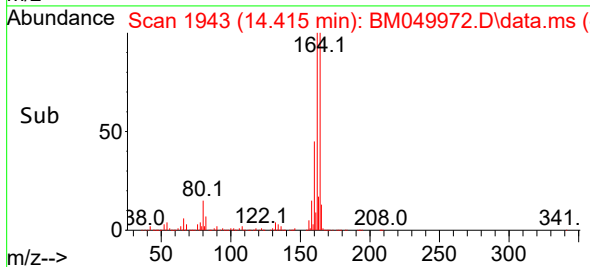
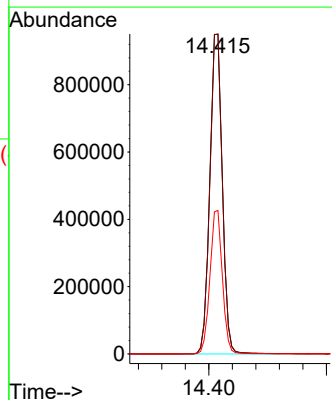
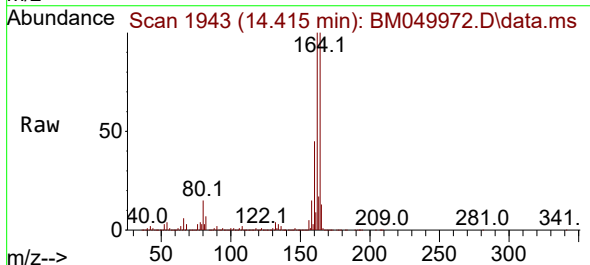
Instrument :
BNA_M
ClientSampleId :
PL-714-COMP-03

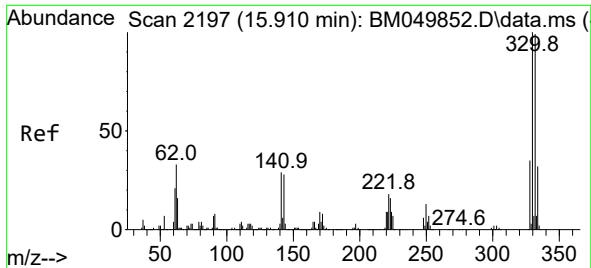
Tgt Ion: 82 Resp: 988928
Ion Ratio Lower Upper
82 100
128 46.8 36.2 54.2
54 44.5 35.0 52.6



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.415 min Scan# 1943
Delta R.T. -0.006 min
Lab File: BM049972.D
Acq: 18 Apr 2025 19:04

Tgt Ion:164 Resp: 1408514
Ion Ratio Lower Upper
164 100
162 100.1 79.4 119.0
160 44.9 36.2 54.2

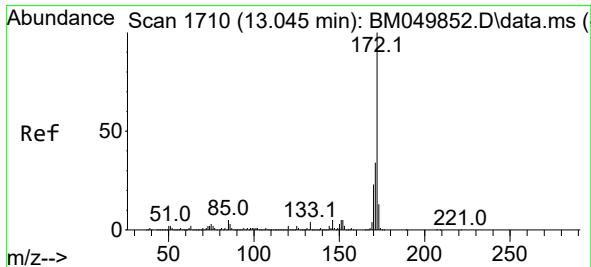
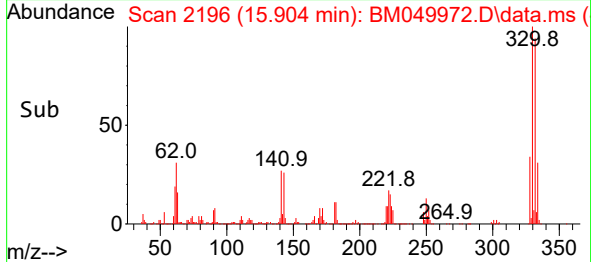
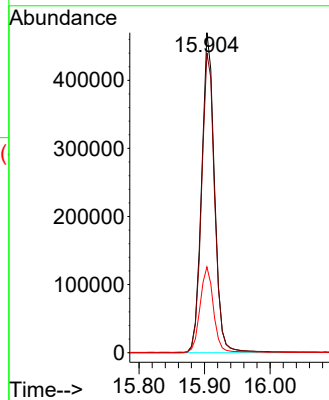
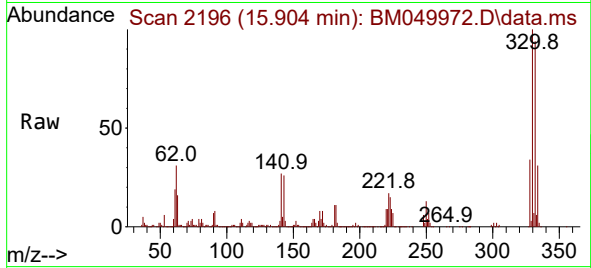




#42
2,4,6-Tribromophenol
Concen: 31.441 ng
RT: 15.904 min Scan# 2196
Delta R.T. -0.006 min
Lab File: BM049972.D
Acq: 18 Apr 2025 19:04

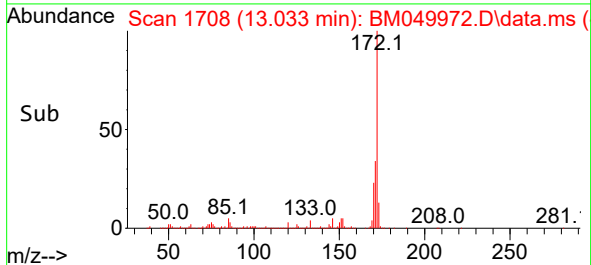
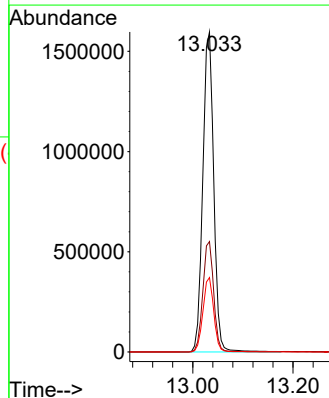
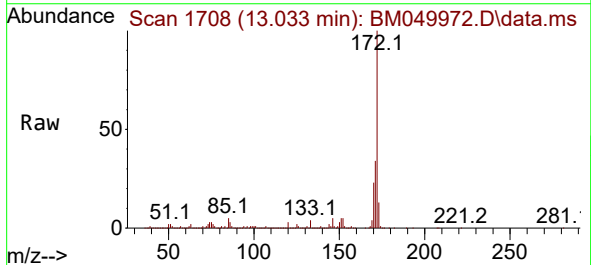
Instrument :
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ClientSampleId :
PL-714-COMP-03

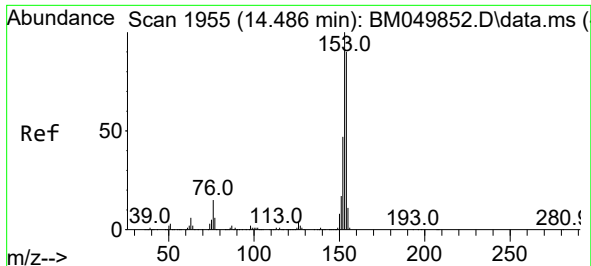
Tgt Ion:330 Resp: 644150
Ion Ratio Lower Upper
330 100
332 95.5 78.0 117.0
141 27.8 23.5 35.3



#45
2-Fluorobiphenyl
Concen: 23.256 ng
RT: 13.033 min Scan# 1708
Delta R.T. -0.012 min
Lab File: BM049972.D
Acq: 18 Apr 2025 19:04

Tgt Ion:172 Resp: 2415654
Ion Ratio Lower Upper
172 100
171 34.5 27.4 41.2
170 23.3 18.6 28.0

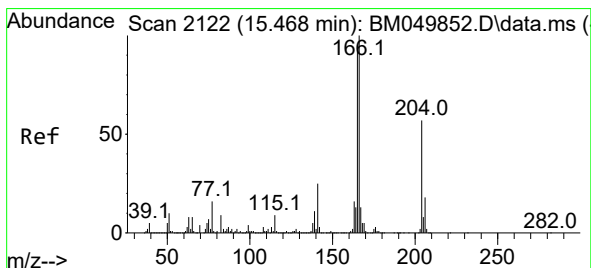
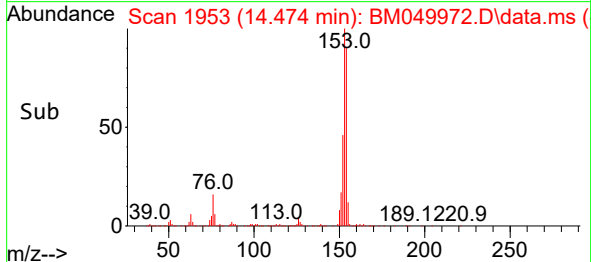
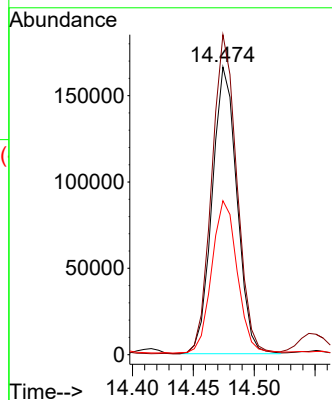
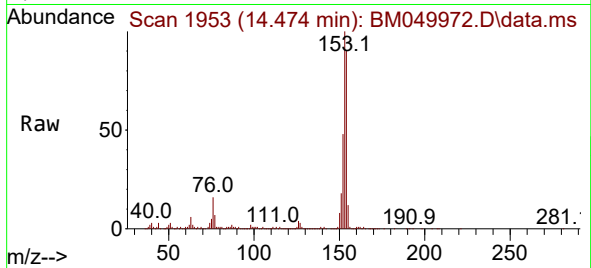




#52
Acenaphthene
Concen: 3.087 ng
RT: 14.474 min Scan# 1953
Delta R.T. -0.012 min
Lab File: BM049972.D
Acq: 18 Apr 2025 19:04

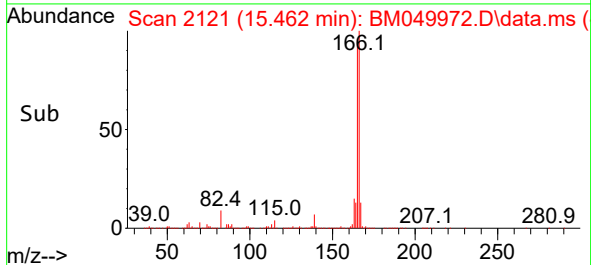
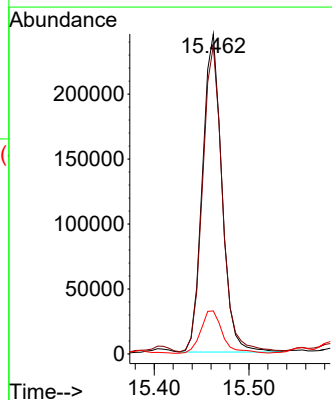
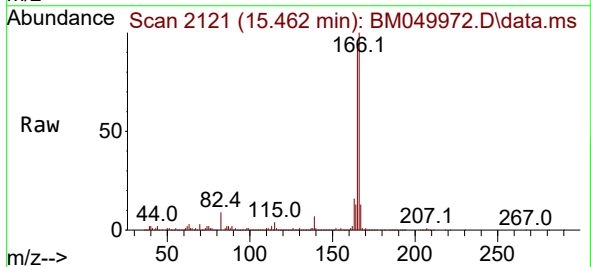
Instrument :
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ClientSampleId :
PL-714-COMP-03

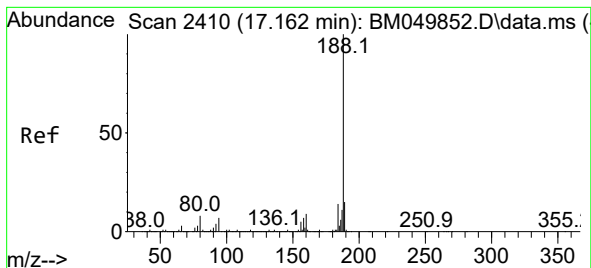
Tgt Ion:154 Resp: 235389
Ion Ratio Lower Upper
154 100
153 111.2 89.3 133.9
152 53.5 42.2 63.2



#58
Fluorene
Concen: 3.449 ng
RT: 15.462 min Scan# 2121
Delta R.T. -0.006 min
Lab File: BM049972.D
Acq: 18 Apr 2025 19:04

Tgt Ion:166 Resp: 349482
Ion Ratio Lower Upper
166 100
165 96.3 76.3 114.5
167 13.5 10.7 16.1





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.156 min Scan# 2410

Delta R.T. -0.006 min

Lab File: BM049972.D

Acq: 18 Apr 2025 19:04

Instrument :

BNA_M

ClientSampleId :

PL-714-COMP-03

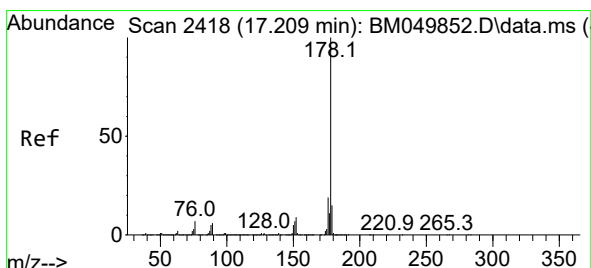
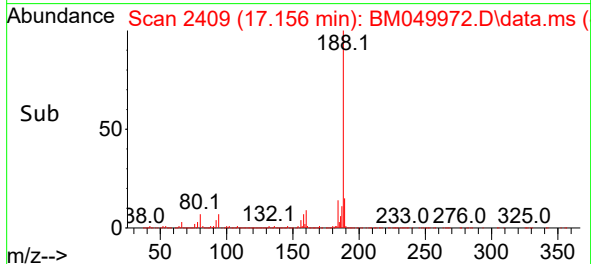
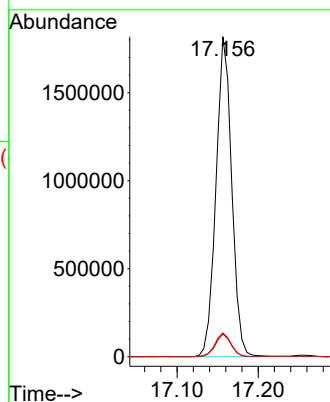
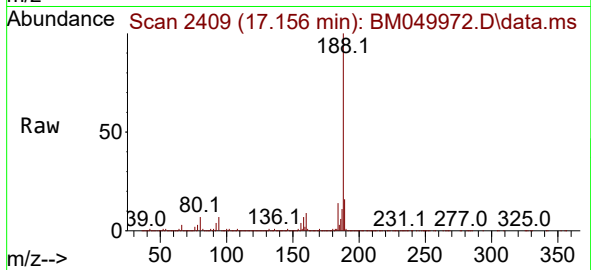
Tgt Ion:188 Resp: 2446928

Ion Ratio Lower Upper

188 100

94 7.1 5.8 8.6

80 7.5 6.4 9.6



#71

Phenanthrene

Concen: 32.776 ng

RT: 17.198 min Scan# 2416

Delta R.T. -0.012 min

Lab File: BM049972.D

Acq: 18 Apr 2025 19:04

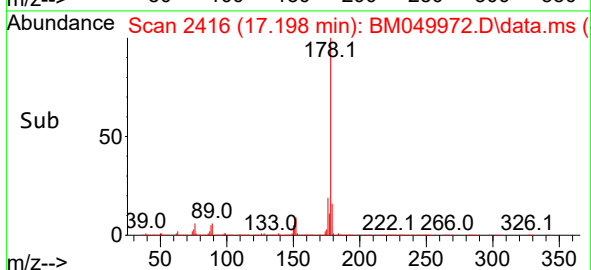
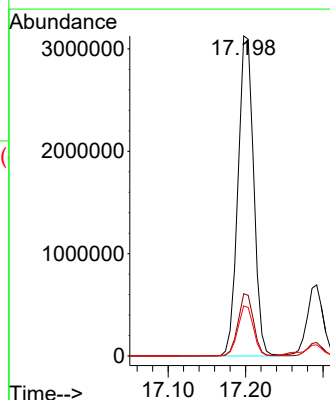
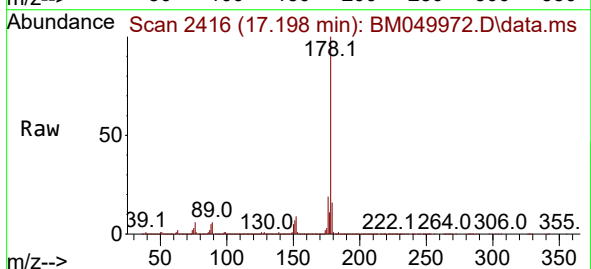
Tgt Ion:178 Resp: 4396875

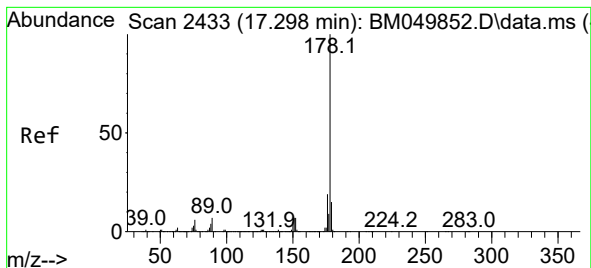
Ion Ratio Lower Upper

178 100

176 19.5 15.4 23.2

179 15.6 12.3 18.5





#72

Anthracene

Concen: 7.375 ng

RT: 17.292 min Scan# 2433

Delta R.T. -0.006 min

Lab File: BM049972.D

Acq: 18 Apr 2025 19:04

Instrument :

BNA_M

ClientSampleId :

PL-714-COMP-03

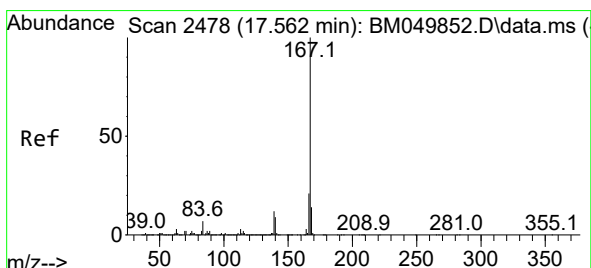
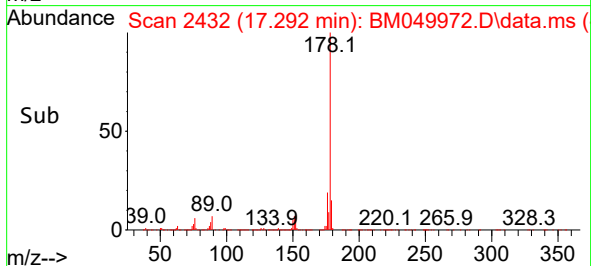
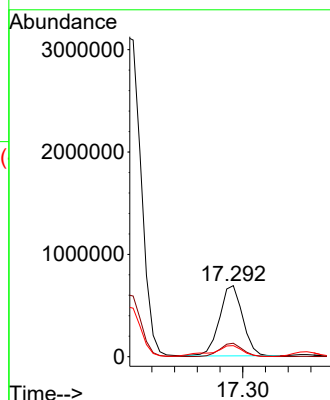
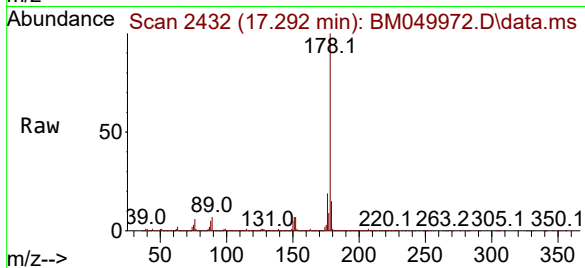
Tgt Ion:178 Resp: 974944

Ion Ratio Lower Upper

178 100

176 19.0 15.1 22.7

179 15.5 12.4 18.6



#73

Carbazole

Concen: 3.592 ng

RT: 17.562 min Scan# 2478

Delta R.T. -0.000 min

Lab File: BM049972.D

Acq: 18 Apr 2025 19:04

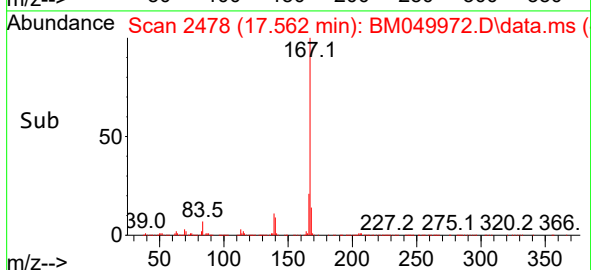
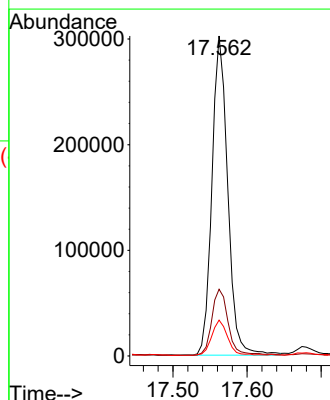
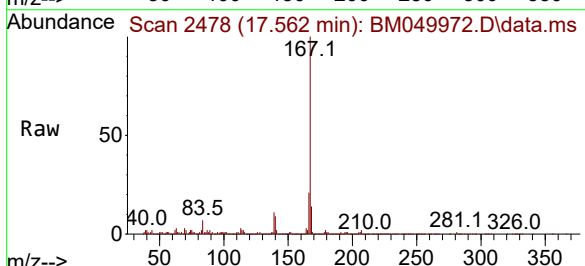
Tgt Ion:167 Resp: 447282

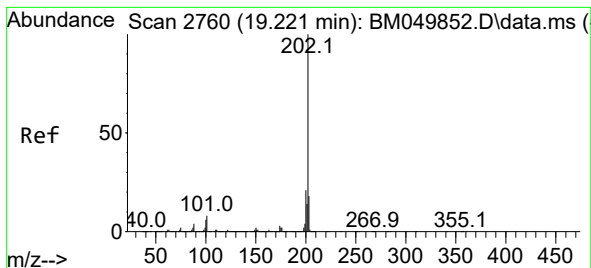
Ion Ratio Lower Upper

167 100

166 20.9 16.9 25.3

139 11.2 9.3 13.9





#75

Fluoranthene

Concen: 48.139 ng

RT: 19.221 min Scan# 21

Delta R.T. -0.000 min

Lab File: BM049972.D

Acq: 18 Apr 2025 19:04

Instrument :

BNA_M

ClientSampleId :

PL-714-COMP-03

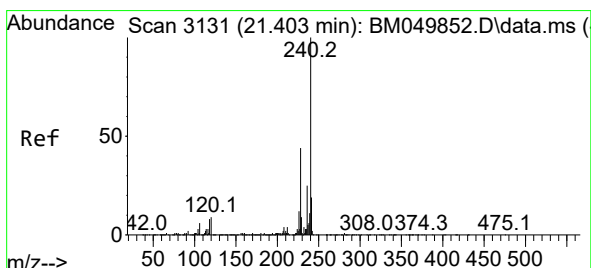
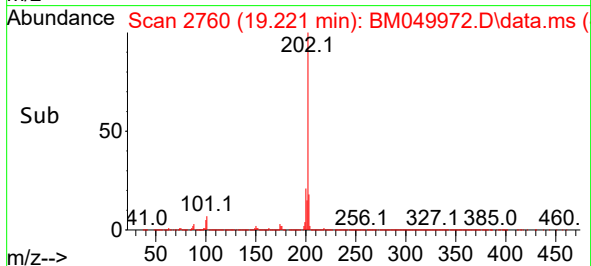
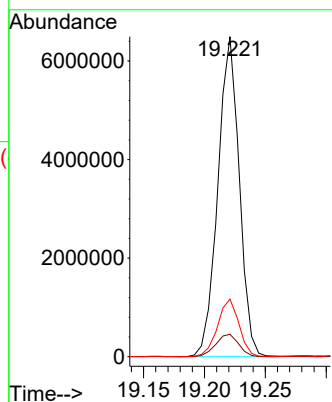
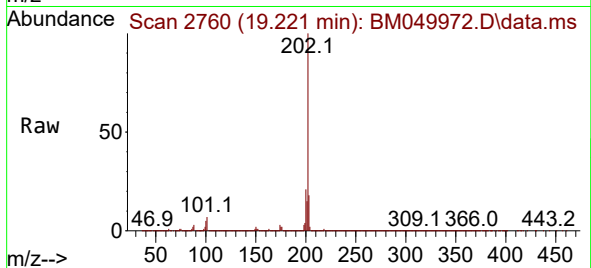
Tgt Ion:202 Resp: 7940281

Ion Ratio Lower Upper

202 100

101 7.0 0.0 28.4

203 18.0 0.0 37.8



#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.397 min Scan# 3130

Delta R.T. -0.006 min

Lab File: BM049972.D

Acq: 18 Apr 2025 19:04

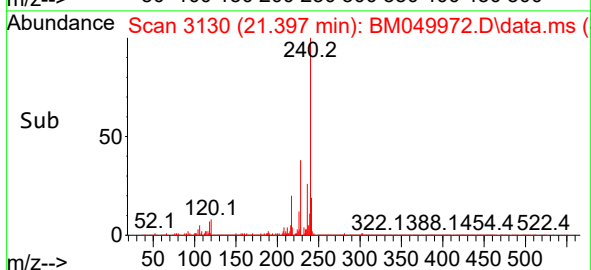
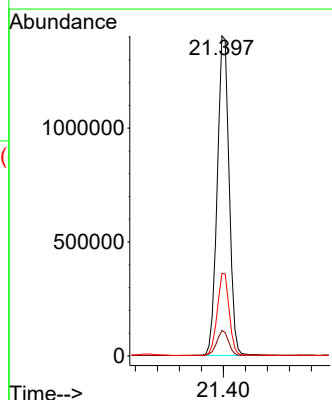
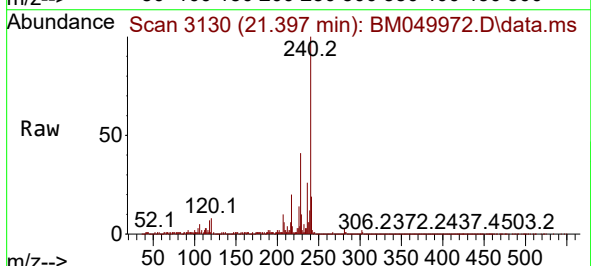
Tgt Ion:240 Resp: 2109574

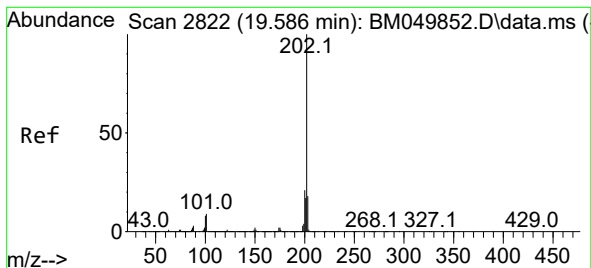
Ion Ratio Lower Upper

240 100

120 8.0 6.9 10.3

236 25.8 20.4 30.6





#78

Pyrene

Concen: 43.854 ng

RT: 19.580 min Scan# 2822

Delta R.T. -0.006 min

Lab File: BM049972.D

Acq: 18 Apr 2025 19:04

Instrument :

BNA_M

ClientSampleId :

PL-714-COMP-03

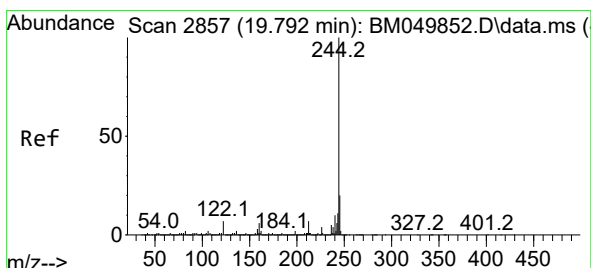
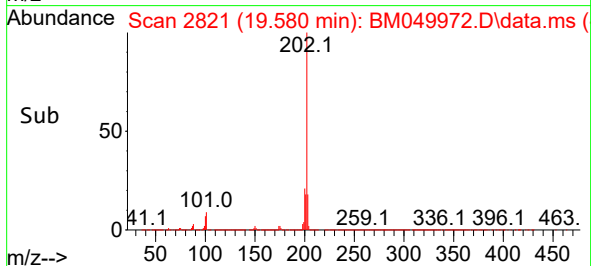
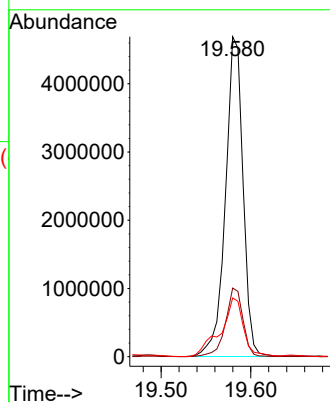
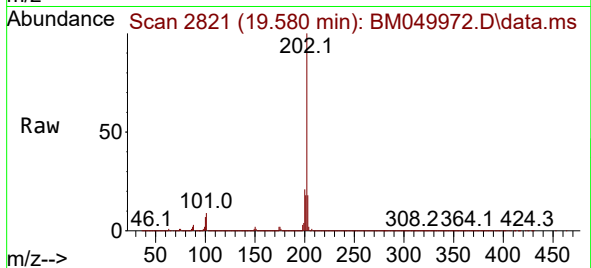
Tgt Ion:202 Resp: 6375855

Ion Ratio Lower Upper

202 100

200 21.4 16.5 24.7

203 18.4 14.0 21.0



#79

Terphenyl-d14

Concen: 21.365 ng

RT: 19.780 min Scan# 2855

Delta R.T. -0.012 min

Lab File: BM049972.D

Acq: 18 Apr 2025 19:04

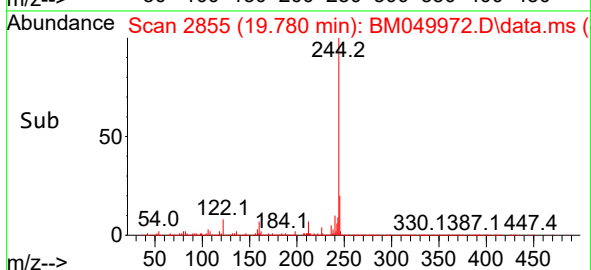
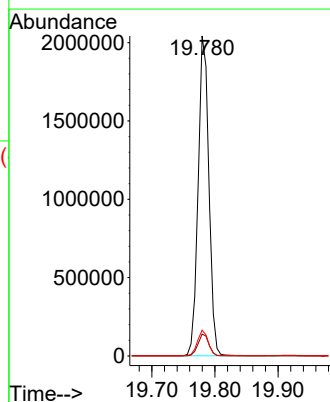
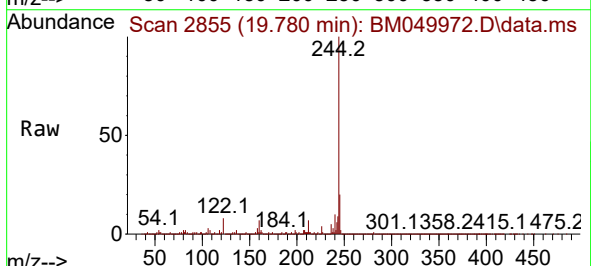
Tgt Ion:244 Resp: 2404987

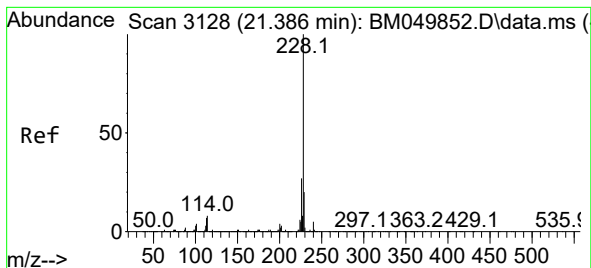
Ion Ratio Lower Upper

244 100

212 6.9 5.5 8.3

122 8.1 5.4 8.0#





#81

Benzo(a)anthracene

Concen: 22.876 ng

RT: 21.380 min Scan# 3128

Delta R.T. -0.006 min

Lab File: BM049972.D

Acq: 18 Apr 2025 19:04

Instrument :

BNA_M

ClientSampleId :

PL-714-COMP-03

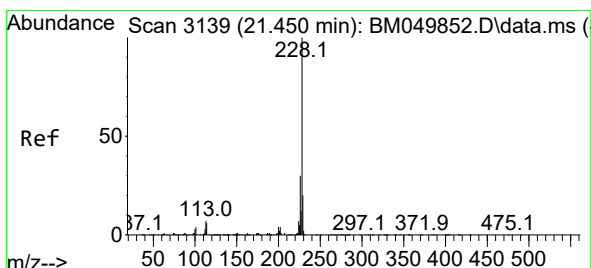
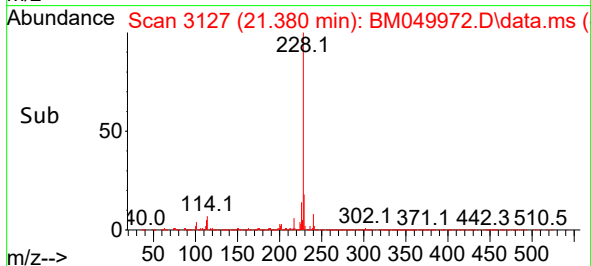
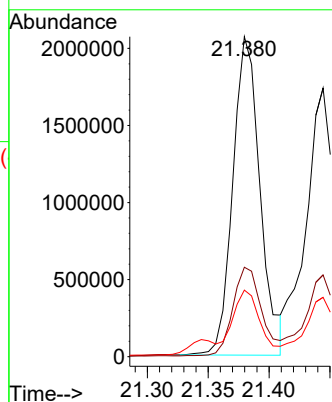
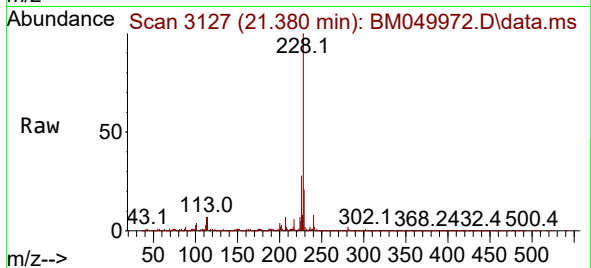
Tgt Ion:228 Resp: 3207251

Ion Ratio Lower Upper

228 100

226 28.0 21.8 32.8

229 20.8 15.8 23.8



#83

Chrysene

Concen: 20.917 ng

RT: 21.444 min Scan# 3138

Delta R.T. -0.006 min

Lab File: BM049972.D

Acq: 18 Apr 2025 19:04

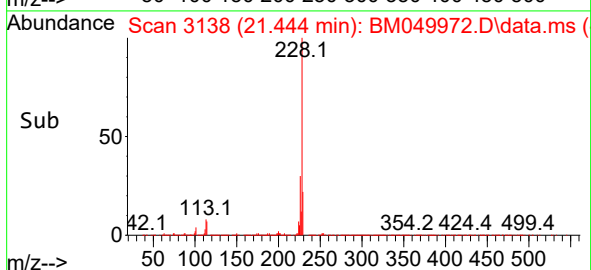
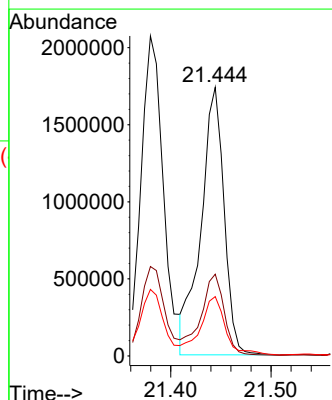
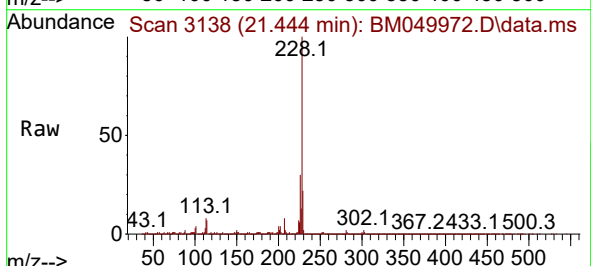
Tgt Ion:228 Resp: 2787972

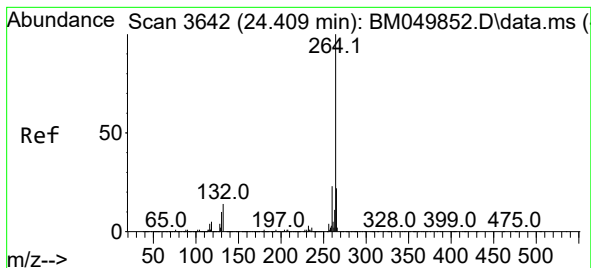
Ion Ratio Lower Upper

228 100

226 30.4 24.1 36.1

229 22.1 15.8 23.6





#86

Perylene-d12

Concen: 20.000 ng

RT: 24.403 min Scan# 3

Delta R.T. -0.006 min

Lab File: BM049972.D

Acq: 18 Apr 2025 19:04

Instrument :

BNA_M

ClientSampleId :

PL-714-COMP-03

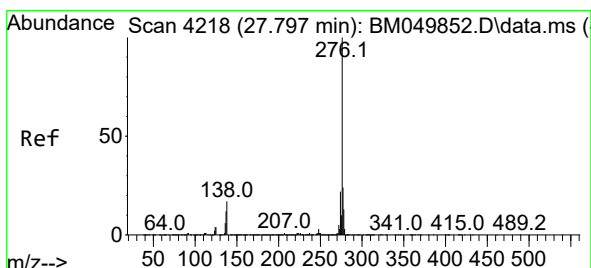
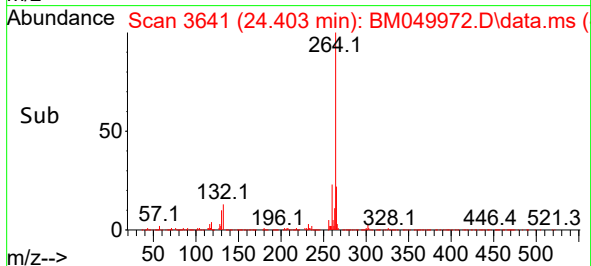
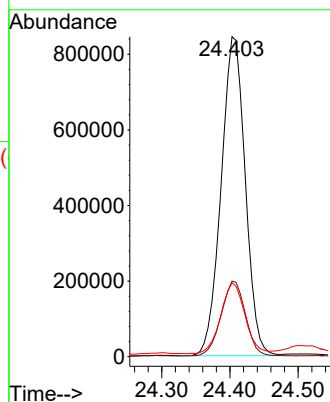
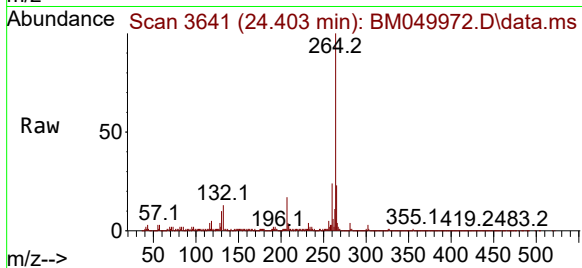
Tgt Ion:264 Resp: 2083176

Ion Ratio Lower Upper

264 100

260 23.6 18.6 28.0

265 23.1 17.8 26.8



#87

Indeno(1,2,3-cd)pyrene

Concen: 10.549 ng

RT: 27.797 min Scan# 4218

Delta R.T. -0.000 min

Lab File: BM049972.D

Acq: 18 Apr 2025 19:04

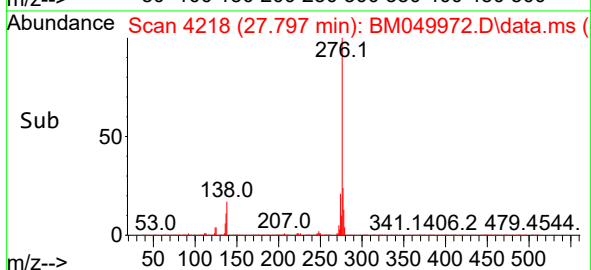
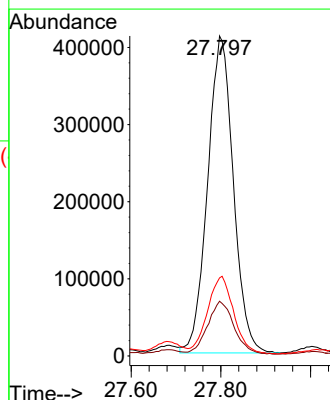
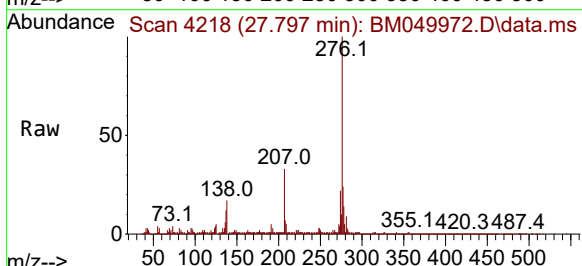
Tgt Ion:276 Resp: 1638078

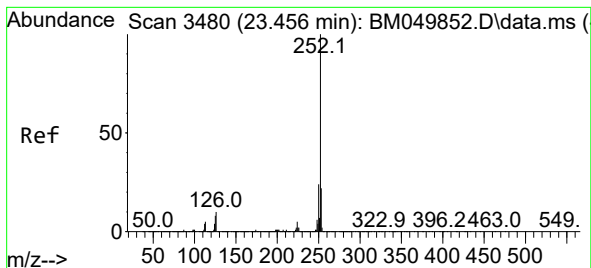
Ion Ratio Lower Upper

276 100

138 17.1 16.8 25.2

277 25.1 20.1 30.1





#88

Benzo(b)fluoranthene

Concen: 27.226 ng

RT: 23.462 min Scan# 34

Delta R.T. 0.006 min

Lab File: BM049972.D

Acq: 18 Apr 2025 19:04

Instrument :

BNA_M

ClientSampleId :

PL-714-COMP-03

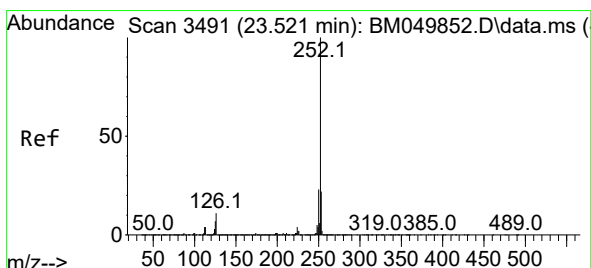
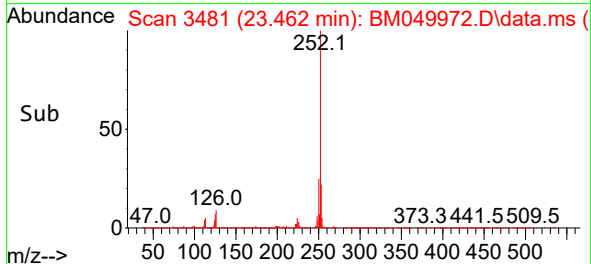
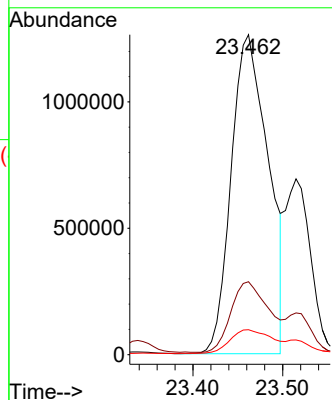
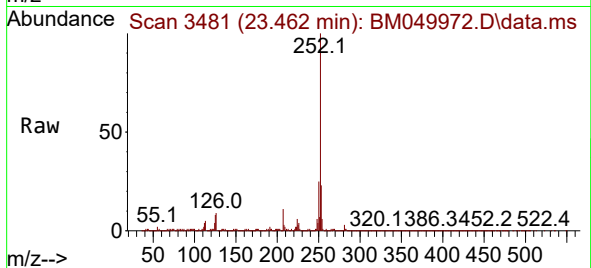
Tgt Ion:252 Resp: 3622307

Ion Ratio Lower Upper

252 100

253 22.8 17.5 26.3

125 7.8 6.2 9.4



#89

Benzo(k)fluoranthene

Concen: 10.432 ng m

RT: 23.515 min Scan# 3490

Delta R.T. -0.006 min

Lab File: BM049972.D

Acq: 18 Apr 2025 19:04

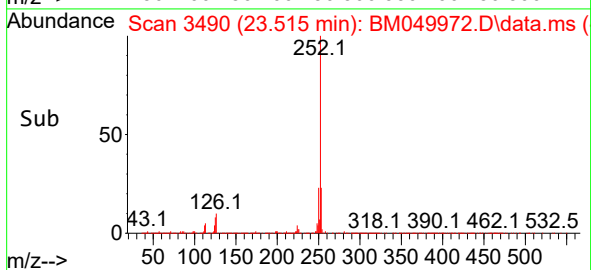
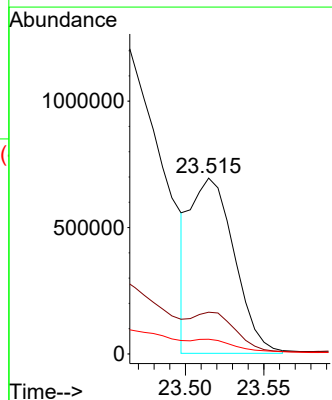
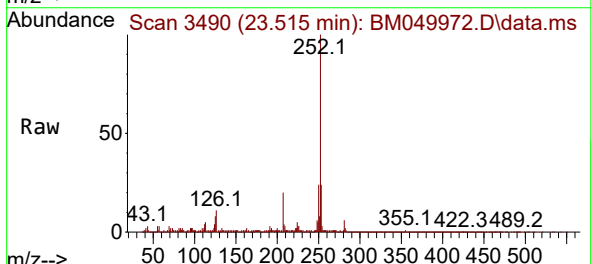
Tgt Ion:252 Resp: 1344933

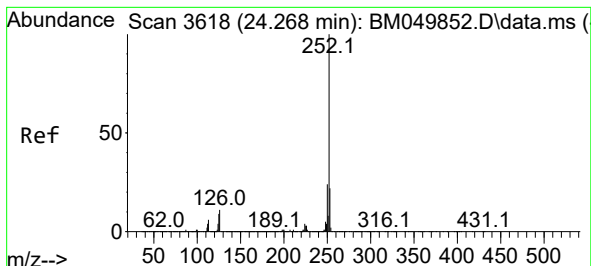
Ion Ratio Lower Upper

252 100

253 23.7 17.4 26.2

125 8.4 5.8 8.8





#90

Benzo(a)pyrene

Concen: 22.796 ng

RT: 24.268 min Scan# 3

Delta R.T. -0.000 min

Lab File: BM049972.D

Acq: 18 Apr 2025 19:04

Instrument :

BNA_M

ClientSampleId :

PL-714-COMP-03

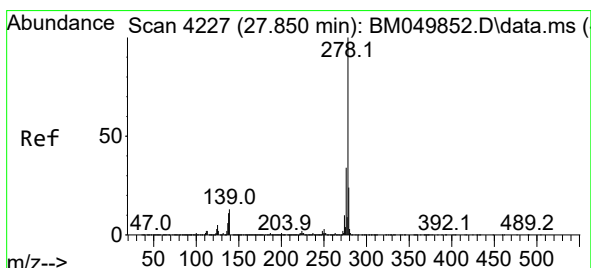
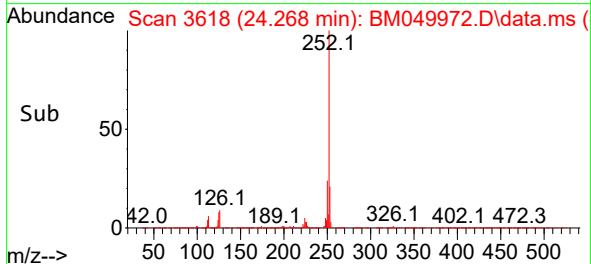
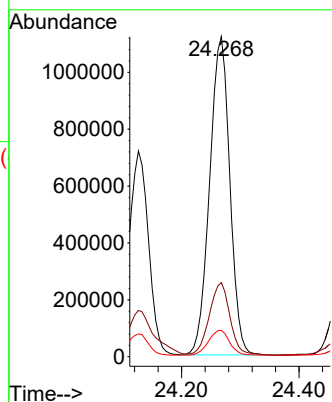
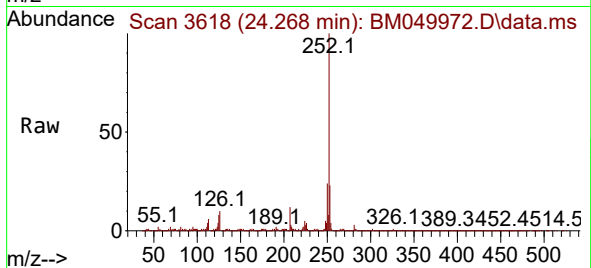
Tgt Ion:252 Resp: 2665117

Ion Ratio Lower Upper

252 100

253 23.2 17.8 26.8

125 8.2 7.0 10.4



#91

Dibenzo(a,h)anthracene

Concen: 3.359 ng

RT: 27.832 min Scan# 4224

Delta R.T. -0.018 min

Lab File: BM049972.D

Acq: 18 Apr 2025 19:04

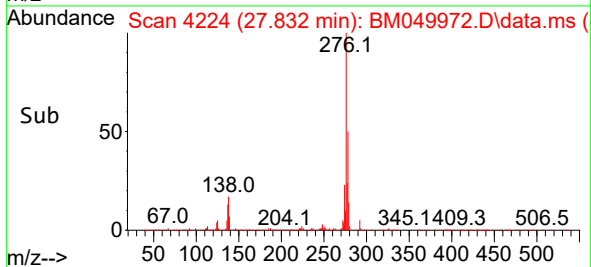
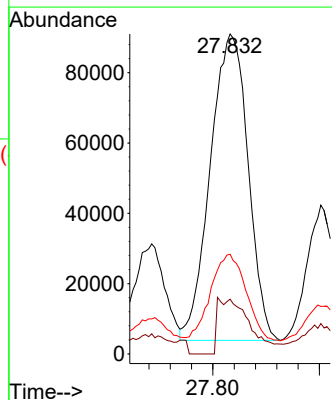
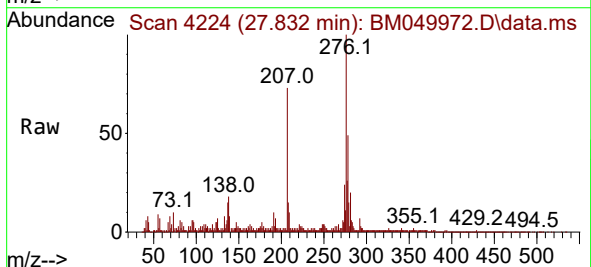
Tgt Ion:278 Resp: 429607

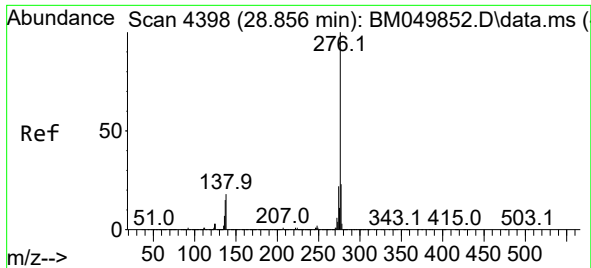
Ion Ratio Lower Upper

278 100

139 17.1 10.6 15.8#

279 31.2 19.1 28.7#





#92
 Benzo(g,h,i)perylene
 Concen: 11.675 ng
 RT: 28.856 min Scan# 41
 Delta R.T. -0.000 min
 Lab File: BM049972.D
 Acq: 18 Apr 2025 19:04

Instrument :
 BNA_M
 ClientSampleId :
 PL-714-COMP-03

Tgt Ion:276 Resp: 1525958
 Ion Ratio Lower Upper
 276 100
 277 24.2 18.7 28.1
 138 17.5 14.6 21.8

