

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM042125\
 Data File : BM049986.D
 Acq On : 21 Apr 2025 15:53
 Operator : RC/JU
 Sample : Q1832-01DL 5X
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 PL-714-COMP-01DL

Quant Time: Apr 21 16:47:17 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)

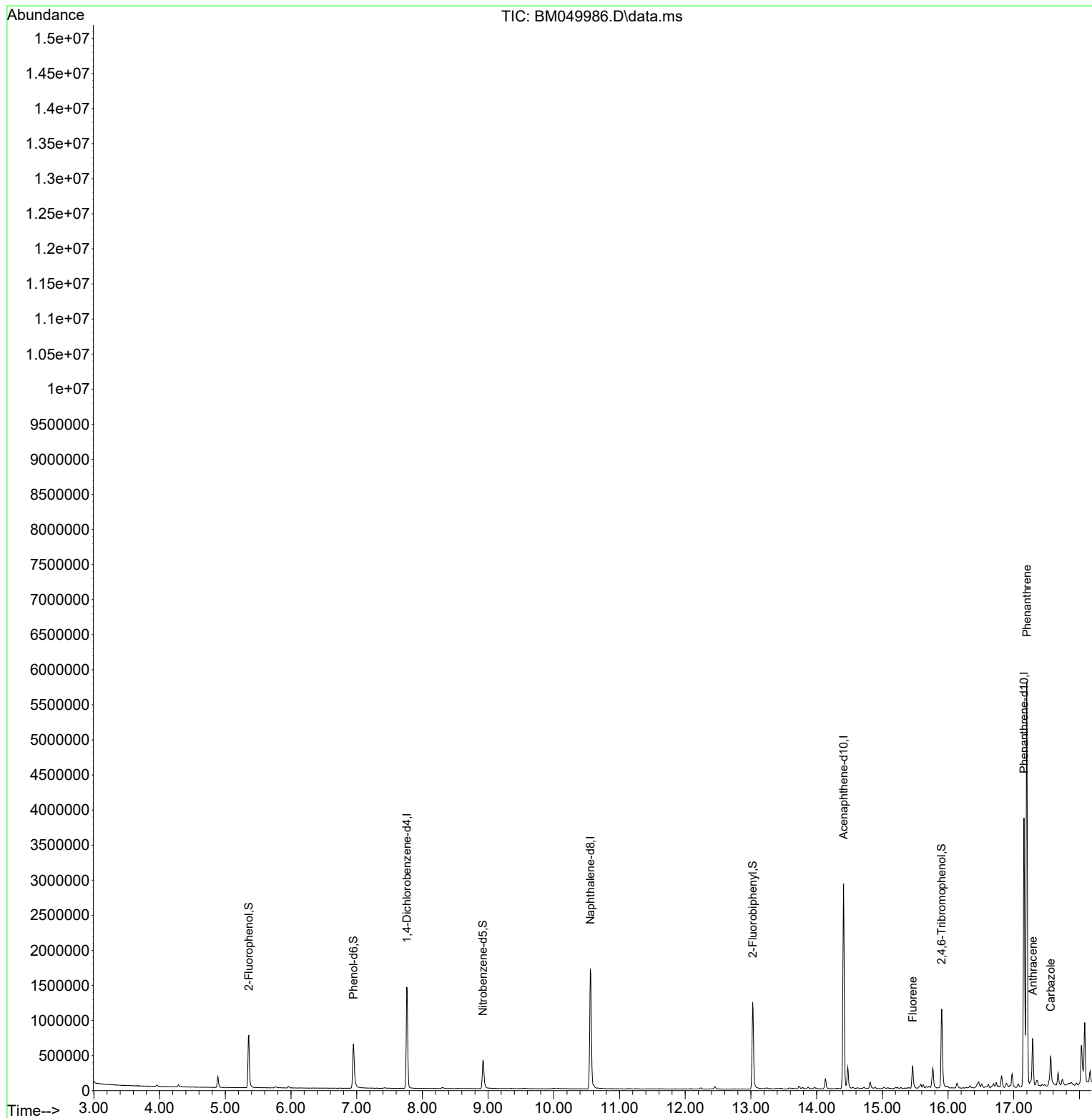
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.763	152	431159	20.000	ng	-0.02
21) Naphthalene-d8	10.557	136	1551872	20.000	ng	-0.02
39) Acenaphthene-d10	14.410	164	1079472	20.000	ng	-0.01
64) Phenanthrene-d10	17.156	188	2274706	20.000	ng	0.00
76) Chrysene-d12	21.397	240	2159953	20.000	ng	0.00
86) Perylene-d12	24.397	264	1753279	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.357	112	365615	14.399	ng	0.00
7) Phenol-d6	6.951	99	461353	14.604	ng	0.00
23) Nitrobenzene-d5	8.922	82	275620	9.890	ng	-0.01
42) 2,4,6-Tribromophenol	15.904	330	230038	14.651	ng	0.00
45) 2-Fluorobiphenyl	13.027	172	756169	9.499	ng	-0.02
79) Terphenyl-d14	19.780	244	1203894	10.445	ng	-0.01
Target Compounds						Qvalue
58) Fluorene	15.462	166	158848	2.046	ng	99
71) Phenanthrene	17.198	178	3406622	27.317	ng	100
72) Anthracene	17.292	178	452779	3.684	ng	99
73) Carbazole	17.562	167	287826	2.487	ng	99
75) Fluoranthene	19.215	202	7552829	49.257	ng	99
78) Pyrene	19.580	202	6320261	42.458	ng	99
81) Benzo(a)anthracene	21.380	228	2478510	17.266	ng	98
83) Chrysene	21.439	228	2453189	17.976	ng	97
87) Indeno(1,2,3-cd)pyrene	27.785	276	1044730	7.994	ng	97
88) Benzo(b)fluoranthene	23.456	252	2632749	23.512	ng	98
89) Benzo(k)fluoranthene	23.509	252	968531m	8.926	ng	
90) Benzo(a)pyrene	24.256	252	1761759	17.905	ng	100
91) Dibenzo(a,h)anthracene	27.815	278	269541	2.504	ng	# 93
92) Benzo(g,h,i)perylene	28.838	276	984281	8.948	ng	99

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

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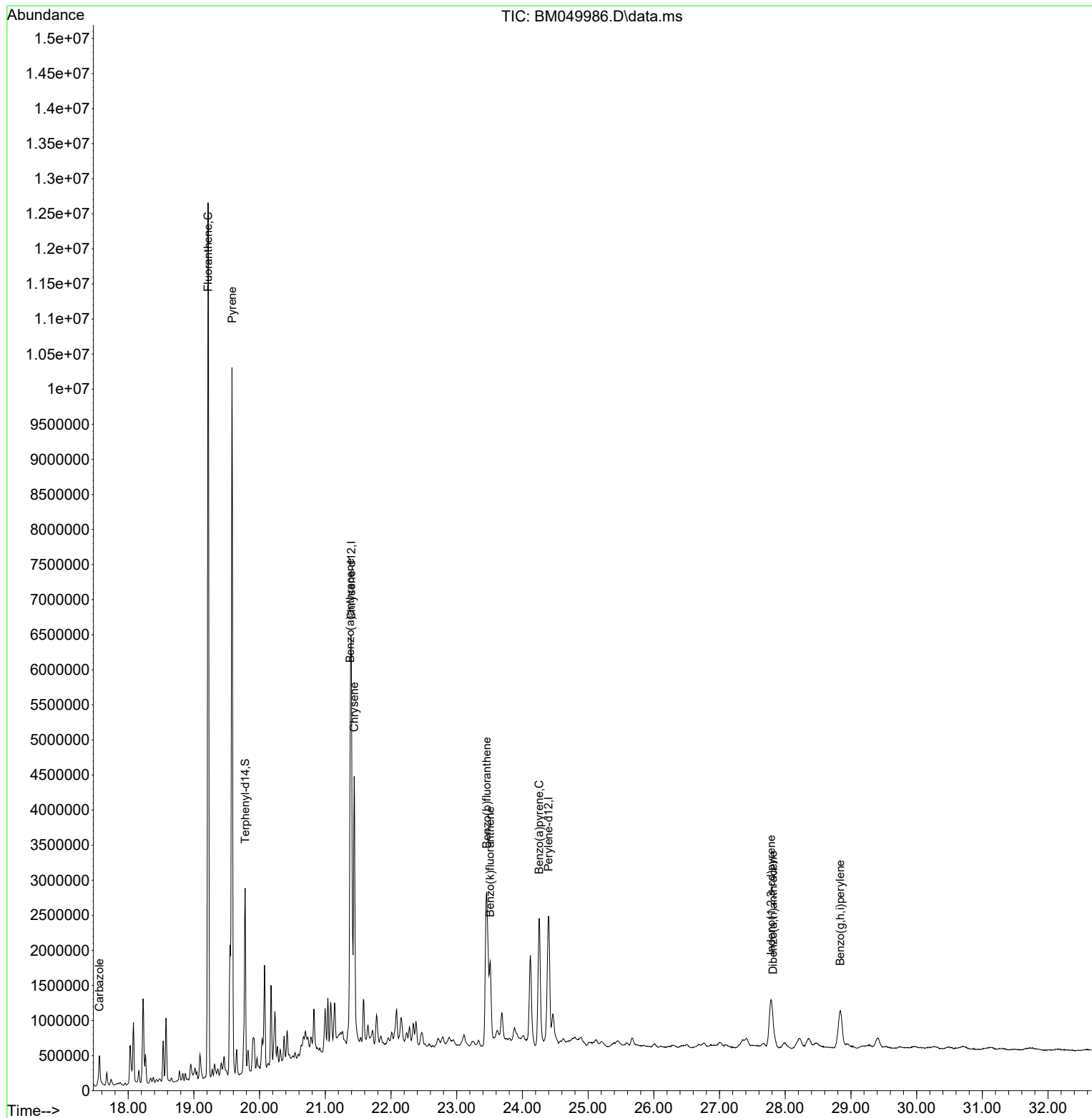
Quant Time: Apr 21 16:47:17 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM040825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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Response via : Initial Calibration

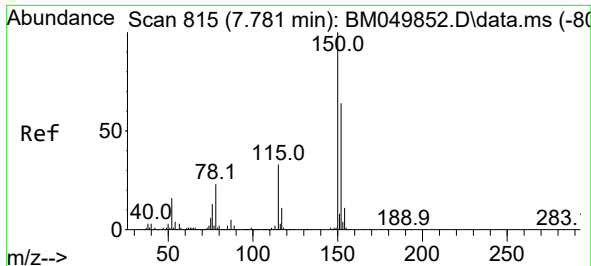


Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM042125\
Data File : BM049986.D
Acq On : 21 Apr 2025 15:53
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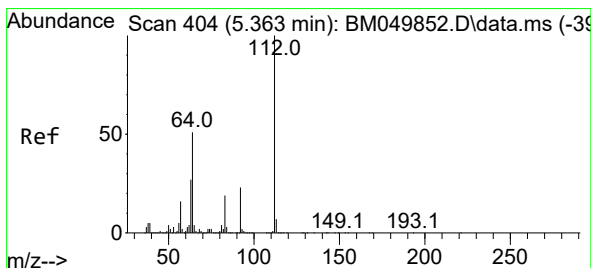
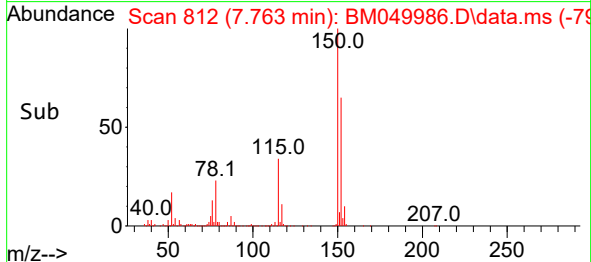
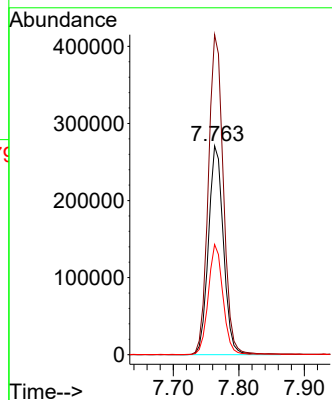
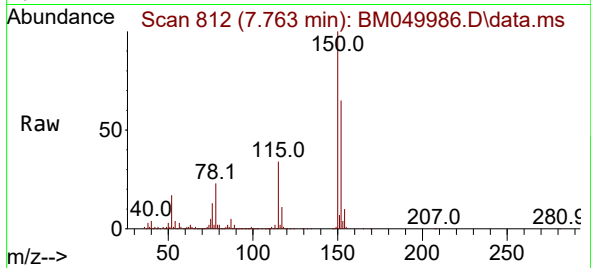




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.763 min Scan# 815
Delta R.T. -0.018 min
Lab File: BM049986.D
Acq: 21 Apr 2025 15:53

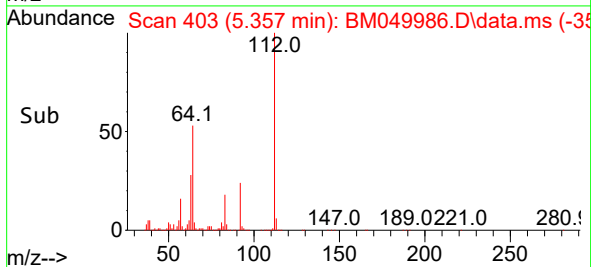
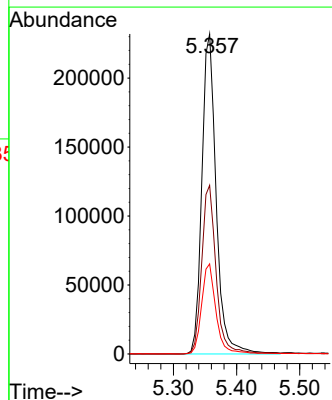
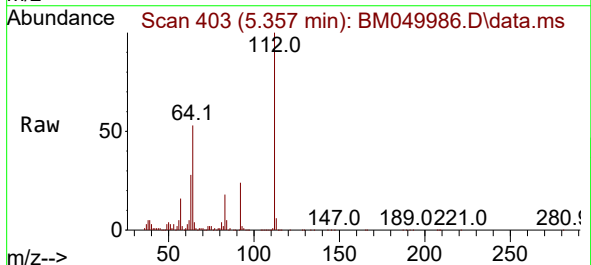
Instrument :
BNA_M
ClientSampleId :
PL-714-COMP-01DL

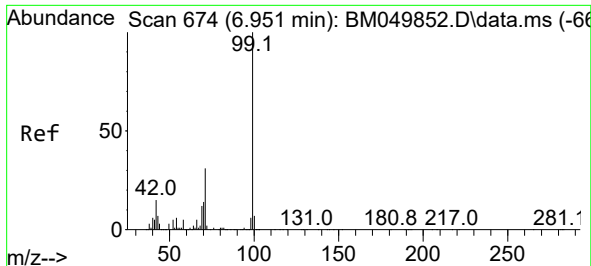
Tgt Ion:152 Resp: 431159
Ion Ratio Lower Upper
152 100
150 153.2 124.3 186.5
115 52.8 41.1 61.7



#5
2-Fluorophenol
Concen: 14.399 ng
RT: 5.357 min Scan# 403
Delta R.T. -0.006 min
Lab File: BM049986.D
Acq: 21 Apr 2025 15:53

Tgt Ion:112 Resp: 365615
Ion Ratio Lower Upper
112 100
64 52.7 41.0 61.6
63 28.2 21.5 32.3

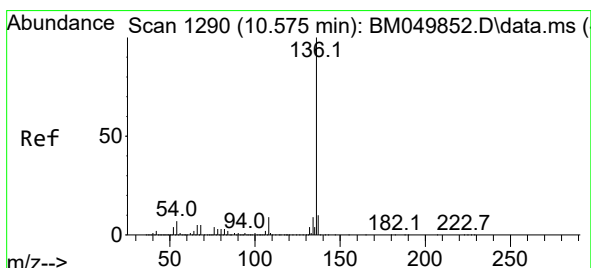
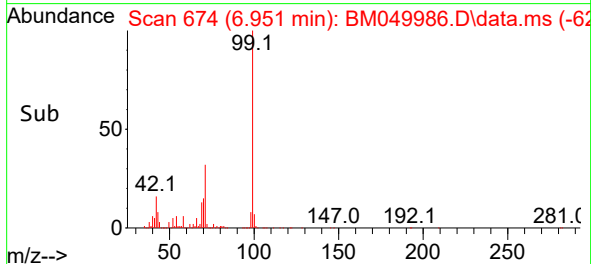
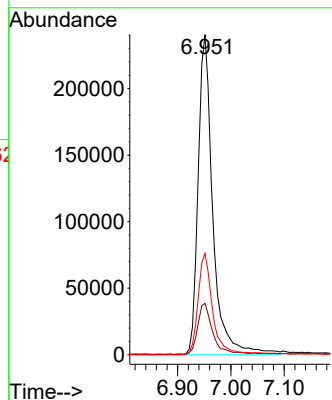
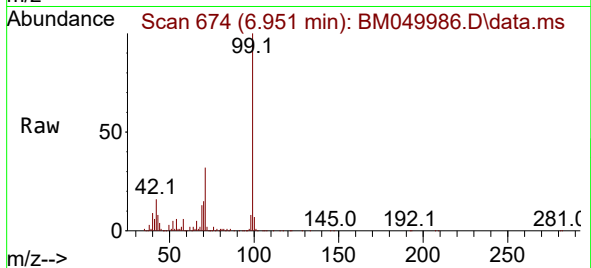




#7
Phenol-d6
Concen: 14.604 ng
RT: 6.951 min Scan# 61
Delta R.T. -0.000 min
Lab File: BM049986.D
Acq: 21 Apr 2025 15:53

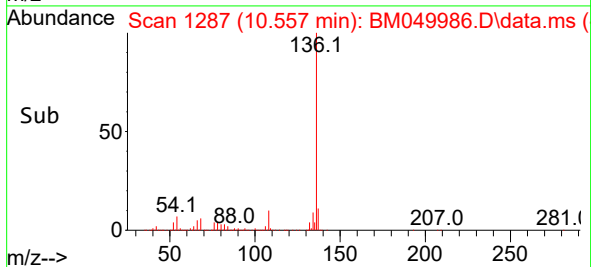
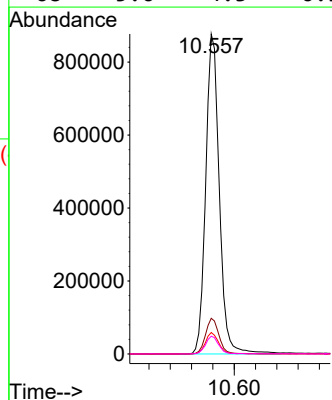
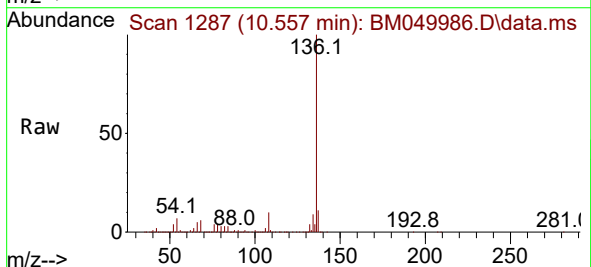
Instrument :
BNA_M
ClientSampleId :
PL-714-COMP-01DL

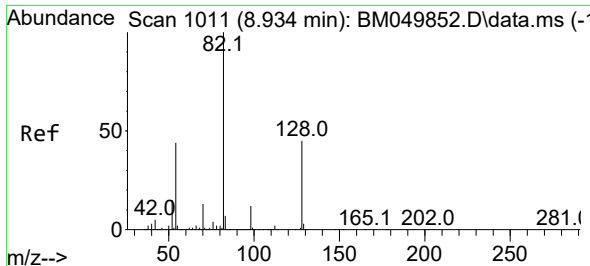
Tgt Ion: 99 Resp: 461353
Ion Ratio Lower Upper
99 100
42 16.1 12.1 18.1
71 31.6 24.9 37.3



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.557 min Scan# 1287
Delta R.T. -0.018 min
Lab File: BM049986.D
Acq: 21 Apr 2025 15:53

Tgt Ion:136 Resp: 1551872
Ion Ratio Lower Upper
136 100
137 11.2 8.4 12.6
54 6.7 5.3 7.9
68 5.6 4.3 6.5

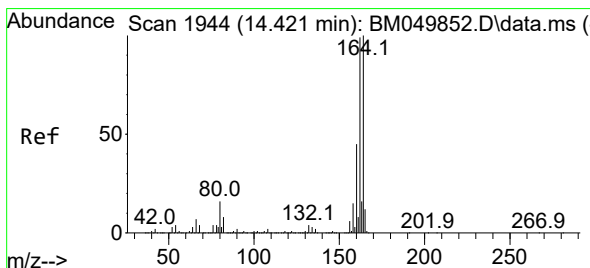
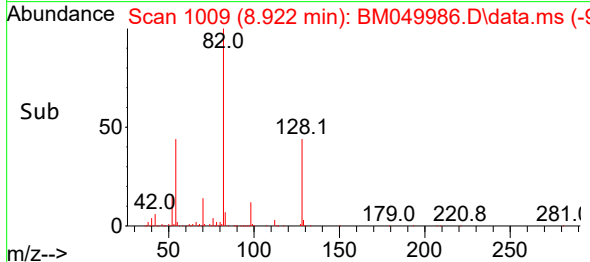
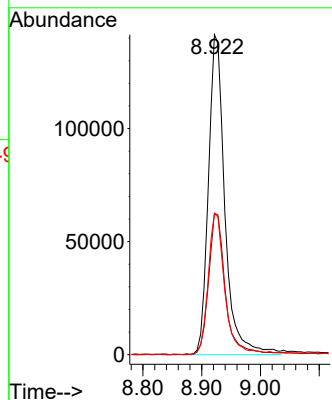
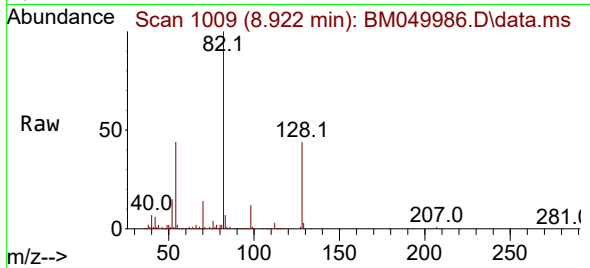




#23
Nitrobenzene-d5
Concen: 9.890 ng
RT: 8.922 min Scan# 1009
Delta R.T. -0.012 min
Lab File: BM049986.D
Acq: 21 Apr 2025 15:53

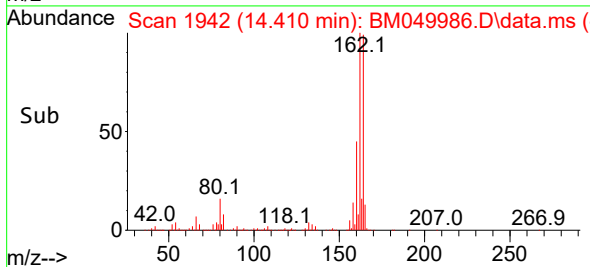
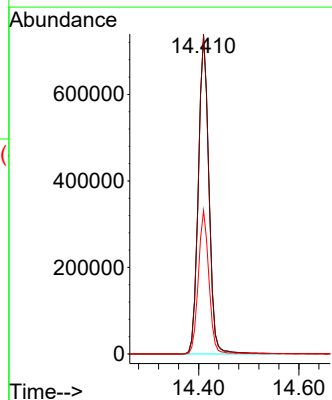
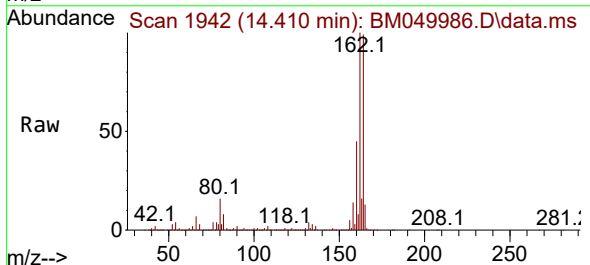
Instrument :
BNA_M
ClientSampleId :
PL-714-COMP-01DL

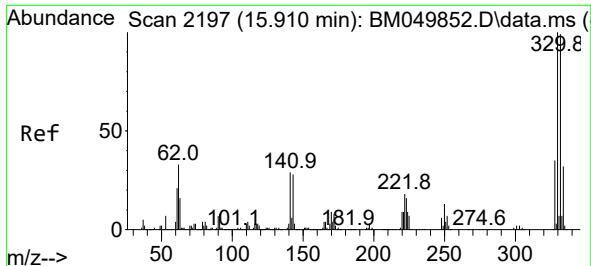
Tgt Ion: 82 Resp: 275620
Ion Ratio Lower Upper
82 100
128 44.2 36.2 54.2
54 44.2 35.0 52.6



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.410 min Scan# 1942
Delta R.T. -0.012 min
Lab File: BM049986.D
Acq: 21 Apr 2025 15:53

Tgt Ion:164 Resp: 1079472
Ion Ratio Lower Upper
164 100
162 100.9 79.4 119.0
160 45.2 36.2 54.2





#42

2,4,6-Tribromophenol

Concen: 14.651 ng

RT: 15.904 min Scan# 21

Delta R.T. -0.006 min

Lab File: BM049986.D

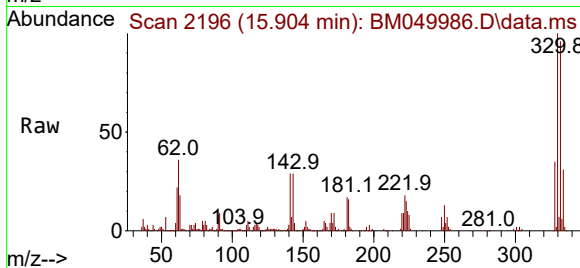
Acq: 21 Apr 2025 15:53

Instrument :

BNA_M

ClientSampleId :

PL-714-COMP-01DL



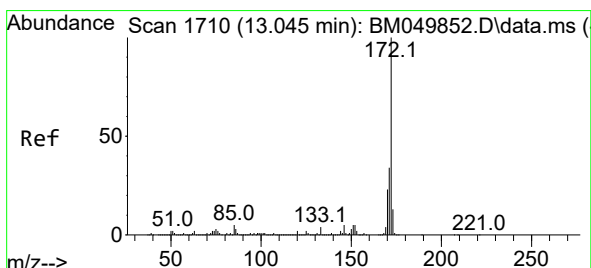
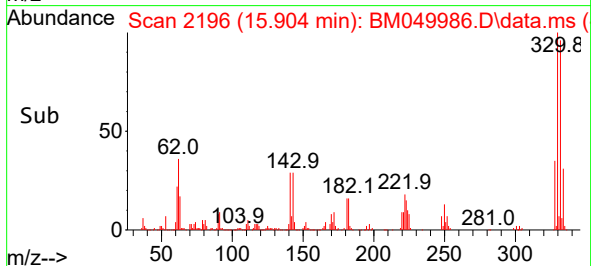
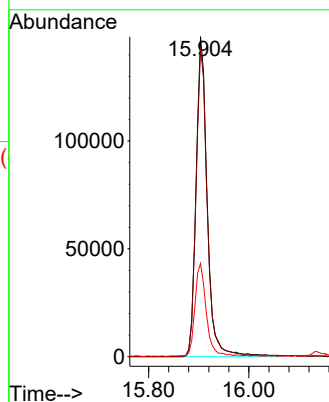
Tgt Ion:330 Resp: 230038

Ion Ratio Lower Upper

330 100

332 96.1 78.0 117.0

141 29.7 23.5 35.3



#45

2-Fluorobiphenyl

Concen: 9.499 ng

RT: 13.027 min Scan# 1707

Delta R.T. -0.018 min

Lab File: BM049986.D

Acq: 21 Apr 2025 15:53

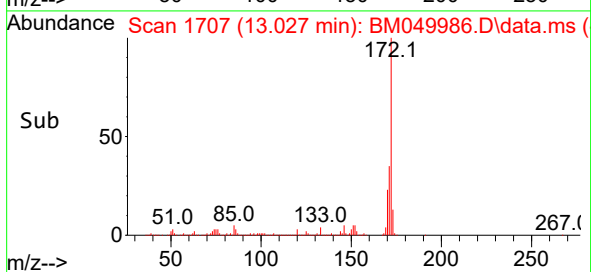
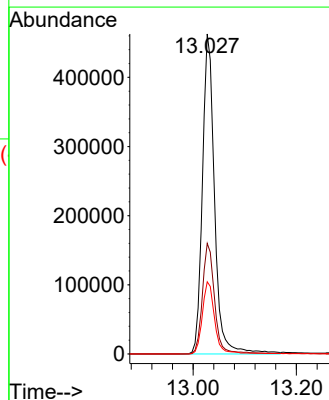
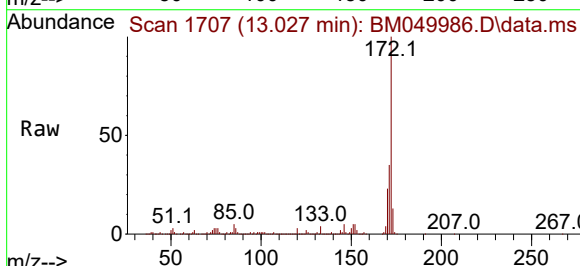
Tgt Ion:172 Resp: 756169

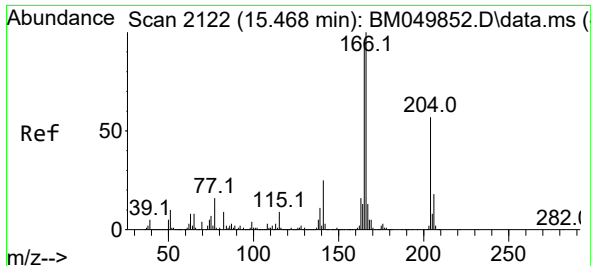
Ion Ratio Lower Upper

172 100

171 34.5 27.4 41.2

170 22.6 18.6 28.0

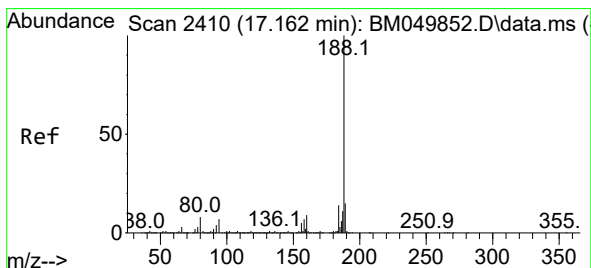
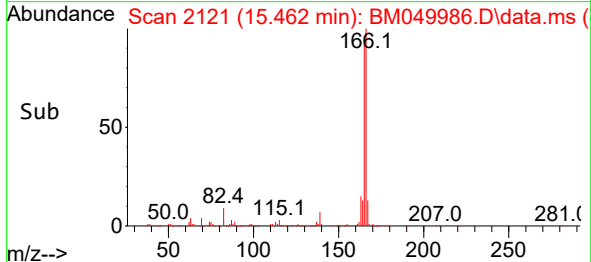
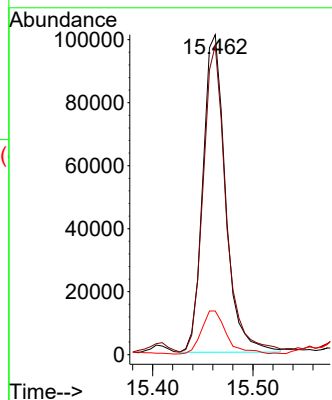
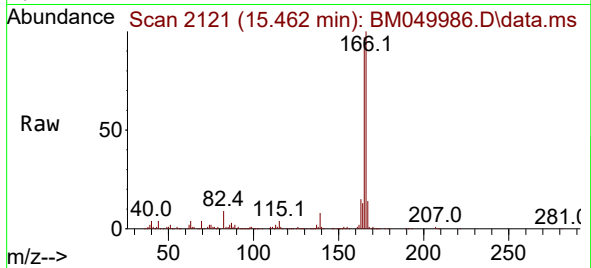




#58
Fluorene
Concen: 2.046 ng
RT: 15.462 min Scan# 2122
Delta R.T. -0.006 min
Lab File: BM049986.D
Acq: 21 Apr 2025 15:53

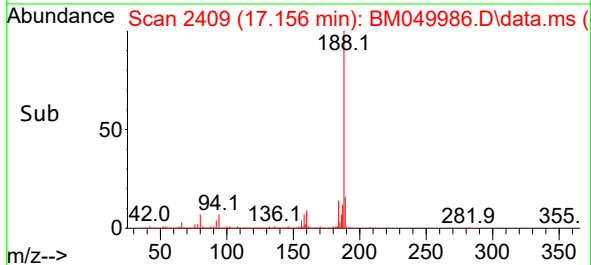
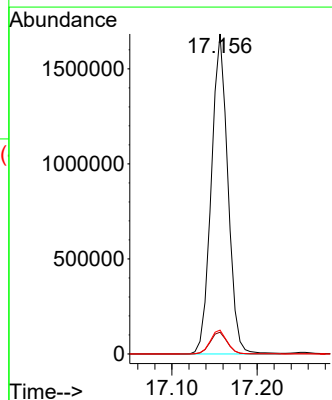
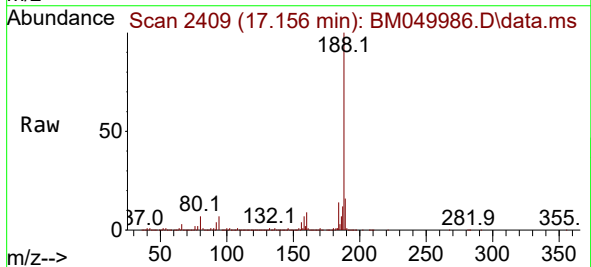
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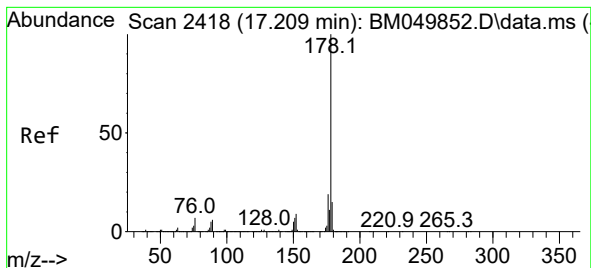
Tgt Ion:166 Resp: 158848
Ion Ratio Lower Upper
166 100
165 96.7 76.3 114.5
167 13.6 10.7 16.1



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.156 min Scan# 2409
Delta R.T. -0.006 min
Lab File: BM049986.D
Acq: 21 Apr 2025 15:53

Tgt Ion:188 Resp: 2274706
Ion Ratio Lower Upper
188 100
94 6.8 5.8 8.6
80 7.4 6.4 9.6





#71

Phenanthrene

Concen: 27.317 ng

RT: 17.198 min Scan# 2418

Delta R.T. -0.012 min

Lab File: BM049986.D

Acq: 21 Apr 2025 15:53

Instrument :

BNA_M

ClientSampleId :

PL-714-COMP-01DL

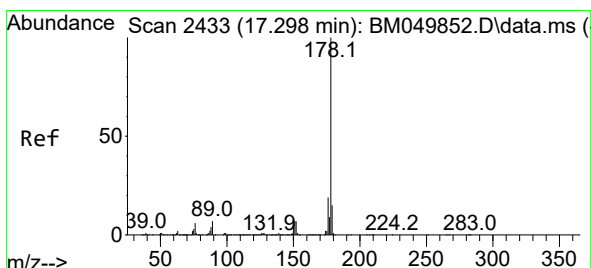
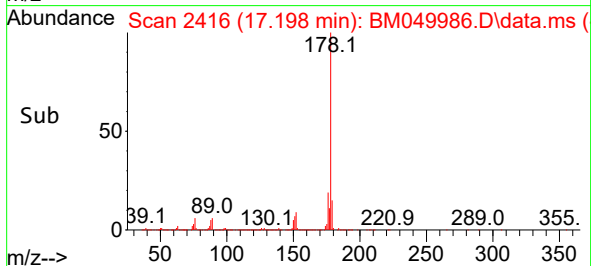
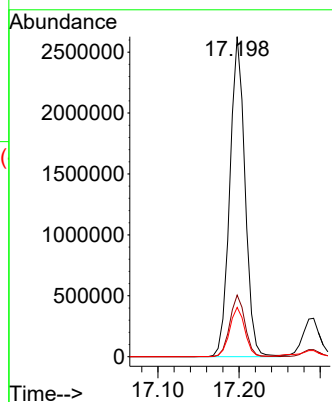
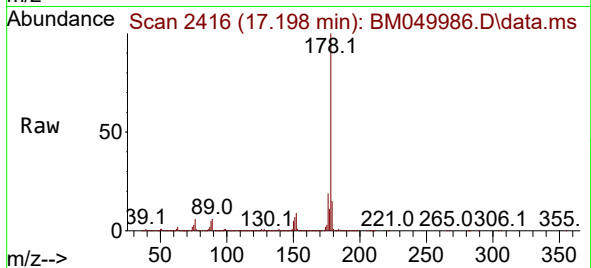
Tgt Ion:178 Resp: 3406622

Ion Ratio Lower Upper

178 100

176 19.2 15.4 23.2

179 15.4 12.3 18.5



#72

Anthracene

Concen: 3.684 ng

RT: 17.292 min Scan# 2432

Delta R.T. -0.006 min

Lab File: BM049986.D

Acq: 21 Apr 2025 15:53

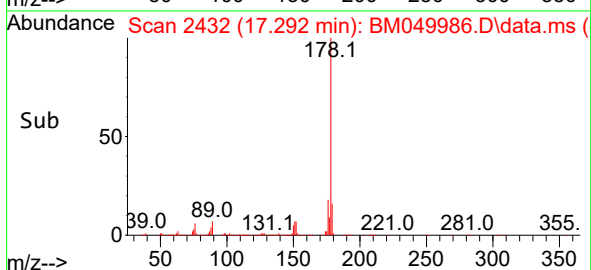
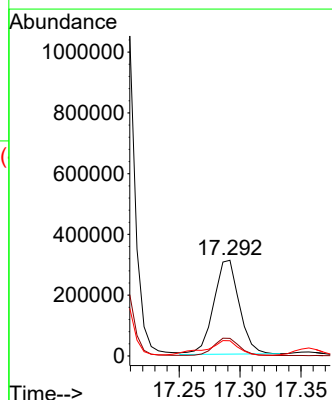
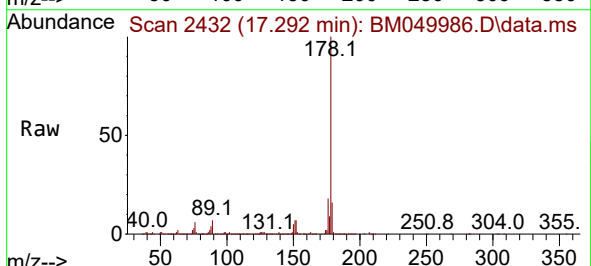
Tgt Ion:178 Resp: 452779

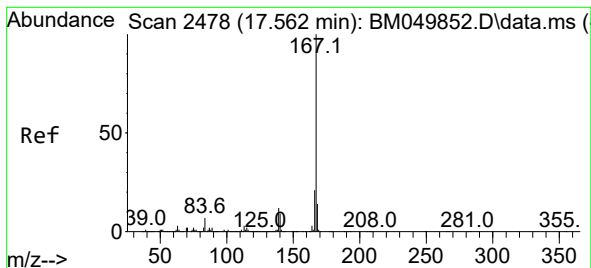
Ion Ratio Lower Upper

178 100

176 18.4 15.1 22.7

179 15.9 12.4 18.6





#73

Carbazole

Concen: 2.487 ng

RT: 17.562 min Scan# 24

Delta R.T. -0.000 min

Lab File: BM049986.D

Acq: 21 Apr 2025 15:53

Instrument :

BNA_M

ClientSampleId :

PL-714-COMP-01DL

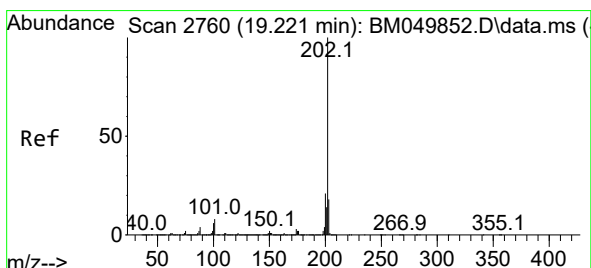
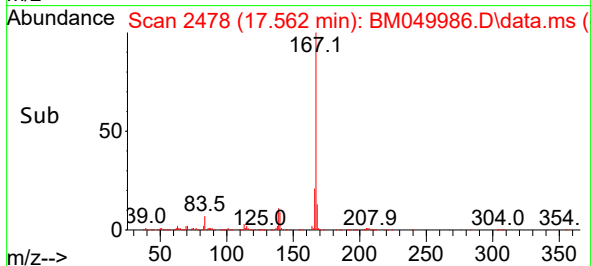
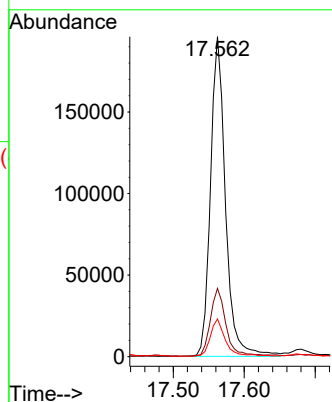
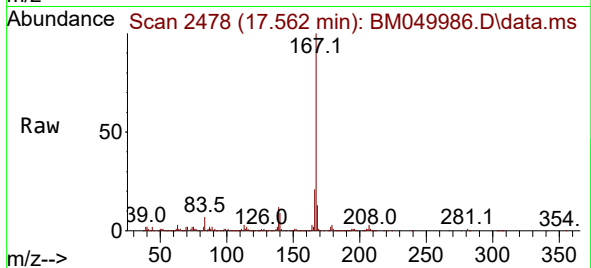
Tgt Ion:167 Resp: 287826

Ion Ratio Lower Upper

167 100

166 21.4 16.9 25.3

139 11.8 9.3 13.9



#75

Fluoranthene

Concen: 49.257 ng

RT: 19.215 min Scan# 2759

Delta R.T. -0.006 min

Lab File: BM049986.D

Acq: 21 Apr 2025 15:53

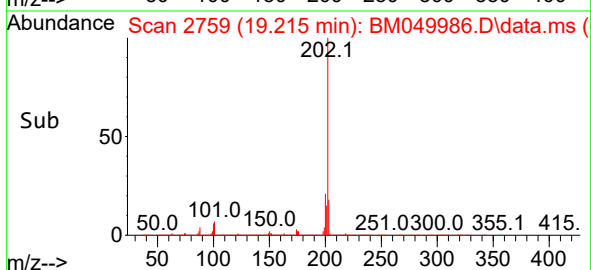
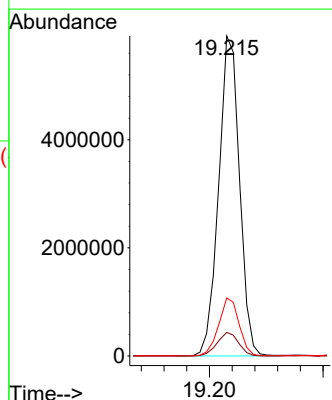
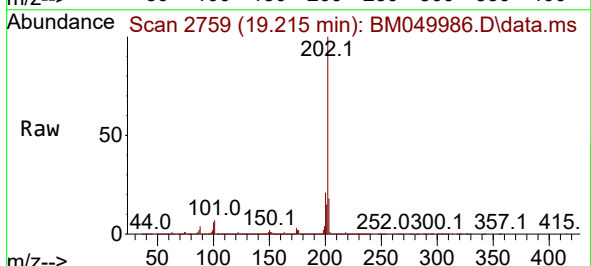
Tgt Ion:202 Resp: 7552829

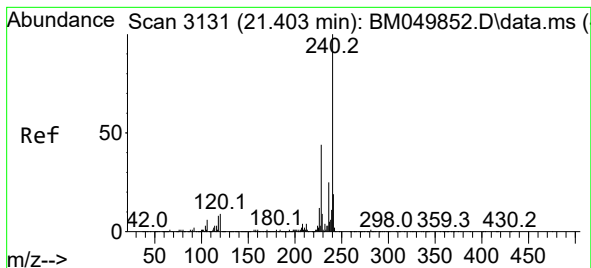
Ion Ratio Lower Upper

202 100

101 7.3 0.0 28.4

203 18.1 0.0 37.8





#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.397 min Scan# 31

Delta R.T. -0.006 min

Lab File: BM049986.D

Acq: 21 Apr 2025 15:53

Instrument :

BNA_M

ClientSampleId :

PL-714-COMP-01DL

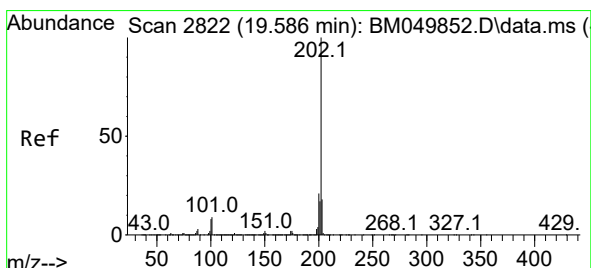
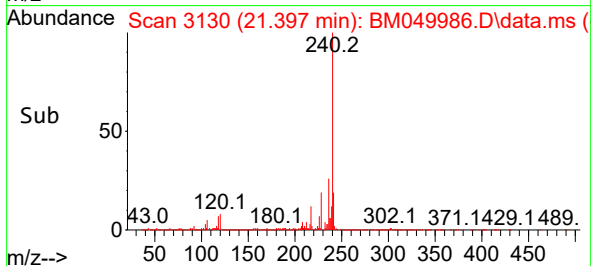
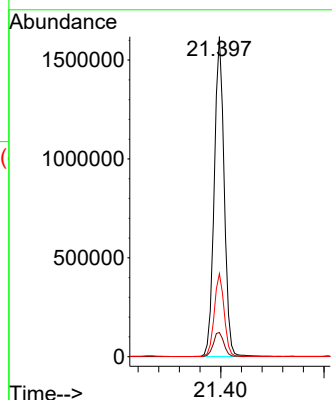
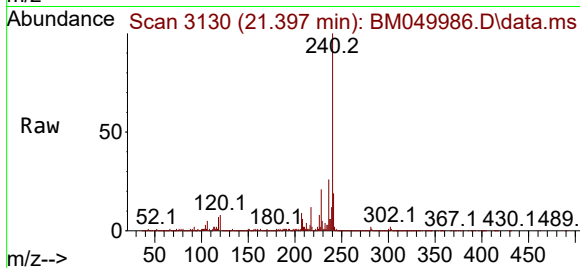
Tgt Ion:240 Resp: 2159953

Ion Ratio Lower Upper

240 100

120 7.5 6.9 10.3

236 25.9 20.4 30.6



#78

Pyrene

Concen: 42.458 ng

RT: 19.580 min Scan# 2821

Delta R.T. -0.006 min

Lab File: BM049986.D

Acq: 21 Apr 2025 15:53

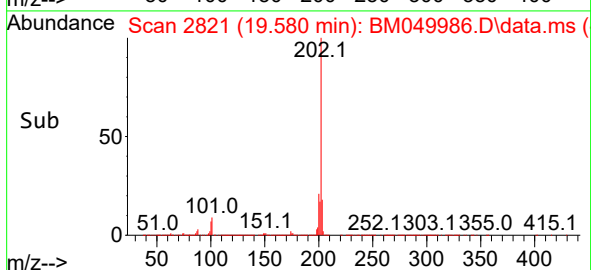
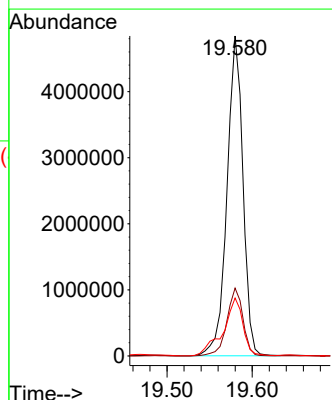
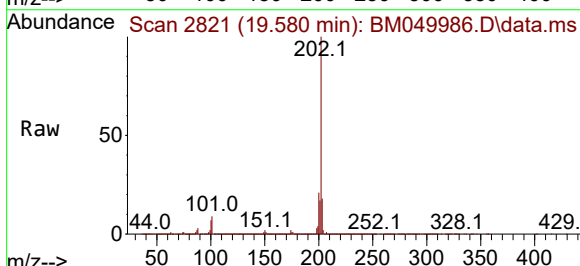
Tgt Ion:202 Resp: 6320261

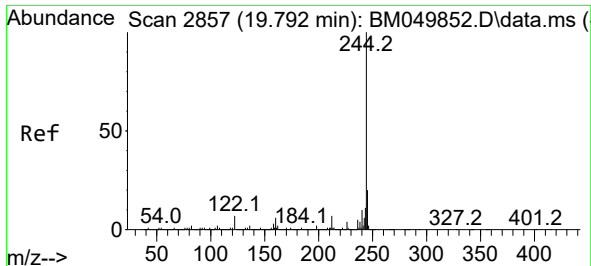
Ion Ratio Lower Upper

202 100

200 21.2 16.5 24.7

203 18.1 14.0 21.0

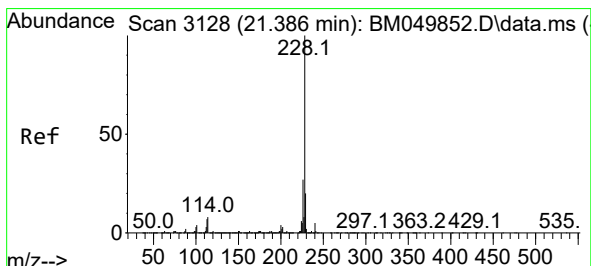
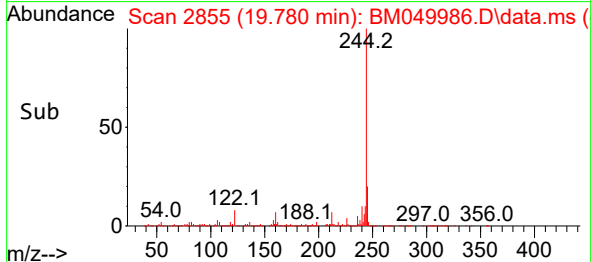
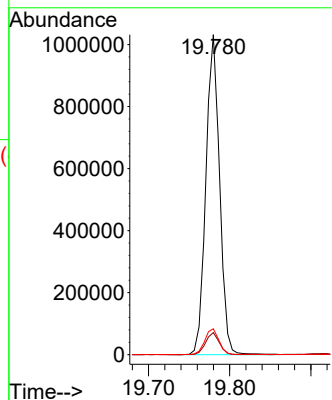
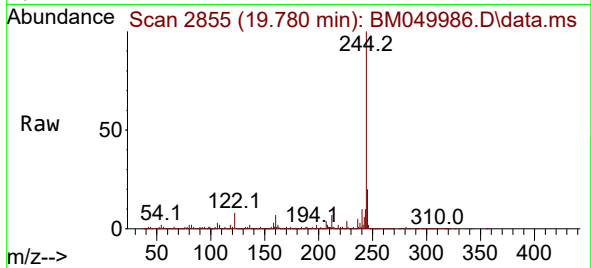




#79
 Terphenyl-d14
 Concen: 10.445 ng
 RT: 19.780 min Scan# 21
 Delta R.T. -0.012 min
 Lab File: BM049986.D
 Acq: 21 Apr 2025 15:53

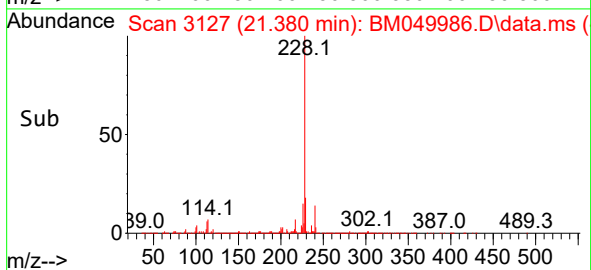
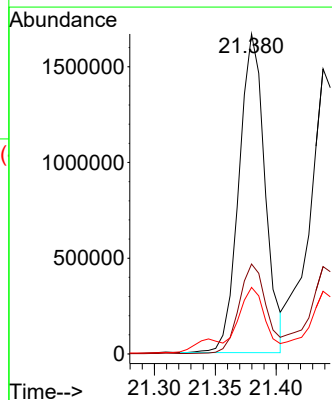
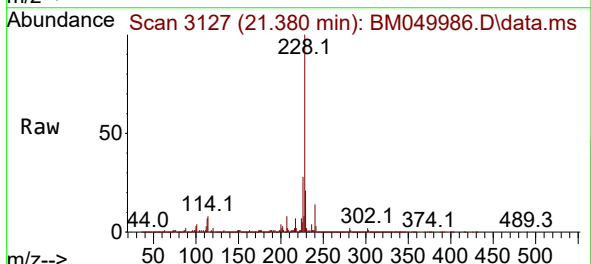
Instrument :
 BNA_M
 ClientSampleId :
 PL-714-COMP-01DL

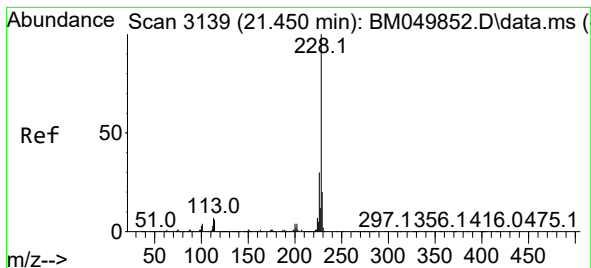
Tgt Ion:244 Resp: 1203894
 Ion Ratio Lower Upper
 244 100
 212 6.9 5.5 8.3
 122 8.1 5.4 8.0#



#81
 Benzo(a)anthracene
 Concen: 17.266 ng
 RT: 21.380 min Scan# 3127
 Delta R.T. -0.006 min
 Lab File: BM049986.D
 Acq: 21 Apr 2025 15:53

Tgt Ion:228 Resp: 2478510
 Ion Ratio Lower Upper
 228 100
 226 28.1 21.8 32.8
 229 20.8 15.8 23.8





#83

Chrysene

Concen: 17.976 ng

RT: 21.439 min Scan# 31

Delta R.T. -0.012 min

Lab File: BM049986.D

Acq: 21 Apr 2025 15:53

Instrument :

BNA_M

ClientSampleId :

PL-714-COMP-01DL

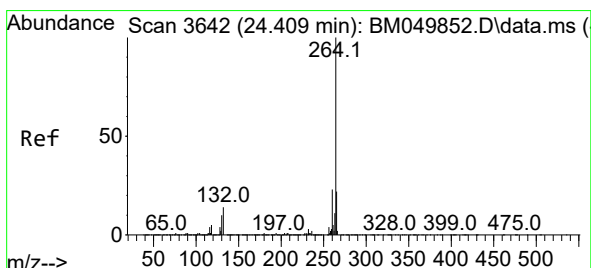
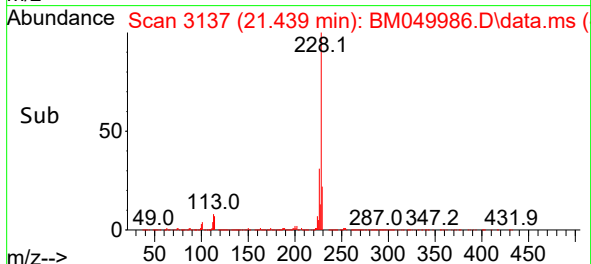
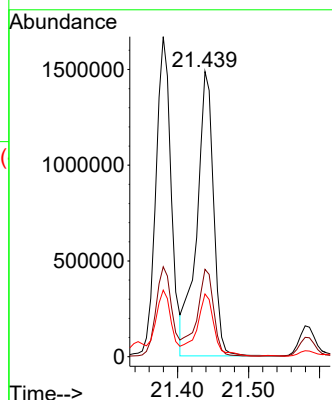
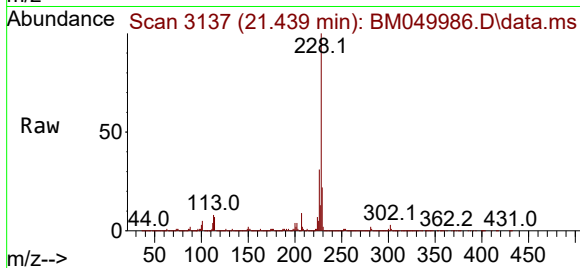
Tgt Ion:228 Resp: 2453189

Ion Ratio Lower Upper

228 100

226 30.7 24.1 36.1

229 22.0 15.8 23.6



#86

Perylene-d12

Concen: 20.000 ng

RT: 24.397 min Scan# 3640

Delta R.T. -0.012 min

Lab File: BM049986.D

Acq: 21 Apr 2025 15:53

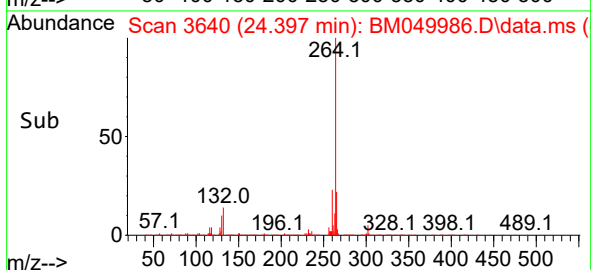
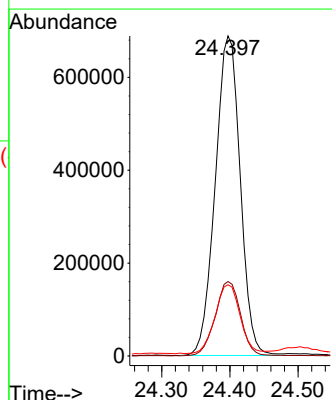
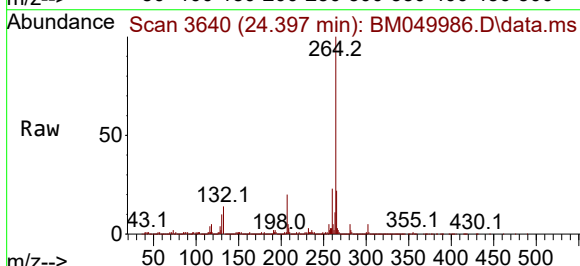
Tgt Ion:264 Resp: 1753279

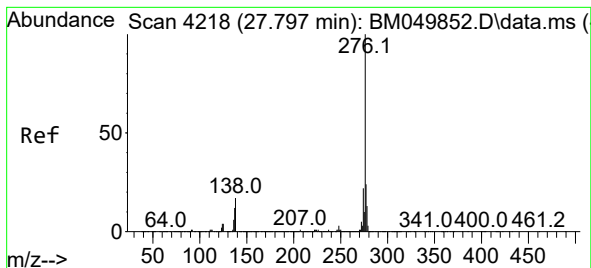
Ion Ratio Lower Upper

264 100

260 23.3 18.6 28.0

265 22.3 17.8 26.8





#87

Indeno(1,2,3-cd)pyrene

Concen: 7.994 ng

RT: 27.785 min Scan# 4218

Delta R.T. -0.012 min

Lab File: BM049986.D

Acq: 21 Apr 2025 15:53

Instrument :

BNA_M

ClientSampleId :

PL-714-COMP-01DL

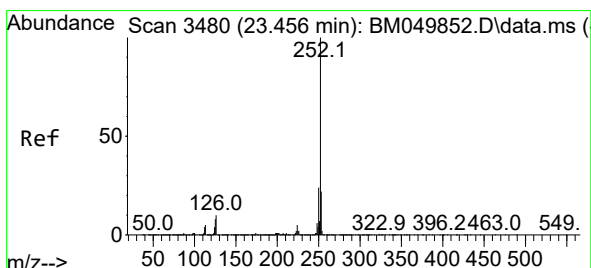
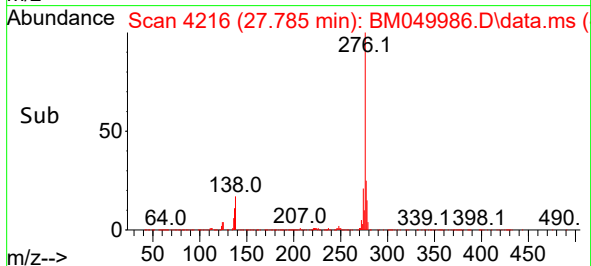
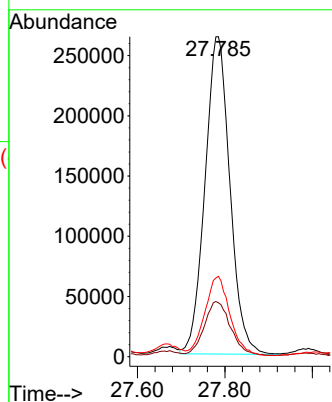
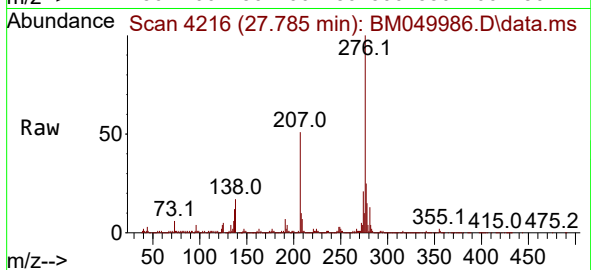
Tgt Ion:276 Resp: 1044730

Ion Ratio Lower Upper

276 100

138 18.1 16.8 25.2

277 25.1 20.1 30.1



#88

Benzo(b)fluoranthene

Concen: 23.512 ng

RT: 23.456 min Scan# 3480

Delta R.T. -0.000 min

Lab File: BM049986.D

Acq: 21 Apr 2025 15:53

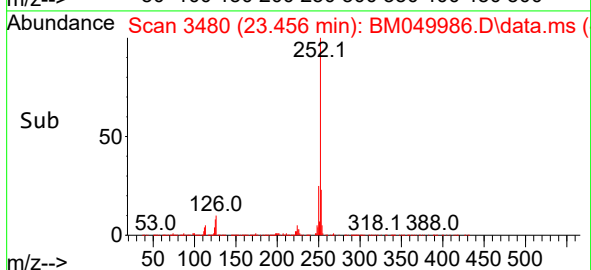
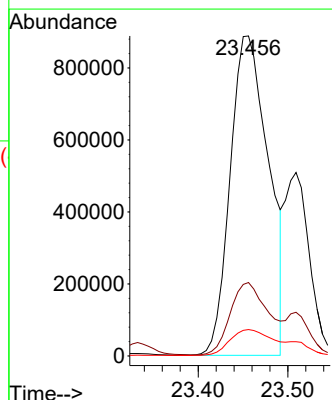
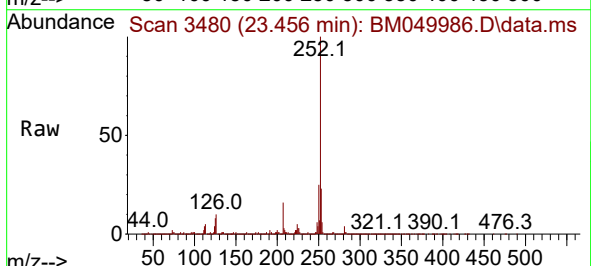
Tgt Ion:252 Resp: 2632749

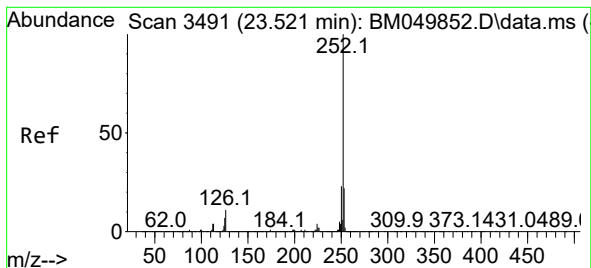
Ion Ratio Lower Upper

252 100

253 22.9 17.5 26.3

125 8.3 6.2 9.4





#89

Benzo(k)fluoranthene

Concen: 8.926 ng m

RT: 23.509 min Scan# 34

Delta R.T. -0.012 min

Lab File: BM049986.D

Acq: 21 Apr 2025 15:53

Instrument :

BNA_M

ClientSampleId :

PL-714-COMP-01DL

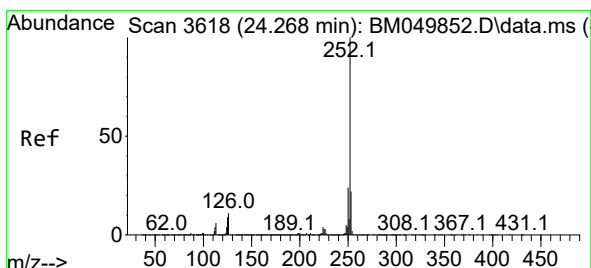
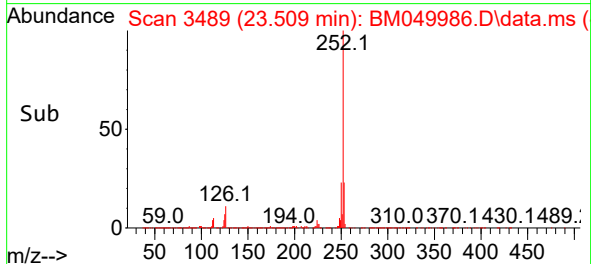
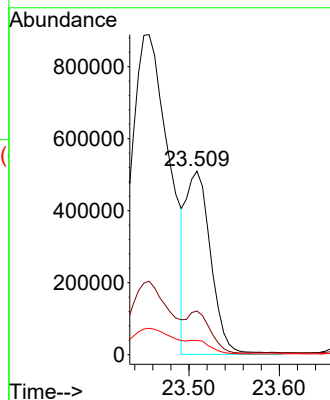
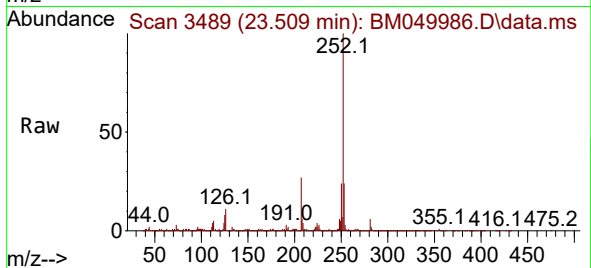
Tgt Ion:252 Resp: 968531

Ion Ratio Lower Upper

252 100

253 23.8 17.4 26.2

125 7.8 5.8 8.8



#90

Benzo(a)pyrene

Concen: 17.905 ng

RT: 24.256 min Scan# 3616

Delta R.T. -0.012 min

Lab File: BM049986.D

Acq: 21 Apr 2025 15:53

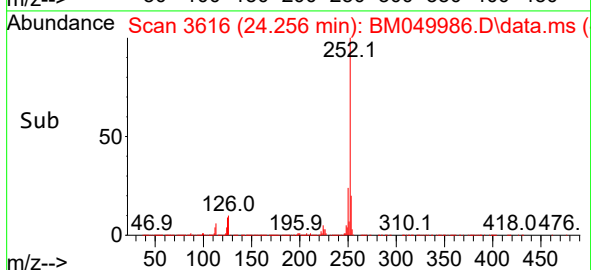
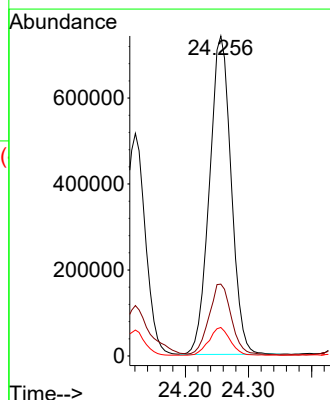
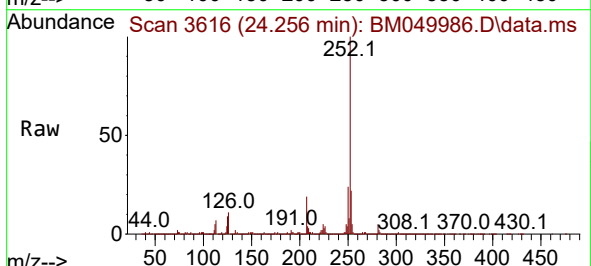
Tgt Ion:252 Resp: 1761759

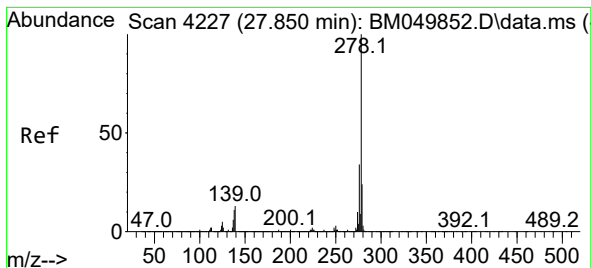
Ion Ratio Lower Upper

252 100

253 22.4 17.8 26.8

125 8.9 7.0 10.4





#91

Dibenzo(a,h)anthracene

Concen: 2.504 ng

RT: 27.815 min Scan# 41

Delta R.T. -0.035 min

Lab File: BM049986.D

Acq: 21 Apr 2025 15:53

Instrument :

BNA_M

ClientSampleId :

PL-714-COMP-01DL

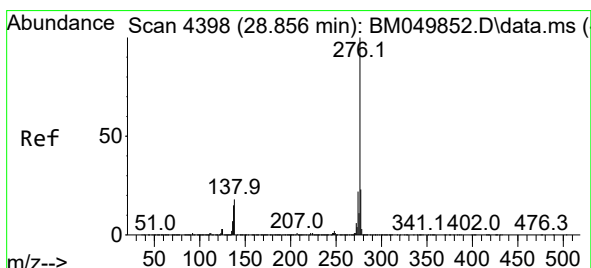
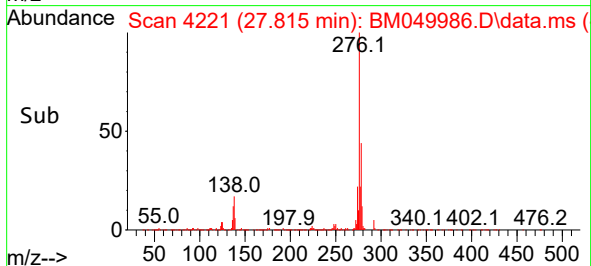
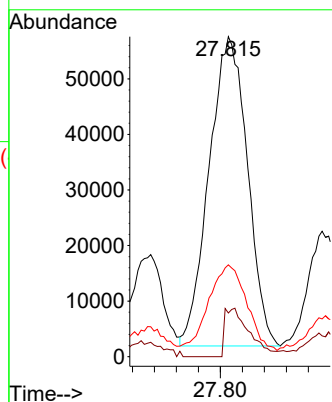
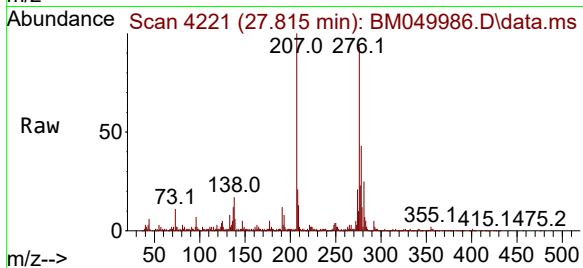
Tgt Ion:278 Resp: 269541

Ion Ratio Lower Upper

278 100

139 13.6 10.6 15.8

279 28.7 19.1 28.7#



#92

Benzo(g,h,i)perylene

Concen: 8.948 ng

RT: 28.838 min Scan# 4395

Delta R.T. -0.018 min

Lab File: BM049986.D

Acq: 21 Apr 2025 15:53

Tgt Ion:276 Resp: 984281

Ion Ratio Lower Upper

276 100

277 24.1 18.7 28.1

138 17.6 14.6 21.8

