

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM042125\
 Data File : BM049985.D
 Acq On : 21 Apr 2025 15:14
 Operator : RC/JU
 Sample : Q1825-07DL 50X
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 TP-11DL

Quant Time: Apr 21 15:50:35 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)

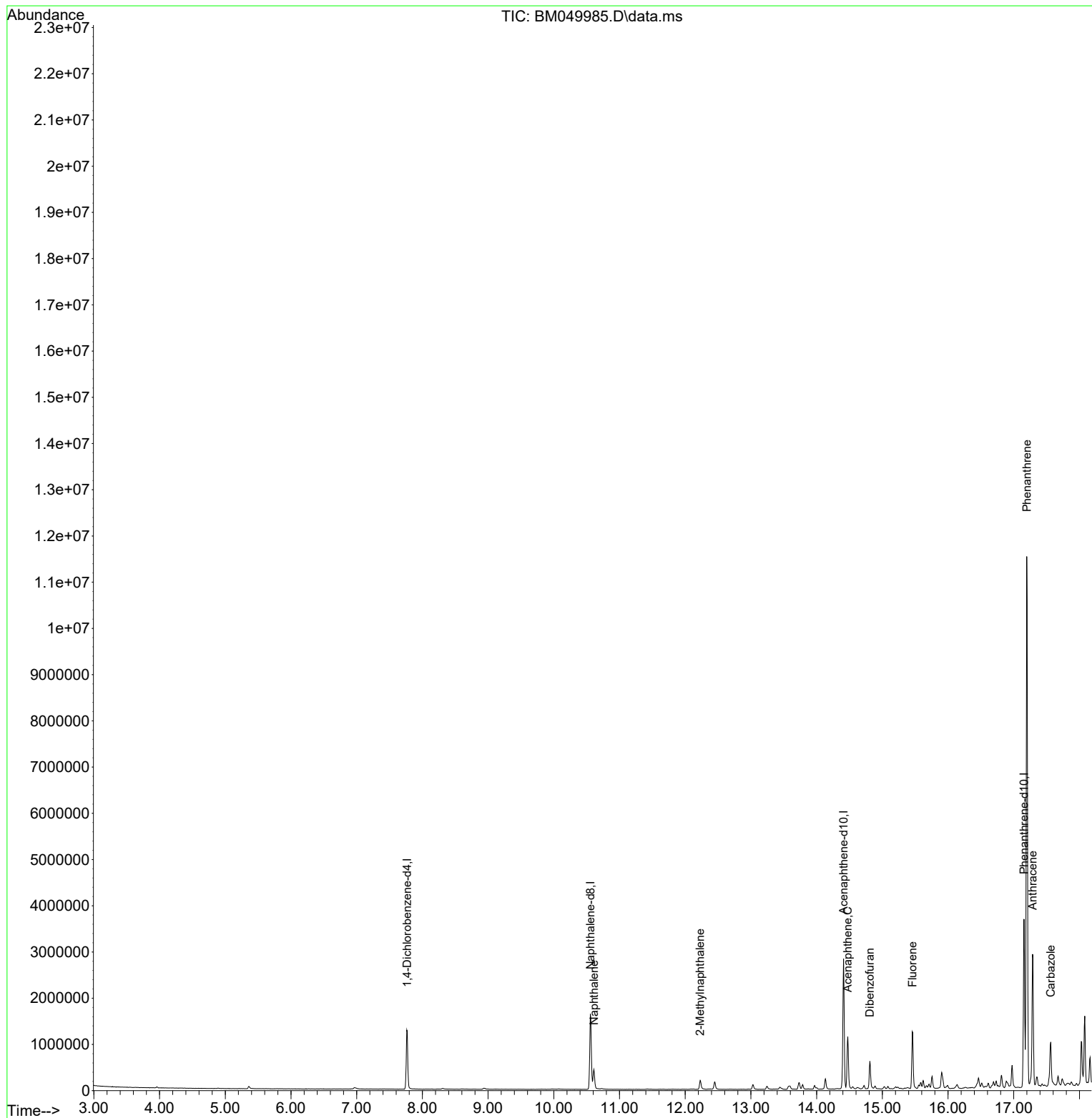
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.769	152	393230	20.000	ng	-0.01
21) Naphthalene-d8	10.557	136	1450828	20.000	ng	-0.02
39) Acenaphthene-d10	14.410	164	1018188	20.000	ng	-0.01
64) Phenanthrene-d10	17.157	188	2131610	20.000	ng	0.00
76) Chrysene-d12	21.397	240	1858308	20.000	ng	0.00
86) Perylene-d12	24.397	264	1531054	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.357	112	28925	1.249	ng	0.00
7) Phenol-d6	6.969	99	33040	1.147	ng	0.02
23) Nitrobenzene-d5	8.939	82	21216	0.814	ng	0.00
42) 2,4,6-Tribromophenol	15.910	330	16645	1.124	ng	0.00
45) 2-Fluorobiphenyl	13.033	172	64505	0.859	ng	-0.01
79) Terphenyl-d14	19.780	244	123405	1.245	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	10.610	128	353710	4.745	ng	99
37) 2-Methylnaphthalene	12.227	142	118760	2.261	ng	100
52) Acenaphthene	14.474	154	421863	7.653	ng	99
55) Dibenzofuran	14.810	168	412737	4.479	ng	99
58) Fluorene	15.457	166	580482	7.925	ng	99
71) Phenanthrene	17.198	178	7102256	60.774	ng	99
72) Anthracene	17.286	178	1898415	16.484	ng	100
73) Carbazole	17.562	167	646014	5.956	ng	99
75) Fluoranthene	19.221	202	11314562	78.744	ng	96
78) Pyrene	19.580	202	9189704	71.755	ng	97
81) Benzo(a)anthracene	21.380	228	4236733	34.305	ng	98
83) Chrysene	21.439	228	3422564m	29.149	ng	
87) Indeno(1,2,3-cd)pyrene	27.785	276	1732318	15.179	ng	96
88) Benzo(b)fluoranthene	23.456	252	3931339	40.205	ng	98
89) Benzo(k)fluoranthene	23.509	252	1455285m	15.358	ng	
90) Benzo(a)pyrene	24.256	252	2851886	33.191	ng	98
91) Dibenzo(a,h)anthracene	27.821	278	463986m	4.936	ng	
92) Benzo(g,h,i)perylene	28.844	276	1594524	16.599	ng	99

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM042125\
Data File : BM049985.D
Acq On : 21 Apr 2025 15:14
Operator : RC/JU
Sample : Q1825-07DL 50X
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
TP-11DL

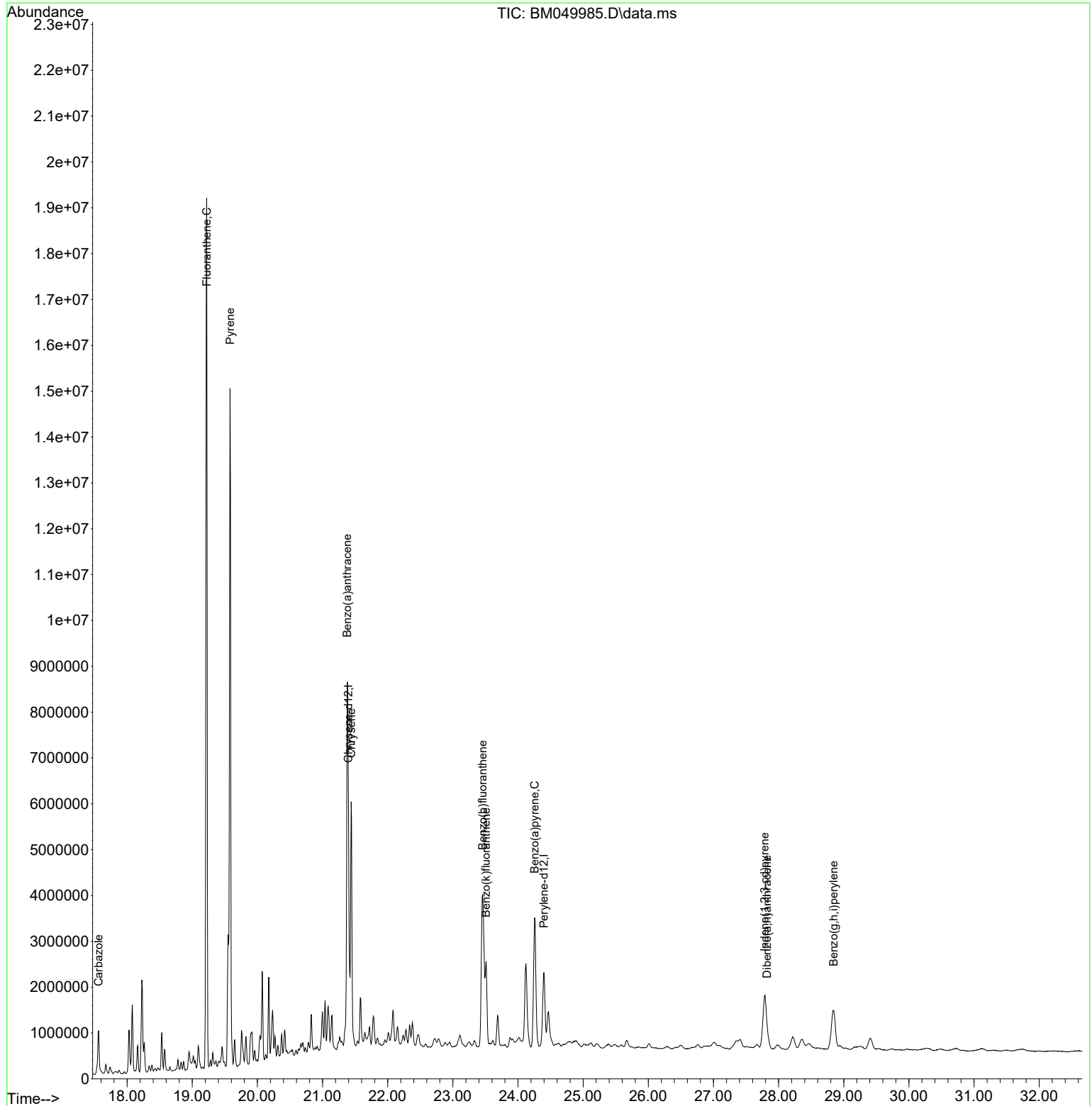
Quant Time: Apr 21 15:50:35 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM040825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 09 04:00:55 2025
Response via : Initial Calibration



Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM042125\
Data File : BM049985.D
Acq On : 21 Apr 2025 15:14
Operator : RC/JU
Sample : Q1825-07DL 50X
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
TP-11DL

Quant Time: Apr 21 15:50:35 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

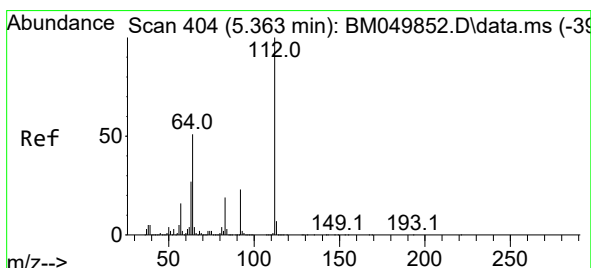
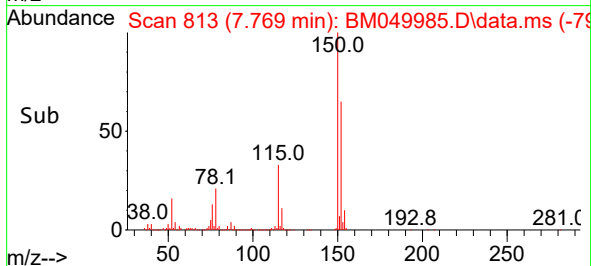
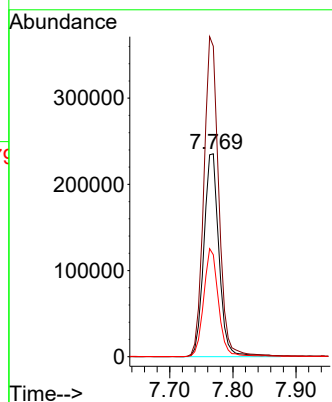
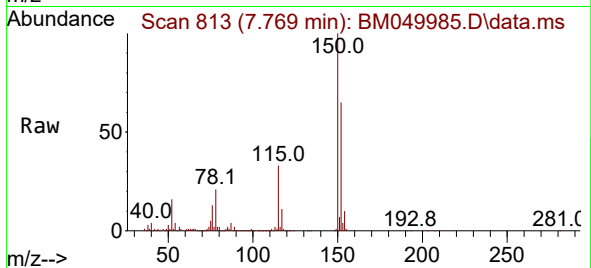




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.769 min Scan# 815
Delta R.T. -0.012 min
Lab File: BM049985.D
Acq: 21 Apr 2025 15:14

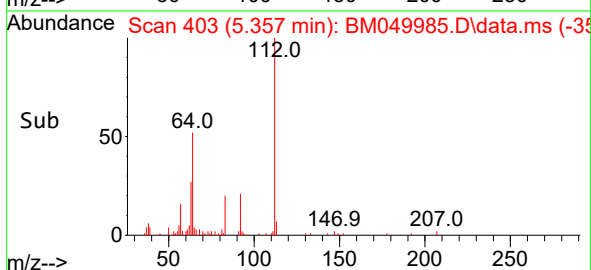
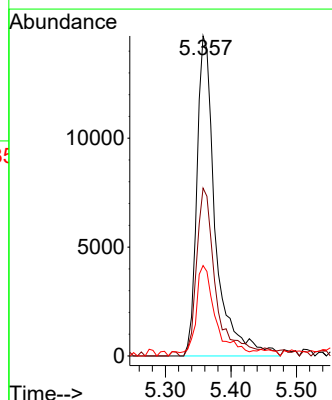
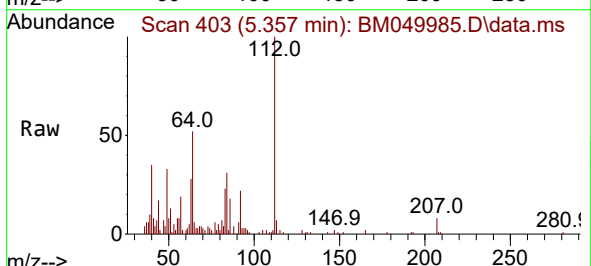
Instrument :
BNA_M
ClientSampleId :
TP-11DL

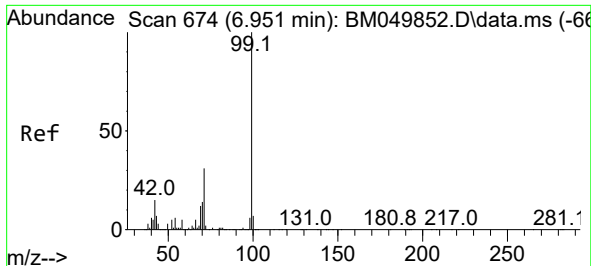
Tgt Ion:152 Resp: 393230
Ion Ratio Lower Upper
152 100
150 153.0 124.3 186.5
115 50.2 41.1 61.7



#5
2-Fluorophenol
Concen: 1.249 ng
RT: 5.357 min Scan# 403
Delta R.T. -0.006 min
Lab File: BM049985.D
Acq: 21 Apr 2025 15:14

Tgt Ion:112 Resp: 28925
Ion Ratio Lower Upper
112 100
64 52.4 41.0 61.6
63 28.2 21.5 32.3

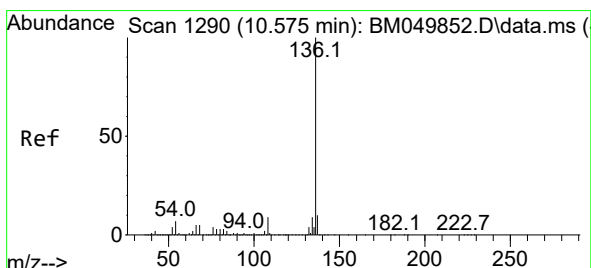
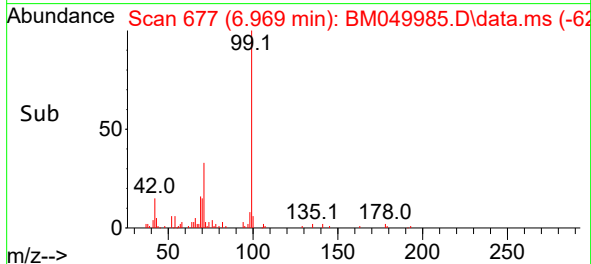
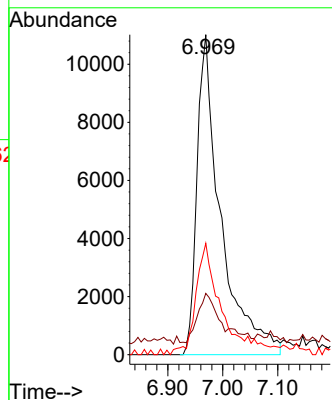
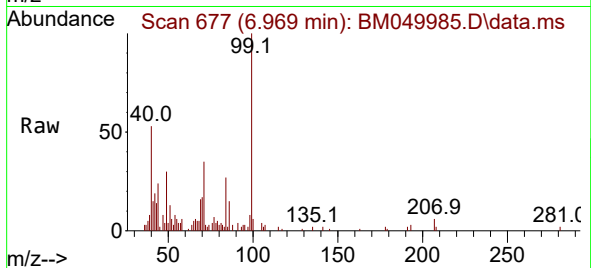




#7
Phenol-d6
Concen: 1.147 ng
RT: 6.969 min Scan# 61
Delta R.T. 0.018 min
Lab File: BM049985.D
Acq: 21 Apr 2025 15:14

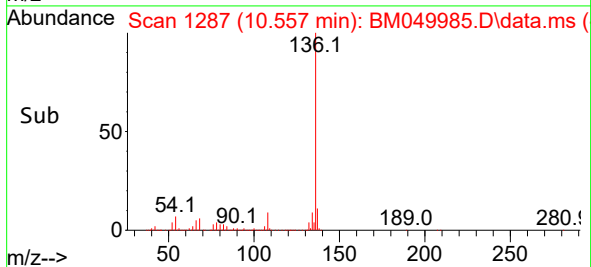
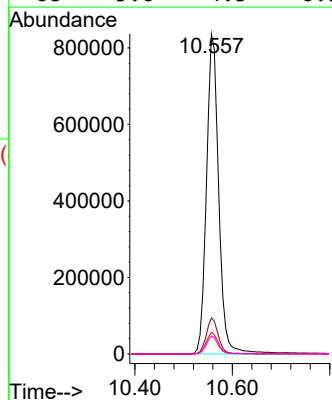
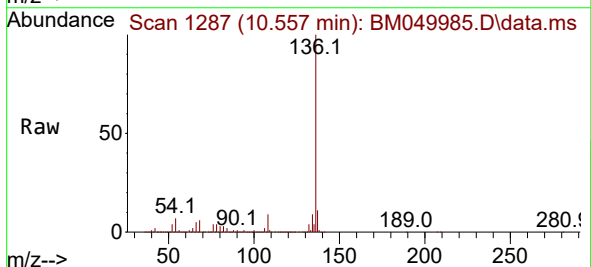
Instrument :
BNA_M
ClientSampleId :
TP-11DL

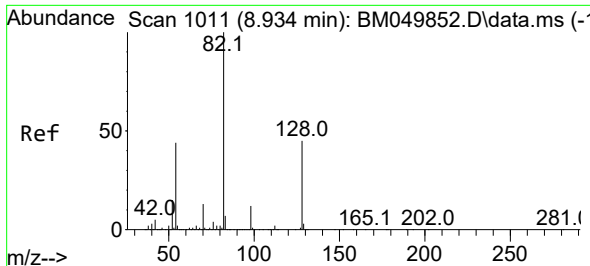
Tgt Ion: 99 Resp: 33040
Ion Ratio Lower Upper
99 100
42 19.2 12.1 18.1#
71 34.8 24.9 37.3



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.557 min Scan# 1287
Delta R.T. -0.018 min
Lab File: BM049985.D
Acq: 21 Apr 2025 15:14

Tgt Ion:136 Resp: 1450828
Ion Ratio Lower Upper
136 100
137 11.3 8.4 12.6
54 6.7 5.3 7.9
68 5.6 4.3 6.5

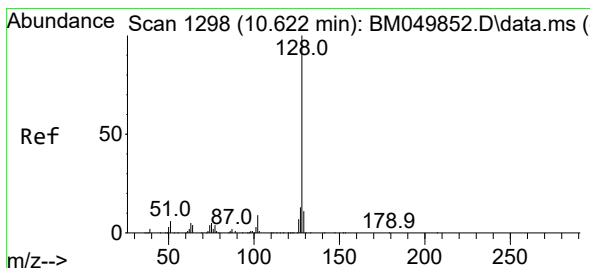
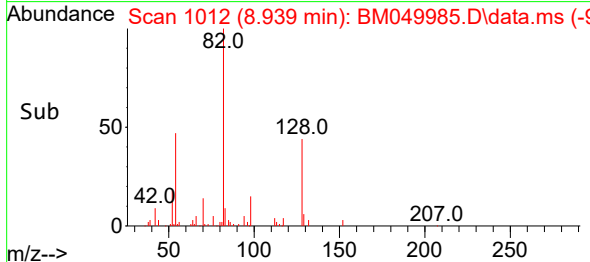
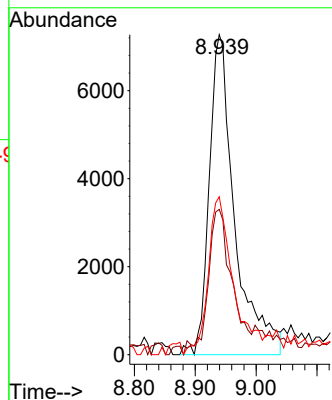
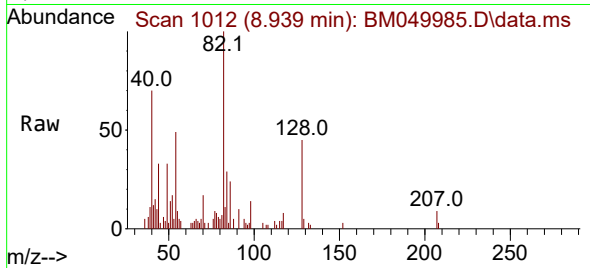




#23
 Nitrobenzene-d5
 Concen: 0.814 ng
 RT: 8.939 min Scan# 1011
 Delta R.T. 0.006 min
 Lab File: BM049985.D
 Acq: 21 Apr 2025 15:14

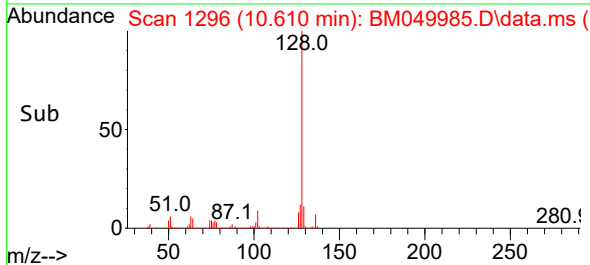
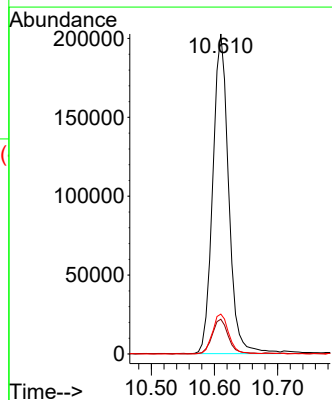
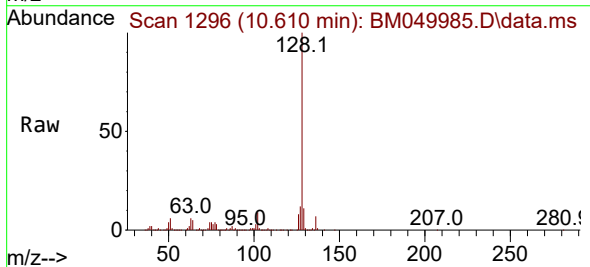
Instrument :
 BNA_M
 ClientSampleId :
 TP-11DL

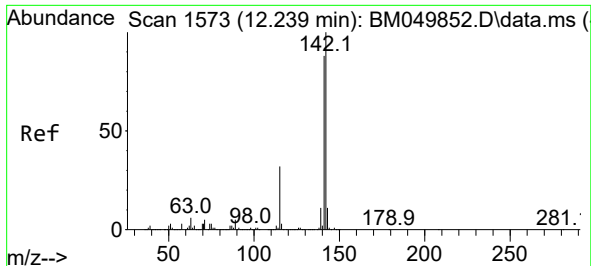
Tgt Ion: 82 Resp: 21216
 Ion Ratio Lower Upper
 82 100
 128 45.4 36.2 54.2
 54 49.4 35.0 52.6



#31
 Naphthalene
 Concen: 4.745 ng
 RT: 10.610 min Scan# 1296
 Delta R.T. -0.012 min
 Lab File: BM049985.D
 Acq: 21 Apr 2025 15:14

Tgt Ion: 128 Resp: 353710
 Ion Ratio Lower Upper
 128 100
 129 10.8 8.8 13.2
 127 12.5 10.6 15.8

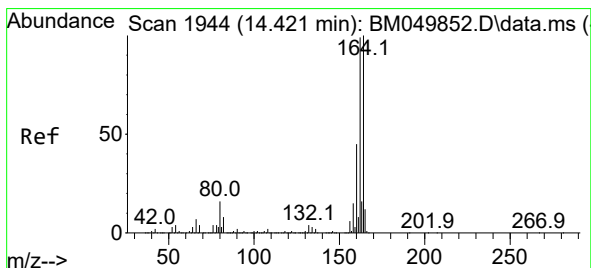
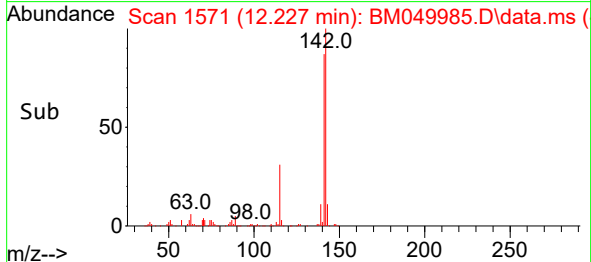
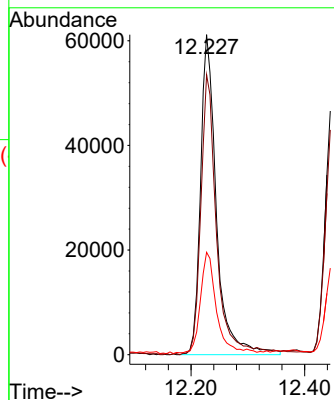
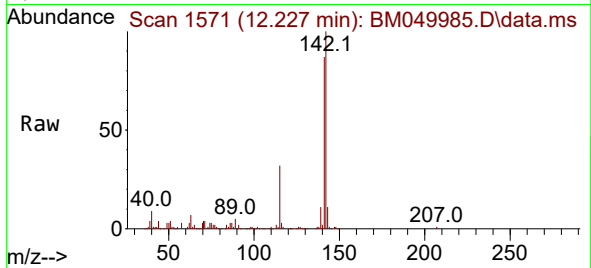




#37
 2-Methylnaphthalene
 Concen: 2.261 ng
 RT: 12.227 min Scan# 1
 Delta R.T. -0.012 min
 Lab File: BM049985.D
 Acq: 21 Apr 2025 15:14

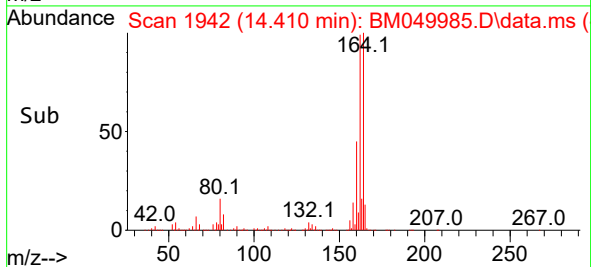
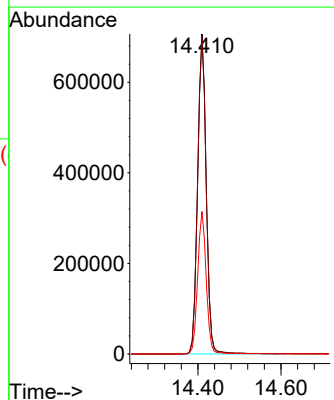
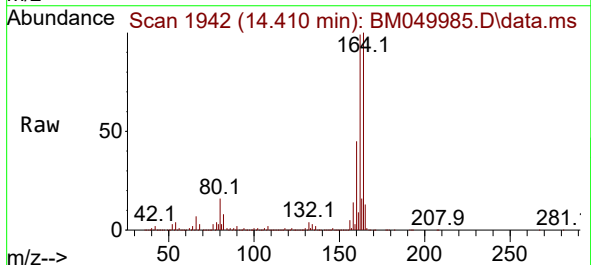
Instrument :
 BNA_M
 ClientSampleId :
 TP-11DL

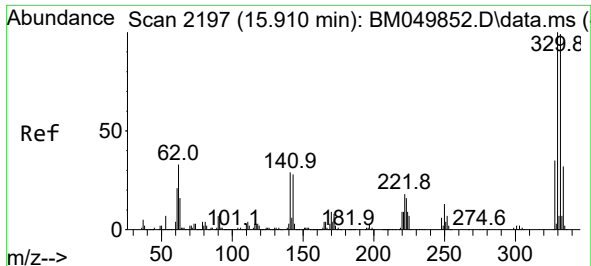
Tgt Ion:142 Resp: 118760
 Ion Ratio Lower Upper
 142 100
 141 87.5 70.2 105.2
 115 32.0 25.4 38.2



#39
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 14.410 min Scan# 1942
 Delta R.T. -0.012 min
 Lab File: BM049985.D
 Acq: 21 Apr 2025 15:14

Tgt Ion:164 Resp: 1018188
 Ion Ratio Lower Upper
 164 100
 162 99.0 79.4 119.0
 160 44.5 36.2 54.2

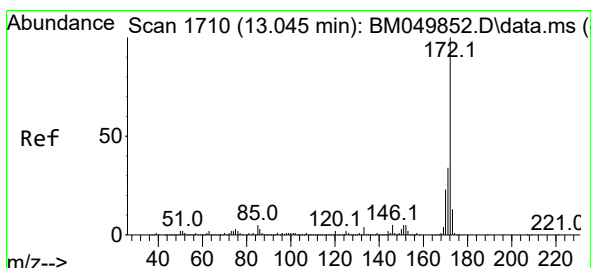
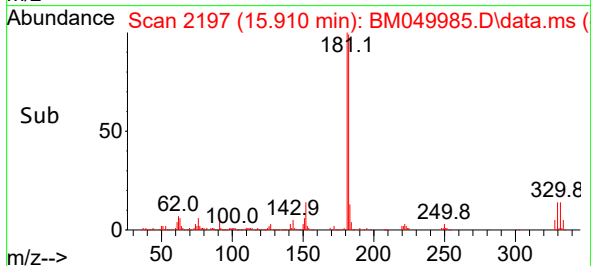
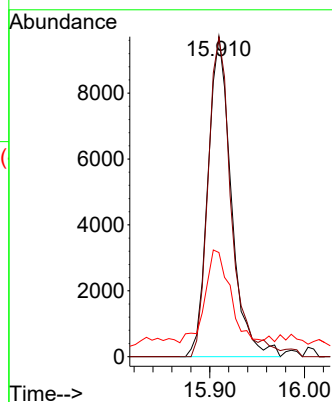
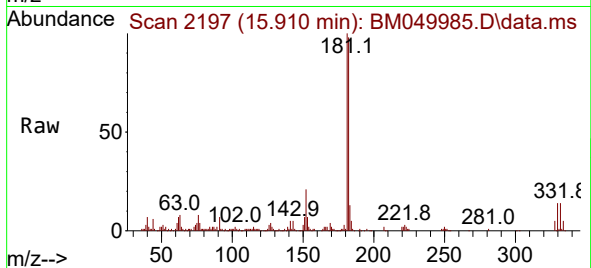




#42
 2,4,6-Tribromophenol
 Concen: 1.124 ng
 RT: 15.910 min Scan# 2197
 Delta R.T. 0.000 min
 Lab File: BM049985.D
 Acq: 21 Apr 2025 15:14

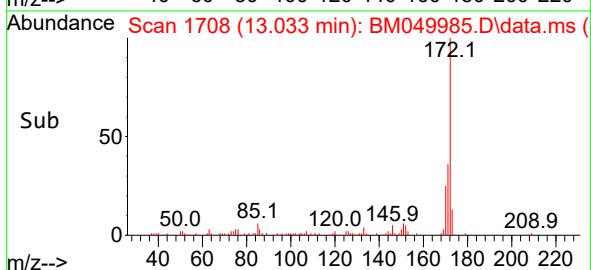
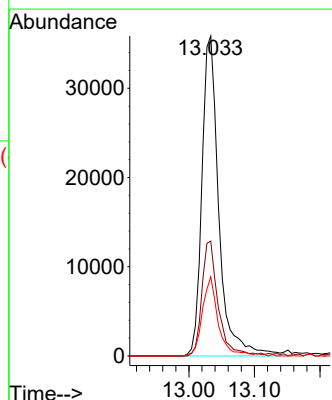
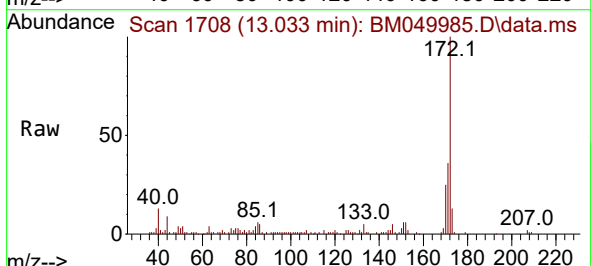
Instrument :
 BNA_M
 ClientSampleId :
 TP-11DL

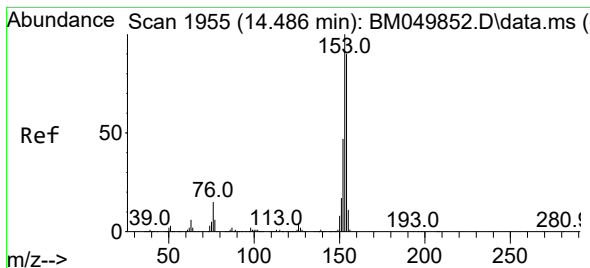
Tgt Ion:330 Resp: 16645
 Ion Ratio Lower Upper
 330 100
 332 99.7 78.0 117.0
 141 34.7 23.5 35.3



#45
 2-Fluorobiphenyl
 Concen: 0.859 ng
 RT: 13.033 min Scan# 1708
 Delta R.T. -0.012 min
 Lab File: BM049985.D
 Acq: 21 Apr 2025 15:14

Tgt Ion:172 Resp: 64505
 Ion Ratio Lower Upper
 172 100
 171 35.9 27.4 41.2
 170 24.7 18.6 28.0





#52

Acenaphthene

Concen: 7.653 ng

RT: 14.474 min Scan# 1953

Delta R.T. -0.012 min

Lab File: BM049985.D

Acq: 21 Apr 2025 15:14

Instrument :

BNA_M

ClientSampleId :

TP-11DL

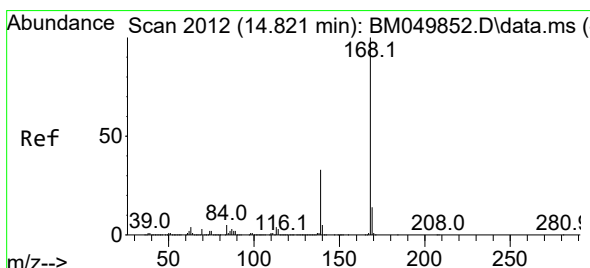
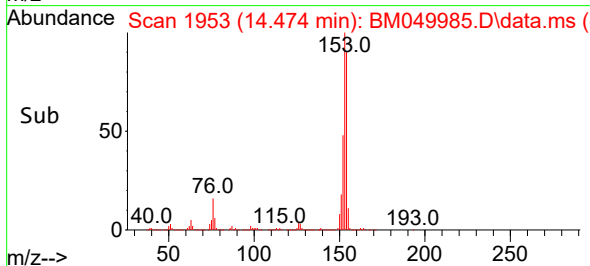
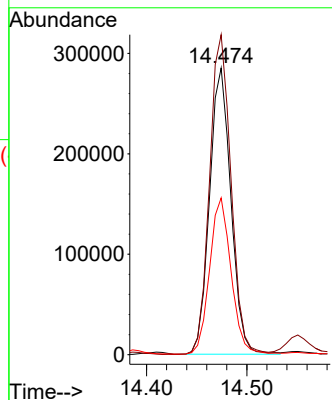
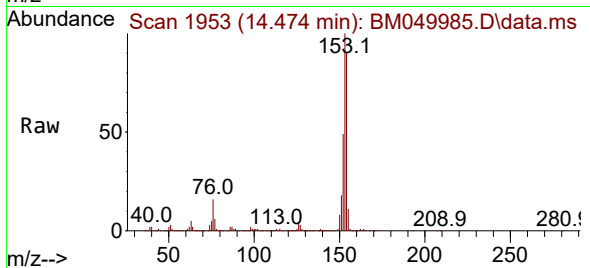
Tgt Ion:154 Resp: 421863

Ion Ratio Lower Upper

154 100

153 111.6 89.3 133.9

152 54.7 42.2 63.2



#55

Dibenzofuran

Concen: 4.479 ng

RT: 14.810 min Scan# 2010

Delta R.T. -0.012 min

Lab File: BM049985.D

Acq: 21 Apr 2025 15:14

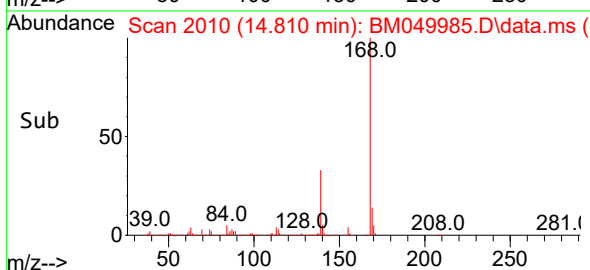
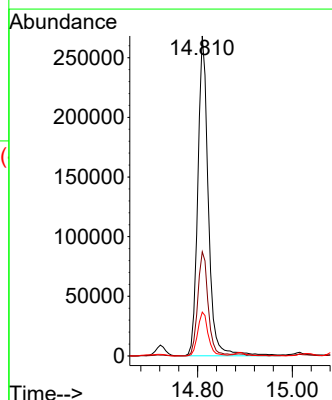
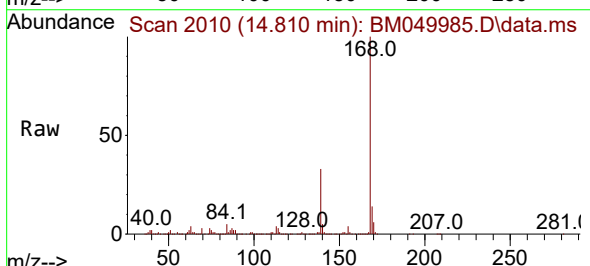
Tgt Ion:168 Resp: 412737

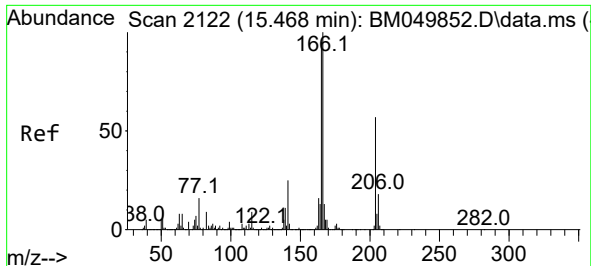
Ion Ratio Lower Upper

168 100

139 32.5 26.6 39.8

169 13.7 11.0 16.4

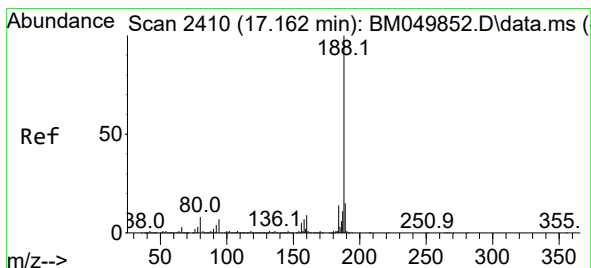
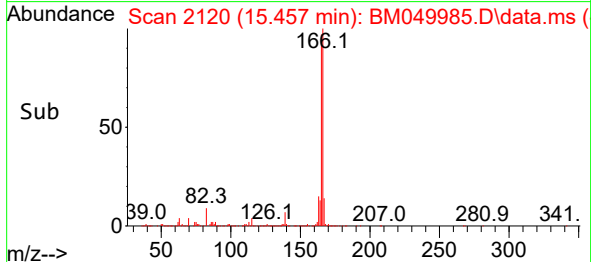
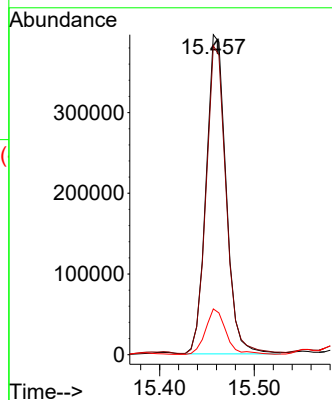
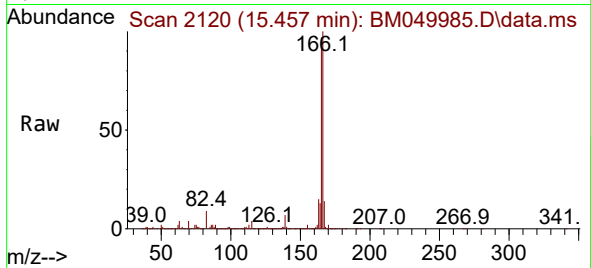




#58
Fluorene
Concen: 7.925 ng
RT: 15.457 min Scan# 2122
Delta R.T. -0.012 min
Lab File: BM049985.D
Acq: 21 Apr 2025 15:14

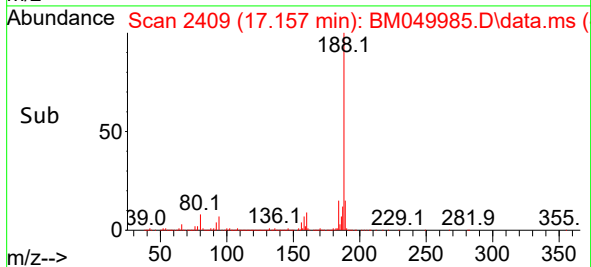
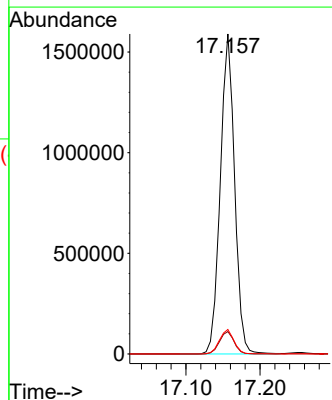
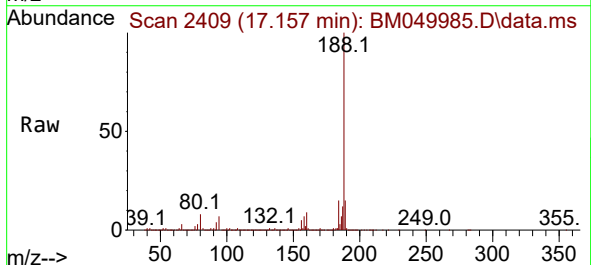
Instrument :
BNA_M
ClientSampleId :
TP-11DL

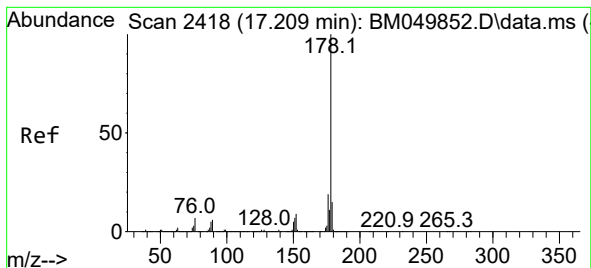
Tgt Ion:166 Resp: 580482
Ion Ratio Lower Upper
166 100
165 96.5 76.3 114.5
167 14.3 10.7 16.1



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.157 min Scan# 2409
Delta R.T. -0.006 min
Lab File: BM049985.D
Acq: 21 Apr 2025 15:14

Tgt Ion:188 Resp: 2131610
Ion Ratio Lower Upper
188 100
94 7.0 5.8 8.6
80 7.6 6.4 9.6





#71

Phenanthrene

Concen: 60.774 ng

RT: 17.198 min Scan# 2418

Delta R.T. -0.012 min

Lab File: BM049985.D

Acq: 21 Apr 2025 15:14

Instrument :

BNA_M

ClientSampleId :

TP-11DL

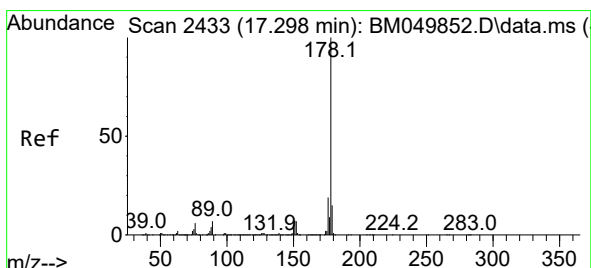
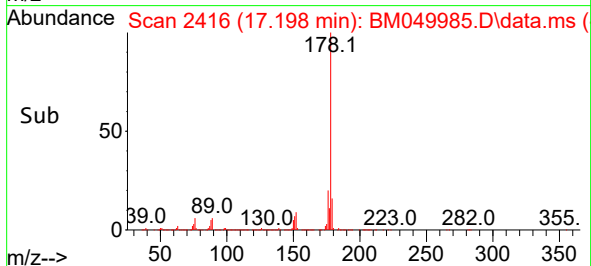
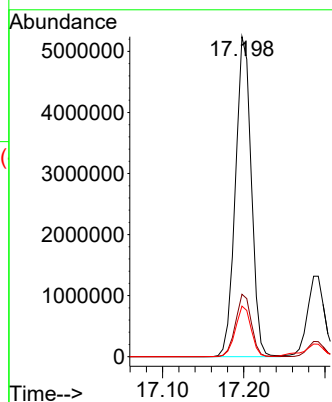
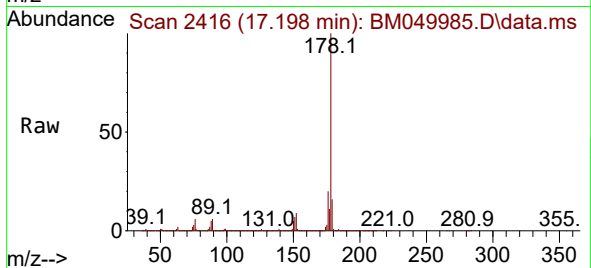
Tgt Ion:178 Resp: 7102256

Ion Ratio Lower Upper

178 100

176 19.5 15.4 23.2

179 15.8 12.3 18.5



#72

Anthracene

Concen: 16.484 ng

RT: 17.286 min Scan# 2431

Delta R.T. -0.012 min

Lab File: BM049985.D

Acq: 21 Apr 2025 15:14

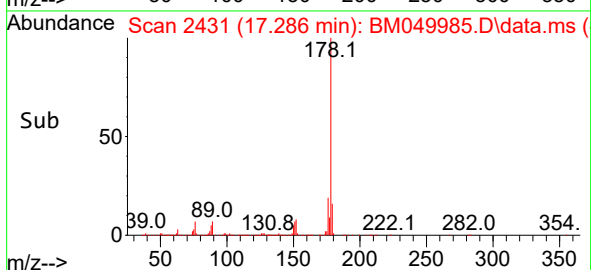
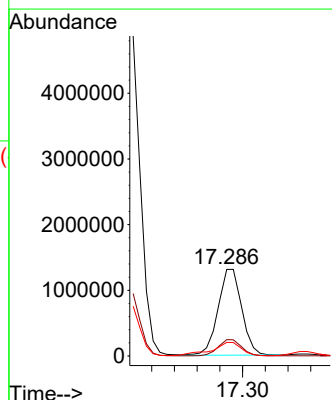
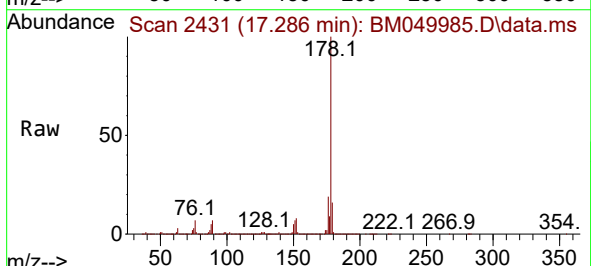
Tgt Ion:178 Resp: 1898415

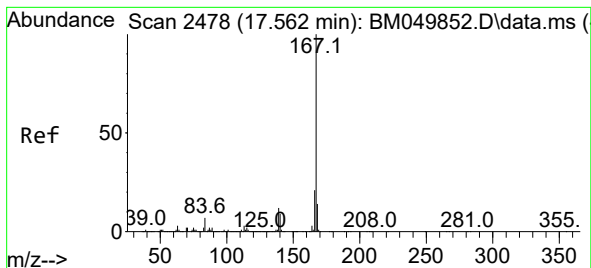
Ion Ratio Lower Upper

178 100

176 18.8 15.1 22.7

179 15.8 12.4 18.6





#73

Carbazole

Concen: 5.956 ng

RT: 17.562 min Scan# 24

Delta R.T. 0.000 min

Lab File: BM049985.D

Acq: 21 Apr 2025 15:14

Instrument :

BNA_M

ClientSampleId :

TP-11DL

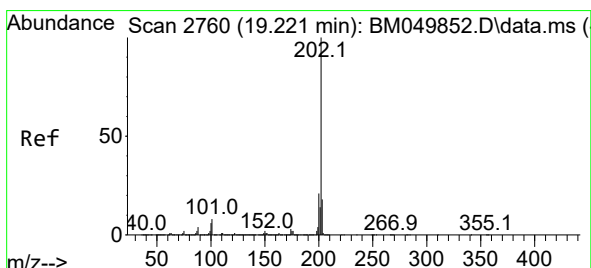
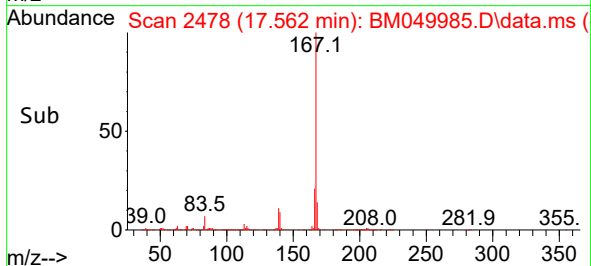
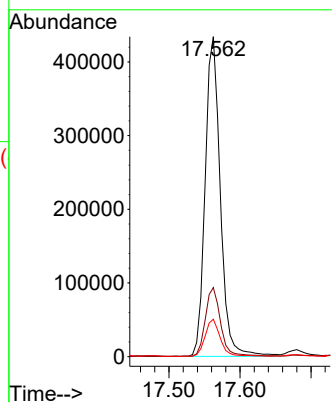
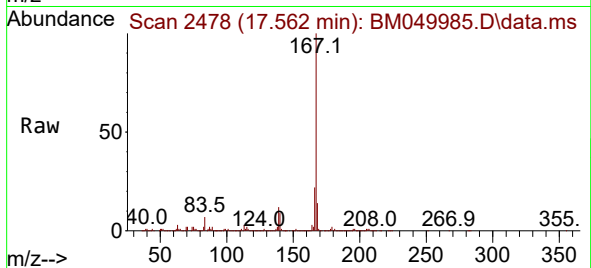
Tgt Ion:167 Resp: 646014

Ion Ratio Lower Upper

167 100

166 21.6 16.9 25.3

139 11.7 9.3 13.9



#75

Fluoranthene

Concen: 78.744 ng

RT: 19.221 min Scan# 2760

Delta R.T. 0.000 min

Lab File: BM049985.D

Acq: 21 Apr 2025 15:14

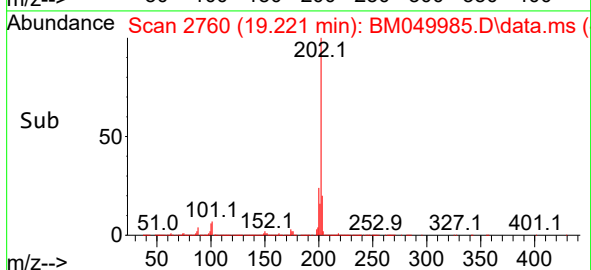
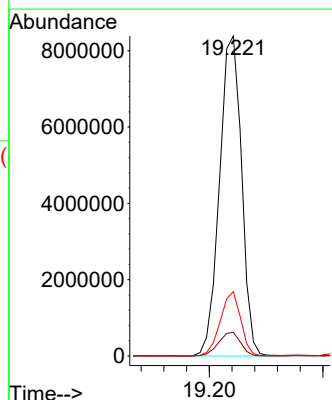
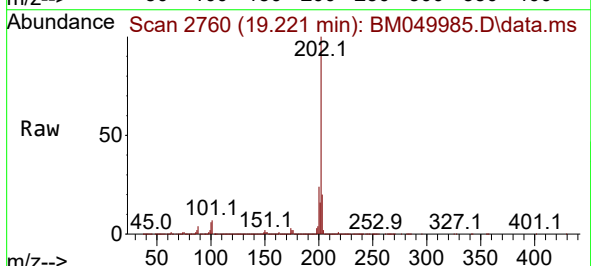
Tgt Ion:202 Resp:11314562

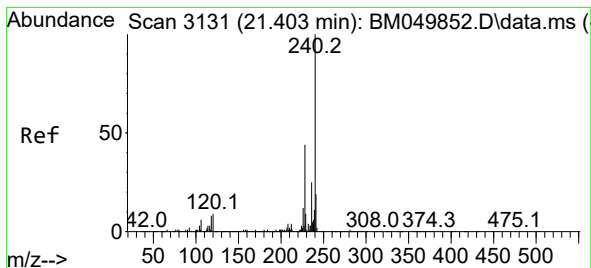
Ion Ratio Lower Upper

202 100

101 7.4 0.0 28.4

203 20.1 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: BM049985.D

Acq: 21 Apr 2025 15:14

Instrument :

BNA_M

ClientSampleId :

TP-11DL

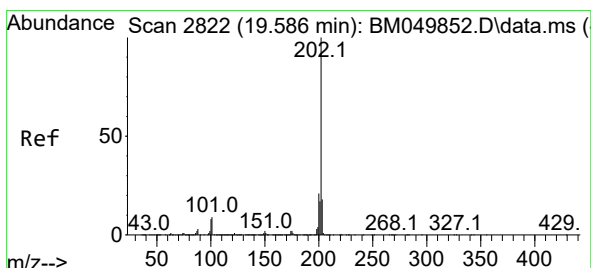
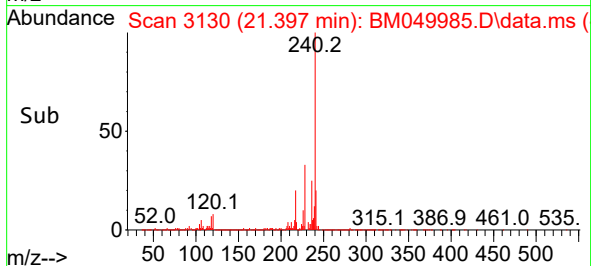
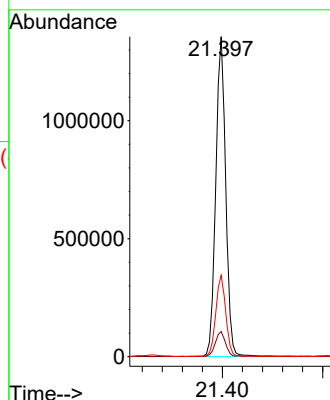
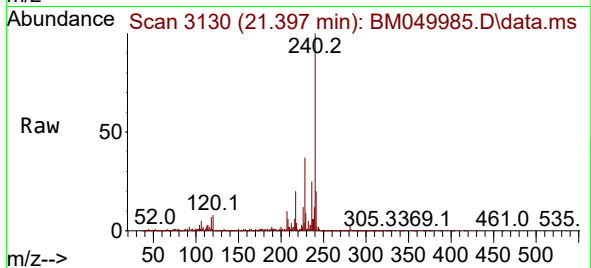
Tgt Ion:240 Resp: 1858308

Ion Ratio Lower Upper

240 100

120 7.9 6.9 10.3

236 25.4 20.4 30.6



#78

Pyrene

Concen: 71.755 ng

RT: 19.580 min Scan# 2821

Delta R.T. -0.006 min

Lab File: BM049985.D

Acq: 21 Apr 2025 15:14

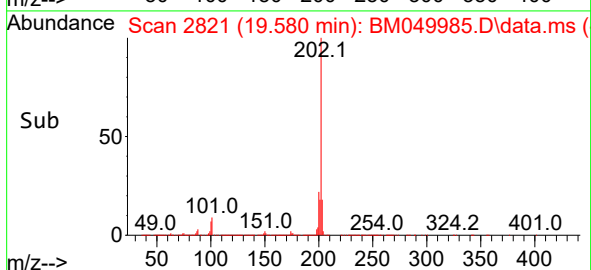
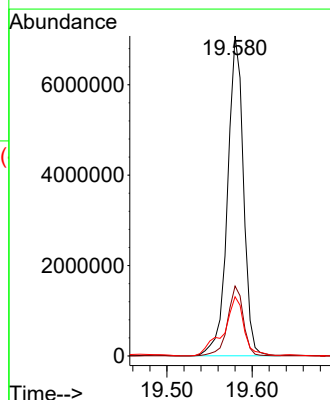
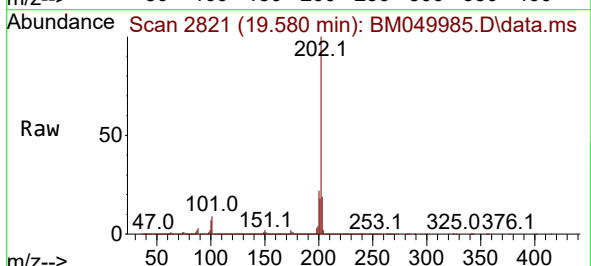
Tgt Ion:202 Resp: 9189704

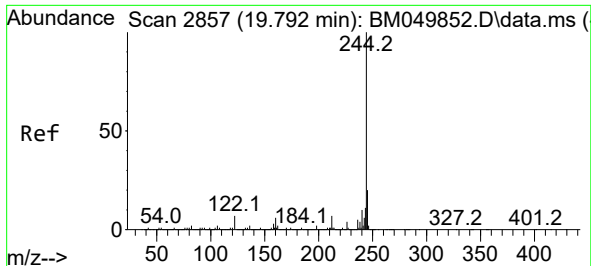
Ion Ratio Lower Upper

202 100

200 21.9 16.5 24.7

203 18.5 14.0 21.0

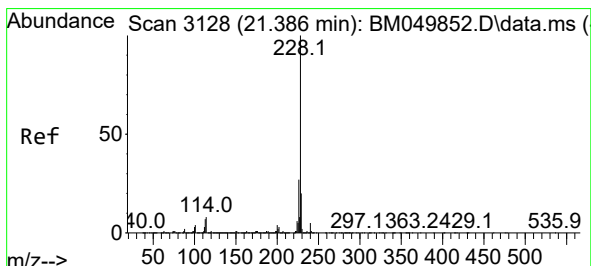
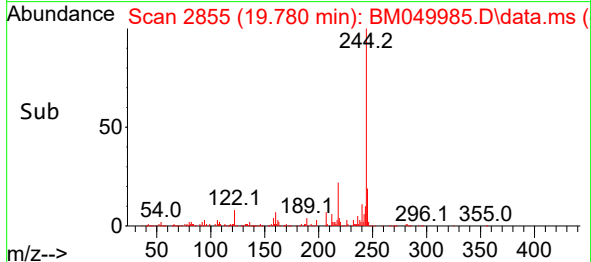
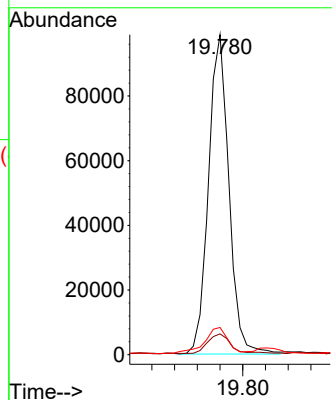
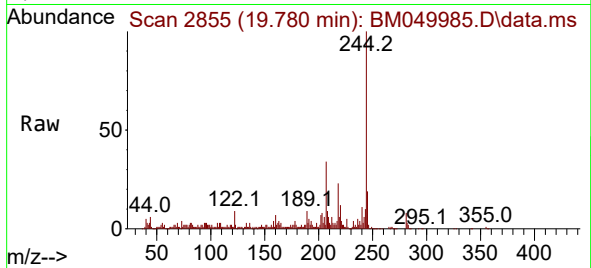




#79
 Terphenyl-d14
 Concen: 1.245 ng
 RT: 19.780 min Scan# 21
 Delta R.T. -0.012 min
 Lab File: BM049985.D
 Acq: 21 Apr 2025 15:14

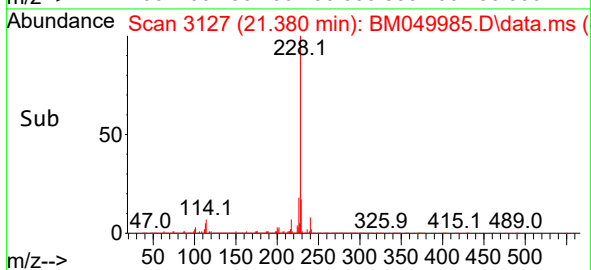
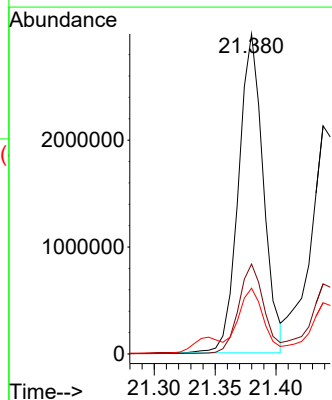
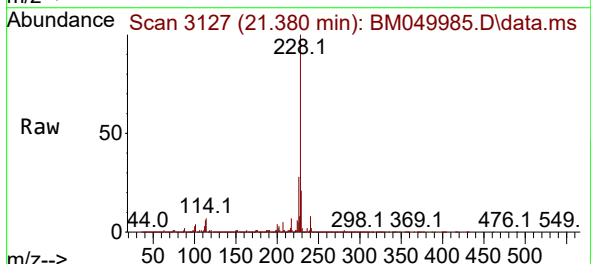
Instrument :
 BNA_M
 ClientSampleId :
 TP-11DL

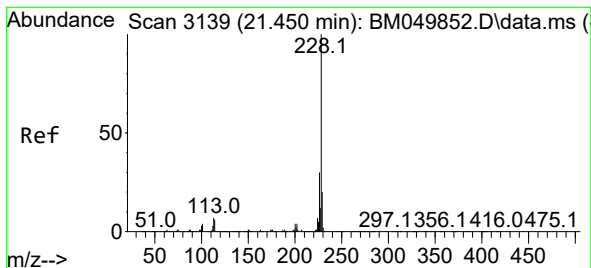
Tgt Ion:244 Resp: 123405
 Ion Ratio Lower Upper
 244 100
 212 6.5 5.5 8.3
 122 8.5 5.4 8.0#



#81
 Benzo(a)anthracene
 Concen: 34.305 ng
 RT: 21.380 min Scan# 3127
 Delta R.T. -0.006 min
 Lab File: BM049985.D
 Acq: 21 Apr 2025 15:14

Tgt Ion:228 Resp: 4236733
 Ion Ratio Lower Upper
 228 100
 226 28.1 21.8 32.8
 229 20.6 15.8 23.8





#83

Chrysene

Concen: 29.149 ng m

RT: 21.439 min Scan# 31

Delta R.T. -0.012 min

Lab File: BM049985.D

Acq: 21 Apr 2025 15:14

Instrument :

BNA_M

ClientSampleId :

TP-11DL

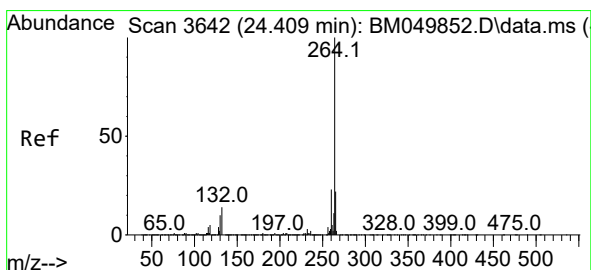
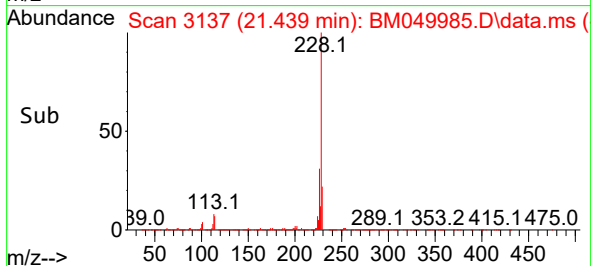
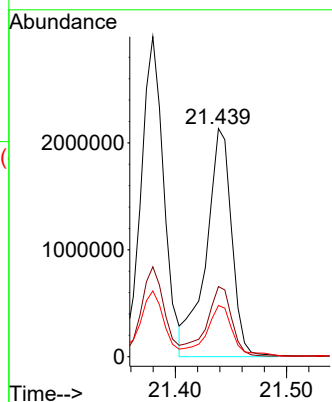
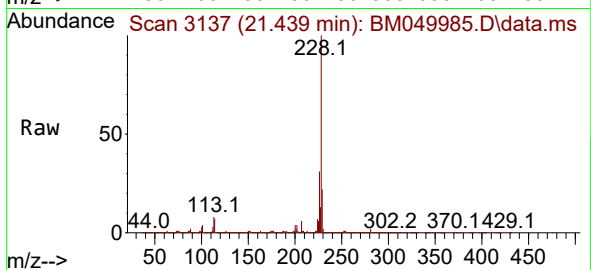
Tgt Ion:228 Resp: 3422564

Ion Ratio Lower Upper

228 100

226 30.7 24.1 36.1

229 22.4 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: BM049985.D

Acq: 21 Apr 2025 15:14

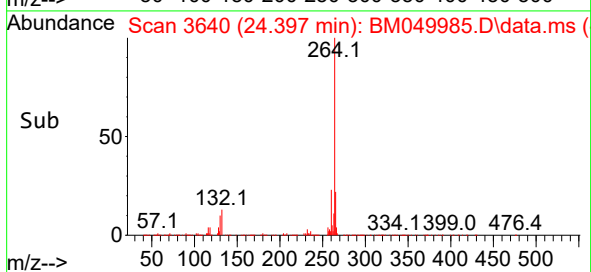
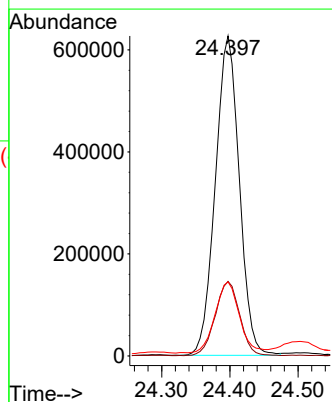
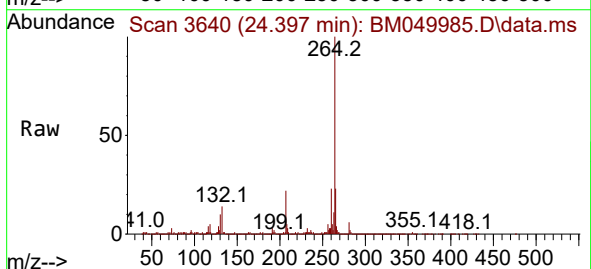
Tgt Ion:264 Resp: 1531054

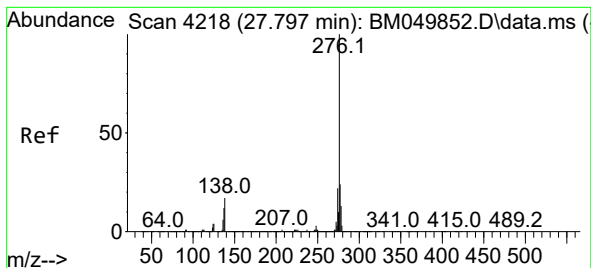
Ion Ratio Lower Upper

264 100

260 23.3 18.6 28.0

265 23.2 17.8 26.8





#87

Indeno(1,2,3-cd)pyrene

Concen: 15.179 ng

RT: 27.785 min Scan# 4218

Delta R.T. -0.012 min

Lab File: BM049985.D

Acq: 21 Apr 2025 15:14

Instrument :

BNA_M

ClientSampleId :

TP-11DL

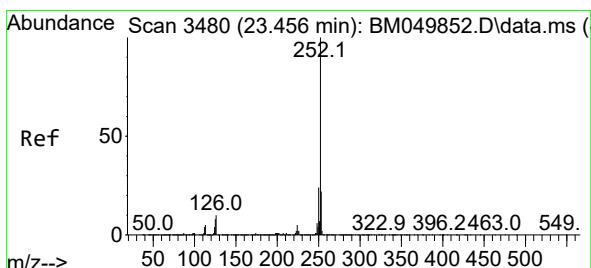
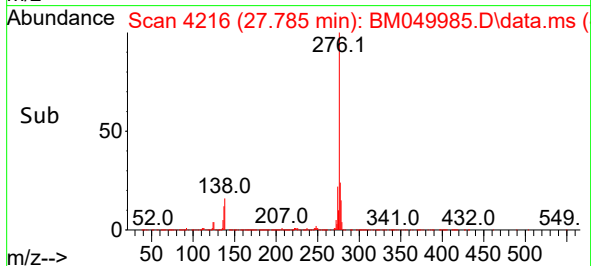
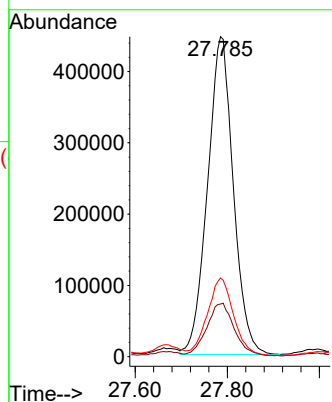
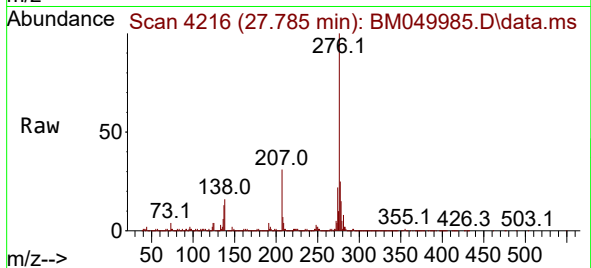
Tgt Ion:276 Resp: 1732318

Ion Ratio Lower Upper

276 100

138 17.5 16.8 25.2

277 25.0 20.1 30.1



#88

Benzo(b)fluoranthene

Concen: 40.205 ng

RT: 23.456 min Scan# 3480

Delta R.T. 0.000 min

Lab File: BM049985.D

Acq: 21 Apr 2025 15:14

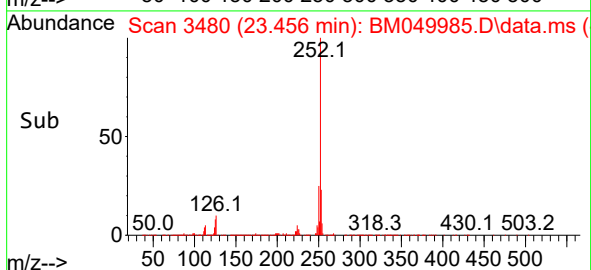
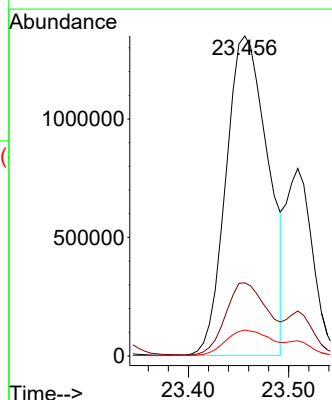
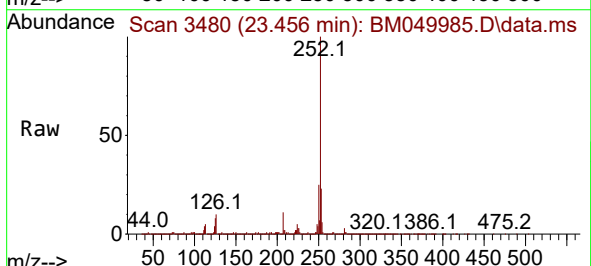
Tgt Ion:252 Resp: 3931339

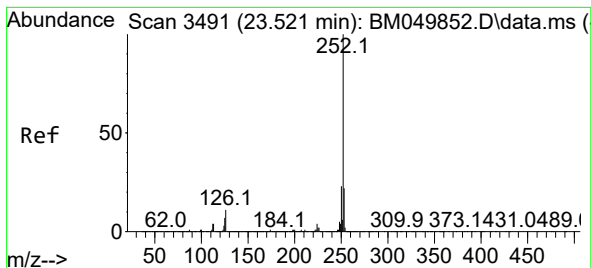
Ion Ratio Lower Upper

252 100

253 22.9 17.5 26.3

125 8.1 6.2 9.4





#89

Benzo(k)fluoranthene

Concen: 15.358 ng m

RT: 23.509 min Scan# 34

Delta R.T. -0.012 min

Lab File: BM049985.D

Acq: 21 Apr 2025 15:14

Instrument :

BNA_M

ClientSampleId :

TP-11DL

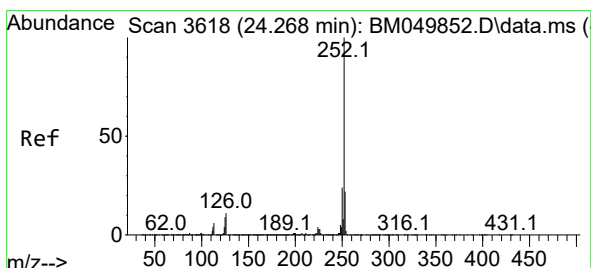
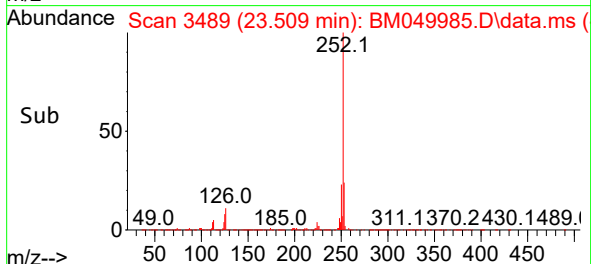
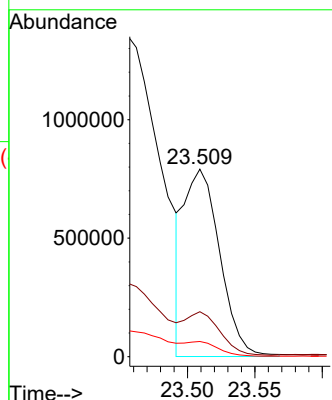
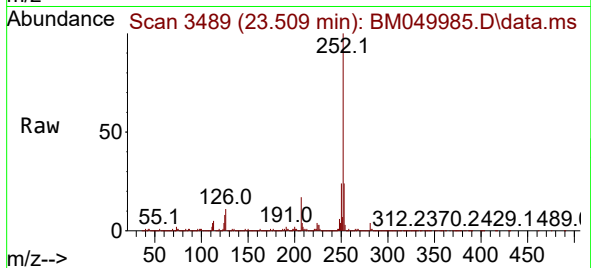
Tgt Ion:252 Resp: 1455285

Ion Ratio Lower Upper

252 100

253 24.0 17.4 26.2

125 8.1 5.8 8.8



#90

Benzo(a)pyrene

Concen: 33.191 ng

RT: 24.256 min Scan# 3616

Delta R.T. -0.012 min

Lab File: BM049985.D

Acq: 21 Apr 2025 15:14

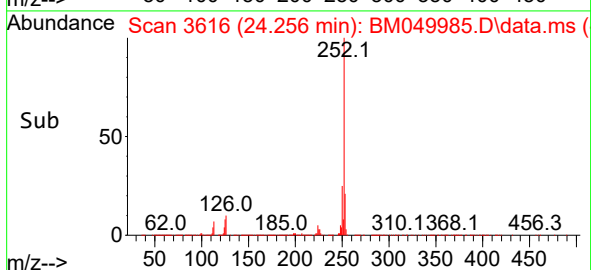
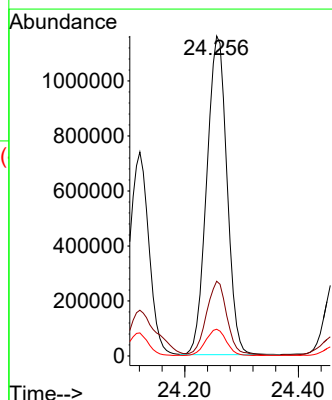
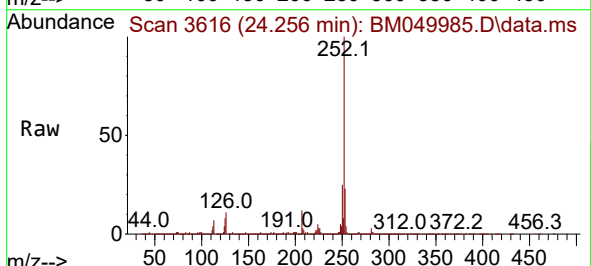
Tgt Ion:252 Resp: 2851886

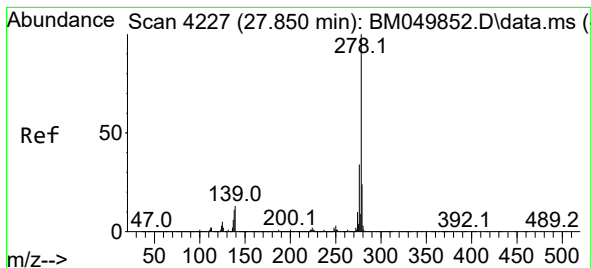
Ion Ratio Lower Upper

252 100

253 23.4 17.8 26.8

125 8.4 7.0 10.4





#91

Dibenzo(a,h)anthracene

Concen: 4.936 ng m

RT: 27.821 min Scan# 4396

Delta R.T. -0.029 min

Lab File: BM049985.D

Acq: 21 Apr 2025 15:14

Instrument :

BNA_M

ClientSampleId :

TP-11DL

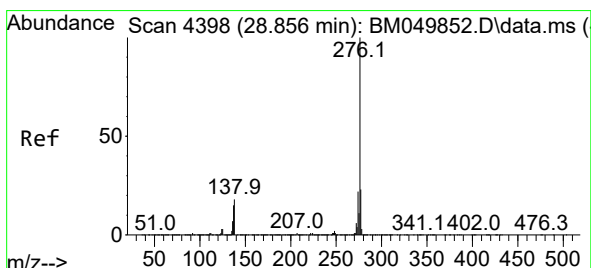
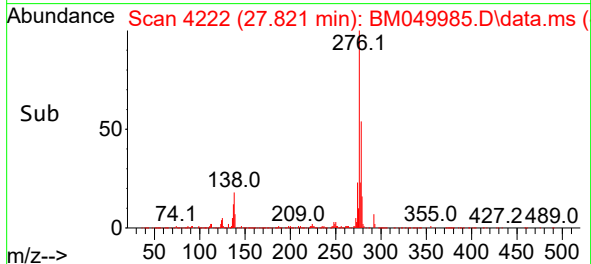
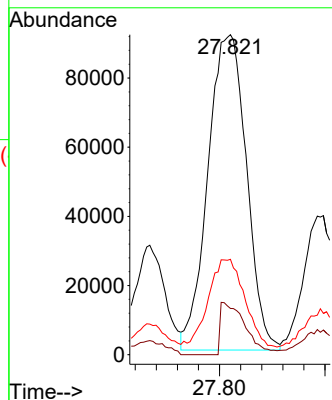
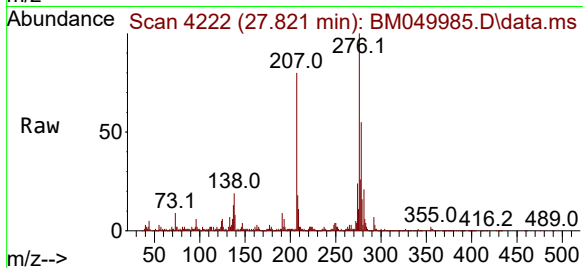
Tgt Ion:278 Resp: 463986

Ion Ratio Lower Upper

278 100

139 14.5 10.6 15.8

279 29.8 19.1 28.7#



#92

Benzo(g,h,i)perylene

Concen: 16.599 ng

RT: 28.844 min Scan# 4396

Delta R.T. -0.012 min

Lab File: BM049985.D

Acq: 21 Apr 2025 15:14

Tgt Ion:276 Resp: 1594524

Ion Ratio Lower Upper

276 100

277 24.0 18.7 28.1

138 17.9 14.6 21.8

