

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)

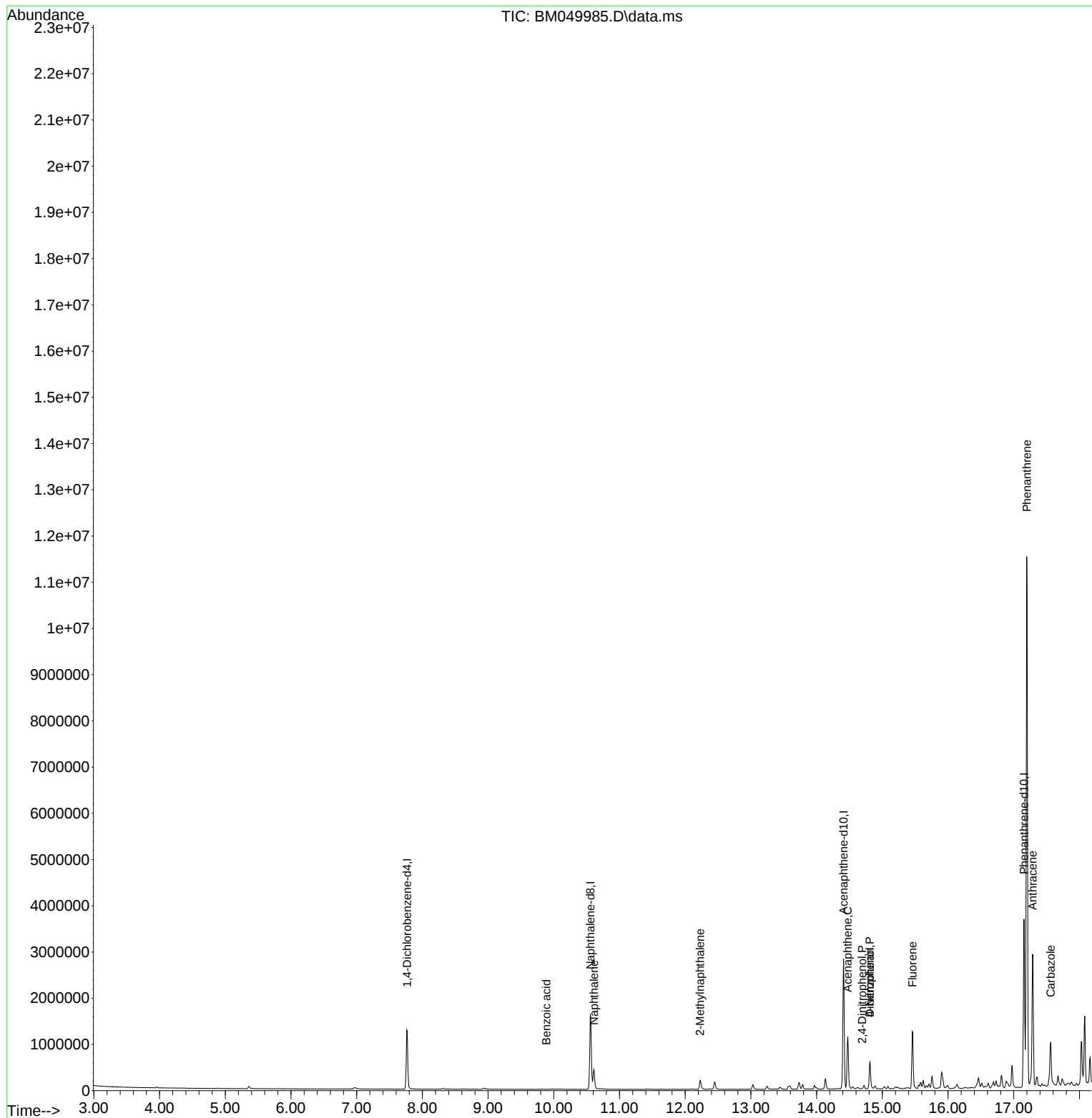
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.769	152	393230	20.000	ng	-0.01
21) Naphthalene-d8	10.557	136	1450828	20.000	ng	-0.02
39) Acenaphthene-d10	14.410	164	1018188	20.000	ng	-0.01
64) Phenanthrene-d10	17.157	188	2131610	20.000	ng	0.00
76) Chrysene-d12	21.397	240	1858308	20.000	ng	0.00
86) 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
32) Benzoic acid	9.886	122	70	8.541	ng	# 1
37) 2-Methylnaphthalene	12.227	142	118760	2.261	ng	100
52) Acenaphthene	14.474	154	421863	7.653	ng	99
54) 2,4-Dinitrophenol	14.692	184	59	7.230	ng	# 1
55) Dibenzofuran	14.810	168	412737	4.479	ng	99
56) 4-Nitrophenol	14.810	139	133728	10.317	ng	# 13
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	3265854	27.815	ng	97
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	1232225	13.004	ng	96
90) Benzo(a)pyrene	24.256	252	2851886	33.191	ng	98
92) Benzo(g,h,i)perylene	28.844	276	1594524	16.599	ng	99

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

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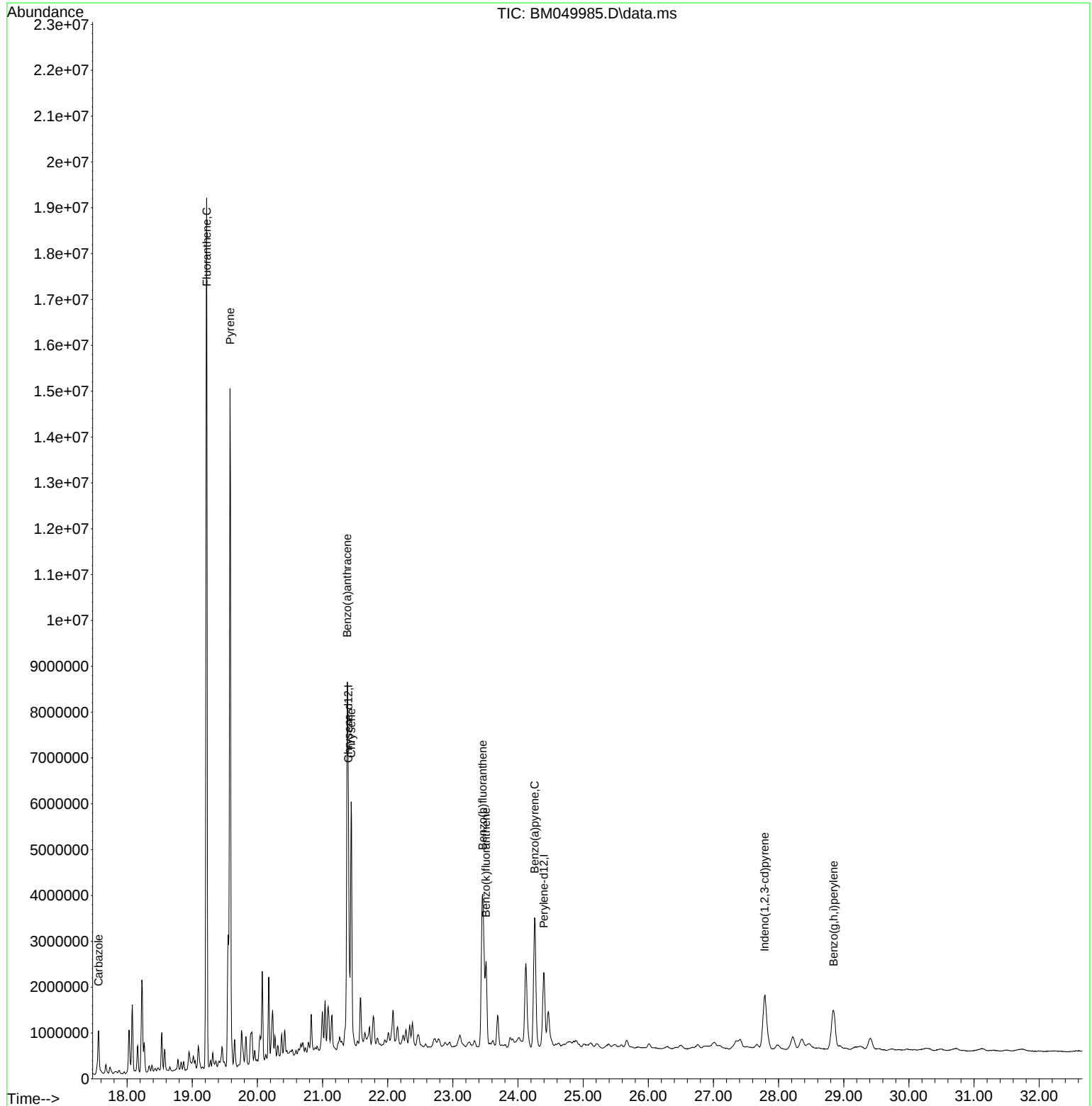
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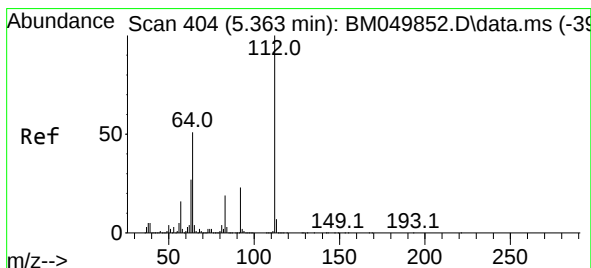
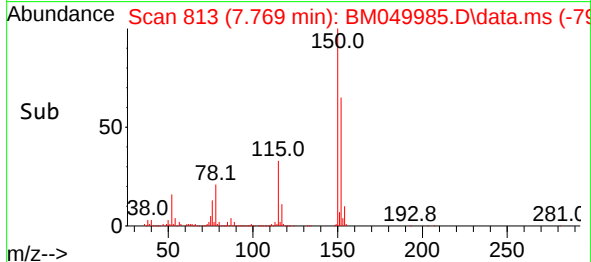
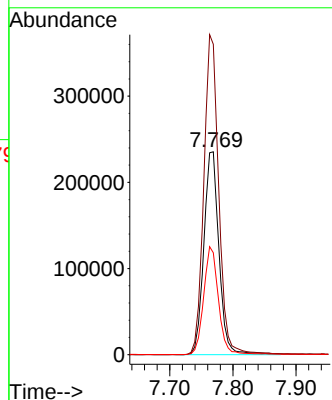
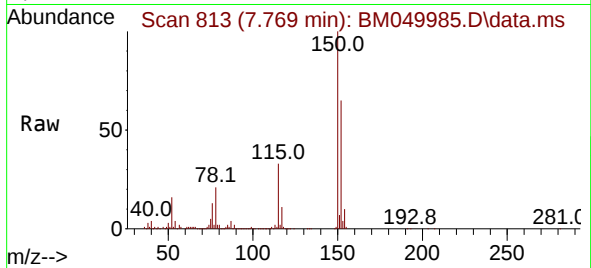




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.769 min Scan# 815
Delta R.T. -0.012 min
Lab File: BM049985.D
Acq: 21 Apr 2025 15:14

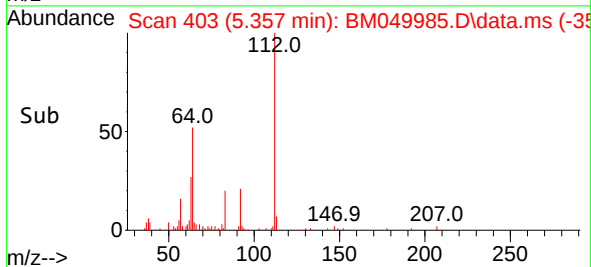
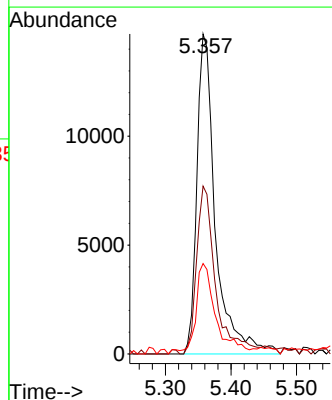
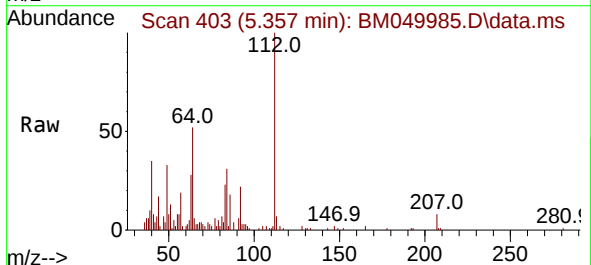
Instrument :
BNA_M
ClientSampleId :
TP-11DL

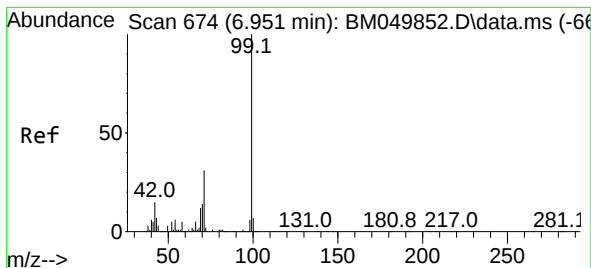
Tgt Ion:152 Resp: 393230
Ion Ratio Lower Upper
152 100
150 153.0 124.3 186.5
115 50.2 41.1 61.7



#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

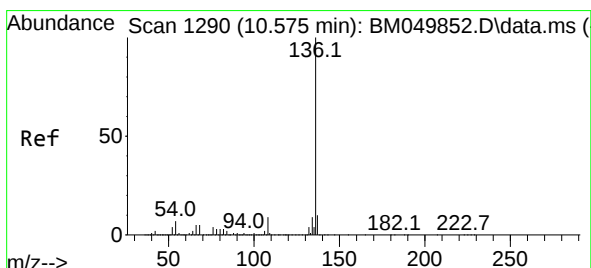
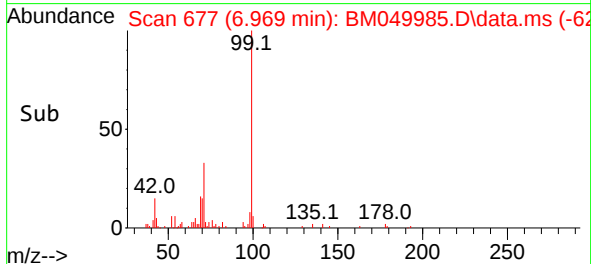
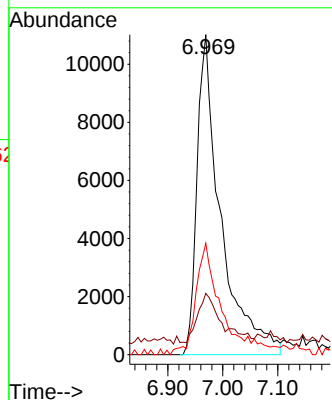
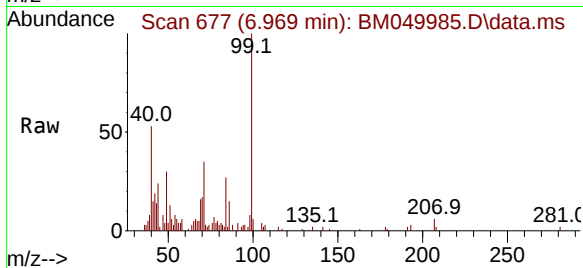
Tgt Ion: 99 Resp: 33040

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

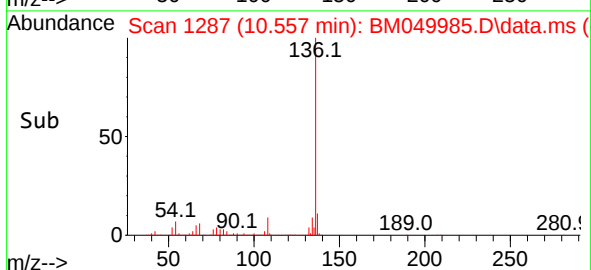
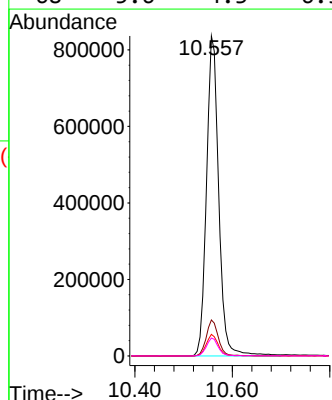
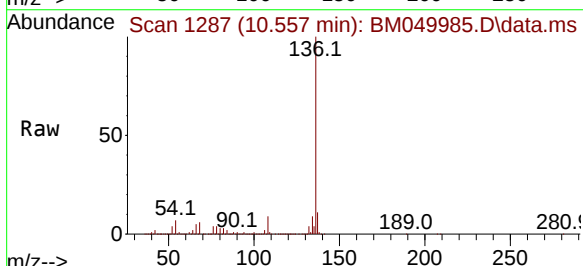
Ion Ratio Lower Upper

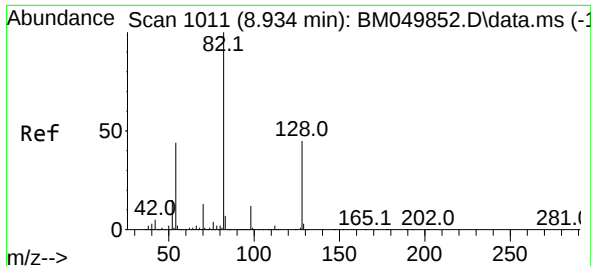
136 100

137 11.3 8.4 12.6

54 6.7 5.3 7.9

68 5.6 4.3 6.5

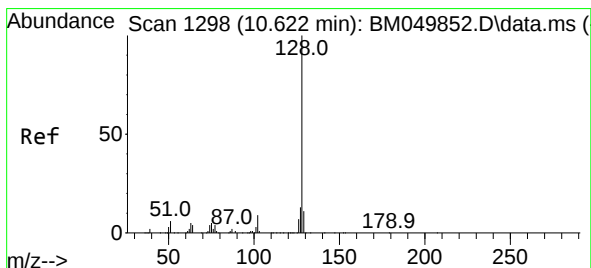
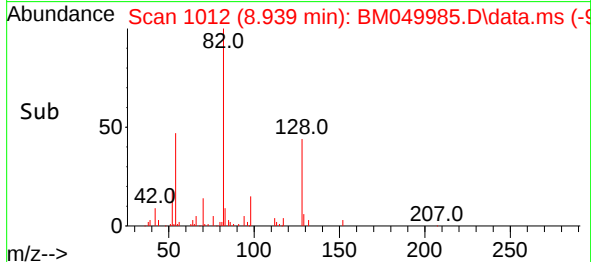
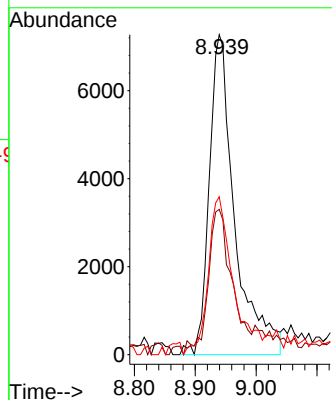
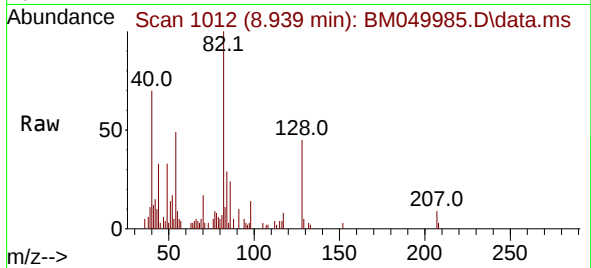




#23
Nitrobenzene-d5
Concen: 0.814 ng
RT: 8.939 min Scan# 1011
Delta R.T. 0.006 min
Lab File: BM049985.D
Acq: 21 Apr 2025 15:14

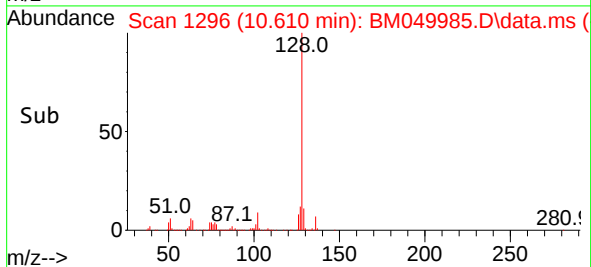
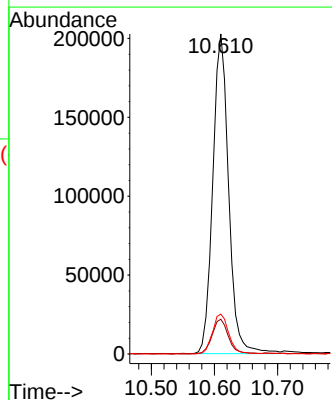
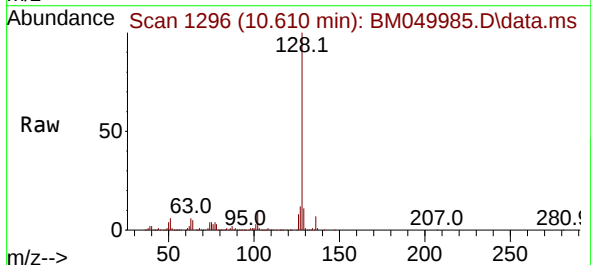
Instrument :
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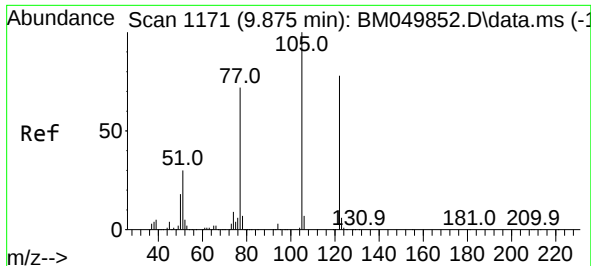
Tgt Ion: 82 Resp: 21216
Ion Ratio Lower Upper
82 100
128 45.4 36.2 54.2
54 49.4 35.0 52.6



#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

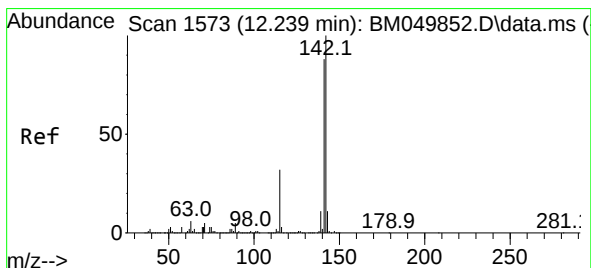
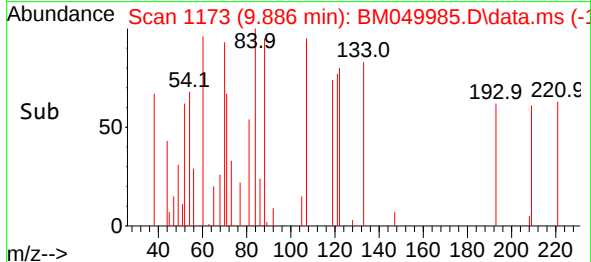
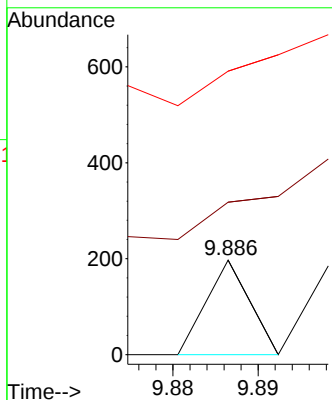
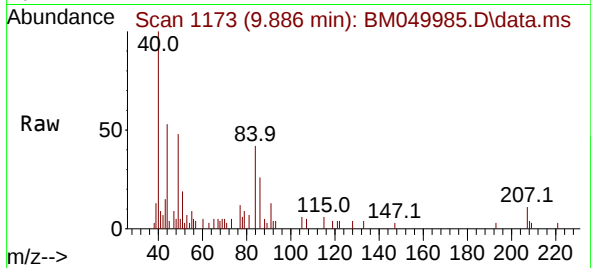




#32
Benzoic acid
Concen: 8.541 ng
RT: 9.886 min Scan# 1171
Delta R.T. 0.011 min
Lab File: BM049985.D
Acq: 21 Apr 2025 15:14

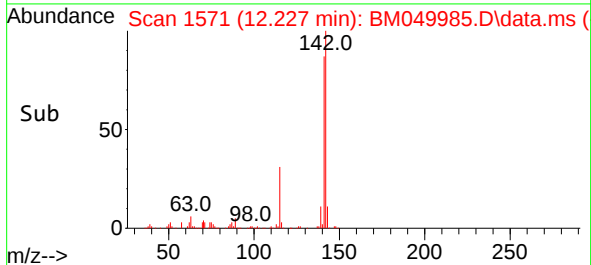
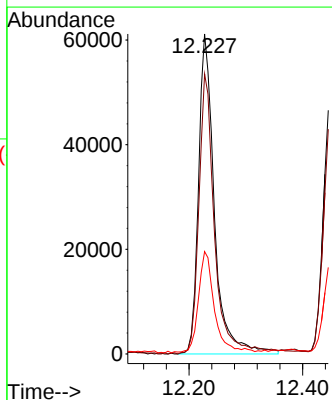
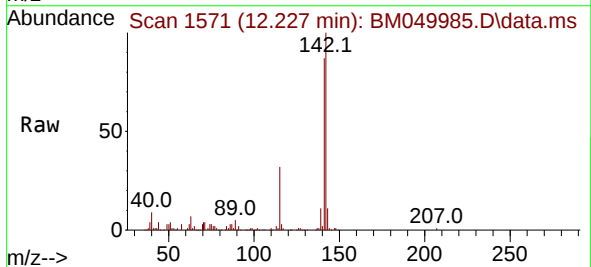
Instrument :
BNA_M
ClientSampleId :
TP-11DL

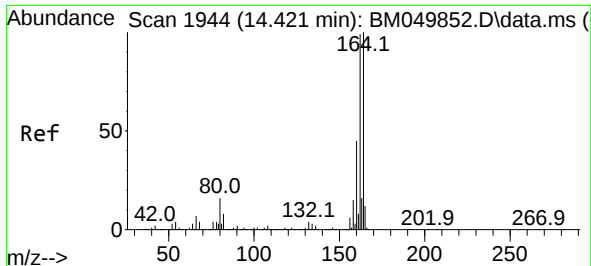
Tgt Ion:122 Resp: 70
Ion Ratio Lower Upper
122 100
105 161.4 103.8 143.8#
77 300.0 70.7 110.7#



#37
2-Methylnaphthalene
Concen: 2.261 ng
RT: 12.227 min Scan# 1571
Delta R.T. -0.012 min
Lab File: BM049985.D
Acq: 21 Apr 2025 15:14

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

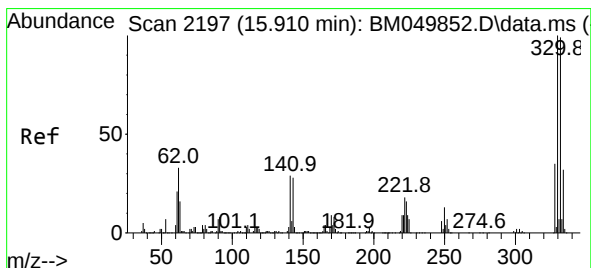
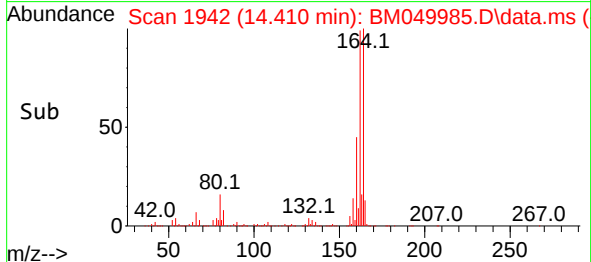
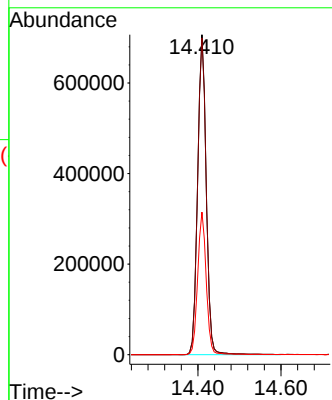
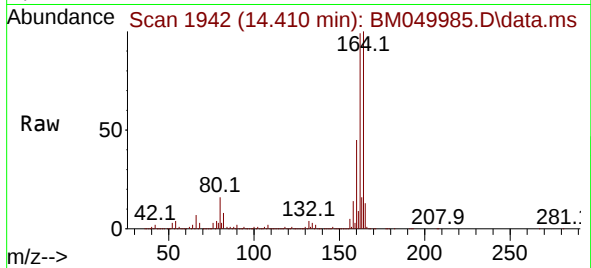




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.410 min Scan# 1942
Delta R.T. -0.012 min
Lab File: BM049985.D
Acq: 21 Apr 2025 15:14

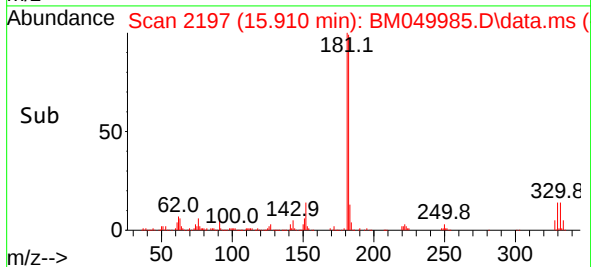
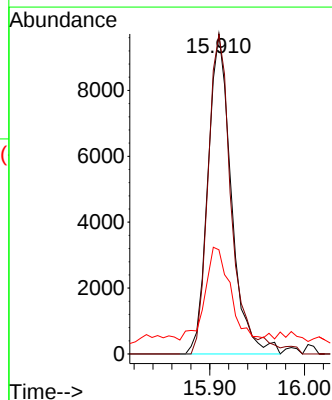
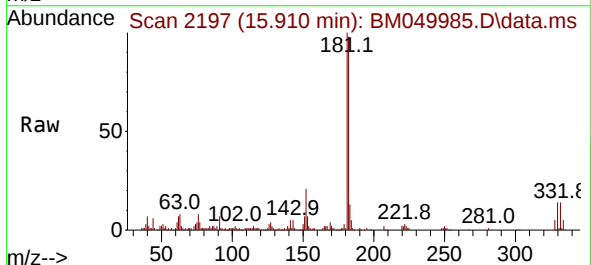
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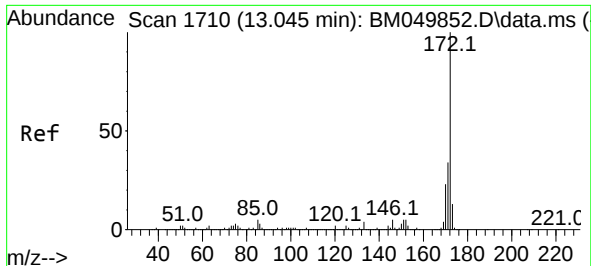
Tgt Ion:164 Resp: 1018188
Ion Ratio Lower Upper
164 100
162 99.0 79.4 119.0
160 44.5 36.2 54.2



#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

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

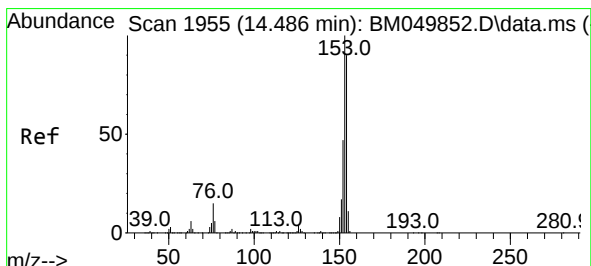
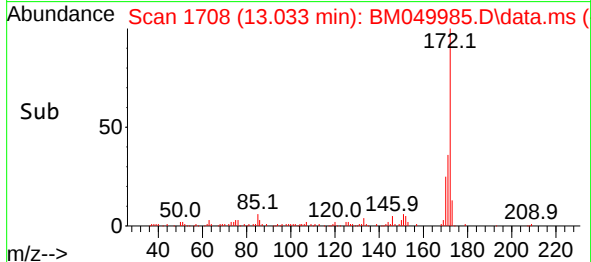
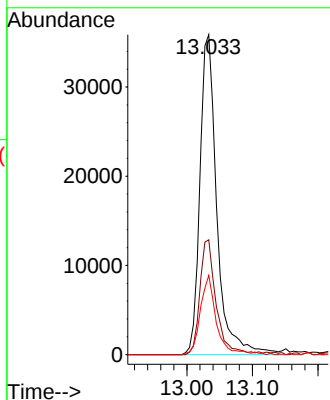
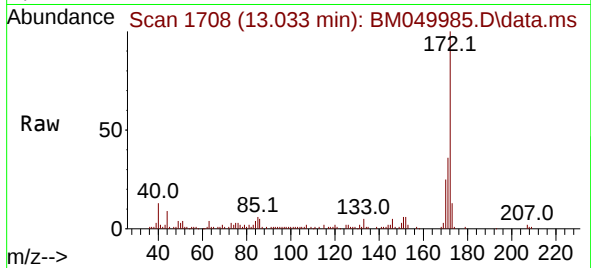




#45
2-Fluorobiphenyl
Concen: 0.859 ng
RT: 13.033 min Scan# 1710
Delta R.T. -0.012 min
Lab File: BM049985.D
Acq: 21 Apr 2025 15:14

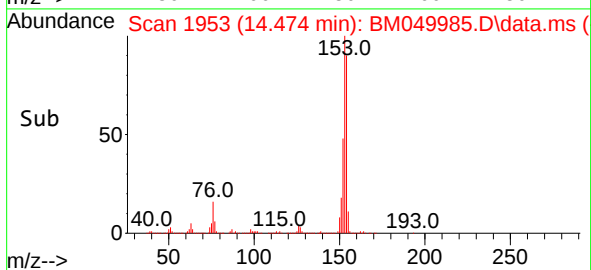
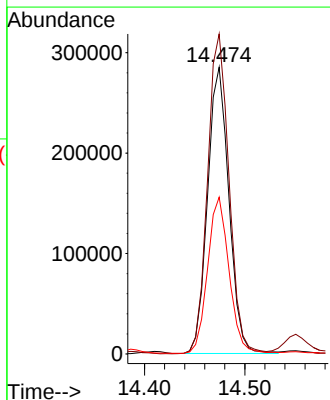
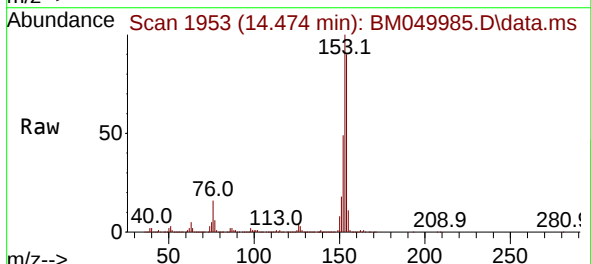
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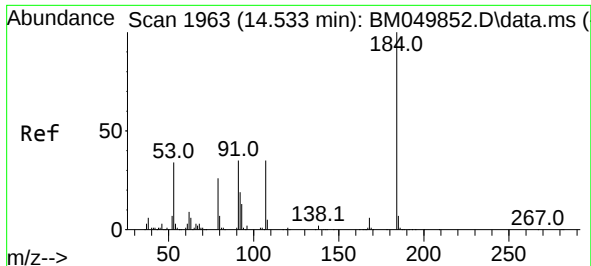
Tgt Ion:172	Resp:	64505
Ion Ratio	Lower	Upper
172	100	
171	35.9	27.4 41.2
170	24.7	18.6 28.0



#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

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

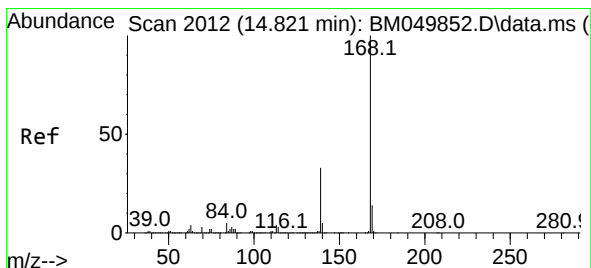
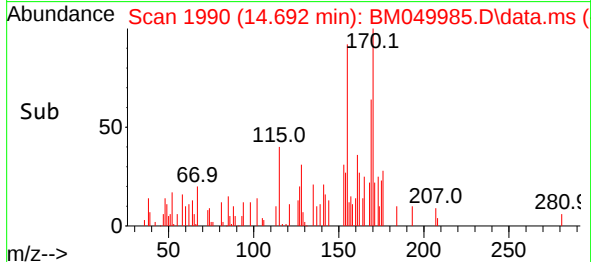
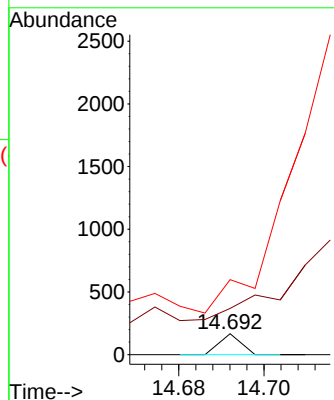
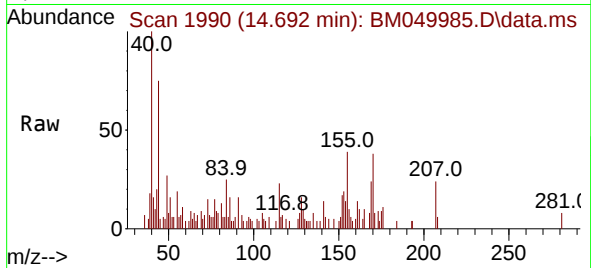




#54
2,4-Dinitrophenol
Concen: 7.230 ng
RT: 14.692 min Scan# 1963
Delta R.T. 0.159 min
Lab File: BM049985.D
Acq: 21 Apr 2025 15:14

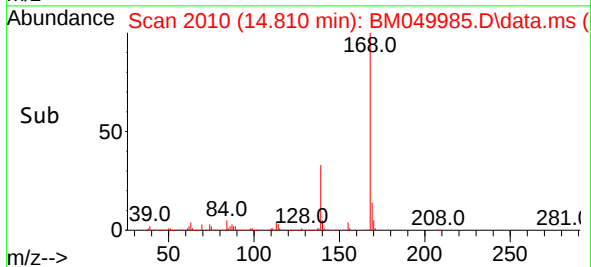
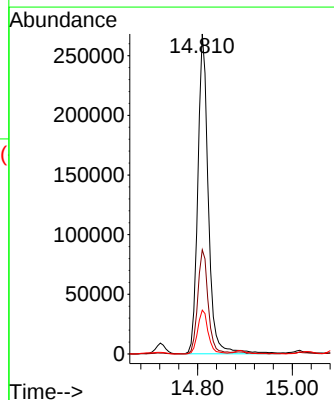
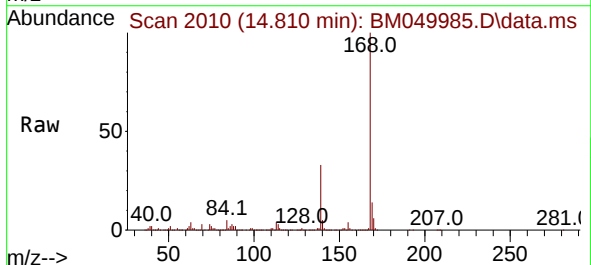
Instrument :
BNA_M
ClientSampleId :
TP-11DL

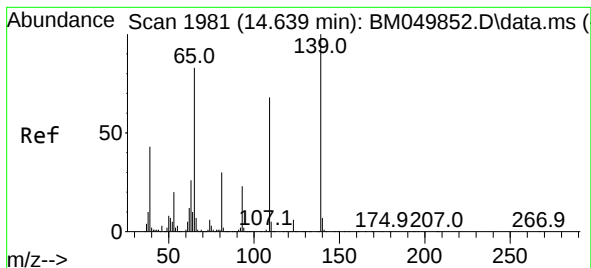
Tgt Ion:184 Resp: 59
Ion Ratio Lower Upper
184 100
63 220.4 38.4 57.6#
154 358.1 48.1 72.1#



#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

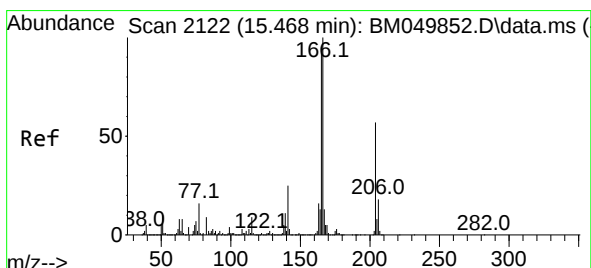
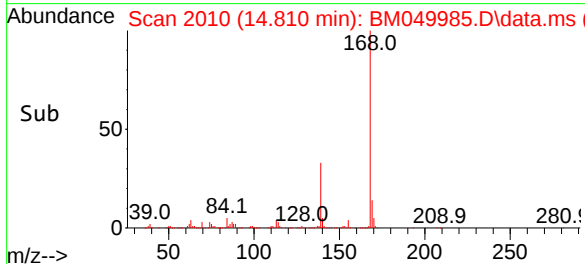
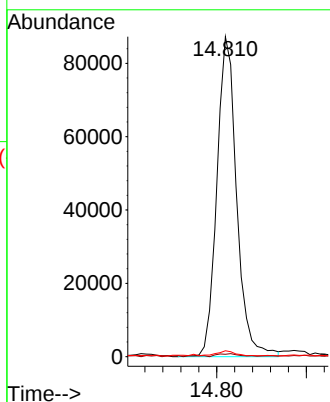
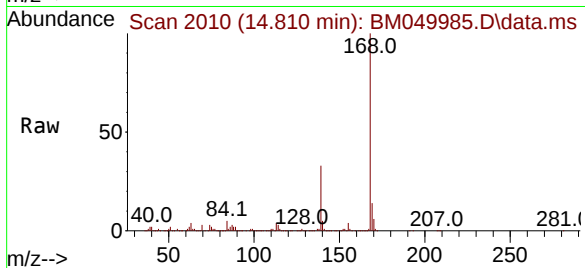




#56
4-Nitrophenol
Concen: 10.317 ng
RT: 14.810 min Scan# 20
Delta R.T. 0.171 min
Lab File: BM049985.D
Acq: 21 Apr 2025 15:14

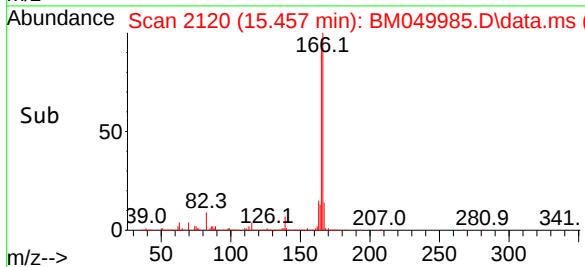
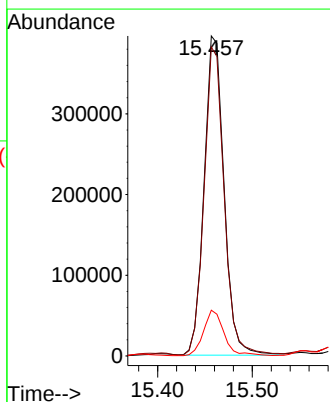
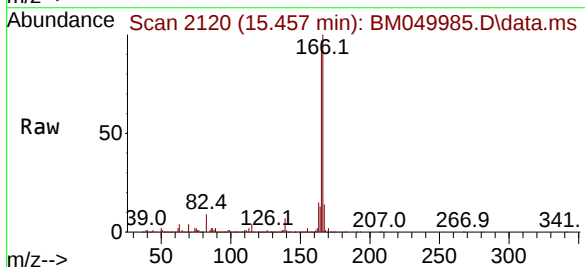
Instrument :
BNA_M
ClientSampleId :
TP-11DL

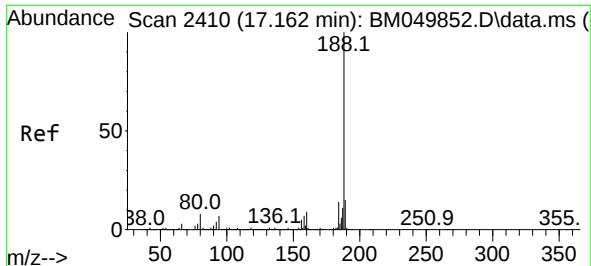
Tgt Ion:139 Resp: 133728
Ion Ratio Lower Upper
139 100
109 0.7 47.9 87.9#
65 1.8 62.7 102.7#



#58
Fluorene
Concen: 7.925 ng
RT: 15.457 min Scan# 2120
Delta R.T. -0.012 min
Lab File: BM049985.D
Acq: 21 Apr 2025 15:14

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

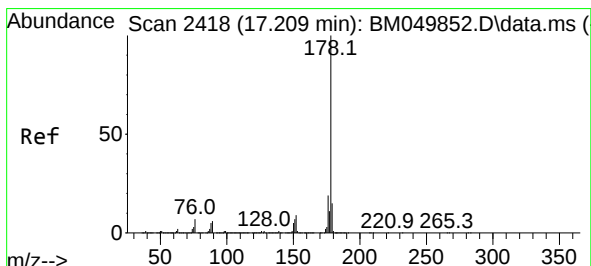
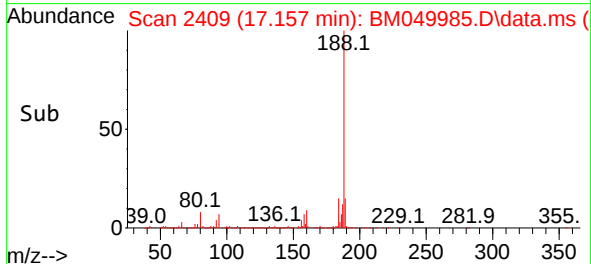
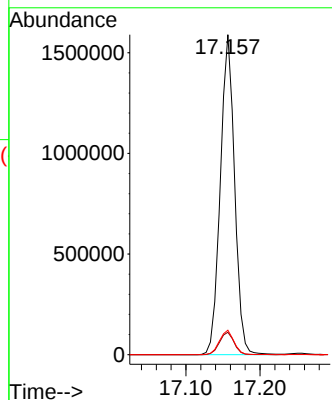
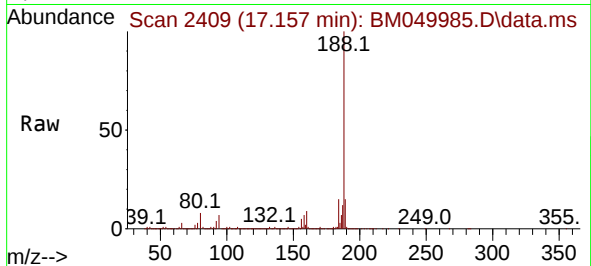




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.157 min Scan# 2410
Delta R.T. -0.006 min
Lab File: BM049985.D
Acq: 21 Apr 2025 15:14

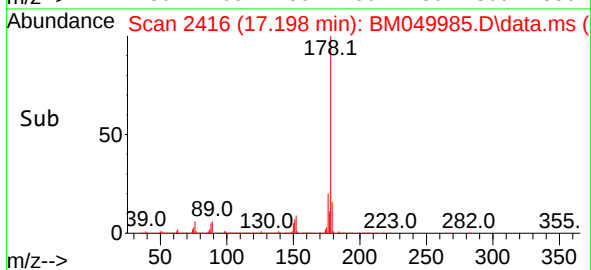
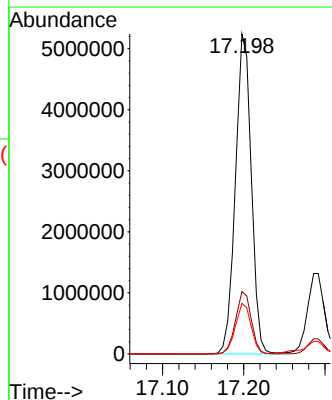
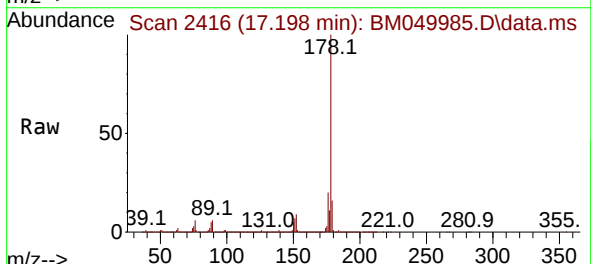
Instrument :
BNA_M
ClientSampleId :
TP-11DL

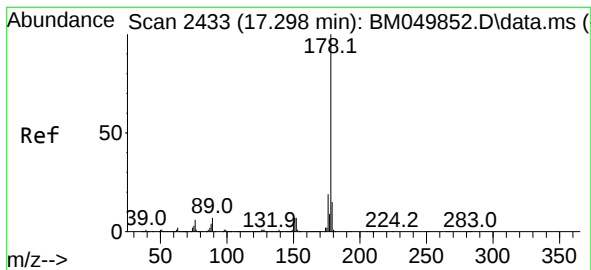
Tgt Ion:188 Resp: 2131610
Ion Ratio Lower Upper
188 100
94 7.0 5.8 8.6
80 7.6 6.4 9.6



#71
Phenanthrene
Concen: 60.774 ng
RT: 17.198 min Scan# 2416
Delta R.T. -0.012 min
Lab File: BM049985.D
Acq: 21 Apr 2025 15:14

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

Instrument :

BNA_M

ClientSampleId :

TP-11DL

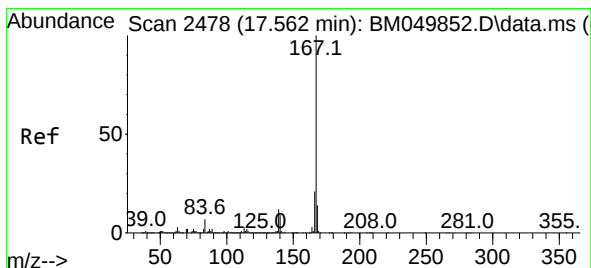
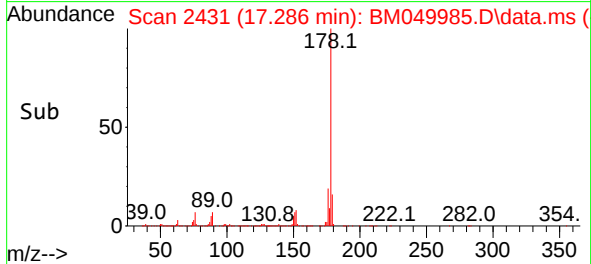
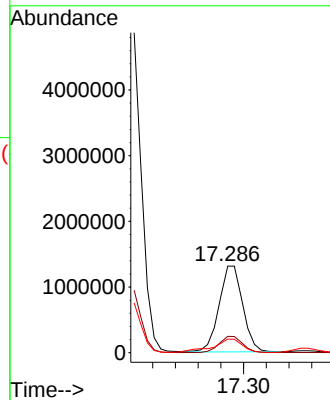
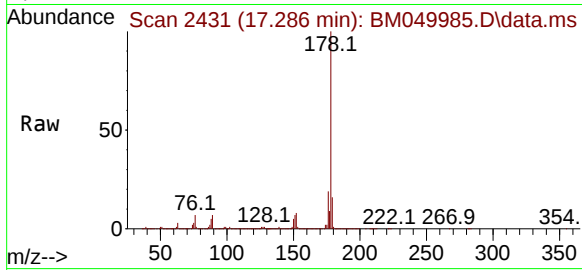
Tgt Ion:178 Resp: 1898415

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# 2478

Delta R.T. 0.000 min

Lab File: BM049985.D

Acq: 21 Apr 2025 15:14

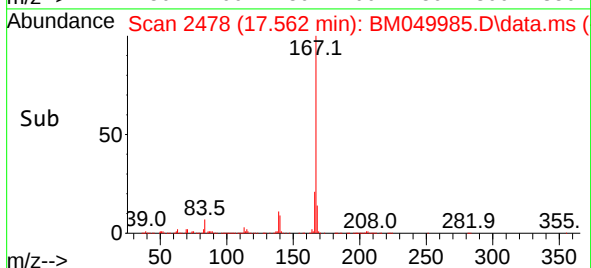
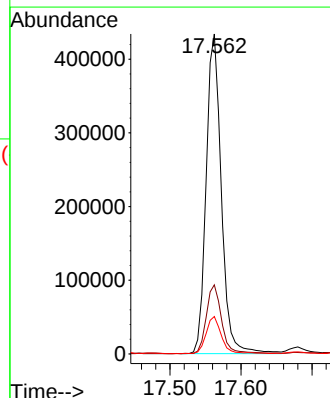
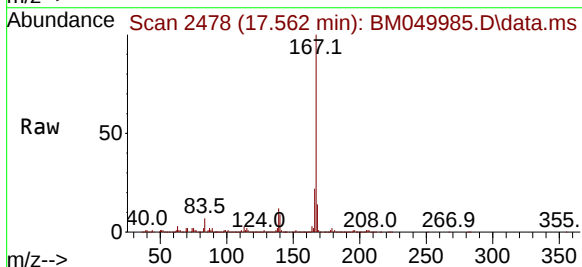
Tgt Ion:167 Resp: 646014

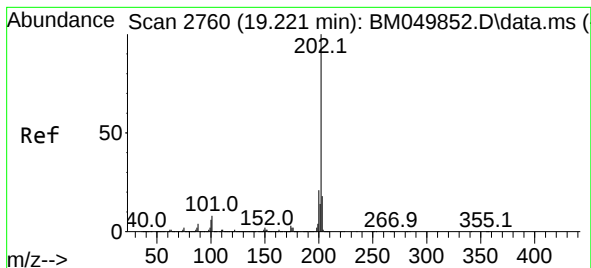
Ion Ratio Lower Upper

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# 21

Delta R.T. 0.000 min

Lab File: BM049985.D

Acq: 21 Apr 2025 15:14

Instrument :

BNA_M

ClientSampleId :

TP-11DL

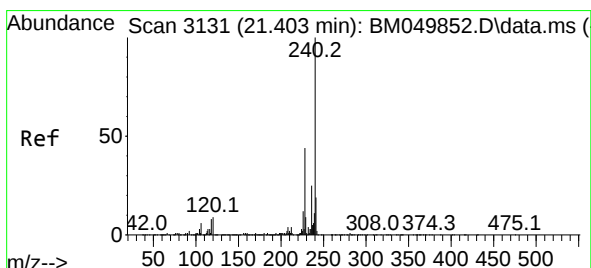
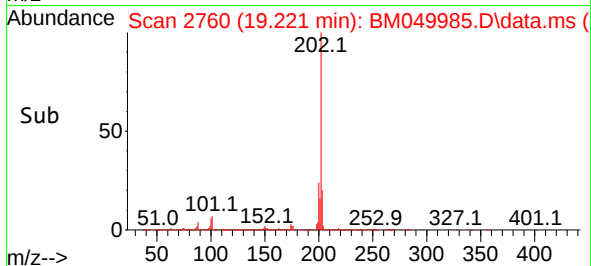
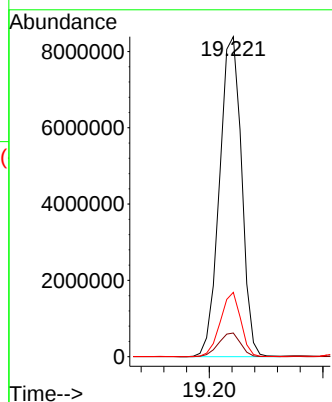
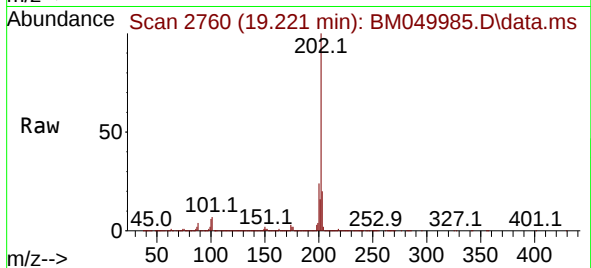
Tgt Ion:202 Resp:11314562

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# 3130

Delta R.T. -0.006 min

Lab File: BM049985.D

Acq: 21 Apr 2025 15:14

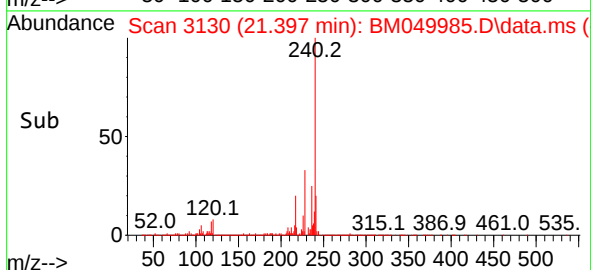
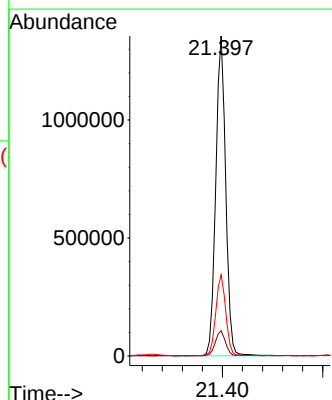
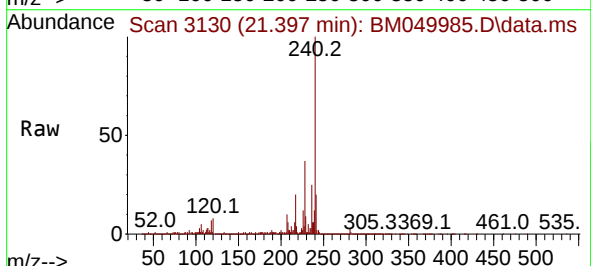
Tgt Ion:240 Resp: 1858308

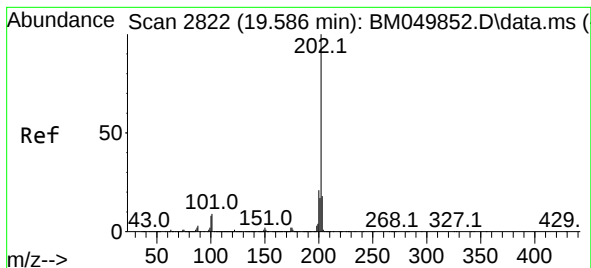
Ion Ratio Lower Upper

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# 2822

Delta R.T. -0.006 min

Lab File: BM049985.D

Acq: 21 Apr 2025 15:14

Instrument :

BNA_M

ClientSampleId :

TP-11DL

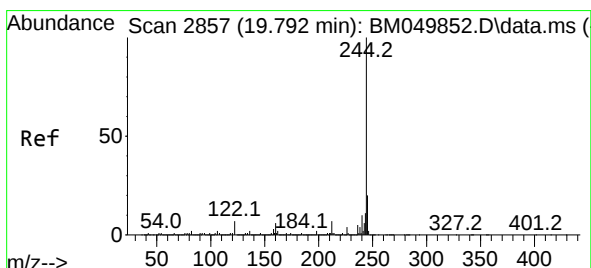
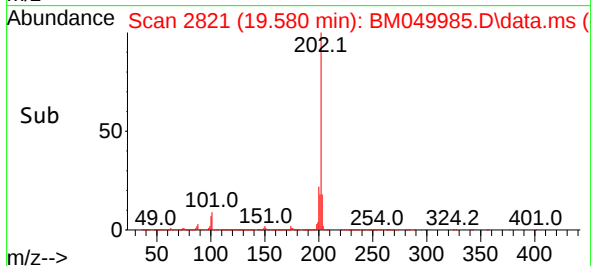
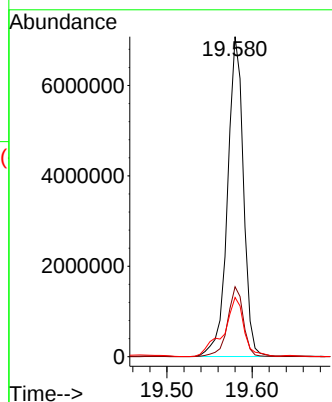
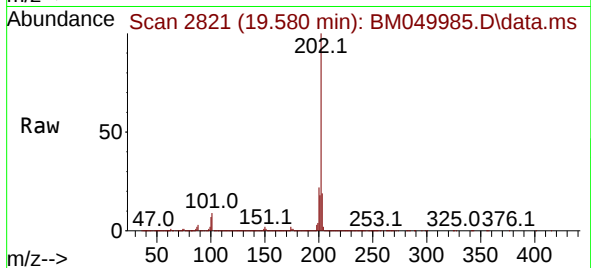
Tgt Ion:202 Resp: 9189704

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# 2855

Delta R.T. -0.012 min

Lab File: BM049985.D

Acq: 21 Apr 2025 15:14

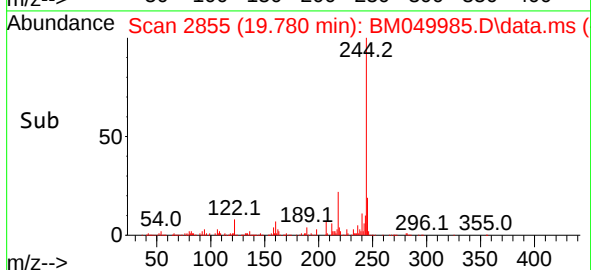
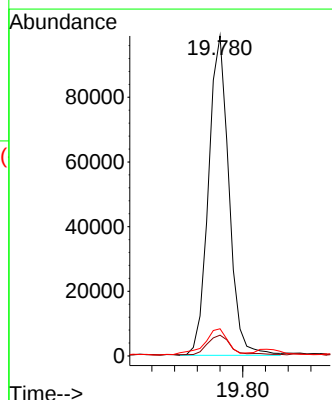
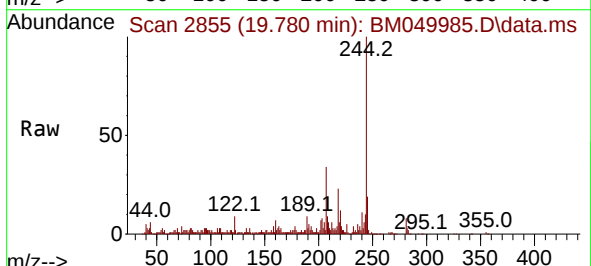
Tgt Ion:244 Resp: 123405

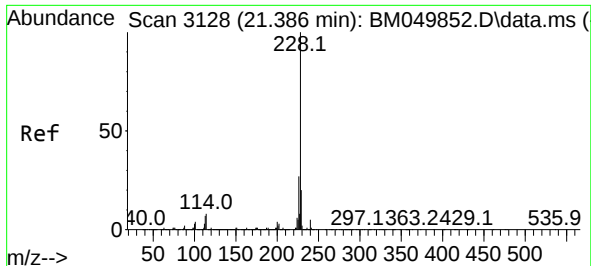
Ion Ratio Lower Upper

244 100

212 6.5 5.5 8.3

122 8.5 5.4 8.0#

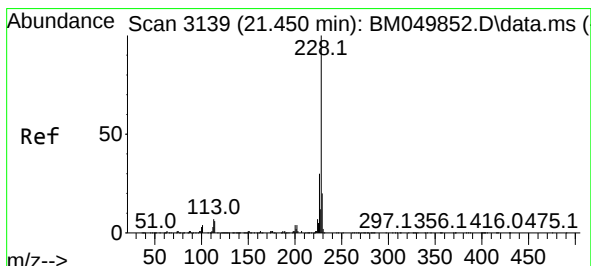
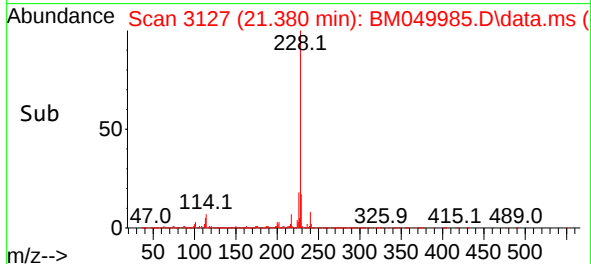
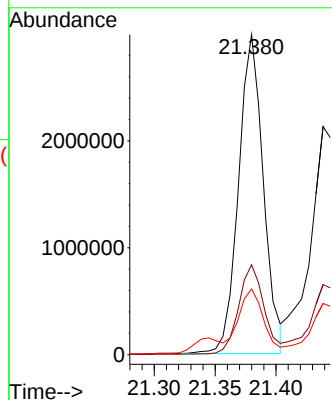
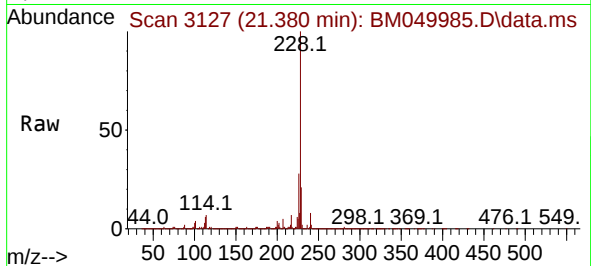




#81
Benzo(a)anthracene
Concen: 34.305 ng
RT: 21.380 min Scan# 31
Delta R.T. -0.006 min
Lab File: BM049985.D
Acq: 21 Apr 2025 15:14

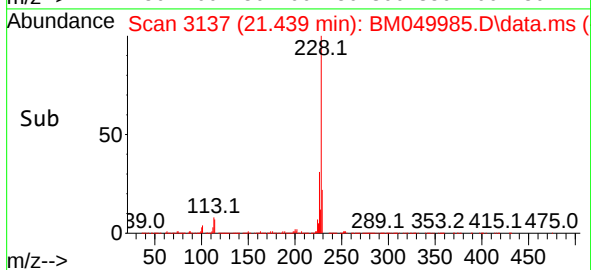
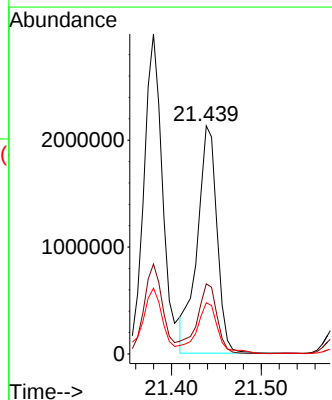
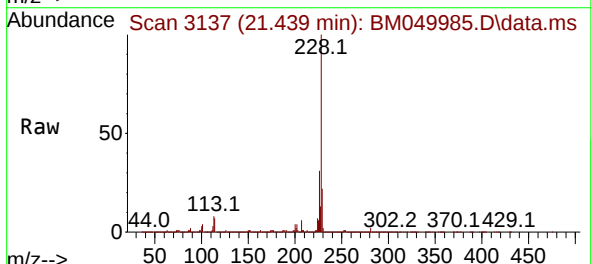
Instrument :
BNA_M
ClientSampleId :
TP-11DL

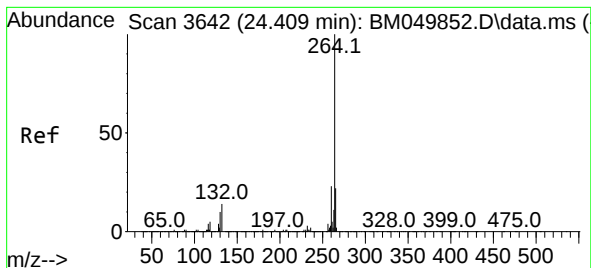
Tgt Ion:228 Resp: 4236733
Ion Ratio Lower Upper
228 100
226 28.1 21.8 32.8
229 20.6 15.8 23.8



#83
Chrysene
Concen: 27.815 ng
RT: 21.439 min Scan# 3137
Delta R.T. -0.012 min
Lab File: BM049985.D
Acq: 21 Apr 2025 15:14

Tgt Ion:228 Resp: 3265854
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# 3

Delta R.T. -0.012 min

Lab File: BM049985.D

Acq: 21 Apr 2025 15:14

Instrument :

BNA_M

ClientSampleId :

TP-11DL

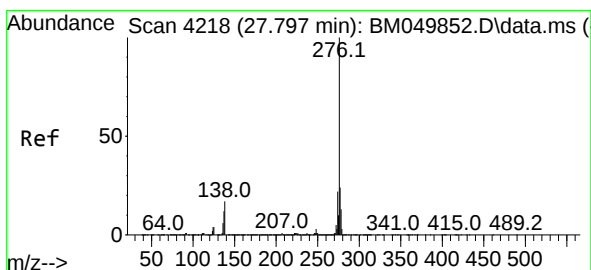
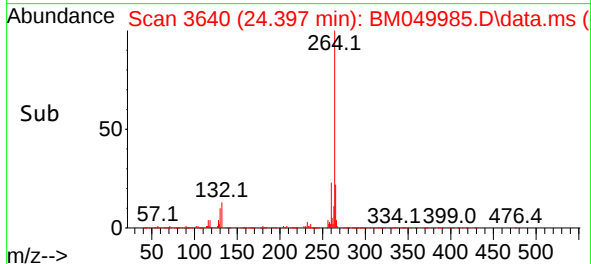
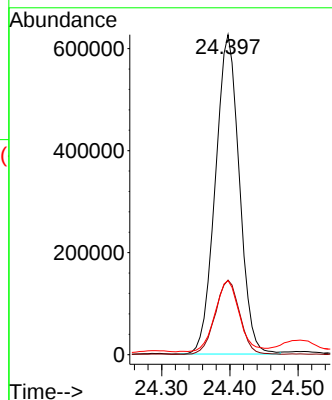
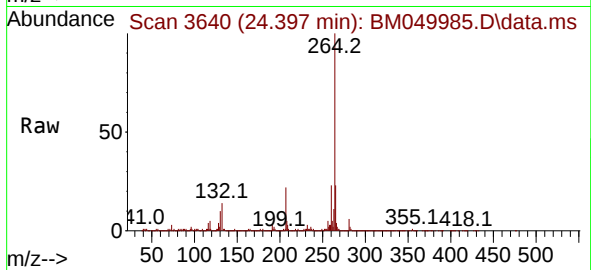
Tgt Ion:264 Resp: 1531054

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# 4216

Delta R.T. -0.012 min

Lab File: BM049985.D

Acq: 21 Apr 2025 15:14

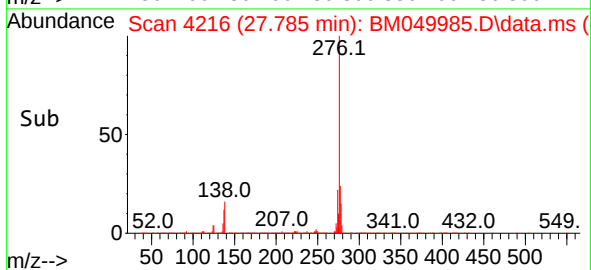
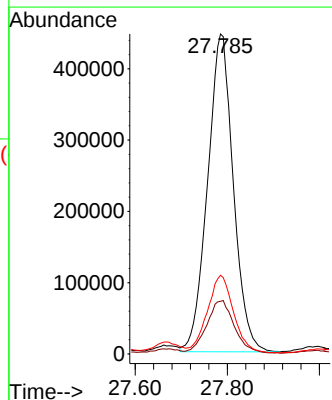
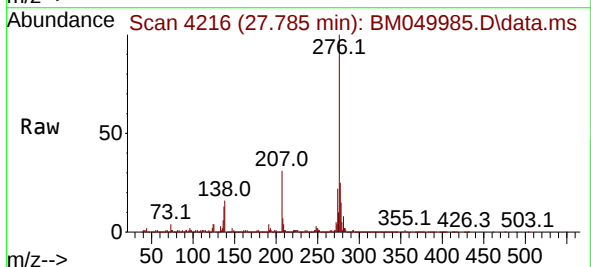
Tgt Ion:276 Resp: 1732318

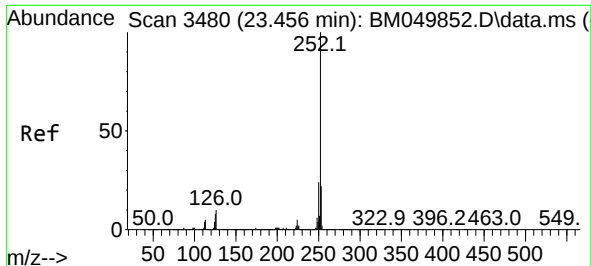
Ion Ratio Lower Upper

276 100

138 17.5 16.8 25.2

277 25.0 20.1 30.1

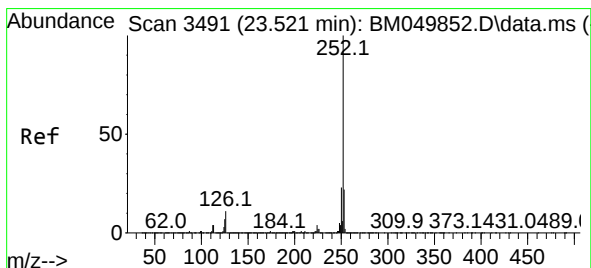
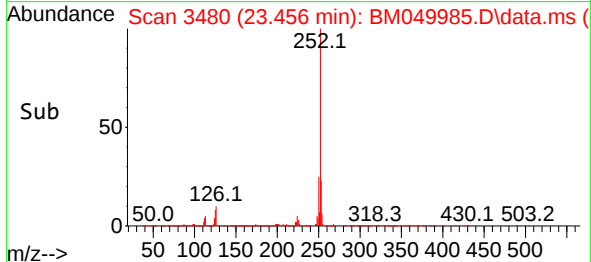
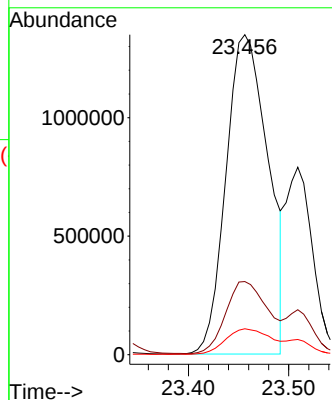
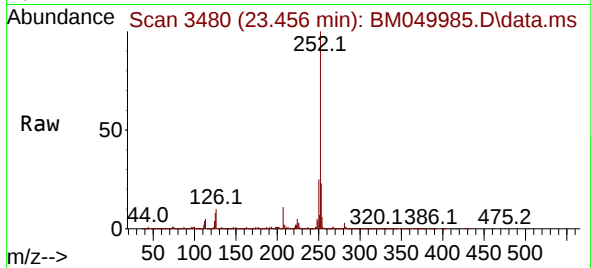




#88
Benzo(b)fluoranthene
Concen: 40.205 ng
RT: 23.456 min Scan# 3480
Delta R.T. 0.000 min
Lab File: BM049985.D
Acq: 21 Apr 2025 15:14

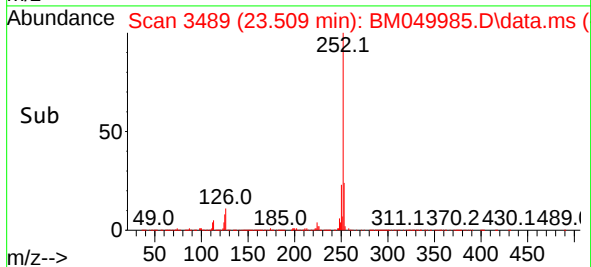
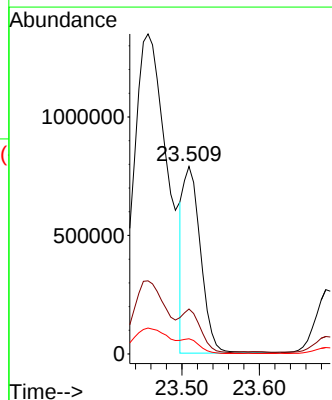
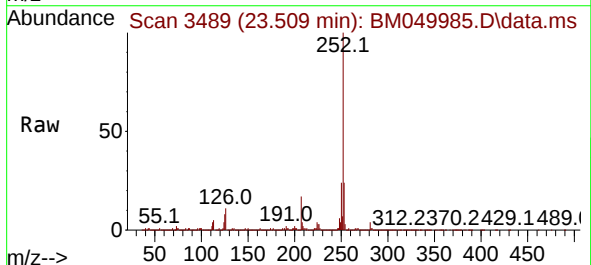
Instrument :
BNA_M
ClientSampleId :
TP-11DL

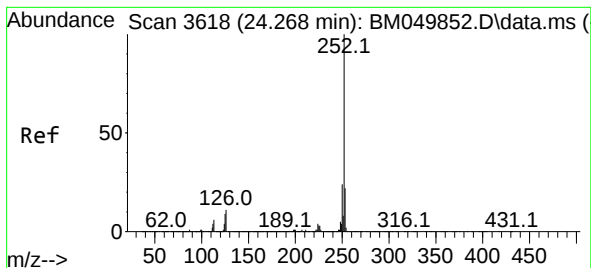
Tgt Ion:252 Resp: 3931339
Ion Ratio Lower Upper
252 100
253 22.9 17.5 26.3
125 8.1 6.2 9.4



#89
Benzo(k)fluoranthene
Concen: 13.004 ng
RT: 23.509 min Scan# 3489
Delta R.T. -0.012 min
Lab File: BM049985.D
Acq: 21 Apr 2025 15:14

Tgt Ion:252 Resp: 1232225
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# 3

Delta R.T. -0.012 min

Lab File: BM049985.D

Acq: 21 Apr 2025 15:14

Instrument :

BNA_M

ClientSampleId :

TP-11DL

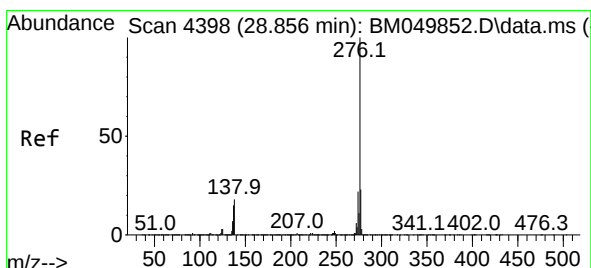
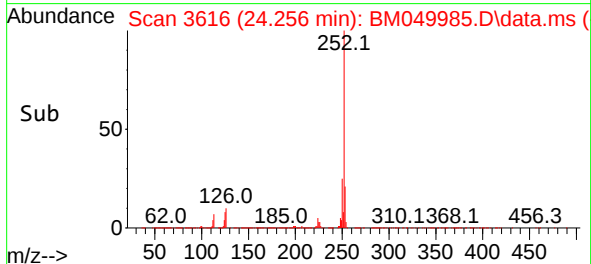
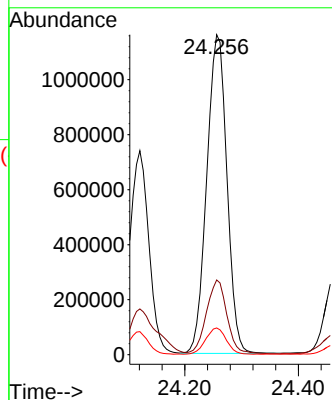
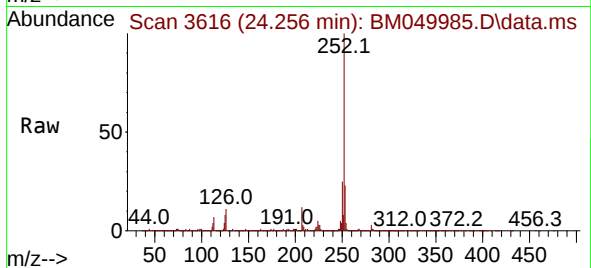
Tgt Ion:252 Resp: 2851886

Ion Ratio Lower Upper

252 100

253 23.4 17.8 26.8

125 8.4 7.0 10.4



#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

