

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP042825\
 Data File : BP024451.D
 Acq On : 29 Apr 2025 00:29
 Operator : RC/JU
 Sample : Q1891-05 5X
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 MH-D

Quant Time: Apr 29 01:27:02 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP041425.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Apr 18 12:04:48 2025
 Response via : Initial Calibration

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

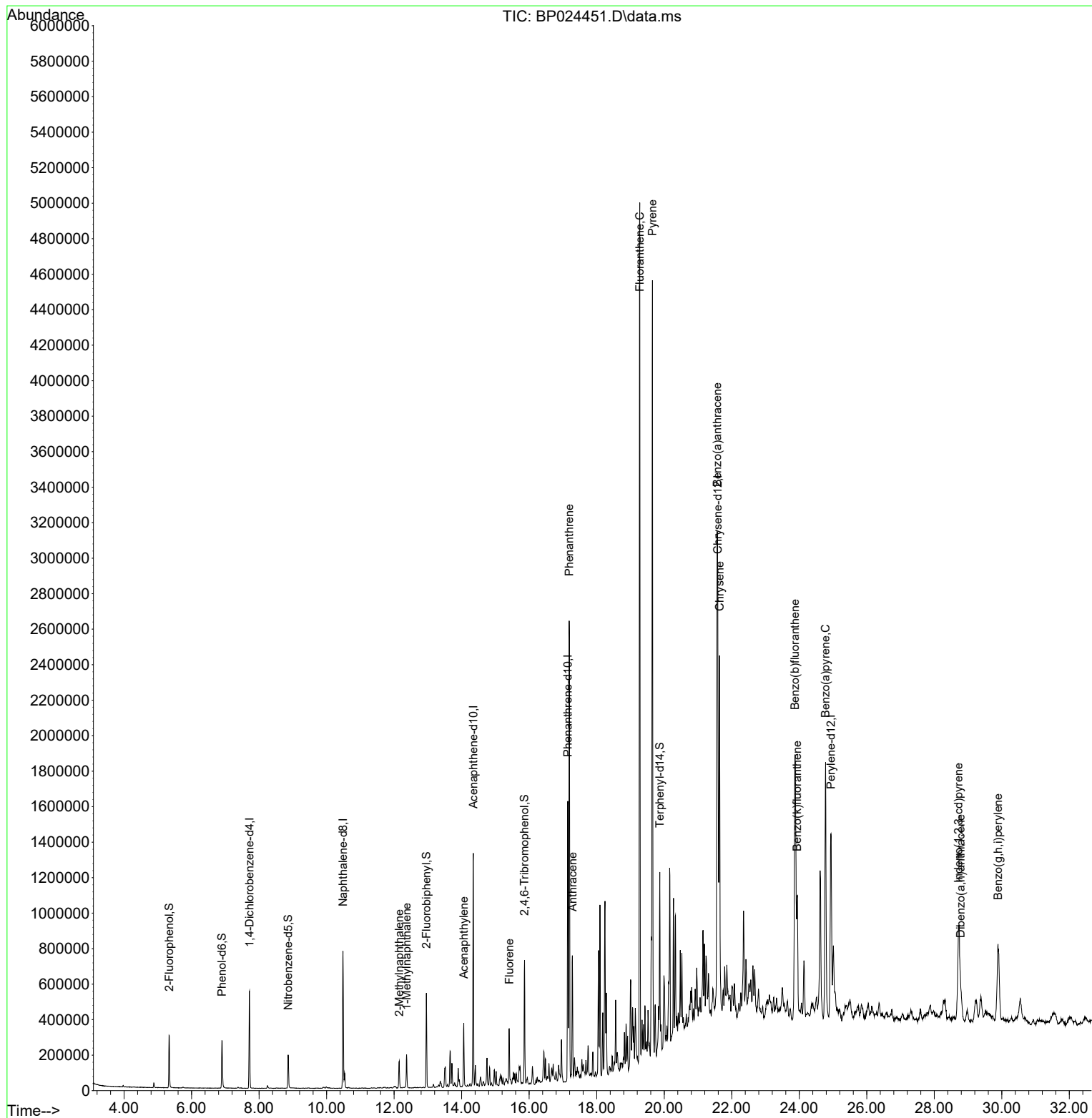
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.716	152	154529	20.000	ng	0.00
21) Naphthalene-d8	10.487	136	653781	20.000	ng	#-0.01
39) Acenaphthene-d10	14.346	164	438226	20.000	ng	0.00
64) Phenanthrene-d10	17.145	188	897005	20.000	ng	# 0.00
76) Chrysene-d12	21.586	240	954388	20.000	ng	0.00
86) Perylene-d12	24.939	264	1100765	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.340	112	138556	14.825	ng	0.00
7) Phenol-d6	6.899	99	177798	13.894	ng	-0.01
23) Nitrobenzene-d5	8.863	82	112027	9.771	ng	0.00
42) 2,4,6-Tribromophenol	15.863	330	113662	18.747	ng	0.00
45) 2-Fluorobiphenyl	12.957	172	268707	9.388	ng	0.00
79) Terphenyl-d14	19.869	244	429538	9.072	ng	0.00
Target Compounds						
						Qvalue
37) 2-Methylnaphthalene	12.152	142	75122	3.145	ng	98
38) 1-Methylnaphthalene	12.369	142	82709	3.540	ng	100
49) Acenaphthylene	14.063	152	218986	5.777	ng	98
58) Fluorene	15.410	166	139886	4.600	ng	98
71) Phenanthrene	17.187	178	1630504	33.320	ng	100
72) Anthracene	17.281	178	453220	9.610	ng	99
75) Fluoranthene	19.275	202	3035894	52.164	ng	97
78) Pyrene	19.651	202	2765215	45.591	ng	99
81) Benzo(a)anthracene	21.569	228	1639764	27.642	ng	96
83) Chrysene	21.639	228	1383150	24.337	ng	98
87) Indeno(1,2,3-cd)pyrene	28.715	276	955485	12.503	ng	99
88) Benzo(b)fluoranthene	23.874	252	1925272	29.179	ng	97
89) Benzo(k)fluoranthene	23.939	252	610963	9.586	ng	96
90) Benzo(a)pyrene	24.780	252	1399761m	24.594	ng	
91) Dibenzo(a,h)anthracene	28.780	278	267633	4.219	ng	94
92) Benzo(g,h,i)perylene	29.886	276	829092	12.842	ng	# 95

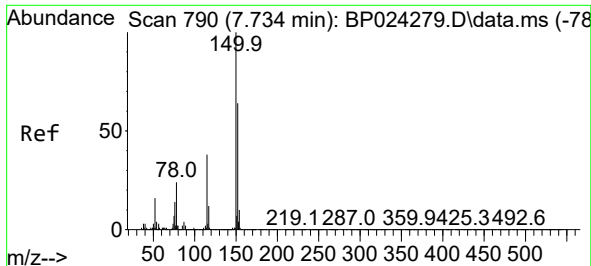
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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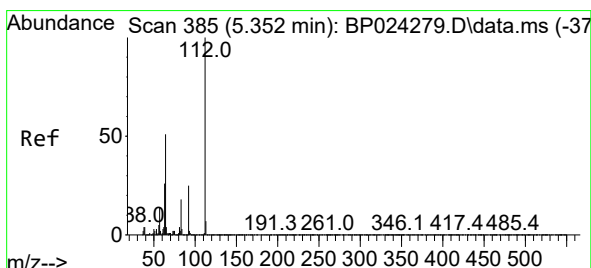
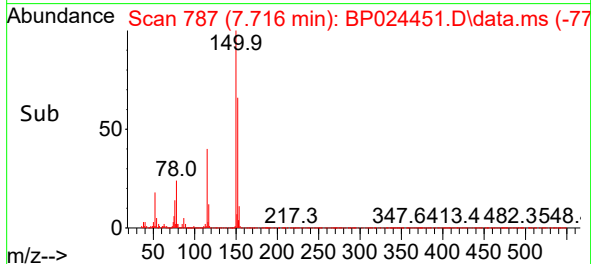
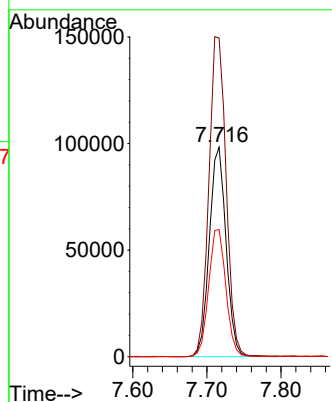
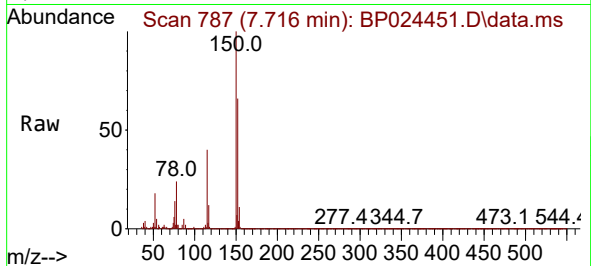




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.716 min Scan# 71
Delta R.T. -0.006 min
Lab File: BP024451.D
Acq: 29 Apr 2025 00:29

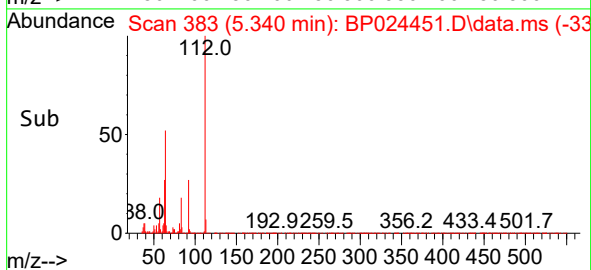
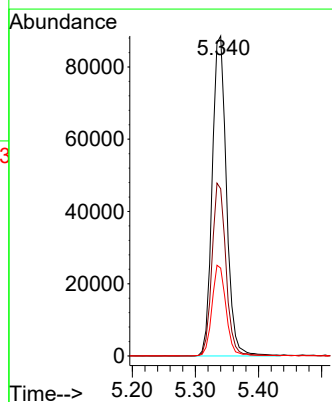
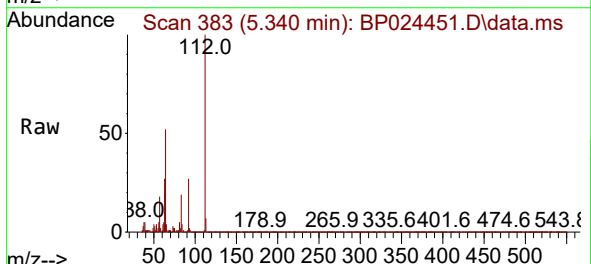
Instrument :
BNA_P
ClientSampleId :
MH-D

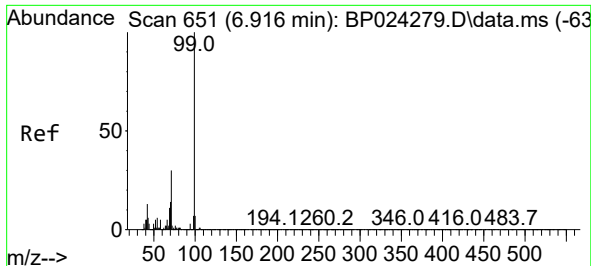
Tgt Ion:152 Resp: 154529
Ion Ratio Lower Upper
152 100
150 152.2 124.9 187.3
115 60.8 47.7 71.5



#5
2-Fluorophenol
Concen: 14.825 ng
RT: 5.340 min Scan# 383
Delta R.T. -0.006 min
Lab File: BP024451.D
Acq: 29 Apr 2025 00:29

Tgt Ion:112 Resp: 138556
Ion Ratio Lower Upper
112 100
64 52.3 41.1 61.7
63 27.4 20.6 30.8

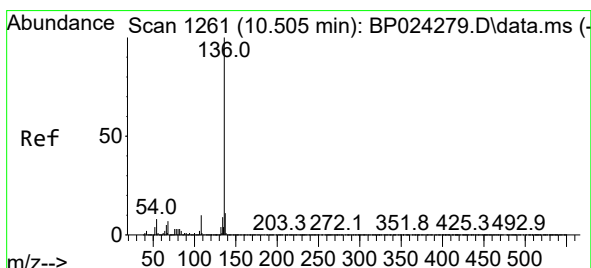
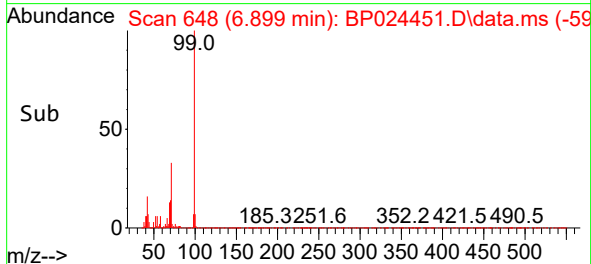
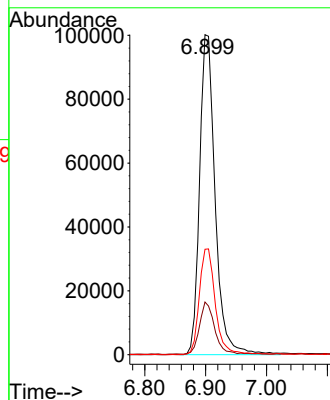
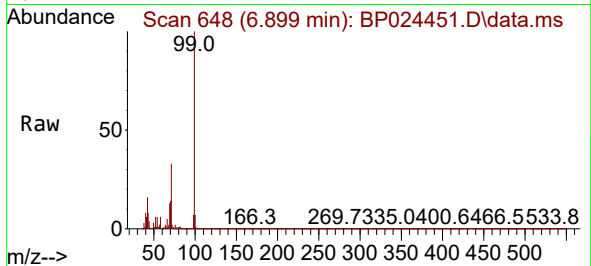




#7
Phenol-d6
Concen: 13.894 ng
RT: 6.899 min Scan# 64
Delta R.T. -0.012 min
Lab File: BP024451.D
Acq: 29 Apr 2025 00:29

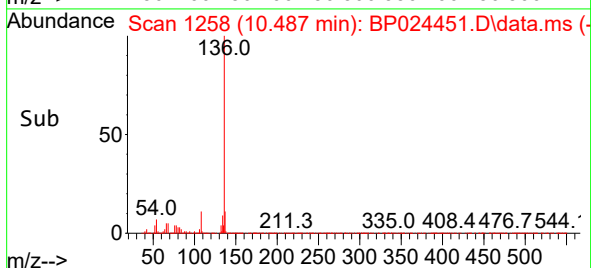
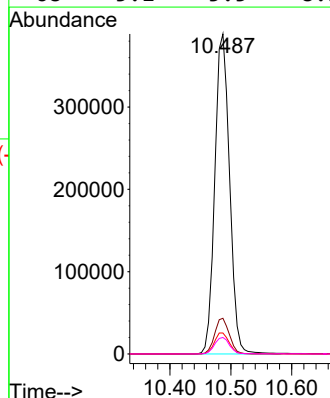
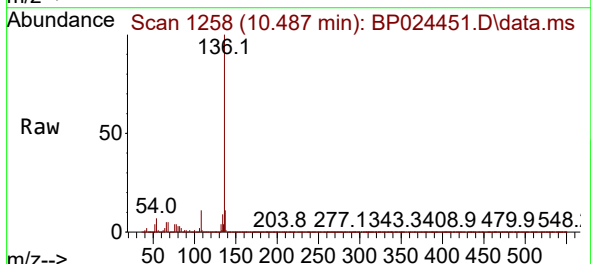
Instrument :
BNA_P
ClientSampleId :
MH-D

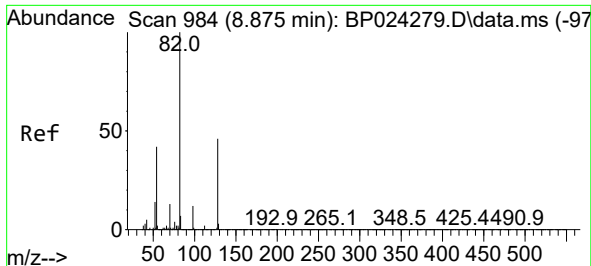
Tgt Ion: 99 Resp: 177798
Ion Ratio Lower Upper
99 100
42 16.4 10.6 16.0#
71 32.9 23.7 35.5



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.487 min Scan# 1258
Delta R.T. -0.012 min
Lab File: BP024451.D
Acq: 29 Apr 2025 00:29

Tgt Ion: 136 Resp: 653781
Ion Ratio Lower Upper
136 100
137 11.2 9.2 13.8
54 6.5 6.0 9.0
68 5.1 5.5 8.3#

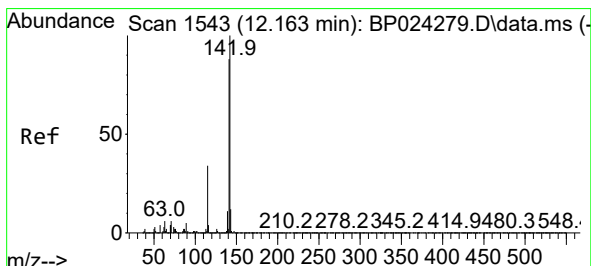
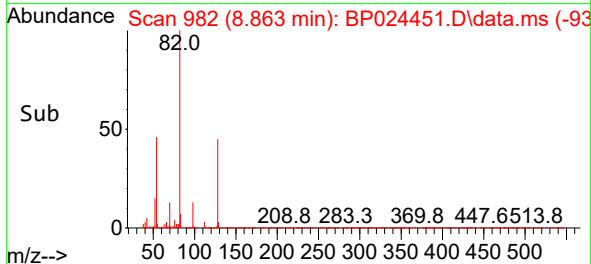
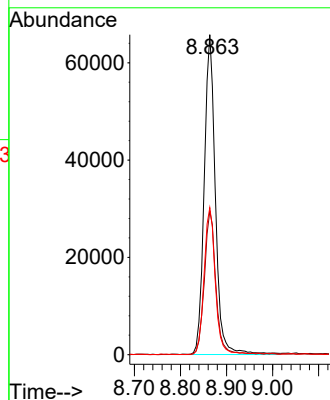
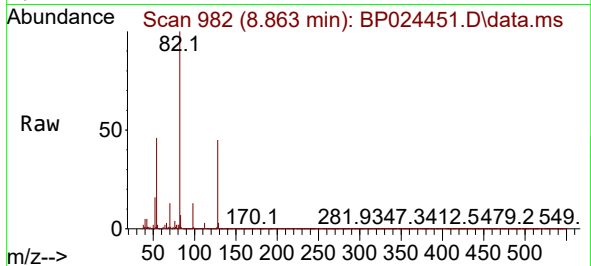




#23
Nitrobenzene-d5
Concen: 9.771 ng
RT: 8.863 min Scan# 91
Delta R.T. -0.006 min
Lab File: BP024451.D
Acq: 29 Apr 2025 00:29

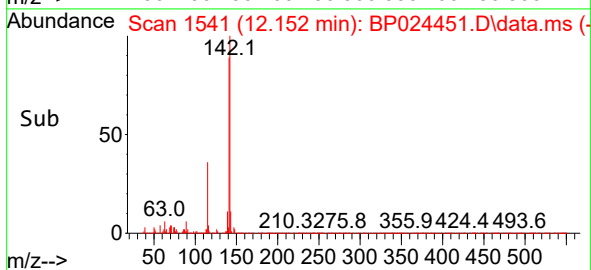
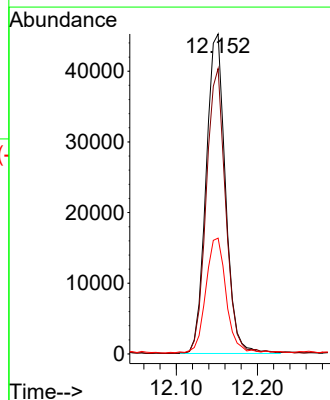
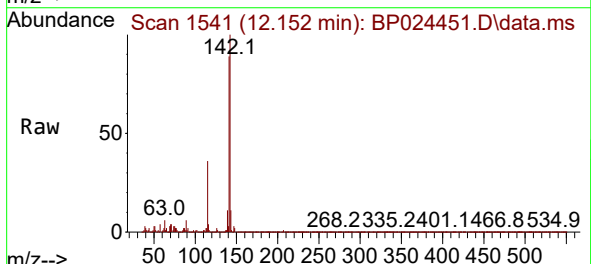
Instrument :
BNA_P
ClientSampleId :
MH-D

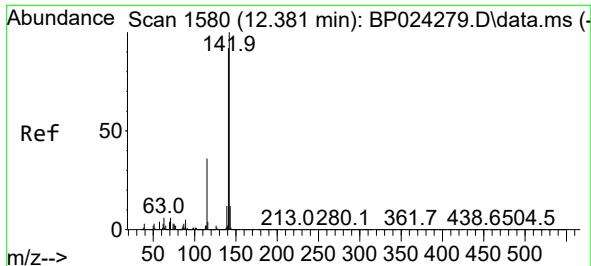
Tgt Ion: 82 Resp: 112027
Ion Ratio Lower Upper
82 100
128 44.9 36.5 54.7
54 45.9 33.4 50.2



#37
2-Methylnaphthalene
Concen: 3.145 ng
RT: 12.152 min Scan# 1541
Delta R.T. -0.006 min
Lab File: BP024451.D
Acq: 29 Apr 2025 00:29

Tgt Ion: 142 Resp: 75122
Ion Ratio Lower Upper
142 100
141 89.2 70.3 105.5
115 36.2 26.9 40.3

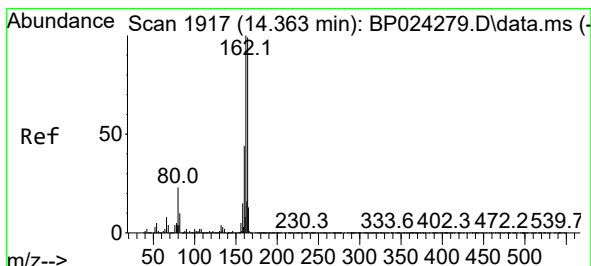
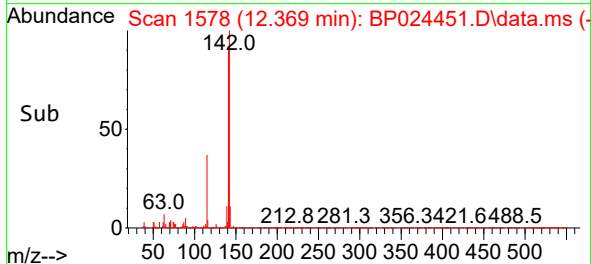
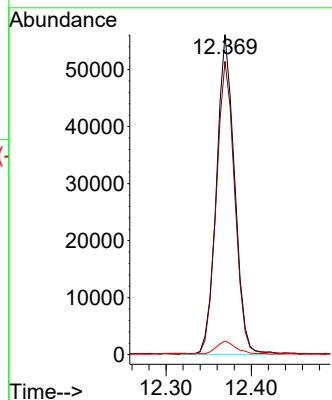
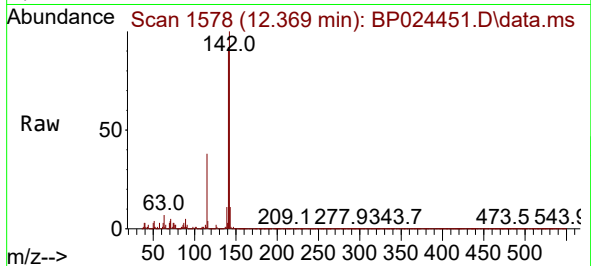




#38
1-Methylnaphthalene
Concen: 3.540 ng
RT: 12.369 min Scan# 11
Delta R.T. -0.006 min
Lab File: BP024451.D
Acq: 29 Apr 2025 00:29

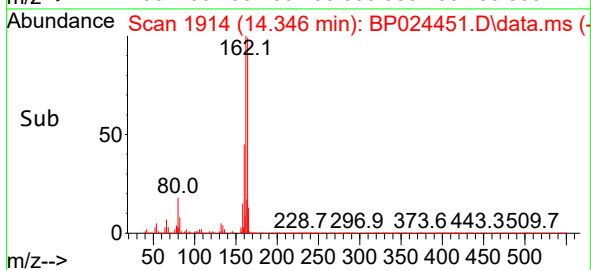
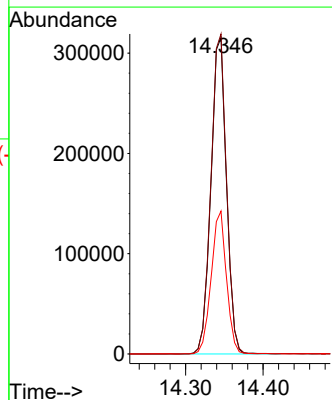
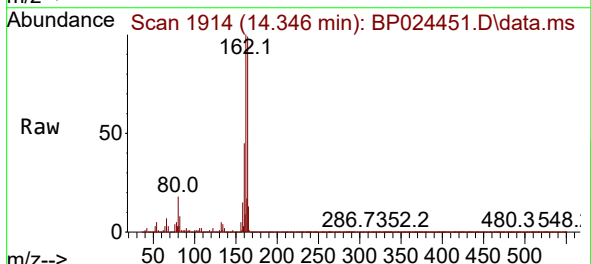
Instrument :
BNA_P
ClientSampleId :
MH-D

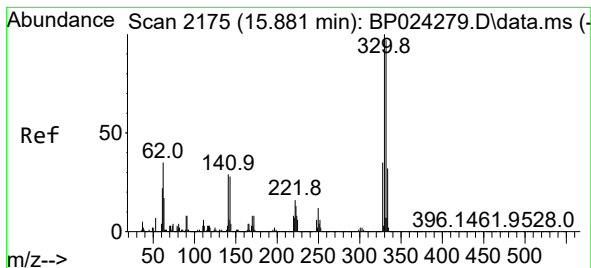
Tgt Ion:142 Resp: 82709
Ion Ratio Lower Upper
142 100
141 91.7 73.6 110.4
116 4.3 3.0 4.6



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.346 min Scan# 1914
Delta R.T. -0.006 min
Lab File: BP024451.D
Acq: 29 Apr 2025 00:29

Tgt Ion:164 Resp: 438226
Ion Ratio Lower Upper
164 100
162 101.2 80.6 120.8
160 45.2 35.3 52.9





#42

2,4,6-Tribromophenol

Concen: 18.747 ng

RT: 15.863 min Scan# 2175

Delta R.T. 0.000 min

Lab File: BP024451.D

Acq: 29 Apr 2025 00:29

Instrument :

BNA_P

ClientSampleId :

MH-D

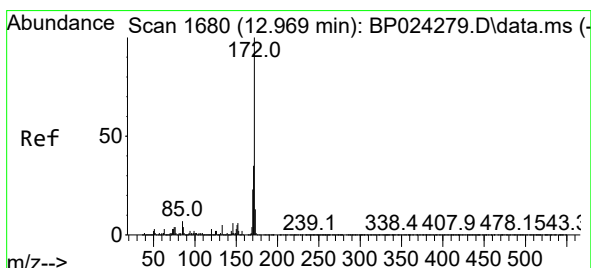
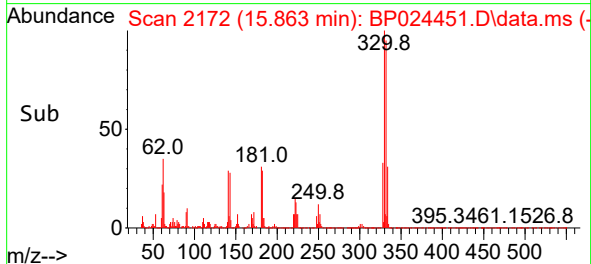
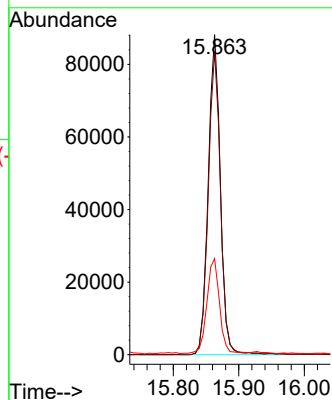
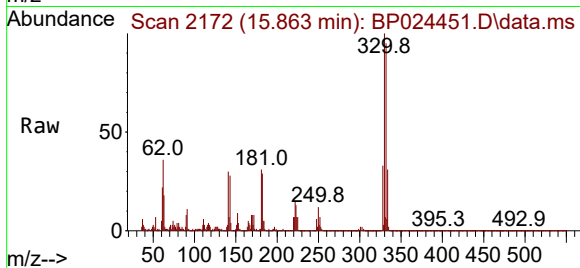
Tgt Ion:330 Resp: 113662

Ion Ratio Lower Upper

330 100

332 95.1 77.1 115.7

141 30.4 24.7 37.1



#45

2-Fluorobiphenyl

Concen: 9.388 ng

RT: 12.957 min Scan# 1678

Delta R.T. -0.006 min

Lab File: BP024451.D

Acq: 29 Apr 2025 00:29

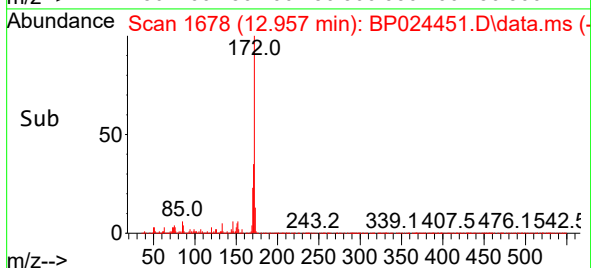
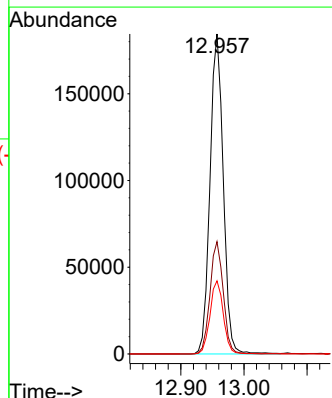
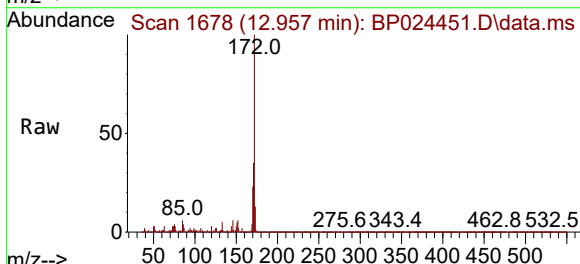
Tgt Ion:172 Resp: 268707

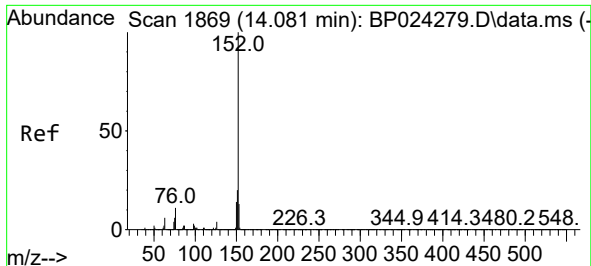
Ion Ratio Lower Upper

172 100

171 35.1 28.2 42.2

170 22.8 18.6 27.8

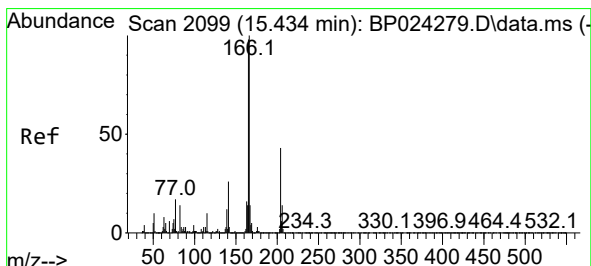
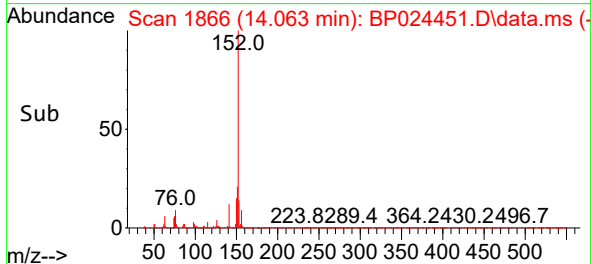
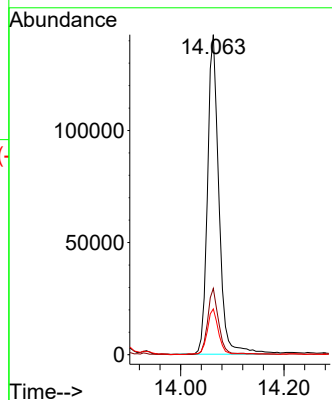
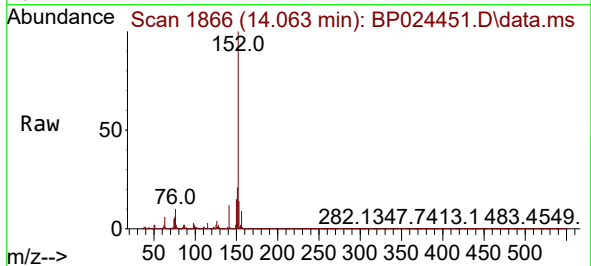




#49
Acenaphthylene
Concen: 5.777 ng
RT: 14.063 min Scan# 1866
Delta R.T. -0.006 min
Lab File: BP024451.D
Acq: 29 Apr 2025 00:29

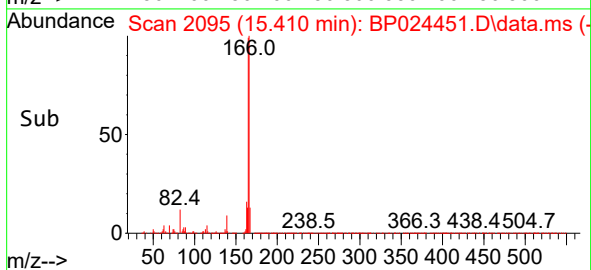
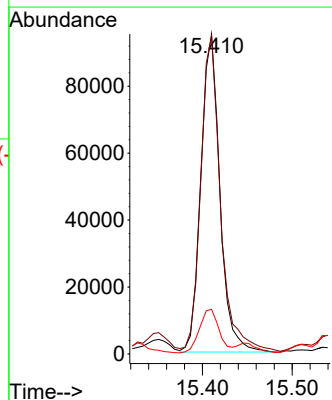
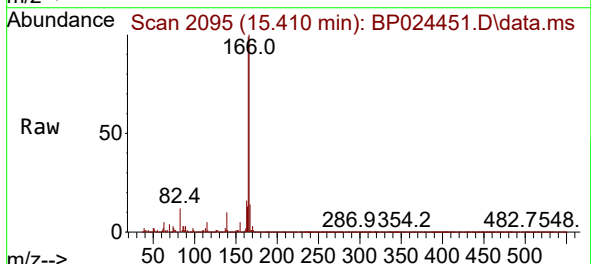
Instrument :
BNA_P
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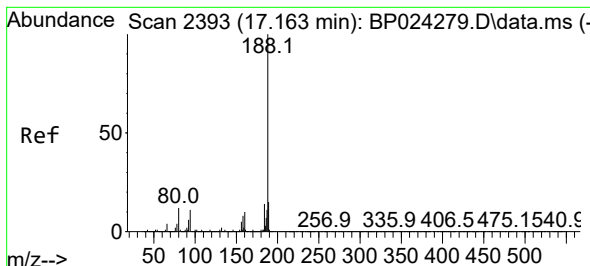
Tgt Ion:152 Resp: 218986
Ion Ratio Lower Upper
152 100
151 20.7 15.9 23.9
153 14.3 10.6 15.8



#58
Fluorene
Concen: 4.600 ng
RT: 15.410 min Scan# 2095
Delta R.T. -0.006 min
Lab File: BP024451.D
Acq: 29 Apr 2025 00:29

Tgt Ion:166 Resp: 139886
Ion Ratio Lower Upper
166 100
165 99.4 78.1 117.1
167 14.0 10.9 16.3





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.145 min Scan# 21

Delta R.T. 0.000 min

Lab File: BP024451.D

Acq: 29 Apr 2025 00:29

Instrument :

BNA_P

ClientSampleId :

MH-D

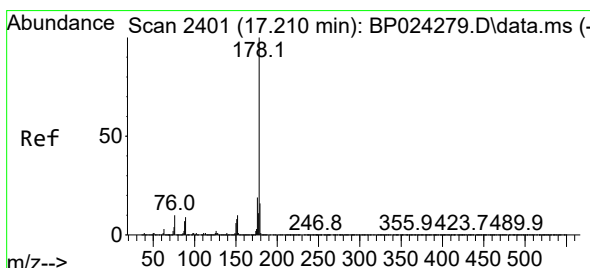
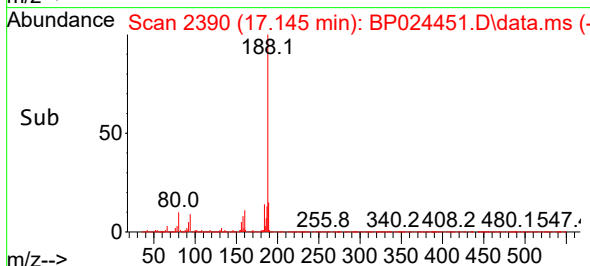
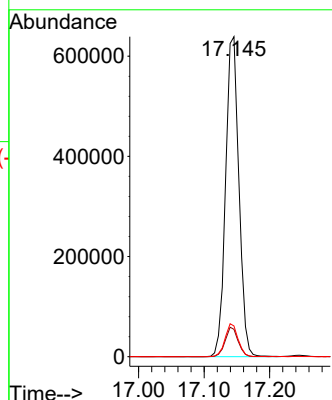
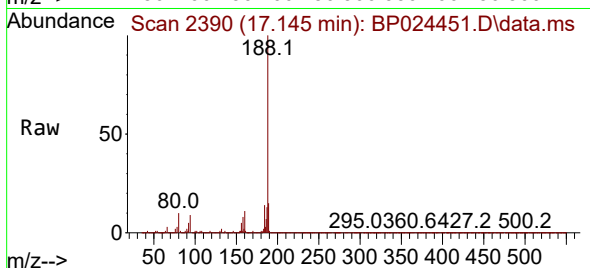
Tgt Ion:188 Resp: 897005

Ion Ratio Lower Upper

188 100

94 8.5 8.6 13.0#

80 9.6 9.8 14.6#



#71

Phenanthrene

Concen: 33.320 ng

RT: 17.187 min Scan# 2397

Delta R.T. -0.006 min

Lab File: BP024451.D

Acq: 29 Apr 2025 00:29

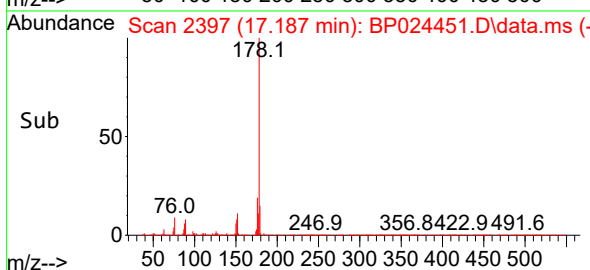
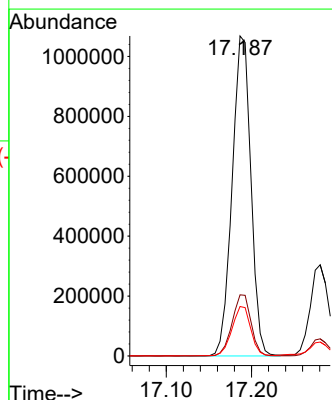
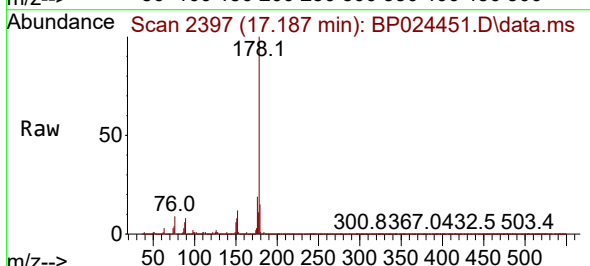
Tgt Ion:178 Resp: 1630504

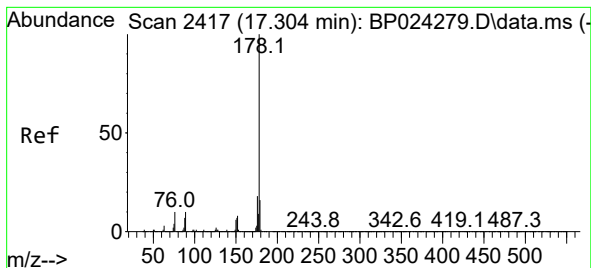
Ion Ratio Lower Upper

178 100

176 19.1 15.4 23.0

179 15.4 12.5 18.7





#72

Anthracene

Concen: 9.610 ng

RT: 17.281 min Scan# 2417

Delta R.T. -0.006 min

Lab File: BP024451.D

Acq: 29 Apr 2025 00:29

Instrument :

BNA_P

ClientSampleId :

MH-D

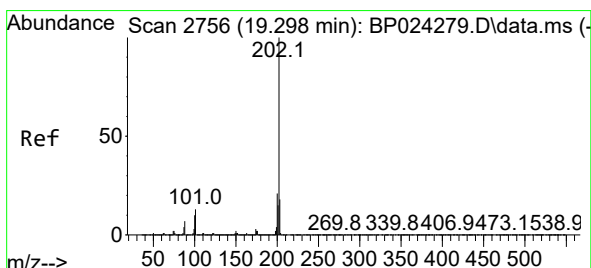
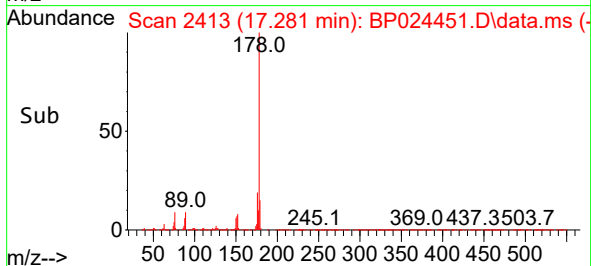
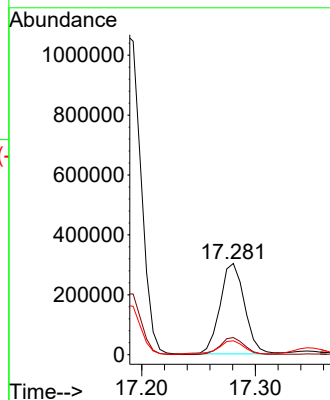
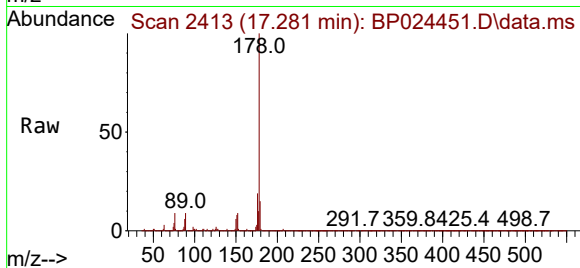
Tgt Ion:178 Resp: 453220

Ion Ratio Lower Upper

178 100

176 18.7 14.7 22.1

179 15.3 12.4 18.6



#75

Fluoranthene

Concen: 52.164 ng

RT: 19.275 min Scan# 2752

Delta R.T. -0.006 min

Lab File: BP024451.D

Acq: 29 Apr 2025 00:29

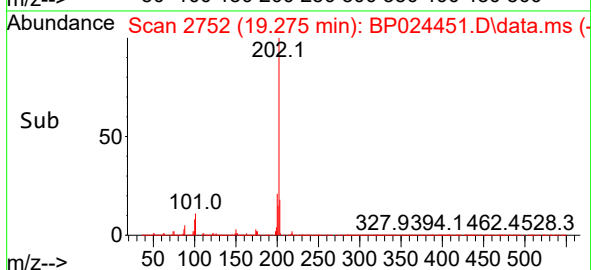
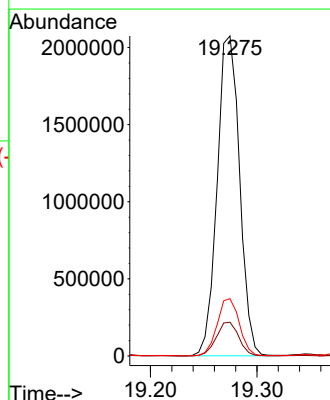
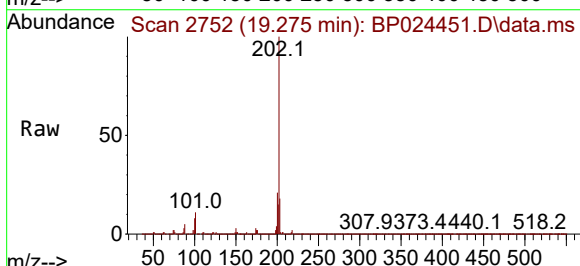
Tgt Ion:202 Resp: 3035894

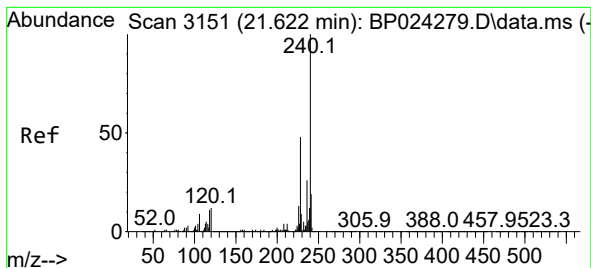
Ion Ratio Lower Upper

202 100

101 10.6 0.0 33.2

203 17.9 0.0 37.7





#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.586 min Scan# 3151

Delta R.T. -0.006 min

Lab File: BP024451.D

Acq: 29 Apr 2025 00:29

Instrument :

BNA_P

ClientSampleId :

MH-D

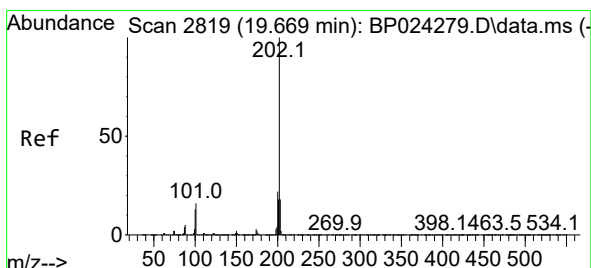
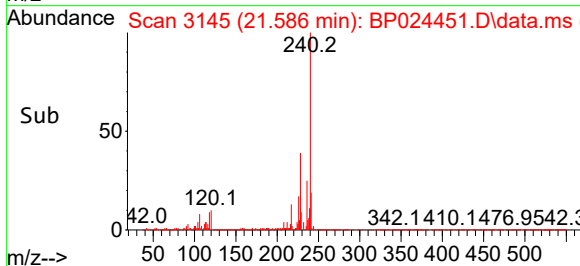
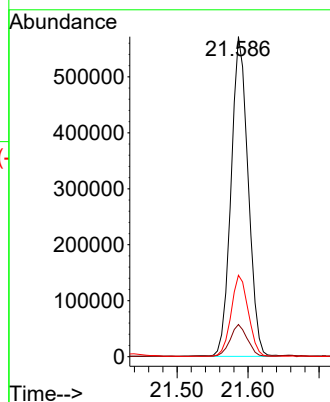
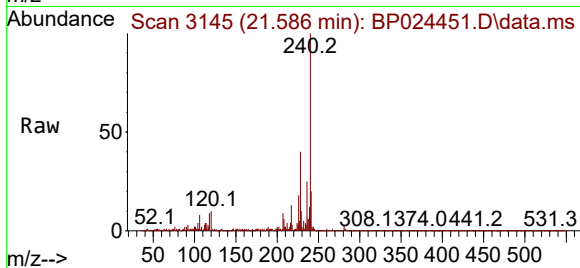
Tgt Ion:240 Resp: 954388

Ion Ratio Lower Upper

240 100

120 10.0 9.8 14.8

236 25.5 20.9 31.3



#78

Pyrene

Concen: 45.591 ng

RT: 19.651 min Scan# 2816

Delta R.T. 0.000 min

Lab File: BP024451.D

Acq: 29 Apr 2025 00:29

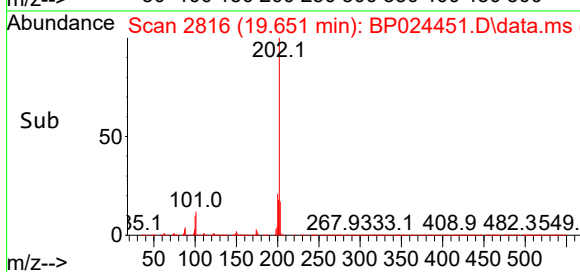
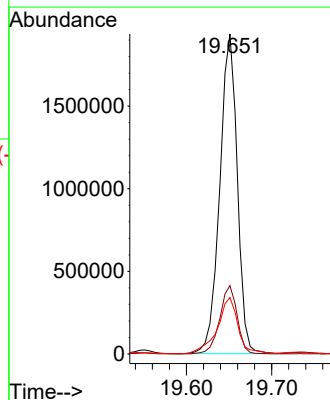
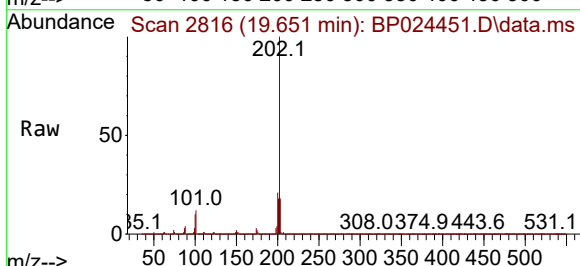
Tgt Ion:202 Resp: 2765215

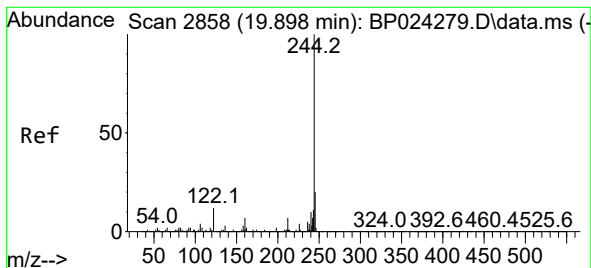
Ion Ratio Lower Upper

202 100

200 21.3 17.2 25.8

203 17.6 14.4 21.6





#79

Terphenyl-d14

Concen: 9.072 ng

RT: 19.869 min Scan# 21

Delta R.T. -0.006 min

Lab File: BP024451.D

Acq: 29 Apr 2025 00:29

Instrument :

BNA_P

ClientSampleId :

MH-D

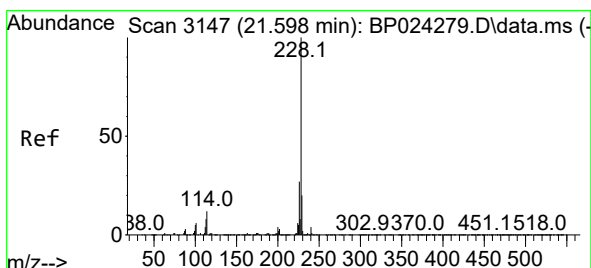
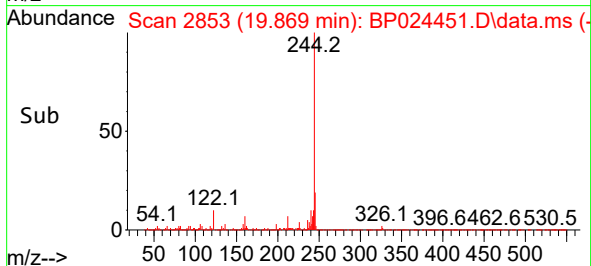
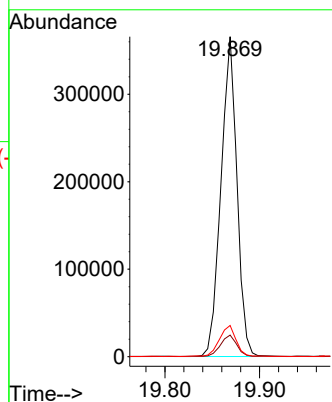
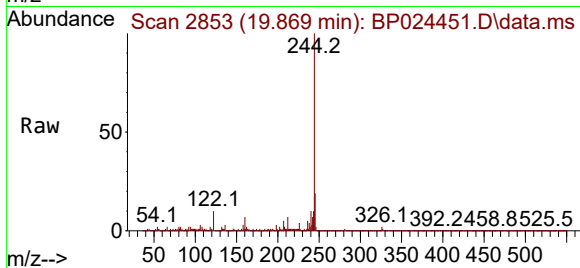
Tgt Ion:244 Resp: 429538

Ion Ratio Lower Upper

244 100

212 6.8 5.6 8.4

122 9.7 9.4 14.0



#81

Benzo(a)anthracene

Concen: 27.642 ng

RT: 21.569 min Scan# 3142

Delta R.T. 0.000 min

Lab File: BP024451.D

Acq: 29 Apr 2025 00:29

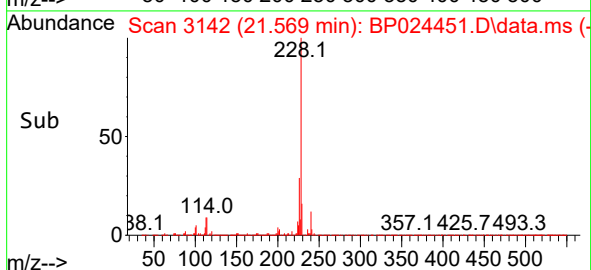
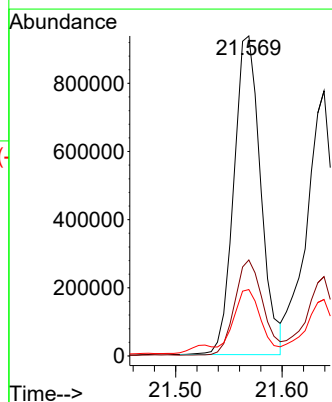
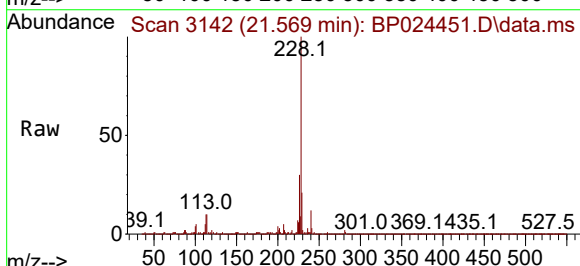
Tgt Ion:228 Resp: 1639764

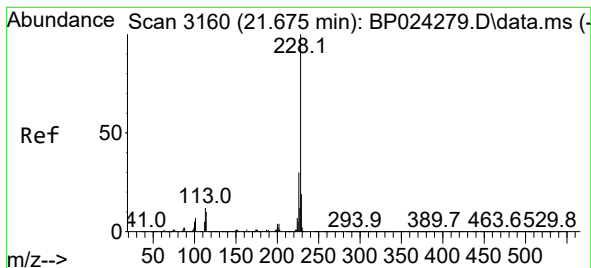
Ion Ratio Lower Upper

228 100

226 30.0 21.8 32.8

229 20.7 15.9 23.9





#83

Chrysene

Concen: 24.337 ng

RT: 21.639 min Scan# 3160

Delta R.T. 0.000 min

Lab File: BP024451.D

Acq: 29 Apr 2025 00:29

Instrument :

BNA_P

ClientSampleId :

MH-D

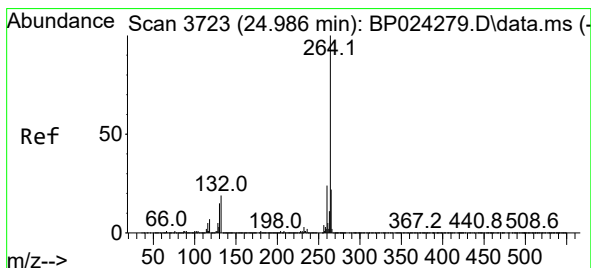
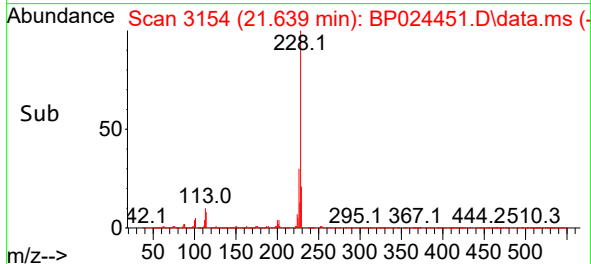
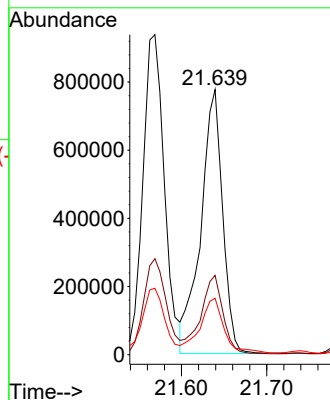
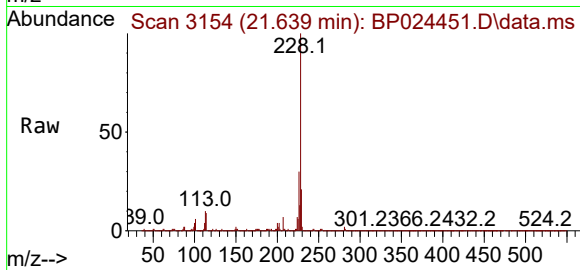
Tgt Ion:228 Resp: 1383150

Ion Ratio Lower Upper

228 100

226 29.9 24.2 36.2

229 21.3 15.6 23.4



#86

Perylene-d12

Concen: 20.000 ng

RT: 24.939 min Scan# 3715

Delta R.T. 0.006 min

Lab File: BP024451.D

Acq: 29 Apr 2025 00:29

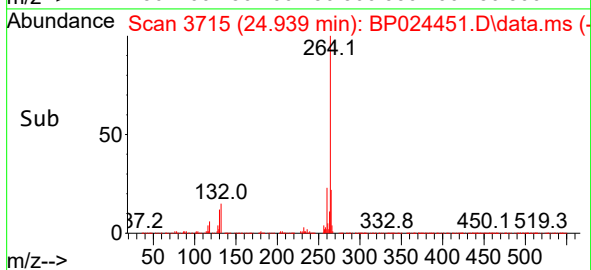
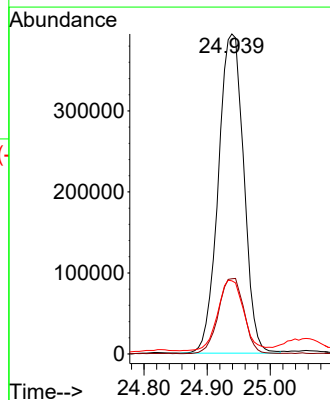
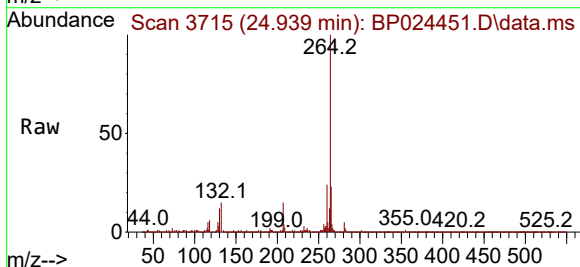
Tgt Ion:264 Resp: 1100765

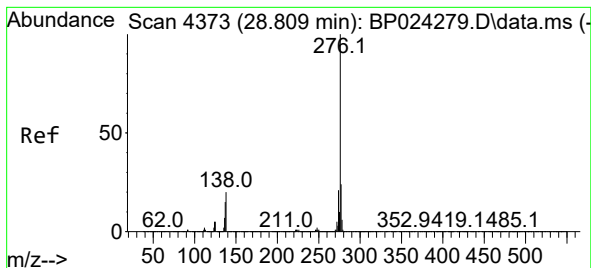
Ion Ratio Lower Upper

264 100

260 23.5 18.9 28.3

265 22.8 17.8 26.6





#87

Indeno(1,2,3-cd)pyrene

Concen: 12.503 ng

RT: 28.715 min Scan# 41

Delta R.T. -0.023 min

Lab File: BP024451.D

Acq: 29 Apr 2025 00:29

Instrument :

BNA_P

ClientSampleId :

MH-D

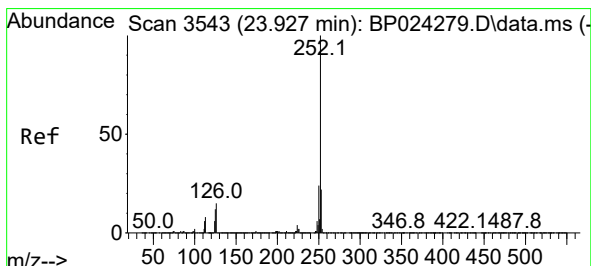
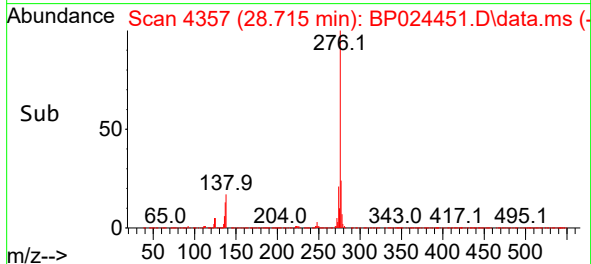
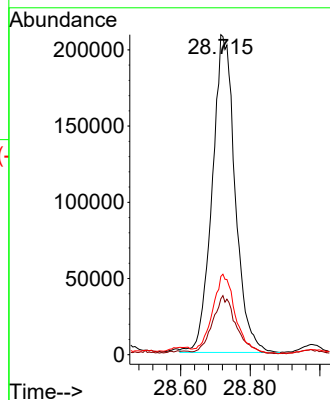
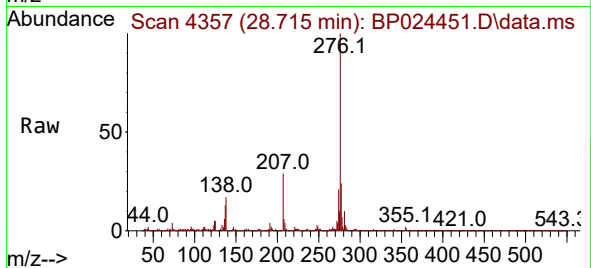
Tgt Ion:276 Resp: 955485

Ion Ratio Lower Upper

276 100

138 19.0 14.5 21.7

277 25.3 20.2 30.2



#88

Benzo(b)fluoranthene

Concen: 29.179 ng

RT: 23.874 min Scan# 3534

Delta R.T. -0.012 min

Lab File: BP024451.D

Acq: 29 Apr 2025 00:29

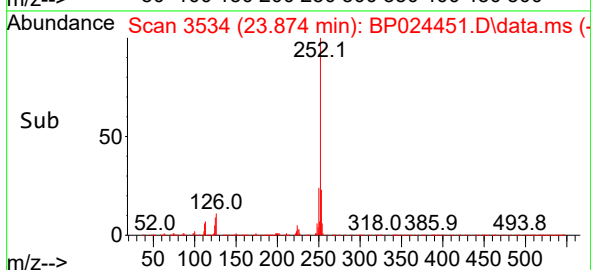
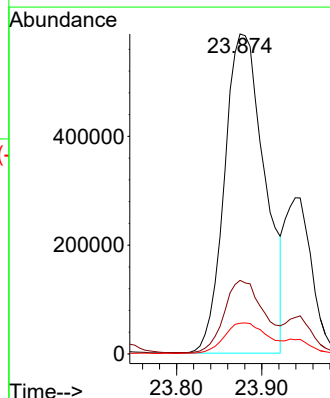
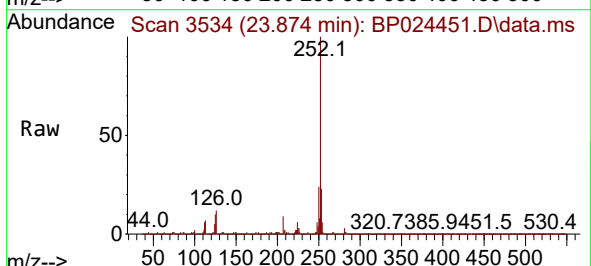
Tgt Ion:252 Resp: 1925272

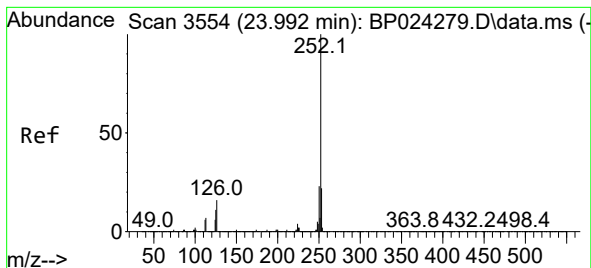
Ion Ratio Lower Upper

252 100

253 23.0 17.7 26.5

125 9.6 9.4 14.0





#89

Benzo(k)fluoranthene

Concen: 9.586 ng

RT: 23.939 min Scan# 31

Delta R.T. -0.017 min

Lab File: BP024451.D

Acq: 29 Apr 2025 00:29

Instrument :

BNA_P

ClientSampleId :

MH-D

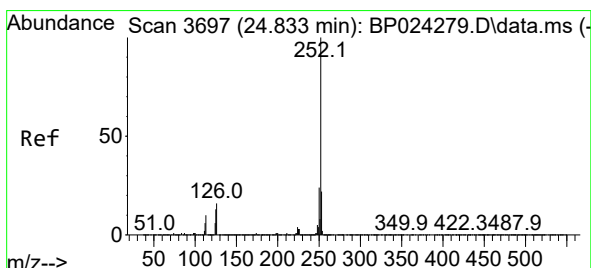
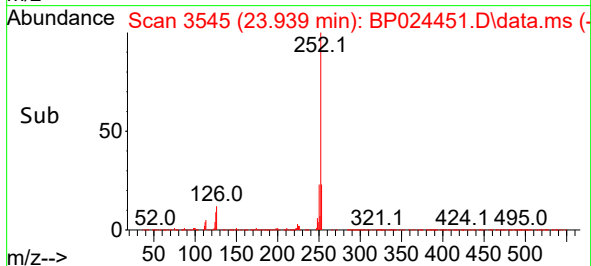
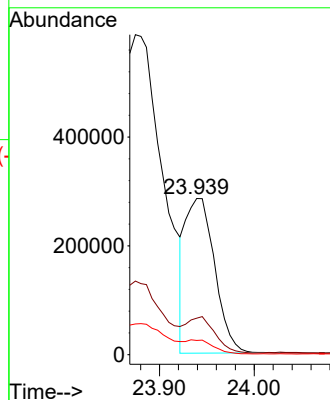
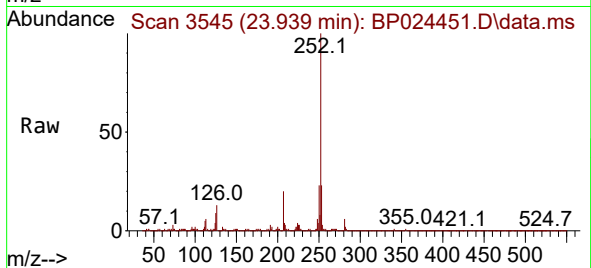
Tgt Ion:252 Resp: 610963

Ion Ratio Lower Upper

252 100

253 23.4 17.7 26.5

125 9.2 9.1 13.7



#90

Benzo(a)pyrene

Concen: 24.594 ng m

RT: 24.780 min Scan# 3688

Delta R.T. 0.000 min

Lab File: BP024451.D

Acq: 29 Apr 2025 00:29

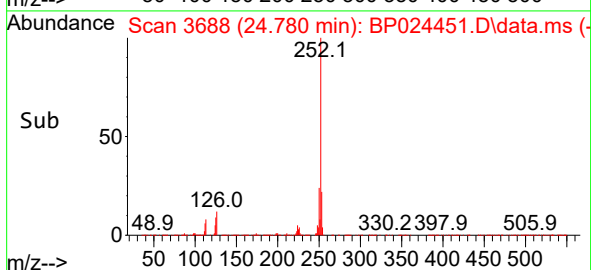
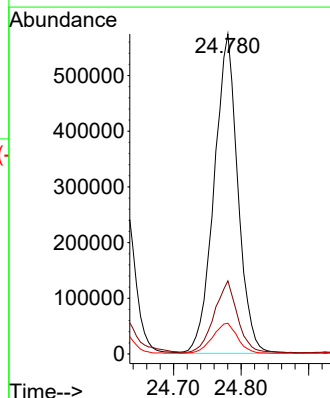
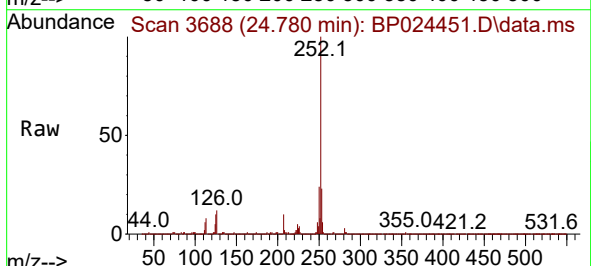
Tgt Ion:252 Resp: 1399761

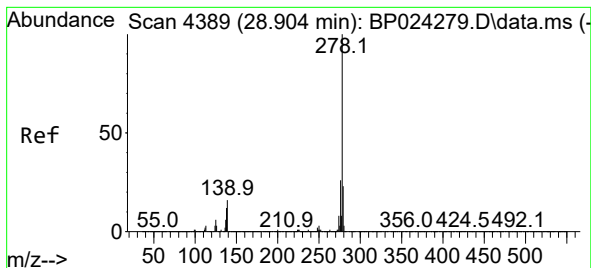
Ion Ratio Lower Upper

252 100

253 22.9 17.6 26.4

125 9.6 10.1 15.1#





#91

Dibenzo(a,h)anthracene

Concen: 4.219 ng

RT: 28.780 min Scan# 41

Delta R.T. -0.023 min

Lab File: BP024451.D

Acq: 29 Apr 2025 00:29

Instrument :

BNA_P

ClientSampleId :

MH-D

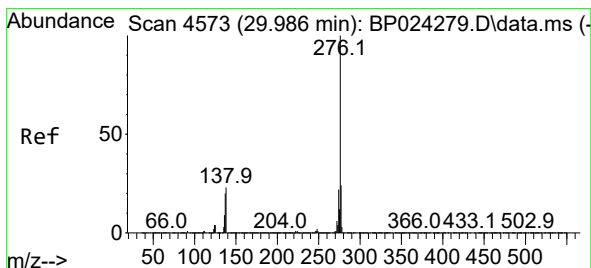
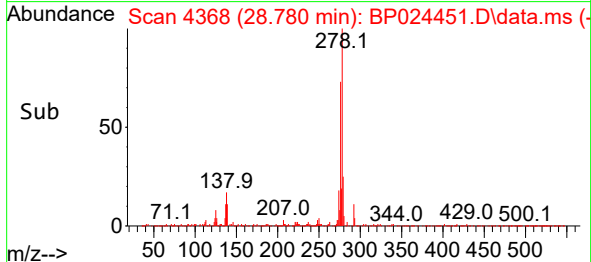
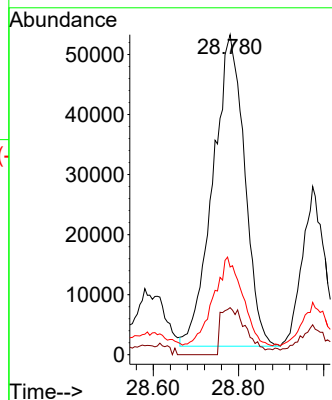
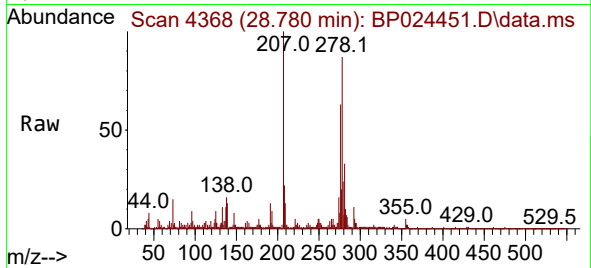
Tgt Ion:278 Resp: 267633

Ion Ratio Lower Upper

278 100

139 14.7 12.6 19.0

279 27.4 18.5 27.7



#92

Benzo(g,h,i)perylene

Concen: 12.842 ng

RT: 29.886 min Scan# 4556

Delta R.T. -0.012 min

Lab File: BP024451.D

Acq: 29 Apr 2025 00:29

Tgt Ion:276 Resp: 829092

Ion Ratio Lower Upper

276 100

277 23.5 18.9 28.3

138 18.4 18.7 28.1#

