

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP042525\
 Data File : BP024428.D
 Acq On : 25 Apr 2025 18:32
 Operator : RC/JU
 Sample : Q18671-05
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 MH-B

Quant Time: Apr 25 22:52:06 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)

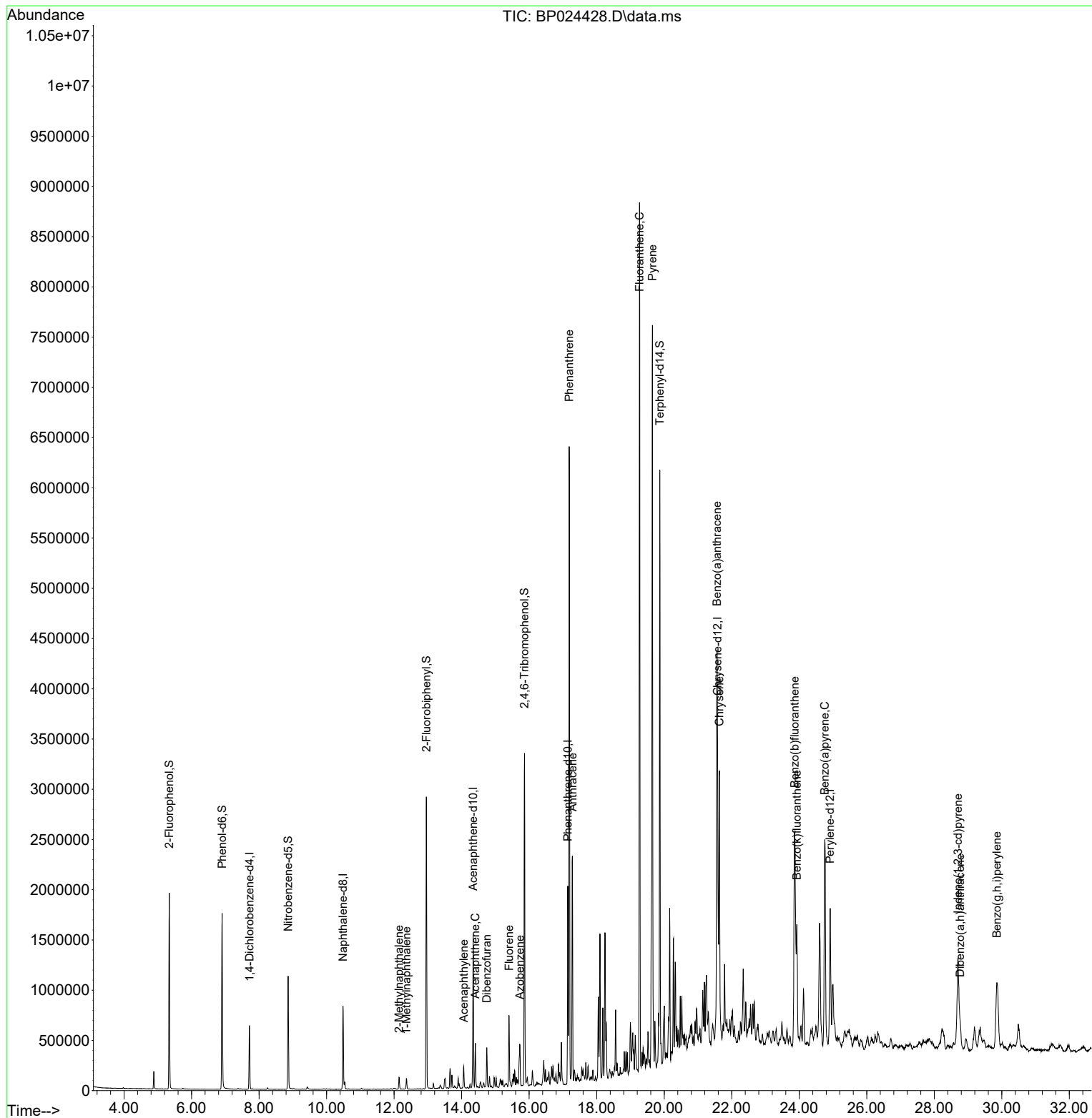
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.716	152	174555	20.000	ng	0.00
21) Naphthalene-d8	10.487	136	730368	20.000	ng	-0.01
39) Acenaphthene-d10	14.340	164	497244	20.000	ng	-0.01
64) Phenanthrene-d10	17.145	188	1031092	20.000	ng	0.00
76) Chrysene-d12	21.580	240	1083711	20.000	ng	-0.01
86) Perylene-d12	24.915	264	1255341	20.000	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.340	112	851957	80.701	ng	0.00
7) Phenol-d6	6.905	99	1083983	74.988	ng	0.00
23) Nitrobenzene-d5	8.863	82	673014	52.543	ng	0.00
42) 2,4,6-Tribromophenol	15.863	330	655995	95.353	ng	0.00
45) 2-Fluorobiphenyl	12.957	172	1588895	48.925	ng	0.00
79) Terphenyl-d14	19.869	244	2885097	53.661	ng	0.00
Target Compounds						Qvalue
37) 2-Methylnaphthalene	12.146	142	59332	2.224	ng	97
38) 1-Methylnaphthalene	12.363	142	54552	2.090	ng	99
49) Acenaphthylene	14.063	152	141481	3.290	ng	98
52) Acenaphthene	14.404	154	152960	5.610	ng	99
55) Dibenzofuran	14.745	168	206225	4.627	ng	# 95
58) Fluorene	15.404	166	333359	9.662	ng	99
63) Azobenzene	15.722	77	106133	3.099	ng	# 1
71) Phenanthrene	17.186	178	3676749	65.366	ng	100
72) Anthracene	17.281	178	1421075	26.213	ng	100
75) Fluoranthene	19.269	202	5292722	79.115	ng	97
78) Pyrene	19.651	202	4756583	69.065	ng	100
81) Benzo(a)anthracene	21.563	228	2489472	36.958	ng	98
83) Chrysene	21.633	228	2012553	31.186	ng	97
87) Indeno(1,2,3-cd)pyrene	28.704	276	1491444	17.113	ng	99
88) Benzo(b)fluoranthene	23.863	252	2888221	38.384	ng	98
89) Benzo(k)fluoranthene	23.927	252	968047	13.319	ng	96
90) Benzo(a)pyrene	24.757	252	2309716	35.585	ng	98
91) Dibenzo(a,h)anthracene	28.768	278	382753	5.291	ng	# 92
92) Benzo(g,h,i)perylene	29.856	276	1398409	18.992	ng	95

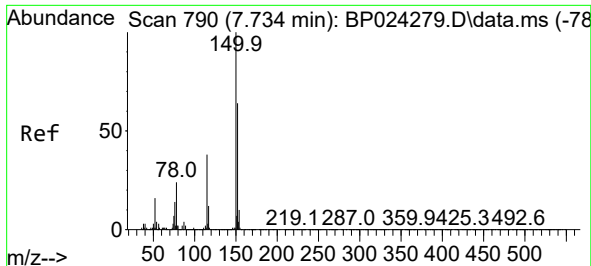
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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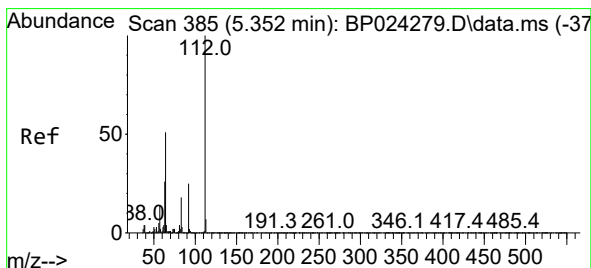
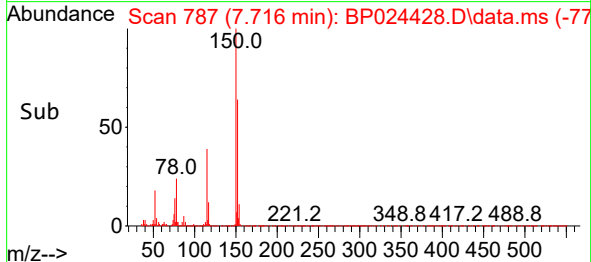
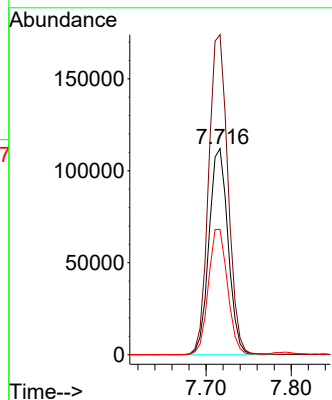
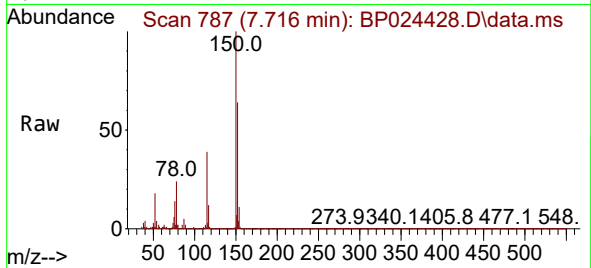




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.716 min Scan# 71
Delta R.T. -0.006 min
Lab File: BP024428.D
Acq: 25 Apr 2025 18:32

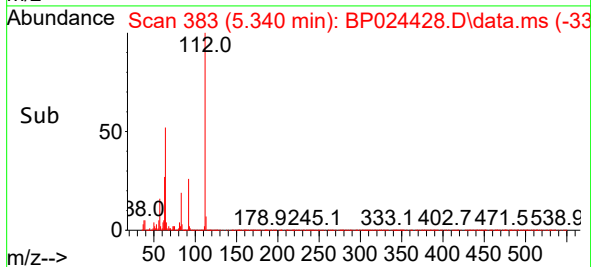
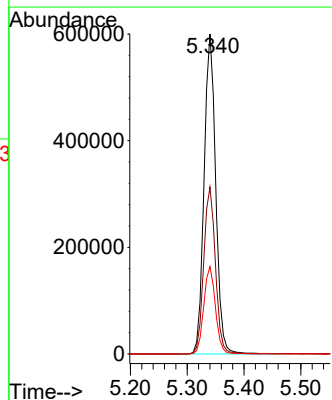
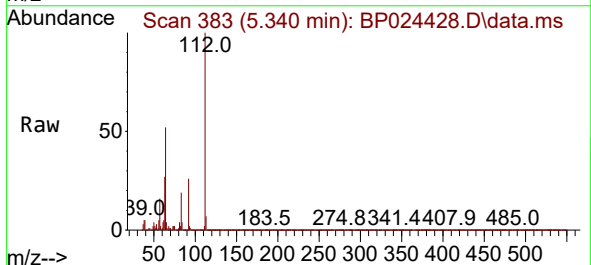
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BNA_P
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MH-B

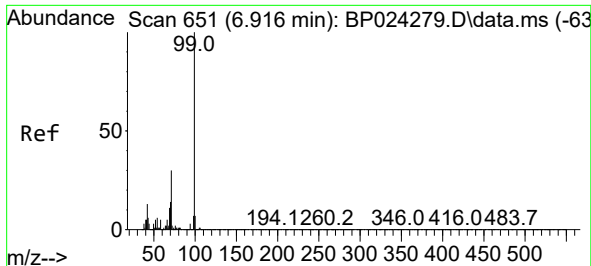
Tgt Ion:152 Resp: 174555
Ion Ratio Lower Upper
152 100
150 155.2 124.9 187.3
115 60.8 47.7 71.5



#5
2-Fluorophenol
Concen: 80.701 ng
RT: 5.340 min Scan# 383
Delta R.T. -0.006 min
Lab File: BP024428.D
Acq: 25 Apr 2025 18:32

Tgt Ion:112 Resp: 851957
Ion Ratio Lower Upper
112 100
64 52.1 41.1 61.7
63 27.3 20.6 30.8

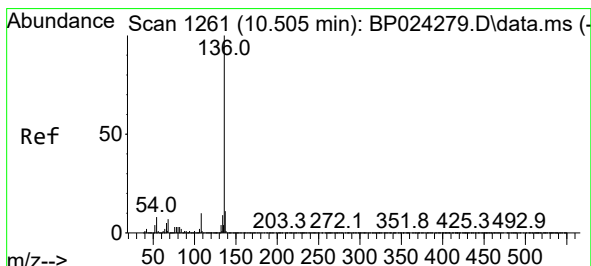
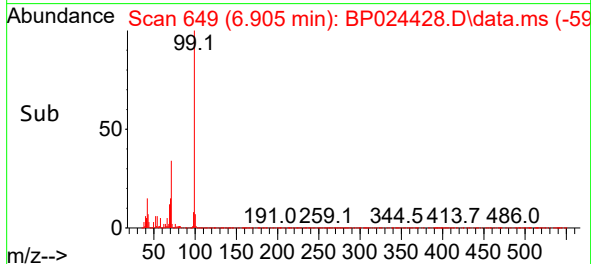
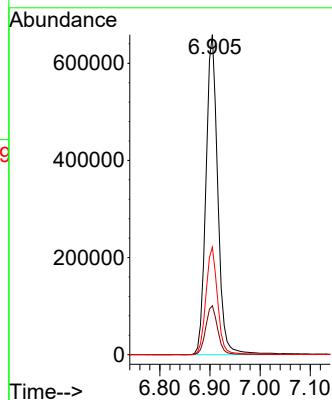
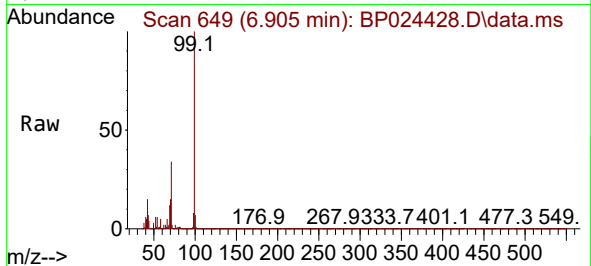




#7
Phenol-d6
Concen: 74.988 ng
RT: 6.905 min Scan# 64
Delta R.T. -0.006 min
Lab File: BP024428.D
Acq: 25 Apr 2025 18:32

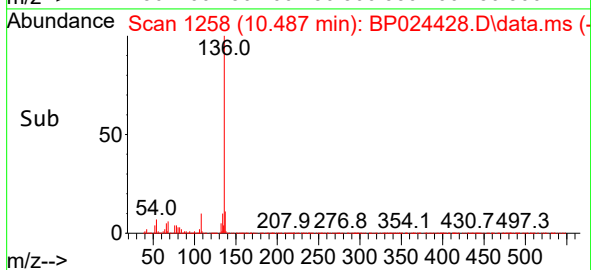
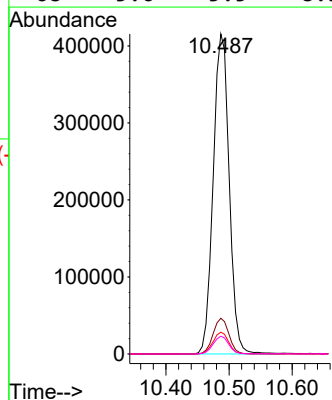
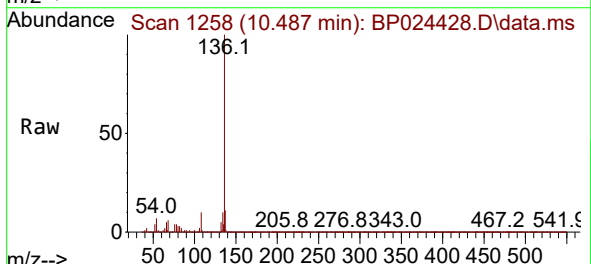
Instrument :
BNA_P
ClientSampleId :
MH-B

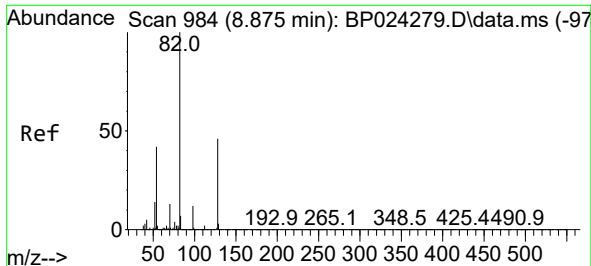
Tgt Ion: 99 Resp: 1083983
Ion Ratio Lower Upper
99 100
42 15.3 10.6 16.0
71 33.6 23.7 35.5



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.487 min Scan# 1258
Delta R.T. -0.012 min
Lab File: BP024428.D
Acq: 25 Apr 2025 18:32

Tgt Ion:136 Resp: 730368
Ion Ratio Lower Upper
136 100
137 11.1 9.2 13.8
54 6.8 6.0 9.0
68 5.6 5.5 8.3

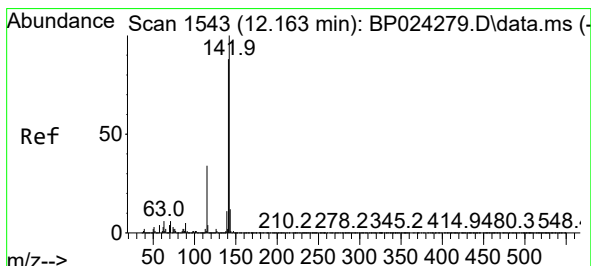
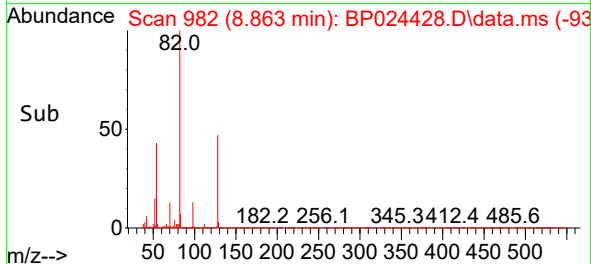
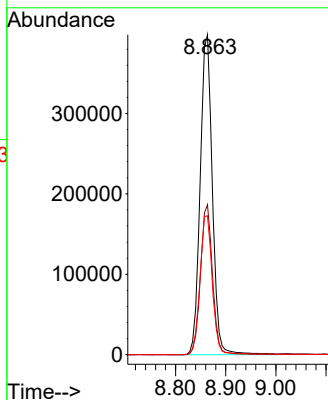
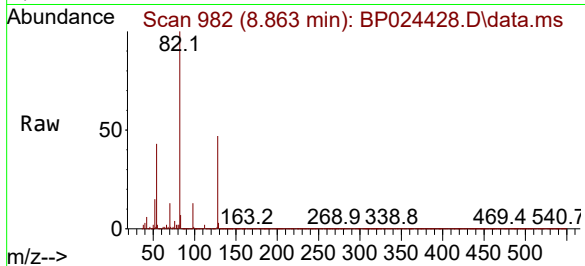




#23
Nitrobenzene-d5
Concen: 52.543 ng
RT: 8.863 min Scan# 91
Delta R.T. -0.006 min
Lab File: BP024428.D
Acq: 25 Apr 2025 18:32

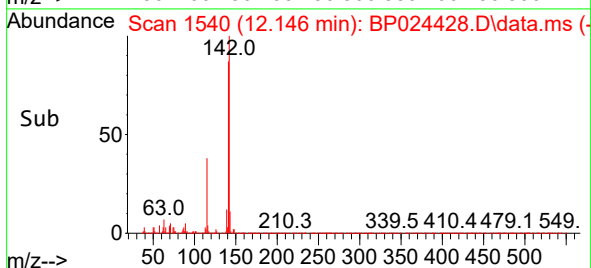
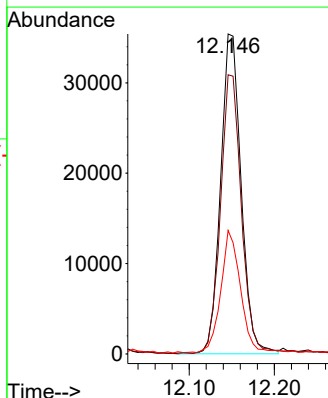
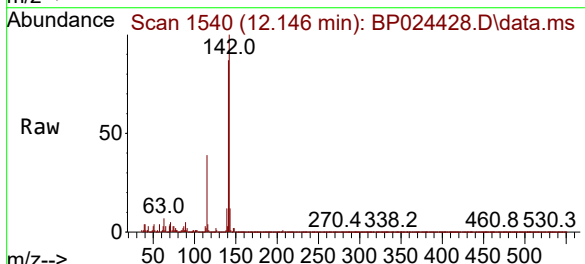
Instrument :
BNA_P
ClientSampleId :
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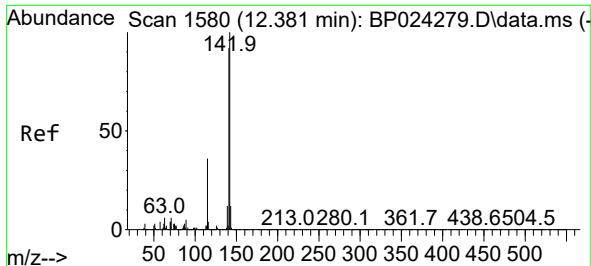
Tgt Ion: 82 Resp: 673014
Ion Ratio Lower Upper
82 100
128 46.9 36.5 54.7
54 43.4 33.4 50.2



#37
2-Methylnaphthalene
Concen: 2.224 ng
RT: 12.146 min Scan# 1540
Delta R.T. -0.012 min
Lab File: BP024428.D
Acq: 25 Apr 2025 18:32

Tgt Ion: 142 Resp: 59332
Ion Ratio Lower Upper
142 100
141 87.3 70.3 105.5
115 38.6 26.9 40.3

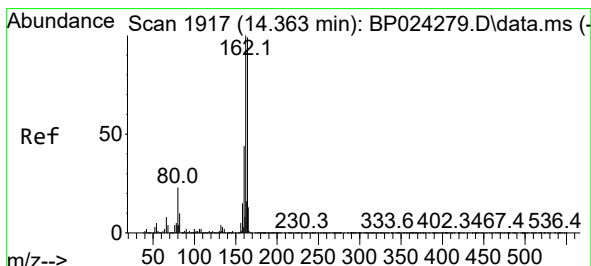
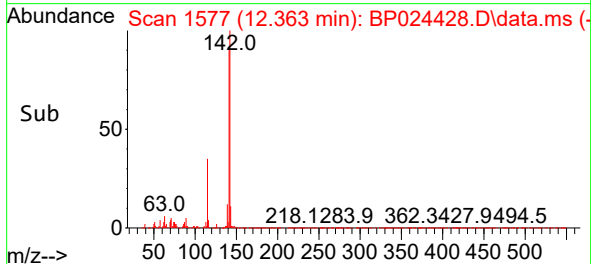
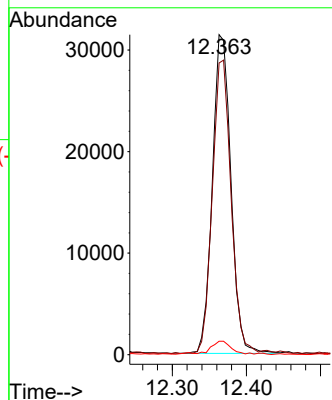
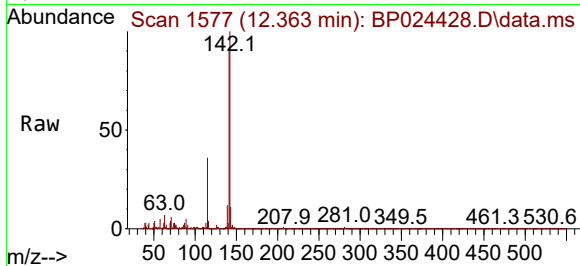




#38
1-Methylnaphthalene
Concen: 2.090 ng
RT: 12.363 min Scan# 11
Delta R.T. -0.012 min
Lab File: BP024428.D
Acq: 25 Apr 2025 18:32

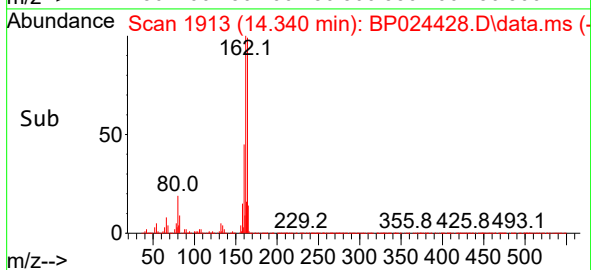
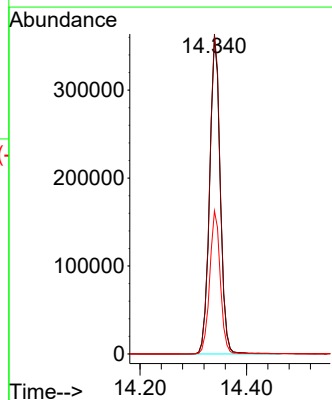
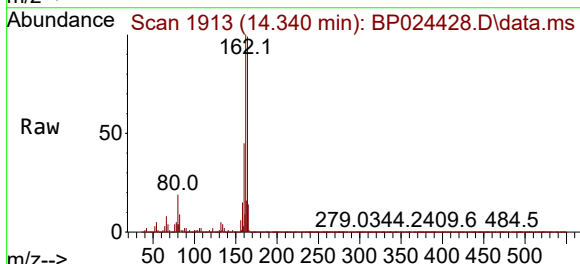
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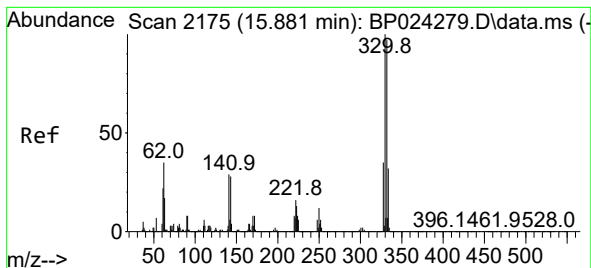
Tgt Ion:142 Resp: 54552
Ion Ratio Lower Upper
142 100
141 91.2 73.6 110.4
116 4.2 3.0 4.6



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.340 min Scan# 1913
Delta R.T. -0.012 min
Lab File: BP024428.D
Acq: 25 Apr 2025 18:32

Tgt Ion:164 Resp: 497244
Ion Ratio Lower Upper
164 100
162 101.1 80.6 120.8
160 45.2 35.3 52.9

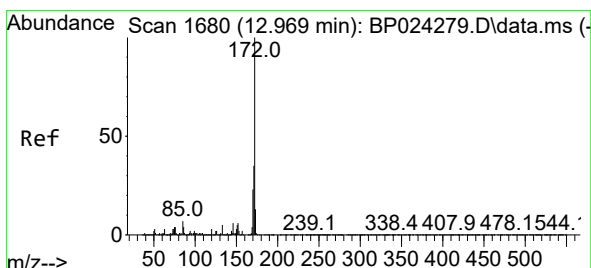
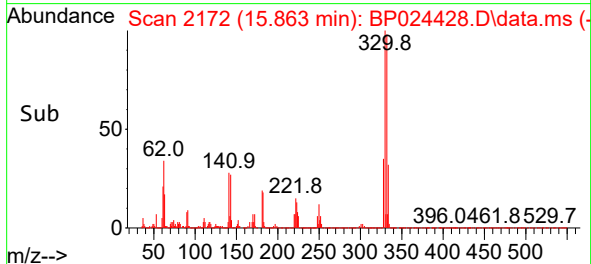
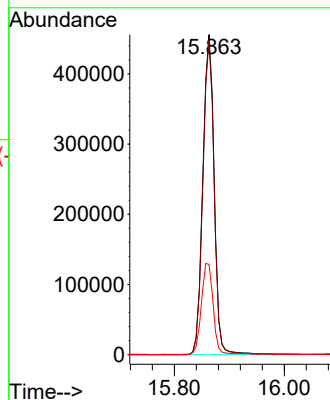
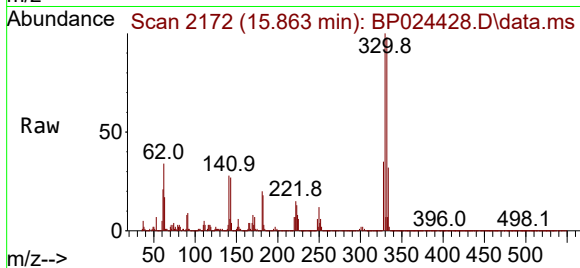




#42
2,4,6-Tribromophenol
Concen: 95.353 ng
RT: 15.863 min Scan# 2172
Delta R.T. 0.000 min
Lab File: BP024428.D
Acq: 25 Apr 2025 18:32

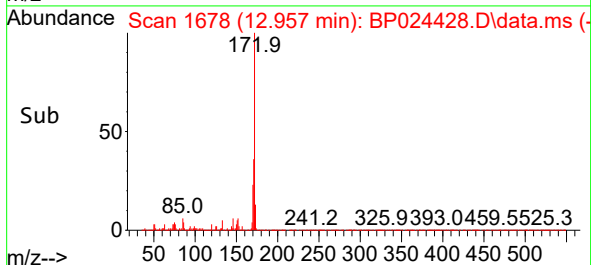
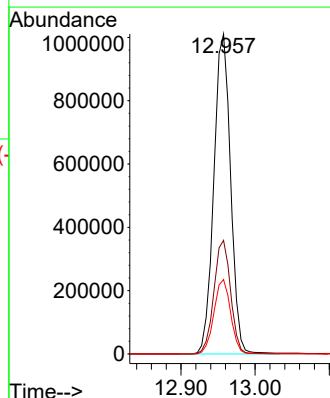
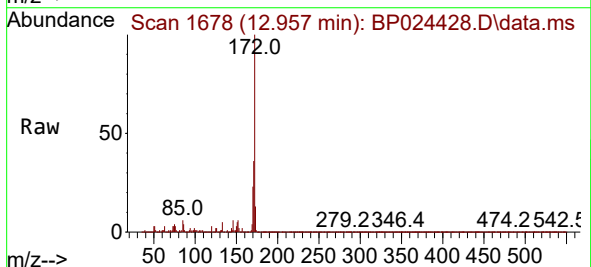
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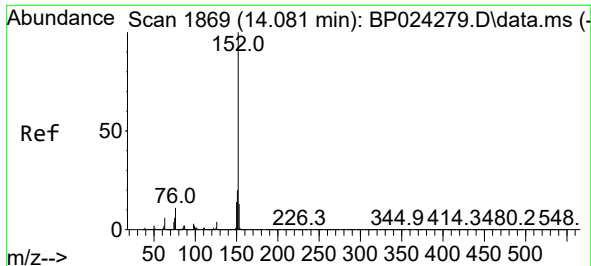
Tgt Ion:330 Resp: 655995
Ion Ratio Lower Upper
330 100
332 97.3 77.1 115.7
141 29.3 24.7 37.1



#45
2-Fluorobiphenyl
Concen: 48.925 ng
RT: 12.957 min Scan# 1678
Delta R.T. -0.006 min
Lab File: BP024428.D
Acq: 25 Apr 2025 18:32

Tgt Ion:172 Resp: 1588895
Ion Ratio Lower Upper
172 100
171 35.5 28.2 42.2
170 23.3 18.6 27.8

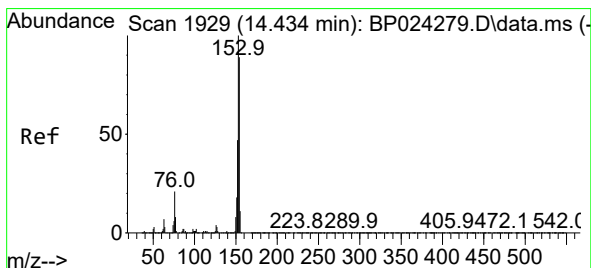
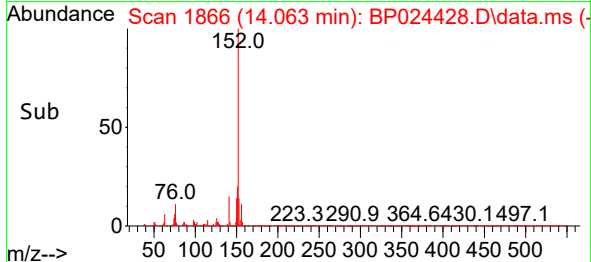
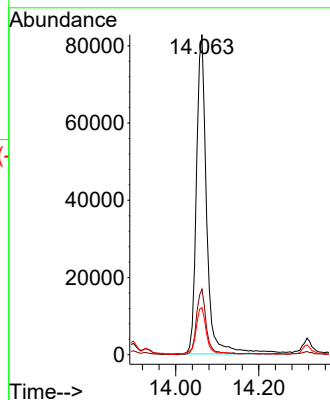
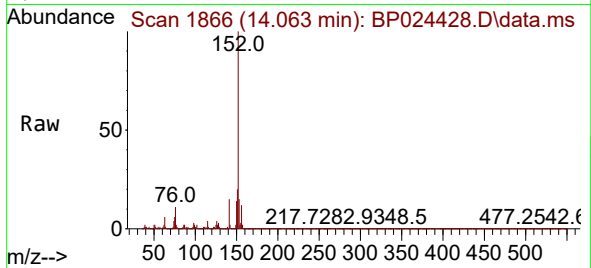




#49
Acenaphthylene
Concen: 3.290 ng
RT: 14.063 min Scan# 1866
Delta R.T. -0.006 min
Lab File: BP024428.D
Acq: 25 Apr 2025 18:32

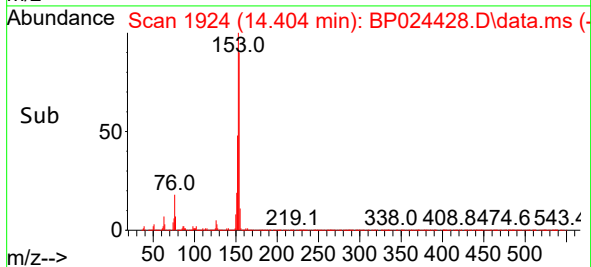
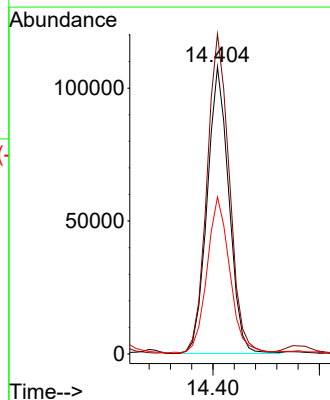
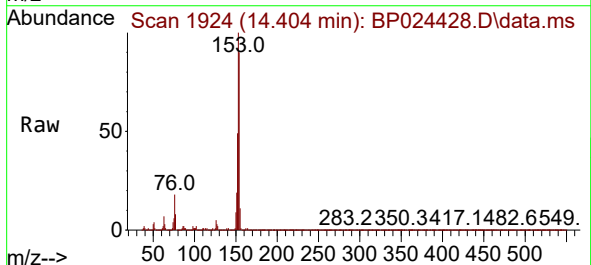
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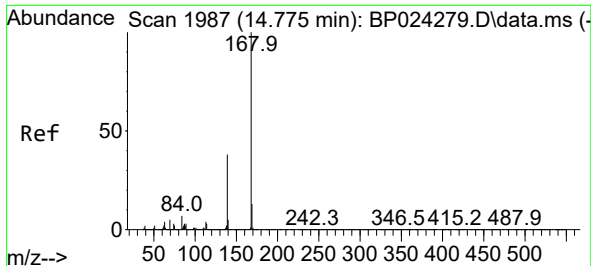
Tgt Ion:152 Resp: 141481
Ion Ratio Lower Upper
152 100
151 20.5 15.9 23.9
153 14.7 10.6 15.8



#52
Acenaphthene
Concen: 5.610 ng
RT: 14.404 min Scan# 1924
Delta R.T. -0.018 min
Lab File: BP024428.D
Acq: 25 Apr 2025 18:32

Tgt Ion:154 Resp: 152960
Ion Ratio Lower Upper
154 100
153 111.4 89.8 134.6
152 54.7 42.6 63.8

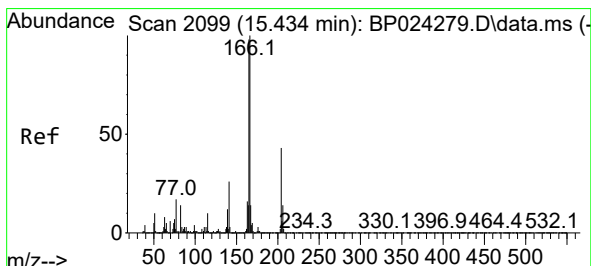
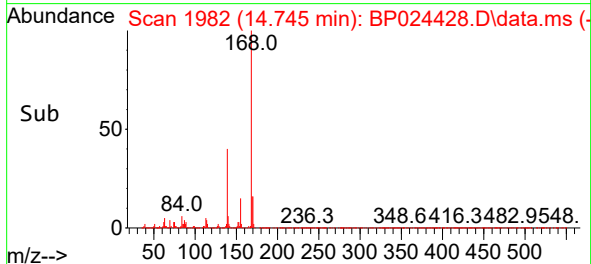
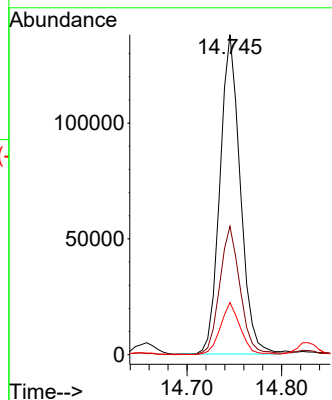
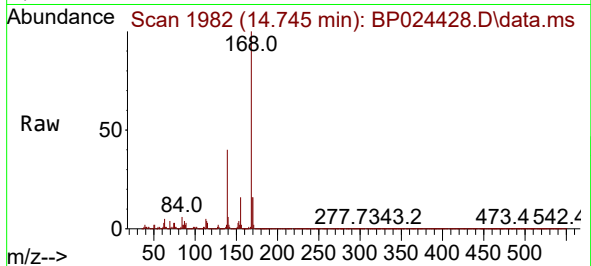




#55
Dibenzenofuran
Concen: 4.627 ng
RT: 14.745 min Scan# 1987
Delta R.T. -0.012 min
Lab File: BP024428.D
Acq: 25 Apr 2025 18:32

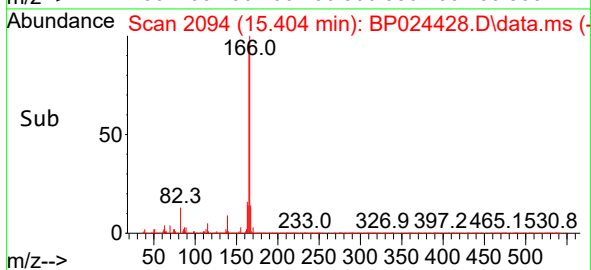
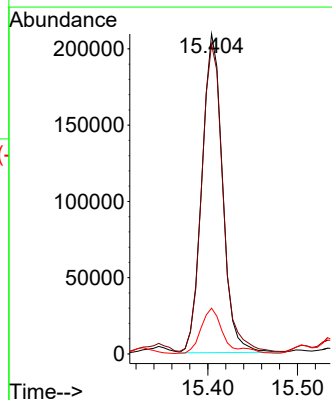
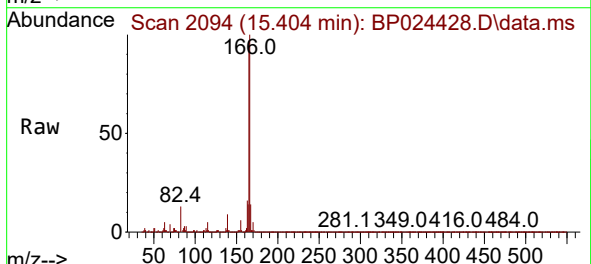
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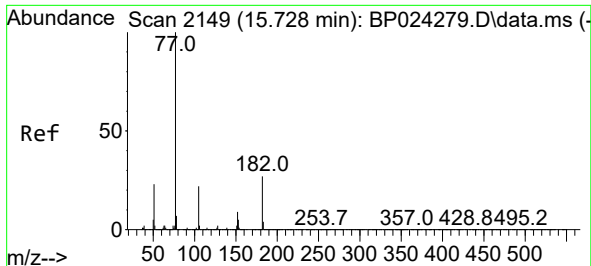
Tgt Ion:168 Resp: 206225
Ion Ratio Lower Upper
168 100
139 40.1 30.3 45.5
169 16.3 10.6 16.0#



#58
Fluorene
Concen: 9.662 ng
RT: 15.404 min Scan# 2094
Delta R.T. -0.012 min
Lab File: BP024428.D
Acq: 25 Apr 2025 18:32

Tgt Ion:166 Resp: 333359
Ion Ratio Lower Upper
166 100
165 96.8 78.1 117.1
167 14.3 10.9 16.3

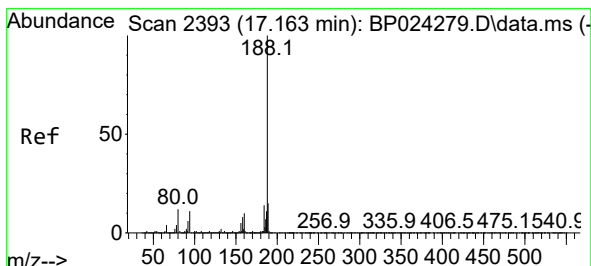
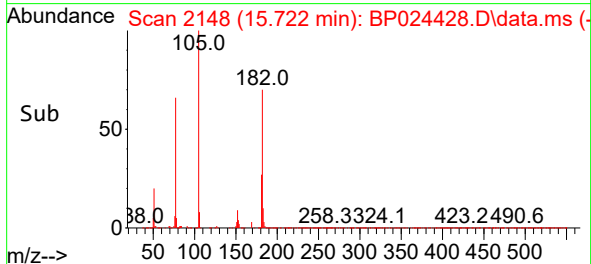
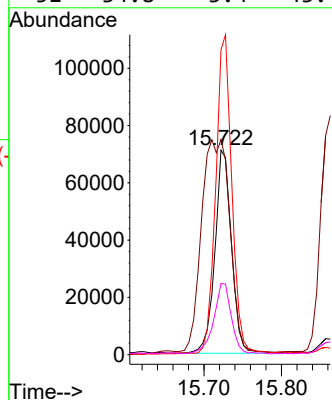
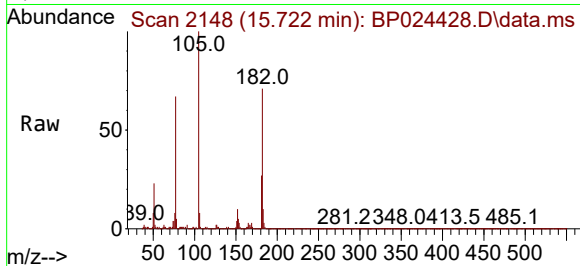




#63
Azobenzene
Concen: 3.099 ng
RT: 15.722 min Scan# 2149
Delta R.T. 0.012 min
Lab File: BP024428.D
Acq: 25 Apr 2025 18:32

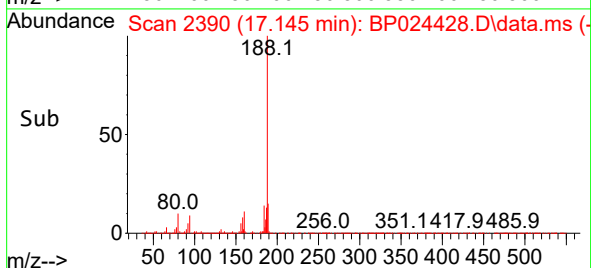
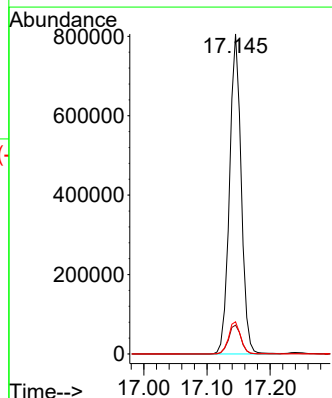
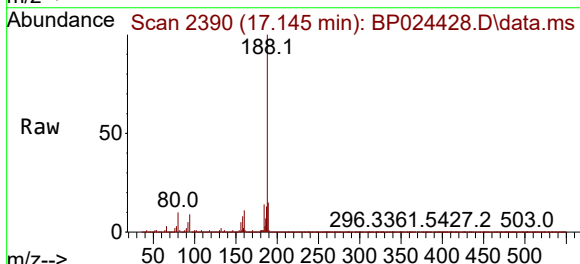
Instrument :
BNA_P
ClientSampleId :
MH-B

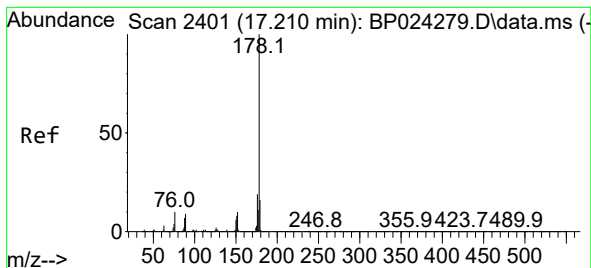
Tgt Ion: 77	Resp: 106133
Ion Ratio	Lower Upper
77	100
182	105.3 7.3 47.3#
105	149.1 2.3 42.3#
51	34.8 3.4 43.4



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.145 min Scan# 2390
Delta R.T. 0.000 min
Lab File: BP024428.D
Acq: 25 Apr 2025 18:32

Tgt Ion: 188	Resp: 1031092
Ion Ratio	Lower Upper
188	100
94	9.0 8.6 13.0
80	10.1 9.8 14.6





#71

Phenanthrene

Concen: 65.366 ng

RT: 17.186 min Scan# 2401

Delta R.T. -0.006 min

Lab File: BP024428.D

Acq: 25 Apr 2025 18:32

Instrument :

BNA_P

ClientSampleId :

MH-B

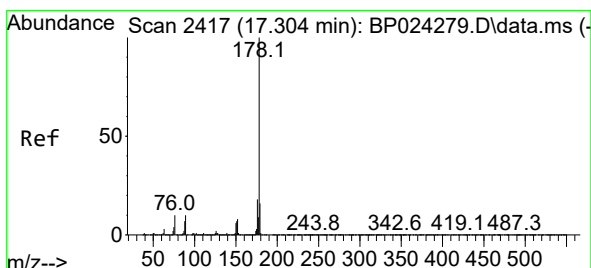
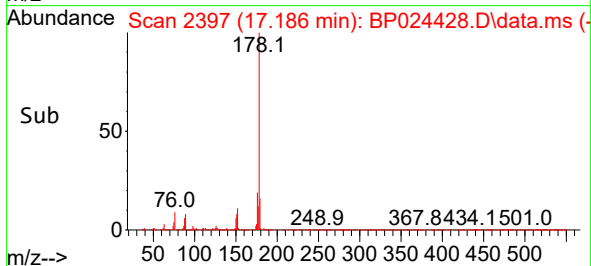
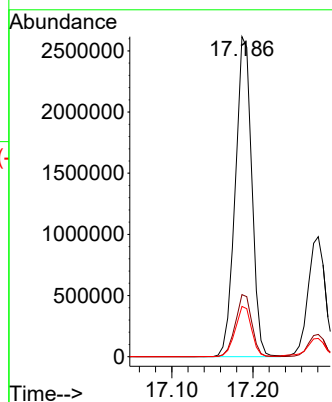
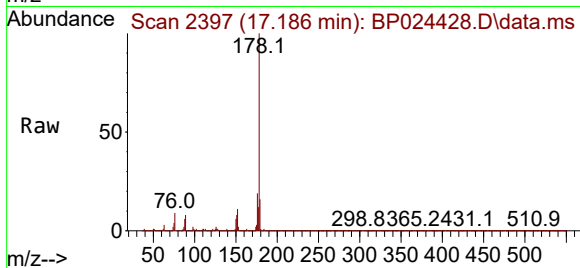
Tgt Ion:178 Resp: 3676749

Ion Ratio Lower Upper

178 100

176 19.4 15.4 23.0

179 15.7 12.5 18.7



#72

Anthracene

Concen: 26.213 ng

RT: 17.281 min Scan# 2413

Delta R.T. -0.006 min

Lab File: BP024428.D

Acq: 25 Apr 2025 18:32

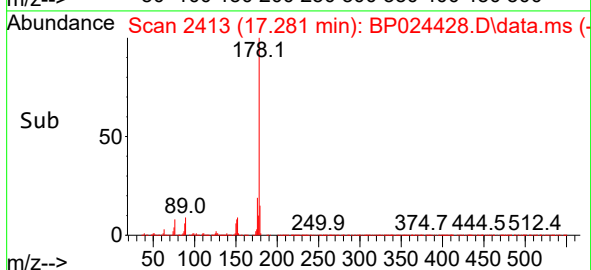
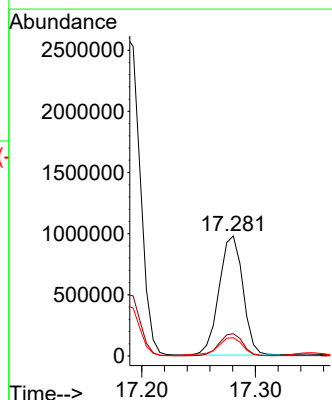
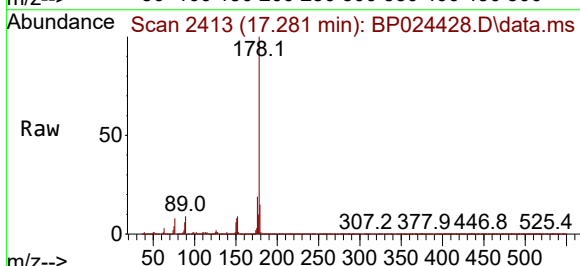
Tgt Ion:178 Resp: 1421075

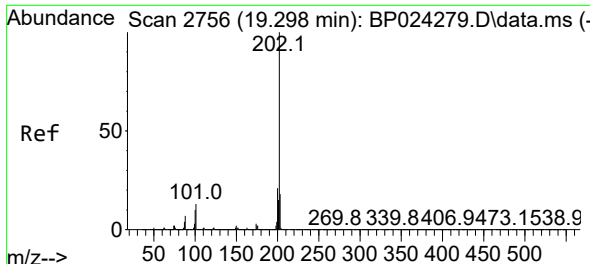
Ion Ratio Lower Upper

178 100

176 18.6 14.7 22.1

179 15.2 12.4 18.6

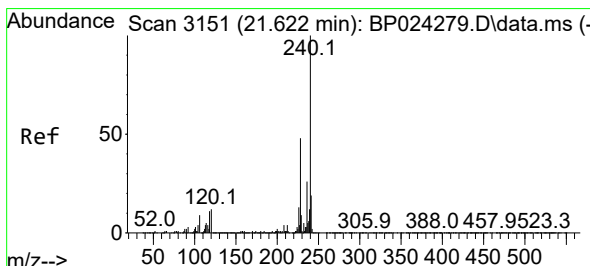
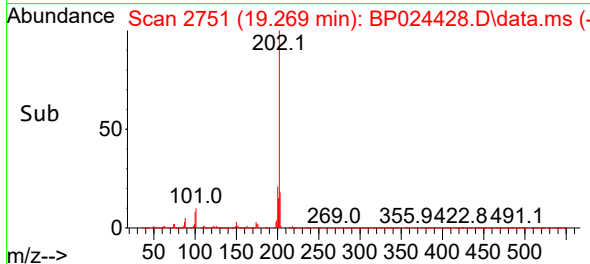
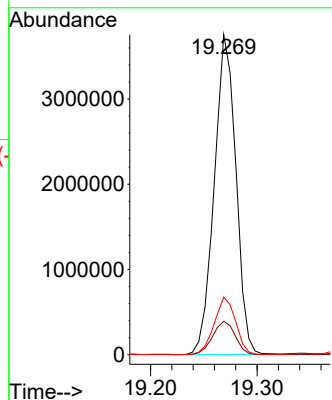
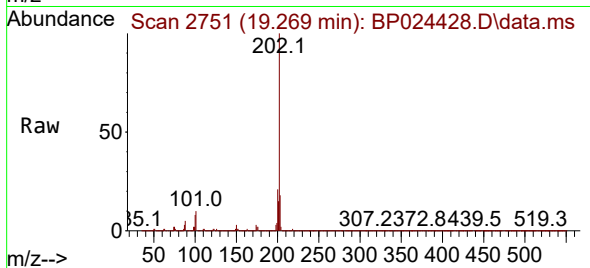




#75
Fluoranthene
Concen: 79.115 ng
RT: 19.269 min Scan# 21
Delta R.T. -0.012 min
Lab File: BP024428.D
Acq: 25 Apr 2025 18:32

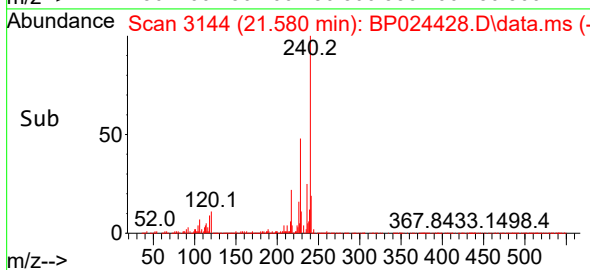
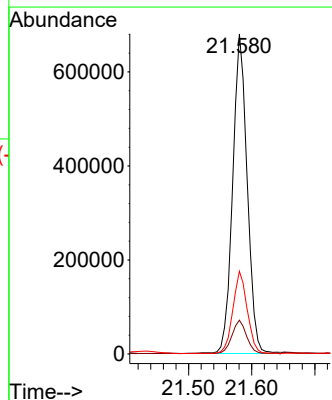
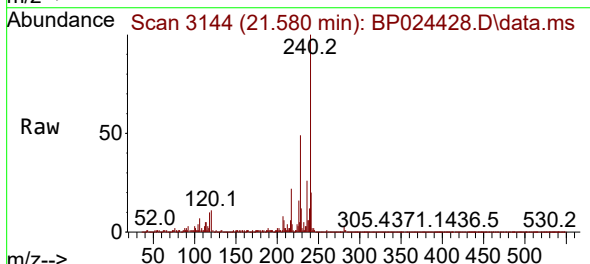
Instrument :
BNA_P
ClientSampleId :
MH-B

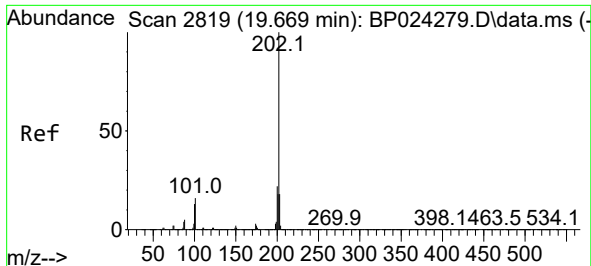
Tgt Ion:202 Resp: 5292722
Ion Ratio Lower Upper
202 100
101 10.5 0.0 33.2
203 18.0 0.0 37.7



#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.580 min Scan# 3144
Delta R.T. -0.012 min
Lab File: BP024428.D
Acq: 25 Apr 2025 18:32

Tgt Ion:240 Resp: 1083711
Ion Ratio Lower Upper
240 100
120 10.6 9.8 14.8
236 25.9 20.9 31.3

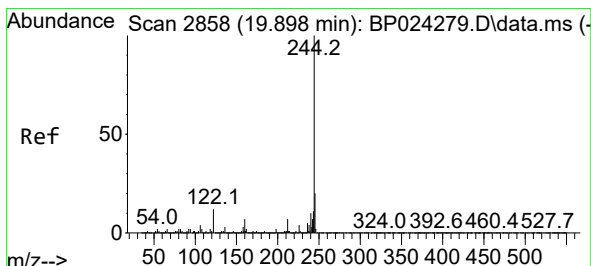
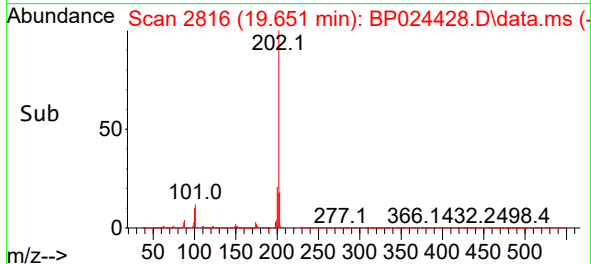
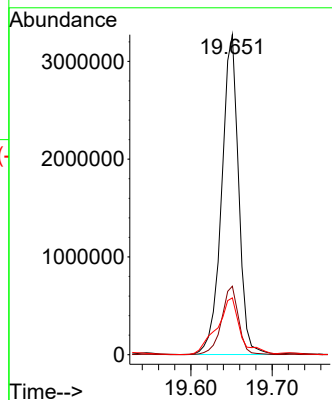
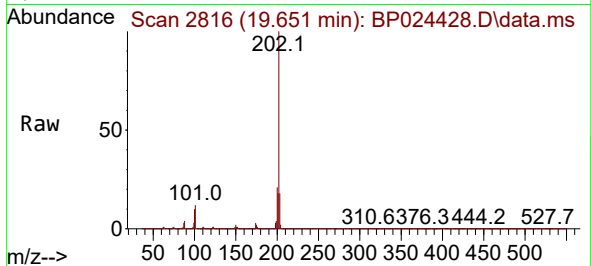




#78
Pyrene
Concen: 69.065 ng
RT: 19.651 min Scan# 2816
Delta R.T. 0.000 min
Lab File: BP024428.D
Acq: 25 Apr 2025 18:32

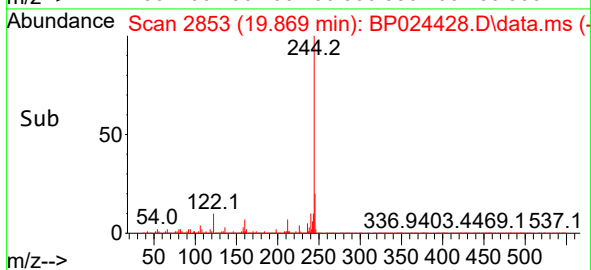
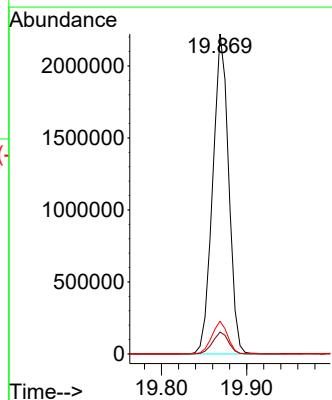
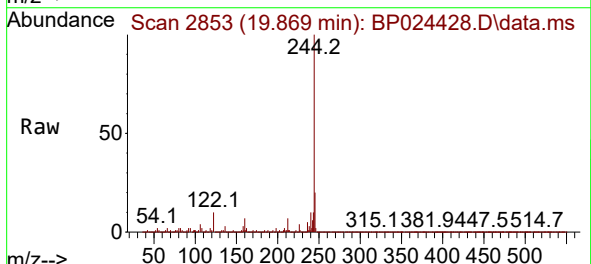
Instrument :
BNA_P
ClientSampleId :
MH-B

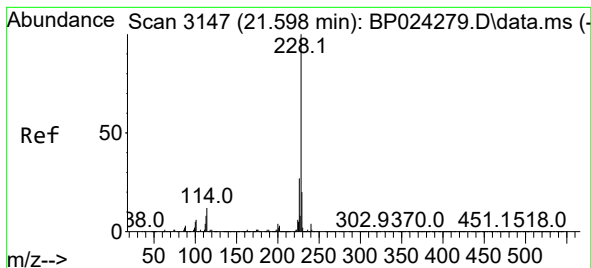
Tgt Ion:202 Resp: 4756583
Ion Ratio Lower Upper
202 100
200 21.4 17.2 25.8
203 17.8 14.4 21.6



#79
Terphenyl-d14
Concen: 53.661 ng
RT: 19.869 min Scan# 2853
Delta R.T. -0.006 min
Lab File: BP024428.D
Acq: 25 Apr 2025 18:32

Tgt Ion:244 Resp: 2885097
Ion Ratio Lower Upper
244 100
212 6.8 5.6 8.4
122 10.2 9.4 14.0





#81

Benzo(a)anthracene

Concen: 36.958 ng

RT: 21.563 min Scan# 3141

Delta R.T. -0.006 min

Lab File: BP024428.D

Acq: 25 Apr 2025 18:32

Instrument :

BNA_P

ClientSampleId :

MH-B

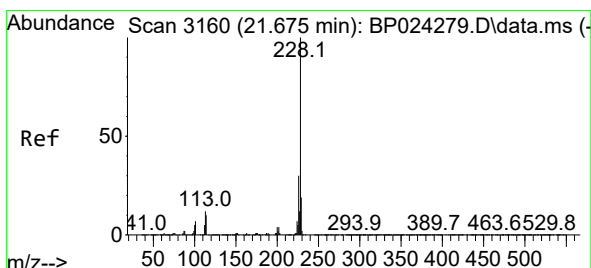
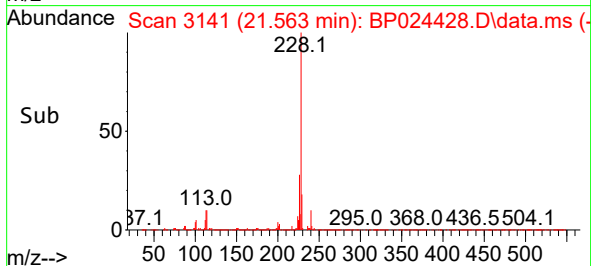
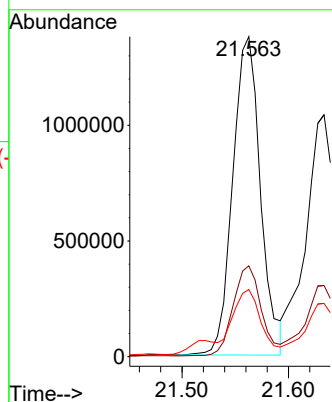
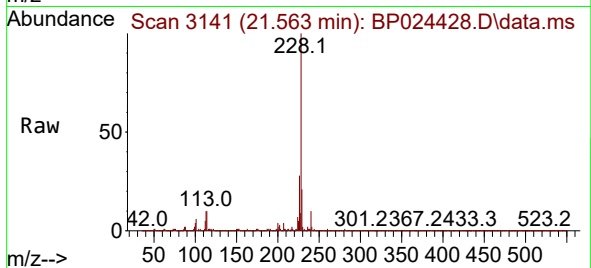
Tgt Ion:228 Resp: 2489472

Ion Ratio Lower Upper

228 100

226 28.4 21.8 32.8

229 21.0 15.9 23.9



#83

Chrysene

Concen: 31.186 ng

RT: 21.633 min Scan# 3153

Delta R.T. -0.006 min

Lab File: BP024428.D

Acq: 25 Apr 2025 18:32

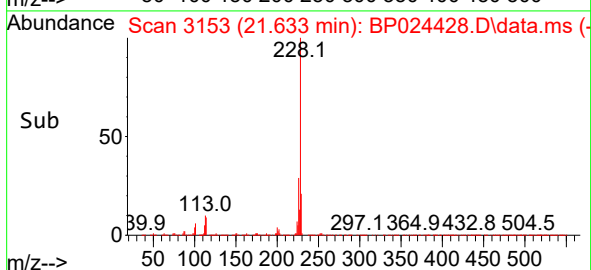
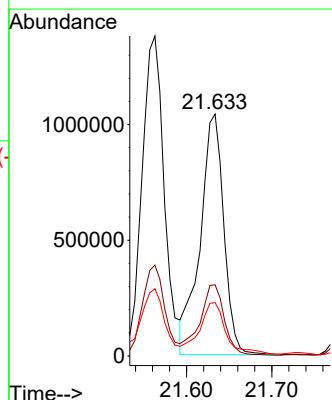
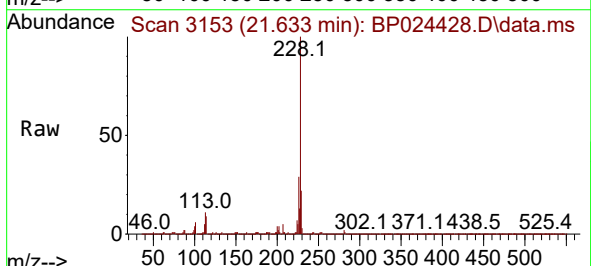
Tgt Ion:228 Resp: 2012553

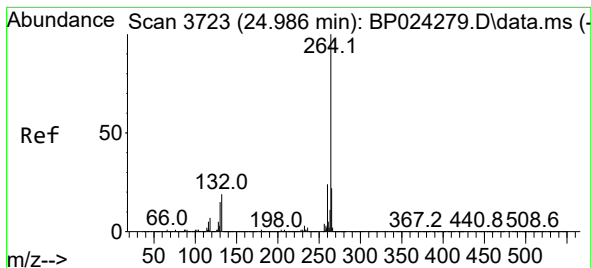
Ion Ratio Lower Upper

228 100

226 29.5 24.2 36.2

229 22.0 15.6 23.4





#86

Perylene-d12

Concen: 20.000 ng

RT: 24.915 min Scan# 31

Delta R.T. -0.018 min

Lab File: BP024428.D

Acq: 25 Apr 2025 18:32

Instrument :

BNA_P

ClientSampleId :

MH-B

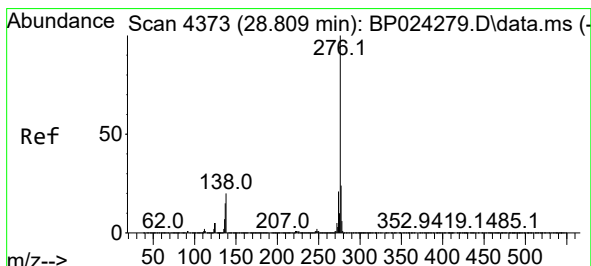
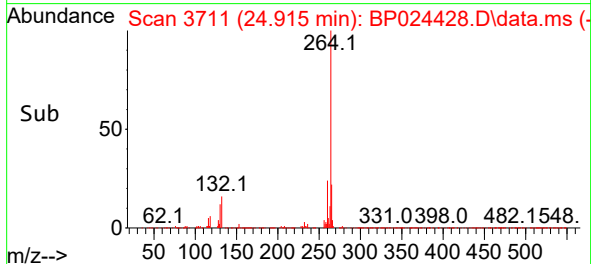
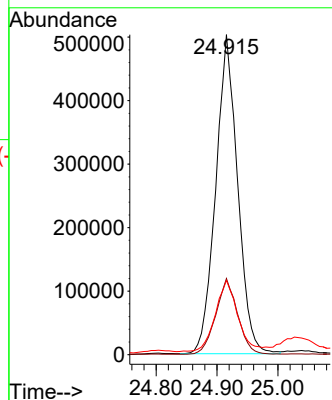
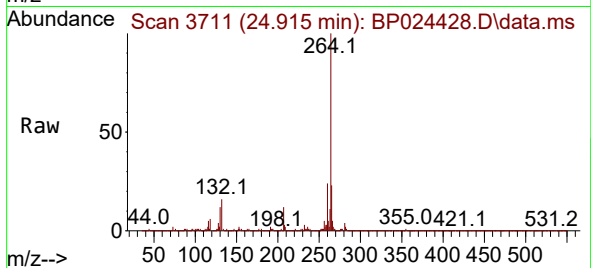
Tgt Ion:264 Resp: 1255341

Ion Ratio Lower Upper

264 100

260 23.8 18.9 28.3

265 23.3 17.8 26.6



#87

Indeno(1,2,3-cd)pyrene

Concen: 17.113 ng

RT: 28.704 min Scan# 4355

Delta R.T. -0.035 min

Lab File: BP024428.D

Acq: 25 Apr 2025 18:32

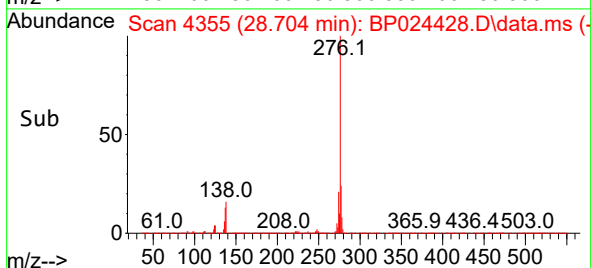
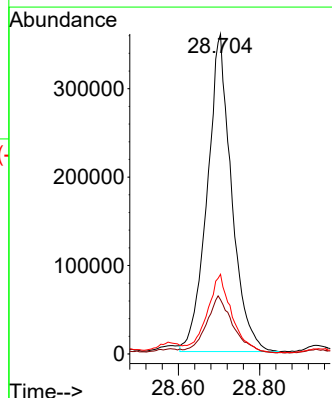
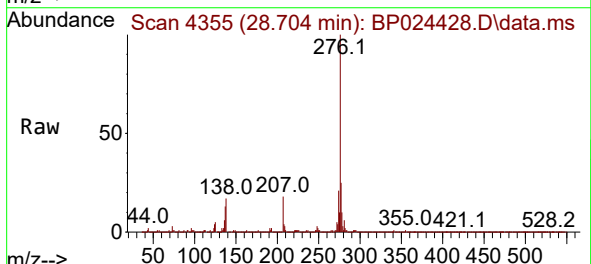
Tgt Ion:276 Resp: 1491444

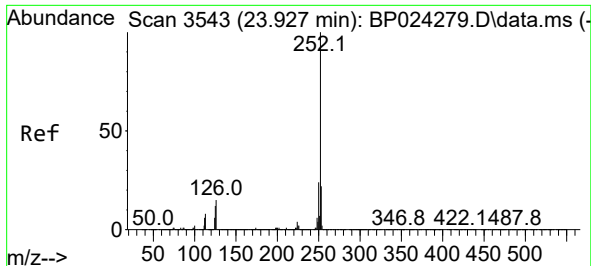
Ion Ratio Lower Upper

276 100

138 19.5 14.5 21.7

277 25.2 20.2 30.2

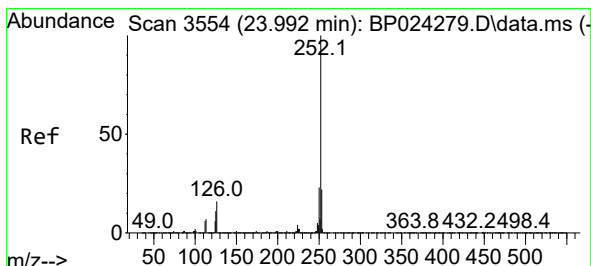
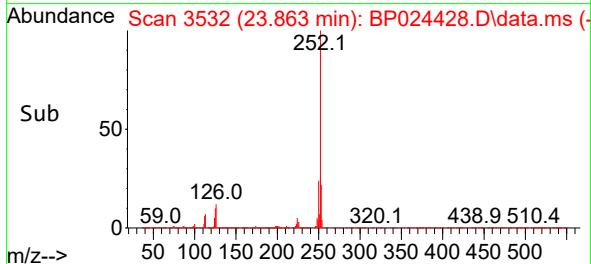
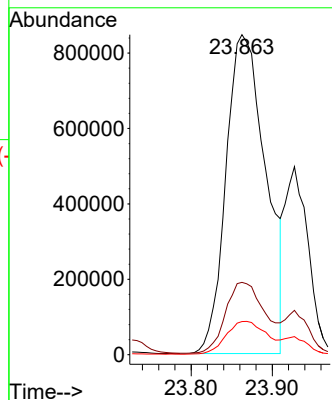
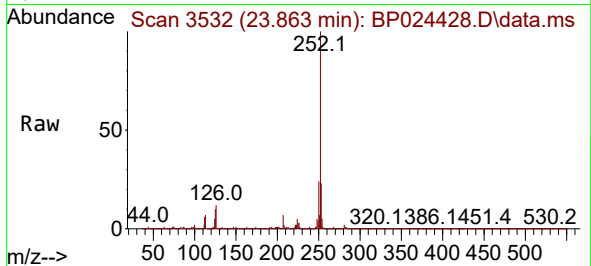




#88
Benzo(b)fluoranthene
Concen: 38.384 ng
RT: 23.863 min Scan# 3532
Delta R.T. -0.023 min
Lab File: BP024428.D
Acq: 25 Apr 2025 18:32

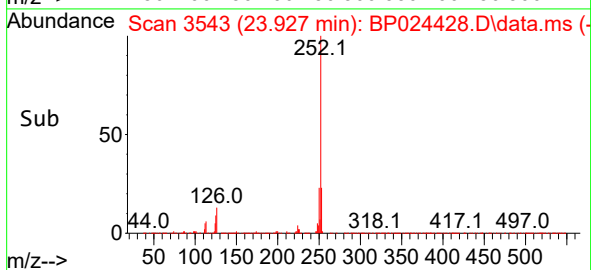
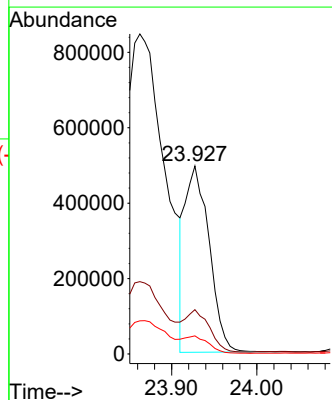
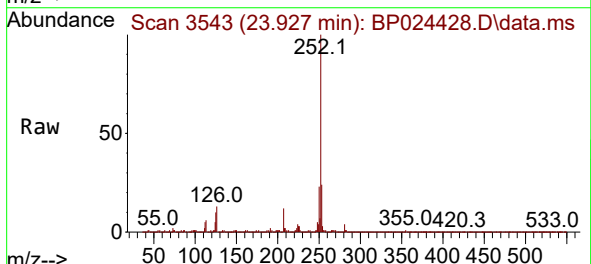
Instrument :
BNA_P
ClientSampleId :
MH-B

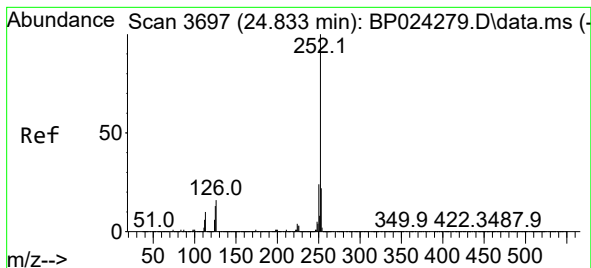
Tgt Ion:252 Resp: 2888221
Ion Ratio Lower Upper
252 100
253 22.6 17.7 26.5
125 10.3 9.4 14.0



#89
Benzo(k)fluoranthene
Concen: 13.319 ng
RT: 23.927 min Scan# 3543
Delta R.T. -0.029 min
Lab File: BP024428.D
Acq: 25 Apr 2025 18:32

Tgt Ion:252 Resp: 968047
Ion Ratio Lower Upper
252 100
253 23.6 17.7 26.5
125 9.6 9.1 13.7





#90

Benzo(a)pyrene

Concen: 35.585 ng

RT: 24.757 min Scan# 3

Delta R.T. -0.023 min

Lab File: BP024428.D

Acq: 25 Apr 2025 18:32

Instrument :

BNA_P

ClientSampleId :

MH-B

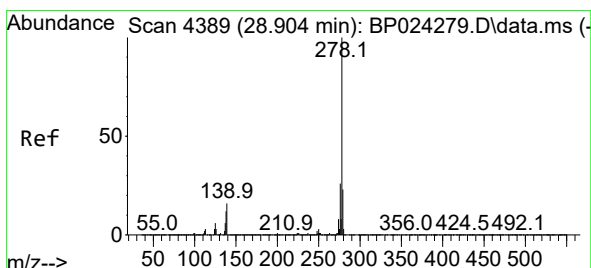
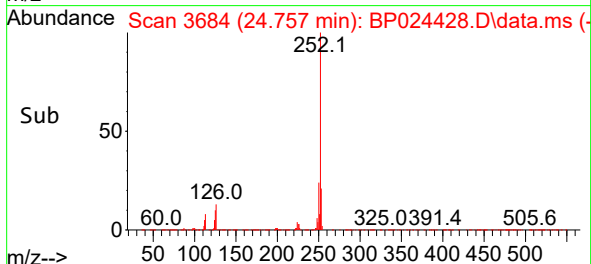
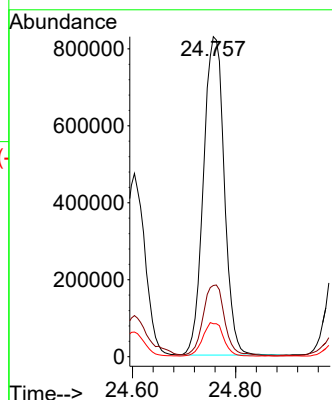
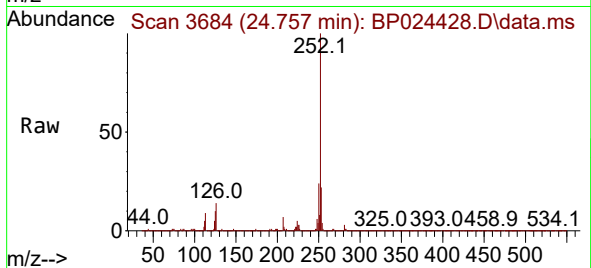
Tgt Ion:252 Resp: 2309716

Ion Ratio Lower Upper

252 100

253 22.3 17.6 26.4

125 10.3 10.1 15.1



#91

Dibenzo(a,h)anthracene

Concen: 5.291 ng

RT: 28.768 min Scan# 4366

Delta R.T. -0.035 min

Lab File: BP024428.D

Acq: 25 Apr 2025 18:32

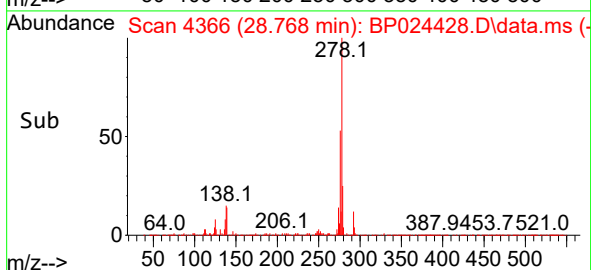
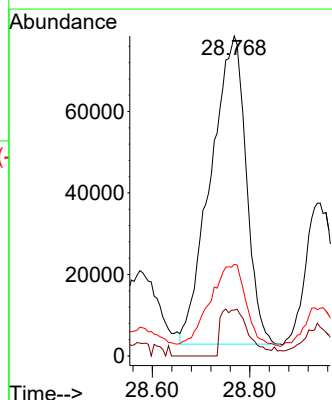
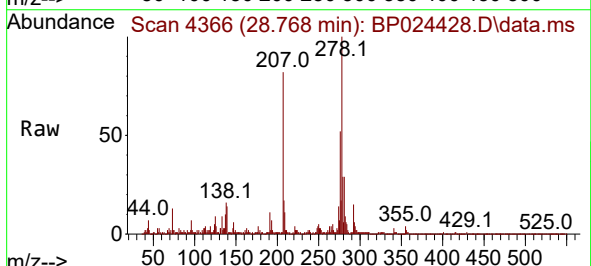
Tgt Ion:278 Resp: 382753

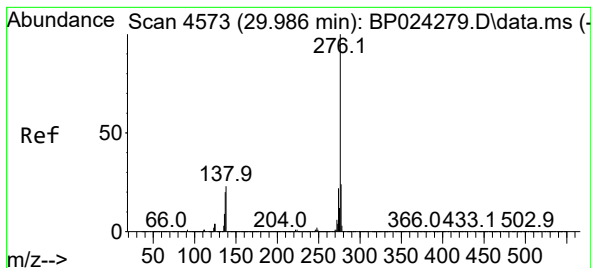
Ion Ratio Lower Upper

278 100

139 14.4 12.6 19.0

279 28.6 18.5 27.7#





#92

Benzo(g,h,i)perylene

Concen: 18.992 ng

RT: 29.856 min Scan# 4

Delta R.T. -0.041 min

Lab File: BP024428.D

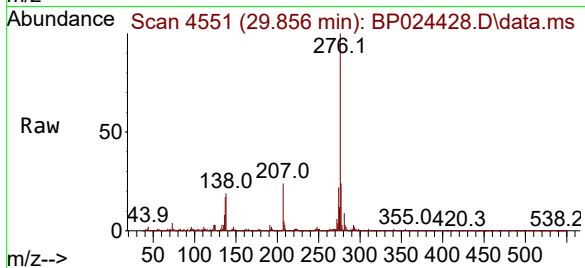
Acq: 25 Apr 2025 18:32

Instrument :

BNA_P

ClientSampleId :

MH-B



Tgt Ion:276 Resp: 1398409

Ion Ratio Lower Upper

276 100

277 24.0 18.9 28.3

138 18.7 18.7 28.1

