

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP050225\
 Data File : BP024520.D
 Acq On : 02 May 2025 22:27
 Operator : RC/JU
 Sample : Q1914-07
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 SS-6

Quant Time: May 03 00:09:44 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)

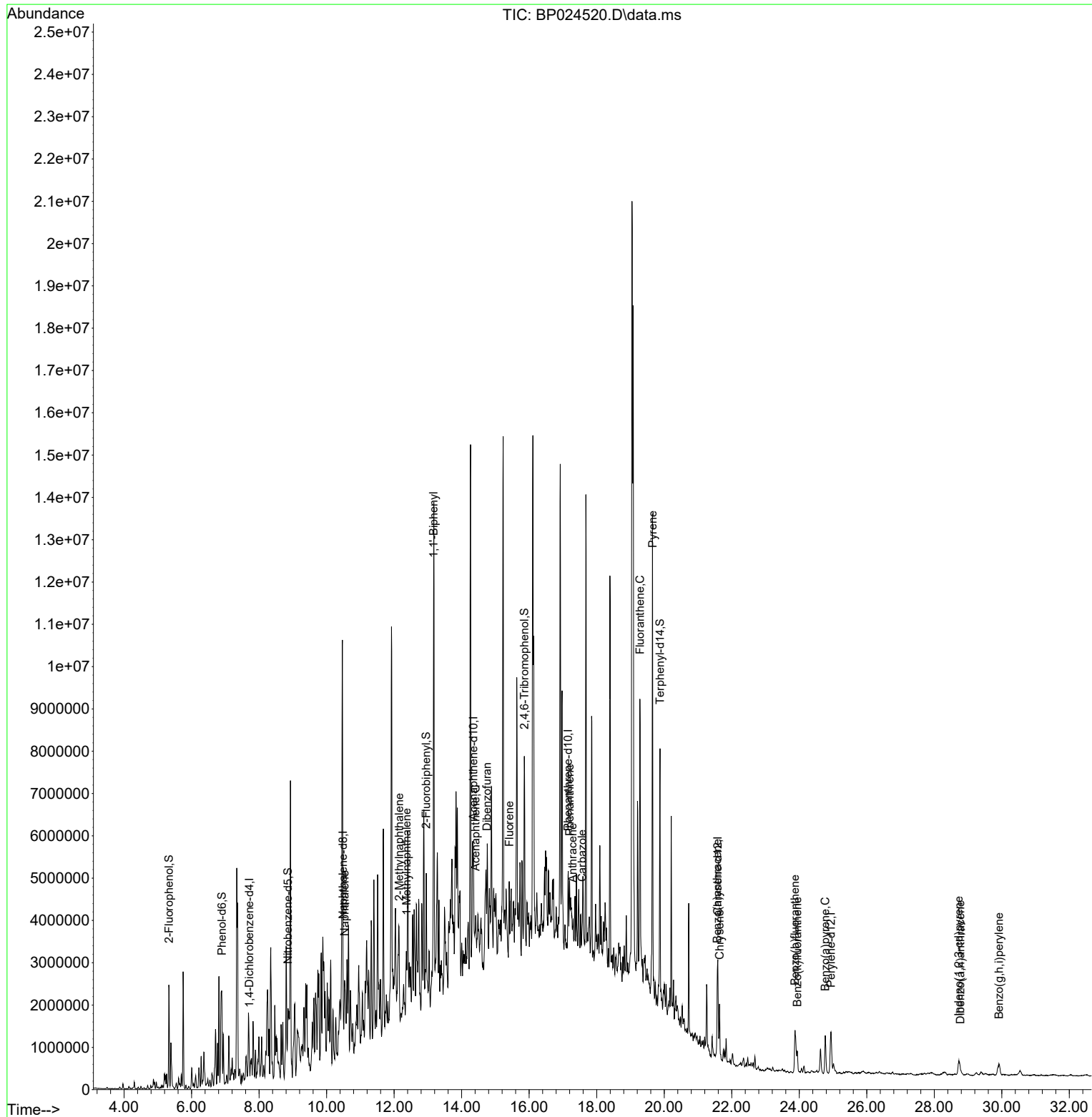
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.711	152	170544	20.000	ng	-0.01
21) Naphthalene-d8	10.487	136	657655	20.000	ng	#-0.01
39) Acenaphthene-d10	14.351	164	442093	20.000	ng	0.00
64) Phenanthrene-d10	17.151	188	835247	20.000	ng	0.00
76) Chrysene-d12	21.586	240	983824	20.000	ng	# 0.00
86) Perylene-d12	24.939	264	1181270	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.334	112	895731	86.843	ng	-0.01
7) Phenol-d6	6.899	99	1132776	80.206	ng	-0.01
23) Nitrobenzene-d5	8.858	82	743467	64.461	ng	-0.01
42) 2,4,6-Tribromophenol	15.863	330	704630	115.200	ng	0.00
45) 2-Fluorobiphenyl	12.951	172	1661684	57.549	ng	-0.01
79) Terphenyl-d14	19.875	244	2850305	58.396	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	10.534	128	440408	12.713	ng	# 81
37) 2-Methylnaphthalene	12.152	142	797946	33.213	ng	95
38) 1-Methylnaphthalene	12.369	142	489543	20.829	ng	# 99
46) 1,1'-Biphenyl	13.169	154	202455	6.230	ng	95
52) Acenaphthene	14.416	154	227449	9.382	ng	95
55) Dibenzofuran	14.751	168	164037	4.140	ng	# 46
58) Fluorene	15.416	166	404599	13.190	ng	# 92
71) Phenanthrene	17.198	178	778011	17.075	ng	96
72) Anthracene	17.287	178	180095m	4.101	ng	
73) Carbazole	17.569	167	121421	2.830	ng	# 53
75) Fluoranthene	19.281	202	3473505	64.096	ng	96
78) Pyrene	19.657	202	2942248	47.059	ng	99
81) Benzo(a)anthracene	21.569	228	946151	15.472	ng	98
83) Chrysene	21.639	228	840423	14.345	ng	98
87) Indeno(1,2,3-cd)pyrene	28.727	276	572799	6.985	ng	99
88) Benzo(b)fluoranthene	23.874	252	1223565m	17.280	ng	
89) Benzo(k)fluoranthene	23.945	252	425501m	6.221	ng	
90) Benzo(a)pyrene	24.769	252	890340m	14.577	ng	
91) Dibenzo(a,h)anthracene	28.774	278	144382m	2.121	ng	
92) Benzo(g,h,i)perylene	29.915	276	538013	7.765	ng	95

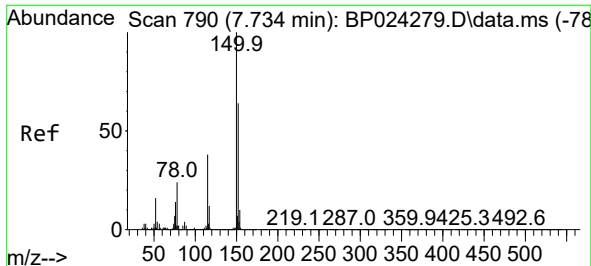
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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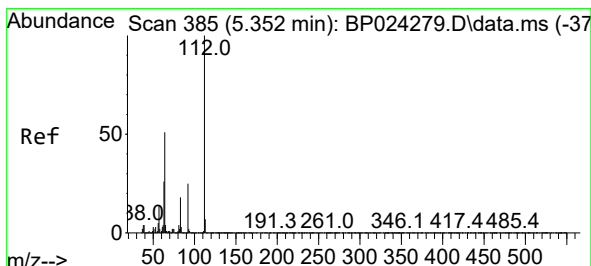
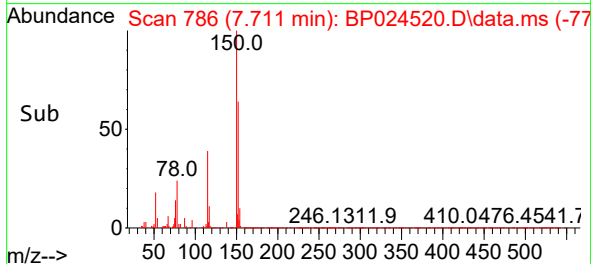
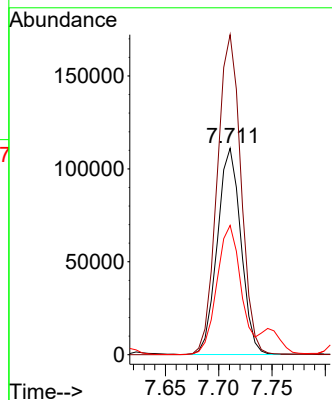
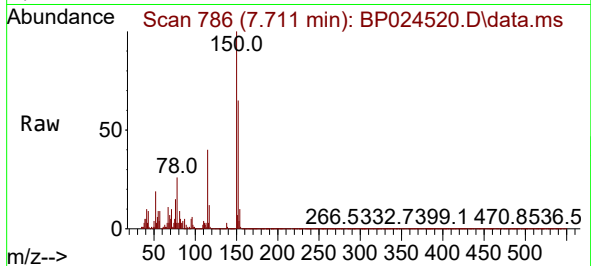




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.711 min Scan# 71
Delta R.T. -0.011 min
Lab File: BP024520.D
Acq: 02 May 2025 22:27

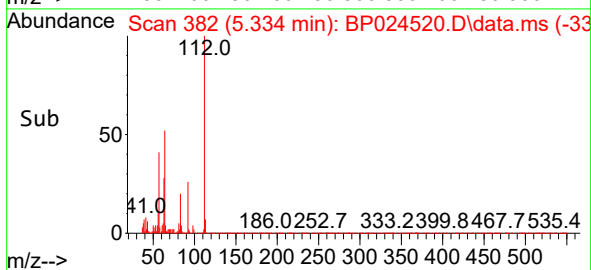
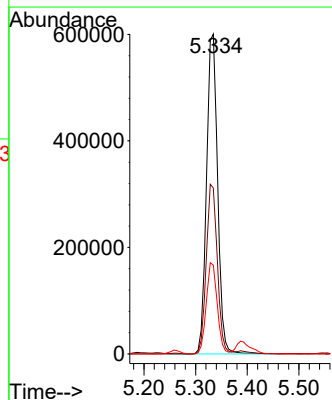
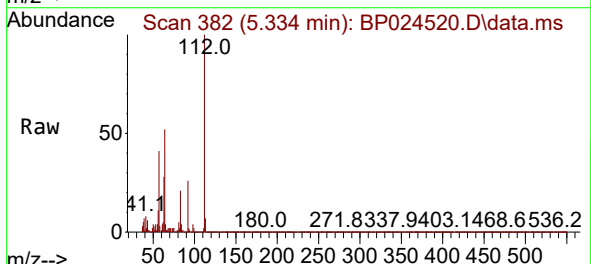
Instrument :
BNA_P
ClientSampleId :
SS-6

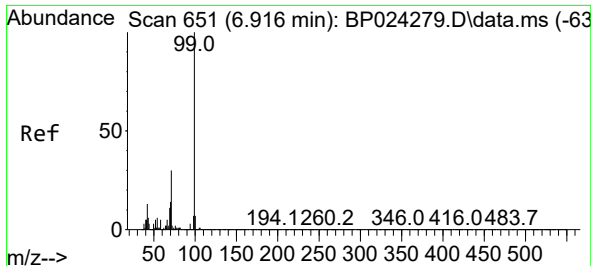
Tgt Ion:152 Resp: 170544
Ion Ratio Lower Upper
152 100
150 155.0 124.9 187.3
115 62.6 47.7 71.5



#5
2-Fluorophenol
Concen: 86.843 ng
RT: 5.334 min Scan# 382
Delta R.T. -0.012 min
Lab File: BP024520.D
Acq: 02 May 2025 22:27

Tgt Ion:112 Resp: 895731
Ion Ratio Lower Upper
112 100
64 51.9 41.1 61.7
63 27.8 20.6 30.8

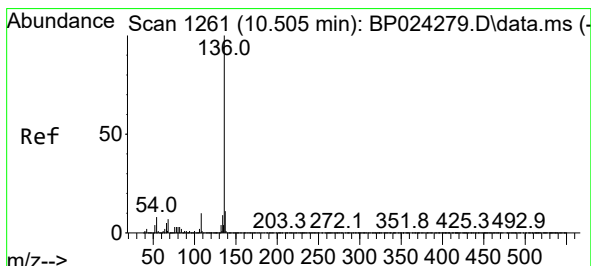
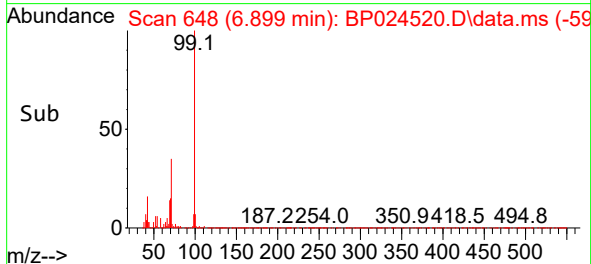
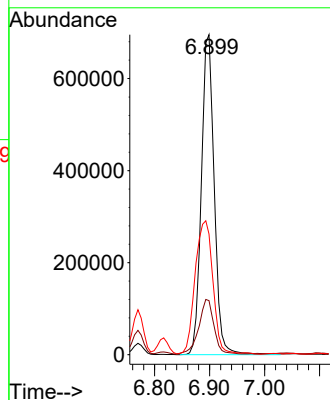
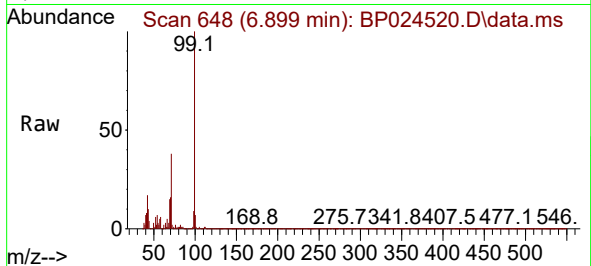




#7
Phenol-d6
Concen: 80.206 ng
RT: 6.899 min Scan# 64
Delta R.T. -0.012 min
Lab File: BP024520.D
Acq: 02 May 2025 22:27

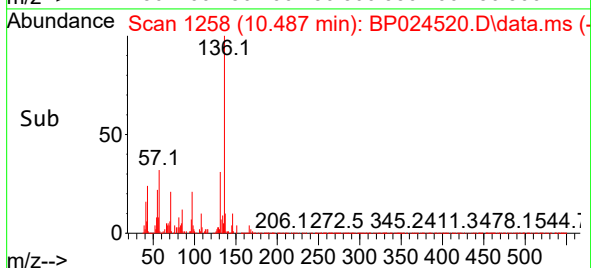
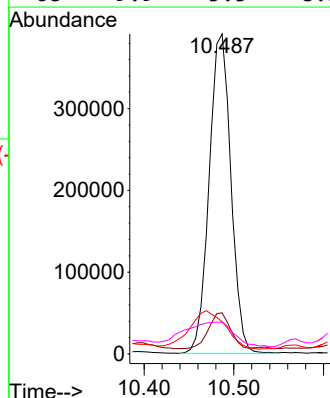
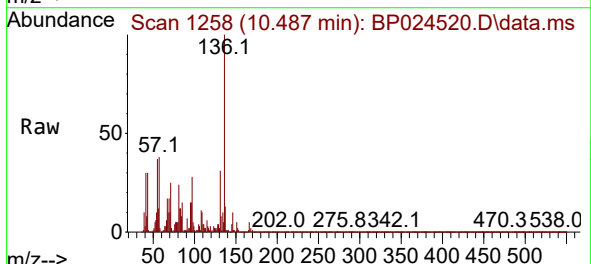
Instrument :
BNA_P
ClientSampleId :
SS-6

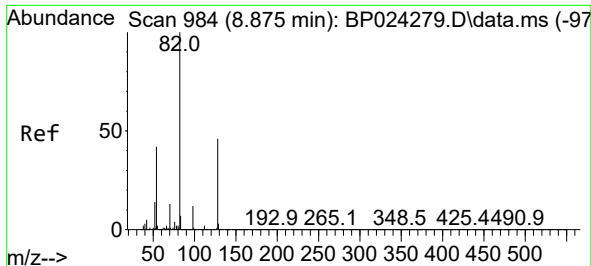
Tgt Ion: 99 Resp: 1132776
Ion Ratio Lower Upper
99 100
42 16.9 10.6 16.0#
71 37.7 23.7 35.5#



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.487 min Scan# 1258
Delta R.T. -0.012 min
Lab File: BP024520.D
Acq: 02 May 2025 22:27

Tgt Ion:136 Resp: 657655
Ion Ratio Lower Upper
136 100
137 12.9 9.2 13.8
54 10.1 6.0 9.0#
68 9.9 5.5 8.3#

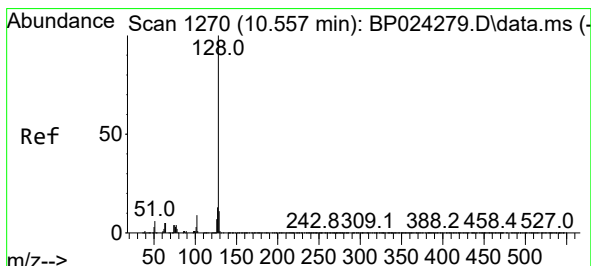
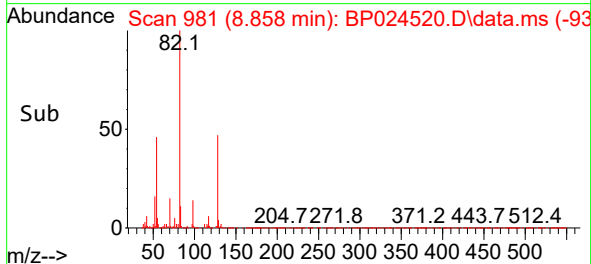
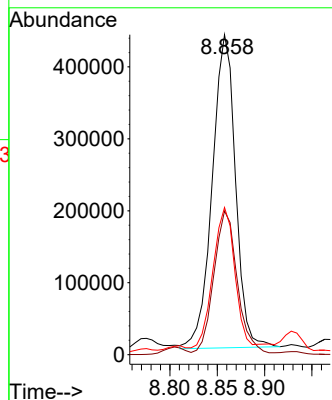
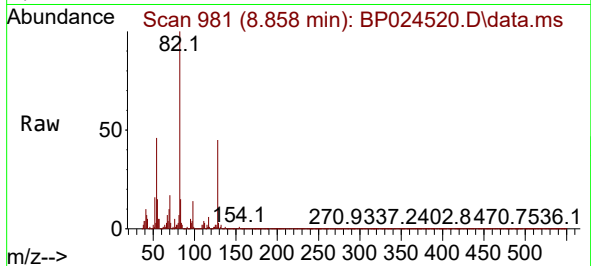




#23
Nitrobenzene-d5
Concen: 64.461 ng
RT: 8.858 min Scan# 91
Delta R.T. -0.012 min
Lab File: BP024520.D
Acq: 02 May 2025 22:27

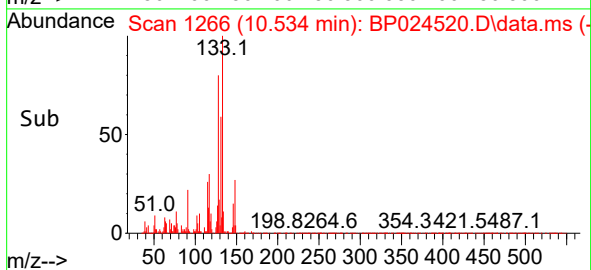
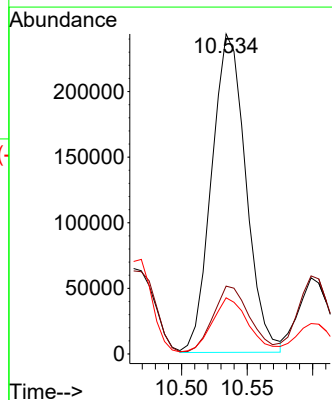
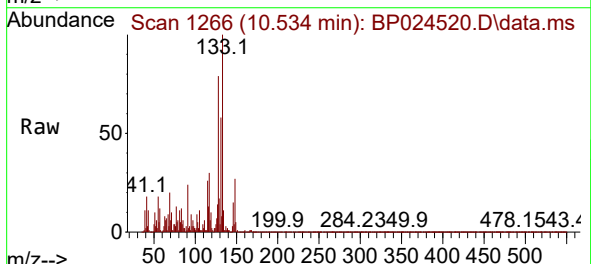
Instrument :
BNA_P
ClientSampleId :
SS-6

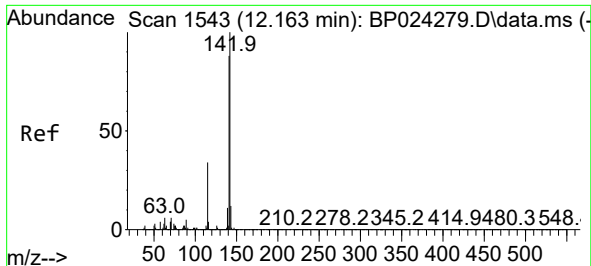
Tgt Ion: 82 Resp: 743467
Ion Ratio Lower Upper
82 100
128 44.9 36.5 54.7
54 46.0 33.4 50.2



#31
Naphthalene
Concen: 12.713 ng
RT: 10.534 min Scan# 1266
Delta R.T. -0.012 min
Lab File: BP024520.D
Acq: 02 May 2025 22:27

Tgt Ion:128 Resp: 440408
Ion Ratio Lower Upper
128 100
129 21.2 8.6 13.0#
127 17.6 10.3 15.5#

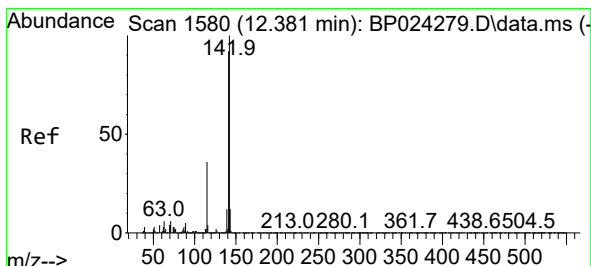
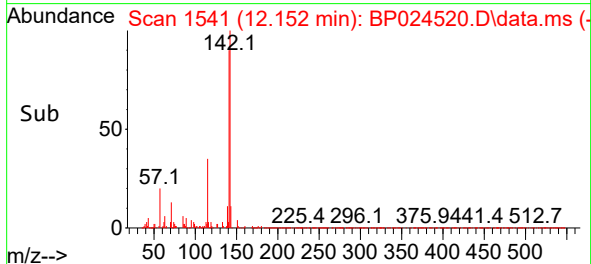
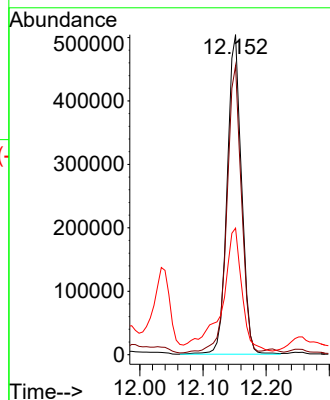
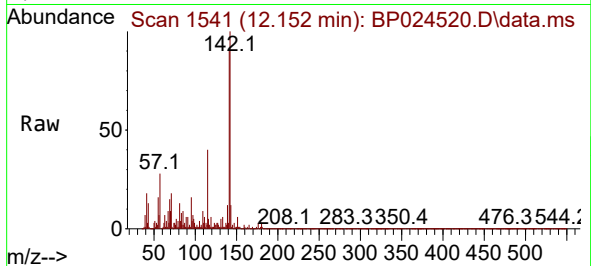




#37
2-Methylnaphthalene
Concen: 33.213 ng
RT: 12.152 min Scan# 1541
Delta R.T. -0.006 min
Lab File: BP024520.D
Acq: 02 May 2025 22:27

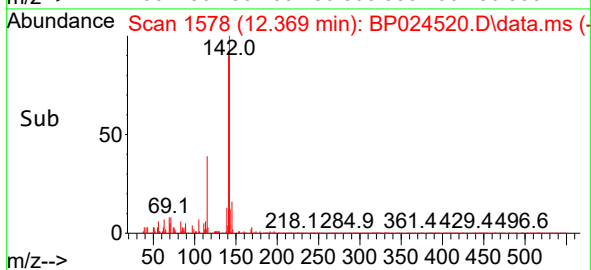
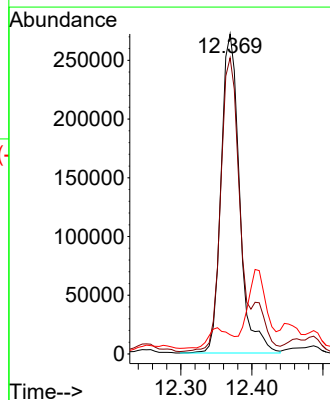
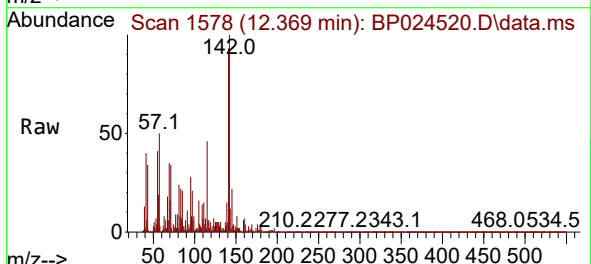
Instrument :
BNA_P
ClientSampleId :
SS-6

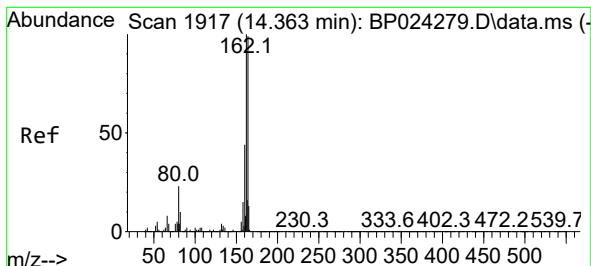
Tgt Ion:142 Resp: 797946
Ion Ratio Lower Upper
142 100
141 90.3 70.3 105.5
115 39.5 26.9 40.3



#38
1-Methylnaphthalene
Concen: 20.829 ng
RT: 12.369 min Scan# 1578
Delta R.T. -0.006 min
Lab File: BP024520.D
Acq: 02 May 2025 22:27

Tgt Ion:142 Resp: 489543
Ion Ratio Lower Upper
142 100
141 92.6 73.6 110.4
116 6.0 3.0 4.6





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.351 min Scan# 1915

Delta R.T. 0.000 min

Lab File: BP024520.D

Acq: 02 May 2025 22:27

Instrument :

BNA_P

ClientSampleId :

SS-6

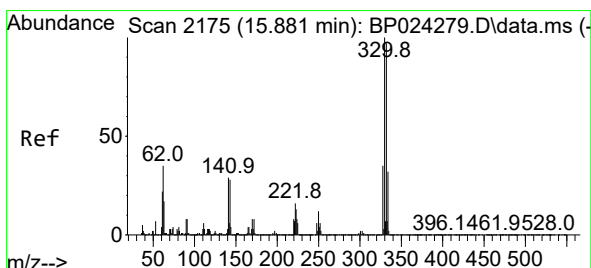
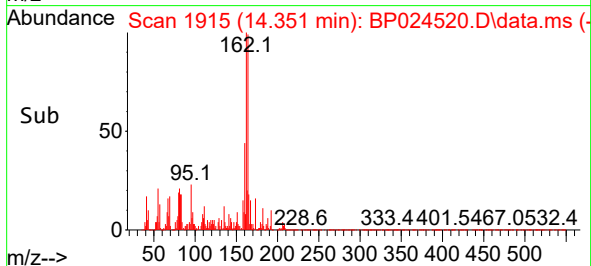
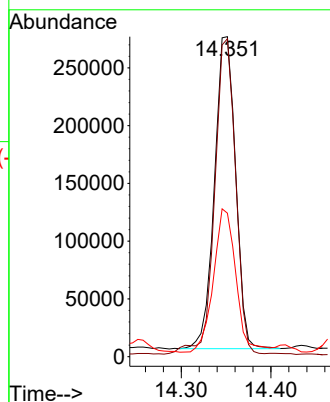
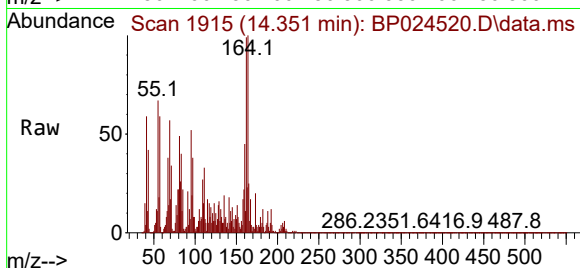
Tgt Ion:164 Resp: 442093

Ion Ratio Lower Upper

164 100

162 99.4 80.6 120.8

160 44.9 35.3 52.9



#42

2,4,6-Tribromophenol

Concen: 115.200 ng

RT: 15.863 min Scan# 2172

Delta R.T. 0.000 min

Lab File: BP024520.D

Acq: 02 May 2025 22:27

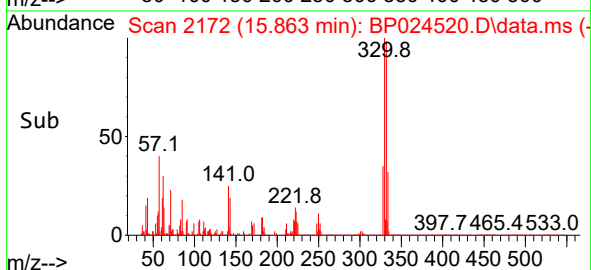
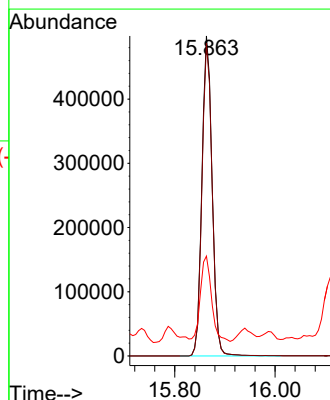
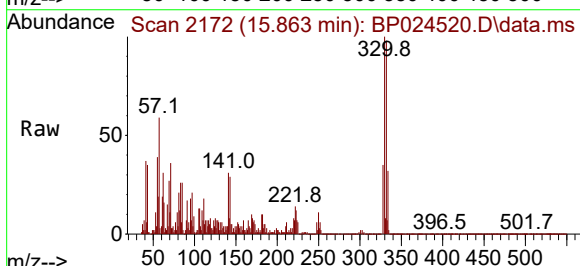
Tgt Ion:330 Resp: 704630

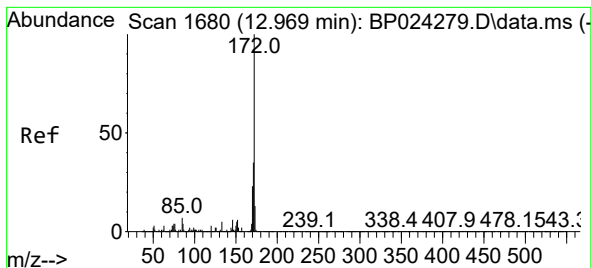
Ion Ratio Lower Upper

330 100

332 97.5 77.1 115.7

141 29.1 24.7 37.1





#45

2-Fluorobiphenyl

Concen: 57.549 ng

RT: 12.951 min Scan# 1

Delta R.T. -0.012 min

Lab File: BP024520.D

Acq: 02 May 2025 22:27

Instrument :

BNA_P

ClientSampleId :

SS-6

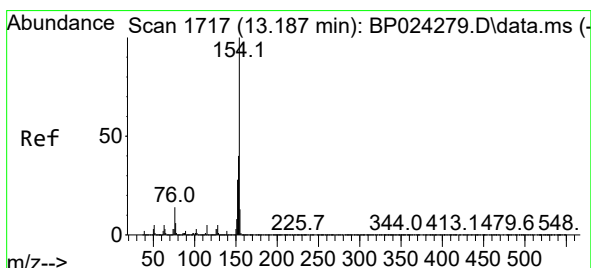
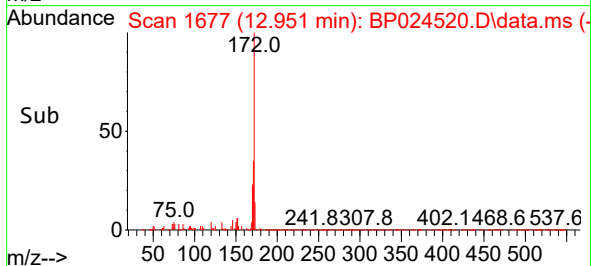
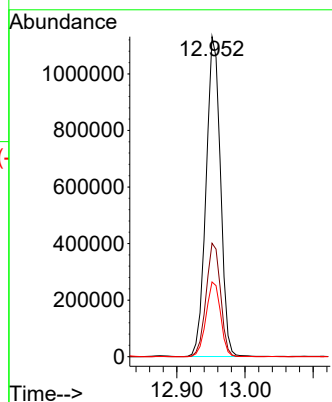
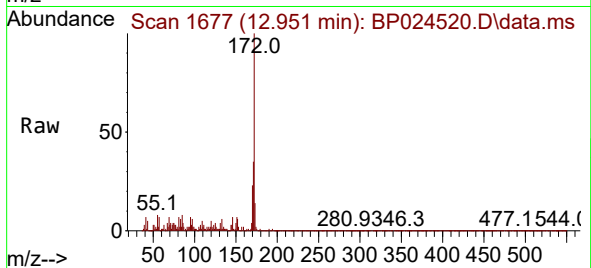
Tgt Ion:172 Resp: 1661684

Ion Ratio Lower Upper

172 100

171 35.4 28.2 42.2

170 23.4 18.6 27.8



#46

1,1'-Biphenyl

Concen: 6.230 ng

RT: 13.169 min Scan# 1714

Delta R.T. -0.006 min

Lab File: BP024520.D

Acq: 02 May 2025 22:27

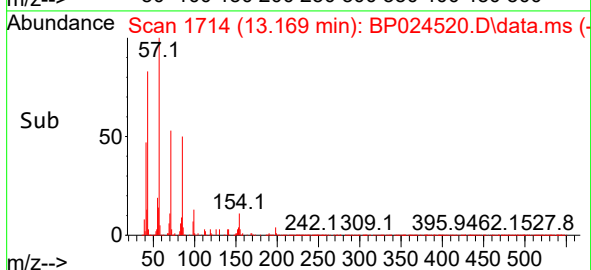
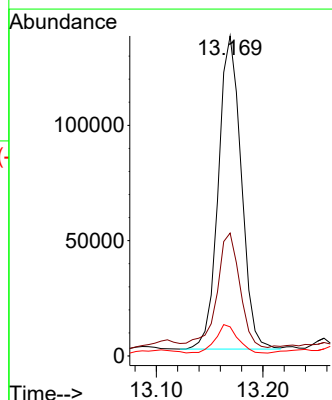
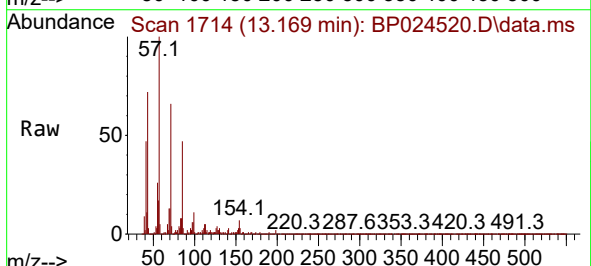
Tgt Ion:154 Resp: 202455

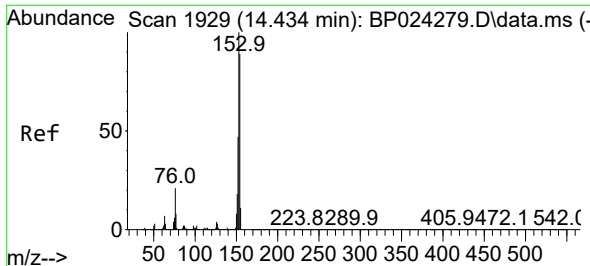
Ion Ratio Lower Upper

154 100

153 38.4 20.3 60.3

76 9.1 0.0 33.5

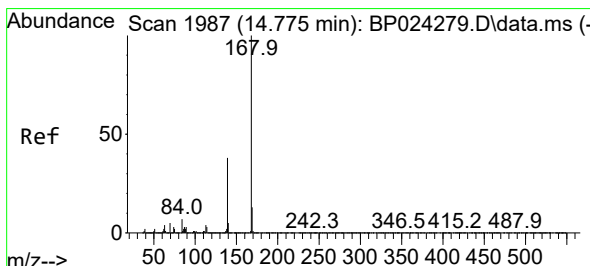
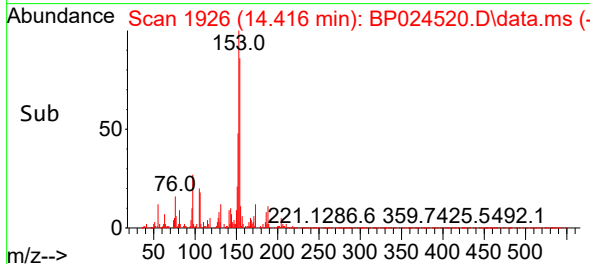
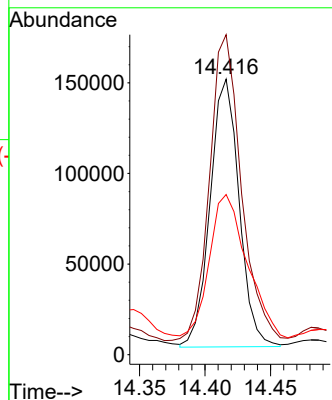
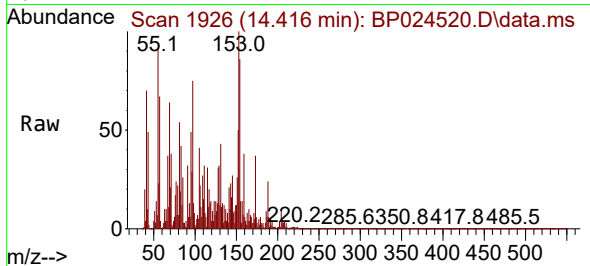




#52
Acenaphthene
Concen: 9.382 ng
RT: 14.416 min Scan# 1926
Delta R.T. -0.006 min
Lab File: BP024520.D
Acq: 02 May 2025 22:27

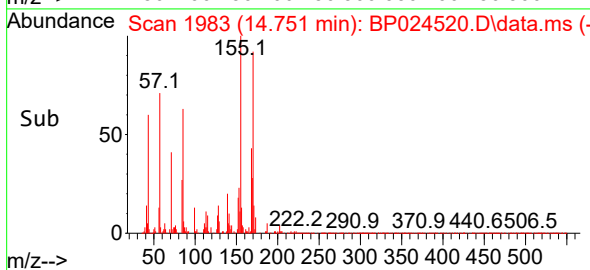
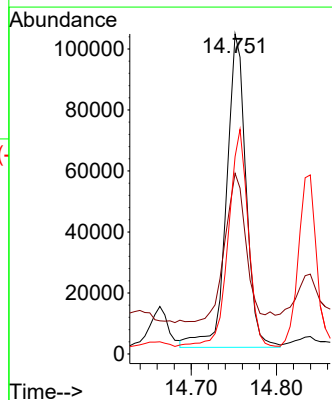
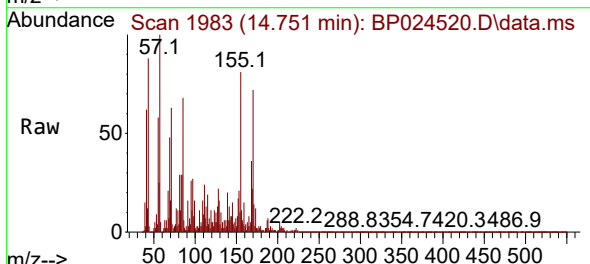
Instrument :
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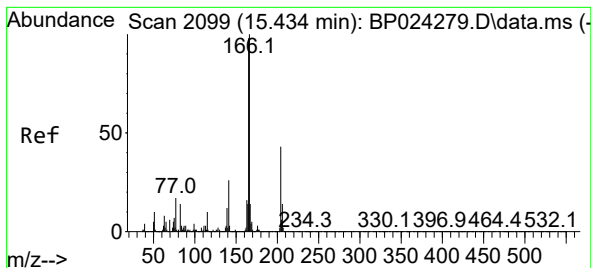
Tgt Ion:154 Resp: 227449
Ion Ratio Lower Upper
154 100
153 116.1 89.8 134.6
152 58.1 42.6 63.8



#55
Dibenzofuran
Concen: 4.140 ng
RT: 14.751 min Scan# 1983
Delta R.T. -0.006 min
Lab File: BP024520.D
Acq: 02 May 2025 22:27

Tgt Ion:168 Resp: 164037
Ion Ratio Lower Upper
168 100
139 56.4 30.3 45.5#
169 61.7 10.6 16.0#





#58

Fluorene

Concen: 13.190 ng

RT: 15.416 min Scan# 2096

Delta R.T. 0.000 min

Lab File: BP024520.D

Acq: 02 May 2025 22:27

Instrument :

BNA_P

ClientSampleId :

SS-6

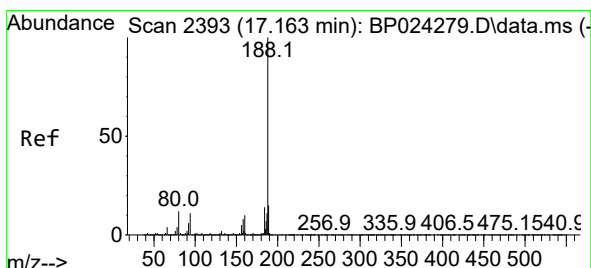
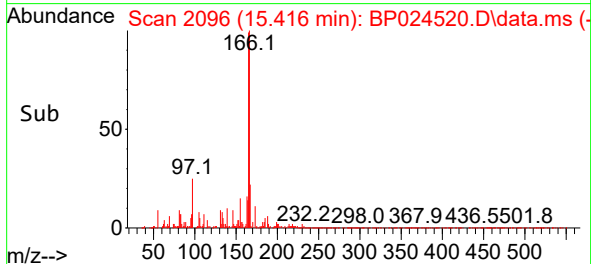
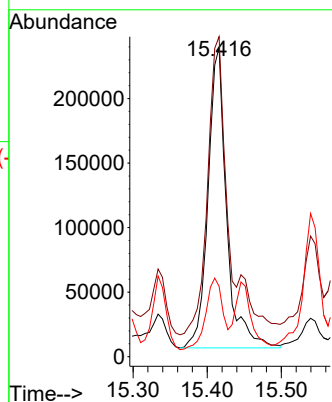
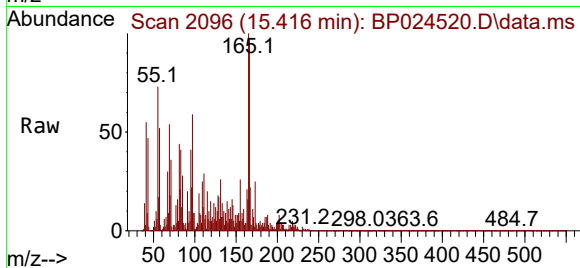
Tgt Ion:166 Resp: 404599

Ion Ratio Lower Upper

166 100

165 103.5 78.1 117.1

167 22.7 10.9 16.3#



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.151 min Scan# 2391

Delta R.T. 0.006 min

Lab File: BP024520.D

Acq: 02 May 2025 22:27

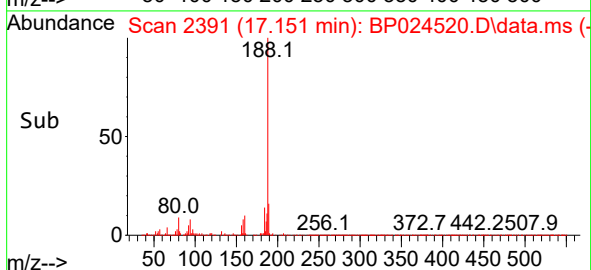
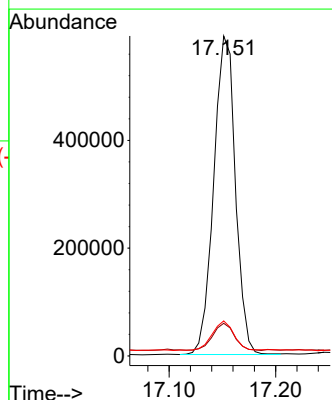
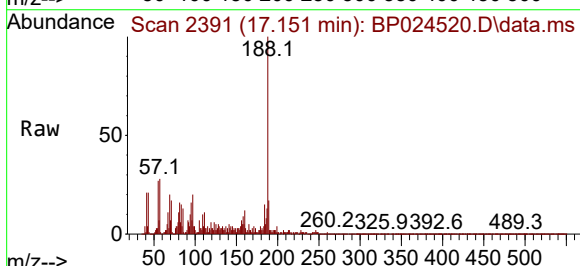
Tgt Ion:188 Resp: 835247

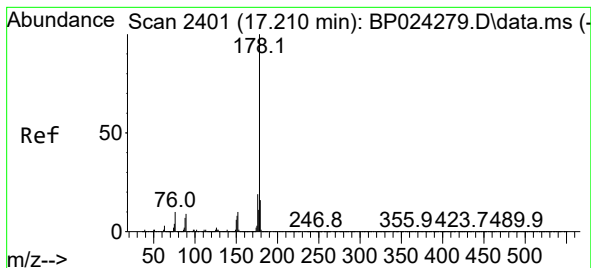
Ion Ratio Lower Upper

188 100

94 10.2 8.6 13.0

80 10.9 9.8 14.6





#71

Phenanthrene

Concen: 17.075 ng

RT: 17.198 min Scan# 21

Delta R.T. 0.006 min

Lab File: BP024520.D

Acq: 02 May 2025 22:27

Instrument :

BNA_P

ClientSampleId :

SS-6

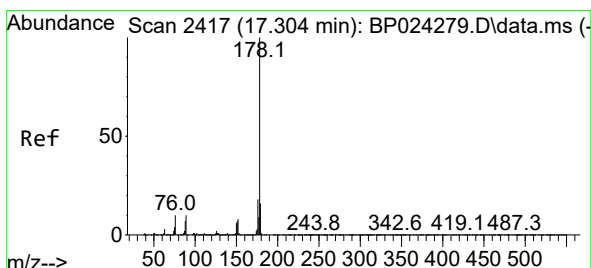
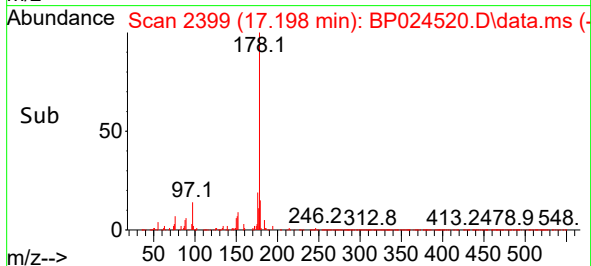
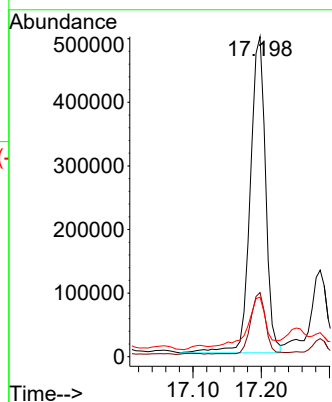
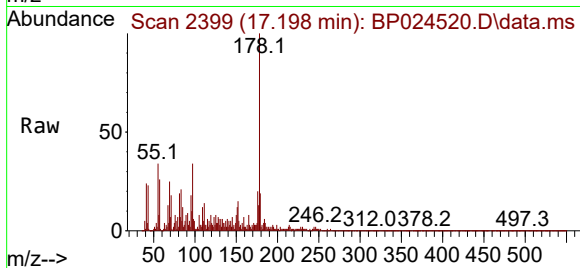
Tgt Ion:178 Resp: 778011

Ion Ratio Lower Upper

178 100

176 20.0 15.4 23.0

179 18.6 12.5 18.7



#72

Anthracene

Concen: 4.101 ng m

RT: 17.287 min Scan# 2414

Delta R.T. 0.000 min

Lab File: BP024520.D

Acq: 02 May 2025 22:27

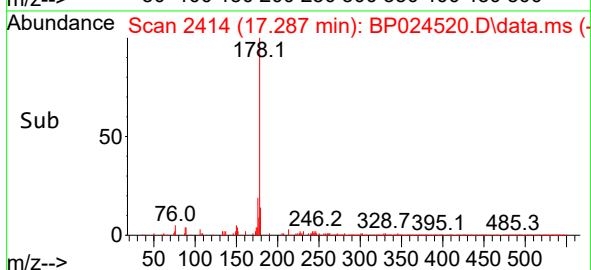
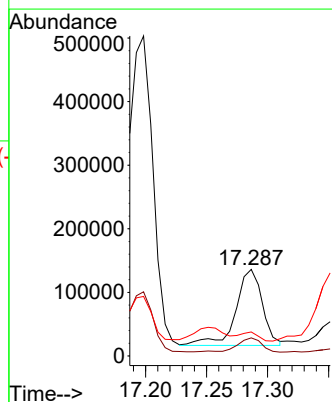
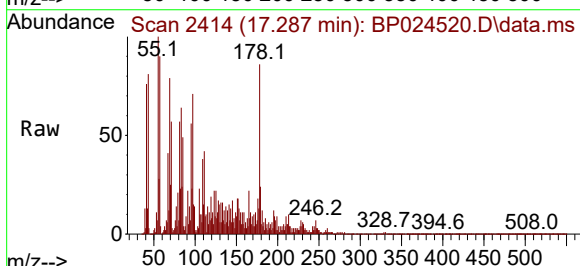
Tgt Ion:178 Resp: 180095

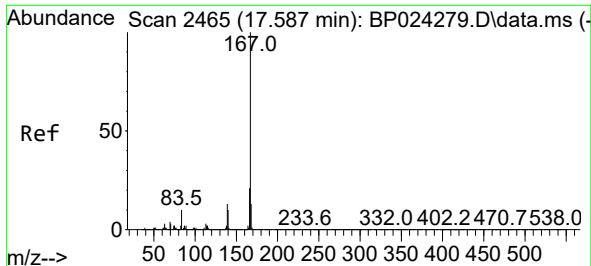
Ion Ratio Lower Upper

178 100

176 20.8 14.7 22.1

179 27.7 12.4 18.6#

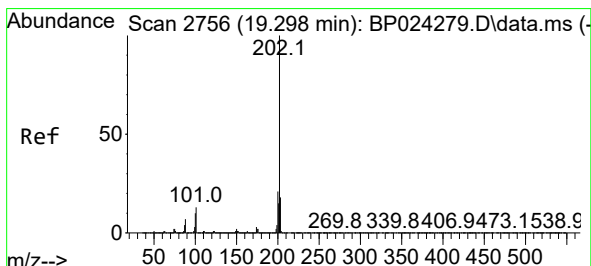
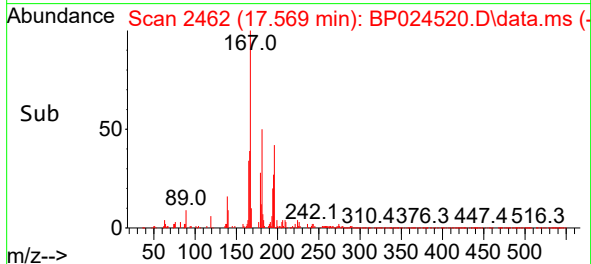
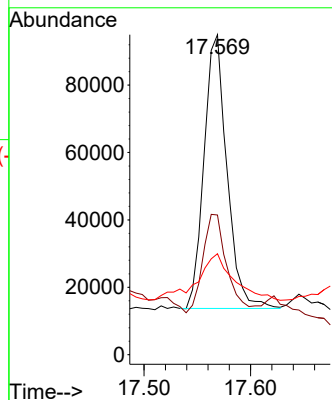
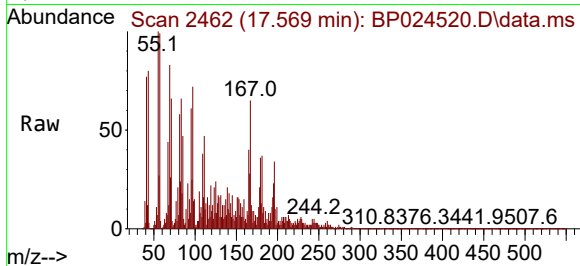




#73
 Carbazole
 Concen: 2.830 ng
 RT: 17.569 min Scan# 2465
 Delta R.T. 0.000 min
 Lab File: BP024520.D
 Acq: 02 May 2025 22:27

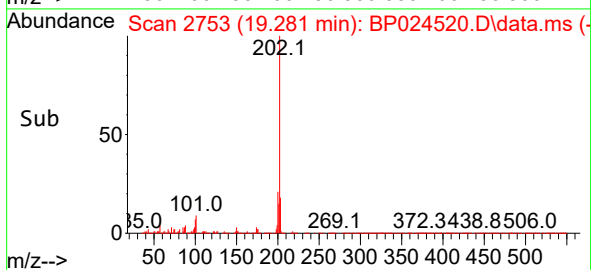
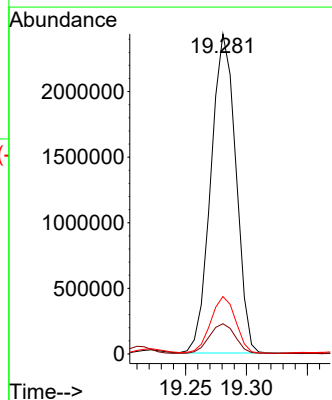
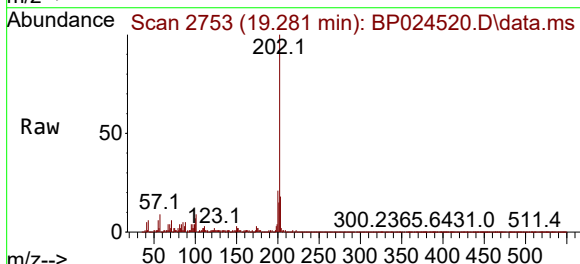
Instrument :
 BNA_P
 ClientSampleId :
 SS-6

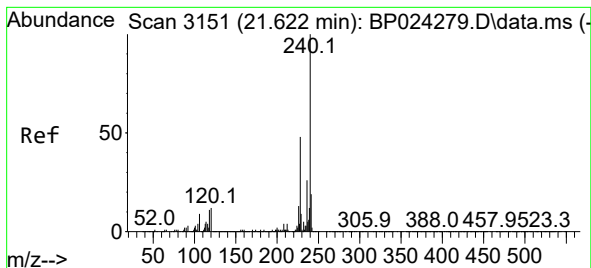
Tgt Ion:167 Resp: 121421
 Ion Ratio Lower Upper
 167 100
 166 43.7 17.1 25.7#
 139 31.5 10.6 16.0#



#75
 Fluoranthene
 Concen: 64.096 ng
 RT: 19.281 min Scan# 2753
 Delta R.T. 0.000 min
 Lab File: BP024520.D
 Acq: 02 May 2025 22:27

Tgt Ion:202 Resp: 3473505
 Ion Ratio Lower Upper
 202 100
 101 9.5 0.0 33.2
 203 18.0 0.0 37.7





#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.586 min Scan# 31

Delta R.T. -0.006 min

Lab File: BP024520.D

Acq: 02 May 2025 22:27

Instrument :

BNA_P

ClientSampleId :

SS-6

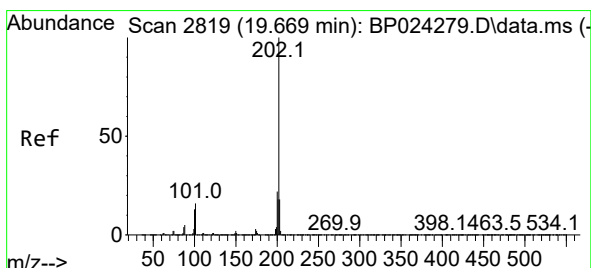
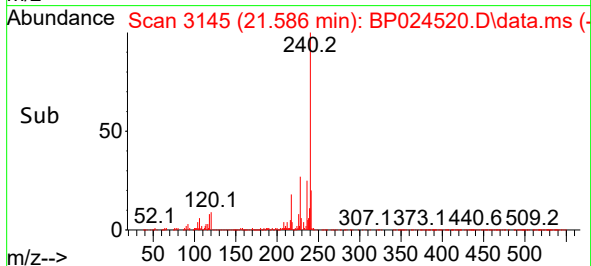
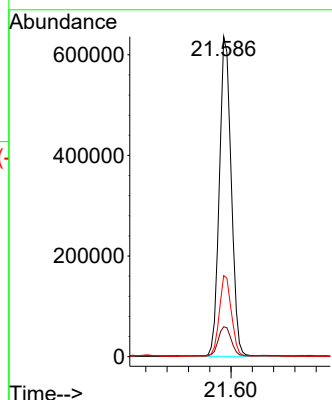
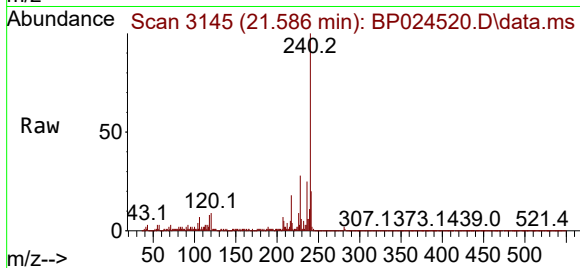
Tgt Ion:240 Resp: 983824

Ion Ratio Lower Upper

240 100

120 9.3 9.8 14.8#

236 25.4 20.9 31.3



#78

Pyrene

Concen: 47.059 ng

RT: 19.657 min Scan# 2817

Delta R.T. 0.006 min

Lab File: BP024520.D

Acq: 02 May 2025 22:27

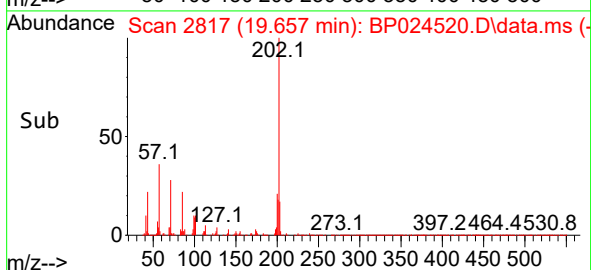
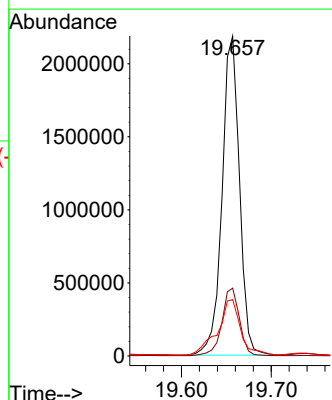
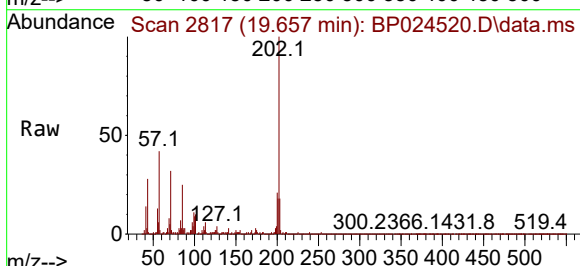
Tgt Ion:202 Resp: 2942248

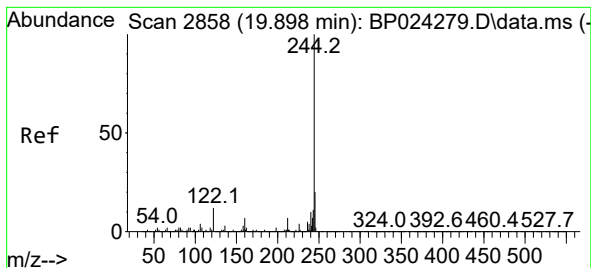
Ion Ratio Lower Upper

202 100

200 21.2 17.2 25.8

203 17.6 14.4 21.6





#79

Terphenyl-d14

Concen: 58.396 ng

RT: 19.875 min Scan# 21

Delta R.T. 0.000 min

Lab File: BP024520.D

Acq: 02 May 2025 22:27

Instrument :

BNA_P

ClientSampleId :

SS-6

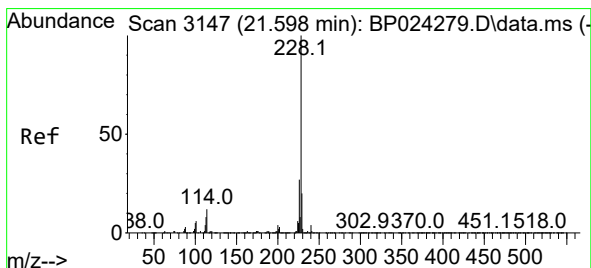
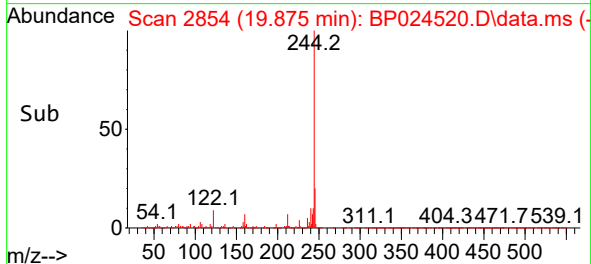
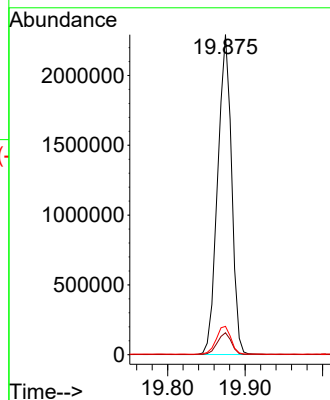
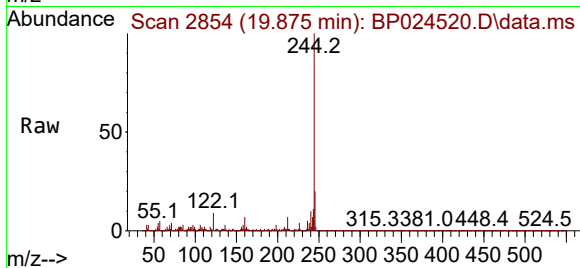
Tgt Ion:244 Resp: 2850305

Ion Ratio Lower Upper

244 100

212 6.8 5.6 8.4

122 8.8 9.4 14.0#



#81

Benzo(a)anthracene

Concen: 15.472 ng

RT: 21.569 min Scan# 3142

Delta R.T. 0.000 min

Lab File: BP024520.D

Acq: 02 May 2025 22:27

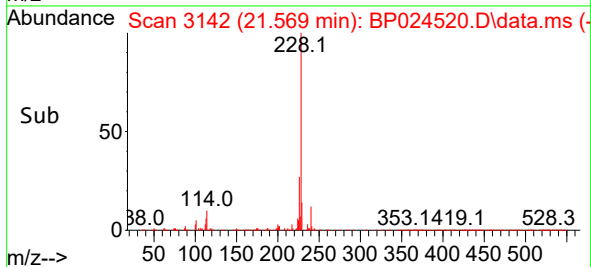
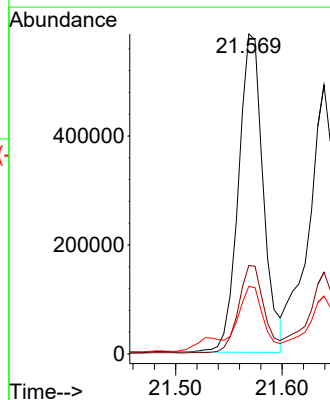
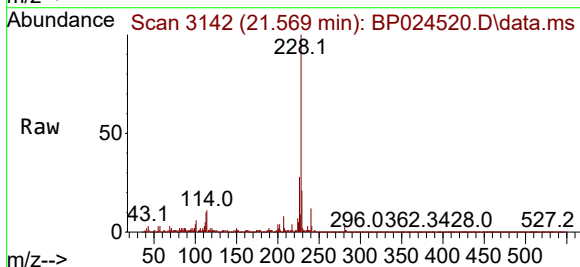
Tgt Ion:228 Resp: 946151

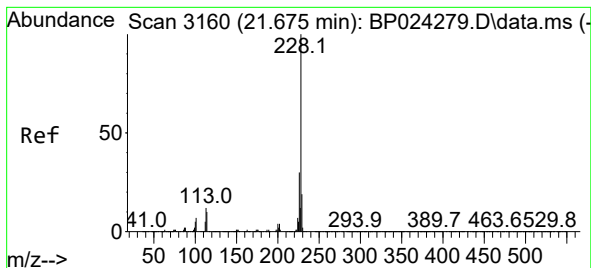
Ion Ratio Lower Upper

228 100

226 27.7 21.8 32.8

229 21.2 15.9 23.9





#83

Chrysene

Concen: 14.345 ng

RT: 21.639 min Scan# 31

Delta R.T. 0.000 min

Lab File: BP024520.D

Acq: 02 May 2025 22:27

Instrument :

BNA_P

ClientSampleId :

SS-6

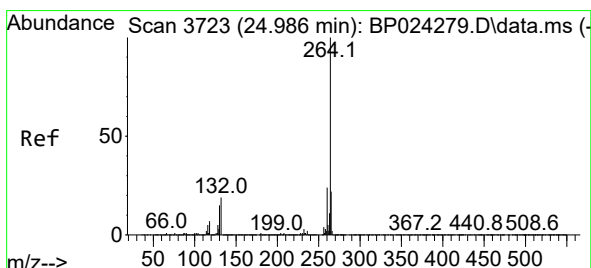
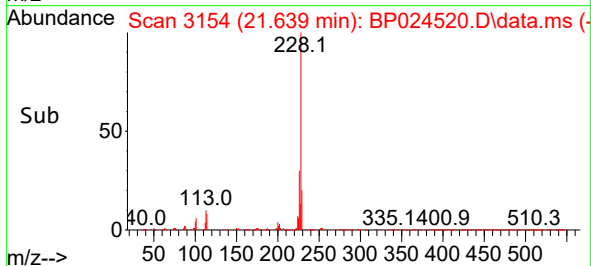
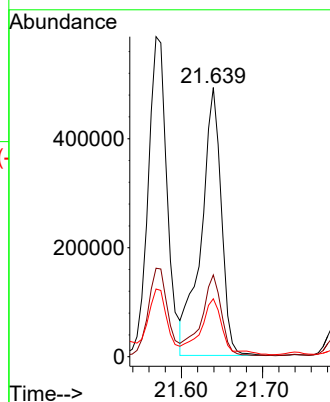
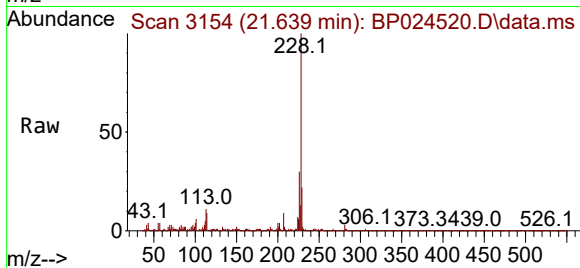
Tgt Ion:228 Resp: 840423

Ion Ratio Lower Upper

228 100

226 30.4 24.2 36.2

229 21.5 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: BP024520.D

Acq: 02 May 2025 22:27

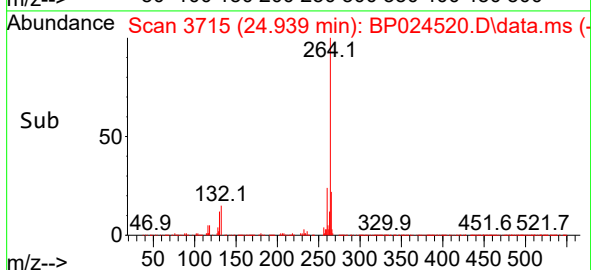
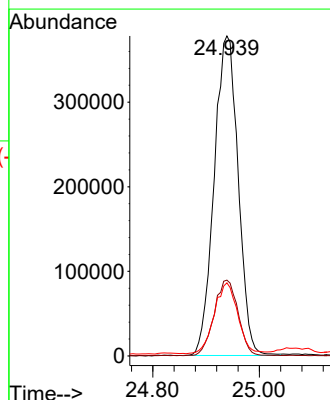
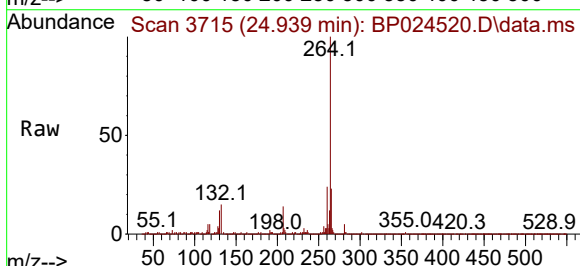
Tgt Ion:264 Resp: 1181270

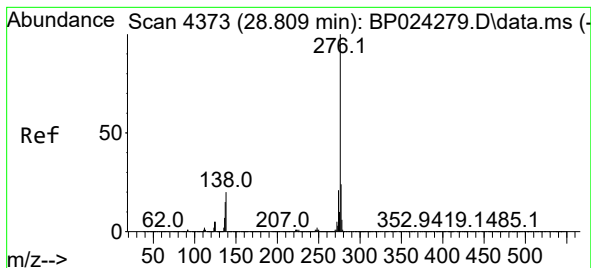
Ion Ratio Lower Upper

264 100

260 23.7 18.9 28.3

265 22.8 17.8 26.6





#87

Indeno(1,2,3-cd)pyrene

Concen: 6.985 ng

RT: 28.727 min Scan# 41

Delta R.T. -0.012 min

Lab File: BP024520.D

Acq: 02 May 2025 22:27

Instrument :

BNA_P

ClientSampleId :

SS-6

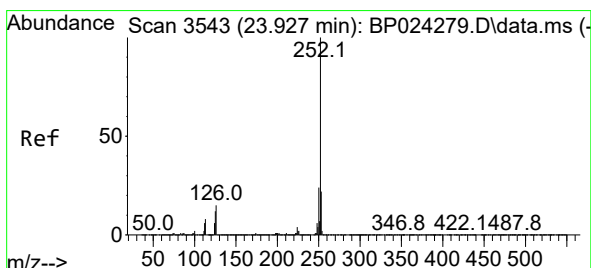
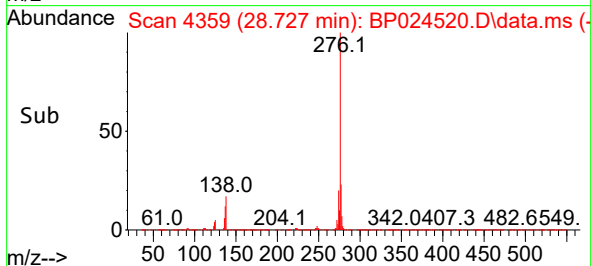
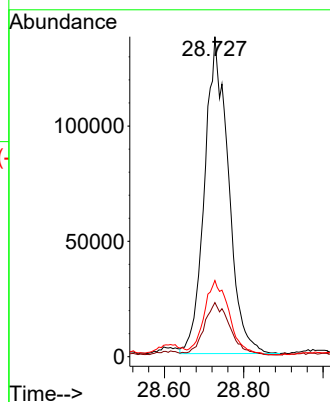
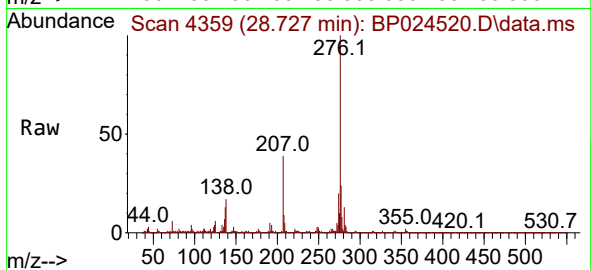
Tgt Ion:276 Resp: 572799

Ion Ratio Lower Upper

276 100

138 17.7 14.5 21.7

277 24.8 20.2 30.2



#88

Benzo(b)fluoranthene

Concen: 17.280 ng m

RT: 23.874 min Scan# 3534

Delta R.T. -0.012 min

Lab File: BP024520.D

Acq: 02 May 2025 22:27

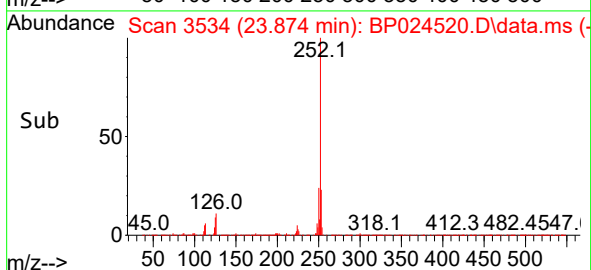
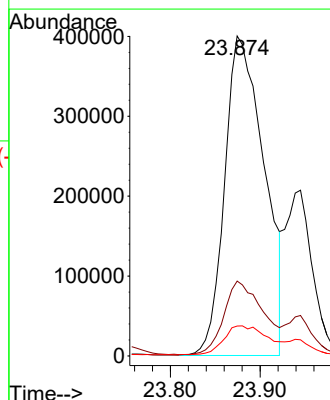
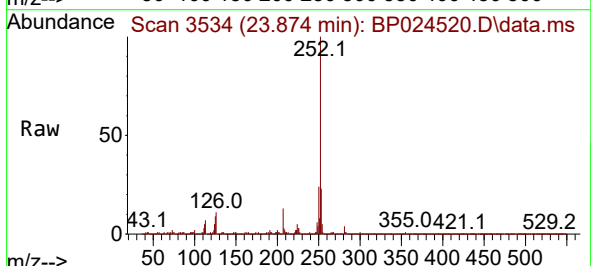
Tgt Ion:252 Resp: 1223565

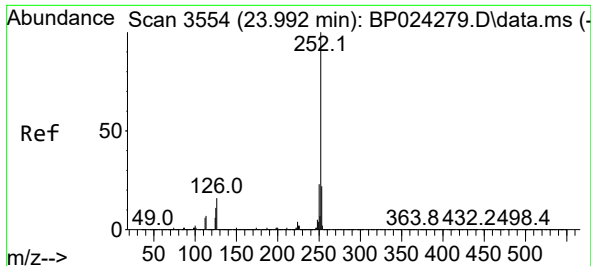
Ion Ratio Lower Upper

252 100

253 23.4 17.7 26.5

125 9.3 9.4 14.0#

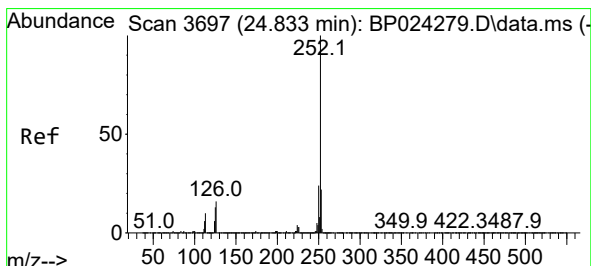
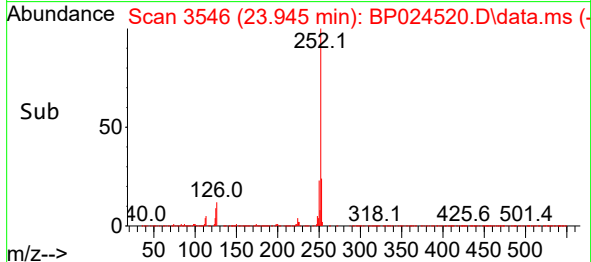
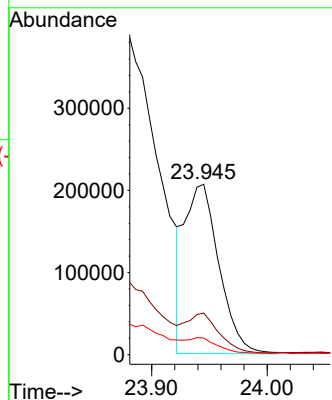
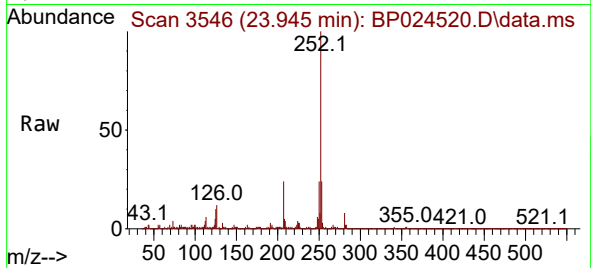




#89
Benzo(k)fluoranthene
Concen: 6.221 ng m
RT: 23.945 min Scan# 31
Delta R.T. -0.012 min
Lab File: BP024520.D
Acq: 02 May 2025 22:27

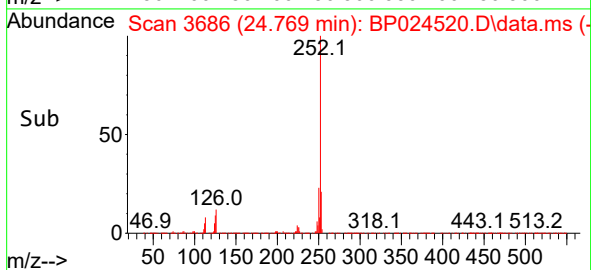
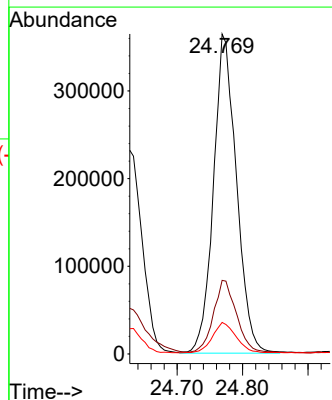
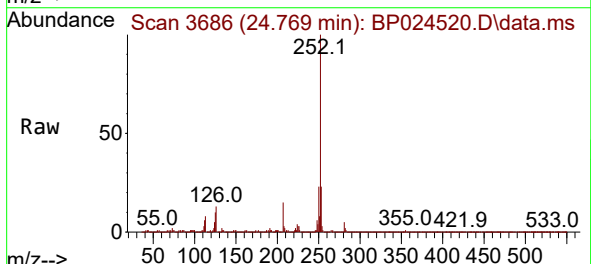
Instrument :
BNA_P
ClientSampleId :
SS-6

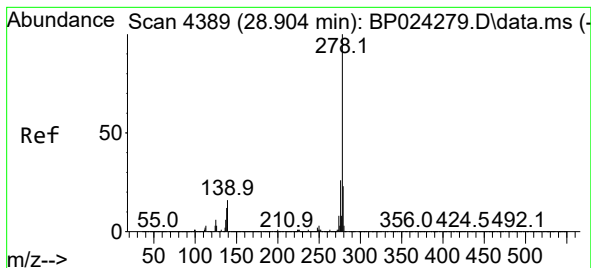
Tgt Ion:252 Resp: 425501
Ion Ratio Lower Upper
252 100
253 24.5 17.7 26.5
125 9.8 9.1 13.7



#90
Benzo(a)pyrene
Concen: 14.577 ng m
RT: 24.769 min Scan# 3686
Delta R.T. -0.012 min
Lab File: BP024520.D
Acq: 02 May 2025 22:27

Tgt Ion:252 Resp: 890340
Ion Ratio Lower Upper
252 100
253 23.0 17.6 26.4
125 9.9 10.1 15.1#





#91

Dibenzo(a,h)anthracene

Concen: 2.121 ng m

RT: 28.774 min Scan# 41

Delta R.T. -0.029 min

Lab File: BP024520.D

Acq: 02 May 2025 22:27

Instrument :

BNA_P

ClientSampleId :

SS-6

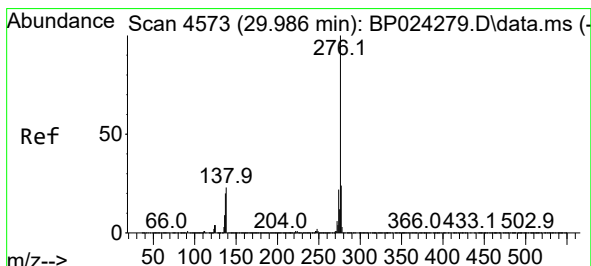
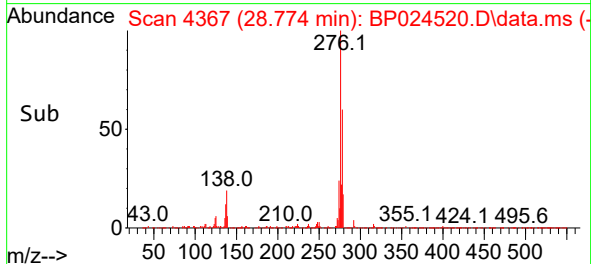
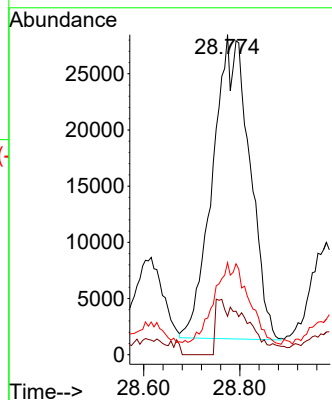
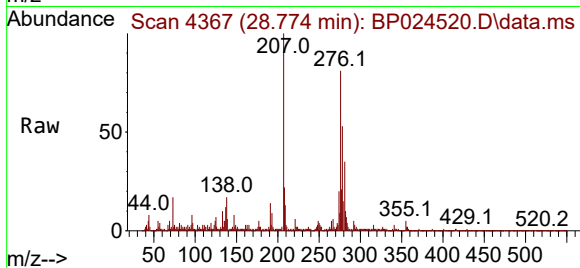
Tgt Ion:278 Resp: 144382

Ion Ratio Lower Upper

278 100

139 12.0 12.6 19.0#

279 28.8 18.5 27.7#



#92

Benzo(g,h,i)perylene

Concen: 7.765 ng

RT: 29.915 min Scan# 4561

Delta R.T. 0.018 min

Lab File: BP024520.D

Acq: 02 May 2025 22:27

Tgt Ion:276 Resp: 538013

Ion Ratio Lower Upper

276 100

277 24.4 18.9 28.3

138 18.9 18.7 28.1

