

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP080825\
 Data File : BP025339.D
 Acq On : 08 Aug 2025 19:24
 Operator : CG/JU
 Sample : Q2801-01 5X
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 TR-04-080725

Quant Time: Aug 11 01:50:22 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP080525.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Aug 06 06:41:44 2025
 Response via : Initial Calibration

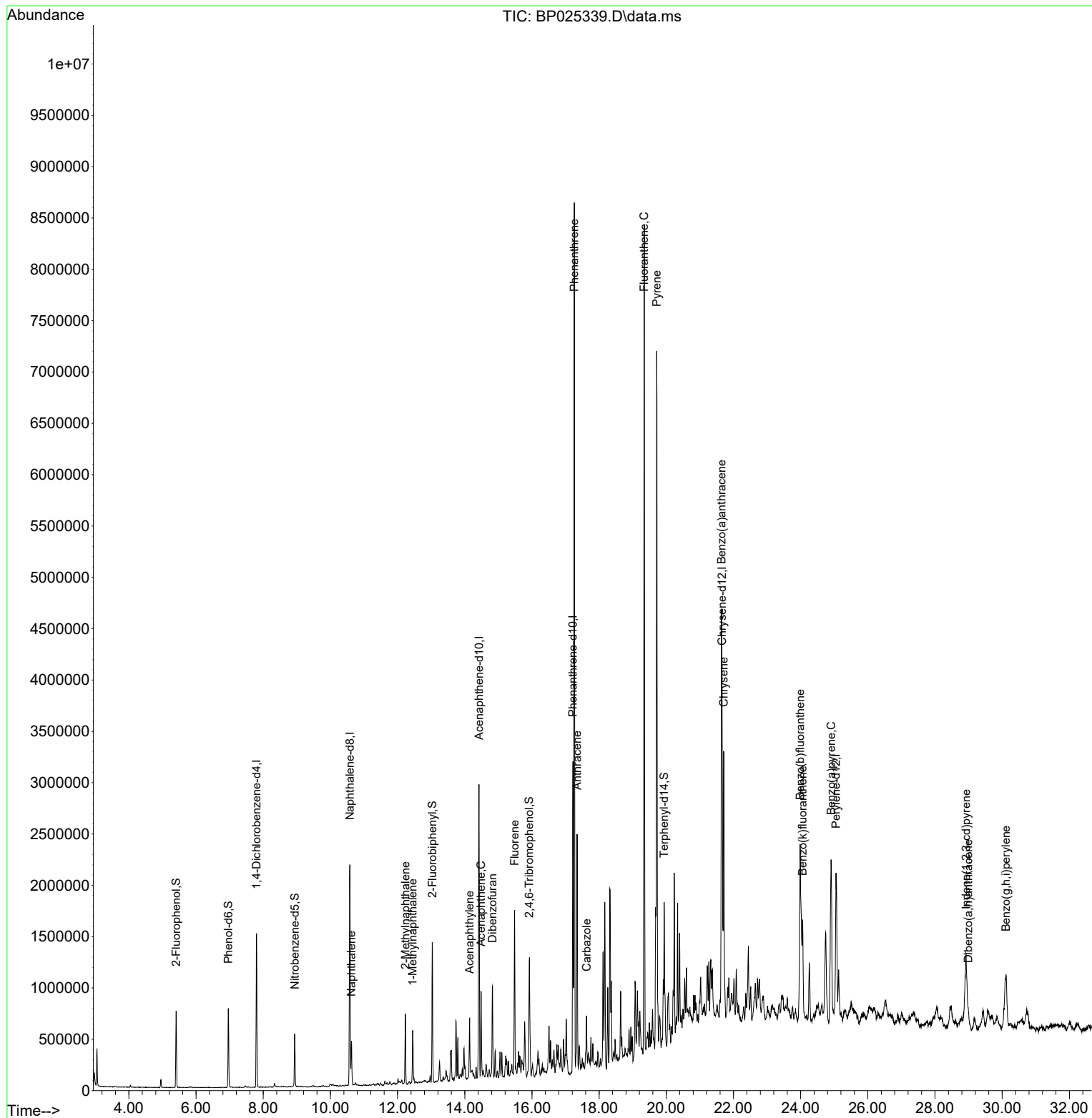
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.802	152	428954	20.000	ng	0.00
21) Naphthalene-d8	10.578	136	1808805	20.000	ng	0.00
39) Acenaphthene-d10	14.425	164	1076497	20.000	ng	0.00
64) Phenanthrene-d10	17.219	188	1760237	20.000	ng	0.00
76) Chrysene-d12	21.660	240	1213972	20.000	ng	0.00
86) Perylene-d12	25.054	264	1442249	20.000	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.408	112	343843	12.892	ng	0.00
7) Phenol-d6	6.960	99	428839	12.218	ng	0.00
23) Nitrobenzene-d5	8.937	82	281011	8.607	ng	0.00
42) 2,4,6-Tribromophenol	15.919	330	141488	13.175	ng	0.00
45) 2-Fluorobiphenyl	13.031	172	717568	9.207	ng	0.00
79) Terphenyl-d14	19.936	244	672684	10.466	ng	0.00
Target Compounds						
						Qvalue
31) Naphthalene	10.625	128	350222	3.730	ng	99
37) 2-Methylnaphthalene	12.231	142	312449	5.141	ng	99
38) 1-Methylnaphthalene	12.448	142	251903	3.972	ng	99
49) Acenaphthylene	14.142	152	316656	3.137	ng	# 97
52) Acenaphthene	14.484	154	285228	4.632	ng	98
55) Dibenzofuran	14.819	168	476969	5.183	ng	98
58) Fluorene	15.484	166	674780	9.336	ng	99
71) Phenanthrene	17.260	178	4785373	49.635	ng	98
72) Anthracene	17.342	178	1404861	14.452	ng	99
73) Carbazole	17.625	167	308177	3.303	ng	99
75) Fluoranthene	19.342	202	5139269	46.048	ng	99
78) Pyrene	19.713	202	4243237	52.563	ng	99
81) Benzo(a)anthracene	21.642	228	2117992	26.254	ng	98
83) Chrysene	21.707	228	1769803	23.653	ng	97
87) Indeno(1,2,3-cd)pyrene	28.924	276	1124202	10.875	ng	# 89
88) Benzo(b)fluoranthene	23.983	252	2177932	25.226	ng	97
89) Benzo(k)fluoranthene	24.060	252	712005	8.319	ng	96
90) Benzo(a)pyrene	24.907	252	1789132	21.519	ng	98
91) Dibenzo(a,h)anthracene	28.989	278	292906	3.460	ng	# 91
92) Benzo(g,h,i)perylene	30.112	276	1012428	12.185	ng	100

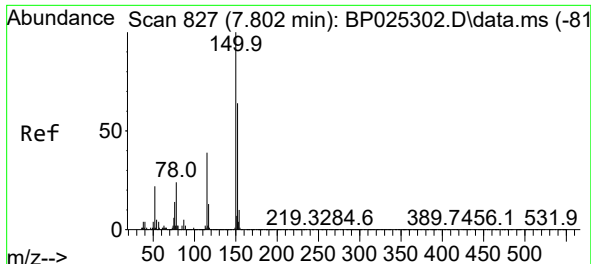
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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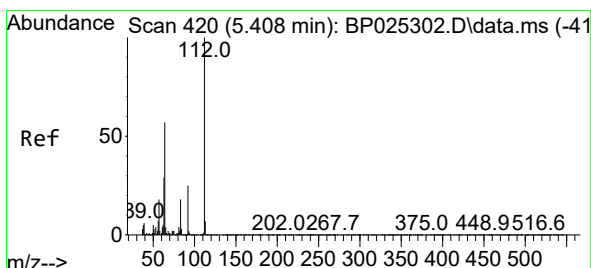
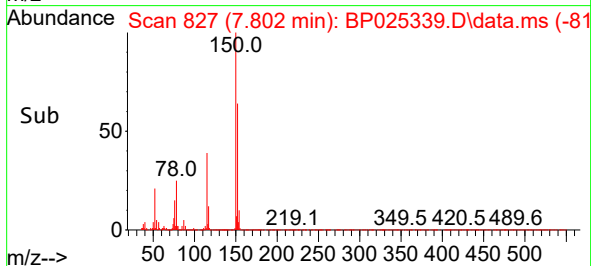
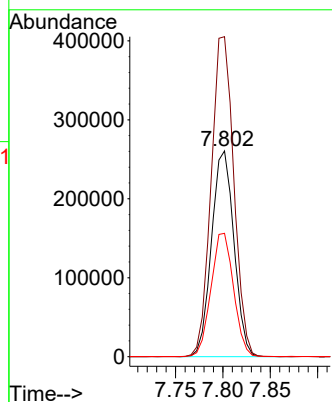
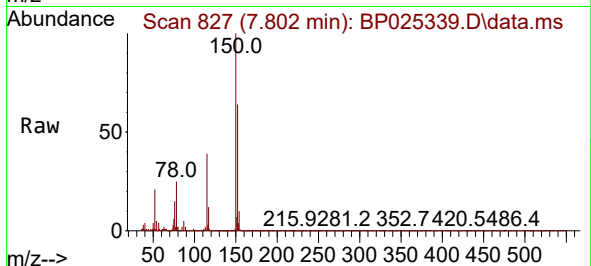




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.802 min Scan# 81
Delta R.T. -0.000 min
Lab File: BP025339.D
Acq: 08 Aug 2025 19:24

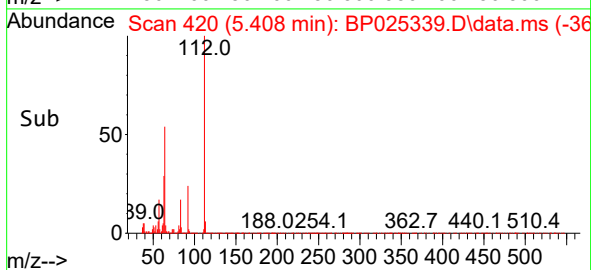
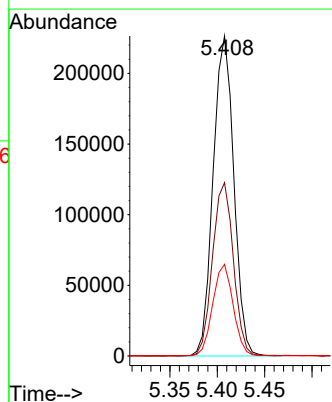
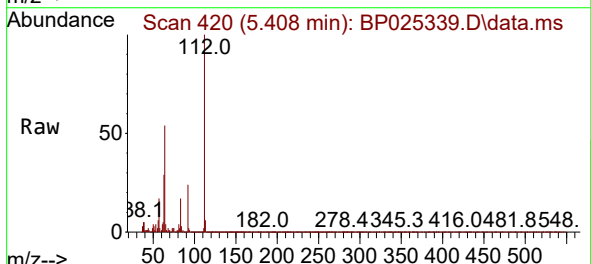
Instrument :
BNA_P
ClientSampleId :
TR-04-080725

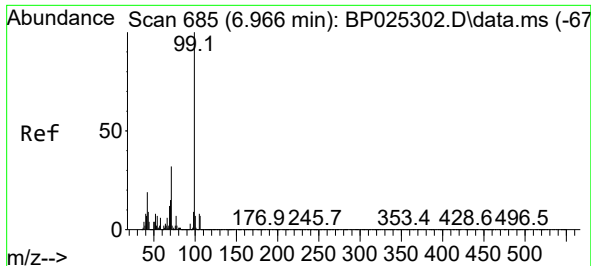
Tgt Ion:152 Resp: 428954
Ion Ratio Lower Upper
152 100
150 155.6 125.1 187.7
115 60.0 48.4 72.6



#5
2-Fluorophenol
Concen: 12.892 ng
RT: 5.408 min Scan# 420
Delta R.T. -0.000 min
Lab File: BP025339.D
Acq: 08 Aug 2025 19:24

Tgt Ion:112 Resp: 343843
Ion Ratio Lower Upper
112 100
64 54.2 45.3 67.9
63 28.6 23.0 34.6

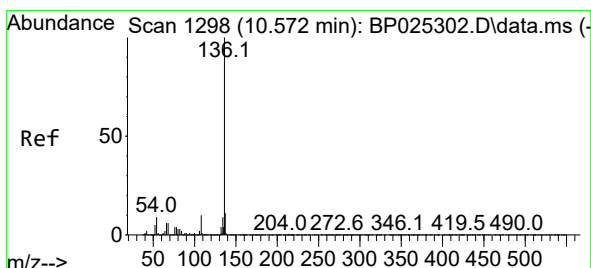
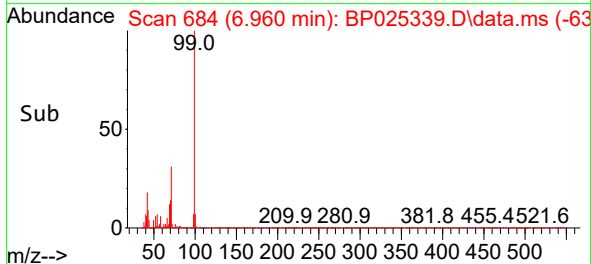
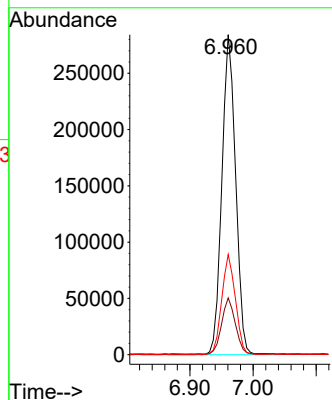
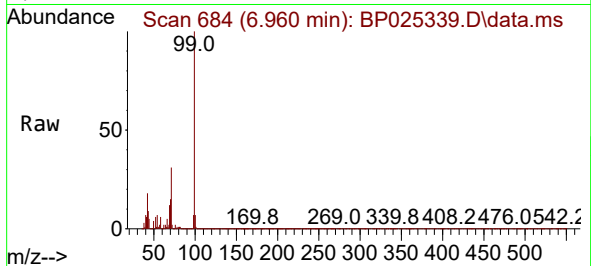




#7
Phenol-d6
Concen: 12.218 ng
RT: 6.960 min Scan# 61
Delta R.T. -0.006 min
Lab File: BP025339.D
Acq: 08 Aug 2025 19:24

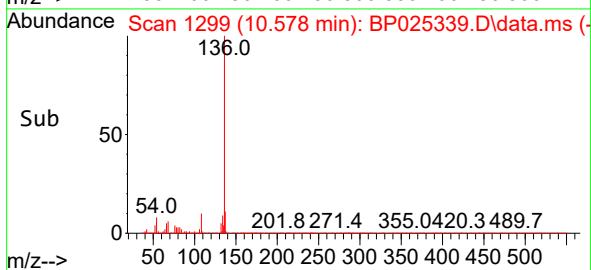
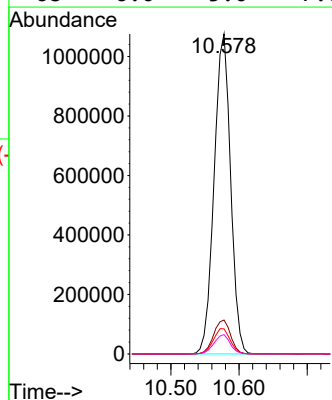
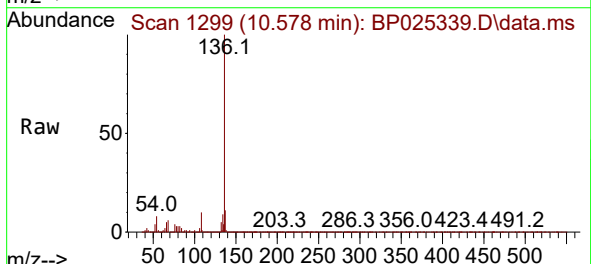
Instrument :
BNA_P
ClientSampleId :
TR-04-080725

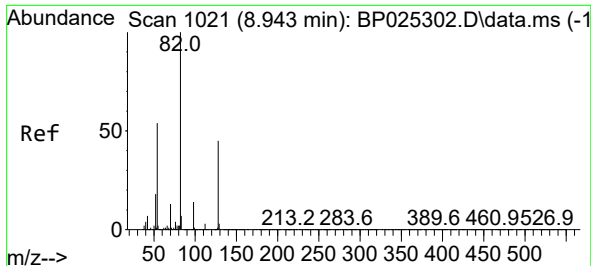
Tgt Ion: 99 Resp: 428839
Ion Ratio Lower Upper
99 100
42 17.8 15.0 22.6
71 31.3 25.5 38.3



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.578 min Scan# 1299
Delta R.T. 0.006 min
Lab File: BP025339.D
Acq: 08 Aug 2025 19:24

Tgt Ion: 136 Resp: 1808805
Ion Ratio Lower Upper
136 100
137 10.6 8.9 13.3
54 7.9 7.0 10.6
68 6.0 5.0 7.6

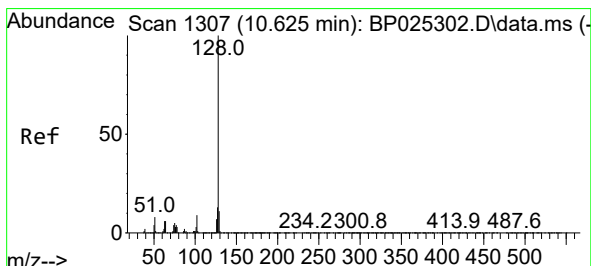
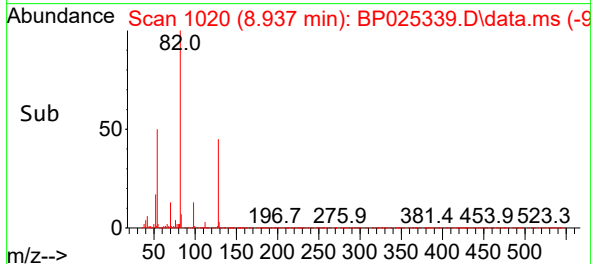
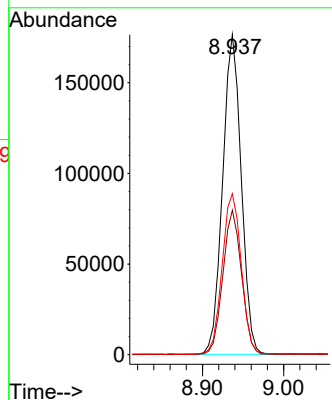
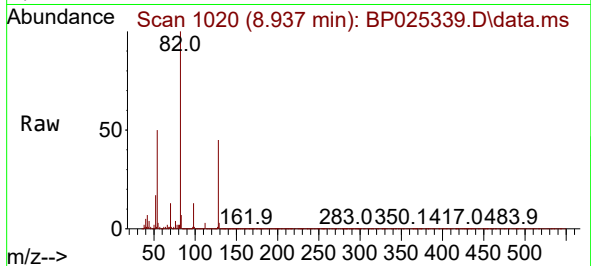




#23
Nitrobenzene-d5
Concen: 8.607 ng
RT: 8.937 min Scan# 1020
Delta R.T. -0.006 min
Lab File: BP025339.D
Acq: 08 Aug 2025 19:24

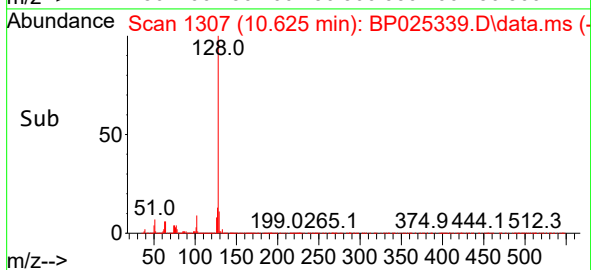
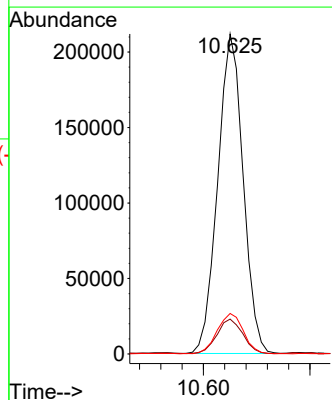
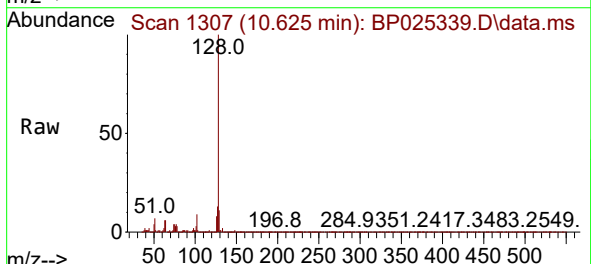
Instrument :
BNA_P
ClientSampleId :
TR-04-080725

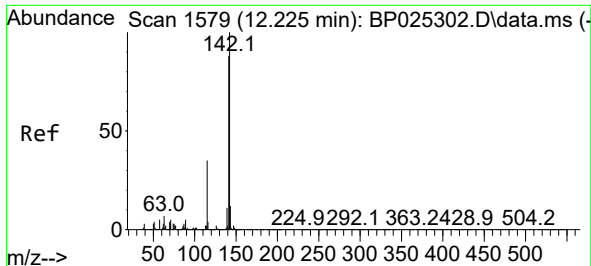
Tgt Ion: 82 Resp: 281011
Ion Ratio Lower Upper
82 100
128 45.2 35.4 53.2
54 50.3 42.9 64.3



#31
Naphthalene
Concen: 3.730 ng
RT: 10.625 min Scan# 1307
Delta R.T. -0.000 min
Lab File: BP025339.D
Acq: 08 Aug 2025 19:24

Tgt Ion: 128 Resp: 350222
Ion Ratio Lower Upper
128 100
129 10.9 8.9 13.3
127 12.7 10.4 15.6

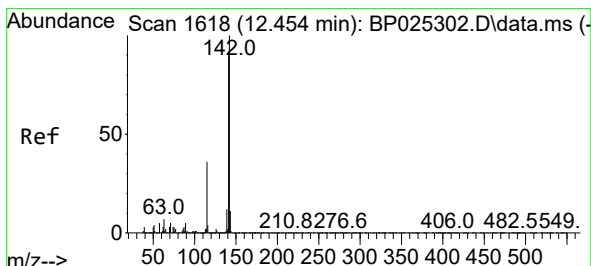
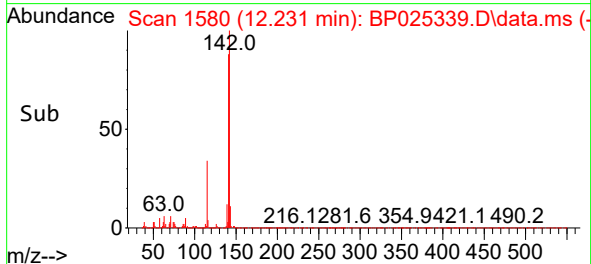
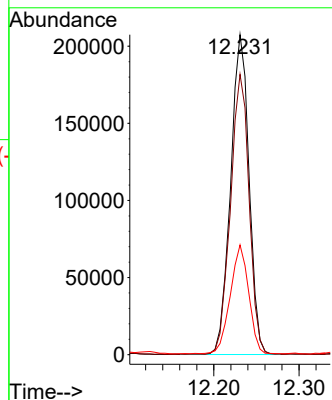
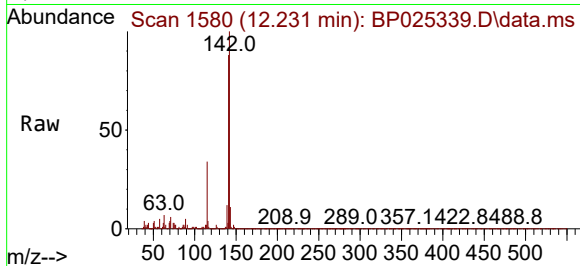




#37
2-Methylnaphthalene
Concen: 5.141 ng
RT: 12.231 min Scan# 1580
Delta R.T. 0.006 min
Lab File: BP025339.D
Acq: 08 Aug 2025 19:24

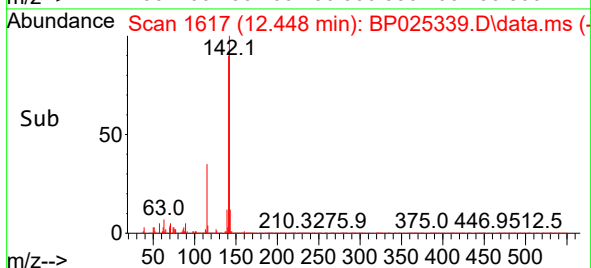
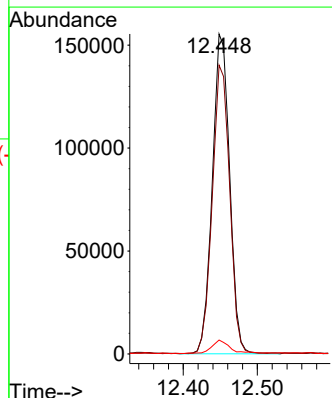
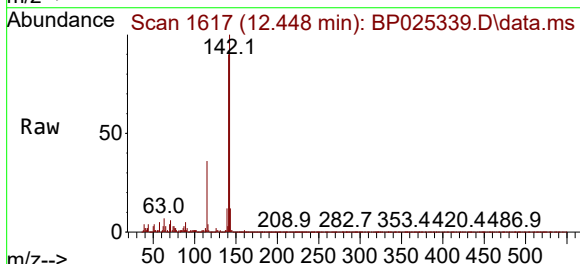
Instrument :
BNA_P
ClientSampleId :
TR-04-080725

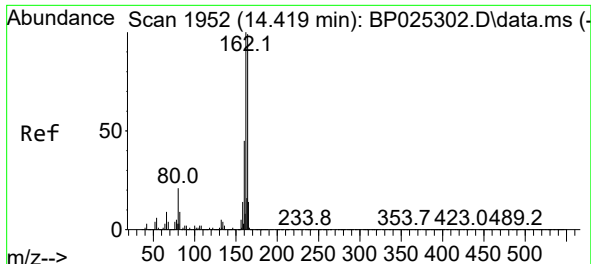
Tgt Ion:142 Resp: 312449
Ion Ratio Lower Upper
142 100
141 87.6 70.4 105.6
115 34.3 28.0 42.0



#38
1-Methylnaphthalene
Concen: 3.972 ng
RT: 12.448 min Scan# 1617
Delta R.T. -0.006 min
Lab File: BP025339.D
Acq: 08 Aug 2025 19:24

Tgt Ion:142 Resp: 251903
Ion Ratio Lower Upper
142 100
141 90.2 73.0 109.6
116 4.4 3.0 4.6

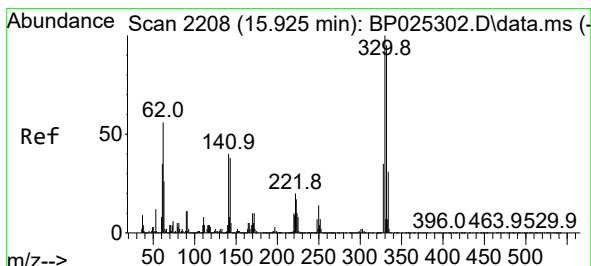
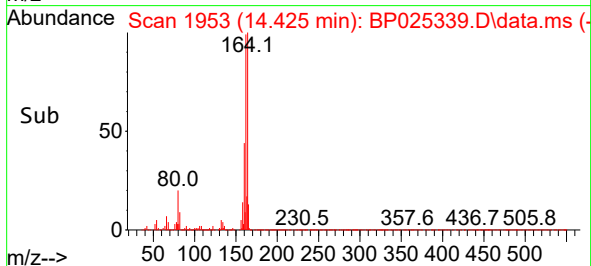
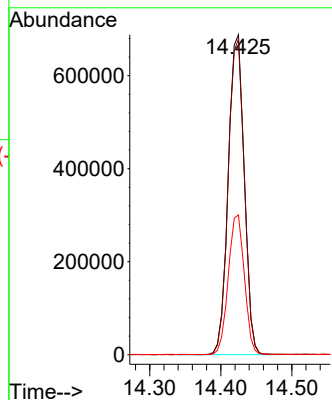
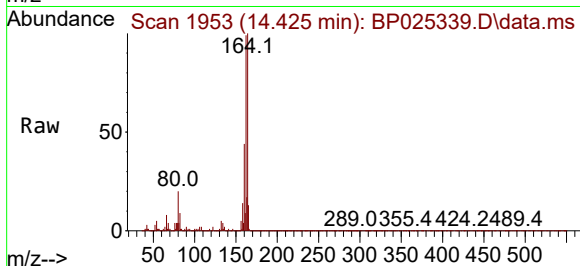




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.425 min Scan# 1952
Delta R.T. 0.006 min
Lab File: BP025339.D
Acq: 08 Aug 2025 19:24

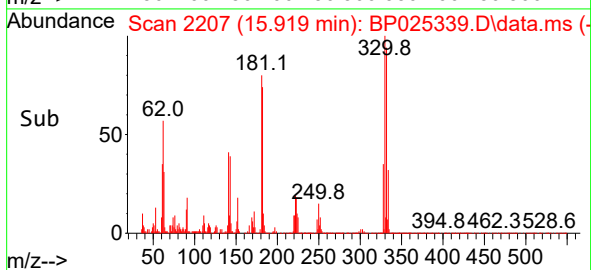
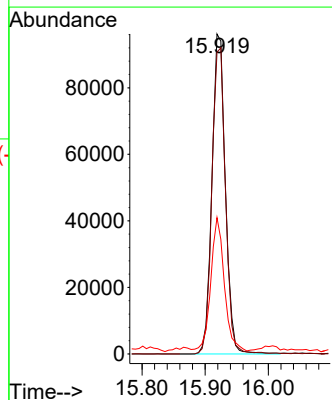
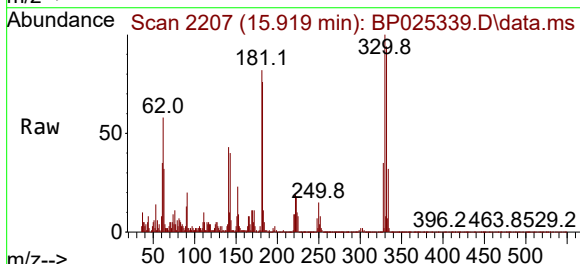
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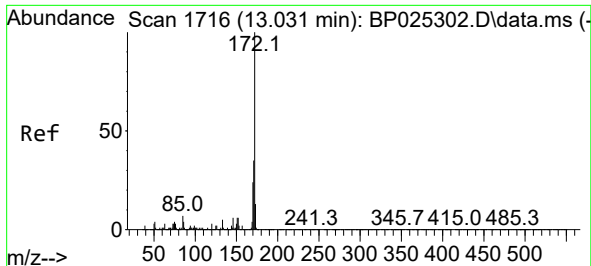
Tgt Ion:164 Resp: 1076497
Ion Ratio Lower Upper
164 100
162 98.6 80.6 120.8
160 43.7 35.9 53.9



#42
2,4,6-Tribromophenol
Concen: 13.175 ng
RT: 15.919 min Scan# 2207
Delta R.T. -0.006 min
Lab File: BP025339.D
Acq: 08 Aug 2025 19:24

Tgt Ion:330 Resp: 141488
Ion Ratio Lower Upper
330 100
332 96.3 77.4 116.0
141 41.9 31.7 47.5

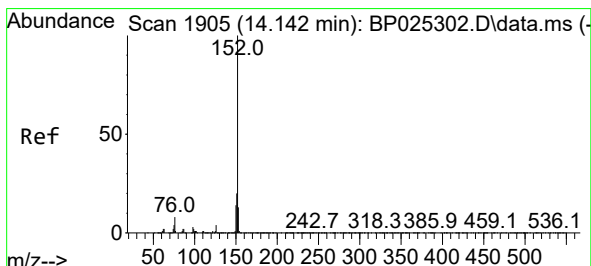
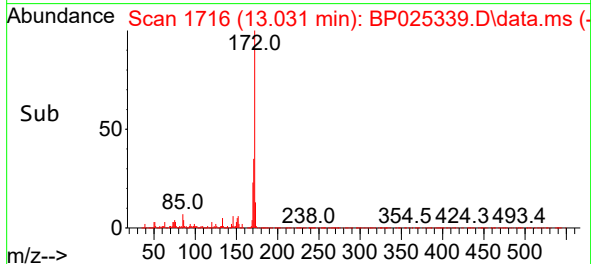
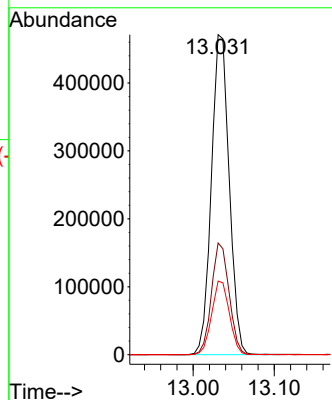
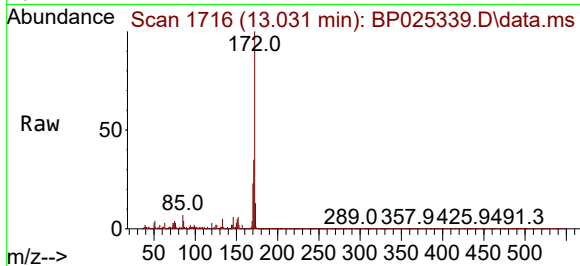




#45
2-Fluorobiphenyl
Concen: 9.207 ng
RT: 13.031 min Scan# 1716
Delta R.T. -0.000 min
Lab File: BP025339.D
Acq: 08 Aug 2025 19:24

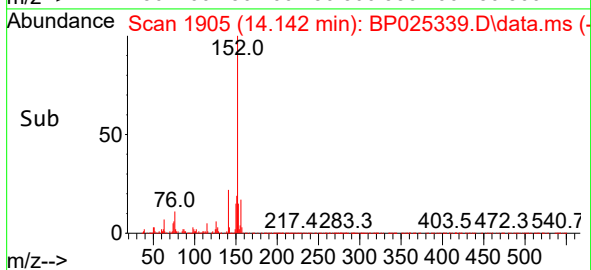
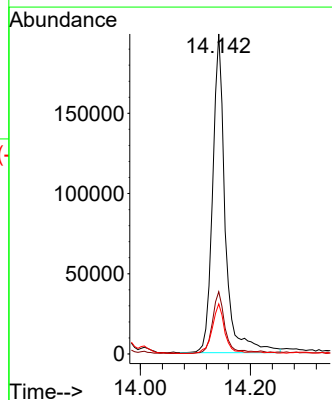
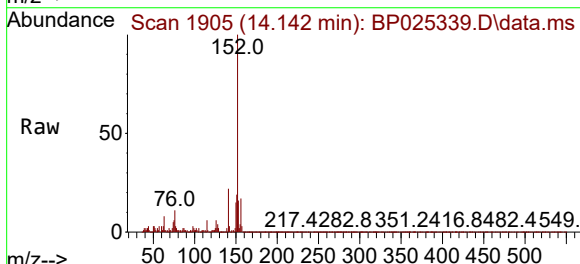
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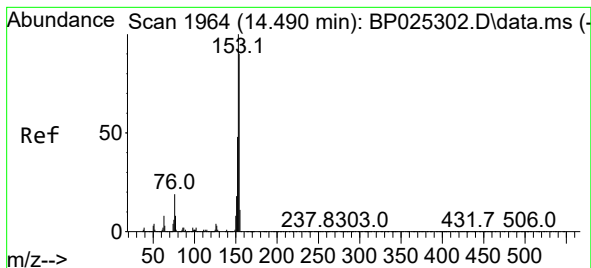
Tgt Ion:172 Resp: 717568
Ion Ratio Lower Upper
172 100
171 34.9 27.9 41.9
170 23.0 18.9 28.3



#49
Acenaphthylene
Concen: 3.137 ng
RT: 14.142 min Scan# 1905
Delta R.T. 0.000 min
Lab File: BP025339.D
Acq: 08 Aug 2025 19:24

Tgt Ion:152 Resp: 316656
Ion Ratio Lower Upper
152 100
151 19.4 15.8 23.6
153 15.7 10.4 15.6#





#52

Acenaphthene

Concen: 4.632 ng

RT: 14.484 min Scan# 1963

Delta R.T. -0.006 min

Lab File: BP025339.D

Acq: 08 Aug 2025 19:24

Instrument :

BNA_P

ClientSampleId :

TR-04-080725

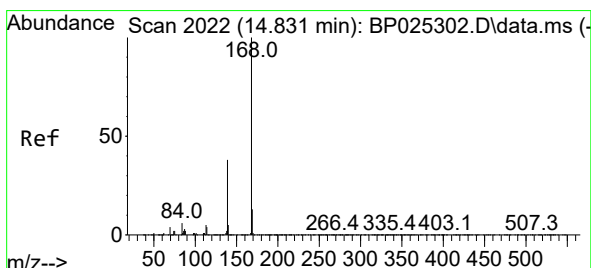
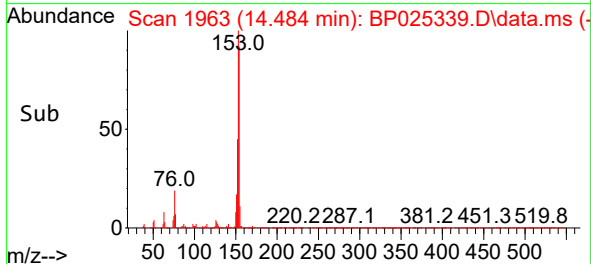
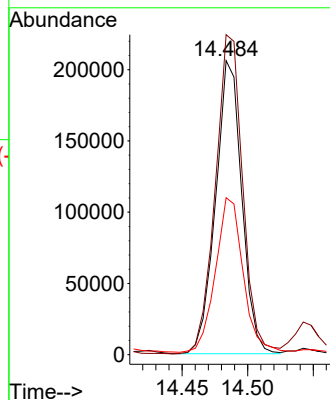
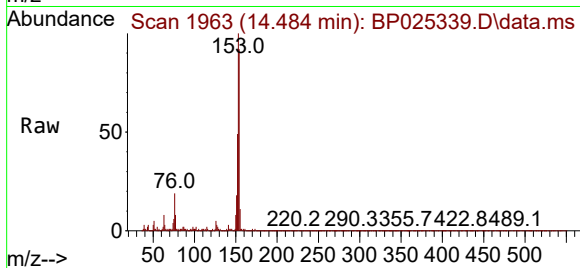
Tgt Ion:154 Resp: 285228

Ion Ratio Lower Upper

154 100

153 108.8 89.4 134.0

152 53.4 43.0 64.6



#55

Dibenzofuran

Concen: 5.183 ng

RT: 14.819 min Scan# 2020

Delta R.T. -0.012 min

Lab File: BP025339.D

Acq: 08 Aug 2025 19:24

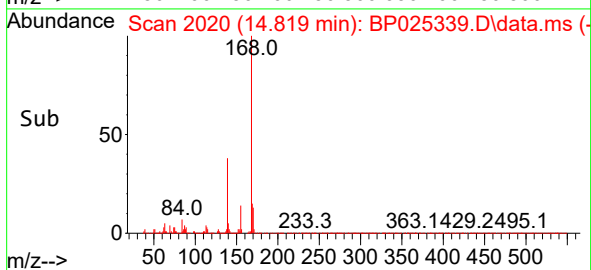
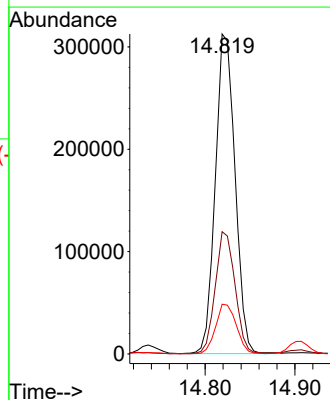
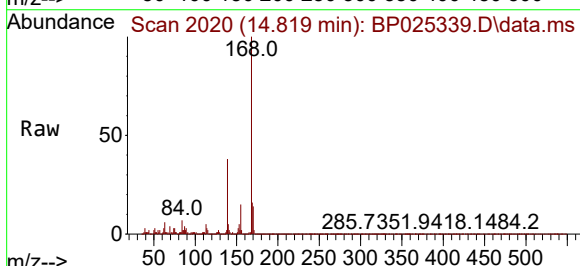
Tgt Ion:168 Resp: 476969

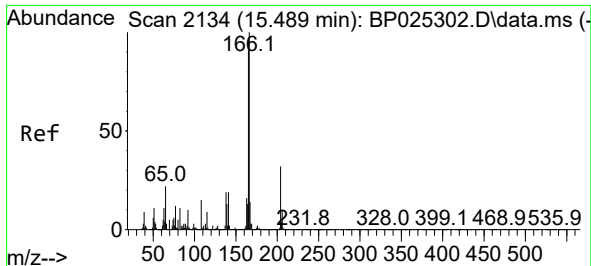
Ion Ratio Lower Upper

168 100

139 38.2 30.5 45.7

169 15.5 10.6 15.8

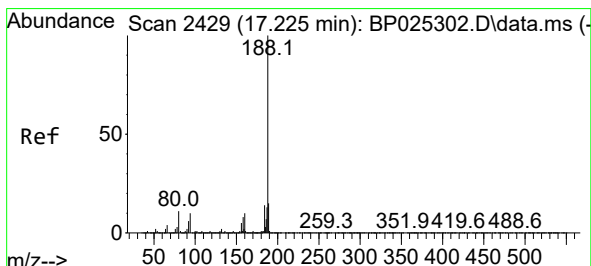
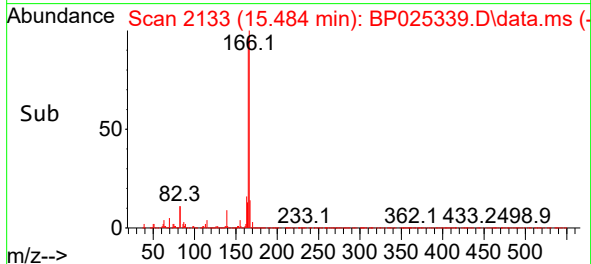
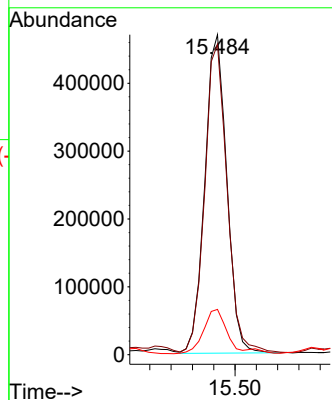
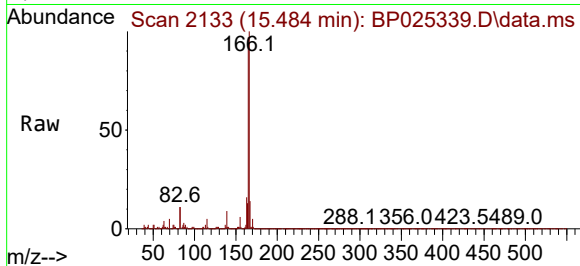




#58
Fluorene
Concen: 9.336 ng
RT: 15.484 min Scan# 2134
Delta R.T. -0.005 min
Lab File: BP025339.D
Acq: 08 Aug 2025 19:24

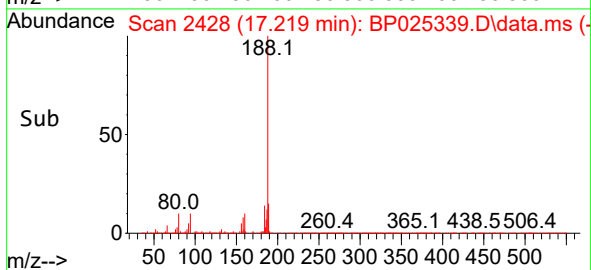
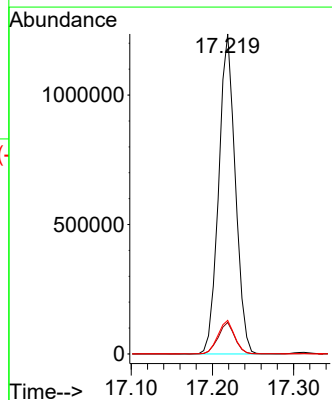
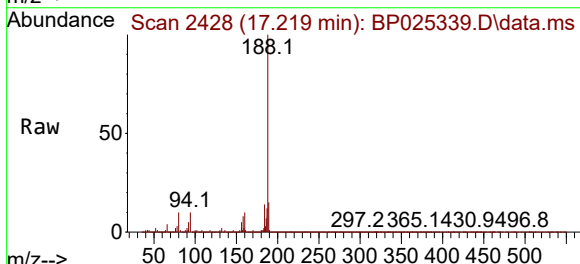
Instrument :
BNA_P
ClientSampleId :
TR-04-080725

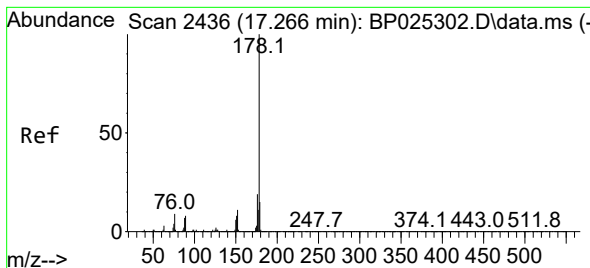
Tgt Ion:166 Resp: 674780
Ion Ratio Lower Upper
166 100
165 97.0 76.7 115.1
167 14.1 10.9 16.3



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.219 min Scan# 2428
Delta R.T. -0.006 min
Lab File: BP025339.D
Acq: 08 Aug 2025 19:24

Tgt Ion:188 Resp: 1760237
Ion Ratio Lower Upper
188 100
94 9.9 8.0 12.0
80 10.5 8.5 12.7





#71

Phenanthrene

Concen: 49.635 ng

RT: 17.260 min Scan# 2436

Delta R.T. -0.006 min

Lab File: BP025339.D

Acq: 08 Aug 2025 19:24

Instrument :

BNA_P

ClientSampleId :

TR-04-080725

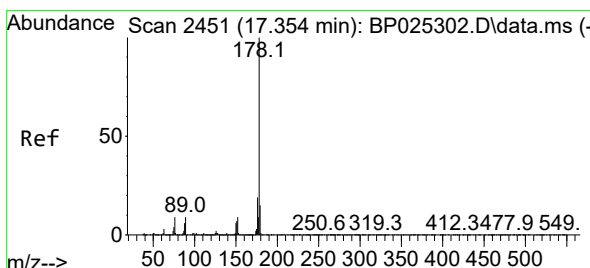
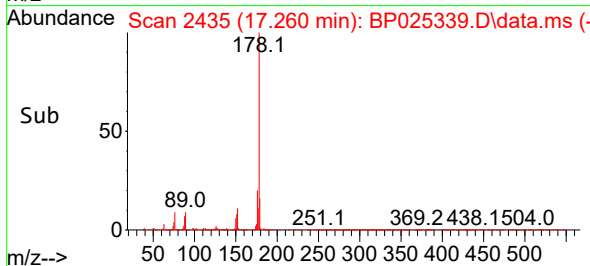
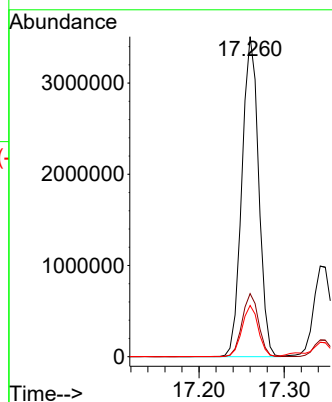
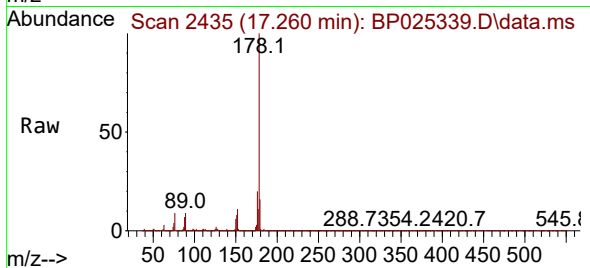
Tgt Ion:178 Resp: 4785373

Ion Ratio Lower Upper

178 100

176 19.7 15.3 22.9

179 16.0 12.1 18.1



#72

Anthracene

Concen: 14.452 ng

RT: 17.342 min Scan# 2449

Delta R.T. -0.012 min

Lab File: BP025339.D

Acq: 08 Aug 2025 19:24

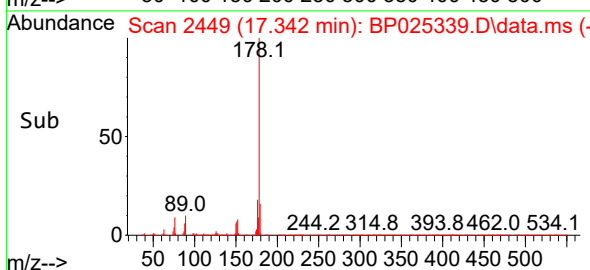
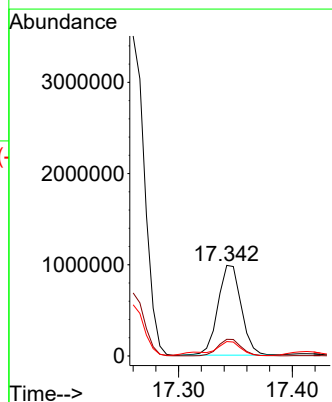
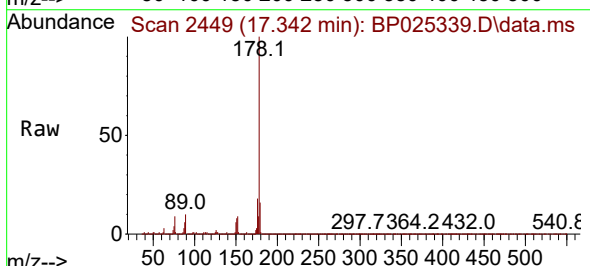
Tgt Ion:178 Resp: 1404861

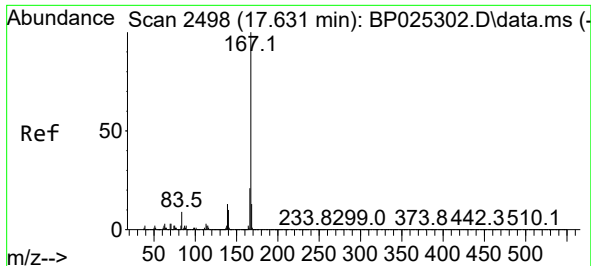
Ion Ratio Lower Upper

178 100

176 18.4 14.8 22.2

179 15.9 12.3 18.5

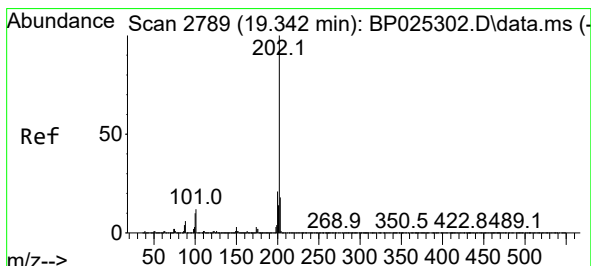
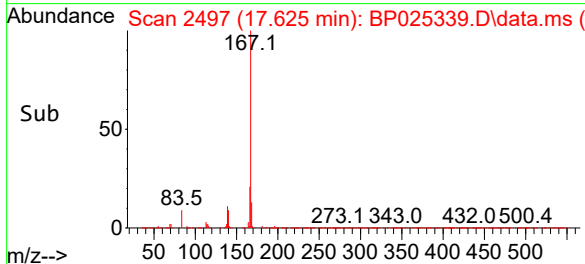
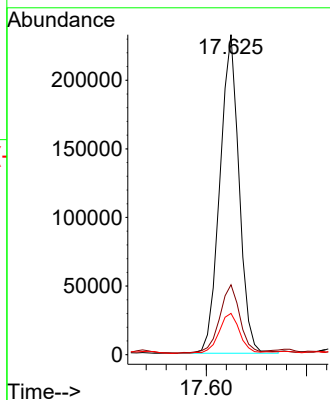
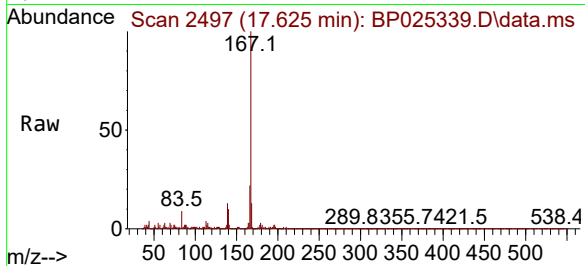




#73
 Carbazole
 Concen: 3.303 ng
 RT: 17.625 min Scan# 2498
 Delta R.T. -0.006 min
 Lab File: BP025339.D
 Acq: 08 Aug 2025 19:24

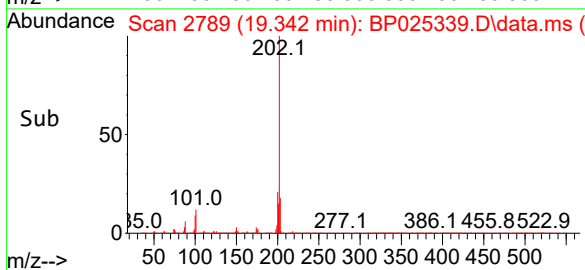
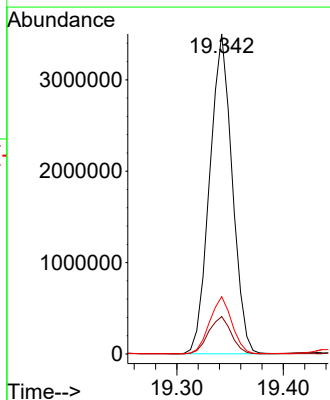
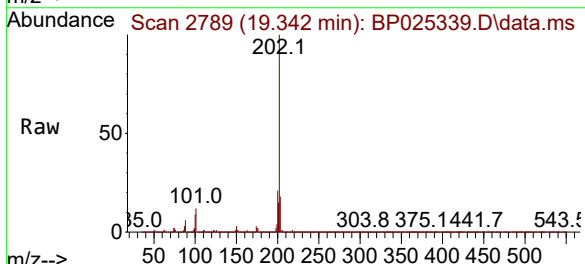
Instrument :
 BNA_P
 ClientSampleId :
 TR-04-080725

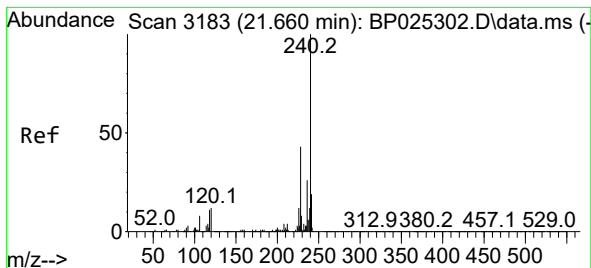
Tgt Ion:167 Resp: 308177
 Ion Ratio Lower Upper
 167 100
 166 21.8 17.0 25.6
 139 12.9 10.6 16.0



#75
 Fluoranthene
 Concen: 46.048 ng
 RT: 19.342 min Scan# 2789
 Delta R.T. 0.000 min
 Lab File: BP025339.D
 Acq: 08 Aug 2025 19:24

Tgt Ion:202 Resp: 5139269
 Ion Ratio Lower Upper
 202 100
 101 11.7 0.0 32.5
 203 17.9 0.0 37.6





#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.660 min Scan# 3183

Delta R.T. -0.000 min

Lab File: BP025339.D

Acq: 08 Aug 2025 19:24

Instrument :

BNA_P

ClientSampleId :

TR-04-080725

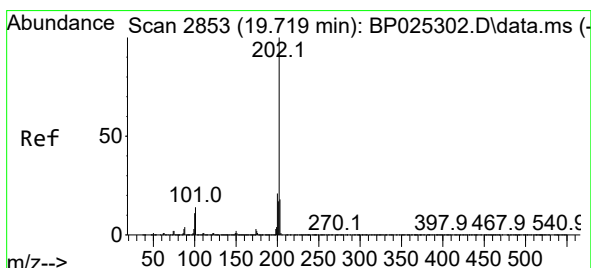
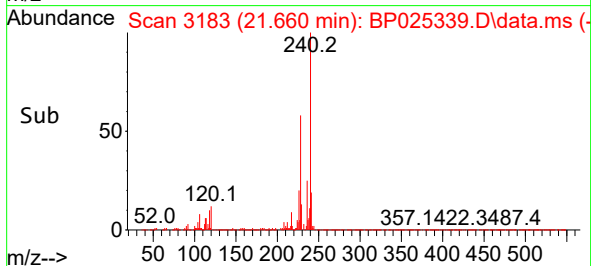
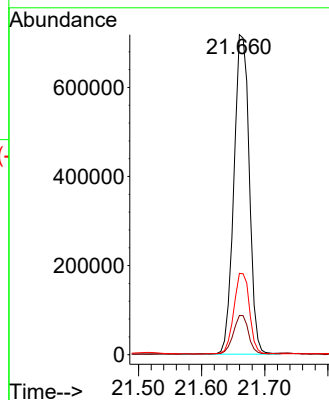
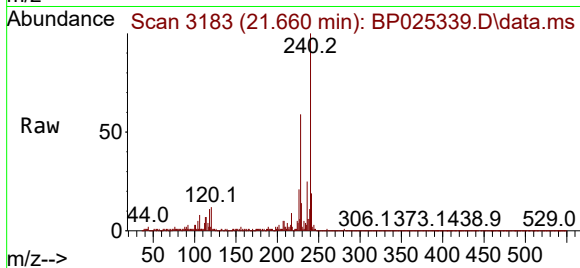
Tgt Ion:240 Resp: 1213972

Ion Ratio Lower Upper

240 100

120 12.2 9.6 14.4

236 25.4 20.4 30.6



#78

Pyrene

Concen: 52.563 ng

RT: 19.713 min Scan# 2852

Delta R.T. -0.006 min

Lab File: BP025339.D

Acq: 08 Aug 2025 19:24

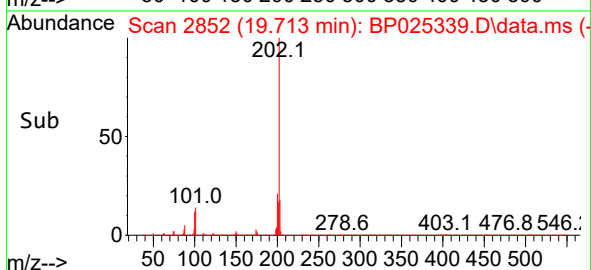
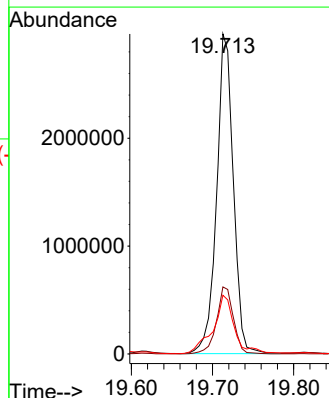
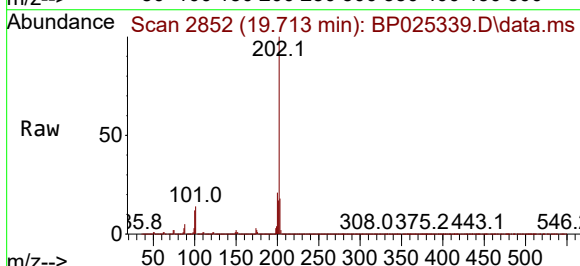
Tgt Ion:202 Resp: 4243237

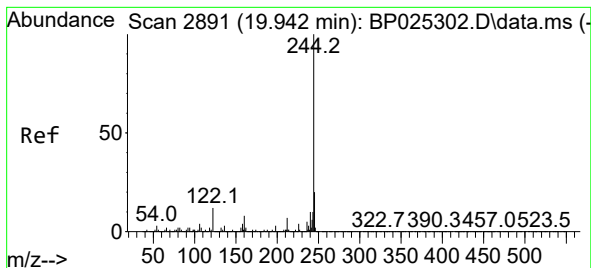
Ion Ratio Lower Upper

202 100

200 20.9 16.7 25.1

203 18.4 14.1 21.1





#79

Terphenyl-d14

Concen: 10.466 ng

RT: 19.936 min Scan# 21

Delta R.T. -0.006 min

Lab File: BP025339.D

Acq: 08 Aug 2025 19:24

Instrument :

BNA_P

ClientSampleId :

TR-04-080725

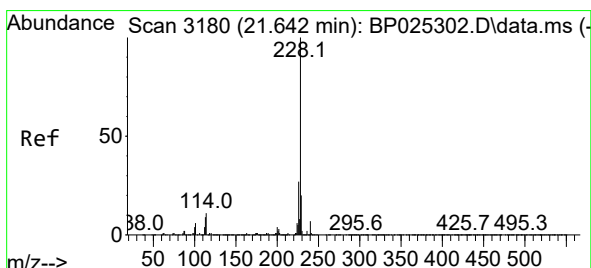
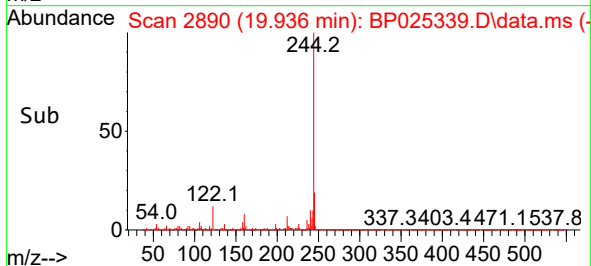
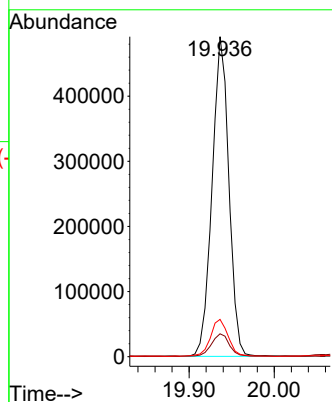
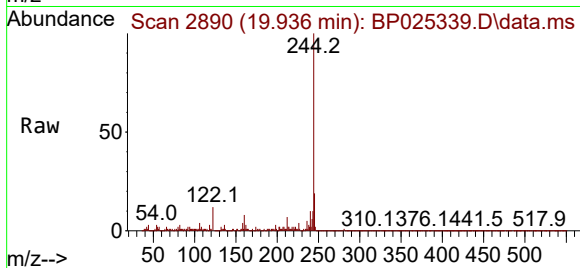
Tgt Ion:244 Resp: 672684

Ion Ratio Lower Upper

244 100

212 7.2 5.9 8.9

122 11.7 9.5 14.3



#81

Benzo(a)anthracene

Concen: 26.254 ng

RT: 21.642 min Scan# 3180

Delta R.T. 0.000 min

Lab File: BP025339.D

Acq: 08 Aug 2025 19:24

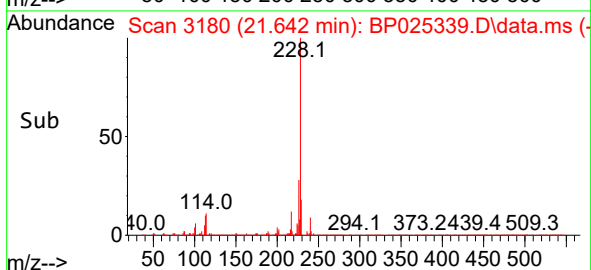
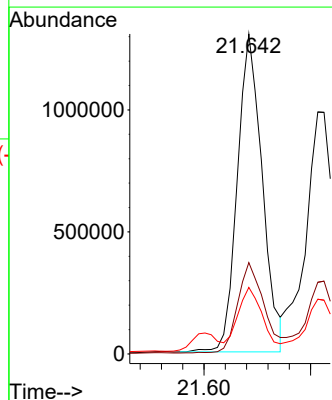
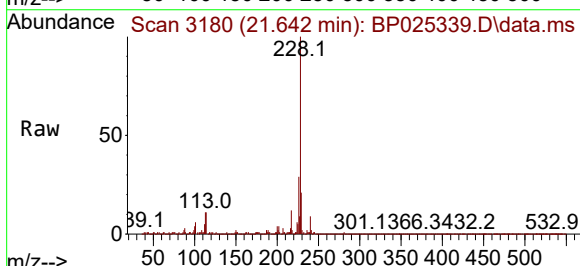
Tgt Ion:228 Resp: 2117992

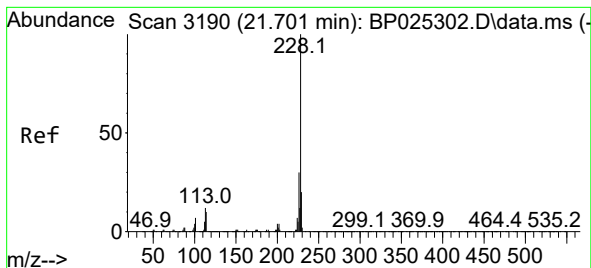
Ion Ratio Lower Upper

228 100

226 28.5 21.8 32.8

229 20.8 16.0 24.0





#83

Chrysene

Concen: 23.653 ng

RT: 21.707 min Scan# 31

Delta R.T. 0.006 min

Lab File: BP025339.D

Acq: 08 Aug 2025 19:24

Instrument :

BNA_P

ClientSampleId :

TR-04-080725

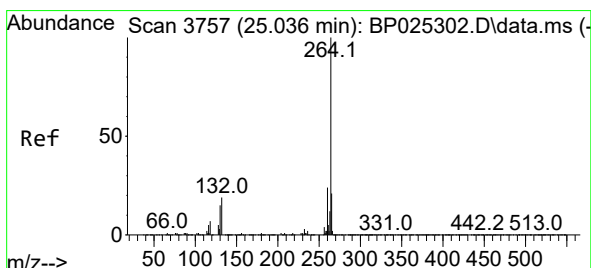
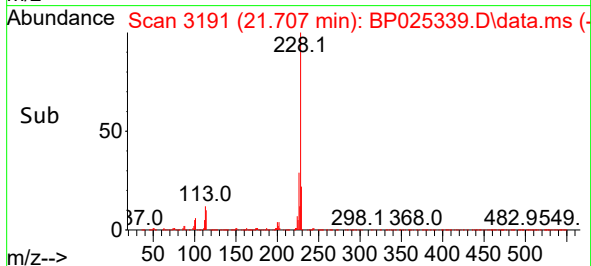
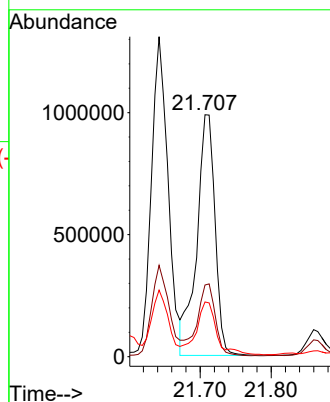
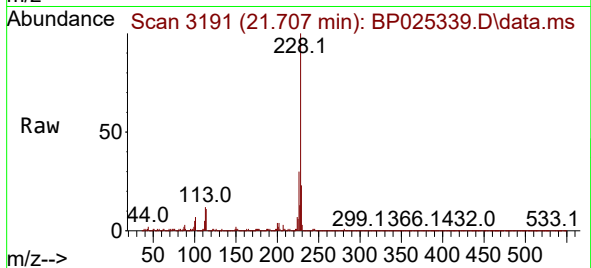
Tgt Ion:228 Resp: 1769803

Ion Ratio Lower Upper

228 100

226 29.6 24.3 36.5

229 22.6 15.9 23.9



#86

Perylene-d12

Concen: 20.000 ng

RT: 25.054 min Scan# 3760

Delta R.T. 0.018 min

Lab File: BP025339.D

Acq: 08 Aug 2025 19:24

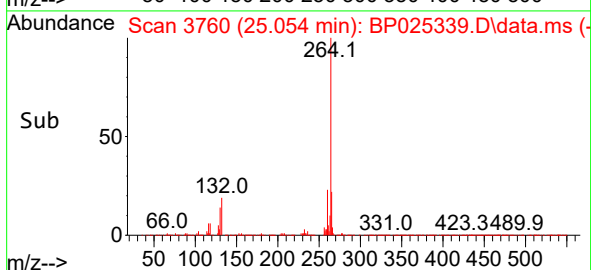
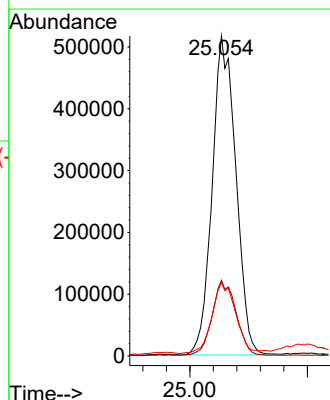
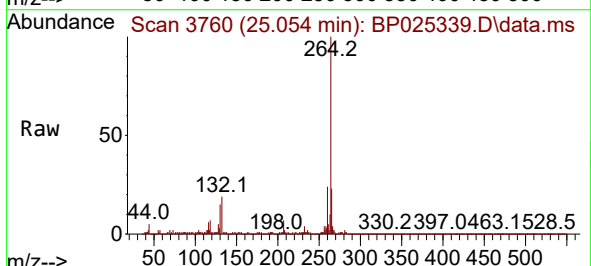
Tgt Ion:264 Resp: 1442249

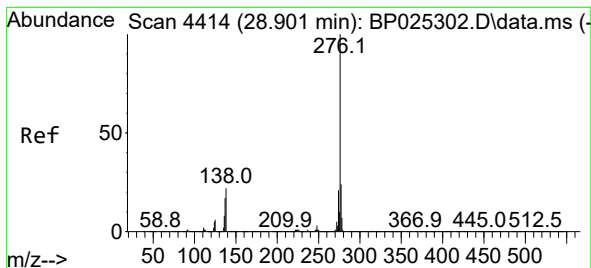
Ion Ratio Lower Upper

264 100

260 23.7 19.2 28.8

265 23.0 17.1 25.7





#87

Indeno(1,2,3-cd)pyrene

Concen: 10.875 ng

RT: 28.924 min Scan# 4414

Delta R.T. 0.023 min

Lab File: BP025339.D

Acq: 08 Aug 2025 19:24

Instrument :

BNA_P

ClientSampleId :

TR-04-080725

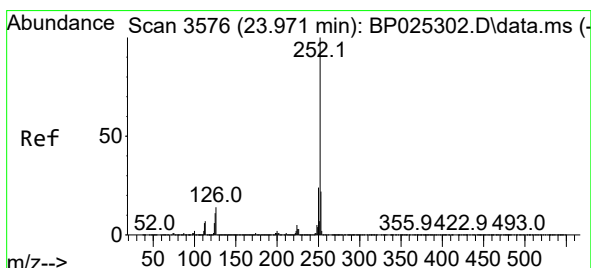
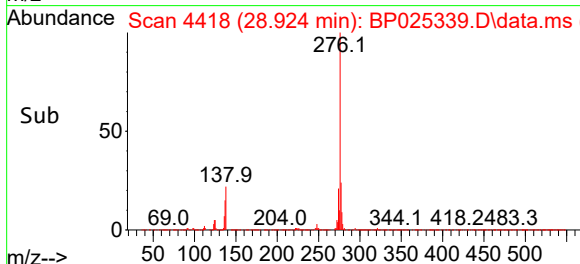
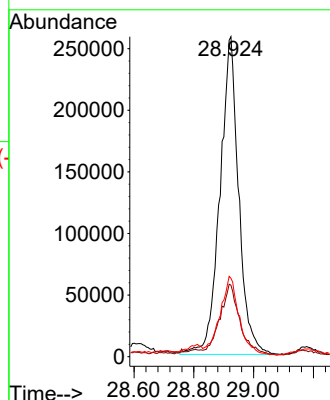
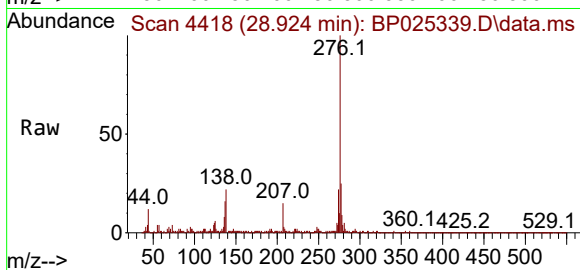
Tgt Ion:276 Resp: 1124202

Ion Ratio Lower Upper

276 100

138 24.0 14.6 22.0#

277 25.1 16.8 25.2



#88

Benzo(b)fluoranthene

Concen: 25.226 ng

RT: 23.983 min Scan# 3578

Delta R.T. 0.012 min

Lab File: BP025339.D

Acq: 08 Aug 2025 19:24

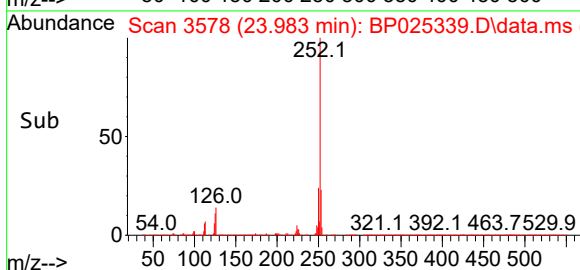
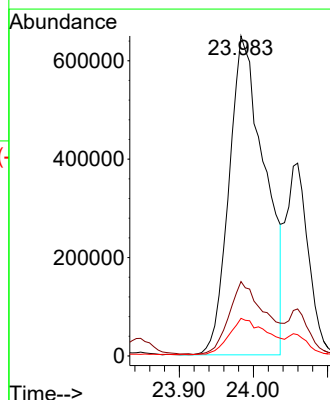
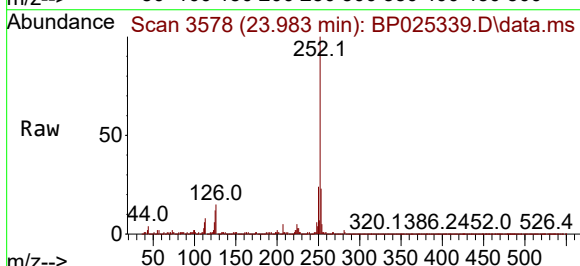
Tgt Ion:252 Resp: 2177932

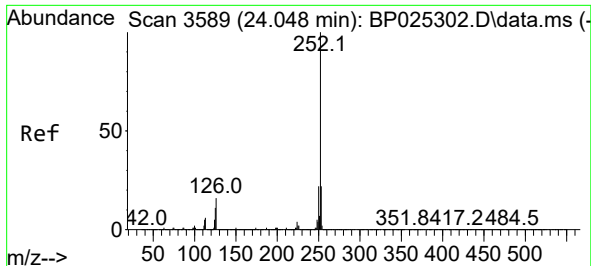
Ion Ratio Lower Upper

252 100

253 23.2 17.5 26.3

125 11.7 8.5 12.7

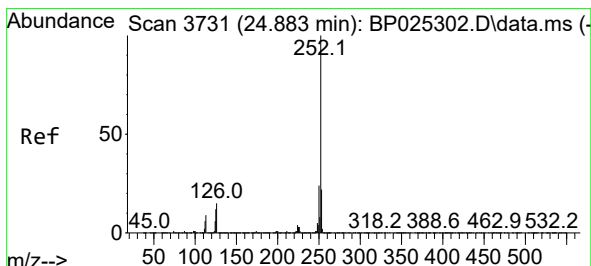
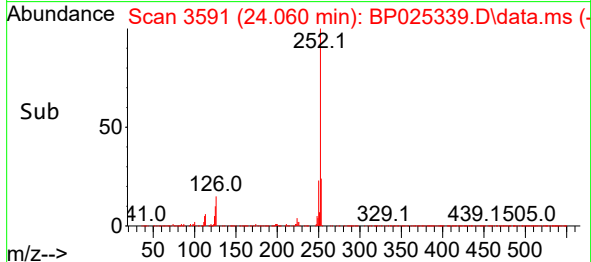
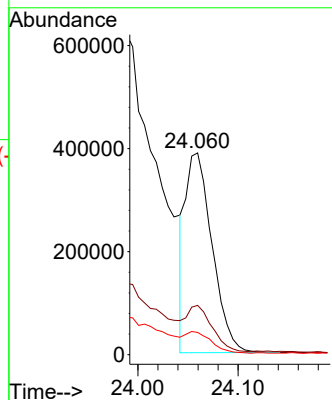
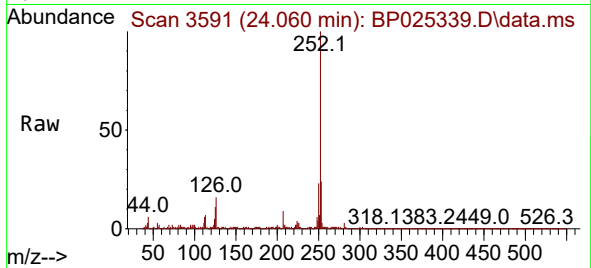




#89
Benzo(k)fluoranthene
Concen: 8.319 ng
RT: 24.060 min Scan# 31
Delta R.T. 0.012 min
Lab File: BP025339.D
Acq: 08 Aug 2025 19:24

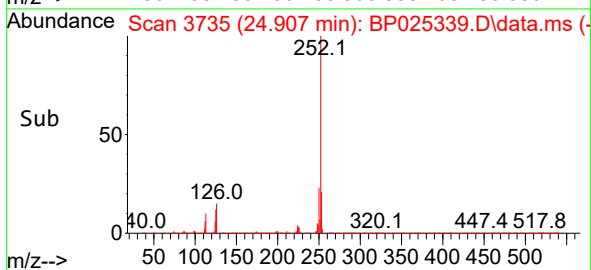
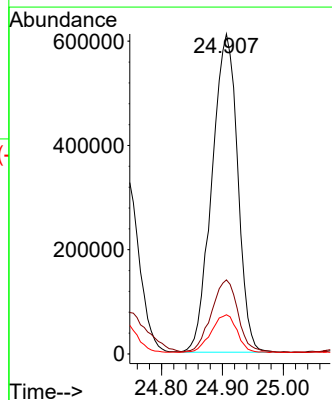
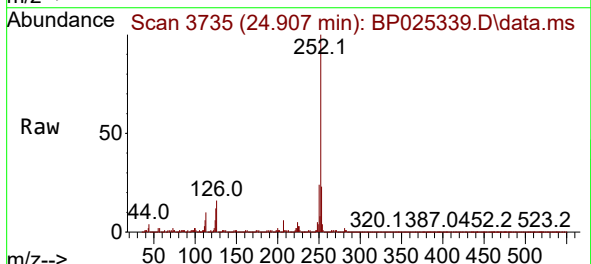
Instrument :
BNA_P
ClientSampleId :
TR-04-080725

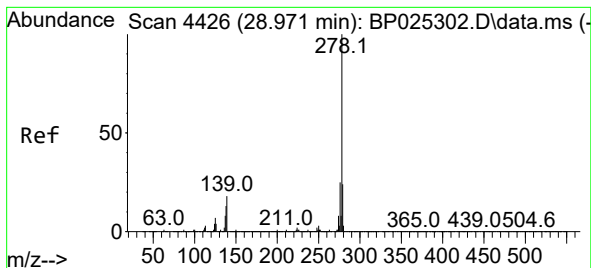
Tgt Ion:252 Resp: 712005
Ion Ratio Lower Upper
252 100
253 24.4 17.6 26.4
125 11.1 8.5 12.7



#90
Benzo(a)pyrene
Concen: 21.519 ng
RT: 24.907 min Scan# 3735
Delta R.T. 0.024 min
Lab File: BP025339.D
Acq: 08 Aug 2025 19:24

Tgt Ion:252 Resp: 1789132
Ion Ratio Lower Upper
252 100
253 23.2 17.6 26.4
125 12.2 9.4 14.0





#91

Dibenzo(a,h)anthracene

Concen: 3.460 ng

RT: 28.989 min Scan# 4426

Delta R.T. 0.018 min

Lab File: BP025339.D

Acq: 08 Aug 2025 19:24

Instrument :

BNA_P

ClientSampleId :

TR-04-080725

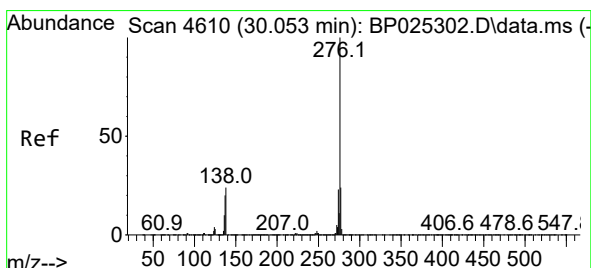
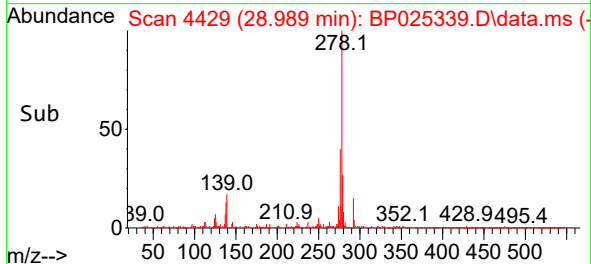
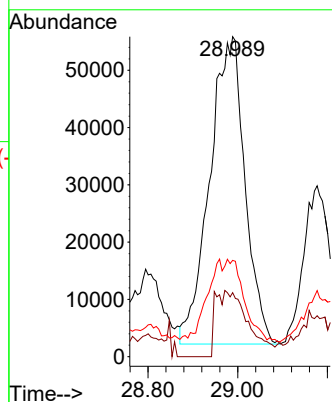
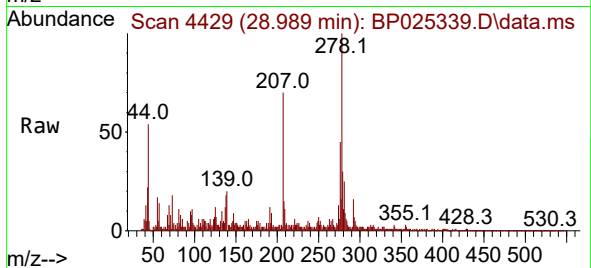
Tgt Ion:278 Resp: 292906

Ion Ratio Lower Upper

278 100

139 20.0 14.6 22.0

279 30.1 19.0 28.4#



#92

Benzo(g,h,i)perylene

Concen: 12.185 ng

RT: 30.112 min Scan# 4620

Delta R.T. 0.059 min

Lab File: BP025339.D

Acq: 08 Aug 2025 19:24

Tgt Ion:276 Resp: 1012428

Ion Ratio Lower Upper

276 100

277 24.1 19.3 28.9

138 23.5 19.1 28.7

