

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP061925\
 Data File : BP025009.D
 Acq On : 19 Jun 2025 20:30
 Operator : RC/JU
 Sample : Q2357-01 2X
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 TR-06-06182025

Quant Time: Jun 20 01:15:07 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP060625.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 06 16:20:27 2025
 Response via : Initial Calibration

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

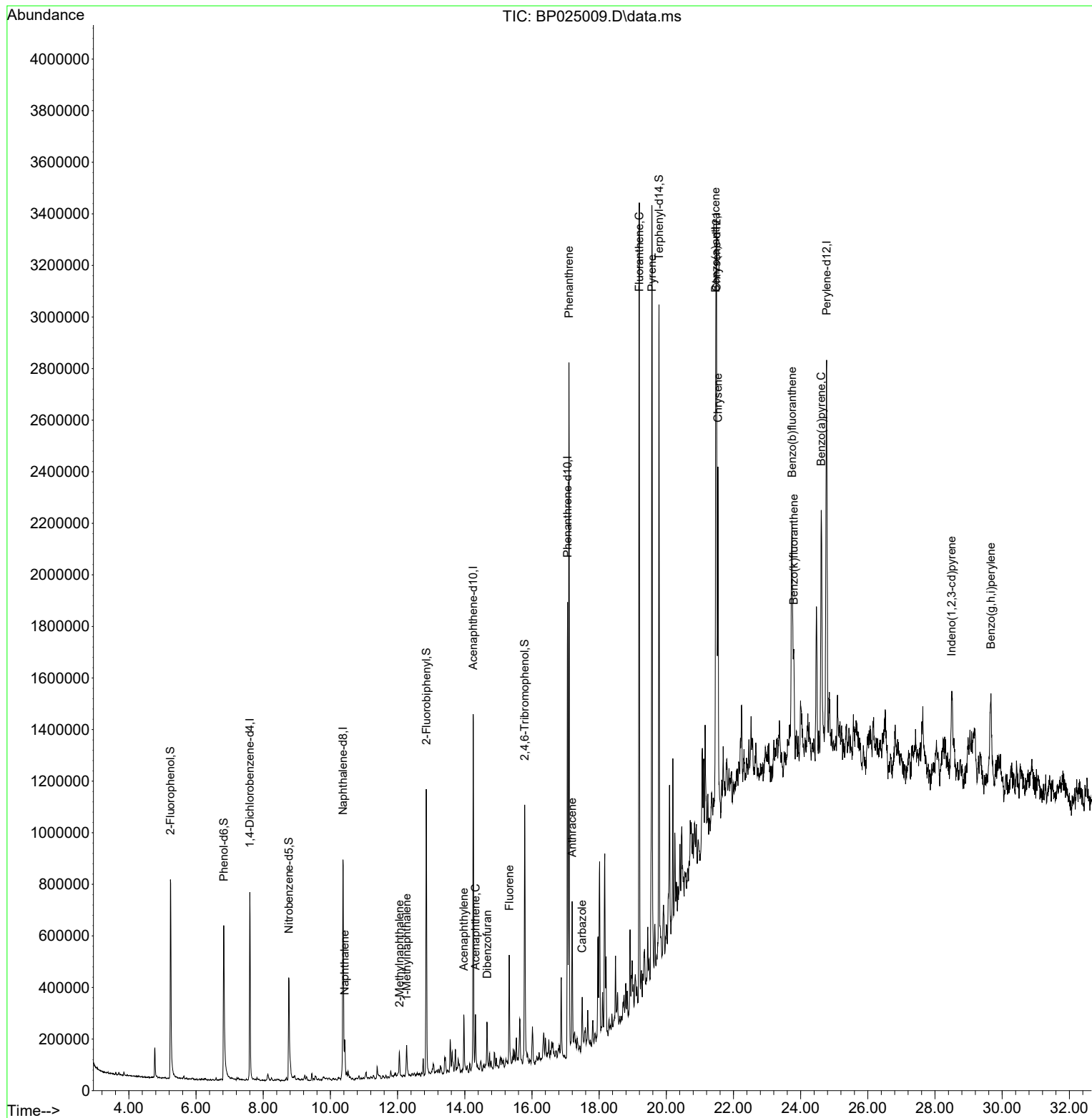
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.602	152	213579	20.000	ng	-0.01
21) Naphthalene-d8	10.372	136	816738	20.000	ng	0.00
39) Acenaphthene-d10	14.248	164	499060	20.000	ng	0.00
64) Phenanthrene-d10	17.060	188	1012481	20.000	ng	0.00
76) Chrysene-d12	21.495	240	1236779	20.000	ng	0.01
86) Perylene-d12	24.771	264	1528615	20.000	ng	0.05
System Monitoring Compounds						
5) 2-Fluorophenol	5.237	112	459415	35.905	ng	0.00
7) Phenol-d6	6.825	99	561311	33.156	ng	0.01
23) Nitrobenzene-d5	8.760	82	330630	19.671	ng	0.00
42) 2,4,6-Tribromophenol	15.783	330	235862	34.184	ng	0.00
45) 2-Fluorobiphenyl	12.854	172	660714	17.835	ng	0.00
79) Terphenyl-d14	19.783	244	1194970	17.317	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	10.425	128	119467	2.854	ng	98
37) 2-Methylnaphthalene	12.054	142	61982	2.335	ng	98
38) 1-Methylnaphthalene	12.266	142	66417m	2.340	ng	
49) Acenaphthylene	13.972	152	147295	3.169	ng	96
52) Acenaphthene	14.319	154	74261	2.788	ng	98
55) Dibenzofuran	14.666	168	96683	2.262	ng	# 97
58) Fluorene	15.325	166	195588	5.663	ng	99
71) Phenanthrene	17.101	178	1589026	28.400	ng	99
72) Anthracene	17.195	178	392831	6.932	ng	99
73) Carbazole	17.495	167	114428	2.179	ng	95
75) Fluoranthene	19.195	202	1967486	30.339	ng	99
78) Pyrene	19.572	202	1872120	24.229	ng	99
81) Benzo(a)anthracene	21.471	228	899066	11.366	ng	99
83) Chrysene	21.536	228	838368	11.185	ng	95
87) Indeno(1,2,3-cd)pyrene	28.495	276	563465	5.052	ng	97
88) Benzo(b)fluoranthene	23.742	252	1055313	12.063	ng	# 94
89) Benzo(k)fluoranthene	23.795	252	395945m	4.446	ng	
90) Benzo(a)pyrene	24.612	252	853685	9.992	ng	98
92) Benzo(g,h,i)perylene	29.665	276	584852	6.493	ng	# 96

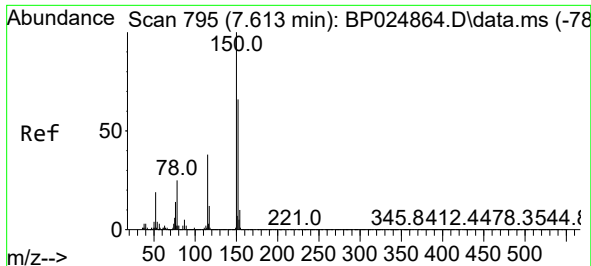
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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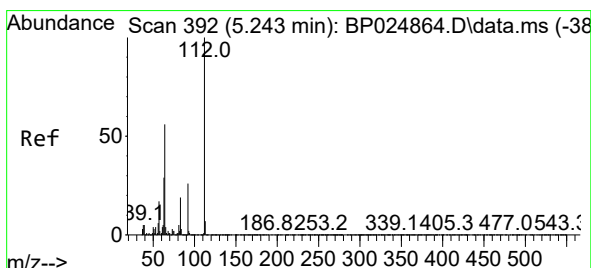
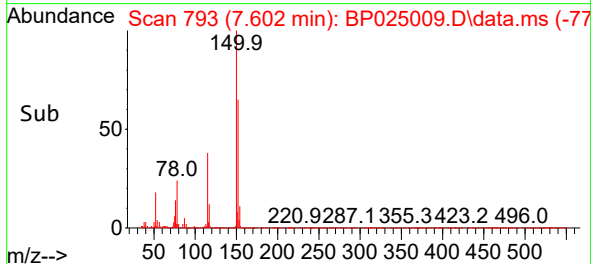
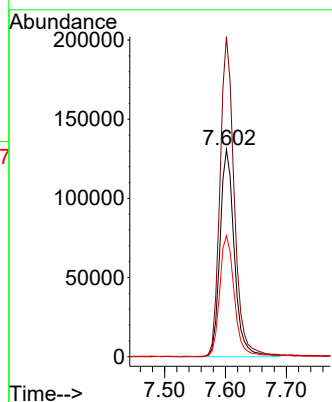
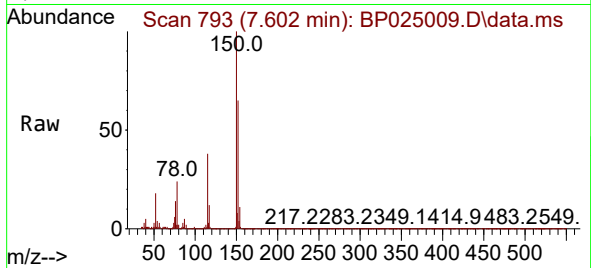




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.602 min Scan# 795
Delta R.T. -0.011 min
Lab File: BP025009.D
Acq: 19 Jun 2025 20:30

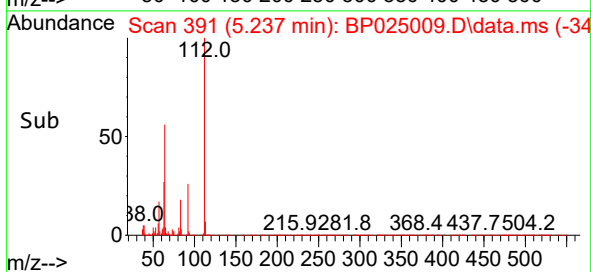
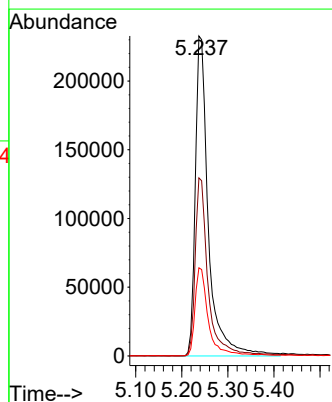
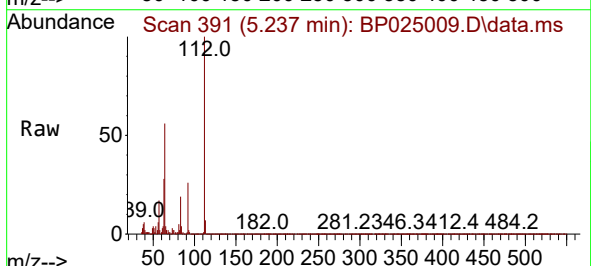
Instrument :
BNA_P
ClientSampleId :
TR-06-06182025

Tgt Ion:152 Resp: 213579
Ion Ratio Lower Upper
152 100
150 154.7 122.1 183.1
115 58.5 46.4 69.6



#5
2-Fluorophenol
Concen: 35.905 ng
RT: 5.237 min Scan# 391
Delta R.T. -0.006 min
Lab File: BP025009.D
Acq: 19 Jun 2025 20:30

Tgt Ion:112 Resp: 459415
Ion Ratio Lower Upper
112 100
64 55.7 44.7 67.1
63 27.5 23.5 35.3

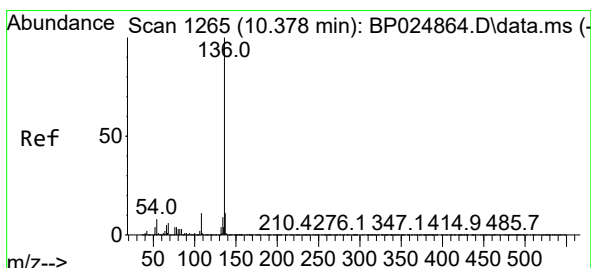
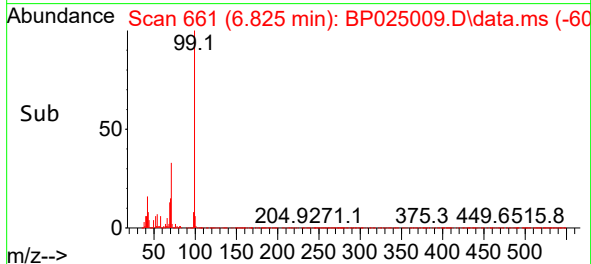
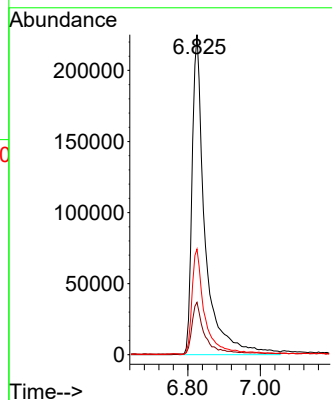
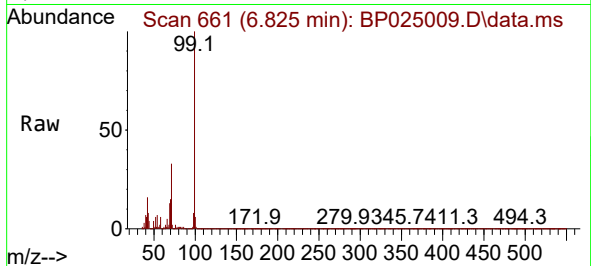




#7
Phenol-d6
Concen: 33.156 ng
RT: 6.825 min Scan# 60
Delta R.T. 0.012 min
Lab File: BP025009.D
Acq: 19 Jun 2025 20:30

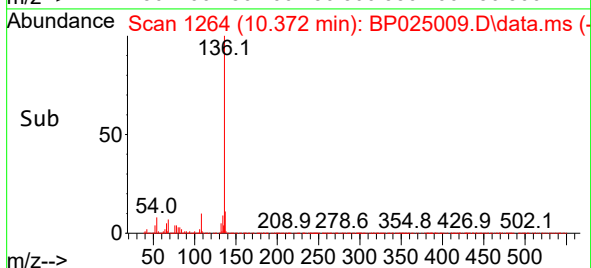
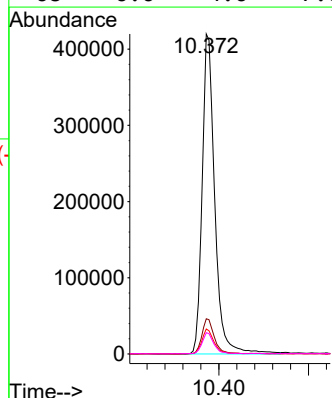
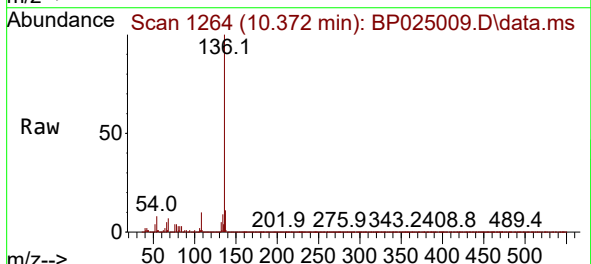
Instrument :
BNA_P
ClientSampleId :
TR-06-06182025

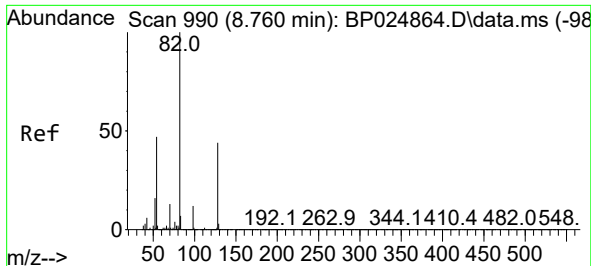
Tgt Ion: 99 Resp: 561311
Ion Ratio Lower Upper
99 100
42 16.3 13.4 20.2
71 33.0 27.6 41.4



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.372 min Scan# 1264
Delta R.T. -0.006 min
Lab File: BP025009.D
Acq: 19 Jun 2025 20:30

Tgt Ion: 136 Resp: 816738
Ion Ratio Lower Upper
136 100
137 11.0 8.9 13.3
54 7.8 6.1 9.1
68 6.6 4.6 7.0

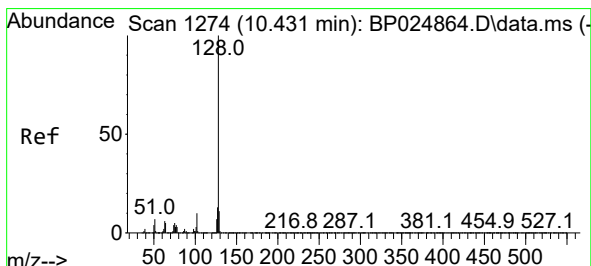
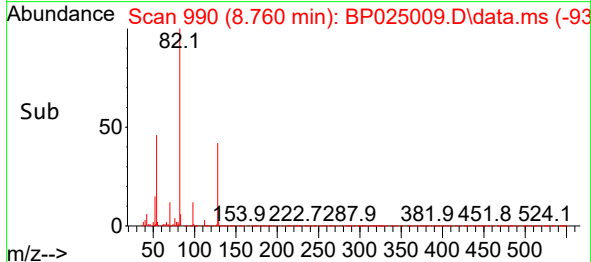
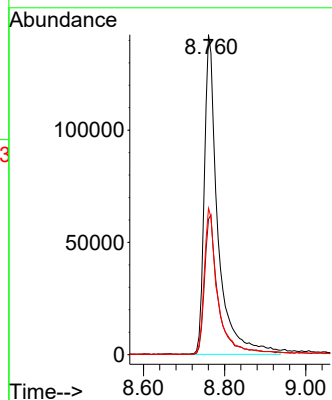
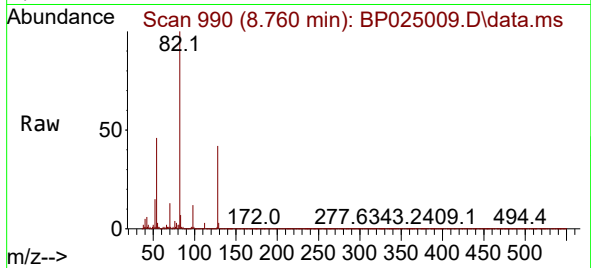




#23
Nitrobenzene-d5
Concen: 19.671 ng
RT: 8.760 min Scan# 990
Delta R.T. -0.000 min
Lab File: BP025009.D
Acq: 19 Jun 2025 20:30

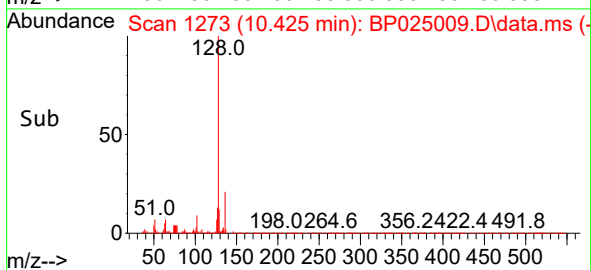
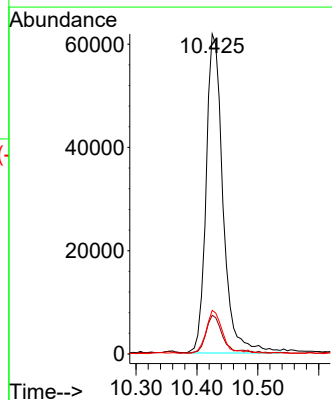
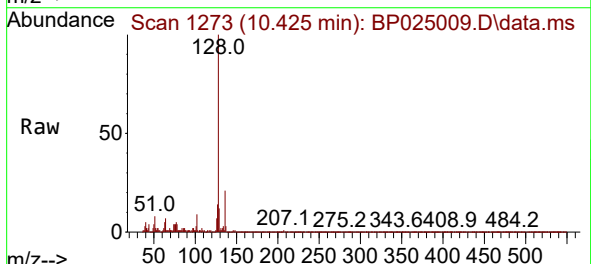
Instrument :
BNA_P
ClientSampleId :
TR-06-06182025

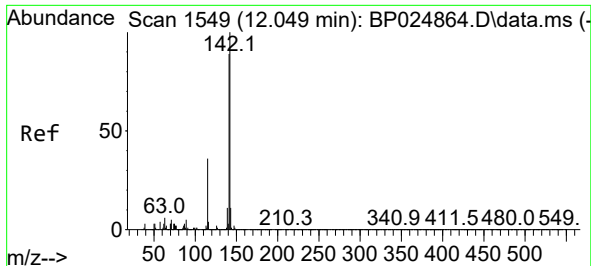
Tgt Ion: 82 Resp: 330630
Ion Ratio Lower Upper
82 100
128 42.4 35.3 52.9
54 45.8 37.4 56.0



#31
Naphthalene
Concen: 2.854 ng
RT: 10.425 min Scan# 1273
Delta R.T. -0.006 min
Lab File: BP025009.D
Acq: 19 Jun 2025 20:30

Tgt Ion: 128 Resp: 119467
Ion Ratio Lower Upper
128 100
129 12.1 8.7 13.1
127 13.6 10.7 16.1

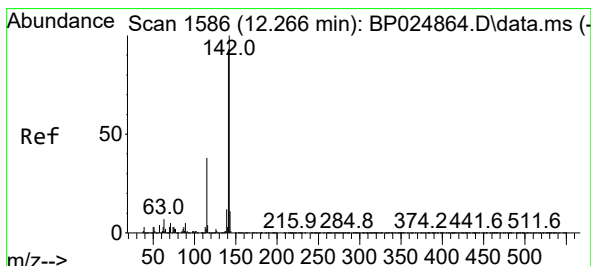
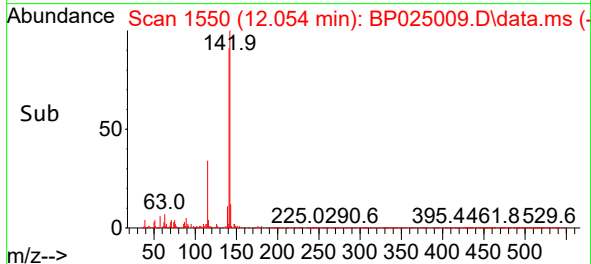
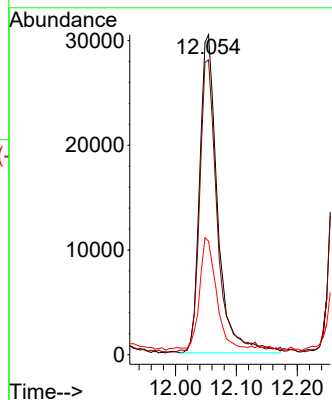
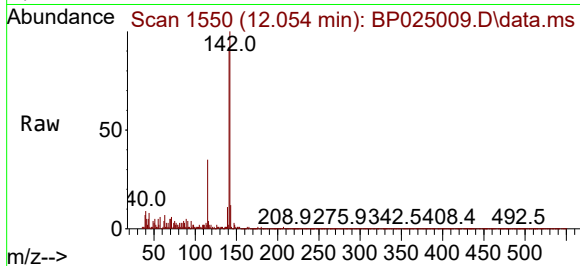




#37
2-Methylnaphthalene
Concen: 2.335 ng
RT: 12.054 min Scan# 1550
Delta R.T. 0.006 min
Lab File: BP025009.D
Acq: 19 Jun 2025 20:30

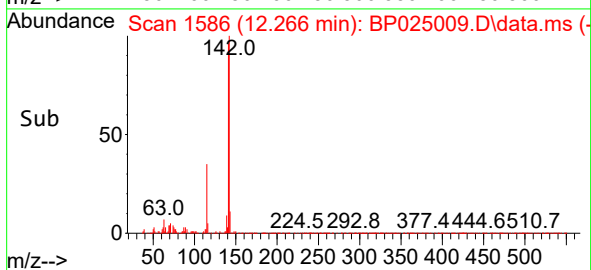
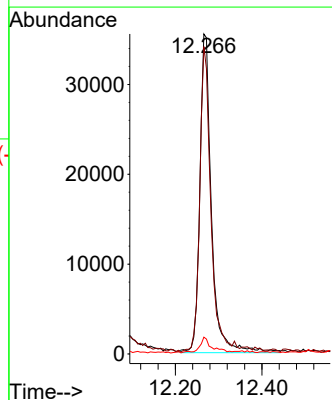
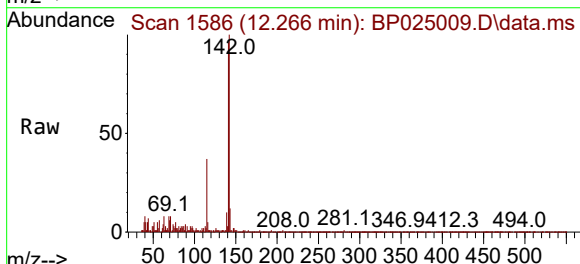
Instrument :
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ClientSampleId :
TR-06-06182025

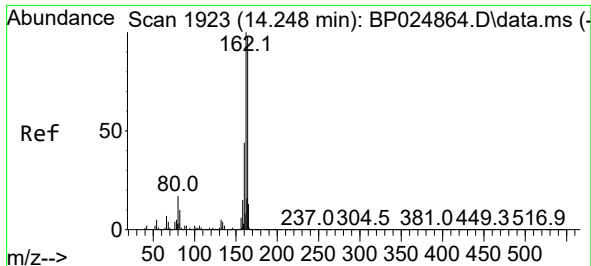
Tgt Ion:142 Resp: 61982
Ion Ratio Lower Upper
142 100
141 92.1 71.2 106.8
115 35.4 28.5 42.7



#38
1-Methylnaphthalene
Concen: 2.340 ng m
RT: 12.266 min Scan# 1586
Delta R.T. -0.000 min
Lab File: BP025009.D
Acq: 19 Jun 2025 20:30

Tgt Ion:142 Resp: 66417
Ion Ratio Lower Upper
142 100
141 96.1 74.7 112.1
116 5.2 3.4 5.0#

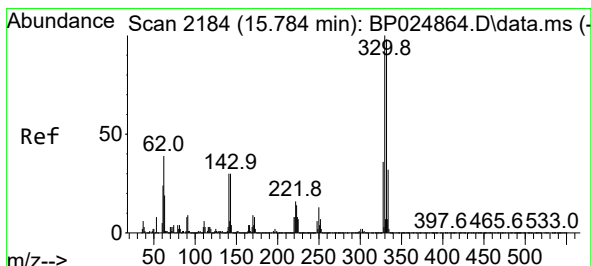
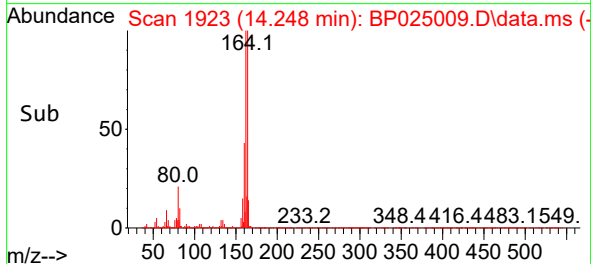
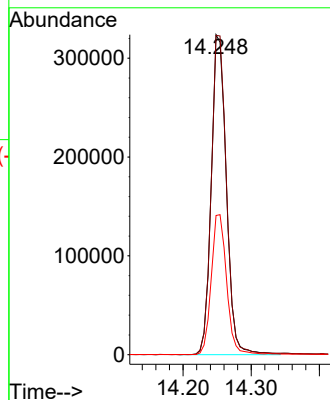
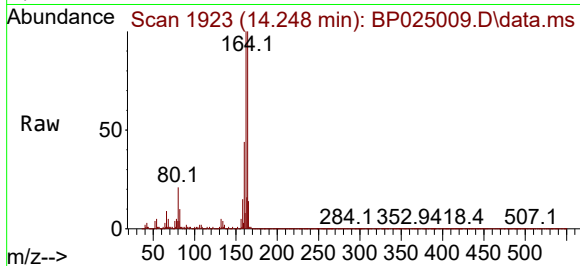




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.248 min Scan# 1923
Delta R.T. -0.000 min
Lab File: BP025009.D
Acq: 19 Jun 2025 20:30

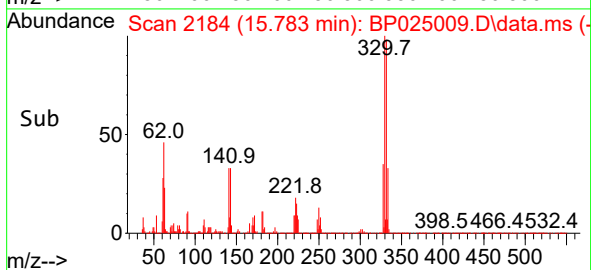
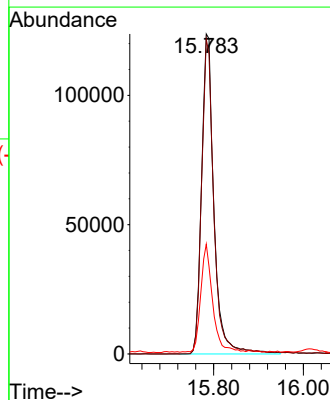
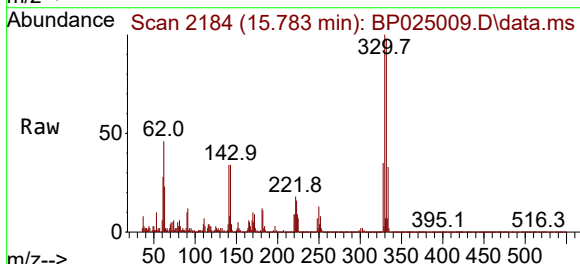
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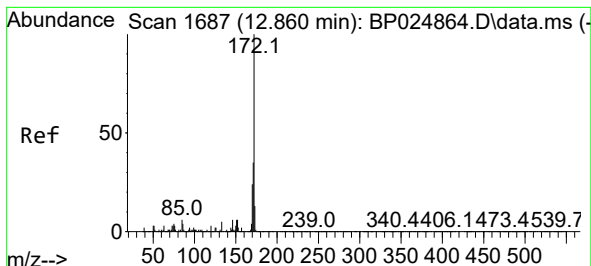
Tgt Ion:164 Resp: 499060
Ion Ratio Lower Upper
164 100
162 99.8 81.6 122.4
160 43.5 36.2 54.2



#42
2,4,6-Tribromophenol
Concen: 34.184 ng
RT: 15.783 min Scan# 2184
Delta R.T. -0.000 min
Lab File: BP025009.D
Acq: 19 Jun 2025 20:30

Tgt Ion:330 Resp: 235862
Ion Ratio Lower Upper
330 100
332 96.8 77.7 116.5
141 32.4 26.4 39.6

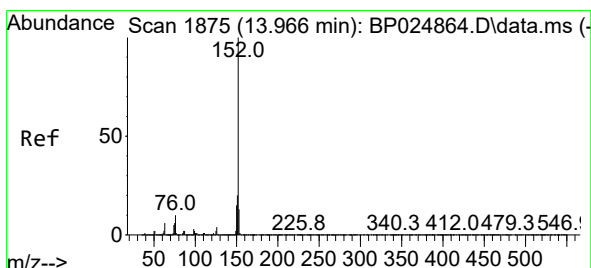
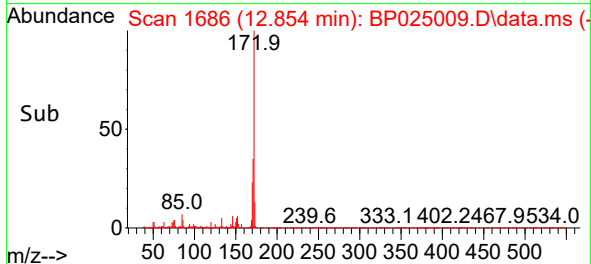
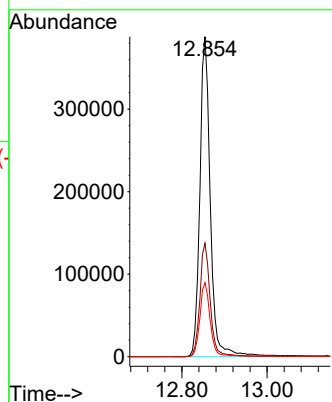
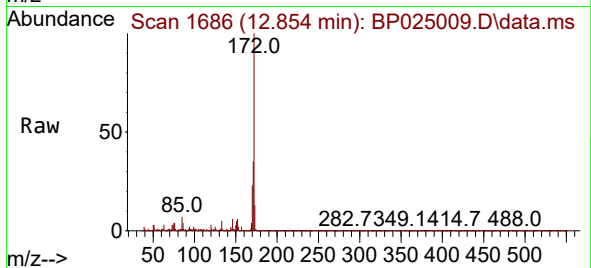




#45
2-Fluorobiphenyl
Concen: 17.835 ng
RT: 12.854 min Scan# 1686
Delta R.T. -0.006 min
Lab File: BP025009.D
Acq: 19 Jun 2025 20:30

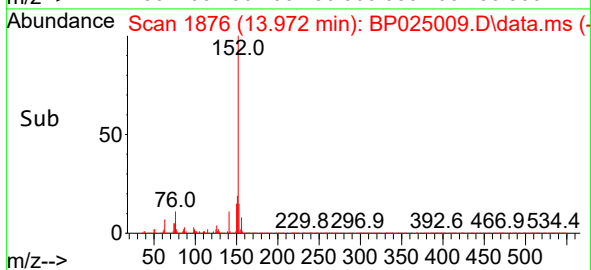
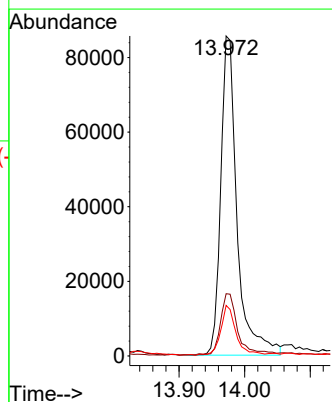
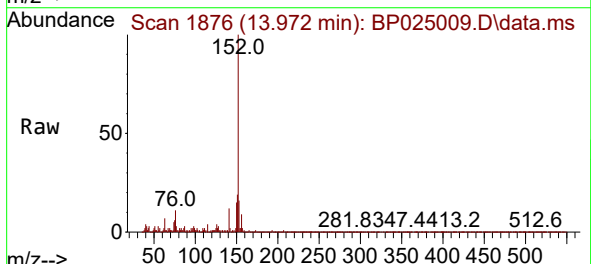
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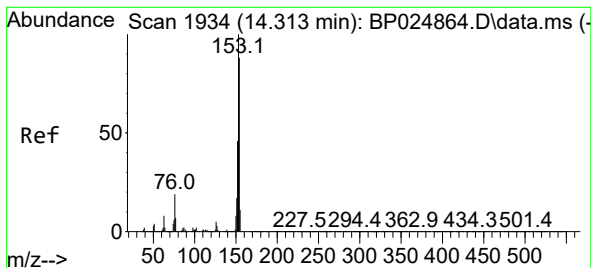
Tgt Ion:172 Resp: 660714
Ion Ratio Lower Upper
172 100
171 35.4 28.3 42.5
170 23.2 19.0 28.4



#49
Acenaphthylene
Concen: 3.169 ng
RT: 13.972 min Scan# 1876
Delta R.T. 0.006 min
Lab File: BP025009.D
Acq: 19 Jun 2025 20:30

Tgt Ion:152 Resp: 147295
Ion Ratio Lower Upper
152 100
151 19.5 16.2 24.2
153 15.8 10.6 15.8





#52

Acenaphthene

Concen: 2.788 ng

RT: 14.319 min Scan# 1934

Delta R.T. 0.006 min

Lab File: BP025009.D

Acq: 19 Jun 2025 20:30

Instrument :

BNA_P

ClientSampleId :

TR-06-06182025

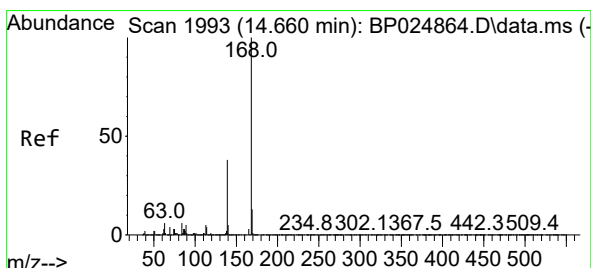
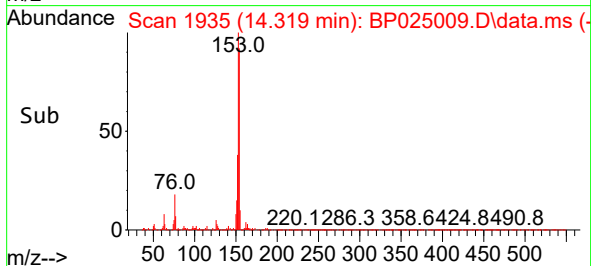
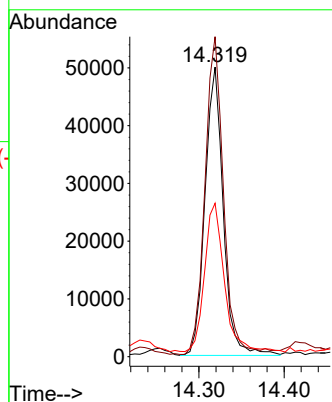
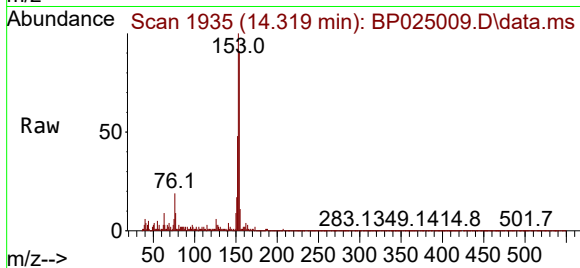
Tgt Ion:154 Resp: 74261

Ion Ratio Lower Upper

154 100

153 110.5 90.5 135.7

152 53.0 42.1 63.1



#55

Dibenzofuran

Concen: 2.262 ng

RT: 14.666 min Scan# 1994

Delta R.T. 0.006 min

Lab File: BP025009.D

Acq: 19 Jun 2025 20:30

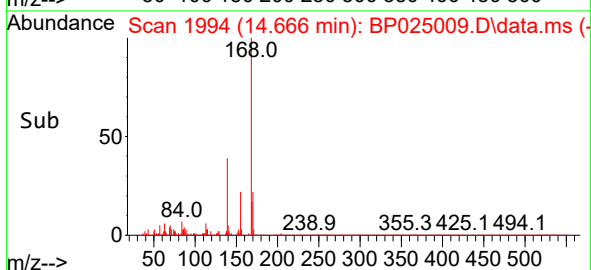
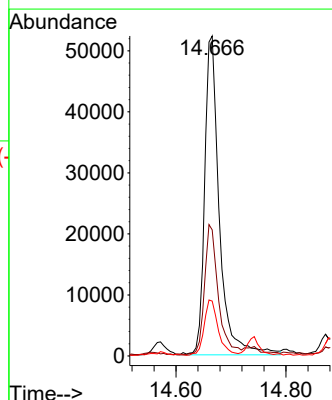
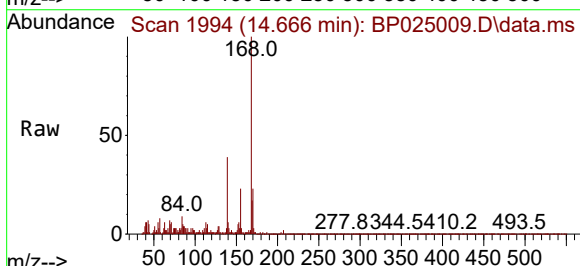
Tgt Ion:168 Resp: 96683

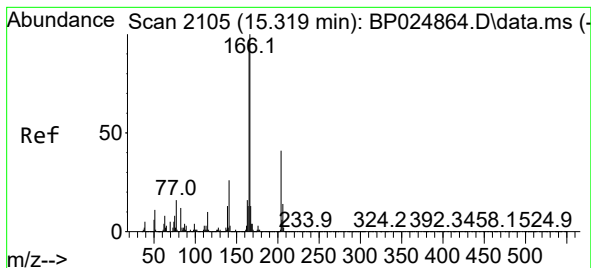
Ion Ratio Lower Upper

168 100

139 39.4 31.6 47.4

169 17.2 10.6 15.8#





#58

Fluorene

Concen: 5.663 ng

RT: 15.325 min Scan# 2105

Delta R.T. 0.006 min

Lab File: BP025009.D

Acq: 19 Jun 2025 20:30

Instrument :

BNA_P

ClientSampleId :

TR-06-06182025

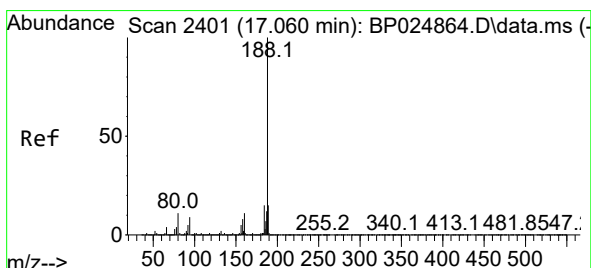
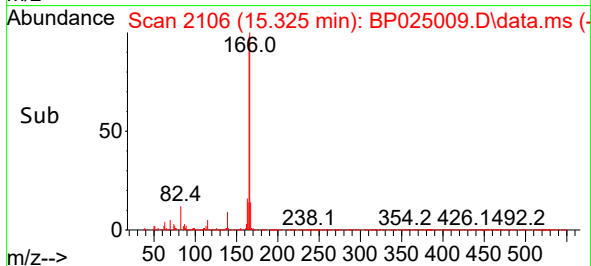
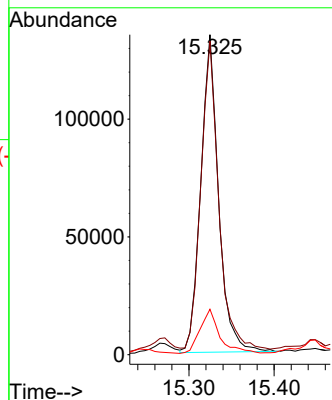
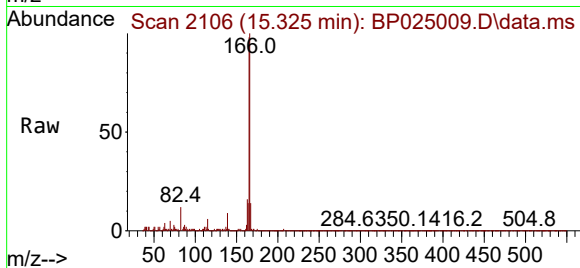
Tgt Ion:166 Resp: 195588

Ion Ratio Lower Upper

166 100

165 98.0 77.7 116.5

167 14.2 10.6 16.0



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.060 min Scan# 2401

Delta R.T. -0.000 min

Lab File: BP025009.D

Acq: 19 Jun 2025 20:30

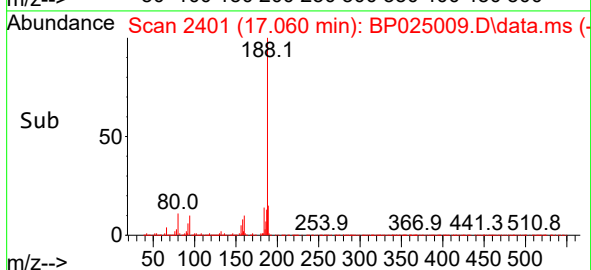
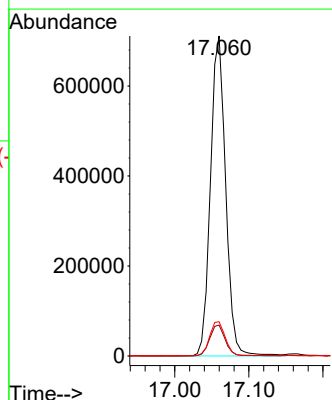
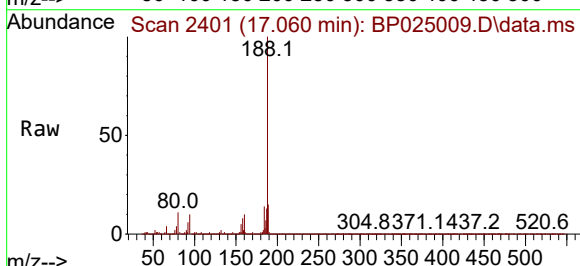
Tgt Ion:188 Resp: 1012481

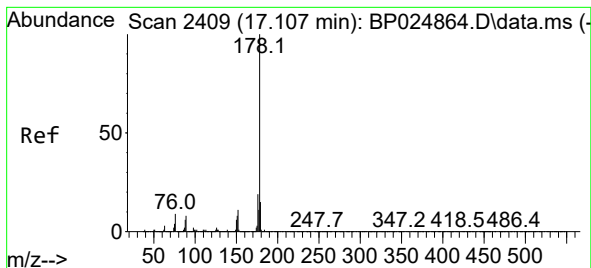
Ion Ratio Lower Upper

188 100

94 9.7 7.3 10.9

80 10.7 8.5 12.7





#71

Phenanthrene

Concen: 28.400 ng

RT: 17.101 min Scan# 2408

Delta R.T. -0.006 min

Lab File: BP025009.D

Acq: 19 Jun 2025 20:30

Instrument :

BNA_P

ClientSampleId :

TR-06-06182025

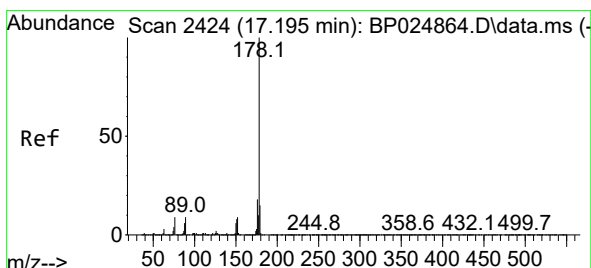
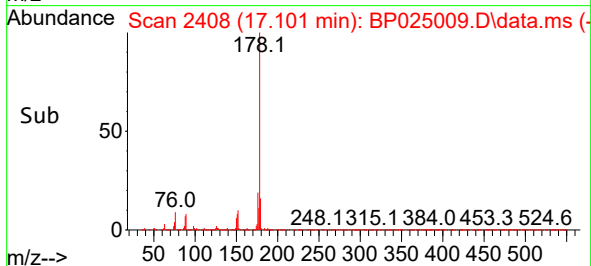
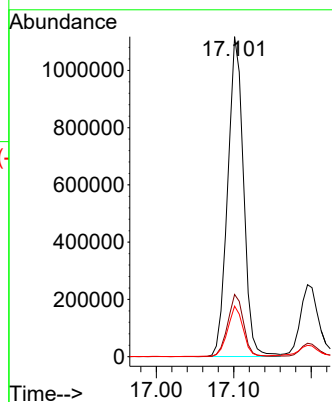
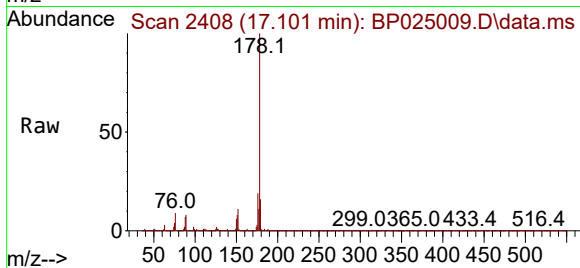
Tgt Ion:178 Resp: 1589026

Ion Ratio Lower Upper

178 100

176 19.4 15.3 22.9

179 15.8 12.1 18.1



#72

Anthracene

Concen: 6.932 ng

RT: 17.195 min Scan# 2424

Delta R.T. -0.000 min

Lab File: BP025009.D

Acq: 19 Jun 2025 20:30

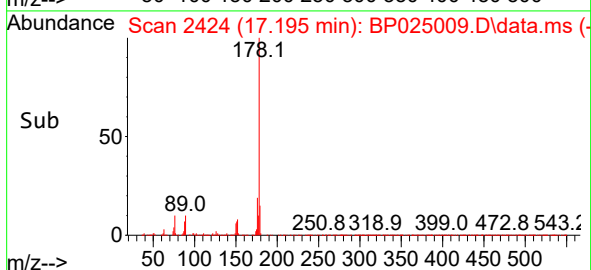
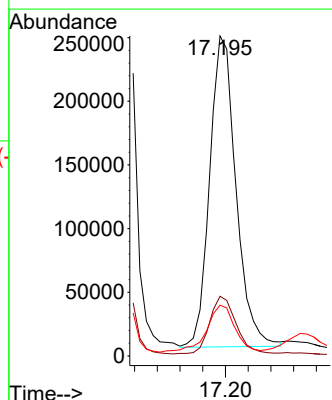
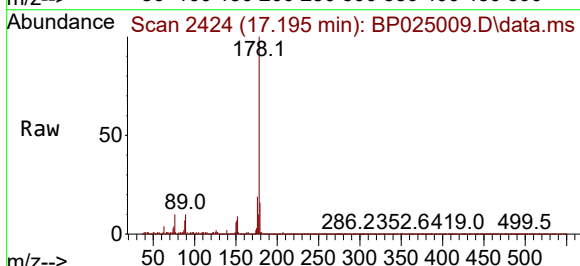
Tgt Ion:178 Resp: 392831

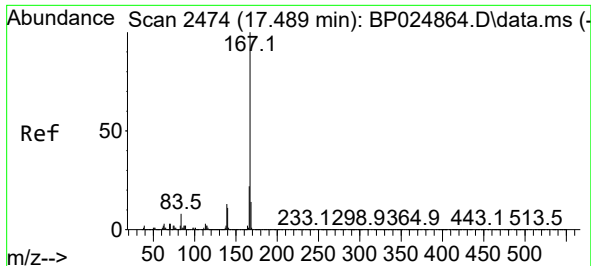
Ion Ratio Lower Upper

178 100

176 18.7 14.7 22.1

179 15.8 12.3 18.5

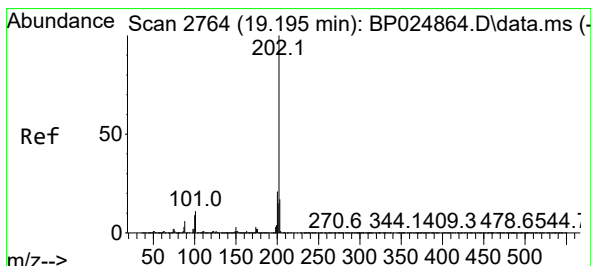
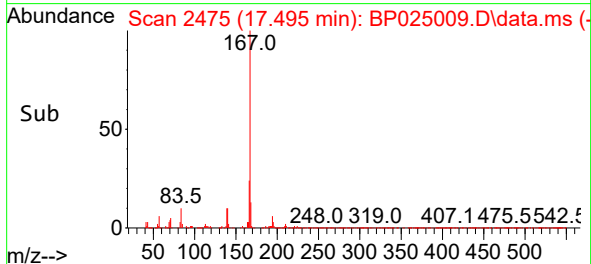
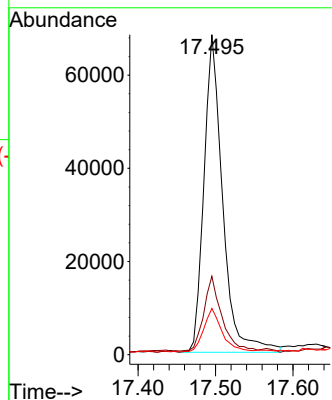
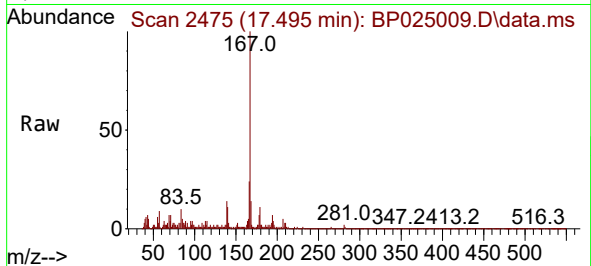




#73
 Carbazole
 Concen: 2.179 ng
 RT: 17.495 min Scan# 2474
 Delta R.T. 0.006 min
 Lab File: BP025009.D
 Acq: 19 Jun 2025 20:30

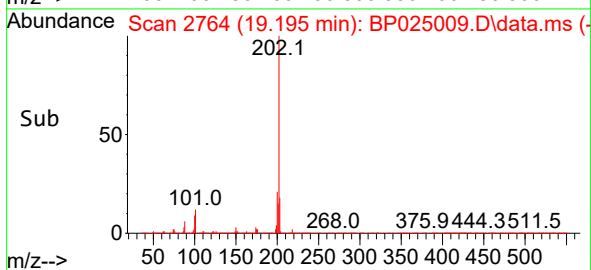
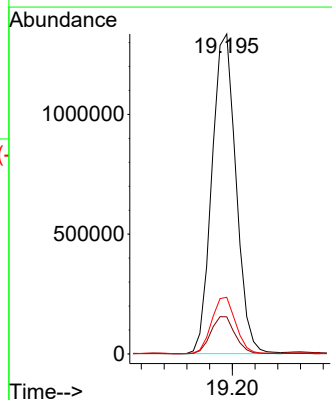
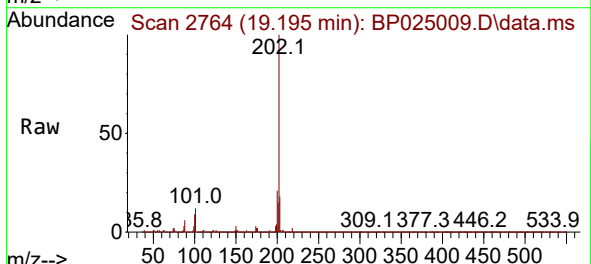
Instrument :
 BNA_P
 ClientSampleId :
 TR-06-06182025

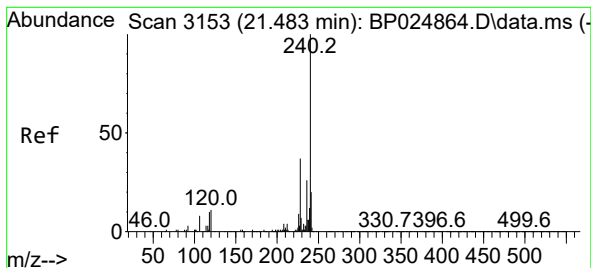
Tgt Ion:167 Resp: 114428
 Ion Ratio Lower Upper
 167 100
 166 24.5 17.3 25.9
 139 14.4 10.8 16.2



#75
 Fluoranthene
 Concen: 30.339 ng
 RT: 19.195 min Scan# 2764
 Delta R.T. -0.000 min
 Lab File: BP025009.D
 Acq: 19 Jun 2025 20:30

Tgt Ion:202 Resp: 1967486
 Ion Ratio Lower Upper
 202 100
 101 11.6 0.0 31.4
 203 17.7 0.0 37.5





#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.495 min Scan# 3155

Delta R.T. 0.012 min

Lab File: BP025009.D

Acq: 19 Jun 2025 20:30

Instrument :

BNA_P

ClientSampleId :

TR-06-06182025

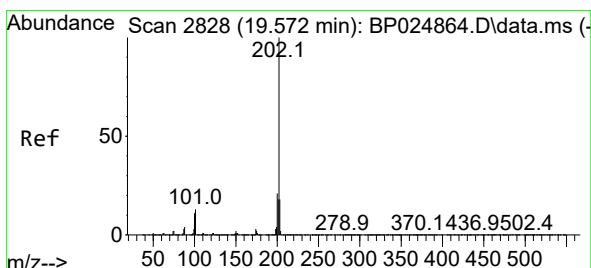
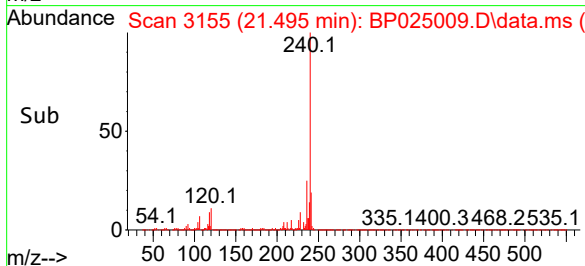
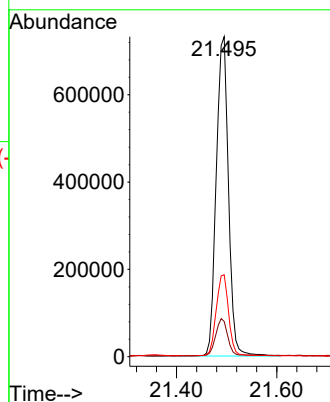
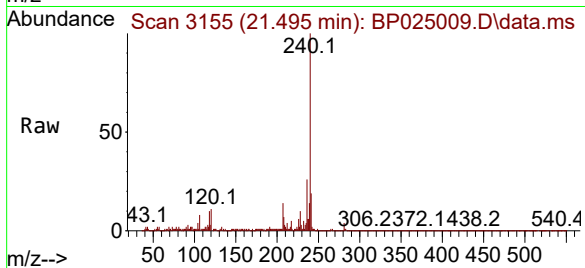
Tgt Ion:240 Resp: 1236779

Ion Ratio Lower Upper

240 100

120 11.0 8.9 13.3

236 25.6 20.9 31.3



#78

Pyrene

Concen: 24.229 ng

RT: 19.572 min Scan# 2828

Delta R.T. -0.000 min

Lab File: BP025009.D

Acq: 19 Jun 2025 20:30

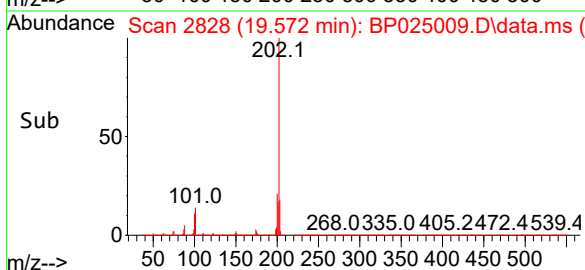
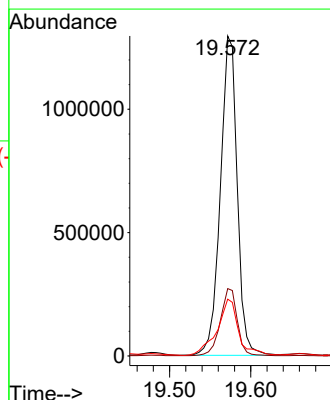
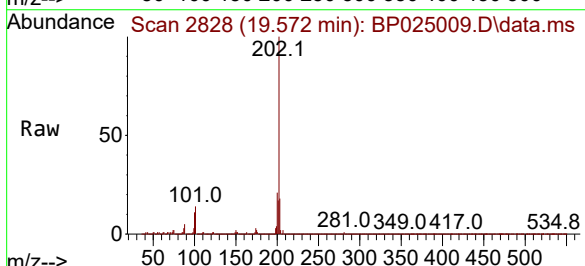
Tgt Ion:202 Resp: 1872120

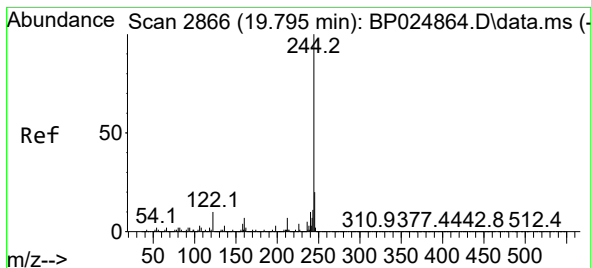
Ion Ratio Lower Upper

202 100

200 21.0 17.1 25.7

203 17.7 14.0 21.0





#79

Terphenyl-d14

Concen: 17.317 ng

RT: 19.783 min Scan# 21

Delta R.T. -0.012 min

Lab File: BP025009.D

Acq: 19 Jun 2025 20:30

Instrument :

BNA_P

ClientSampleId :

TR-06-06182025

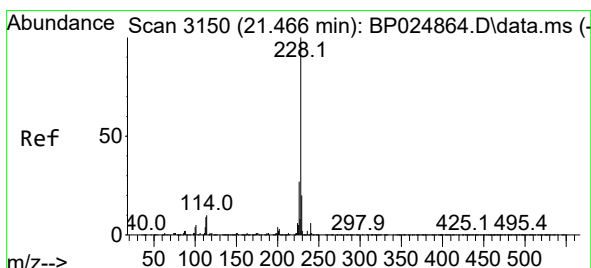
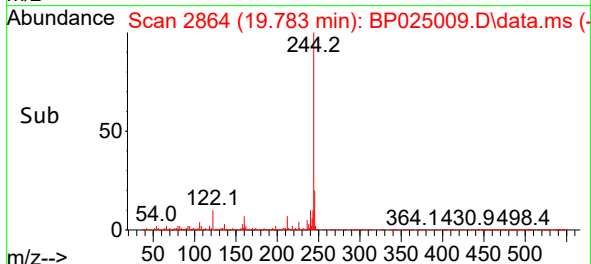
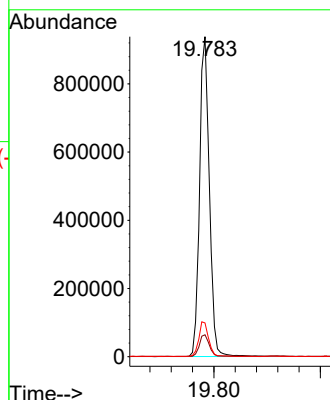
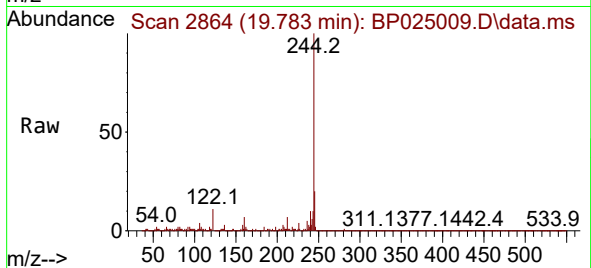
Tgt Ion:244 Resp: 1194970

Ion Ratio Lower Upper

244 100

212 6.9 5.6 8.4

122 10.6 7.7 11.5



#81

Benzo(a)anthracene

Concen: 11.366 ng

RT: 21.471 min Scan# 3151

Delta R.T. 0.006 min

Lab File: BP025009.D

Acq: 19 Jun 2025 20:30

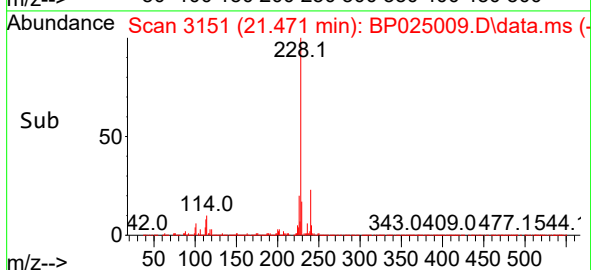
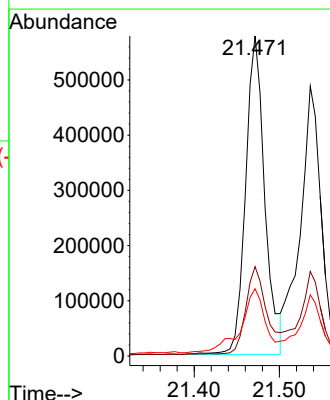
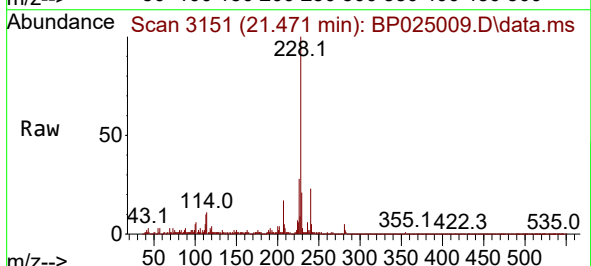
Tgt Ion:228 Resp: 899066

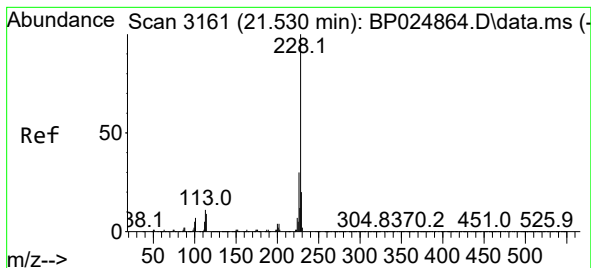
Ion Ratio Lower Upper

228 100

226 27.9 22.1 33.1

229 21.0 15.9 23.9





#83

Chrysene

Concen: 11.185 ng

RT: 21.536 min Scan# 3161

Delta R.T. 0.006 min

Lab File: BP025009.D

Acq: 19 Jun 2025 20:30

Instrument :

BNA_P

ClientSampleId :

TR-06-06182025

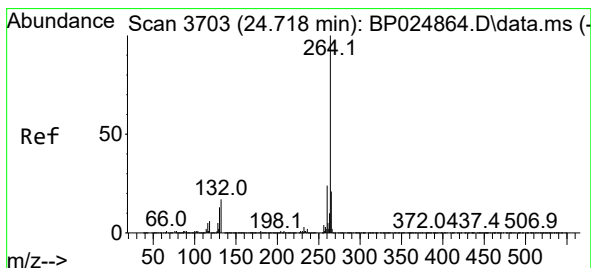
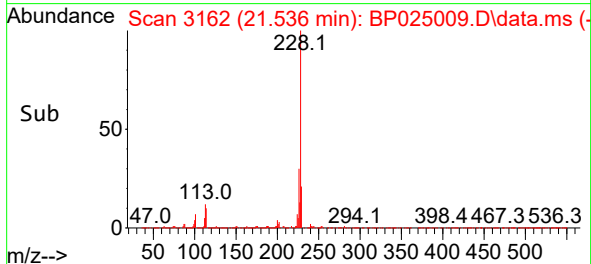
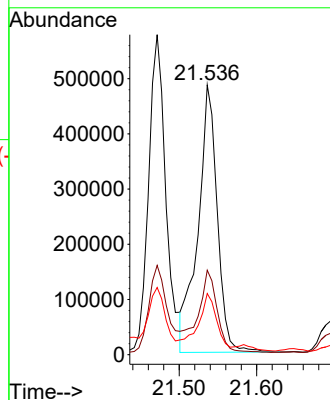
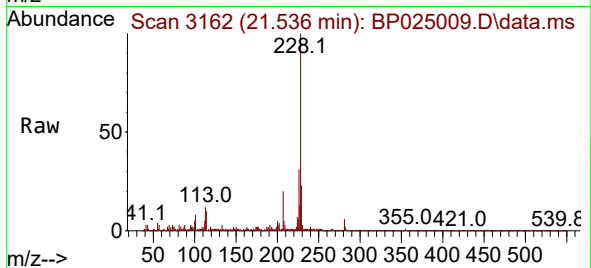
Tgt Ion:228 Resp: 838368

Ion Ratio Lower Upper

228 100

226 31.3 23.8 35.6

229 22.6 15.6 23.4



#86

Perylene-d12

Concen: 20.000 ng

RT: 24.771 min Scan# 3712

Delta R.T. 0.053 min

Lab File: BP025009.D

Acq: 19 Jun 2025 20:30

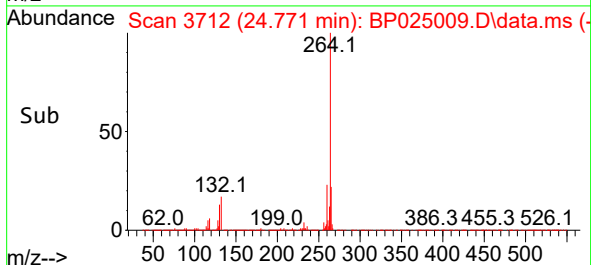
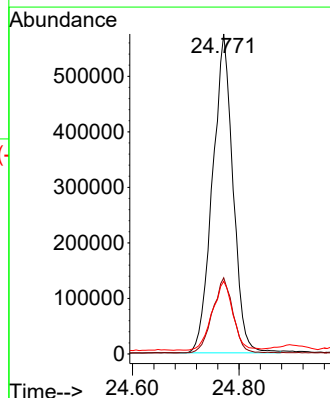
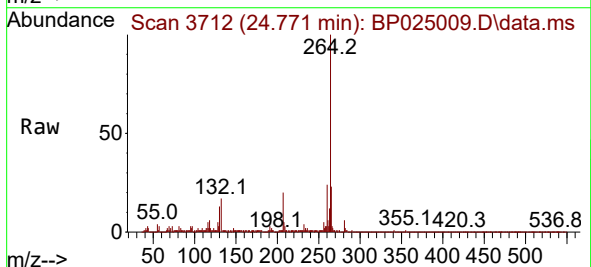
Tgt Ion:264 Resp: 1528615

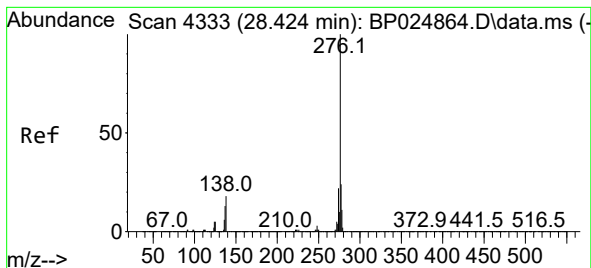
Ion Ratio Lower Upper

264 100

260 23.8 19.0 28.4

265 22.7 17.4 26.0





#87

Indeno(1,2,3-cd)pyrene

Concen: 5.052 ng

RT: 28.495 min Scan# 41

Delta R.T. 0.070 min

Lab File: BP025009.D

Acq: 19 Jun 2025 20:30

Instrument :

BNA_P

ClientSampleId :

TR-06-06182025

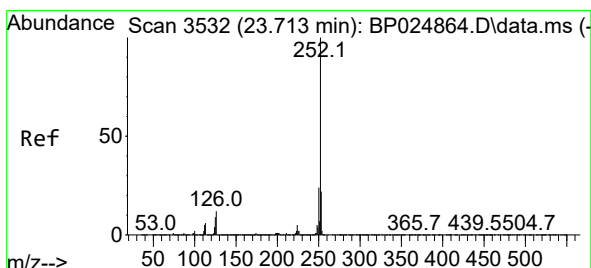
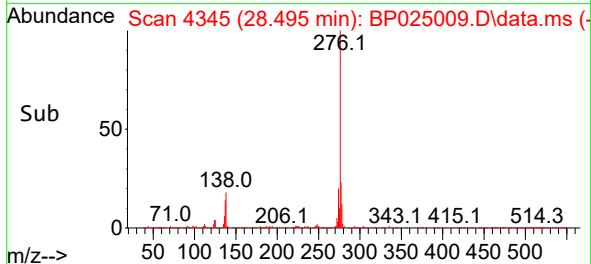
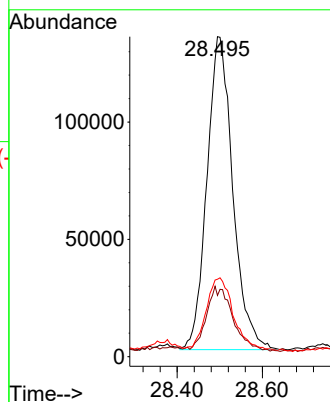
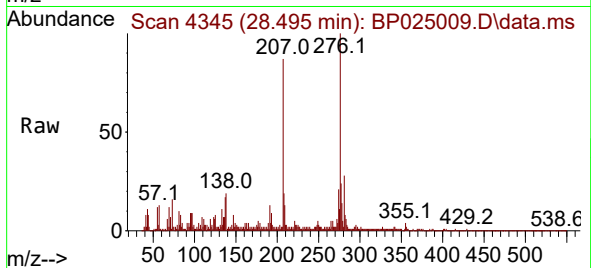
Tgt Ion:276 Resp: 563465

Ion Ratio Lower Upper

276 100

138 21.3 18.6 27.8

277 24.2 20.2 30.4



#88

Benzo(b)fluoranthene

Concen: 12.063 ng

RT: 23.742 min Scan# 3537

Delta R.T. 0.029 min

Lab File: BP025009.D

Acq: 19 Jun 2025 20:30

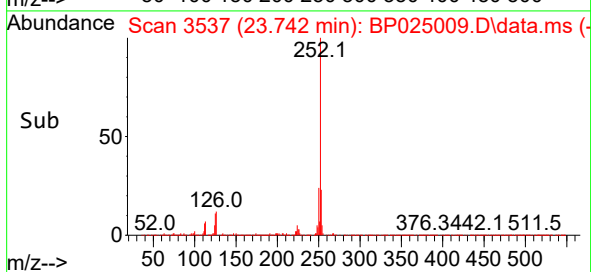
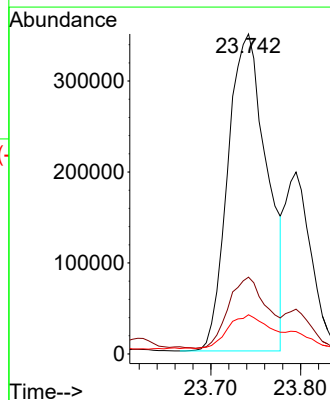
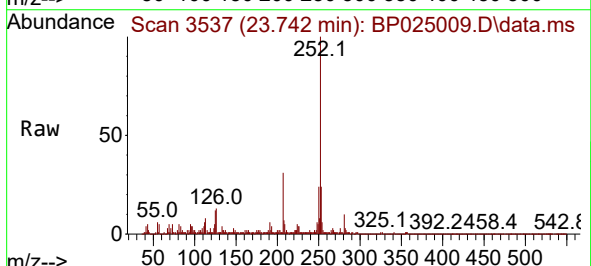
Tgt Ion:252 Resp: 1055313

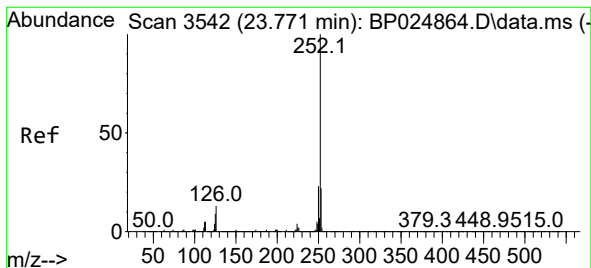
Ion Ratio Lower Upper

252 100

253 24.0 17.6 26.4

125 12.3 7.1 10.7#





#89

Benzo(k)fluoranthene

Concen: 4.446 ng m

RT: 23.795 min Scan# 3

Delta R.T. 0.023 min

Lab File: BP025009.D

Acq: 19 Jun 2025 20:30

Instrument :

BNA_P

ClientSampleId :

TR-06-06182025

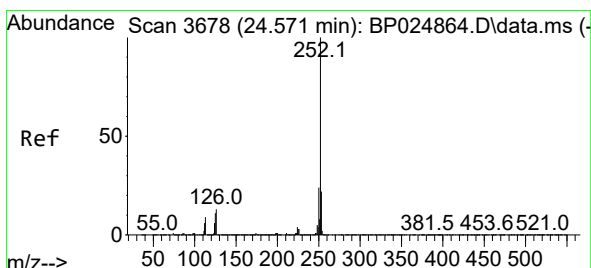
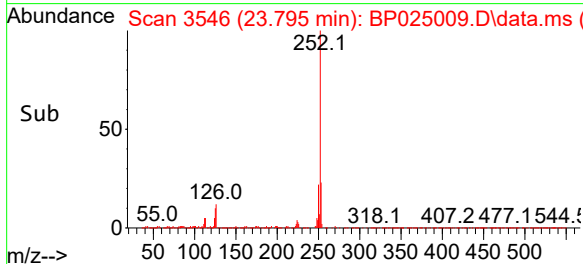
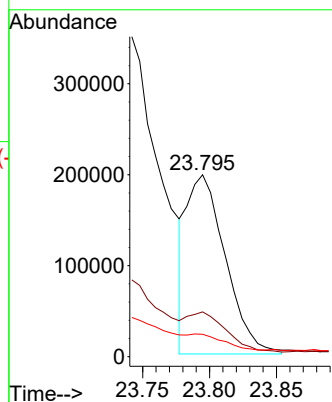
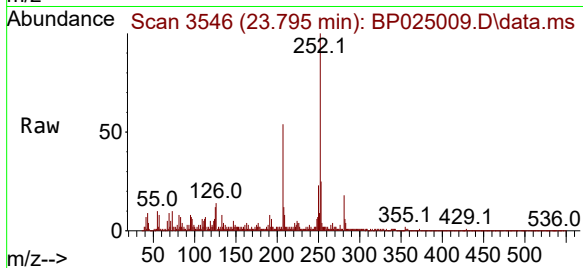
Tgt Ion:252 Resp: 395945

Ion Ratio Lower Upper

252 100

253 24.6 17.7 26.5

125 12.3 7.4 11.0#



#90

Benzo(a)pyrene

Concen: 9.992 ng

RT: 24.612 min Scan# 3685

Delta R.T. 0.041 min

Lab File: BP025009.D

Acq: 19 Jun 2025 20:30

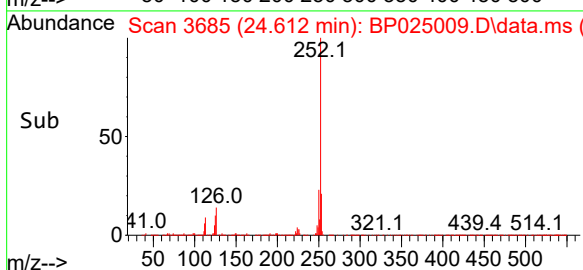
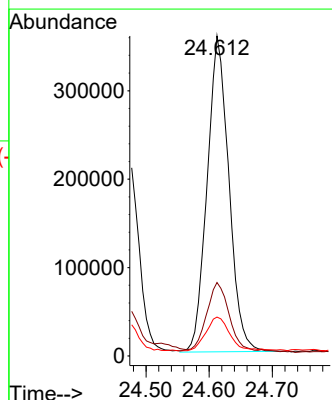
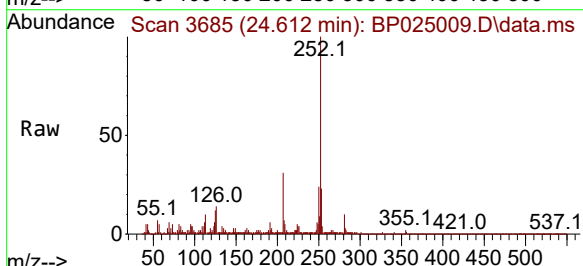
Tgt Ion:252 Resp: 853685

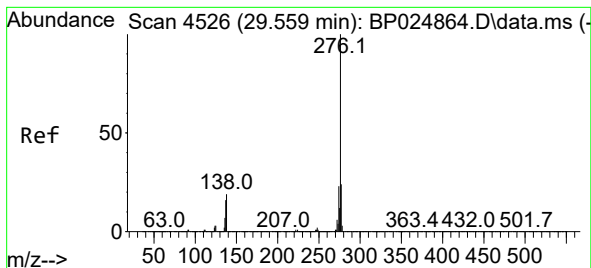
Ion Ratio Lower Upper

252 100

253 22.9 17.5 26.3

125 12.2 8.8 13.2





#92

Benzo(g,h,i)perylene

Concen: 6.493 ng

RT: 29.665 min Scan# 4

Delta R.T. 0.106 min

Lab File: BP025009.D

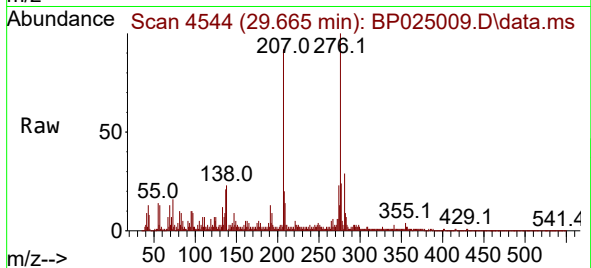
Acq: 19 Jun 2025 20:30

Instrument :

BNA_P

ClientSampleId :

TR-06-06182025



Tgt Ion:276 Resp: 584852

Ion Ratio Lower Upper

276 100

277 24.2 19.1 28.7

138 23.3 15.4 23.2#

