

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF062425\
 Data File : BF142821.D
 Acq On : 24 Jun 2025 15:59
 Operator : RC/JU
 Sample : Q2386-01
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SU-1-062025

Quant Time: Jun 24 16:20:42 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF061925.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jun 24 05:28:21 2025
 Response via : Initial Calibration

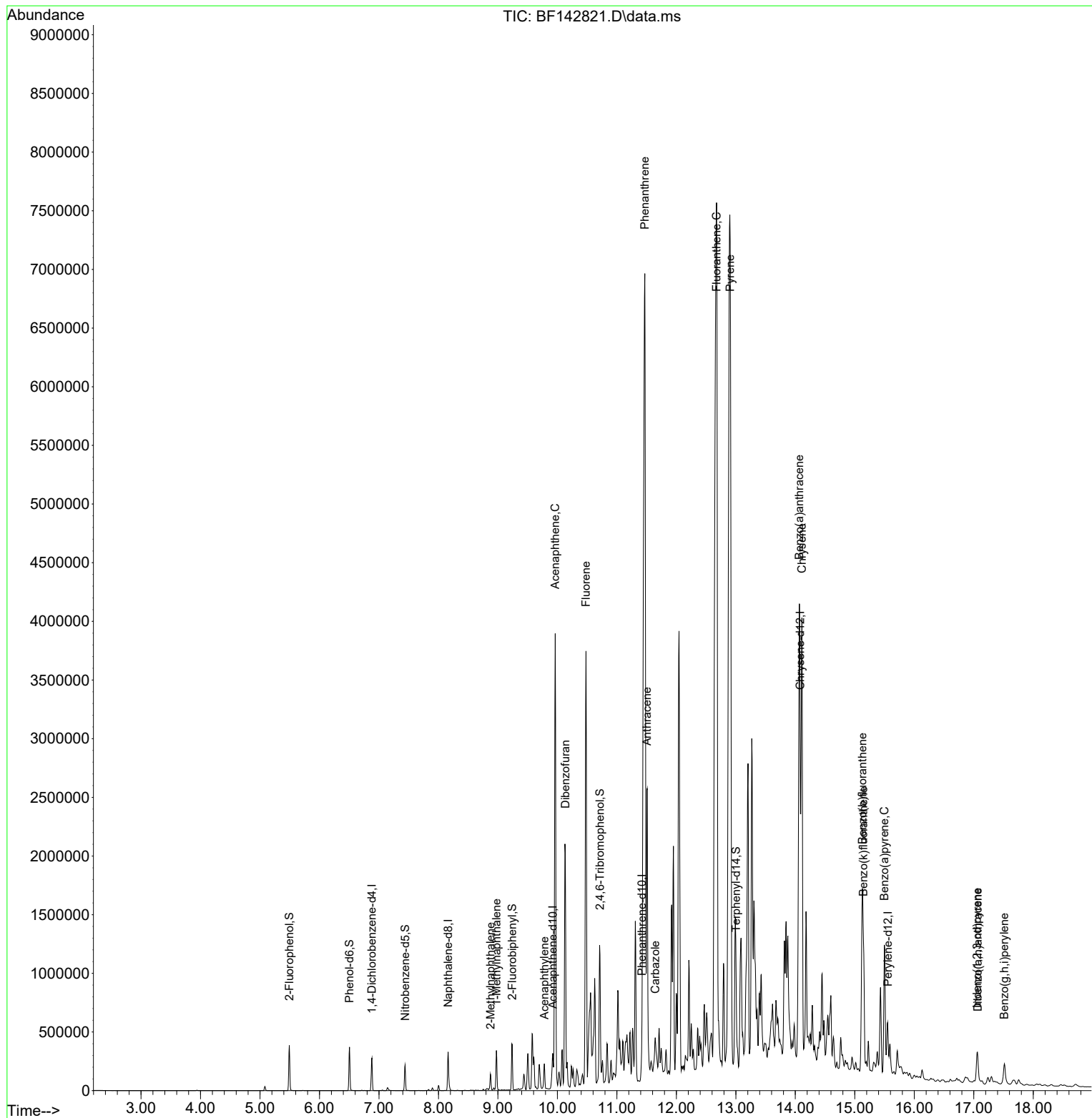
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.881	152	61352	20.000	ng	0.00
21) Naphthalene-d8	8.163	136	204710	20.000	ng	0.00
39) Acenaphthene-d10	9.922	164	88847	20.000	ng	0.00
64) Phenanthrene-d10	11.422	188	155434	20.000	ng	0.01
76) Chrysene-d12	14.080	240	159962	20.000	ng	0.02
86) Perylene-d12	15.557	264	121740	20.000	ng	# 0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.492	112	145710	39.542	ng	0.00
7) Phenol-d6	6.504	99	164134	37.753	ng	0.00
23) Nitrobenzene-d5	7.439	82	89623	24.014	ng	0.00
42) 2,4,6-Tribromophenol	10.716	330	35564	38.898	ng	0.00
45) 2-Fluorobiphenyl	9.239	172	179244	26.503	ng	0.00
79) Terphenyl-d14	13.004	244	246041	21.252	ng	0.00
Target Compounds						
						Qvalue
37) 2-Methylnaphthalene	8.875	142	52116	8.389	ng	100
38) 1-Methylnaphthalene	8.975	142	121852	18.948	ng	98
49) Acenaphthylene	9.780	152	88817	10.244	ng	# 96
52) Acenaphthene	9.963	154	1342818	253.842	ng	99
55) Dibenzofuran	10.133	168	1172691	154.593	ng	99
58) Fluorene	10.480	166	1663329	280.764	ng	99
71) Phenanthrene	11.469	178	6749921	801.667	ng	96
72) Anthracene	11.504	178	1277833	147.977	ng	98
73) Carbazole	11.645	167	119656	16.057	ng	97
75) Fluoranthene	12.674	202	9275969	1160.821	ng	96
78) Pyrene	12.904	202	7142706m	476.375	ng	
81) Benzo(a)anthracene	14.068	228	2774203	257.081	ng	96
83) Chrysene	14.110	228	2166574	225.001	ng	96
87) Indeno(1,2,3-cd)pyrene	17.056	276	188227	20.299	ng	97
88) Benzo(b)fluoranthene	15.127	252	1301000m	184.685	ng	
89) Benzo(k)fluoranthene	15.145	252	358412m	54.382	ng	
90) Benzo(a)pyrene	15.498	252	620096	91.118	ng	99
91) Dibenzo(a,h)anthracene	17.068	278	54166	7.189	ng	97
92) Benzo(g,h,i)perylene	17.515	276	154040	20.503	ng	99

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

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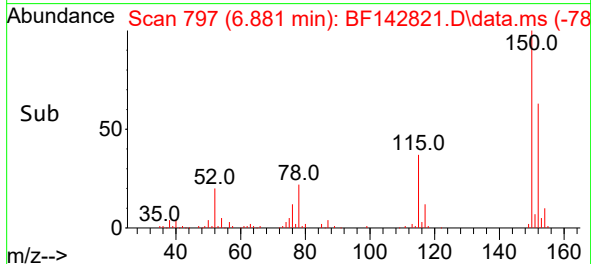
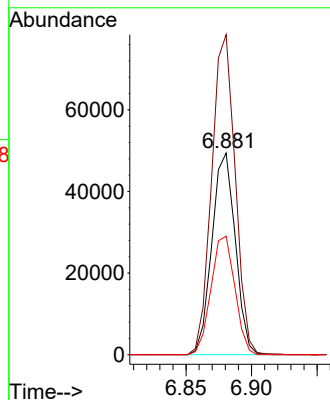
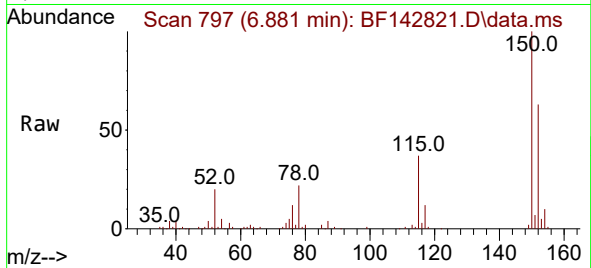




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.881 min Scan# 797
Delta R.T. -0.000 min
Lab File: BF142821.D
Acq: 24 Jun 2025 15:59

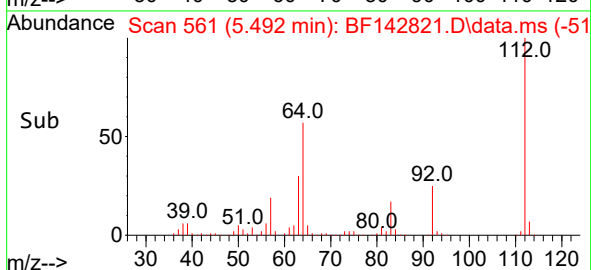
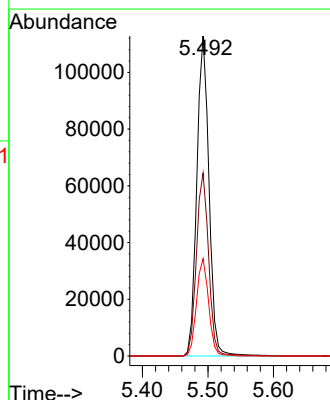
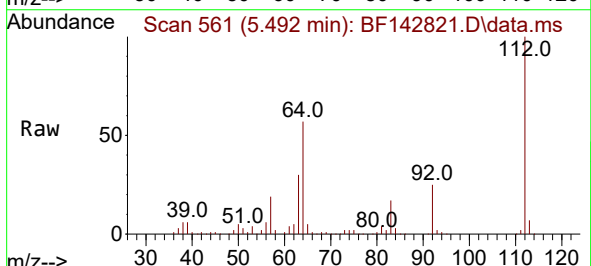
Instrument :
BNA_F
ClientSampleId :
SU-1-062025

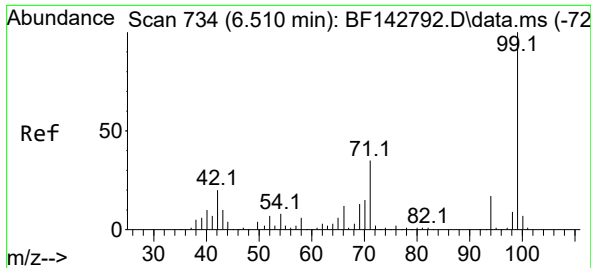
Tgt Ion:152 Resp: 61352
Ion Ratio Lower Upper
152 100
150 158.8 127.2 190.8
115 58.8 46.6 69.8



#5
2-Fluorophenol
Concen: 39.542 ng
RT: 5.492 min Scan# 561
Delta R.T. 0.000 min
Lab File: BF142821.D
Acq: 24 Jun 2025 15:59

Tgt Ion:112 Resp: 145710
Ion Ratio Lower Upper
112 100
64 57.2 48.2 72.2
63 30.4 25.7 38.5

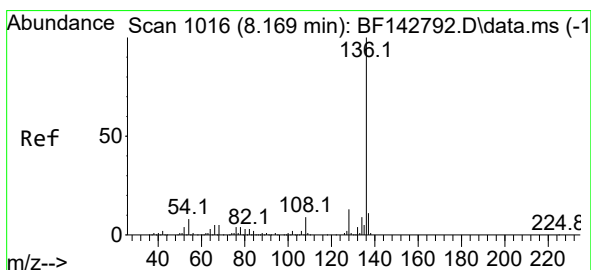
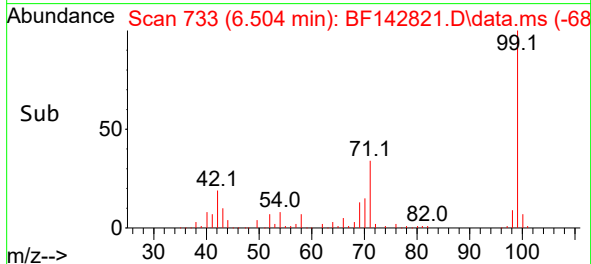
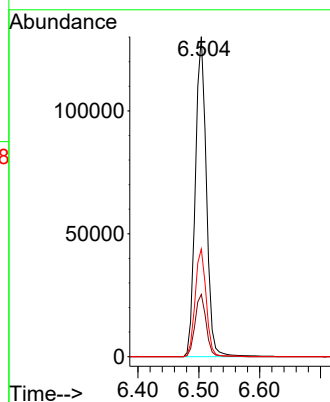
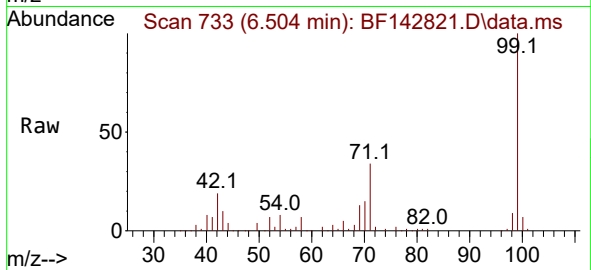




#7
Phenol-d6
Concen: 37.753 ng
RT: 6.504 min Scan# 71
Delta R.T. -0.006 min
Lab File: BF142821.D
Acq: 24 Jun 2025 15:59

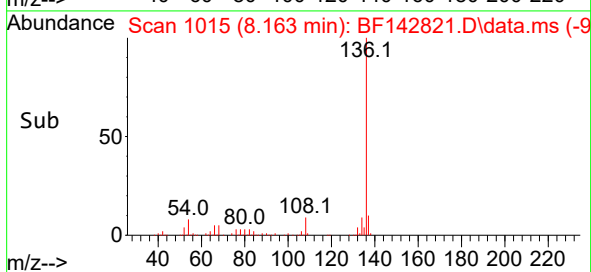
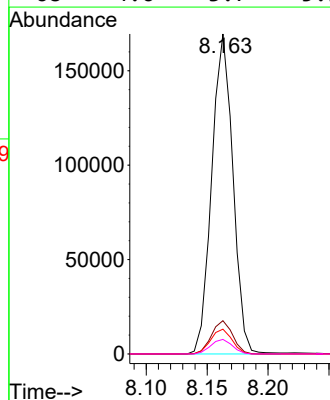
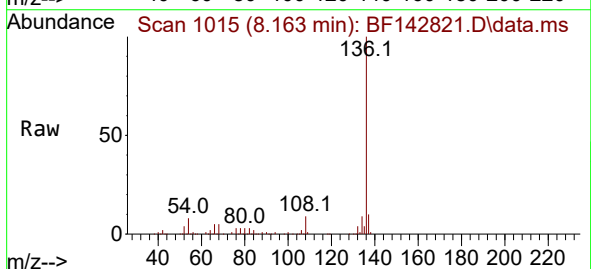
Instrument :
BNA_F
ClientSampleId :
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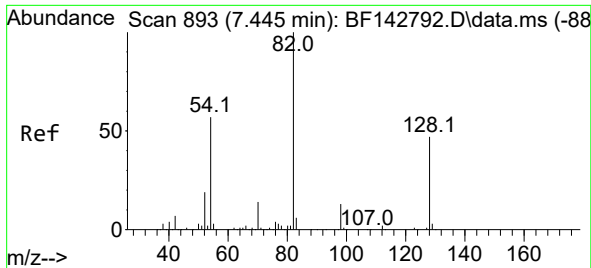
Tgt Ion: 99 Resp: 164134
Ion Ratio Lower Upper
99 100
42 19.5 15.9 23.9
71 33.7 27.8 41.8



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.163 min Scan# 1015
Delta R.T. -0.006 min
Lab File: BF142821.D
Acq: 24 Jun 2025 15:59

Tgt Ion: 136 Resp: 204710
Ion Ratio Lower Upper
136 100
137 10.4 8.4 12.6
54 7.8 6.3 9.5
68 4.6 3.7 5.5





#23

Nitrobenzene-d5

Concen: 24.014 ng

RT: 7.439 min Scan# 89

Delta R.T. -0.006 min

Lab File: BF142821.D

Acq: 24 Jun 2025 15:59

Instrument :

BNA_F

ClientSampleId :

SU-1-062025

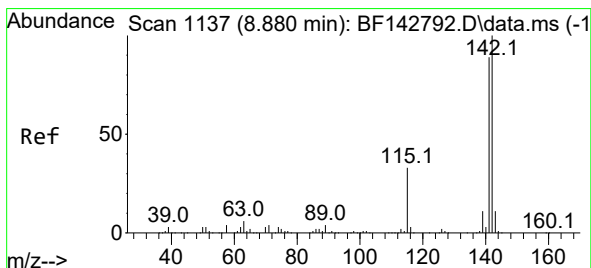
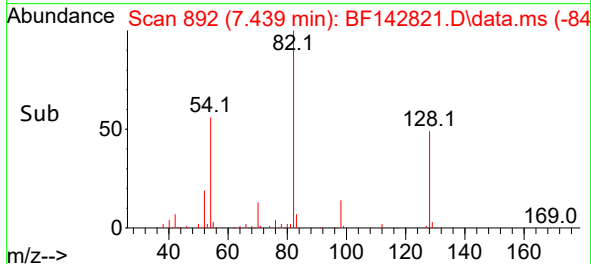
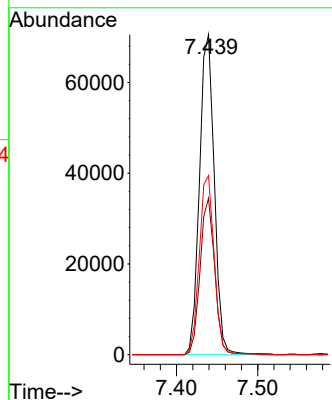
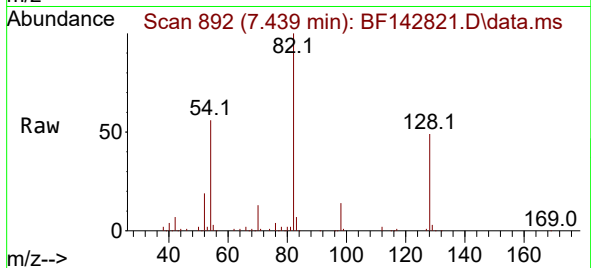
Tgt Ion: 82 Resp: 89623

Ion Ratio Lower Upper

82 100

128 48.9 37.7 56.5

54 56.0 45.7 68.5



#37

2-Methylnaphthalene

Concen: 8.389 ng

RT: 8.875 min Scan# 1136

Delta R.T. -0.006 min

Lab File: BF142821.D

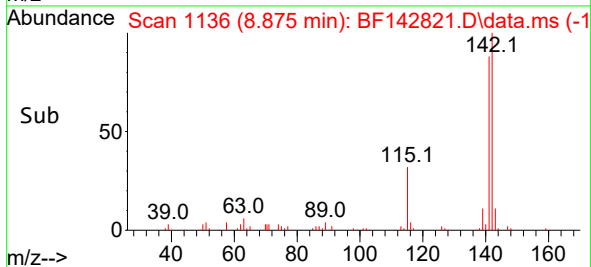
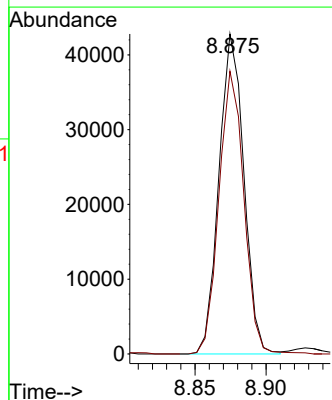
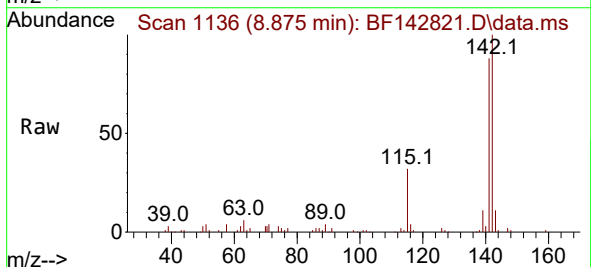
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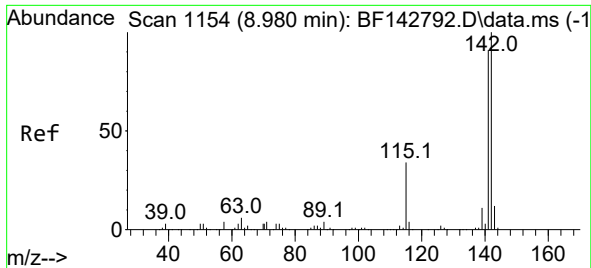
Tgt Ion:142 Resp: 52116

Ion Ratio Lower Upper

142 100

141 88.4 70.9 106.3

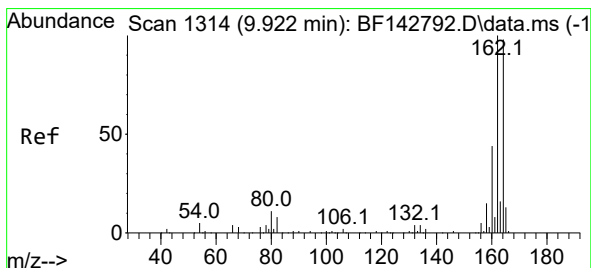
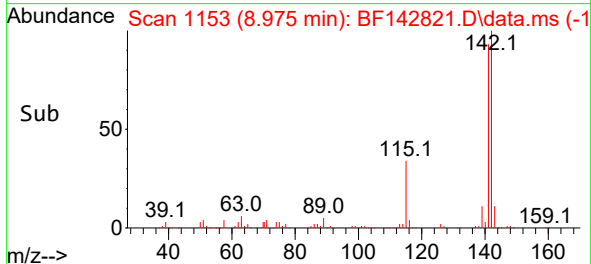
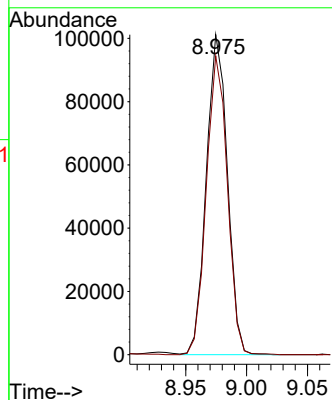
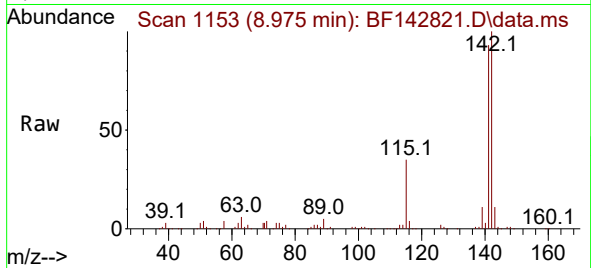




#38
1-Methylnaphthalene
Concen: 18.948 ng
RT: 8.975 min Scan# 1153
Delta R.T. -0.006 min
Lab File: BF142821.D
Acq: 24 Jun 2025 15:59

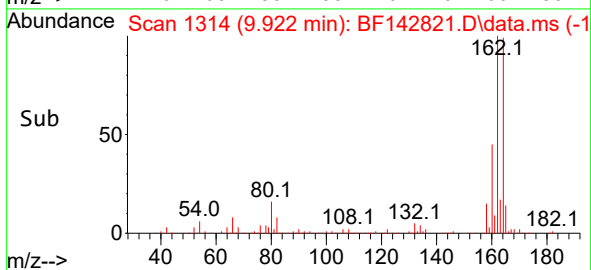
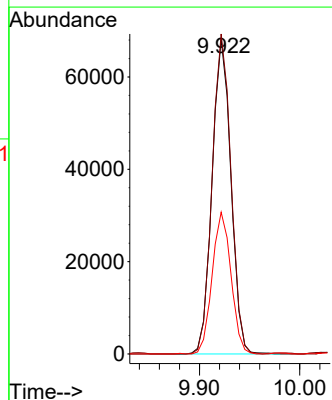
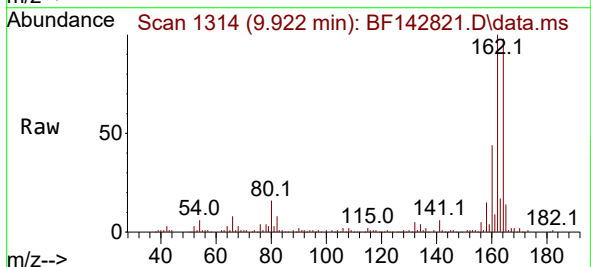
Instrument :
BNA_F
ClientSampleId :
SU-1-062025

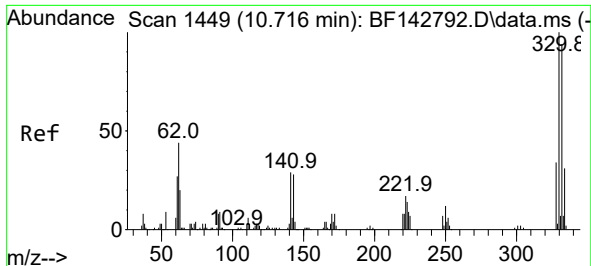
Tgt Ion:142 Resp: 121852
Ion Ratio Lower Upper
142 100
141 93.3 73.0 109.4



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.922 min Scan# 1314
Delta R.T. 0.000 min
Lab File: BF142821.D
Acq: 24 Jun 2025 15:59

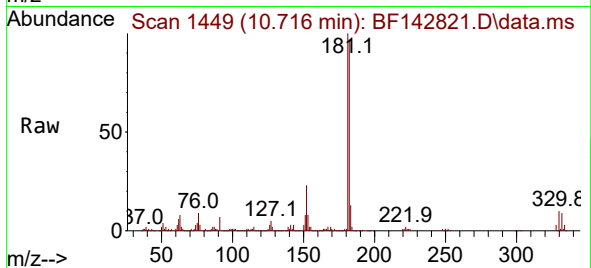
Tgt Ion:164 Resp: 88847
Ion Ratio Lower Upper
164 100
162 101.7 81.8 122.8
160 45.0 36.0 54.0



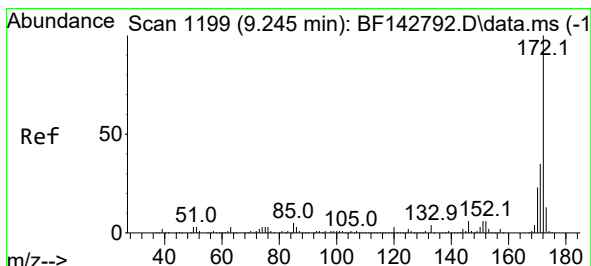
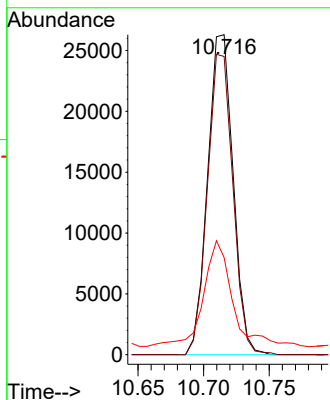
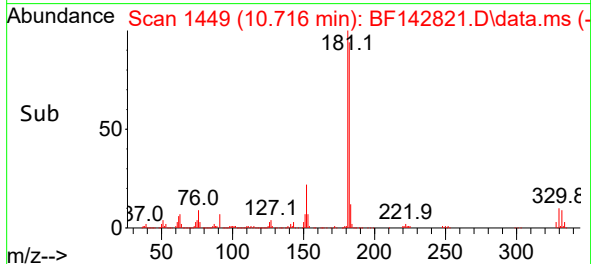


#42
2,4,6-Tribromophenol
Concen: 38.898 ng
RT: 10.716 min Scan# 1449
Delta R.T. -0.000 min
Lab File: BF142821.D
Acq: 24 Jun 2025 15:59

Instrument :
BNA_F
ClientSampleId :
SU-1-062025

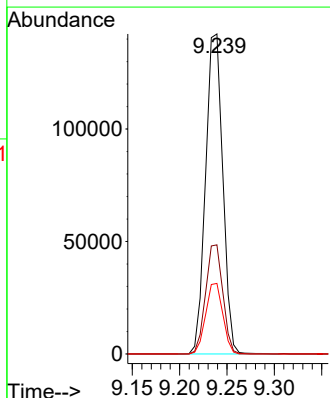
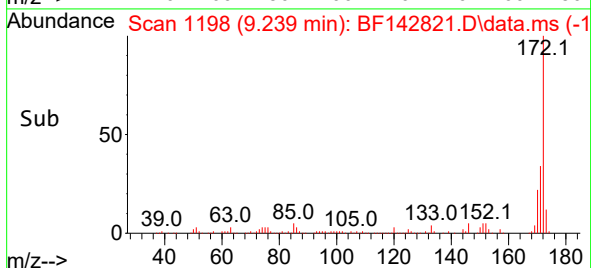
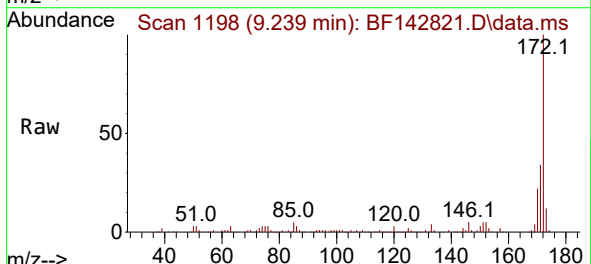


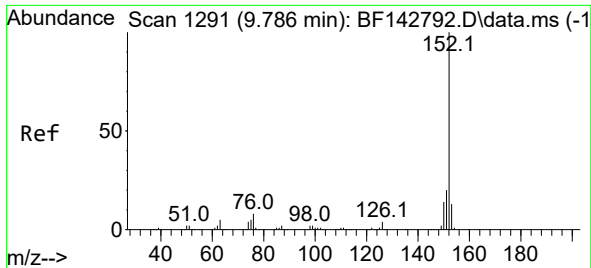
Tgt Ion:330 Resp: 35564
Ion Ratio Lower Upper
330 100
332 93.8 75.0 112.6
141 38.0 25.3 37.9#



#45
2-Fluorobiphenyl
Concen: 26.503 ng
RT: 9.239 min Scan# 1198
Delta R.T. -0.006 min
Lab File: BF142821.D
Acq: 24 Jun 2025 15:59

Tgt Ion:172 Resp: 179244
Ion Ratio Lower Upper
172 100
171 34.1 28.2 42.4
170 22.1 18.5 27.7

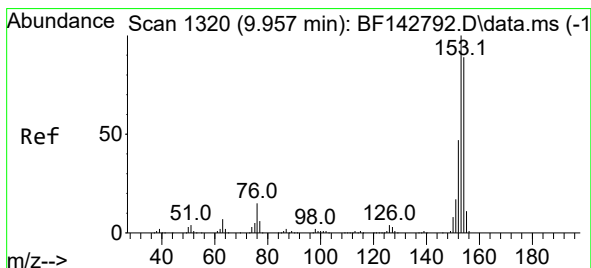
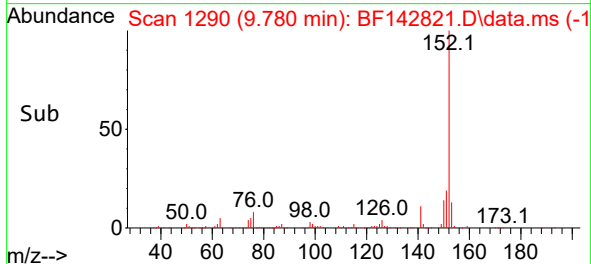
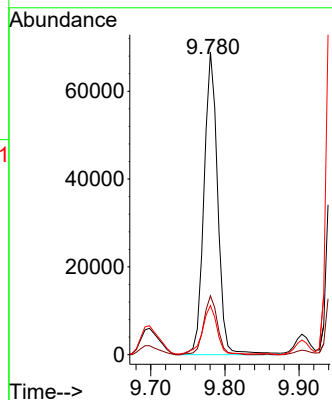
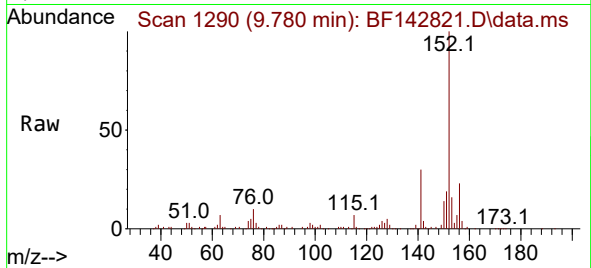




#49
Acenaphthylene
Concen: 10.244 ng
RT: 9.780 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF142821.D
Acq: 24 Jun 2025 15:59

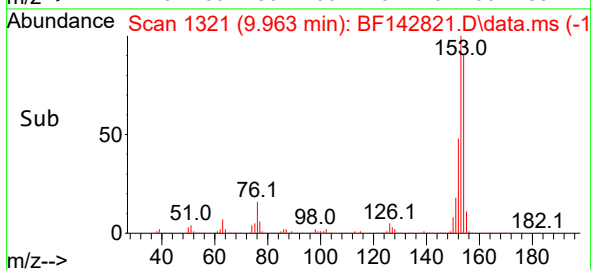
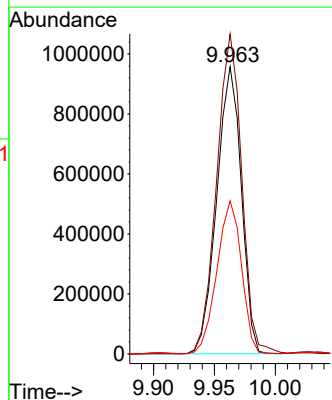
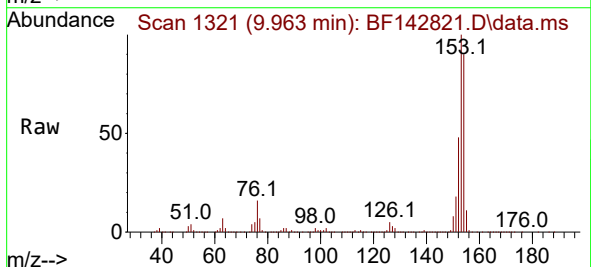
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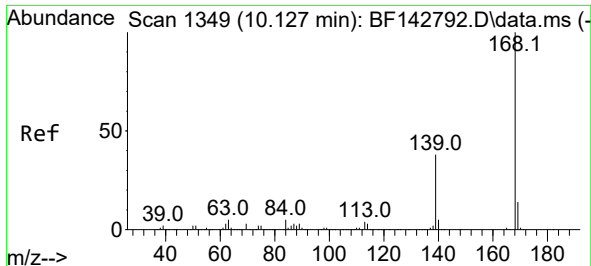
Tgt Ion:152 Resp: 88817
Ion Ratio Lower Upper
152 100
151 19.5 16.1 24.1
153 16.2 10.4 15.6#



#52
Acenaphthene
Concen: 253.842 ng
RT: 9.963 min Scan# 1321
Delta R.T. 0.006 min
Lab File: BF142821.D
Acq: 24 Jun 2025 15:59

Tgt Ion:154 Resp: 1342818
Ion Ratio Lower Upper
154 100
153 111.4 90.0 135.0
152 53.3 41.9 62.9

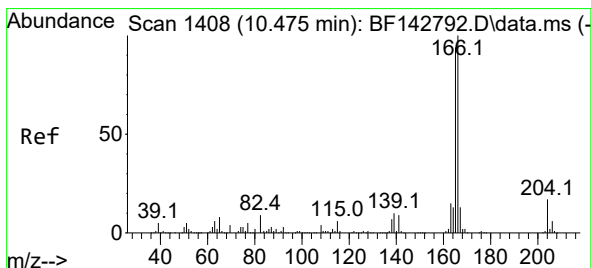
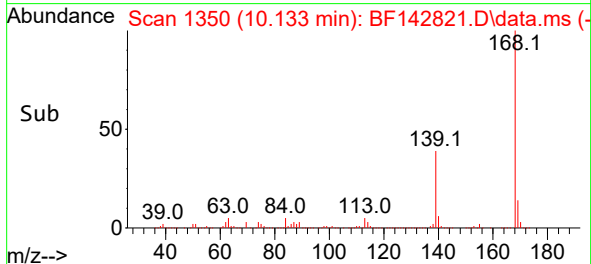
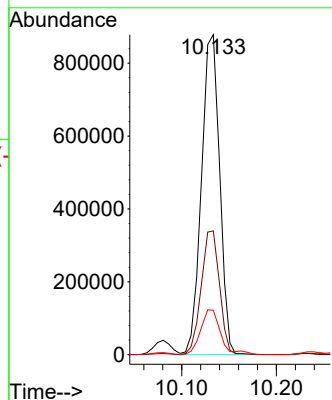
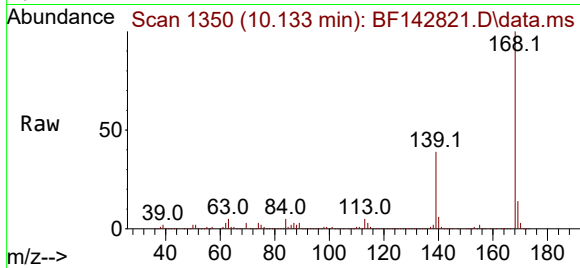




#55
Dibenzofuran
Concen: 154.593 ng
RT: 10.133 min Scan# 11
Delta R.T. 0.006 min
Lab File: BF142821.D
Acq: 24 Jun 2025 15:59

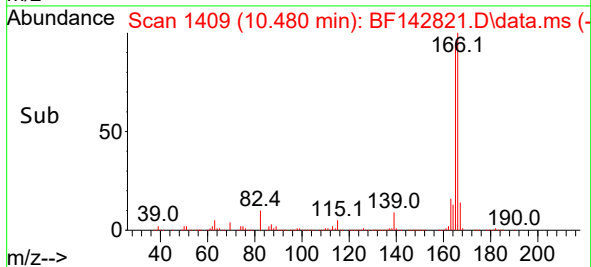
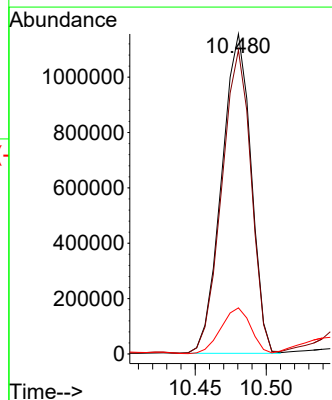
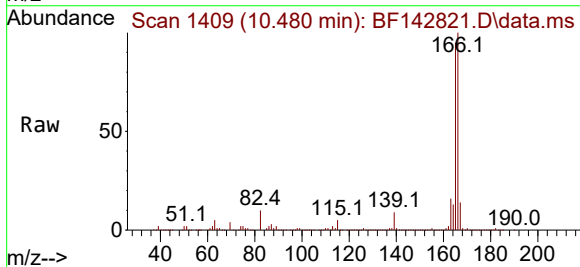
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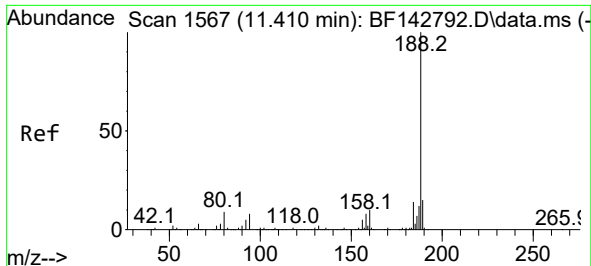
Tgt Ion:168 Resp: 1172691
Ion Ratio Lower Upper
168 100
139 38.7 30.2 45.4
169 13.9 10.8 16.2



#58
Fluorene
Concen: 280.764 ng
RT: 10.480 min Scan# 1409
Delta R.T. 0.006 min
Lab File: BF142821.D
Acq: 24 Jun 2025 15:59

Tgt Ion:166 Resp: 1663329
Ion Ratio Lower Upper
166 100
165 95.0 75.2 112.8
167 14.4 10.6 15.8

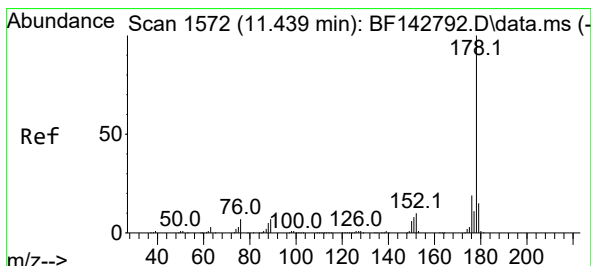
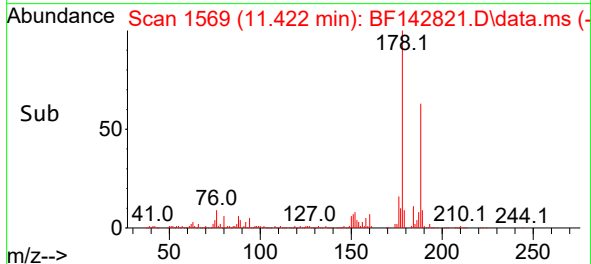
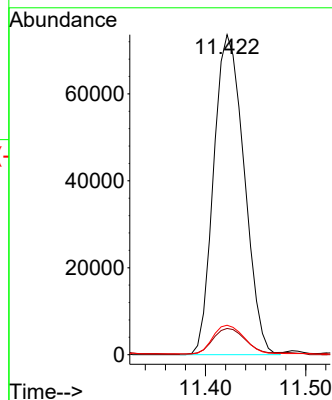
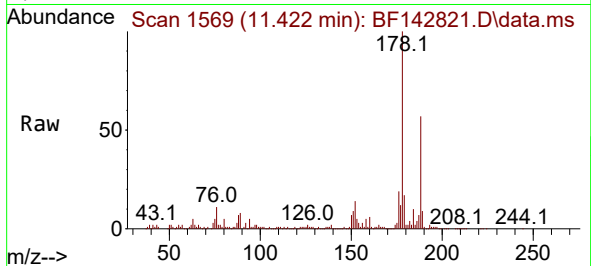




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.422 min Scan# 1569
Delta R.T. 0.012 min
Lab File: BF142821.D
Acq: 24 Jun 2025 15:59

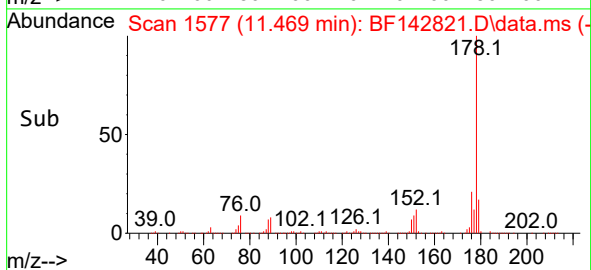
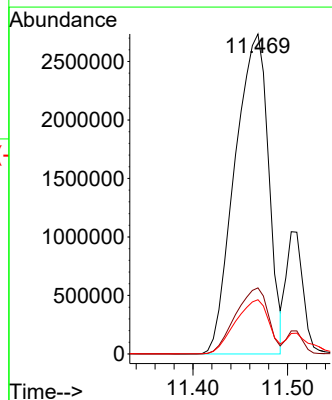
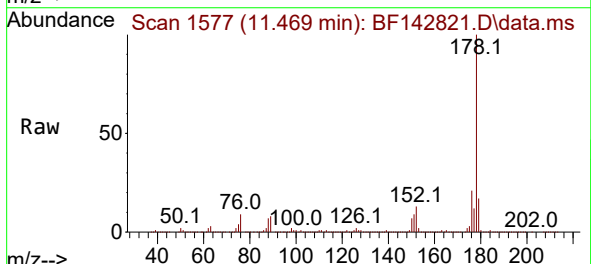
Instrument :
BNA_F
ClientSampleId :
SU-1-062025

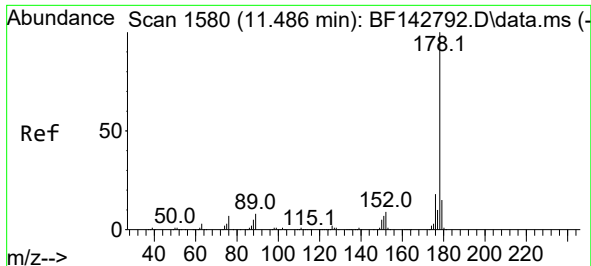
Tgt Ion:188 Resp: 155434
Ion Ratio Lower Upper
188 100
94 8.2 6.7 10.1
80 9.2 6.9 10.3



#71
Phenanthrene
Concen: 801.667 ng
RT: 11.469 min Scan# 1577
Delta R.T. 0.029 min
Lab File: BF142821.D
Acq: 24 Jun 2025 15:59

Tgt Ion:178 Resp: 6749921
Ion Ratio Lower Upper
178 100
176 20.7 15.1 22.7
179 16.9 12.0 18.0

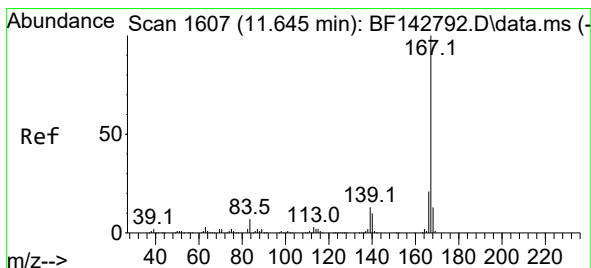
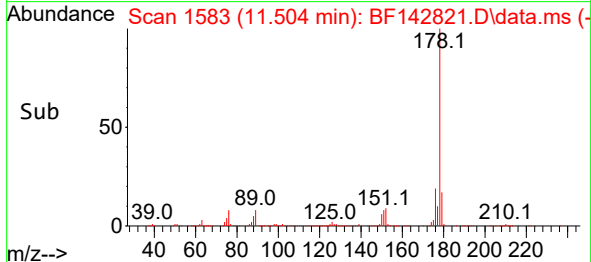
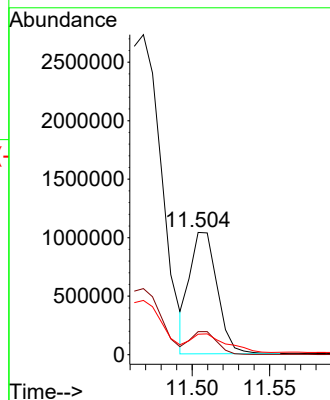
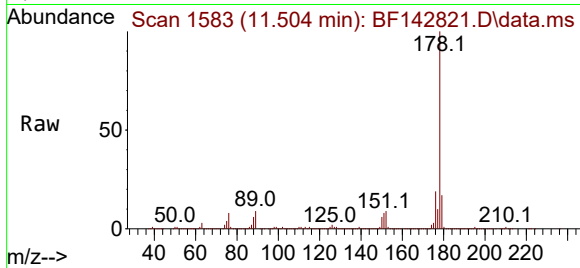




#72
 Anthracene
 Concen: 147.977 ng
 RT: 11.504 min Scan# 11
 Delta R.T. 0.018 min
 Lab File: BF142821.D
 Acq: 24 Jun 2025 15:59

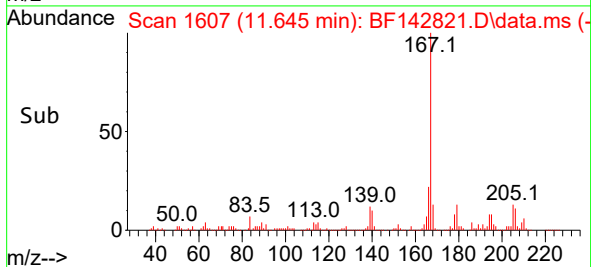
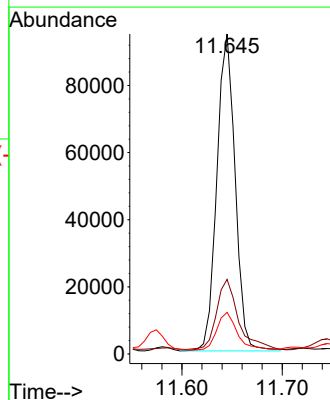
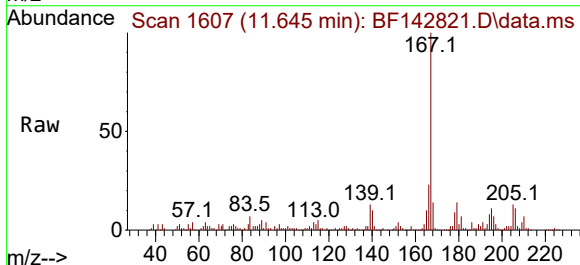
Instrument :
 BNA_F
 ClientSampleId :
 SU-1-062025

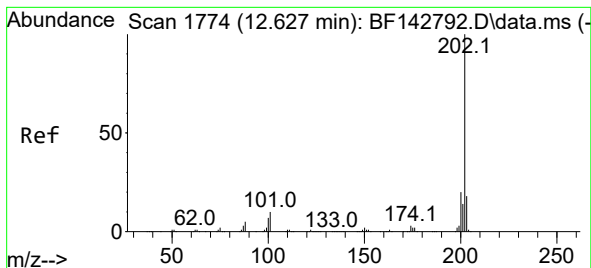
Tgt Ion:178 Resp: 1277833
 Ion Ratio Lower Upper
 178 100
 176 18.9 14.6 21.8
 179 16.7 12.4 18.6



#73
 Carbazole
 Concen: 16.057 ng
 RT: 11.645 min Scan# 1607
 Delta R.T. 0.000 min
 Lab File: BF142821.D
 Acq: 24 Jun 2025 15:59

Tgt Ion:167 Resp: 119656
 Ion Ratio Lower Upper
 167 100
 166 23.3 17.0 25.4
 139 13.0 10.2 15.2





#75

Fluoranthene

Concen: 1160.821 ng

RT: 12.674 min Scan# 11

Delta R.T. 0.047 min

Lab File: BF142821.D

Acq: 24 Jun 2025 15:59

Instrument :

BNA_F

ClientSampleId :

SU-1-062025

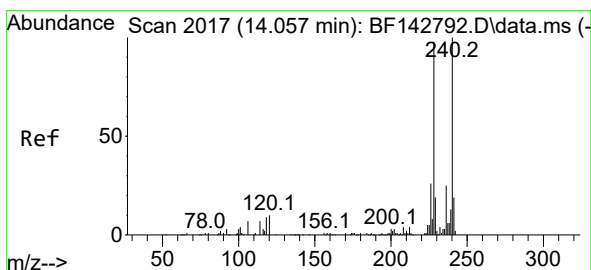
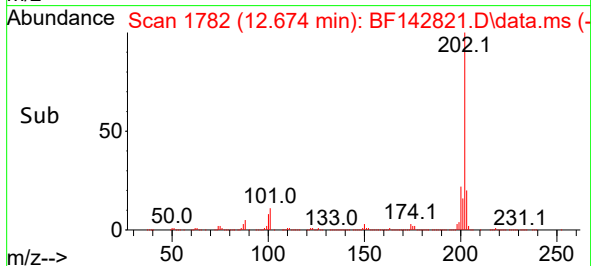
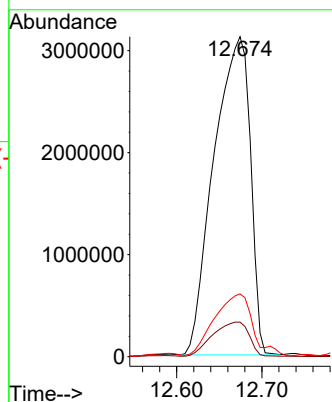
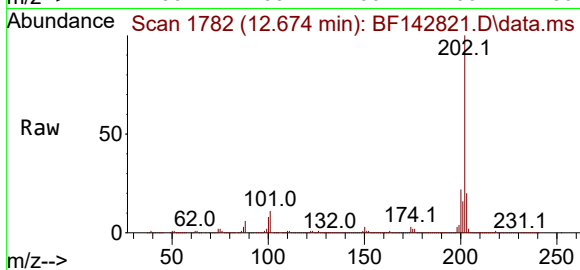
Tgt Ion:202 Resp: 9275969

Ion Ratio Lower Upper

202 100

101 10.8 0.0 29.7

203 19.7 0.0 37.5



#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.080 min Scan# 2021

Delta R.T. 0.024 min

Lab File: BF142821.D

Acq: 24 Jun 2025 15:59

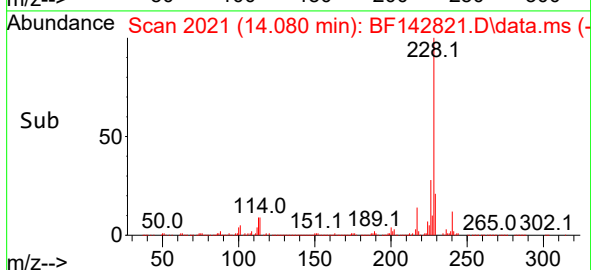
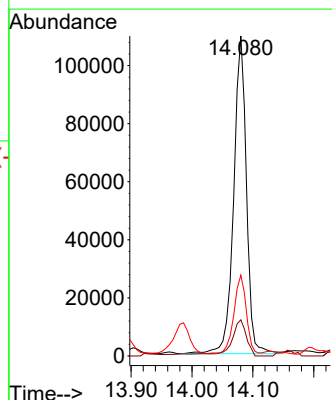
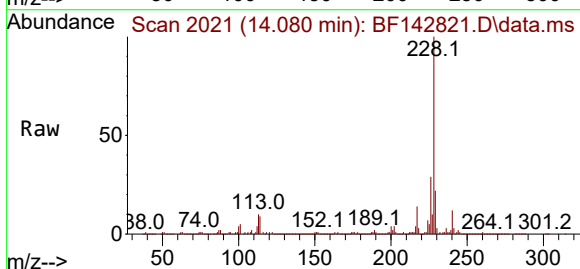
Tgt Ion:240 Resp: 159962

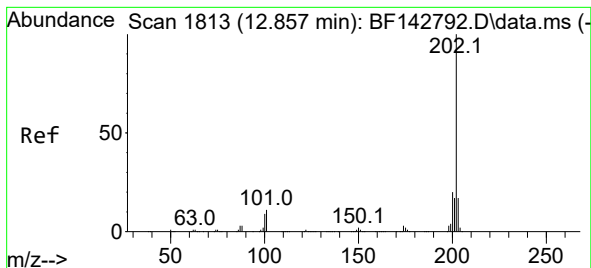
Ion Ratio Lower Upper

240 100

120 11.3 8.2 12.2

236 25.2 19.8 29.8





#78

Pyrene

Concen: 476.375 ng m

RT: 12.904 min Scan# 1821

Delta R.T. 0.047 min

Lab File: BF142821.D

Acq: 24 Jun 2025 15:59

Instrument :

BNA_F

ClientSampleId :

SU-1-062025

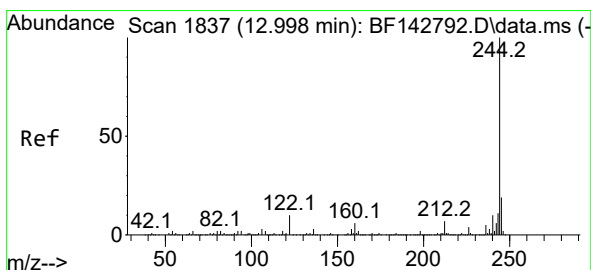
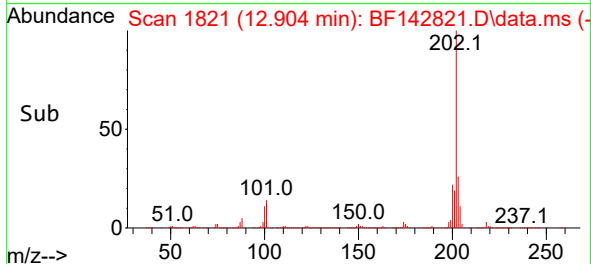
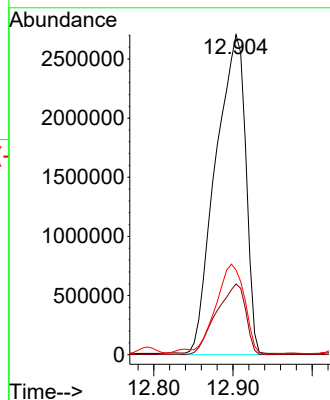
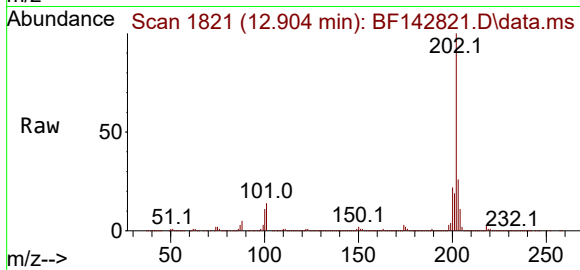
Tgt Ion:202 Resp: 7142706

Ion Ratio Lower Upper

202 100

200 22.1 15.7 23.5

203 26.4 13.8 20.6#



#79

Terphenyl-d14

Concen: 21.252 ng

RT: 13.004 min Scan# 1838

Delta R.T. 0.006 min

Lab File: BF142821.D

Acq: 24 Jun 2025 15:59

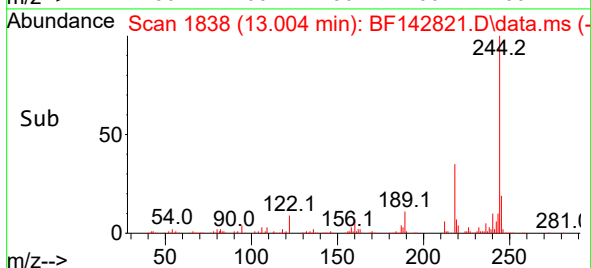
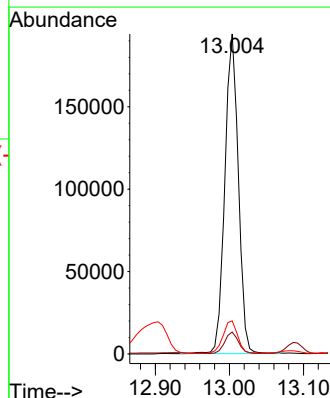
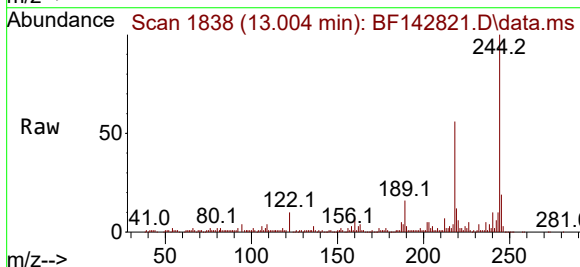
Tgt Ion:244 Resp: 246041

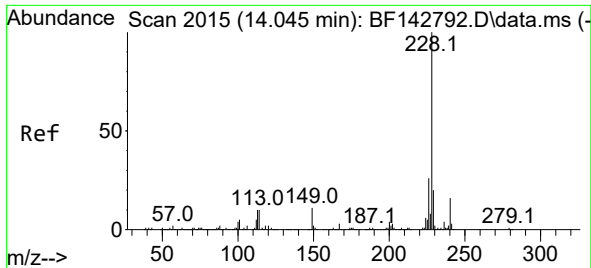
Ion Ratio Lower Upper

244 100

212 6.8 5.4 8.0

122 10.4 8.2 12.2

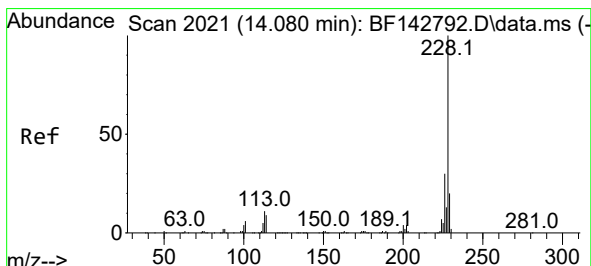
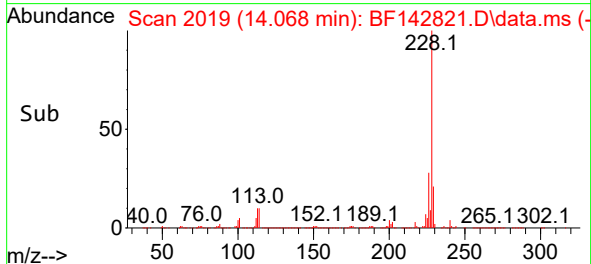
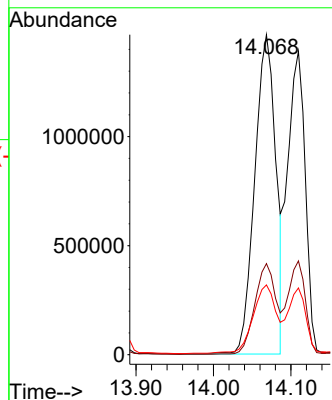
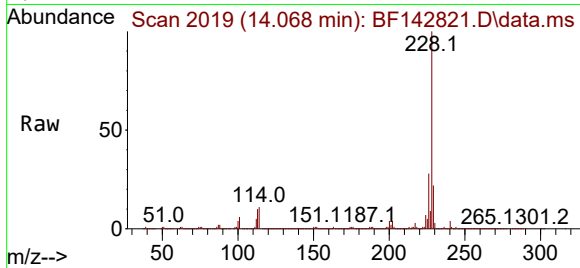




#81
Benzo(a)anthracene
Concen: 257.081 ng
RT: 14.068 min Scan# 2019
Delta R.T. 0.024 min
Lab File: BF142821.D
Acq: 24 Jun 2025 15:59

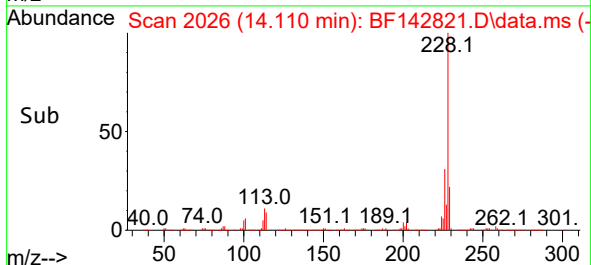
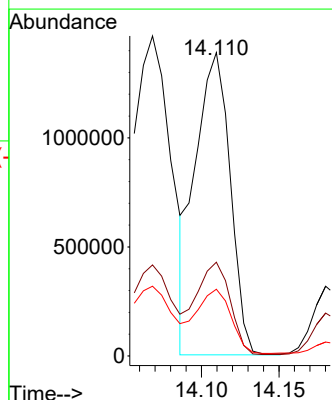
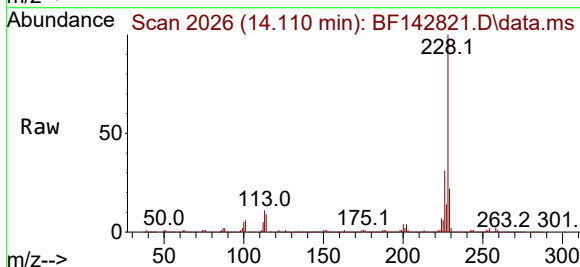
Instrument :
BNA_F
ClientSampleId :
SU-1-062025

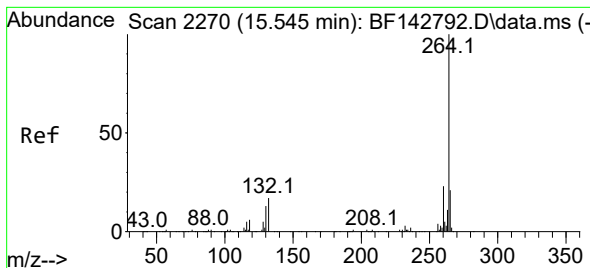
Tgt Ion:228 Resp: 2774203
Ion Ratio Lower Upper
228 100
226 28.5 21.2 31.8
229 21.8 15.6 23.4



#83
Chrysene
Concen: 225.001 ng
RT: 14.110 min Scan# 2026
Delta R.T. 0.029 min
Lab File: BF142821.D
Acq: 24 Jun 2025 15:59

Tgt Ion:228 Resp: 2166574
Ion Ratio Lower Upper
228 100
226 30.9 23.7 35.5
229 22.0 15.7 23.5





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.557 min Scan# 21

Delta R.T. 0.012 min

Lab File: BF142821.D

Acq: 24 Jun 2025 15:59

Instrument :

BNA_F

ClientSampleId :

SU-1-062025

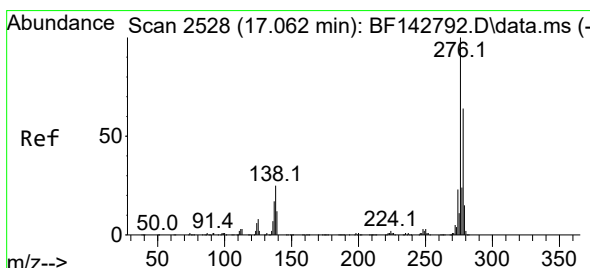
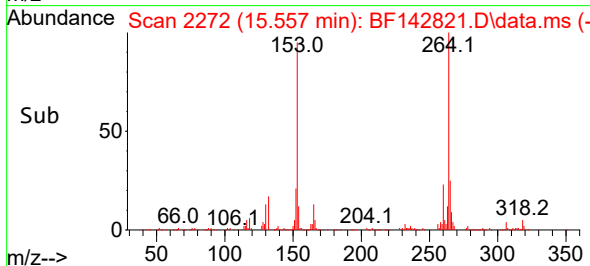
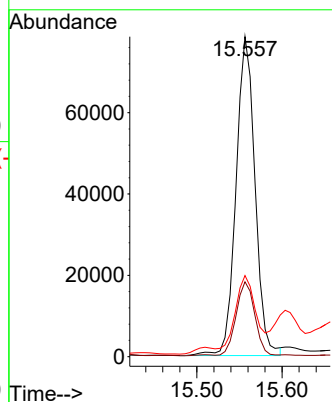
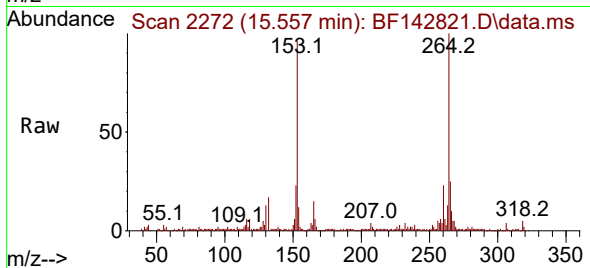
Tgt Ion:264 Resp: 121740

Ion Ratio Lower Upper

264 100

260 23.4 18.1 27.1

265 25.3 16.6 25.0#



#87

Indeno(1,2,3-cd)pyrene

Concen: 20.299 ng

RT: 17.056 min Scan# 2527

Delta R.T. -0.006 min

Lab File: BF142821.D

Acq: 24 Jun 2025 15:59

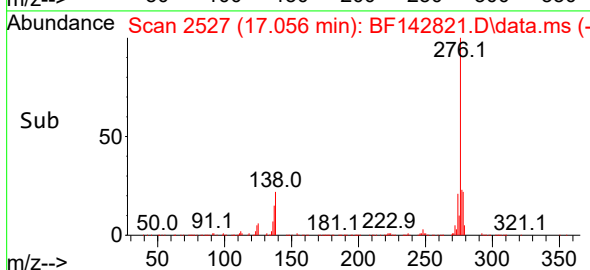
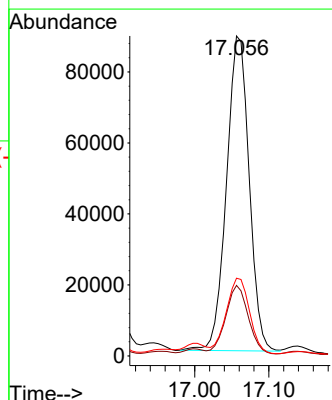
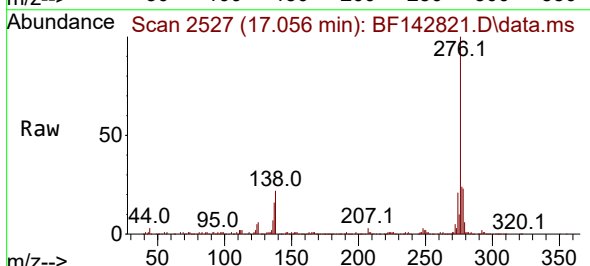
Tgt Ion:276 Resp: 188227

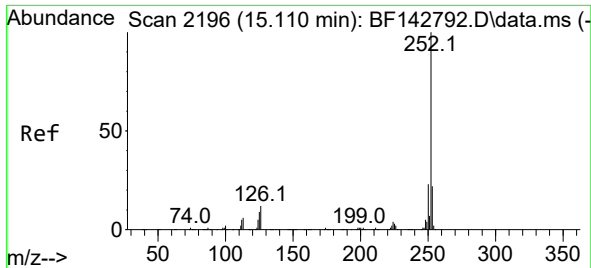
Ion Ratio Lower Upper

276 100

138 22.0 20.2 30.4

277 24.7 19.8 29.6

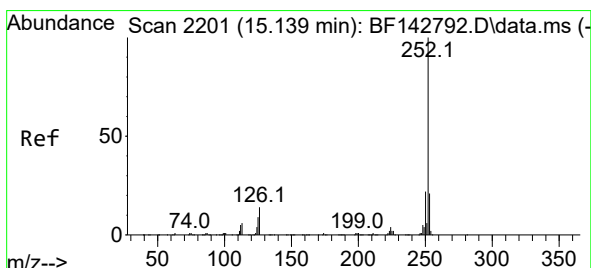
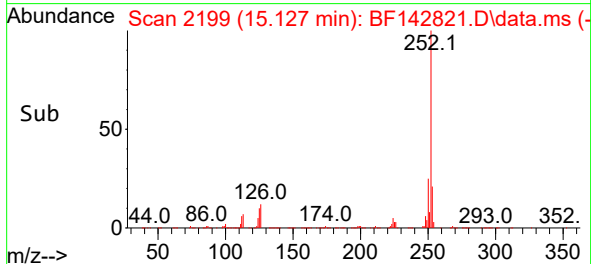
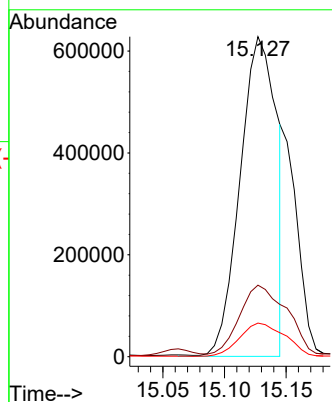
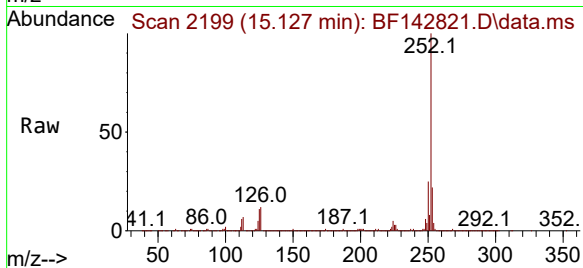




#88
Benzo(b)fluoranthene
Concen: 184.685 ng m
RT: 15.127 min Scan# 2196
Delta R.T. 0.018 min
Lab File: BF142821.D
Acq: 24 Jun 2025 15:59

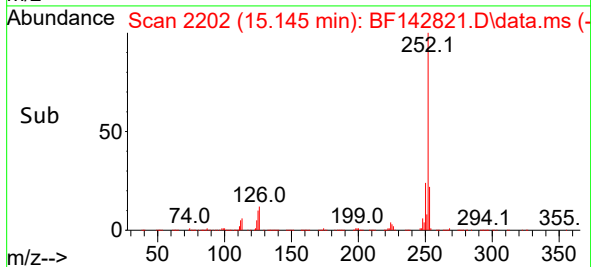
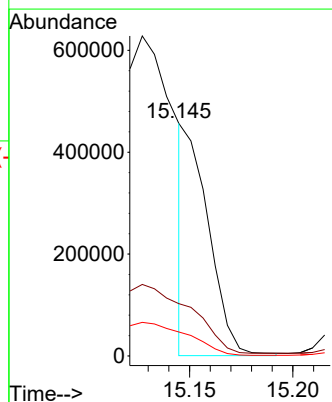
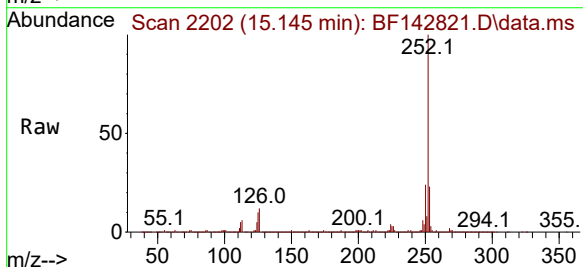
Instrument :
BNA_F
ClientSampleId :
SU-1-062025

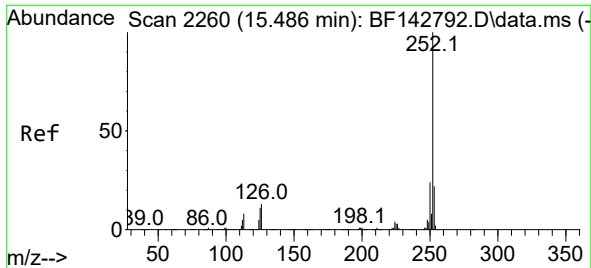
Tgt Ion:252 Resp: 1301000
Ion Ratio Lower Upper
252 100
253 22.3 17.5 26.3
125 10.5 7.4 11.0



#89
Benzo(k)fluoranthene
Concen: 54.382 ng m
RT: 15.145 min Scan# 2202
Delta R.T. 0.006 min
Lab File: BF142821.D
Acq: 24 Jun 2025 15:59

Tgt Ion:252 Resp: 358412
Ion Ratio Lower Upper
252 100
253 22.5 17.2 25.8
125 10.3 7.4 11.2

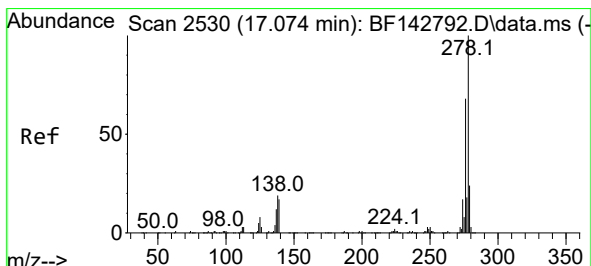
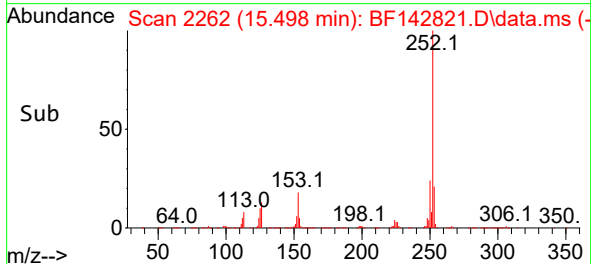
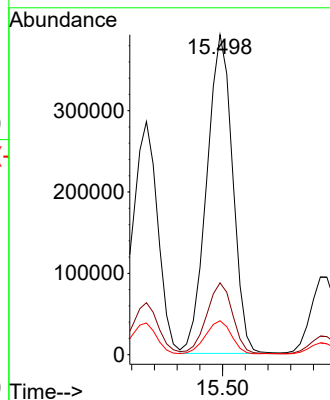
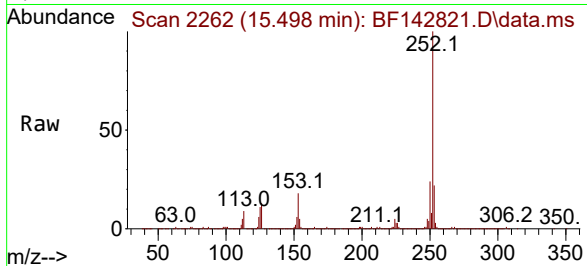




#90
Benzo(a)pyrene
Concen: 91.118 ng
RT: 15.498 min Scan# 21
Delta R.T. 0.012 min
Lab File: BF142821.D
Acq: 24 Jun 2025 15:59

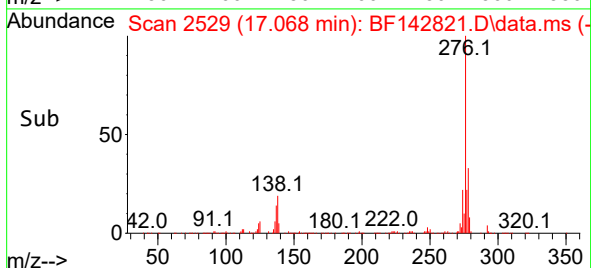
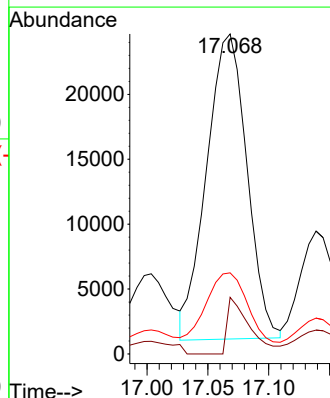
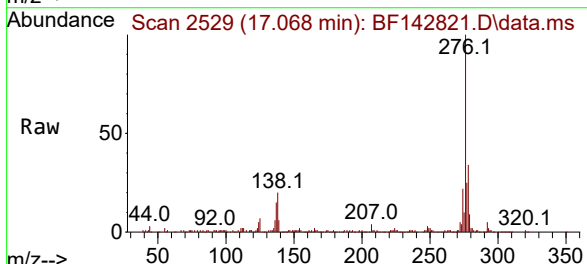
Instrument :
BNA_F
ClientSampleId :
SU-1-062025

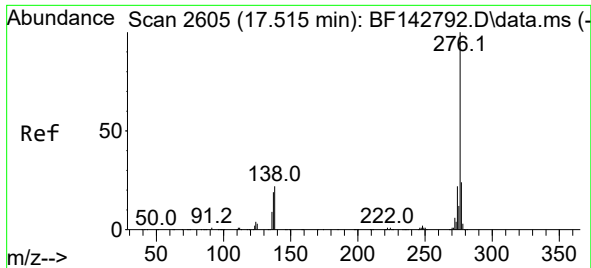
Tgt Ion:252 Resp: 620096
Ion Ratio Lower Upper
252 100
253 22.4 17.5 26.3
125 10.6 8.6 12.8



#91
Dibenzo(a,h)anthracene
Concen: 7.189 ng
RT: 17.068 min Scan# 2529
Delta R.T. -0.006 min
Lab File: BF142821.D
Acq: 24 Jun 2025 15:59

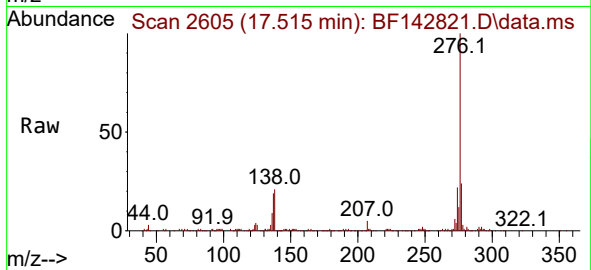
Tgt Ion:278 Resp: 54166
Ion Ratio Lower Upper
278 100
139 17.7 13.5 20.3
279 25.3 18.8 28.2





#92
 Benzo(g,h,i)perylene
 Concen: 20.503 ng
 RT: 17.515 min Scan# 20
 Delta R.T. 0.000 min
 Lab File: BF142821.D
 Acq: 24 Jun 2025 15:59

Instrument :
 BNA_F
 ClientSampleId :
 SU-1-062025



Tgt Ion:	276	Resp:	154040
Ion Ratio	Lower	Upper	
276	100		
277	23.9	18.8	28.2
138	21.2	17.6	26.4

