

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)

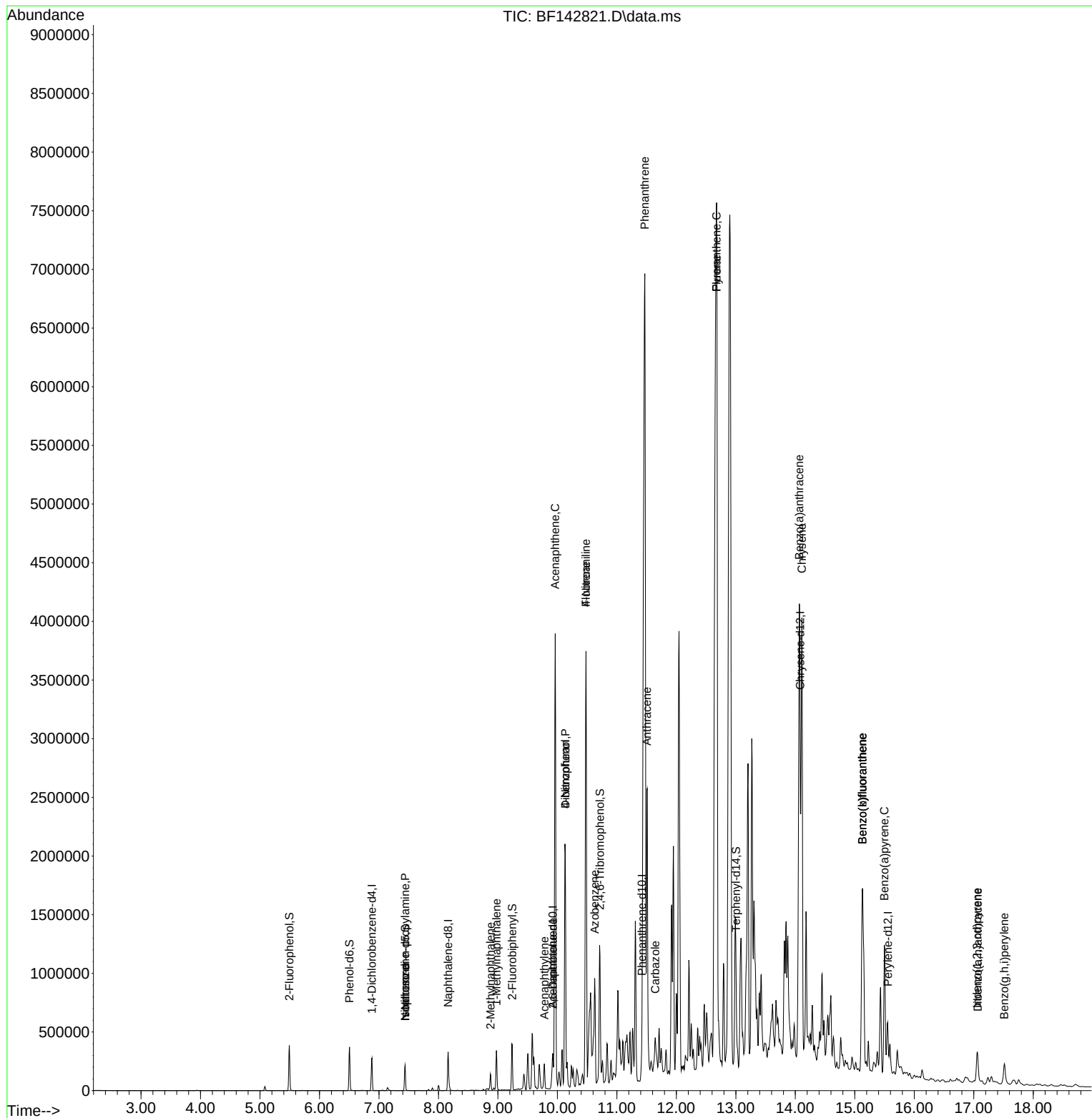
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.881	152	61352	20.000	ng	0.00
21) Naphthalene-d8	8.163	136	204710	20.000	ng	0.00
39) Acenaphthene-d10	9.922	164	88847	20.000	ng	0.00
64) Phenanthrene-d10	11.422	188	155434	20.000	ng	0.01
76) Chrysene-d12	14.080	240	159962	20.000	ng	0.02
86) Perylene-d12	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
19) n-Nitroso-di-n-propyla...	7.439	70	11765	4.653	ng	# 75
25) Isophorone	7.439	82	89634	14.972	ng	# 62
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
51) 2,6-Dinitrotoluene	9.922	165	18160	14.379	ng	# 31
52) Acenaphthene	9.963	154	1342818	253.842	ng	99
55) Dibenzofuran	10.133	168	1172691	154.593	ng	99
56) 4-Nitrophenol	10.133	139	458281	481.395	ng	# 11
58) Fluorene	10.480	166	1663329	280.764	ng	99
62) 4-Nitroaniline	10.480	138	19705	15.494	ng	# 24
63) Azobenzene	10.627	77	19028	3.776	ng	# 1
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	12.674	202	9275969	618.650	ng	95
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	1644198	233.404	ng	98
89) Benzo(k)fluoranthene	15.127	252	1644198	249.477	ng	98
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

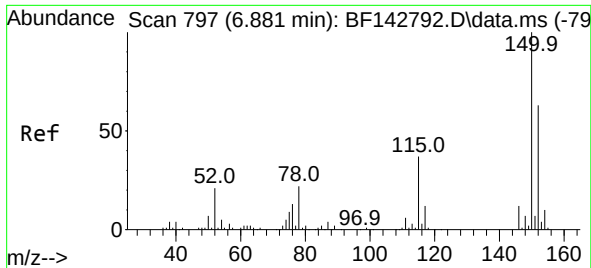
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

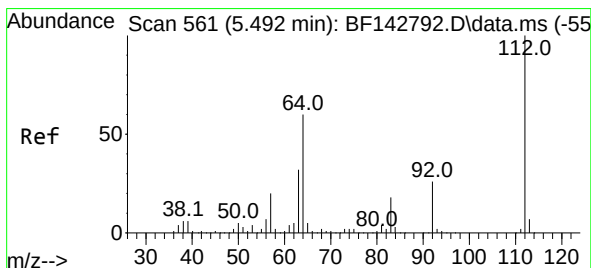
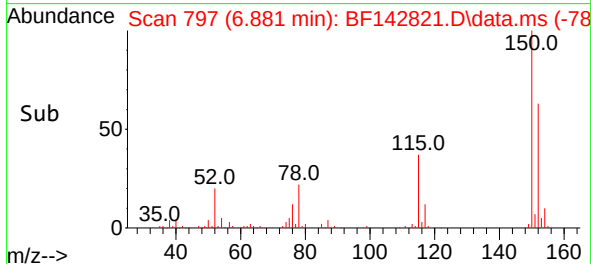
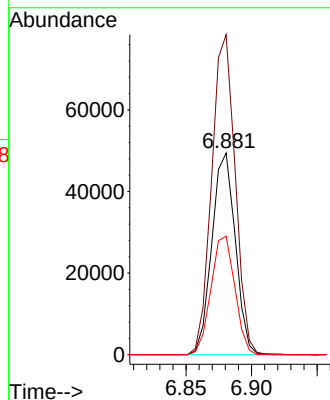
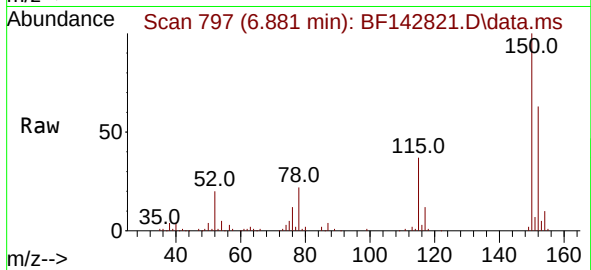




#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.881 min Scan# 797
 Delta R.T. -0.000 min
 Lab File: BF142821.D
 Acq: 24 Jun 2025 15:59

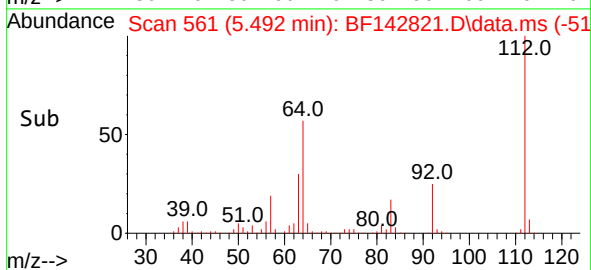
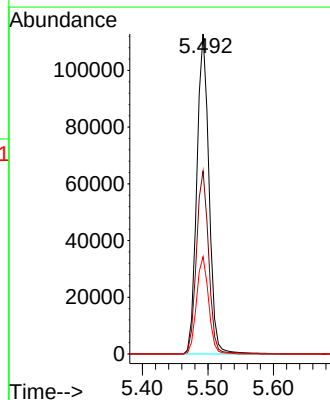
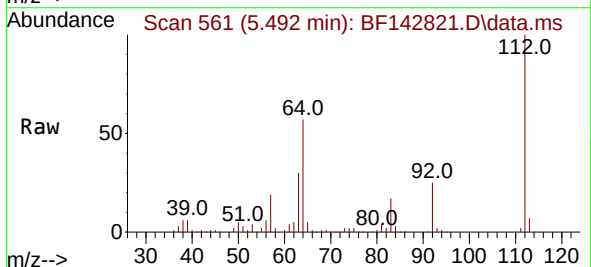
Instrument :
 BNA_F
 ClientSampleId :
 SU-1-062025

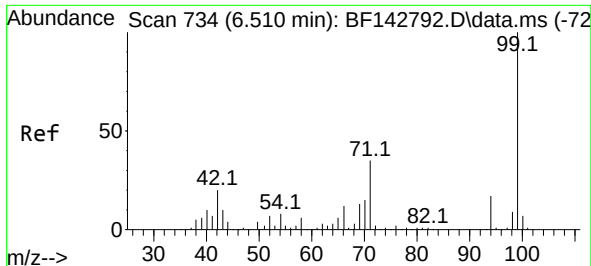
Tgt Ion:152 Resp: 61352
 Ion Ratio Lower Upper
 152 100
 150 158.8 127.2 190.8
 115 58.8 46.6 69.8



#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

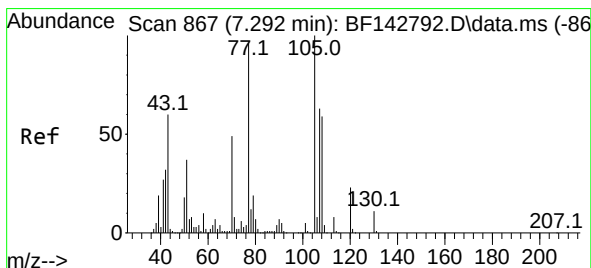
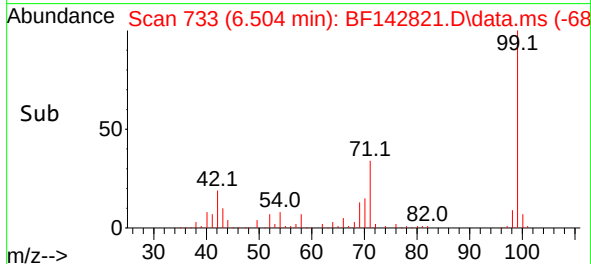
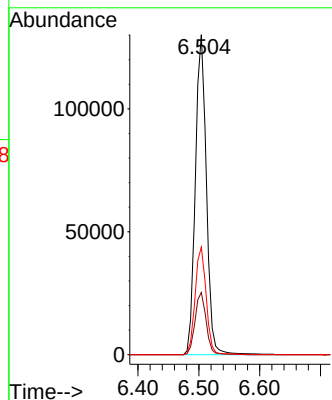
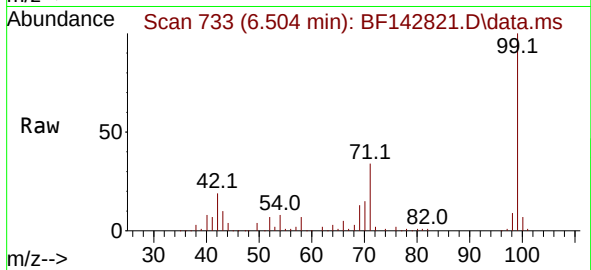




#7
Phenol-d6
Concen: 37.753 ng
RT: 6.504 min Scan# 71
Delta R.T. -0.006 min
Lab File: BF142821.D
Acq: 24 Jun 2025 15:59

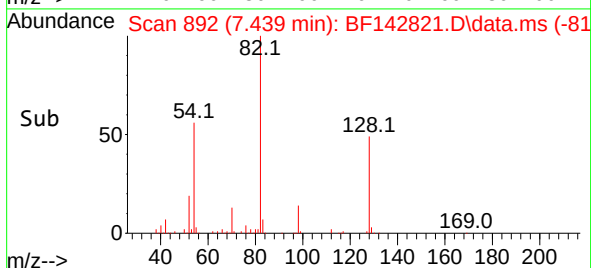
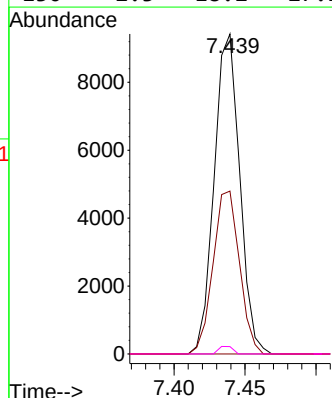
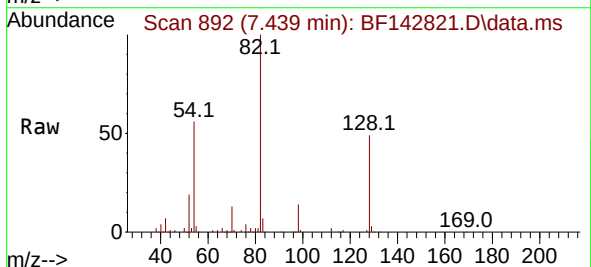
Instrument :
BNA_F
ClientSampleId :
SU-1-062025

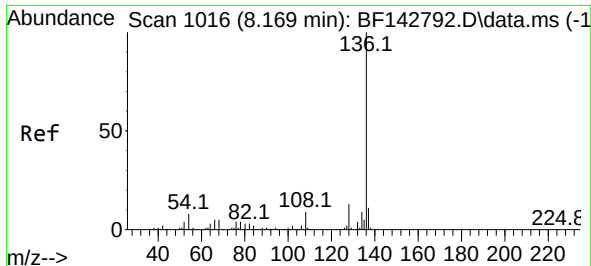
Tgt Ion: 99 Resp: 164134
Ion Ratio Lower Upper
99 100
42 19.5 15.9 23.9
71 33.7 27.8 41.8



#19
n-Nitroso-di-n-propylamine
Concen: 4.653 ng
RT: 7.439 min Scan# 892
Delta R.T. 0.147 min
Lab File: BF142821.D
Acq: 24 Jun 2025 15:59

Tgt Ion: 70 Resp: 11765
Ion Ratio Lower Upper
70 100
42 50.9 52.1 78.1#
101 0.0 8.2 12.2#
130 2.3 18.2 27.2#

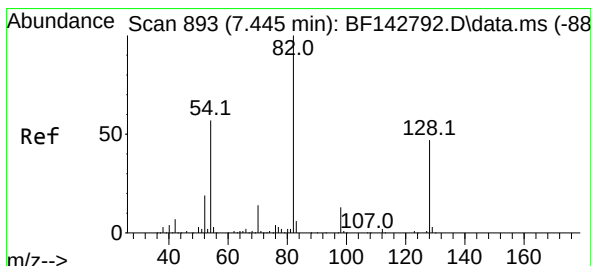
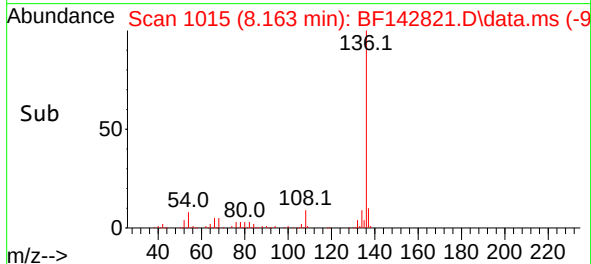
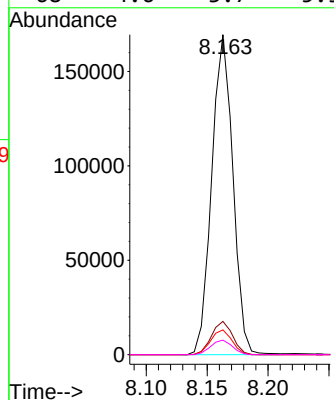
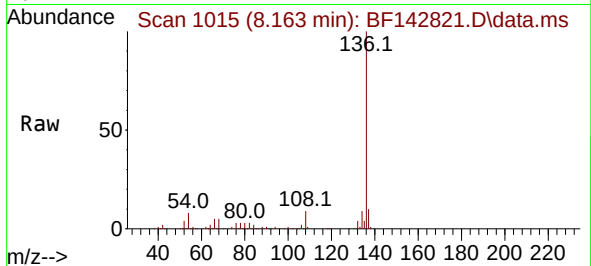




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.163 min Scan# 1016
Delta R.T. -0.006 min
Lab File: BF142821.D
Acq: 24 Jun 2025 15:59

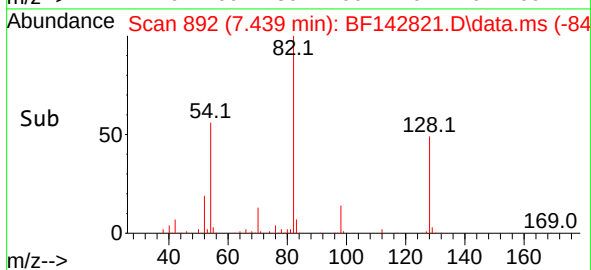
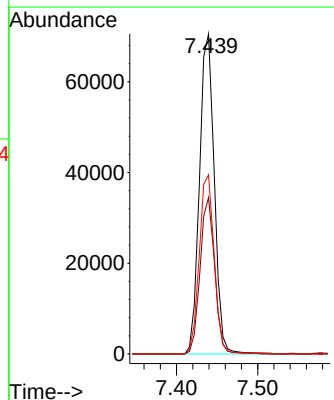
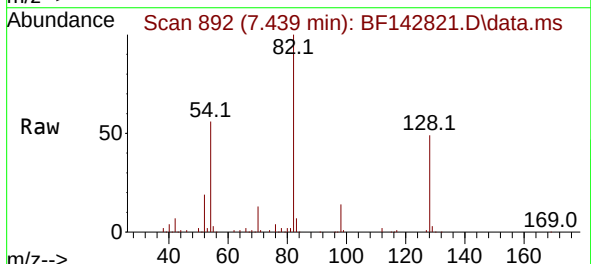
Instrument :
BNA_F
ClientSampleId :
SU-1-062025

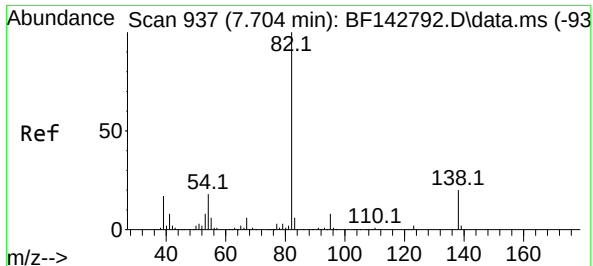
Tgt Ion:136 Resp: 204710
Ion Ratio Lower Upper
136 100
137 10.4 8.4 12.6
54 7.8 6.3 9.5
68 4.6 3.7 5.5



#23
Nitrobenzene-d5
Concen: 24.014 ng
RT: 7.439 min Scan# 892
Delta R.T. -0.006 min
Lab File: BF142821.D
Acq: 24 Jun 2025 15:59

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

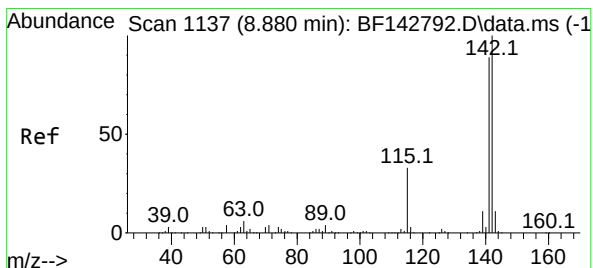
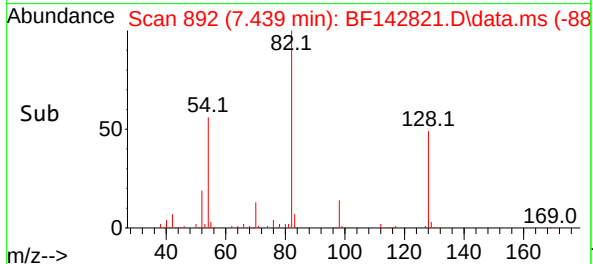
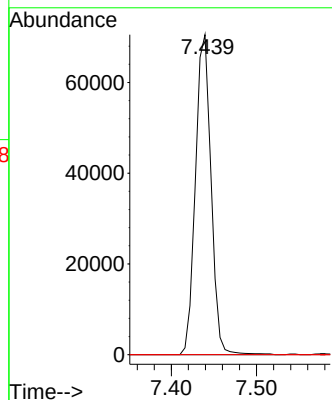
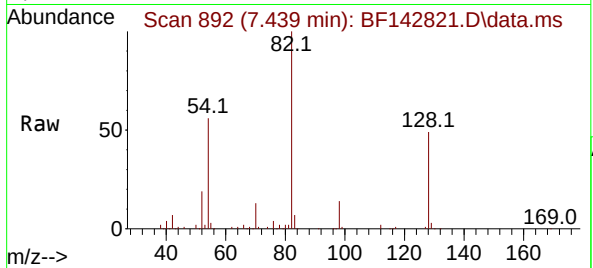




#25
Isophorone
Concen: 14.972 ng
RT: 7.439 min Scan# 89
Delta R.T. -0.265 min
Lab File: BF142821.D
Acq: 24 Jun 2025 15:59

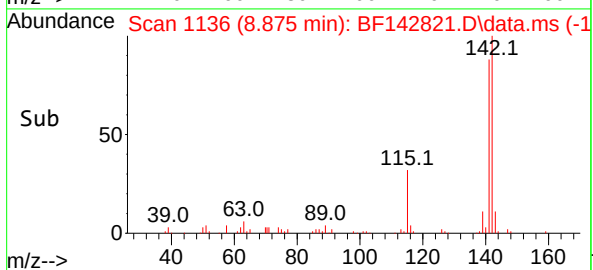
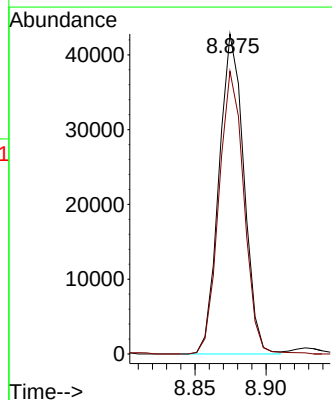
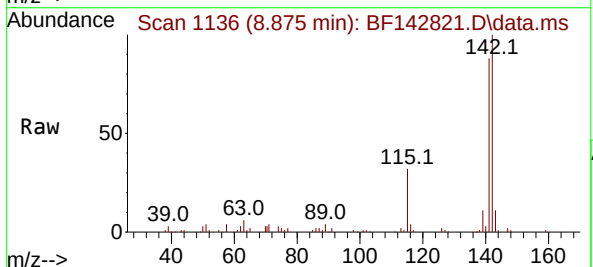
Instrument :
BNA_F
ClientSampleId :
SU-1-062025

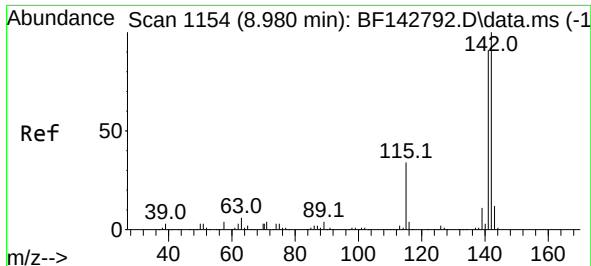
Tgt Ion: 82 Resp: 89634
Ion Ratio Lower Upper
82 100
95 0.0 6.2 9.2#
138 0.0 16.2 24.4#



#37
2-Methylnaphthalene
Concen: 8.389 ng
RT: 8.875 min Scan# 1136
Delta R.T. -0.006 min
Lab File: BF142821.D
Acq: 24 Jun 2025 15:59

Tgt Ion: 142 Resp: 52116
Ion Ratio Lower Upper
142 100
141 88.4 70.9 106.3

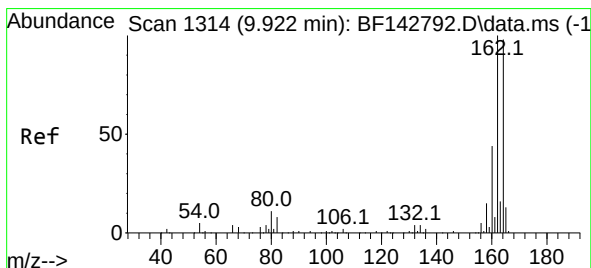
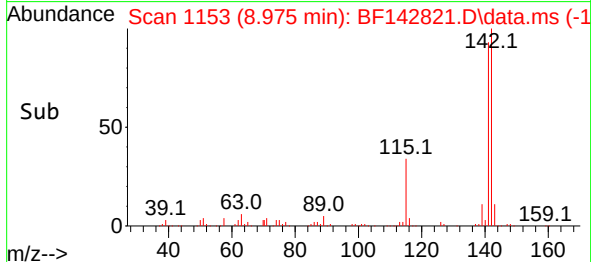
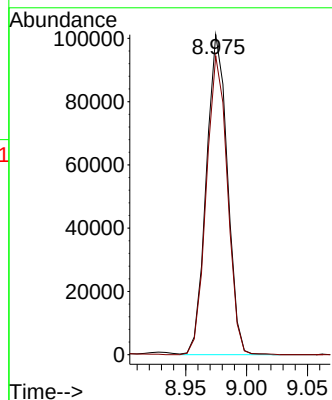
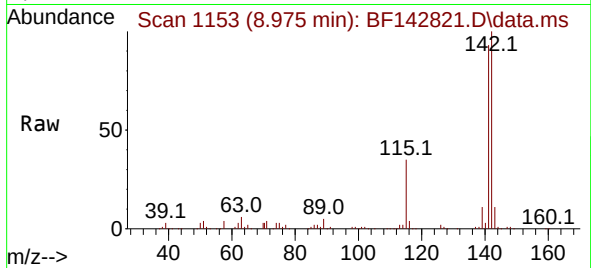




#38
1-Methylnaphthalene
Concen: 18.948 ng
RT: 8.975 min Scan# 1153
Delta R.T. -0.006 min
Lab File: BF142821.D
Acq: 24 Jun 2025 15:59

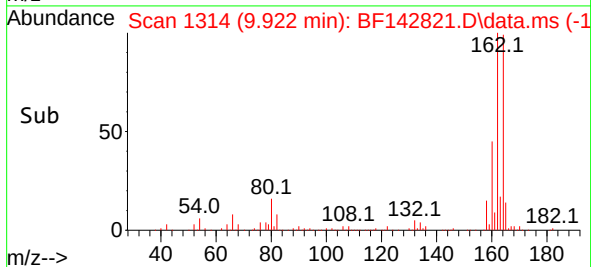
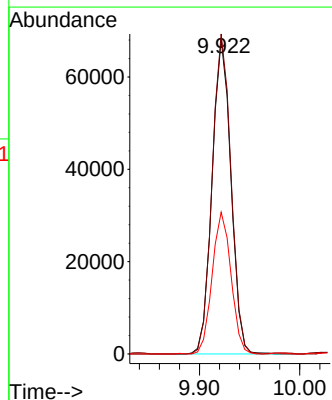
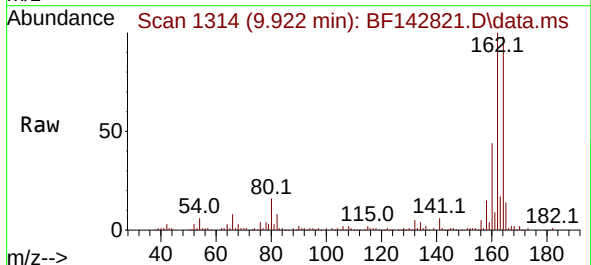
Instrument :
BNA_F
ClientSampleId :
SU-1-062025

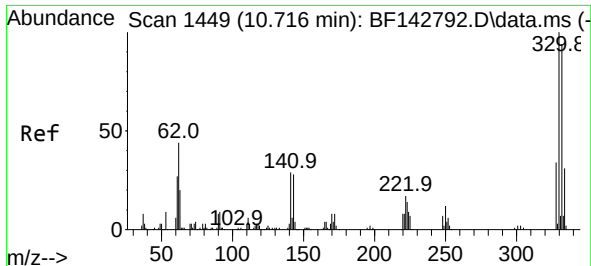
Tgt Ion:142 Resp: 121852
Ion Ratio Lower Upper
142 100
141 93.3 73.0 109.4



#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

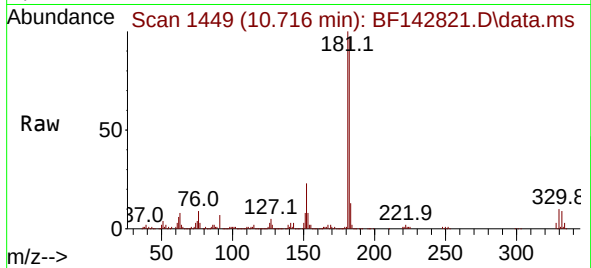
Acq: 24 Jun 2025 15:59

Instrument :

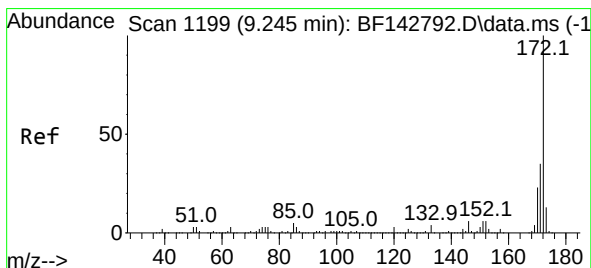
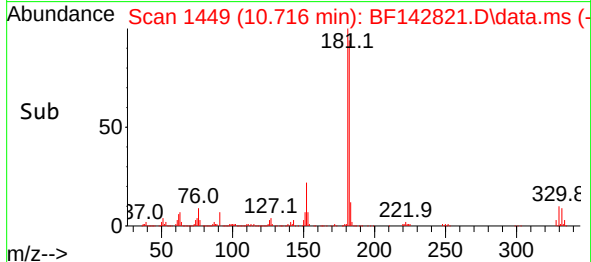
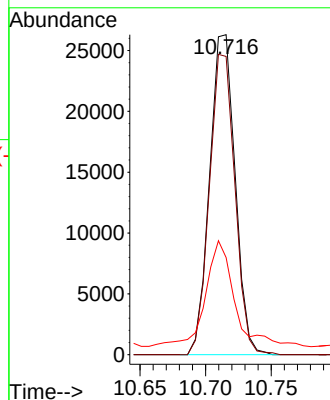
BNA_F

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

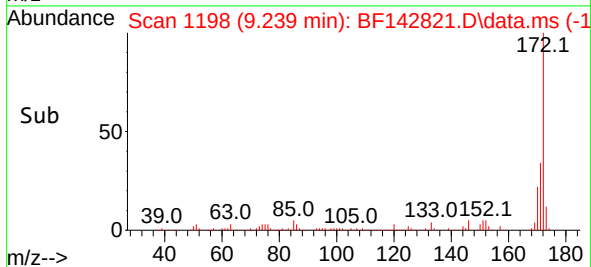
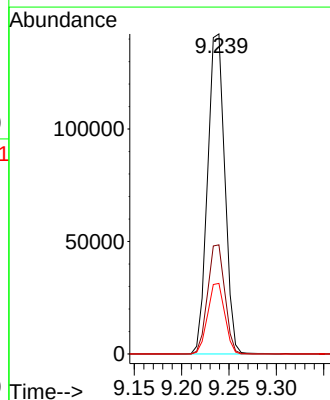
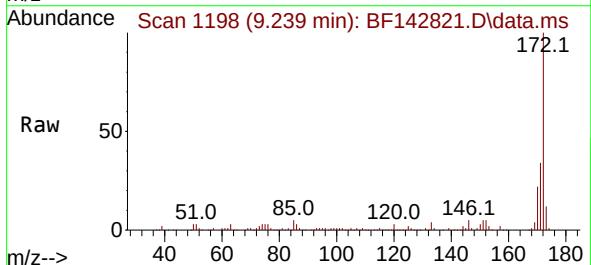
RT: 9.239 min Scan# 1198

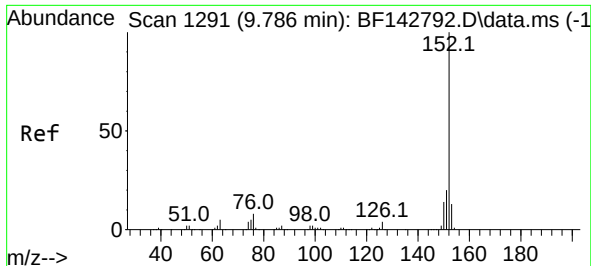
Delta R.T. -0.006 min

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

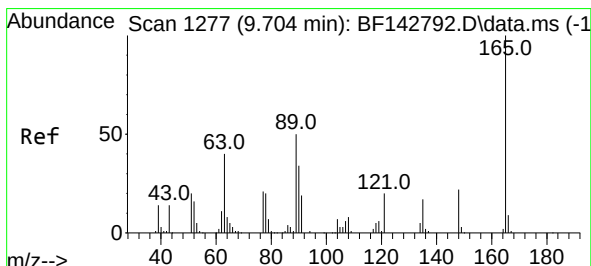
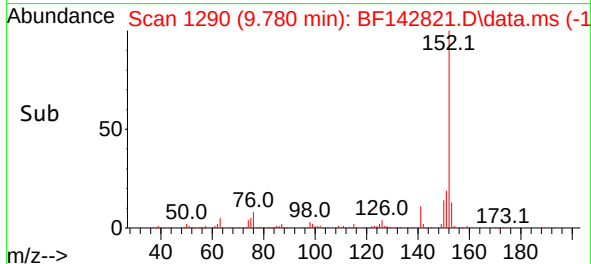
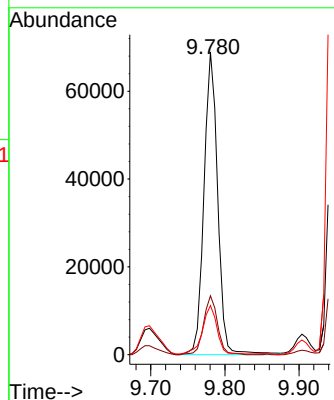
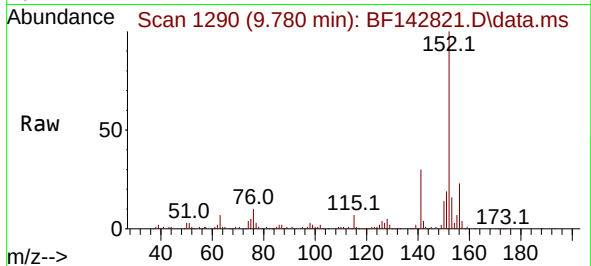




#49
Acenaphthylene
Concen: 10.244 ng
RT: 9.780 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF142821.D
Acq: 24 Jun 2025 15:59

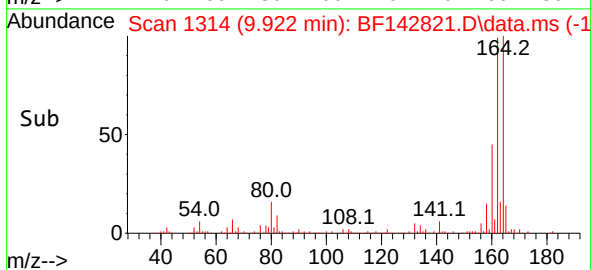
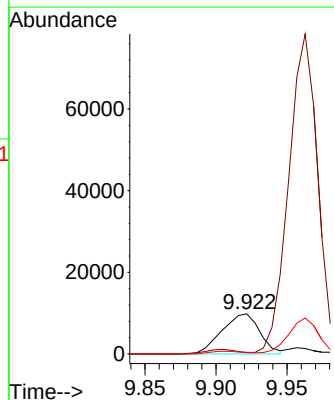
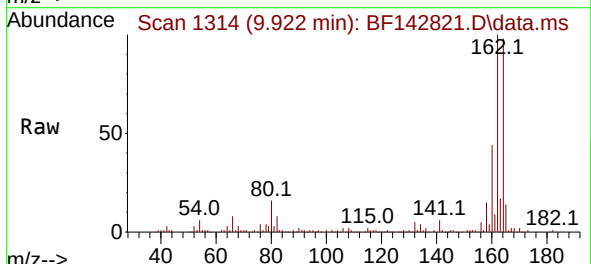
Instrument :
BNA_F
ClientSampleId :
SU-1-062025

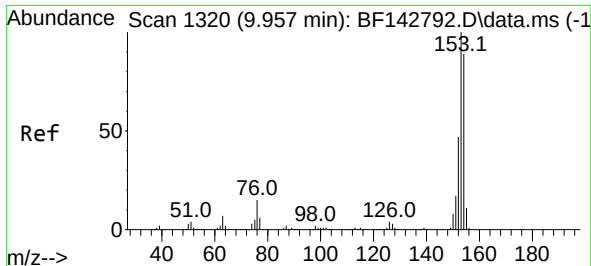
Tgt Ion:152 Resp: 88817
Ion Ratio Lower Upper
152 100
151 19.5 16.1 24.1
153 16.2 10.4 15.6#



#51
2,6-Dinitrotoluene
Concen: 14.379 ng
RT: 9.922 min Scan# 1314
Delta R.T. 0.218 min
Lab File: BF142821.D
Acq: 24 Jun 2025 15:59

Tgt Ion:165 Resp: 18160
Ion Ratio Lower Upper
165 100
63 3.9 44.2 66.4#
89 3.3 39.8 59.8#

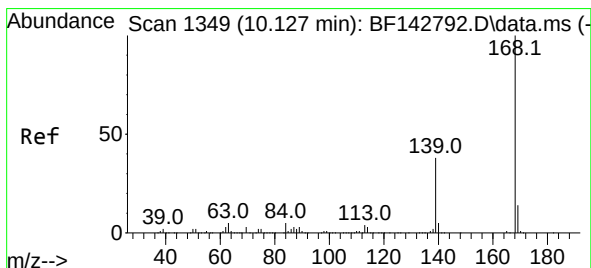
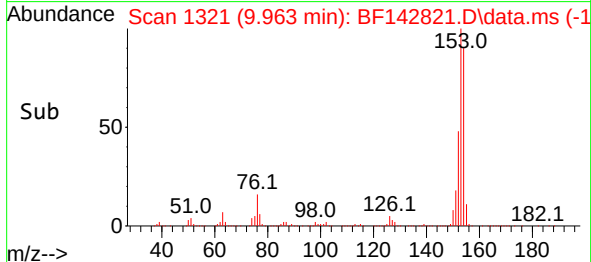
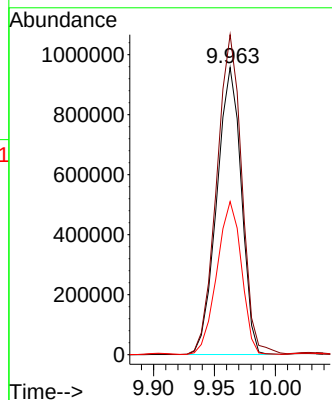
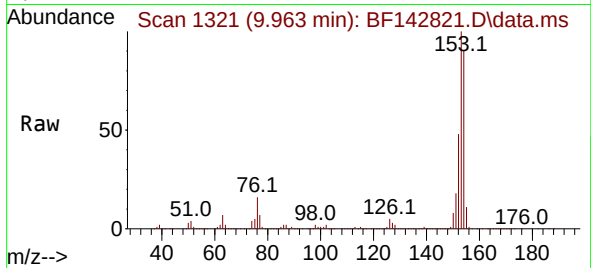




#52
Acenaphthene
Concen: 253.842 ng
RT: 9.963 min Scan# 1321
Delta R.T. 0.006 min
Lab File: BF142821.D
Acq: 24 Jun 2025 15:59

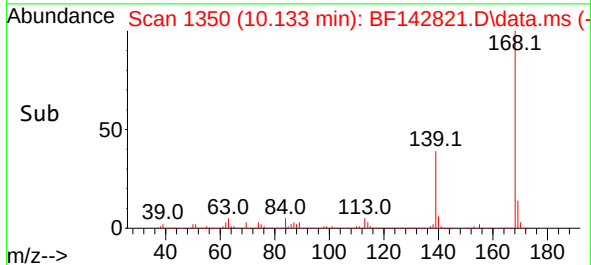
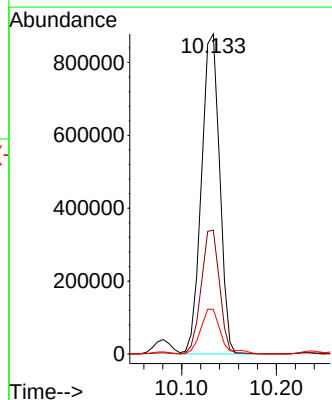
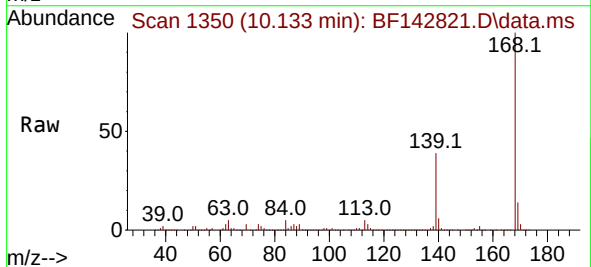
Instrument :
BNA_F
ClientSampleId :
SU-1-062025

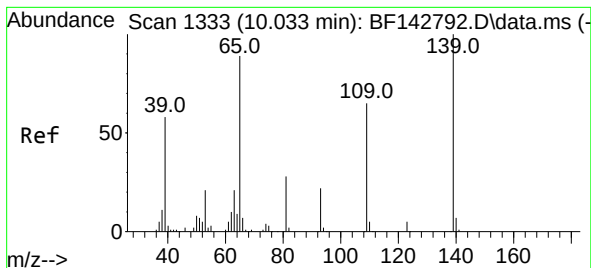
Tgt Ion:154 Resp: 1342818
Ion Ratio Lower Upper
154 100
153 111.4 90.0 135.0
152 53.3 41.9 62.9



#55
Dibenzofuran
Concen: 154.593 ng
RT: 10.133 min Scan# 1350
Delta R.T. 0.006 min
Lab File: BF142821.D
Acq: 24 Jun 2025 15:59

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

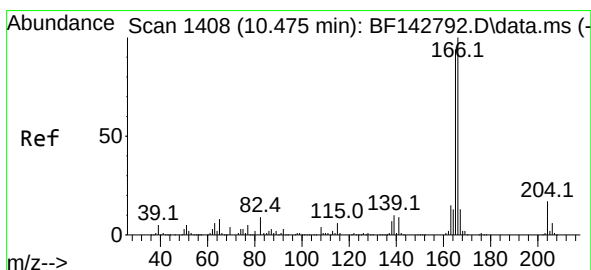
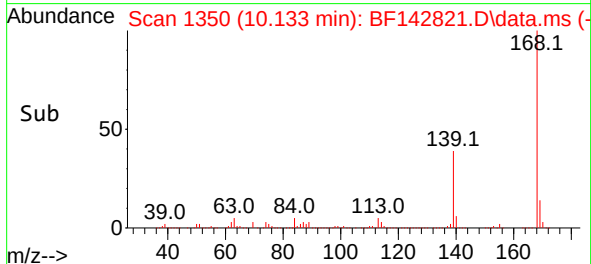
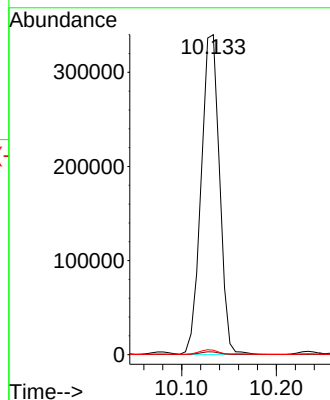
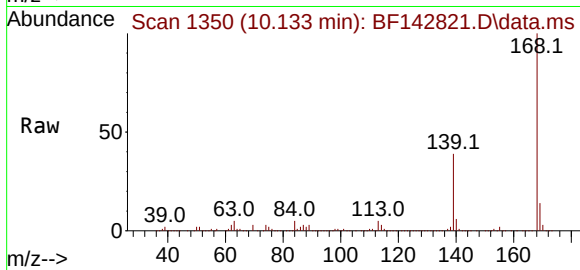




#56
4-Nitrophenol
Concen: 481.395 ng
RT: 10.133 min Scan# 1333
Delta R.T. 0.100 min
Lab File: BF142821.D
Acq: 24 Jun 2025 15:59

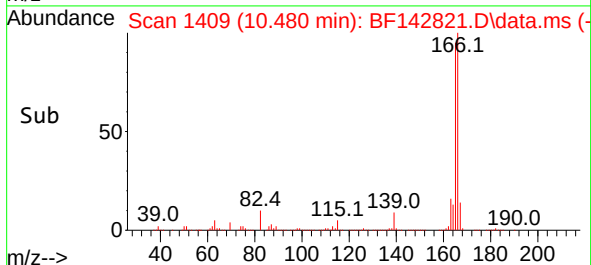
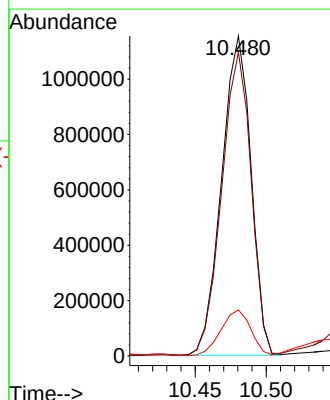
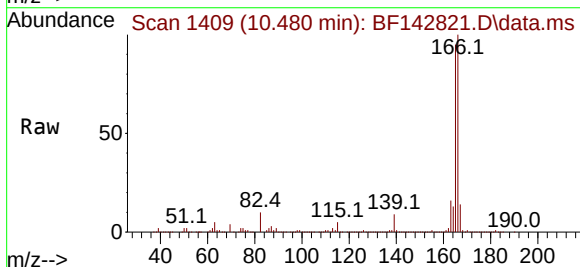
Instrument :
BNA_F
ClientSampleId :
SU-1-062025

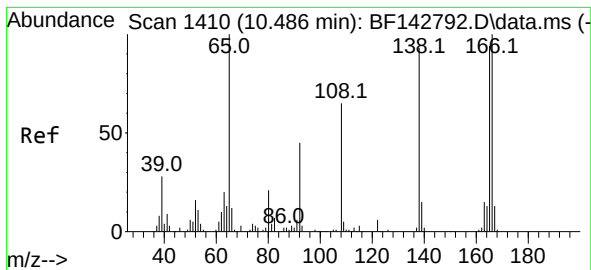
Tgt Ion:139 Resp: 458281
Ion Ratio Lower Upper
139 100
109 0.8 44.7 84.7#
65 1.4 69.8 109.8#



#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

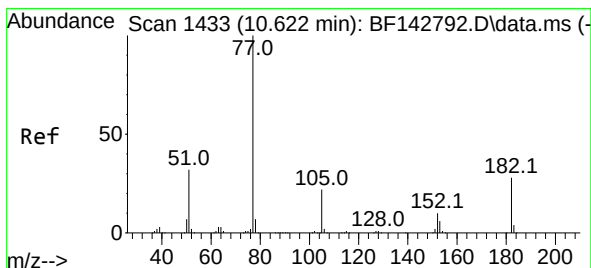
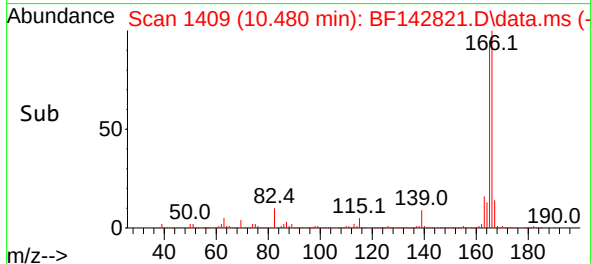
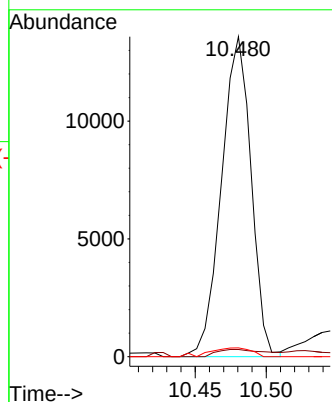
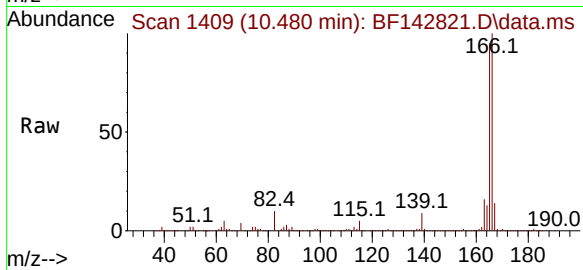




#62
4-Nitroaniline
Concen: 15.494 ng
RT: 10.480 min Scan# 1410
Delta R.T. -0.006 min
Lab File: BF142821.D
Acq: 24 Jun 2025 15:59

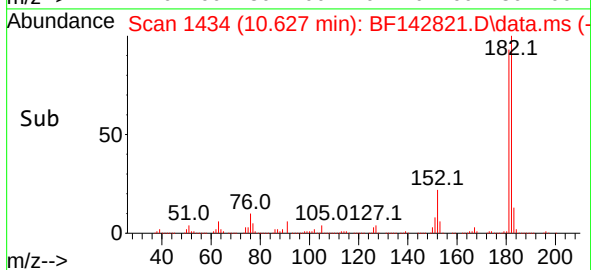
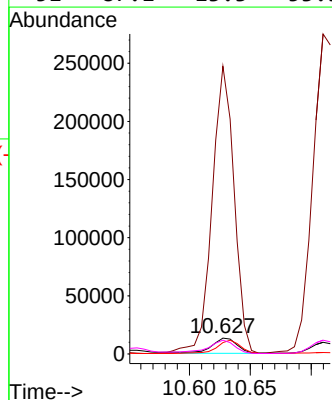
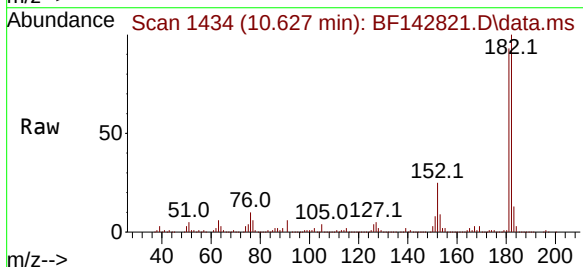
Instrument :
BNA_F
ClientSampleId :
SU-1-062025

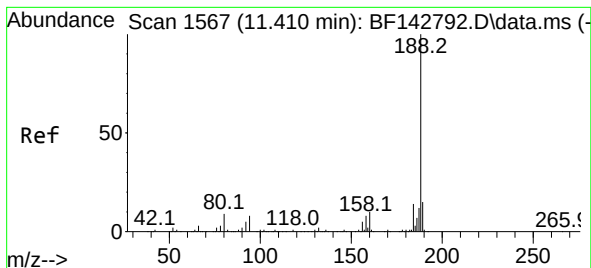
Tgt Ion:138 Resp: 19705
Ion Ratio Lower Upper
138 100
92 2.2 28.4 68.4#
108 2.7 50.2 90.2#



#63
Azobenzene
Concen: 3.776 ng
RT: 10.627 min Scan# 1434
Delta R.T. 0.006 min
Lab File: BF142821.D
Acq: 24 Jun 2025 15:59

Tgt Ion: 77 Resp: 19028
Ion Ratio Lower Upper
77 100
182 1808.1 7.7 47.7#
105 71.0 1.9 41.9#
51 87.1 13.3 53.3#





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.422 min Scan# 1

Delta R.T. 0.012 min

Lab File: BF142821.D

Acq: 24 Jun 2025 15:59

Instrument :

BNA_F

ClientSampleId :

SU-1-062025

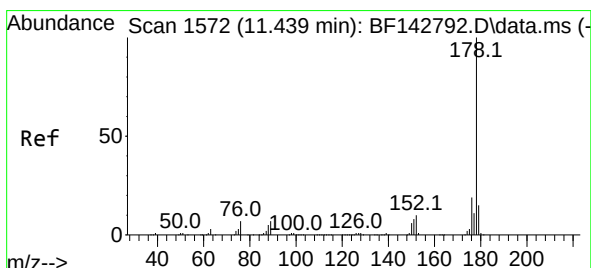
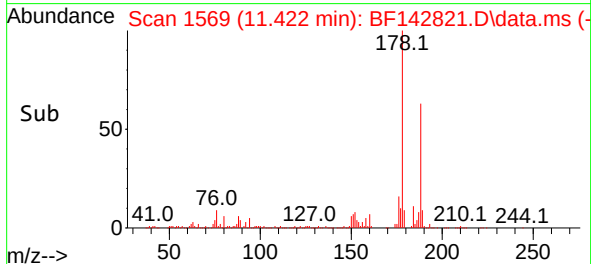
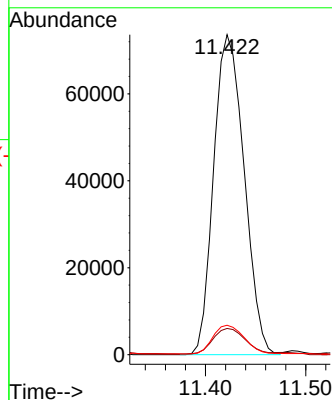
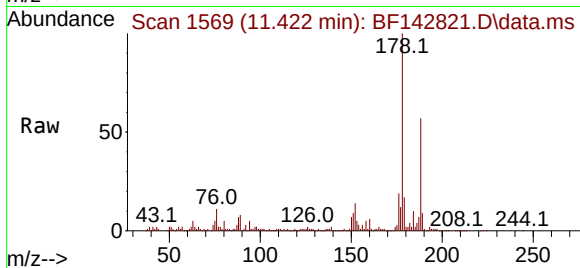
Tgt Ion:188 Resp: 155434

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

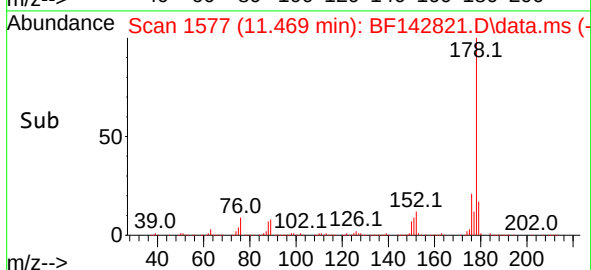
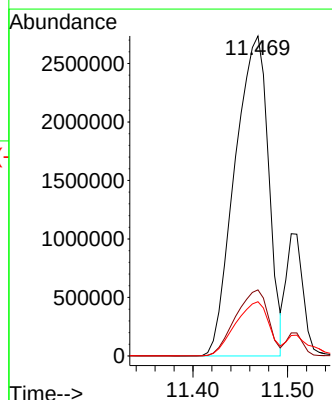
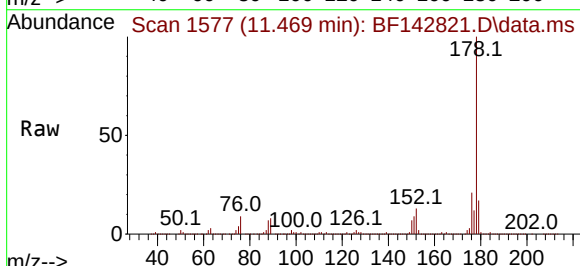
Tgt Ion:178 Resp: 6749921

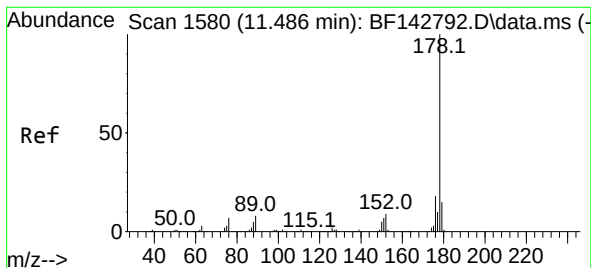
Ion Ratio Lower Upper

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

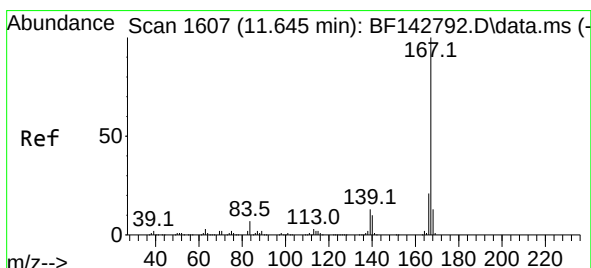
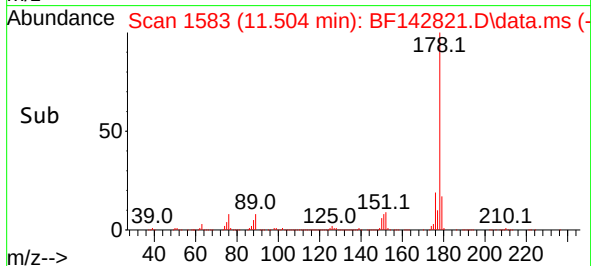
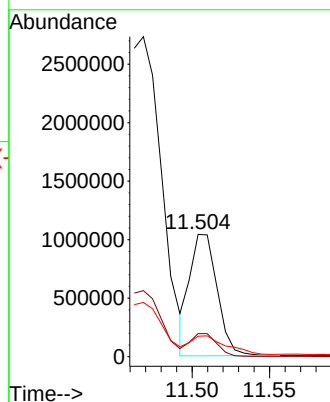
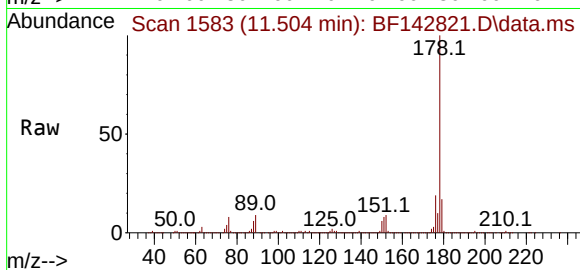
Tgt Ion:178 Resp: 1277833

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

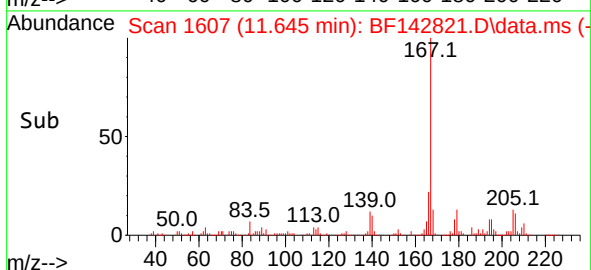
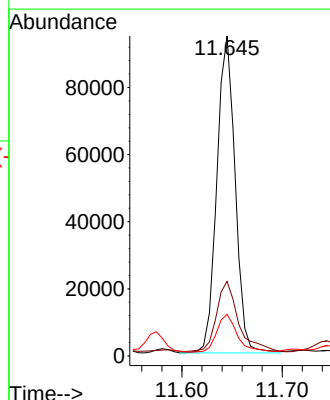
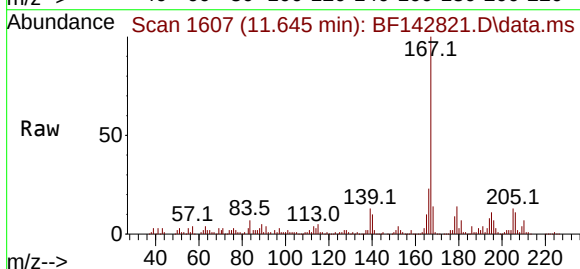
Tgt Ion:167 Resp: 119656

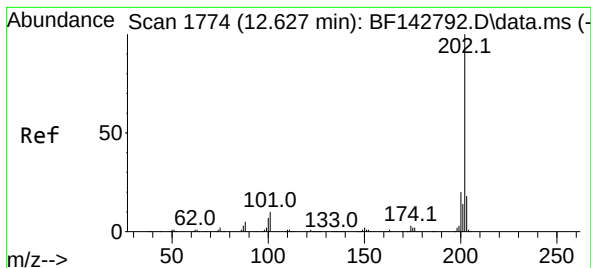
Ion Ratio Lower Upper

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

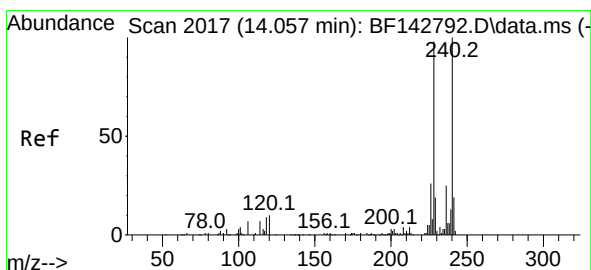
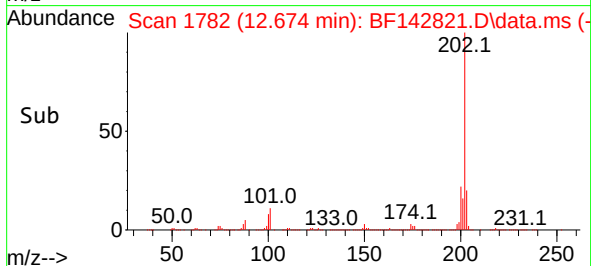
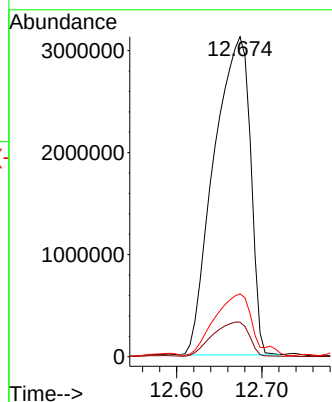
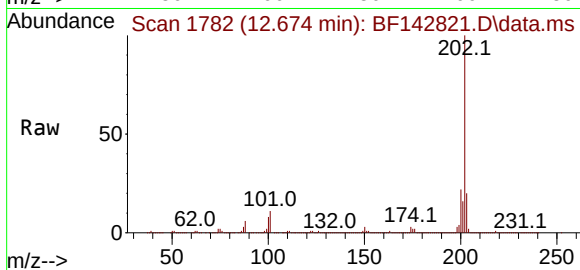
Tgt Ion:202 Resp: 9275969

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

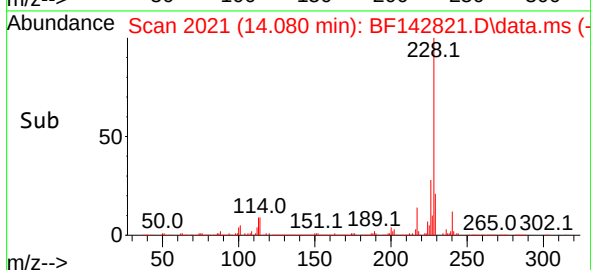
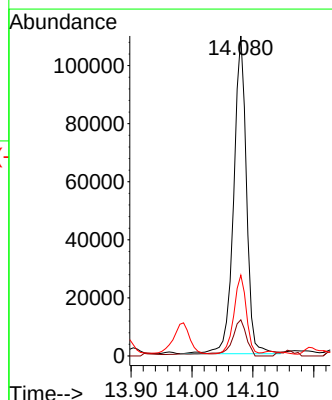
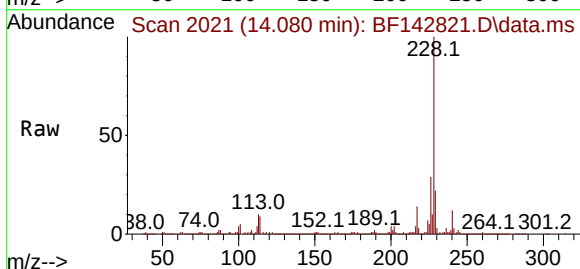
Tgt Ion:240 Resp: 159962

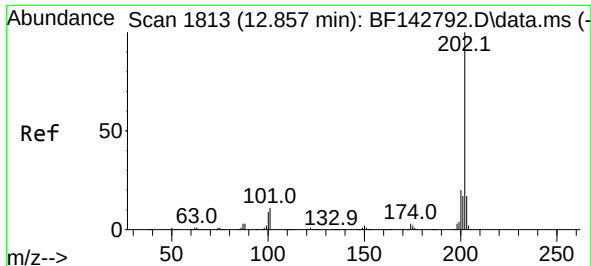
Ion Ratio Lower Upper

240 100

120 11.3 8.2 12.2

236 25.2 19.8 29.8

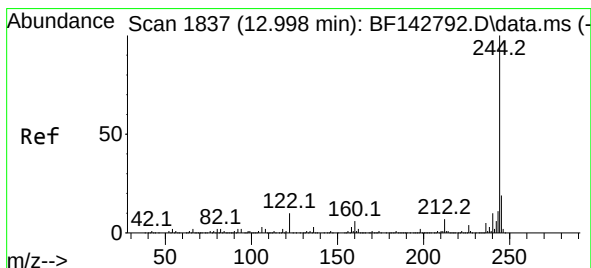
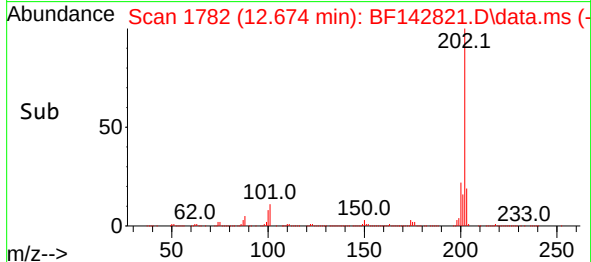
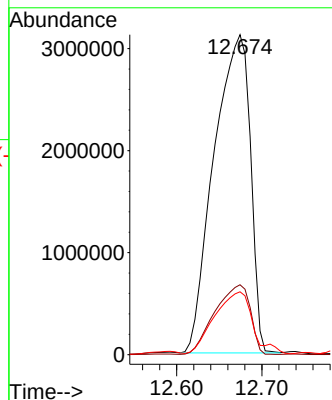
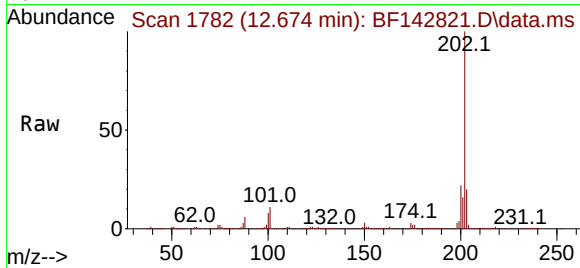




#78
Pyrene
Concen: 618.650 ng
RT: 12.674 min Scan# 1
Delta R.T. -0.182 min
Lab File: BF142821.D
Acq: 24 Jun 2025 15:59

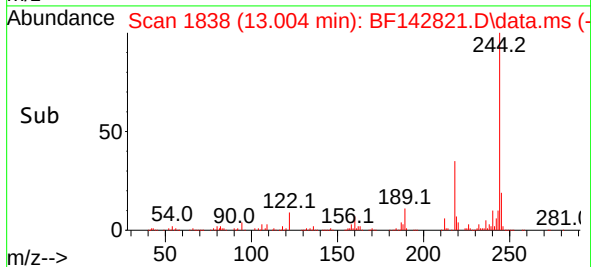
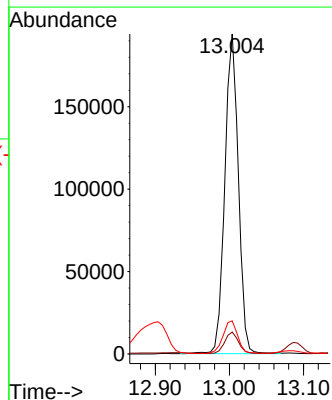
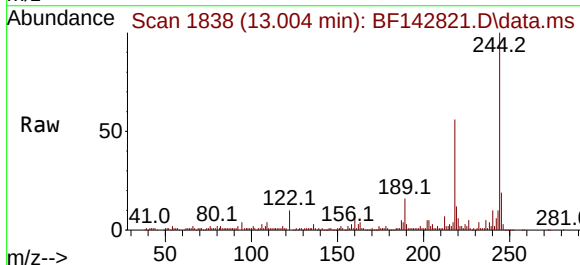
Instrument :
BNA_F
ClientSampleId :
SU-1-062025

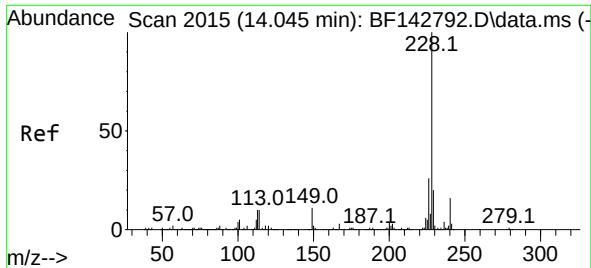
Tgt Ion:202 Resp: 9275969
Ion Ratio Lower Upper
202 100
200 21.9 15.7 23.5
203 19.7 13.8 20.6



#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

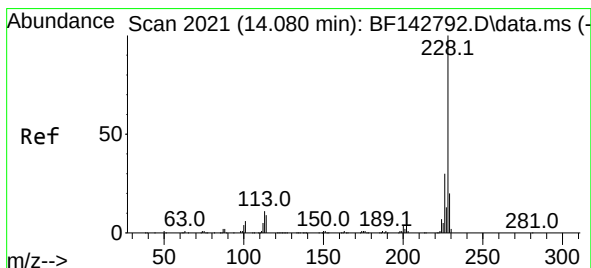
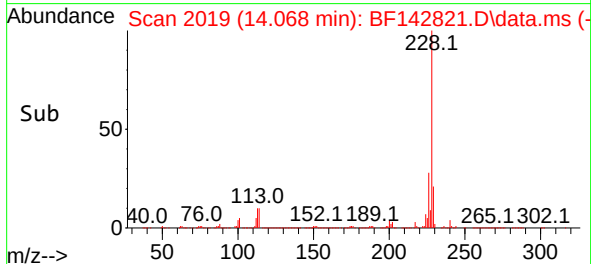
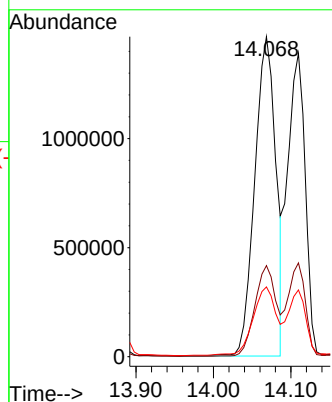
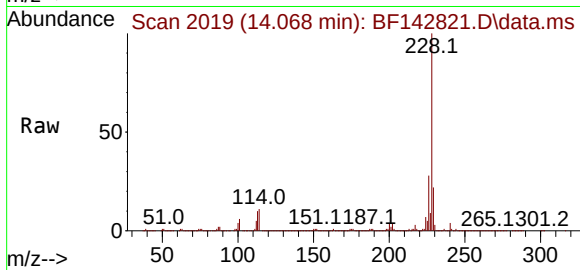




#81
Benzo(a)anthracene
Concen: 257.081 ng
RT: 14.068 min Scan# 2019
Delta R.T. 0.024 min
Lab File: BF142821.D
Acq: 24 Jun 2025 15:59

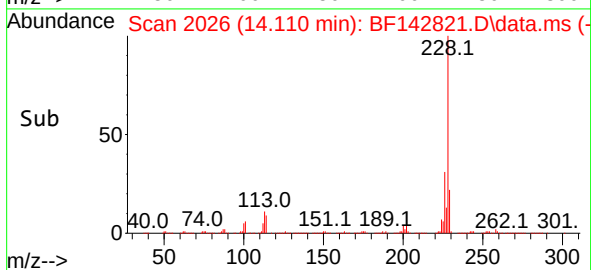
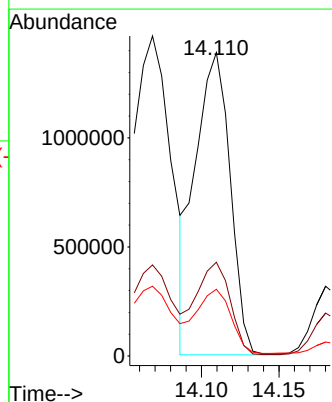
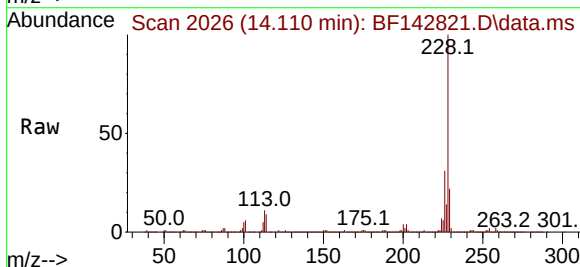
Instrument :
BNA_F
ClientSampleId :
SU-1-062025

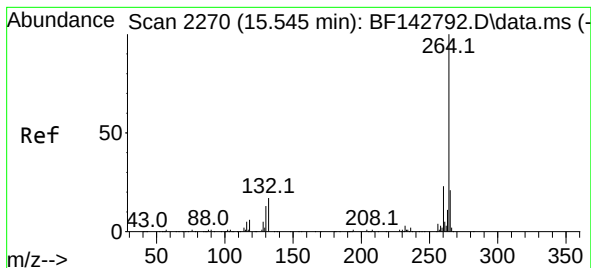
Tgt Ion:228 Resp: 2774203
Ion Ratio Lower Upper
228 100
226 28.5 21.2 31.8
229 21.8 15.6 23.4



#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

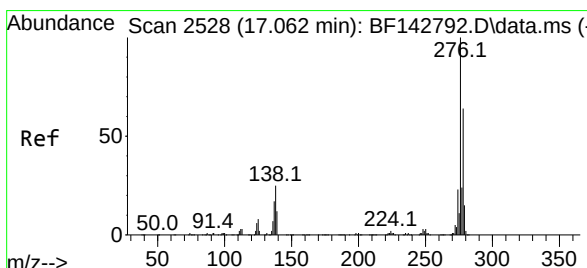
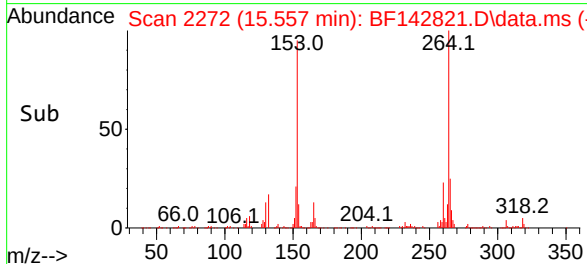
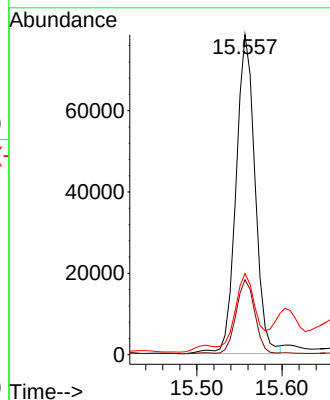
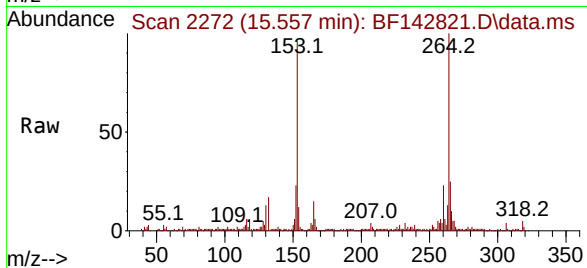
Tgt Ion:264 Resp: 121740

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

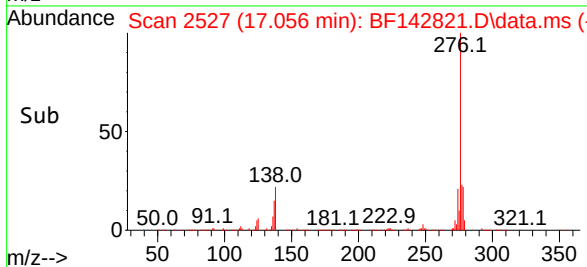
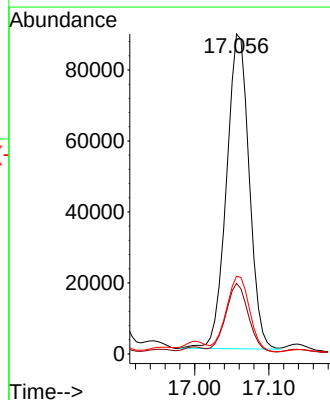
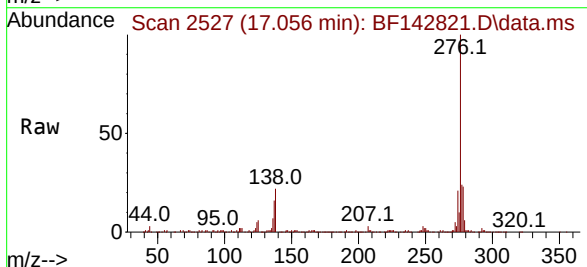
Tgt Ion:276 Resp: 188227

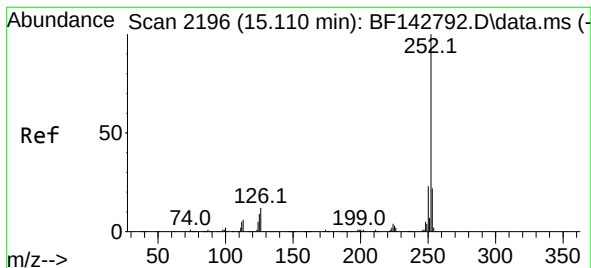
Ion Ratio Lower Upper

276 100

138 22.0 20.2 30.4

277 24.7 19.8 29.6





#88

Benzo(b)fluoranthene

Concen: 233.404 ng

RT: 15.127 min Scan# 2199

Delta R.T. 0.018 min

Lab File: BF142821.D

Acq: 24 Jun 2025 15:59

Instrument :

BNA_F

ClientSampleId :

SU-1-062025

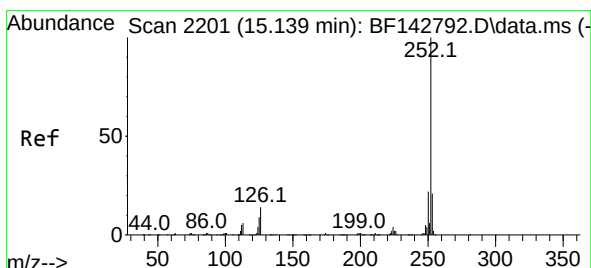
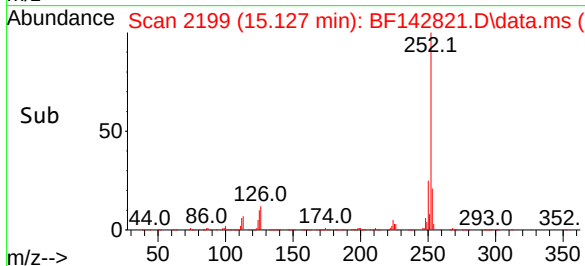
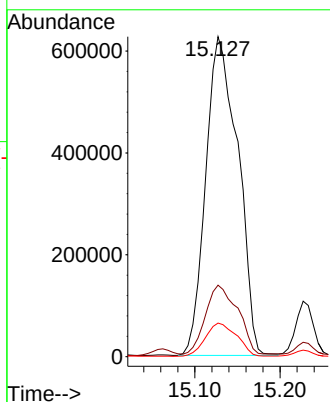
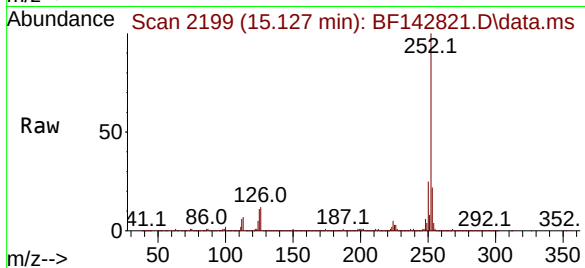
Tgt Ion:252 Resp: 1644198

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: 249.477 ng

RT: 15.127 min Scan# 2199

Delta R.T. -0.012 min

Lab File: BF142821.D

Acq: 24 Jun 2025 15:59

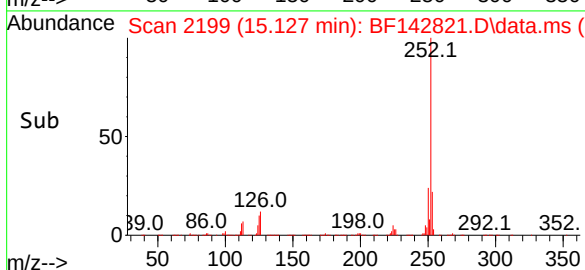
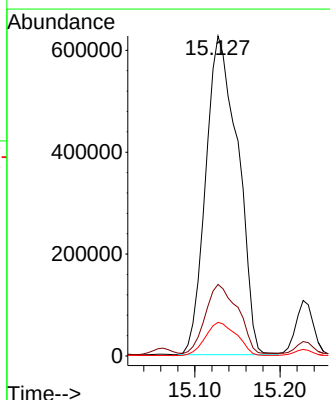
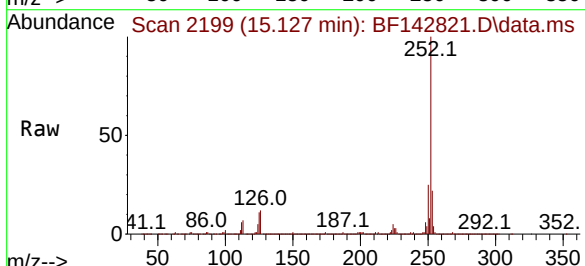
Tgt Ion:252 Resp: 1644198

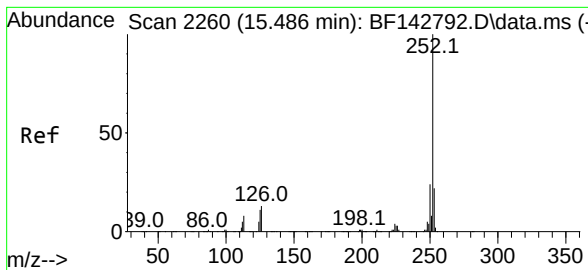
Ion Ratio Lower Upper

252 100

253 22.3 17.2 25.8

125 10.5 7.4 11.2

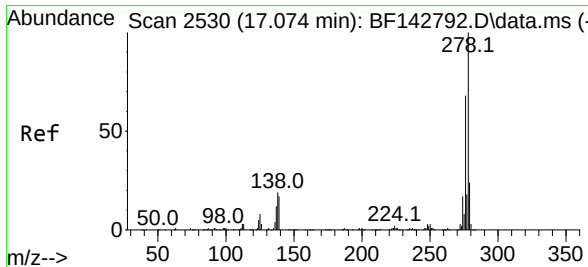
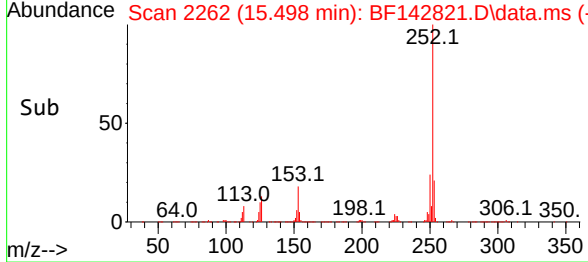
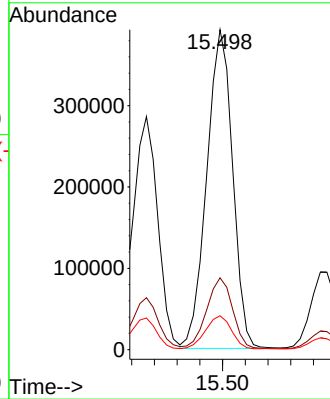
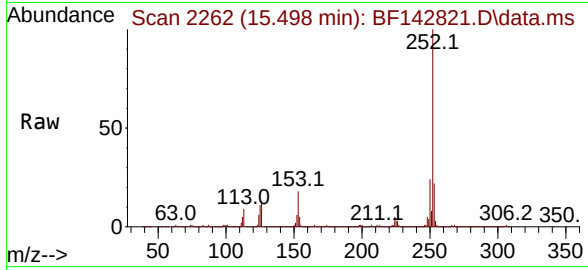




#90
Benzo(a)pyrene
Concen: 91.118 ng
RT: 15.498 min Scan# 21
Delta R.T. 0.012 min
Lab File: BF142821.D
Acq: 24 Jun 2025 15:59

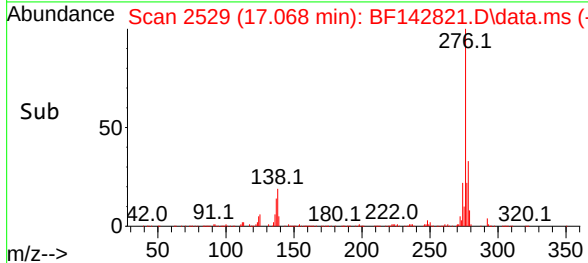
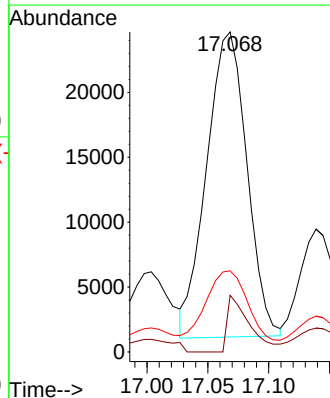
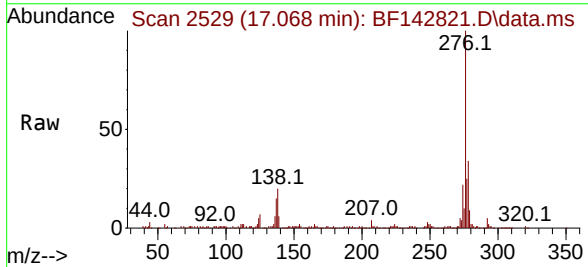
Instrument :
BNA_F
ClientSampleId :
SU-1-062025

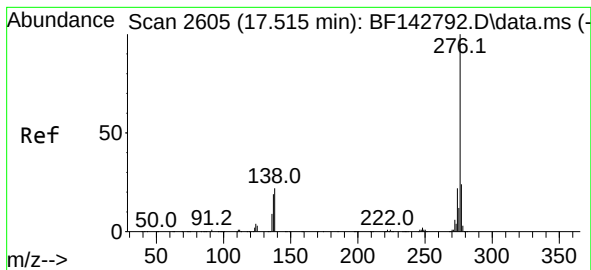
Tgt Ion:252 Resp: 620096
Ion Ratio Lower Upper
252 100
253 22.4 17.5 26.3
125 10.6 8.6 12.8



#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

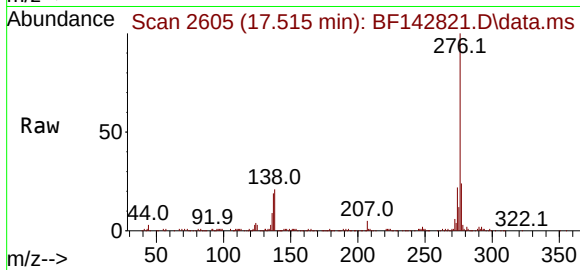
Acq: 24 Jun 2025 15:59

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

