

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF060525\
 Data File : BF142637.D
 Acq On : 05 Jun 2025 16:38
 Operator : RC/JU
 Sample : Q2178-01DL2 200X
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Jun 05 16:59:39 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue May 20 16:26:47 2025
 Response via : Initial Calibration

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

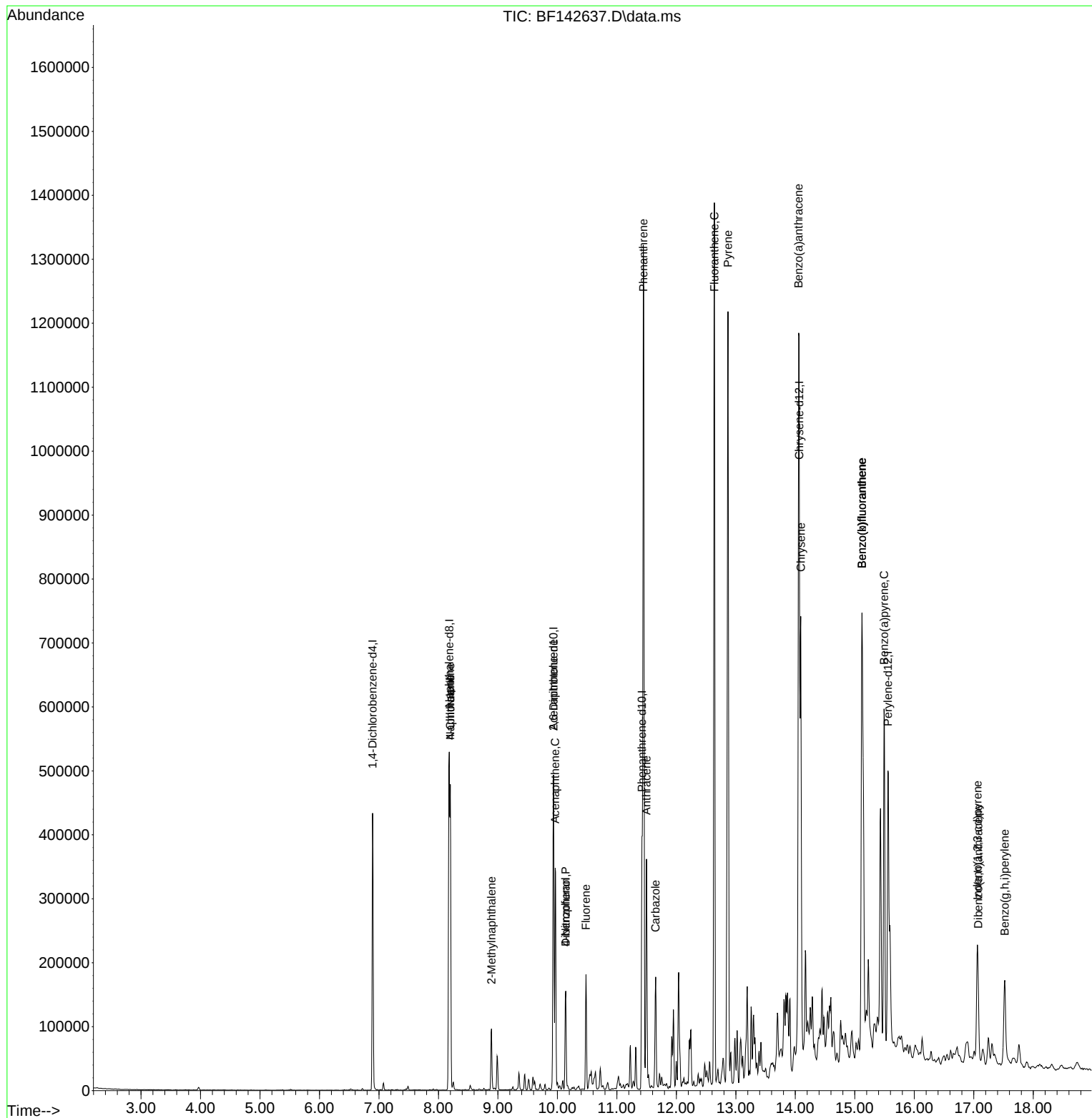
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.892	152	98238	20.000	ng	-0.01
21) Naphthalene-d8	8.181	136	339258	20.000	ng	0.00
39) Acenaphthene-d10	9.933	164	143942	20.000	ng	-0.01
64) Phenanthrene-d10	11.422	188	204032	20.000	ng	-0.01
76) Chrysene-d12	14.068	240	234491	20.000	ng	0.00
86) Perylene-d12	15.557	264	251194	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.516	112	1109	0.190	ng	0.00
7) Phenol-d6	6.522	99	1620	0.231	ng	-0.01
23) Nitrobenzene-d5	7.457	82	803	0.129	ng	-0.02
42) 2,4,6-Tribromophenol	10.722	330	150	0.094	ng	-0.02
45) 2-Fluorobiphenyl	9.251	172	2699	0.252	ng	-0.02
79) Terphenyl-d14	13.004	244	3304	0.193	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	8.198	128	282392	16.905	ng	99
33) 4-Chloroaniline	8.198	127	35757	5.283	ng	# 31
37) 2-Methylnaphthalene	8.892	142	40194	3.825	ng	98
51) 2,6-Dinitrotoluene	9.933	165	19800	9.659	ng	# 28
52) Acenaphthene	9.963	154	112241	13.194	ng	99
55) Dibenzofuran	10.139	168	88190	7.204	ng	96
56) 4-Nitrophenol	10.139	139	30927	18.720	ng	# 11
58) Fluorene	10.480	166	72128	7.626	ng	99
71) Phenanthrene	11.445	178	722027	66.218	ng	100
72) Anthracene	11.498	178	205926	18.505	ng	99
73) Carbazole	11.651	167	94691	9.953	ng	99
75) Fluoranthene	12.639	202	794806	78.010	ng	98
78) Pyrene	12.869	202	714645	32.670	ng	98
81) Benzo(a)anthracene	14.057	228	461324	29.462	ng	99
83) Chrysene	14.092	228	337082	23.958	ng	97
87) Indeno(1,2,3-cd)pyrene	17.062	276	136129	7.219	ng	95
88) Benzo(b)fluoranthene	15.121	252	619465	41.668	ng	# 96
89) Benzo(k)fluoranthene	15.121	252	619465	44.488	ng	# 96
90) Benzo(a)pyrene	15.492	252	321613	22.950	ng	96
91) Dibenzo(a,h)anthracene	17.074	278	35531	2.323	ng	94
92) Benzo(g,h,i)perylene	17.521	276	115835	7.572	ng	97

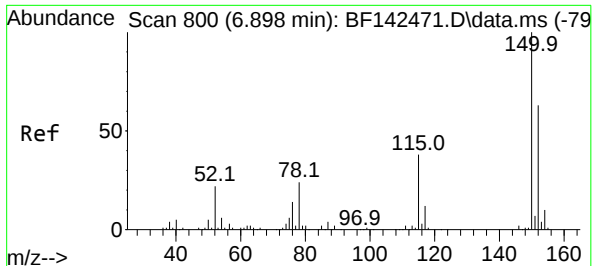
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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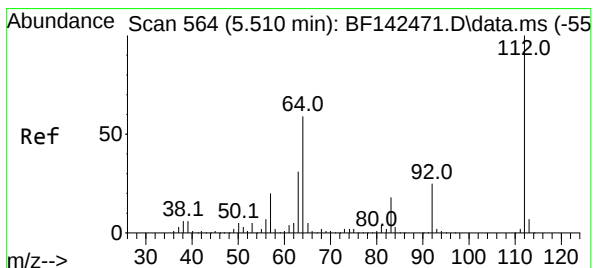
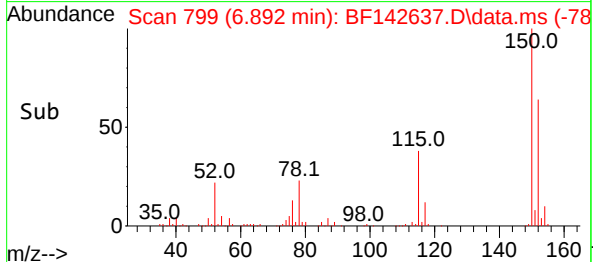
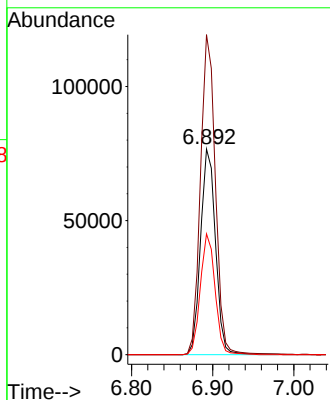
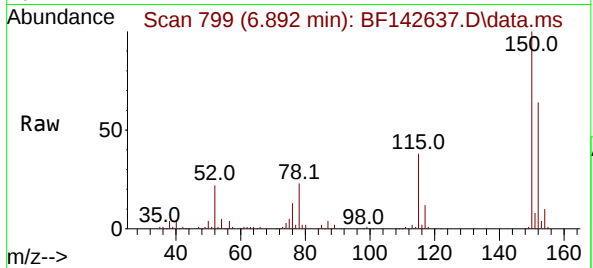




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.892 min Scan# 79
Delta R.T. -0.012 min
Lab File: BF142637.D
Acq: 05 Jun 2025 16:38

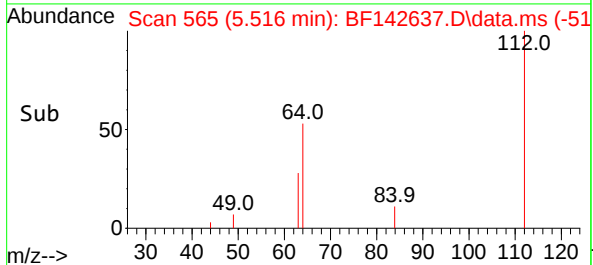
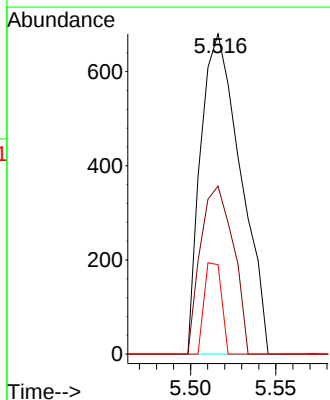
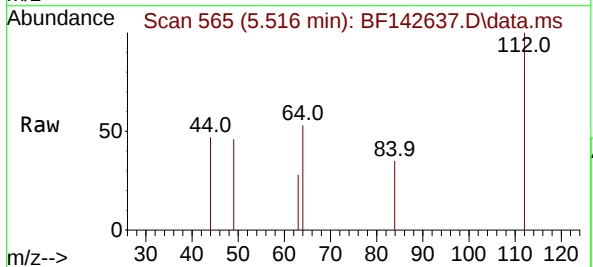
Instrument :
BNA_F
ClientSampleId :

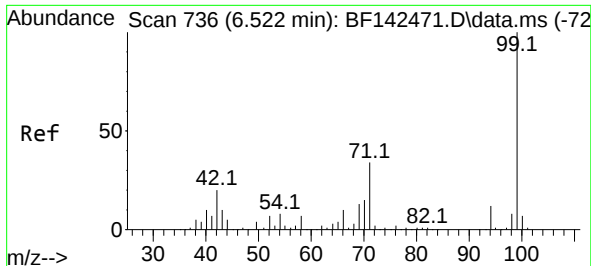
Tgt Ion:152 Resp: 98238
Ion Ratio Lower Upper
152 100
150 155.6 128.2 192.4
115 58.7 48.3 72.5



#5
2-Fluorophenol
Concen: 0.190 ng
RT: 5.516 min Scan# 565
Delta R.T. 0.000 min
Lab File: BF142637.D
Acq: 05 Jun 2025 16:38

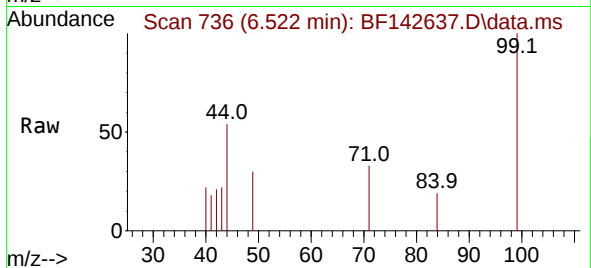
Tgt Ion:112 Resp: 1109
Ion Ratio Lower Upper
112 100
64 52.5 47.5 71.3
63 27.9 24.9 37.3



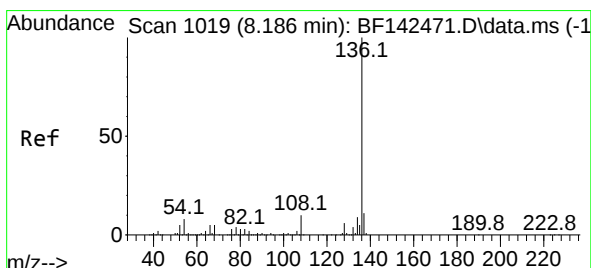
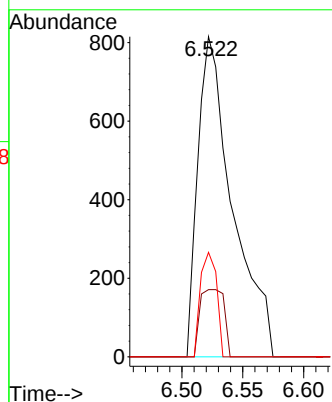
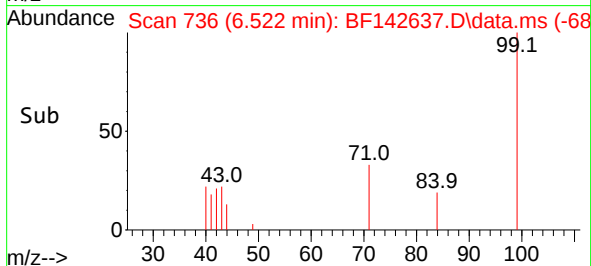


#7
Phenol-d6
Concen: 0.231 ng
RT: 6.522 min Scan# 71
Delta R.T. -0.012 min
Lab File: BF142637.D
Acq: 05 Jun 2025 16:38

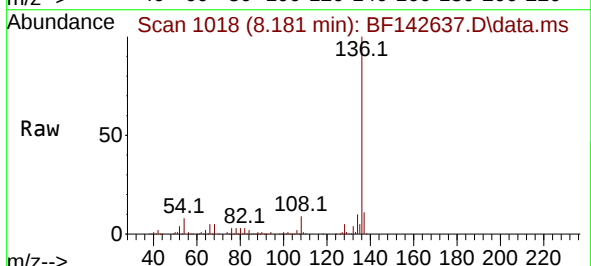
Instrument :
BNA_F
ClientSampleId :



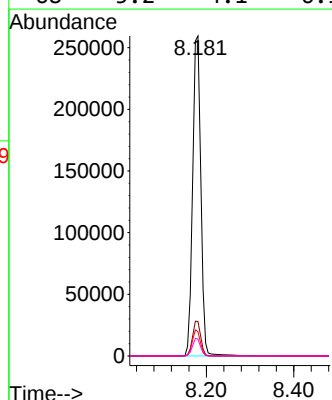
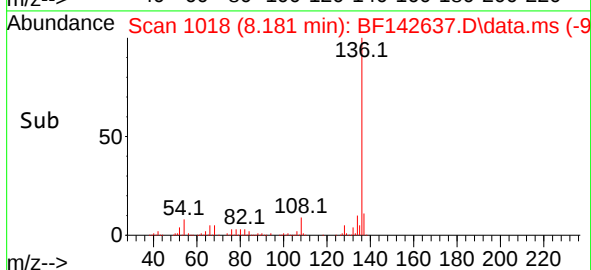
Tgt Ion: 99	Resp: 1620
Ion Ratio	Lower Upper
99 100	
42 21.0	16.2 24.2
71 32.6	27.3 40.9

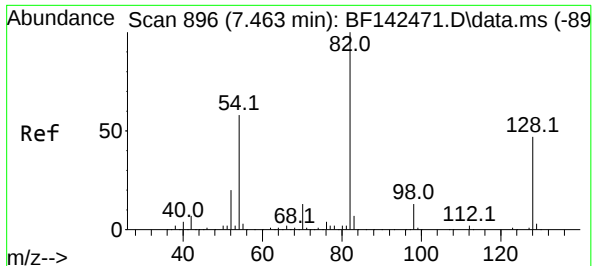


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.181 min Scan# 1018
Delta R.T. -0.006 min
Lab File: BF142637.D
Acq: 05 Jun 2025 16:38



Tgt	Ion:136	Resp:	339258
Ion	Ratio	Lower	Upper
136	100		
137	10.8	8.6	13.0
54	7.6	6.6	10.0
68	5.2	4.1	6.1





#23

Nitrobenzene-d5

Concen: 0.129 ng

RT: 7.457 min Scan# 896

Delta R.T. -0.018 min

Lab File: BF142637.D

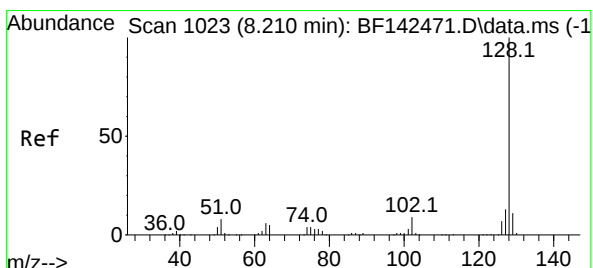
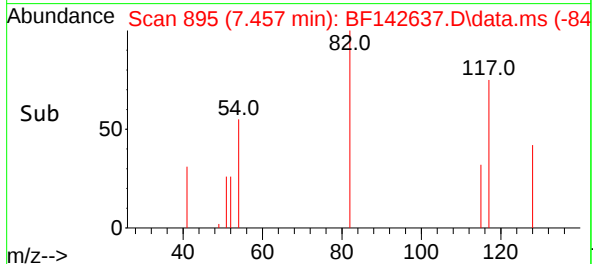
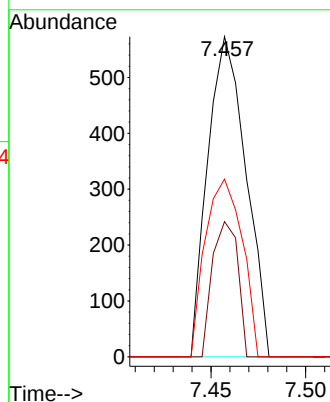
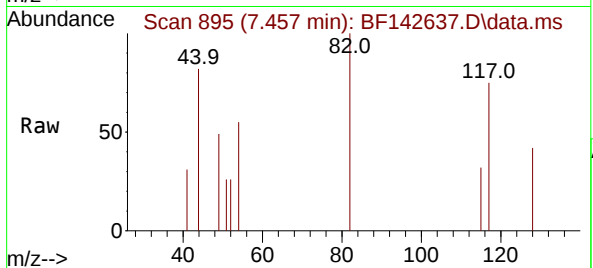
Acq: 05 Jun 2025 16:38

Instrument :

BNA_F

ClientSampleId :

Tgt Ion: 82	Resp: 803
Ion Ratio	Lower Upper
82 100	
128 42.2	37.4 56.2
54 55.5	46.6 70.0



#31

Naphthalene

Concen: 16.905 ng

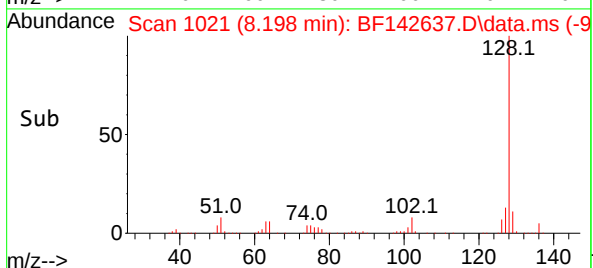
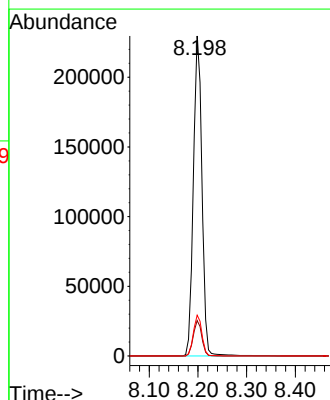
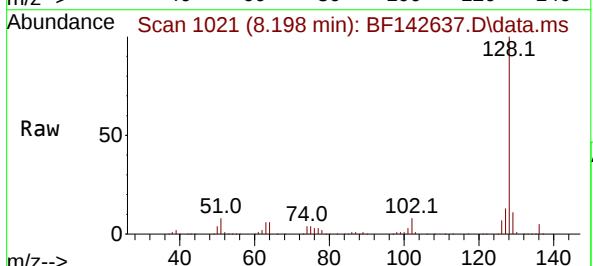
RT: 8.198 min Scan# 1021

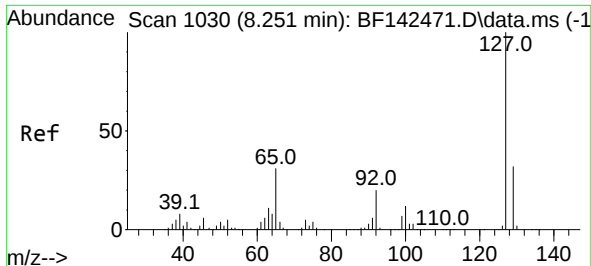
Delta R.T. -0.012 min

Lab File: BF142637.D

Acq: 05 Jun 2025 16:38

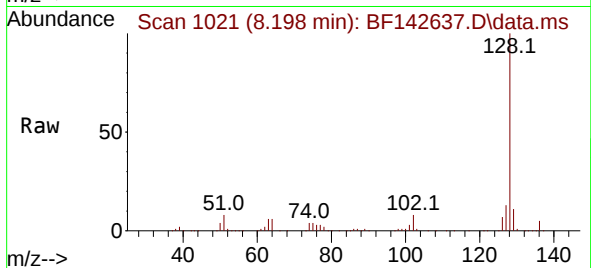
Tgt Ion:128	Resp: 282392
Ion Ratio	Lower Upper
128 100	
129 11.1	8.9 13.3
127 12.8	10.5 15.7



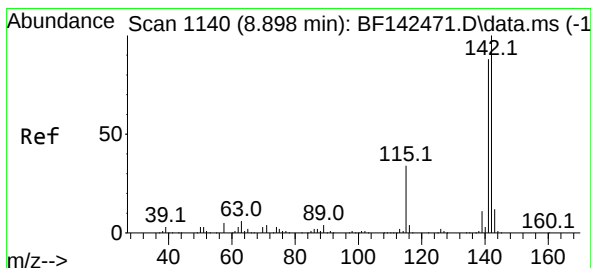
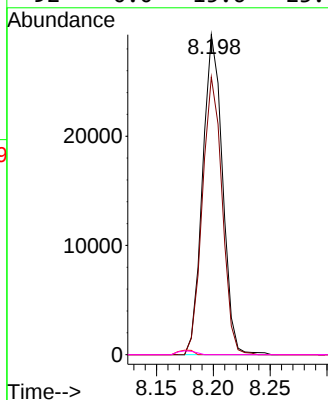
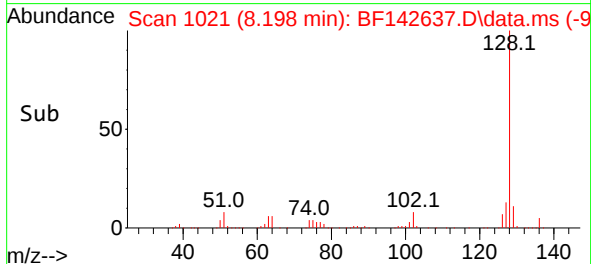


#33
4-Chloroaniline
Concen: 5.283 ng
RT: 8.198 min Scan# 1109
Delta R.T. -0.059 min
Lab File: BF142637.D
Acq: 05 Jun 2025 16:38

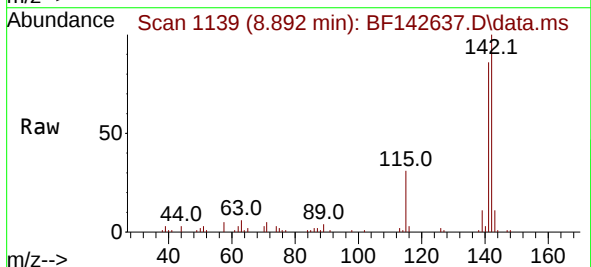
Instrument :
BNA_F
ClientSampleId :



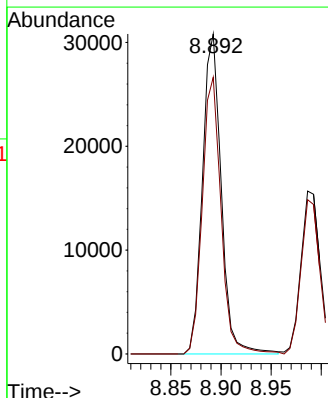
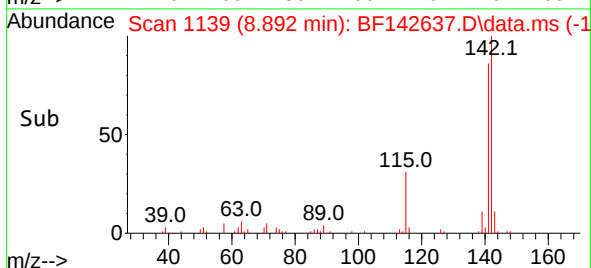
Tgt Ion:127	Resp:	35757
Ion	Ratio	Lower Upper
127	100	
129	86.8	26.1 39.1#
65	0.0	24.9 37.3#
92	0.0	15.6 23.4#

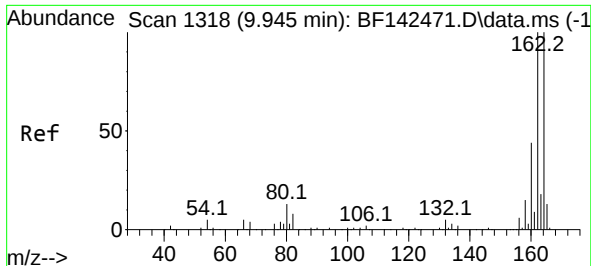


#37
2-Methylnaphthalene
Concen: 3.825 ng
RT: 8.892 min Scan# 1139
Delta R.T. -0.006 min
Lab File: BF142637.D
Acq: 05 Jun 2025 16:38



Tgt Ion:142	Resp:	40194
Ion	Ratio	Lower Upper
142	100	
141	86.5	70.7 106.1





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.933 min Scan# 11

Delta R.T. -0.012 min

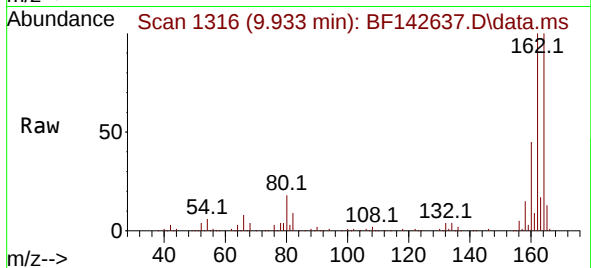
Lab File: BF142637.D

Acq: 05 Jun 2025 16:38

Instrument :

BNA_F

ClientSampleId :



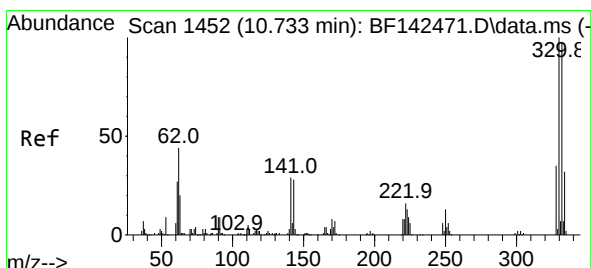
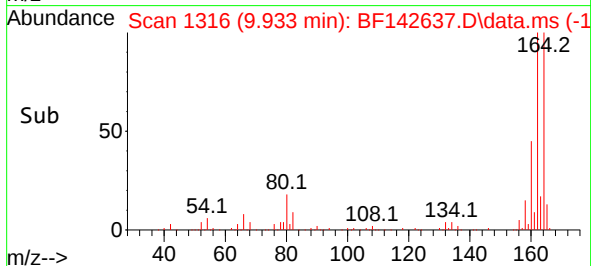
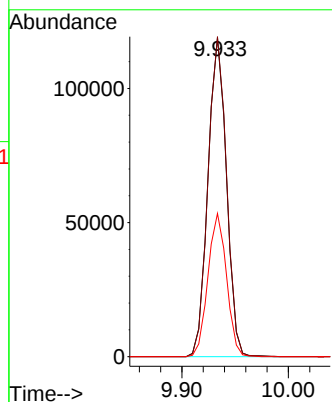
Tgt Ion:164 Resp: 143942

Ion Ratio Lower Upper

164 100

162 100.3 80.2 120.4

160 44.9 35.6 53.4



#42

2,4,6-Tribromophenol

Concen: 0.094 ng

RT: 10.722 min Scan# 1450

Delta R.T. -0.018 min

Lab File: BF142637.D

Acq: 05 Jun 2025 16:38

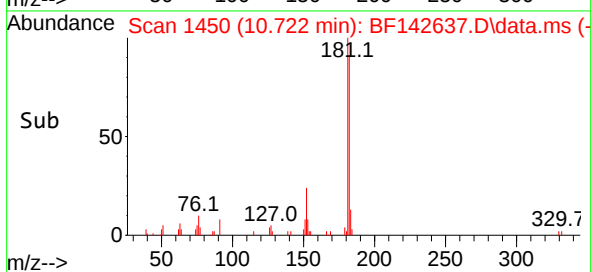
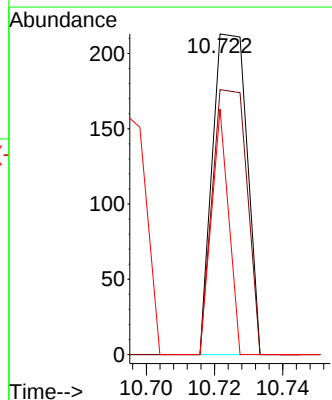
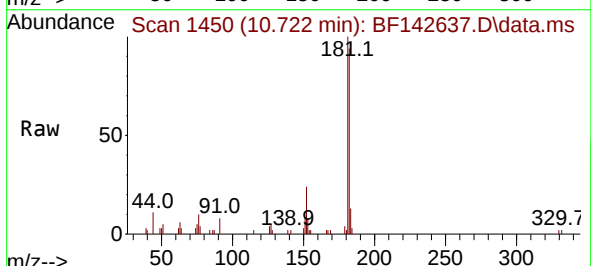
Tgt Ion:330 Resp: 150

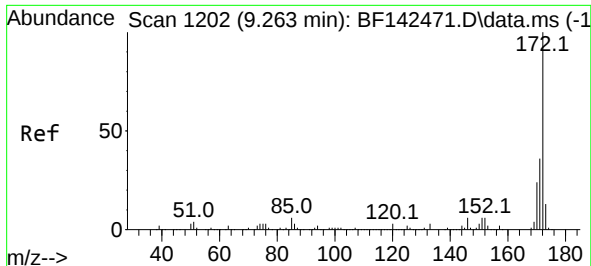
Ion Ratio Lower Upper

330 100

332 82.0 77.6 116.4

141 38.0 24.6 36.8#





#45

2-Fluorobiphenyl

Concen: 0.252 ng

RT: 9.251 min Scan# 11

Delta R.T. -0.018 min

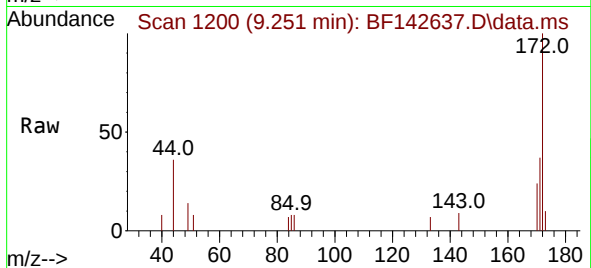
Lab File: BF142637.D

Acq: 05 Jun 2025 16:38

Instrument :

BNA_F

ClientSampleId :



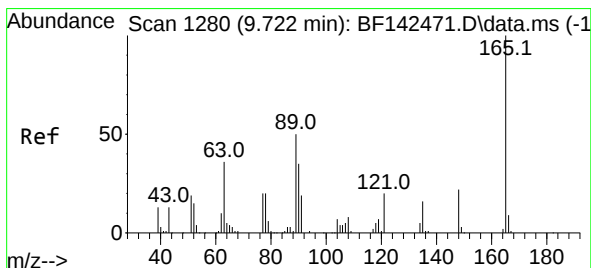
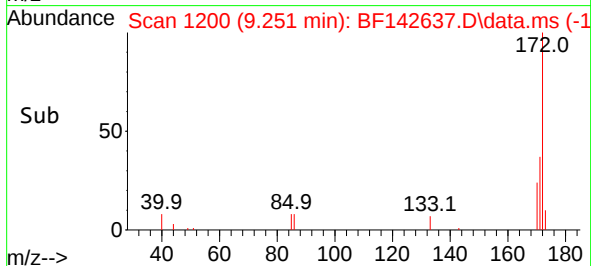
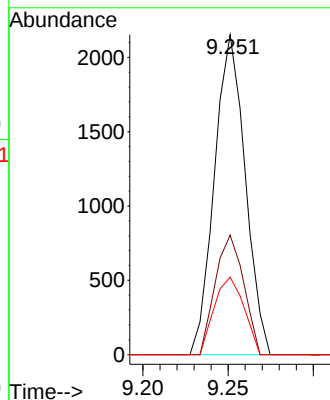
Tgt Ion:172 Resp: 2699

Ion Ratio Lower Upper

172 100

171 37.3 28.6 42.8

170 24.2 18.9 28.3



#51

2,6-Dinitrotoluene

Concen: 9.659 ng

RT: 9.933 min Scan# 1316

Delta R.T. 0.206 min

Lab File: BF142637.D

Acq: 05 Jun 2025 16:38

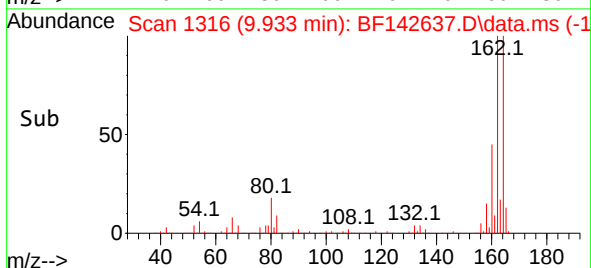
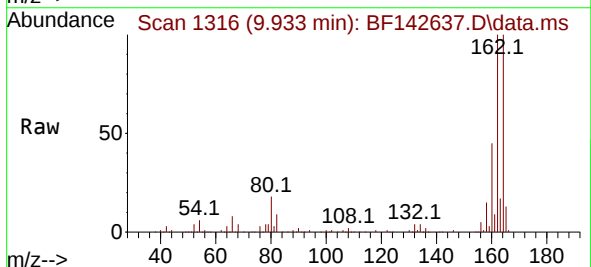
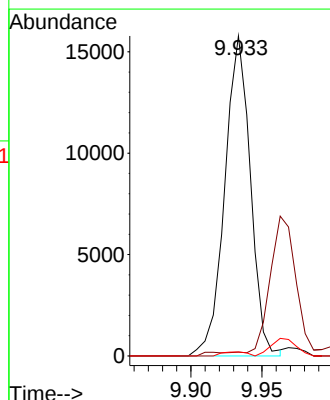
Tgt Ion:165 Resp: 19800

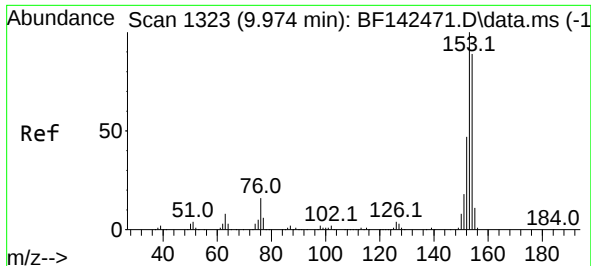
Ion Ratio Lower Upper

165 100

63 1.2 42.9 64.3#

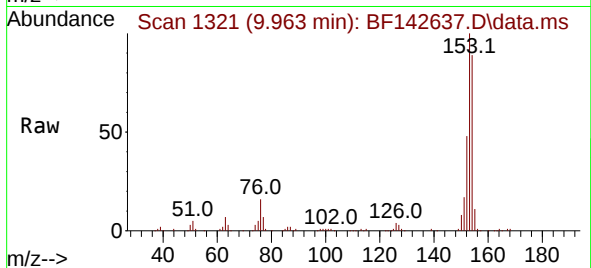
89 1.3 40.2 60.4#



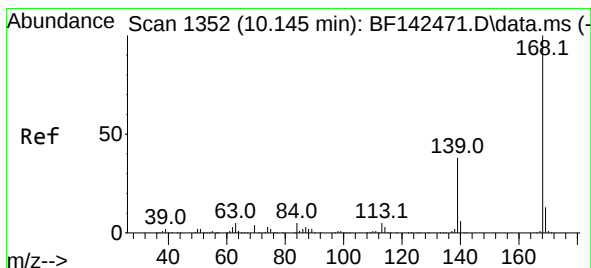
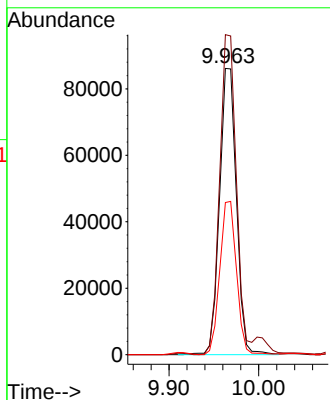
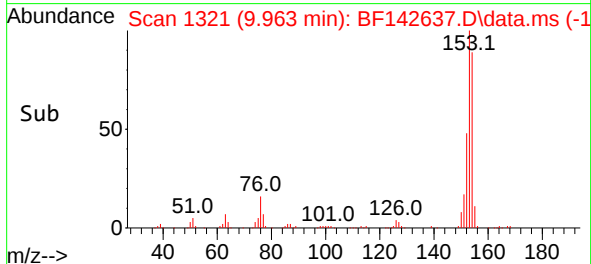


#52
Acenaphthene
Concen: 13.194 ng
RT: 9.963 min Scan# 11
Delta R.T. -0.017 min
Lab File: BF142637.D
Acq: 05 Jun 2025 16:38

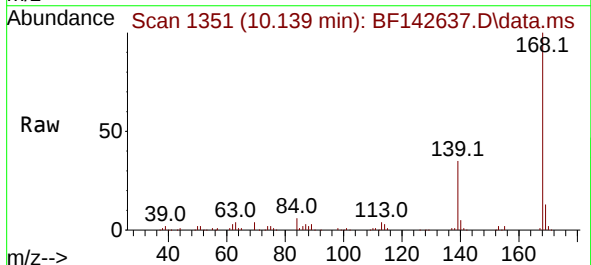
Instrument :
BNA_F
ClientSampleId :



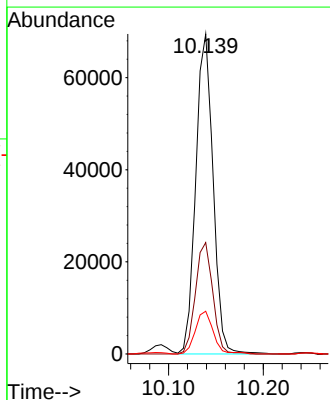
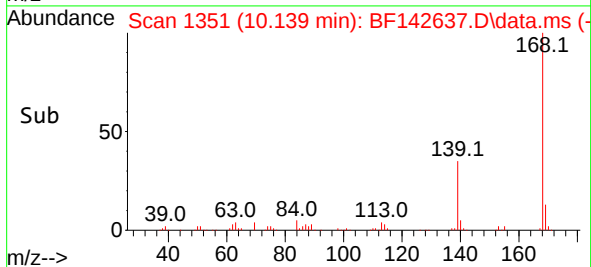
Tgt Ion:154 Resp: 112241
Ion Ratio Lower Upper
154 100
153 111.8 90.0 135.0
152 53.2 42.6 64.0

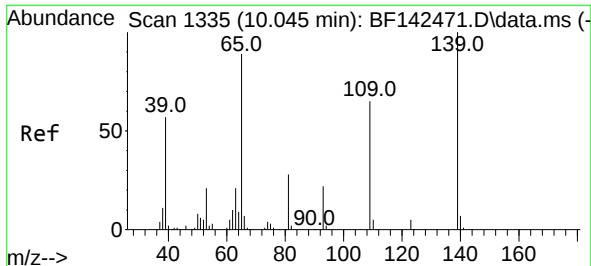


#55
Dibenzofuran
Concen: 7.204 ng
RT: 10.139 min Scan# 1351
Delta R.T. -0.012 min
Lab File: BF142637.D
Acq: 05 Jun 2025 16:38



Tgt Ion:168 Resp: 88190
Ion Ratio Lower Upper
168 100
139 34.8 30.2 45.2
169 13.4 10.7 16.1

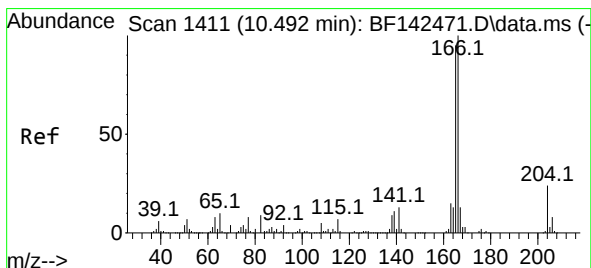
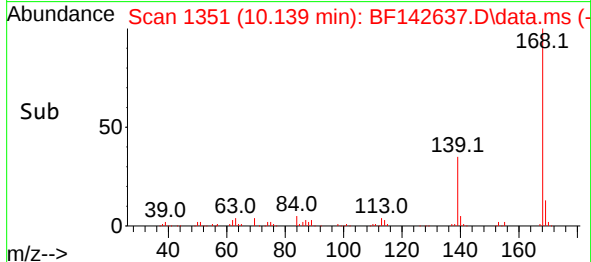
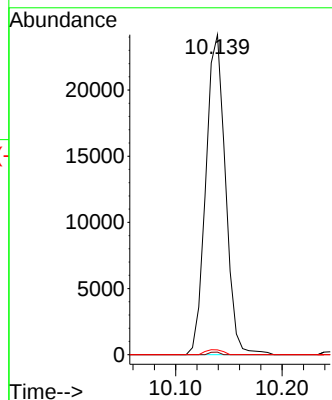
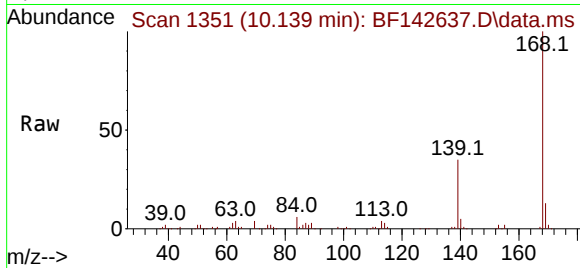




#56
4-Nitrophenol
Concen: 18.720 ng
RT: 10.139 min Scan# 11
Delta R.T. 0.088 min
Lab File: BF142637.D
Acq: 05 Jun 2025 16:38

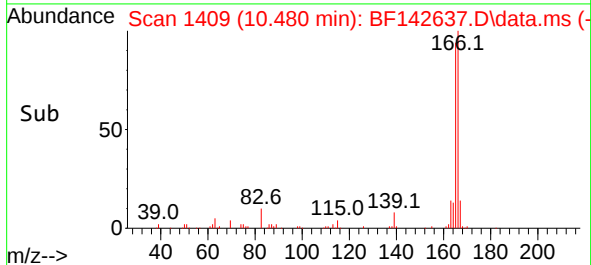
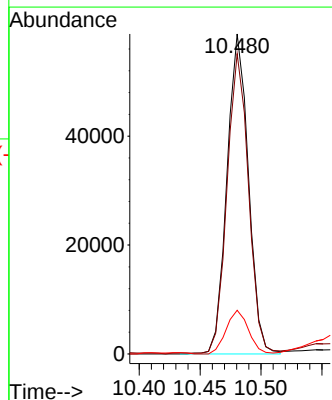
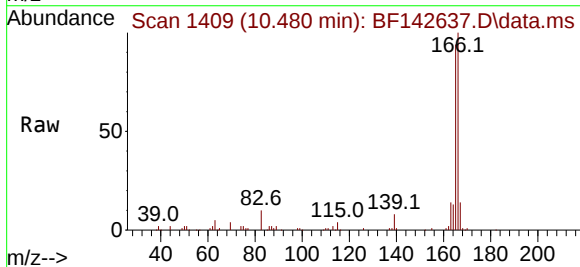
Instrument :
BNA_F
ClientSampleId :

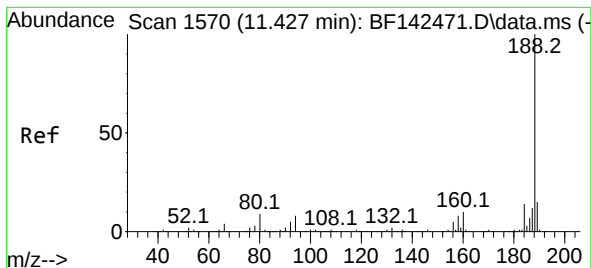
Tgt Ion:139 Resp: 30927
Ion Ratio Lower Upper
139 100
109 0.8 45.1 85.1#
65 1.5 69.7 109.7#



#58
Fluorene
Concen: 7.626 ng
RT: 10.480 min Scan# 1409
Delta R.T. -0.018 min
Lab File: BF142637.D
Acq: 05 Jun 2025 16:38

Tgt Ion:166 Resp: 72128
Ion Ratio Lower Upper
166 100
165 93.8 75.8 113.8
167 13.7 10.6 16.0





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.422 min Scan# 1569

Delta R.T. -0.012 min

Lab File: BF142637.D

Acq: 05 Jun 2025 16:38

Instrument :

BNA_F

ClientSampleId :

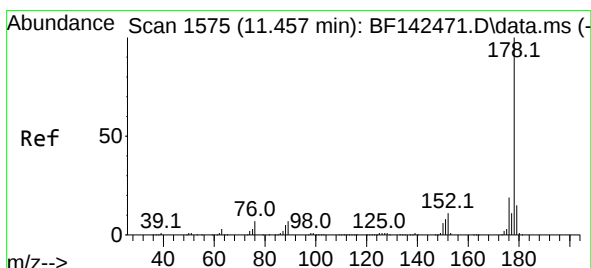
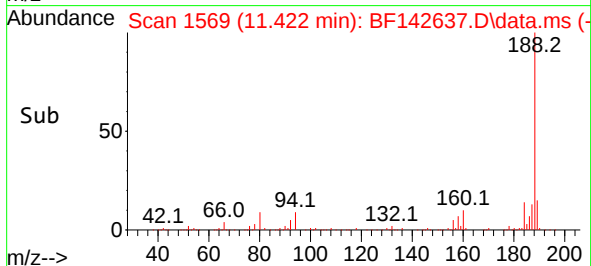
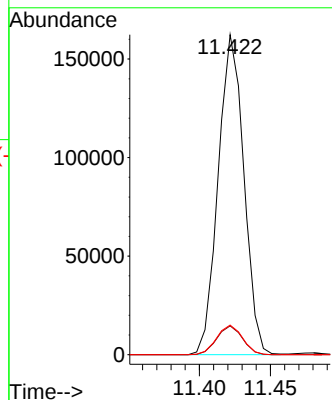
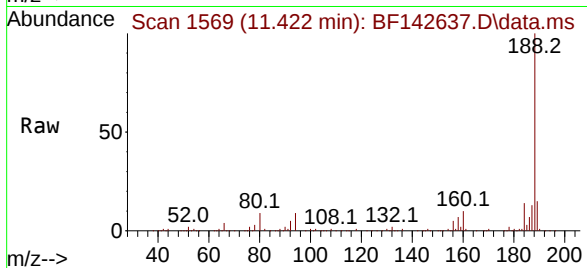
Tgt Ion:188 Resp: 204032

Ion Ratio Lower Upper

188 100

94 9.0 6.6 10.0

80 9.3 7.4 11.0



#71

Phenanthrene

Concen: 66.218 ng

RT: 11.445 min Scan# 1573

Delta R.T. -0.012 min

Lab File: BF142637.D

Acq: 05 Jun 2025 16:38

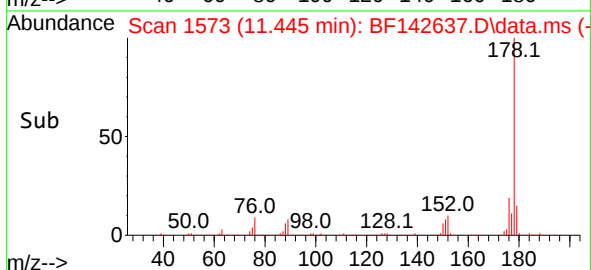
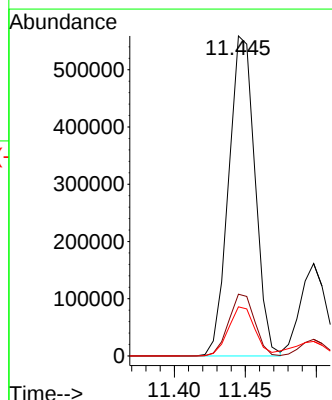
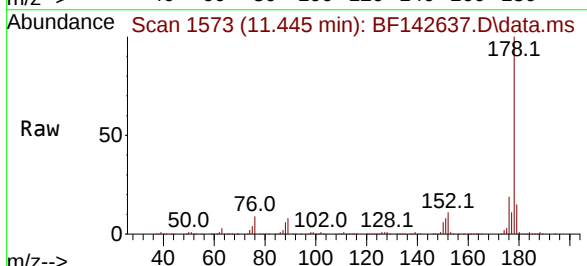
Tgt Ion:178 Resp: 722027

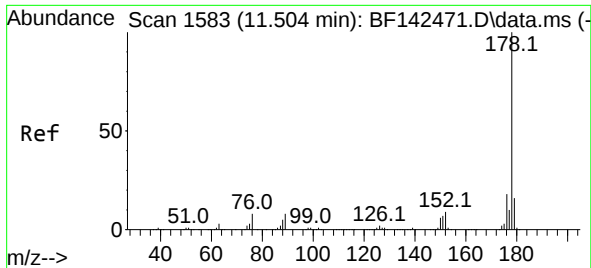
Ion Ratio Lower Upper

178 100

176 19.3 15.4 23.0

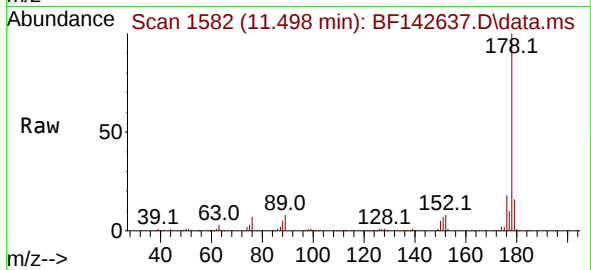
179 15.3 12.3 18.5



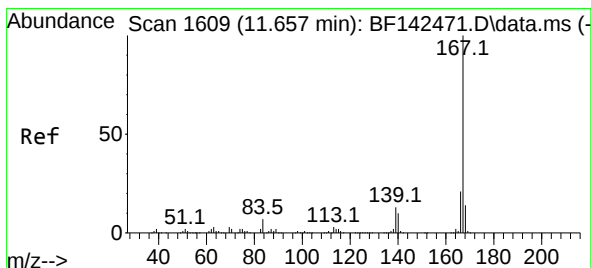
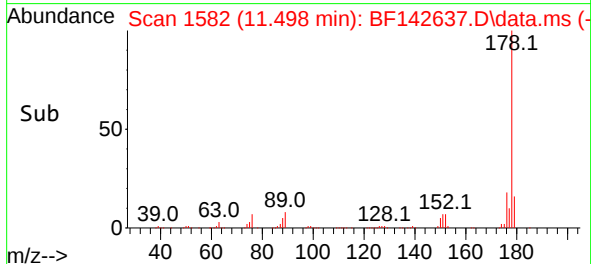
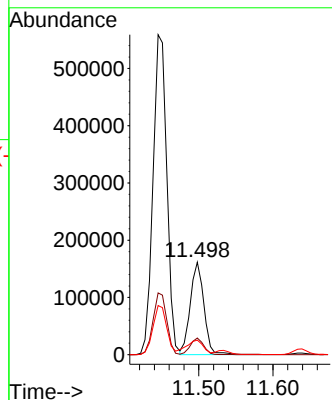


#72
 Anthracene
 Concen: 18.505 ng
 RT: 11.498 min Scan# 11
 Delta R.T. -0.012 min
 Lab File: BF142637.D
 Acq: 05 Jun 2025 16:38

Instrument :
 BNA_F
 ClientSampleId :

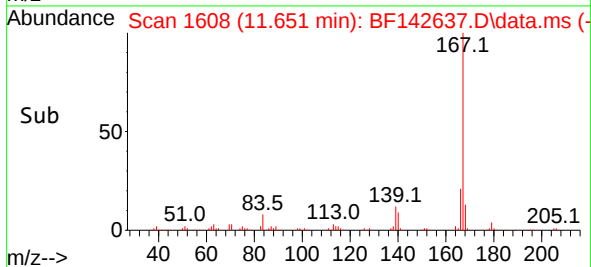
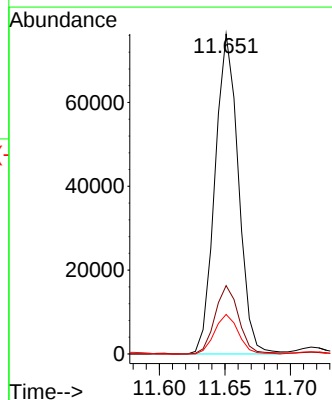
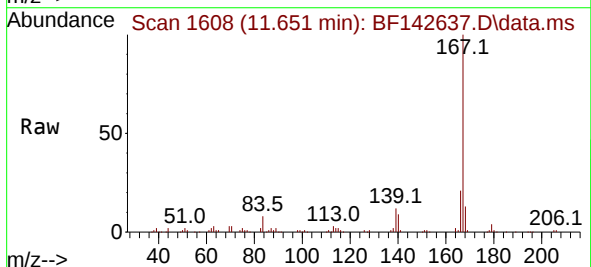


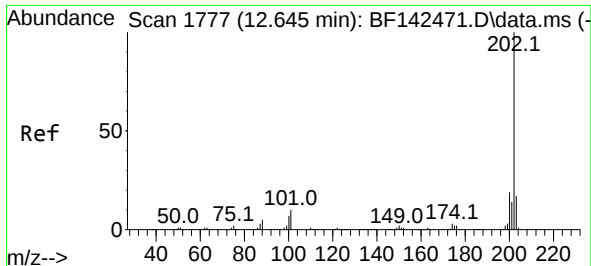
Tgt Ion:178 Resp: 205926
 Ion Ratio Lower Upper
 178 100
 176 18.0 14.6 21.8
 179 15.8 12.4 18.6



#73
 Carbazole
 Concen: 9.953 ng
 RT: 11.651 min Scan# 1608
 Delta R.T. -0.012 min
 Lab File: BF142637.D
 Acq: 05 Jun 2025 16:38

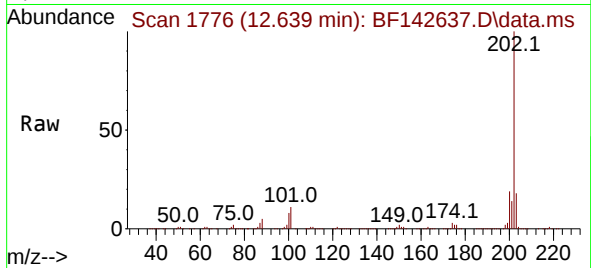
Tgt Ion:167 Resp: 94691
 Ion Ratio Lower Upper
 167 100
 166 21.4 16.9 25.3
 139 12.4 10.2 15.4



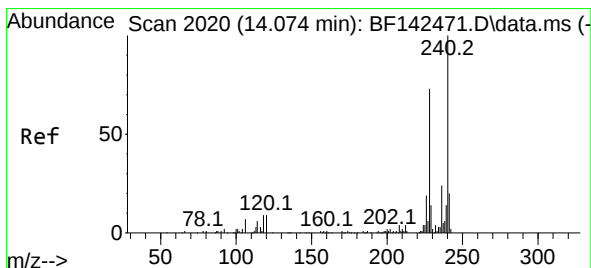
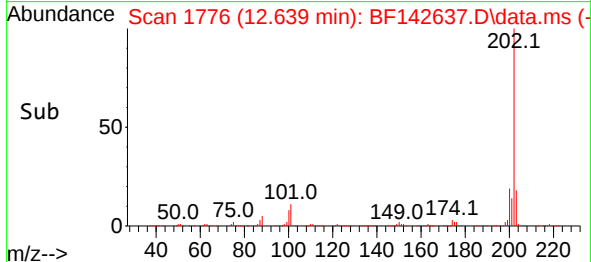
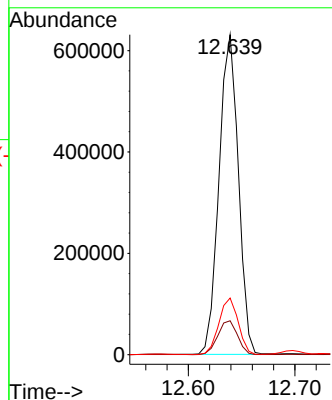


#75
Fluoranthene
Concen: 78.010 ng
RT: 12.639 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142637.D
Acq: 05 Jun 2025 16:38

Instrument :
BNA_F
ClientSampleId :

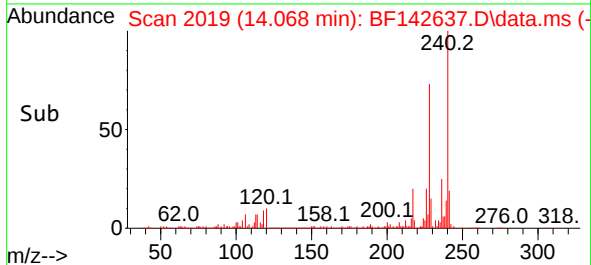
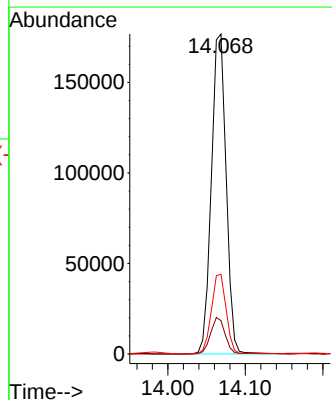
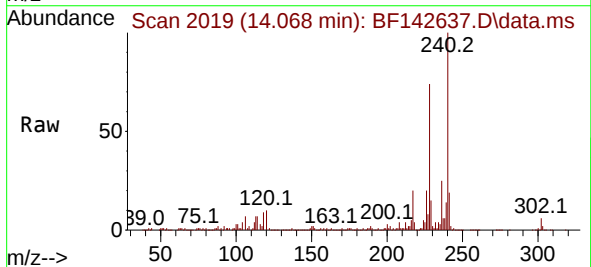


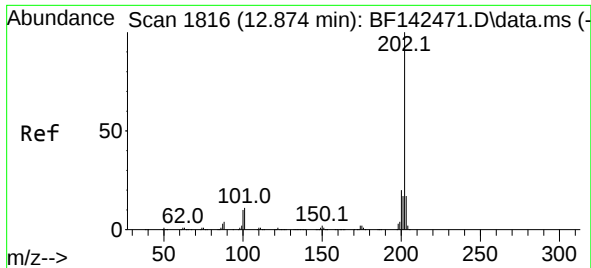
Tgt Ion:202 Resp: 794806
Ion Ratio Lower Upper
202 100
101 10.6 0.0 29.6
203 17.7 0.0 37.2



#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.068 min Scan# 2019
Delta R.T. -0.006 min
Lab File: BF142637.D
Acq: 05 Jun 2025 16:38

Tgt Ion:240 Resp: 234491
Ion Ratio Lower Upper
240 100
120 10.4 7.5 11.3
236 24.9 19.6 29.4

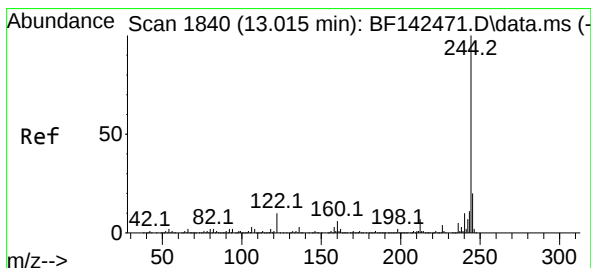
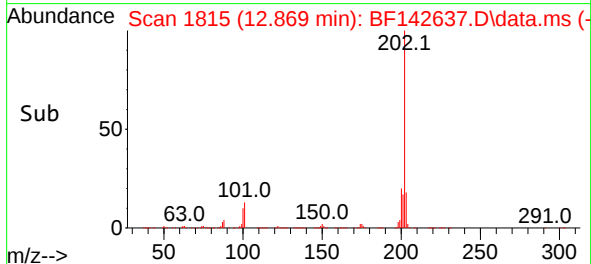
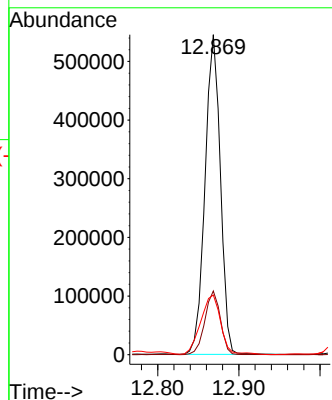
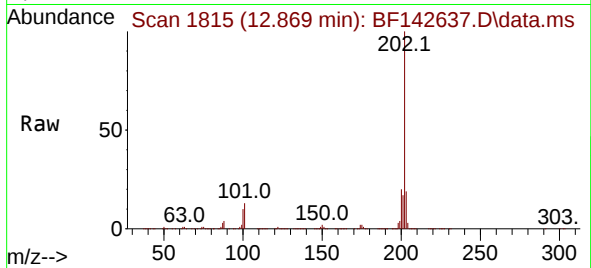




#78
Pyrene
Concen: 32.670 ng
RT: 12.869 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF142637.D
Acq: 05 Jun 2025 16:38

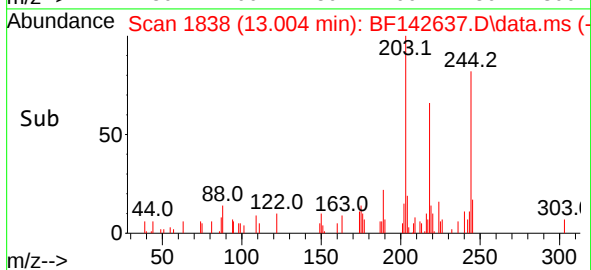
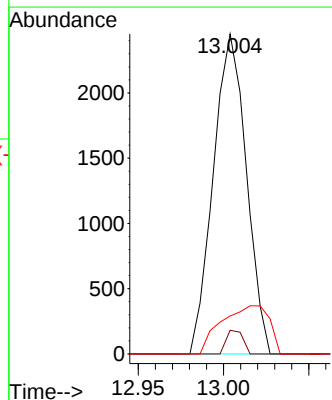
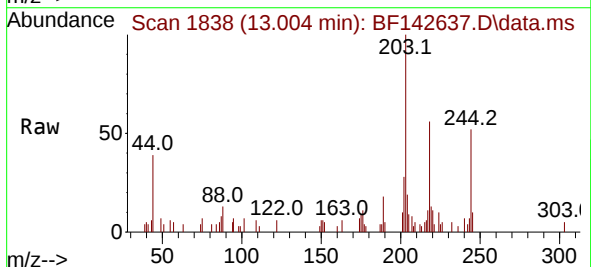
Instrument :
BNA_F
ClientSampleId :

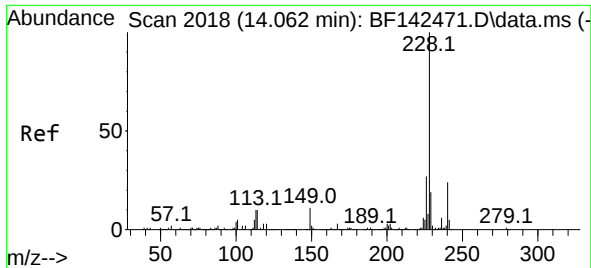
Tgt Ion:202 Resp: 714645
Ion Ratio Lower Upper
202 100
200 19.9 16.1 24.1
203 18.7 13.9 20.9



#79
Terphenyl-d14
Concen: 0.193 ng
RT: 13.004 min Scan# 1838
Delta R.T. -0.012 min
Lab File: BF142637.D
Acq: 05 Jun 2025 16:38

Tgt Ion:244 Resp: 3304
Ion Ratio Lower Upper
244 100
212 7.4 5.3 7.9
122 11.8 8.2 12.2

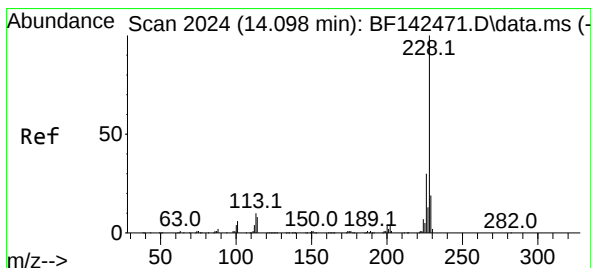
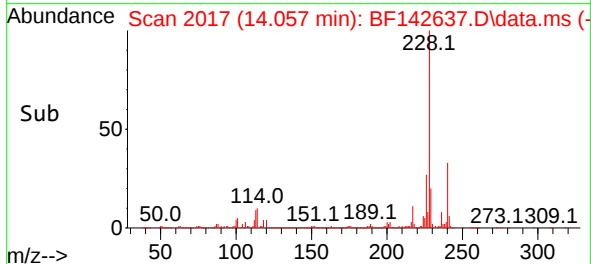
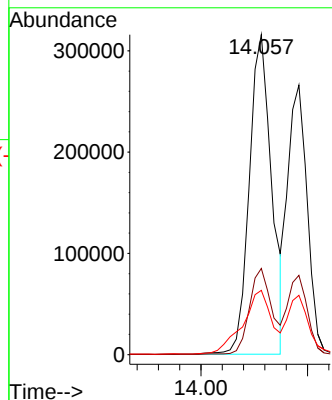
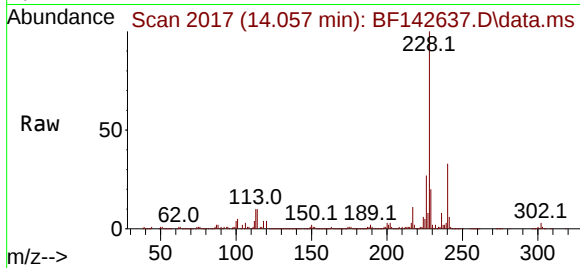




#81
Benzo(a)anthracene
Concen: 29.462 ng
RT: 14.057 min Scan# 2018
Delta R.T. -0.006 min
Lab File: BF142637.D
Acq: 05 Jun 2025 16:38

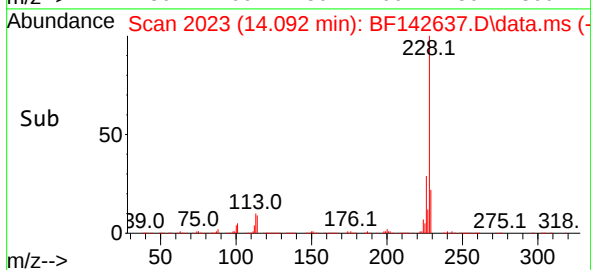
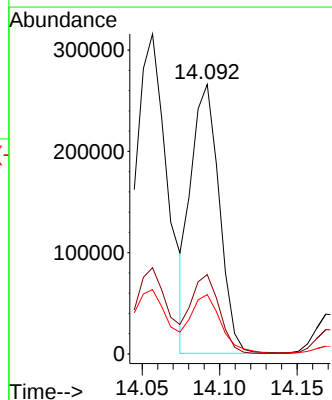
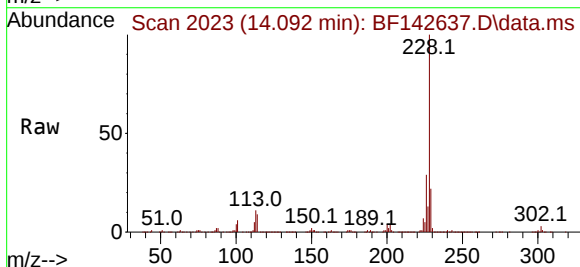
Instrument :
BNA_F
ClientSampleId :

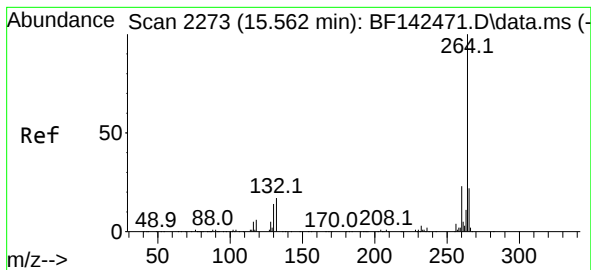
Tgt Ion:228 Resp: 461324
Ion Ratio Lower Upper
228 100
226 26.9 21.2 31.8
229 20.1 15.5 23.3



#83
Chrysene
Concen: 23.958 ng
RT: 14.092 min Scan# 2023
Delta R.T. -0.012 min
Lab File: BF142637.D
Acq: 05 Jun 2025 16:38

Tgt Ion:228 Resp: 337082
Ion Ratio Lower Upper
228 100
226 29.4 23.8 35.6
229 22.0 15.4 23.2





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.557 min Scan# 21

Delta R.T. -0.012 min

Lab File: BF142637.D

Acq: 05 Jun 2025 16:38

Instrument :

BNA_F

ClientSampleId :

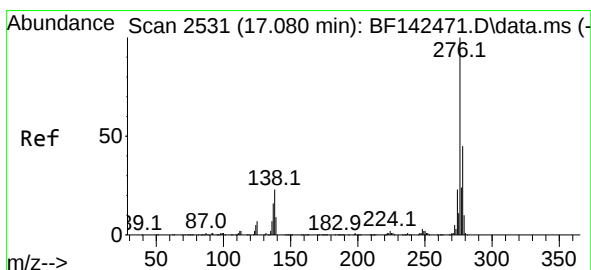
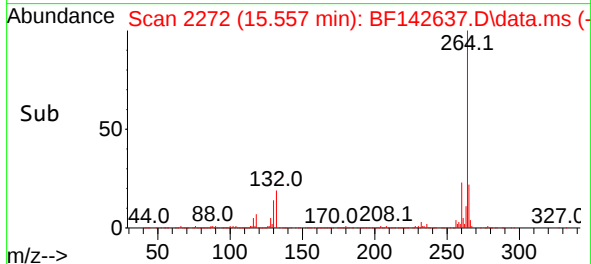
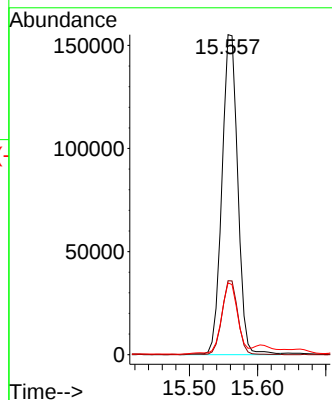
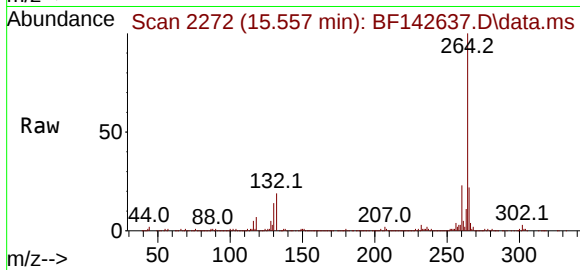
Tgt Ion:264 Resp: 251194

Ion Ratio Lower Upper

264 100

260 23.1 18.6 28.0

265 22.5 17.7 26.5



#87

Indeno(1,2,3-cd)pyrene

Concen: 7.219 ng

RT: 17.062 min Scan# 2528

Delta R.T. -0.029 min

Lab File: BF142637.D

Acq: 05 Jun 2025 16:38

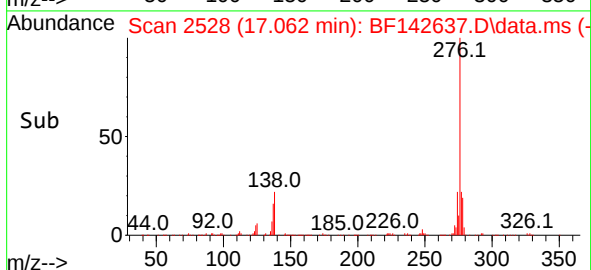
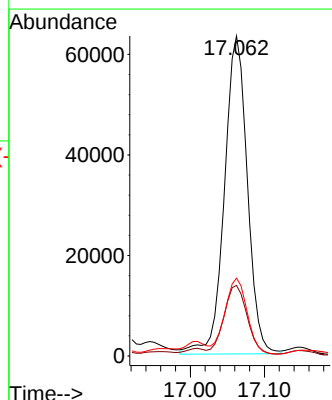
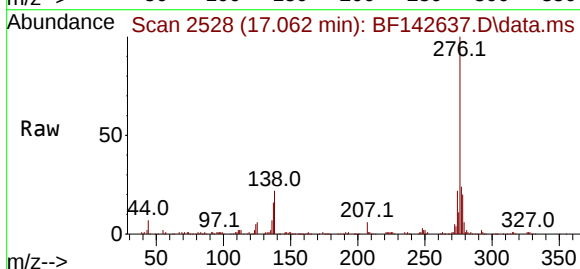
Tgt Ion:276 Resp: 136129

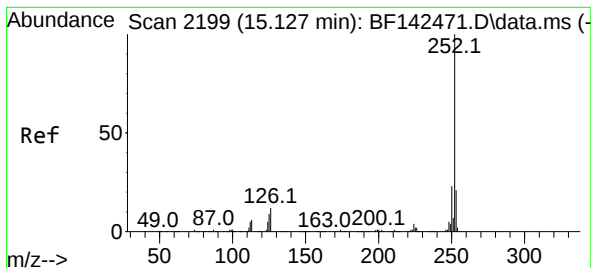
Ion Ratio Lower Upper

276 100

138 22.1 19.9 29.9

277 23.0 20.2 30.2





#88

Benzo(b)fluoranthene

Concen: 41.668 ng

RT: 15.121 min Scan# 2199

Delta R.T. -0.006 min

Lab File: BF142637.D

Acq: 05 Jun 2025 16:38

Instrument :

BNA_F

ClientSampleId :

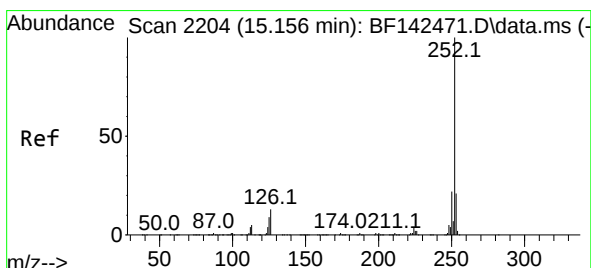
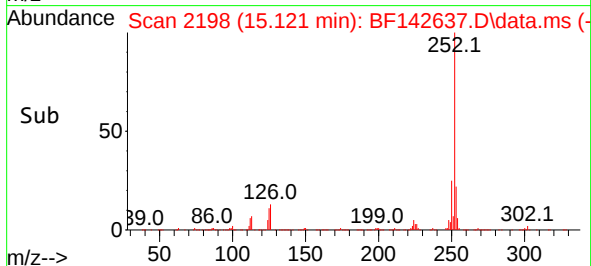
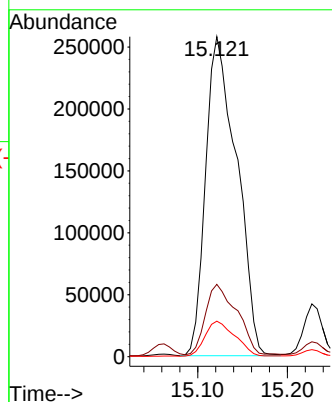
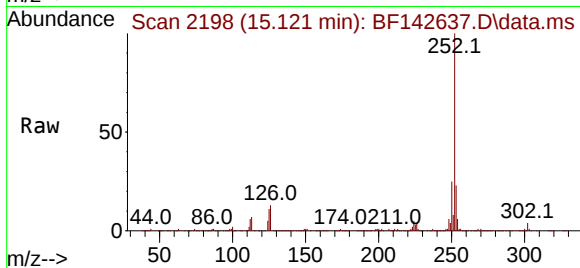
Tgt Ion:252 Resp: 619465

Ion Ratio Lower Upper

252 100

253 22.6 17.0 25.4

125 11.1 7.4 11.0#



#89

Benzo(k)fluoranthene

Concen: 44.488 ng

RT: 15.121 min Scan# 2198

Delta R.T. -0.041 min

Lab File: BF142637.D

Acq: 05 Jun 2025 16:38

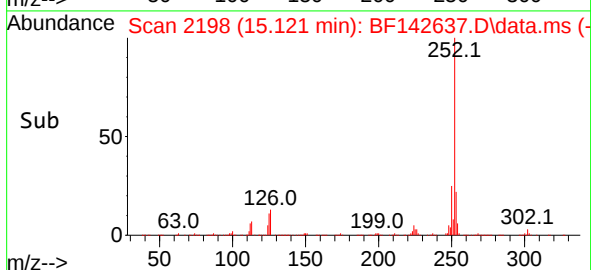
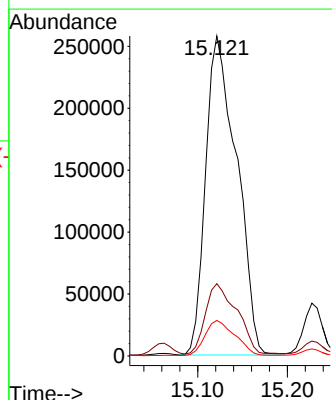
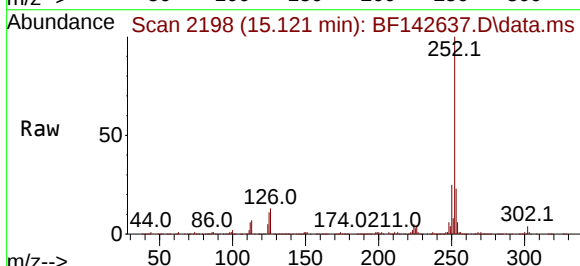
Tgt Ion:252 Resp: 619465

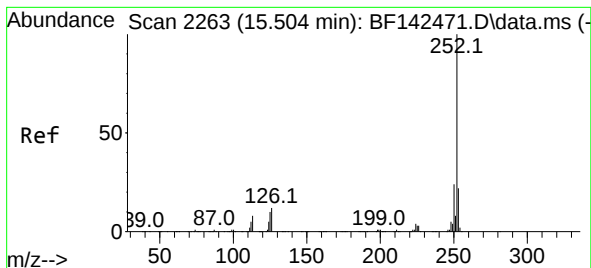
Ion Ratio Lower Upper

252 100

253 22.6 17.0 25.4

125 11.1 7.3 10.9#





#90

Benzo(a)pyrene

Concen: 22.950 ng

RT: 15.492 min Scan# 21

Delta R.T. -0.018 min

Lab File: BF142637.D

Acq: 05 Jun 2025 16:38

Instrument :

BNA_F

ClientSampleId :

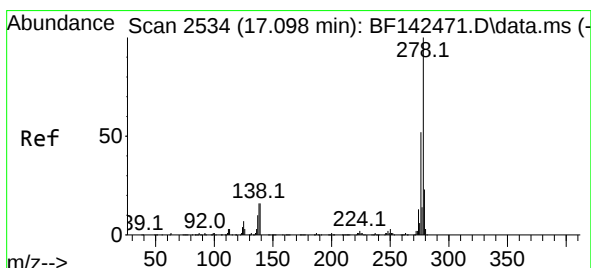
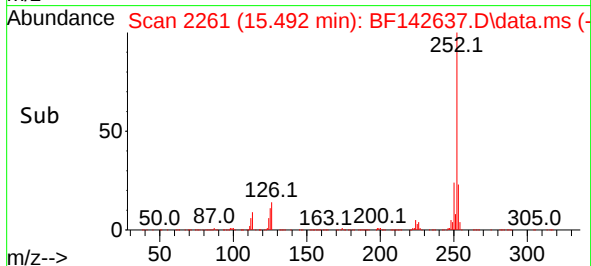
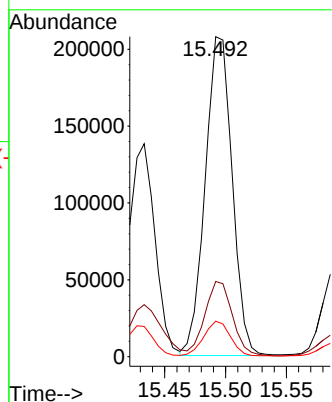
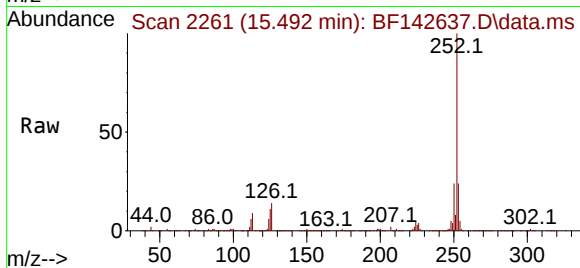
Tgt Ion:252 Resp: 321613

Ion Ratio Lower Upper

252 100

253 23.5 17.4 26.0

125 11.1 7.9 11.9



#91

Dibenzo(a,h)anthracene

Concen: 2.323 ng

RT: 17.074 min Scan# 2530

Delta R.T. -0.041 min

Lab File: BF142637.D

Acq: 05 Jun 2025 16:38

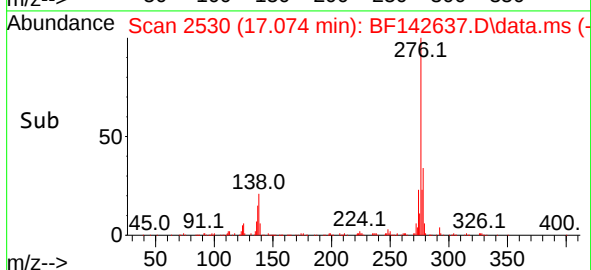
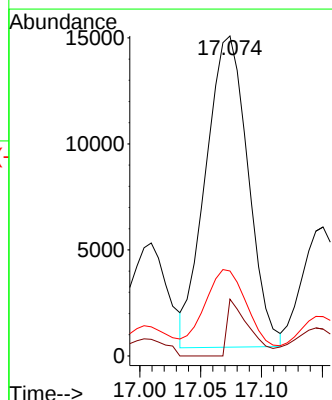
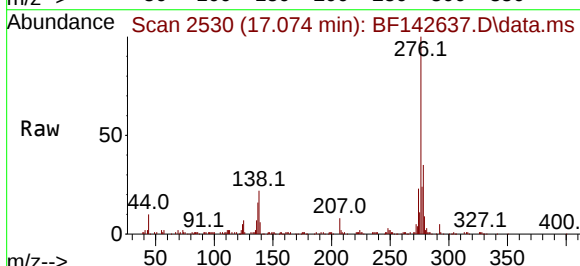
Tgt Ion:278 Resp: 35531

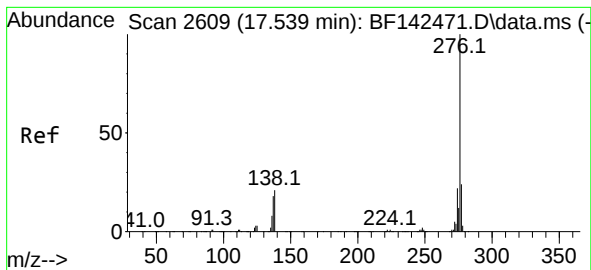
Ion Ratio Lower Upper

278 100

139 17.7 12.8 19.2

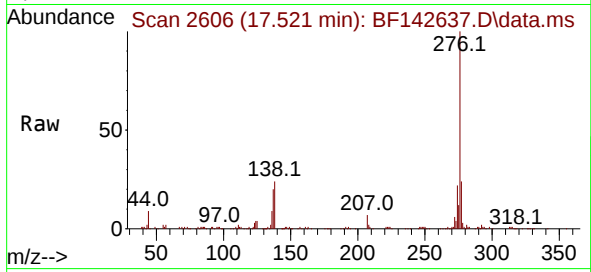
279 26.6 18.6 28.0





#92
 Benzo(g,h,i)perylene
 Concen: 7.572 ng
 RT: 17.521 min Scan# 20
 Delta R.T. -0.035 min
 Lab File: BF142637.D
 Acq: 05 Jun 2025 16:38

Instrument :
 BNA_F
 ClientSampleId :



Tgt	Ion:276	Resp:	115835
Ion	Ratio	Lower	Upper
276	100		
277	24.3	19.2	28.8
138	23.5	16.8	25.2

