

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF070825\
 Data File : BF143043.D
 Acq On : 08 Jul 2025 20:12
 Operator : RC/JU
 Sample : Q2473-01DL 20X
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 PIT#1DL

Quant Time: Jul 09 01:41:52 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)

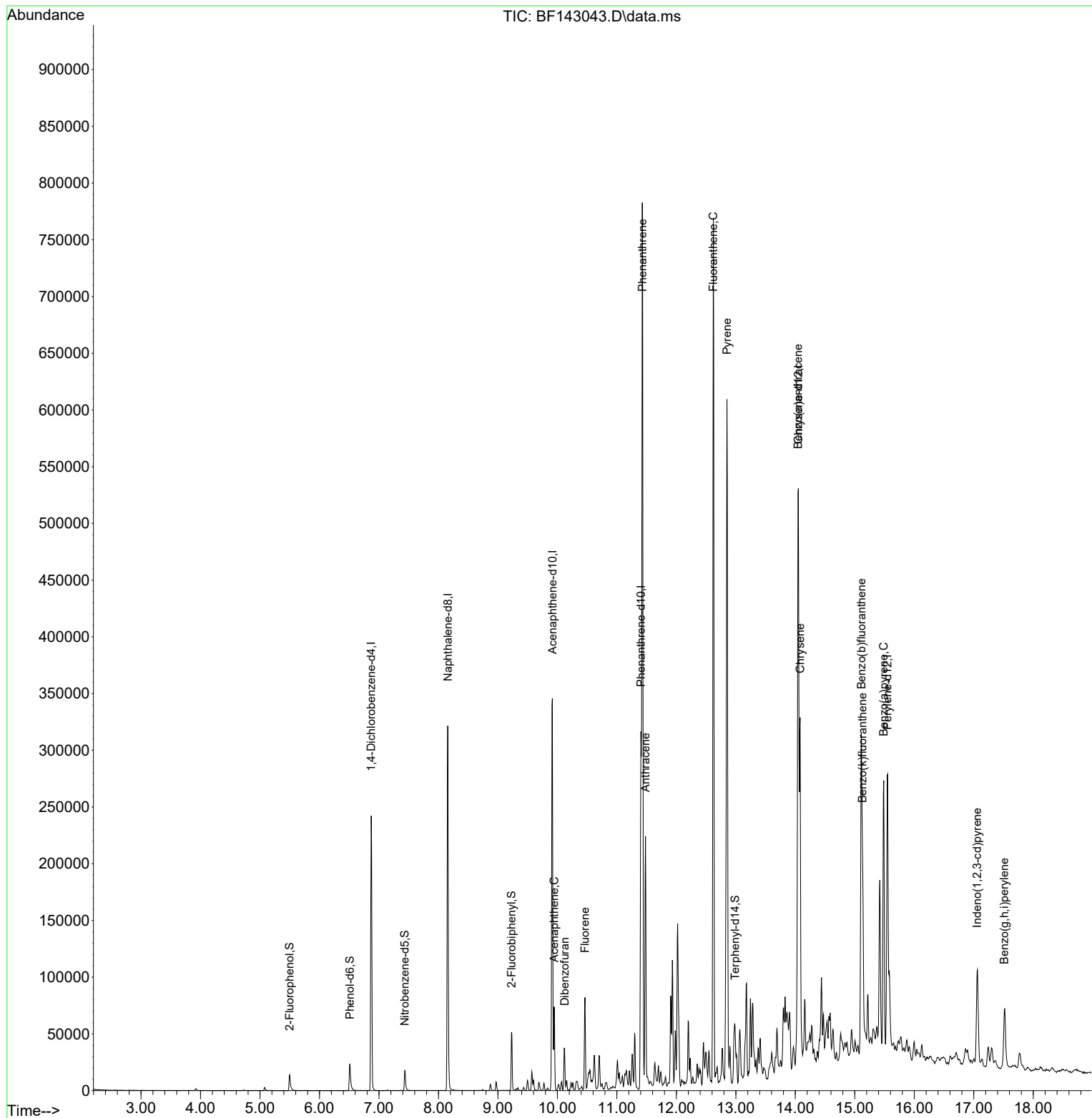
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.869	152	55588	20.000	ng	-0.01
21) Naphthalene-d8	8.157	136	211740	20.000	ng	-0.01
39) Acenaphthene-d10	9.916	164	106126	20.000	ng	0.00
64) Phenanthrene-d10	11.404	188	159588	20.000	ng	0.00
76) Chrysene-d12	14.051	240	121712	20.000	ng	0.00
86) Perylene-d12	15.551	264	143355	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.498	112	8621	2.582	ng	0.00
7) Phenol-d6	6.510	99	16202	4.113	ng	0.00
23) Nitrobenzene-d5	7.434	82	10454	2.708	ng	-0.01
42) 2,4,6-Tribromophenol	10.716	330	608	0.557	ng	0.00
45) 2-Fluorobiphenyl	9.228	172	25939	3.211	ng	-0.02
79) Terphenyl-d14	12.986	244	19995	2.270	ng	-0.01
Target Compounds						Qvalue
52) Acenaphthene	9.945	154	22809	3.610	ng	99
55) Dibenzofuran	10.122	168	19346	2.135	ng	97
58) Fluorene	10.463	166	33004	4.664	ng	98
71) Phenanthrene	11.427	178	423185	48.952	ng	99
72) Anthracene	11.480	178	125946	14.205	ng	99
75) Fluoranthene	12.621	202	427897	52.154	ng	100
78) Pyrene	12.851	202	363047	31.822	ng	98
81) Benzo(a)anthracene	14.045	228	200504	24.420	ng	99
83) Chrysene	14.080	228	147420	20.121	ng	98
87) Indeno(1,2,3-cd)pyrene	17.057	276	58991	5.402	ng	95
88) Benzo(b)fluoranthene	15.110	252	193436m	23.319	ng	
89) Benzo(k)fluoranthene	15.127	252	60444m	7.788	ng	
90) Benzo(a)pyrene	15.486	252	147946	18.462	ng	99
92) Benzo(g,h,i)perylene	17.515	276	50403	5.697	ng	98

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

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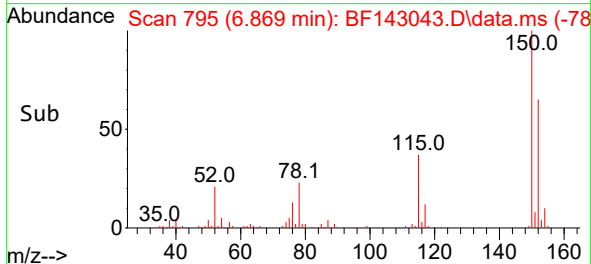
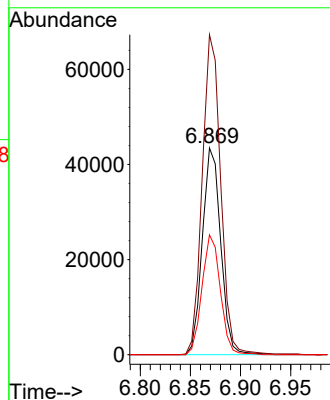
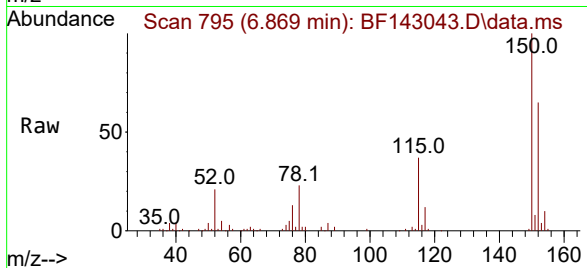




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.869 min Scan# 797
Delta R.T. -0.012 min
Lab File: BF143043.D
Acq: 08 Jul 2025 20:12

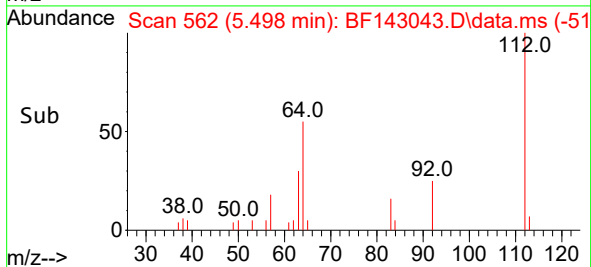
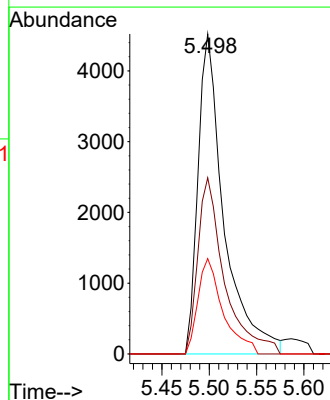
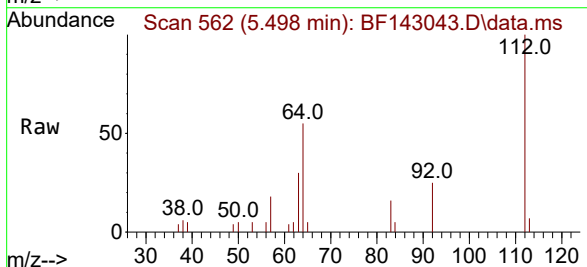
Instrument :
BNA_F
ClientSampleId :
PIT#1DL

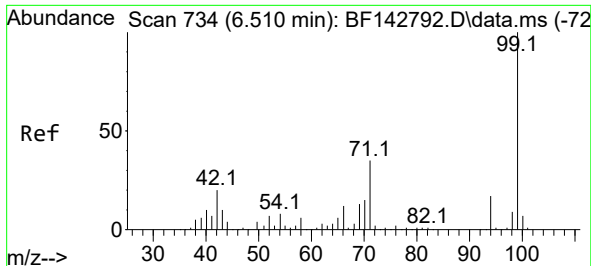
Tgt Ion:152 Resp: 55588
Ion Ratio Lower Upper
152 100
150 154.8 127.2 190.8
115 58.0 46.6 69.8



#5
2-Fluorophenol
Concen: 2.582 ng
RT: 5.498 min Scan# 562
Delta R.T. 0.006 min
Lab File: BF143043.D
Acq: 08 Jul 2025 20:12

Tgt Ion:112 Resp: 8621
Ion Ratio Lower Upper
112 100
64 55.0 48.2 72.2
63 29.8 25.7 38.5

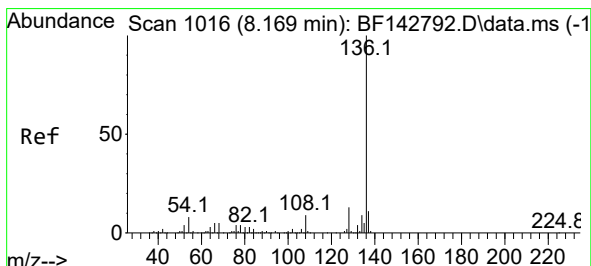
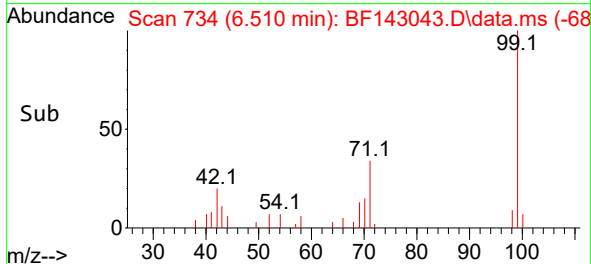
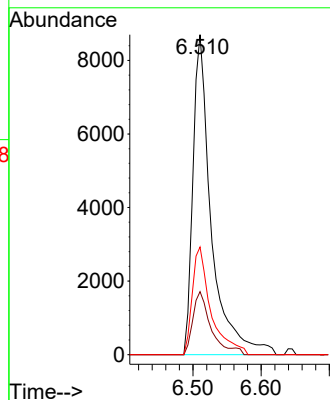
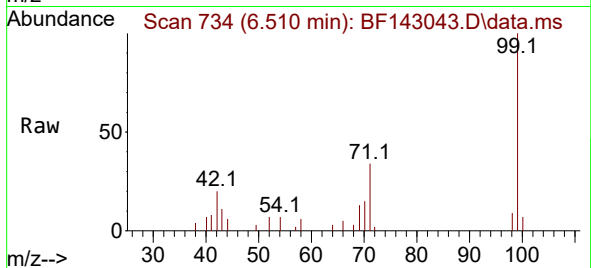




#7
Phenol-d6
Concen: 4.113 ng
RT: 6.510 min Scan# 71
Delta R.T. 0.000 min
Lab File: BF143043.D
Acq: 08 Jul 2025 20:12

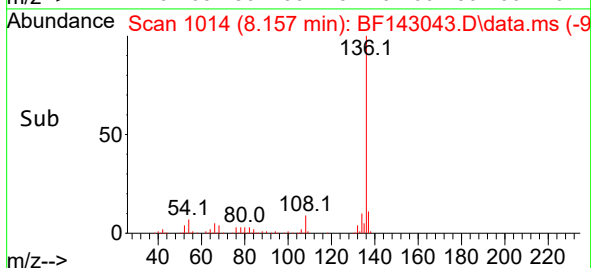
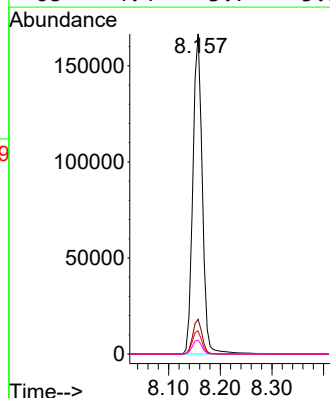
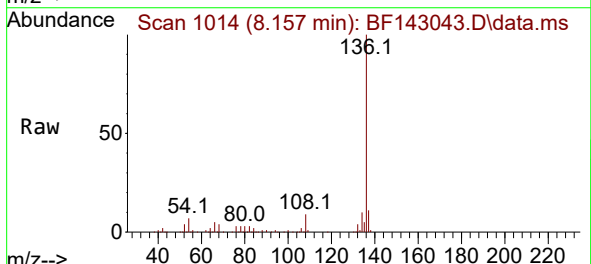
Instrument :
BNA_F
ClientSampleId :
PIT#1DL

Tgt Ion:	99	Resp:	16202
Ion	Ratio	Lower	Upper
99	100		
42	19.7	15.9	23.9
71	33.6	27.8	41.8



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.157 min Scan# 1014
Delta R.T. -0.012 min
Lab File: BF143043.D
Acq: 08 Jul 2025 20:12

Tgt Ion:	136	Resp:	211740
Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.4	12.6
54	7.2	6.3	9.5
68	4.4	3.7	5.5





#23

Nitrobenzene-d5

Concen: 2.708 ng

RT: 7.434 min Scan# 89

Delta R.T. -0.011 min

Lab File: BF143043.D

Acq: 08 Jul 2025 20:12

Instrument :

BNA_F

ClientSampleId :

PIT#1DL

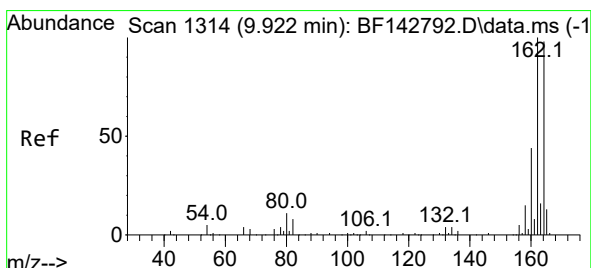
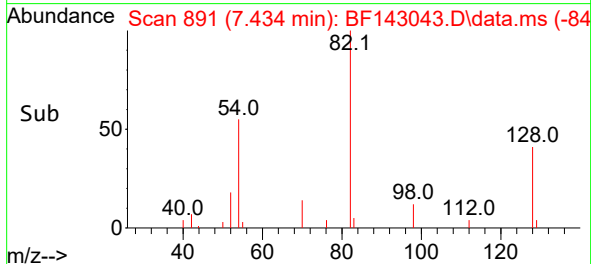
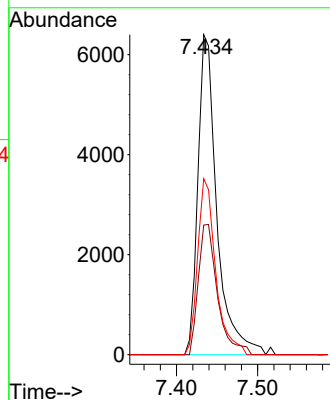
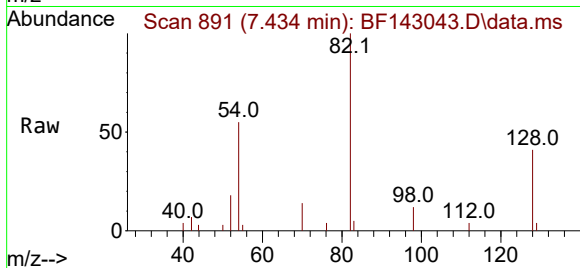
Tgt Ion: 82 Resp: 10454

Ion Ratio Lower Upper

82 100

128 40.5 37.7 56.5

54 55.0 45.7 68.5



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.916 min Scan# 1313

Delta R.T. -0.006 min

Lab File: BF143043.D

Acq: 08 Jul 2025 20:12

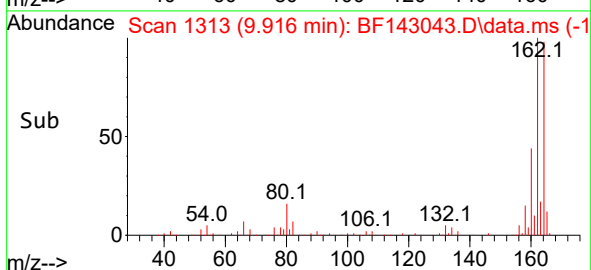
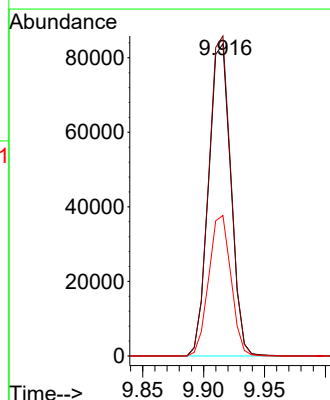
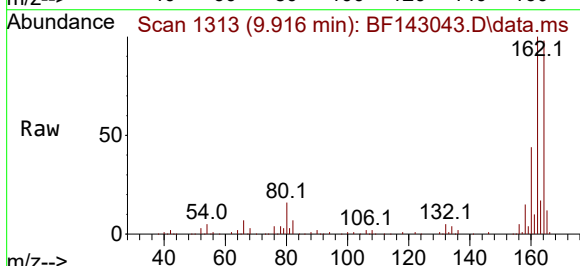
Tgt Ion:164 Resp: 106126

Ion Ratio Lower Upper

164 100

162 102.5 81.8 122.8

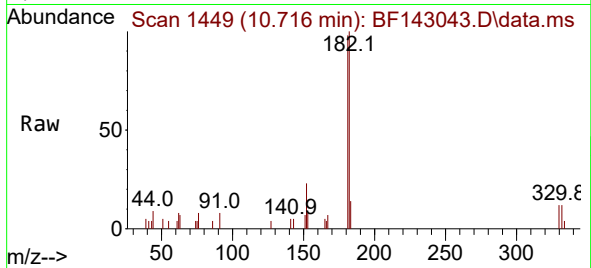
160 45.0 36.0 54.0



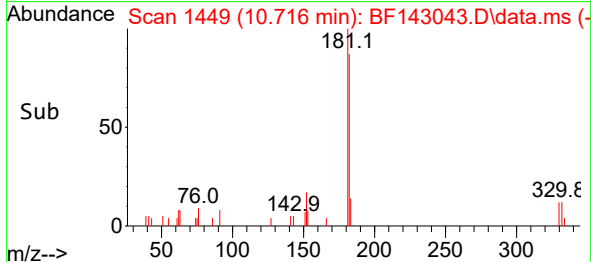
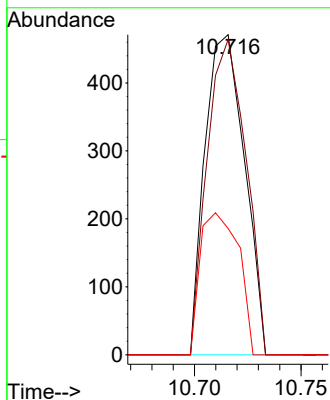


#42
2,4,6-Tribromophenol
Concen: 0.557 ng
RT: 10.716 min Scan# 1449
Delta R.T. -0.000 min
Lab File: BF143043.D
Acq: 08 Jul 2025 20:12

Instrument :
BNA_F
ClientSampleId :
PIT#1DL

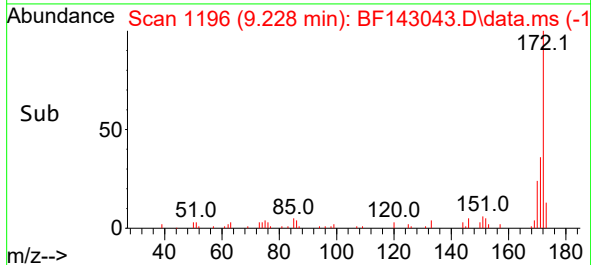
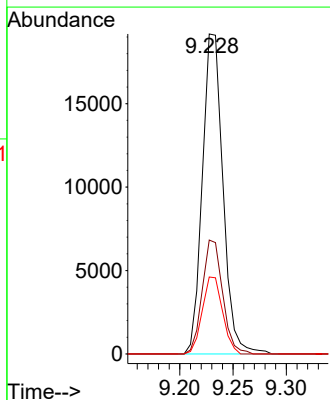
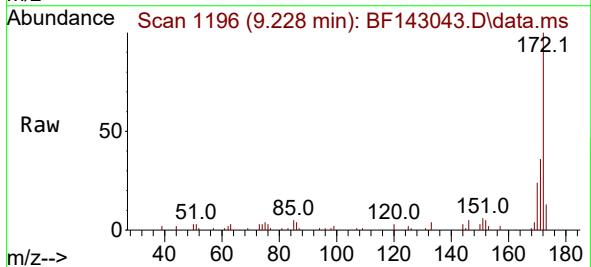


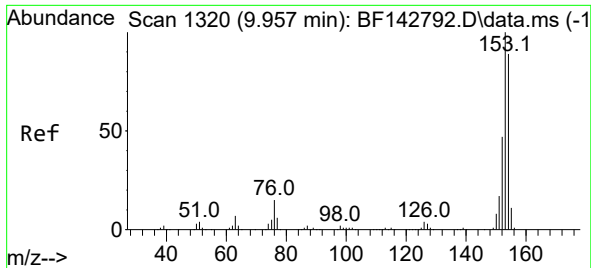
Tgt Ion: 330 Resp: 608
Ion Ratio Lower Upper
330 100
332 96.7 75.0 112.6
141 43.1 25.3 37.9#



#45
2-Fluorobiphenyl
Concen: 3.211 ng
RT: 9.228 min Scan# 1196
Delta R.T. -0.017 min
Lab File: BF143043.D
Acq: 08 Jul 2025 20:12

Tgt Ion: 172 Resp: 25939
Ion Ratio Lower Upper
172 100
171 35.6 28.2 42.4
170 24.1 18.5 27.7

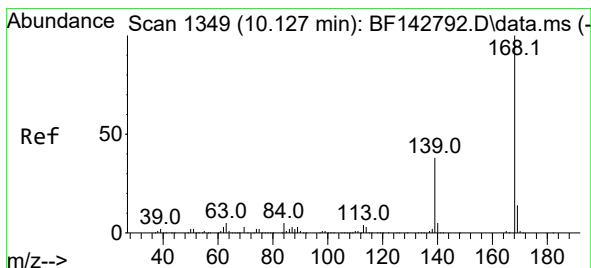
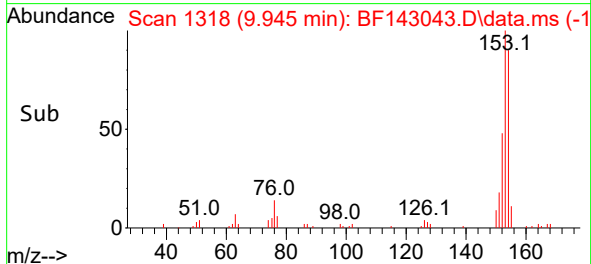
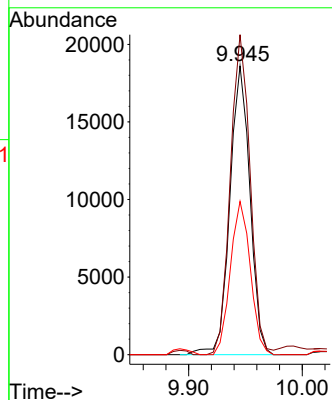
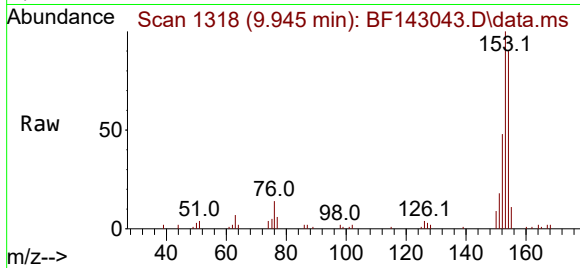




#52
Acenaphthene
Concen: 3.610 ng
RT: 9.945 min Scan# 1318
Delta R.T. -0.012 min
Lab File: BF143043.D
Acq: 08 Jul 2025 20:12

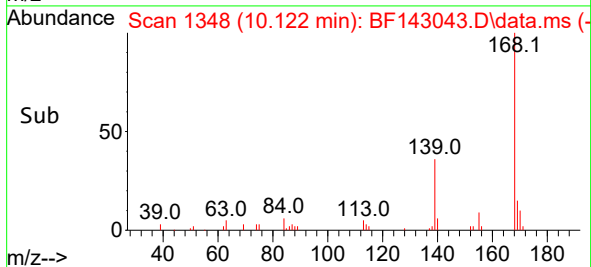
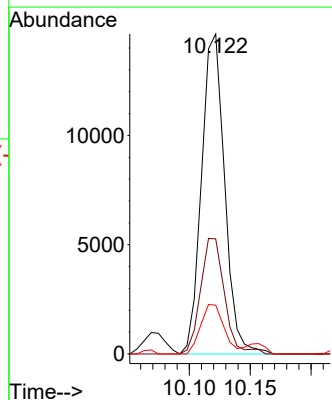
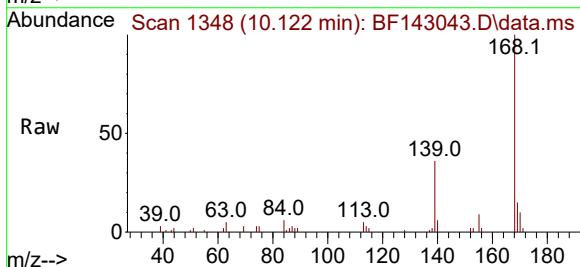
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ClientSampleId :
PIT#1DL

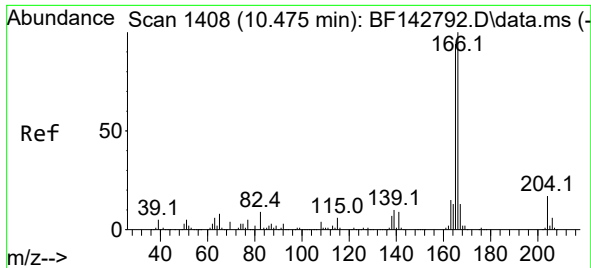
Tgt Ion:154 Resp: 22809
Ion Ratio Lower Upper
154 100
153 110.8 90.0 135.0
152 53.0 41.9 62.9



#55
Dibenzofuran
Concen: 2.135 ng
RT: 10.122 min Scan# 1348
Delta R.T. -0.006 min
Lab File: BF143043.D
Acq: 08 Jul 2025 20:12

Tgt Ion:168 Resp: 19346
Ion Ratio Lower Upper
168 100
139 36.0 30.2 45.4
169 15.2 10.8 16.2

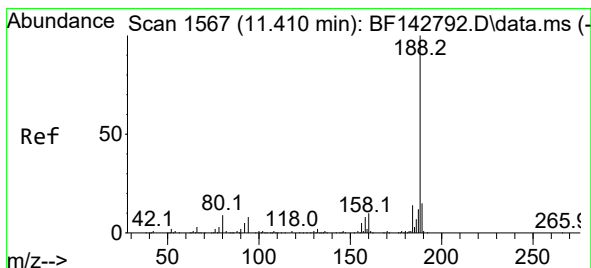
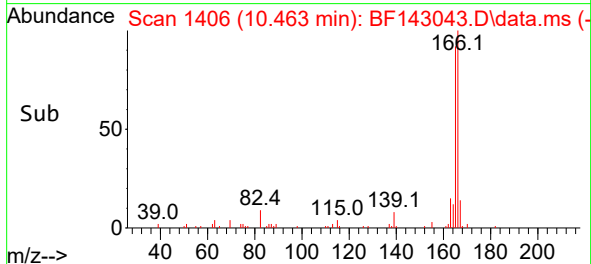
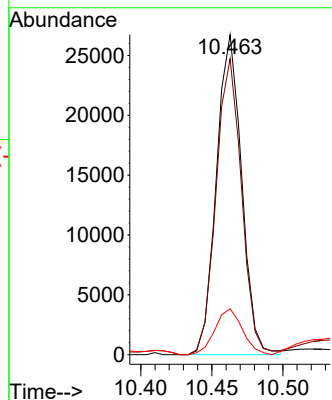
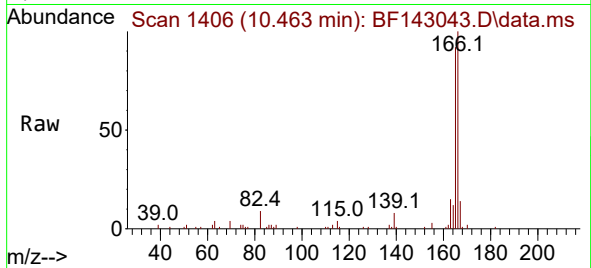




#58
Fluorene
Concen: 4.664 ng
RT: 10.463 min Scan# 1406
Delta R.T. -0.012 min
Lab File: BF143043.D
Acq: 08 Jul 2025 20:12

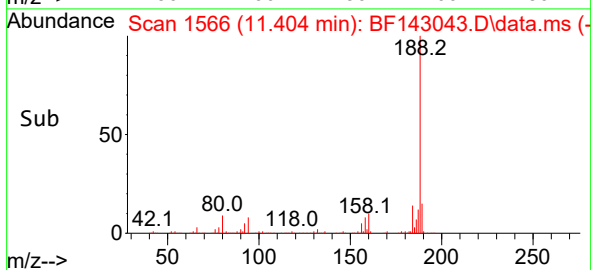
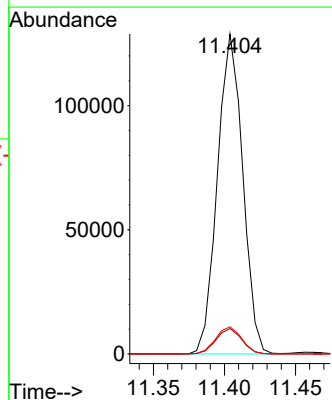
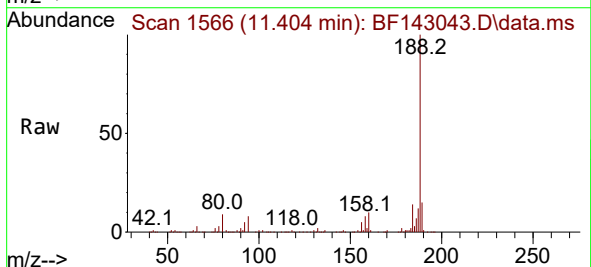
Instrument :
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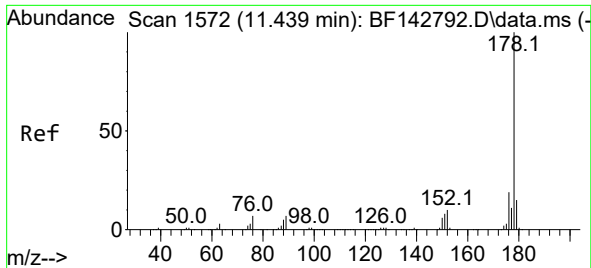
Tgt Ion:166 Resp: 33004
Ion Ratio Lower Upper
166 100
165 92.5 75.2 112.8
167 14.4 10.6 15.8



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.404 min Scan# 1566
Delta R.T. -0.006 min
Lab File: BF143043.D
Acq: 08 Jul 2025 20:12

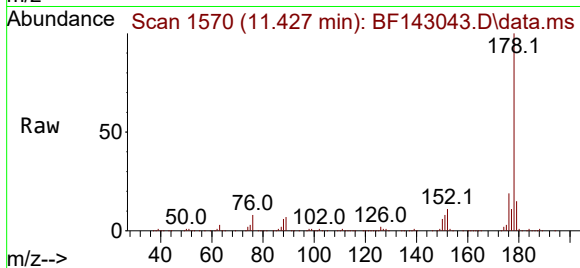
Tgt Ion:188 Resp: 159588
Ion Ratio Lower Upper
188 100
94 7.9 6.7 10.1
80 8.5 6.9 10.3



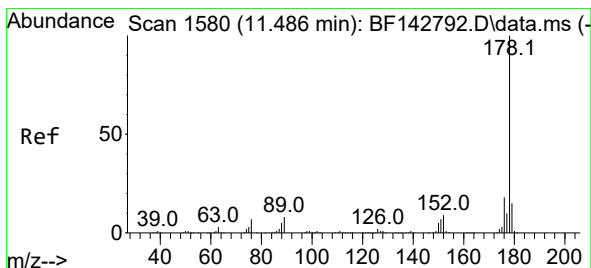
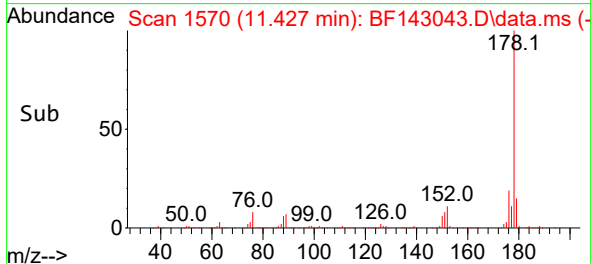
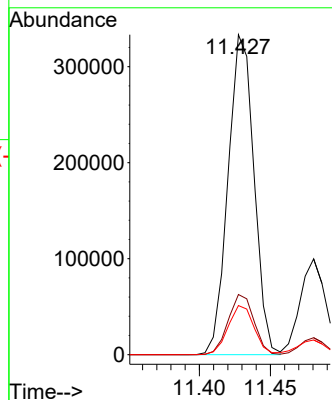


#71
Phenanthrene
Concen: 48.952 ng
RT: 11.427 min Scan# 1570
Delta R.T. -0.012 min
Lab File: BF143043.D
Acq: 08 Jul 2025 20:12

Instrument :
BNA_F
ClientSampleId :
PIT#1DL

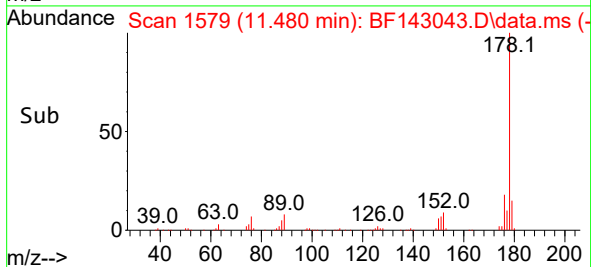
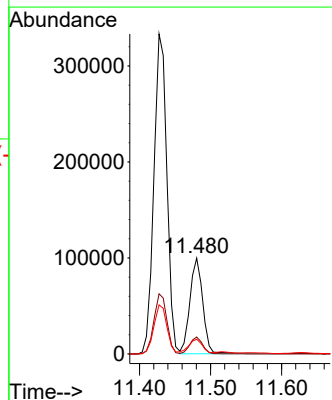
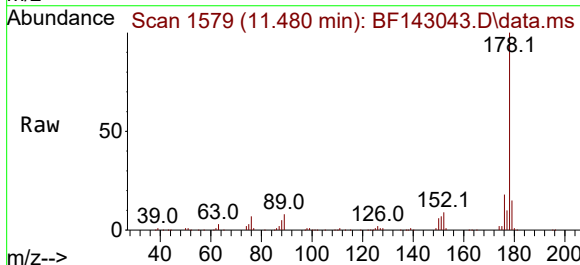


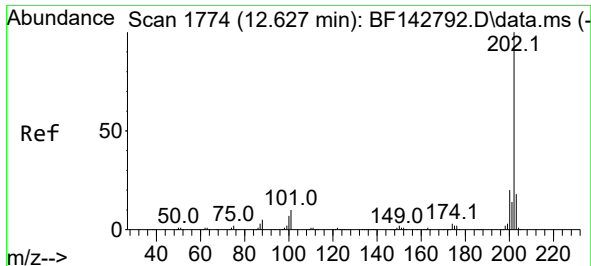
Tgt Ion:178 Resp: 423185
Ion Ratio Lower Upper
178 100
176 18.8 15.1 22.7
179 15.4 12.0 18.0



#72
Anthracene
Concen: 14.205 ng
RT: 11.480 min Scan# 1579
Delta R.T. -0.006 min
Lab File: BF143043.D
Acq: 08 Jul 2025 20:12

Tgt Ion:178 Resp: 125946
Ion Ratio Lower Upper
178 100
176 17.7 14.6 21.8
179 15.3 12.4 18.6

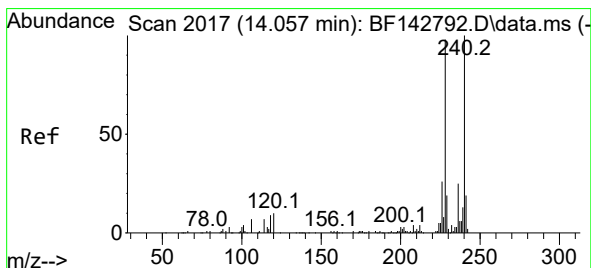
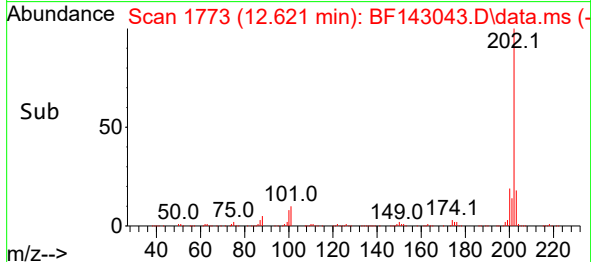
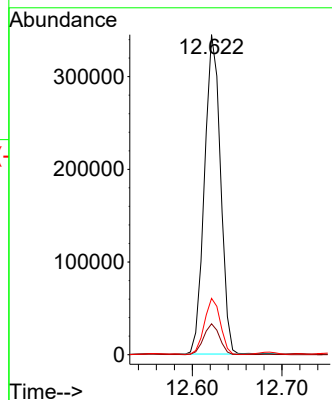
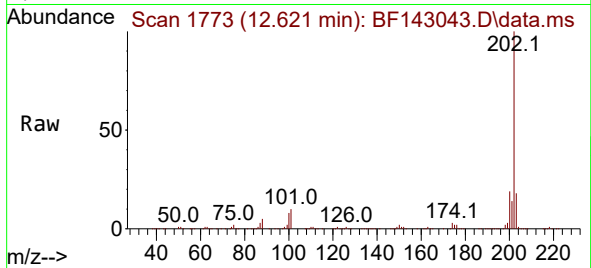




#75
Fluoranthene
Concen: 52.154 ng
RT: 12.621 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143043.D
Acq: 08 Jul 2025 20:12

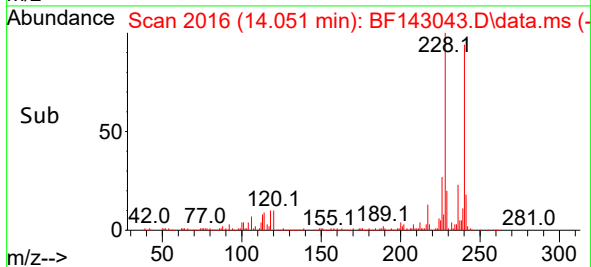
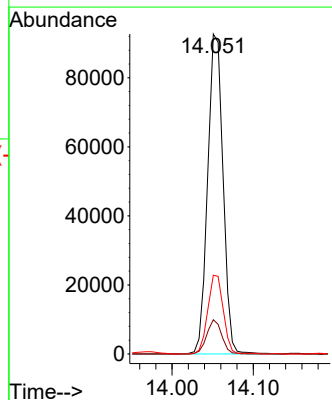
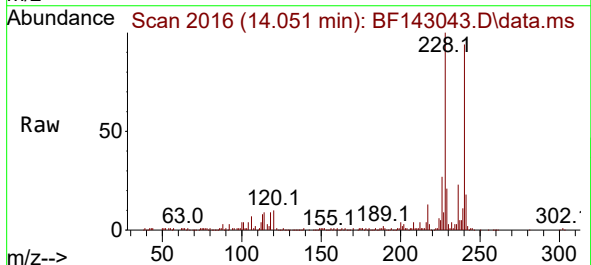
Instrument :
BNA_F
ClientSampleId :
PIT#1DL

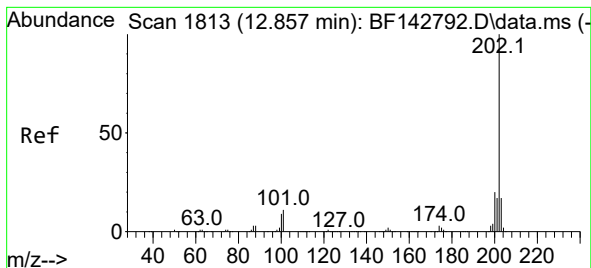
Tgt Ion:202 Resp: 427897
Ion Ratio Lower Upper
202 100
101 9.6 0.0 29.7
203 17.6 0.0 37.5



#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.051 min Scan# 2016
Delta R.T. -0.006 min
Lab File: BF143043.D
Acq: 08 Jul 2025 20:12

Tgt Ion:240 Resp: 121712
Ion Ratio Lower Upper
240 100
120 10.7 8.2 12.2
236 24.6 19.8 29.8





#78

Pyrene

Concen: 31.822 ng

RT: 12.851 min Scan# 1812

Delta R.T. -0.006 min

Lab File: BF143043.D

Acq: 08 Jul 2025 20:12

Instrument :

BNA_F

ClientSampleId :

PIT#1DL

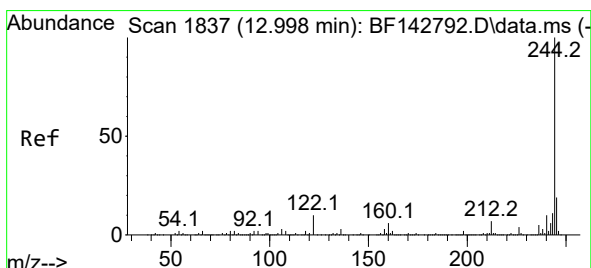
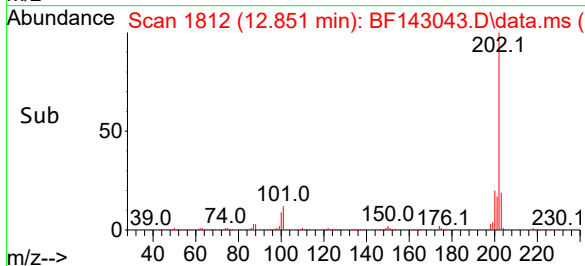
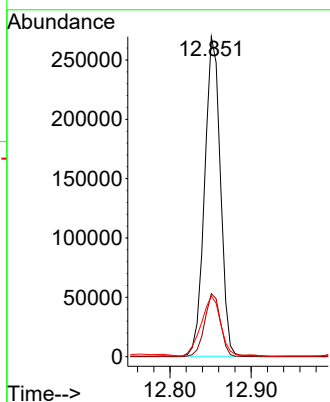
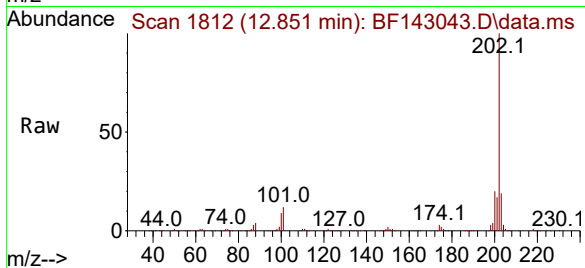
Tgt Ion:202 Resp: 363047

Ion Ratio Lower Upper

202 100

200 19.7 15.7 23.5

203 19.0 13.8 20.6



#79

Terphenyl-d14

Concen: 2.270 ng

RT: 12.986 min Scan# 1835

Delta R.T. -0.012 min

Lab File: BF143043.D

Acq: 08 Jul 2025 20:12

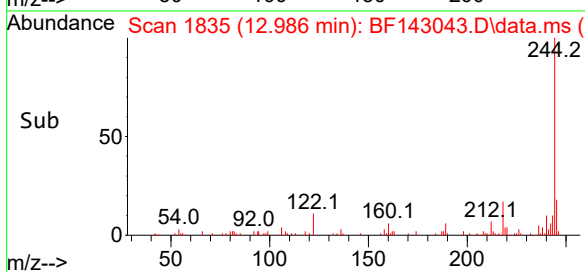
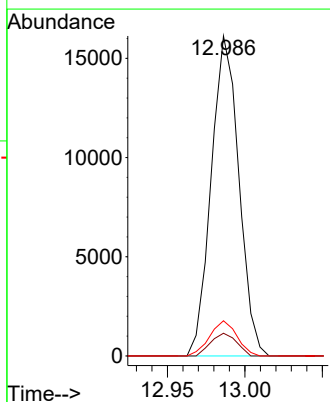
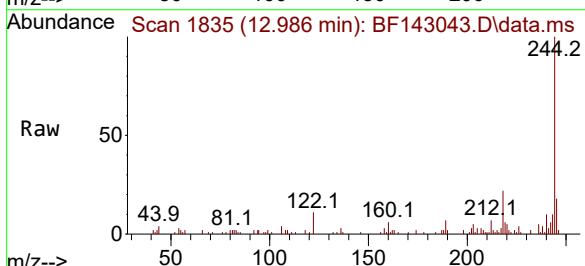
Tgt Ion:244 Resp: 19995

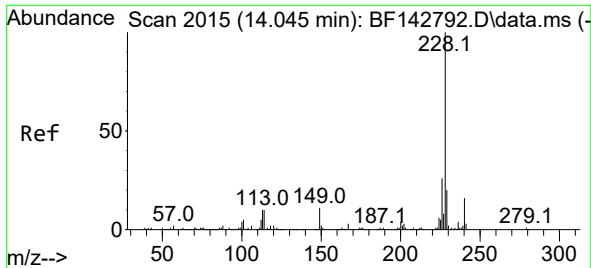
Ion Ratio Lower Upper

244 100

212 7.1 5.4 8.0

122 11.0 8.2 12.2

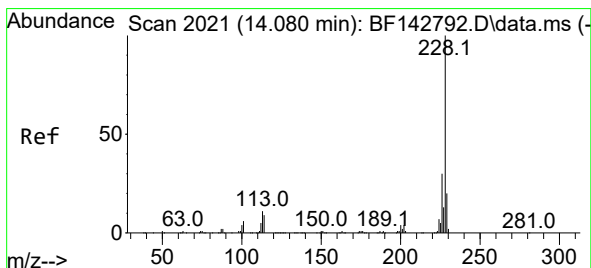
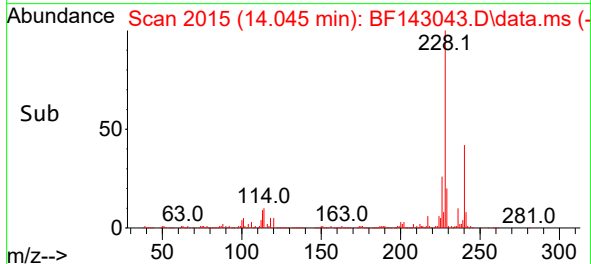
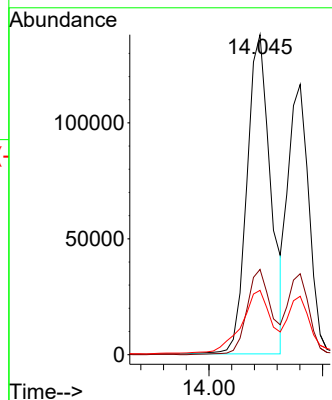
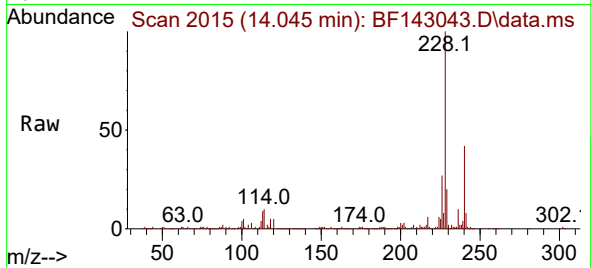




#81
Benzo(a)anthracene
Concen: 24.420 ng
RT: 14.045 min Scan# 2015
Delta R.T. 0.000 min
Lab File: BF143043.D
Acq: 08 Jul 2025 20:12

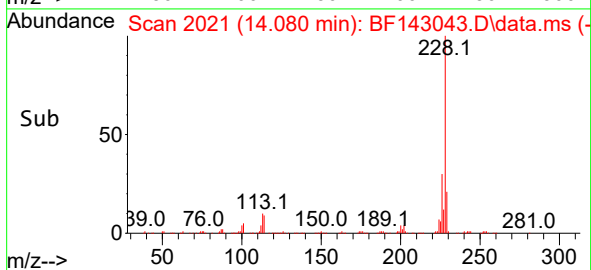
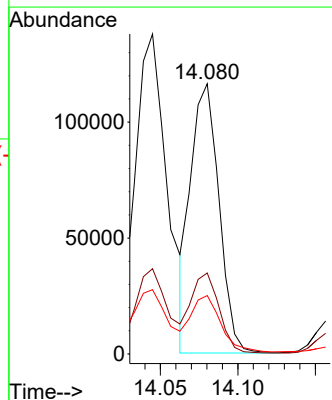
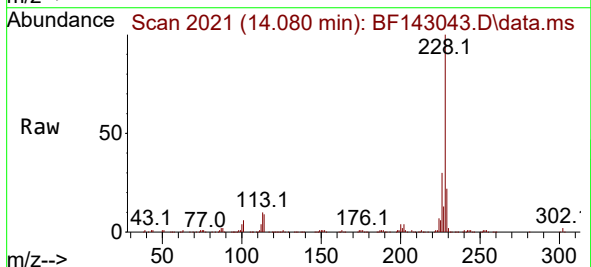
Instrument :
BNA_F
ClientSampleId :
PIT#1DL

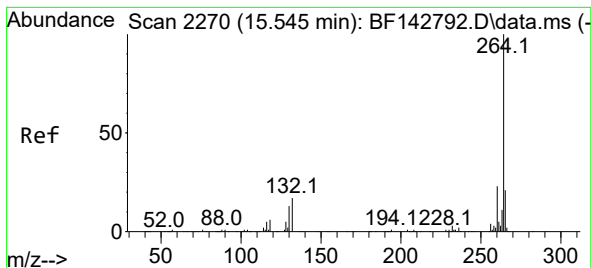
Tgt Ion:228 Resp: 200504
Ion Ratio Lower Upper
228 100
226 26.7 21.2 31.8
229 20.1 15.6 23.4



#83
Chrysene
Concen: 20.121 ng
RT: 14.080 min Scan# 2021
Delta R.T. 0.000 min
Lab File: BF143043.D
Acq: 08 Jul 2025 20:12

Tgt Ion:228 Resp: 147420
Ion Ratio Lower Upper
228 100
226 30.0 23.7 35.5
229 21.6 15.7 23.5





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.551 min Scan# 21

Delta R.T. 0.006 min

Lab File: BF143043.D

Acq: 08 Jul 2025 20:12

Instrument :

BNA_F

ClientSampleId :

PIT#1DL

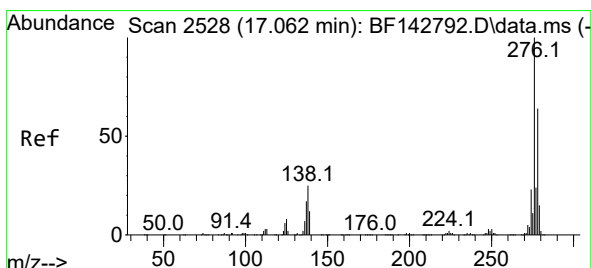
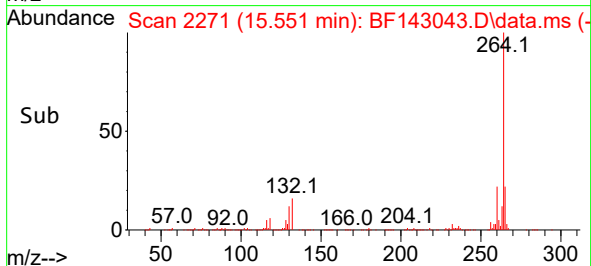
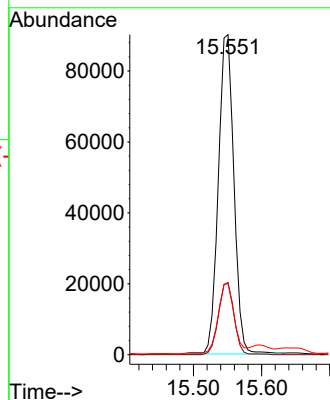
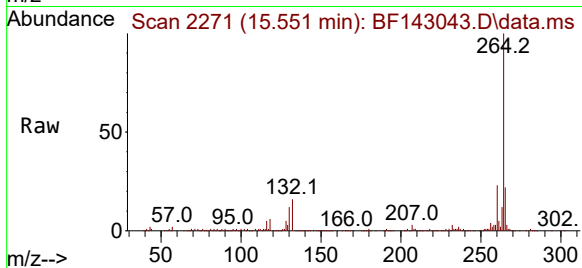
Tgt Ion:264 Resp: 143355

Ion Ratio Lower Upper

264 100

260 22.6 18.1 27.1

265 22.1 16.6 25.0



#87

Indeno(1,2,3-cd)pyrene

Concen: 5.402 ng

RT: 17.057 min Scan# 2527

Delta R.T. -0.006 min

Lab File: BF143043.D

Acq: 08 Jul 2025 20:12

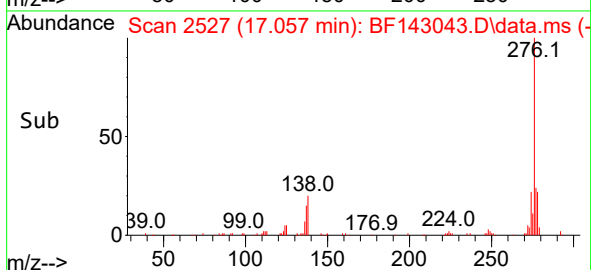
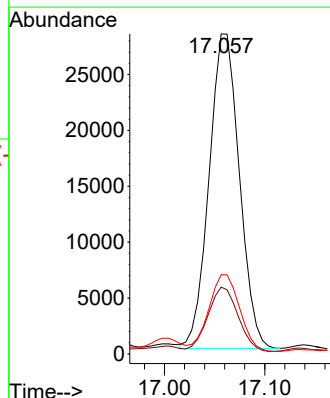
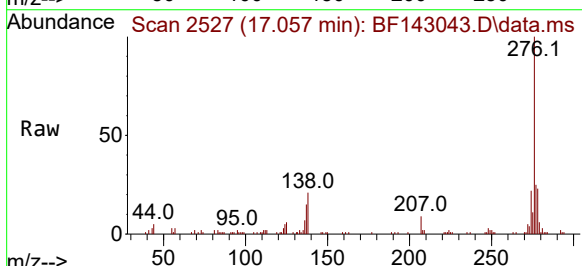
Tgt Ion:276 Resp: 58991

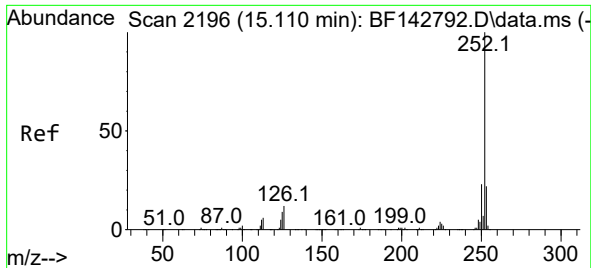
Ion Ratio Lower Upper

276 100

138 20.3 20.2 30.4

277 24.9 19.8 29.6

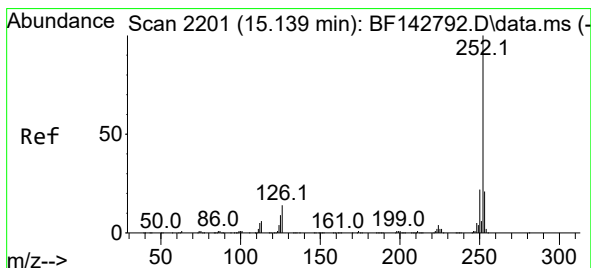
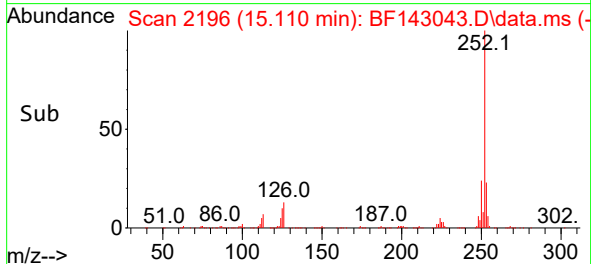
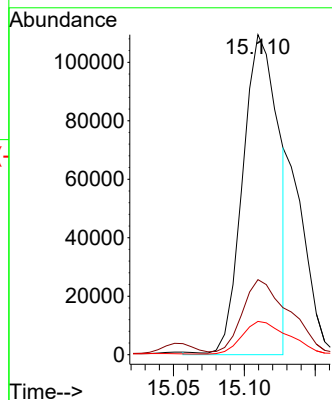
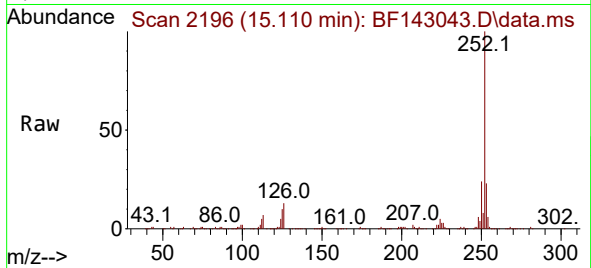




#88
Benzo(b)fluoranthene
Concen: 23.319 ng m
RT: 15.110 min Scan# 2196
Delta R.T. 0.000 min
Lab File: BF143043.D
Acq: 08 Jul 2025 20:12

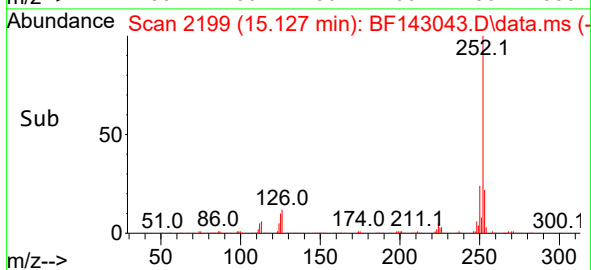
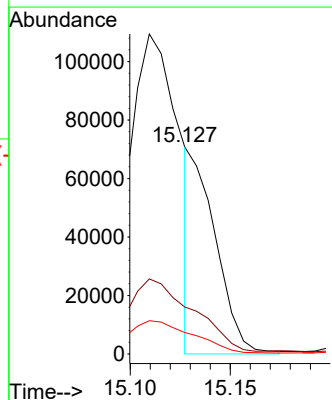
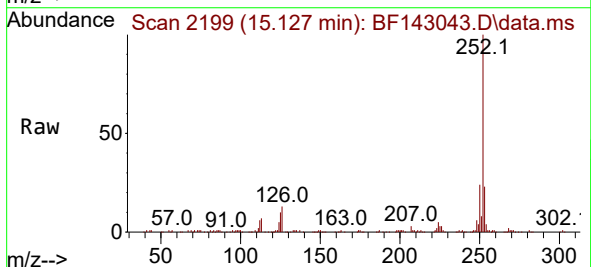
Instrument :
BNA_F
ClientSampleId :
PIT#1DL

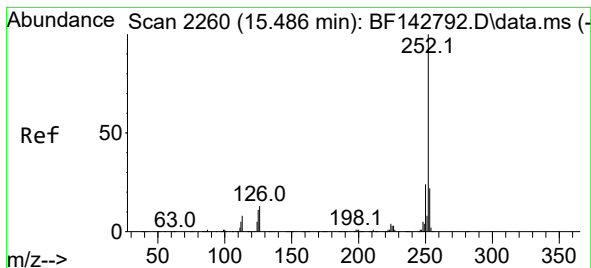
Tgt Ion:252 Resp: 193436
Ion Ratio Lower Upper
252 100
253 23.5 17.5 26.3
125 10.4 7.4 11.0



#89
Benzo(k)fluoranthene
Concen: 7.788 ng m
RT: 15.127 min Scan# 2199
Delta R.T. -0.012 min
Lab File: BF143043.D
Acq: 08 Jul 2025 20:12

Tgt Ion:252 Resp: 60444
Ion Ratio Lower Upper
252 100
253 22.7 17.2 25.8
125 10.4 7.4 11.2





#90

Benzo(a)pyrene

Concen: 18.462 ng

RT: 15.486 min Scan# 21

Delta R.T. 0.000 min

Lab File: BF143043.D

Acq: 08 Jul 2025 20:12

Instrument :

BNA_F

ClientSampleId :

PIT#1DL

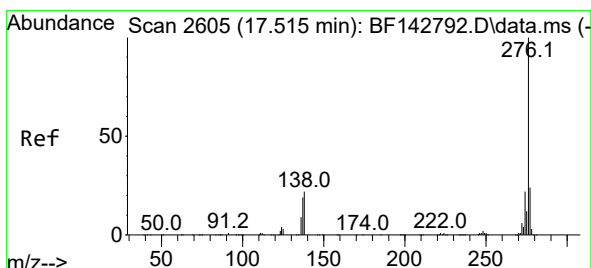
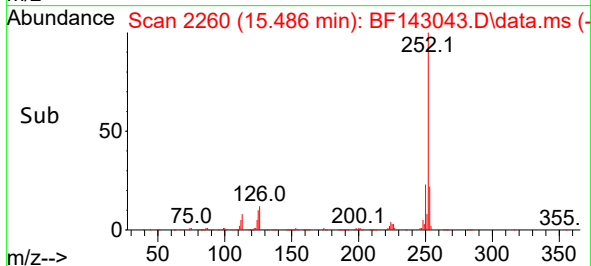
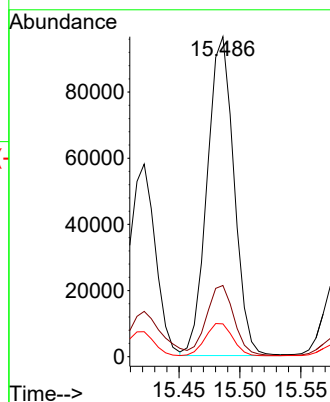
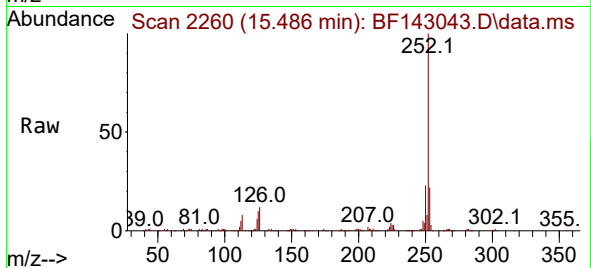
Tgt Ion:252 Resp: 147946

Ion Ratio Lower Upper

252 100

253 22.3 17.5 26.3

125 10.3 8.6 12.8



#92

Benzo(g,h,i)perylene

Concen: 5.697 ng

RT: 17.515 min Scan# 2605

Delta R.T. 0.000 min

Lab File: BF143043.D

Acq: 08 Jul 2025 20:12

Tgt Ion:276 Resp: 50403

Ion Ratio Lower Upper

276 100

277 24.7 18.8 28.2

138 21.5 17.6 26.4

