

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF072525\
 Data File : BF143256.D
 Acq On : 25 Jul 2025 17:47
 Operator : RC/JU
 Sample : Q2684-01 10X
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 PL-02-07232025

Quant Time: Jul 25 18:12:45 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF071725.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jul 17 15:14:05 2025
 Response via : Initial Calibration

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

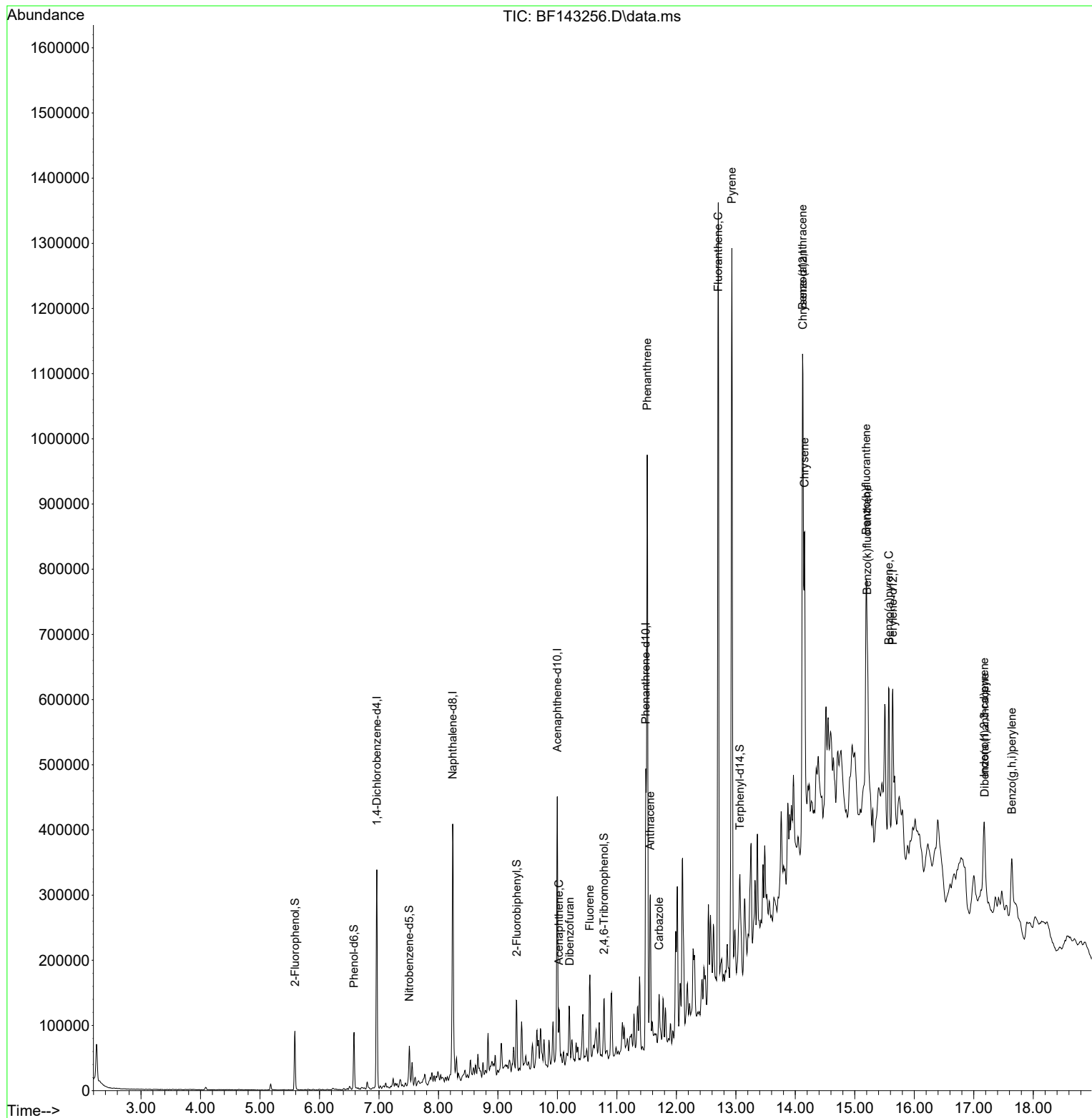
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.963	152	66310	20.000	ng	0.00
21) Naphthalene-d8	8.239	136	229850	20.000	ng	0.00
39) Acenaphthene-d10	9.998	164	114595	20.000	ng	0.00
64) Phenanthrene-d10	11.486	188	207342	20.000	ng	0.00
76) Chrysene-d12	14.127	240	180722	20.000	ng	0.00
86) Perylene-d12	15.639	264	134037	20.000	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.587	112	31419	7.498	ng	0.00
7) Phenol-d6	6.581	99	39444	7.479	ng	0.00
23) Nitrobenzene-d5	7.510	82	24137	5.235	ng	-0.01
42) 2,4,6-Tribromophenol	10.786	330	9039	7.635	ng	0.00
45) 2-Fluorobiphenyl	9.316	172	48520	5.791	ng	0.00
79) Terphenyl-d14	13.068	244	58352	4.805	ng	0.00
Target Compounds						
						Qvalue
52) Acenaphthene	10.027	154	24416	3.726	ng	94
55) Dibenzofuran	10.204	168	31387	3.226	ng	# 96
58) Fluorene	10.545	166	49861	6.829	ng	98
71) Phenanthrene	11.510	178	467357	42.451	ng	99
72) Anthracene	11.563	178	133997	11.934	ng	100
73) Carbazole	11.710	167	40920	4.174	ng	96
75) Fluoranthene	12.704	202	677690	67.065	ng	99
78) Pyrene	12.933	202	641879	41.617	ng	99
81) Benzo(a)anthracene	14.121	228	316704	26.175	ng	97
83) Chrysene	14.157	228	233188	21.436	ng	97
87) Indeno(1,2,3-cd)pyrene	17.174	276	76975	8.144	ng	94
88) Benzo(b)fluoranthene	15.192	252	215169m	26.277	ng	
89) Benzo(k)fluoranthene	15.209	252	72080m	9.865	ng	
90) Benzo(a)pyrene	15.574	252	152058	20.155	ng	96
91) Dibenzo(a,h)anthracene	17.186	278	20795	2.703	ng	# 76
92) Benzo(g,h,i)perylene	17.639	276	72594	9.755	ng	98

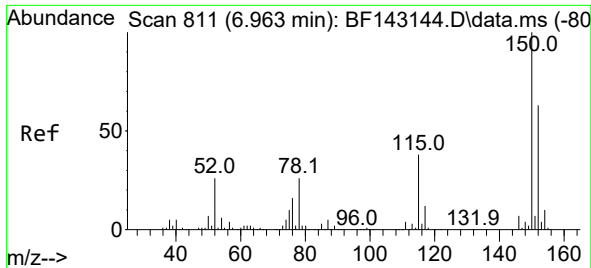
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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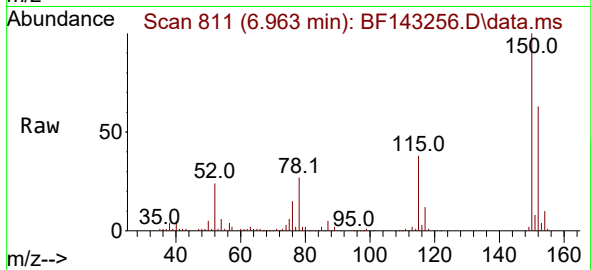
Quant Time: Jul 25 18:12:45 2025
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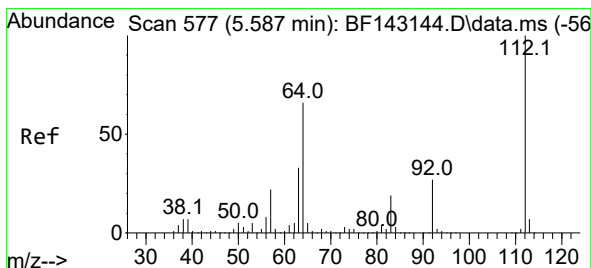
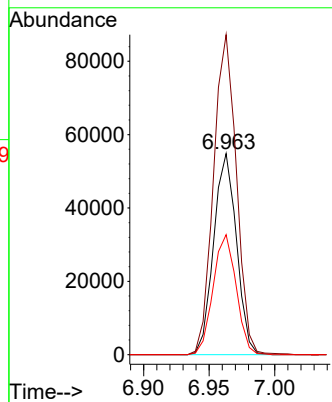
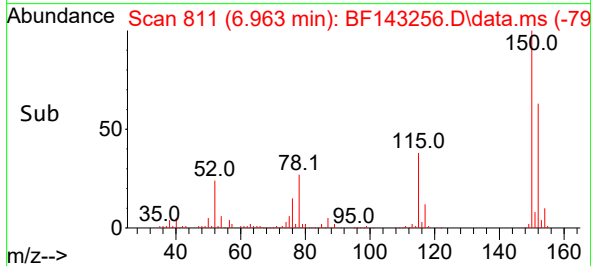


#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.963 min Scan# 811
Delta R.T. -0.000 min
Lab File: BF143256.D
Acq: 25 Jul 2025 17:47

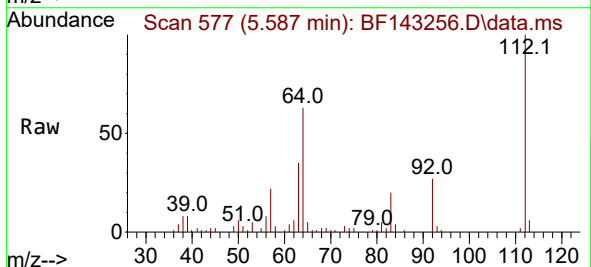
Instrument :
BNA_F
ClientSampleId :
PL-02-07232025



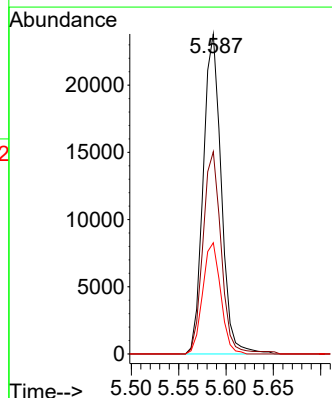
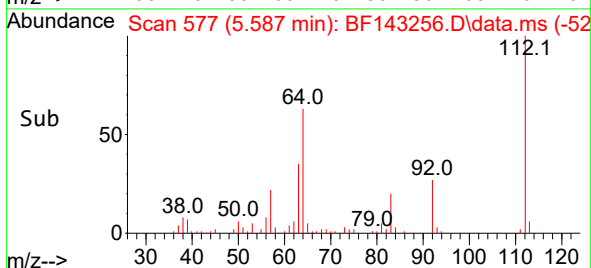
Tgt Ion:152 Resp: 66310
Ion Ratio Lower Upper
152 100
150 159.1 128.2 192.4
115 59.7 47.9 71.9

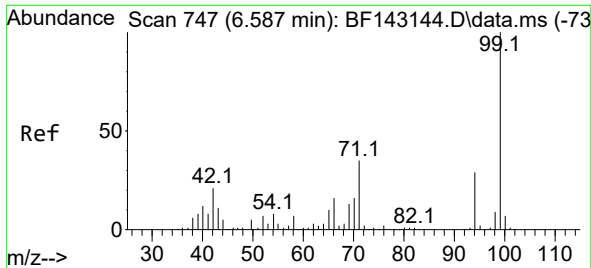


#5
2-Fluorophenol
Concen: 7.498 ng
RT: 5.587 min Scan# 577
Delta R.T. -0.000 min
Lab File: BF143256.D
Acq: 25 Jul 2025 17:47



Tgt Ion:112 Resp: 31419
Ion Ratio Lower Upper
112 100
64 63.2 53.1 79.7
63 34.8 26.6 40.0

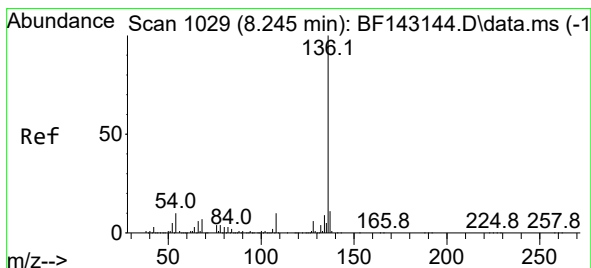
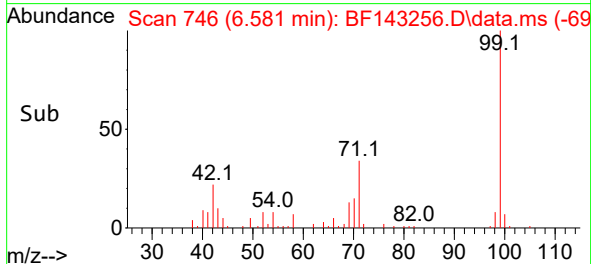
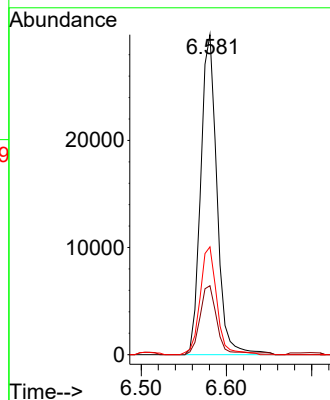
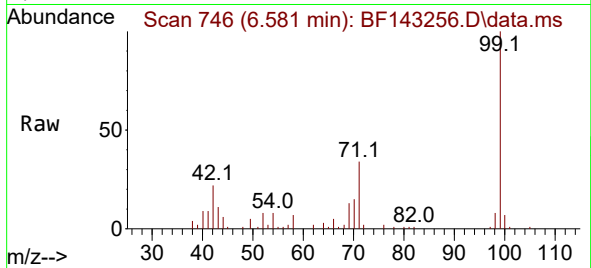




#7
Phenol-d6
Concen: 7.479 ng
RT: 6.581 min Scan# 74
Delta R.T. -0.006 min
Lab File: BF143256.D
Acq: 25 Jul 2025 17:47

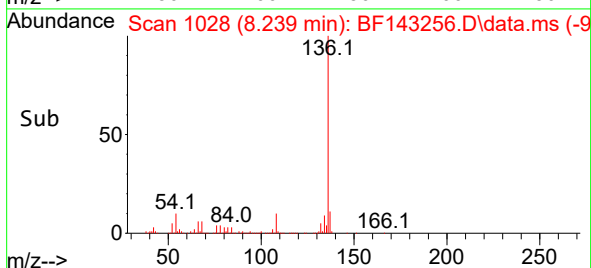
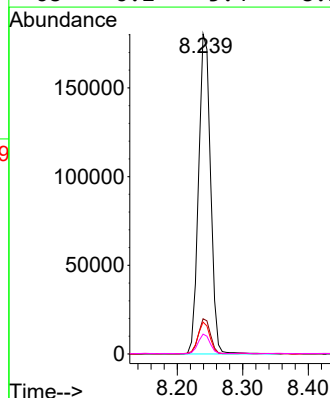
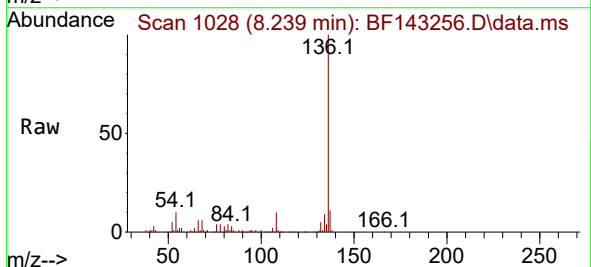
Instrument :
BNA_F
ClientSampleId :
PL-02-07232025

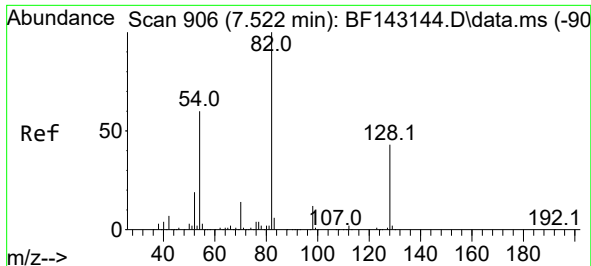
Tgt Ion: 99 Resp: 39444
Ion Ratio Lower Upper
99 100
42 21.6 17.0 25.6
71 33.7 27.7 41.5



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.239 min Scan# 1028
Delta R.T. -0.006 min
Lab File: BF143256.D
Acq: 25 Jul 2025 17:47

Tgt Ion: 136 Resp: 229850
Ion Ratio Lower Upper
136 100
137 11.0 8.6 13.0
54 10.0 8.2 12.2
68 6.2 5.4 8.2





#23

Nitrobenzene-d5

Concen: 5.235 ng

RT: 7.510 min Scan# 906

Delta R.T. -0.012 min

Lab File: BF143256.D

Acq: 25 Jul 2025 17:47

Instrument :

BNA_F

ClientSampleId :

PL-02-07232025

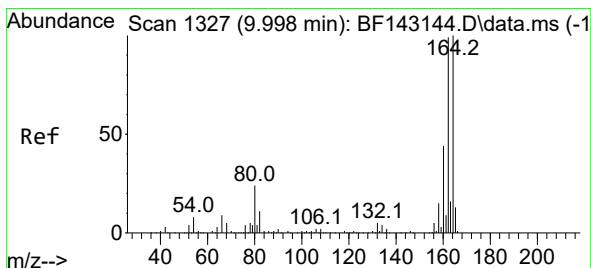
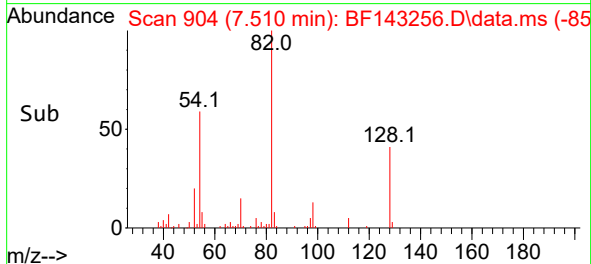
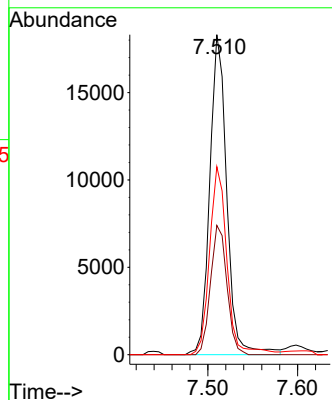
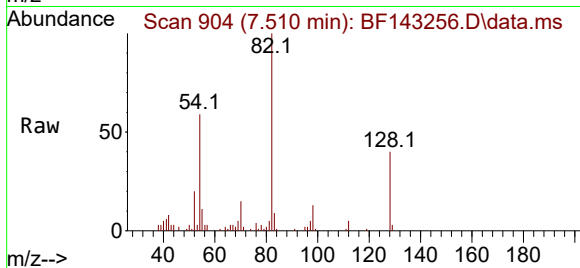
Tgt Ion: 82 Resp: 24137

Ion Ratio Lower Upper

82 100

128 40.4 33.6 50.4

54 58.7 47.1 70.7



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.998 min Scan# 1327

Delta R.T. 0.000 min

Lab File: BF143256.D

Acq: 25 Jul 2025 17:47

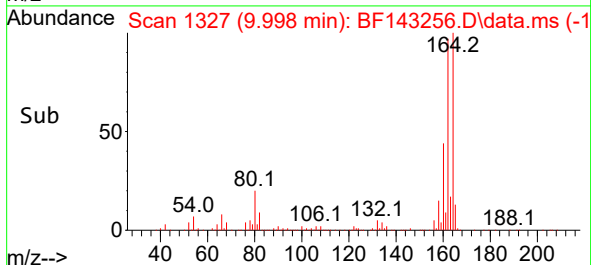
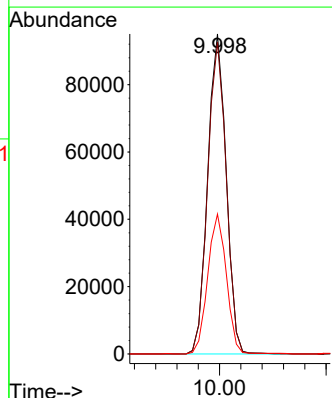
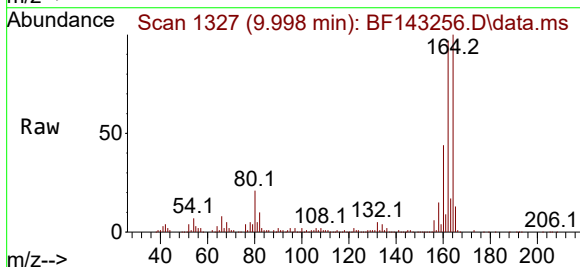
Tgt Ion: 164 Resp: 114595

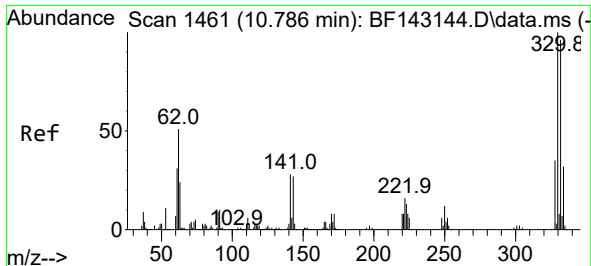
Ion Ratio Lower Upper

164 100

162 97.5 79.0 118.6

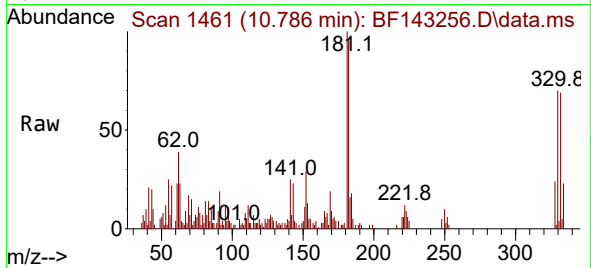
160 43.7 35.1 52.7



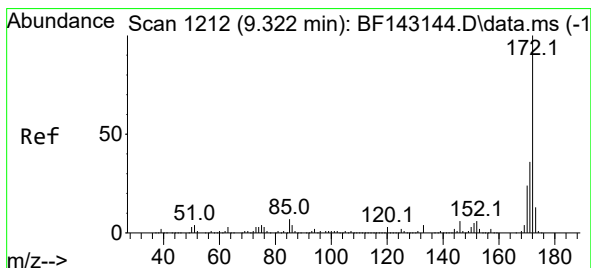
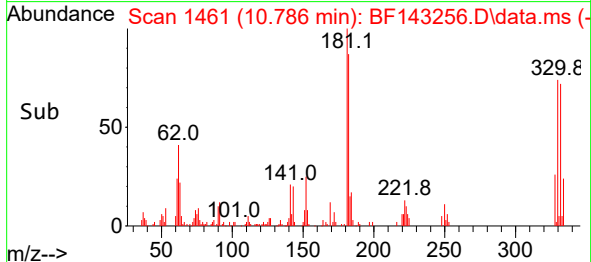
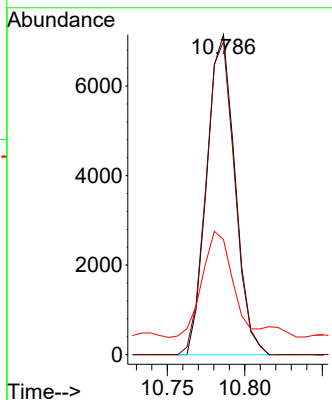


#42
2,4,6-Tribromophenol
Concen: 7.635 ng
RT: 10.786 min Scan# 1461
Delta R.T. -0.000 min
Lab File: BF143256.D
Acq: 25 Jul 2025 17:47

Instrument :
BNA_F
ClientSampleId :
PL-02-07232025

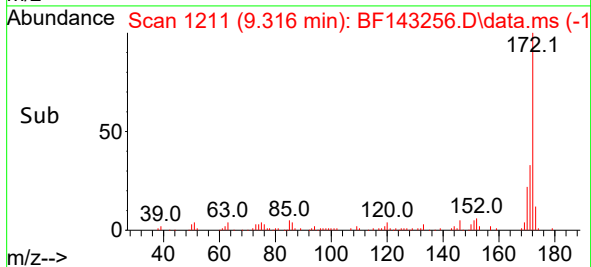
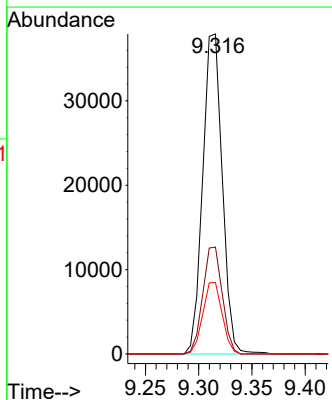
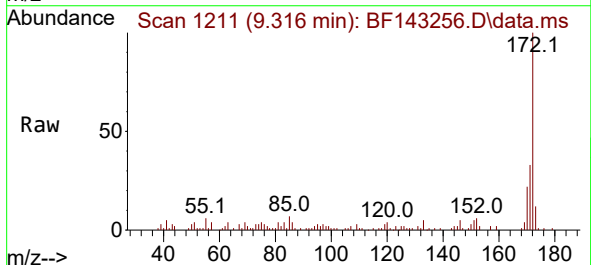


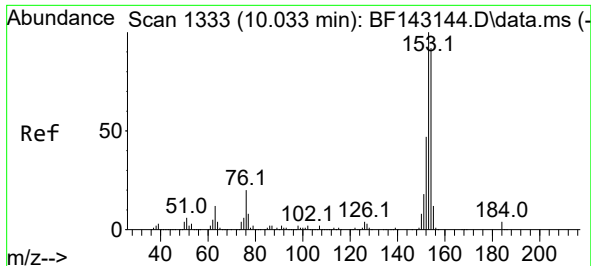
Tgt Ion:330 Resp: 9039
Ion Ratio Lower Upper
330 100
332 99.7 76.7 115.1
141 36.1 23.3 34.9#



#45
2-Fluorobiphenyl
Concen: 5.791 ng
RT: 9.316 min Scan# 1211
Delta R.T. -0.006 min
Lab File: BF143256.D
Acq: 25 Jul 2025 17:47

Tgt Ion:172 Resp: 48520
Ion Ratio Lower Upper
172 100
171 33.4 28.6 42.8
170 22.3 18.8 28.2

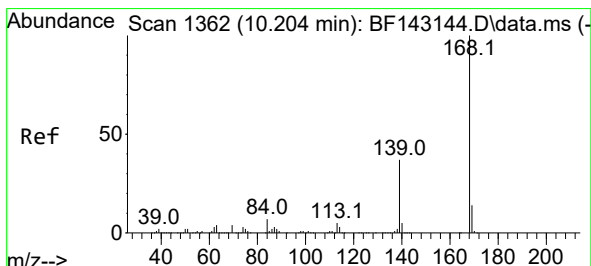
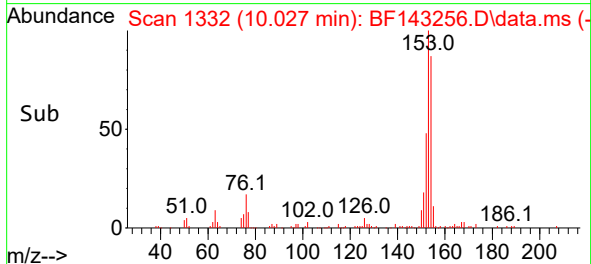
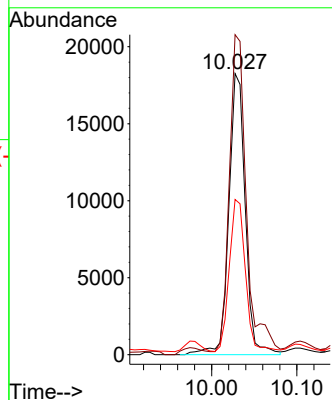
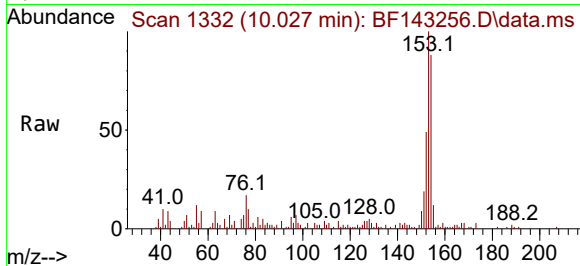




#52
Acenaphthene
Concen: 3.726 ng
RT: 10.027 min Scan# 1332
Delta R.T. -0.006 min
Lab File: BF143256.D
Acq: 25 Jul 2025 17:47

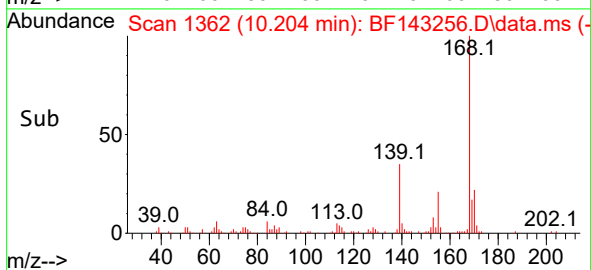
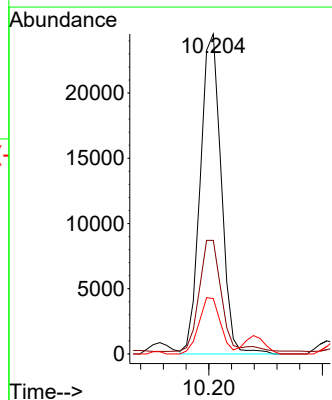
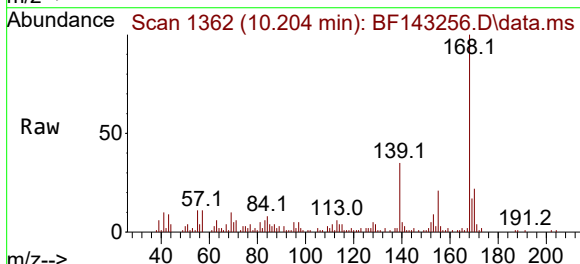
Instrument :
BNA_F
ClientSampleId :
PL-02-07232025

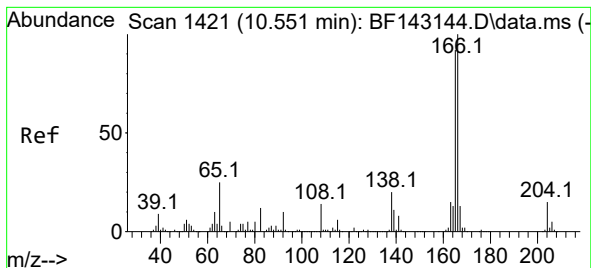
Tgt Ion:154 Resp: 24416
Ion Ratio Lower Upper
154 100
153 113.8 86.6 129.8
152 55.2 40.4 60.6



#55
Dibenzofuran
Concen: 3.226 ng
RT: 10.204 min Scan# 1362
Delta R.T. -0.000 min
Lab File: BF143256.D
Acq: 25 Jul 2025 17:47

Tgt Ion:168 Resp: 31387
Ion Ratio Lower Upper
168 100
139 35.5 29.5 44.3
169 17.3 10.9 16.3#





#58

Fluorene

Concen: 6.829 ng

RT: 10.545 min Scan# 14

Delta R.T. -0.006 min

Lab File: BF143256.D

Acq: 25 Jul 2025 17:47

Instrument :

BNA_F

ClientSampleId :

PL-02-07232025

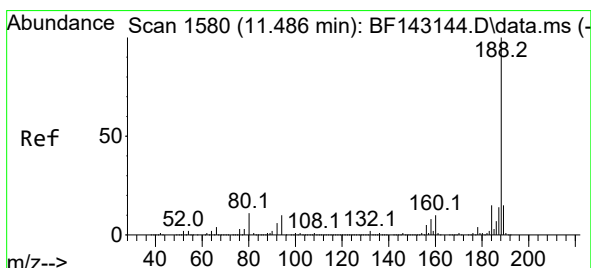
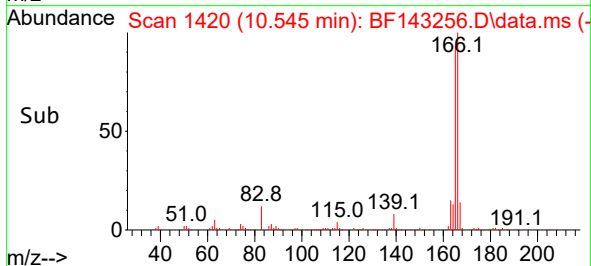
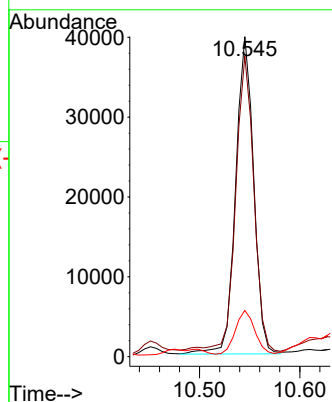
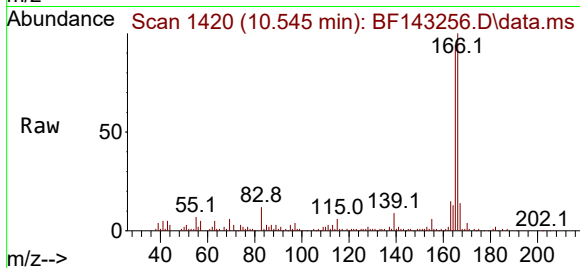
Tgt Ion:166 Resp: 49861

Ion Ratio Lower Upper

166 100

165 93.9 73.7 110.5

167 14.5 10.6 16.0



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.486 min Scan# 1580

Delta R.T. -0.000 min

Lab File: BF143256.D

Acq: 25 Jul 2025 17:47

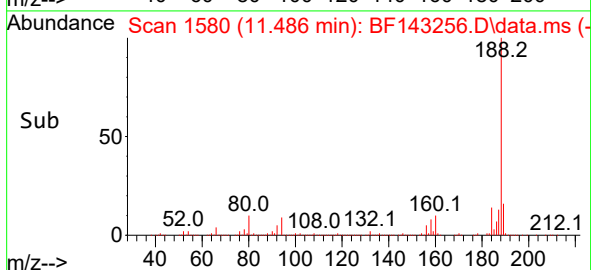
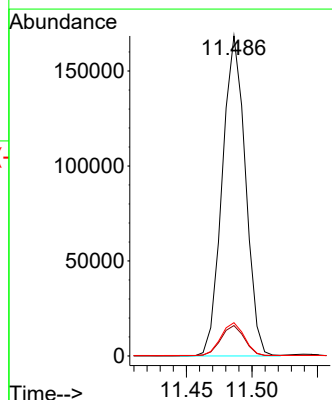
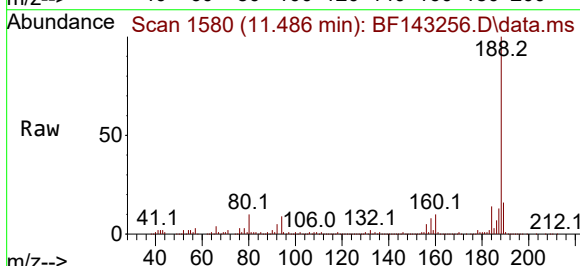
Tgt Ion:188 Resp: 207342

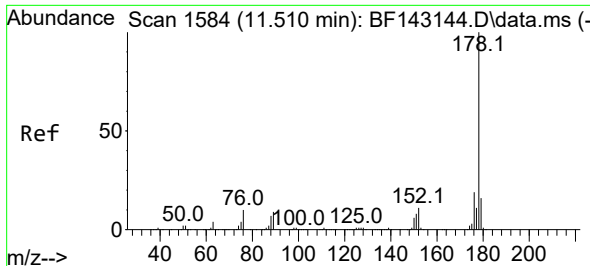
Ion Ratio Lower Upper

188 100

94 9.5 8.3 12.5

80 10.4 9.0 13.6

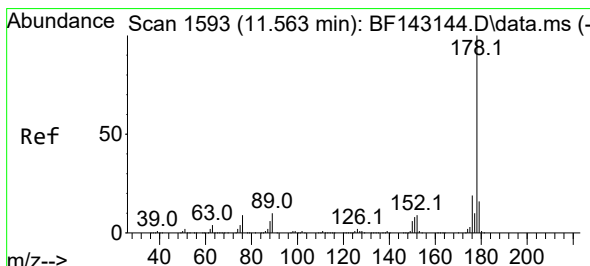
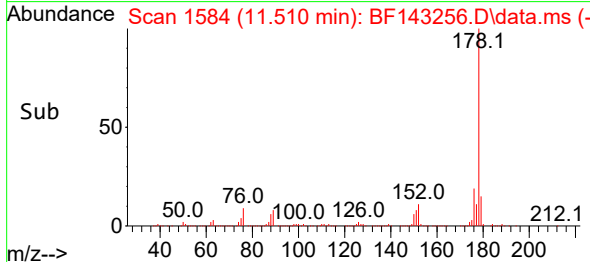
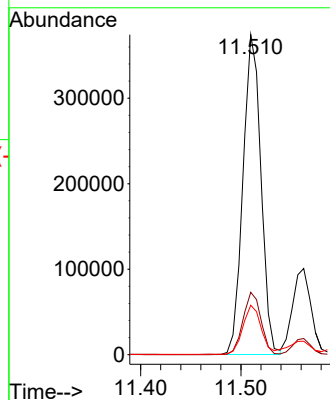
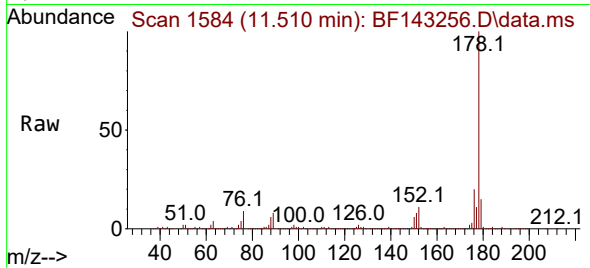




#71
Phenanthrene
Concen: 42.451 ng
RT: 11.510 min Scan# 1584
Delta R.T. -0.000 min
Lab File: BF143256.D
Acq: 25 Jul 2025 17:47

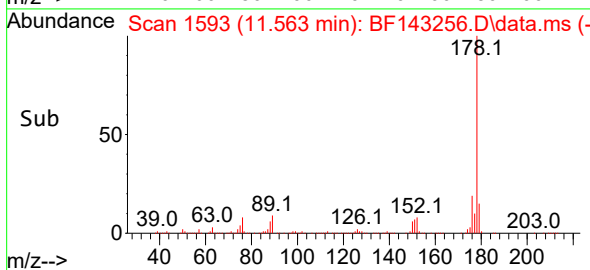
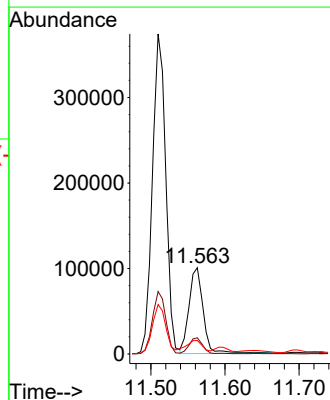
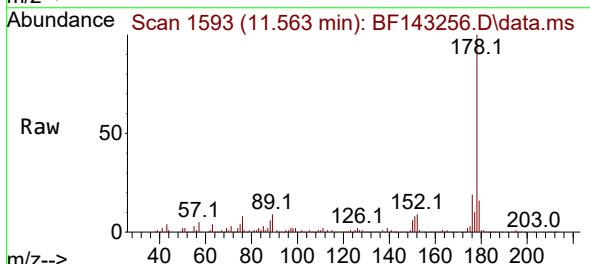
Instrument :
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PL-02-07232025

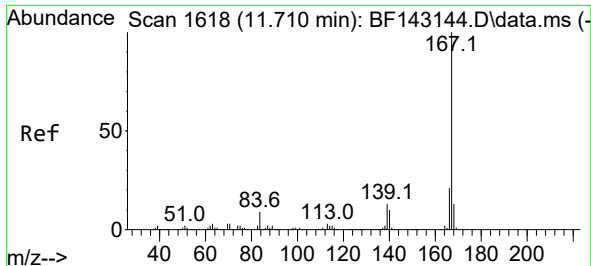
Tgt Ion:178 Resp: 467357
Ion Ratio Lower Upper
178 100
176 19.5 15.3 22.9
179 15.5 12.5 18.7



#72
Anthracene
Concen: 11.934 ng
RT: 11.563 min Scan# 1593
Delta R.T. -0.000 min
Lab File: BF143256.D
Acq: 25 Jul 2025 17:47

Tgt Ion:178 Resp: 133997
Ion Ratio Lower Upper
178 100
176 18.7 15.0 22.4
179 15.6 12.5 18.7

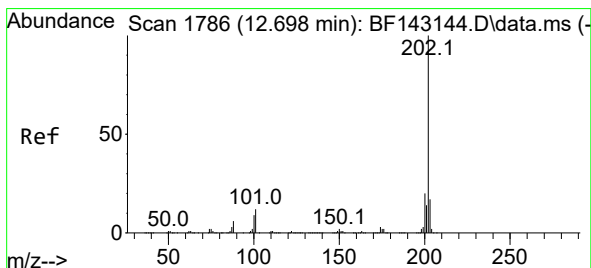
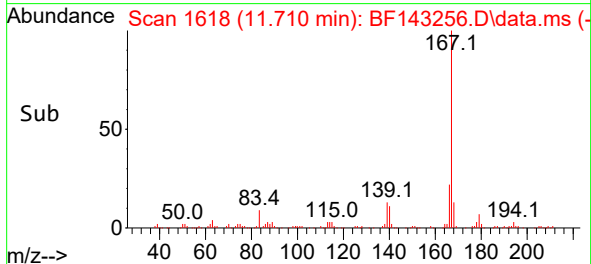
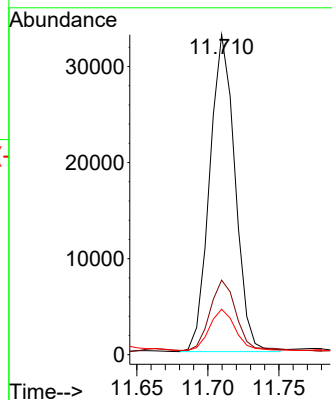
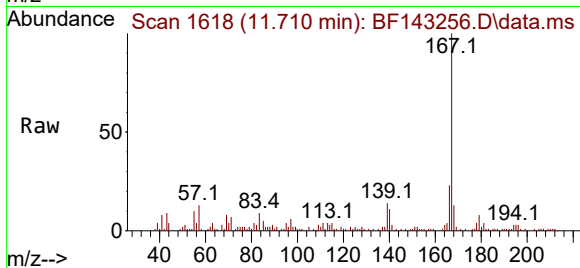




#73
 Carbazole
 Concen: 4.174 ng
 RT: 11.710 min Scan# 1618
 Delta R.T. -0.000 min
 Lab File: BF143256.D
 Acq: 25 Jul 2025 17:47

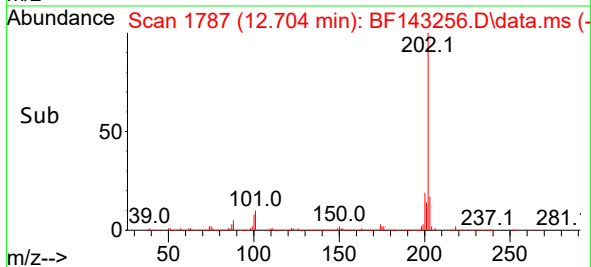
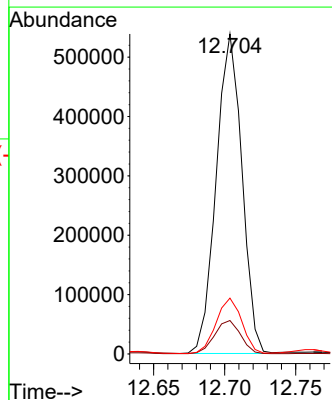
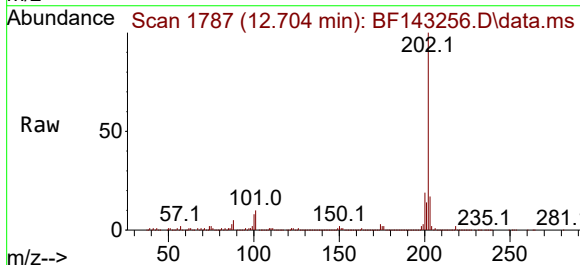
Instrument :
 BNA_F
 ClientSampleId :
 PL-02-07232025

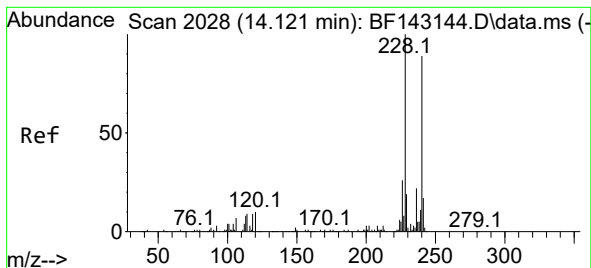
Tgt Ion:167 Resp: 40920
 Ion Ratio Lower Upper
 167 100
 166 23.3 17.0 25.6
 139 14.2 10.0 15.0



#75
 Fluoranthene
 Concen: 67.065 ng
 RT: 12.704 min Scan# 1787
 Delta R.T. 0.006 min
 Lab File: BF143256.D
 Acq: 25 Jul 2025 17:47

Tgt Ion:202 Resp: 677690
 Ion Ratio Lower Upper
 202 100
 101 10.5 0.0 31.7
 203 17.5 0.0 37.4





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.127 min Scan# 2028

Delta R.T. 0.006 min

Lab File: BF143256.D

Acq: 25 Jul 2025 17:47

Instrument :

BNA_F

ClientSampleId :

PL-02-07232025

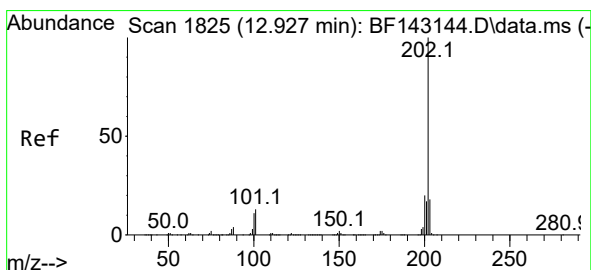
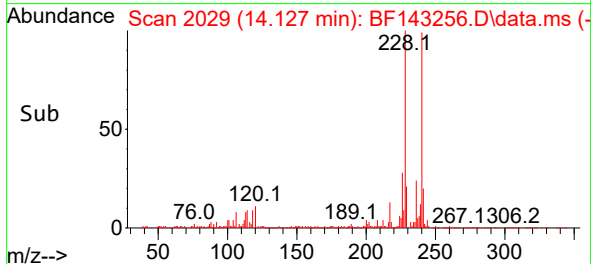
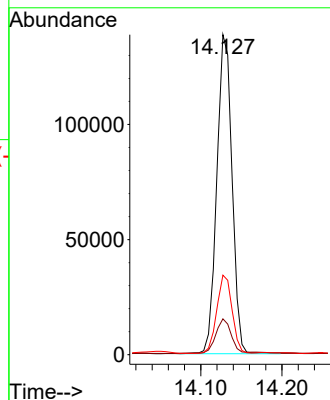
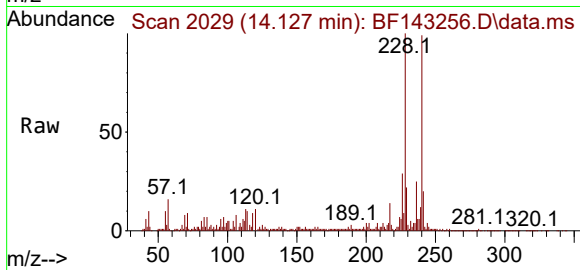
Tgt Ion:240 Resp: 180722

Ion Ratio Lower Upper

240 100

120 11.2 9.4 14.2

236 24.9 20.2 30.4



#78

Pyrene

Concen: 41.617 ng

RT: 12.933 min Scan# 1826

Delta R.T. 0.006 min

Lab File: BF143256.D

Acq: 25 Jul 2025 17:47

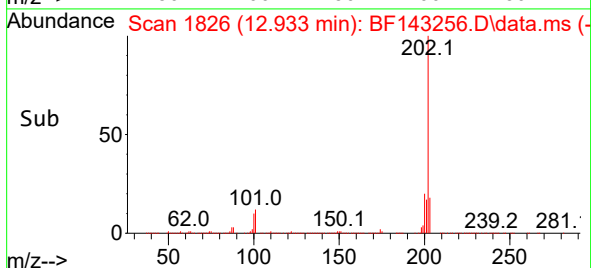
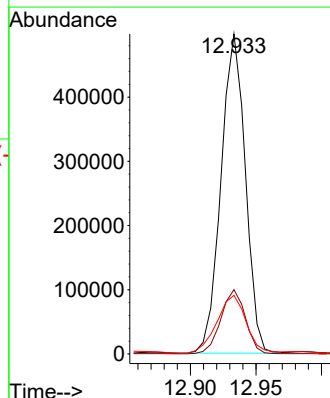
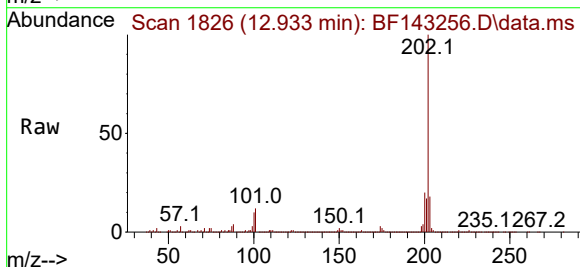
Tgt Ion:202 Resp: 641879

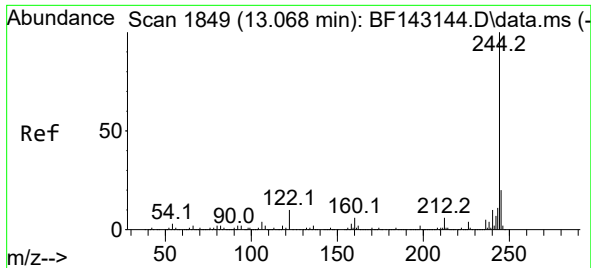
Ion Ratio Lower Upper

202 100

200 20.1 15.7 23.5

203 18.3 14.2 21.2

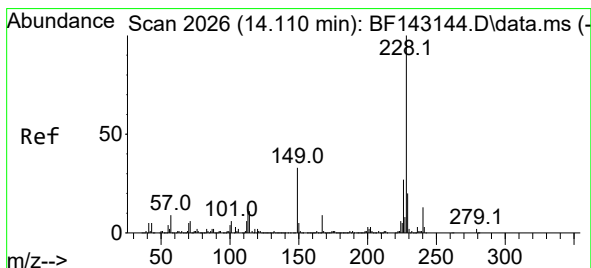
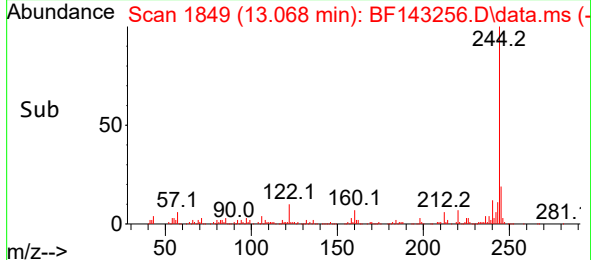
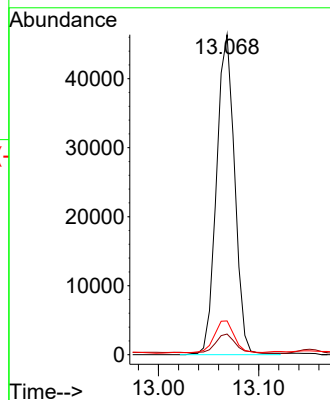
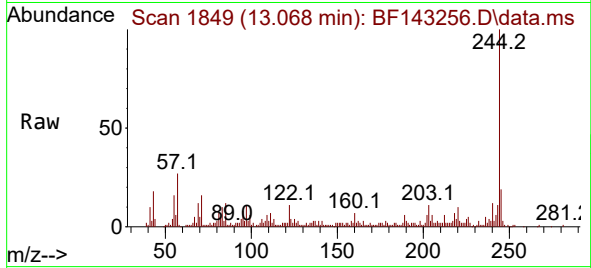




#79
 Terphenyl-d14
 Concen: 4.805 ng
 RT: 13.068 min Scan# 11
 Delta R.T. -0.000 min
 Lab File: BF143256.D
 Acq: 25 Jul 2025 17:47

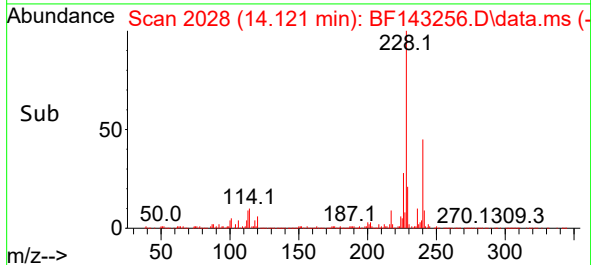
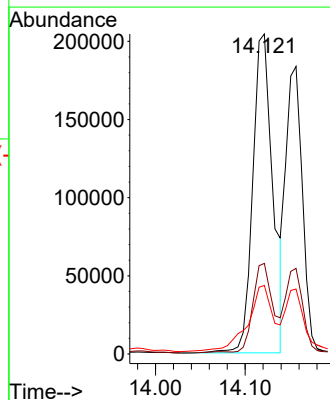
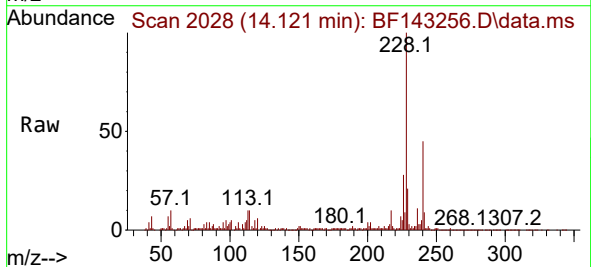
Instrument :
 BNA_F
 ClientSampleId :
 PL-02-07232025

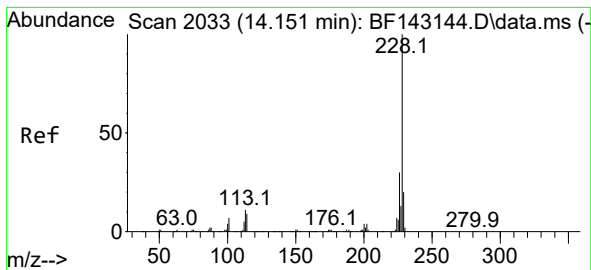
Tgt Ion:244 Resp: 58352
 Ion Ratio Lower Upper
 244 100
 212 6.5 5.2 7.8
 122 10.6 8.2 12.2



#81
 Benzo(a)anthracene
 Concen: 26.175 ng
 RT: 14.121 min Scan# 2028
 Delta R.T. 0.012 min
 Lab File: BF143256.D
 Acq: 25 Jul 2025 17:47

Tgt Ion:228 Resp: 316704
 Ion Ratio Lower Upper
 228 100
 226 28.3 21.7 32.5
 229 21.4 15.8 23.6





#83

Chrysene

Concen: 21.436 ng

RT: 14.157 min Scan# 2033

Delta R.T. 0.006 min

Lab File: BF143256.D

Acq: 25 Jul 2025 17:47

Instrument :

BNA_F

ClientSampleId :

PL-02-07232025

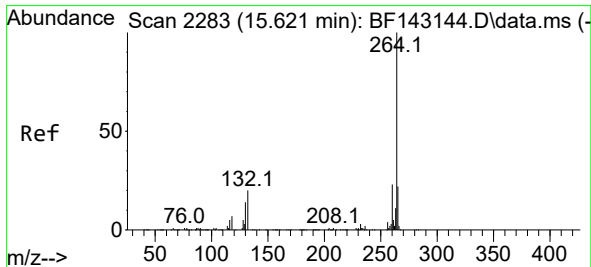
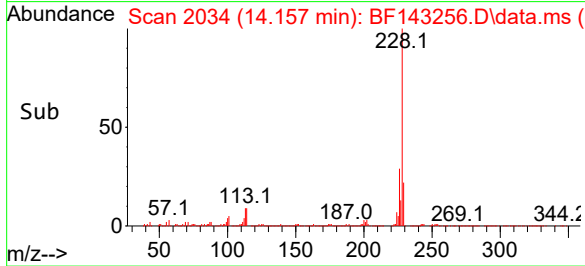
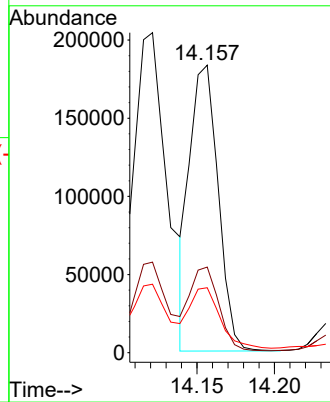
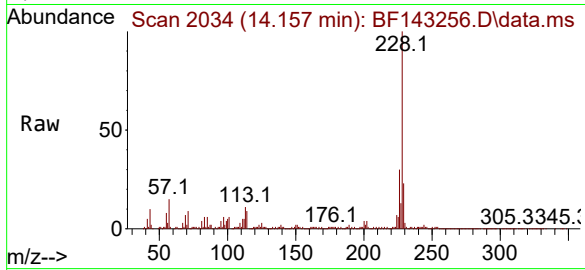
Tgt Ion:228 Resp: 233188

Ion Ratio Lower Upper

228 100

226 29.8 23.8 35.8

229 22.6 15.6 23.4



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.639 min Scan# 2286

Delta R.T. 0.018 min

Lab File: BF143256.D

Acq: 25 Jul 2025 17:47

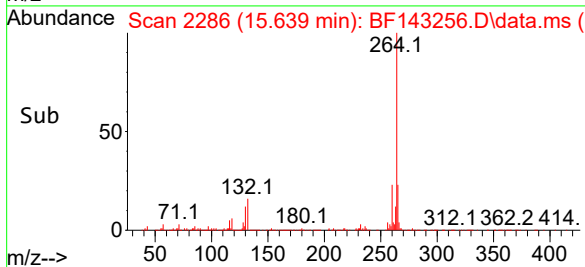
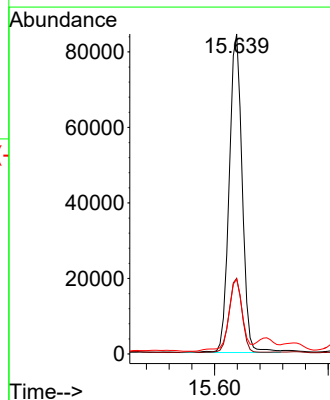
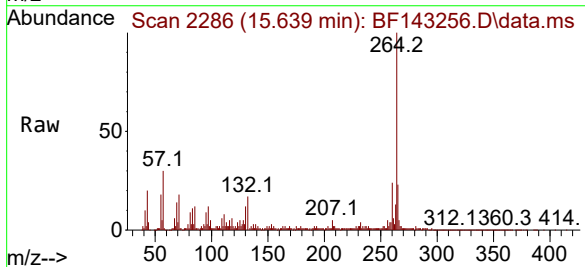
Tgt Ion:264 Resp: 134037

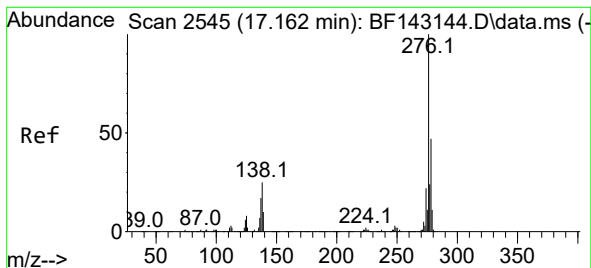
Ion Ratio Lower Upper

264 100

260 23.7 18.5 27.7

265 23.4 17.4 26.2





#87

Indeno(1,2,3-cd)pyrene

Concen: 8.144 ng

RT: 17.174 min Scan# 21

Delta R.T. 0.012 min

Lab File: BF143256.D

Acq: 25 Jul 2025 17:47

Instrument :

BNA_F

ClientSampleId :

PL-02-07232025

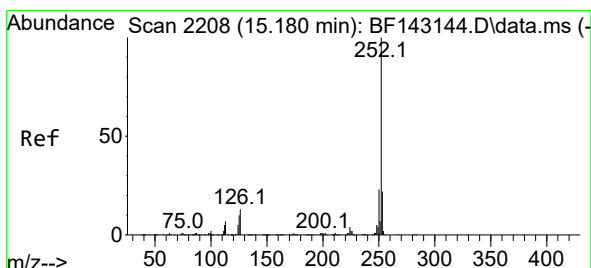
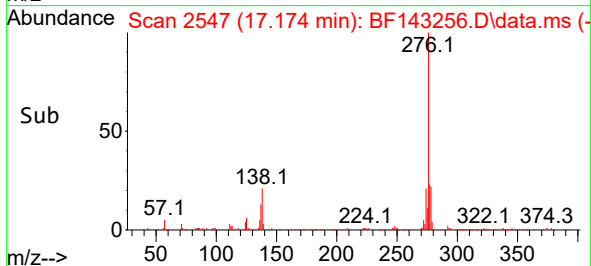
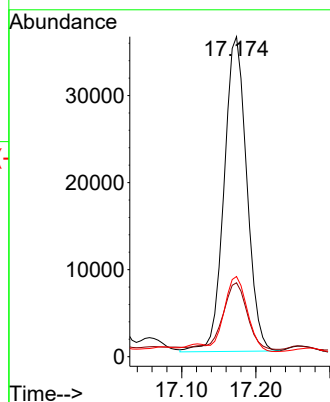
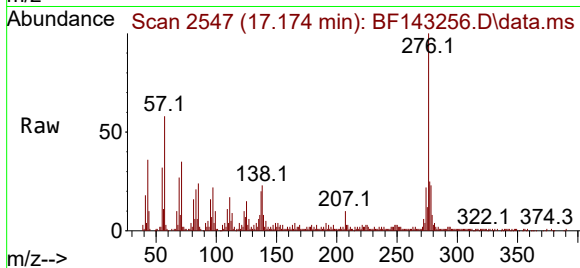
Tgt Ion:276 Resp: 76975

Ion Ratio Lower Upper

276 100

138 22.7 21.8 32.6

277 23.9 20.0 30.0



#88

Benzo(b)fluoranthene

Concen: 26.277 ng m

RT: 15.192 min Scan# 2210

Delta R.T. 0.012 min

Lab File: BF143256.D

Acq: 25 Jul 2025 17:47

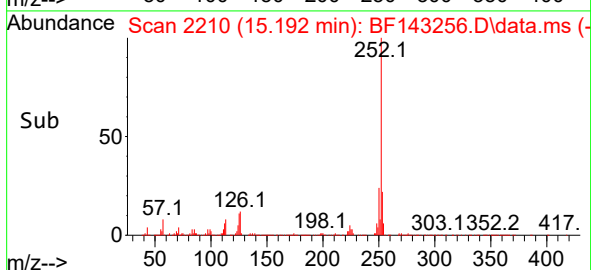
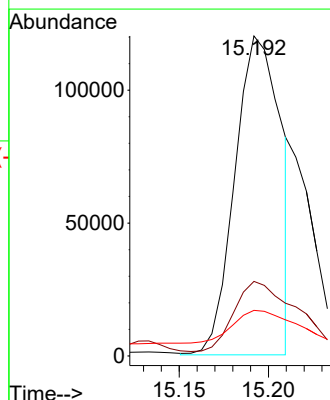
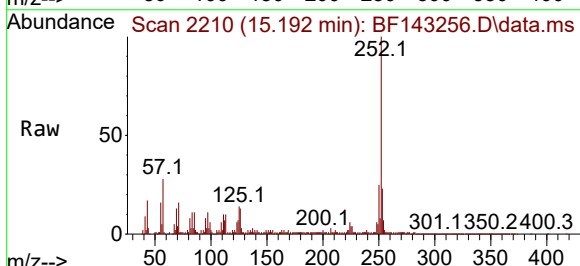
Tgt Ion:252 Resp: 215169

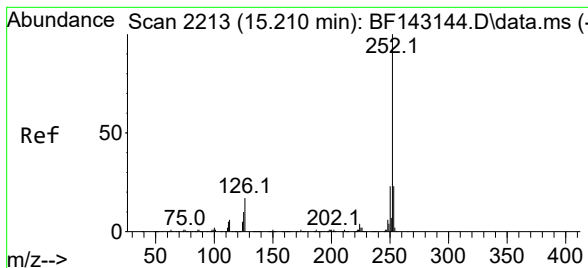
Ion Ratio Lower Upper

252 100

253 23.3 17.5 26.3

125 14.3 8.0 12.0#





#89

Benzo(k)fluoranthene

Concen: 9.865 ng m

RT: 15.209 min Scan# 21

Delta R.T. -0.000 min

Lab File: BF143256.D

Acq: 25 Jul 2025 17:47

Instrument :

BNA_F

ClientSampleId :

PL-02-07232025

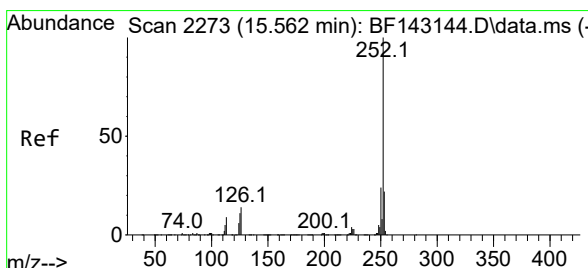
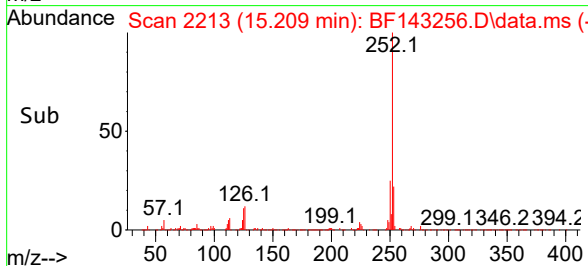
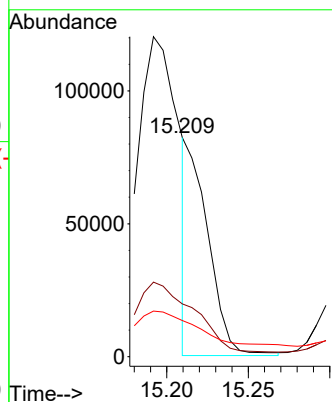
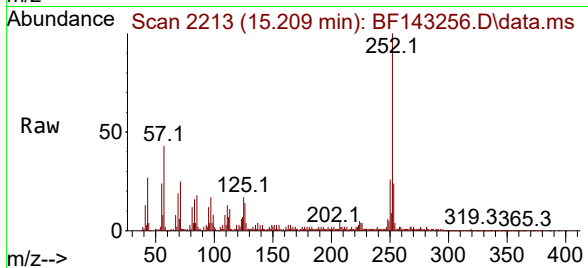
Tgt Ion:252 Resp: 72080

Ion Ratio Lower Upper

252 100

253 24.1 17.8 26.6

125 16.5 8.1 12.1#



#90

Benzo(a)pyrene

Concen: 20.155 ng

RT: 15.574 min Scan# 2275

Delta R.T. 0.012 min

Lab File: BF143256.D

Acq: 25 Jul 2025 17:47

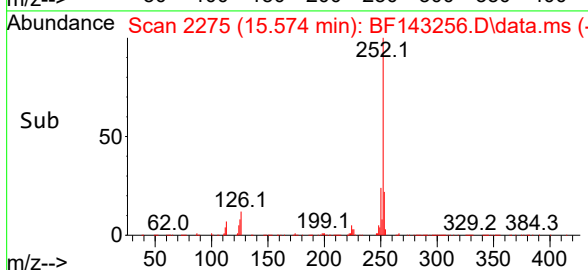
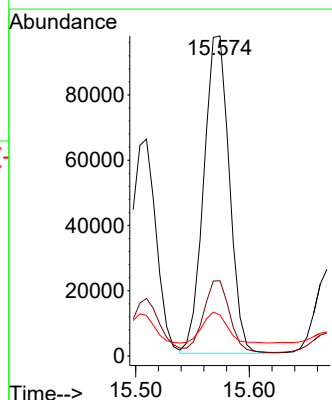
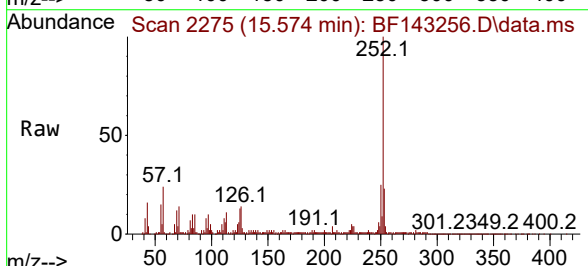
Tgt Ion:252 Resp: 152058

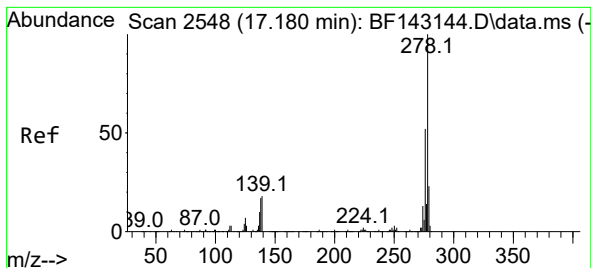
Ion Ratio Lower Upper

252 100

253 23.5 17.3 25.9

125 12.7 8.6 13.0





#91

Dibenzo(a,h)anthracene

Concen: 2.703 ng

RT: 17.186 min Scan# 21

Delta R.T. 0.006 min

Lab File: BF143256.D

Acq: 25 Jul 2025 17:47

Instrument :

BNA_F

ClientSampleId :

PL-02-07232025

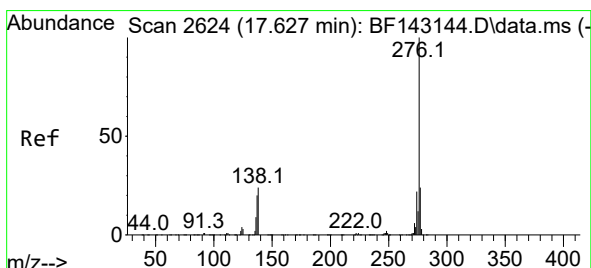
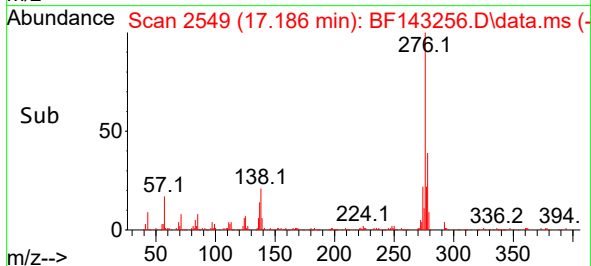
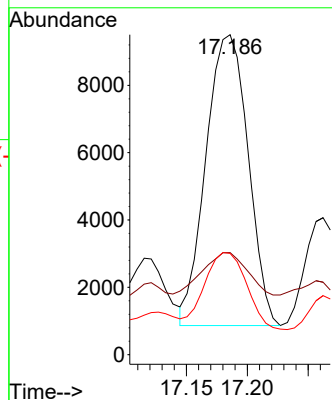
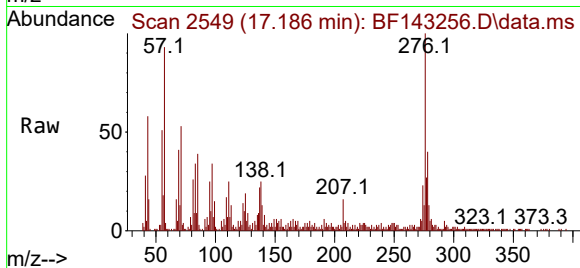
Tgt Ion:278 Resp: 20795

Ion Ratio Lower Upper

278 100

139 31.9 14.1 21.1#

279 31.7 18.6 28.0#



#92

Benzo(g,h,i)perylene

Concen: 9.755 ng

RT: 17.639 min Scan# 2626

Delta R.T. 0.012 min

Lab File: BF143256.D

Acq: 25 Jul 2025 17:47

Tgt Ion:276 Resp: 72594

Ion Ratio Lower Upper

276 100

277 26.0 19.1 28.7

138 23.7 18.9 28.3

