

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF053025\
 Data File : BF142588.D
 Acq On : 31 May 2025 00:10
 Operator : RC/JU
 Sample : Q2152-01 2X
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 OK-02-05292025

Quant Time: May 31 00:59:41 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)

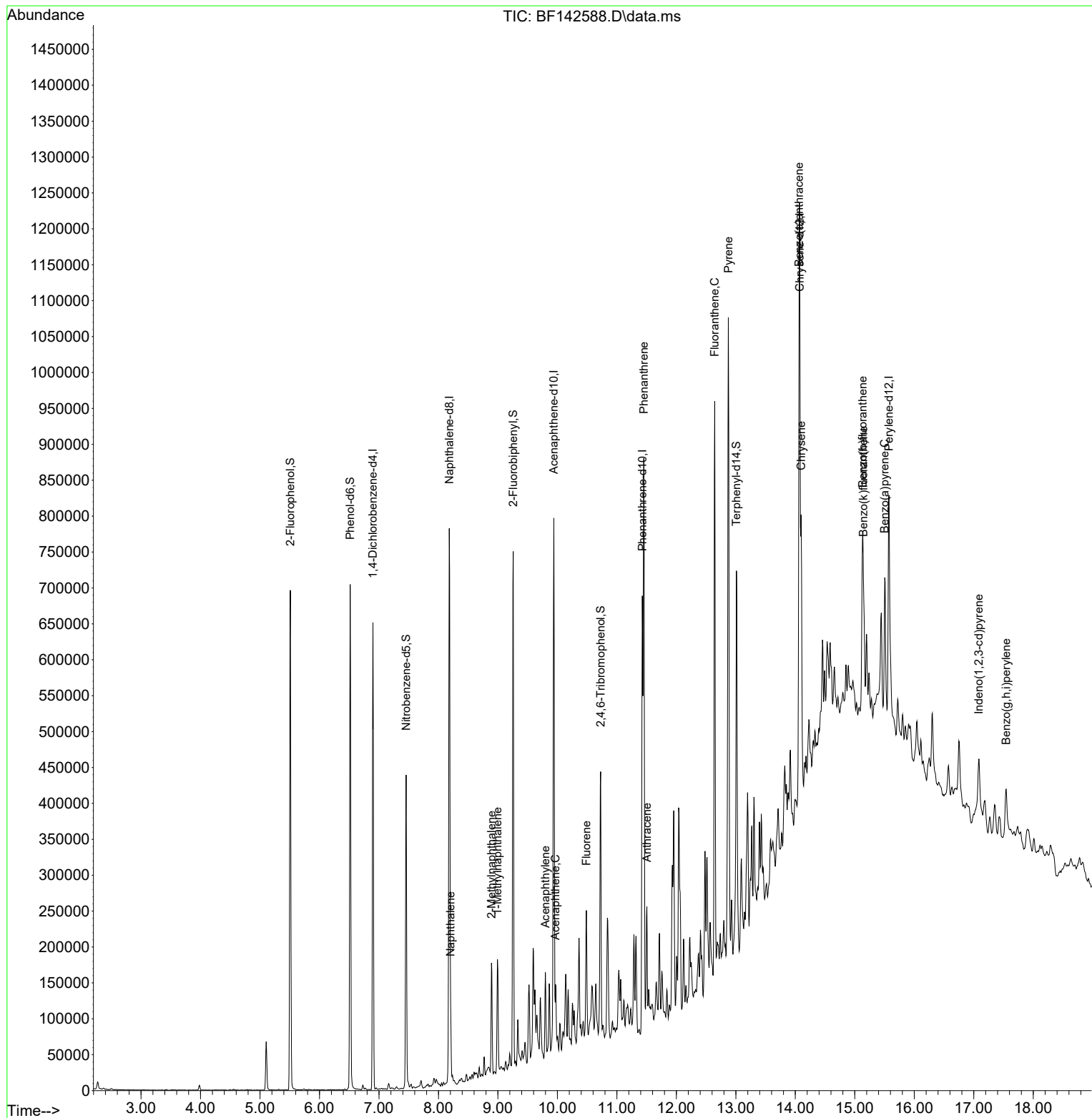
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.898	152	140107	20.000	ng	0.00
21) Naphthalene-d8	8.181	136	493844	20.000	ng	0.00
39) Acenaphthene-d10	9.939	164	218892	20.000	ng	0.00
64) Phenanthrene-d10	11.428	188	316112	20.000	ng	0.00
76) Chrysene-d12	14.074	240	270348	20.000	ng	# 0.00
86) Perylene-d12	15.574	264	194345	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.510	112	264525	31.809	ng	0.00
7) Phenol-d6	6.516	99	313050	31.272	ng	-0.02
23) Nitrobenzene-d5	7.457	82	178568	19.717	ng	-0.02
42) 2,4,6-Tribromophenol	10.728	330	59851	24.636	ng	-0.01
45) 2-Fluorobiphenyl	9.257	172	325975	19.983	ng	-0.01
79) Terphenyl-d14	13.010	244	249000	12.586	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.204	128	55214	2.271	ng	98
37) 2-Methylnaphthalene	8.892	142	62071	4.057	ng	98
38) 1-Methylnaphthalene	8.992	142	58007	3.666	ng	98
49) Acenaphthylene	9.798	152	46119	2.177	ng	# 95
52) Acenaphthene	9.969	154	26093	2.017	ng	97
58) Fluorene	10.486	166	71063	4.941	ng	98
71) Phenanthrene	11.451	178	413465	24.475	ng	100
72) Anthracene	11.504	178	96796	5.614	ng	99
75) Fluoranthene	12.645	202	440962	27.935	ng	98
78) Pyrene	12.875	202	505176	20.031	ng	99
81) Benzo(a)anthracene	14.063	228	242397	13.427	ng	91
83) Chrysene	14.098	228	203333m	12.535	ng	
87) Indeno(1,2,3-cd)pyrene	17.086	276	56713	3.887	ng	99
88) Benzo(b)fluoranthene	15.133	252	151512m	13.172	ng	
89) Benzo(k)fluoranthene	15.145	252	61069m	5.669	ng	
90) Benzo(a)pyrene	15.504	252	120887	11.150	ng	# 92
92) Benzo(g,h,i)perylene	17.545	276	58328	4.928	ng	92

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

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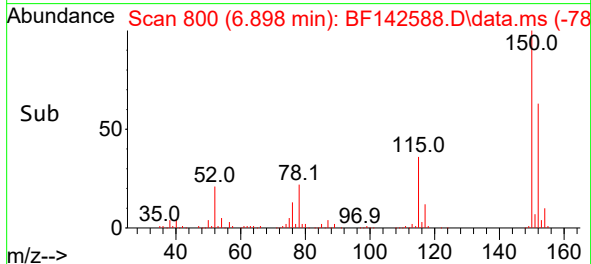
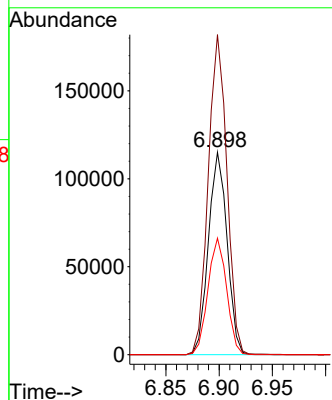
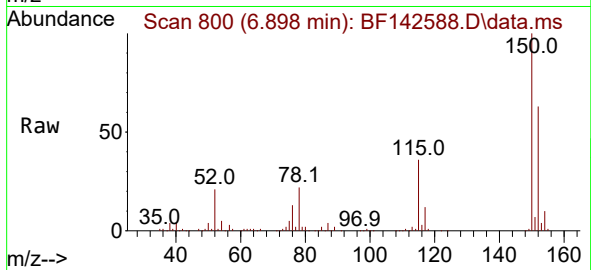




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.898 min Scan# 800
Delta R.T. -0.006 min
Lab File: BF142588.D
Acq: 31 May 2025 00:10

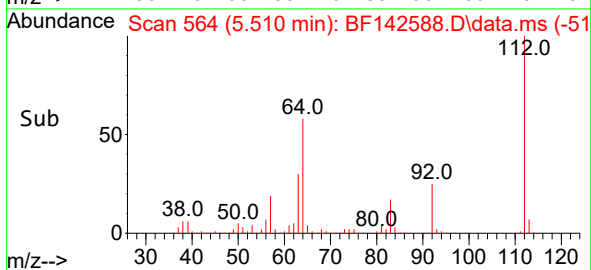
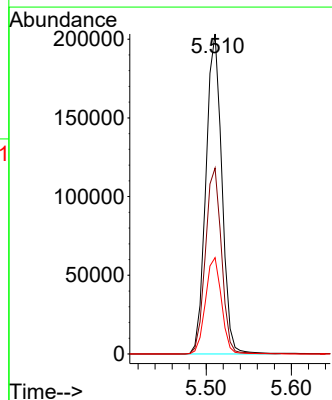
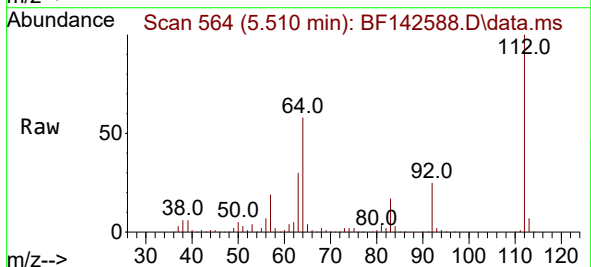
Instrument :
BNA_F
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OK-02-05292025

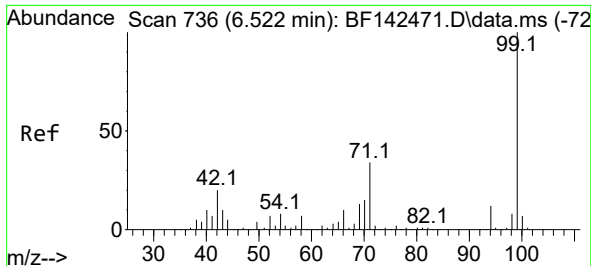
Tgt Ion:152 Resp: 140107
Ion Ratio Lower Upper
152 100
150 158.1 128.2 192.4
115 57.5 48.3 72.5



#5
2-Fluorophenol
Concen: 31.809 ng
RT: 5.510 min Scan# 564
Delta R.T. -0.006 min
Lab File: BF142588.D
Acq: 31 May 2025 00:10

Tgt Ion:112 Resp: 264525
Ion Ratio Lower Upper
112 100
64 58.1 47.5 71.3
63 30.1 24.9 37.3

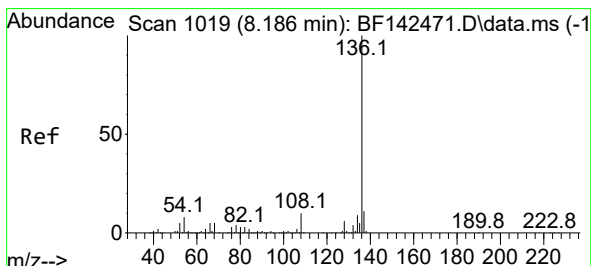
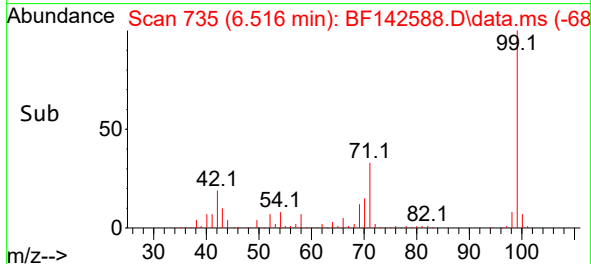
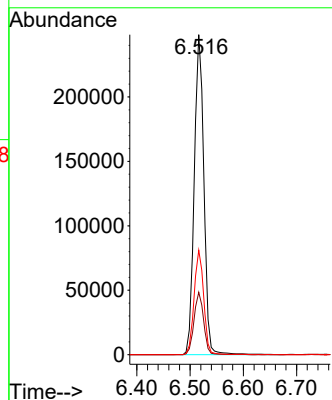
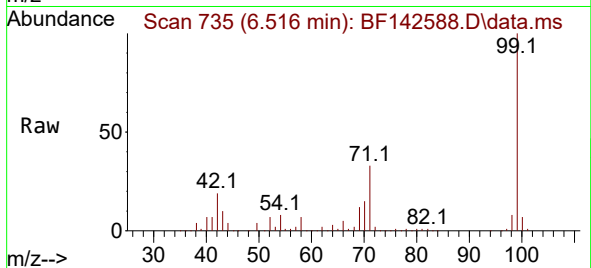




#7
Phenol-d6
Concen: 31.272 ng
RT: 6.516 min Scan# 71
Delta R.T. -0.017 min
Lab File: BF142588.D
Acq: 31 May 2025 00:10

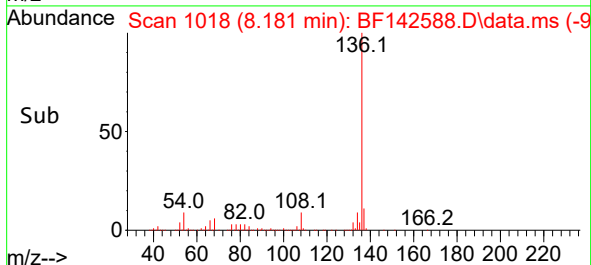
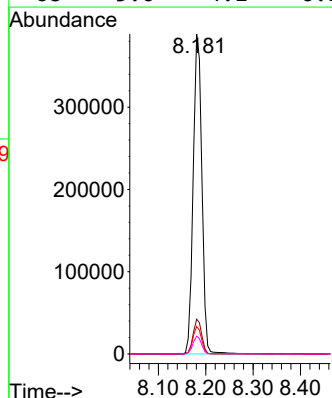
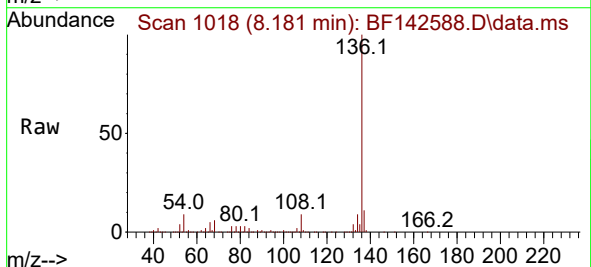
Instrument :
BNA_F
ClientSampleId :
OK-02-05292025

Tgt Ion: 99 Resp: 313050
Ion Ratio Lower Upper
99 100
42 19.5 16.2 24.2
71 32.7 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: BF142588.D
Acq: 31 May 2025 00:10

Tgt Ion: 136 Resp: 493844
Ion Ratio Lower Upper
136 100
137 10.8 8.6 13.0
54 8.6 6.6 10.0
68 5.6 4.1 6.1





#23

Nitrobenzene-d5

Concen: 19.717 ng

RT: 7.457 min Scan# 895

Delta R.T. -0.017 min

Lab File: BF142588.D

Acq: 31 May 2025 00:10

Instrument :

BNA_F

ClientSampleId :

OK-02-05292025

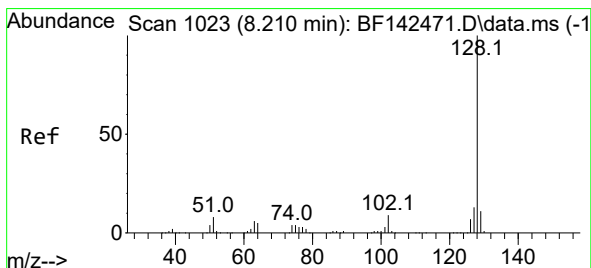
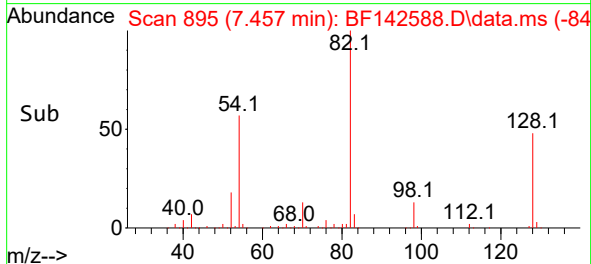
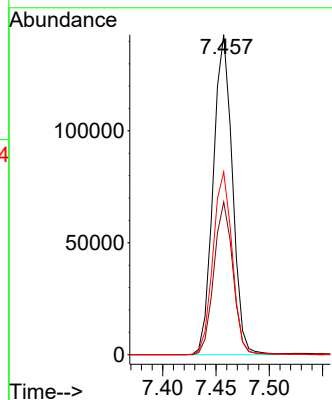
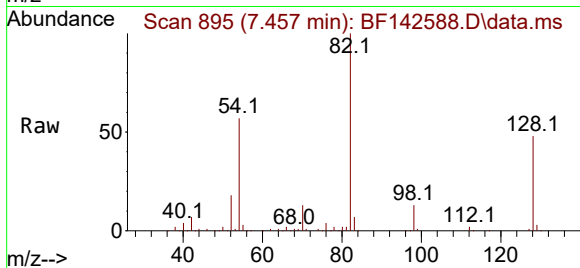
Tgt Ion: 82 Resp: 178568

Ion Ratio Lower Upper

82 100

128 47.7 37.4 56.2

54 57.1 46.6 70.0



#31

Naphthalene

Concen: 2.271 ng

RT: 8.204 min Scan# 1022

Delta R.T. -0.006 min

Lab File: BF142588.D

Acq: 31 May 2025 00:10

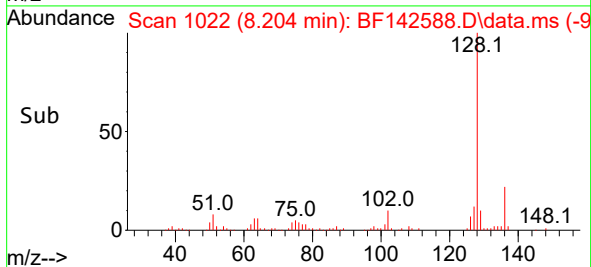
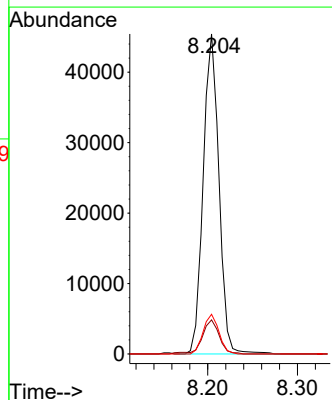
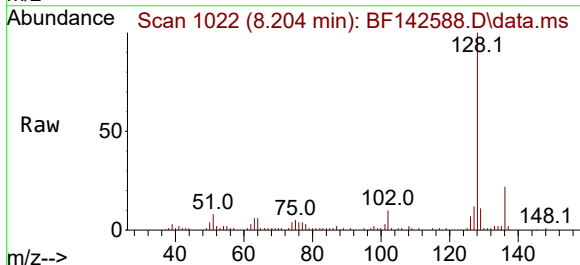
Tgt Ion:128 Resp: 55214

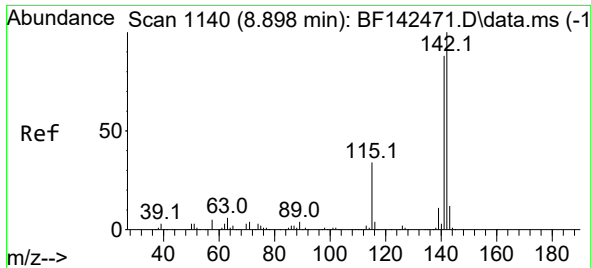
Ion Ratio Lower Upper

128 100

129 10.6 8.9 13.3

127 12.4 10.5 15.7

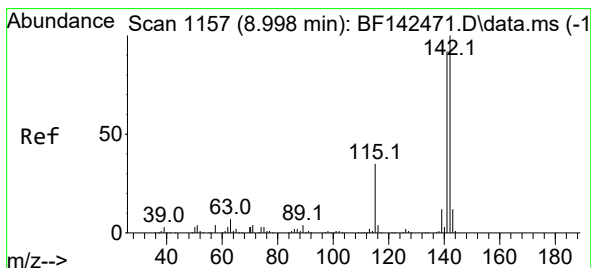
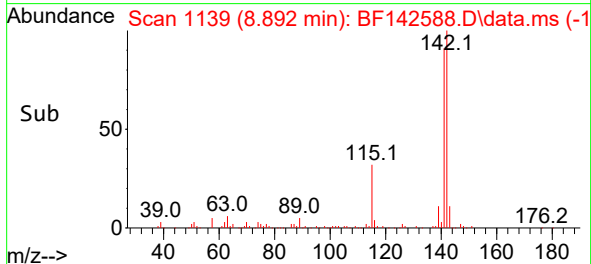
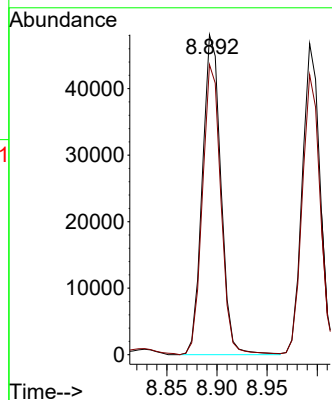
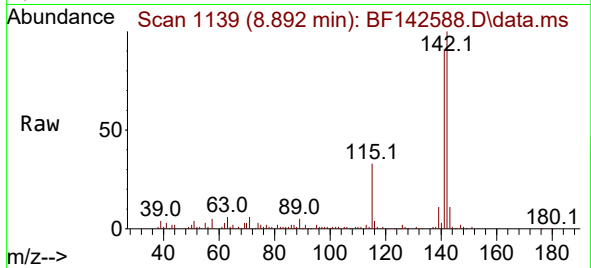




#37
2-Methylnaphthalene
Concen: 4.057 ng
RT: 8.892 min Scan# 1139
Delta R.T. -0.006 min
Lab File: BF142588.D
Acq: 31 May 2025 00:10

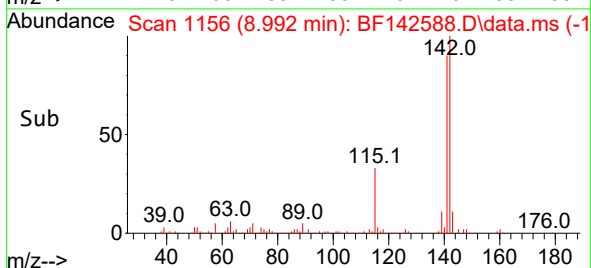
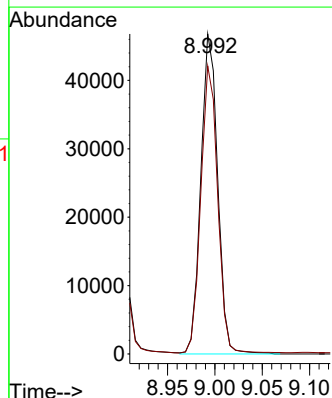
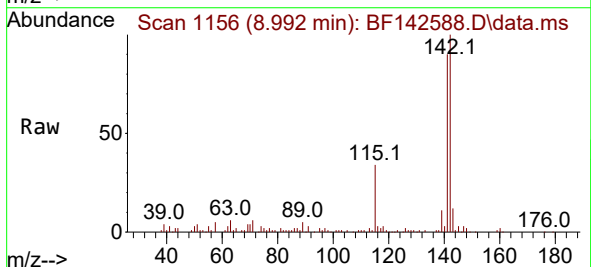
Instrument :
BNA_F
ClientSampleId :
OK-02-05292025

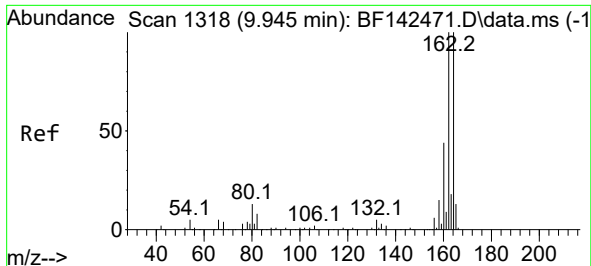
Tgt Ion:142 Resp: 62071
Ion Ratio Lower Upper
142 100
141 90.6 70.7 106.1



#38
1-Methylnaphthalene
Concen: 3.666 ng
RT: 8.992 min Scan# 1156
Delta R.T. -0.006 min
Lab File: BF142588.D
Acq: 31 May 2025 00:10

Tgt Ion:142 Resp: 58007
Ion Ratio Lower Upper
142 100
141 90.0 73.4 110.2

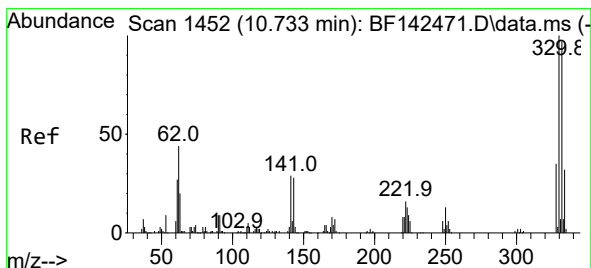
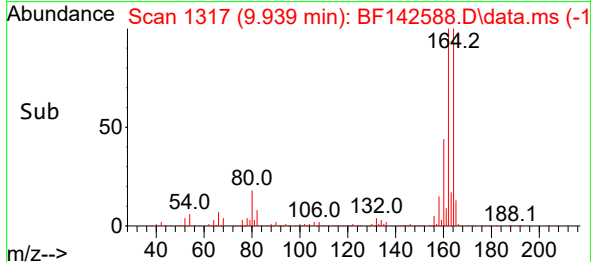
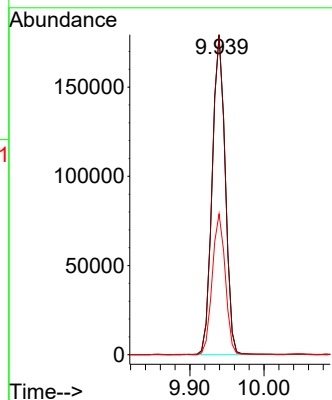
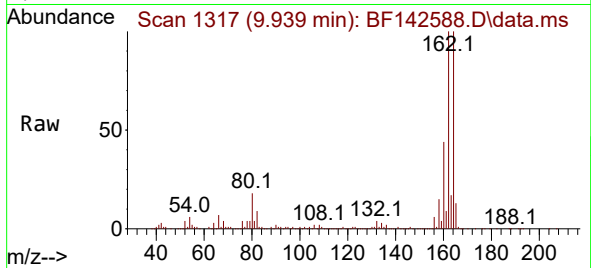




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.939 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF142588.D
Acq: 31 May 2025 00:10

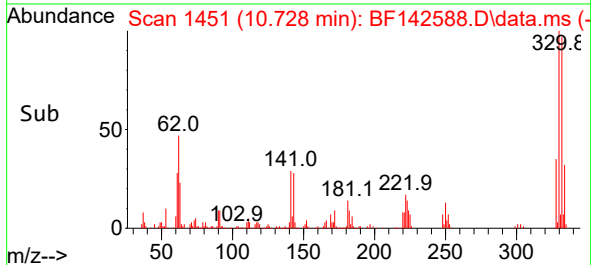
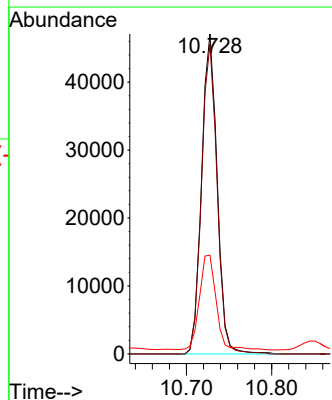
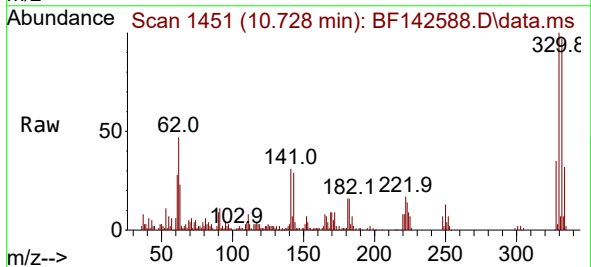
Instrument :
BNA_F
ClientSampleId :
OK-02-05292025

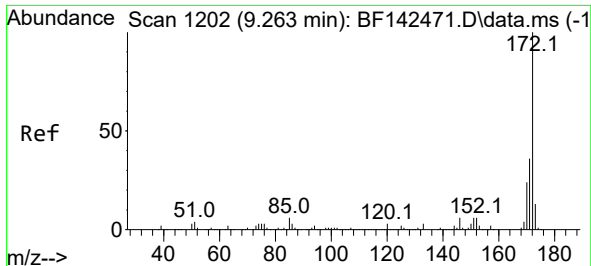
Tgt Ion:164 Resp: 218892
Ion Ratio Lower Upper
164 100
162 99.8 80.2 120.4
160 44.0 35.6 53.4



#42
2,4,6-Tribromophenol
Concen: 24.636 ng
RT: 10.728 min Scan# 1451
Delta R.T. -0.012 min
Lab File: BF142588.D
Acq: 31 May 2025 00:10

Tgt Ion:330 Resp: 59851
Ion Ratio Lower Upper
330 100
332 96.1 77.6 116.4
141 31.8 24.6 36.8





#45

2-Fluorobiphenyl

Concen: 19.983 ng

RT: 9.257 min Scan# 11

Delta R.T. -0.012 min

Lab File: BF142588.D

Acq: 31 May 2025 00:10

Instrument :

BNA_F

ClientSampleId :

OK-02-05292025

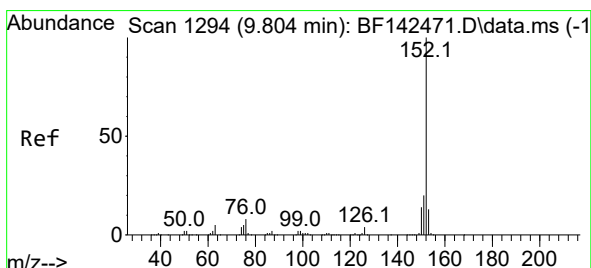
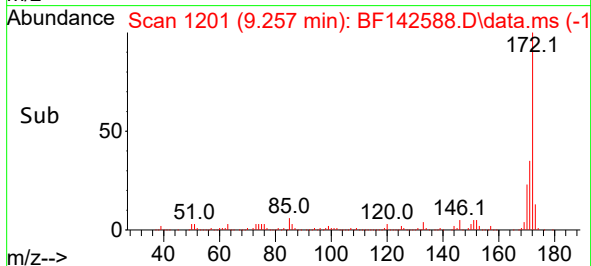
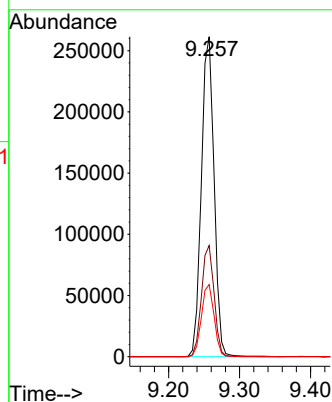
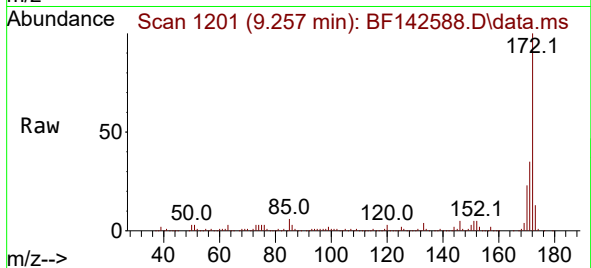
Tgt Ion:172 Resp: 325975

Ion Ratio Lower Upper

172 100

171 34.8 28.6 42.8

170 22.6 18.9 28.3



#49

Acenaphthylene

Concen: 2.177 ng

RT: 9.798 min Scan# 1293

Delta R.T. -0.012 min

Lab File: BF142588.D

Acq: 31 May 2025 00:10

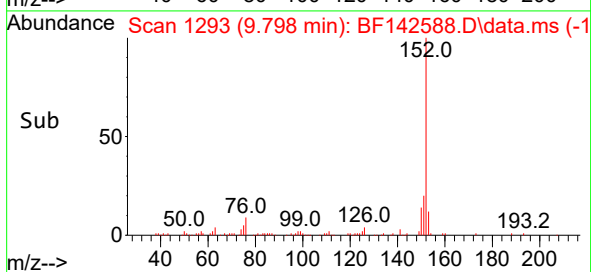
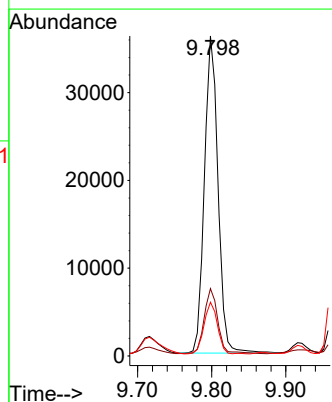
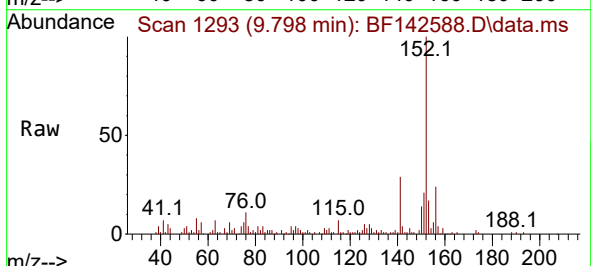
Tgt Ion:152 Resp: 46119

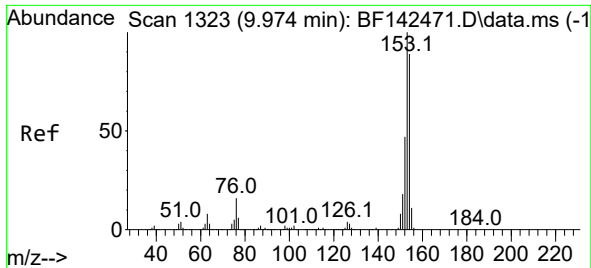
Ion Ratio Lower Upper

152 100

151 21.1 15.8 23.8

153 16.8 10.6 15.8#

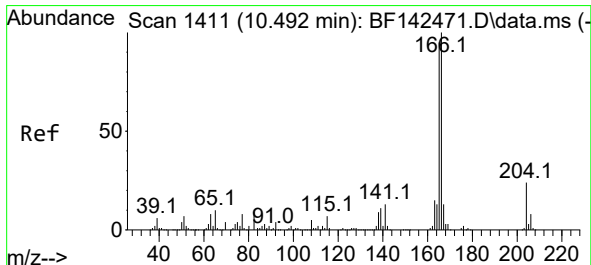
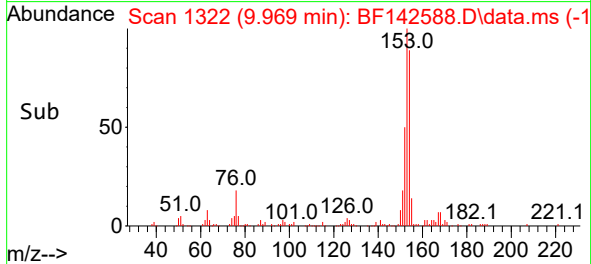
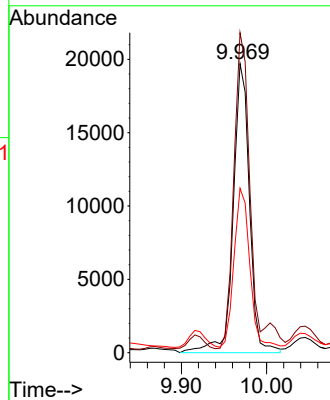
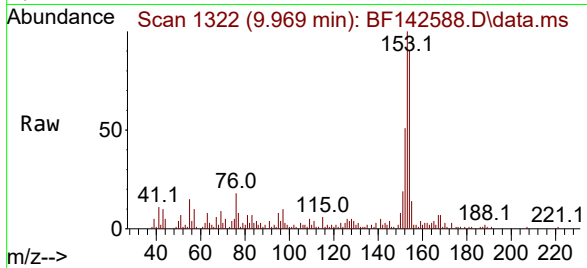




#52
Acenaphthene
Concen: 2.017 ng
RT: 9.969 min Scan# 11
Delta R.T. -0.011 min
Lab File: BF142588.D
Acq: 31 May 2025 00:10

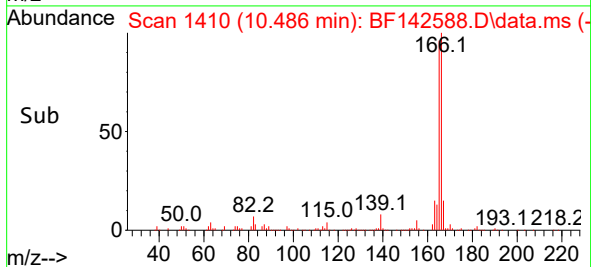
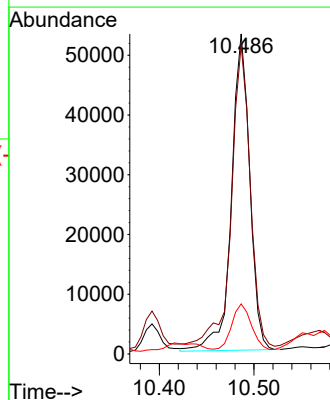
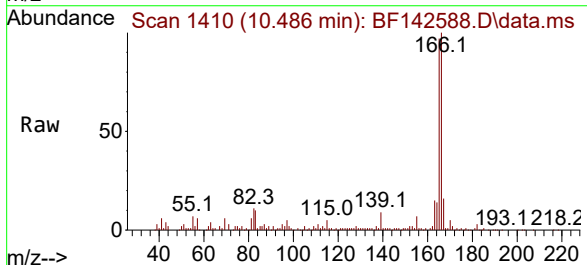
Instrument :
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OK-02-05292025

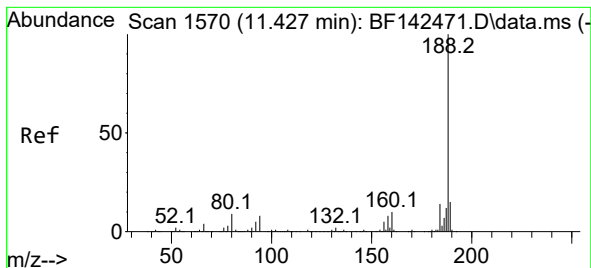
Tgt Ion:154 Resp: 26093
Ion Ratio Lower Upper
154 100
153 110.7 90.0 135.0
152 56.8 42.6 64.0



#58
Fluorene
Concen: 4.941 ng
RT: 10.486 min Scan# 1410
Delta R.T. -0.012 min
Lab File: BF142588.D
Acq: 31 May 2025 00:10

Tgt Ion:166 Resp: 71063
Ion Ratio Lower Upper
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165 96.6 75.8 113.8
167 15.6 10.6 16.0

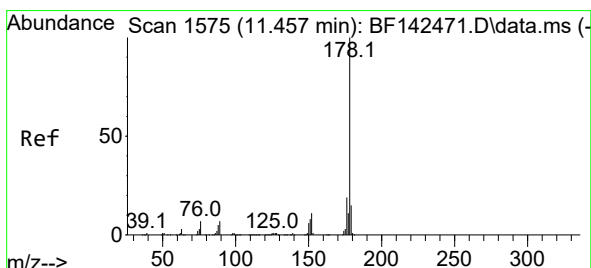
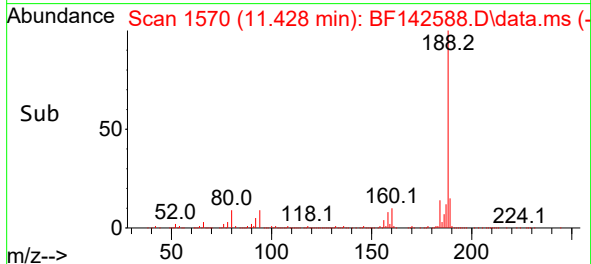
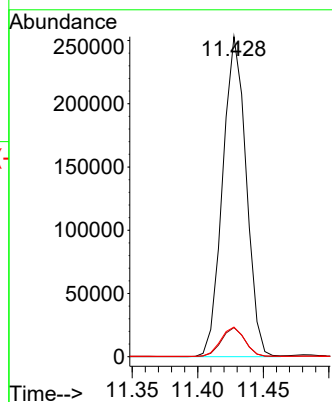
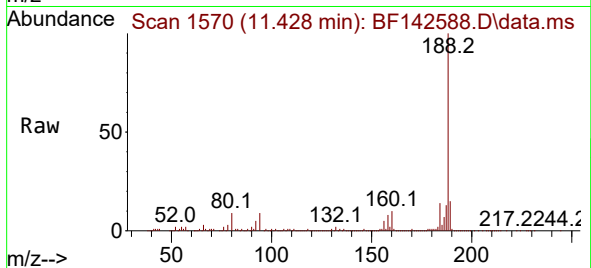




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.428 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF142588.D
Acq: 31 May 2025 00:10

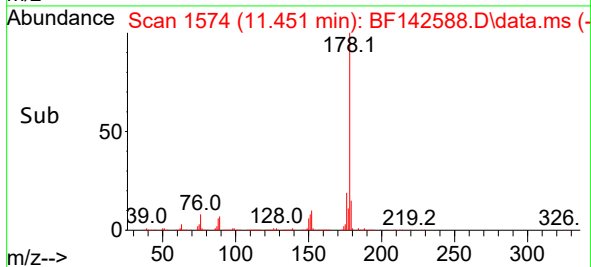
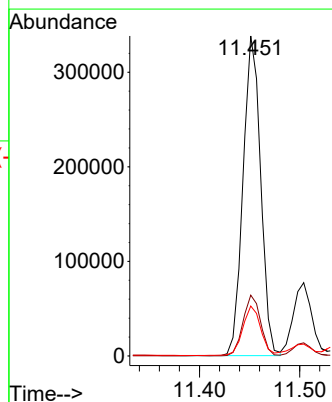
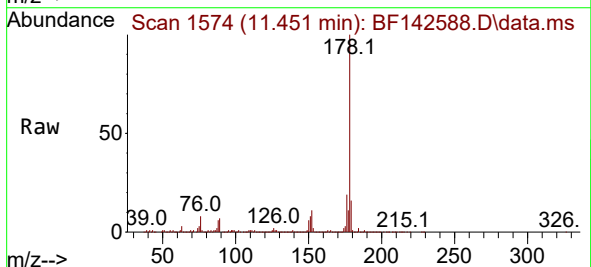
Instrument :
BNA_F
ClientSampleId :
OK-02-05292025

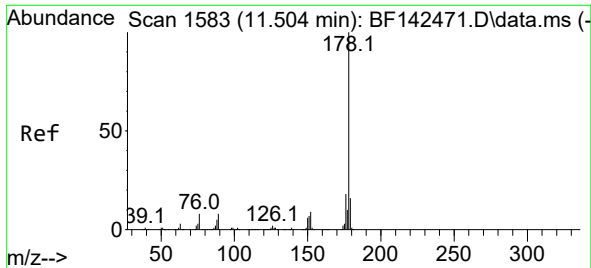
Tgt Ion:188 Resp: 316112
Ion Ratio Lower Upper
188 100
94 9.1 6.6 10.0
80 9.2 7.4 11.0



#71
Phenanthrene
Concen: 24.475 ng
RT: 11.451 min Scan# 1574
Delta R.T. -0.006 min
Lab File: BF142588.D
Acq: 31 May 2025 00:10

Tgt Ion:178 Resp: 413465
Ion Ratio Lower Upper
178 100
176 19.0 15.4 23.0
179 15.6 12.3 18.5

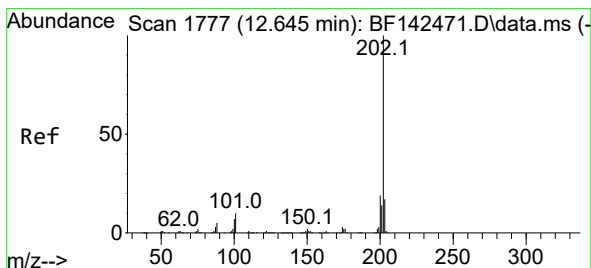
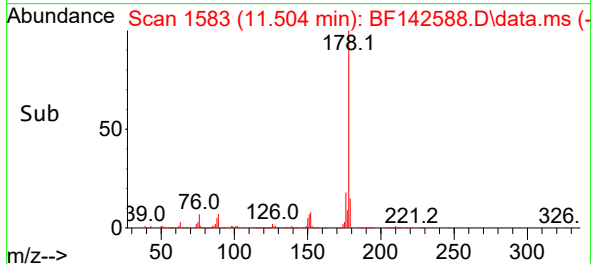
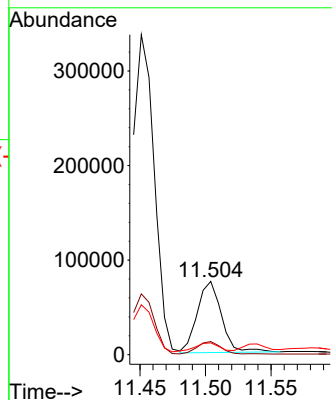
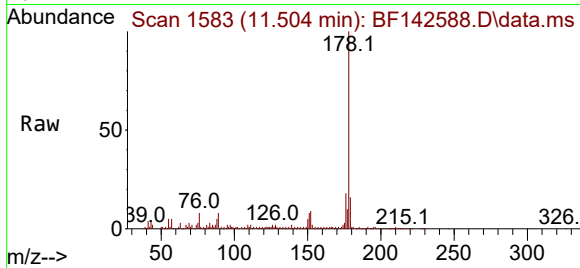




#72
 Anthracene
 Concen: 5.614 ng
 RT: 11.504 min Scan# 11
 Delta R.T. -0.006 min
 Lab File: BF142588.D
 Acq: 31 May 2025 00:10

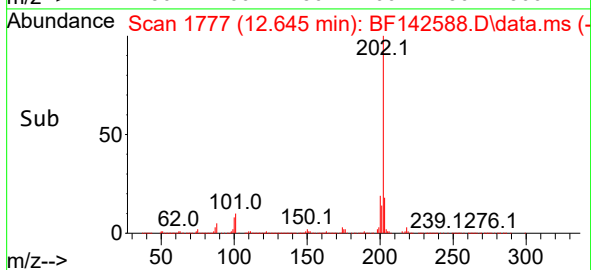
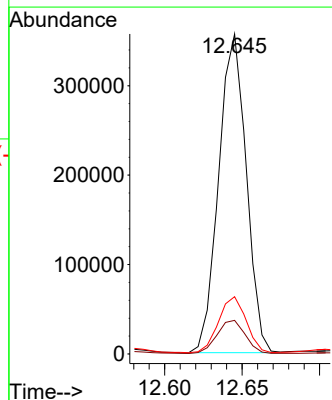
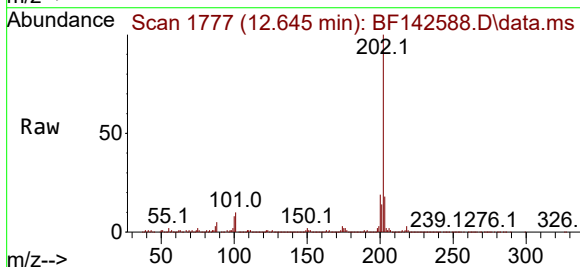
Instrument :
 BNA_F
 ClientSampleId :
 OK-02-05292025

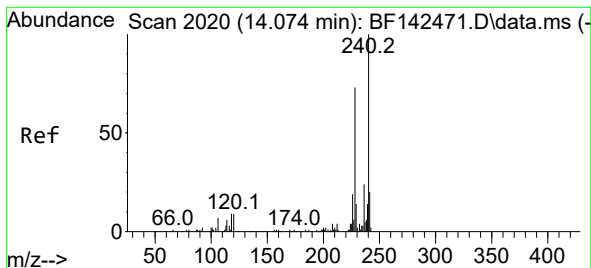
Tgt Ion:178 Resp: 96796
 Ion Ratio Lower Upper
 178 100
 176 18.0 14.6 21.8
 179 16.1 12.4 18.6



#75
 Fluoranthene
 Concen: 27.935 ng
 RT: 12.645 min Scan# 1777
 Delta R.T. 0.000 min
 Lab File: BF142588.D
 Acq: 31 May 2025 00:10

Tgt Ion:202 Resp: 440962
 Ion Ratio Lower Upper
 202 100
 101 10.5 0.0 29.6
 203 17.9 0.0 37.2





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.074 min Scan# 20

Delta R.T. 0.000 min

Lab File: BF142588.D

Acq: 31 May 2025 00:10

Instrument :

BNA_F

ClientSampleId :

OK-02-05292025

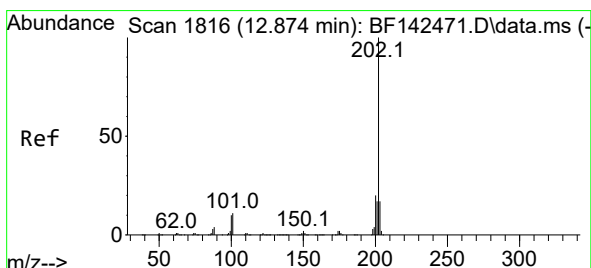
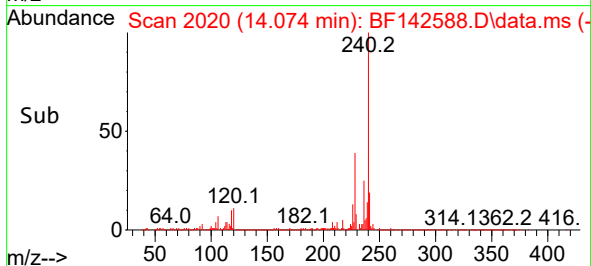
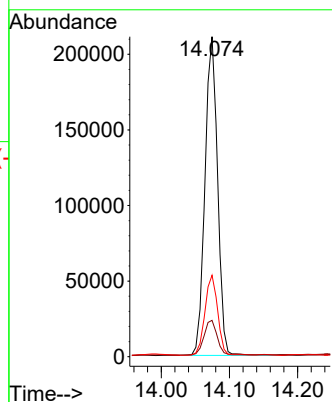
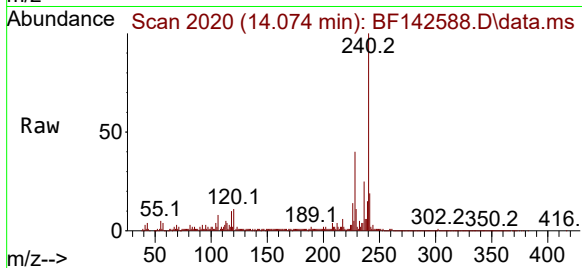
Tgt Ion:240 Resp: 270348

Ion Ratio Lower Upper

240 100

120 11.4 7.5 11.3#

236 25.5 19.6 29.4



#78

Pyrene

Concen: 20.031 ng

RT: 12.875 min Scan# 1816

Delta R.T. 0.000 min

Lab File: BF142588.D

Acq: 31 May 2025 00:10

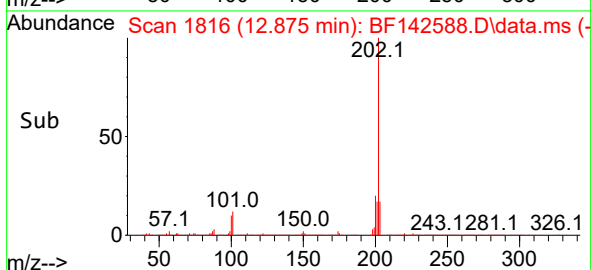
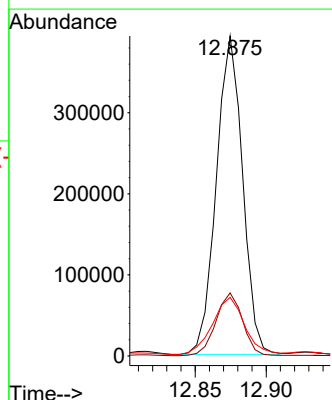
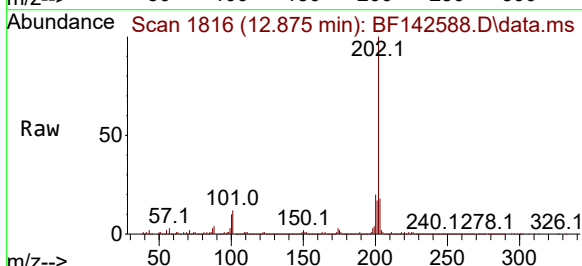
Tgt Ion:202 Resp: 505176

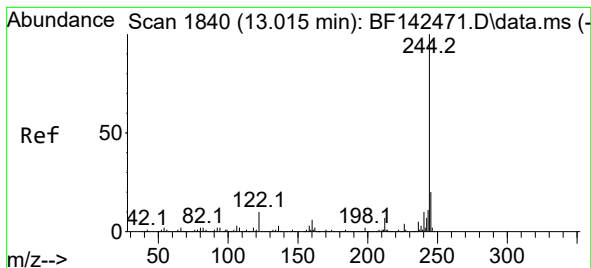
Ion Ratio Lower Upper

202 100

200 19.7 16.1 24.1

203 18.3 13.9 20.9





#79

Terphenyl-d14

Concen: 12.586 ng

RT: 13.010 min Scan# 1840

Delta R.T. -0.006 min

Lab File: BF142588.D

Acq: 31 May 2025 00:10

Instrument :

BNA_F

ClientSampleId :

OK-02-05292025

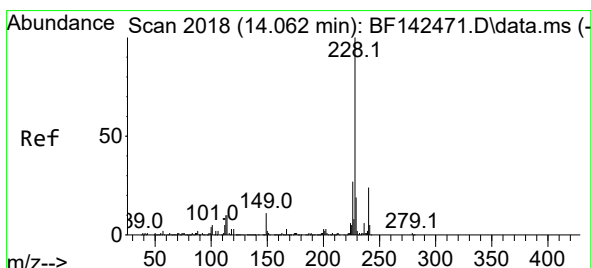
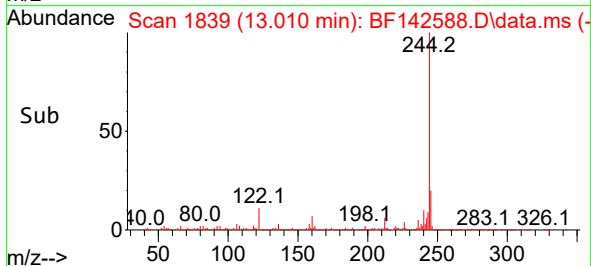
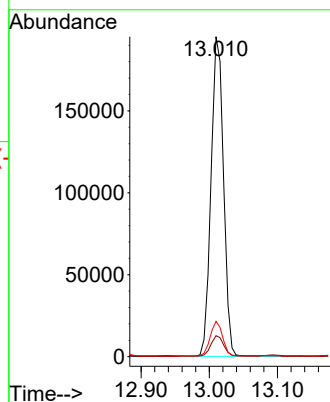
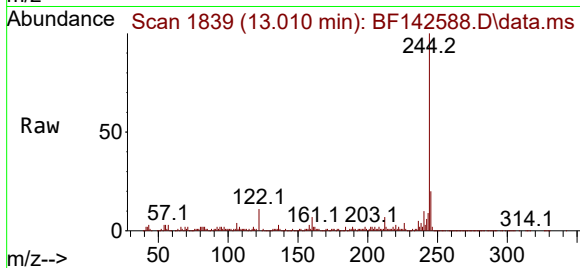
Tgt Ion:244 Resp: 249000

Ion Ratio Lower Upper

244 100

212 6.6 5.3 7.9

122 11.1 8.2 12.2



#81

Benzo(a)anthracene

Concen: 13.427 ng

RT: 14.063 min Scan# 2018

Delta R.T. 0.000 min

Lab File: BF142588.D

Acq: 31 May 2025 00:10

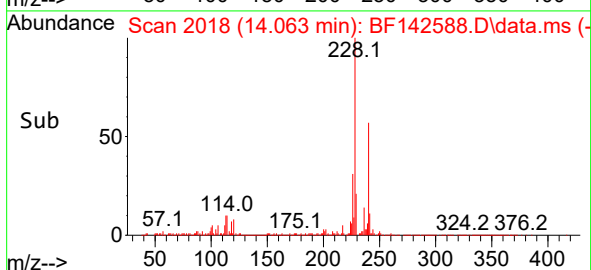
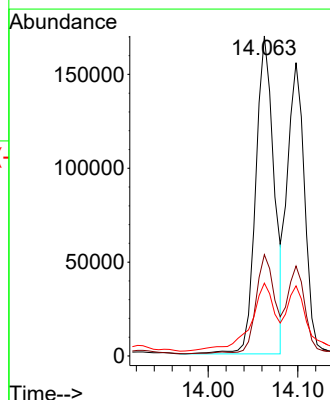
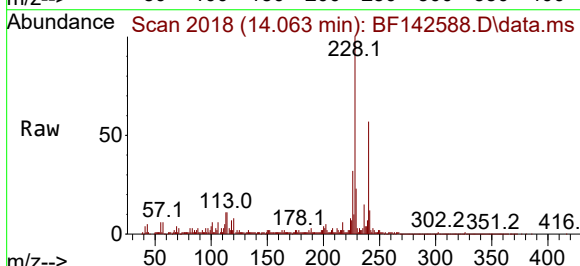
Tgt Ion:228 Resp: 242397

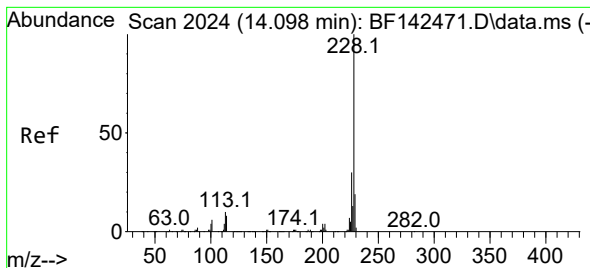
Ion Ratio Lower Upper

228 100

226 31.7 21.2 31.8

229 22.7 15.5 23.3





#83

Chrysene

Concen: 12.535 ng m

RT: 14.098 min Scan# 20

Delta R.T. -0.006 min

Lab File: BF142588.D

Acq: 31 May 2025 00:10

Instrument :

BNA_F

ClientSampleId :

OK-02-05292025

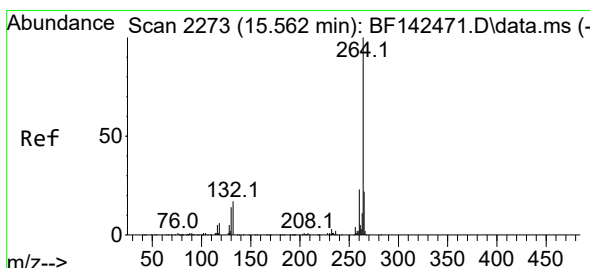
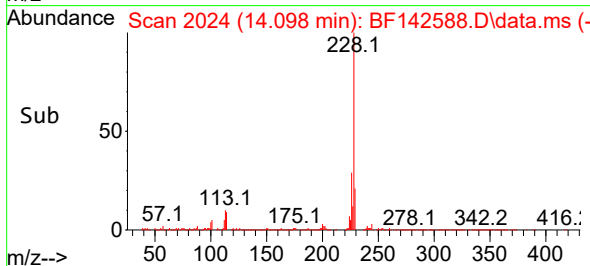
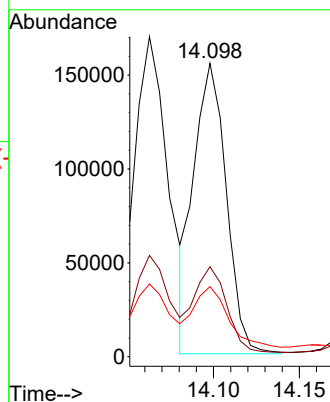
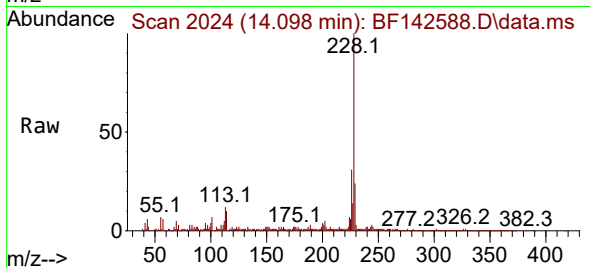
Tgt Ion:228 Resp: 203333

Ion Ratio Lower Upper

228 100

226 30.6 23.8 35.6

229 23.9 15.4 23.2#



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.574 min Scan# 2275

Delta R.T. 0.006 min

Lab File: BF142588.D

Acq: 31 May 2025 00:10

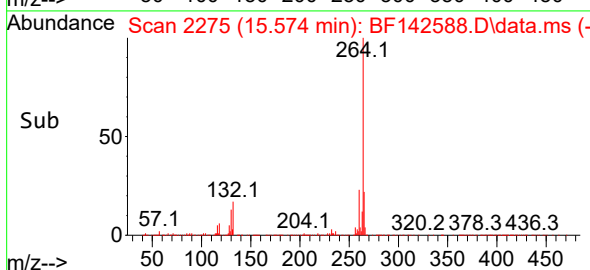
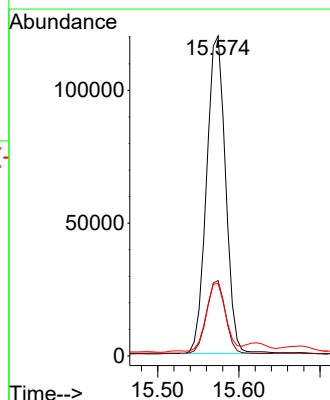
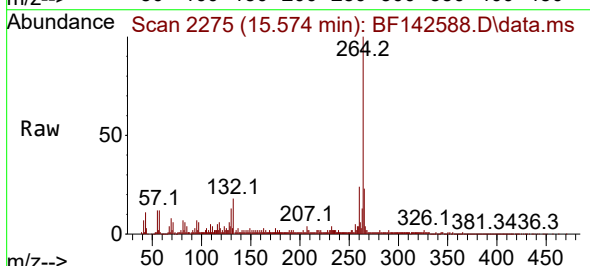
Tgt Ion:264 Resp: 194345

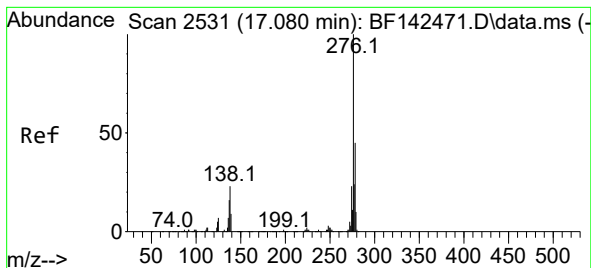
Ion Ratio Lower Upper

264 100

260 23.5 18.6 28.0

265 22.6 17.7 26.5





#87

Indeno(1,2,3-cd)pyrene

Concen: 3.887 ng

RT: 17.086 min Scan# 21

Delta R.T. -0.006 min

Lab File: BF142588.D

Acq: 31 May 2025 00:10

Instrument :

BNA_F

ClientSampleId :

OK-02-05292025

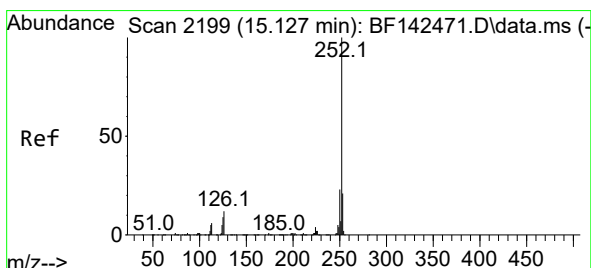
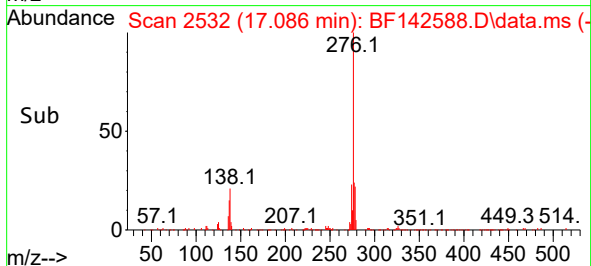
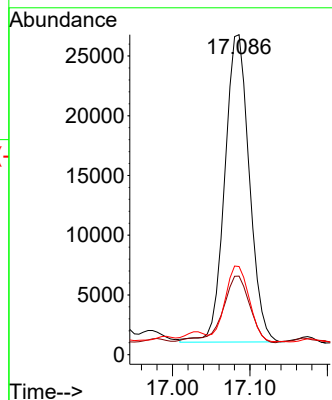
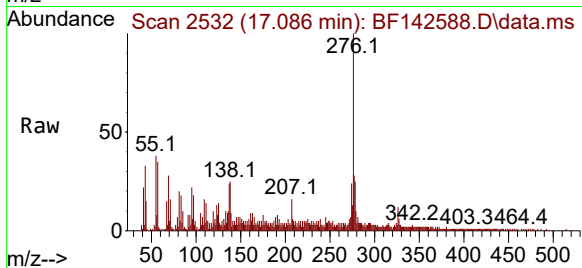
Tgt Ion:276 Resp: 56713

Ion Ratio Lower Upper

276 100

138 24.2 19.9 29.9

277 24.5 20.2 30.2



#88

Benzo(b)fluoranthene

Concen: 13.172 ng m

RT: 15.133 min Scan# 2200

Delta R.T. 0.006 min

Lab File: BF142588.D

Acq: 31 May 2025 00:10

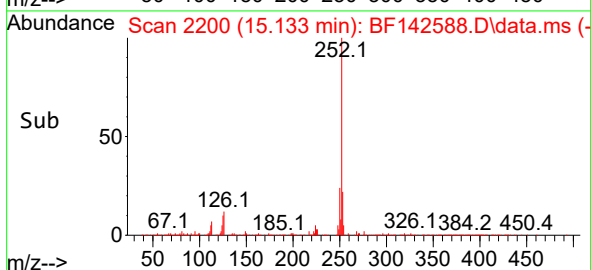
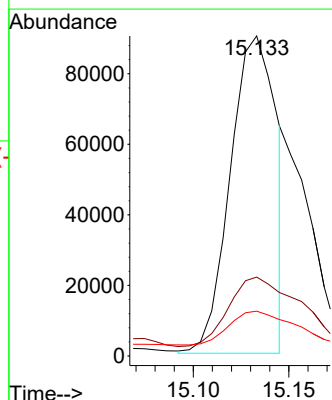
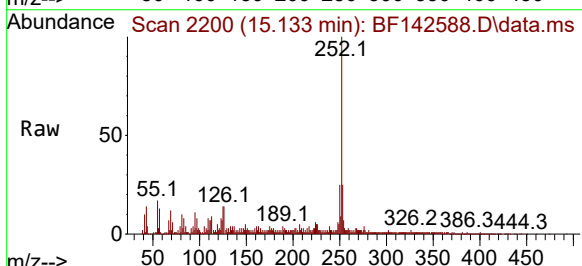
Tgt Ion:252 Resp: 151512

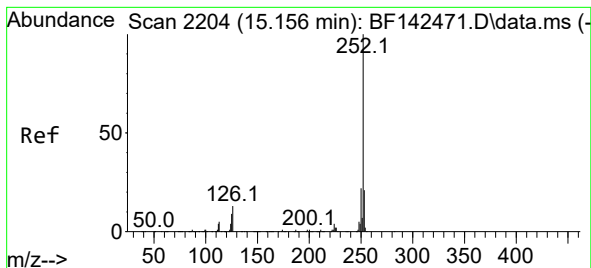
Ion Ratio Lower Upper

252 100

253 24.7 17.0 25.4

125 14.0 7.4 11.0#





#89

Benzo(k)fluoranthene

Concen: 5.669 ng m

RT: 15.145 min Scan# 2204

Delta R.T. -0.017 min

Lab File: BF142588.D

Acq: 31 May 2025 00:10

Instrument :

BNA_F

ClientSampleId :

OK-02-05292025

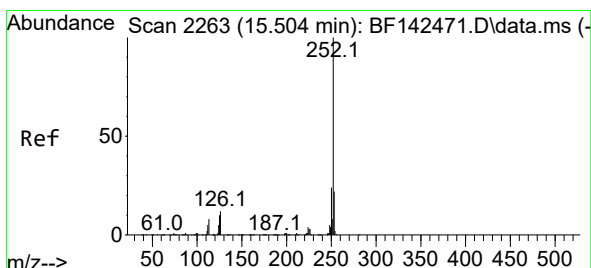
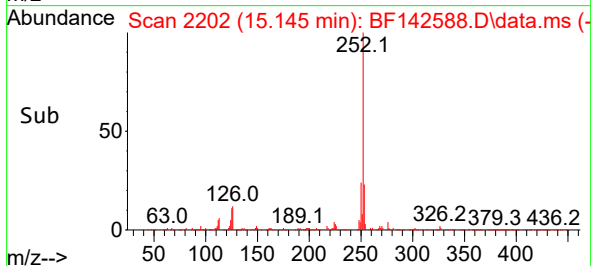
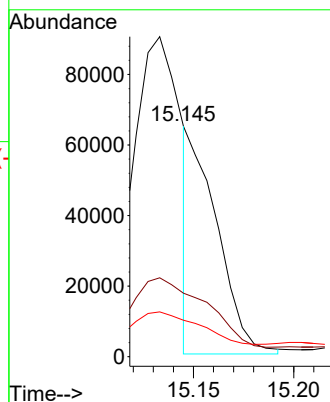
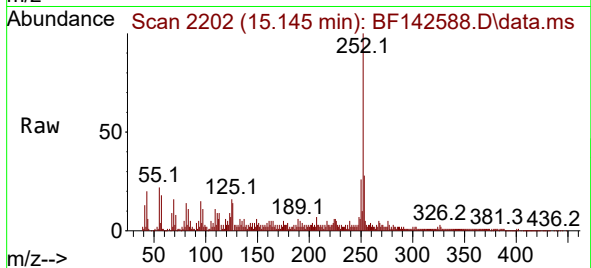
Tgt Ion:252 Resp: 61069

Ion Ratio Lower Upper

252 100

253 27.6 17.0 25.4#

125 15.8 7.3 10.9#



#90

Benzo(a)pyrene

Concen: 11.150 ng

RT: 15.504 min Scan# 2263

Delta R.T. -0.006 min

Lab File: BF142588.D

Acq: 31 May 2025 00:10

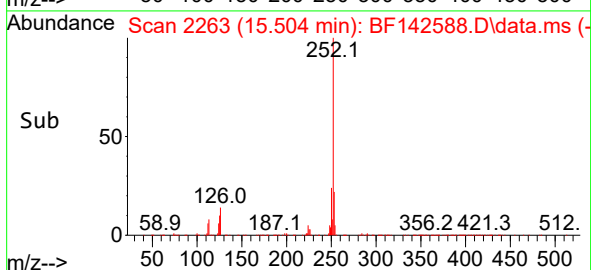
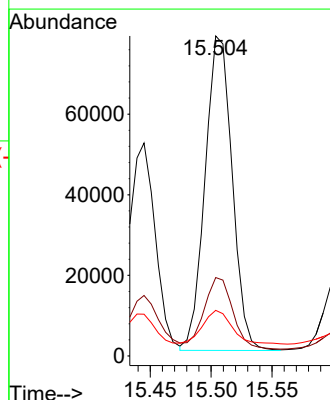
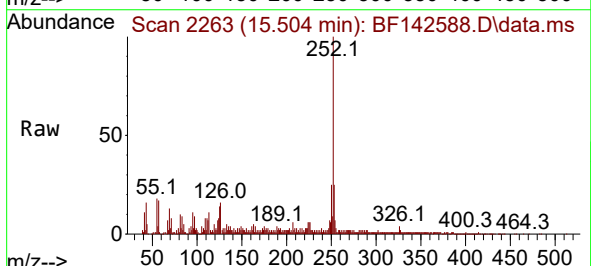
Tgt Ion:252 Resp: 120887

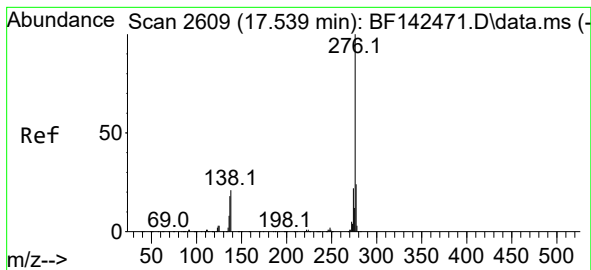
Ion Ratio Lower Upper

252 100

253 24.5 17.4 26.0

125 14.3 7.9 11.9#





#92

Benzo(g,h,i)perylene

Concen: 4.928 ng

RT: 17.545 min Scan# 20

Delta R.T. -0.012 min

Lab File: BF142588.D

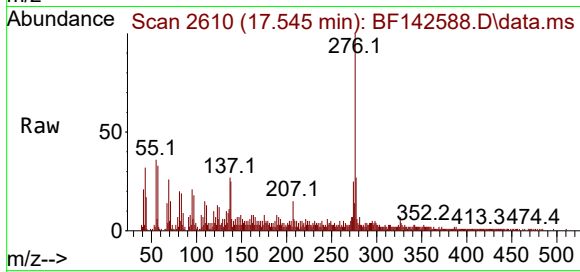
Acq: 31 May 2025 00:10

Instrument :

BNA_F

ClientSampleId :

OK-02-05292025



Tgt Ion:276 Resp: 58328

Ion Ratio Lower Upper

276 100

277 27.4 19.2 28.8

138 25.1 16.8 25.2

