

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF053025\
 Data File : BF142586.D
 Acq On : 30 May 2025 23:10
 Operator : RC/JU
 Sample : Q2150-01
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP-44

Quant Time: May 31 00:12:12 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)

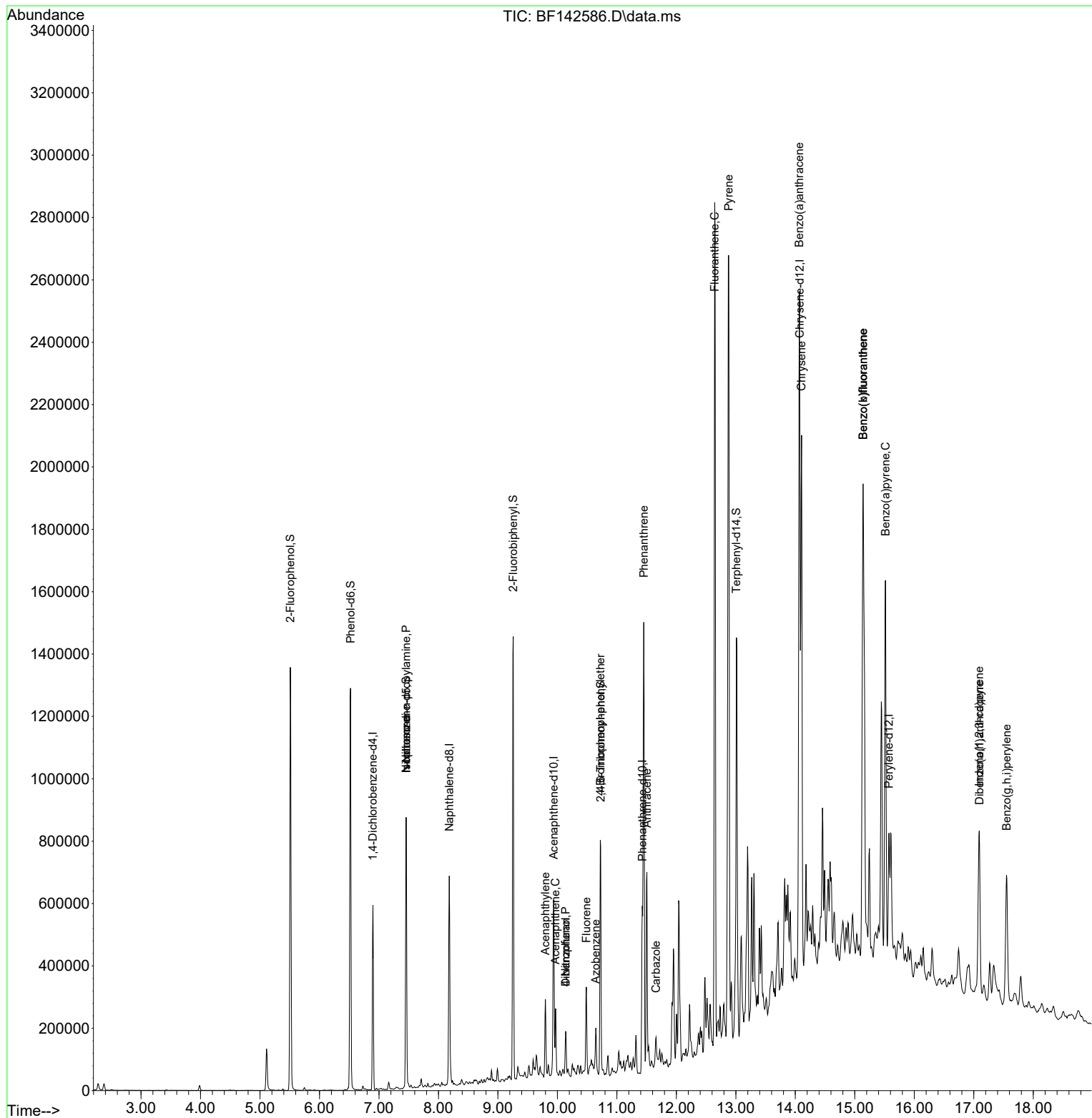
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.898	152	127932	20.000	ng	0.00
21) Naphthalene-d8	8.181	136	419456	20.000	ng	0.00
39) Acenaphthene-d10	9.939	164	173324	20.000	ng	0.00
64) Phenanthrene-d10	11.428	188	272258	20.000	ng	0.00
76) Chrysene-d12	14.074	240	273238	20.000	ng	# 0.00
86) Perylene-d12	15.574	264	220770	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.510	112	530834	69.906	ng	0.00
7) Phenol-d6	6.522	99	616313	67.425	ng	-0.01
23) Nitrobenzene-d5	7.457	82	362018	47.062	ng	-0.02
42) 2,4,6-Tribromophenol	10.728	330	122333	63.593	ng	-0.01
45) 2-Fluorobiphenyl	9.257	172	648355	50.195	ng	-0.01
79) Terphenyl-d14	13.010	244	620873	31.052	ng	0.00
Target Compounds						Qvalue
19) n-Nitroso-di-n-propyla...	7.457	70	48363	8.537	ng	# 76
25) Isophorone	7.457	82	346197	26.918	ng	# 63
49) Acenaphthylene	9.798	152	139334	8.306	ng	99
52) Acenaphthene	9.969	154	63172	6.167	ng	99
55) Dibenzofuran	10.139	168	71986	4.883	ng	98
56) 4-Nitrophenol	10.139	139	26421	13.282	ng	# 14
58) Fluorene	10.486	166	122179	10.729	ng	100
63) Azobenzene	10.645	77	23046	2.297	ng	# 1
67) 4-Bromophenyl-phenylether	10.722	248	8143	2.529	ng	# 1
71) Phenanthrene	11.451	178	761506	52.337	ng	100
72) Anthracene	11.504	178	375473	25.285	ng	99
73) Carbazole	11.657	167	50150	3.950	ng	99
75) Fluoranthene	12.645	202	1677367	123.377	ng	97
78) Pyrene	12.880	202	1627047	63.833	ng	98
81) Benzo(a)anthracene	14.069	228	1158541	63.497	ng	92
83) Chrysene	14.104	228	860064	52.460	ng	96
87) Indeno(1,2,3-cd)pyrene	17.092	276	403177	24.326	ng	97
88) Benzo(b)fluoranthene	15.139	252	1492816	114.250	ng	# 96
89) Benzo(k)fluoranthene	15.139	252	1492816	121.982	ng	# 96
90) Benzo(a)pyrene	15.516	252	736688	59.815	ng	97
91) Dibenzo(a,h)anthracene	17.098	278	103346	7.688	ng	# 91
92) Benzo(g,h,i)perylene	17.551	276	385367	28.662	ng	98

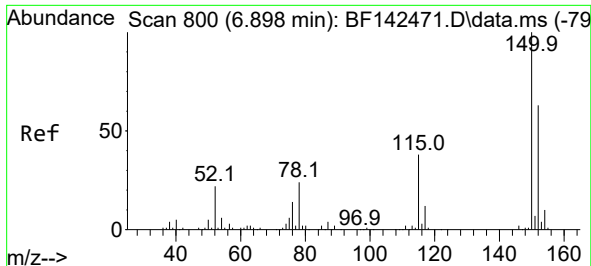
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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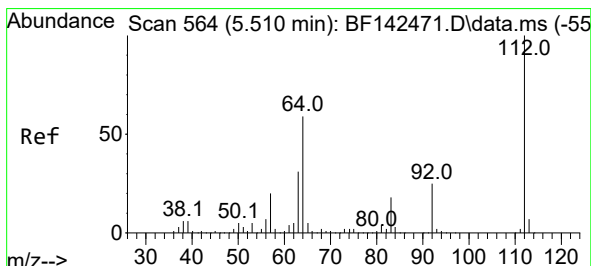
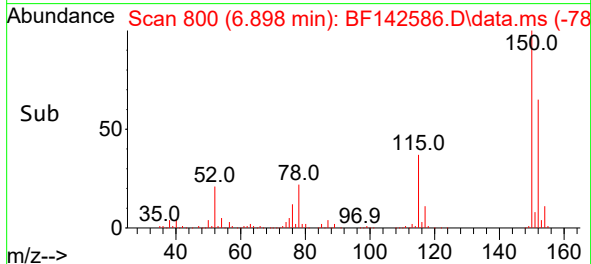
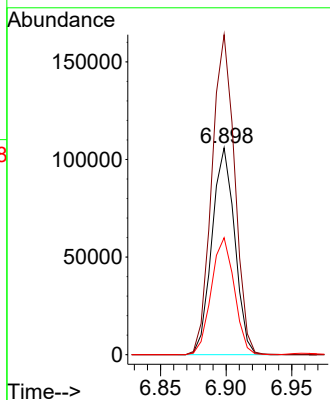
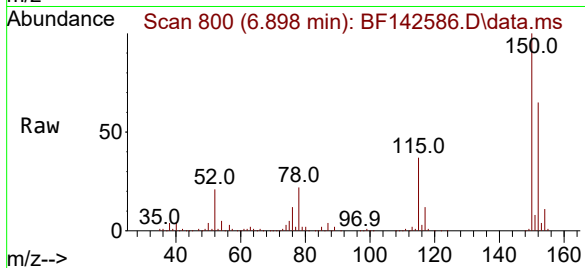




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.898 min Scan# 800
Delta R.T. -0.006 min
Lab File: BF142586.D
Acq: 30 May 2025 23:10

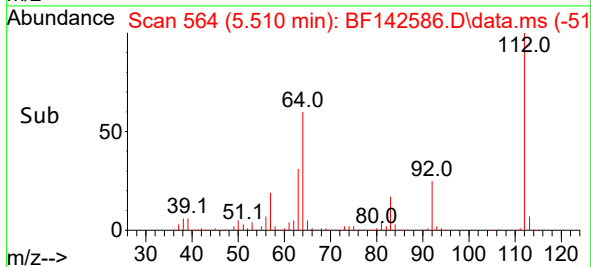
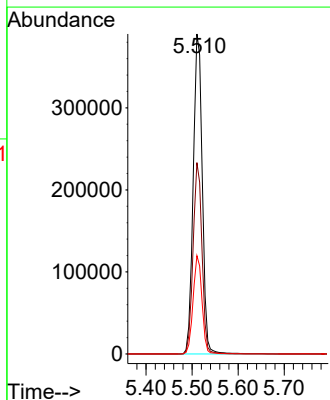
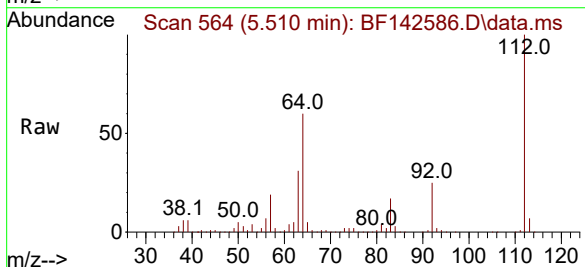
Instrument :
BNA_F
ClientSampleId :
TP-44

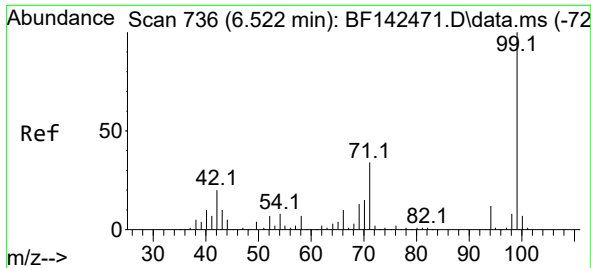
Tgt Ion:152 Resp: 127932
Ion Ratio Lower Upper
152 100
150 154.7 128.2 192.4
115 56.5 48.3 72.5



#5
2-Fluorophenol
Concen: 69.906 ng
RT: 5.510 min Scan# 564
Delta R.T. -0.006 min
Lab File: BF142586.D
Acq: 30 May 2025 23:10

Tgt Ion:112 Resp: 530834
Ion Ratio Lower Upper
112 100
64 59.8 47.5 71.3
63 30.7 24.9 37.3

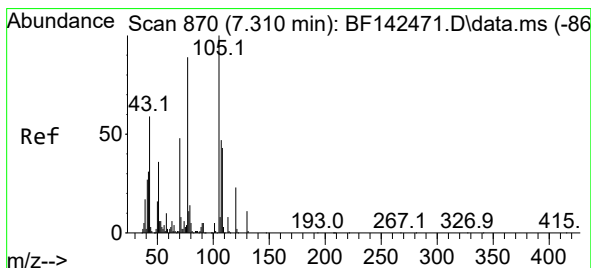
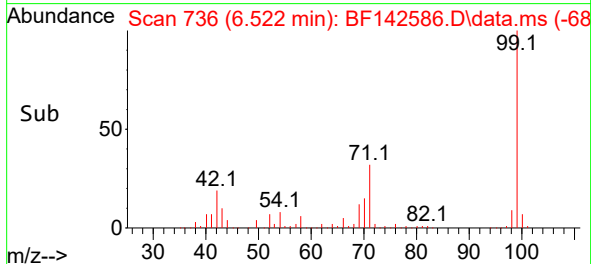
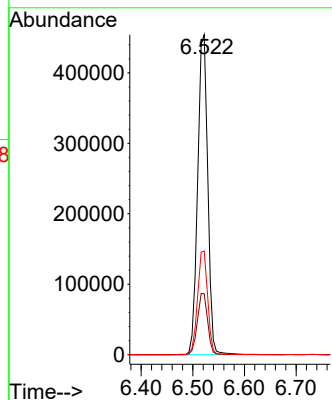
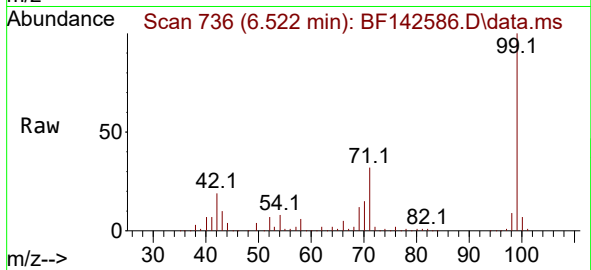




#7
Phenol-d6
Concen: 67.425 ng
RT: 6.522 min Scan# 71
Delta R.T. -0.012 min
Lab File: BF142586.D
Acq: 30 May 2025 23:10

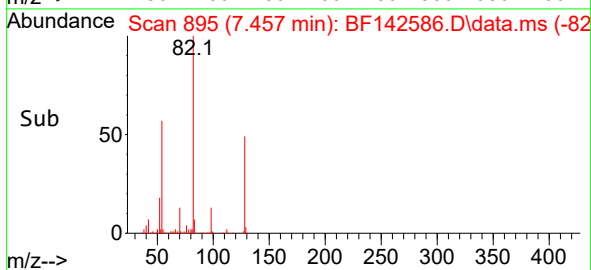
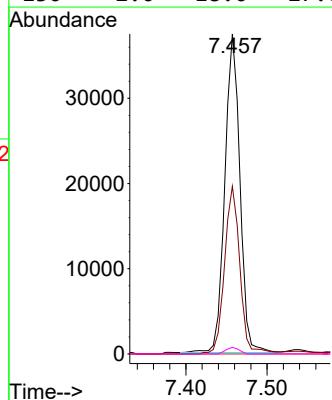
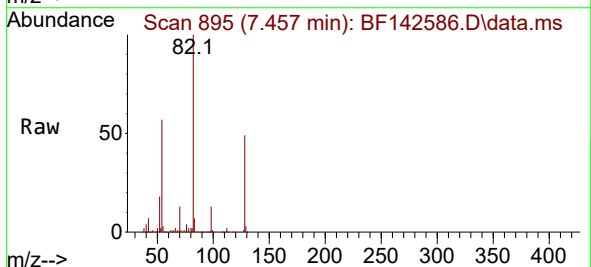
Instrument :
BNA_F
ClientSampleId :
TP-44

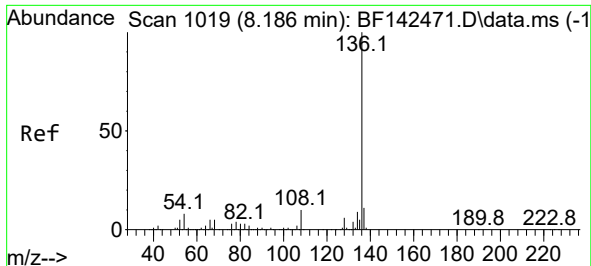
Tgt Ion: 99 Resp: 616313
Ion Ratio Lower Upper
99 100
42 19.0 16.2 24.2
71 32.4 27.3 40.9



#19
n-Nitroso-di-n-propylamine
Concen: 8.537 ng
RT: 7.457 min Scan# 895
Delta R.T. 0.130 min
Lab File: BF142586.D
Acq: 30 May 2025 23:10

Tgt Ion: 70 Resp: 48363
Ion Ratio Lower Upper
70 100
42 52.4 52.4 78.6#
101 0.0 7.8 11.8#
130 2.0 18.0 27.0#

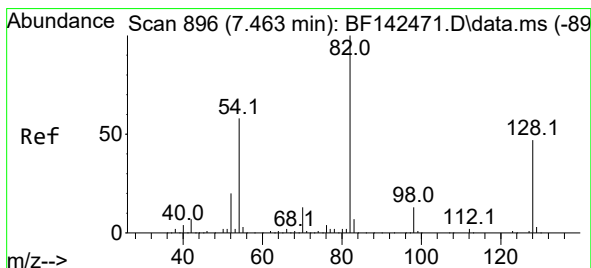
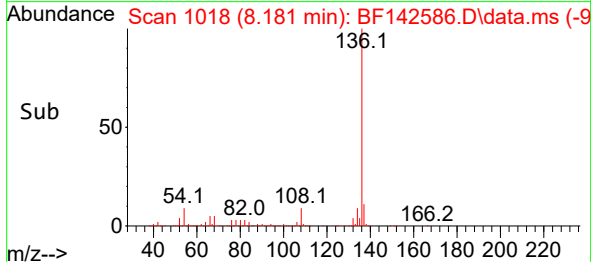
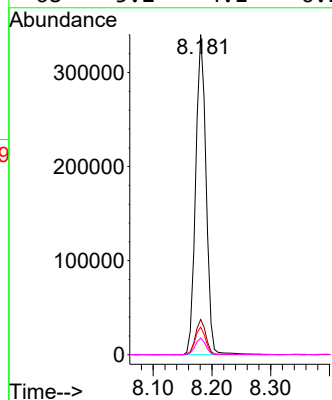
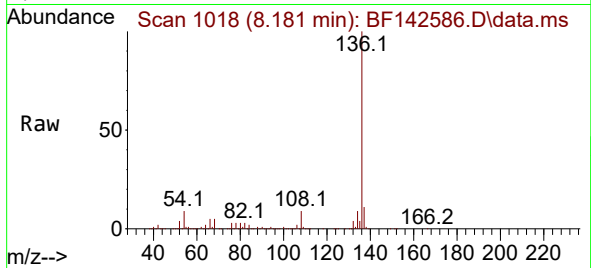




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.181 min Scan# 1019
Delta R.T. -0.006 min
Lab File: BF142586.D
Acq: 30 May 2025 23:10

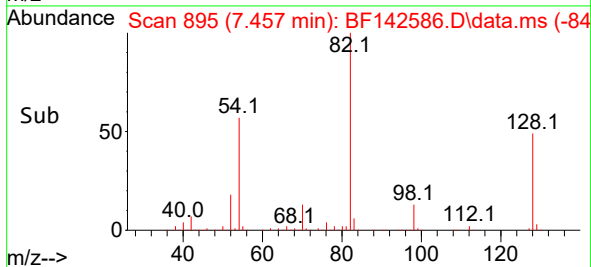
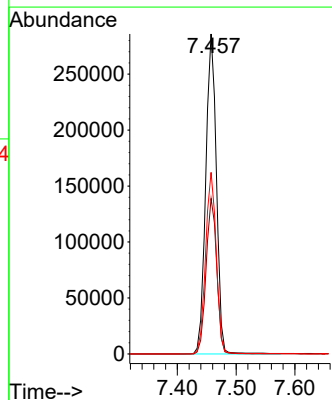
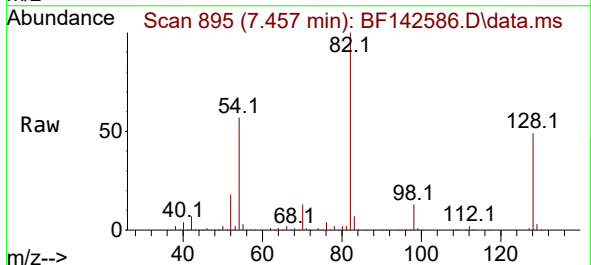
Instrument :
BNA_F
ClientSampleId :
TP-44

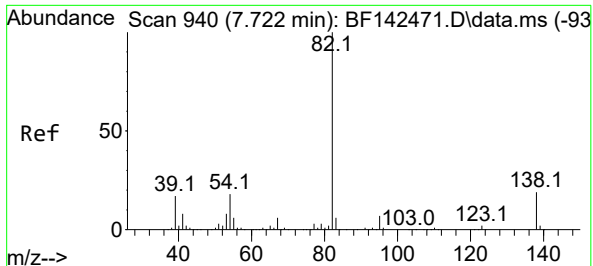
Tgt Ion:136 Resp: 419456
Ion Ratio Lower Upper
136 100
137 11.0 8.6 13.0
54 8.6 6.6 10.0
68 5.2 4.1 6.1



#23
Nitrobenzene-d5
Concen: 47.062 ng
RT: 7.457 min Scan# 895
Delta R.T. -0.017 min
Lab File: BF142586.D
Acq: 30 May 2025 23:10

Tgt Ion: 82 Resp: 362018
Ion Ratio Lower Upper
82 100
128 48.6 37.4 56.2
54 56.7 46.6 70.0

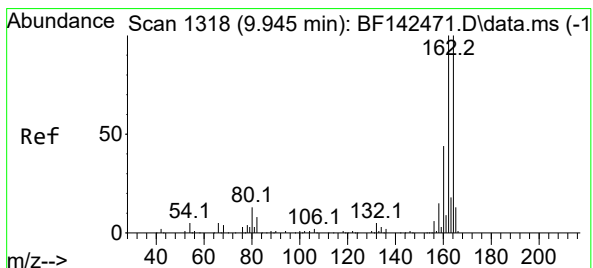
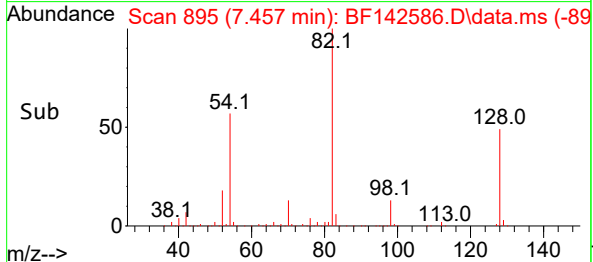
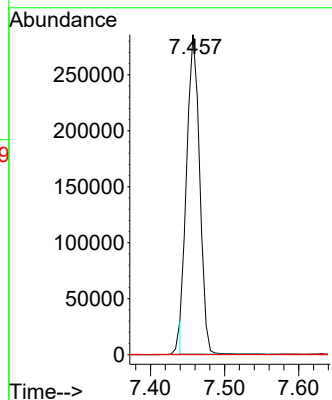
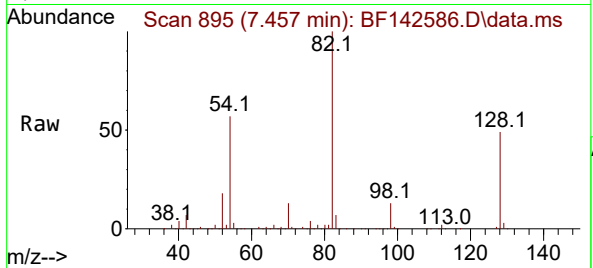




#25
Isophorone
Concen: 26.918 ng
RT: 7.457 min Scan# 89
Delta R.T. -0.276 min
Lab File: BF142586.D
Acq: 30 May 2025 23:10

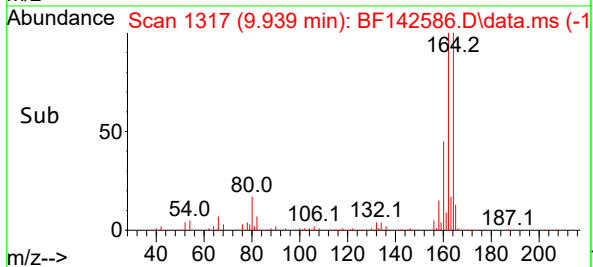
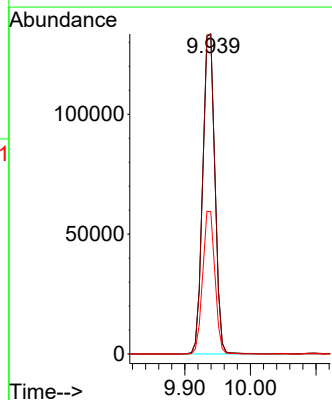
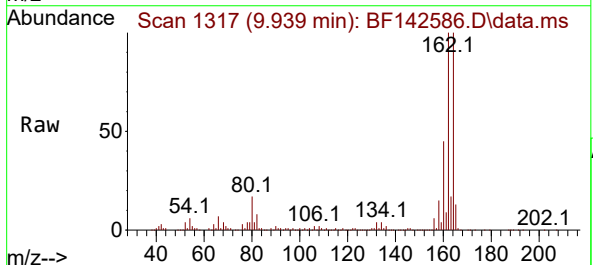
Instrument :
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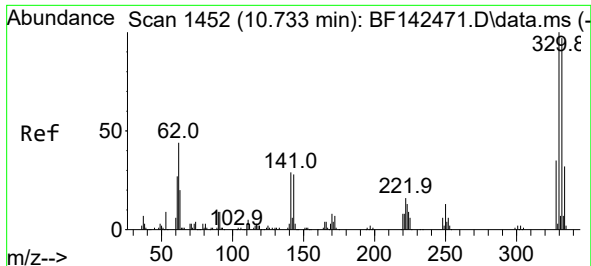
Tgt Ion: 82 Resp: 346197
Ion Ratio Lower Upper
82 100
95 0.1 6.0 9.0#
138 0.0 15.5 23.3#



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.939 min Scan# 1317
Delta R.T. -0.006 min
Lab File: BF142586.D
Acq: 30 May 2025 23:10

Tgt Ion:164 Resp: 173324
Ion Ratio Lower Upper
164 100
162 100.1 80.2 120.4
160 44.6 35.6 53.4

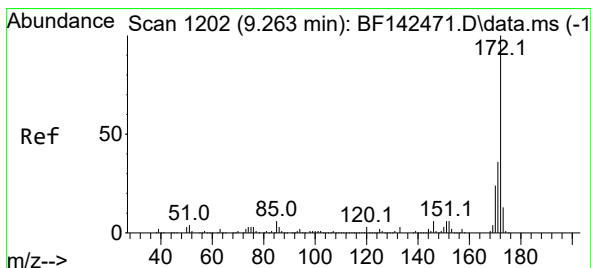
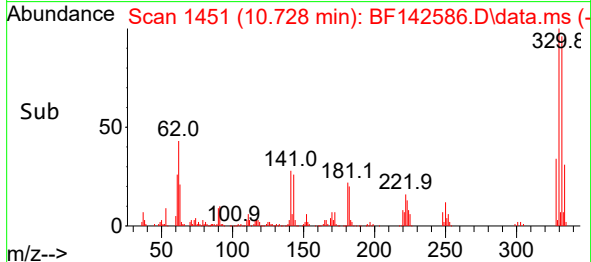
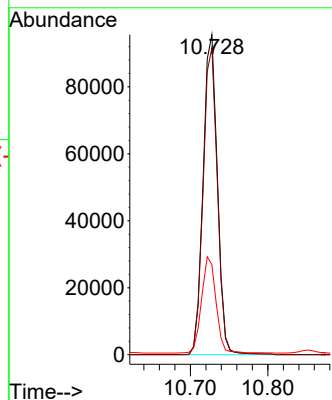
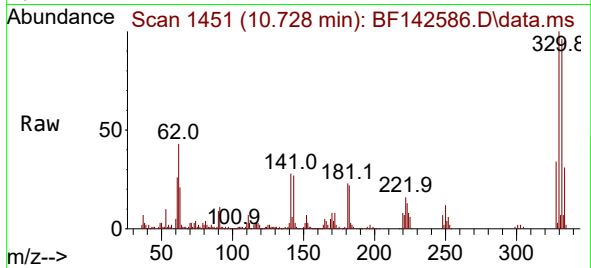




#42
2,4,6-Tribromophenol
Concen: 63.593 ng
RT: 10.728 min Scan# 1451
Delta R.T. -0.012 min
Lab File: BF142586.D
Acq: 30 May 2025 23:10

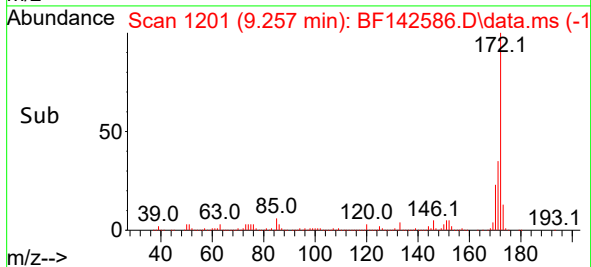
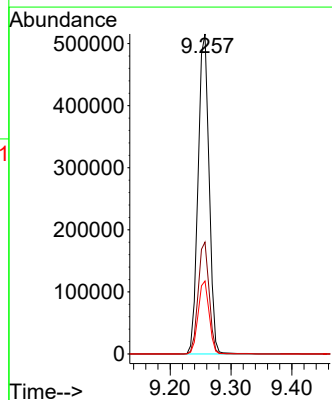
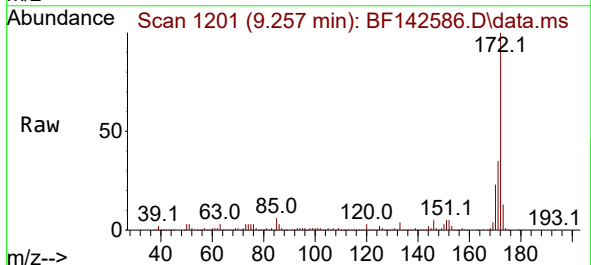
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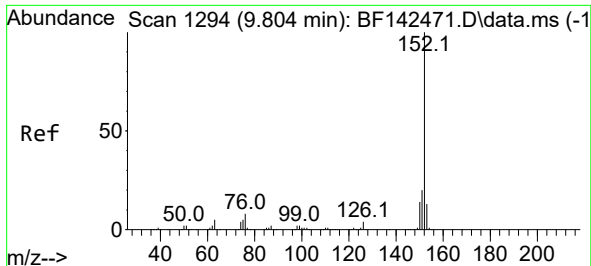
Tgt Ion:330 Resp: 122333
Ion Ratio Lower Upper
330 100
332 95.4 77.6 116.4
141 30.6 24.6 36.8



#45
2-Fluorobiphenyl
Concen: 50.195 ng
RT: 9.257 min Scan# 1201
Delta R.T. -0.011 min
Lab File: BF142586.D
Acq: 30 May 2025 23:10

Tgt Ion:172 Resp: 648355
Ion Ratio Lower Upper
172 100
171 35.0 28.6 42.8
170 22.8 18.9 28.3

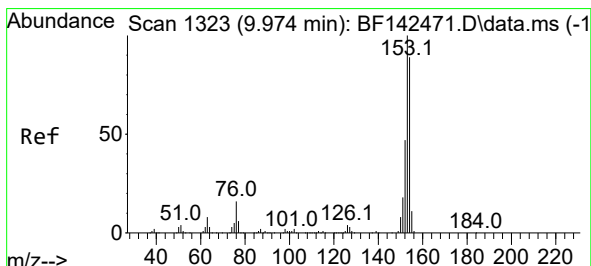
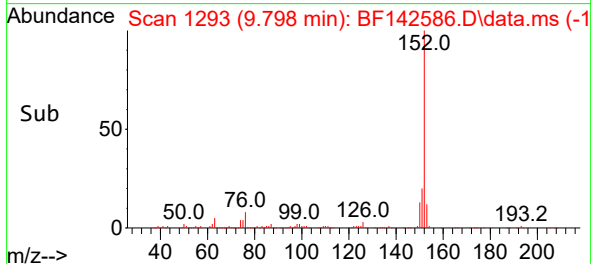
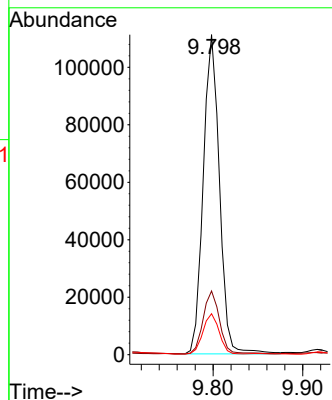
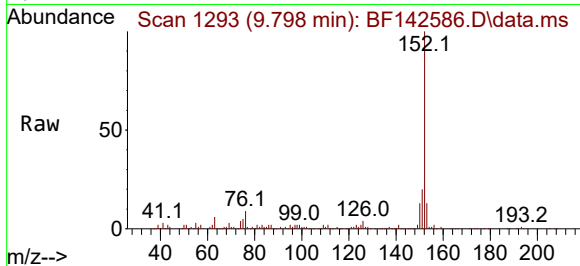




#49
Acenaphthylene
Concen: 8.306 ng
RT: 9.798 min Scan# 1293
Delta R.T. -0.012 min
Lab File: BF142586.D
Acq: 30 May 2025 23:10

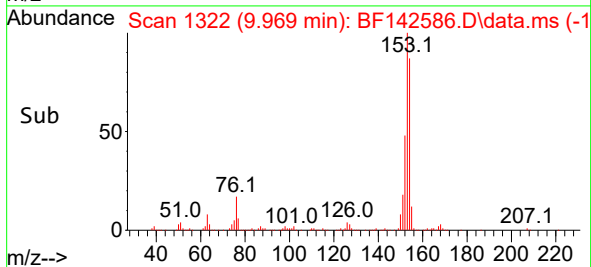
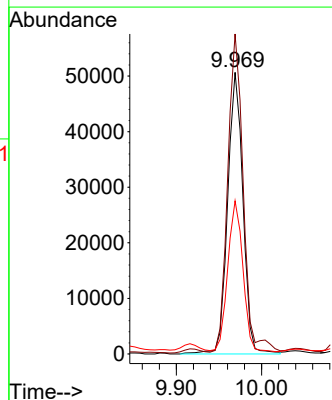
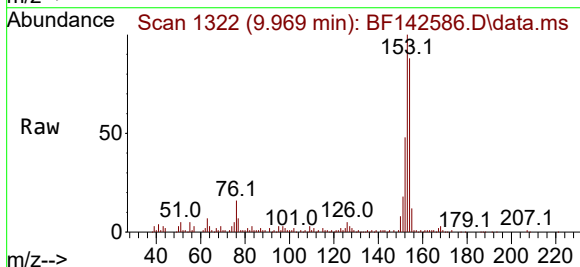
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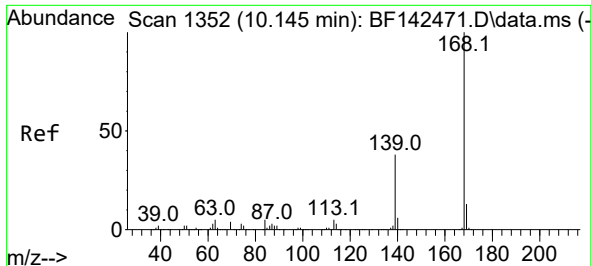
Tgt Ion:152 Resp: 139334
Ion Ratio Lower Upper
152 100
151 19.9 15.8 23.8
153 12.8 10.6 15.8



#52
Acenaphthene
Concen: 6.167 ng
RT: 9.969 min Scan# 1322
Delta R.T. -0.011 min
Lab File: BF142586.D
Acq: 30 May 2025 23:10

Tgt Ion:154 Resp: 63172
Ion Ratio Lower Upper
154 100
153 113.6 90.0 135.0
152 54.4 42.6 64.0





#55

Dibenzenofuran

Concen: 4.883 ng

RT: 10.139 min Scan# 1351

Delta R.T. -0.012 min

Lab File: BF142586.D

Acq: 30 May 2025 23:10

Instrument :

BNA_F

ClientSampleId :

TP-44

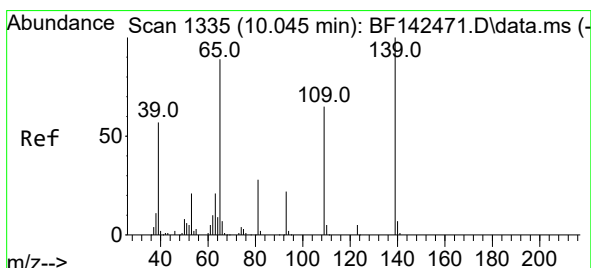
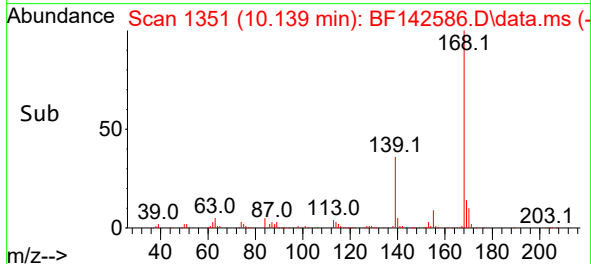
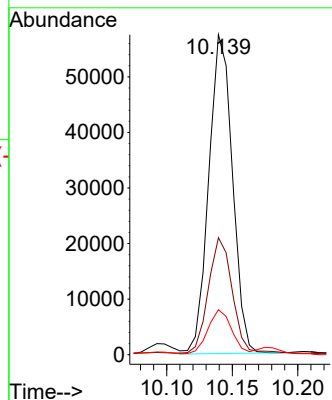
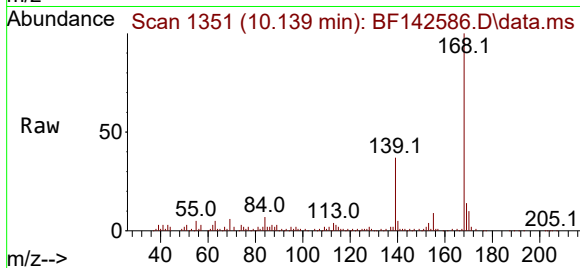
Tgt Ion:168 Resp: 71986

Ion Ratio Lower Upper

168 100

139 36.5 30.2 45.2

169 14.0 10.7 16.1



#56

4-Nitrophenol

Concen: 13.282 ng

RT: 10.139 min Scan# 1351

Delta R.T. 0.088 min

Lab File: BF142586.D

Acq: 30 May 2025 23:10

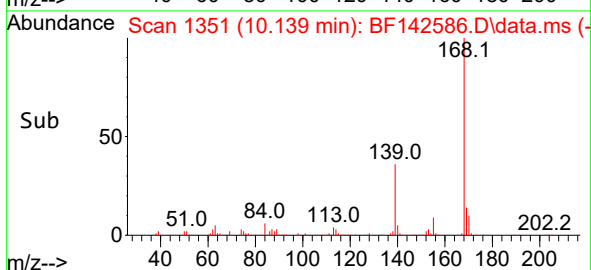
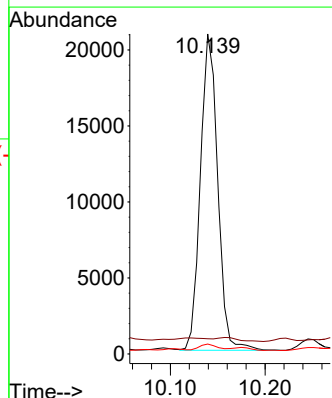
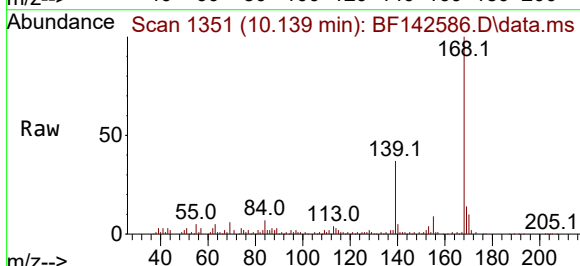
Tgt Ion:139 Resp: 26421

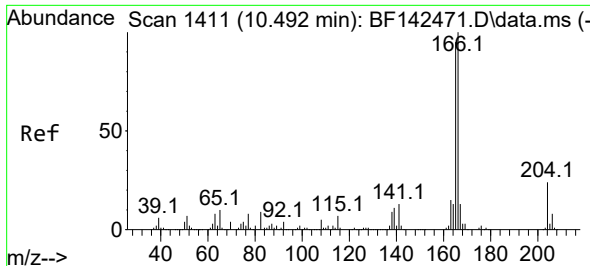
Ion Ratio Lower Upper

139 100

109 4.7 45.1 85.1#

65 3.1 69.7 109.7#

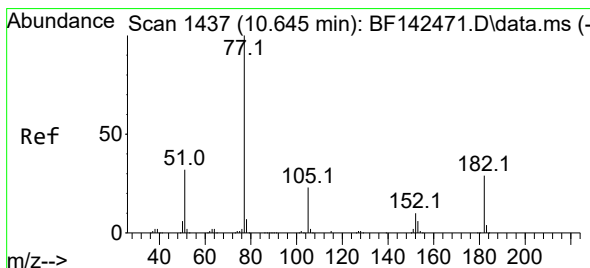
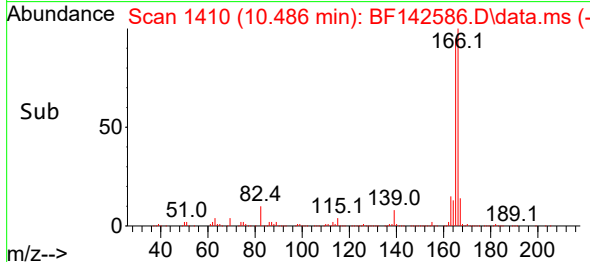
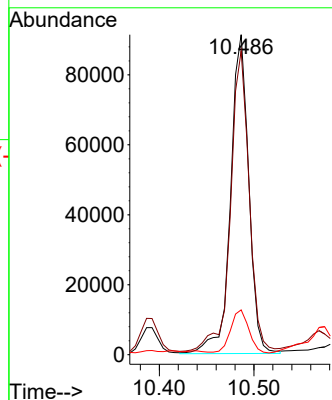
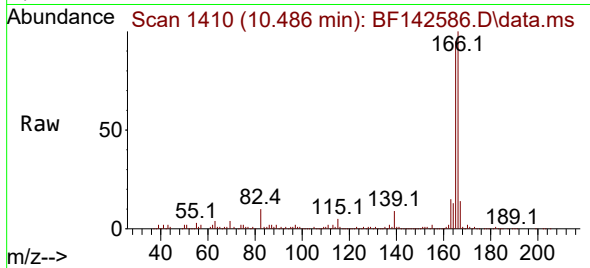




#58
Fluorene
Concen: 10.729 ng
RT: 10.486 min Scan# 1411
Delta R.T. -0.011 min
Lab File: BF142586.D
Acq: 30 May 2025 23:10

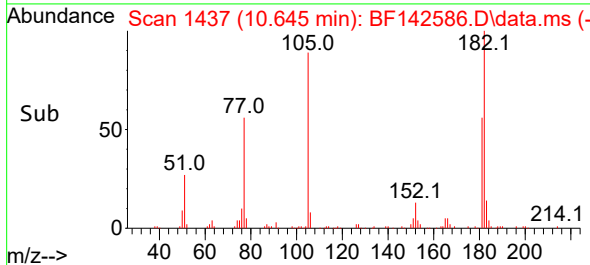
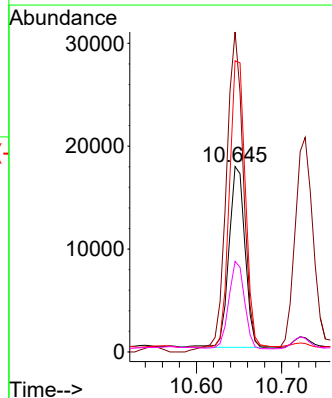
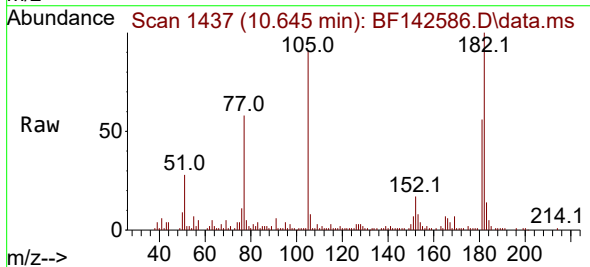
Instrument :
BNA_F
ClientSampleId :
TP-44

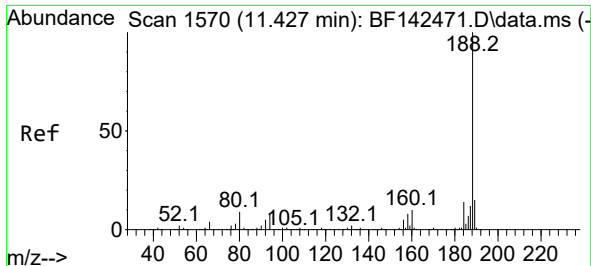
Tgt Ion:166 Resp: 122179
Ion Ratio Lower Upper
166 100
165 95.0 75.8 113.8
167 14.0 10.6 16.0



#63
Azobenzene
Concen: 2.297 ng
RT: 10.645 min Scan# 1437
Delta R.T. 0.000 min
Lab File: BF142586.D
Acq: 30 May 2025 23:10

Tgt Ion: 77 Resp: 23046
Ion Ratio Lower Upper
77 100
182 172.6 9.0 49.0#
105 157.1 2.4 42.4#
51 48.9 13.5 53.5

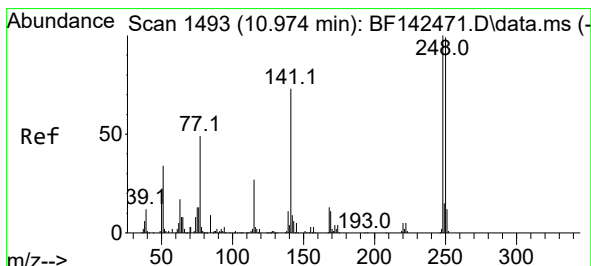
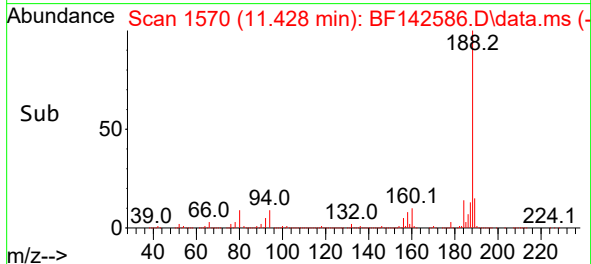
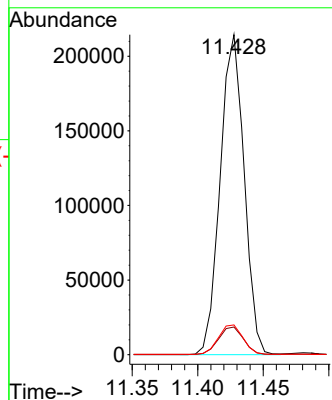
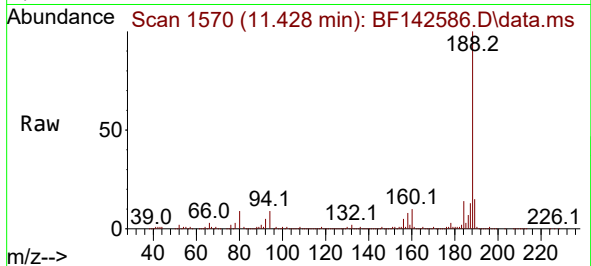




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.428 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142586.D
Acq: 30 May 2025 23:10

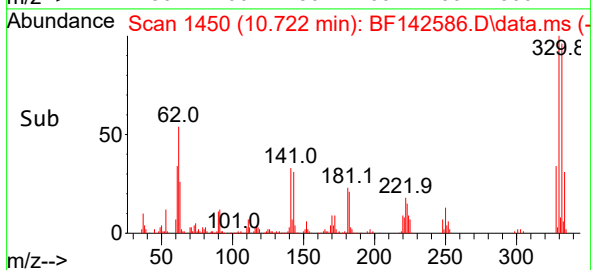
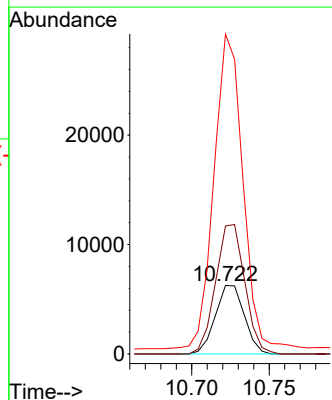
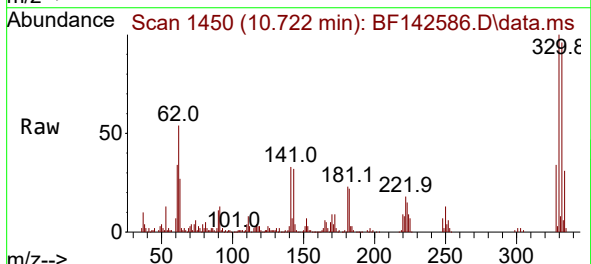
Instrument :
BNA_F
ClientSampleId :
TP-44

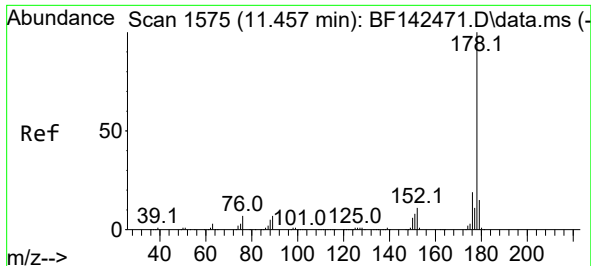
Tgt Ion:188 Resp: 272258
Ion Ratio Lower Upper
188 100
94 8.6 6.6 10.0
80 9.3 7.4 11.0



#67
4-Bromophenyl-phenylether
Concen: 2.529 ng
RT: 10.722 min Scan# 1450
Delta R.T. -0.253 min
Lab File: BF142586.D
Acq: 30 May 2025 23:10

Tgt Ion:248 Resp: 8143
Ion Ratio Lower Upper
248 100
250 187.1 79.0 118.4#
141 467.7 58.4 87.6#

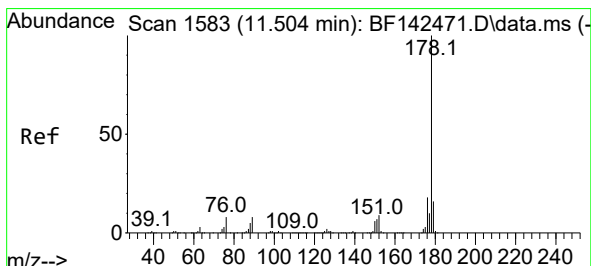
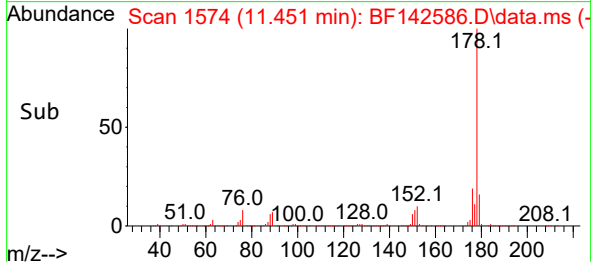
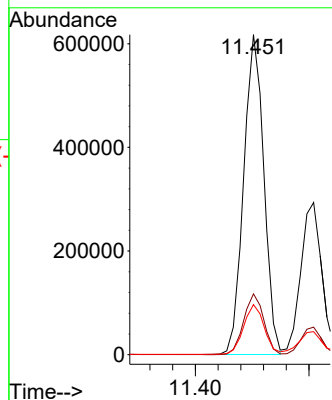
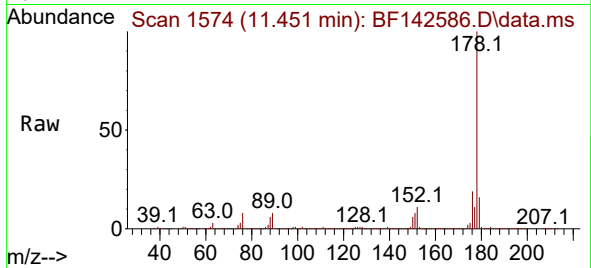




#71
Phenanthrene
Concen: 52.337 ng
RT: 11.451 min Scan# 1574
Delta R.T. -0.006 min
Lab File: BF142586.D
Acq: 30 May 2025 23:10

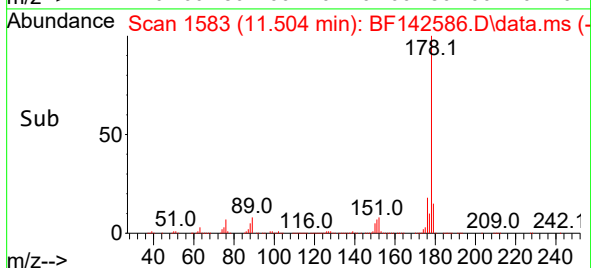
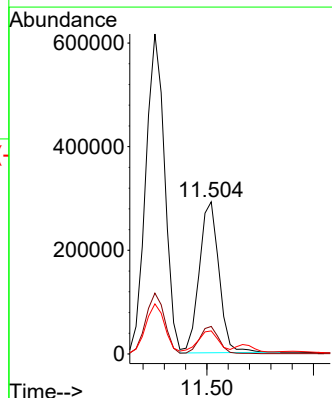
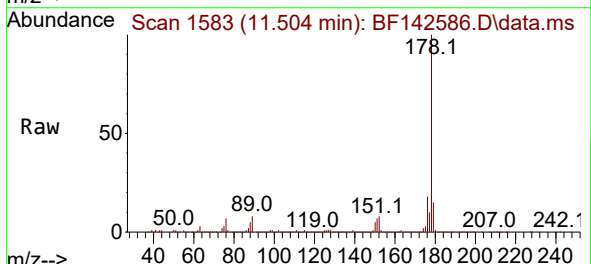
Instrument : BNA_F
ClientSampleId : TP-44

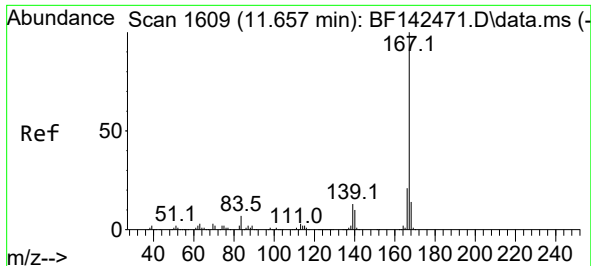
Tgt Ion:178 Resp: 761506
Ion Ratio Lower Upper
178 100
176 19.0 15.4 23.0
179 15.7 12.3 18.5



#72
Anthracene
Concen: 25.285 ng
RT: 11.504 min Scan# 1583
Delta R.T. -0.006 min
Lab File: BF142586.D
Acq: 30 May 2025 23:10

Tgt Ion:178 Resp: 375473
Ion Ratio Lower Upper
178 100
176 18.0 14.6 21.8
179 15.2 12.4 18.6

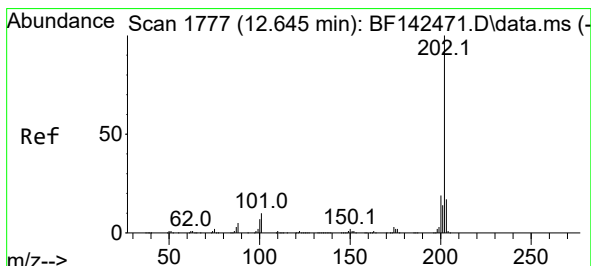
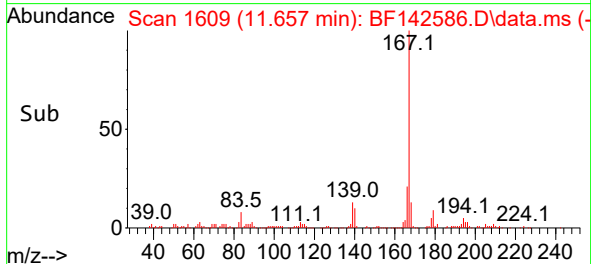
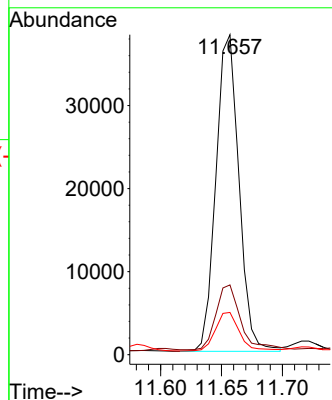
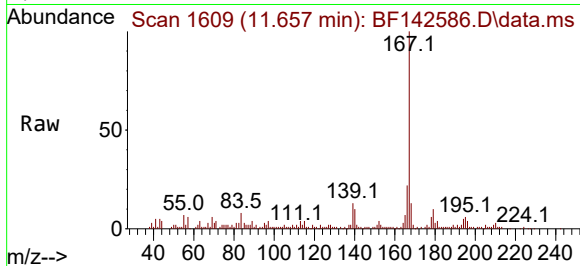




#73
 Carbazole
 Concen: 3.950 ng
 RT: 11.657 min Scan# 1
 Delta R.T. -0.006 min
 Lab File: BF142586.D
 Acq: 30 May 2025 23:10

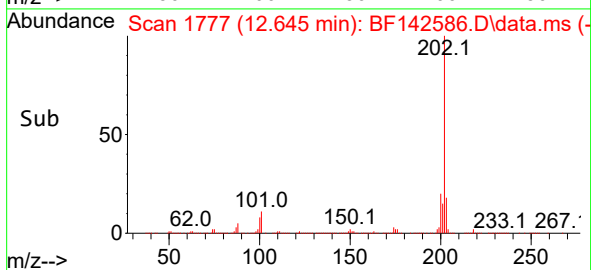
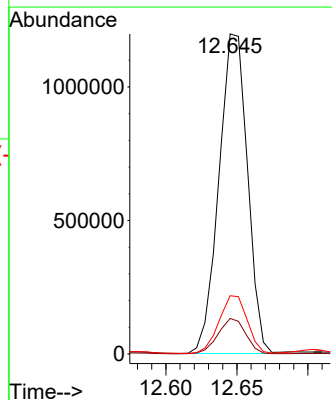
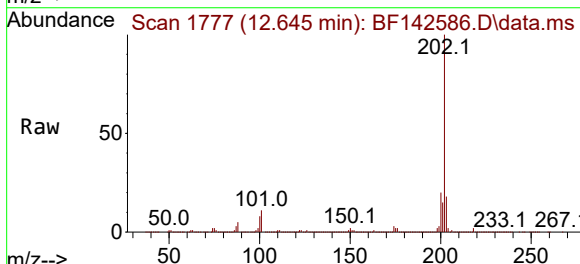
Instrument :
 BNA_F
 ClientSampleId :
 TP-44

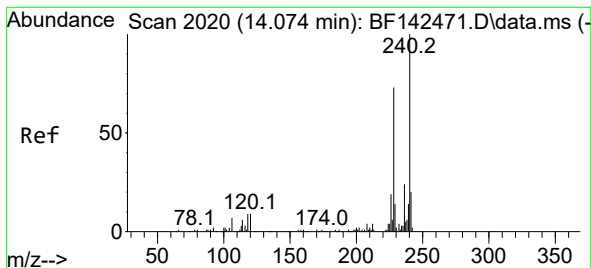
Tgt Ion:167 Resp: 50150
 Ion Ratio Lower Upper
 167 100
 166 21.8 16.9 25.3
 139 13.2 10.2 15.4



#75
 Fluoranthene
 Concen: 123.377 ng
 RT: 12.645 min Scan# 1777
 Delta R.T. 0.000 min
 Lab File: BF142586.D
 Acq: 30 May 2025 23:10

Tgt Ion:202 Resp: 1677367
 Ion Ratio Lower Upper
 202 100
 101 11.1 0.0 29.6
 203 18.2 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: BF142586.D

Acq: 30 May 2025 23:10

Instrument :

BNA_F

ClientSampleId :

TP-44

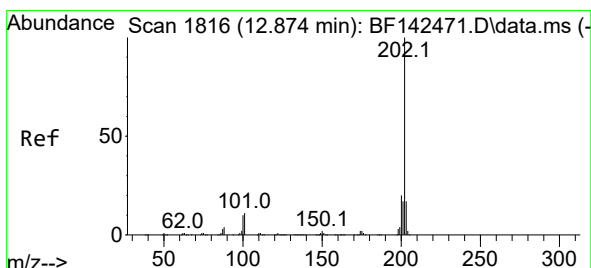
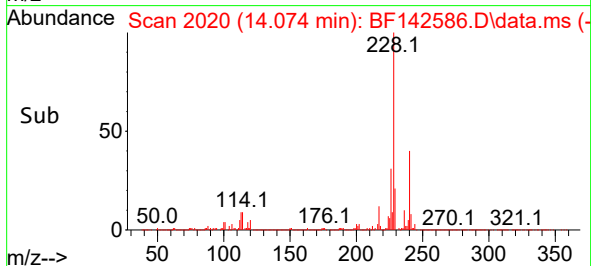
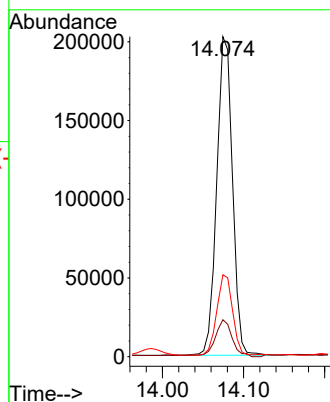
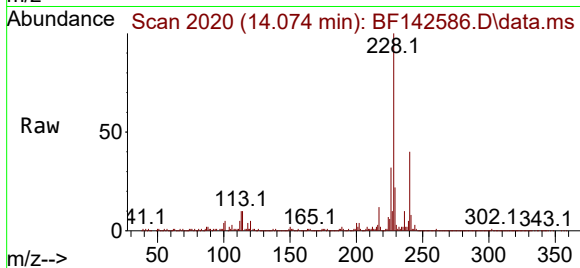
Tgt Ion:240 Resp: 273238

Ion Ratio Lower Upper

240 100

120 11.6 7.5 11.3#

236 25.6 19.6 29.4



#78

Pyrene

Concen: 63.833 ng

RT: 12.880 min Scan# 1817

Delta R.T. 0.006 min

Lab File: BF142586.D

Acq: 30 May 2025 23:10

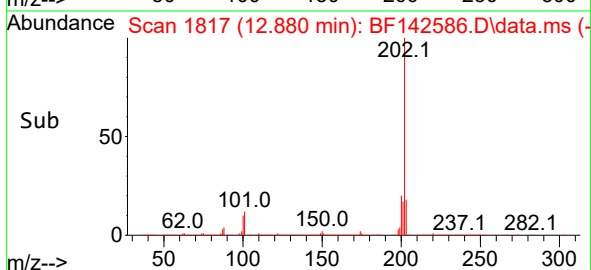
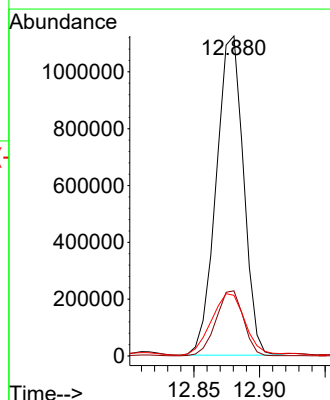
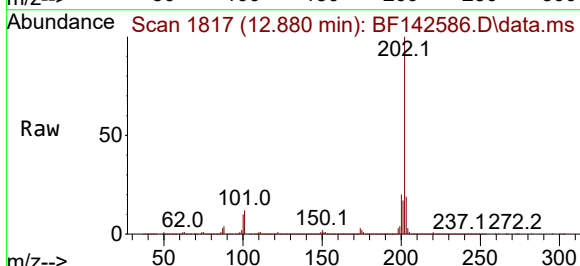
Tgt Ion:202 Resp: 1627047

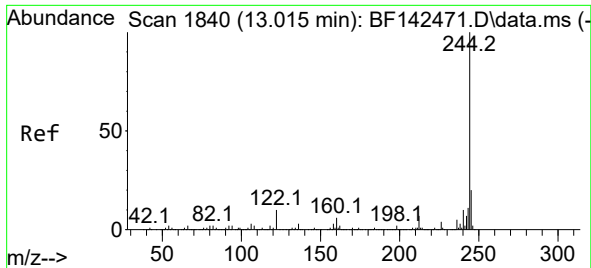
Ion Ratio Lower Upper

202 100

200 20.3 16.1 24.1

203 19.0 13.9 20.9

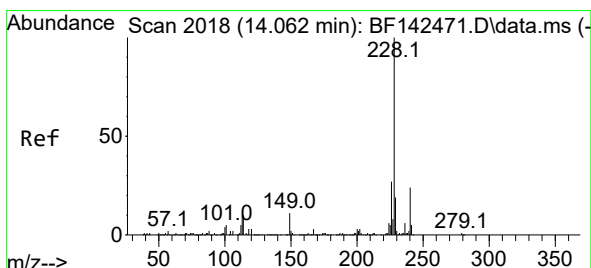
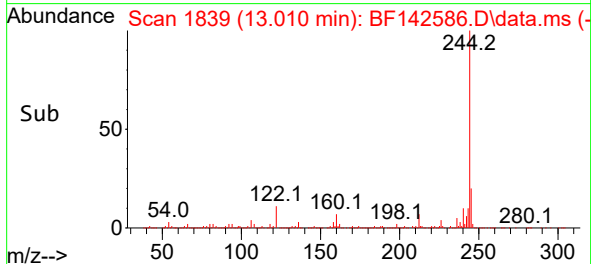
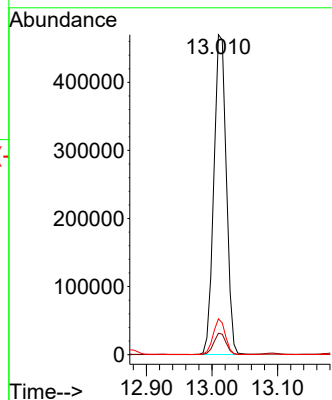
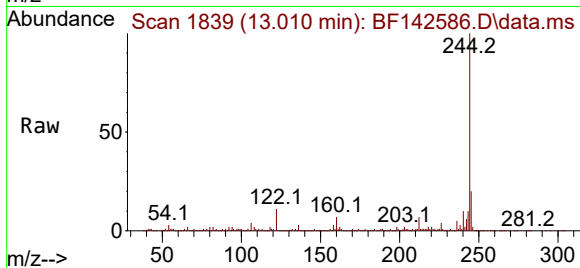




#79
 Terphenyl-d14
 Concen: 31.052 ng
 RT: 13.010 min Scan# 1840
 Delta R.T. -0.006 min
 Lab File: BF142586.D
 Acq: 30 May 2025 23:10

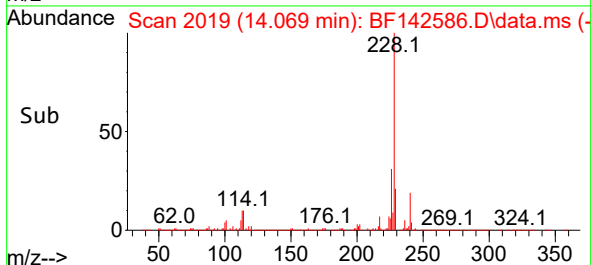
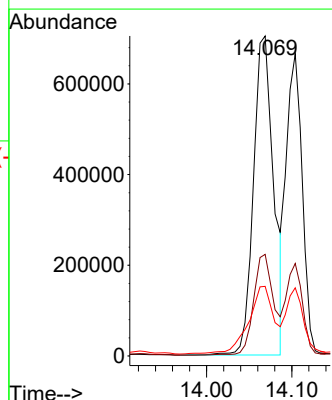
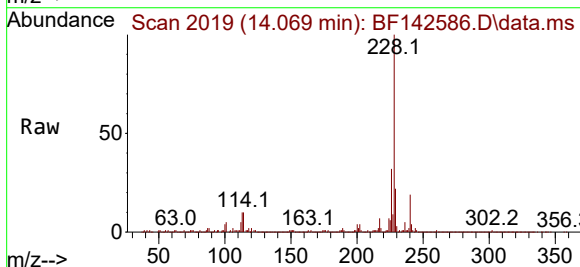
Instrument :
 BNA_F
 ClientSampleId :
 TP-44

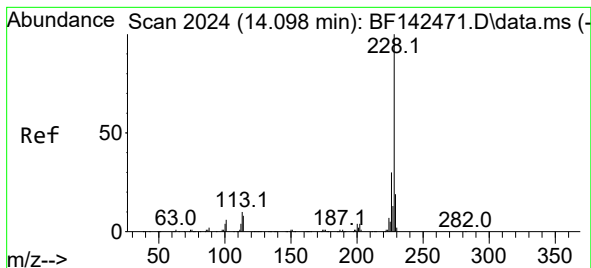
Tgt Ion:244 Resp: 620873
 Ion Ratio Lower Upper
 244 100
 212 6.7 5.3 7.9
 122 11.2 8.2 12.2



#81
 Benzo(a)anthracene
 Concen: 63.497 ng
 RT: 14.069 min Scan# 2019
 Delta R.T. 0.006 min
 Lab File: BF142586.D
 Acq: 30 May 2025 23:10

Tgt Ion:228 Resp: 1158541
 Ion Ratio Lower Upper
 228 100
 226 31.7 21.2 31.8
 229 21.8 15.5 23.3





#83

Chrysene

Concen: 52.460 ng

RT: 14.104 min Scan# 20

Delta R.T. 0.000 min

Lab File: BF142586.D

Acq: 30 May 2025 23:10

Instrument :

BNA_F

ClientSampleId :

TP-44

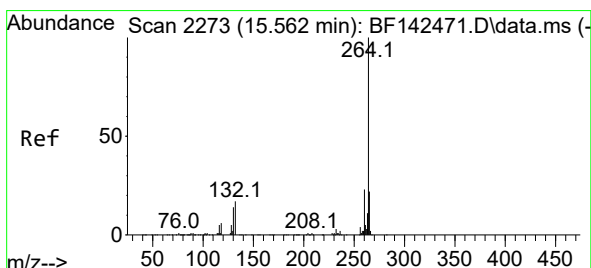
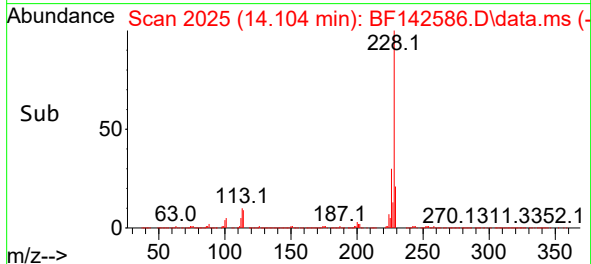
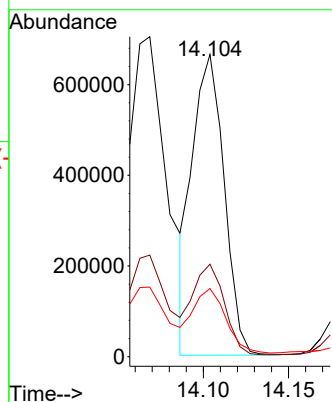
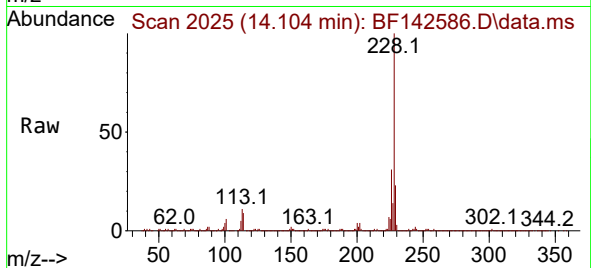
Tgt Ion:228 Resp: 860064

Ion Ratio Lower Upper

228 100

226 30.6 23.8 35.6

229 22.5 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: BF142586.D

Acq: 30 May 2025 23:10

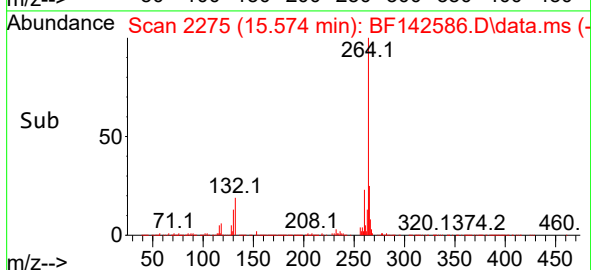
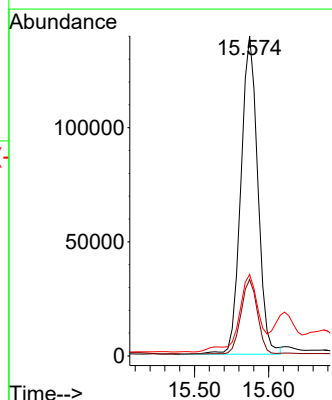
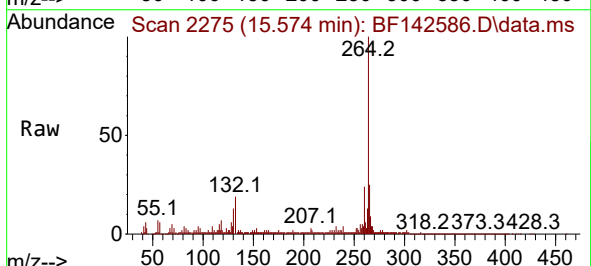
Tgt Ion:264 Resp: 220770

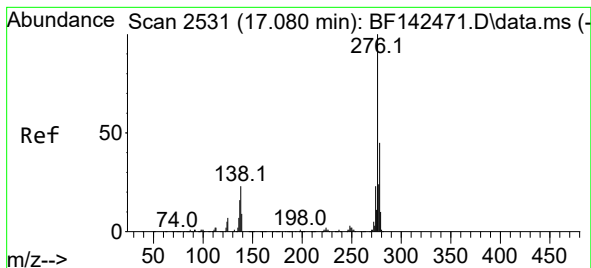
Ion Ratio Lower Upper

264 100

260 23.9 18.6 28.0

265 25.5 17.7 26.5





#87

Indeno(1,2,3-cd)pyrene

Concen: 24.326 ng

RT: 17.092 min Scan# 21

Delta R.T. 0.000 min

Lab File: BF142586.D

Acq: 30 May 2025 23:10

Instrument :

BNA_F

ClientSampleId :

TP-44

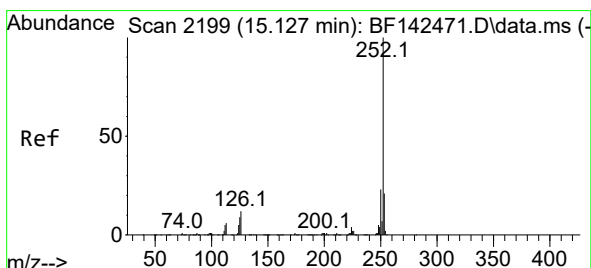
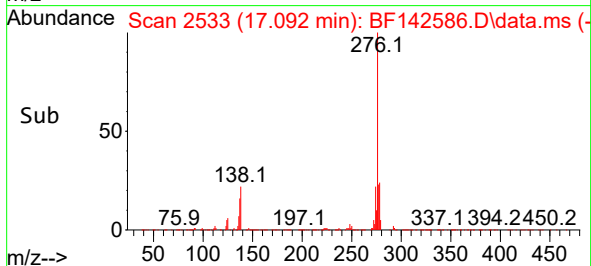
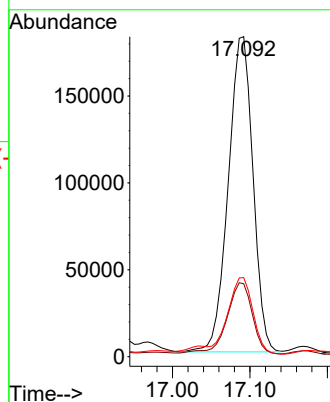
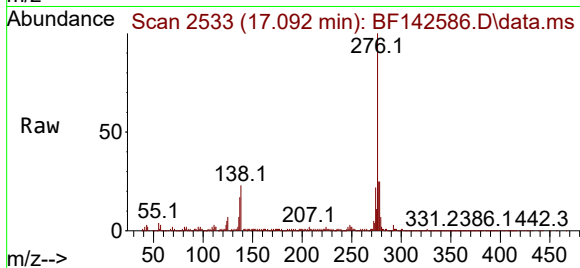
Tgt Ion:276 Resp: 403177

Ion Ratio Lower Upper

276 100

138 23.1 19.9 29.9

277 26.8 20.2 30.2



#88

Benzo(b)fluoranthene

Concen: 114.250 ng

RT: 15.139 min Scan# 2201

Delta R.T. 0.012 min

Lab File: BF142586.D

Acq: 30 May 2025 23:10

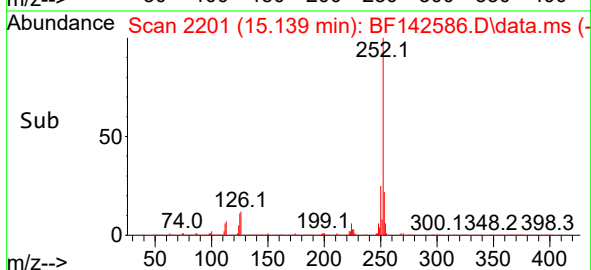
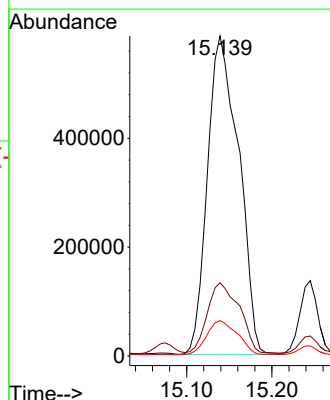
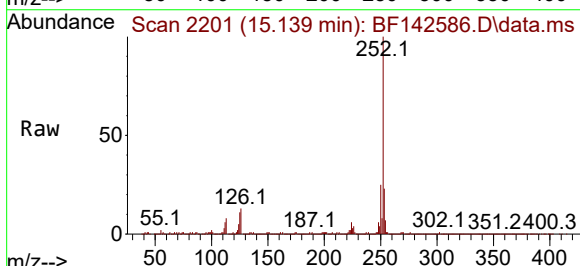
Tgt Ion:252 Resp: 1492816

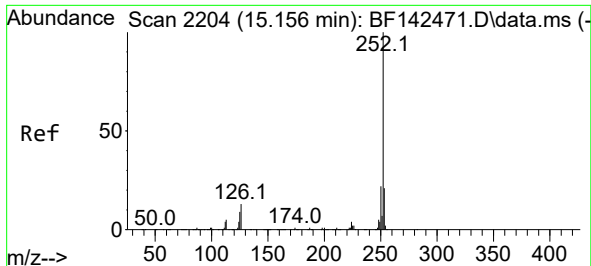
Ion Ratio Lower Upper

252 100

253 22.9 17.0 25.4

125 11.1 7.4 11.0#

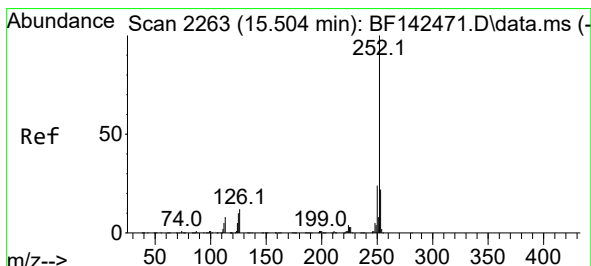
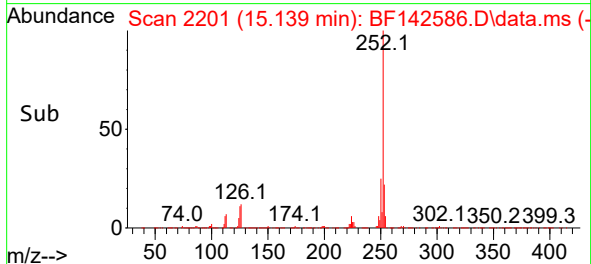
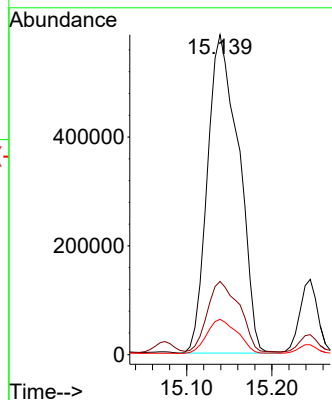
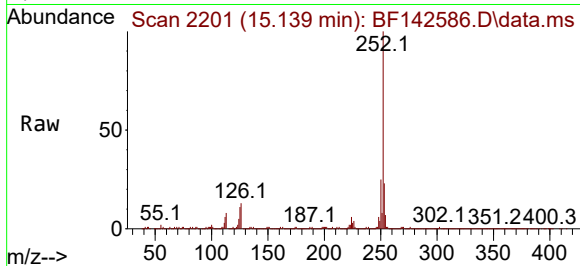




#89
Benzo(k)fluoranthene
Concen: 121.982 ng
RT: 15.139 min Scan# 21
Delta R.T. -0.023 min
Lab File: BF142586.D
Acq: 30 May 2025 23:10

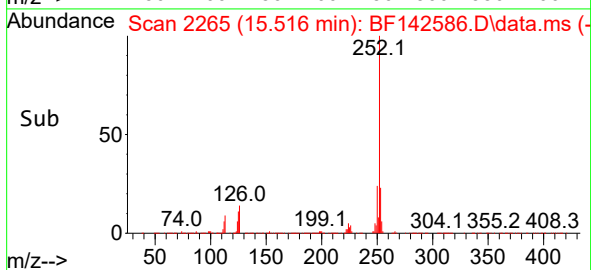
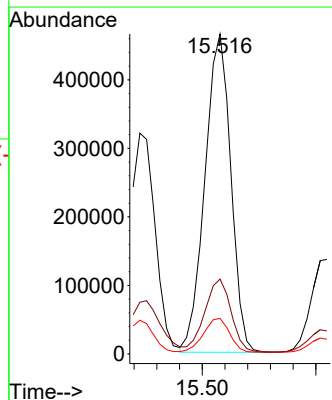
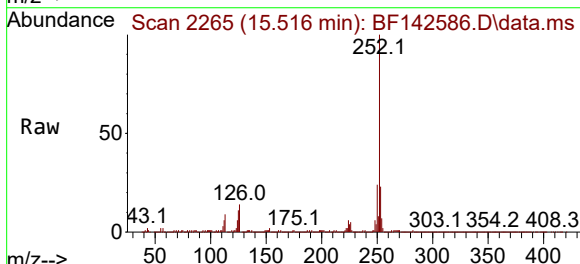
Instrument :
BNA_F
ClientSampleId :
TP-44

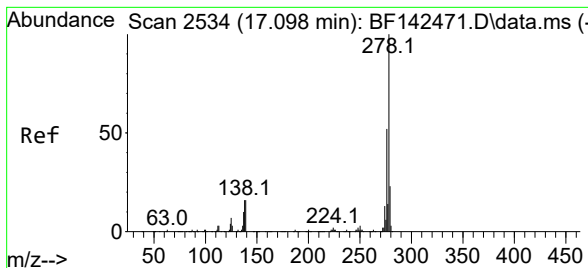
Tgt Ion:252 Resp: 1492816
Ion Ratio Lower Upper
252 100
253 22.9 17.0 25.4
125 11.1 7.3 10.9#



#90
Benzo(a)pyrene
Concen: 59.815 ng
RT: 15.516 min Scan# 2265
Delta R.T. 0.006 min
Lab File: BF142586.D
Acq: 30 May 2025 23:10

Tgt Ion:252 Resp: 736688
Ion Ratio Lower Upper
252 100
253 23.4 17.4 26.0
125 11.1 7.9 11.9





#91

Dibenzo(a,h)anthracene

Concen: 7.688 ng

RT: 17.098 min Scan# 21

Delta R.T. -0.017 min

Lab File: BF142586.D

Acq: 30 May 2025 23:10

Instrument :

BNA_F

ClientSampleId :

TP-44

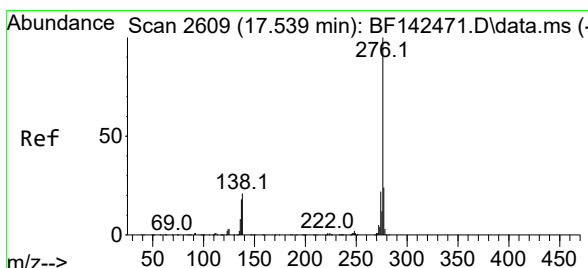
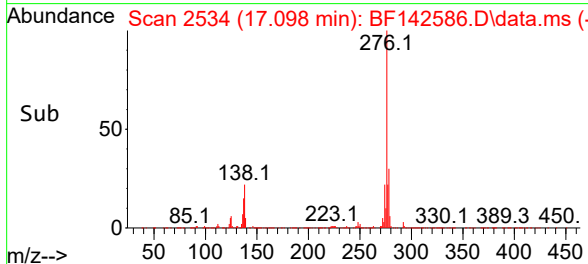
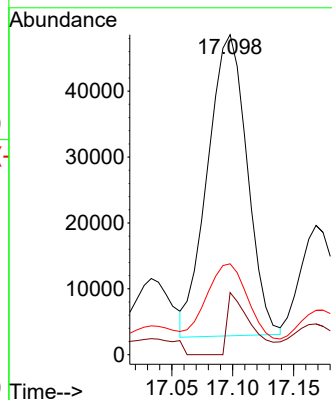
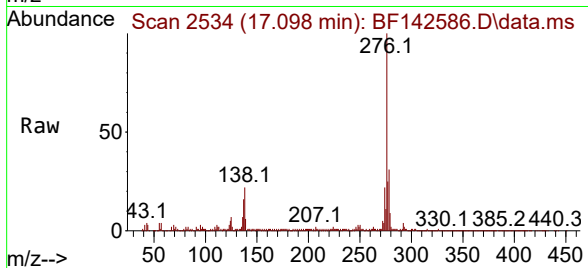
Tgt Ion:278 Resp: 103346

Ion Ratio Lower Upper

278 100

139 19.4 12.8 19.2#

279 28.4 18.6 28.0#



#92

Benzo(g,h,i)perylene

Concen: 28.662 ng

RT: 17.551 min Scan# 2611

Delta R.T. -0.006 min

Lab File: BF142586.D

Acq: 30 May 2025 23:10

Tgt Ion:276 Resp: 385367

Ion Ratio Lower Upper

276 100

277 24.2 19.2 28.8

138 23.1 16.8 25.2

