

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051525\
 Data File : BF142411.D
 Acq On : 16 May 2025 00:28
 Operator : RC/JU
 Sample : Q2024-01
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 PL-02-051325

Quant Time: May 16 01:11:48 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF050525.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon May 05 18:41:44 2025
 Response via : Initial Calibration

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

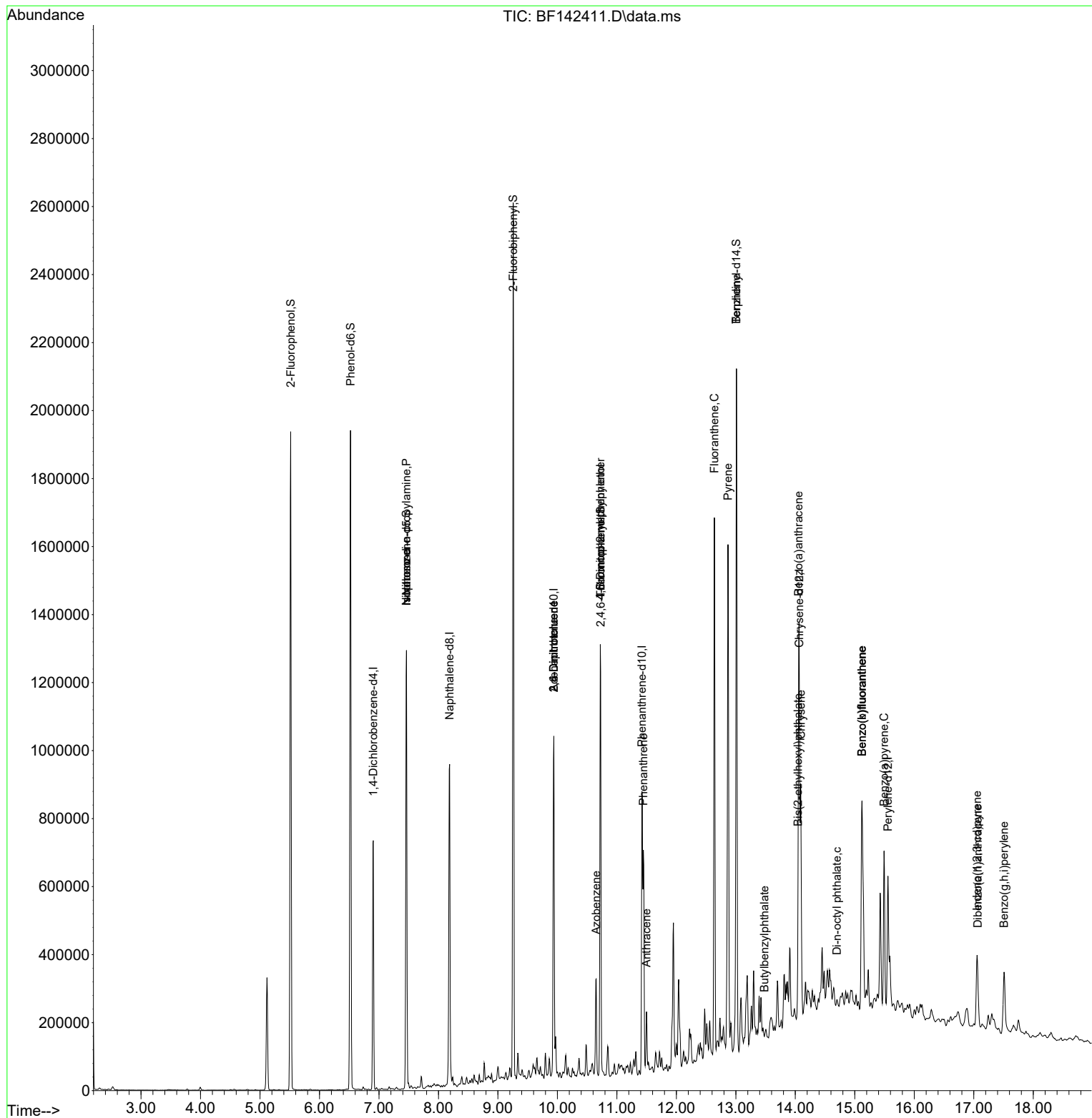
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.904	152	162873	20.000	ng	0.00
21) Naphthalene-d8	8.186	136	614619	20.000	ng	0.00
39) Acenaphthene-d10	9.939	164	304465	20.000	ng	0.00
64) Phenanthrene-d10	11.422	188	446956	20.000	ng	-0.01
76) Chrysene-d12	14.068	240	295855	20.000	ng	0.00
86) Perylene-d12	15.557	264	228248	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.516	112	744828	78.066	ng	0.00
7) Phenol-d6	6.522	99	917555	78.191	ng	0.00
23) Nitrobenzene-d5	7.463	82	546290	54.207	ng	0.00
42) 2,4,6-Tribromophenol	10.727	330	224792	76.471	ng	0.00
45) 2-Fluorobiphenyl	9.257	172	1138191	53.304	ng	0.00
79) Terphenyl-d14	13.010	244	963920	48.223	ng	0.00
Target Compounds						Qvalue
19) n-Nitroso-di-n-propyla...	7.463	70	74553	10.271	ng	# 76
25) Isophorone	7.463	82	534377	28.002	ng	# 62
51) 2,6-Dinitrotoluene	9.939	165	40121	10.964	ng	# 23
57) 2,4-Dinitrotoluene	9.939	165	40121	8.547	ng	# 25
63) Azobenzene	10.651	77	66578	3.569	ng	# 1
65) 4,6-Dinitro-2-methylph...	10.722	198	382	7.341	ng	# 1
67) 4-Bromophenyl-phenylether	10.722	248	13692	2.703	ng	# 1
71) Phenanthrene	11.445	178	347426	14.829	ng	99
72) Anthracene	11.498	178	100857	4.190	ng	99
75) Fluoranthene	12.639	202	900938	38.470	ng	99
77) Benzidine	13.010	184	11621	2.161	ng	# 94
78) Pyrene	12.869	202	874616	33.212	ng	99
80) Butylbenzylphthalate	13.480	149	380	3.705	ng	# 19
81) Benzo(a)anthracene	14.057	228	444800	23.215	ng	95
83) Chrysene	14.092	228	355122	19.910	ng	98
84) Bis(2-ethylhexyl)phtha...	14.045	149	9238	5.079	ng	# 94
85) Di-n-octyl phthalate	14.698	149	2859	7.972	ng	# 56
87) Indeno(1,2,3-cd)pyrene	17.056	276	170266	10.724	ng	94
88) Benzo(b)fluoranthene	15.121	252	553958	40.072	ng	99
89) Benzo(k)fluoranthene	15.121	252	553958	43.789	ng	98
90) Benzo(a)pyrene	15.492	252	283282	22.868	ng	99
91) Dibenzo(a,h)anthracene	17.068	278	41851	3.191	ng	# 89
92) Benzo(g,h,i)perylene	17.509	276	170292	13.080	ng	98

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

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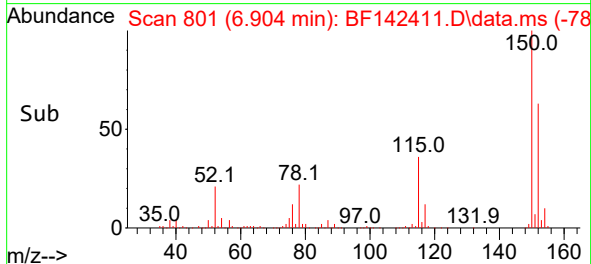
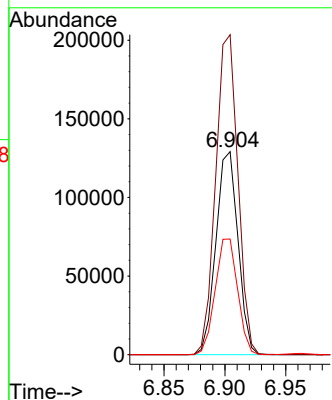
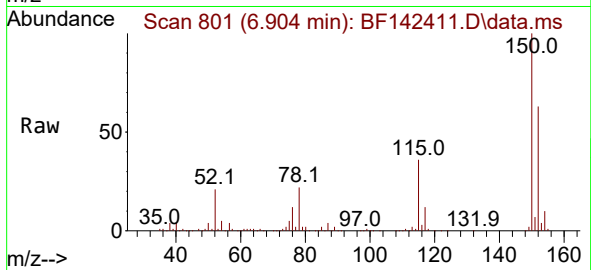




#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.904 min Scan# 801
 Delta R.T. 0.000 min
 Lab File: BF142411.D
 Acq: 16 May 2025 00:28

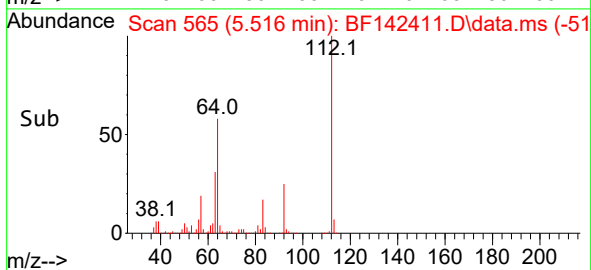
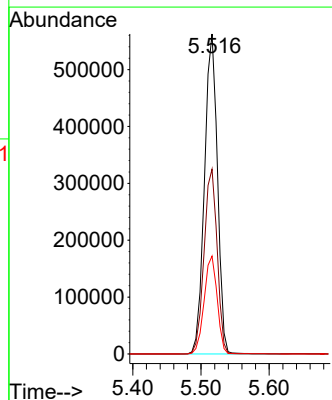
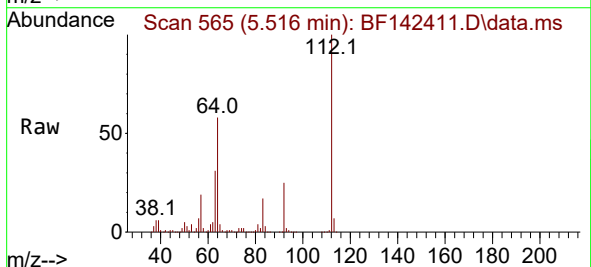
Instrument :
 BNA_F
 ClientSampleId :
 PL-02-051325

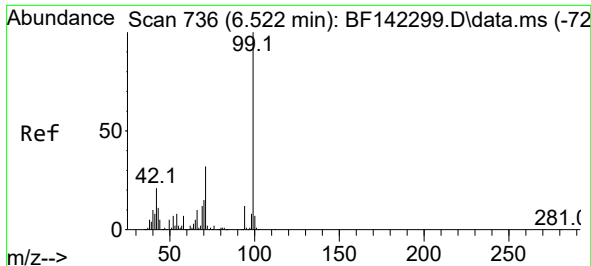
Tgt Ion:152 Resp: 162873
 Ion Ratio Lower Upper
 152 100
 150 157.6 126.6 190.0
 115 56.9 47.3 70.9



#5
 2-Fluorophenol
 Concen: 78.066 ng
 RT: 5.516 min Scan# 565
 Delta R.T. 0.006 min
 Lab File: BF142411.D
 Acq: 16 May 2025 00:28

Tgt Ion:112 Resp: 744828
 Ion Ratio Lower Upper
 112 100
 64 57.8 48.9 73.3
 63 30.6 25.6 38.4

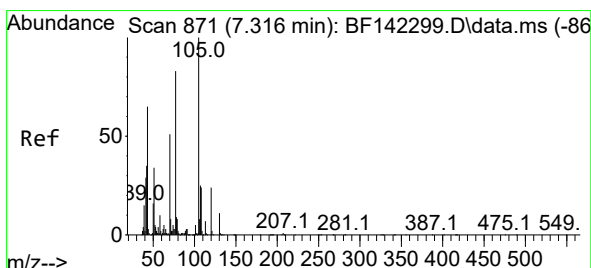
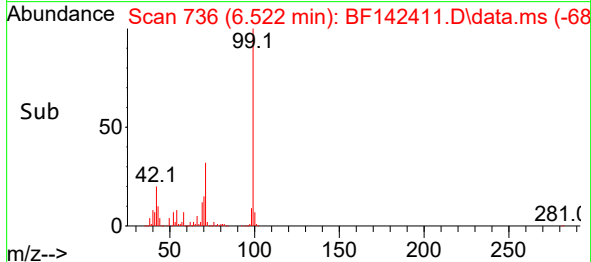
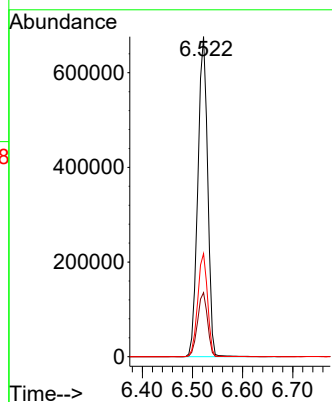
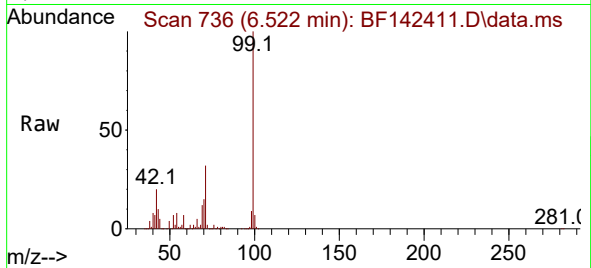




#7
Phenol-d6
Concen: 78.191 ng
RT: 6.522 min Scan# 71
Delta R.T. -0.000 min
Lab File: BF142411.D
Acq: 16 May 2025 00:28

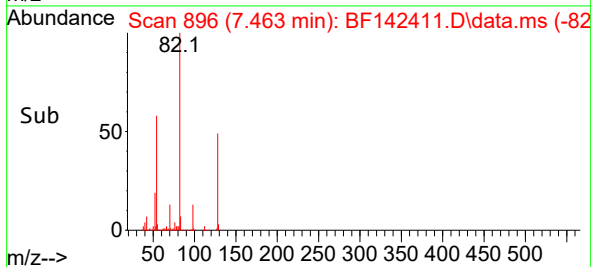
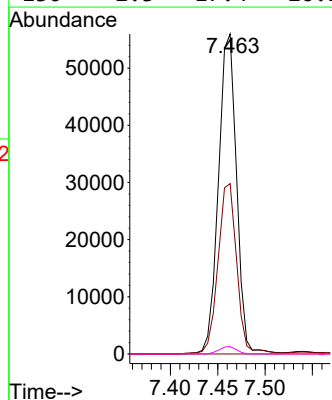
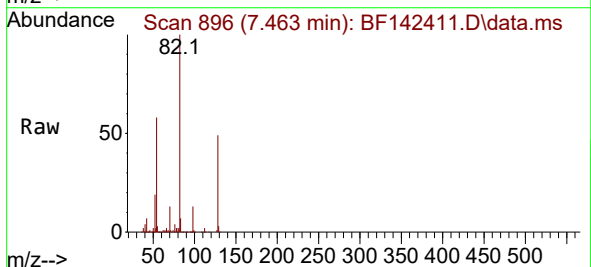
Instrument :
BNA_F
ClientSampleId :
PL-02-051325

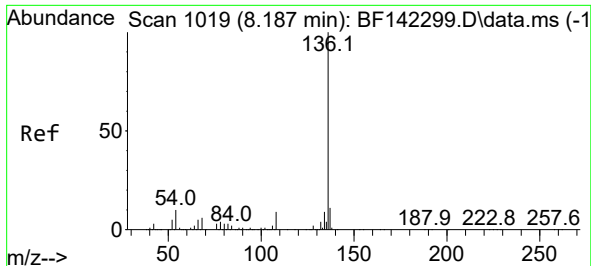
Tgt Ion: 99 Resp: 917555
Ion Ratio Lower Upper
99 100
42 20.0 17.0 25.4
71 32.2 25.8 38.8



#19
n-Nitroso-di-n-propylamine
Concen: 10.271 ng
RT: 7.463 min Scan# 896
Delta R.T. 0.147 min
Lab File: BF142411.D
Acq: 16 May 2025 00:28

Tgt Ion: 70 Resp: 74553
Ion Ratio Lower Upper
70 100
42 53.3 54.8 82.2#
101 0.0 7.7 11.5#
130 2.3 17.4 26.2#





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.186 min Scan# 1019

Delta R.T. -0.000 min

Lab File: BF142411.D

Acq: 16 May 2025 00:28

Instrument :

BNA_F

ClientSampleId :

PL-02-051325

Tgt Ion:136 Resp: 614619

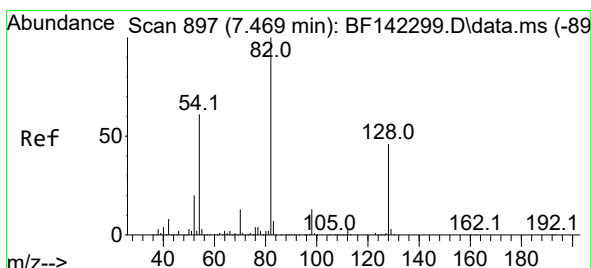
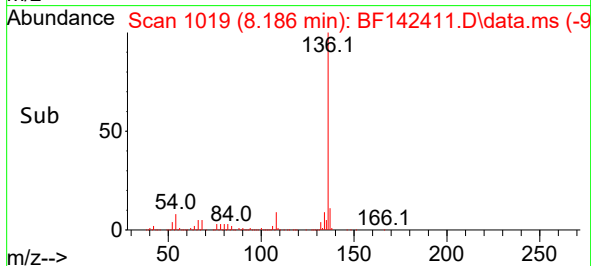
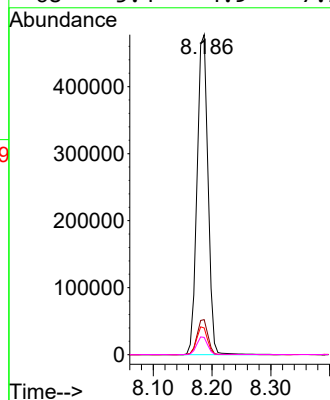
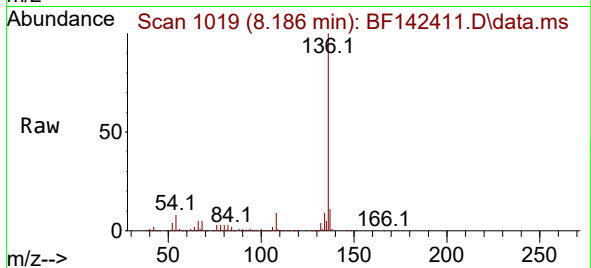
Ion Ratio Lower Upper

136 100

137 10.9 8.9 13.3

54 8.4 7.7 11.5

68 5.4 4.9 7.3



#23

Nitrobenzene-d5

Concen: 54.207 ng

RT: 7.463 min Scan# 896

Delta R.T. -0.006 min

Lab File: BF142411.D

Acq: 16 May 2025 00:28

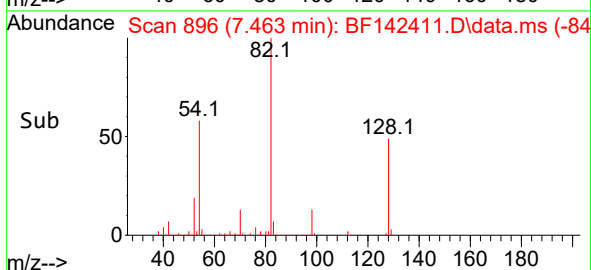
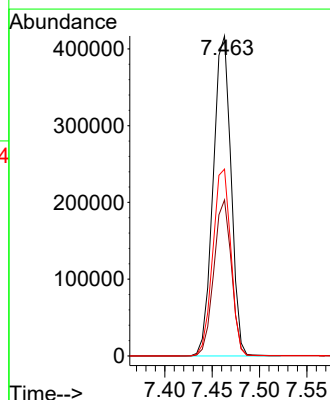
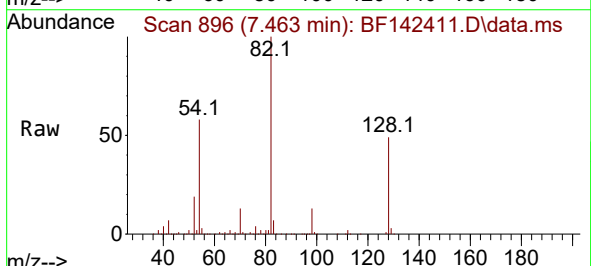
Tgt Ion: 82 Resp: 546290

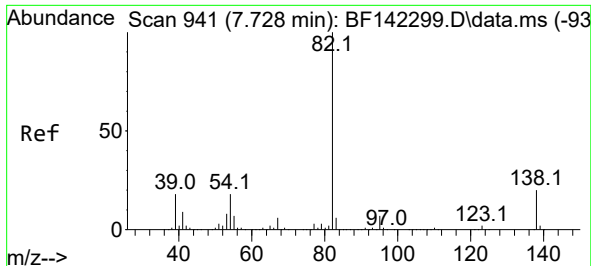
Ion Ratio Lower Upper

82 100

128 48.7 37.0 55.6

54 58.4 48.6 73.0

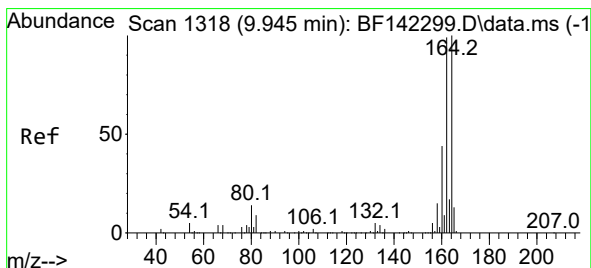
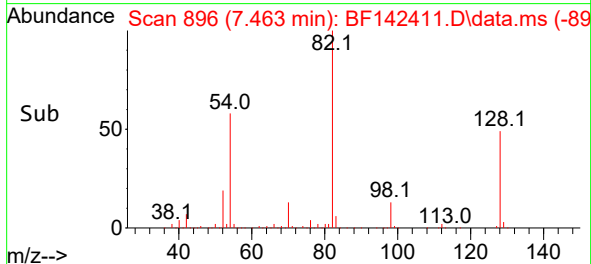
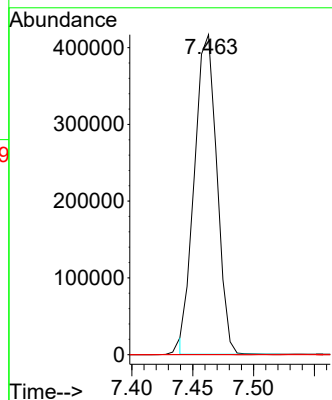
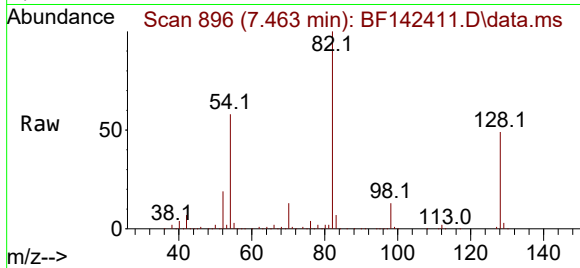




#25
Isophorone
Concen: 28.002 ng
RT: 7.463 min Scan# 896
Delta R.T. -0.265 min
Lab File: BF142411.D
Acq: 16 May 2025 00:28

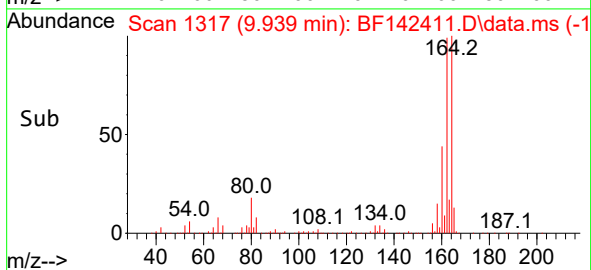
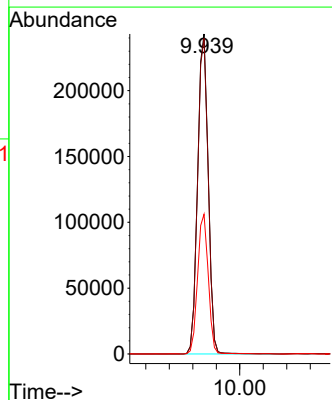
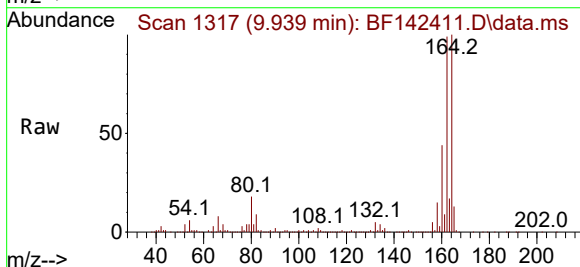
Instrument :
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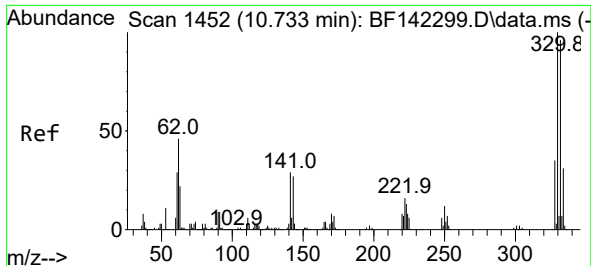
Tgt Ion: 82 Resp: 534377
Ion Ratio Lower Upper
82 100
95 0.1 5.8 8.8#
138 0.0 16.1 24.1#



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.939 min Scan# 1317
Delta R.T. -0.006 min
Lab File: BF142411.D
Acq: 16 May 2025 00:28

Tgt Ion:164 Resp: 304465
Ion Ratio Lower Upper
164 100
162 98.7 79.2 118.8
160 43.6 35.3 52.9

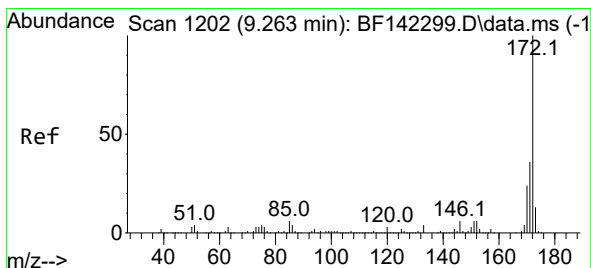
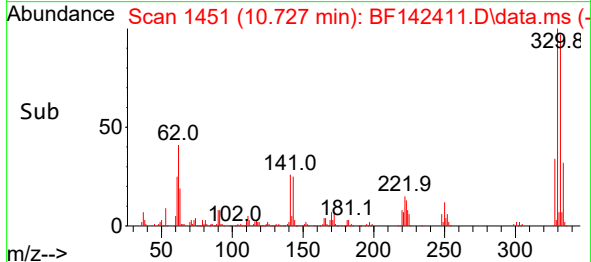
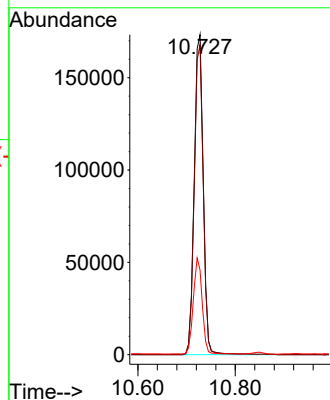
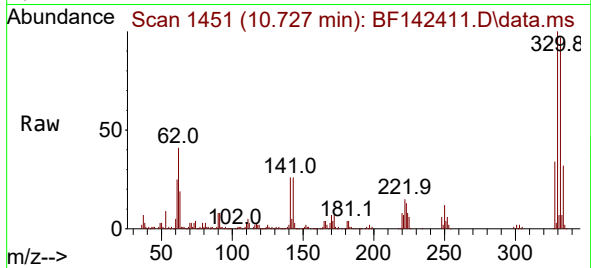




#42
2,4,6-Tribromophenol
Concen: 76.471 ng
RT: 10.727 min Scan# 1451
Delta R.T. -0.006 min
Lab File: BF142411.D
Acq: 16 May 2025 00:28

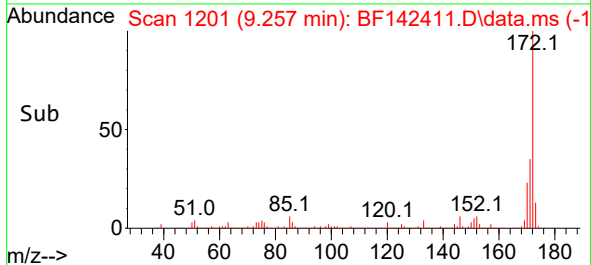
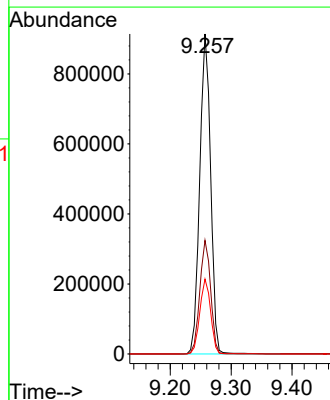
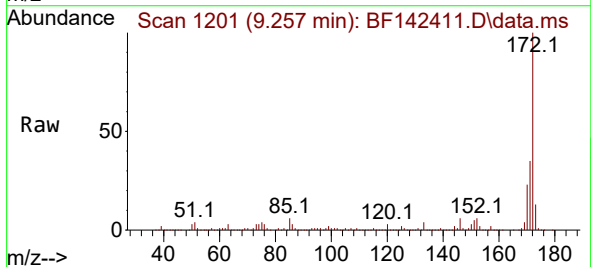
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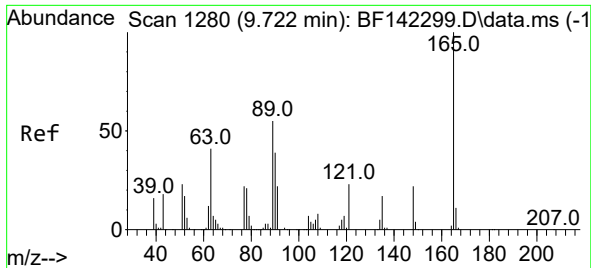
Tgt Ion: 330 Resp: 224792
Ion Ratio Lower Upper
330 100
332 96.3 76.8 115.2
141 29.2 24.9 37.3



#45
2-Fluorobiphenyl
Concen: 53.304 ng
RT: 9.257 min Scan# 1201
Delta R.T. -0.006 min
Lab File: BF142411.D
Acq: 16 May 2025 00:28

Tgt Ion: 172 Resp: 1138191
Ion Ratio Lower Upper
172 100
171 35.5 28.6 42.8
170 23.4 19.0 28.4





#51

2,6-Dinitrotoluene

Concen: 10.964 ng

RT: 9.939 min Scan# 1317

Delta R.T. 0.218 min

Lab File: BF142411.D

Acq: 16 May 2025 00:28

Instrument :

BNA_F

ClientSampleId :

PL-02-051325

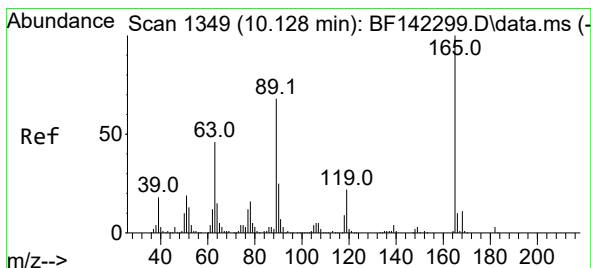
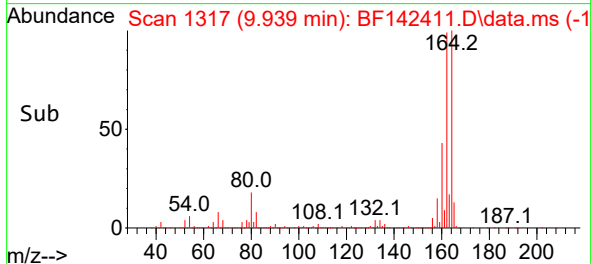
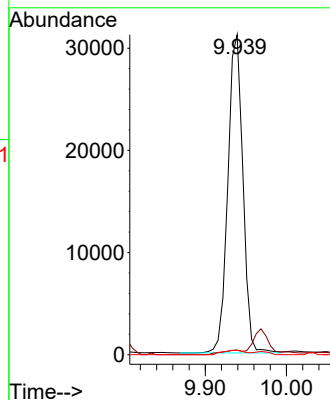
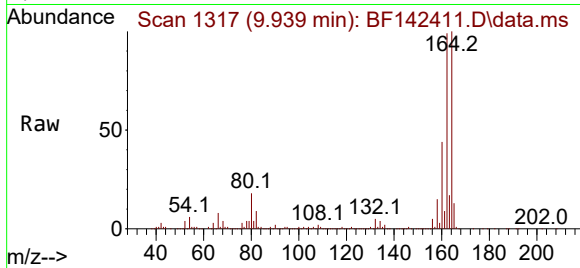
Tgt Ion:165 Resp: 40121

Ion Ratio Lower Upper

165 100

63 1.4 49.5 74.3#

89 1.4 44.6 66.8#



#57

2,4-Dinitrotoluene

Concen: 8.547 ng

RT: 9.939 min Scan# 1317

Delta R.T. -0.188 min

Lab File: BF142411.D

Acq: 16 May 2025 00:28

Tgt Ion:165 Resp: 40121

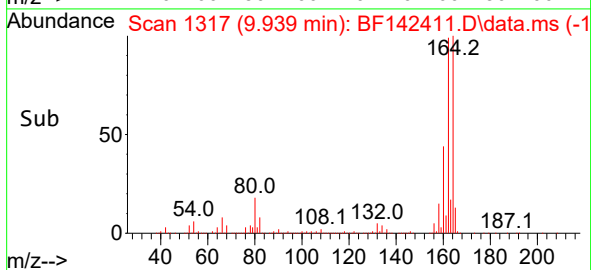
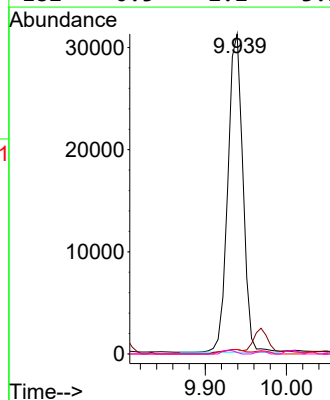
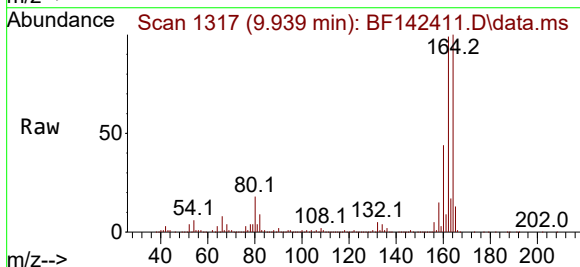
Ion Ratio Lower Upper

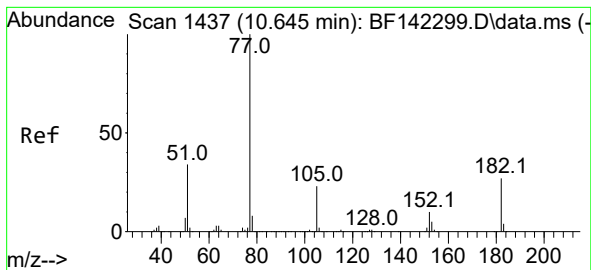
165 100

63 1.4 37.1 55.7#

89 1.4 54.4 81.6#

182 0.5 2.2 3.2#





#63

Azobenzene

Concen: 3.569 ng

RT: 10.651 min Scan# 1437

Delta R.T. 0.006 min

Lab File: BF142411.D

Acq: 16 May 2025 00:28

Instrument :

BNA_F

ClientSampleId :

PL-02-051325

Tgt Ion: 77 Resp: 66578

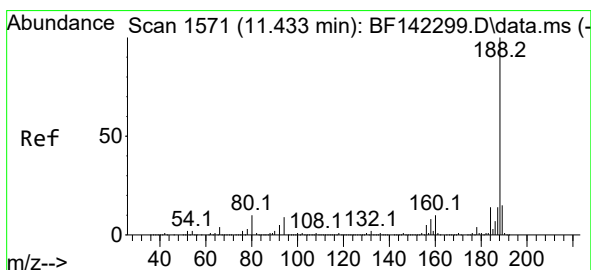
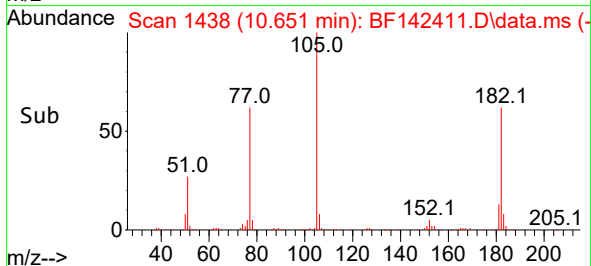
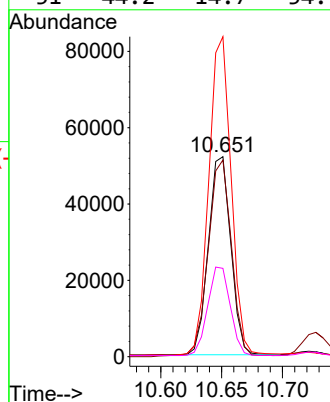
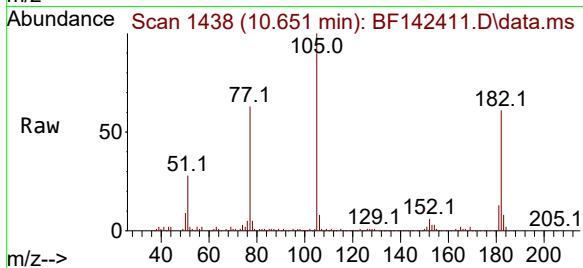
Ion Ratio Lower Upper

77 100

182 98.3 6.9 46.9#

105 160.0 2.7 42.7#

51 44.2 14.7 54.7



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.422 min Scan# 1569

Delta R.T. -0.012 min

Lab File: BF142411.D

Acq: 16 May 2025 00:28

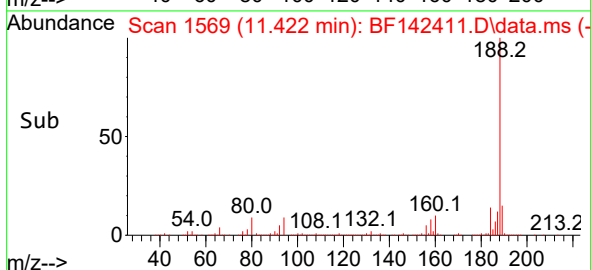
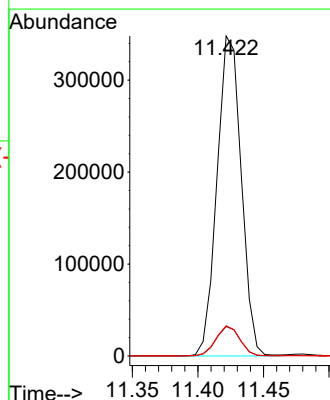
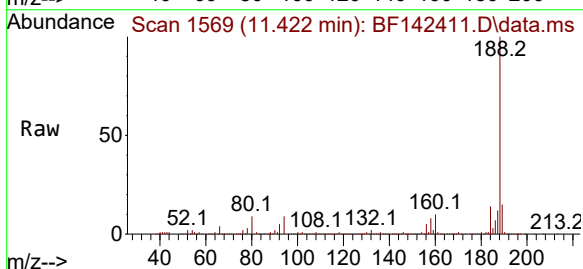
Tgt Ion: 188 Resp: 446956

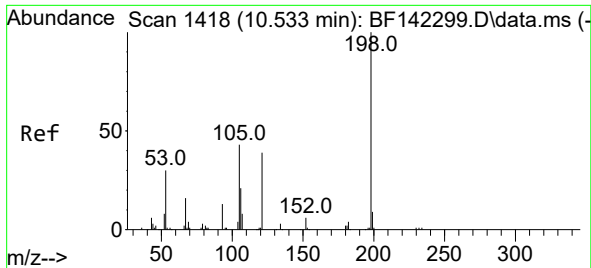
Ion Ratio Lower Upper

188 100

94 9.2 7.5 11.3

80 9.4 7.9 11.9

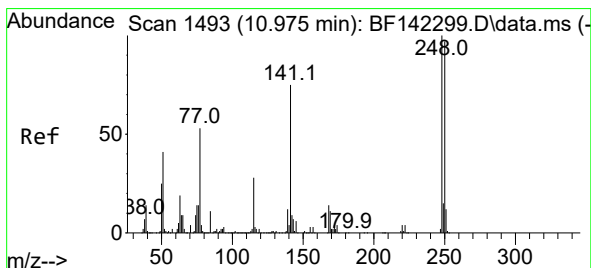
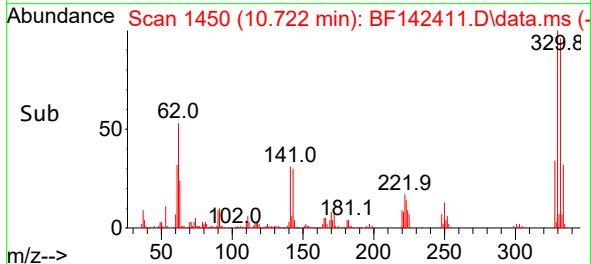
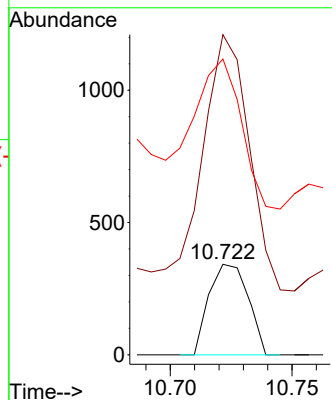
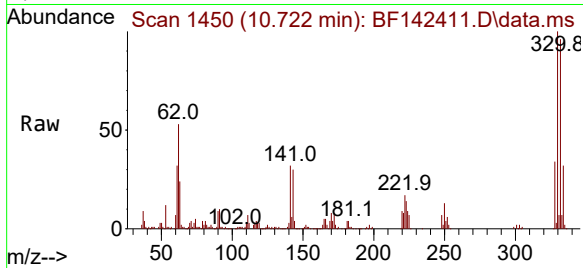




#65
4,6-Dinitro-2-methylphenol
Concen: 7.341 ng
RT: 10.722 min Scan# 1418
Delta R.T. 0.189 min
Lab File: BF142411.D
Acq: 16 May 2025 00:28

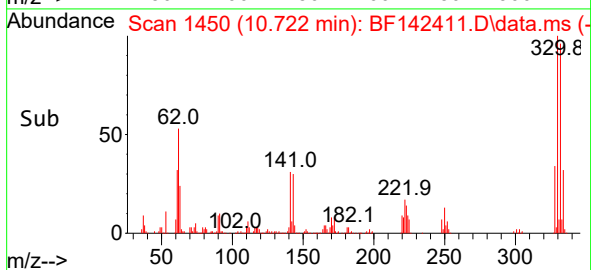
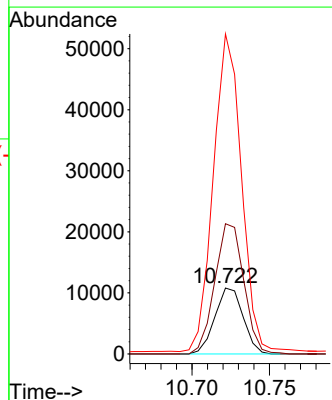
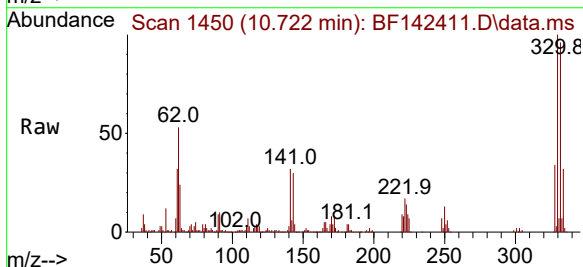
Instrument :
BNA_F
ClientSampleId :
PL-02-051325

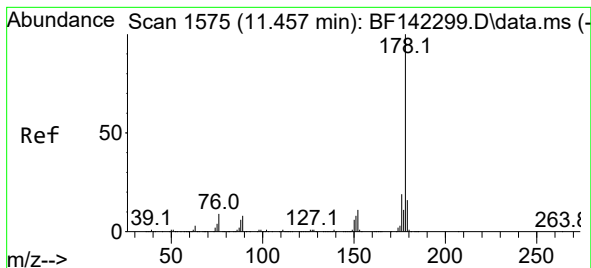
Tgt Ion:198 Resp: 382
Ion Ratio Lower Upper
198 100
51 353.8 32.9 72.9#
105 326.9 23.7 63.7#



#67
4-Bromophenyl-phenylether
Concen: 2.703 ng
RT: 10.722 min Scan# 1450
Delta R.T. -0.253 min
Lab File: BF142411.D
Acq: 16 May 2025 00:28

Tgt Ion:248 Resp: 13692
Ion Ratio Lower Upper
248 100
250 197.3 77.9 116.9#
141 484.9 59.8 89.8#





#71

Phenanthrene

Concen: 14.829 ng

RT: 11.445 min Scan# 1

Delta R.T. -0.012 min

Lab File: BF142411.D

Acq: 16 May 2025 00:28

Instrument :

BNA_F

ClientSampleId :

PL-02-051325

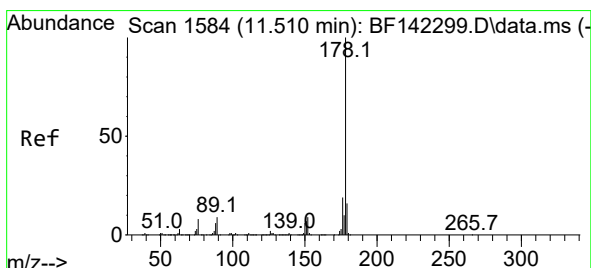
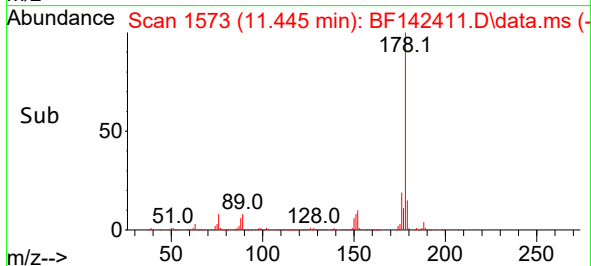
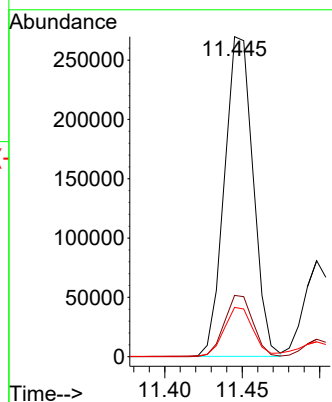
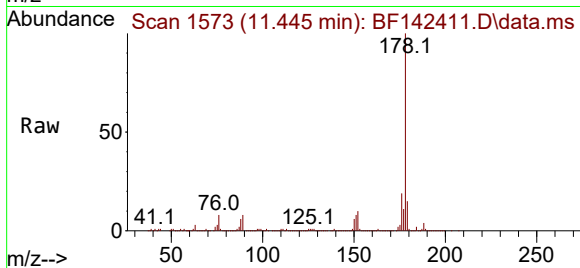
Tgt Ion:178 Resp: 347426

Ion Ratio Lower Upper

178 100

176 19.1 15.5 23.3

179 15.4 12.6 18.8



#72

Anthracene

Concen: 4.190 ng

RT: 11.498 min Scan# 1582

Delta R.T. -0.012 min

Lab File: BF142411.D

Acq: 16 May 2025 00:28

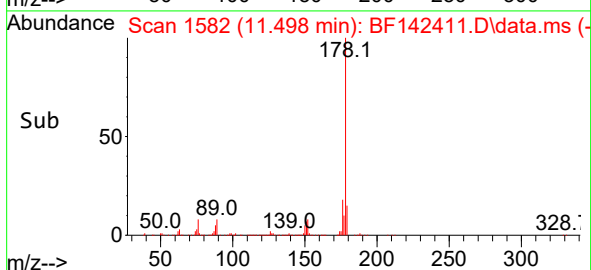
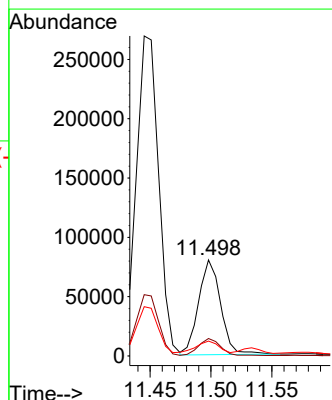
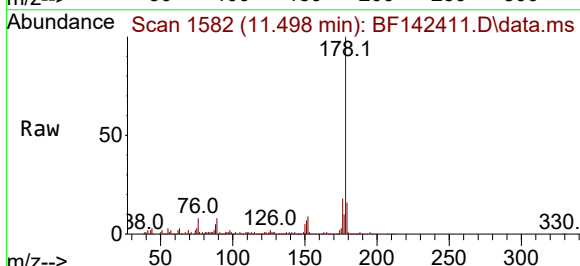
Tgt Ion:178 Resp: 100857

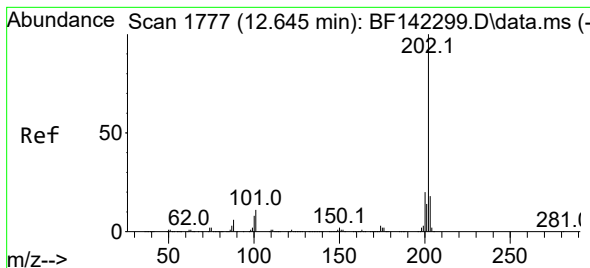
Ion Ratio Lower Upper

178 100

176 18.1 15.3 22.9

179 15.6 12.6 18.8





#75

Fluoranthene

Concen: 38.470 ng

RT: 12.639 min Scan# 1776

Delta R.T. -0.006 min

Lab File: BF142411.D

Acq: 16 May 2025 00:28

Instrument :

BNA_F

ClientSampleId :

PL-02-051325

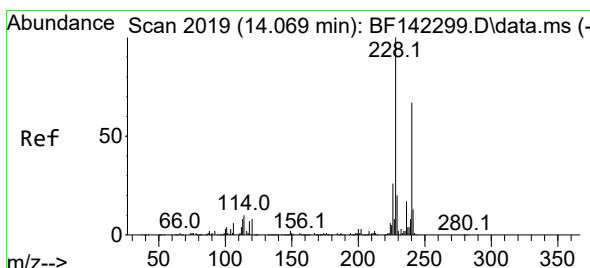
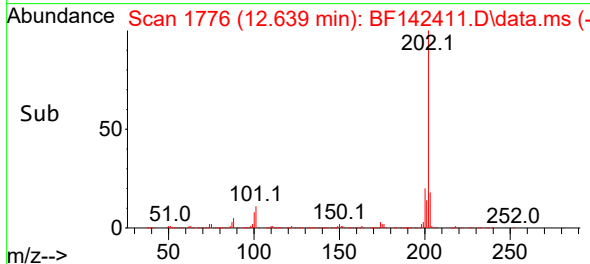
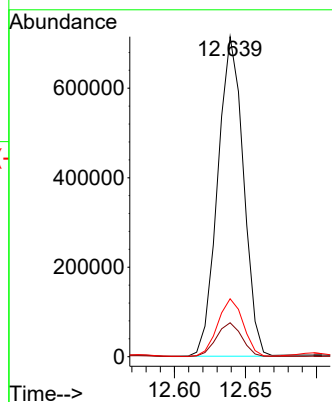
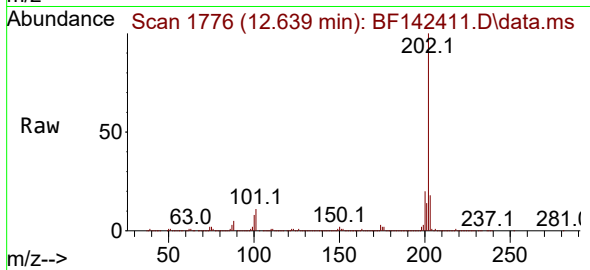
Tgt Ion:202 Resp: 900938

Ion Ratio Lower Upper

202 100

101 10.6 0.0 31.4

203 18.1 0.0 37.9



#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.068 min Scan# 2019

Delta R.T. -0.000 min

Lab File: BF142411.D

Acq: 16 May 2025 00:28

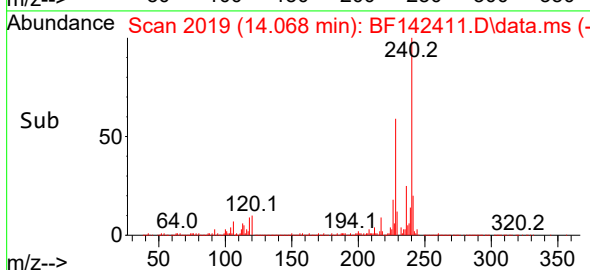
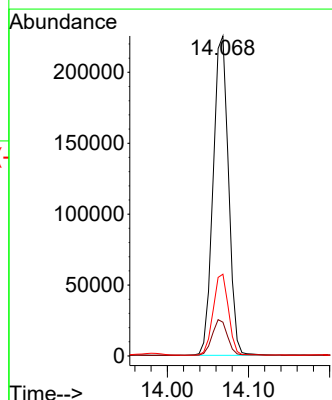
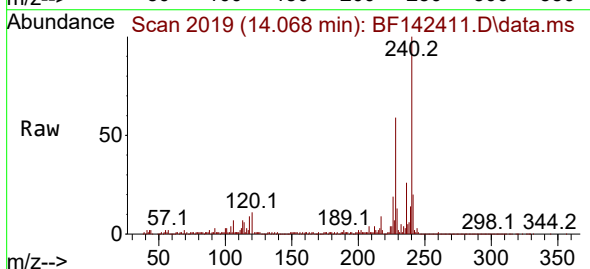
Tgt Ion:240 Resp: 295855

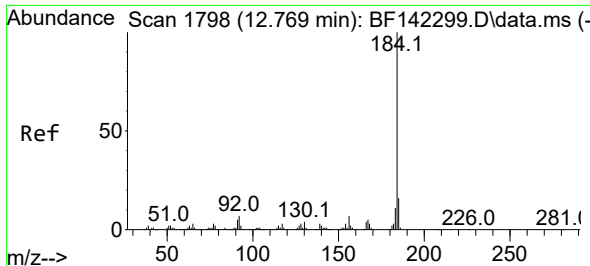
Ion Ratio Lower Upper

240 100

120 10.6 9.7 14.5

236 25.5 20.0 30.0

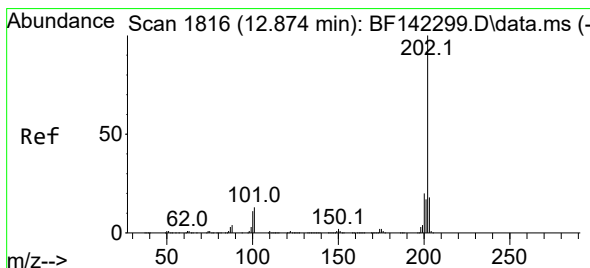
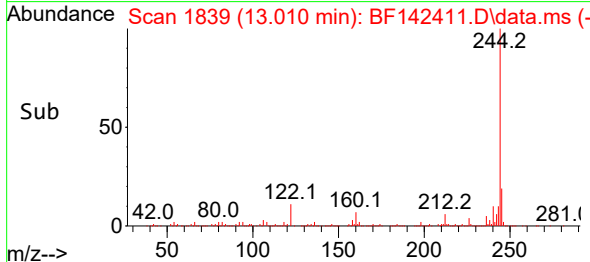
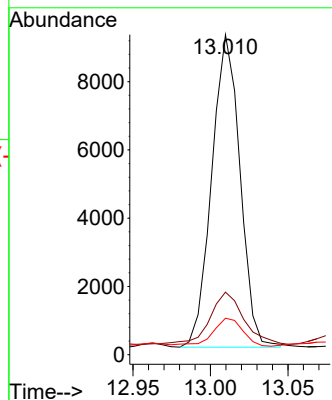
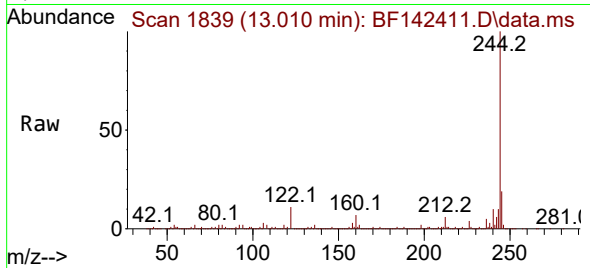




#77
Benzidine
Concen: 2.161 ng
RT: 13.010 min Scan# 1839
Delta R.T. 0.241 min
Lab File: BF142411.D
Acq: 16 May 2025 00:28

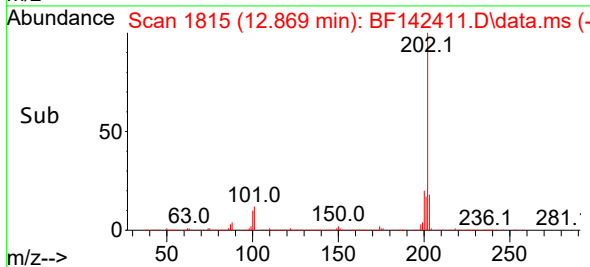
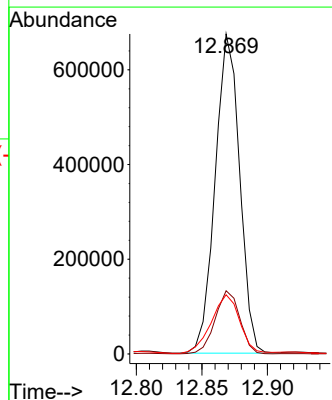
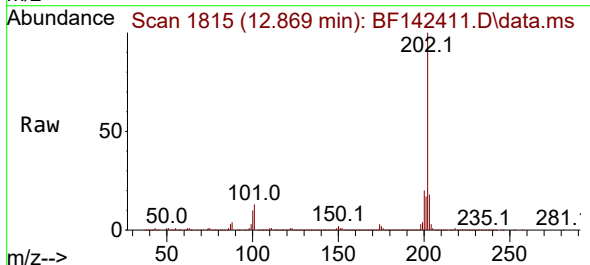
Instrument :
BNA_F
ClientSampleId :
PL-02-051325

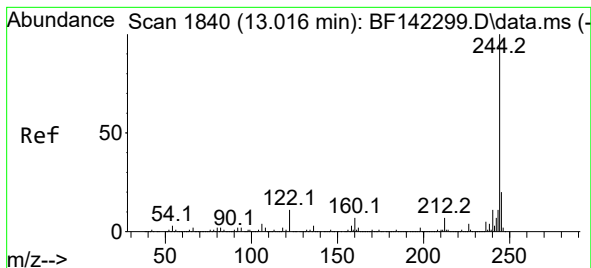
Tgt Ion:184 Resp: 11621
Ion Ratio Lower Upper
184 100
185 19.6 12.6 18.8#
183 11.4 8.6 12.8



#78
Pyrene
Concen: 33.212 ng
RT: 12.869 min Scan# 1815
Delta R.T. -0.006 min
Lab File: BF142411.D
Acq: 16 May 2025 00:28

Tgt Ion:202 Resp: 874616
Ion Ratio Lower Upper
202 100
200 19.7 16.2 24.4
203 18.5 14.3 21.5





#79

Terphenyl-d14

Concen: 48.223 ng

RT: 13.010 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF142411.D

Acq: 16 May 2025 00:28

Instrument :

BNA_F

ClientSampleId :

PL-02-051325

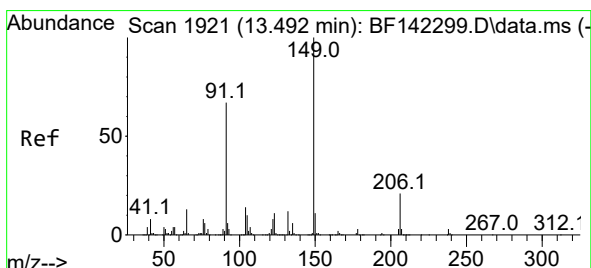
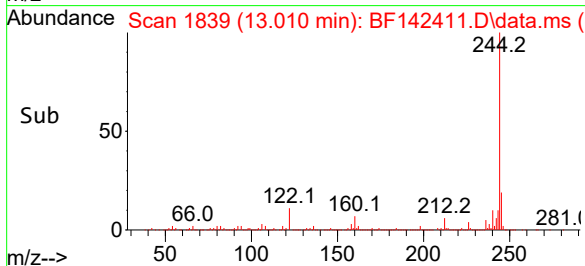
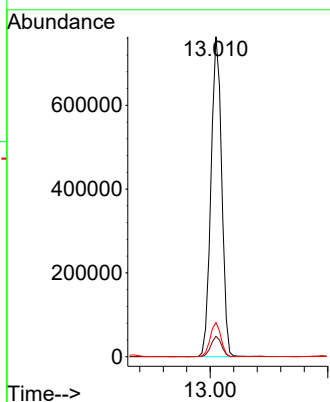
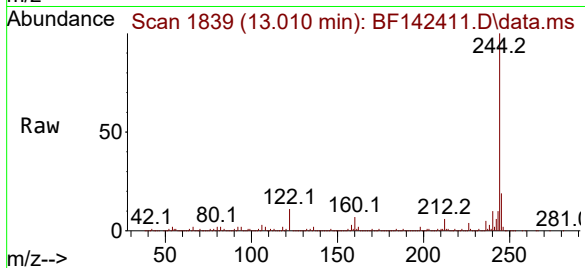
Tgt Ion:244 Resp: 963920

Ion Ratio Lower Upper

244 100

212 6.3 5.4 8.2

122 10.7 9.0 13.4



#80

Butylbenzylphthalate

Concen: 3.705 ng

RT: 13.480 min Scan# 1919

Delta R.T. -0.012 min

Lab File: BF142411.D

Acq: 16 May 2025 00:28

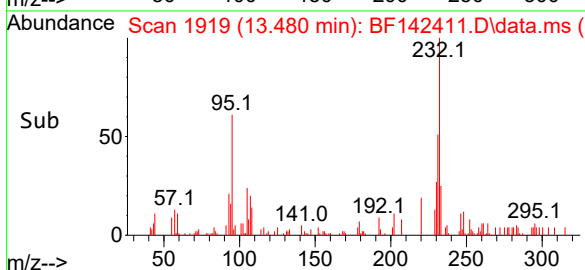
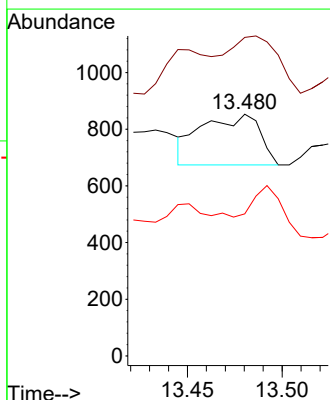
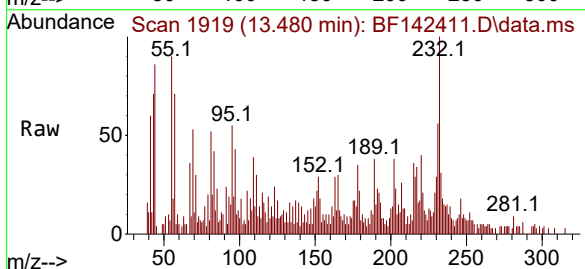
Tgt Ion:149 Resp: 380

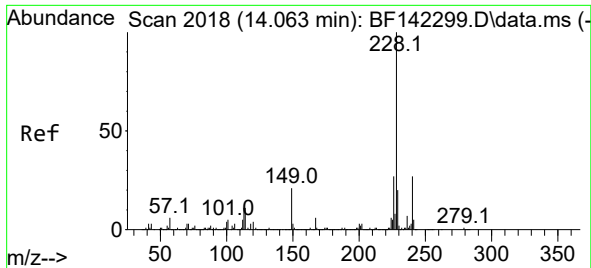
Ion Ratio Lower Upper

149 100

91 131.8 53.8 80.6#

206 58.7 16.6 24.8#

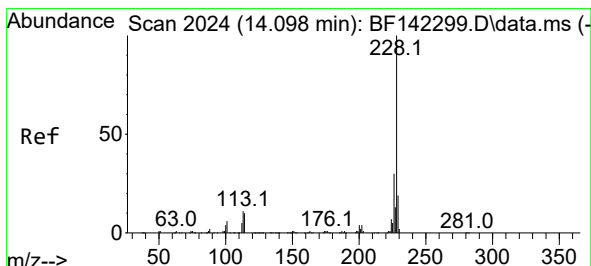
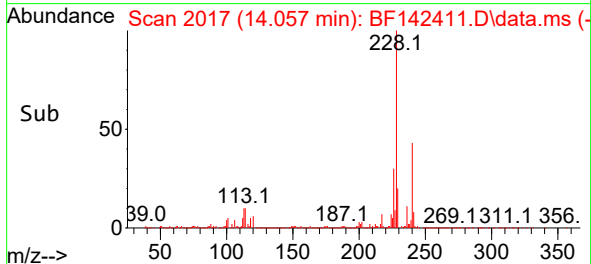
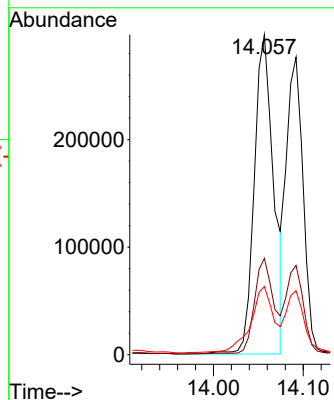
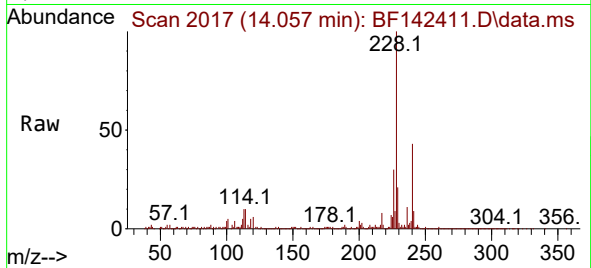




#81
Benzo(a)anthracene
Concen: 23.215 ng
RT: 14.057 min Scan# 20
Delta R.T. -0.006 min
Lab File: BF142411.D
Acq: 16 May 2025 00:28

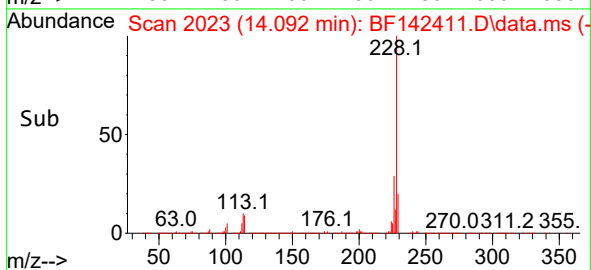
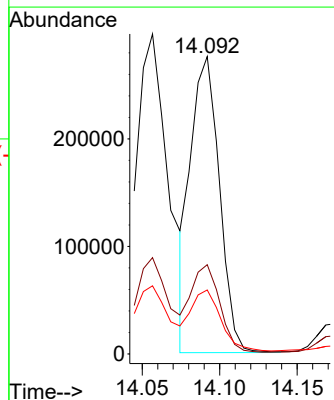
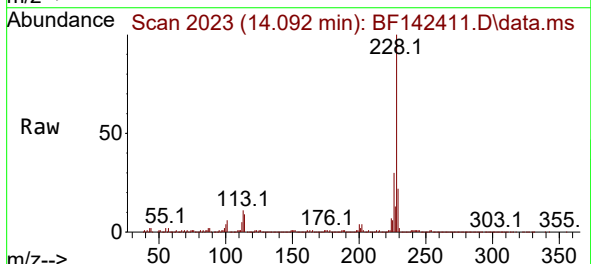
Instrument :
BNA_F
ClientSampleId :
PL-02-051325

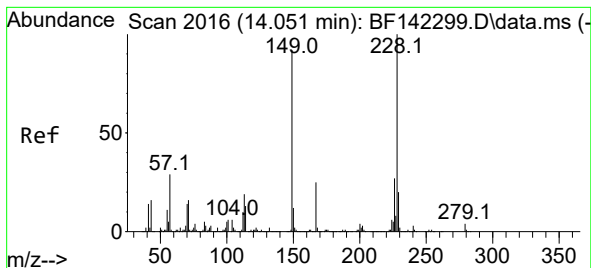
Tgt Ion:228 Resp: 444800
Ion Ratio Lower Upper
228 100
226 30.1 21.5 32.3
229 21.3 15.9 23.9



#83
Chrysene
Concen: 19.910 ng
RT: 14.092 min Scan# 2023
Delta R.T. -0.006 min
Lab File: BF142411.D
Acq: 16 May 2025 00:28

Tgt Ion:228 Resp: 355122
Ion Ratio Lower Upper
228 100
226 30.0 23.9 35.9
229 21.5 15.4 23.2





#84

Bis(2-ethylhexyl)phthalate

Concen: 5.079 ng

RT: 14.045 min Scan# 2016

Delta R.T. -0.006 min

Lab File: BF142411.D

Acq: 16 May 2025 00:28

Instrument :

BNA_F

ClientSampleId :

PL-02-051325

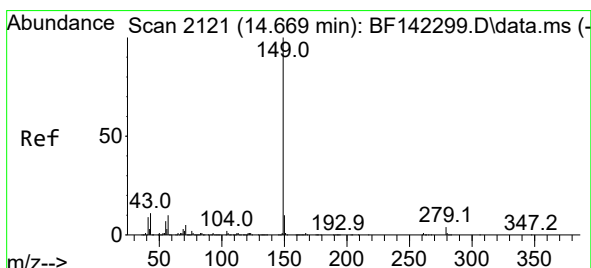
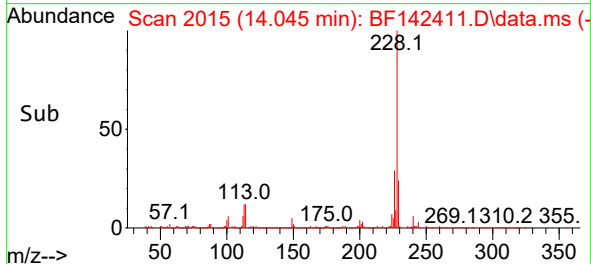
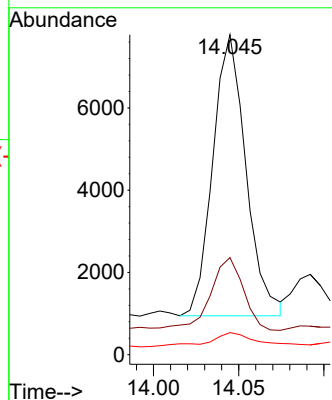
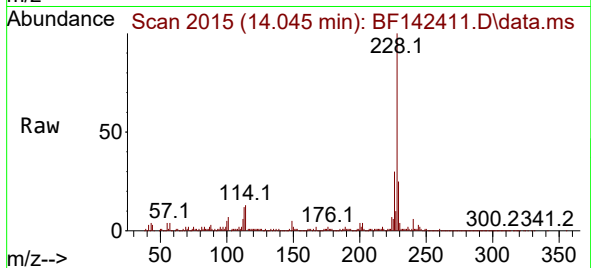
Tgt Ion:149 Resp: 9238

Ion Ratio Lower Upper

149 100

167 30.3 22.0 33.0

279 6.9 3.0 4.6#



#85

Di-n-octyl phthalate

Concen: 7.972 ng

RT: 14.698 min Scan# 2126

Delta R.T. 0.029 min

Lab File: BF142411.D

Acq: 16 May 2025 00:28

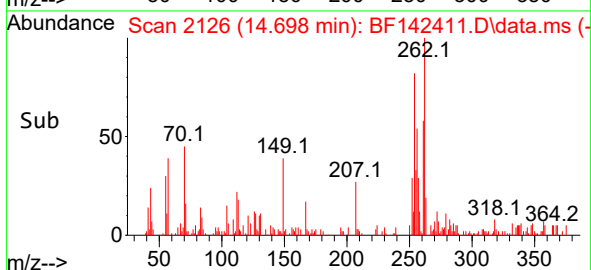
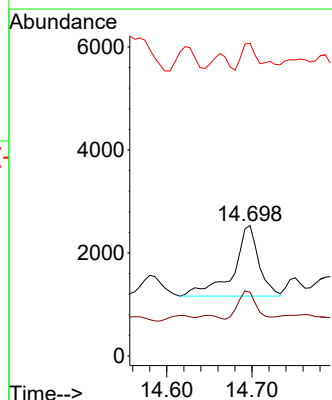
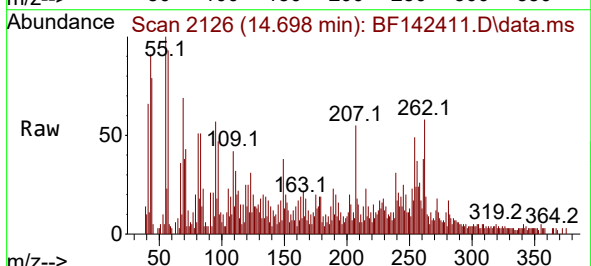
Tgt Ion:149 Resp: 2859

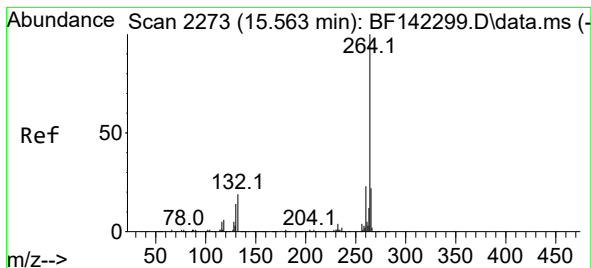
Ion Ratio Lower Upper

149 100

167 27.9 1.1 1.7#

43 27.2 9.2 13.8#





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.557 min Scan# 21

Delta R.T. -0.006 min

Lab File: BF142411.D

Acq: 16 May 2025 00:28

Instrument :

BNA_F

ClientSampleId :

PL-02-051325

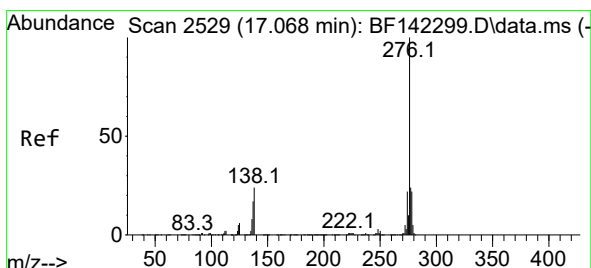
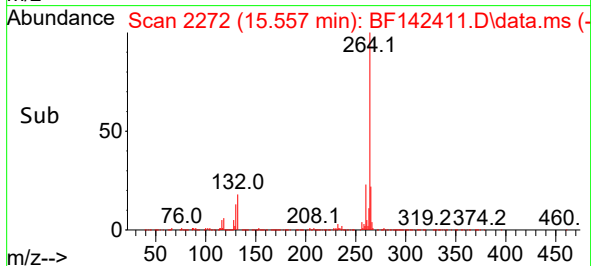
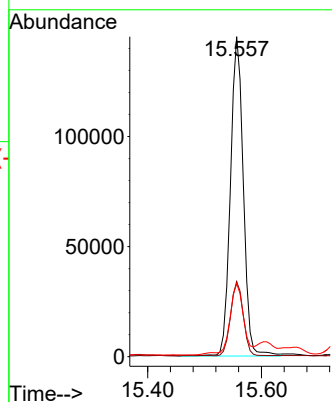
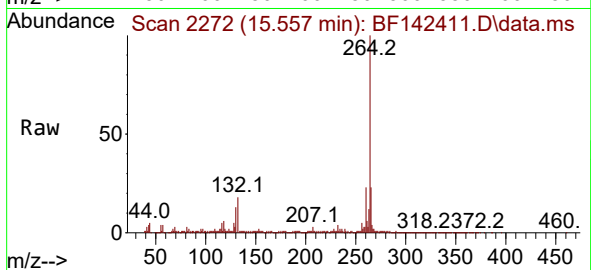
Tgt Ion:264 Resp: 228248

Ion Ratio Lower Upper

264 100

260 23.5 18.6 27.8

265 22.8 17.5 26.3



#87

Indeno(1,2,3-cd)pyrene

Concen: 10.724 ng

RT: 17.056 min Scan# 2527

Delta R.T. -0.012 min

Lab File: BF142411.D

Acq: 16 May 2025 00:28

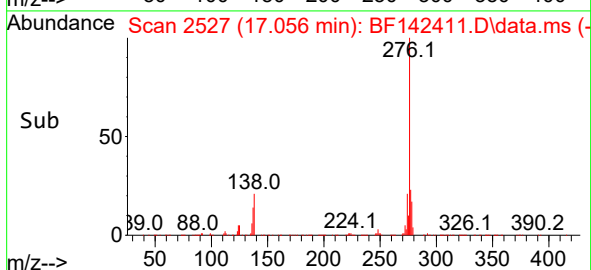
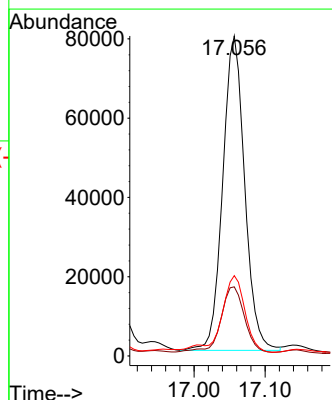
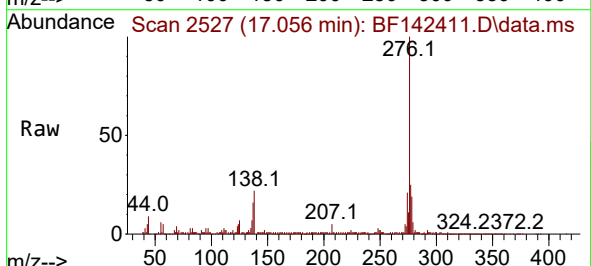
Tgt Ion:276 Resp: 170266

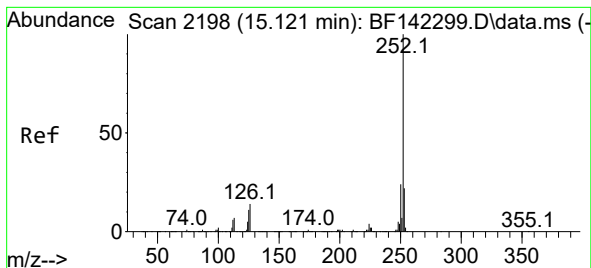
Ion Ratio Lower Upper

276 100

138 22.7 22.0 33.0

277 26.5 20.1 30.1





#88

Benzo(b)fluoranthene

Concen: 40.072 ng

RT: 15.121 min Scan# 2198

Delta R.T. -0.000 min

Lab File: BF142411.D

Acq: 16 May 2025 00:28

Instrument :

BNA_F

ClientSampleId :

PL-02-051325

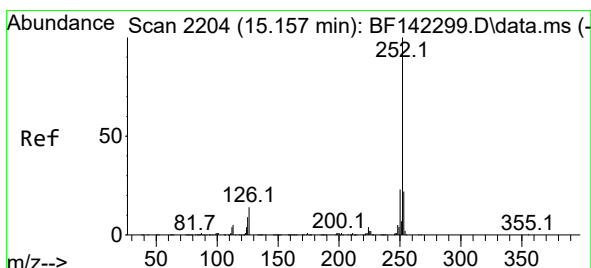
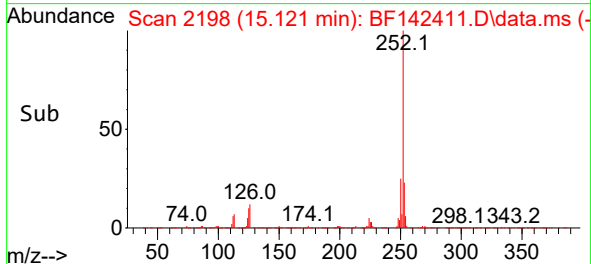
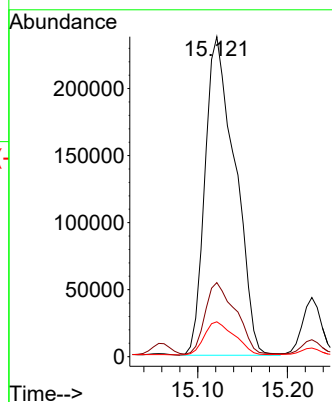
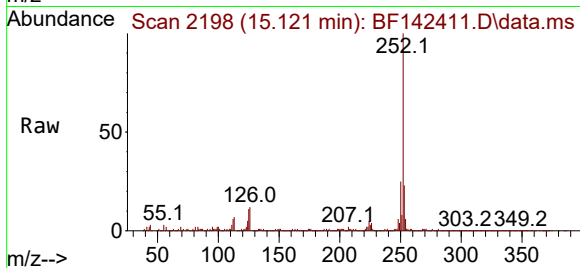
Tgt Ion:252 Resp: 553958

Ion Ratio Lower Upper

252 100

253 23.2 17.7 26.5

125 10.9 8.7 13.1



#89

Benzo(k)fluoranthene

Concen: 43.789 ng

RT: 15.121 min Scan# 2198

Delta R.T. -0.035 min

Lab File: BF142411.D

Acq: 16 May 2025 00:28

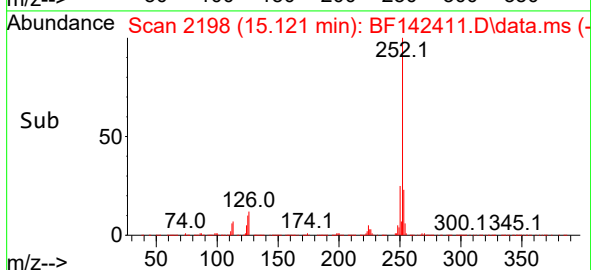
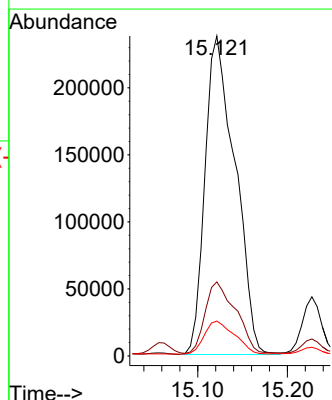
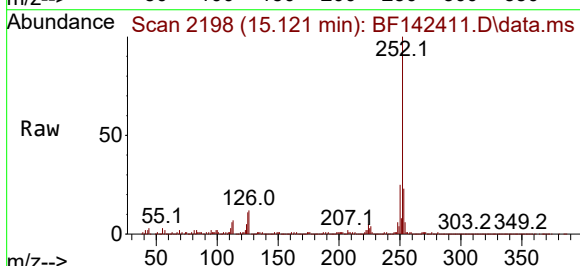
Tgt Ion:252 Resp: 553958

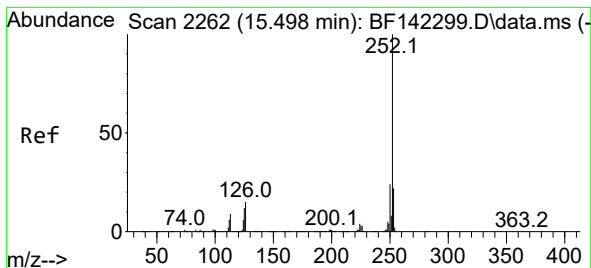
Ion Ratio Lower Upper

252 100

253 23.2 17.6 26.4

125 10.9 8.1 12.1





#90

Benzo(a)pyrene

Concen: 22.868 ng

RT: 15.492 min Scan# 21

Delta R.T. -0.006 min

Lab File: BF142411.D

Acq: 16 May 2025 00:28

Instrument :

BNA_F

ClientSampleId :

PL-02-051325

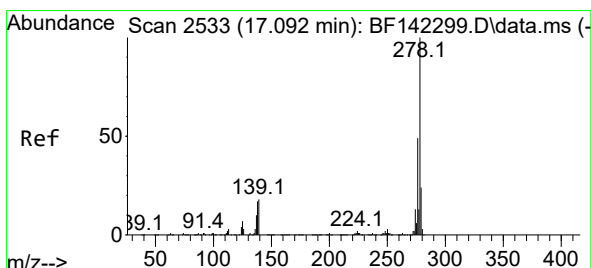
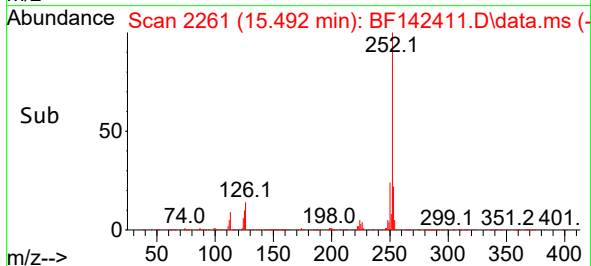
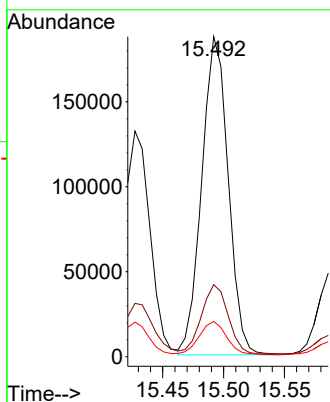
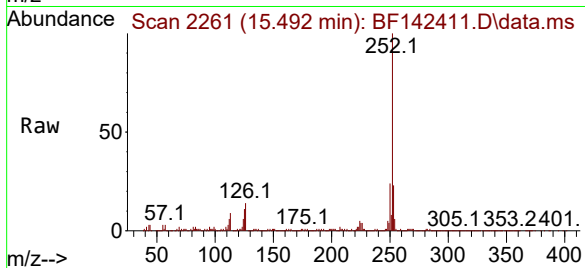
Tgt Ion:252 Resp: 283282

Ion Ratio Lower Upper

252 100

253 22.5 17.8 26.6

125 11.0 9.4 14.0



#91

Dibenzo(a,h)anthracene

Concen: 3.191 ng

RT: 17.068 min Scan# 2529

Delta R.T. -0.024 min

Lab File: BF142411.D

Acq: 16 May 2025 00:28

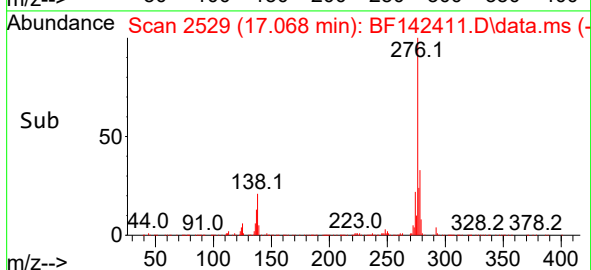
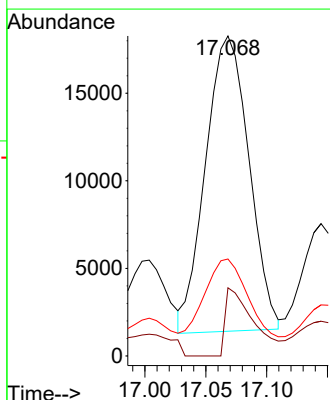
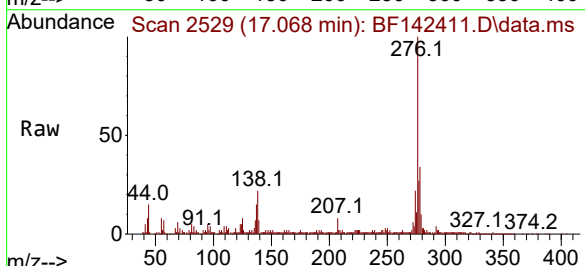
Tgt Ion:278 Resp: 41851

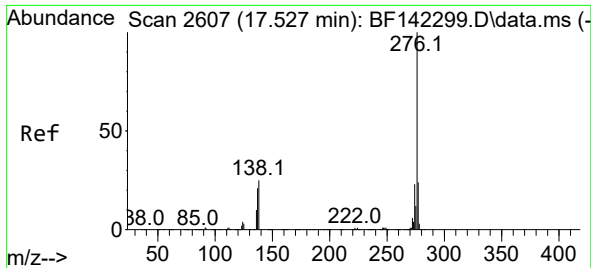
Ion Ratio Lower Upper

278 100

139 21.3 14.5 21.7

279 30.3 18.9 28.3#





#92
 Benzo(g,h,i)perylene
 Concen: 13.080 ng
 RT: 17.509 min Scan# 20
 Delta R.T. -0.018 min
 Lab File: BF142411.D
 Acq: 16 May 2025 00:28

Instrument :
 BNA_F
 ClientSampleId :
 PL-02-051325

Tgt Ion:	276	Resp:	170292
Ion	Ratio	Lower	Upper
276	100		
277	23.6	19.0	28.6
138	22.5	19.8	29.6

