

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
 Data File : BF141866.D
 Acq On : 06 Mar 2025 14:01
 Operator : RC/JU
 Sample : Q1489-05RE
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP-2

Quant Time: Mar 06 14:20:06 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Feb 28 01:48:16 2025
 Response via : Initial Calibration

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

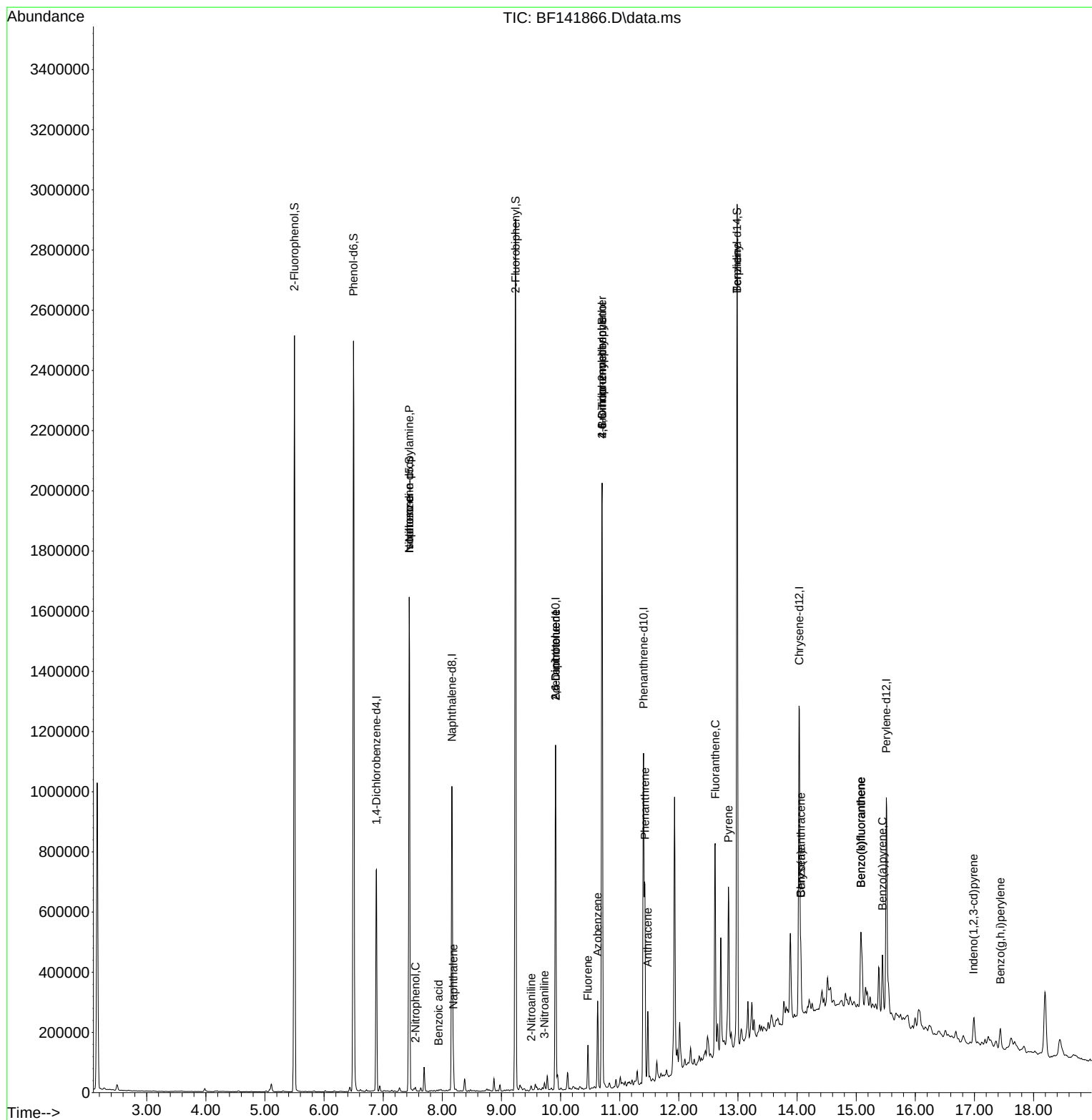
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.886	152	156672	20.000	ng	0.00
21) Naphthalene-d8	8.163	136	614163	20.000	ng	-0.01
39) Acenaphthene-d10	9.916	164	329629	20.000	ng	-0.01
64) Phenanthrene-d10	11.404	188	559552	20.000	ng	0.00
76) Chrysene-d12	14.039	240	404198	20.000	ng	-0.01
86) Perylene-d12	15.509	264	425654	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.498	112	935267	95.334	ng	0.00
7) Phenol-d6	6.498	99	1181351	92.516	ng	-0.01
23) Nitrobenzene-d5	7.439	82	724150	75.367	ng	-0.01
42) 2,4,6-Tribromophenol	10.704	330	334813	108.192	ng	-0.01
45) 2-Fluorobiphenyl	9.239	172	1296112	63.048	ng	0.00
79) Terphenyl-d14	12.986	244	1324842	53.031	ng	-0.01
Target Compounds						Qvalue
19) n-Nitroso-di-n-propyla...	7.439	70	99402	11.842	ng	# 77
25) Isophorone	7.439	82	720640	34.911	ng	# 66
26) 2-Nitrophenol	7.545	139	56	4.561	ng	# 32
31) Naphthalene	8.186	128	64727	2.051	ng	99
32) Benzoic acid	7.939	122	425	7.747	ng	# 33
48) 2-Nitroaniline	9.504	65	111	4.359	ng	# 6
51) 2,6-Dinitrotoluene	9.916	165	43345	12.488	ng	# 21
53) 3-Nitroaniline	9.727	138	56	2.978	ng	# 1
57) 2,4-Dinitrotoluene	9.916	165	43346	11.311	ng	# 20
58) Fluorene	10.463	166	57185	2.800	ng	100
63) Azobenzene	10.627	77	69604	2.987	ng	# 1
65) 4,6-Dinitro-2-methylph...	10.704	198	813	8.382	ng	# 1
67) 4-Bromophenyl-phenylether	10.704	248	22185	3.394	ng	# 1
71) Phenanthrene	11.427	178	351739	11.752	ng	97
72) Anthracene	11.474	178	131080	4.370	ng	98
75) Fluoranthene	12.616	202	404745	13.197	ng	96
77) Benzidine	12.986	184	18303	3.598	ng	# 94
78) Pyrene	12.839	202	304609	8.703	ng	99
81) Benzo(a)anthracene	14.063	228	125627	4.705	ng	95
83) Chrysene	14.063	228	125627	5.105	ng	96
87) Indeno(1,2,3-cd)pyrene	16.986	276	68740	2.536	ng	# 92
88) Benzo(b)fluoranthene	15.080	252	214631	7.402	ng	98
89) Benzo(k)fluoranthene	15.080	252	214631	8.709	ng	98
90) Benzo(a)pyrene	15.445	252	112431	4.835	ng	98
92) Benzo(g,h,i)perylene	17.439	276	63082	2.783	ng	99

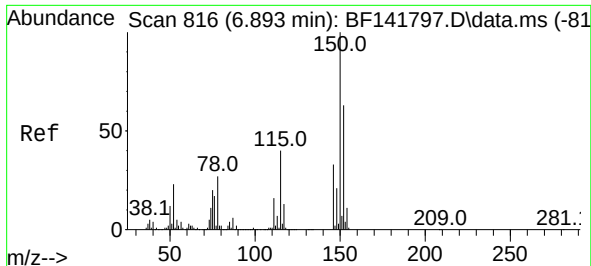
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141866.D
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Quant Time: Mar 06 14:20:06 2025
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
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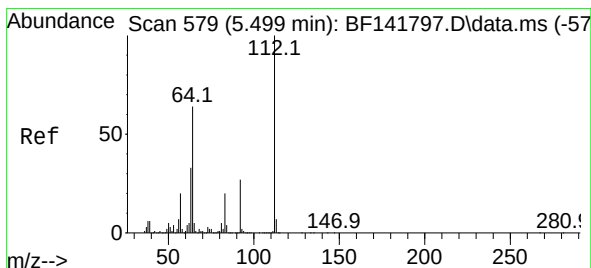
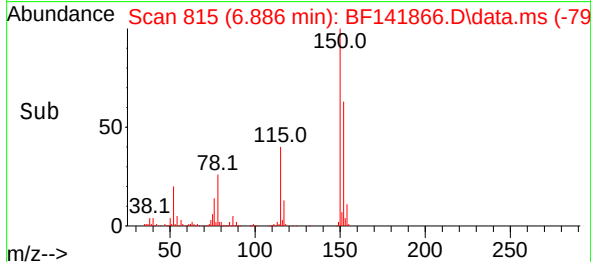
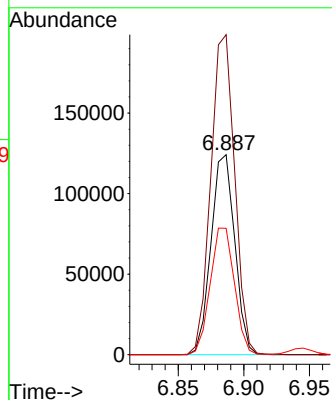
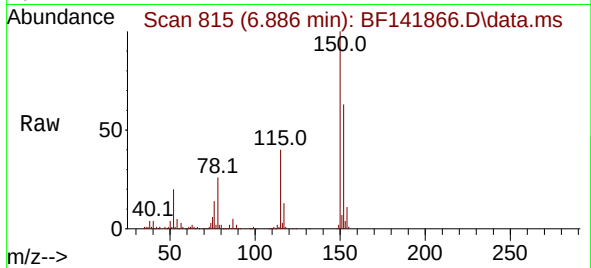




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.886 min Scan# 816
Delta R.T. -0.006 min
Lab File: BF141866.D
Acq: 06 Mar 2025 14:01

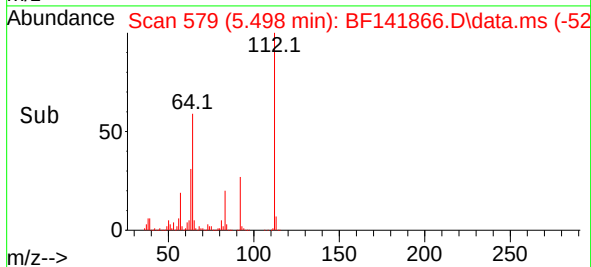
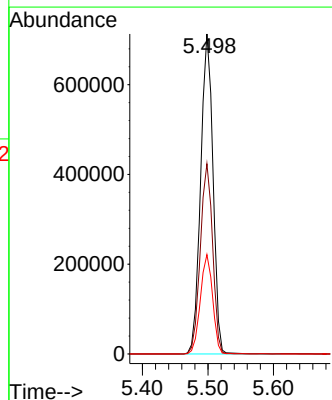
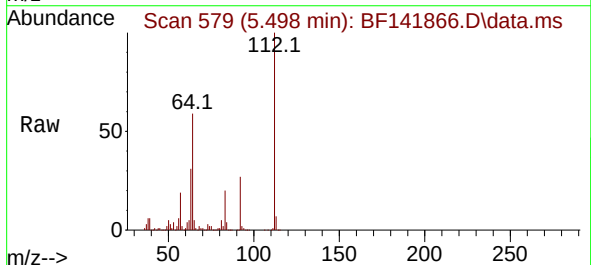
Instrument :
BNA_F
ClientSampleId :
TP-2

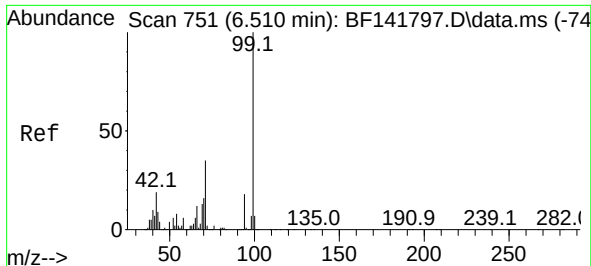
Tgt Ion:152 Resp: 156672
Ion Ratio Lower Upper
152 100
150 159.9 127.5 191.3
115 63.2 51.4 77.2



#5
2-Fluorophenol
Concen: 95.334 ng
RT: 5.498 min Scan# 579
Delta R.T. -0.000 min
Lab File: BF141866.D
Acq: 06 Mar 2025 14:01

Tgt Ion:112 Resp: 935267
Ion Ratio Lower Upper
112 100
64 59.4 51.3 76.9
63 31.0 26.2 39.4

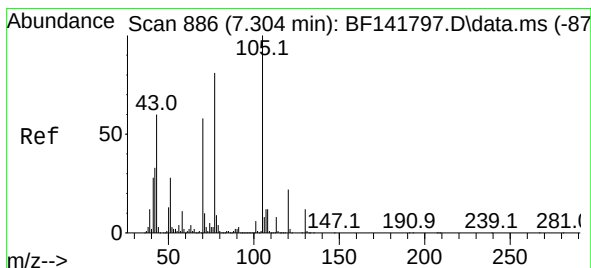
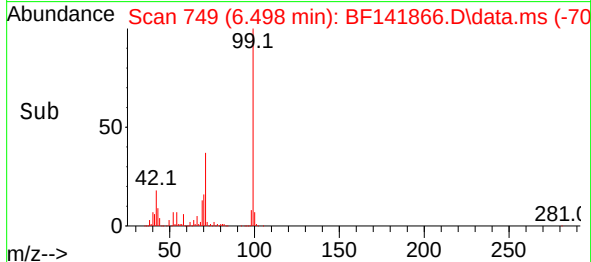
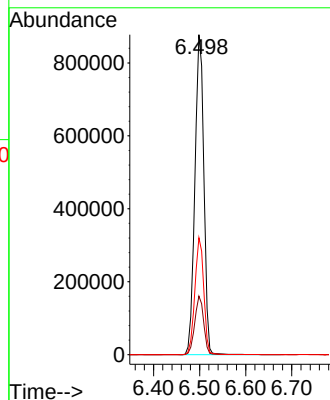
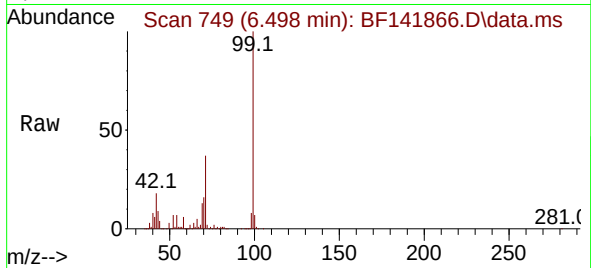




#7
Phenol-d6
Concen: 92.516 ng
RT: 6.498 min Scan# 74
Delta R.T. -0.012 min
Lab File: BF141866.D
Acq: 06 Mar 2025 14:01

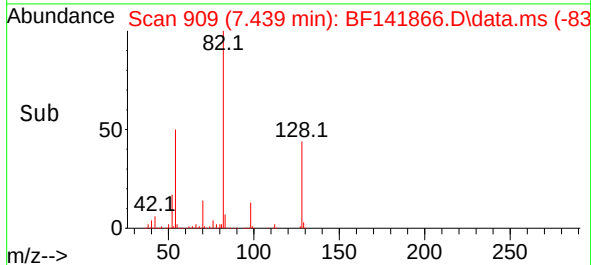
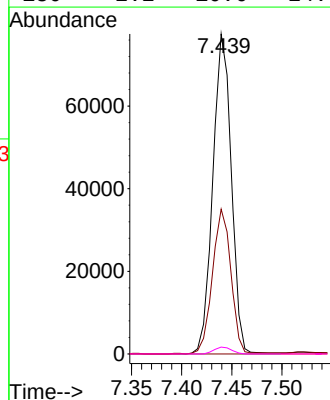
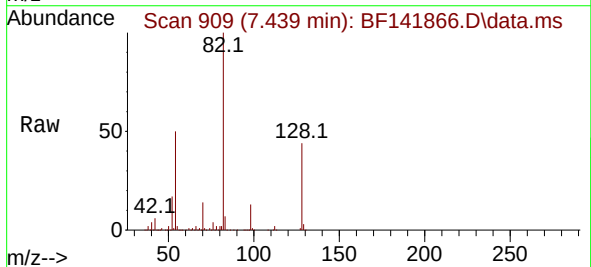
Instrument :
BNA_F
ClientSampleId :
TP-2

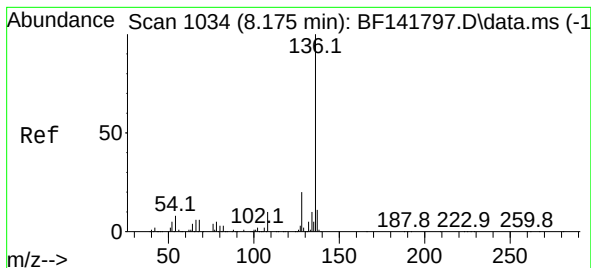
Tgt Ion: 99 Resp: 1181351
Ion Ratio Lower Upper
99 100
42 18.3 15.2 22.8
71 36.5 28.2 42.2



#19
n-Nitroso-di-n-propylamine
Concen: 11.842 ng
RT: 7.439 min Scan# 909
Delta R.T. 0.135 min
Lab File: BF141866.D
Acq: 06 Mar 2025 14:01

Tgt Ion: 70 Resp: 99402
Ion Ratio Lower Upper
70 100
42 45.3 45.4 68.0#
101 0.0 7.8 11.8#
130 2.2 16.6 24.8#





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.163 min Scan# 1

Delta R.T. -0.012 min

Lab File: BF141866.D

Acq: 06 Mar 2025 14:01

Instrument :

BNA_F

ClientSampleId :

TP-2

Tgt Ion:136 Resp: 614163

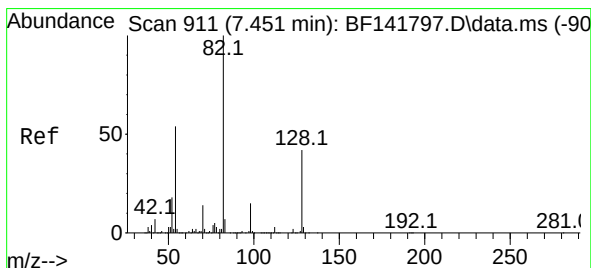
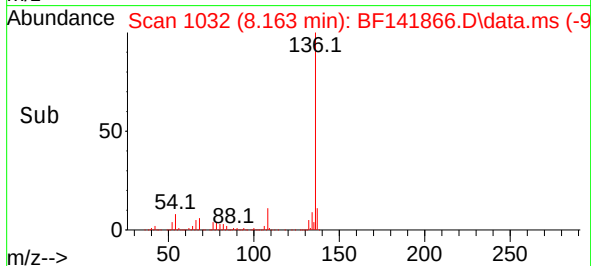
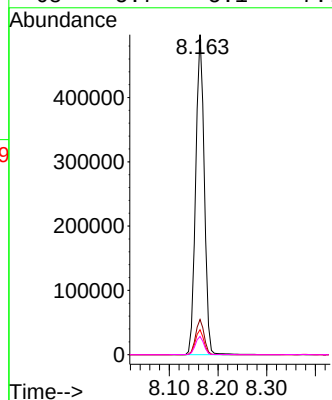
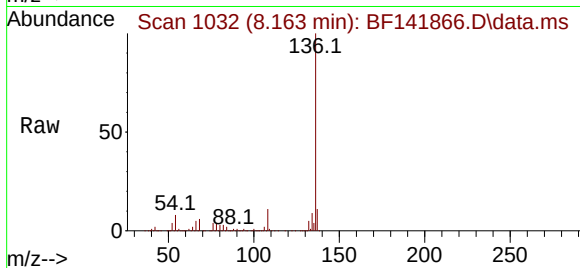
Ion Ratio Lower Upper

136 100

137 11.0 8.9 13.3

54 7.8 6.9 10.3

68 5.7 5.1 7.7



#23

Nitrobenzene-d5

Concen: 75.367 ng

RT: 7.439 min Scan# 909

Delta R.T. -0.012 min

Lab File: BF141866.D

Acq: 06 Mar 2025 14:01

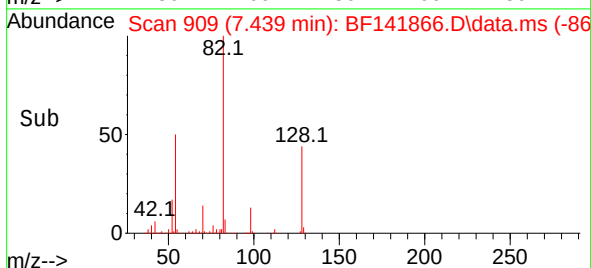
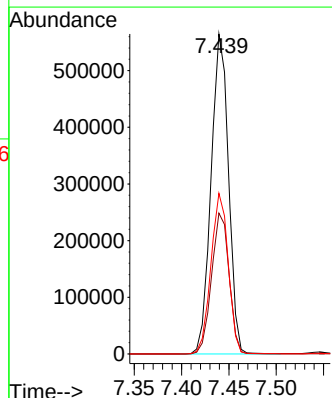
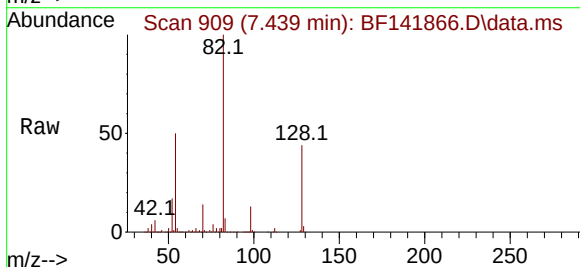
Tgt Ion: 82 Resp: 724150

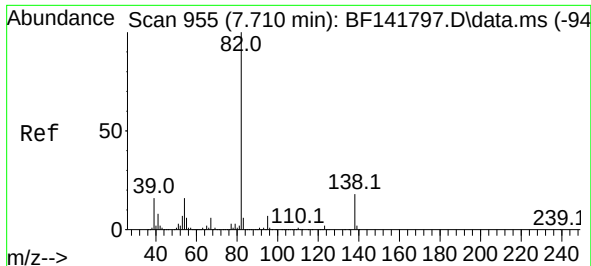
Ion Ratio Lower Upper

82 100

128 44.0 33.5 50.3

54 50.2 42.7 64.1

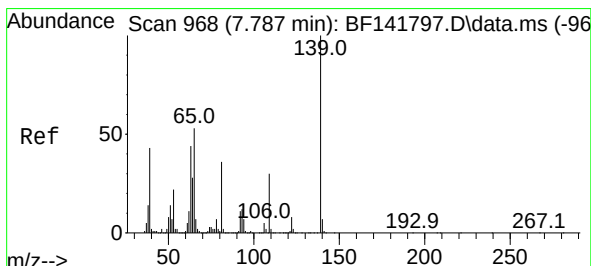
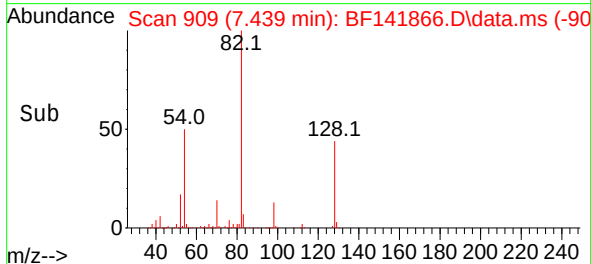
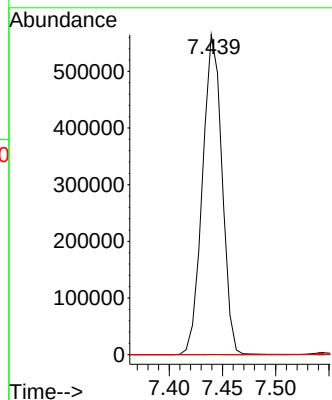
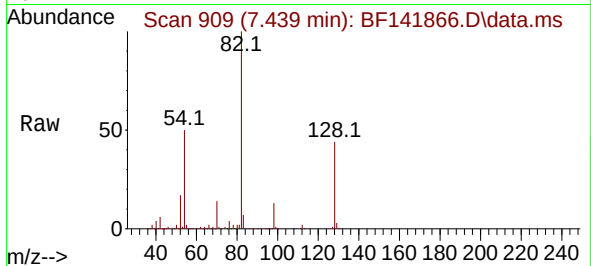




#25
Isophorone
Concen: 34.911 ng
RT: 7.439 min Scan# 909
Delta R.T. -0.271 min
Lab File: BF141866.D
Acq: 06 Mar 2025 14:01

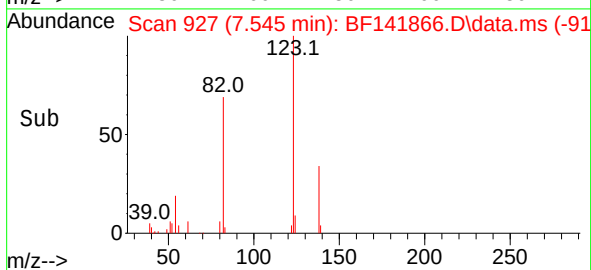
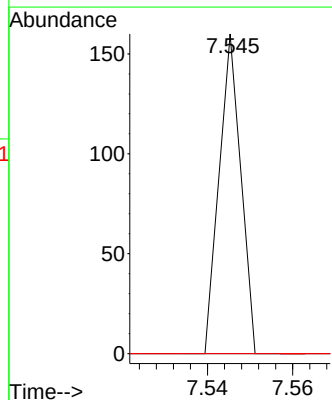
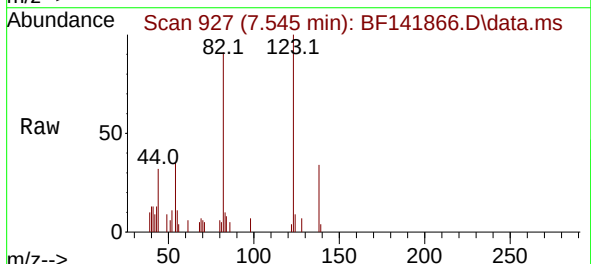
Instrument :
BNA_F
ClientSampleId :
TP-2

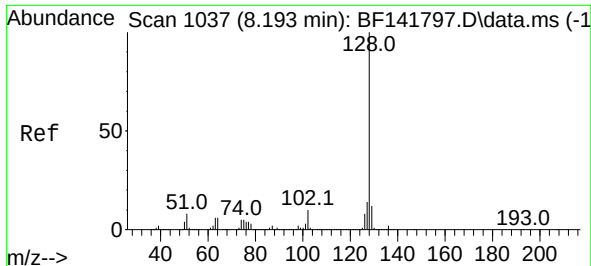
Tgt Ion: 82 Resp: 720640
Ion Ratio Lower Upper
82 100
95 0.0 5.8 8.8#
138 0.0 14.0 21.0#



#26
2-Nitrophenol
Concen: 4.561 ng
RT: 7.545 min Scan# 927
Delta R.T. -0.242 min
Lab File: BF141866.D
Acq: 06 Mar 2025 14:01

Tgt Ion:139 Resp: 56
Ion Ratio Lower Upper
139 100
109 0.0 24.1 36.1#
65 0.0 42.3 63.5#





#31

Naphthalene

Concen: 2.051 ng

RT: 8.186 min Scan# 1

Delta R.T. -0.006 min

Lab File: BF141866.D

Acq: 06 Mar 2025 14:01

Instrument :

BNA_F

ClientSampleId :

TP-2

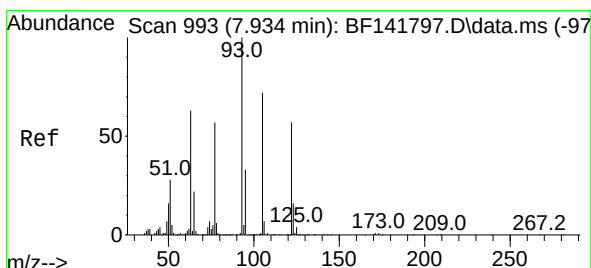
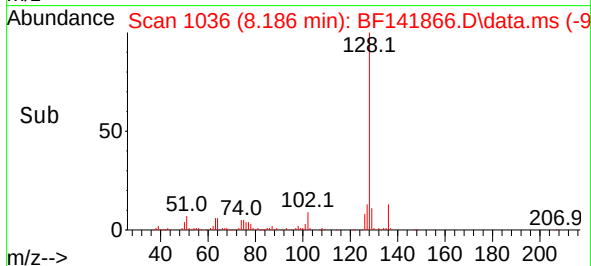
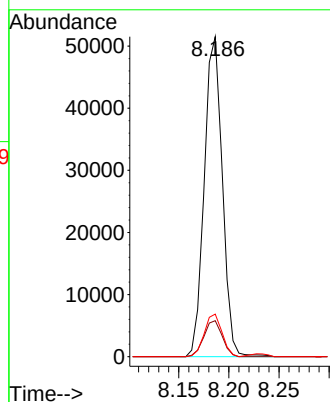
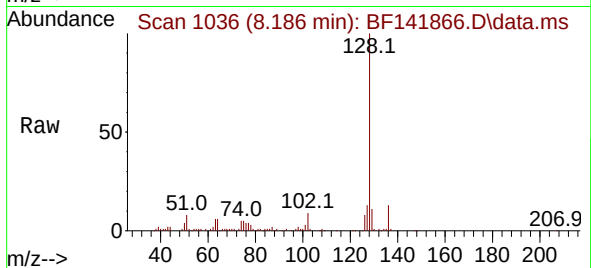
Tgt Ion:128 Resp: 64727

Ion Ratio Lower Upper

128 100

129 11.2 9.2 13.8

127 13.3 11.0 16.4



#32

Benzoic acid

Concen: 7.747 ng

RT: 7.939 min Scan# 994

Delta R.T. 0.005 min

Lab File: BF141866.D

Acq: 06 Mar 2025 14:01

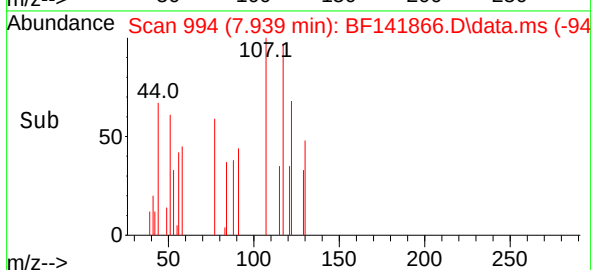
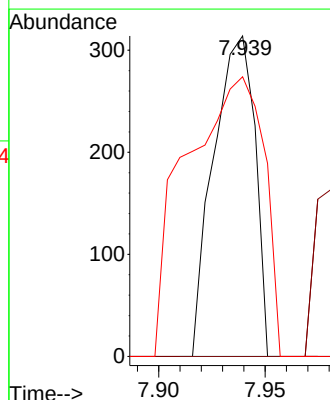
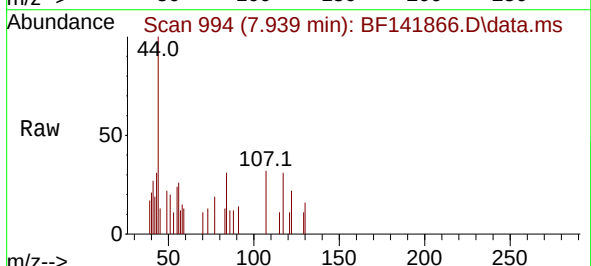
Tgt Ion:122 Resp: 425

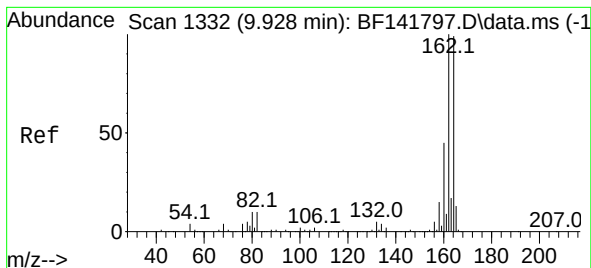
Ion Ratio Lower Upper

122 100

105 0.0 105.8 145.8#

77 87.3 79.9 119.9





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.916 min Scan# 14

Delta R.T. -0.012 min

Lab File: BF141866.D

Acq: 06 Mar 2025 14:01

Instrument :

BNA_F

ClientSampleId :

TP-2

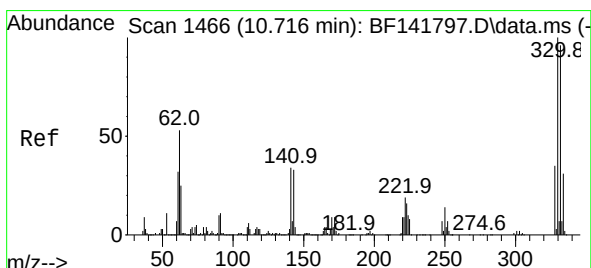
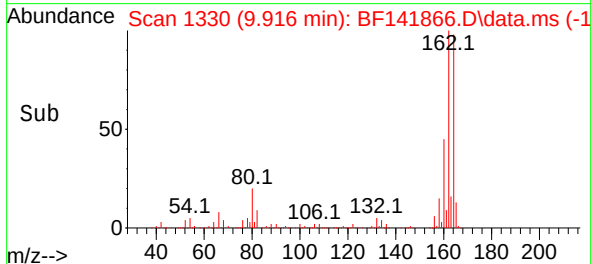
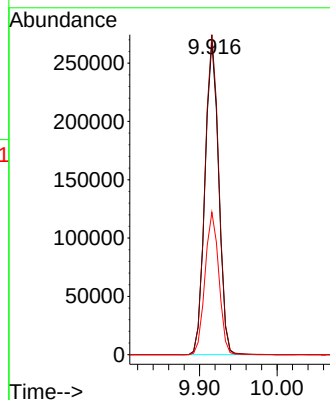
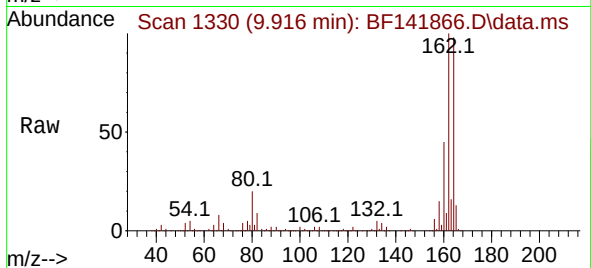
Tgt Ion:164 Resp: 329629

Ion Ratio Lower Upper

164 100

162 102.3 80.6 120.8

160 45.6 36.3 54.5



#42

2,4,6-Tribromophenol

Concen: 108.192 ng

RT: 10.704 min Scan# 1464

Delta R.T. -0.012 min

Lab File: BF141866.D

Acq: 06 Mar 2025 14:01

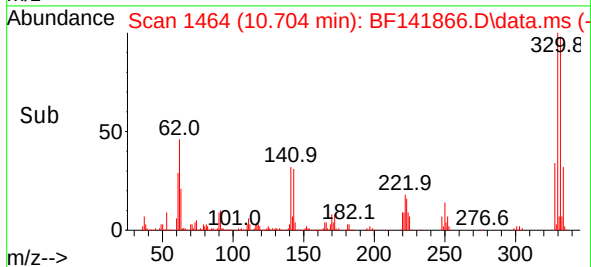
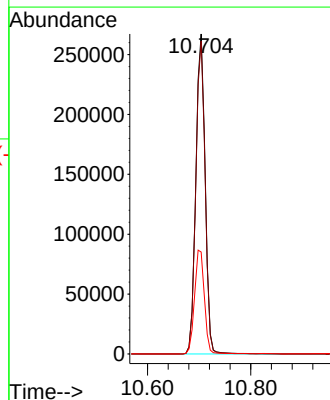
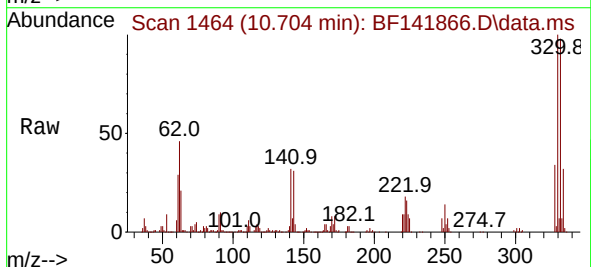
Tgt Ion:330 Resp: 334813

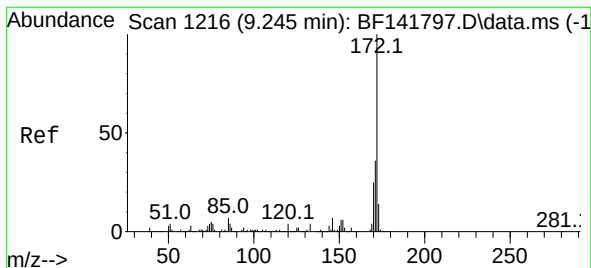
Ion Ratio Lower Upper

330 100

332 97.7 76.6 115.0

141 34.4 29.0 43.4





#45

2-Fluorobiphenyl

Concen: 63.048 ng

RT: 9.239 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF141866.D

Acq: 06 Mar 2025 14:01

Instrument :

BNA_F

ClientSampleId :

TP-2

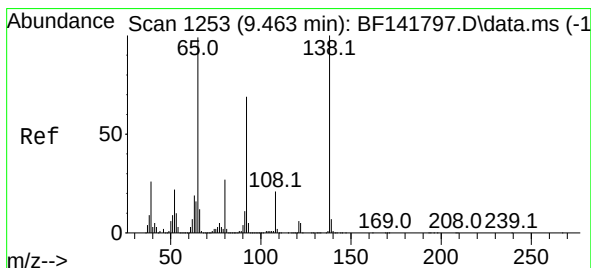
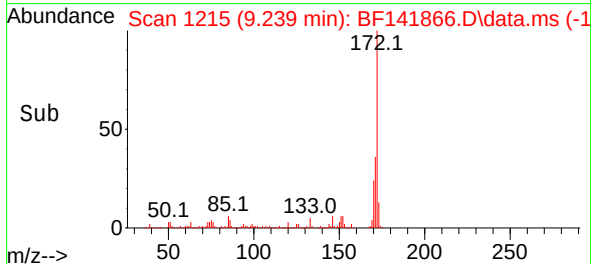
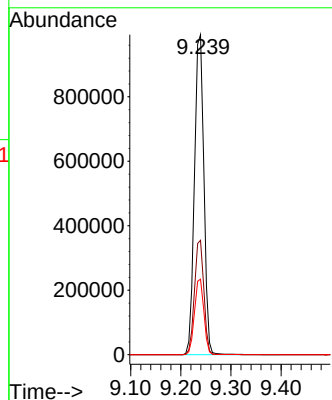
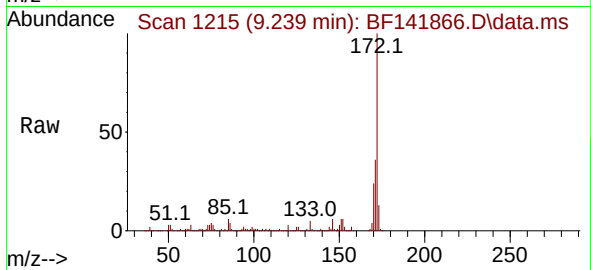
Tgt Ion:172 Resp: 1296112

Ion Ratio Lower Upper

172 100

171 35.8 29.2 43.8

170 23.6 19.7 29.5



#48

2-Nitroaniline

Concen: 4.359 ng

RT: 9.504 min Scan# 1260

Delta R.T. 0.041 min

Lab File: BF141866.D

Acq: 06 Mar 2025 14:01

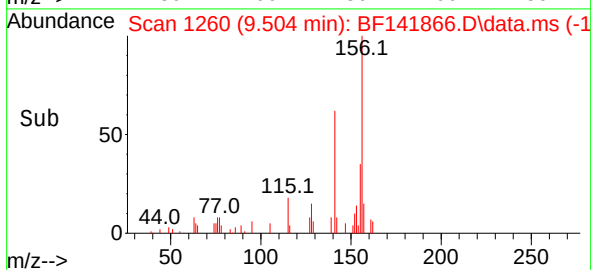
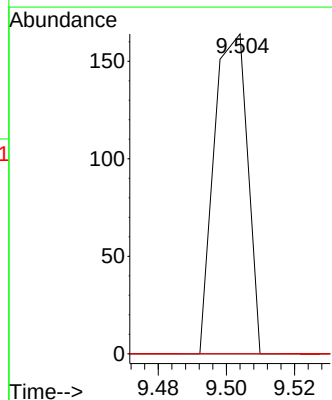
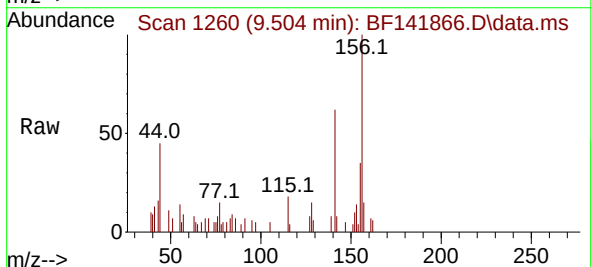
Tgt Ion: 65 Resp: 111

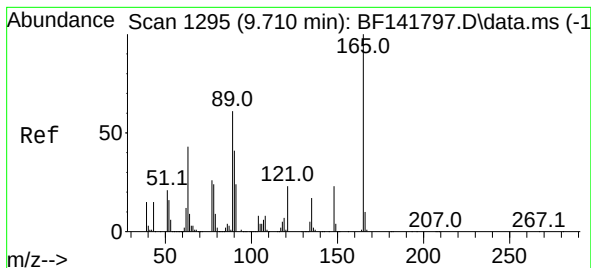
Ion Ratio Lower Upper

65 100

92 0.0 55.7 83.5#

138 0.0 80.6 121.0#





#51

2,6-Dinitrotoluene

Concen: 12.488 ng

RT: 9.916 min Scan# 1295

Delta R.T. 0.206 min

Lab File: BF141866.D

Acq: 06 Mar 2025 14:01

Instrument :

BNA_F

ClientSampleId :

TP-2

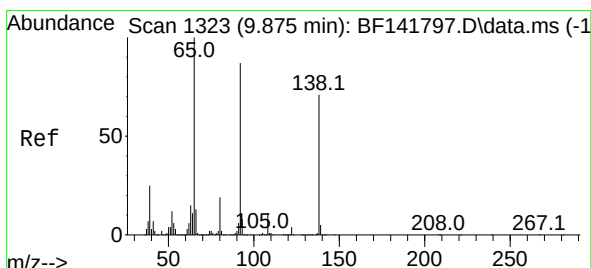
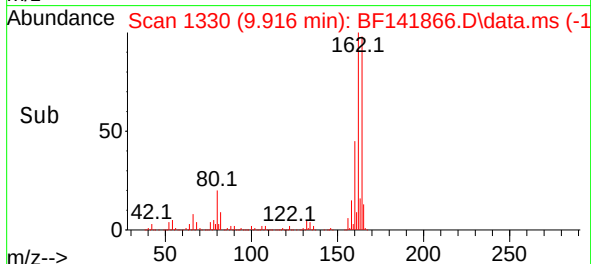
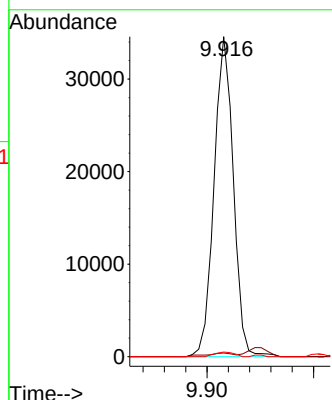
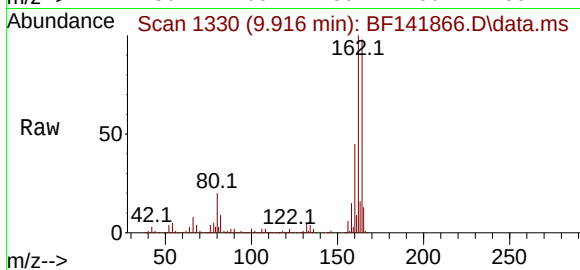
Tgt Ion:165 Resp: 43345

Ion Ratio Lower Upper

165 100

63 1.2 49.5 74.3#

89 1.4 49.0 73.4#



#53

3-Nitroaniline

Concen: 2.978 ng

RT: 9.727 min Scan# 1298

Delta R.T. -0.148 min

Lab File: BF141866.D

Acq: 06 Mar 2025 14:01

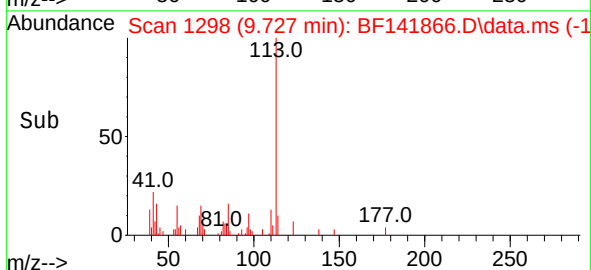
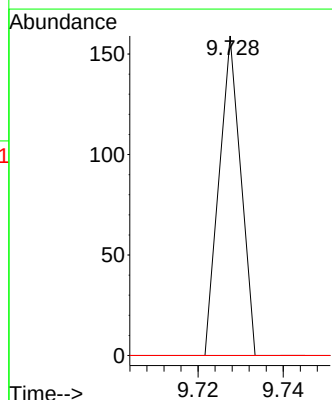
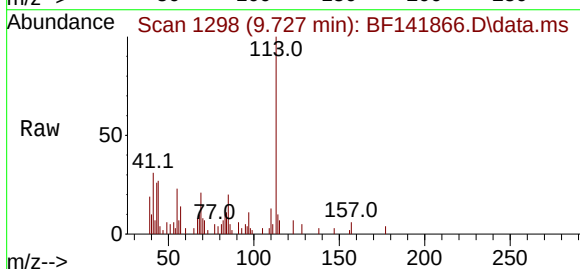
Tgt Ion:138 Resp: 56

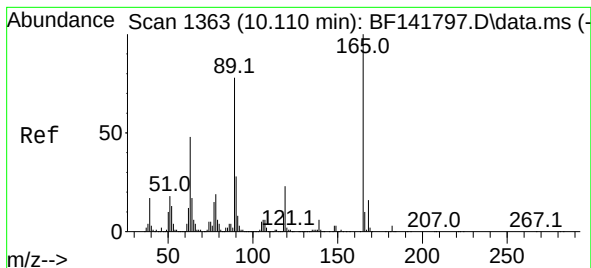
Ion Ratio Lower Upper

138 100

108 0.0 12.7 19.1#

92 0.0 97.9 146.9#





#57

2,4-Dinitrotoluene

Concen: 11.311 ng

RT: 9.916 min Scan# 14

Delta R.T. -0.194 min

Lab File: BF141866.D

Acq: 06 Mar 2025 14:01

Instrument :

BNA_F

ClientSampleId :

TP-2

Tgt Ion:165 Resp: 43346

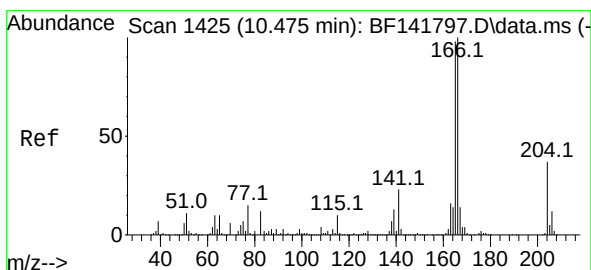
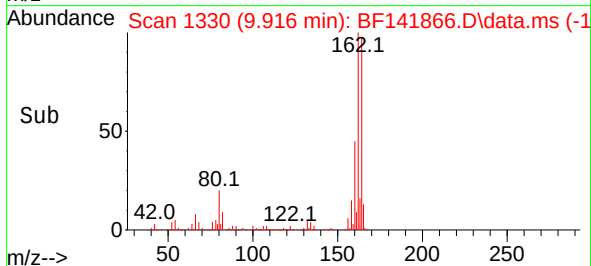
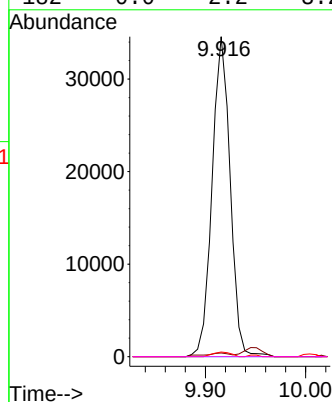
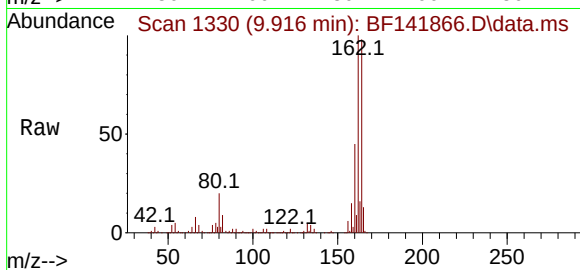
Ion Ratio Lower Upper

165 100

63 1.2 38.8 58.2#

89 1.4 62.6 94.0#

182 0.0 2.2 3.2#



#58

Fluorene

Concen: 2.800 ng

RT: 10.463 min Scan# 1423

Delta R.T. -0.012 min

Lab File: BF141866.D

Acq: 06 Mar 2025 14:01

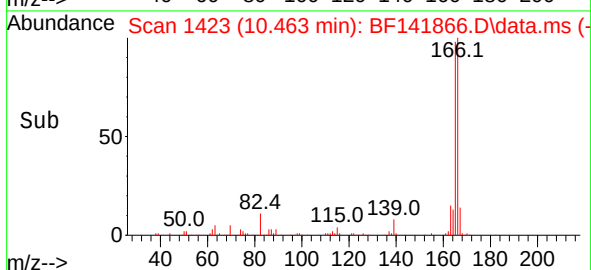
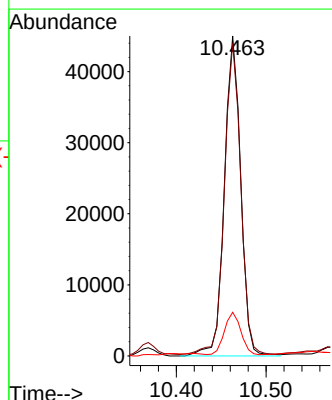
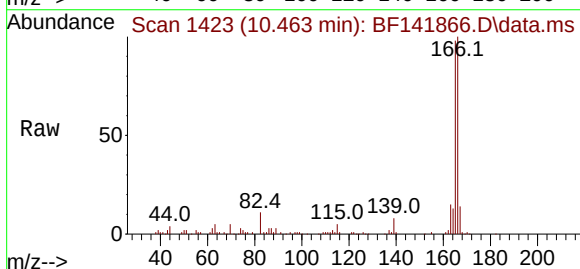
Tgt Ion:166 Resp: 57185

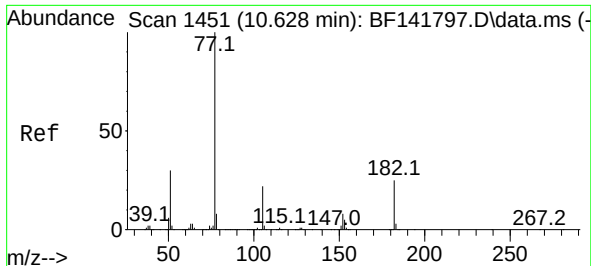
Ion Ratio Lower Upper

166 100

165 97.8 78.6 117.8

167 13.6 11.0 16.4

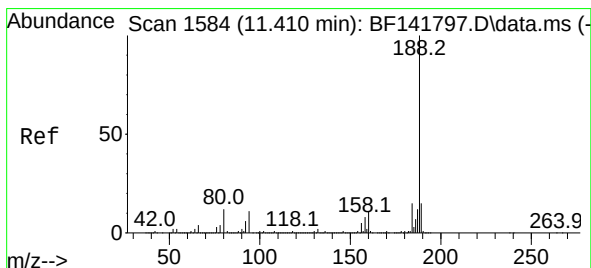
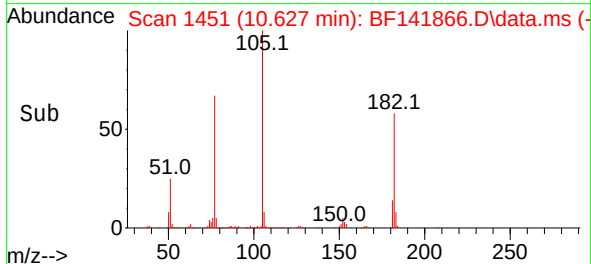
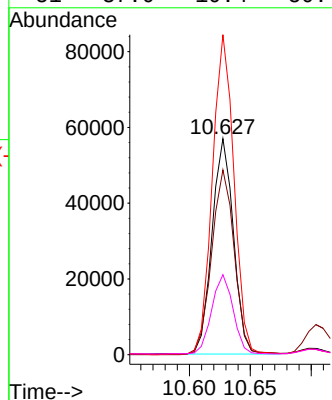
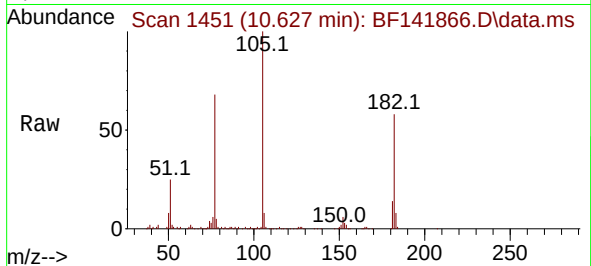




#63
Azobenzene
Concen: 2.987 ng
RT: 10.627 min Scan# 1451
Delta R.T. -0.000 min
Lab File: BF141866.D
Acq: 06 Mar 2025 14:01

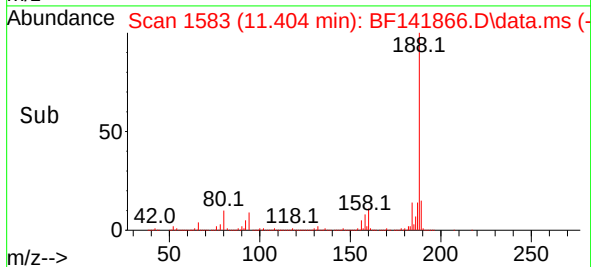
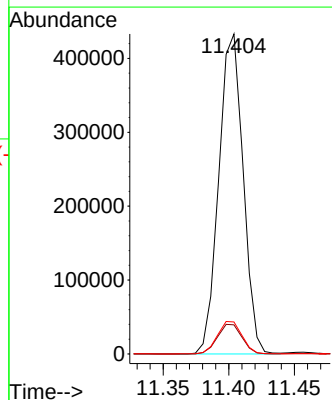
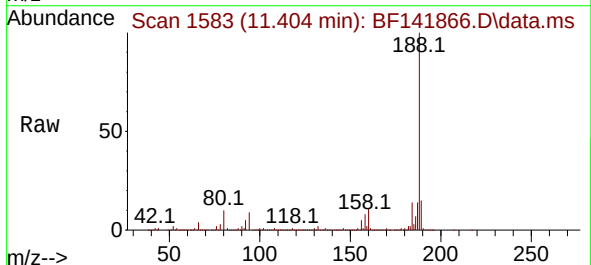
Instrument :
BNA_F
ClientSampleId :
TP-2

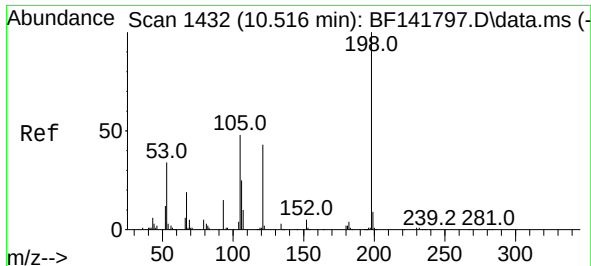
Tgt Ion: 77	Resp: 69604
Ion Ratio	Lower Upper
77	100
182	85.6 4.2 44.2#
105	148.1 1.5 41.5#
51	37.0 10.4 50.4



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.404 min Scan# 1583
Delta R.T. -0.006 min
Lab File: BF141866.D
Acq: 06 Mar 2025 14:01

Tgt Ion: 188	Resp: 559552
Ion Ratio	Lower Upper
188	100
94	9.1 8.9 13.3
80	10.0 9.7 14.5





#65

4,6-Dinitro-2-methylphenol

Concen: 8.382 ng

RT: 10.704 min Scan# 1464

Delta R.T. 0.188 min

Lab File: BF141866.D

Acq: 06 Mar 2025 14:01

Instrument :

BNA_F

ClientSampleId :

TP-2

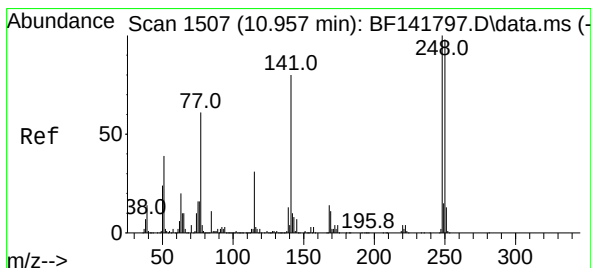
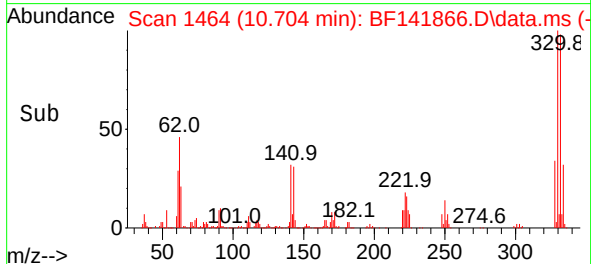
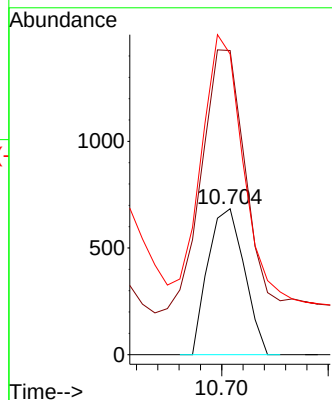
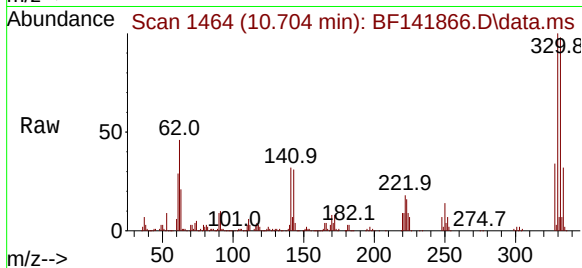
Tgt Ion:198 Resp: 813

Ion Ratio Lower Upper

198 100

51 208.5 32.1 72.1#

105 206.0 28.5 68.5#



#67

4-Bromophenyl-phenylether

Concen: 3.394 ng

RT: 10.704 min Scan# 1464

Delta R.T. -0.253 min

Lab File: BF141866.D

Acq: 06 Mar 2025 14:01

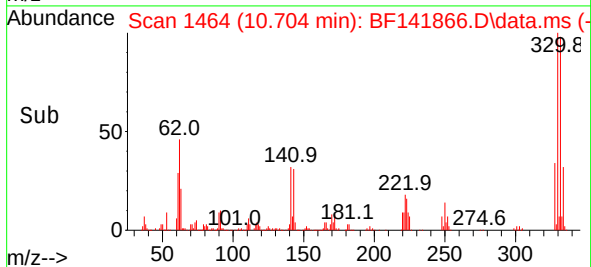
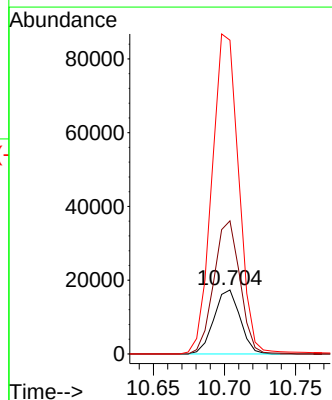
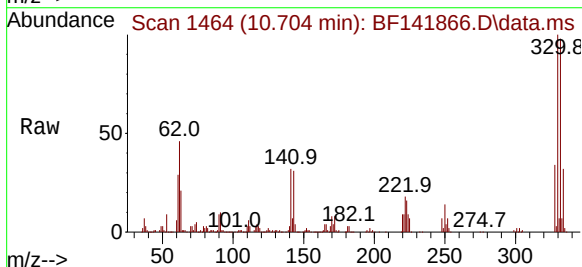
Tgt Ion:248 Resp: 22185

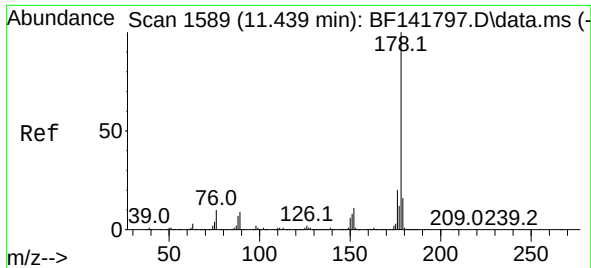
Ion Ratio Lower Upper

248 100

250 207.7 78.1 117.1#

141 489.7 64.3 96.5#

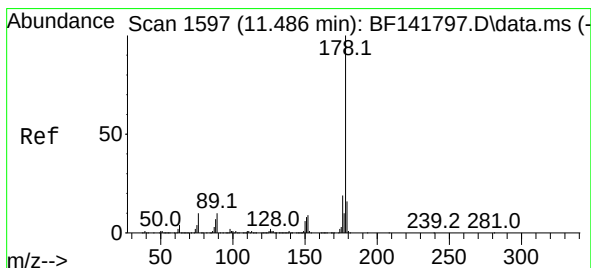
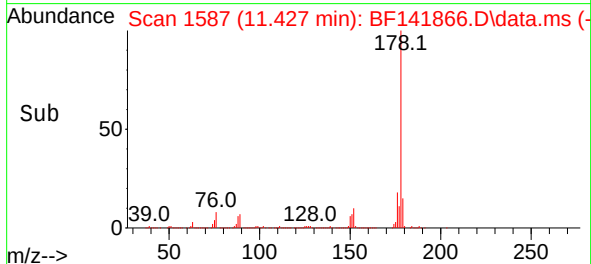
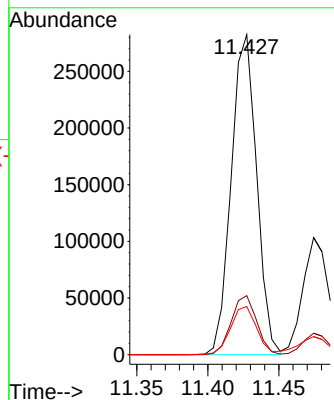
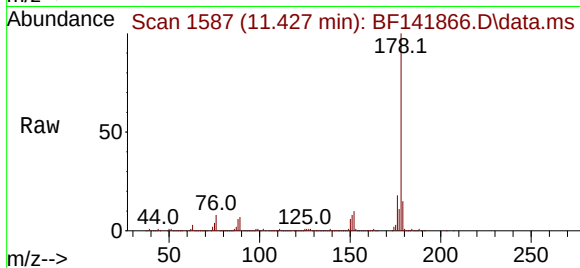




#71
Phenanthrene
Concen: 11.752 ng
RT: 11.427 min Scan# 1589
Delta R.T. -0.012 min
Lab File: BF141866.D
Acq: 06 Mar 2025 14:01

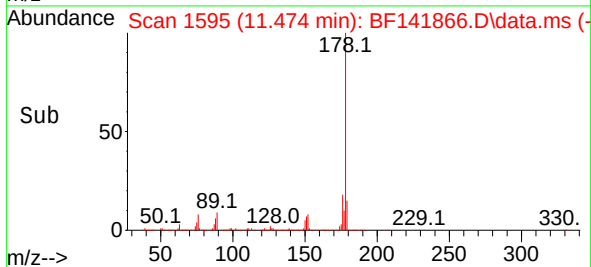
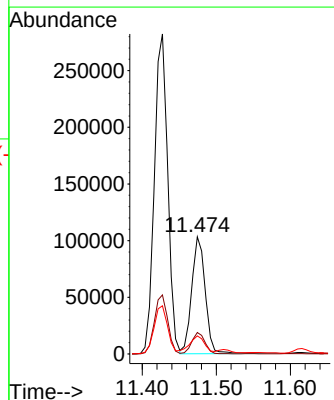
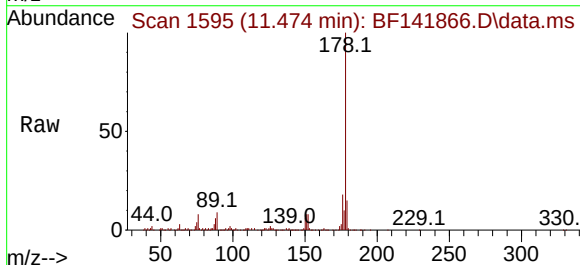
Instrument :
BNA_F
ClientSampleId :
TP-2

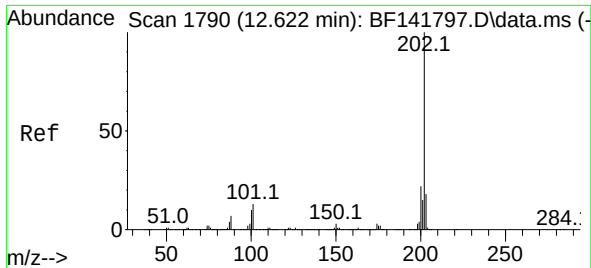
Tgt Ion:178 Resp: 351739
Ion Ratio Lower Upper
178 100
176 18.5 16.0 24.0
179 15.1 12.6 19.0



#72
Anthracene
Concen: 4.370 ng
RT: 11.474 min Scan# 1595
Delta R.T. -0.012 min
Lab File: BF141866.D
Acq: 06 Mar 2025 14:01

Tgt Ion:178 Resp: 131080
Ion Ratio Lower Upper
178 100
176 18.3 15.4 23.0
179 15.4 12.8 19.2

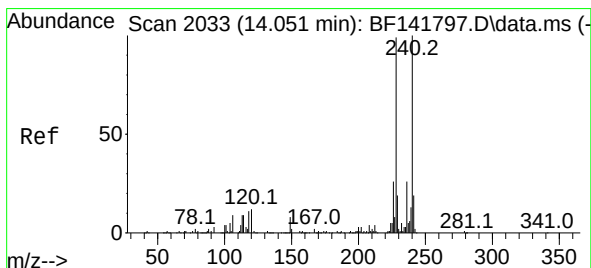
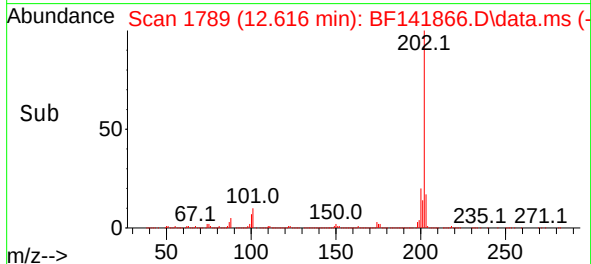
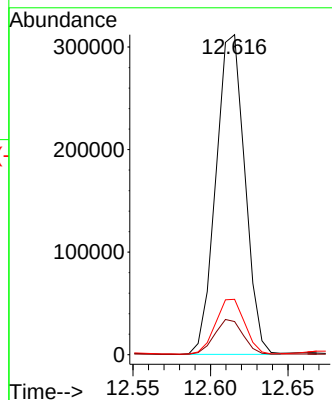
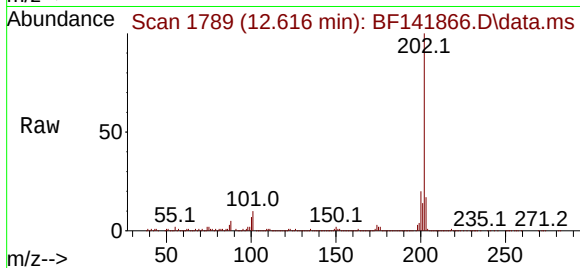




#75
Fluoranthene
Concen: 13.197 ng
RT: 12.616 min Scan# 1789
Delta R.T. -0.006 min
Lab File: BF141866.D
Acq: 06 Mar 2025 14:01

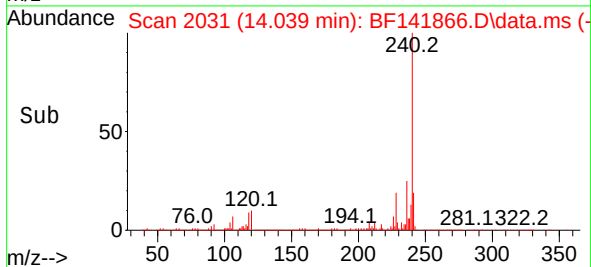
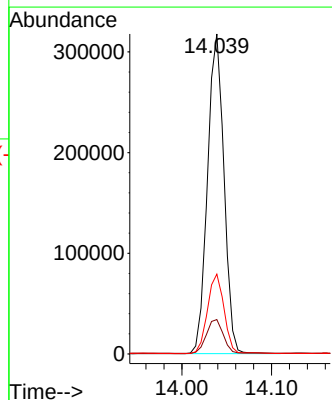
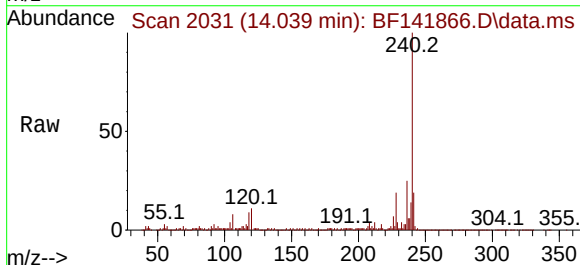
Instrument :
BNA_F
ClientSampleId :
TP-2

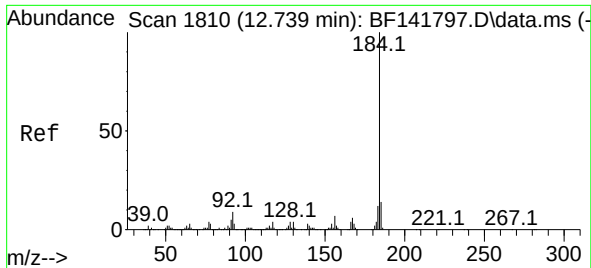
Tgt Ion:202 Resp: 404745
Ion Ratio Lower Upper
202 100
101 10.3 0.0 32.8
203 17.3 0.0 38.0



#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.039 min Scan# 2031
Delta R.T. -0.012 min
Lab File: BF141866.D
Acq: 06 Mar 2025 14:01

Tgt Ion:240 Resp: 404198
Ion Ratio Lower Upper
240 100
120 10.7 9.7 14.5
236 25.0 21.0 31.4





#77

Benzidine

Concen: 3.598 ng

RT: 12.986 min Scan# 1852

Delta R.T. 0.247 min

Lab File: BF141866.D

Acq: 06 Mar 2025 14:01

Instrument :

BNA_F

ClientSampleId :

TP-2

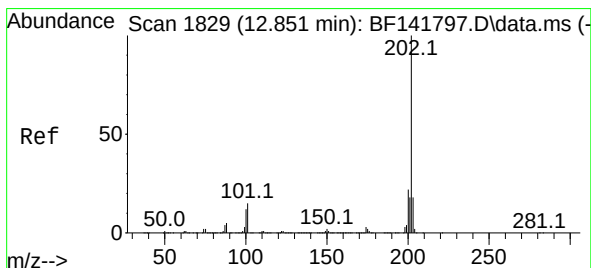
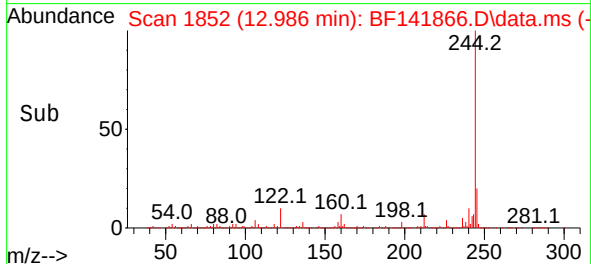
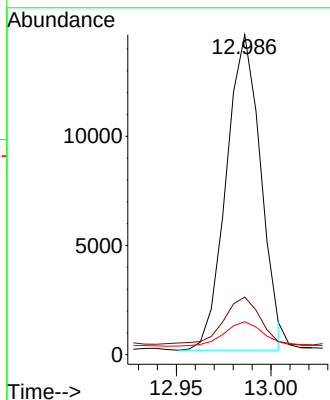
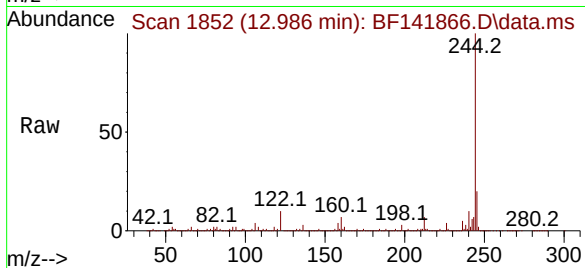
Tgt Ion:184 Resp: 18303

Ion Ratio Lower Upper

184 100

185 18.0 11.6 17.4#

183 10.3 9.4 14.0



#78

Pyrene

Concen: 8.703 ng

RT: 12.839 min Scan# 1827

Delta R.T. -0.012 min

Lab File: BF141866.D

Acq: 06 Mar 2025 14:01

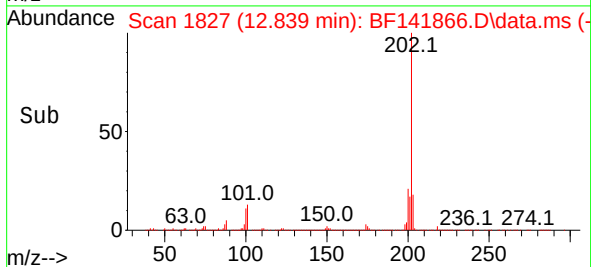
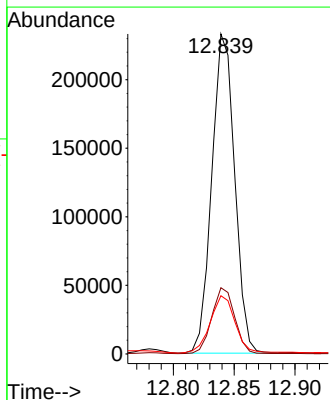
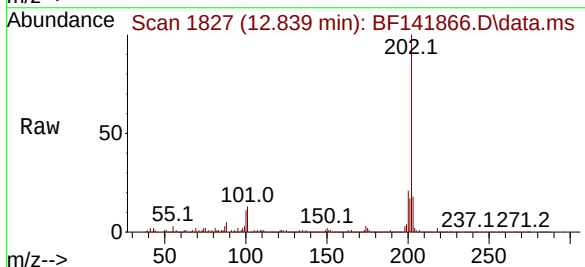
Tgt Ion:202 Resp: 304609

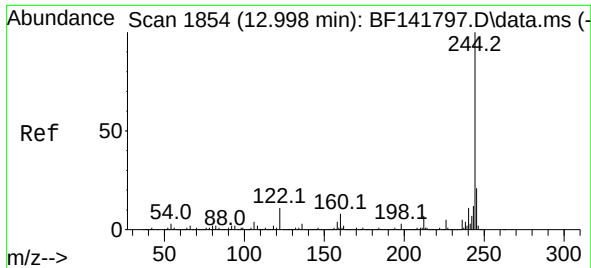
Ion Ratio Lower Upper

202 100

200 20.7 17.4 26.0

203 18.2 14.6 22.0

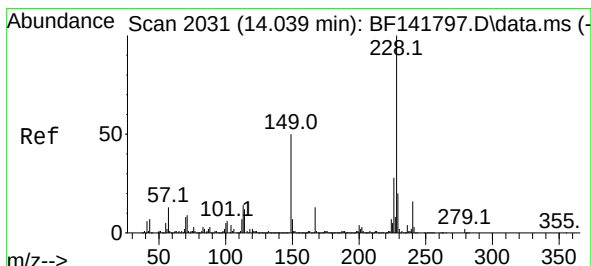
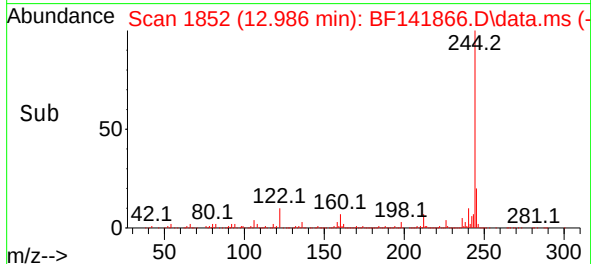
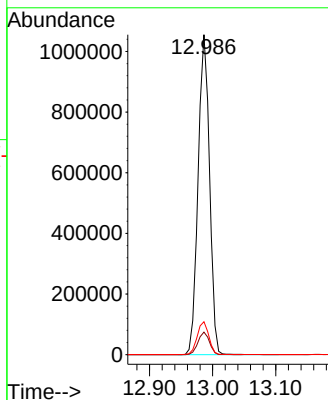
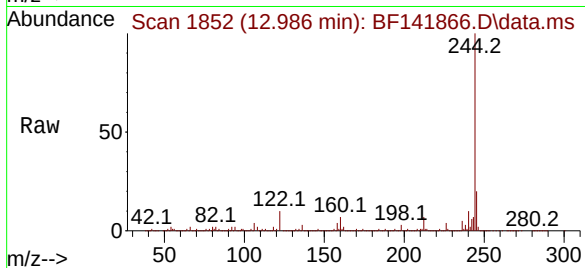




#79
 Terphenyl-d14
 Concen: 53.031 ng
 RT: 12.986 min Scan# 1
 Delta R.T. -0.012 min
 Lab File: BF141866.D
 Acq: 06 Mar 2025 14:01

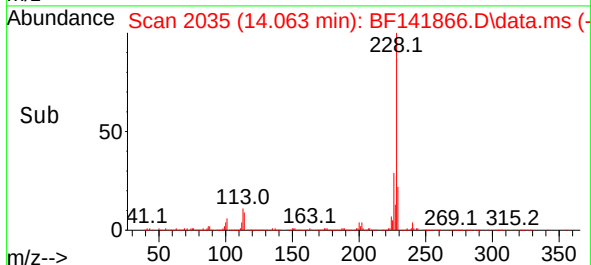
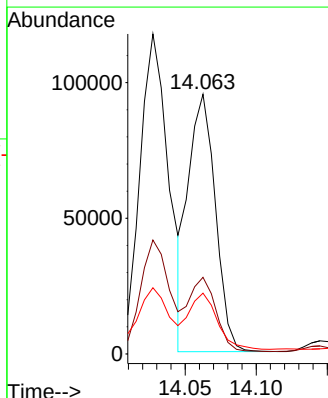
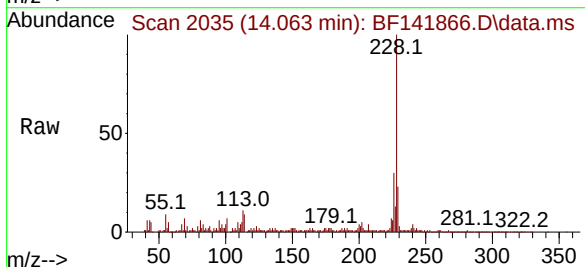
Instrument :
 BNA_F
 ClientSampleId :
 TP-2

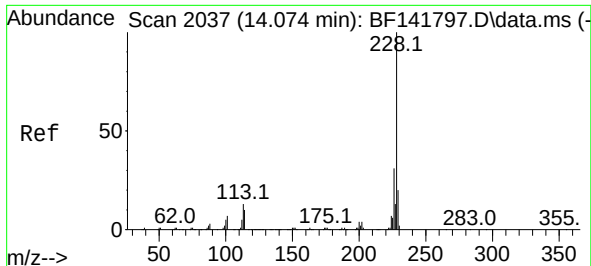
Tgt Ion:244 Resp: 1324842
 Ion Ratio Lower Upper
 244 100
 212 7.1 6.0 9.0
 122 10.3 9.0 13.6



#81
 Benzo(a)anthracene
 Concen: 4.705 ng
 RT: 14.063 min Scan# 2035
 Delta R.T. 0.023 min
 Lab File: BF141866.D
 Acq: 06 Mar 2025 14:01

Tgt Ion:228 Resp: 125627
 Ion Ratio Lower Upper
 228 100
 226 29.5 22.1 33.1
 229 23.4 16.1 24.1





#83

Chrysene

Concen: 5.105 ng

RT: 14.063 min Scan# 2035

Delta R.T. -0.012 min

Lab File: BF141866.D

Acq: 06 Mar 2025 14:01

Instrument :

BNA_F

ClientSampleId :

TP-2

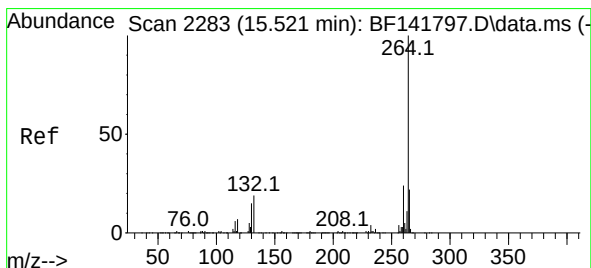
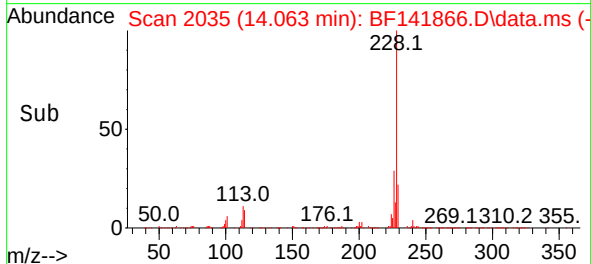
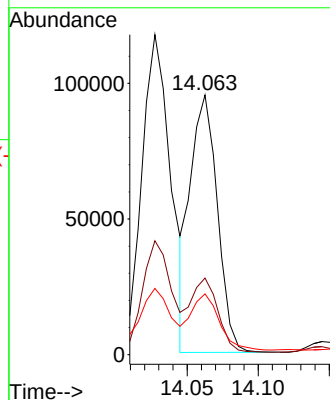
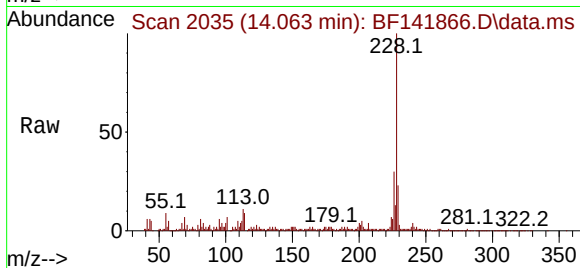
Tgt Ion:228 Resp: 125627

Ion Ratio Lower Upper

228 100

226 29.5 24.6 37.0

229 23.4 16.1 24.1



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.509 min Scan# 2281

Delta R.T. -0.012 min

Lab File: BF141866.D

Acq: 06 Mar 2025 14:01

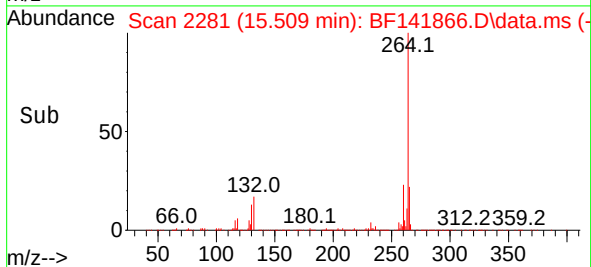
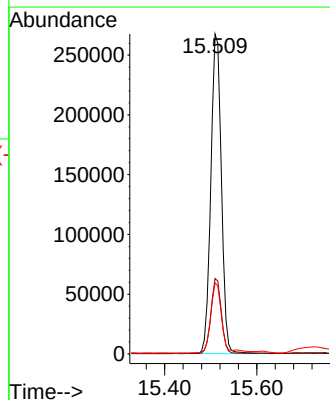
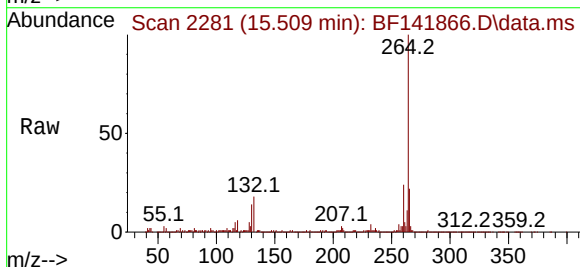
Tgt Ion:264 Resp: 425654

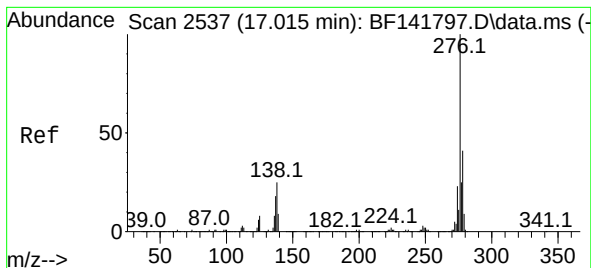
Ion Ratio Lower Upper

264 100

260 23.6 18.9 28.3

265 22.2 17.4 26.0





#87

Indeno(1,2,3-cd)pyrene

Concen: 2.536 ng

RT: 16.986 min Scan# 21

Delta R.T. -0.030 min

Lab File: BF141866.D

Acq: 06 Mar 2025 14:01

Instrument :

BNA_F

ClientSampleId :

TP-2

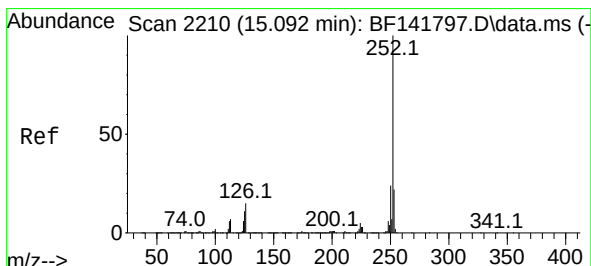
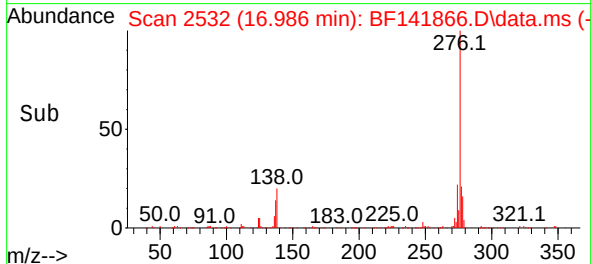
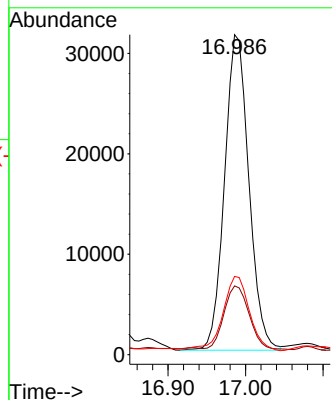
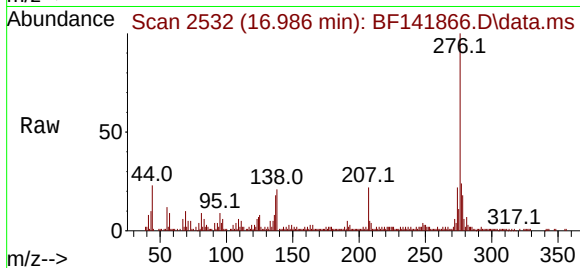
Tgt Ion:276 Resp: 68740

Ion Ratio Lower Upper

276 100

138 20.7 22.5 33.7#

277 25.6 20.3 30.5



#88

Benzo(b)fluoranthene

Concen: 7.402 ng

RT: 15.080 min Scan# 2208

Delta R.T. -0.012 min

Lab File: BF141866.D

Acq: 06 Mar 2025 14:01

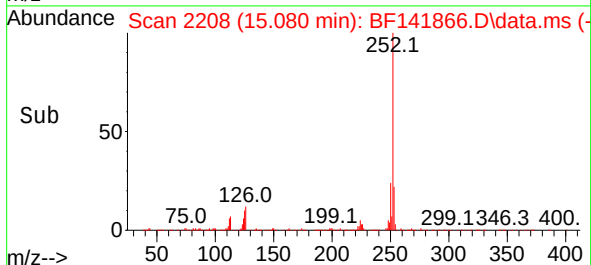
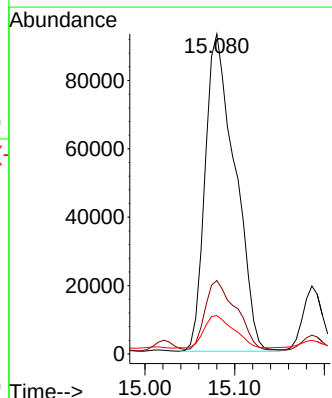
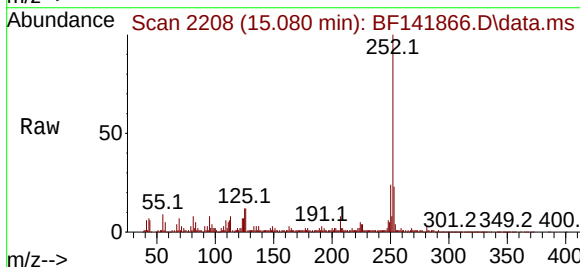
Tgt Ion:252 Resp: 214631

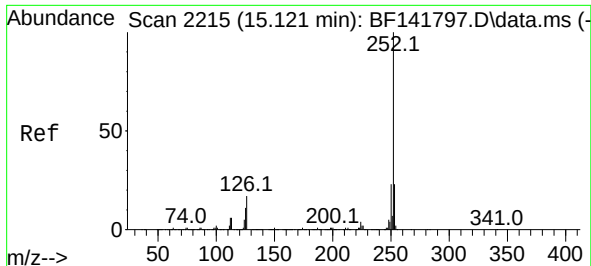
Ion Ratio Lower Upper

252 100

253 23.0 17.7 26.5

125 12.0 8.6 13.0





#89

Benzo(k)fluoranthene

Concen: 8.709 ng

RT: 15.080 min Scan# 21

Delta R.T. -0.041 min

Lab File: BF141866.D

Acq: 06 Mar 2025 14:01

Instrument :

BNA_F

ClientSampleId :

TP-2

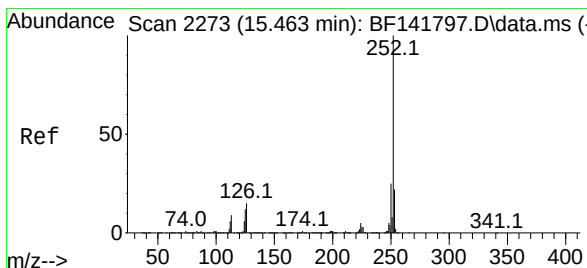
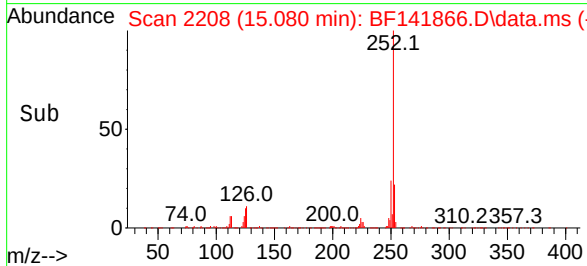
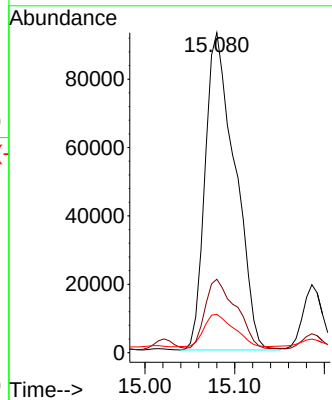
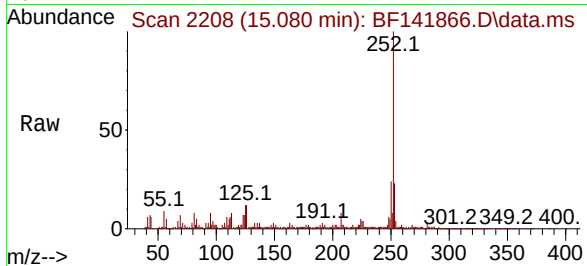
Tgt Ion:252 Resp: 214631

Ion Ratio Lower Upper

252 100

253 23.0 17.8 26.8

125 12.0 8.8 13.2



#90

Benzo(a)pyrene

Concen: 4.835 ng

RT: 15.445 min Scan# 2270

Delta R.T. -0.018 min

Lab File: BF141866.D

Acq: 06 Mar 2025 14:01

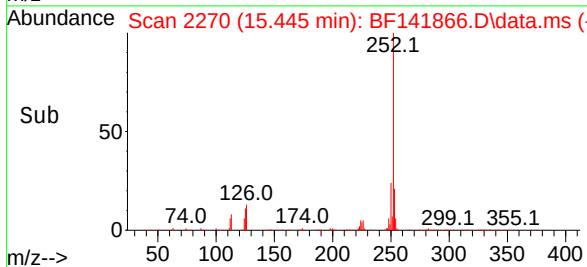
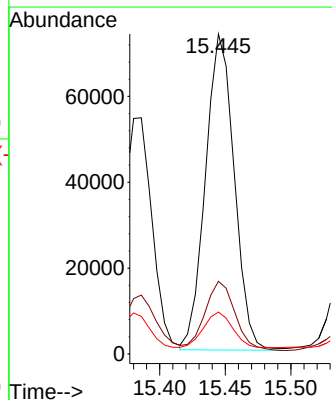
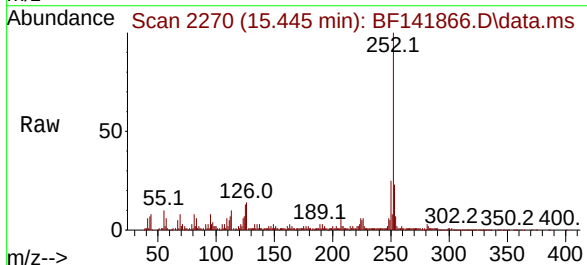
Tgt Ion:252 Resp: 112431

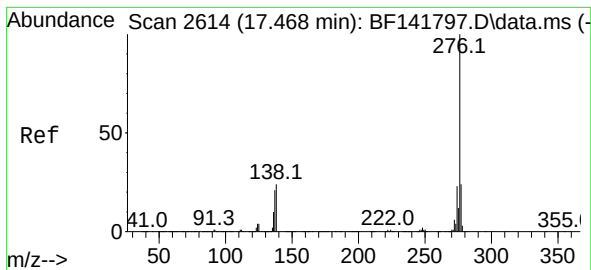
Ion Ratio Lower Upper

252 100

253 22.7 17.5 26.3

125 13.1 9.4 14.2





#92

Benzo(g,h,i)perylene

Concen: 2.783 ng

RT: 17.439 min Scan# 20

Delta R.T. -0.030 min

Lab File: BF141866.D

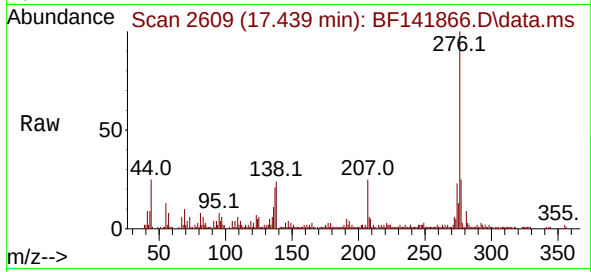
Acq: 06 Mar 2025 14:01

Instrument :

BNA_F

ClientSampleId :

TP-2



Tgt Ion:276 Resp: 63082

Ion Ratio Lower Upper

276 100

277 25.0 19.4 29.0

138 23.7 19.3 28.9

