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 Data File : BF142510.D
 Acq On : 22 May 2025 15:07
 Operator : RC/JU
 Sample : Q2075-01
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

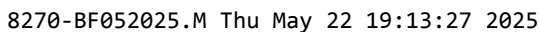
Instrument :
 BNA_F
 ClientSampleId :
 SS-10

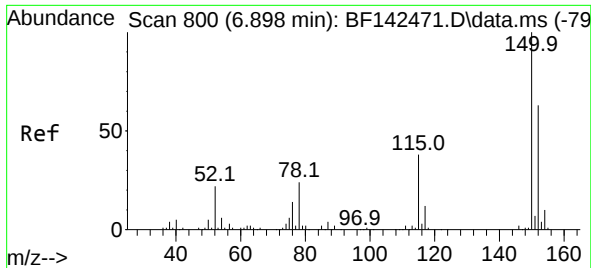
Quant Time: May 22 19:12:55 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue May 20 16:26:47 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.898	152	120361	20.000	ng	0.00
21) Naphthalene-d8	8.180	136	452635	20.000	ng	0.00
39) Acenaphthene-d10	9.933	164	223139	20.000	ng	-0.01
64) Phenanthrene-d10	11.421	188	308296	20.000	ng	-0.01
76) Chrysene-d12	14.062	240	228905	20.000	ng	-0.01
86) Perylene-d12	15.556	264	198076	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.510	112	515432	72.148	ng	0.00
7) Phenol-d6	6.516	99	644302	74.920	ng	-0.02
23) Nitrobenzene-d5	7.457	82	362216	43.636	ng	-0.02
42) 2,4,6-Tribromophenol	10.721	330	141234	57.028	ng	-0.02
45) 2-Fluorobiphenyl	9.251	172	624297	37.543	ng	-0.02
79) Terphenyl-d14	13.010	244	497370	29.693	ng	0.00
Target Compounds						
19) n-Nitroso-di-n-propyla...	7.457	70	50106	9.401	ng	# 77
25) Isophorone	7.457	82	336230	24.227	ng	# 63
51) 2,6-Dinitrotoluene	9.933	165	29937	9.421	ng	# 28
57) 2,4-Dinitrotoluene	9.933	165	29937	7.214	ng	# 28
63) Azobenzene	10.645	77	34339	2.659	ng	# 1
67) 4-Bromophenyl-phenylether	10.721	248	8886	2.438	ng	# 1
71) Phenanthrene	11.445	178	326802	19.835	ng	99
72) Anthracene	11.498	178	44324	2.636	ng	100
75) Fluoranthene	12.639	202	432290	28.080	ng	99
78) Pyrene	12.868	202	338481	15.851	ng	99
81) Benzo(a)anthracene	14.051	228	152272	9.962	ng	98
83) Chrysene	14.086	228	162130	11.804	ng	98
87) Indeno(1,2,3-cd)pyrene	17.050	276	56848	3.823	ng	96
88) Benzo(b)fluoranthene	15.115	252	237116	20.226	ng	# 97
89) Benzo(k)fluoranthene	15.115	252	237116	21.595	ng	# 97
90) Benzo(a)pyrene	15.486	252	92107	8.335	ng	# 97
92) Benzo(g,h,i)perylene	17.503	276	49747	4.124	ng	97

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

Quant Time: May 22 19:12:55 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

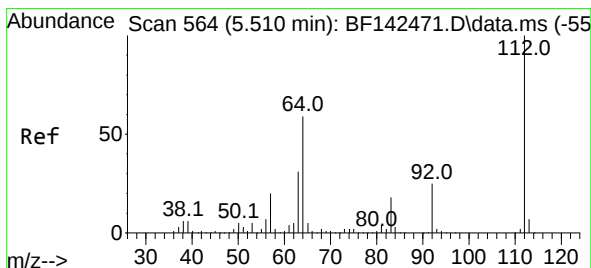
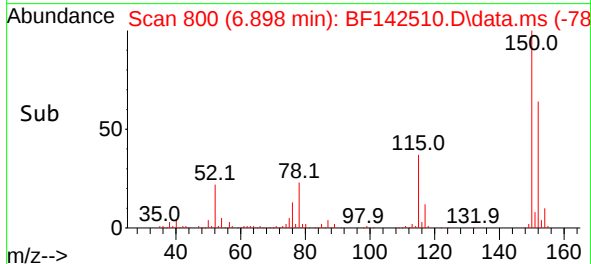
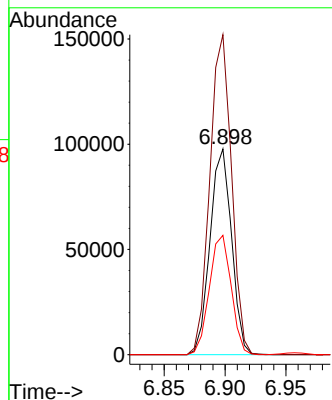
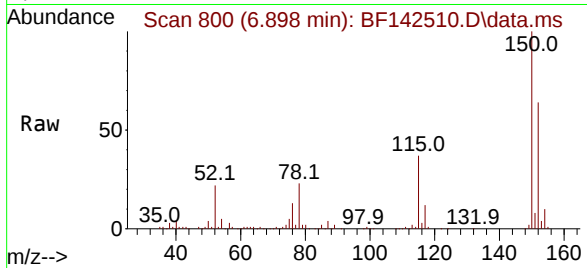




#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.898 min Scan# 800
 Delta R.T. -0.006 min
 Lab File: BF142510.D
 Acq: 22 May 2025 15:07

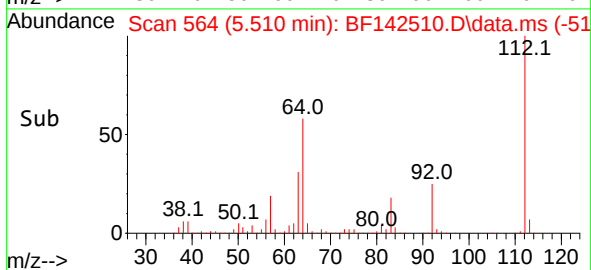
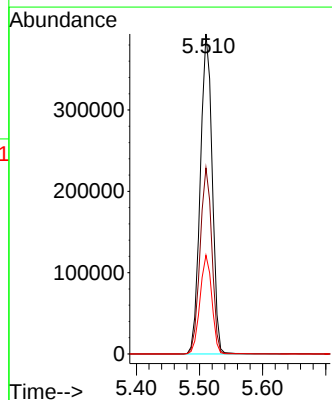
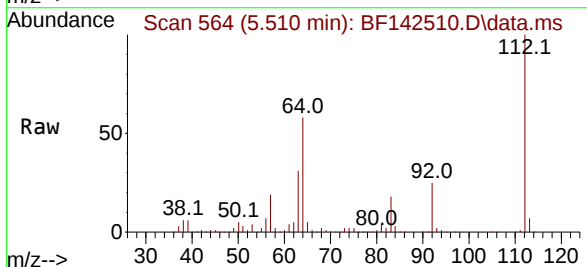
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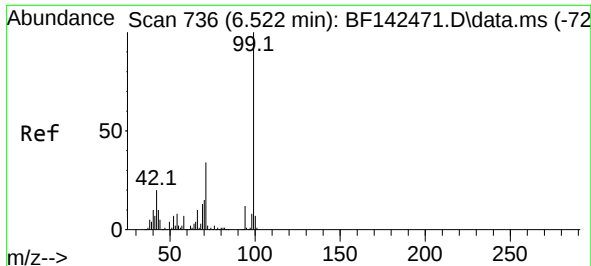
Tgt Ion:152 Resp: 120361
 Ion Ratio Lower Upper
 152 100
 150 155.6 128.2 192.4
 115 58.0 48.3 72.5



#5
 2-Fluorophenol
 Concen: 72.148 ng
 RT: 5.510 min Scan# 564
 Delta R.T. -0.006 min
 Lab File: BF142510.D
 Acq: 22 May 2025 15:07

Tgt Ion:112 Resp: 515432
 Ion Ratio Lower Upper
 112 100
 64 58.1 47.5 71.3
 63 30.8 24.9 37.3





#7
Phenol-d6
Concen: 74.920 ng
RT: 6.516 min Scan# 71
Delta R.T. -0.018 min
Lab File: BF142510.D
Acq: 22 May 2025 15:07

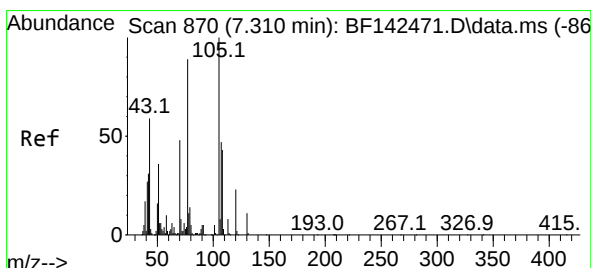
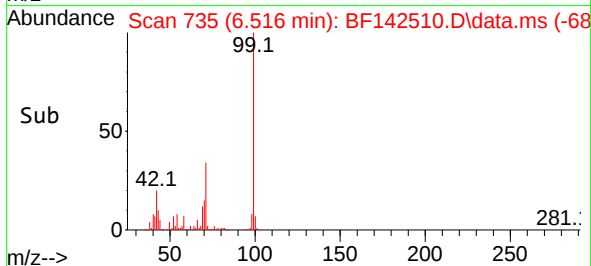
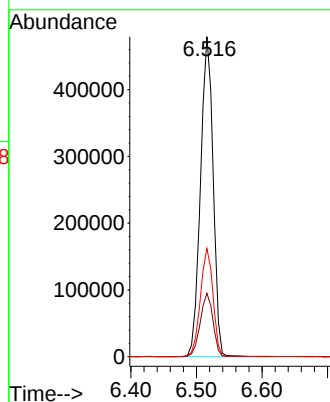
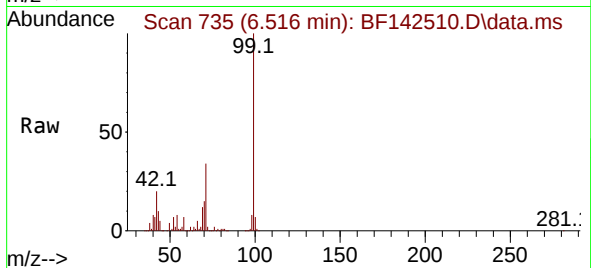
Instrument :

BNA_F

ClientSampleId :

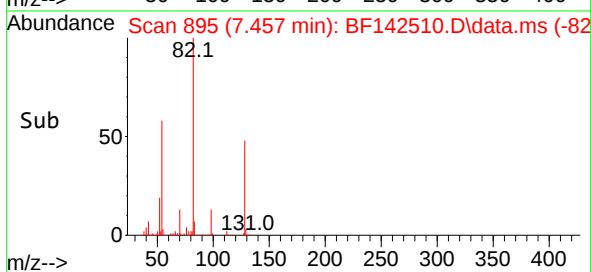
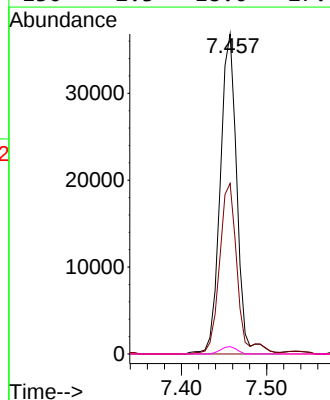
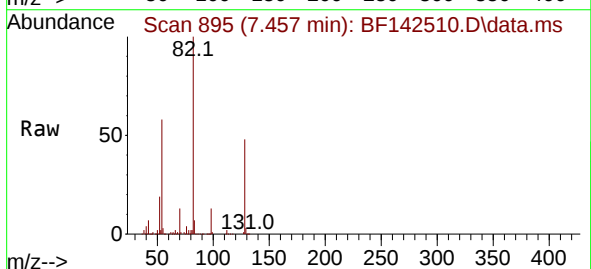
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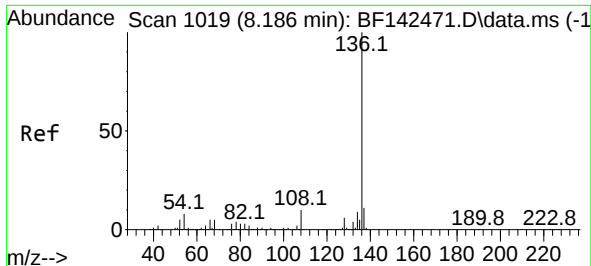
Tgt Ion: 99 Resp: 644302
Ion Ratio Lower Upper
99 100
42 19.8 16.2 24.2
71 33.8 27.3 40.9



#19
n-Nitroso-di-n-propylamine
Concen: 9.401 ng
RT: 7.457 min Scan# 895
Delta R.T. 0.129 min
Lab File: BF142510.D
Acq: 22 May 2025 15:07

Tgt Ion: 70 Resp: 50106
Ion Ratio Lower Upper
70 100
42 53.3 52.4 78.6
101 0.0 7.8 11.8#
130 2.3 18.0 27.0#

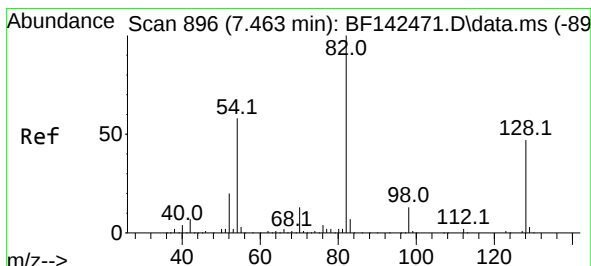
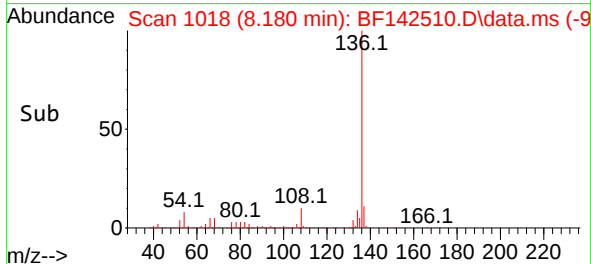
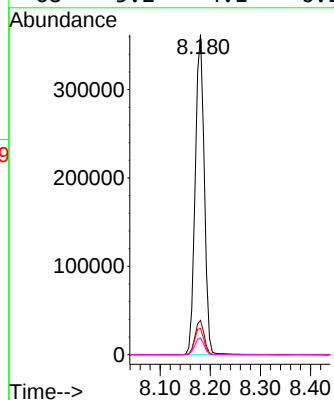
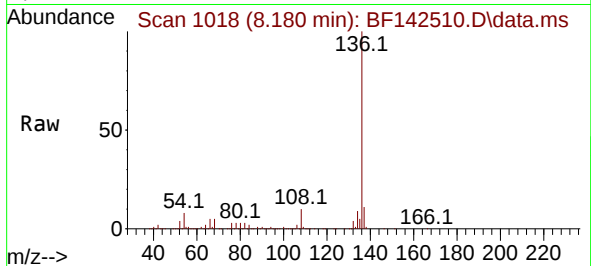




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.180 min Scan# 1019
Delta R.T. -0.006 min
Lab File: BF142510.D
Acq: 22 May 2025 15:07

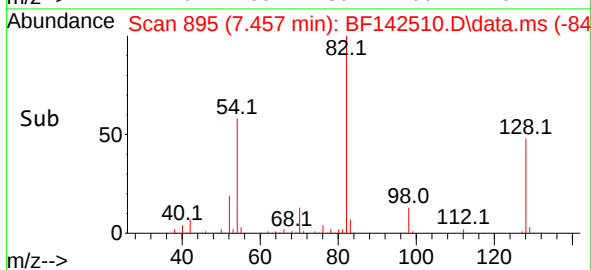
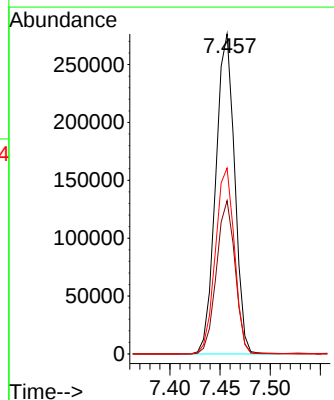
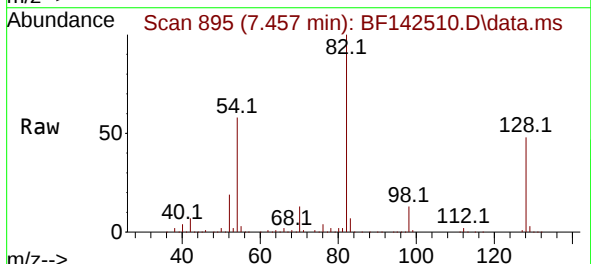
Instrument :
BNA_F
ClientSampleId :
SS-10

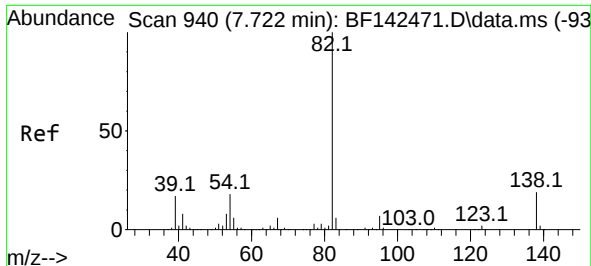
Tgt Ion:136 Resp: 452635
Ion Ratio Lower Upper
136 100
137 10.7 8.6 13.0
54 8.2 6.6 10.0
68 5.2 4.1 6.1



#23
Nitrobenzene-d5
Concen: 43.636 ng
RT: 7.457 min Scan# 895
Delta R.T. -0.018 min
Lab File: BF142510.D
Acq: 22 May 2025 15:07

Tgt Ion: 82 Resp: 362216
Ion Ratio Lower Upper
82 100
128 47.9 37.4 56.2
54 58.1 46.6 70.0

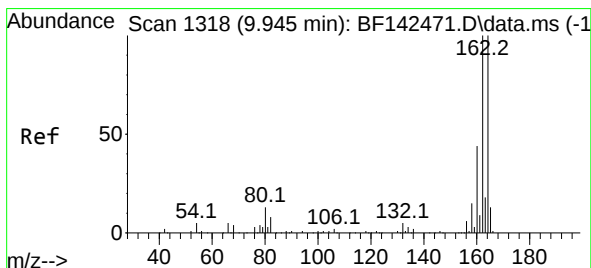
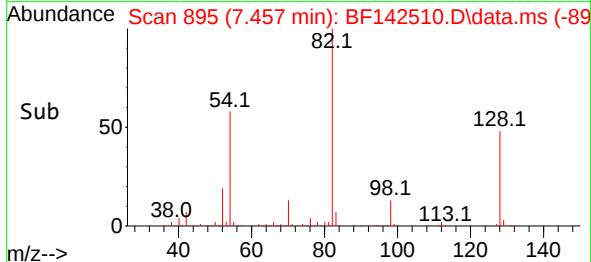
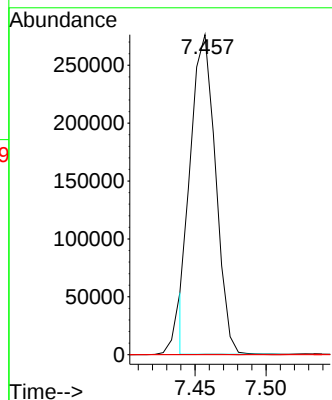
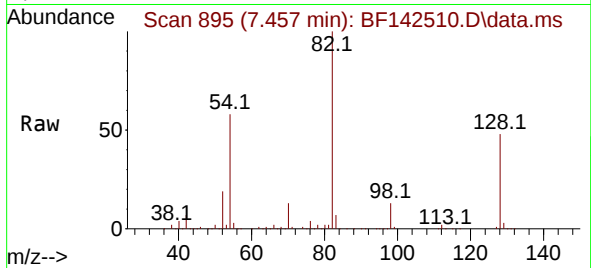




#25
Isophorone
Concen: 24.227 ng
RT: 7.457 min Scan# 89
Delta R.T. -0.276 min
Lab File: BF142510.D
Acq: 22 May 2025 15:07

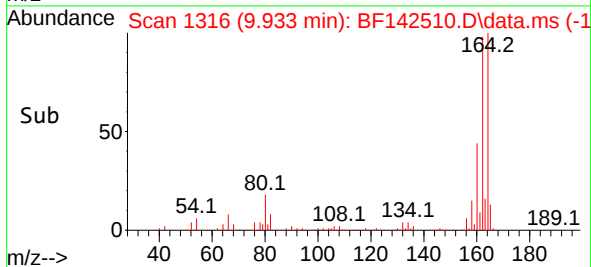
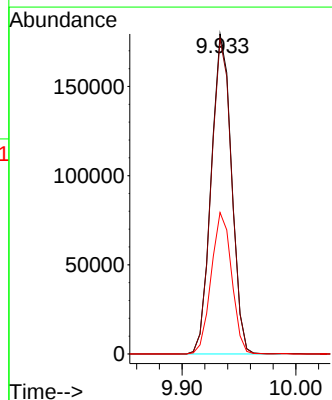
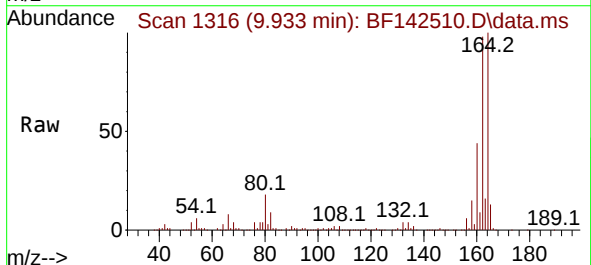
Instrument :
BNA_F
ClientSampleId :
SS-10

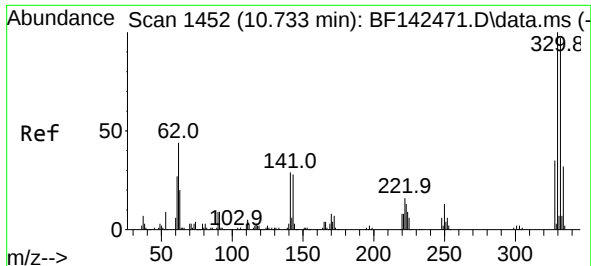
Tgt Ion: 82 Resp: 336230
Ion Ratio Lower Upper
82 100
95 0.1 6.0 9.0#
138 0.0 15.5 23.3#



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.933 min Scan# 1316
Delta R.T. -0.012 min
Lab File: BF142510.D
Acq: 22 May 2025 15:07

Tgt Ion:164 Resp: 223139
Ion Ratio Lower Upper
164 100
162 98.5 80.2 120.4
160 44.2 35.6 53.4





#42

2,4,6-Tribromophenol

Concen: 57.028 ng

RT: 10.721 min Scan# 1452

Delta R.T. -0.018 min

Lab File: BF142510.D

Acq: 22 May 2025 15:07

Instrument :

BNA_F

ClientSampleId :

SS-10

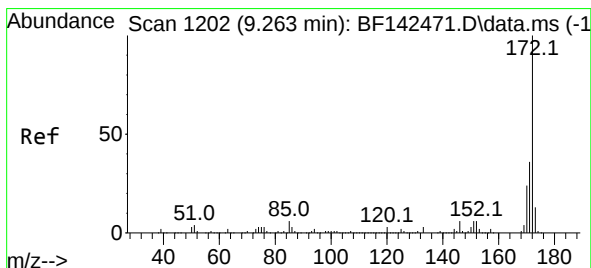
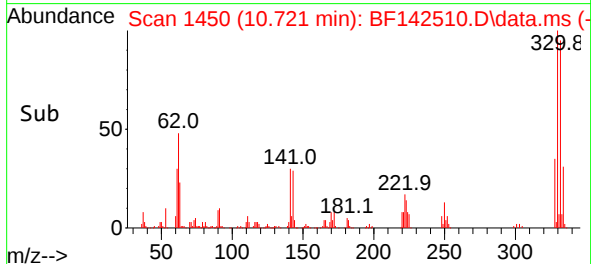
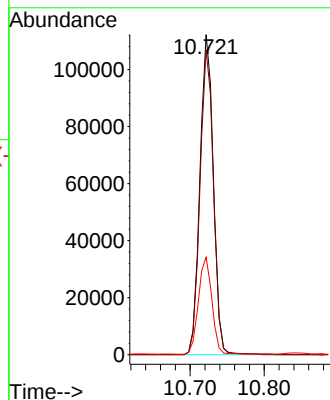
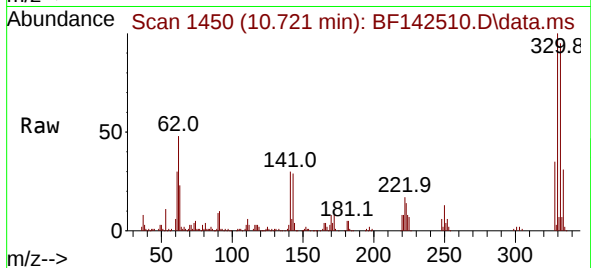
Tgt Ion:330 Resp: 141234

Ion Ratio Lower Upper

330 100

332 95.0 77.6 116.4

141 30.3 24.6 36.8



#45

2-Fluorobiphenyl

Concen: 37.543 ng

RT: 9.251 min Scan# 1200

Delta R.T. -0.018 min

Lab File: BF142510.D

Acq: 22 May 2025 15:07

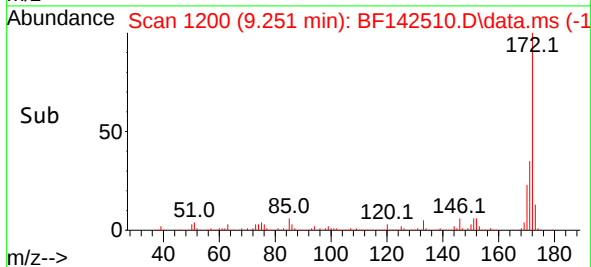
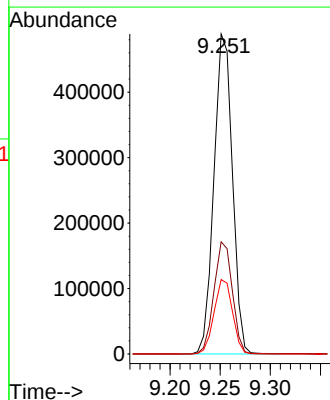
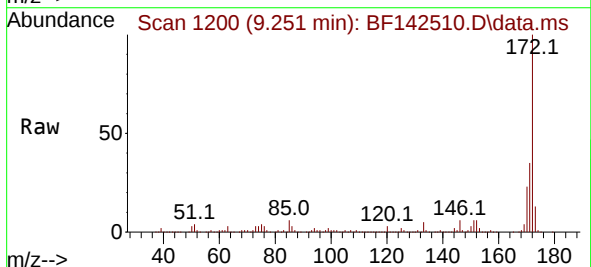
Tgt Ion:172 Resp: 624297

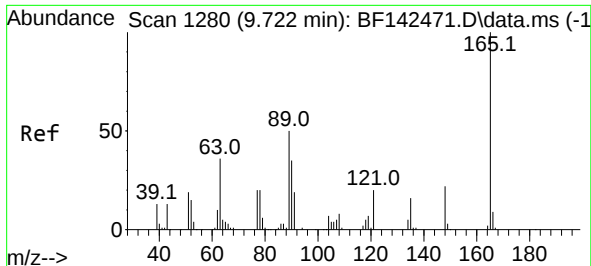
Ion Ratio Lower Upper

172 100

171 35.1 28.6 42.8

170 23.3 18.9 28.3





#51

2,6-Dinitrotoluene

Concen: 9.421 ng

RT: 9.933 min Scan# 1316

Delta R.T. 0.206 min

Lab File: BF142510.D

Acq: 22 May 2025 15:07

Instrument :

BNA_F

ClientSampleId :

SS-10

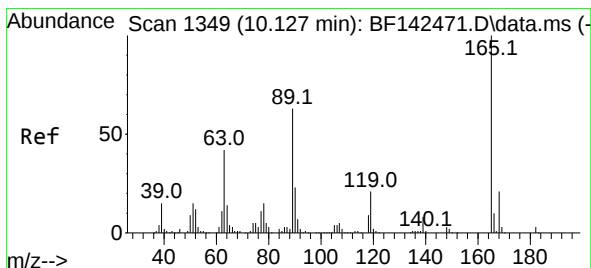
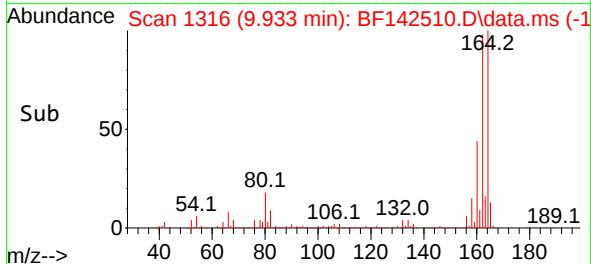
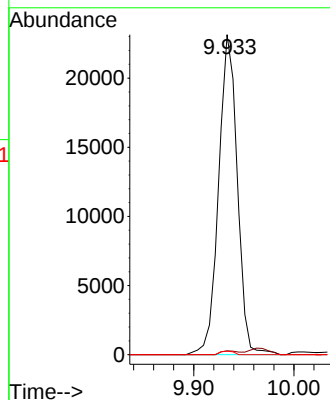
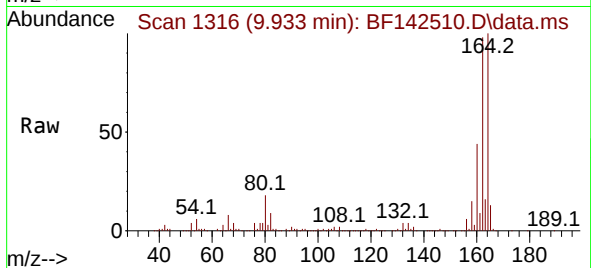
Tgt Ion:165 Resp: 29937

Ion Ratio Lower Upper

165 100

63 1.2 42.9 64.3#

89 1.1 40.2 60.4#



#57

2,4-Dinitrotoluene

Concen: 7.214 ng

RT: 9.933 min Scan# 1316

Delta R.T. -0.200 min

Lab File: BF142510.D

Acq: 22 May 2025 15:07

Tgt Ion:165 Resp: 29937

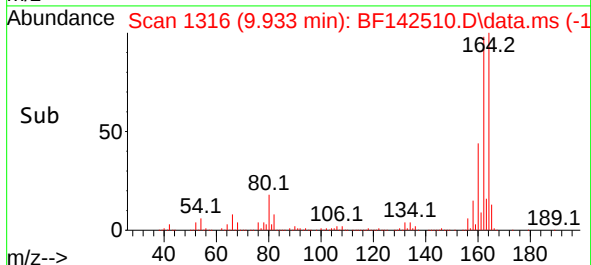
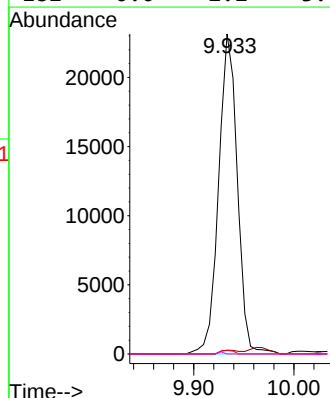
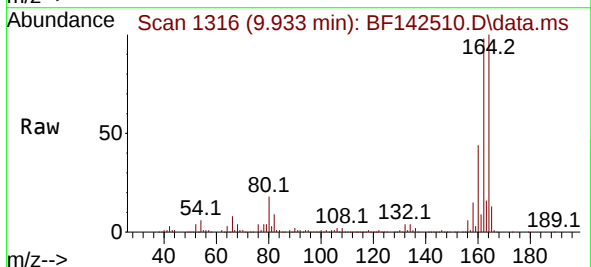
Ion Ratio Lower Upper

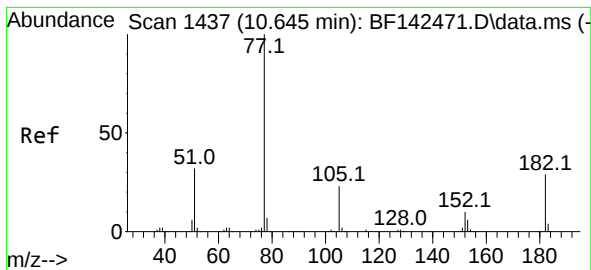
165 100

63 1.2 33.6 50.4#

89 1.1 50.2 75.4#

182 0.0 2.2 3.4#





#63

Azobenzene

Concen: 2.659 ng

RT: 10.645 min Scan# 14

Delta R.T. -0.000 min

Lab File: BF142510.D

Acq: 22 May 2025 15:07

Instrument :

BNA_F

ClientSampleId :

SS-10

Tgt Ion: 77 Resp: 34339

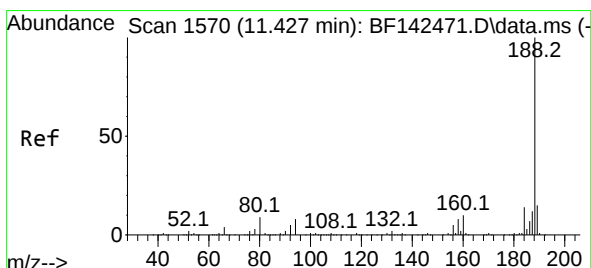
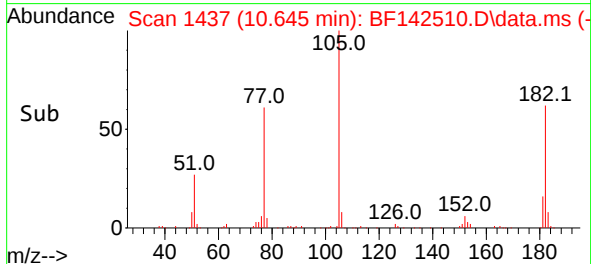
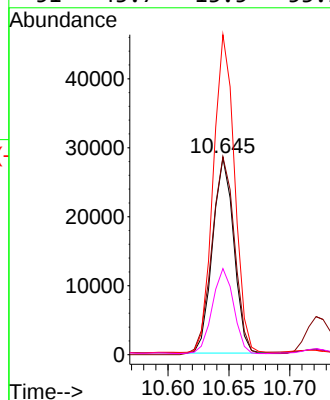
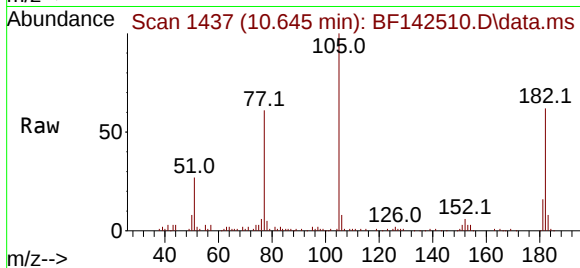
Ion Ratio Lower Upper

77 100

182 100.6 9.0 49.0#

105 162.6 2.4 42.4#

51 43.7 13.5 53.5



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.421 min Scan# 1569

Delta R.T. -0.012 min

Lab File: BF142510.D

Acq: 22 May 2025 15:07

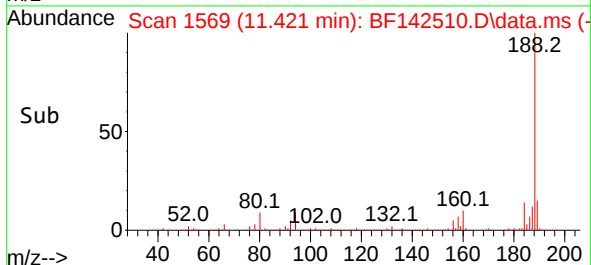
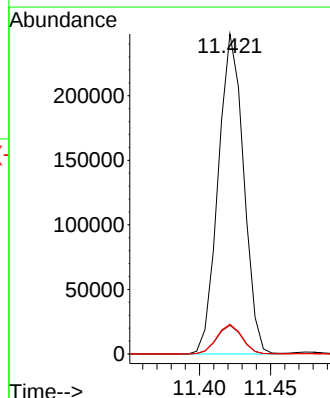
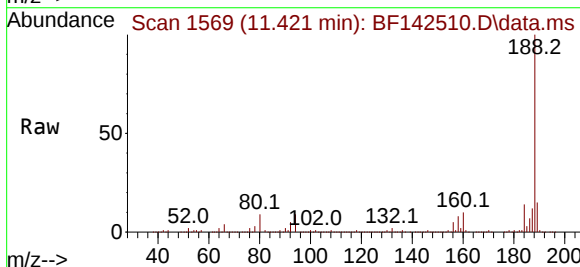
Tgt Ion:188 Resp: 308296

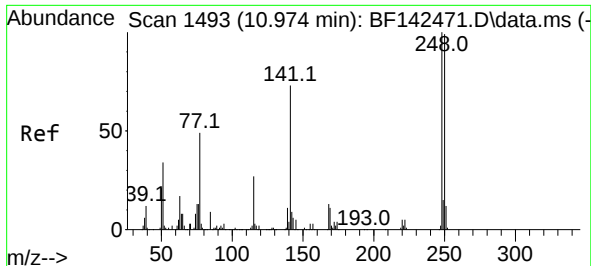
Ion Ratio Lower Upper

188 100

94 8.9 6.6 10.0

80 9.3 7.4 11.0





#67

4-Bromophenyl-phenylether

Concen: 2.438 ng

RT: 10.721 min Scan# 14

Delta R.T. -0.253 min

Lab File: BF142510.D

Acq: 22 May 2025 15:07

Instrument :

BNA_F

ClientSampleId :

SS-10

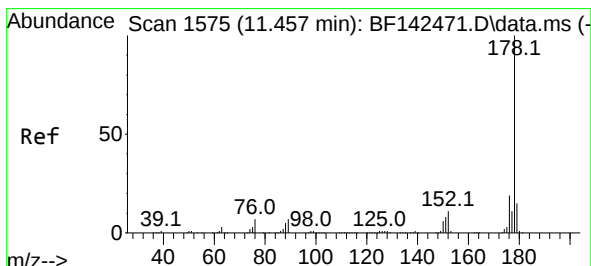
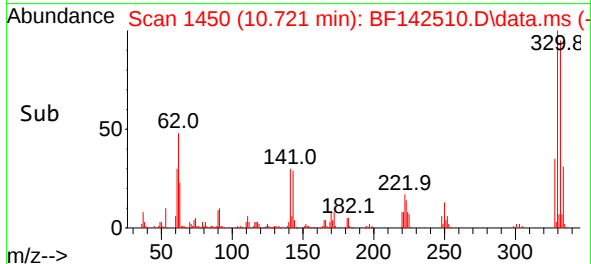
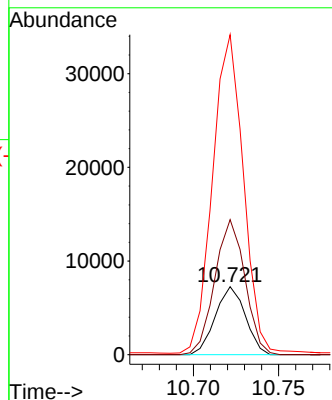
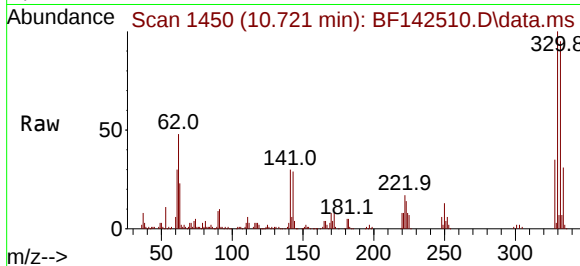
Tgt Ion:248 Resp: 8886

Ion Ratio Lower Upper

248 100

250 198.9 79.0 118.4#

141 471.1 58.4 87.6#



#71

Phenanthrene

Concen: 19.835 ng

RT: 11.445 min Scan# 1573

Delta R.T. -0.012 min

Lab File: BF142510.D

Acq: 22 May 2025 15:07

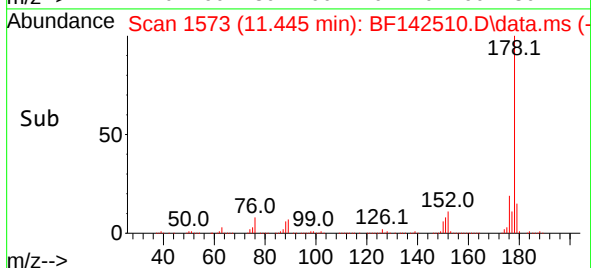
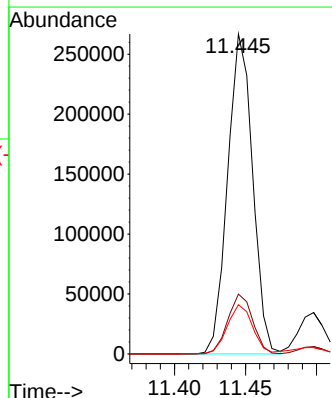
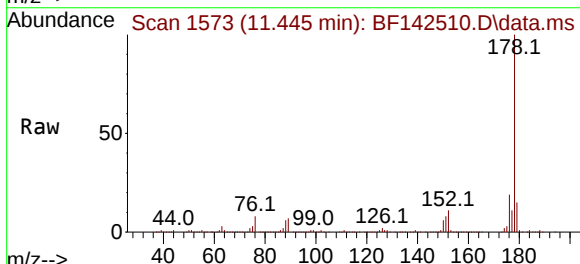
Tgt Ion:178 Resp: 326802

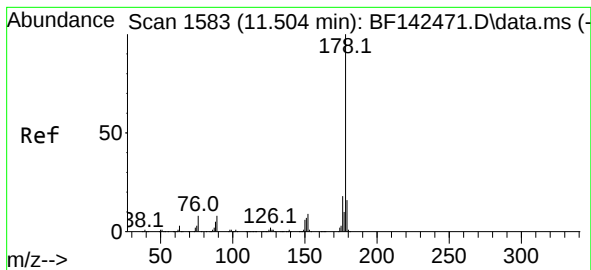
Ion Ratio Lower Upper

178 100

176 18.7 15.4 23.0

179 15.4 12.3 18.5





#72

Anthracene

Concen: 2.636 ng

RT: 11.498 min Scan# 11

Delta R.T. -0.012 min

Lab File: BF142510.D

Acq: 22 May 2025 15:07

Instrument :

BNA_F

ClientSampleId :

SS-10

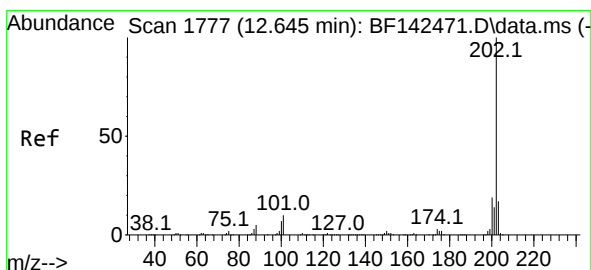
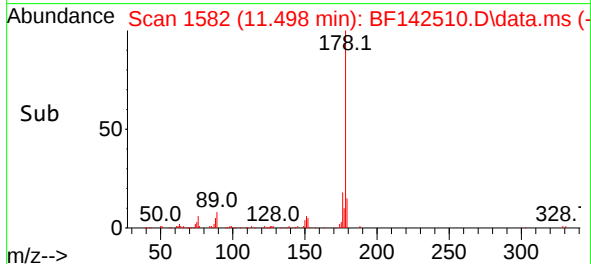
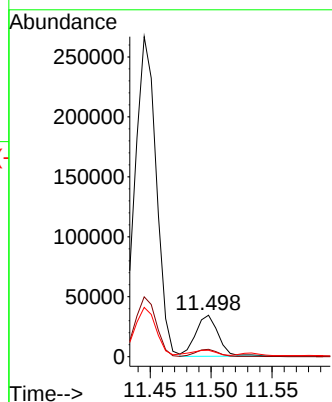
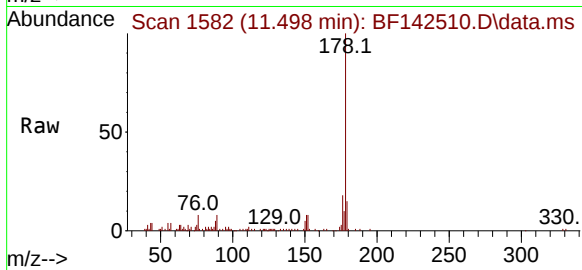
Tgt Ion:178 Resp: 44324

Ion Ratio Lower Upper

178 100

176 17.9 14.6 21.8

179 15.5 12.4 18.6



#75

Fluoranthene

Concen: 28.080 ng

RT: 12.639 min Scan# 1776

Delta R.T. -0.006 min

Lab File: BF142510.D

Acq: 22 May 2025 15:07

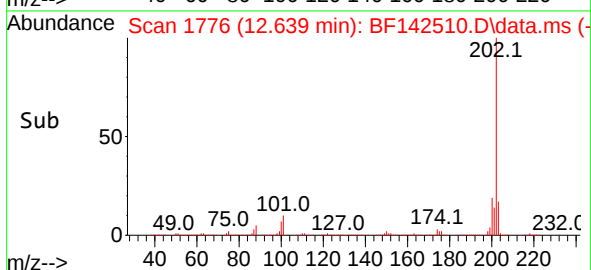
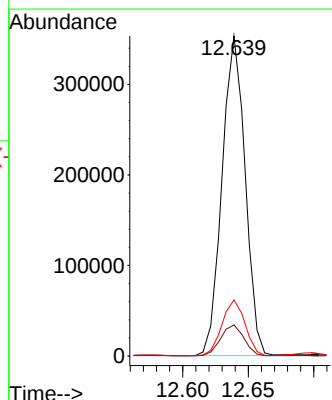
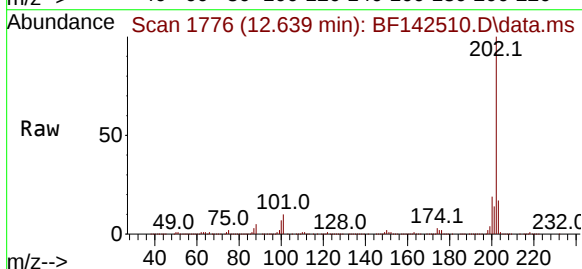
Tgt Ion:202 Resp: 432290

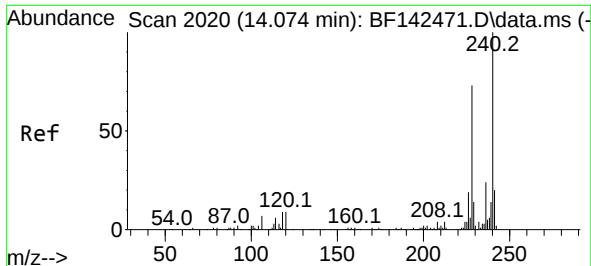
Ion Ratio Lower Upper

202 100

101 9.7 0.0 29.6

203 17.5 0.0 37.2

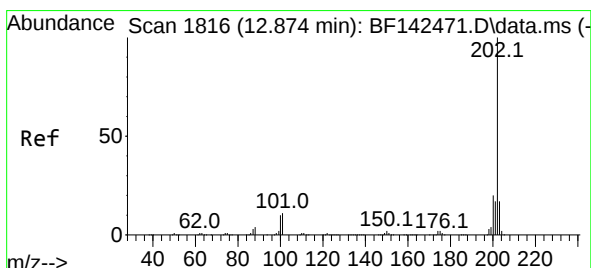
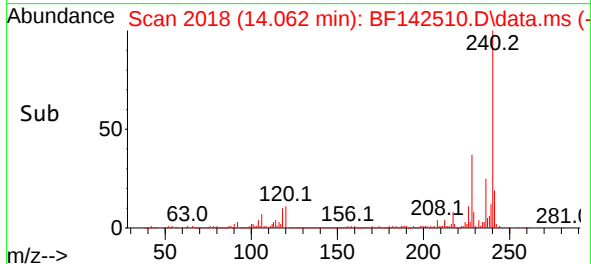
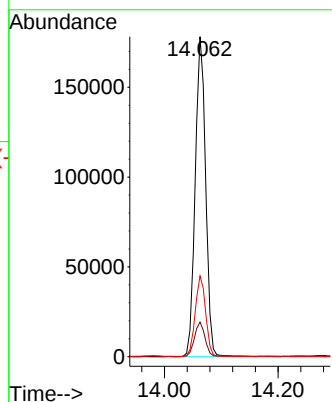
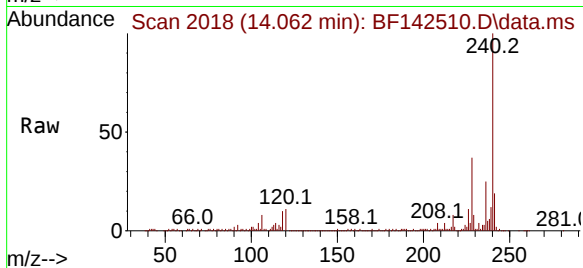




#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.062 min Scan# 20
Delta R.T. -0.012 min
Lab File: BF142510.D
Acq: 22 May 2025 15:07

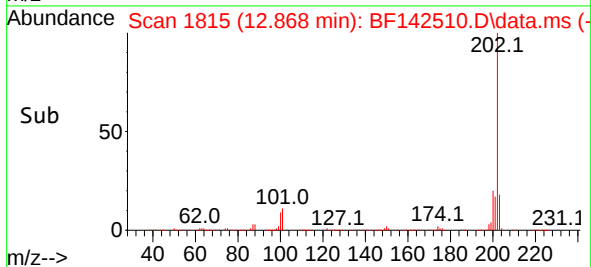
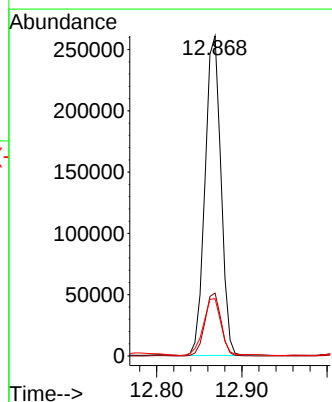
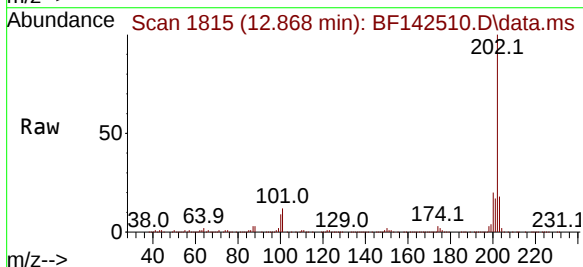
Instrument :
BNA_F
ClientSampleId :
SS-10

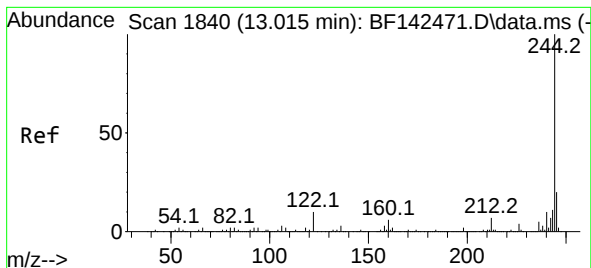
Tgt Ion:240 Resp: 228905
Ion Ratio Lower Upper
240 100
120 10.8 7.5 11.3
236 25.2 19.6 29.4



#78
Pyrene
Concen: 15.851 ng
RT: 12.868 min Scan# 1815
Delta R.T. -0.006 min
Lab File: BF142510.D
Acq: 22 May 2025 15:07

Tgt Ion:202 Resp: 338481
Ion Ratio Lower Upper
202 100
200 19.7 16.1 24.1
203 17.9 13.9 20.9





#79

Terphenyl-d14

Concen: 29.693 ng

RT: 13.010 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF142510.D

Acq: 22 May 2025 15:07

Instrument :

BNA_F

ClientSampleId :

SS-10

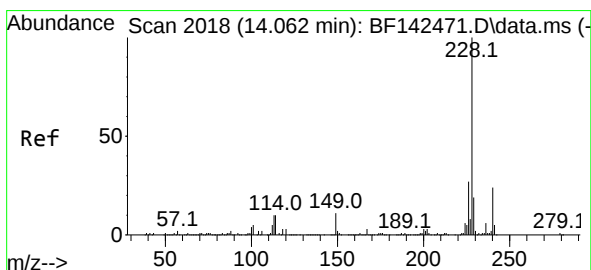
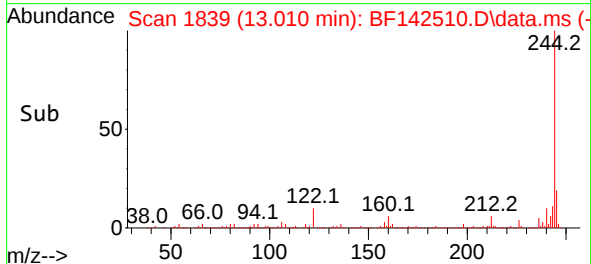
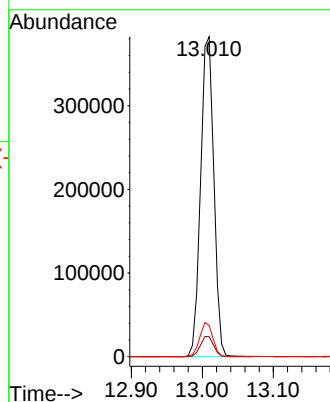
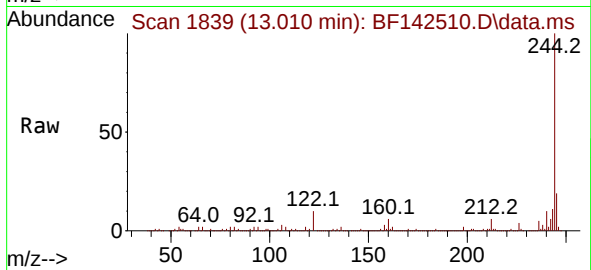
Tgt Ion:244 Resp: 497370

Ion Ratio Lower Upper

244 100

212 6.3 5.3 7.9

122 9.8 8.2 12.2



#81

Benzo(a)anthracene

Concen: 9.962 ng

RT: 14.051 min Scan# 2016

Delta R.T. -0.012 min

Lab File: BF142510.D

Acq: 22 May 2025 15:07

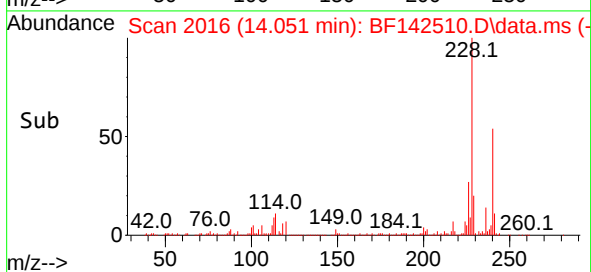
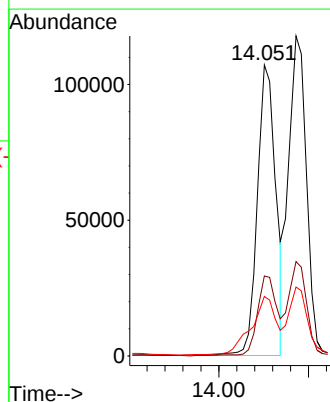
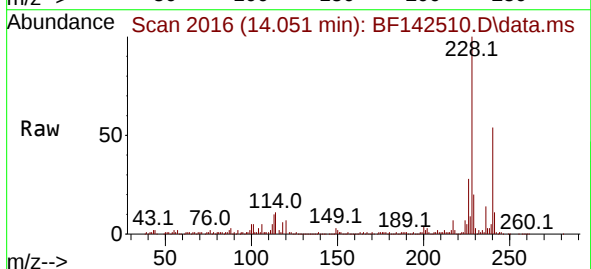
Tgt Ion:228 Resp: 152272

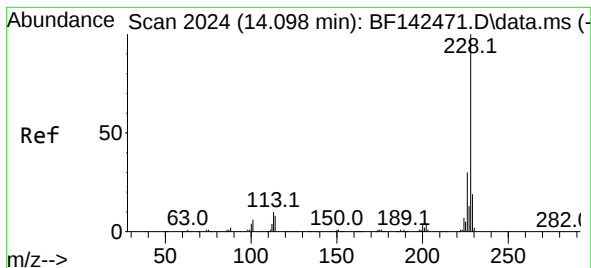
Ion Ratio Lower Upper

228 100

226 27.5 21.2 31.8

229 20.4 15.5 23.3





#83

Chrysene

Concen: 11.804 ng

RT: 14.086 min Scan# 20

Delta R.T. -0.018 min

Lab File: BF142510.D

Acq: 22 May 2025 15:07

Instrument :

BNA_F

ClientSampleId :

SS-10

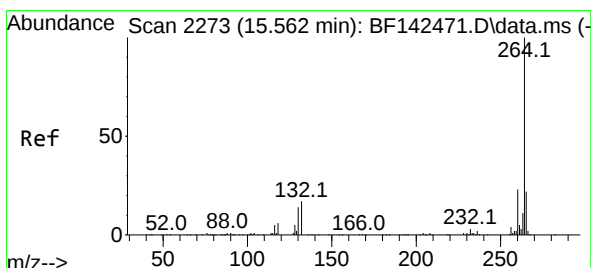
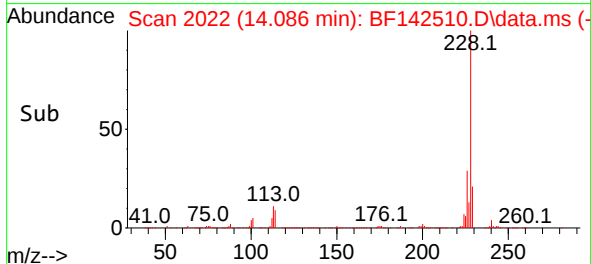
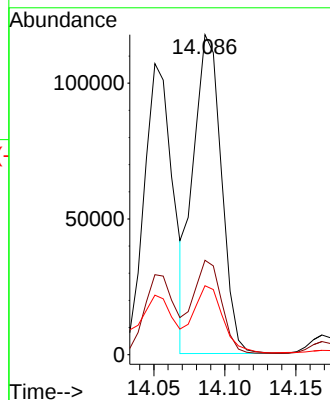
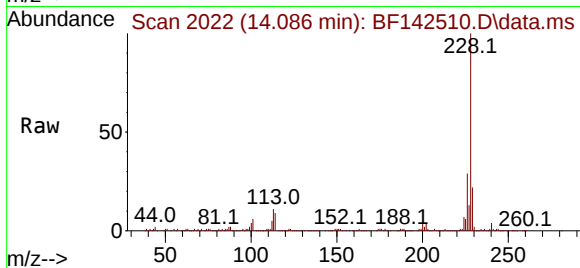
Tgt Ion:228 Resp: 162130

Ion Ratio Lower Upper

228 100

226 29.5 23.8 35.6

229 21.6 15.4 23.2



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.556 min Scan# 2272

Delta R.T. -0.012 min

Lab File: BF142510.D

Acq: 22 May 2025 15:07

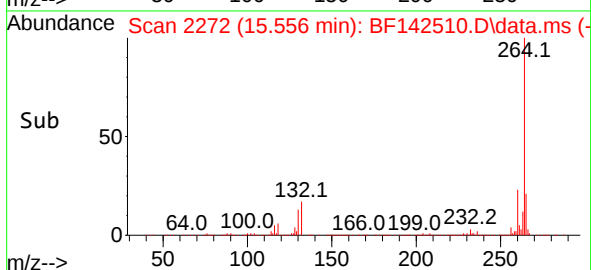
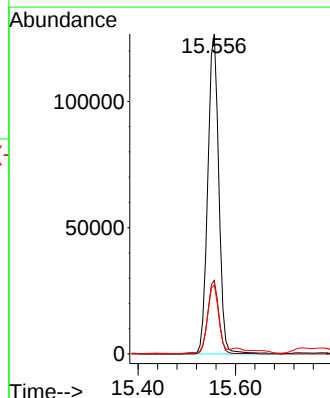
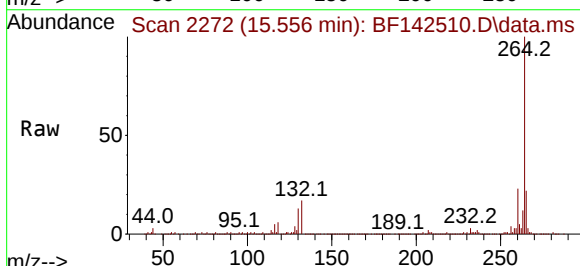
Tgt Ion:264 Resp: 198076

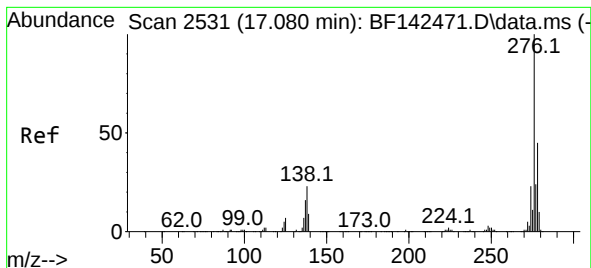
Ion Ratio Lower Upper

264 100

260 23.0 18.6 28.0

265 21.5 17.7 26.5





#87

Indeno(1,2,3-cd)pyrene

Concen: 3.823 ng

RT: 17.050 min Scan# 2197

Delta R.T. -0.041 min

Lab File: BF142510.D

Acq: 22 May 2025 15:07

Instrument :

BNA_F

ClientSampleId :

SS-10

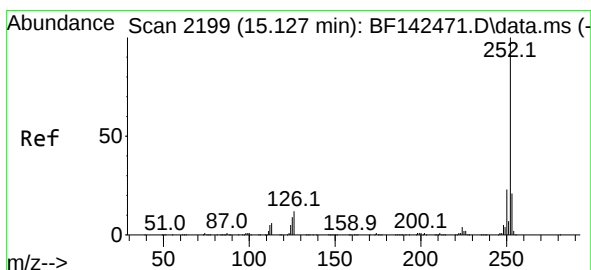
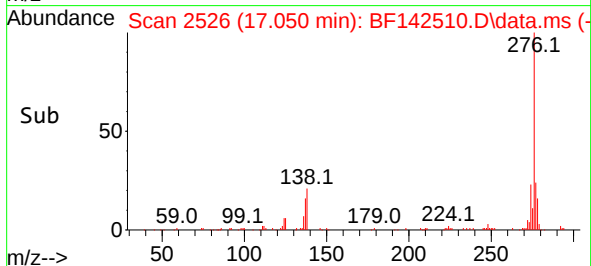
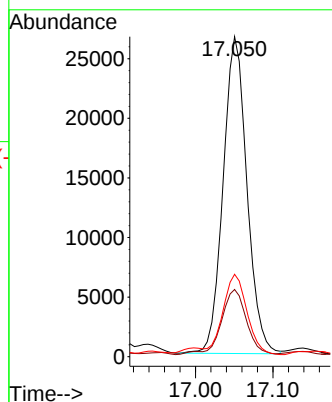
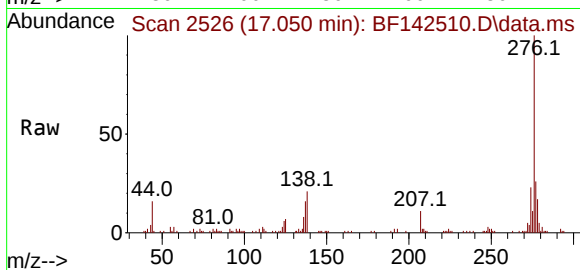
Tgt Ion:276 Resp: 56848

Ion Ratio Lower Upper

276 100

138 22.2 19.9 29.9

277 26.3 20.2 30.2



#88

Benzo(b)fluoranthene

Concen: 20.226 ng

RT: 15.115 min Scan# 2197

Delta R.T. -0.012 min

Lab File: BF142510.D

Acq: 22 May 2025 15:07

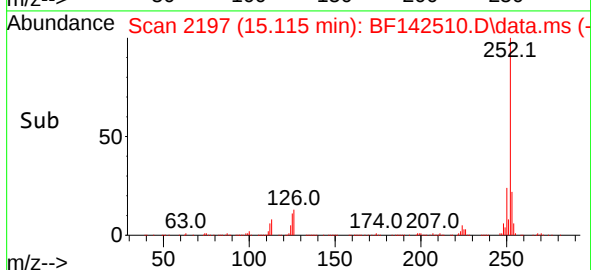
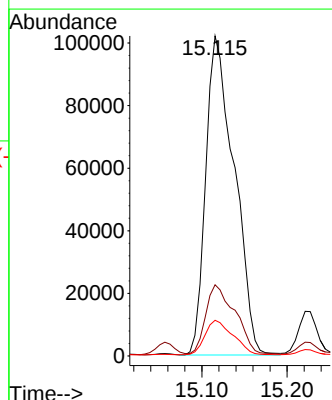
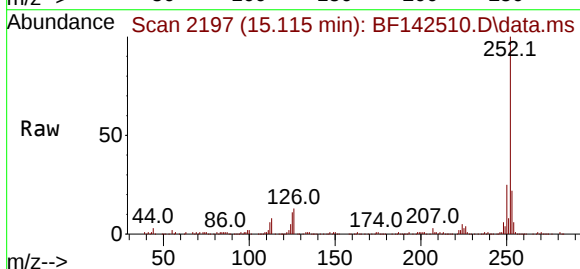
Tgt Ion:252 Resp: 237116

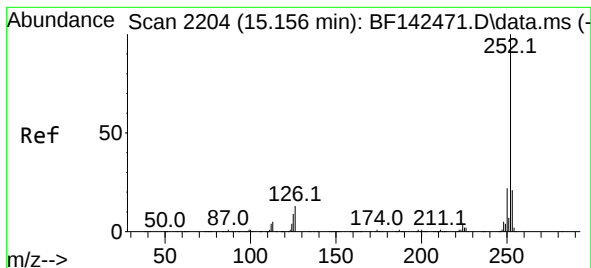
Ion Ratio Lower Upper

252 100

253 22.3 17.0 25.4

125 11.2 7.4 11.0#





#89

Benzo(k)fluoranthene

Concen: 21.595 ng

RT: 15.115 min Scan# 21

Delta R.T. -0.047 min

Lab File: BF142510.D

Acq: 22 May 2025 15:07

Instrument :

BNA_F

ClientSampleId :

SS-10

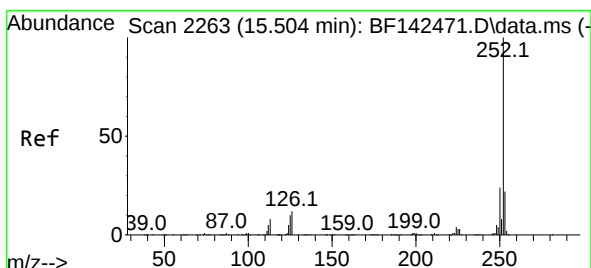
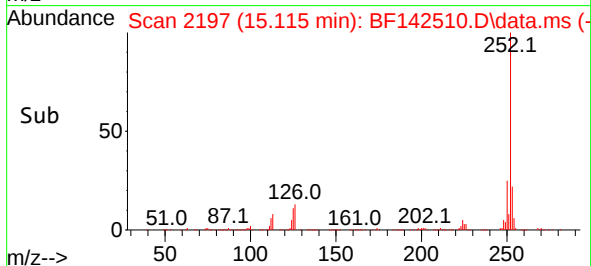
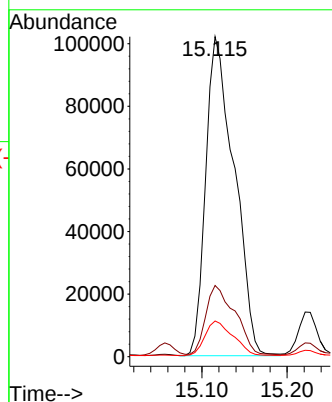
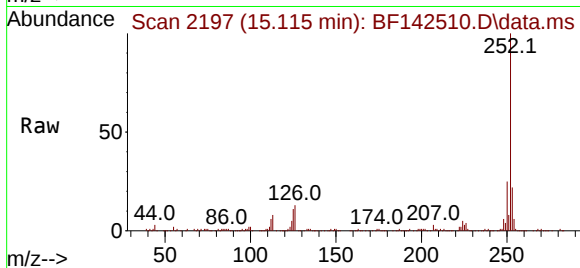
Tgt Ion:252 Resp: 237116

Ion Ratio Lower Upper

252 100

253 22.3 17.0 25.4

125 11.2 7.3 10.9#



#90

Benzo(a)pyrene

Concen: 8.335 ng

RT: 15.486 min Scan# 2260

Delta R.T. -0.024 min

Lab File: BF142510.D

Acq: 22 May 2025 15:07

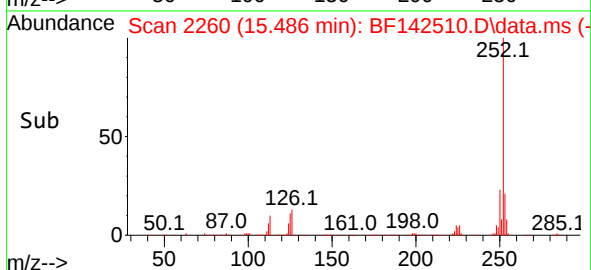
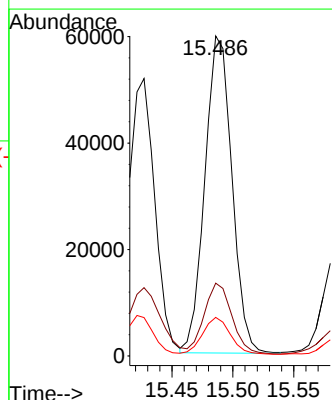
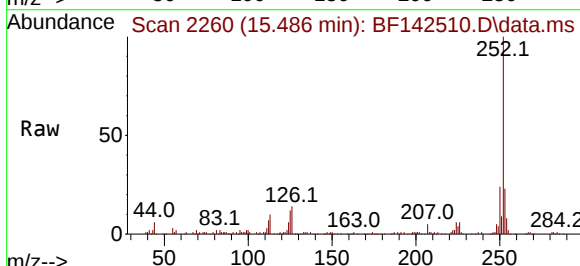
Tgt Ion:252 Resp: 92107

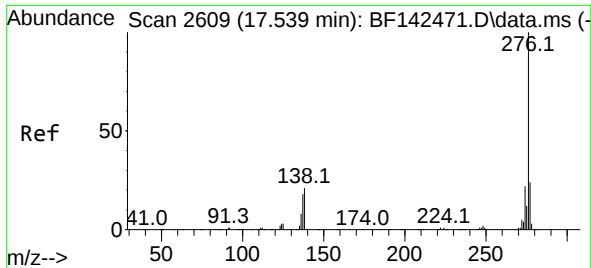
Ion Ratio Lower Upper

252 100

253 22.8 17.4 26.0

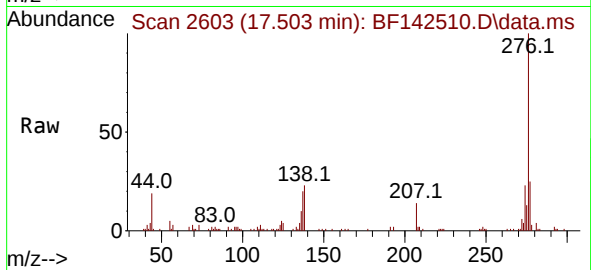
125 12.0 7.9 11.9#





#92
 Benzo(g,h,i)perylene
 Concen: 4.124 ng
 RT: 17.503 min Scan# 20
 Delta R.T. -0.053 min
 Lab File: BF142510.D
 Acq: 22 May 2025 15:07

Instrument :
 BNA_F
 ClientSampleId :
 SS-10



Tgt Ion:	276	Resp:	49747
Ion	Ratio	Lower	Upper
276	100		
277	25.4	19.2	28.8
138	22.9	16.8	25.2

