

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052725\
 Data File : BF142562.D
 Acq On : 27 May 2025 15:23
 Operator : RC/JU
 Sample : Q2127-01
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 COMP-1

Quant Time: May 27 15:58:42 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)

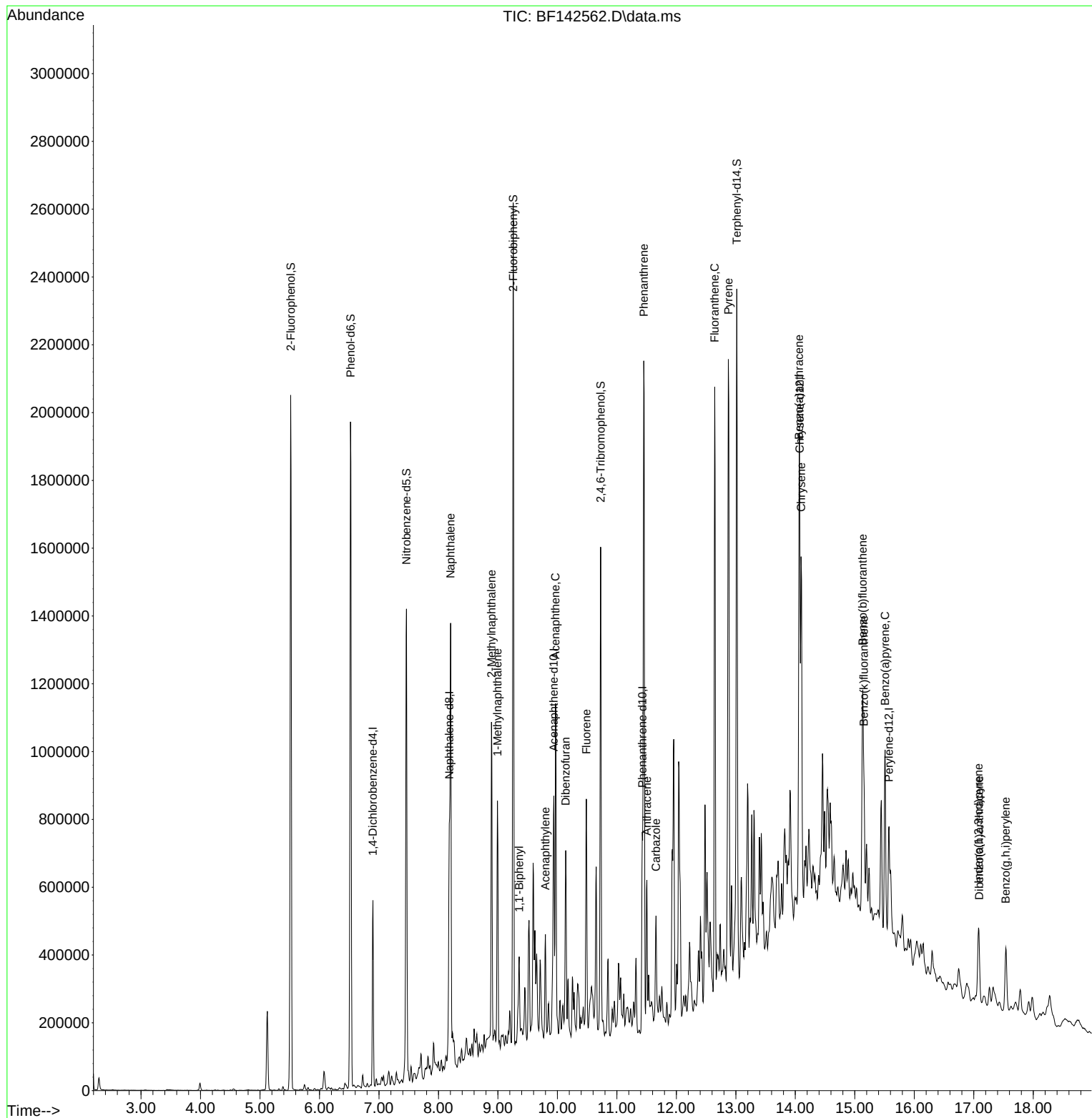
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.898	152	116290	20.000	ng	0.00
21) Naphthalene-d8	8.181	136	421724	20.000	ng	0.00
39) Acenaphthene-d10	9.939	164	209767	20.000	ng	0.00
64) Phenanthrene-d10	11.428	188	307600	20.000	ng	0.00
76) Chrysene-d12	14.074	240	262217	20.000	ng	# 0.00
86) Perylene-d12	15.574	264	191299	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.516	112	817788	118.477	ng	0.00
7) Phenol-d6	6.522	99	1019090	122.650	ng	-0.01
23) Nitrobenzene-d5	7.463	82	620558	80.238	ng	-0.01
42) 2,4,6-Tribromophenol	10.728	330	244920	105.199	ng	-0.01
45) 2-Fluorobiphenyl	9.257	172	1106527	70.784	ng	-0.01
79) Terphenyl-d14	13.016	244	983296	51.244	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.204	128	763229	36.755	ng	100
37) 2-Methylnaphthalene	8.892	142	378209	28.950	ng	100
38) 1-Methylnaphthalene	8.992	142	266387	19.713	ng	100
46) 1,1'-Biphenyl	9.357	154	108065	6.640	ng	99
49) Acenaphthylene	9.798	152	99626	4.907	ng	# 93
52) Acenaphthene	9.969	154	293429	23.668	ng	100
55) Dibenzofuran	10.139	168	224481	12.583	ng	# 98
58) Fluorene	10.486	166	276171	20.038	ng	99
71) Phenanthrene	11.451	178	1093613	66.527	ng	99
72) Anthracene	11.504	178	261642	15.595	ng	99
73) Carbazole	11.657	167	154764	10.791	ng	100
75) Fluoranthene	12.645	202	1023136	66.609	ng	97
78) Pyrene	12.875	202	1113447	45.519	ng	97
81) Benzo(a)anthracene	14.063	228	604201	34.507	ng	# 91
83) Chrysene	14.098	228	567738	36.085	ng	# 94
87) Indeno(1,2,3-cd)pyrene	17.080	276	172169	11.988	ng	98
88) Benzo(b)fluoranthene	15.133	252	502699m	44.400	ng	
89) Benzo(k)fluoranthene	15.151	252	141814m	13.373	ng	
90) Benzo(a)pyrene	15.510	252	350827	32.873	ng	96
91) Dibenzo(a,h)anthracene	17.092	278	47636	4.090	ng	# 83
92) Benzo(g,h,i)perylene	17.539	276	176766	15.173	ng	98

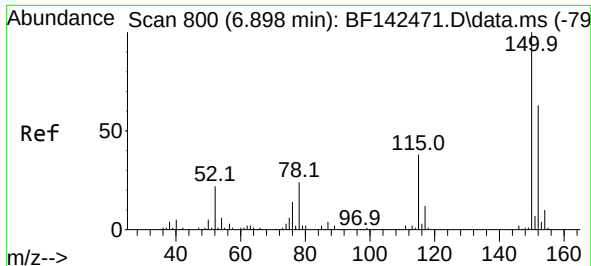
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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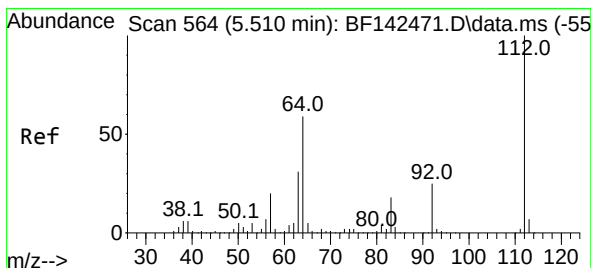
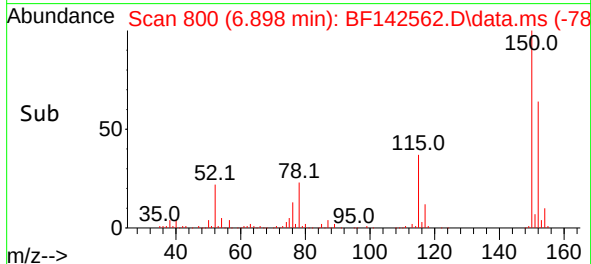
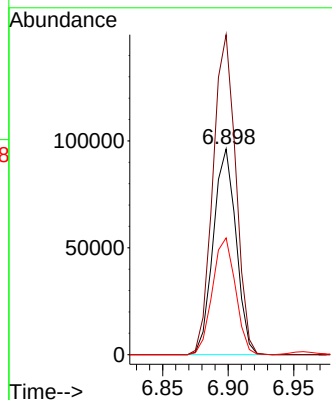
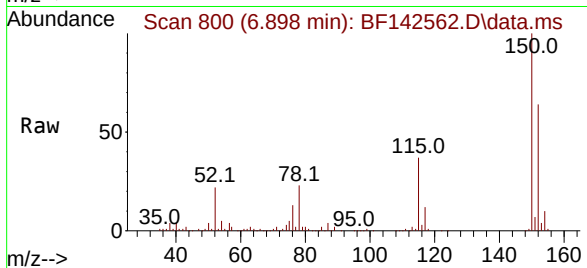




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.898 min Scan# 800
Delta R.T. -0.006 min
Lab File: BF142562.D
Acq: 27 May 2025 15:23

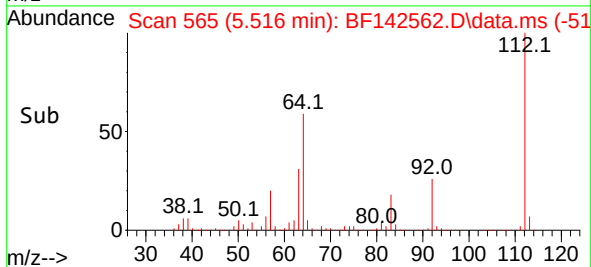
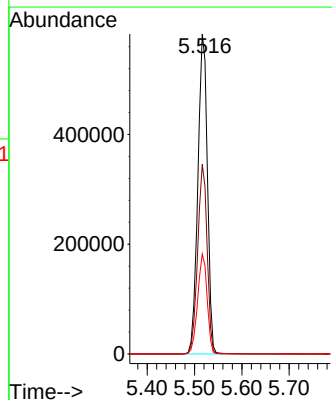
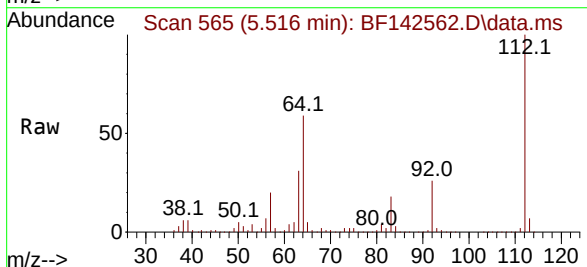
Instrument :
BNA_F
ClientSampleId :
COMP-1

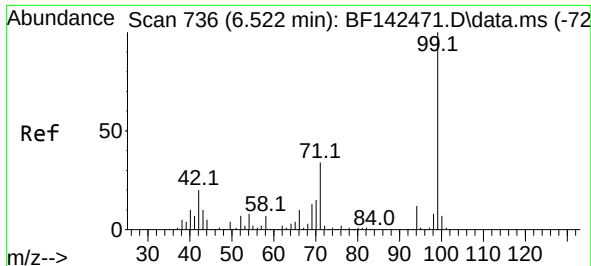
Tgt Ion:152 Resp: 116290
Ion Ratio Lower Upper
152 100
150 155.5 128.2 192.4
115 56.8 48.3 72.5



#5
2-Fluorophenol
Concen: 118.477 ng
RT: 5.516 min Scan# 565
Delta R.T. 0.000 min
Lab File: BF142562.D
Acq: 27 May 2025 15:23

Tgt Ion:112 Resp: 817788
Ion Ratio Lower Upper
112 100
64 59.3 47.5 71.3
63 31.3 24.9 37.3

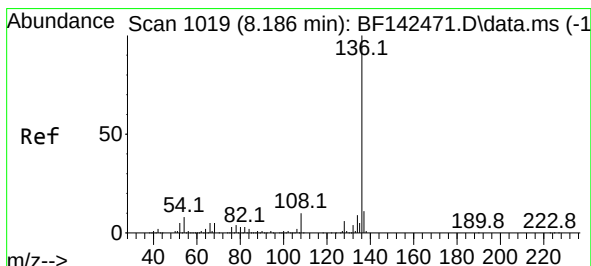
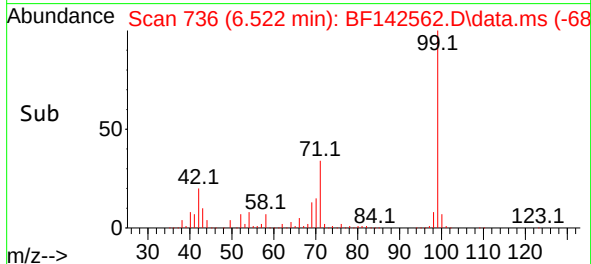
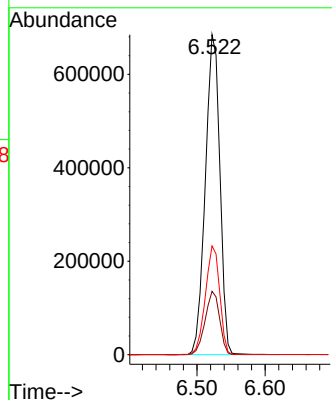
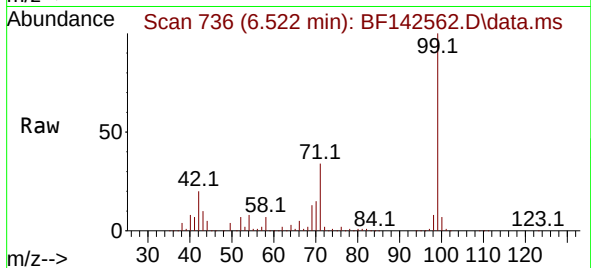




#7
Phenol-d6
Concen: 122.650 ng
RT: 6.522 min Scan# 71
Delta R.T. -0.012 min
Lab File: BF142562.D
Acq: 27 May 2025 15:23

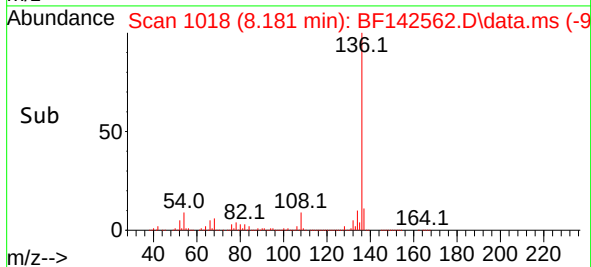
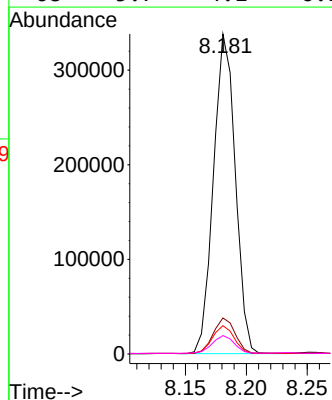
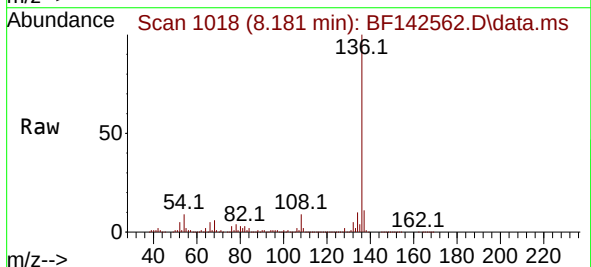
Instrument :
BNA_F
ClientSampleId :
COMP-1

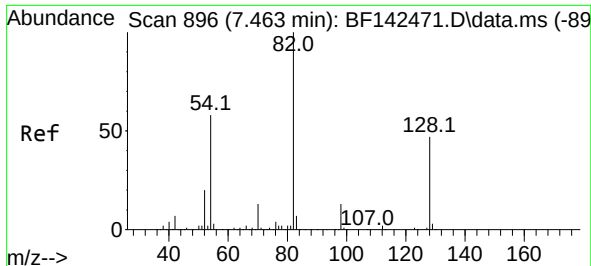
Tgt Ion: 99 Resp: 1019090
Ion Ratio Lower Upper
99 100
42 19.8 16.2 24.2
71 34.0 27.3 40.9



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.181 min Scan# 1018
Delta R.T. -0.006 min
Lab File: BF142562.D
Acq: 27 May 2025 15:23

Tgt Ion:136 Resp: 421724
Ion Ratio Lower Upper
136 100
137 11.3 8.6 13.0
54 8.8 6.6 10.0
68 5.7 4.1 6.1





#23

Nitrobenzene-d5

Concen: 80.238 ng

RT: 7.463 min Scan# 896

Delta R.T. -0.012 min

Lab File: BF142562.D

Acq: 27 May 2025 15:23

Instrument :

BNA_F

ClientSampleId :

COMP-1

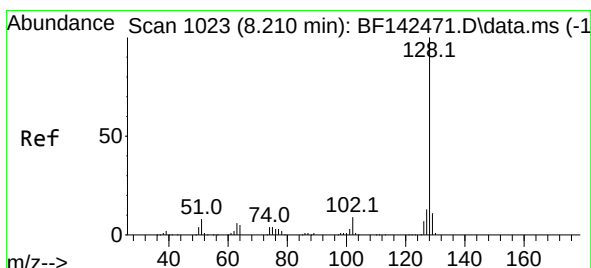
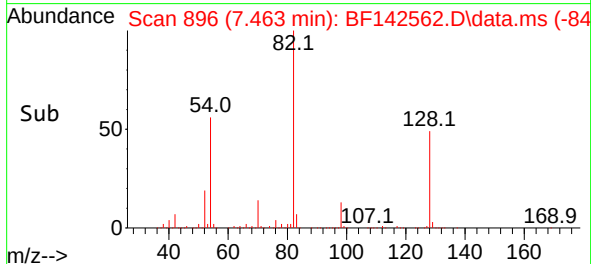
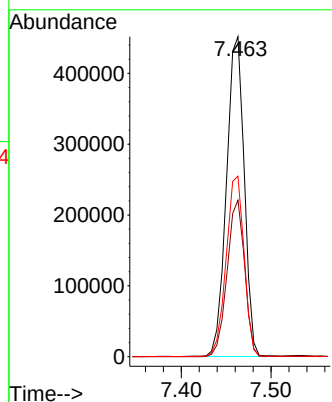
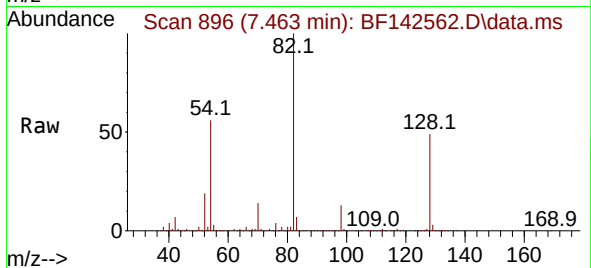
Tgt Ion: 82 Resp: 620558

Ion Ratio Lower Upper

82 100

128 48.9 37.4 56.2

54 56.4 46.6 70.0



#31

Naphthalene

Concen: 36.755 ng

RT: 8.204 min Scan# 1022

Delta R.T. -0.006 min

Lab File: BF142562.D

Acq: 27 May 2025 15:23

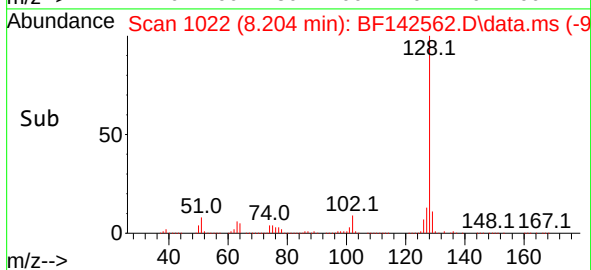
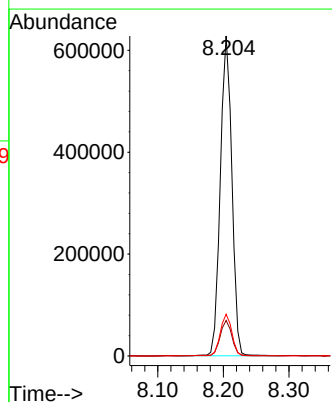
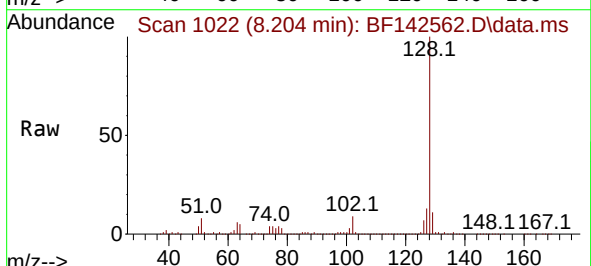
Tgt Ion: 128 Resp: 763229

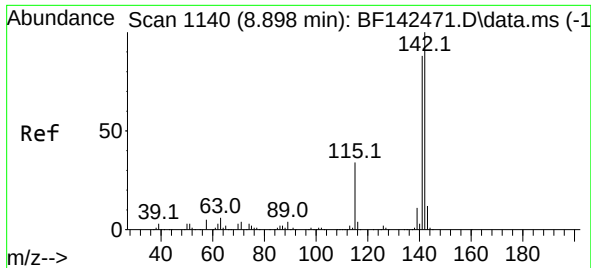
Ion Ratio Lower Upper

128 100

129 11.1 8.9 13.3

127 13.1 10.5 15.7





#37

2-Methylnaphthalene

Concen: 28.950 ng

RT: 8.892 min Scan# 1139

Delta R.T. -0.006 min

Lab File: BF142562.D

Acq: 27 May 2025 15:23

Instrument :

BNA_F

ClientSampleId :

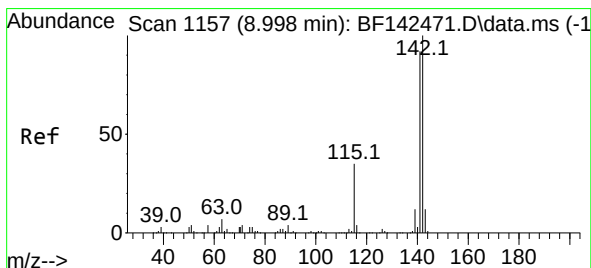
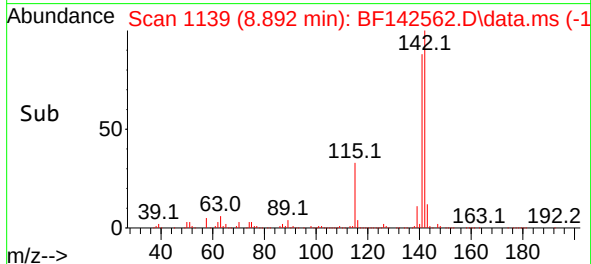
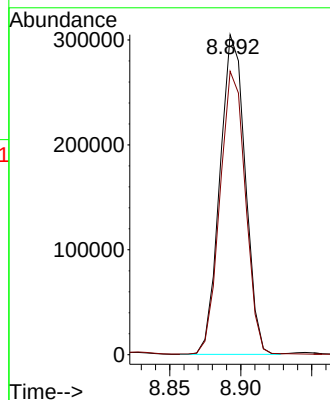
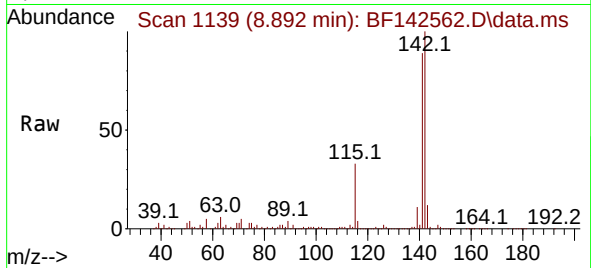
COMP-1

Tgt Ion:142 Resp: 378209

Ion Ratio Lower Upper

142 100

141 88.6 70.7 106.1



#38

1-Methylnaphthalene

Concen: 19.713 ng

RT: 8.992 min Scan# 1156

Delta R.T. -0.006 min

Lab File: BF142562.D

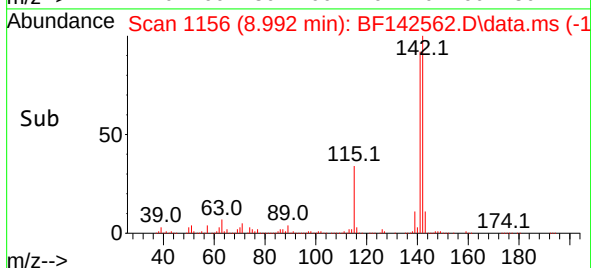
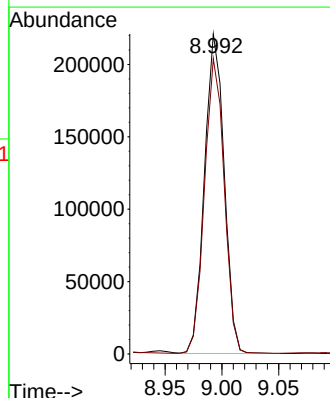
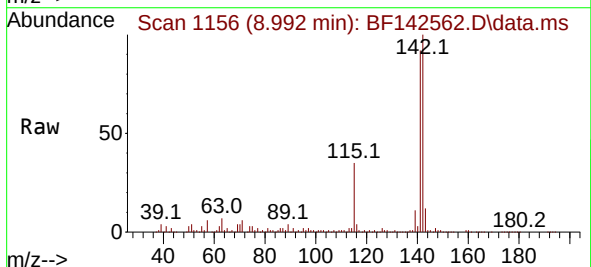
Acq: 27 May 2025 15:23

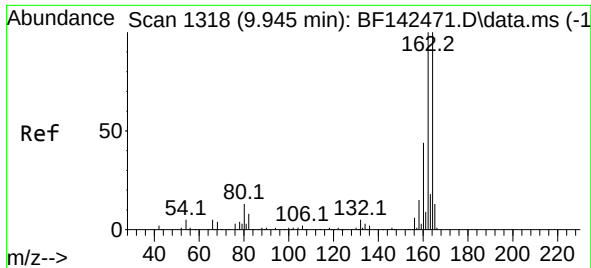
Tgt Ion:142 Resp: 266387

Ion Ratio Lower Upper

142 100

141 92.3 73.4 110.2

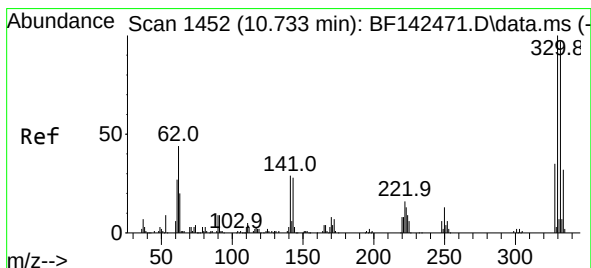
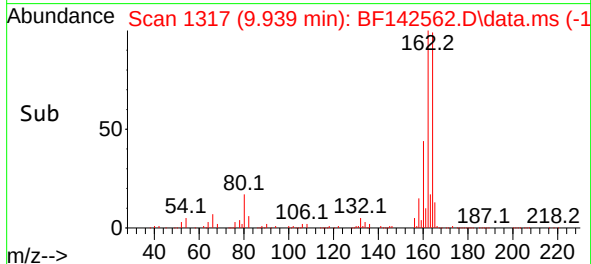
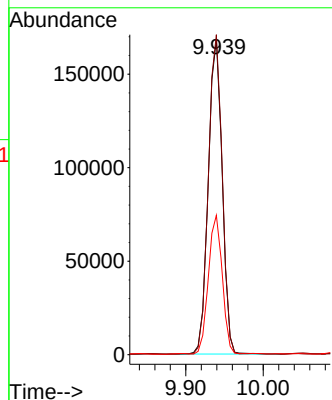
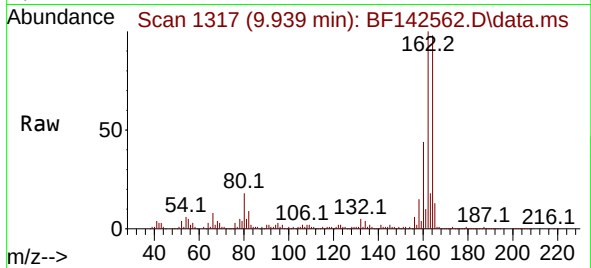




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.939 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF142562.D
Acq: 27 May 2025 15:23

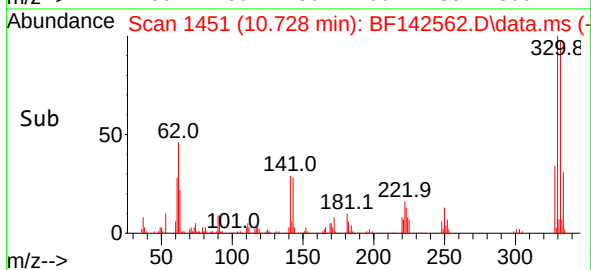
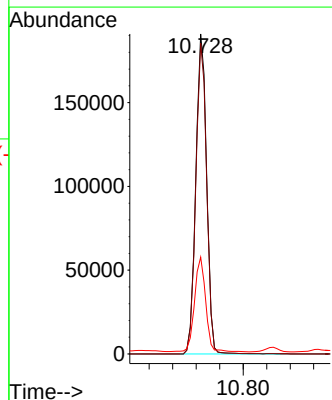
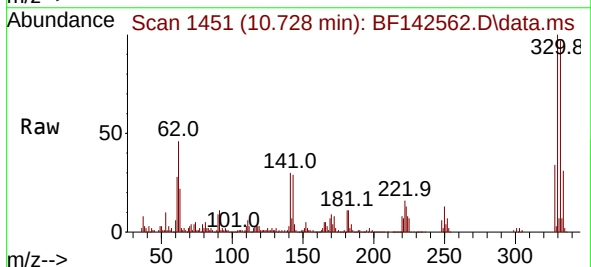
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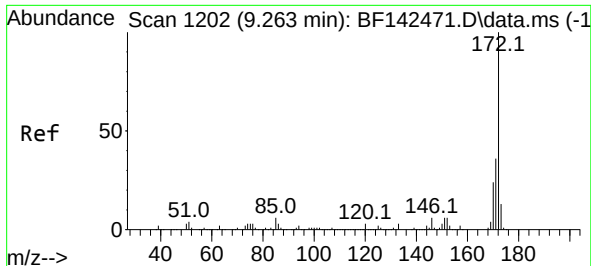
Tgt Ion:164 Resp: 209767
Ion Ratio Lower Upper
164 100
162 101.6 80.2 120.4
160 44.3 35.6 53.4



#42
2,4,6-Tribromophenol
Concen: 105.199 ng
RT: 10.728 min Scan# 1451
Delta R.T. -0.012 min
Lab File: BF142562.D
Acq: 27 May 2025 15:23

Tgt Ion:330 Resp: 244920
Ion Ratio Lower Upper
330 100
332 96.9 77.6 116.4
141 30.3 24.6 36.8





#45

2-Fluorobiphenyl

Concen: 70.784 ng

RT: 9.257 min Scan# 11

Delta R.T. -0.012 min

Lab File: BF142562.D

Acq: 27 May 2025 15:23

Instrument :

BNA_F

ClientSampleId :

COMP-1

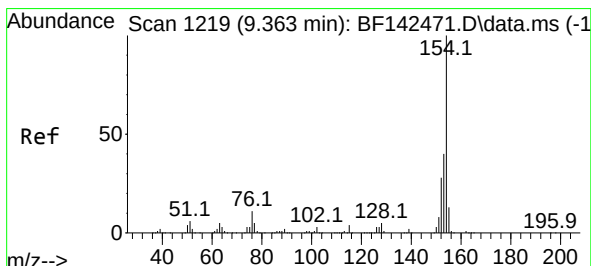
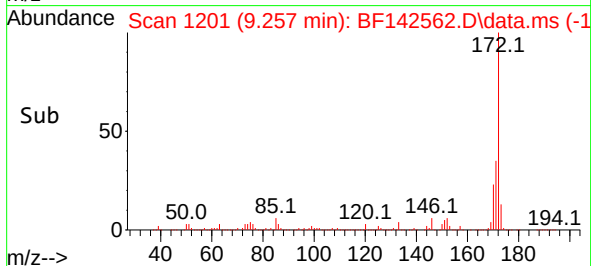
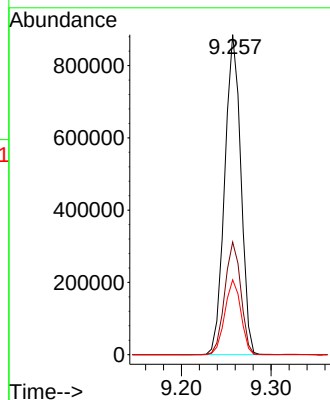
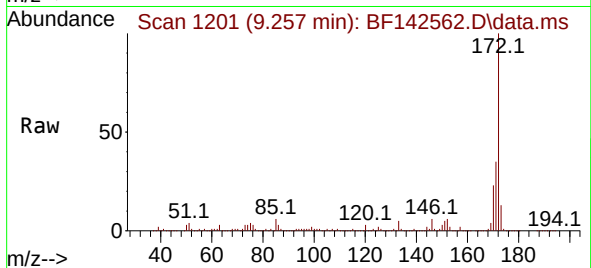
Tgt Ion:172 Resp: 1106527

Ion Ratio Lower Upper

172 100

171 35.2 28.6 42.8

170 23.4 18.9 28.3



#46

1,1'-Biphenyl

Concen: 6.640 ng

RT: 9.357 min Scan# 1218

Delta R.T. -0.012 min

Lab File: BF142562.D

Acq: 27 May 2025 15:23

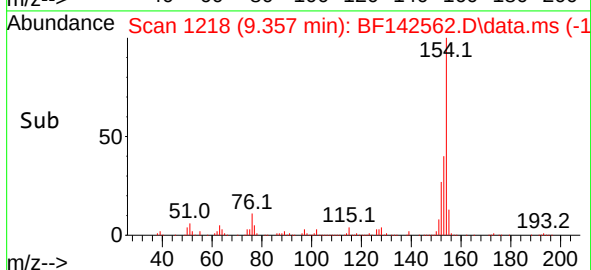
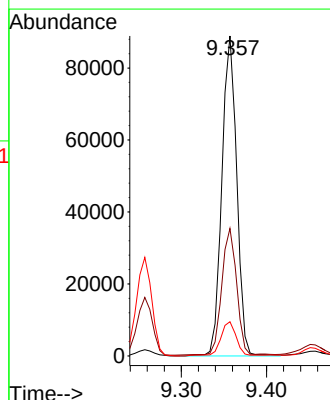
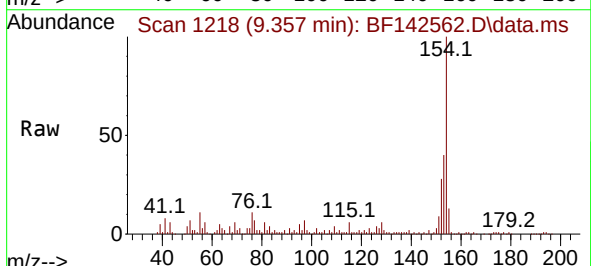
Tgt Ion:154 Resp: 108065

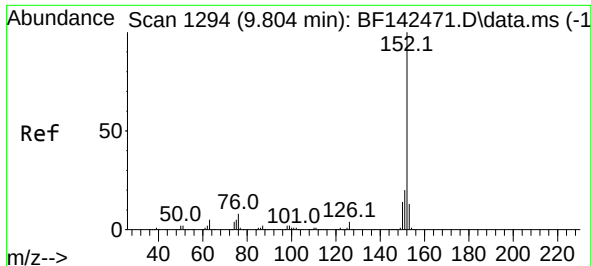
Ion Ratio Lower Upper

154 100

153 39.9 20.4 60.4

76 10.7 0.0 30.8

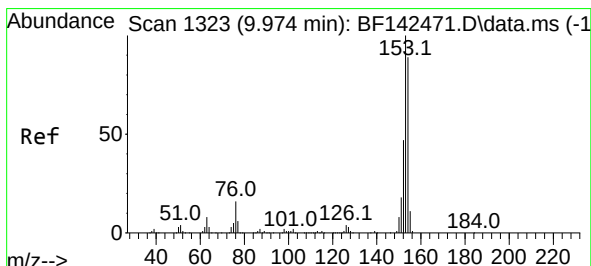
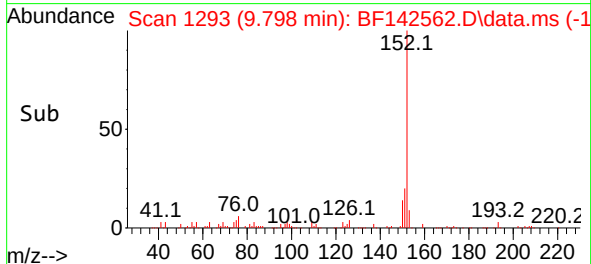
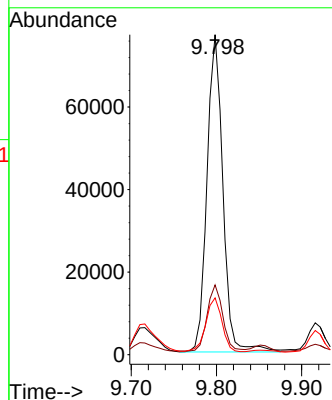
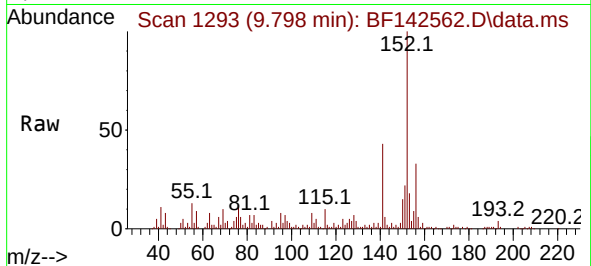




#49
Acenaphthylene
Concen: 4.907 ng
RT: 9.798 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF142562.D
Acq: 27 May 2025 15:23

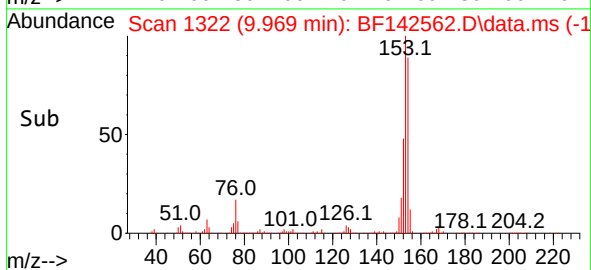
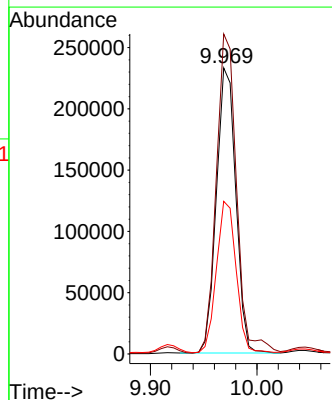
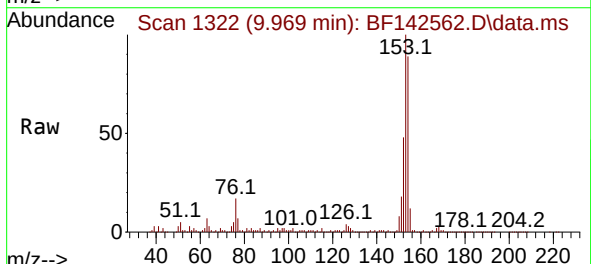
Instrument :
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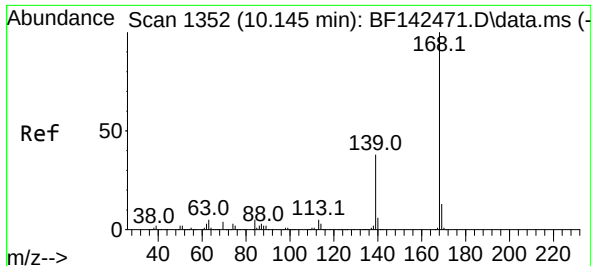
Tgt Ion:152 Resp: 99626
Ion Ratio Lower Upper
152 100
151 21.8 15.8 23.8
153 17.8 10.6 15.8#



#52
Acenaphthene
Concen: 23.668 ng
RT: 9.969 min Scan# 1322
Delta R.T. -0.011 min
Lab File: BF142562.D
Acq: 27 May 2025 15:23

Tgt Ion:154 Resp: 293429
Ion Ratio Lower Upper
154 100
153 111.9 90.0 135.0
152 53.4 42.6 64.0

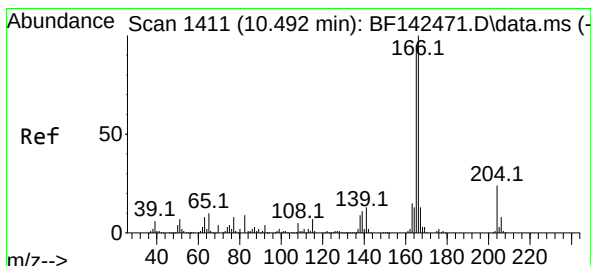
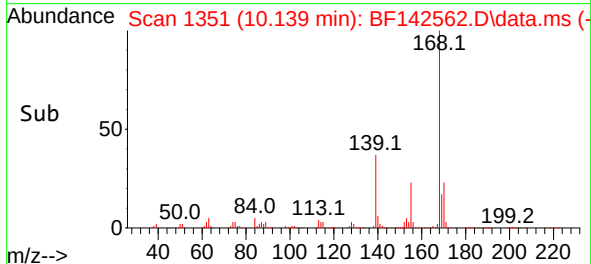
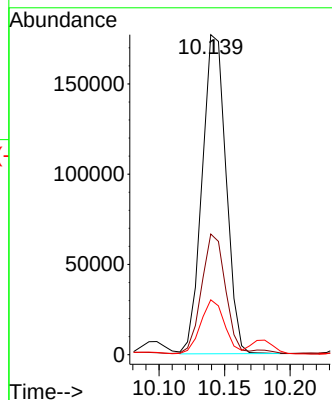
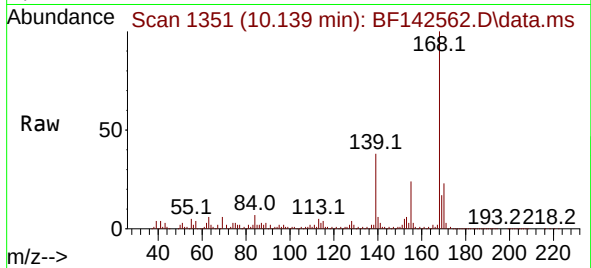




#55
Dibenzenofuran
Concen: 12.583 ng
RT: 10.139 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF142562.D
Acq: 27 May 2025 15:23

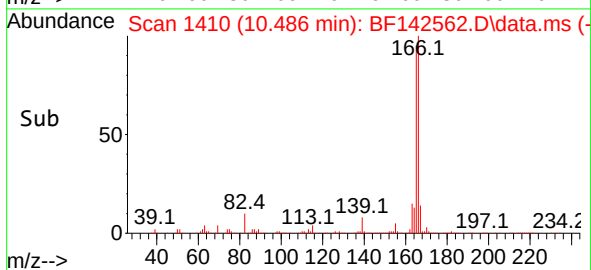
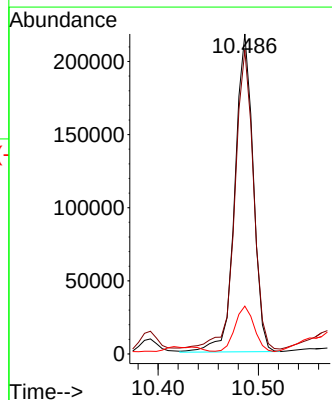
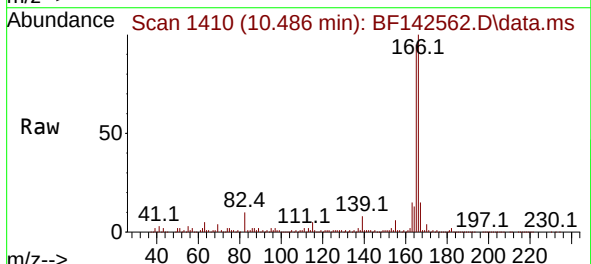
Instrument :
BNA_F
ClientSampleId :
COMP-1

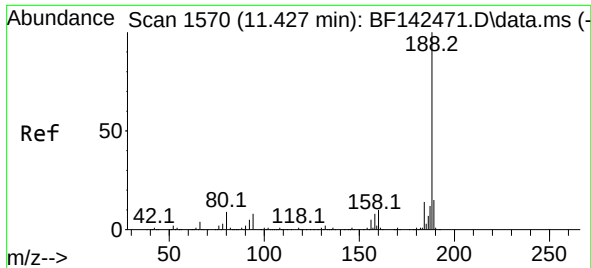
Tgt Ion:168 Resp: 224481
Ion Ratio Lower Upper
168 100
139 37.7 30.2 45.2
169 17.2 10.7 16.1#



#58
Fluorene
Concen: 20.038 ng
RT: 10.486 min Scan# 1410
Delta R.T. -0.012 min
Lab File: BF142562.D
Acq: 27 May 2025 15:23

Tgt Ion:166 Resp: 276171
Ion Ratio Lower Upper
166 100
165 94.9 75.8 113.8
167 14.9 10.6 16.0

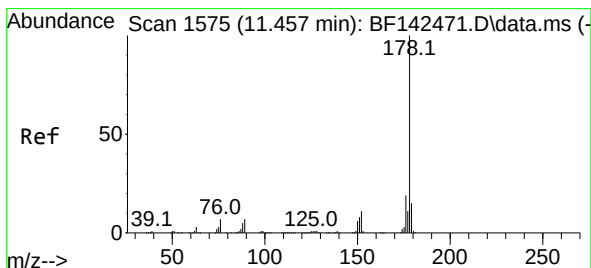
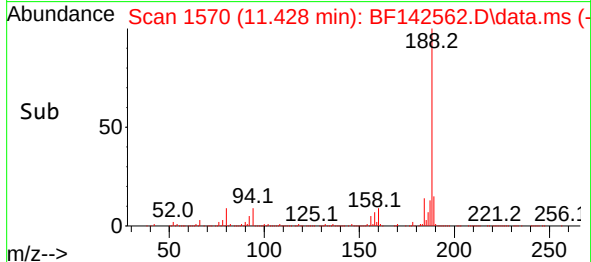
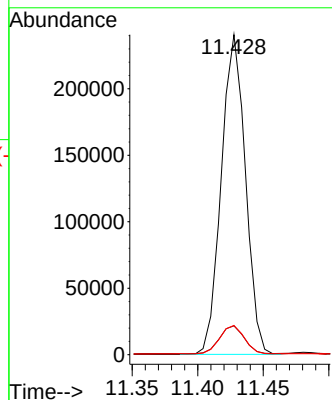
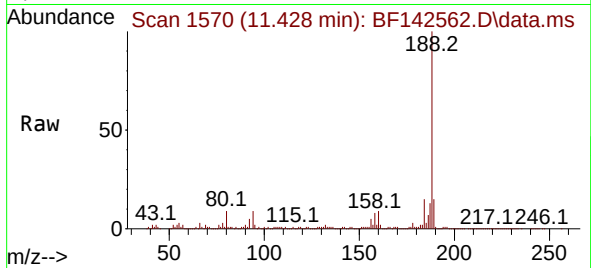




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.428 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF142562.D
Acq: 27 May 2025 15:23

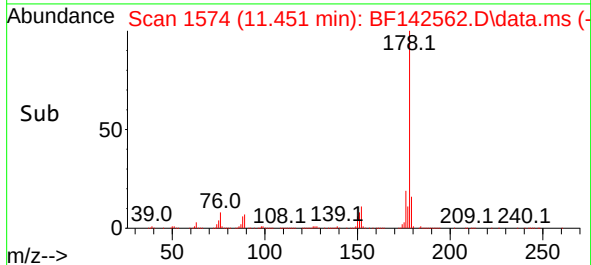
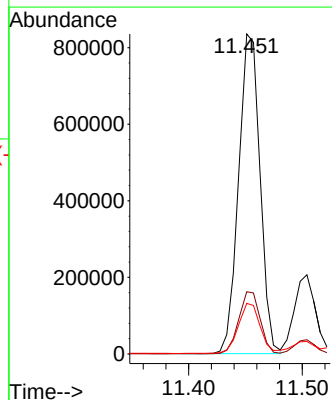
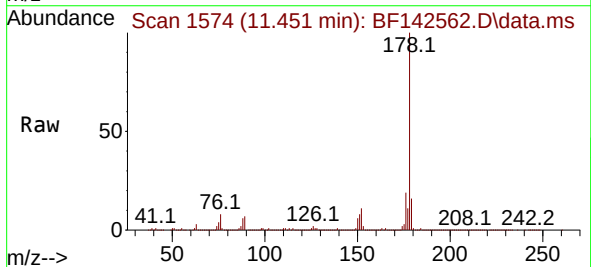
Instrument :
BNA_F
ClientSampleId :
COMP-1

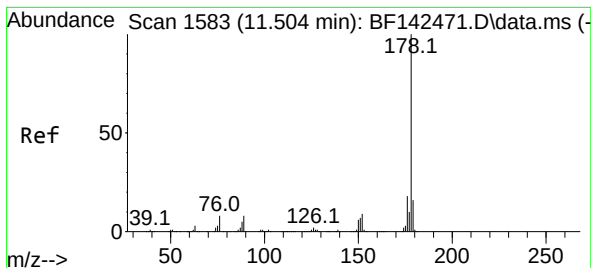
Tgt Ion:188 Resp: 307600
Ion Ratio Lower Upper
188 100
94 9.0 6.6 10.0
80 9.2 7.4 11.0



#71
Phenanthrene
Concen: 66.527 ng
RT: 11.451 min Scan# 1574
Delta R.T. -0.006 min
Lab File: BF142562.D
Acq: 27 May 2025 15:23

Tgt Ion:178 Resp: 1093613
Ion Ratio Lower Upper
178 100
176 19.5 15.4 23.0
179 15.8 12.3 18.5





#72

Anthracene

Concen: 15.595 ng

RT: 11.504 min Scan# 1

Delta R.T. -0.006 min

Lab File: BF142562.D

Acq: 27 May 2025 15:23

Instrument :

BNA_F

ClientSampleId :

COMP-1

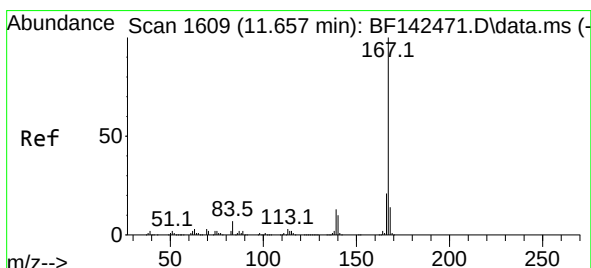
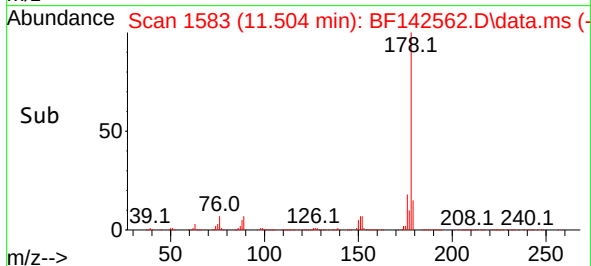
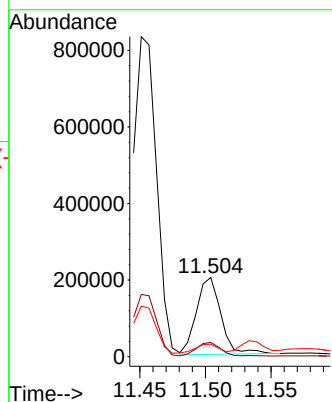
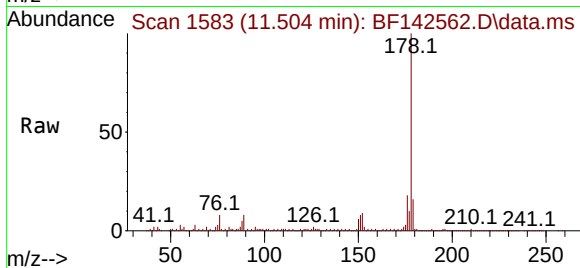
Tgt Ion:178 Resp: 261642

Ion Ratio Lower Upper

178 100

176 18.1 14.6 21.8

179 15.9 12.4 18.6



#73

Carbazole

Concen: 10.791 ng

RT: 11.657 min Scan# 1609

Delta R.T. -0.006 min

Lab File: BF142562.D

Acq: 27 May 2025 15:23

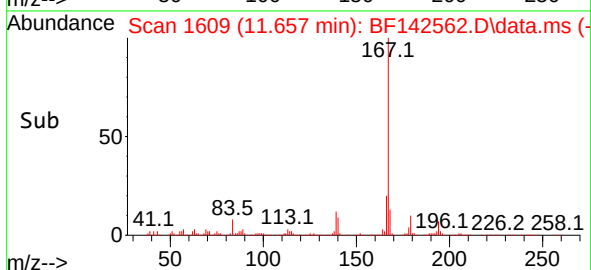
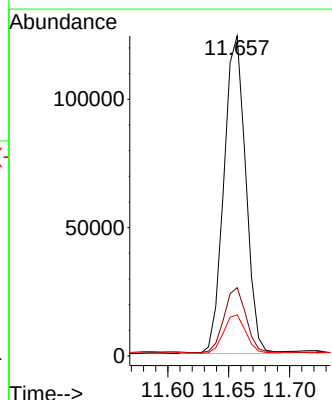
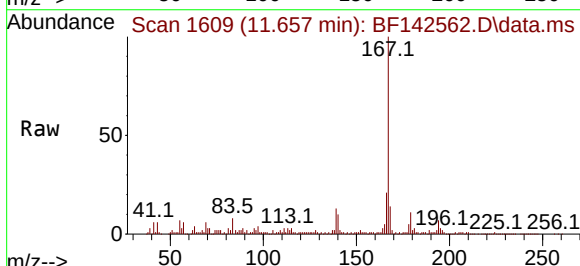
Tgt Ion:167 Resp: 154764

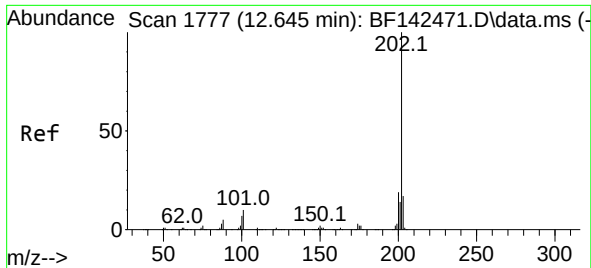
Ion Ratio Lower Upper

167 100

166 21.4 16.9 25.3

139 12.9 10.2 15.4

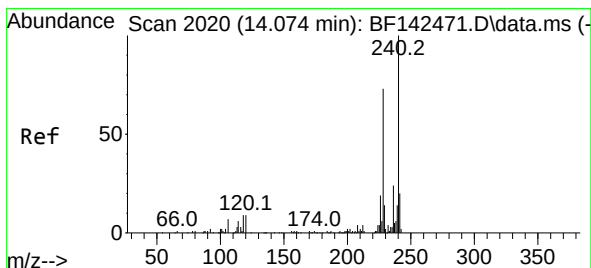
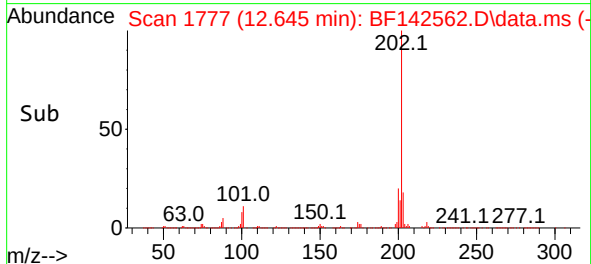
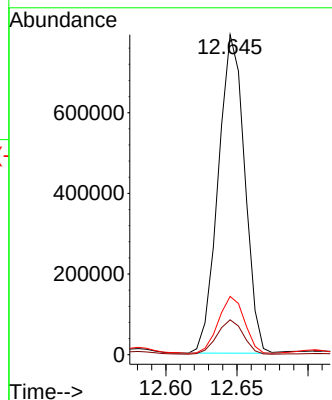
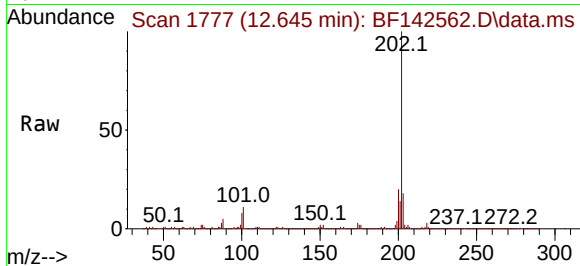




#75
Fluoranthene
Concen: 66.609 ng
RT: 12.645 min Scan# 1777
Delta R.T. 0.000 min
Lab File: BF142562.D
Acq: 27 May 2025 15:23

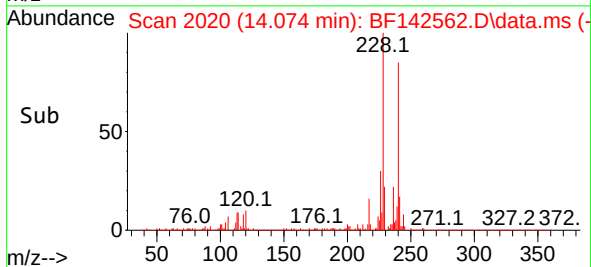
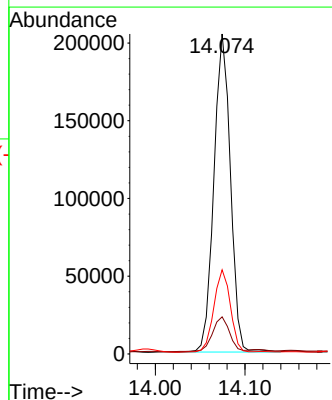
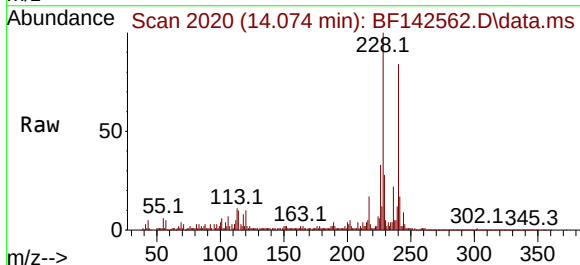
Instrument :
BNA_F
ClientSampleId :
COMP-1

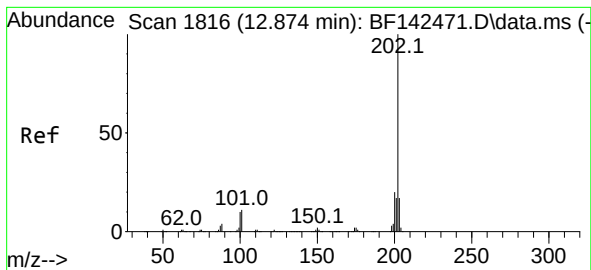
Tgt Ion:202 Resp: 1023136
Ion Ratio Lower Upper
202 100
101 10.9 0.0 29.6
203 18.2 0.0 37.2



#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.074 min Scan# 2020
Delta R.T. 0.000 min
Lab File: BF142562.D
Acq: 27 May 2025 15:23

Tgt Ion:240 Resp: 262217
Ion Ratio Lower Upper
240 100
120 11.6 7.5 11.3#
236 26.3 19.6 29.4





#78

Pyrene

Concen: 45.519 ng

RT: 12.875 min Scan# 1816

Delta R.T. 0.000 min

Lab File: BF142562.D

Acq: 27 May 2025 15:23

Instrument :

BNA_F

ClientSampleId :

COMP-1

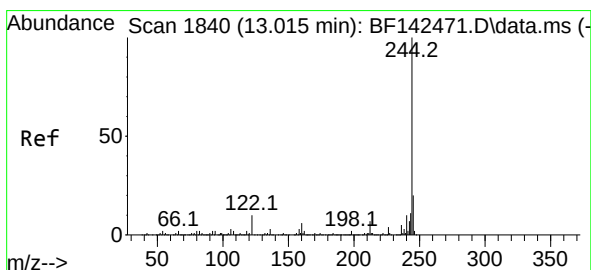
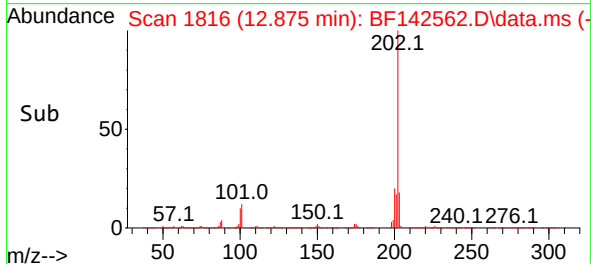
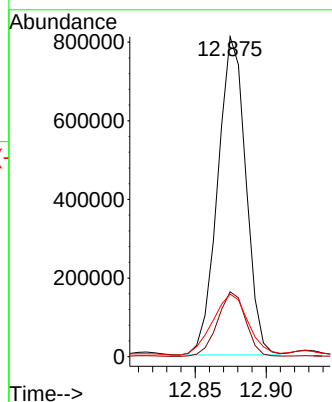
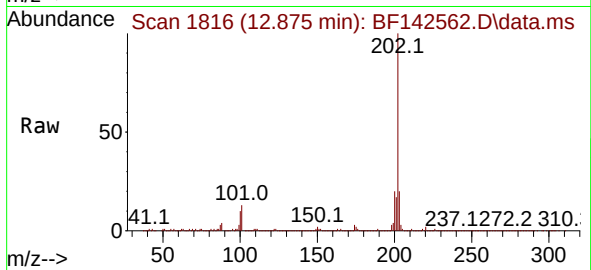
Tgt Ion:202 Resp: 1113447

Ion Ratio Lower Upper

202 100

200 20.3 16.1 24.1

203 19.6 13.9 20.9



#79

Terphenyl-d14

Concen: 51.244 ng

RT: 13.016 min Scan# 1840

Delta R.T. 0.000 min

Lab File: BF142562.D

Acq: 27 May 2025 15:23

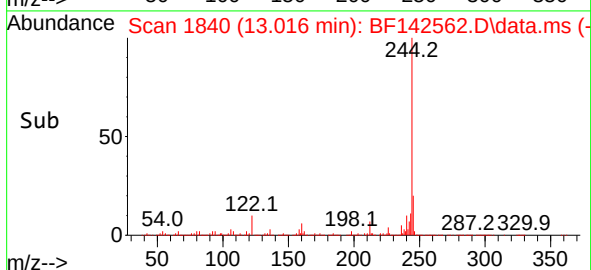
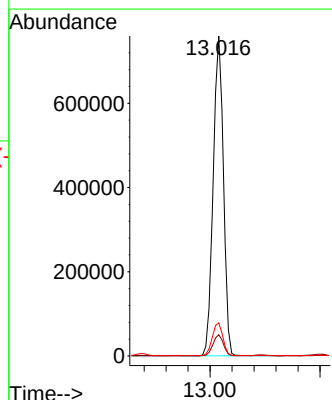
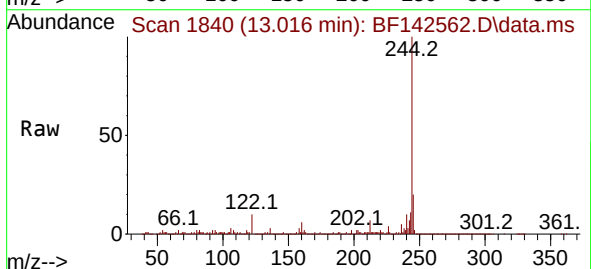
Tgt Ion:244 Resp: 983296

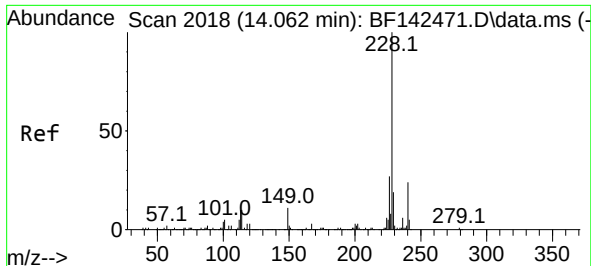
Ion Ratio Lower Upper

244 100

212 6.6 5.3 7.9

122 10.4 8.2 12.2

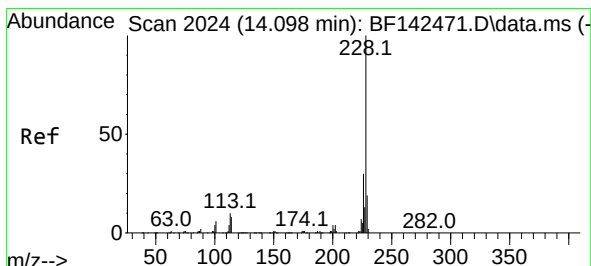
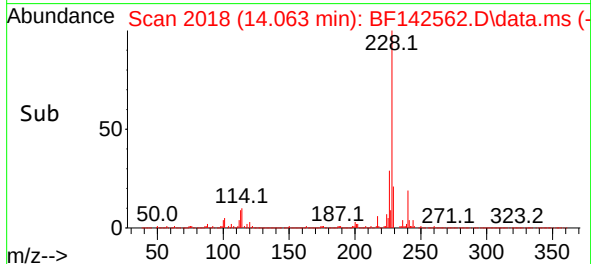
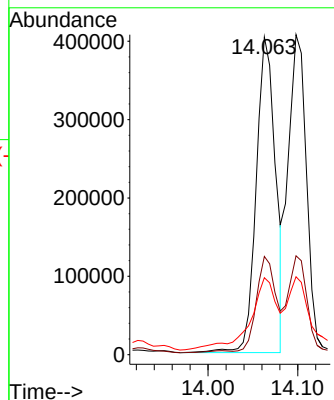
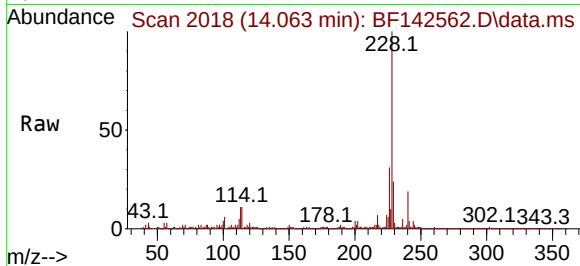




#81
Benzo(a)anthracene
Concen: 34.507 ng
RT: 14.063 min Scan# 2018
Delta R.T. 0.000 min
Lab File: BF142562.D
Acq: 27 May 2025 15:23

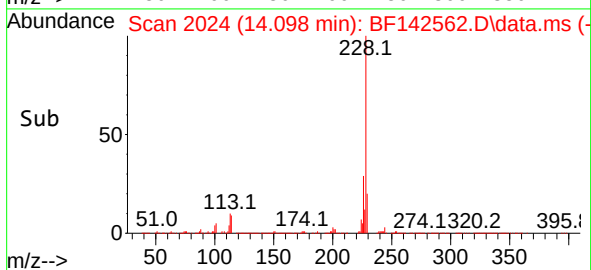
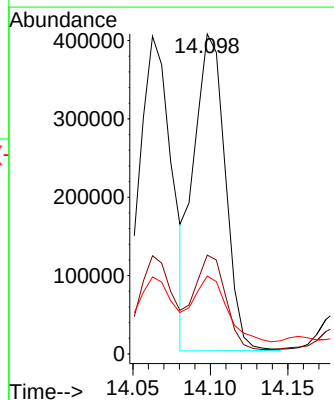
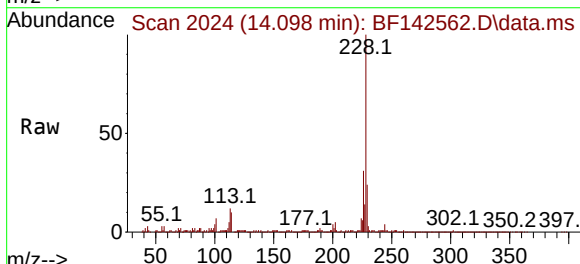
Instrument :
BNA_F
ClientSampleId :
COMP-1

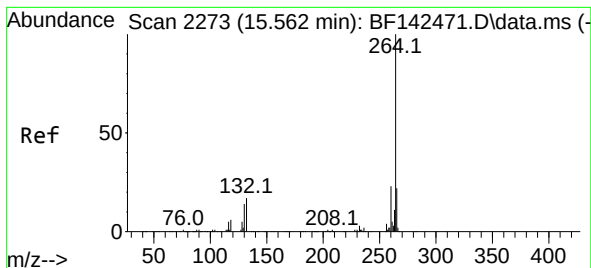
Tgt Ion:228 Resp: 604201
Ion Ratio Lower Upper
228 100
226 30.9 21.2 31.8
229 24.2 15.5 23.3#



#83
Chrysene
Concen: 36.085 ng
RT: 14.098 min Scan# 2024
Delta R.T. -0.006 min
Lab File: BF142562.D
Acq: 27 May 2025 15:23

Tgt Ion:228 Resp: 567738
Ion Ratio Lower Upper
228 100
226 30.9 23.8 35.6
229 24.3 15.4 23.2#





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.574 min Scan# 21

Delta R.T. 0.006 min

Lab File: BF142562.D

Acq: 27 May 2025 15:23

Instrument :

BNA_F

ClientSampleId :

COMP-1

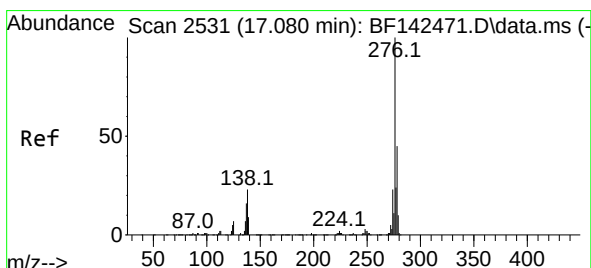
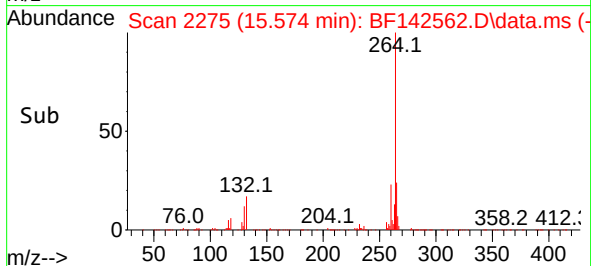
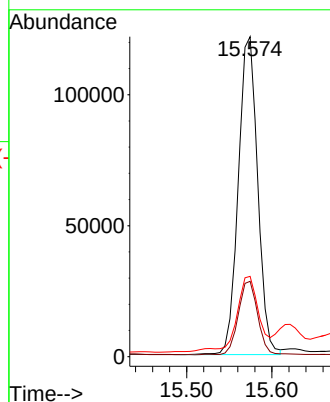
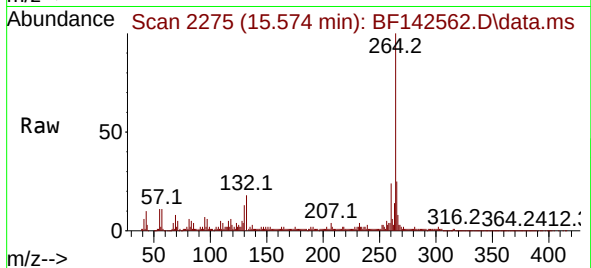
Tgt Ion:264 Resp: 191299

Ion Ratio Lower Upper

264 100

260 23.5 18.6 28.0

265 25.1 17.7 26.5



#87

Indeno(1,2,3-cd)pyrene

Concen: 11.988 ng

RT: 17.080 min Scan# 2531

Delta R.T. -0.012 min

Lab File: BF142562.D

Acq: 27 May 2025 15:23

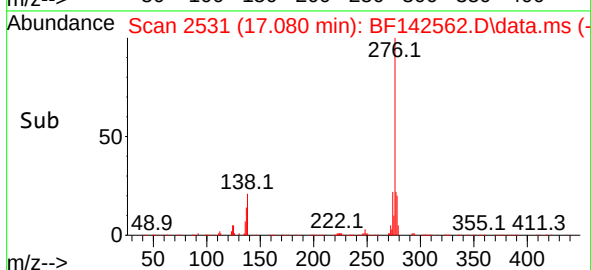
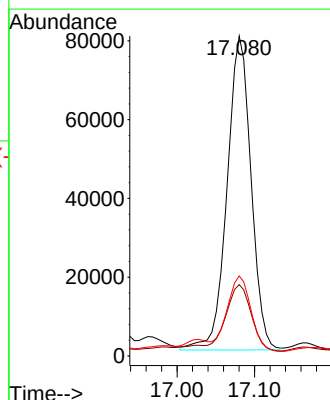
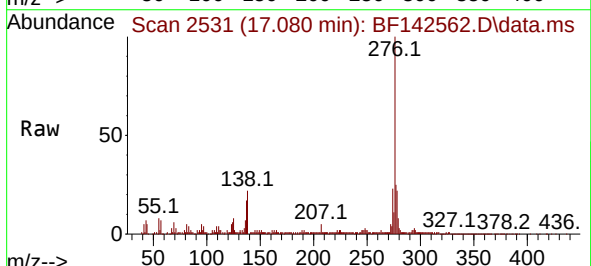
Tgt Ion:276 Resp: 172169

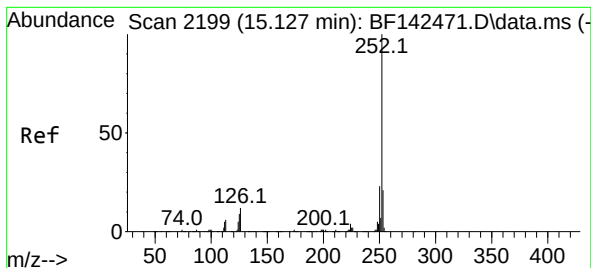
Ion Ratio Lower Upper

276 100

138 23.8 19.9 29.9

277 24.0 20.2 30.2





#88

Benzo(b)fluoranthene

Concen: 44.400 ng m

RT: 15.133 min Scan# 2199

Delta R.T. 0.006 min

Lab File: BF142562.D

Acq: 27 May 2025 15:23

Instrument :

BNA_F

ClientSampleId :

COMP-1

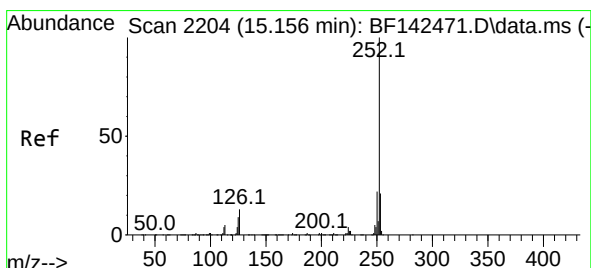
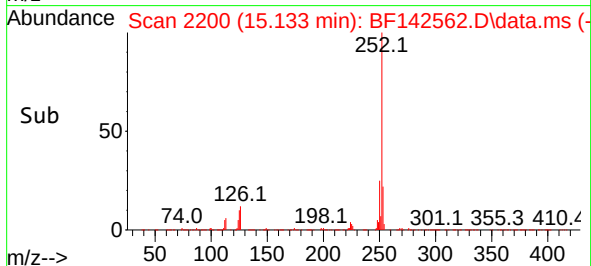
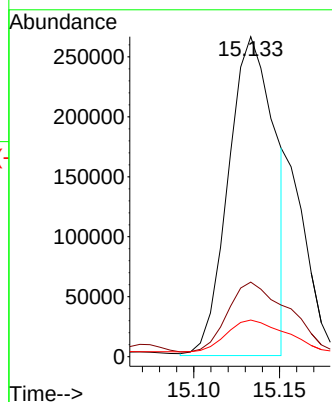
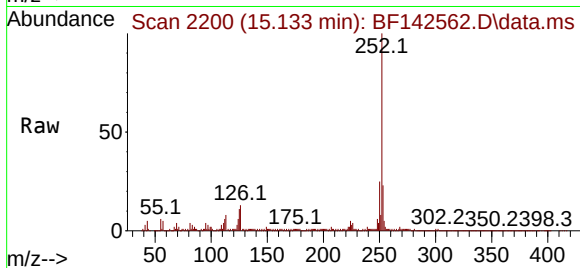
Tgt Ion:252 Resp: 502699

Ion Ratio Lower Upper

252 100

253 23.3 17.0 25.4

125 11.5 7.4 11.0#



#89

Benzo(k)fluoranthene

Concen: 13.373 ng m

RT: 15.151 min Scan# 2203

Delta R.T. -0.012 min

Lab File: BF142562.D

Acq: 27 May 2025 15:23

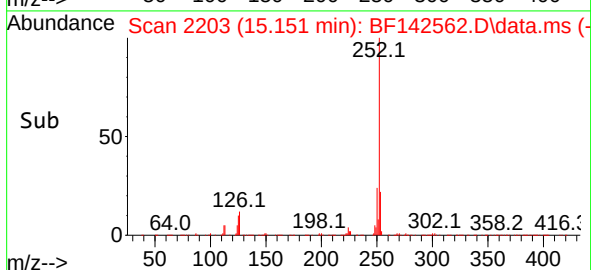
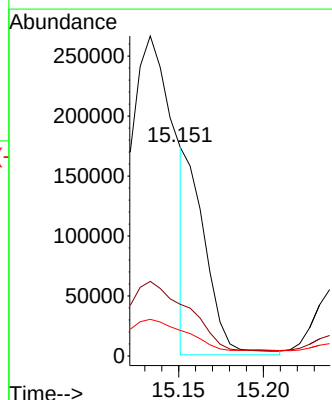
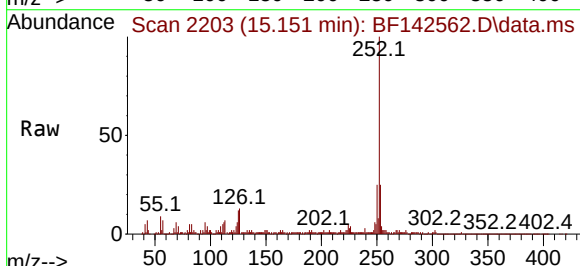
Tgt Ion:252 Resp: 141814

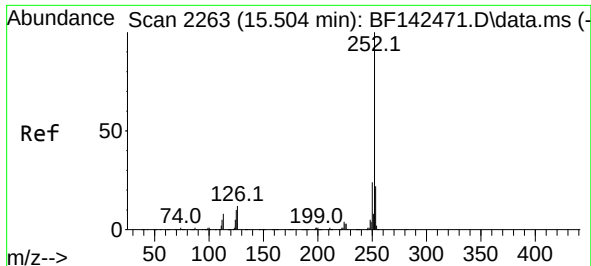
Ion Ratio Lower Upper

252 100

253 24.8 17.0 25.4

125 12.3 7.3 10.9#

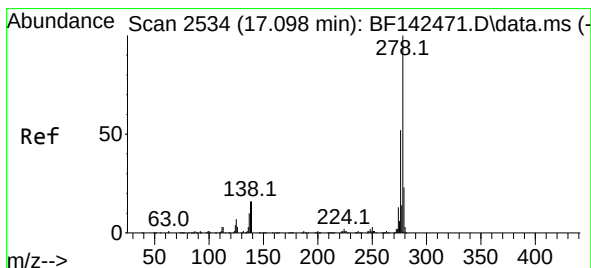
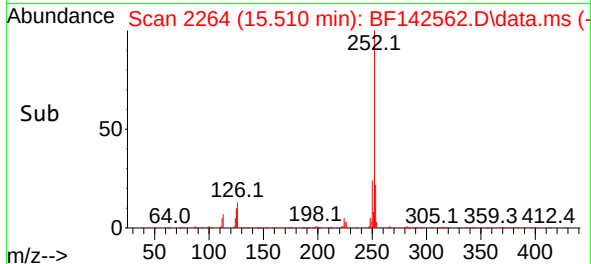
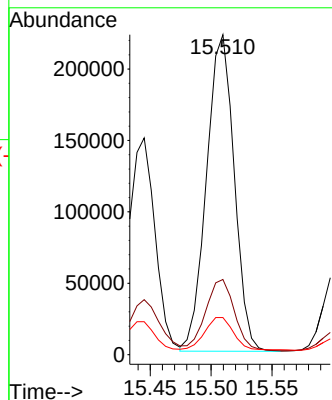
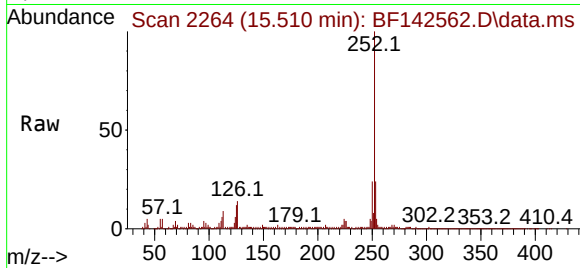




#90
Benzo(a)pyrene
Concen: 32.873 ng
RT: 15.510 min Scan# 21
Delta R.T. 0.000 min
Lab File: BF142562.D
Acq: 27 May 2025 15:23

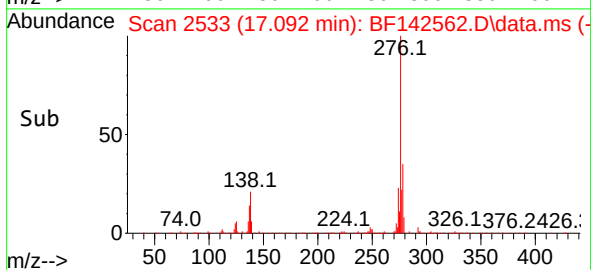
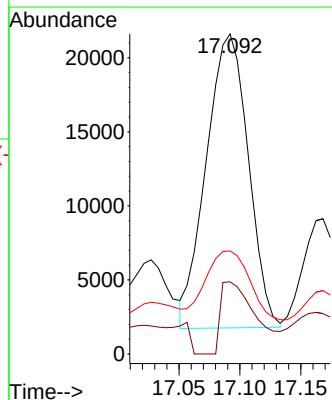
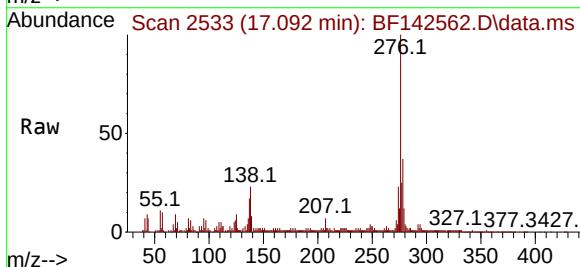
Instrument :
BNA_F
ClientSampleId :
COMP-1

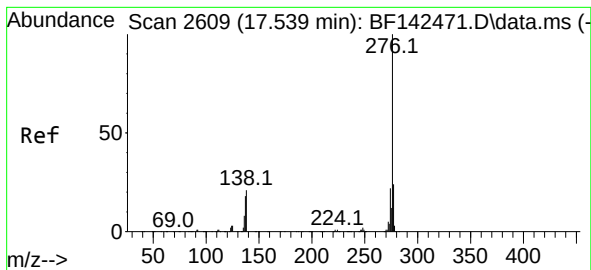
Tgt Ion:252 Resp: 350827
Ion Ratio Lower Upper
252 100
253 23.5 17.4 26.0
125 11.6 7.9 11.9



#91
Dibenzo(a,h)anthracene
Concen: 4.090 ng
RT: 17.092 min Scan# 2533
Delta R.T. -0.023 min
Lab File: BF142562.D
Acq: 27 May 2025 15:23

Tgt Ion:278 Resp: 47636
Ion Ratio Lower Upper
278 100
139 22.5 12.8 19.2#
279 32.2 18.6 28.0#





#92

Benzo(g,h,i)perylene

Concen: 15.173 ng

RT: 17.539 min Scan# 20

Delta R.T. -0.017 min

Lab File: BF142562.D

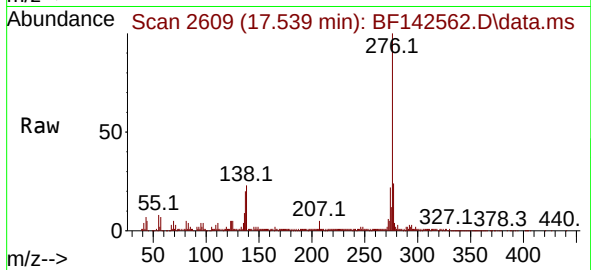
Acq: 27 May 2025 15:23

Instrument :

BNA_F

ClientSampleId :

COMP-1



Tgt Ion:276 Resp: 176766

Ion Ratio Lower Upper

276 100

277 24.3 19.2 28.8

138 23.1 16.8 25.2

