

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF120325\
 Data File : BF144417.D
 Acq On : 03 Dec 2025 14:08
 Operator : RC/JU
 Sample : Q3741-03
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 B50-SP14-112025

Quant Time: Dec 03 14:29:05 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110525.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 05 18:37:33 2025
 Response via : Initial Calibration

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

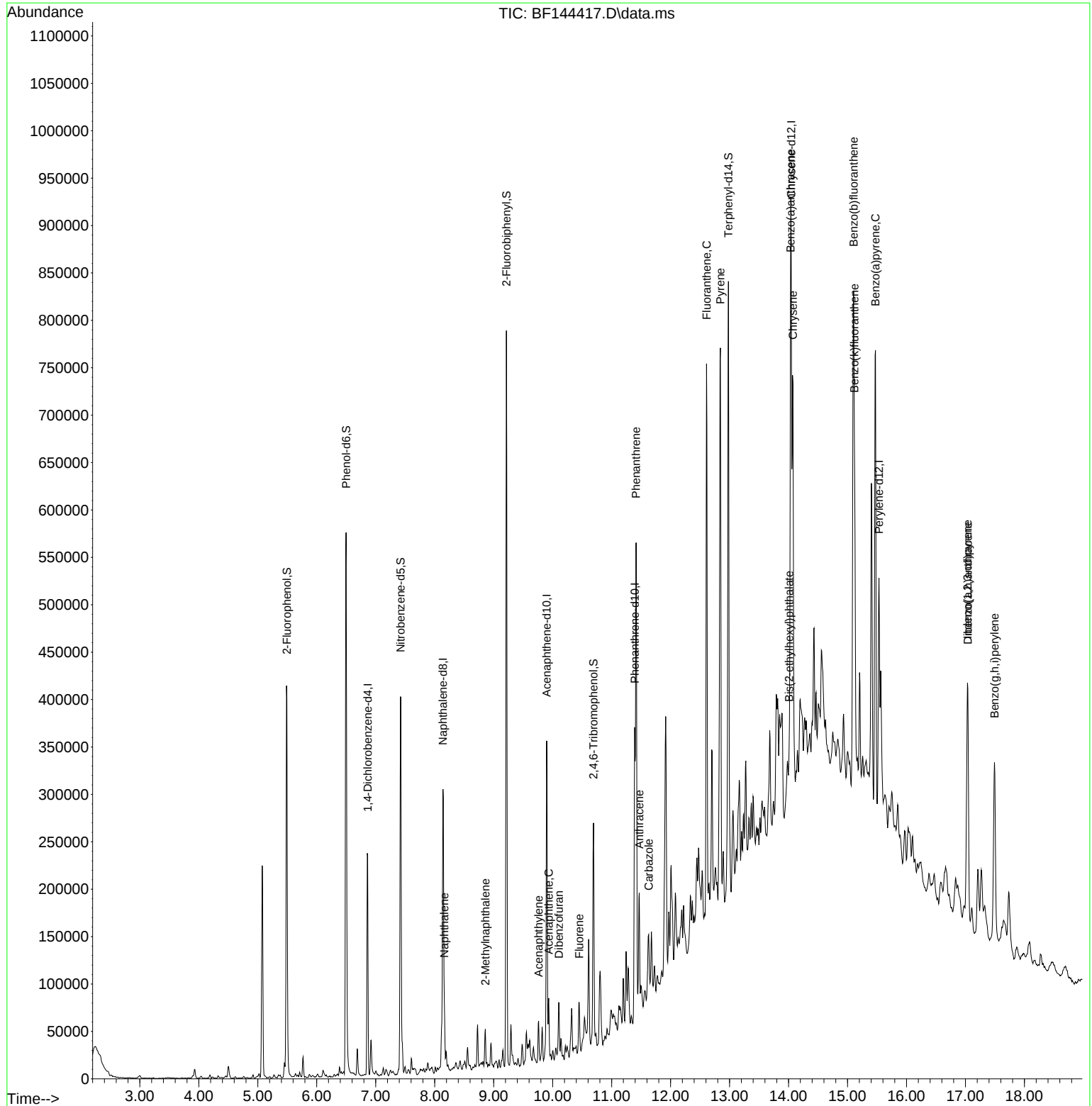
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.863	152	52469	20.000	ng	-0.01
21) Naphthalene-d8	8.140	136	193698	20.000	ng	-0.02
39) Acenaphthene-d10	9.898	164	103555	20.000	ng	-0.02
64) Phenanthrene-d10	11.392	188	160944	20.000	ng	-0.01
76) Chrysene-d12	14.045	240	122787	20.000	ng	0.00
86) Perylene-d12	15.533	264	158132	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.493	112	175856	52.449	ng	0.00
7) Phenol-d6	6.498	99	268572	70.693	ng	0.00
23) Nitrobenzene-d5	7.422	82	163415	48.726	ng	-0.01
42) 2,4,6-Tribromophenol	10.692	330	41445	31.893	ng	-0.01
45) 2-Fluorobiphenyl	9.216	172	360512	51.417	ng	-0.01
79) Terphenyl-d14	12.980	244	342879	44.356	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	8.163	128	35972	3.904	ng	100
37) 2-Methylnaphthalene	8.857	142	15494	2.515	ng	100
49) Acenaphthylene	9.763	152	22786	2.712	ng	96
52) Acenaphthene	9.934	154	17820	3.171	ng	92
55) Dibenzofuran	10.104	168	24558	3.121	ng	# 96
58) Fluorene	10.451	166	18079	3.022	ng	# 96
71) Phenanthrene	11.416	178	271887	33.930	ng	99
72) Anthracene	11.469	178	78986	9.694	ng	99
73) Carbazole	11.628	167	30373	4.384	ng	99
75) Fluoranthene	12.610	202	348383	42.087	ng	99
78) Pyrene	12.845	202	365877	36.957	ng	98
81) Benzo(a)anthracene	14.033	228	292970	34.426	ng	94
83) Chrysene	14.074	228	269665	34.326	ng	95
84) Bis(2-ethylhexyl)phtha...	14.010	149	13762	2.930	ng	# 95
87) Indeno(1,2,3-cd)pyrene	17.033	276	199577	17.582	ng	100
88) Benzo(b)fluoranthene	15.104	252	407914m	45.374	ng	
89) Benzo(k)fluoranthene	15.116	252	137441m	16.333	ng	
90) Benzo(a)pyrene	15.474	252	342940	41.349	ng	95
91) Dibenzo(a,h)anthracene	17.039	278	58121	6.375	ng	# 85
92) Benzo(g,h,i)perylene	17.492	276	186335	20.698	ng	100

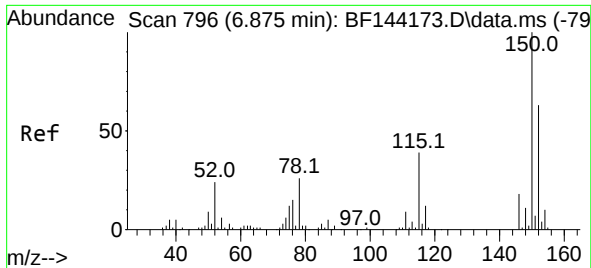
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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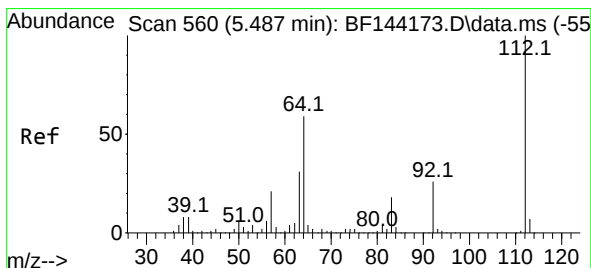
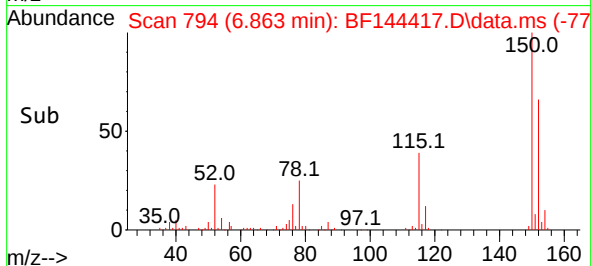
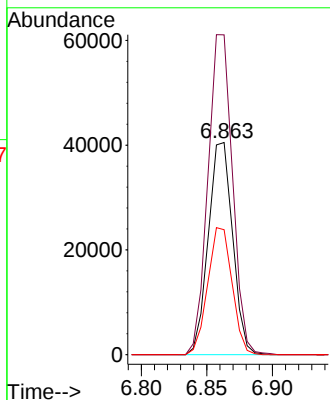
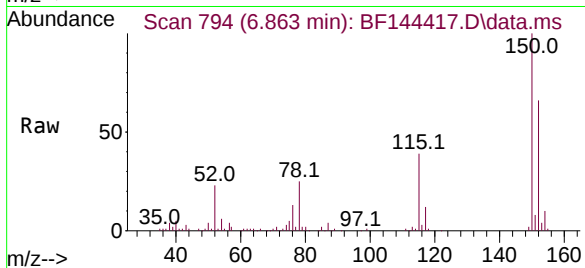




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.863 min Scan# 796
Delta R.T. -0.012 min
Lab File: BF144417.D
Acq: 03 Dec 2025 14:08

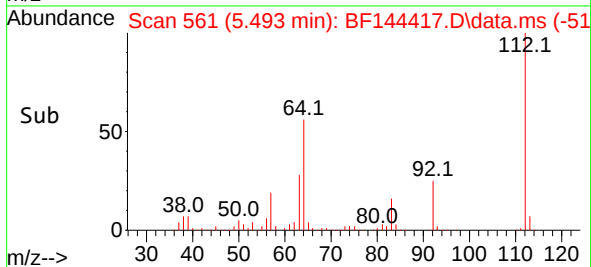
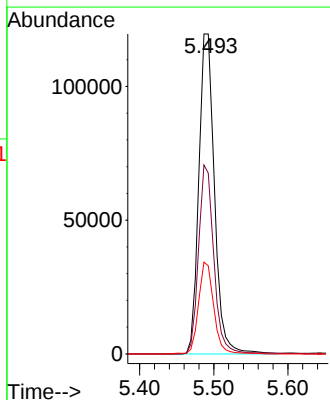
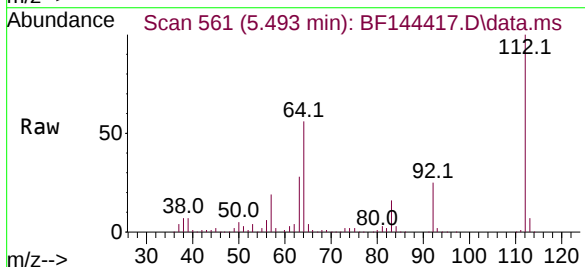
Instrument :
BNA_F
ClientSampleId :
B50-SP14-112025

Tgt Ion:152 Resp: 52469
Ion Ratio Lower Upper
152 100
150 150.8 127.4 191.0
115 58.9 49.5 74.3



#5
2-Fluorophenol
Concen: 52.449 ng
RT: 5.493 min Scan# 561
Delta R.T. -0.000 min
Lab File: BF144417.D
Acq: 03 Dec 2025 14:08

Tgt Ion:112 Resp: 175856
Ion Ratio Lower Upper
112 100
64 56.5 47.2 70.8
63 27.5 24.4 36.6

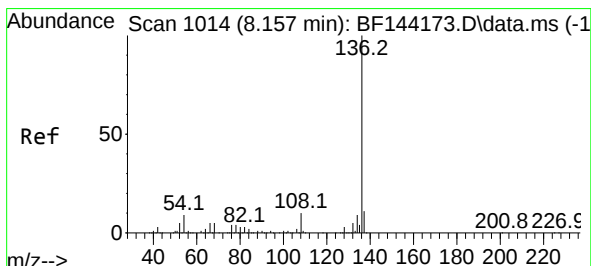
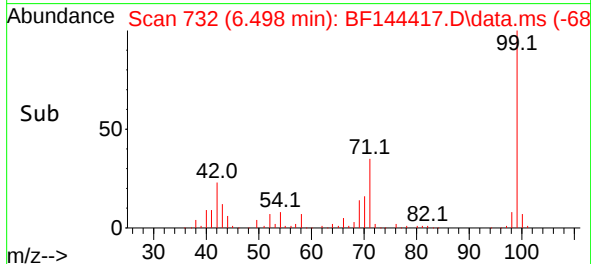
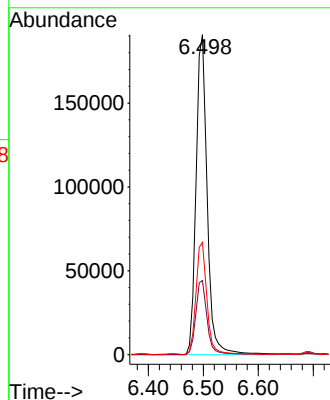
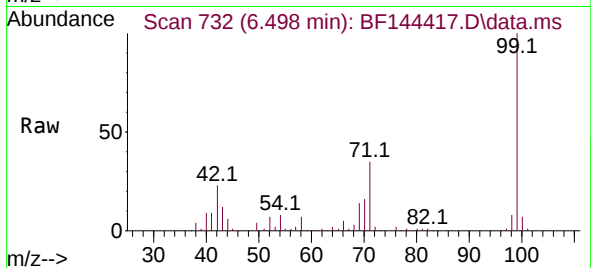




#7
Phenol-d6
Concen: 70.693 ng
RT: 6.498 min Scan# 71
Delta R.T. -0.000 min
Lab File: BF144417.D
Acq: 03 Dec 2025 14:08

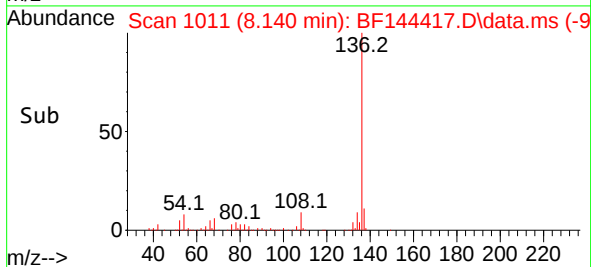
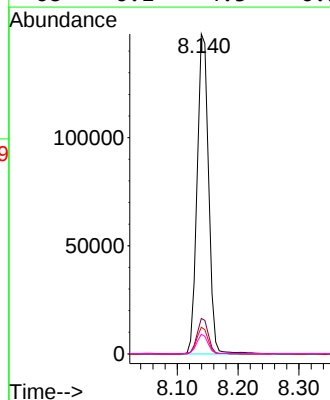
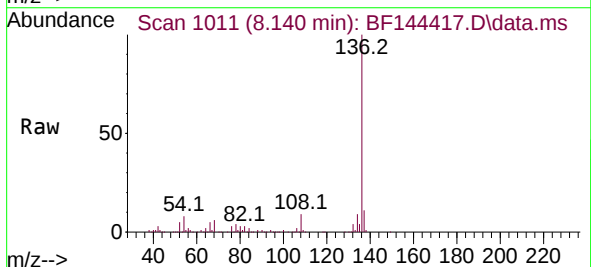
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ClientSampleId :
B50-SP14-112025

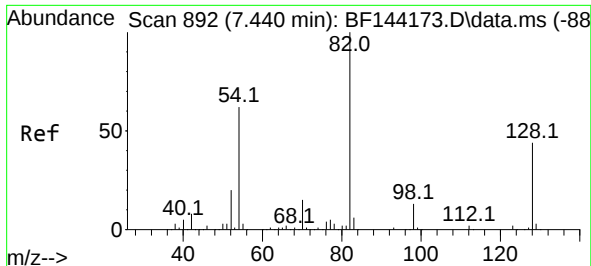
Tgt Ion: 99 Resp: 268572
Ion Ratio Lower Upper
99 100
42 23.2 20.9 31.3
71 35.1 31.4 47.2



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.140 min Scan# 1011
Delta R.T. -0.018 min
Lab File: BF144417.D
Acq: 03 Dec 2025 14:08

Tgt Ion: 136 Resp: 193698
Ion Ratio Lower Upper
136 100
137 11.1 8.6 13.0
54 8.3 7.0 10.6
68 6.1 4.3 6.5

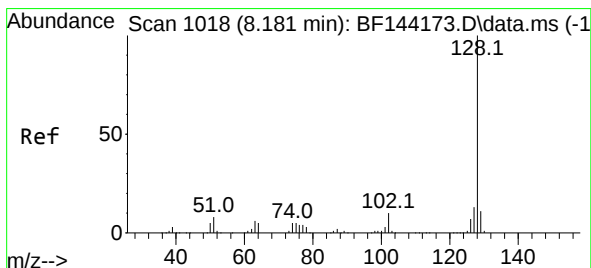
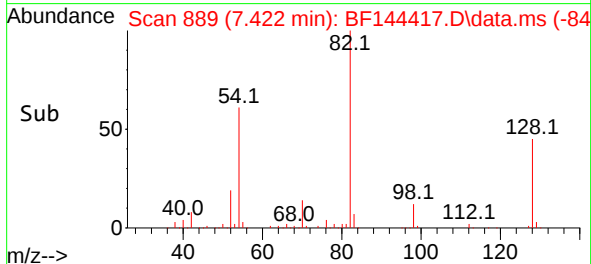
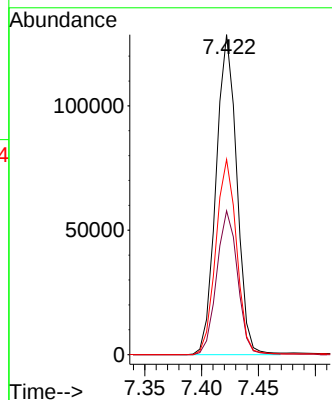
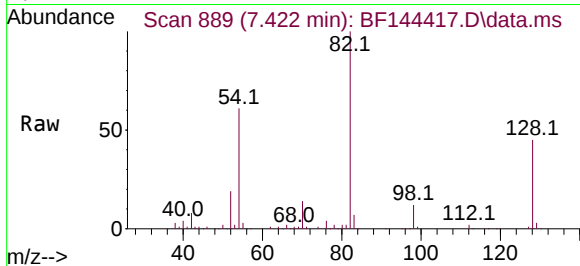




#23
Nitrobenzene-d5
Concen: 48.726 ng
RT: 7.422 min Scan# 89
Delta R.T. -0.012 min
Lab File: BF144417.D
Acq: 03 Dec 2025 14:08

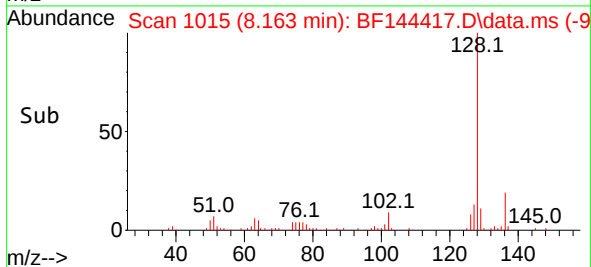
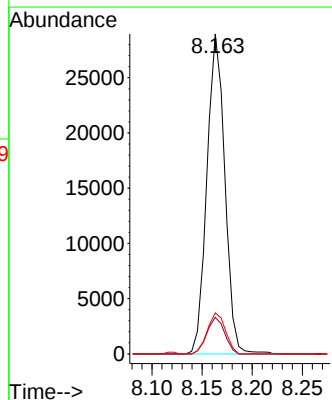
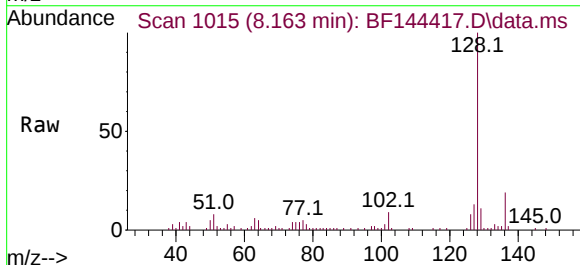
Instrument :
BNA_F
ClientSampleId :
B50-SP14-112025

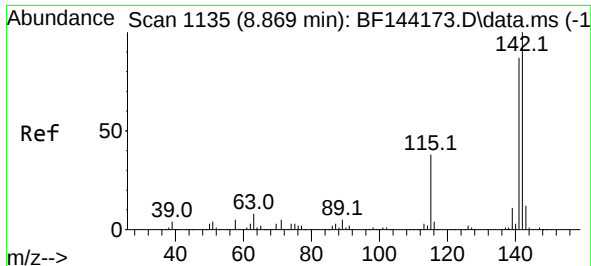
Tgt Ion: 82 Resp: 163415
Ion Ratio Lower Upper
82 100
128 45.0 34.7 52.1
54 61.0 49.5 74.3



#31
Naphthalene
Concen: 3.904 ng
RT: 8.163 min Scan# 1015
Delta R.T. -0.012 min
Lab File: BF144417.D
Acq: 03 Dec 2025 14:08

Tgt Ion:128 Resp: 35972
Ion Ratio Lower Upper
128 100
129 11.4 8.9 13.3
127 12.8 10.3 15.5

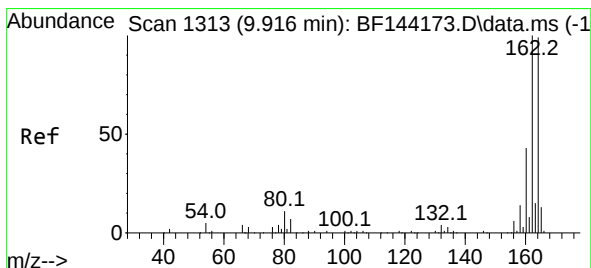
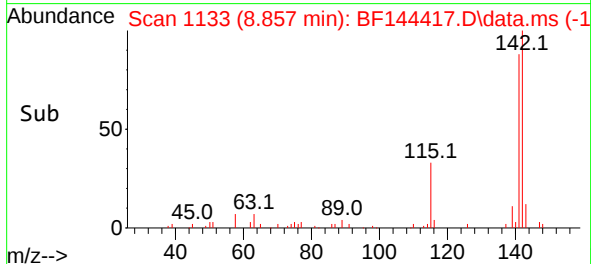
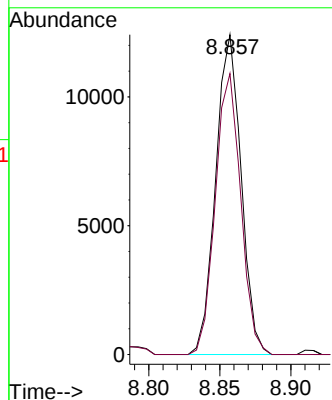
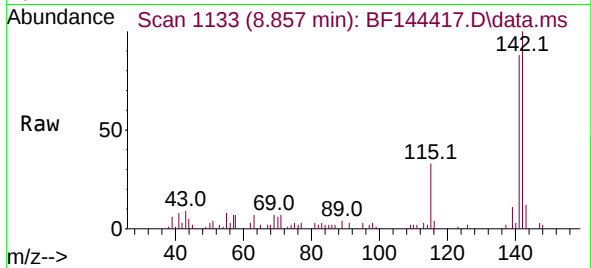




#37
2-Methylnaphthalene
Concen: 2.515 ng
RT: 8.857 min Scan# 1135
Delta R.T. -0.012 min
Lab File: BF144417.D
Acq: 03 Dec 2025 14:08

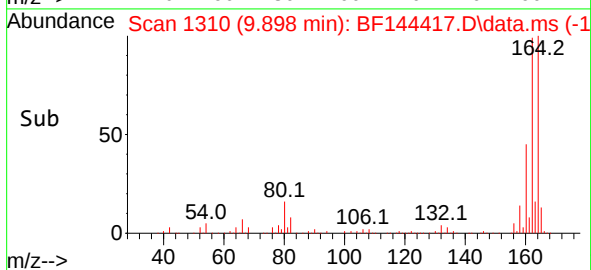
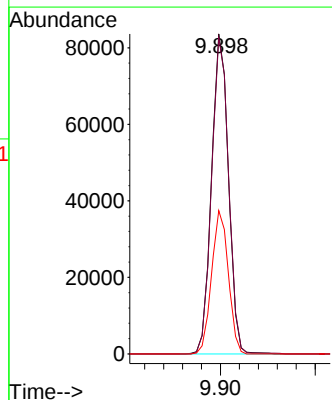
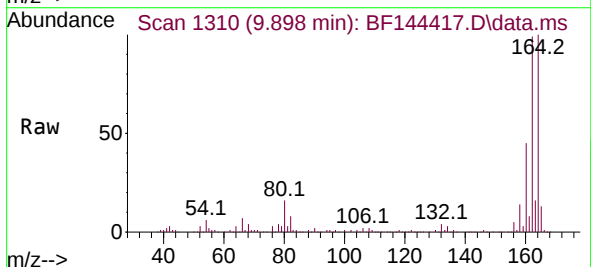
Instrument :
BNA_F
ClientSampleId :
B50-SP14-112025

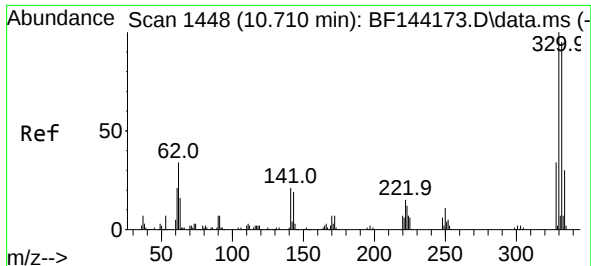
Tgt Ion:142 Resp: 15494
Ion Ratio Lower Upper
142 100
141 87.8 69.9 104.9



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.898 min Scan# 1310
Delta R.T. -0.018 min
Lab File: BF144417.D
Acq: 03 Dec 2025 14:08

Tgt Ion:164 Resp: 103555
Ion Ratio Lower Upper
164 100
162 98.9 81.1 121.7
160 44.8 34.5 51.7

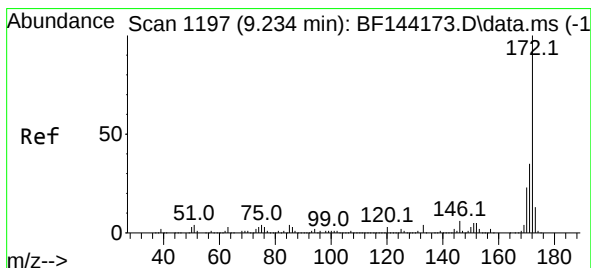
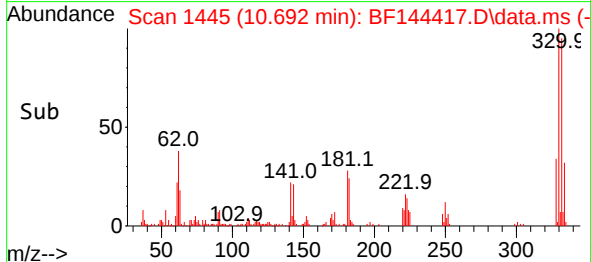
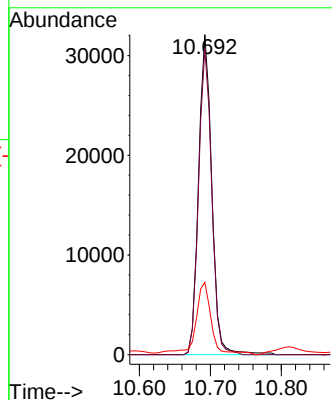
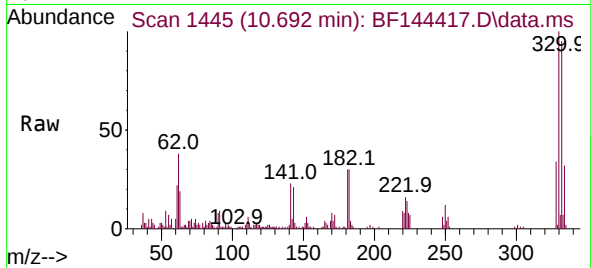




#42
 2,4,6-Tribromophenol
 Concen: 31.893 ng
 RT: 10.692 min Scan# 1445
 Delta R.T. -0.012 min
 Lab File: BF144417.D
 Acq: 03 Dec 2025 14:08

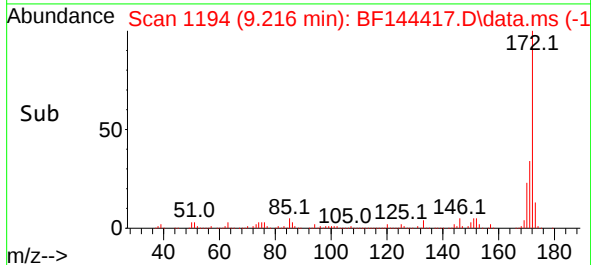
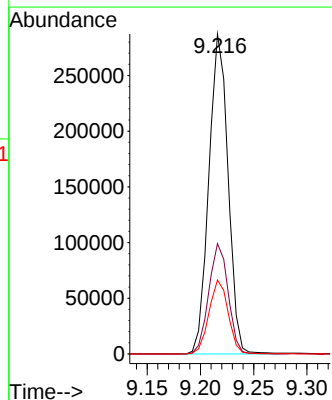
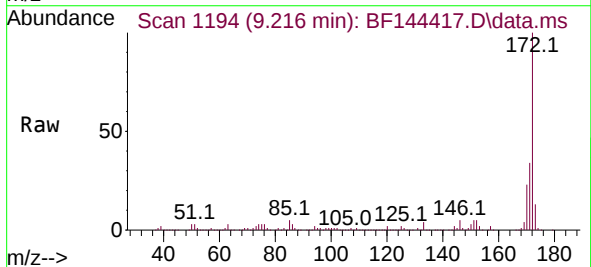
Instrument :
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 ClientSampleId :
 B50-SP14-112025

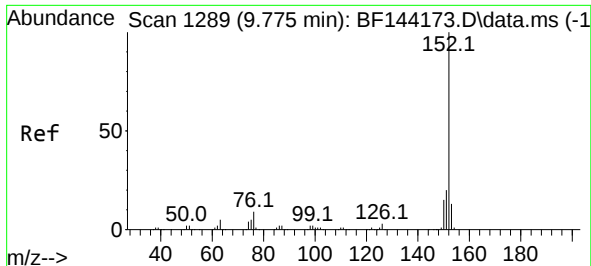
Tgt Ion: 330 Resp: 41445
 Ion Ratio Lower Upper
 330 100
 332 94.2 76.7 115.1
 141 27.0 17.8 26.8#



#45
 2-Fluorobiphenyl
 Concen: 51.417 ng
 RT: 9.216 min Scan# 1194
 Delta R.T. -0.012 min
 Lab File: BF144417.D
 Acq: 03 Dec 2025 14:08

Tgt Ion: 172 Resp: 360512
 Ion Ratio Lower Upper
 172 100
 171 34.5 28.1 42.1
 170 23.1 18.6 28.0





#49

Acenaphthylene

Concen: 2.712 ng

RT: 9.763 min Scan# 11

Delta R.T. -0.012 min

Lab File: BF144417.D

Acq: 03 Dec 2025 14:08

Instrument :

BNA_F

ClientSampleId :

B50-SP14-112025

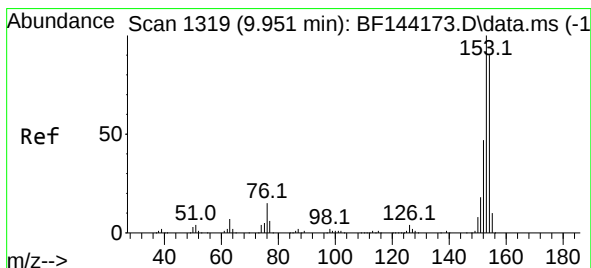
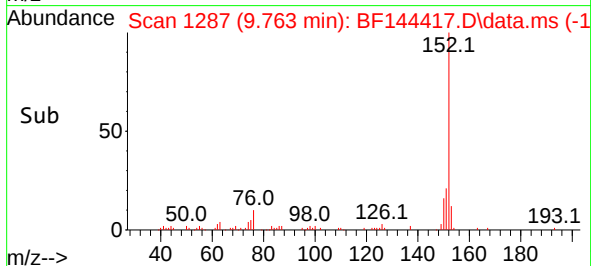
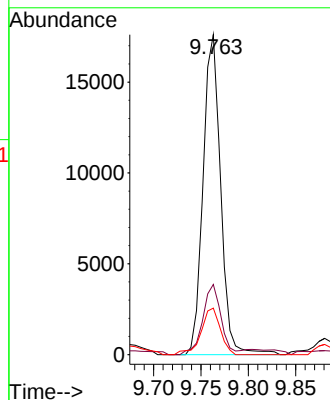
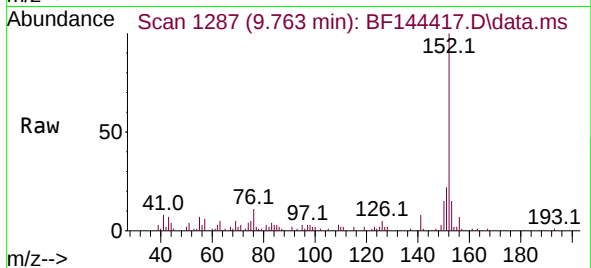
Tgt Ion:152 Resp: 22786

Ion Ratio Lower Upper

152 100

151 21.9 15.9 23.9

153 14.5 10.5 15.7



#52

Acenaphthene

Concen: 3.171 ng

RT: 9.934 min Scan# 1316

Delta R.T. -0.012 min

Lab File: BF144417.D

Acq: 03 Dec 2025 14:08

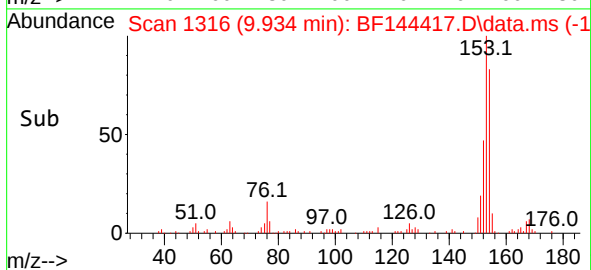
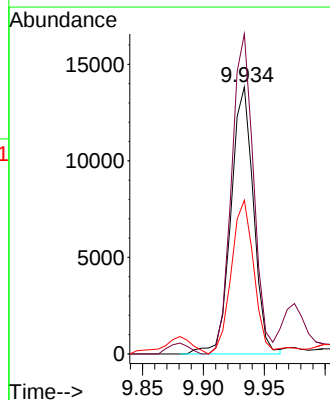
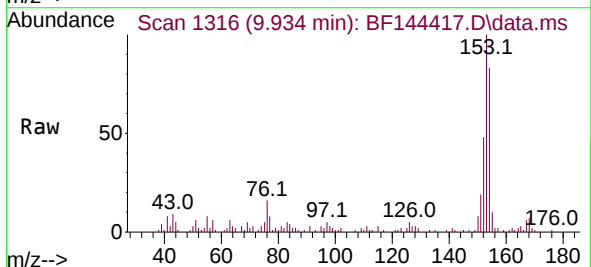
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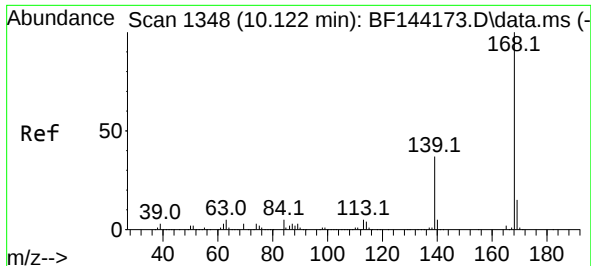
Ion Ratio Lower Upper

154 100

153 119.9 89.0 133.4

152 57.5 42.2 63.4





#55

Dibenzenofuran

Concen: 3.121 ng

RT: 10.104 min Scan# 1348

Delta R.T. -0.012 min

Lab File: BF144417.D

Acq: 03 Dec 2025 14:08

Instrument :

BNA_F

ClientSampleId :

B50-SP14-112025

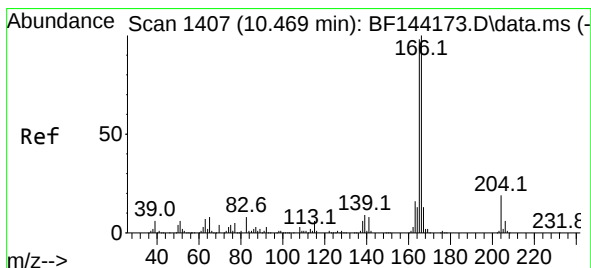
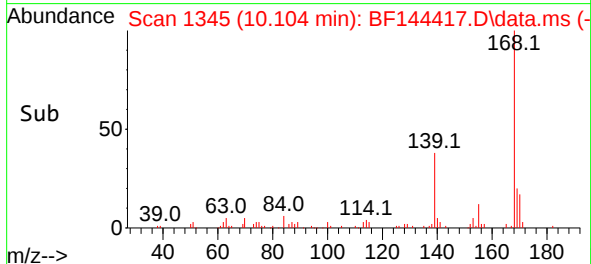
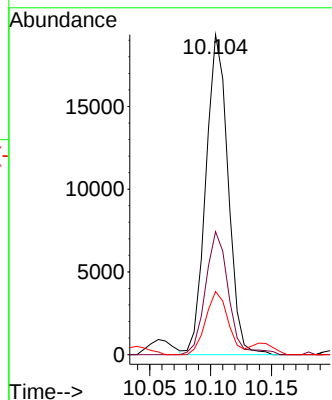
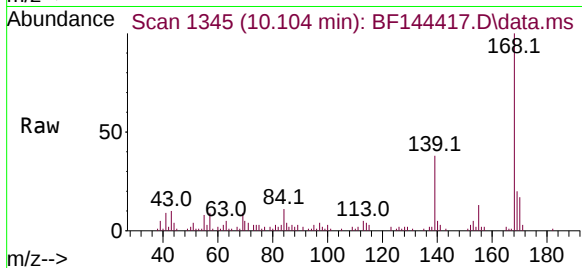
Tgt Ion:168 Resp: 24558

Ion Ratio Lower Upper

168 100

139 38.4 30.2 45.2

169 19.7 12.2 18.4#



#58

Fluorene

Concen: 3.022 ng

RT: 10.451 min Scan# 1404

Delta R.T. -0.012 min

Lab File: BF144417.D

Acq: 03 Dec 2025 14:08

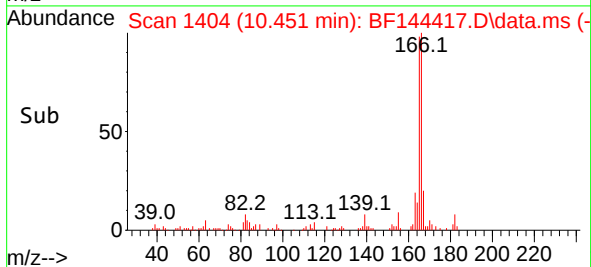
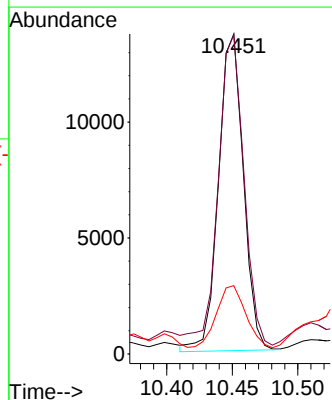
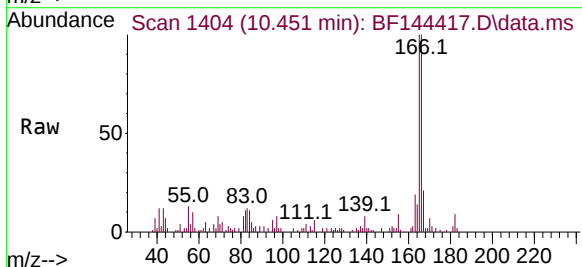
Tgt Ion:166 Resp: 18079

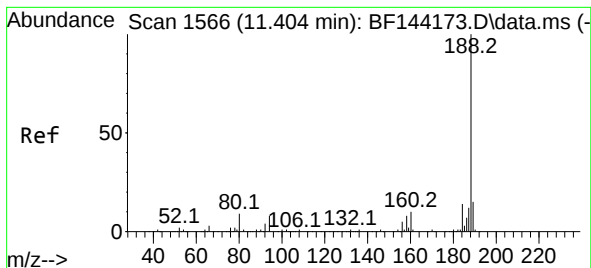
Ion Ratio Lower Upper

166 100

165 99.7 78.6 118.0

167 21.3 10.4 15.6#





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.392 min Scan# 11

Delta R.T. -0.012 min

Lab File: BF144417.D

Acq: 03 Dec 2025 14:08

Instrument :

BNA_F

ClientSampleId :

B50-SP14-112025

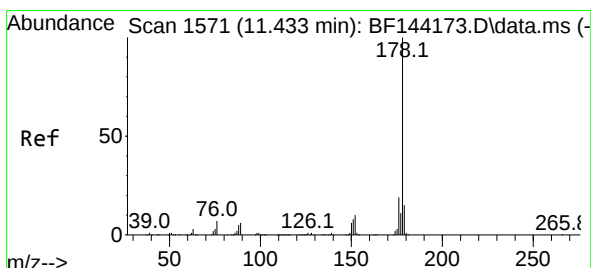
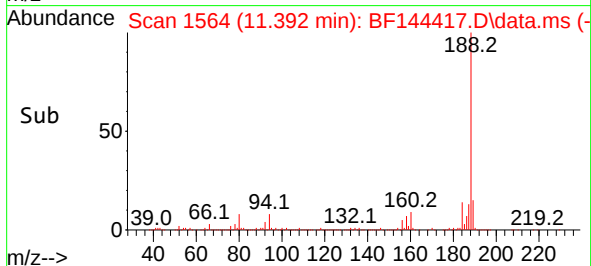
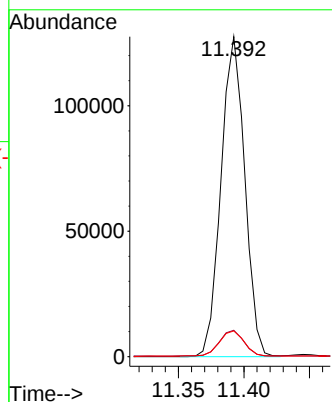
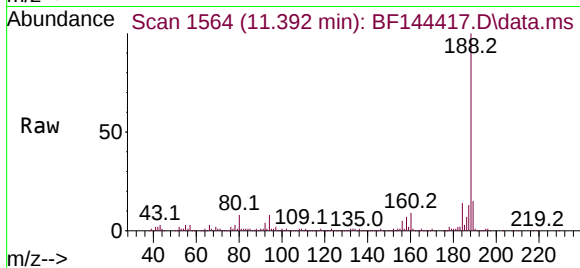
Tgt Ion:188 Resp: 160944

Ion Ratio Lower Upper

188 100

94 8.3 6.2 9.2

80 8.0 6.9 10.3



#71

Phenanthrene

Concen: 33.930 ng

RT: 11.416 min Scan# 1568

Delta R.T. -0.012 min

Lab File: BF144417.D

Acq: 03 Dec 2025 14:08

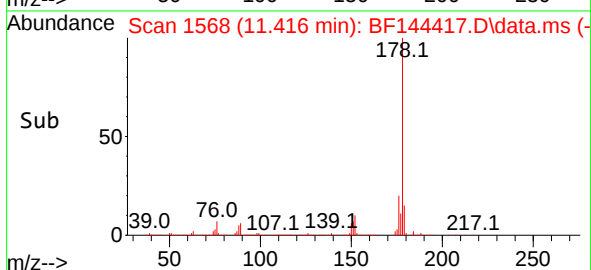
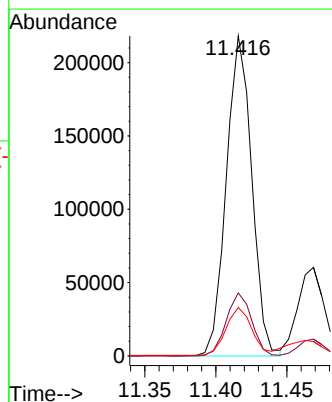
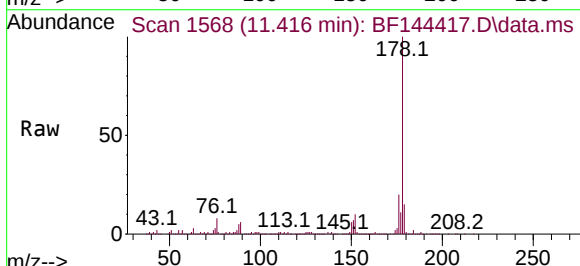
Tgt Ion:178 Resp: 271887

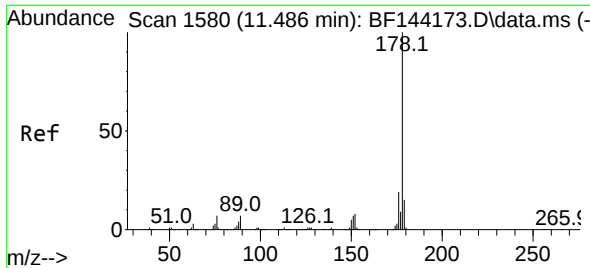
Ion Ratio Lower Upper

178 100

176 19.7 15.5 23.3

179 15.1 12.2 18.4

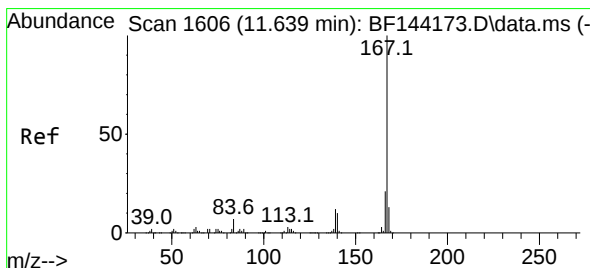
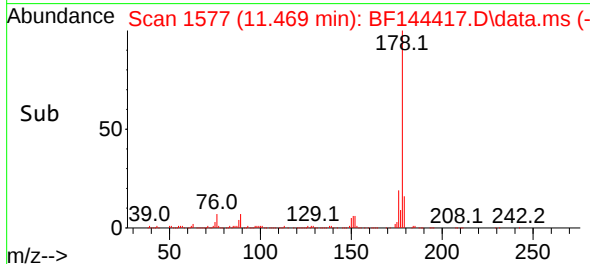
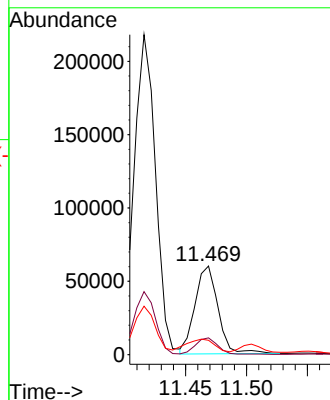
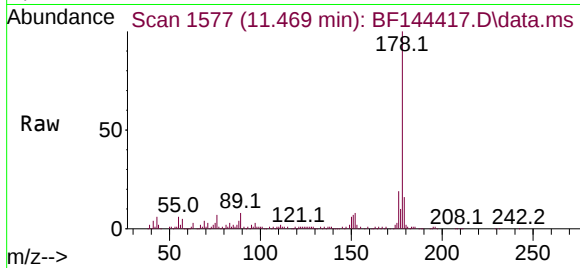




#72
 Anthracene
 Concen: 9.694 ng
 RT: 11.469 min Scan# 11
 Delta R.T. -0.012 min
 Lab File: BF144417.D
 Acq: 03 Dec 2025 14:08

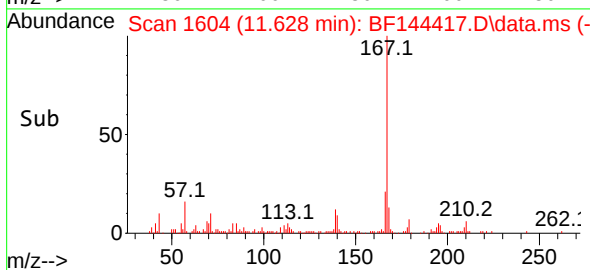
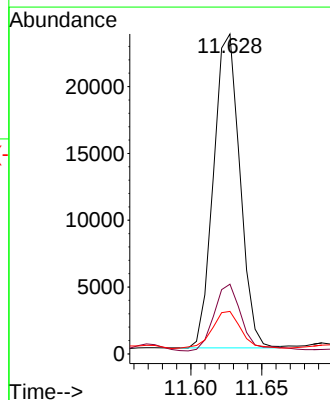
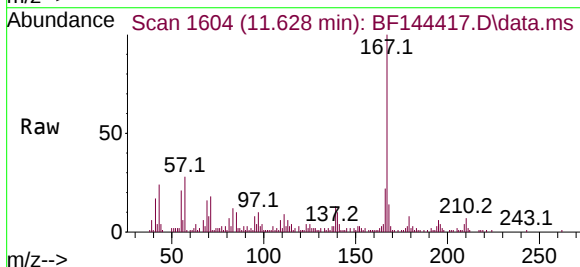
Instrument :
 BNA_F
 ClientSampleId :
 B50-SP14-112025

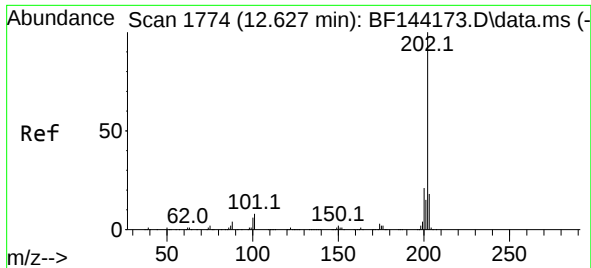
Tgt Ion:178 Resp: 78986
 Ion Ratio Lower Upper
 178 100
 176 18.9 15.3 22.9
 179 16.1 12.0 18.0



#73
 Carbazole
 Concen: 4.384 ng
 RT: 11.628 min Scan# 1604
 Delta R.T. -0.012 min
 Lab File: BF144417.D
 Acq: 03 Dec 2025 14:08

Tgt Ion:167 Resp: 30373
 Ion Ratio Lower Upper
 167 100
 166 21.8 17.2 25.8
 139 13.3 9.9 14.9

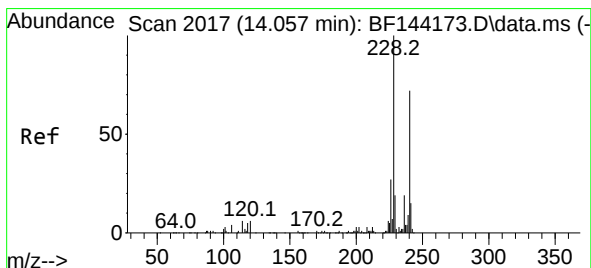
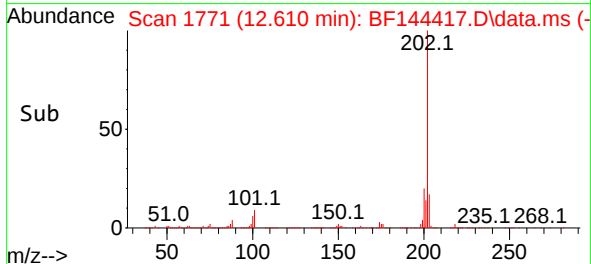
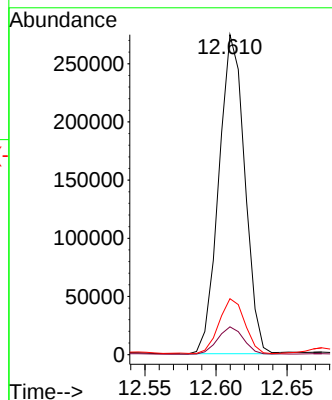
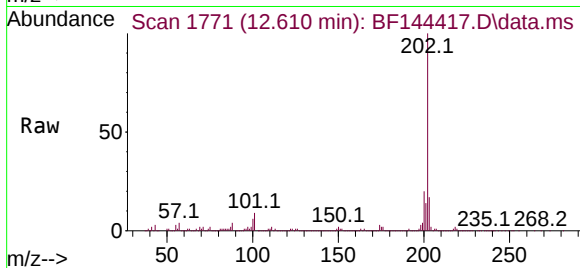




#75
Fluoranthene
Concen: 42.087 ng
RT: 12.610 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF144417.D
Acq: 03 Dec 2025 14:08

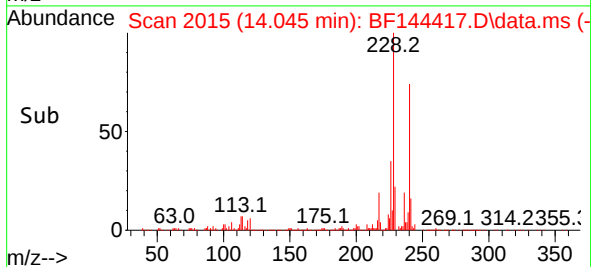
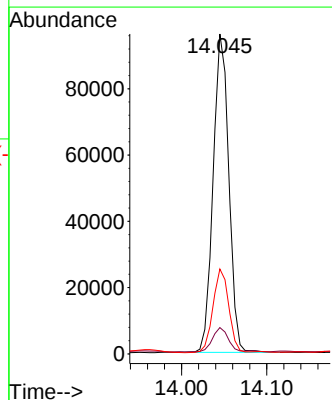
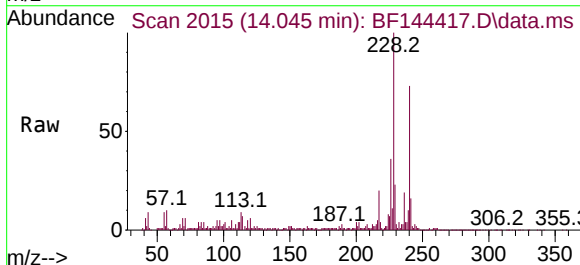
Instrument :
BNA_F
ClientSampleId :
B50-SP14-112025

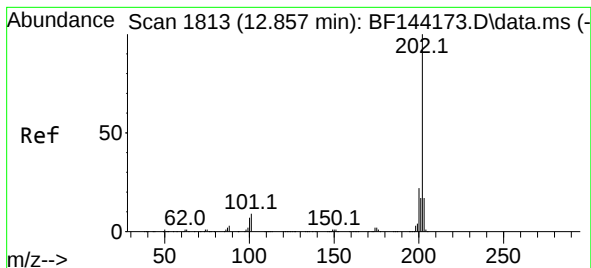
Tgt Ion:202 Resp: 348383
Ion Ratio Lower Upper
202 100
101 8.7 0.0 27.9
203 17.5 0.0 37.5



#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.045 min Scan# 2015
Delta R.T. -0.006 min
Lab File: BF144417.D
Acq: 03 Dec 2025 14:08

Tgt Ion:240 Resp: 122787
Ion Ratio Lower Upper
240 100
120 8.2 6.6 10.0
236 26.5 21.4 32.2





#78

Pyrene

Concen: 36.957 ng

RT: 12.845 min Scan# 1811

Delta R.T. -0.006 min

Lab File: BF144417.D

Acq: 03 Dec 2025 14:08

Instrument :

BNA_F

ClientSampleId :

B50-SP14-112025

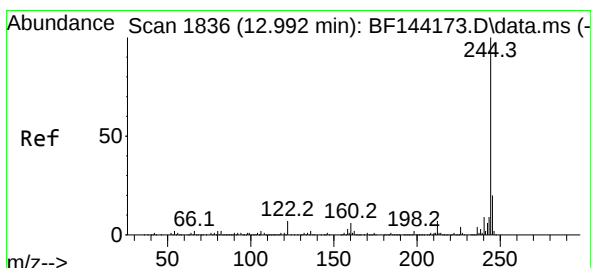
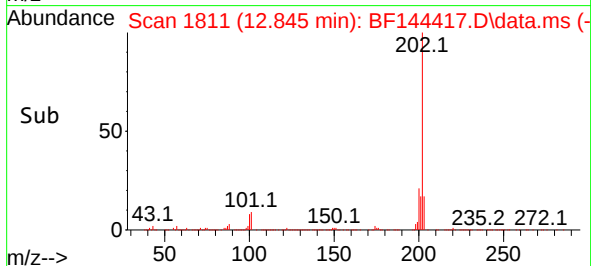
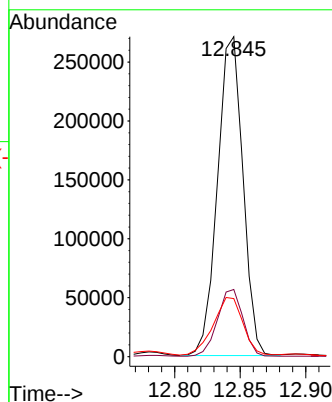
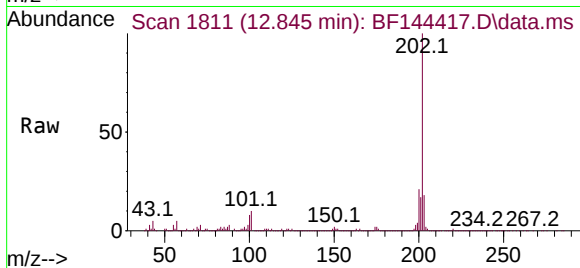
Tgt Ion:202 Resp: 365877

Ion Ratio Lower Upper

202 100

200 21.0 17.2 25.8

203 18.1 13.7 20.5



#79

Terphenyl-d14

Concen: 44.356 ng

RT: 12.980 min Scan# 1834

Delta R.T. -0.012 min

Lab File: BF144417.D

Acq: 03 Dec 2025 14:08

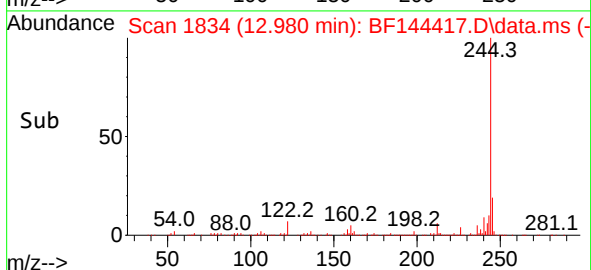
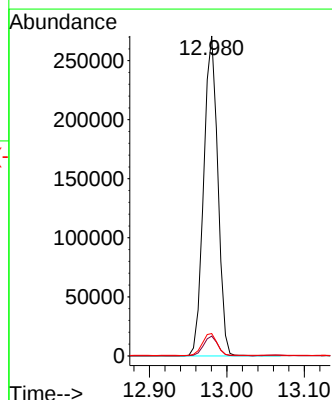
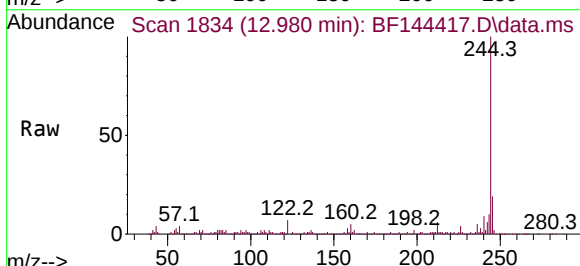
Tgt Ion:244 Resp: 342879

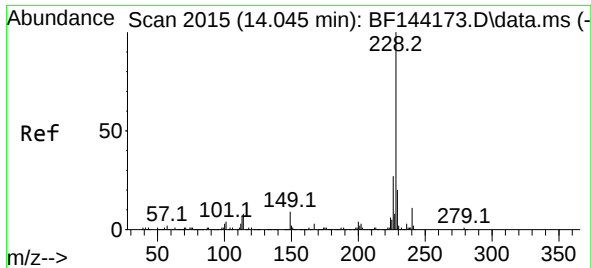
Ion Ratio Lower Upper

244 100

212 6.2 5.3 7.9

122 7.0 5.6 8.4

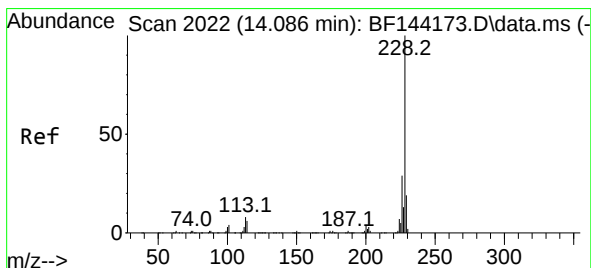
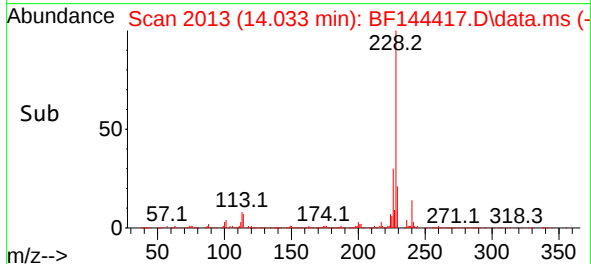
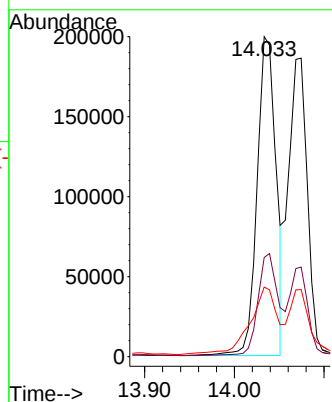
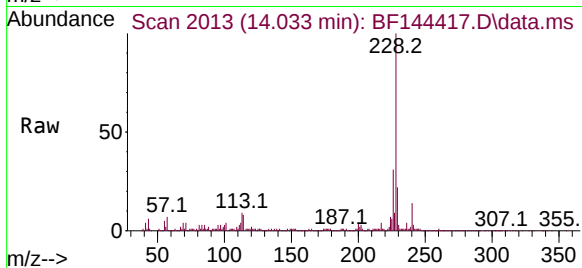




#81
Benzo(a)anthracene
Concen: 34.426 ng
RT: 14.033 min Scan# 20
Delta R.T. -0.012 min
Lab File: BF144417.D
Acq: 03 Dec 2025 14:08

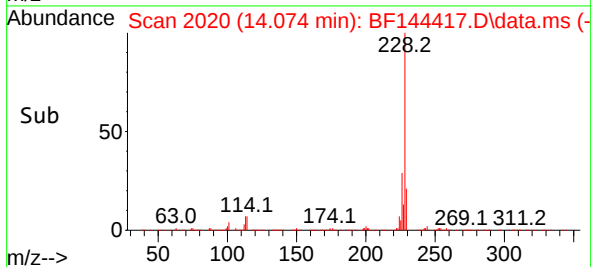
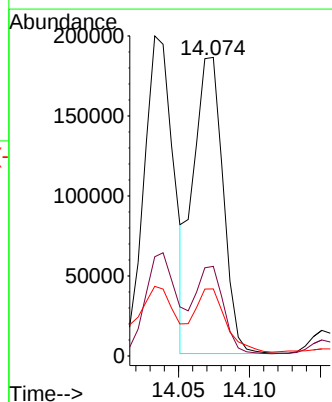
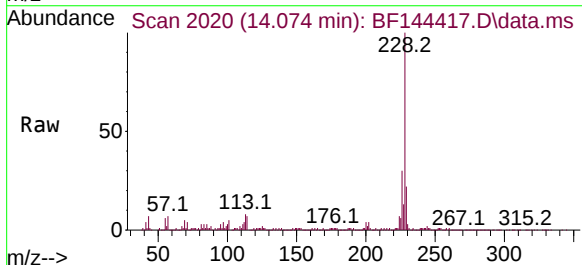
Instrument :
BNA_F
ClientSampleId :
B50-SP14-112025

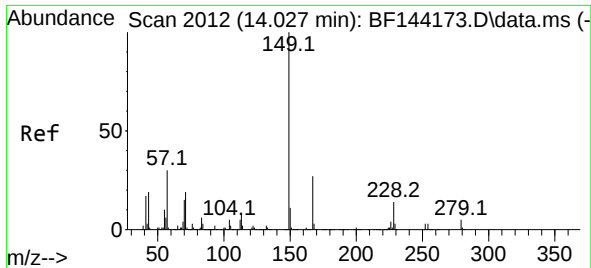
Tgt Ion:228 Resp: 292970
Ion Ratio Lower Upper
228 100
226 31.0 21.8 32.8
229 21.7 15.8 23.6



#83
Chrysene
Concen: 34.326 ng
RT: 14.074 min Scan# 2020
Delta R.T. -0.006 min
Lab File: BF144417.D
Acq: 03 Dec 2025 14:08

Tgt Ion:228 Resp: 269665
Ion Ratio Lower Upper
228 100
226 30.0 22.9 34.3
229 22.4 15.0 22.6

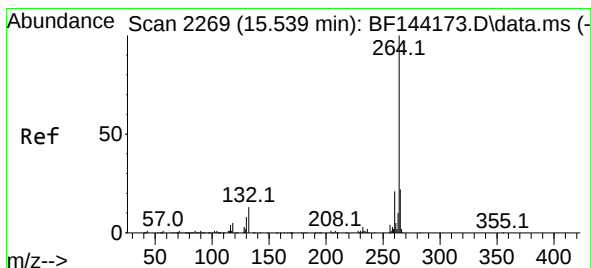
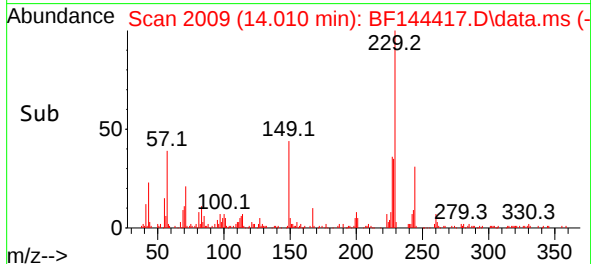
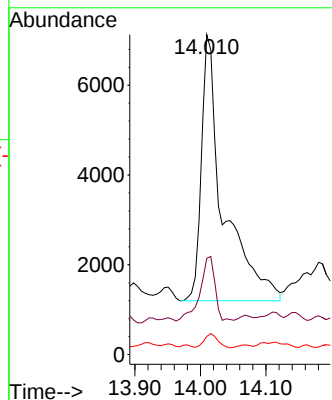
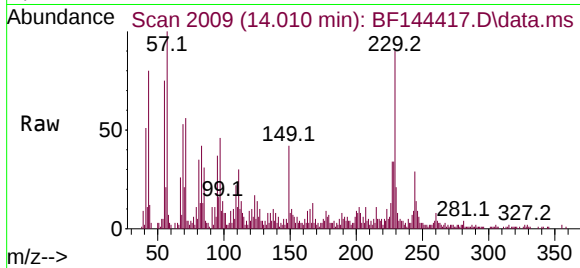




#84
Bis(2-ethylhexyl)phthalate
Concen: 2.930 ng
RT: 14.010 min Scan# 2012
Delta R.T. -0.018 min
Lab File: BF144417.D
Acq: 03 Dec 2025 14:08

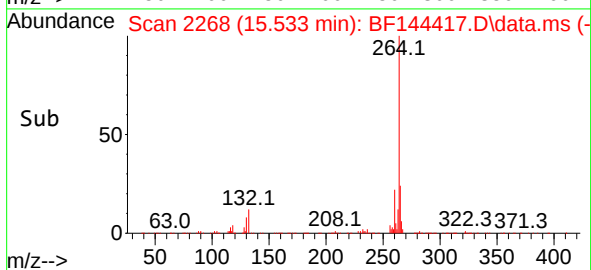
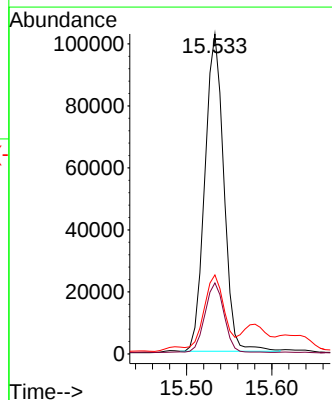
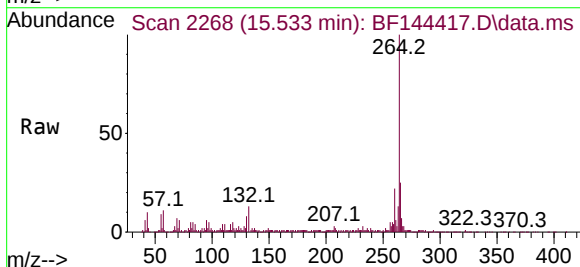
Instrument :
BNA_F
ClientSampleId :
B50-SP14-112025

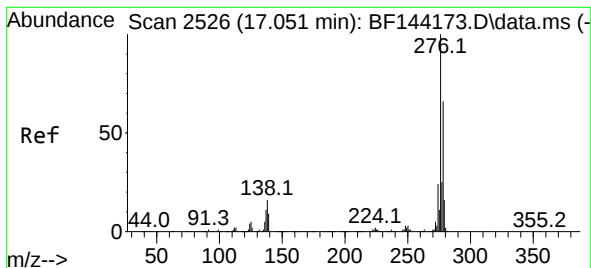
Tgt Ion:149 Resp: 13762
Ion Ratio Lower Upper
149 100
167 30.1 21.8 32.8
279 5.7 3.7 5.5#



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.533 min Scan# 2268
Delta R.T. -0.006 min
Lab File: BF144417.D
Acq: 03 Dec 2025 14:08

Tgt Ion:264 Resp: 158132
Ion Ratio Lower Upper
264 100
260 22.2 17.1 25.7
265 24.7 17.4 26.0





#87

Indeno(1,2,3-cd)pyrene

Concen: 17.582 ng

RT: 17.033 min Scan# 21

Delta R.T. -0.000 min

Lab File: BF144417.D

Acq: 03 Dec 2025 14:08

Instrument :

BNA_F

ClientSampleId :

B50-SP14-112025

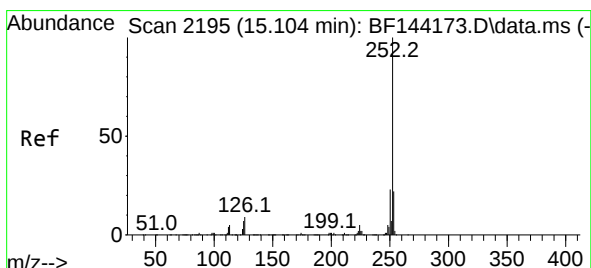
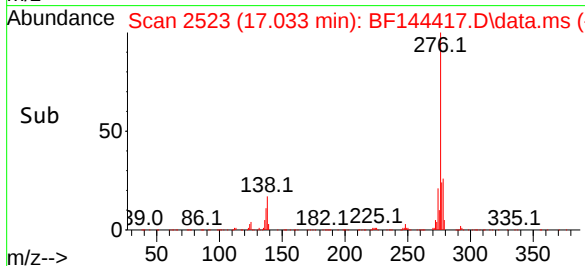
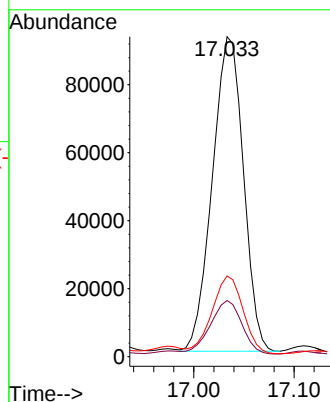
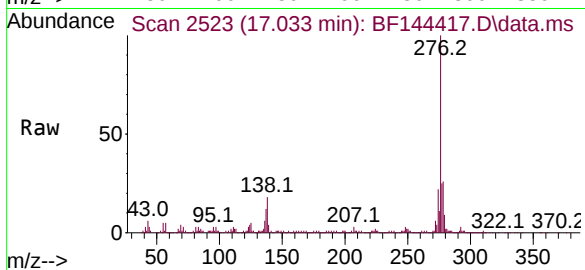
Tgt Ion:276 Resp: 199577

Ion Ratio Lower Upper

276 100

138 17.2 13.9 20.9

277 24.8 19.8 29.6



#88

Benzo(b)fluoranthene

Concen: 45.374 ng m

RT: 15.104 min Scan# 2195

Delta R.T. 0.006 min

Lab File: BF144417.D

Acq: 03 Dec 2025 14:08

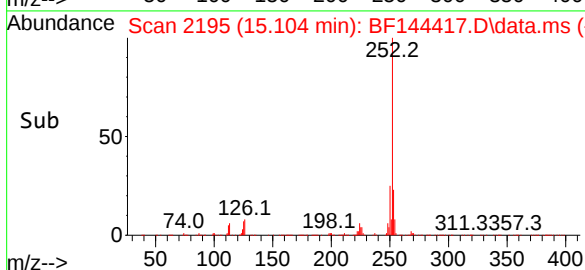
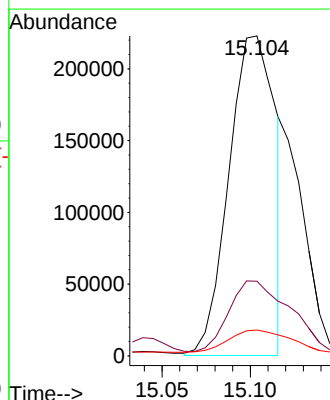
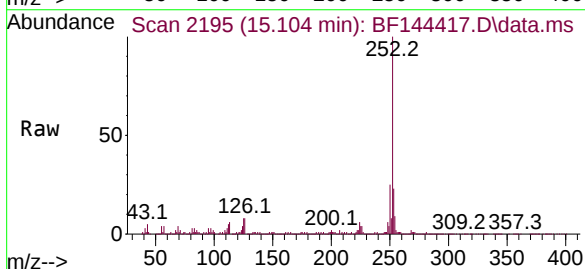
Tgt Ion:252 Resp: 407914

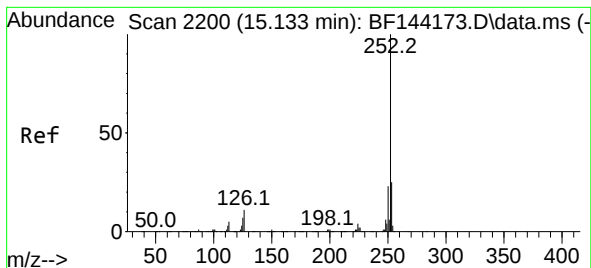
Ion Ratio Lower Upper

252 100

253 23.3 17.4 26.2

125 8.1 5.3 7.9#





#89

Benzo(k)fluoranthene

Concen: 16.333 ng m

RT: 15.116 min Scan# 21

Delta R.T. -0.012 min

Lab File: BF144417.D

Acq: 03 Dec 2025 14:08

Instrument :

BNA_F

ClientSampleId :

B50-SP14-112025

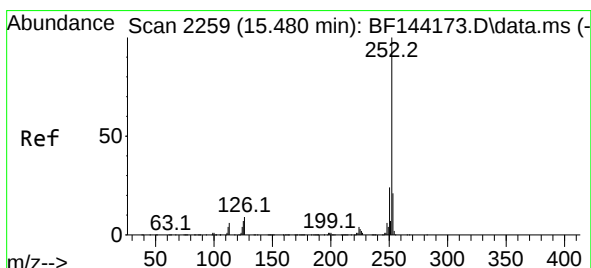
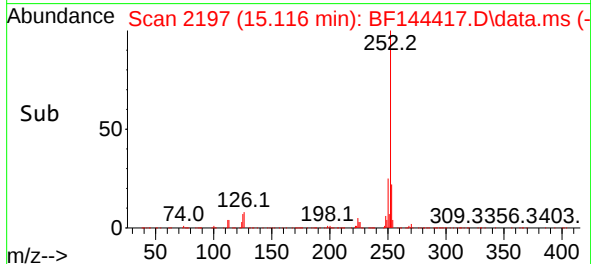
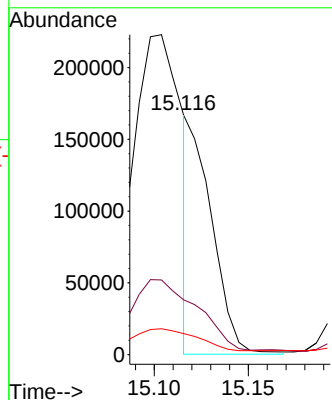
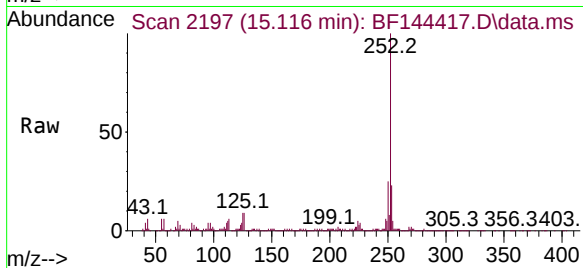
Tgt Ion:252 Resp: 137441

Ion Ratio Lower Upper

252 100

253 22.8 18.0 27.0

125 8.8 5.4 8.2#



#90

Benzo(a)pyrene

Concen: 41.349 ng

RT: 15.474 min Scan# 2258

Delta R.T. -0.000 min

Lab File: BF144417.D

Acq: 03 Dec 2025 14:08

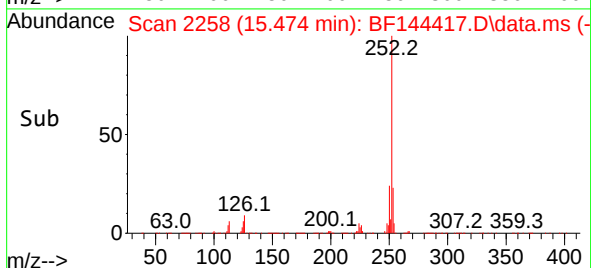
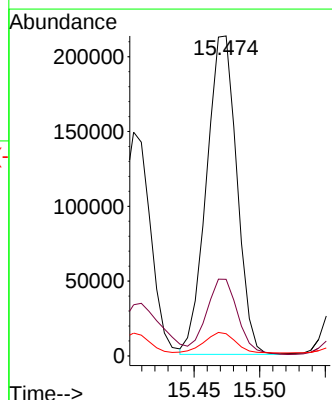
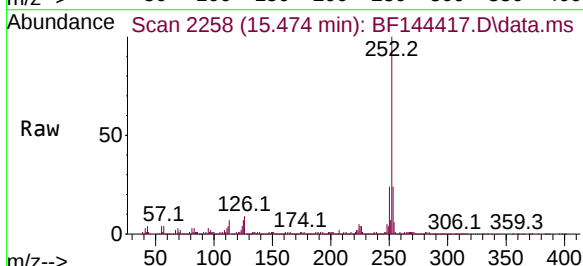
Tgt Ion:252 Resp: 342940

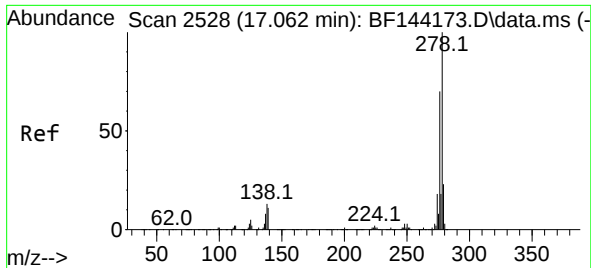
Ion Ratio Lower Upper

252 100

253 23.9 16.7 25.1

125 6.9 5.7 8.5

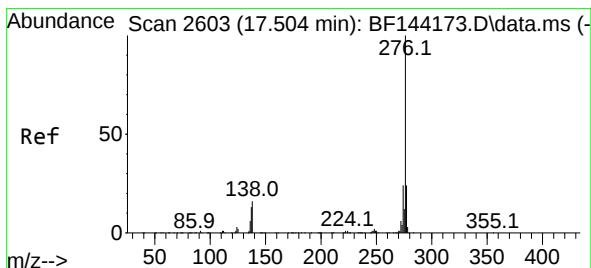
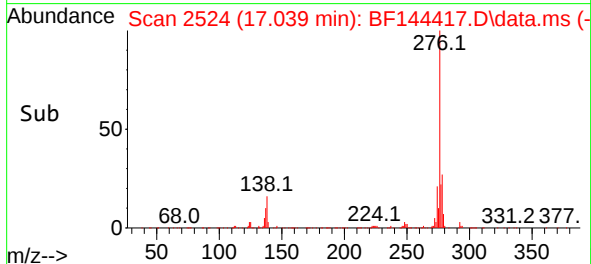
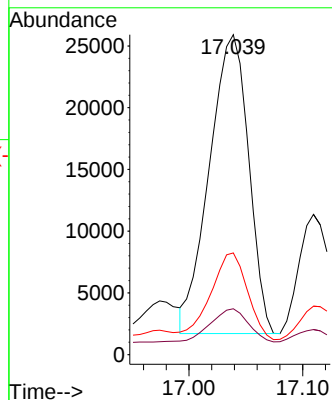
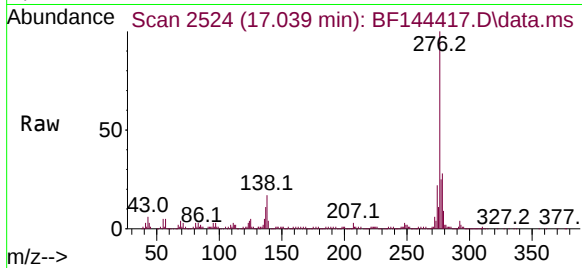




#91
Dibenzo(a,h)anthracene
Concen: 6.375 ng
RT: 17.039 min Scan# 21
Delta R.T. -0.012 min
Lab File: BF144417.D
Acq: 03 Dec 2025 14:08

Instrument :
BNA_F
ClientSampleId :
B50-SP14-112025

Tgt Ion:278 Resp: 58121
Ion Ratio Lower Upper
278 100
139 14.3 9.1 13.7#
279 31.8 18.2 27.4#



#92
Benzo(g,h,i)perylene
Concen: 20.698 ng
RT: 17.492 min Scan# 2601
Delta R.T. -0.000 min
Lab File: BF144417.D
Acq: 03 Dec 2025 14:08

Tgt Ion:276 Resp: 186335
Ion Ratio Lower Upper
276 100
277 23.8 19.0 28.4
138 16.1 12.9 19.3

