

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF120325\
 Data File : BF144420.D
 Acq On : 03 Dec 2025 15:36
 Operator : RC/JU
 Sample : Q3741-02
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 B50-SP13-112025

Quant Time: Dec 03 15:56:36 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)

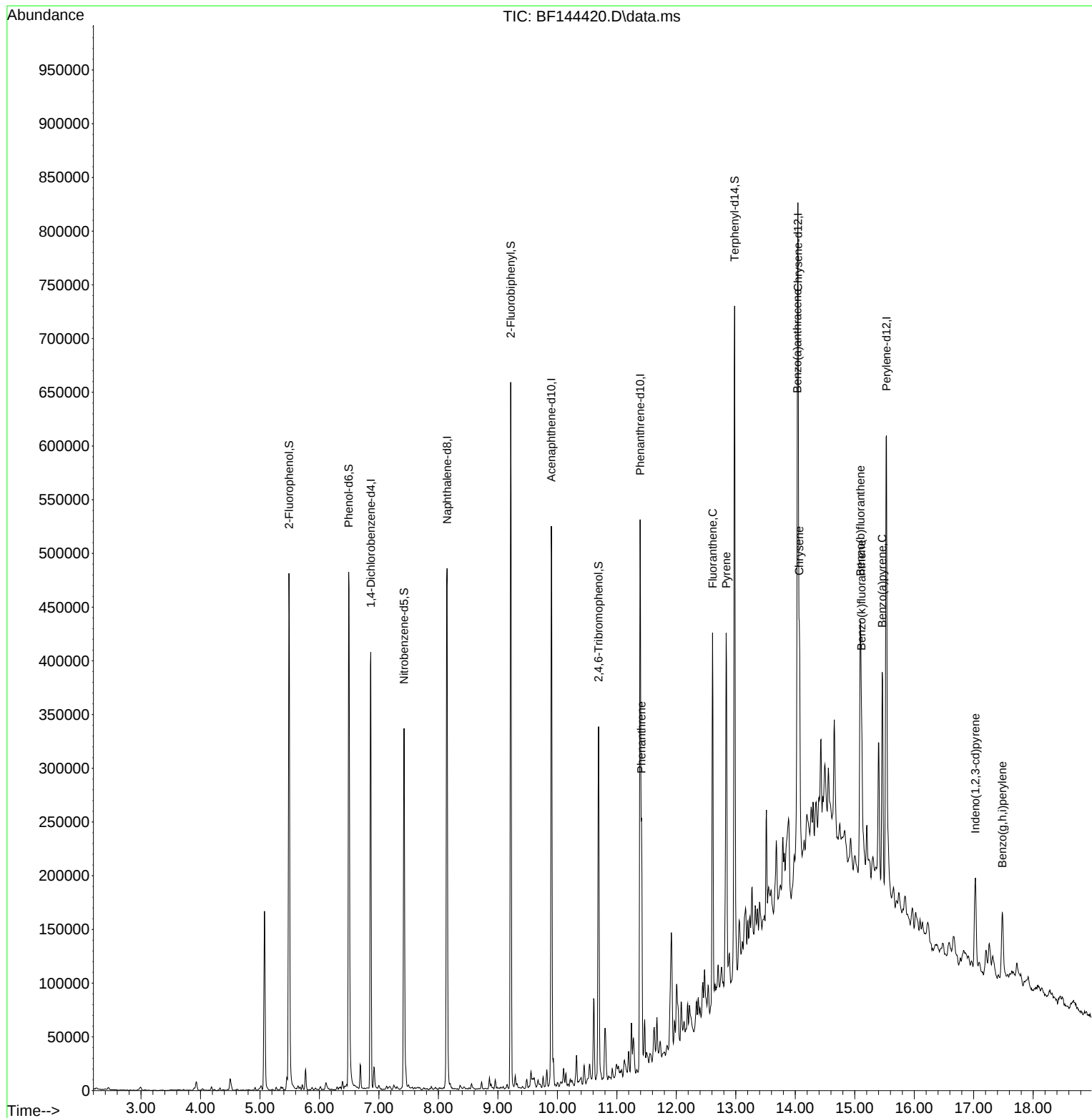
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.863	152	88360	20.000	ng	-0.01
21) Naphthalene-d8	8.145	136	321604	20.000	ng	-0.01
39) Acenaphthene-d10	9.898	164	169125	20.000	ng	-0.02
64) Phenanthrene-d10	11.392	188	275703	20.000	ng	-0.01
76) Chrysene-d12	14.045	240	255767	20.000	ng	0.00
86) Perylene-d12	15.533	264	296885	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.487	112	204468	36.212	ng	0.00
7) Phenol-d6	6.493	99	232644	36.363	ng	0.00
23) Nitrobenzene-d5	7.422	82	144028	25.865	ng	-0.01
42) 2,4,6-Tribromophenol	10.692	330	68036	32.057	ng	-0.01
45) 2-Fluorobiphenyl	9.216	172	306402	26.757	ng	-0.01
79) Terphenyl-d14	12.980	244	332358	20.641	ng	-0.01
Target Compounds						
						Qvalue
71) Phenanthrene	11.416	178	122795	8.946	ng	98
75) Fluoranthene	12.610	202	201389	14.202	ng	100
78) Pyrene	12.839	202	195470	9.479	ng	98
81) Benzo(a)anthracene	14.033	228	137286	7.745	ng	97
83) Chrysene	14.069	228	124267m	7.594	ng	
87) Indeno(1,2,3-cd)pyrene	17.027	276	62628	2.939	ng	98
88) Benzo(b)fluoranthene	15.098	252	170210m	10.084	ng	
89) Benzo(k)fluoranthene	15.110	252	64199m	4.064	ng	
90) Benzo(a)pyrene	15.463	252	134237	8.621	ng	# 94
92) Benzo(g,h,i)perylene	17.480	276	58093	3.437	ng	95

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

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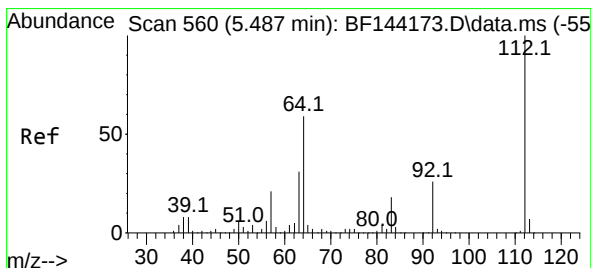
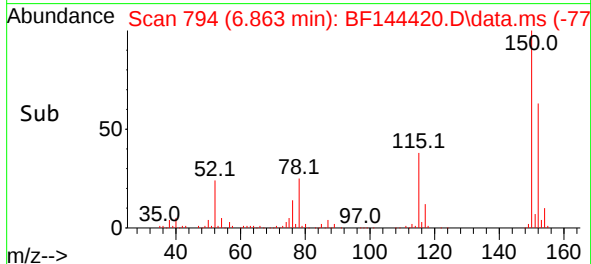
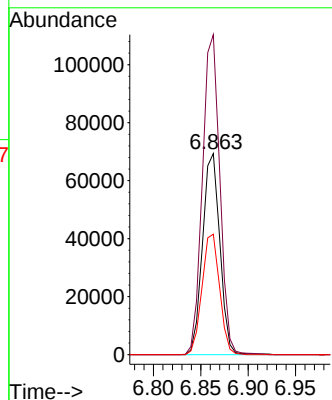
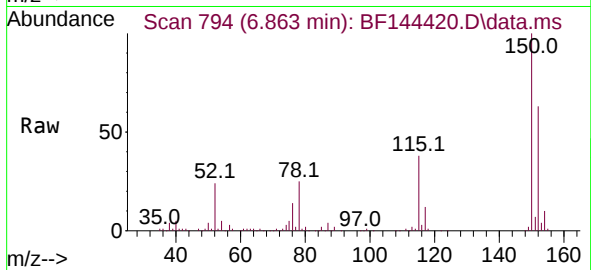




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.863 min Scan# 796
Delta R.T. -0.012 min
Lab File: BF144420.D
Acq: 03 Dec 2025 15:36

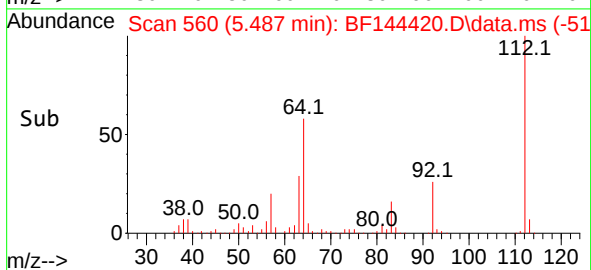
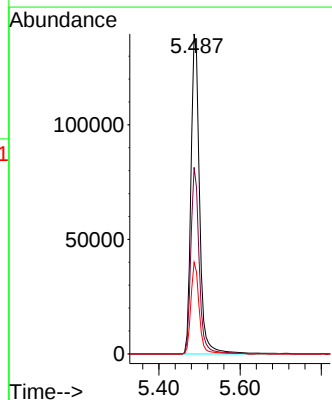
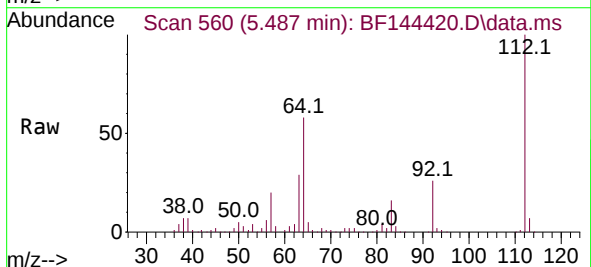
Instrument :
BNA_F
ClientSampleId :
B50-SP13-112025

Tgt Ion:152 Resp: 88360
Ion Ratio Lower Upper
152 100
150 159.2 127.4 191.0
115 59.9 49.5 74.3



#5
2-Fluorophenol
Concen: 36.212 ng
RT: 5.487 min Scan# 560
Delta R.T. -0.006 min
Lab File: BF144420.D
Acq: 03 Dec 2025 15:36

Tgt Ion:112 Resp: 204468
Ion Ratio Lower Upper
112 100
64 58.3 47.2 70.8
63 28.6 24.4 36.6

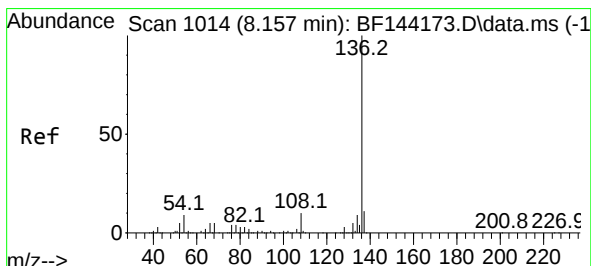
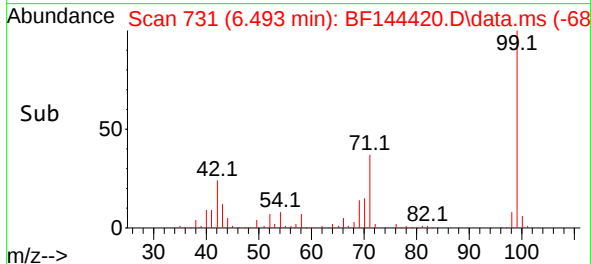
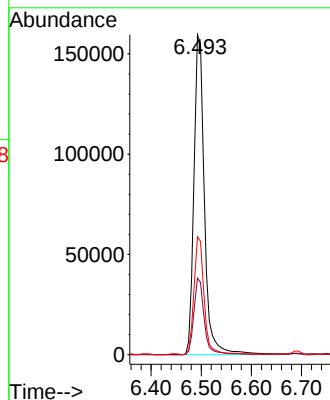
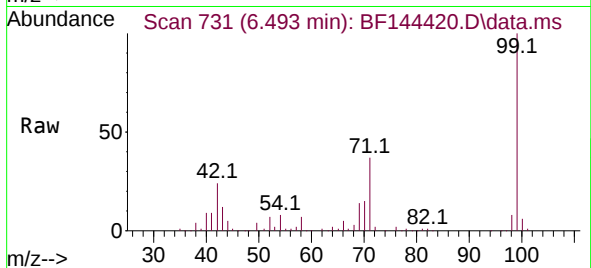




#7
Phenol-d6
Concen: 36.363 ng
RT: 6.493 min Scan# 71
Delta R.T. -0.006 min
Lab File: BF144420.D
Acq: 03 Dec 2025 15:36

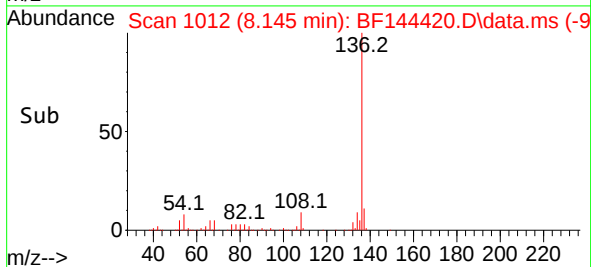
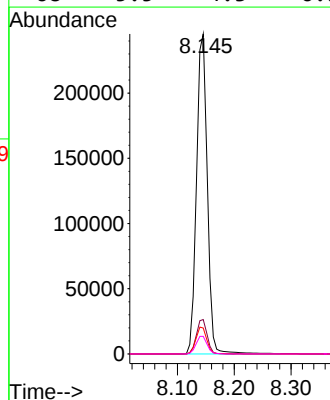
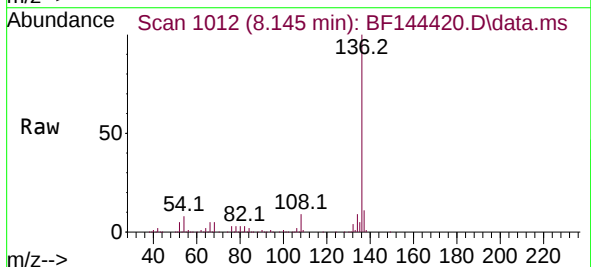
Instrument :
BNA_F
ClientSampleId :
B50-SP13-112025

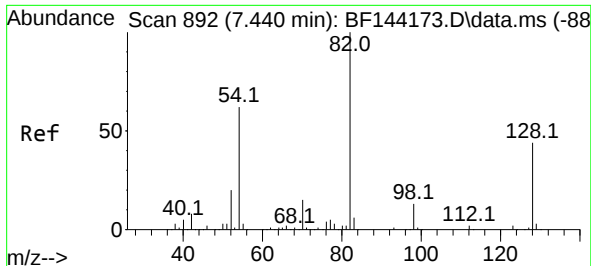
Tgt Ion: 99 Resp: 232644
Ion Ratio Lower Upper
99 100
42 23.9 20.9 31.3
71 36.8 31.4 47.2



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.145 min Scan# 1012
Delta R.T. -0.012 min
Lab File: BF144420.D
Acq: 03 Dec 2025 15:36

Tgt Ion:136 Resp: 321604
Ion Ratio Lower Upper
136 100
137 10.7 8.6 13.0
54 8.1 7.0 10.6
68 5.5 4.3 6.5





#23

Nitrobenzene-d5

Concen: 25.865 ng

RT: 7.422 min Scan# 89

Delta R.T. -0.012 min

Lab File: BF144420.D

Acq: 03 Dec 2025 15:36

Instrument :

BNA_F

ClientSampleId :

B50-SP13-112025

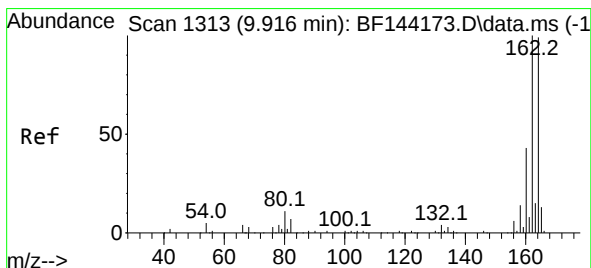
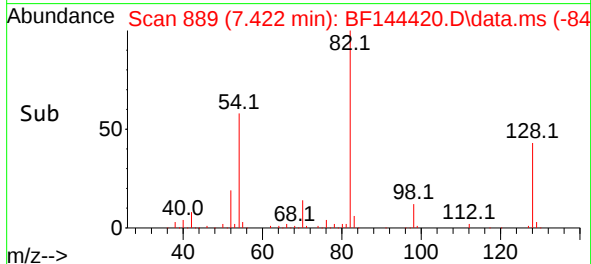
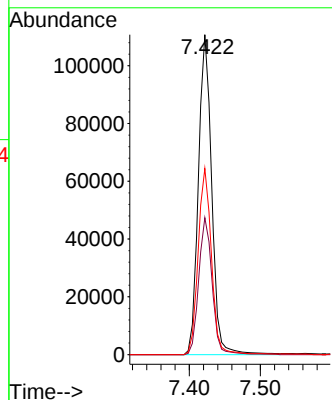
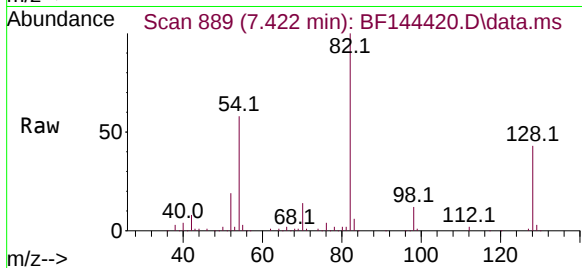
Tgt Ion: 82 Resp: 144028

Ion Ratio Lower Upper

82 100

128 42.8 34.7 52.1

54 58.2 49.5 74.3



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.898 min Scan# 1310

Delta R.T. -0.018 min

Lab File: BF144420.D

Acq: 03 Dec 2025 15:36

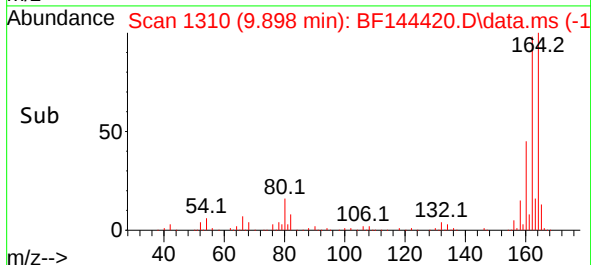
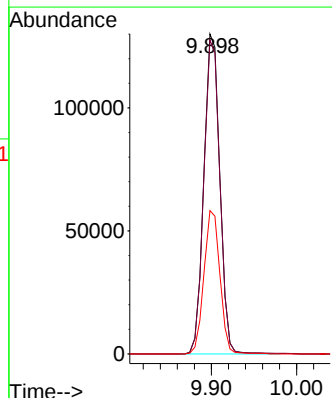
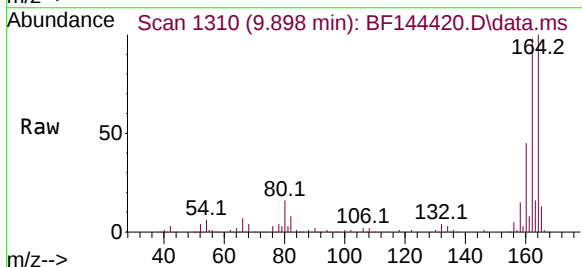
Tgt Ion:164 Resp: 169125

Ion Ratio Lower Upper

164 100

162 98.1 81.1 121.7

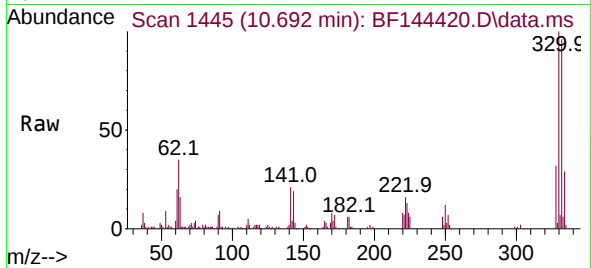
160 44.8 34.5 51.7



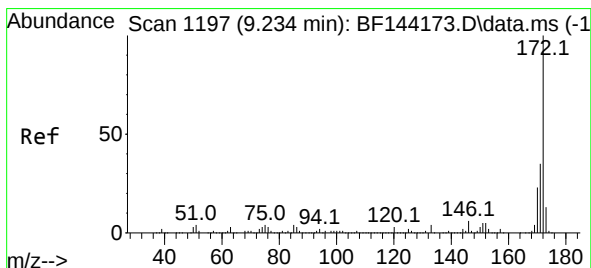
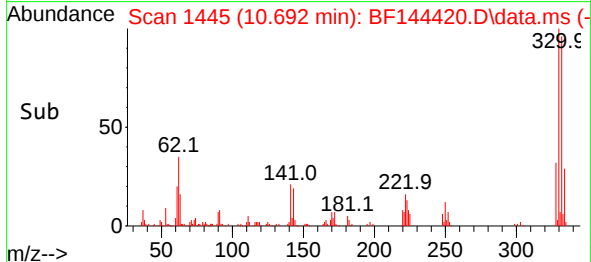
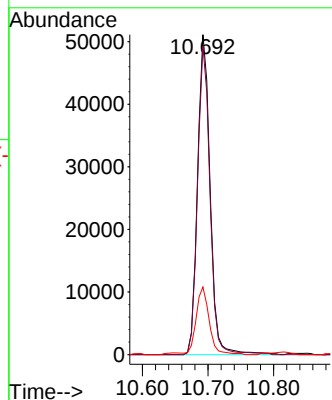


#42
2,4,6-Tribromophenol
Concen: 32.057 ng
RT: 10.692 min Scan# 1445
Delta R.T. -0.012 min
Lab File: BF144420.D
Acq: 03 Dec 2025 15:36

Instrument :
BNA_F
ClientSampleId :
B50-SP13-112025

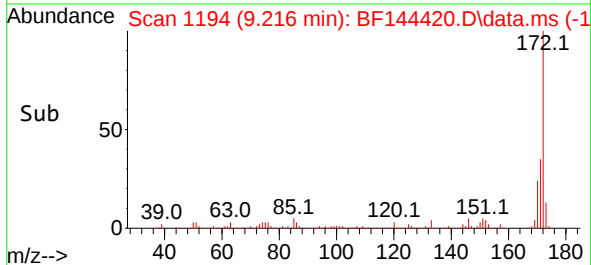
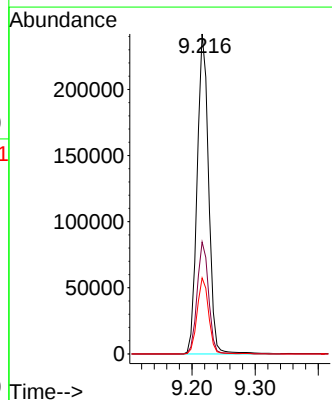
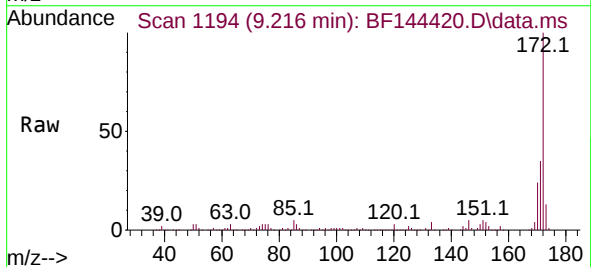


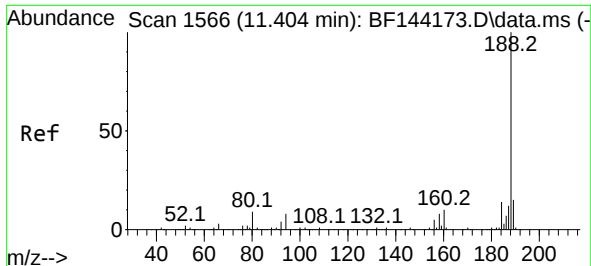
Tgt Ion: 330 Resp: 68036
Ion Ratio Lower Upper
330 100
332 94.8 76.7 115.1
141 21.8 17.8 26.8



#45
2-Fluorobiphenyl
Concen: 26.757 ng
RT: 9.216 min Scan# 1194
Delta R.T. -0.012 min
Lab File: BF144420.D
Acq: 03 Dec 2025 15:36

Tgt Ion: 172 Resp: 306402
Ion Ratio Lower Upper
172 100
171 35.0 28.1 42.1
170 23.7 18.6 28.0

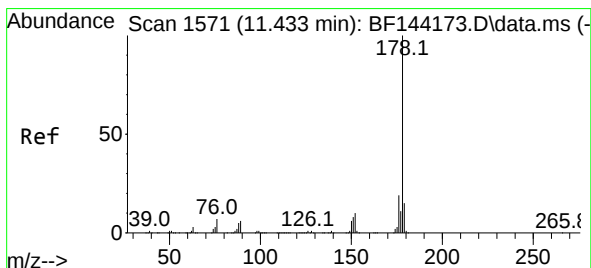
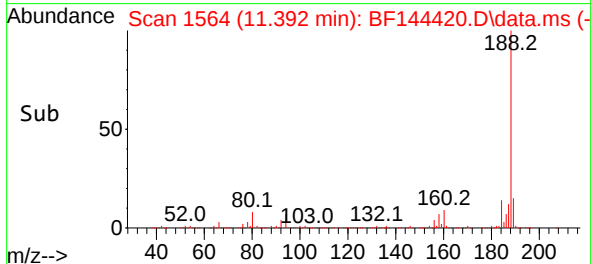
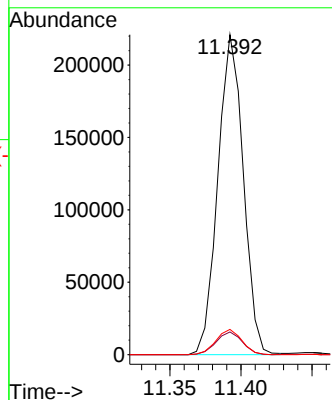
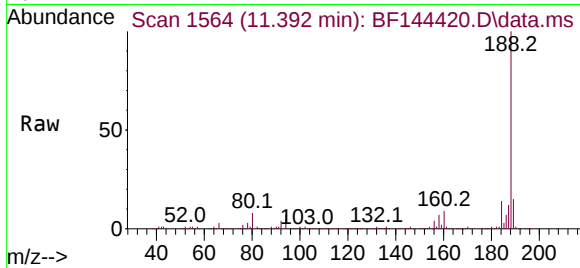




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.392 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF144420.D
Acq: 03 Dec 2025 15:36

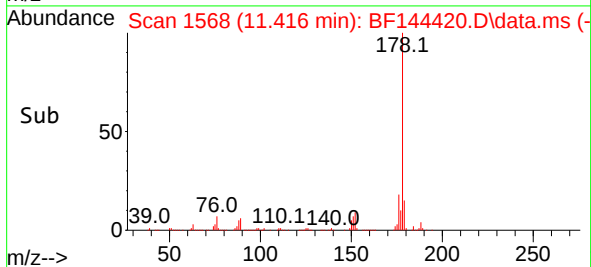
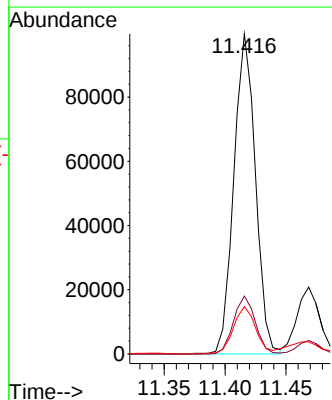
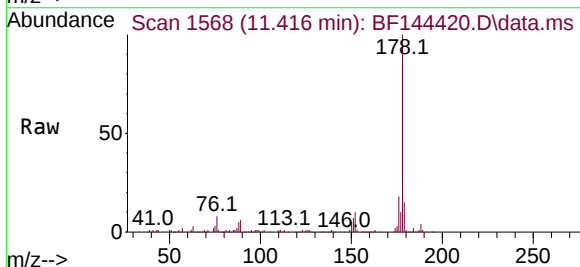
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B50-SP13-112025

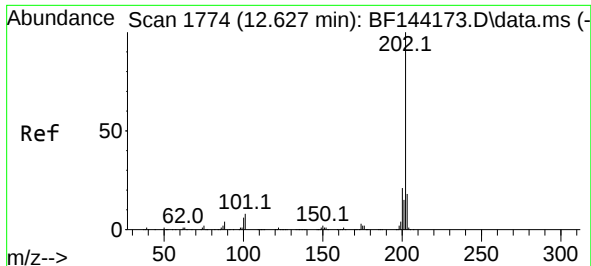
Tgt Ion:188 Resp: 275703
Ion Ratio Lower Upper
188 100
94 7.1 6.2 9.2
80 7.9 6.9 10.3



#71
Phenanthrene
Concen: 8.946 ng
RT: 11.416 min Scan# 1568
Delta R.T. -0.012 min
Lab File: BF144420.D
Acq: 03 Dec 2025 15:36

Tgt Ion:178 Resp: 122795
Ion Ratio Lower Upper
178 100
176 18.1 15.5 23.3
179 14.8 12.2 18.4

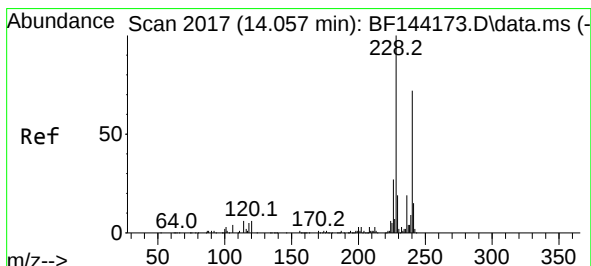
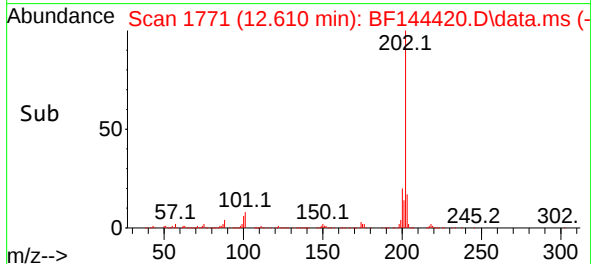
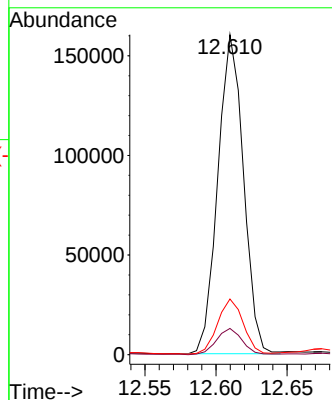
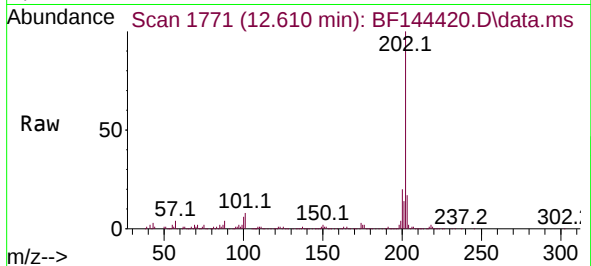




#75
Fluoranthene
Concen: 14.202 ng
RT: 12.610 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF144420.D
Acq: 03 Dec 2025 15:36

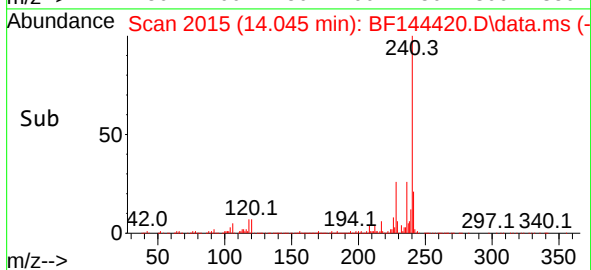
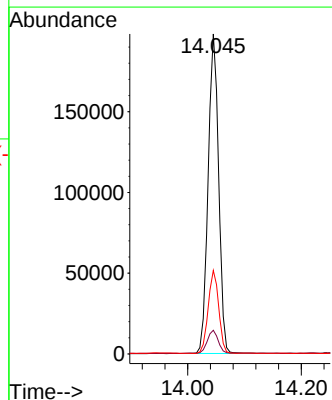
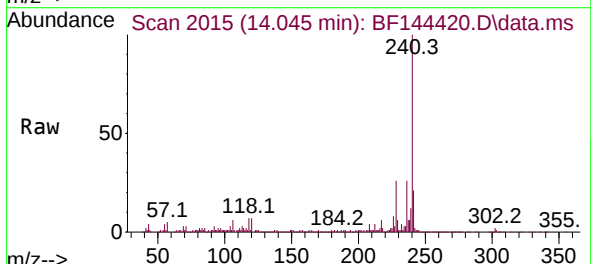
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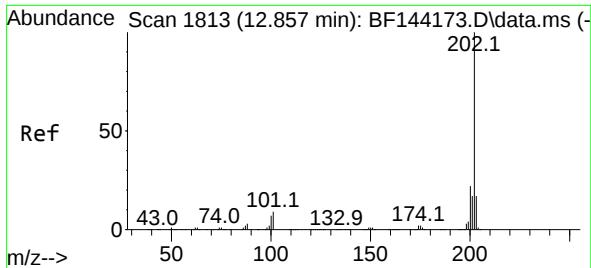
Tgt Ion:202 Resp: 201389
Ion Ratio Lower Upper
202 100
101 8.2 0.0 27.9
203 17.4 0.0 37.5



#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.045 min Scan# 2015
Delta R.T. -0.006 min
Lab File: BF144420.D
Acq: 03 Dec 2025 15:36

Tgt Ion:240 Resp: 255767
Ion Ratio Lower Upper
240 100
120 7.4 6.6 10.0
236 26.1 21.4 32.2

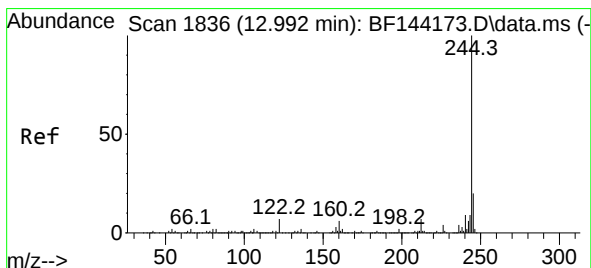
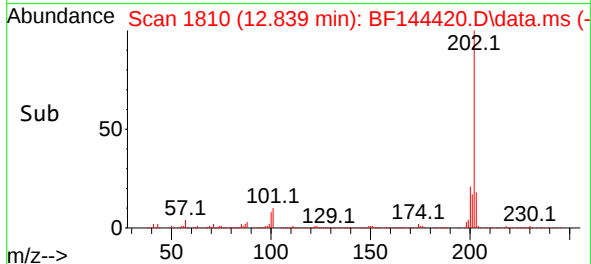
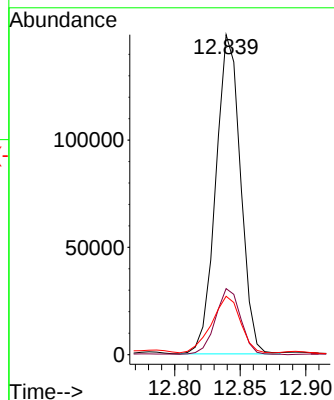
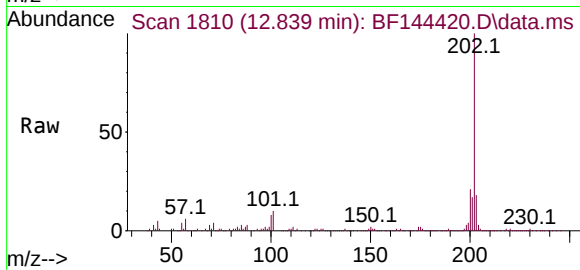




#78
 Pyrene
 Concen: 9.479 ng
 RT: 12.839 min Scan# 1813
 Delta R.T. -0.012 min
 Lab File: BF144420.D
 Acq: 03 Dec 2025 15:36

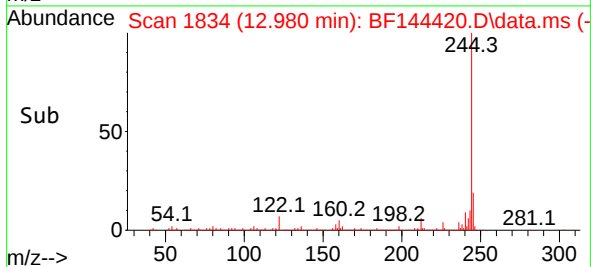
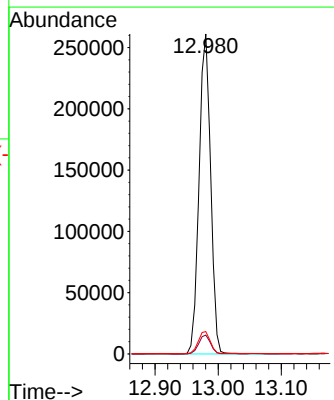
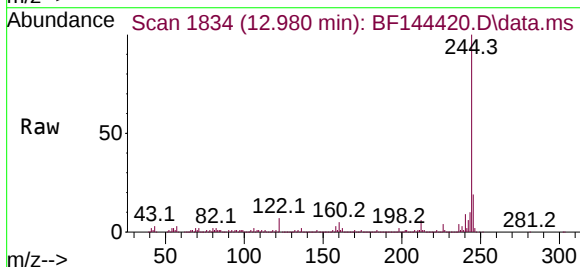
Instrument :
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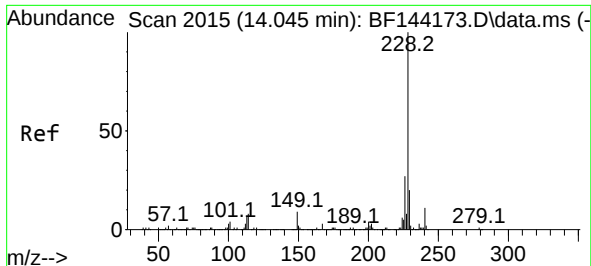
Tgt Ion:202 Resp: 195470
 Ion Ratio Lower Upper
 202 100
 200 20.6 17.2 25.8
 203 18.2 13.7 20.5



#79
 Terphenyl-d14
 Concen: 20.641 ng
 RT: 12.980 min Scan# 1834
 Delta R.T. -0.012 min
 Lab File: BF144420.D
 Acq: 03 Dec 2025 15:36

Tgt Ion:244 Resp: 332358
 Ion Ratio Lower Upper
 244 100
 212 5.9 5.3 7.9
 122 7.0 5.6 8.4

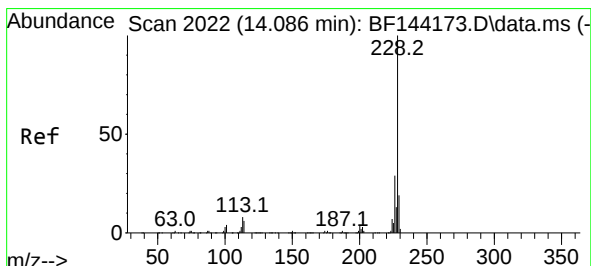
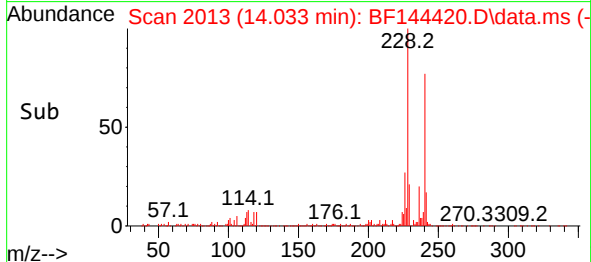
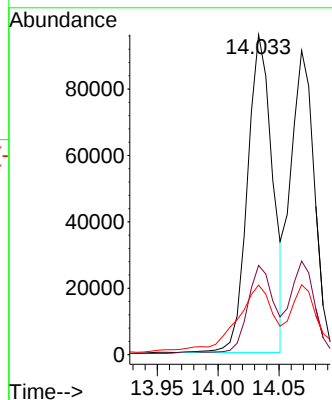
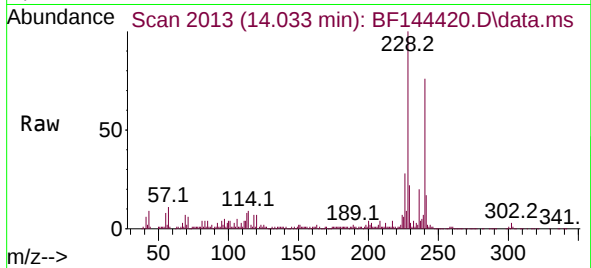




#81
Benzo(a)anthracene
Concen: 7.745 ng
RT: 14.033 min Scan# 2019
Delta R.T. -0.012 min
Lab File: BF144420.D
Acq: 03 Dec 2025 15:36

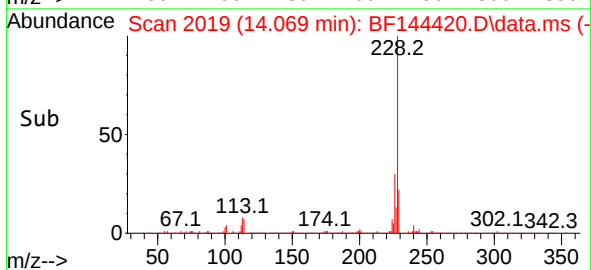
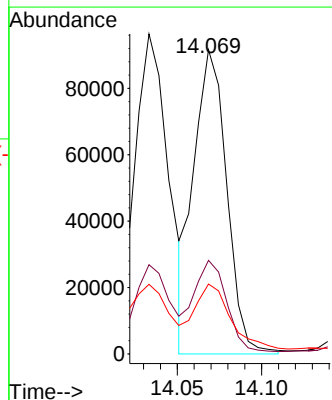
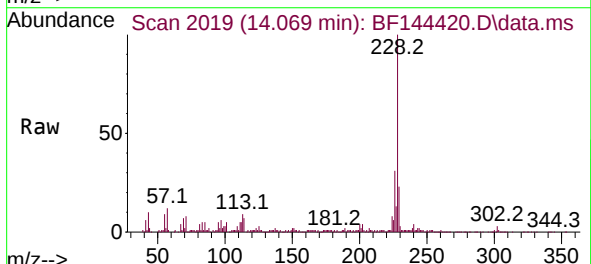
Instrument :
BNA_F
ClientSampleId :
B50-SP13-112025

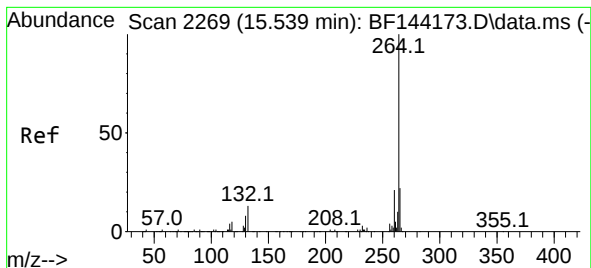
Tgt Ion:228 Resp: 137286
Ion Ratio Lower Upper
228 100
226 27.9 21.8 32.8
229 21.7 15.8 23.6



#83
Chrysene
Concen: 7.594 ng m
RT: 14.069 min Scan# 2019
Delta R.T. -0.012 min
Lab File: BF144420.D
Acq: 03 Dec 2025 15:36

Tgt Ion:228 Resp: 124267
Ion Ratio Lower Upper
228 100
226 30.7 22.9 34.3
229 23.0 15.0 22.6#





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.533 min Scan# 21

Delta R.T. -0.006 min

Lab File: BF144420.D

Acq: 03 Dec 2025 15:36

Instrument :

BNA_F

ClientSampleId :

B50-SP13-112025

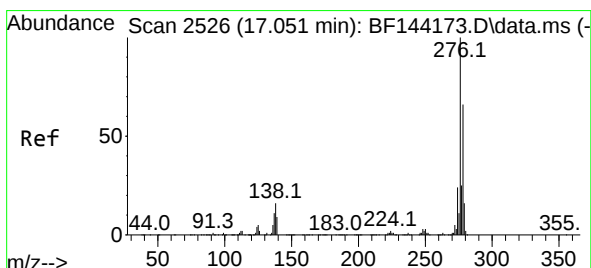
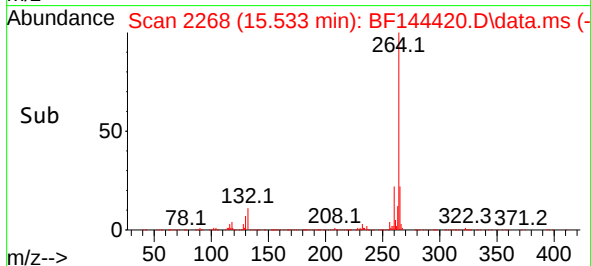
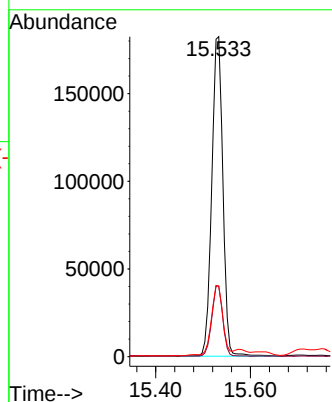
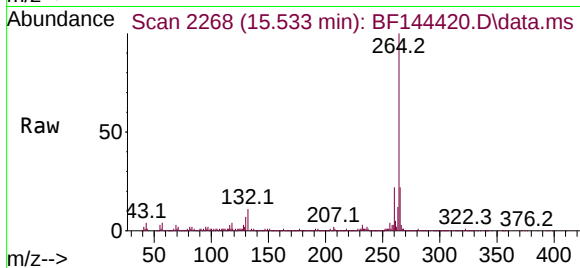
Tgt Ion:264 Resp: 296885

Ion Ratio Lower Upper

264 100

260 22.0 17.1 25.7

265 22.1 17.4 26.0



#87

Indeno(1,2,3-cd)pyrene

Concen: 2.939 ng

RT: 17.027 min Scan# 2522

Delta R.T. -0.006 min

Lab File: BF144420.D

Acq: 03 Dec 2025 15:36

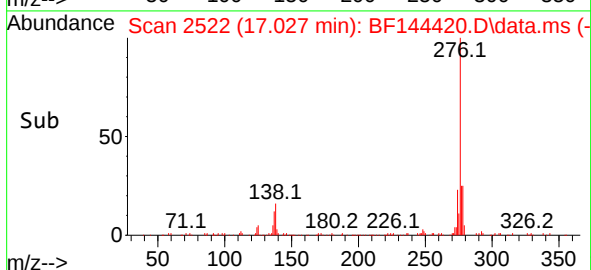
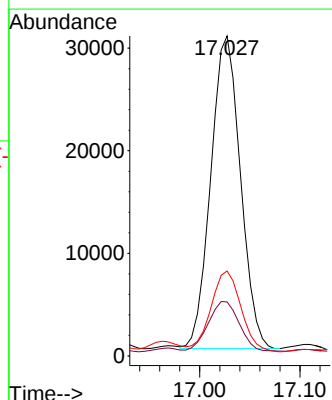
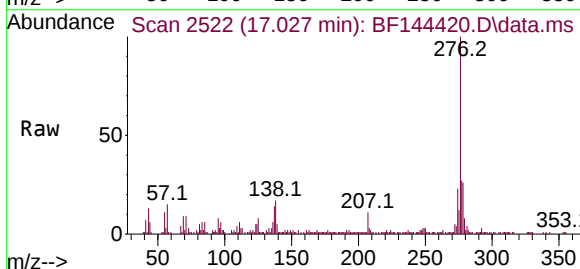
Tgt Ion:276 Resp: 62628

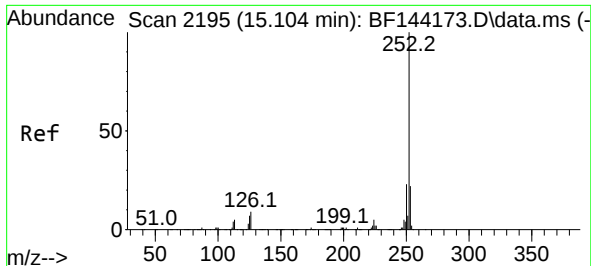
Ion Ratio Lower Upper

276 100

138 16.9 13.9 20.9

277 26.4 19.8 29.6

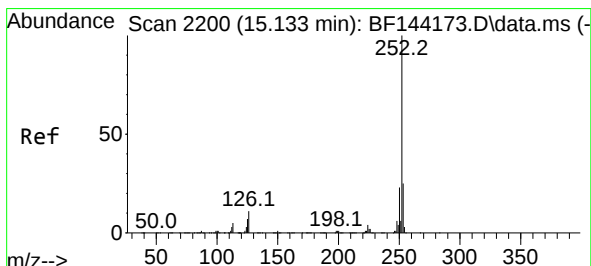
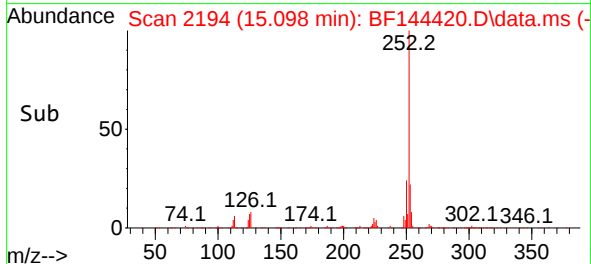
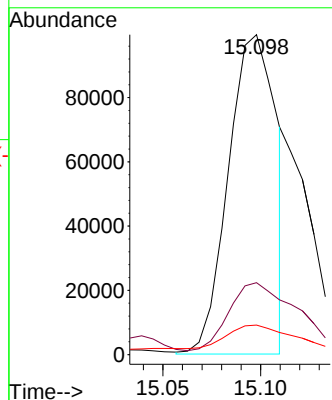
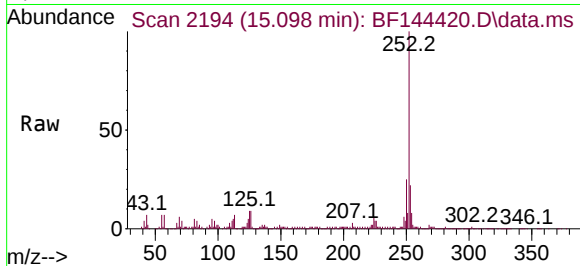




#88
Benzo(b)fluoranthene
Concen: 10.084 ng m
RT: 15.098 min Scan# 2195
Delta R.T. -0.000 min
Lab File: BF144420.D
Acq: 03 Dec 2025 15:36

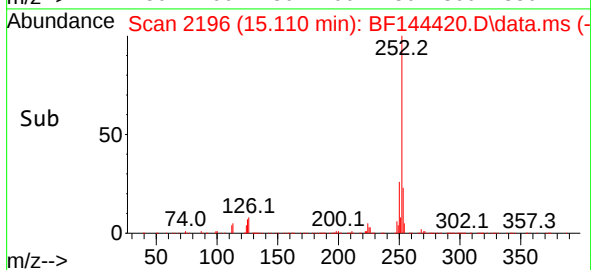
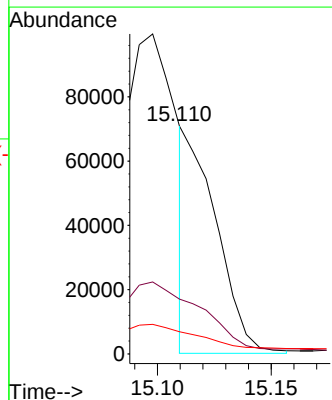
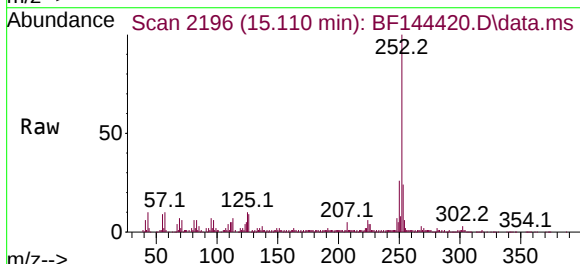
Instrument :
BNA_F
ClientSampleId :
B50-SP13-112025

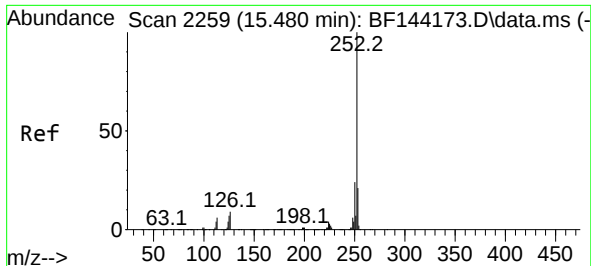
Tgt Ion:252 Resp: 170210
Ion Ratio Lower Upper
252 100
253 22.5 17.4 26.2
125 9.2 5.3 7.9#



#89
Benzo(k)fluoranthene
Concen: 4.064 ng m
RT: 15.110 min Scan# 2196
Delta R.T. -0.018 min
Lab File: BF144420.D
Acq: 03 Dec 2025 15:36

Tgt Ion:252 Resp: 64199
Ion Ratio Lower Upper
252 100
253 24.0 18.0 27.0
125 9.7 5.4 8.2#

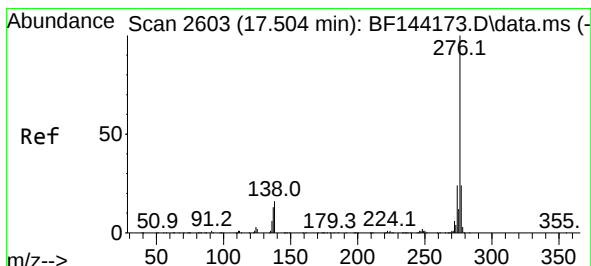
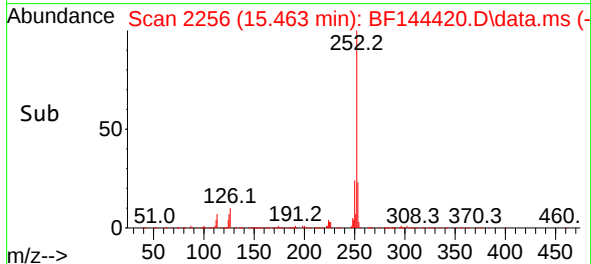
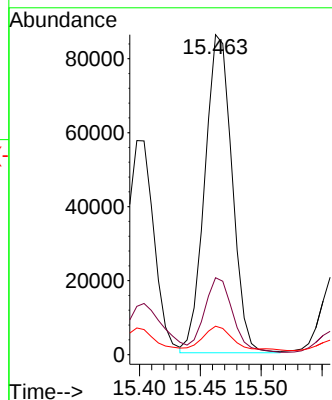
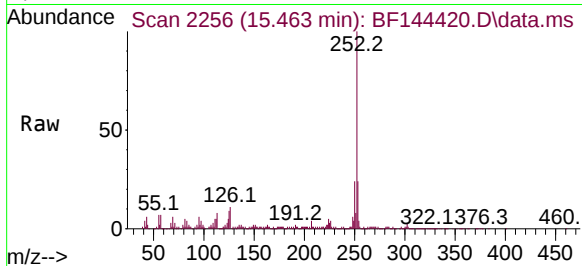




#90
Benzo(a)pyrene
Concen: 8.621 ng
RT: 15.463 min Scan# 21
Delta R.T. -0.012 min
Lab File: BF144420.D
Acq: 03 Dec 2025 15:36

Instrument :
BNA_F
ClientSampleId :
B50-SP13-112025

Tgt Ion:252 Resp: 134237
Ion Ratio Lower Upper
252 100
253 24.0 16.7 25.1
125 8.9 5.7 8.5#



#92
Benzo(g,h,i)perylene
Concen: 3.437 ng
RT: 17.480 min Scan# 2599
Delta R.T. -0.012 min
Lab File: BF144420.D
Acq: 03 Dec 2025 15:36

Tgt Ion:276 Resp: 58093
Ion Ratio Lower Upper
276 100
277 25.4 19.0 28.4
138 19.3 12.9 19.3

