

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF060425\
 Data File : BF142618.D
 Acq On : 04 Jun 2025 20:47
 Operator : RC/JU
 Sample : Q2173-01 5X
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 OR-400-CF-402B-COMP-23

Quant Time: Jun 05 01:27:37 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)

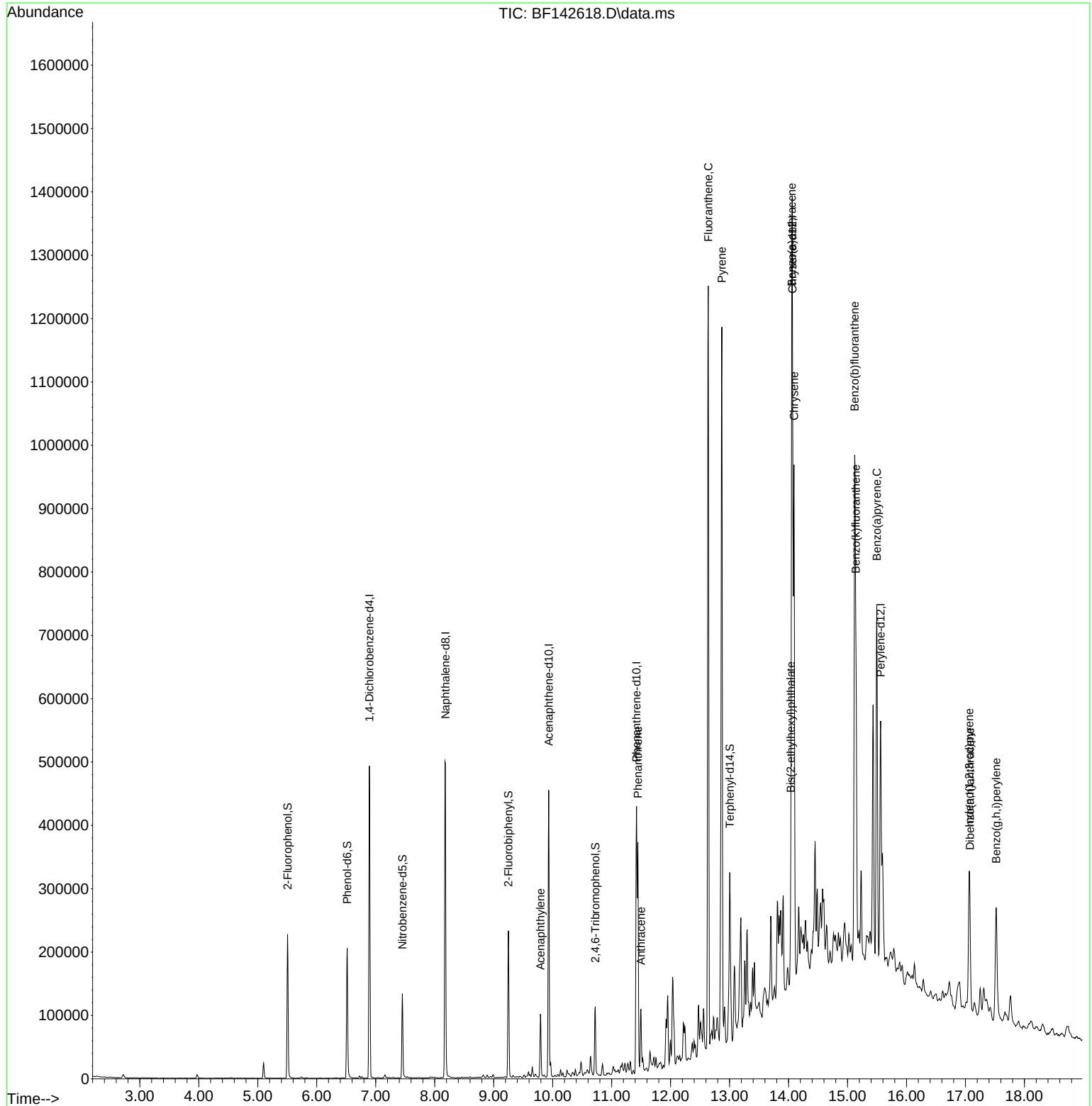
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.893	152	109247	20.000	ng	-0.01
21) Naphthalene-d8	8.181	136	339260	20.000	ng	0.00
39) Acenaphthene-d10	9.934	164	134857	20.000	ng	-0.01
64) Phenanthrene-d10	11.422	188	215883	20.000	ng	-0.01
76) Chrysene-d12	14.069	240	274672	20.000	ng	0.00
86) Perylene-d12	15.563	264	232393	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.504	112	89262	13.766	ng	-0.01
7) Phenol-d6	6.516	99	98417	12.608	ng	-0.02
23) Nitrobenzene-d5	7.451	82	56095	9.016	ng	-0.02
42) 2,4,6-Tribromophenol	10.722	330	17514	11.701	ng	-0.02
45) 2-Fluorobiphenyl	9.251	172	105192	10.467	ng	-0.02
79) Terphenyl-d14	13.004	244	118155	5.878	ng	-0.01
Target Compounds						Qvalue
49) Acenaphthylene	9.792	152	63978	4.901	ng	99
71) Phenanthrene	11.445	178	190375	16.501	ng	99
72) Anthracene	11.498	178	60106	5.105	ng	99
75) Fluoranthene	12.639	202	702164	65.134	ng	99
78) Pyrene	12.869	202	672592	26.250	ng	99
81) Benzo(a)anthracene	14.057	228	496244	27.056	ng	94
83) Chrysene	14.092	228	413333	25.080	ng	97
84) Bis(2-ethylhexyl)phtha...	14.039	149	25542	2.818	ng	100
87) Indeno(1,2,3-cd)pyrene	17.063	276	170851	9.793	ng	95
88) Benzo(b)fluoranthene	15.121	252	549137m	39.925	ng	
89) Benzo(k)fluoranthene	15.139	252	184200m	14.299	ng	
90) Benzo(a)pyrene	15.498	252	349273	26.941	ng	97
91) Dibenzo(a,h)anthracene	17.074	278	40836	2.886	ng	# 78
92) Benzo(g,h,i)perylene	17.521	276	161371	11.402	ng	99

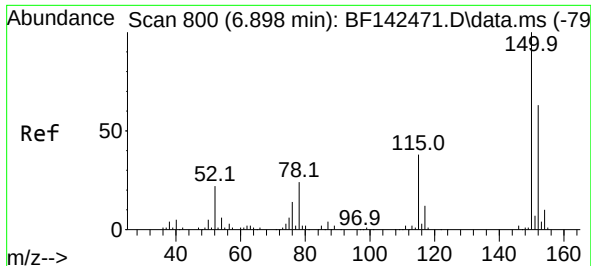
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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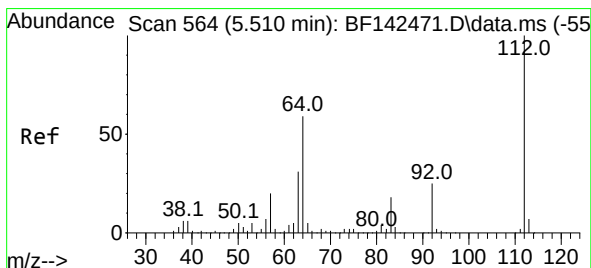
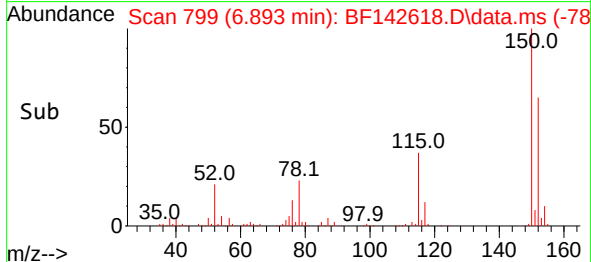
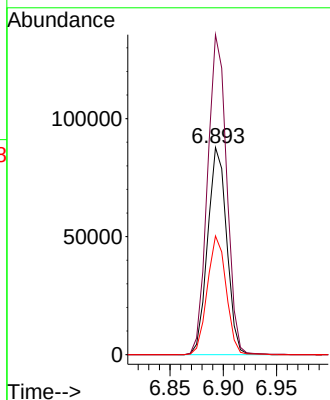
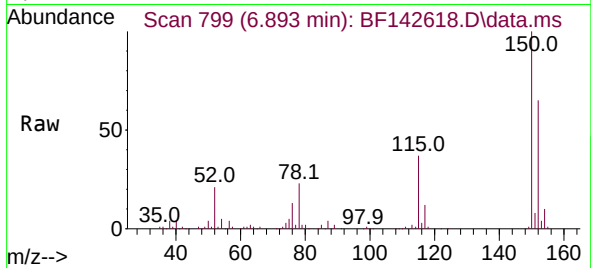




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.893 min Scan# 79
Delta R.T. -0.011 min
Lab File: BF142618.D
Acq: 04 Jun 2025 20:47

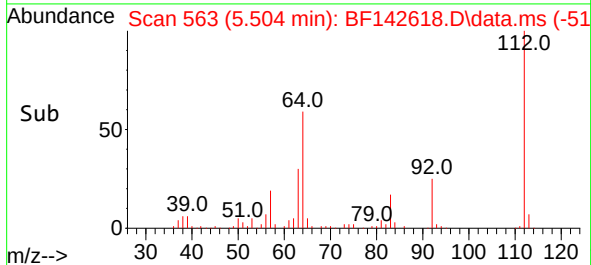
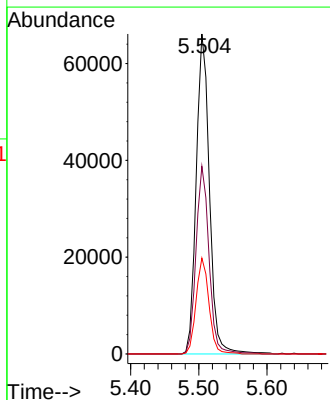
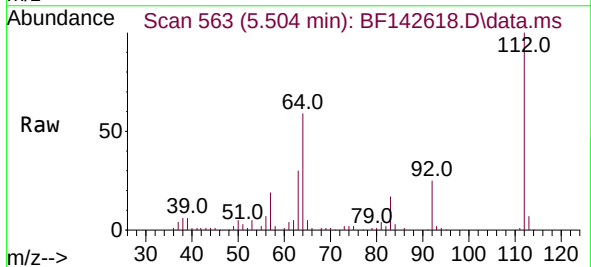
Instrument :
BNA_F
ClientSampleId :
OR-400-CF-402B-COMP-23

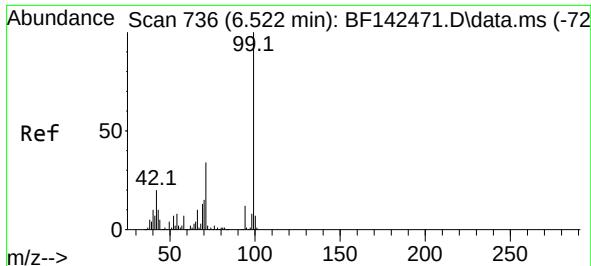
Tgt Ion:152 Resp: 109247
Ion Ratio Lower Upper
152 100
150 154.5 128.2 192.4
115 57.3 48.3 72.5



#5
2-Fluorophenol
Concen: 13.766 ng
RT: 5.504 min Scan# 563
Delta R.T. -0.012 min
Lab File: BF142618.D
Acq: 04 Jun 2025 20:47

Tgt Ion:112 Resp: 89262
Ion Ratio Lower Upper
112 100
64 58.6 47.5 71.3
63 29.9 24.9 37.3





#7

Phenol-d6

Concen: 12.608 ng

RT: 6.516 min Scan# 736

Delta R.T. -0.017 min

Lab File: BF142618.D

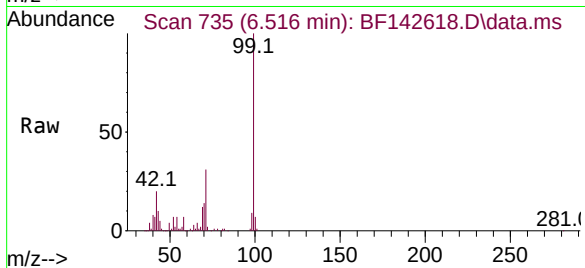
Acq: 04 Jun 2025 20:47

Instrument :

BNA_F

ClientSampleId :

OR-400-CF-402B-COMP-23



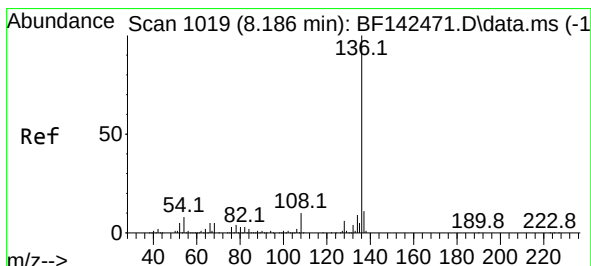
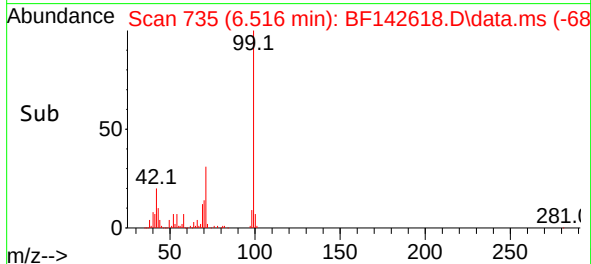
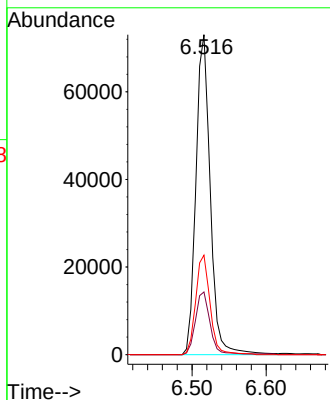
Tgt Ion: 99 Resp: 98417

Ion Ratio Lower Upper

99 100

42 19.6 16.2 24.2

71 31.1 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: BF142618.D

Acq: 04 Jun 2025 20:47

Tgt Ion: 136 Resp: 339260

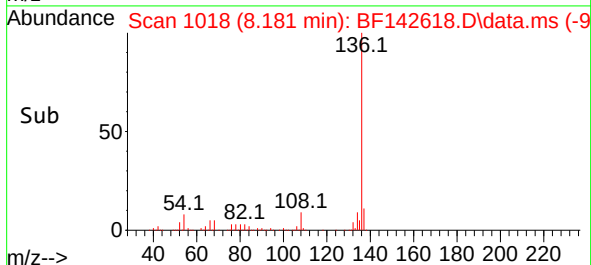
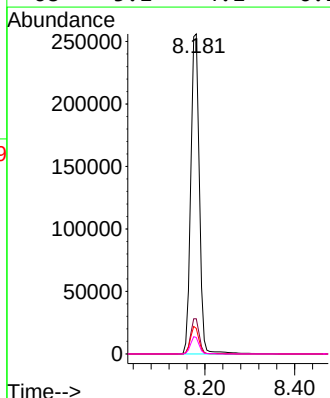
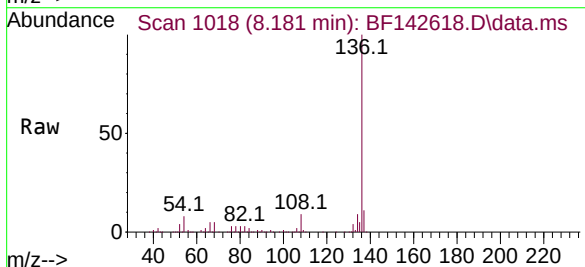
Ion Ratio Lower Upper

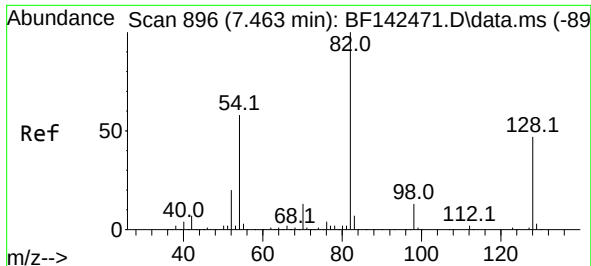
136 100

137 11.0 8.6 13.0

54 8.0 6.6 10.0

68 5.1 4.1 6.1

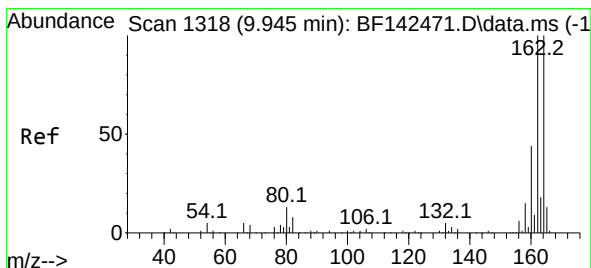
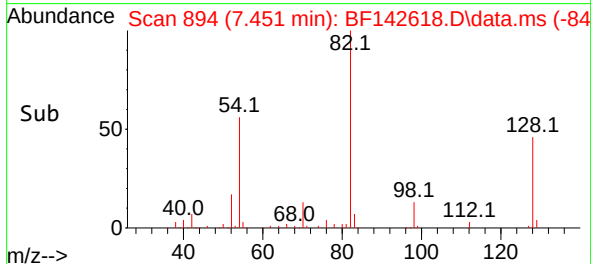
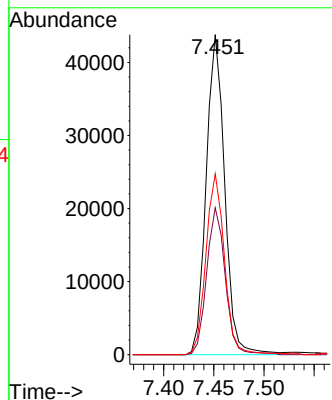
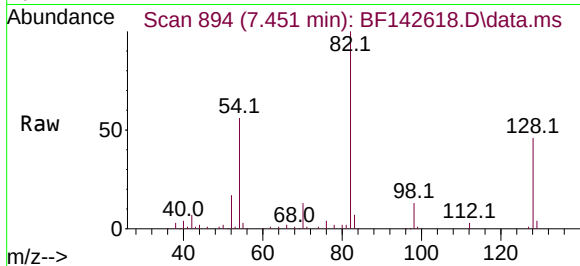




#23
Nitrobenzene-d5
Concen: 9.016 ng
RT: 7.451 min Scan# 89
Delta R.T. -0.023 min
Lab File: BF142618.D
Acq: 04 Jun 2025 20:47

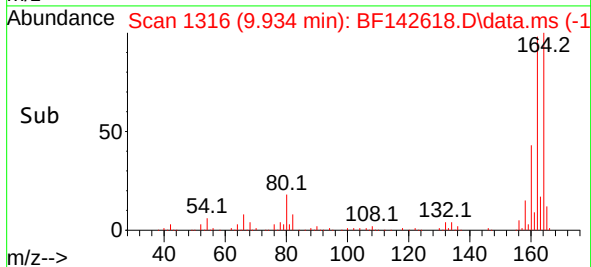
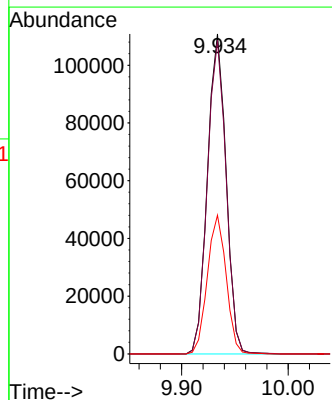
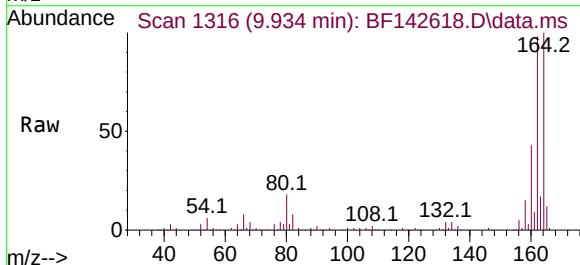
Instrument :
BNA_F
ClientSampleId :
OR-400-CF-402B-COMP-23

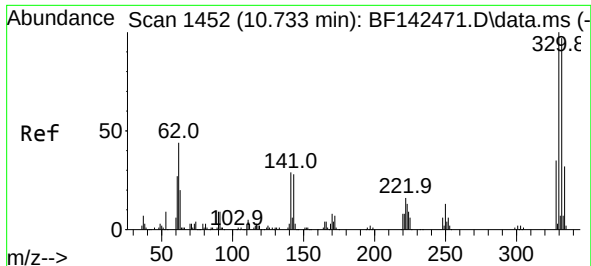
Tgt Ion: 82 Resp: 56095
Ion Ratio Lower Upper
82 100
128 45.9 37.4 56.2
54 56.5 46.6 70.0



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.934 min Scan# 1316
Delta R.T. -0.012 min
Lab File: BF142618.D
Acq: 04 Jun 2025 20:47

Tgt Ion:164 Resp: 134857
Ion Ratio Lower Upper
164 100
162 97.9 80.2 120.4
160 43.3 35.6 53.4





#42

2,4,6-Tribromophenol

Concen: 11.701 ng

RT: 10.722 min Scan# 1452

Delta R.T. -0.017 min

Lab File: BF142618.D

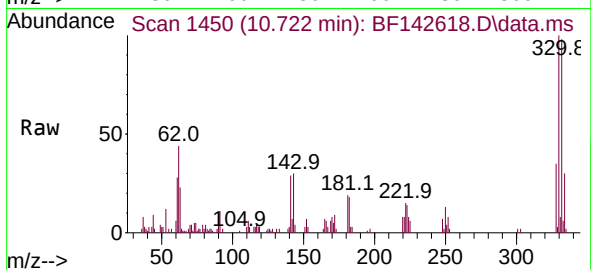
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Instrument :

BNA_F

ClientSampleId :

OR-400-CF-402B-COMP-23



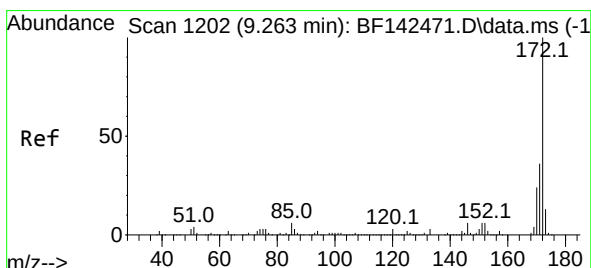
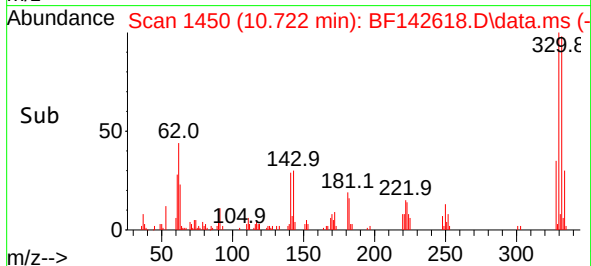
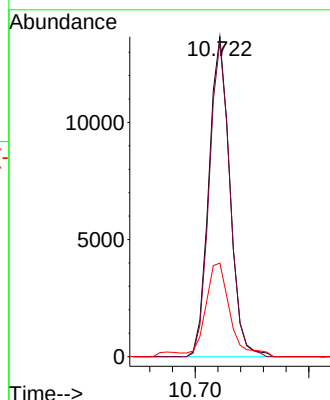
Tgt Ion:330 Resp: 17514

Ion Ratio Lower Upper

330 100

332 96.8 77.6 116.4

141 33.4 24.6 36.8



#45

2-Fluorobiphenyl

Concen: 10.467 ng

RT: 9.251 min Scan# 1200

Delta R.T. -0.017 min

Lab File: BF142618.D

Acq: 04 Jun 2025 20:47

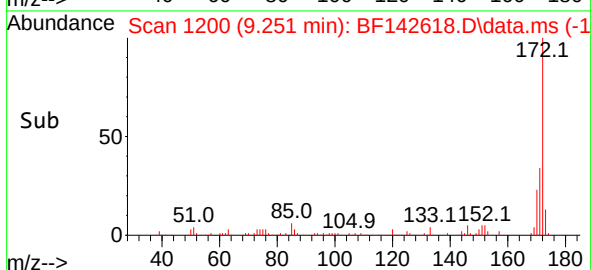
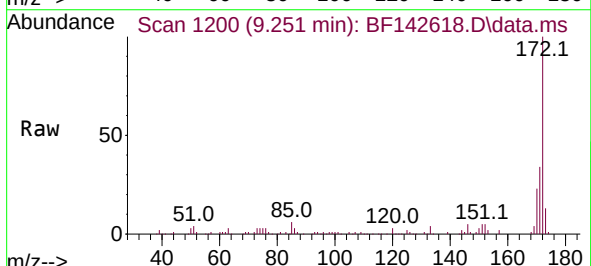
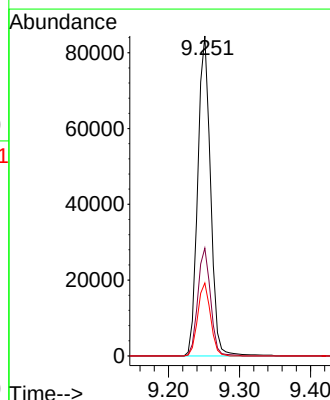
Tgt Ion:172 Resp: 105192

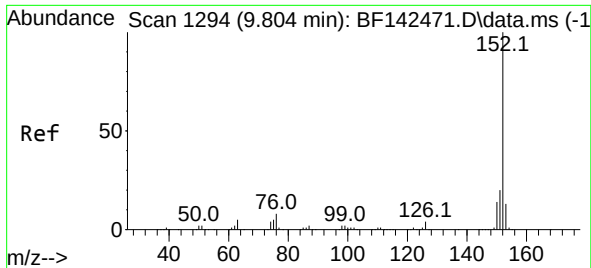
Ion Ratio Lower Upper

172 100

171 33.7 28.6 42.8

170 22.8 18.9 28.3

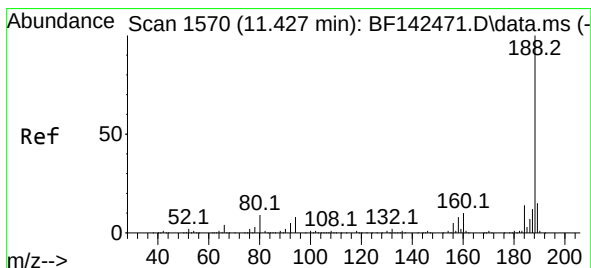
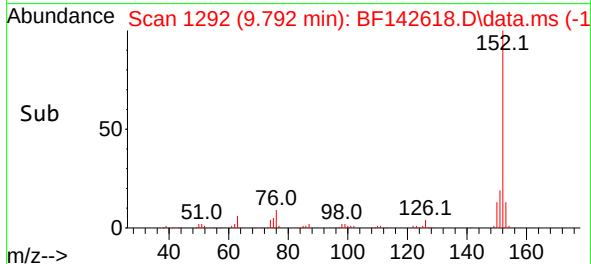
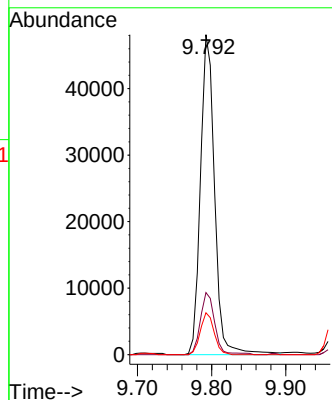
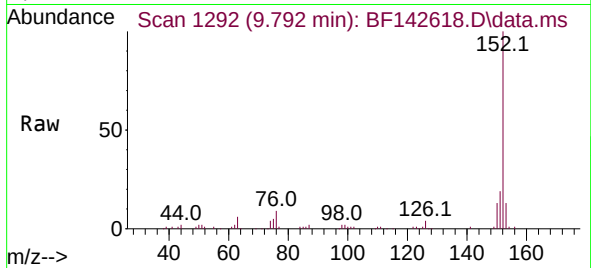




#49
Acenaphthylene
Concen: 4.901 ng
RT: 9.792 min Scan# 11
Delta R.T. -0.017 min
Lab File: BF142618.D
Acq: 04 Jun 2025 20:47

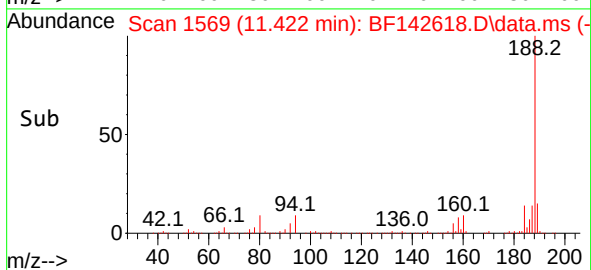
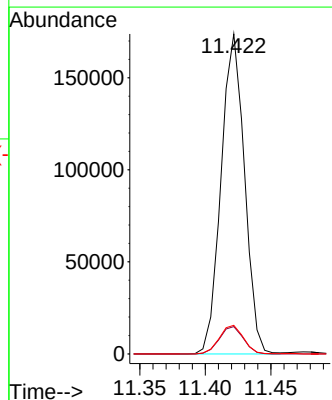
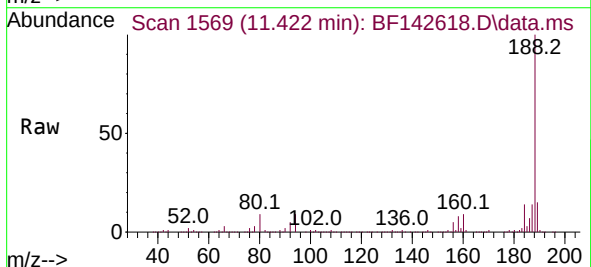
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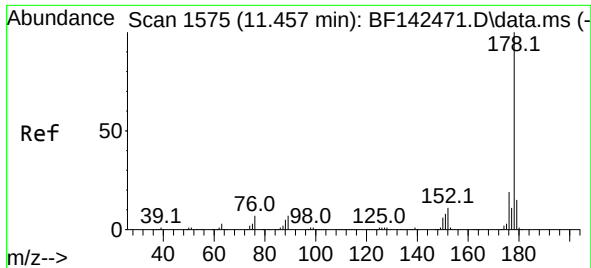
Tgt Ion:152	Resp: 63978
Ion Ratio	Lower Upper
152	100
151	19.4 15.8 23.8
153	13.1 10.6 15.8



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.422 min Scan# 1569
Delta R.T. -0.012 min
Lab File: BF142618.D
Acq: 04 Jun 2025 20:47

Tgt Ion:188	Resp: 215883
Ion Ratio	Lower Upper
188	100
94	8.5 6.6 10.0
80	8.9 7.4 11.0

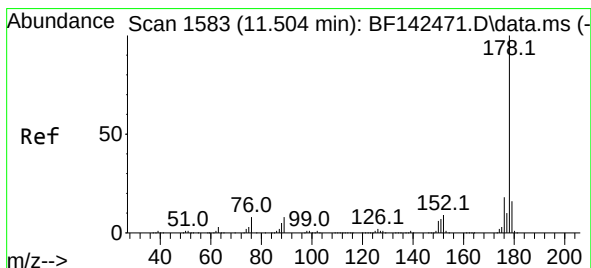
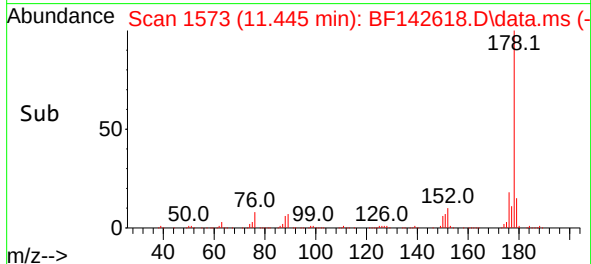
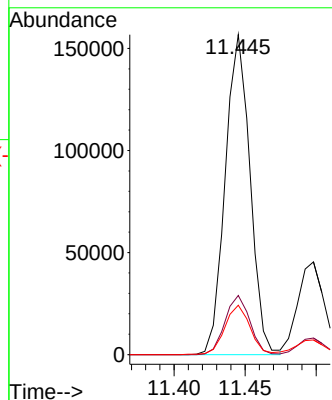
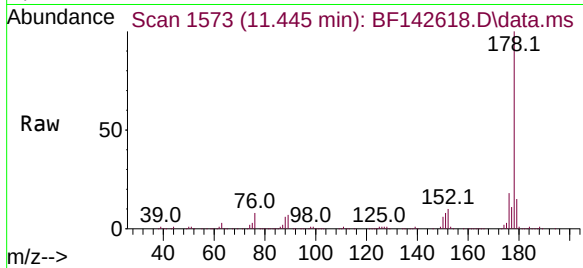




#71
Phenanthrene
Concen: 16.501 ng
RT: 11.445 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF142618.D
Acq: 04 Jun 2025 20:47

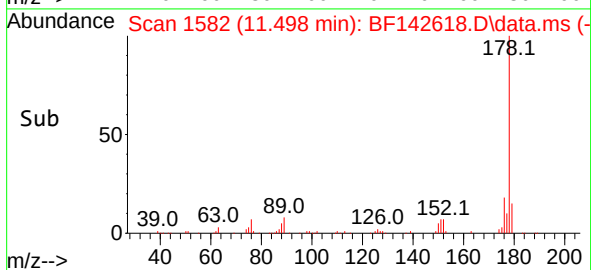
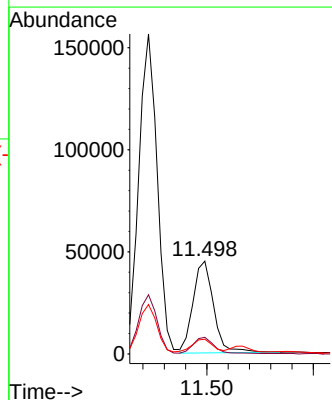
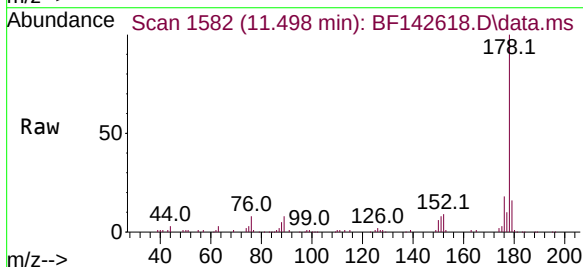
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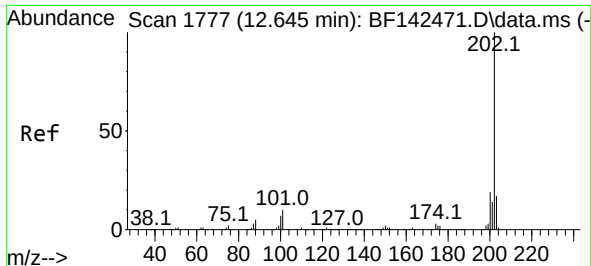
Tgt Ion:178 Resp: 190375
Ion Ratio Lower Upper
178 100
176 18.5 15.4 23.0
179 15.4 12.3 18.5



#72
Anthracene
Concen: 5.105 ng
RT: 11.498 min Scan# 1582
Delta R.T. -0.012 min
Lab File: BF142618.D
Acq: 04 Jun 2025 20:47

Tgt Ion:178 Resp: 60106
Ion Ratio Lower Upper
178 100
176 18.0 14.6 21.8
179 15.8 12.4 18.6

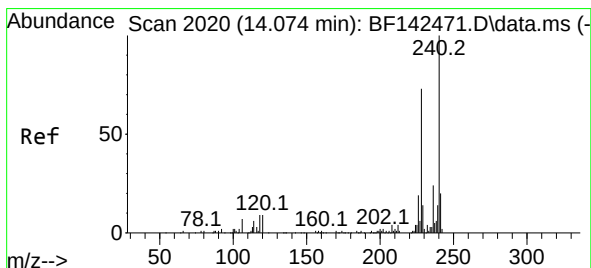
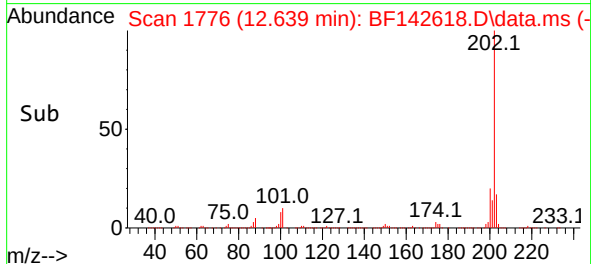
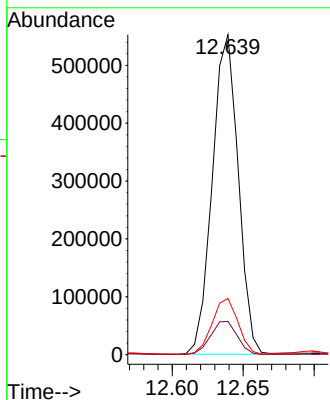
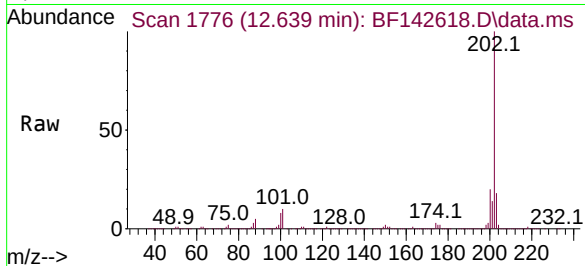




#75
Fluoranthene
Concen: 65.134 ng
RT: 12.639 min Scan# 1776
Delta R.T. -0.006 min
Lab File: BF142618.D
Acq: 04 Jun 2025 20:47

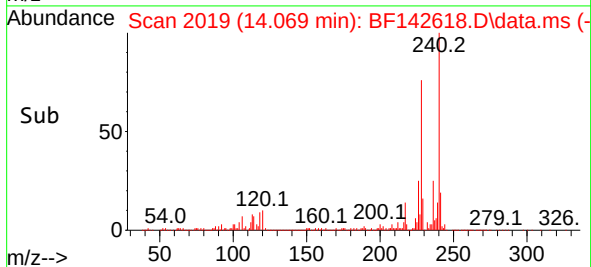
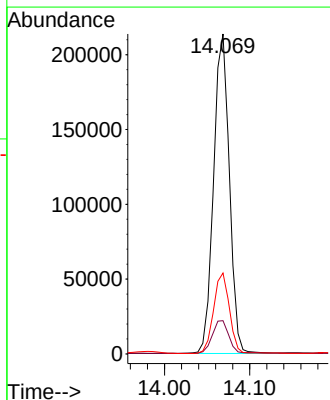
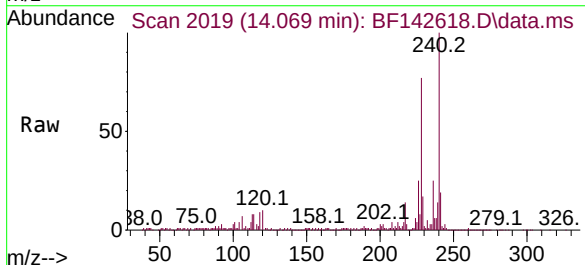
Instrument :
BNA_F
ClientSampleId :
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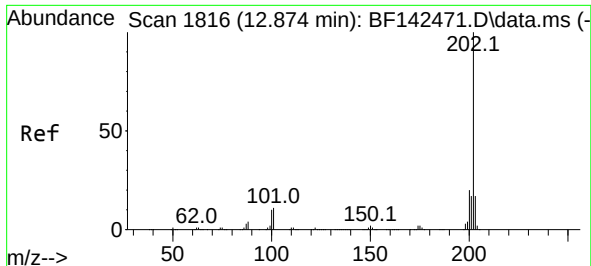
Tgt Ion:202 Resp: 702164
Ion Ratio Lower Upper
202 100
101 10.4 0.0 29.6
203 17.5 0.0 37.2



#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.069 min Scan# 2019
Delta R.T. -0.006 min
Lab File: BF142618.D
Acq: 04 Jun 2025 20:47

Tgt Ion:240 Resp: 274672
Ion Ratio Lower Upper
240 100
120 10.4 7.5 11.3
236 25.3 19.6 29.4

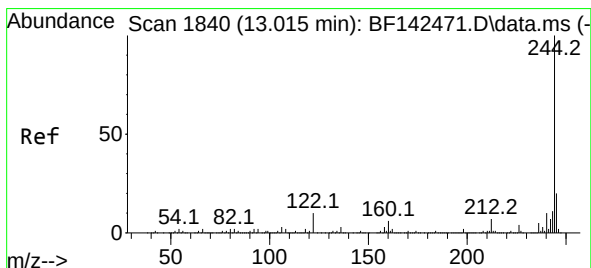
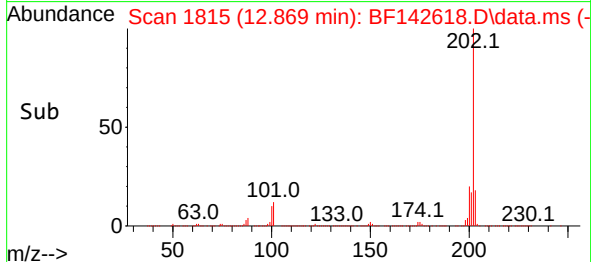
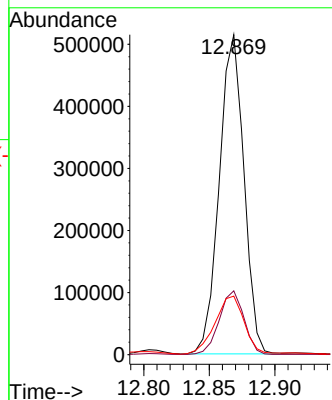
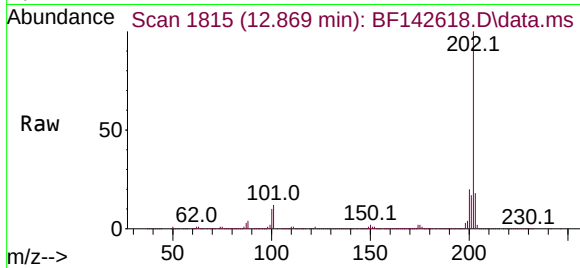




#78
Pyrene
Concen: 26.250 ng
RT: 12.869 min Scan# 1816
Delta R.T. -0.006 min
Lab File: BF142618.D
Acq: 04 Jun 2025 20:47

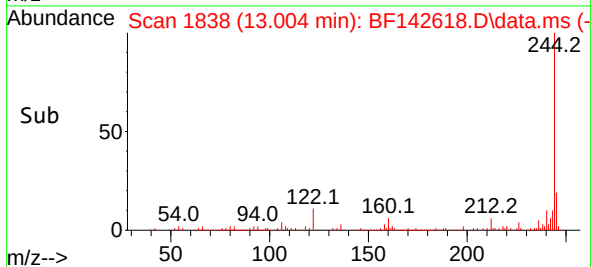
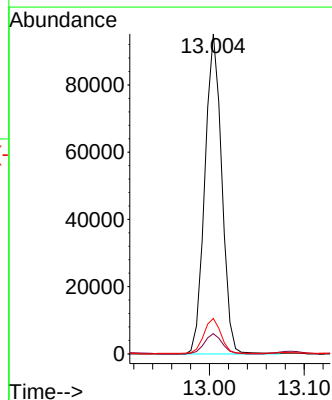
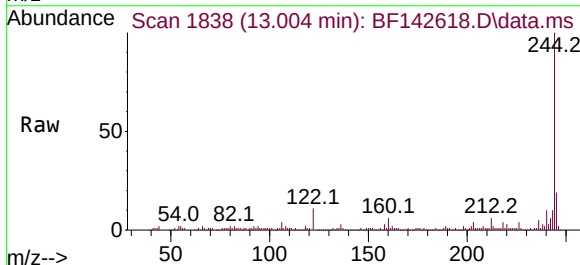
Instrument :
BNA_F
ClientSampleId :
OR-400-CF-402B-COMP-23

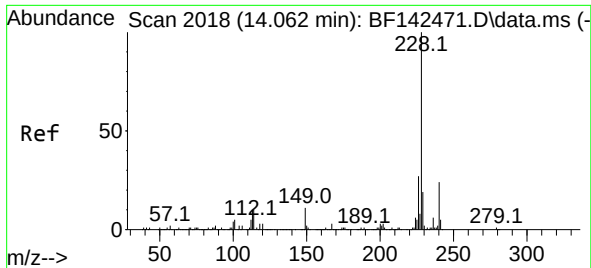
Tgt Ion:202 Resp: 672592
Ion Ratio Lower Upper
202 100
200 19.9 16.1 24.1
203 18.3 13.9 20.9



#79
Terphenyl-d14
Concen: 5.878 ng
RT: 13.004 min Scan# 1838
Delta R.T. -0.012 min
Lab File: BF142618.D
Acq: 04 Jun 2025 20:47

Tgt Ion:244 Resp: 118155
Ion Ratio Lower Upper
244 100
212 6.3 5.3 7.9
122 11.1 8.2 12.2

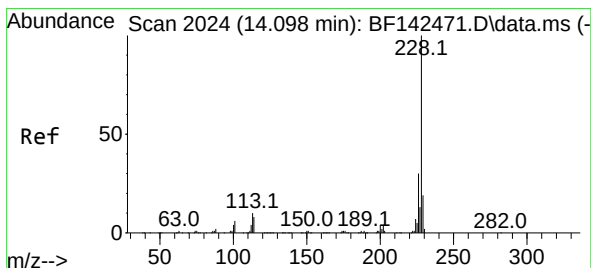
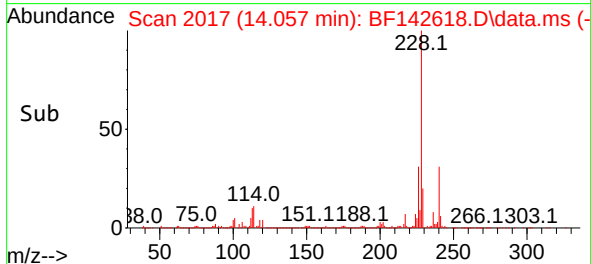
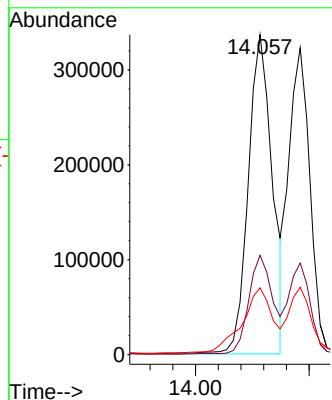
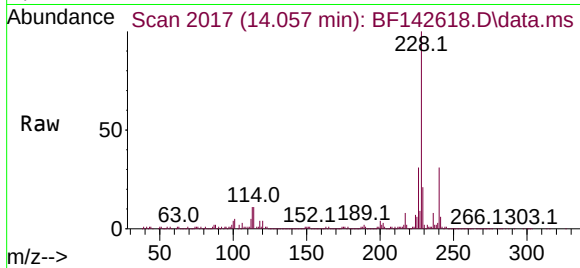




#81
Benzo(a)anthracene
Concen: 27.056 ng
RT: 14.057 min Scan# 20
Delta R.T. -0.006 min
Lab File: BF142618.D
Acq: 04 Jun 2025 20:47

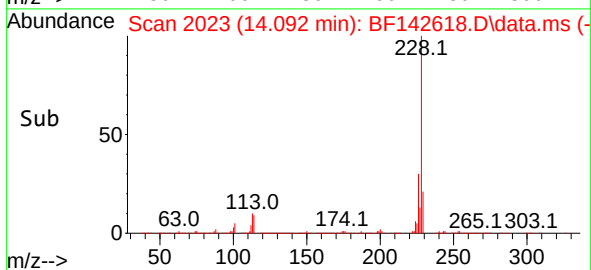
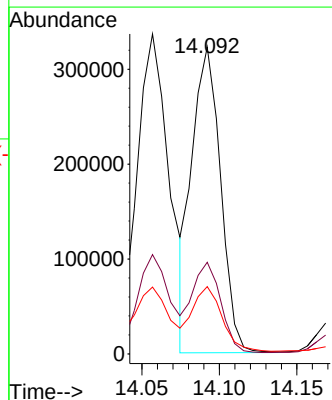
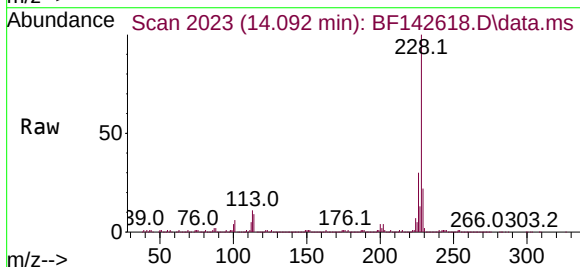
Instrument :
BNA_F
ClientSampleId :
OR-400-CF-402B-COMP-23

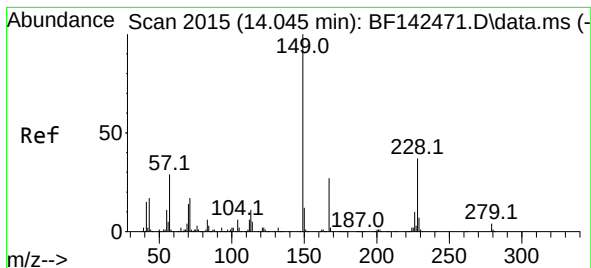
Tgt Ion:228 Resp: 496244
Ion Ratio Lower Upper
228 100
226 31.0 21.2 31.8
229 20.9 15.5 23.3



#83
Chrysene
Concen: 25.080 ng
RT: 14.092 min Scan# 2023
Delta R.T. -0.012 min
Lab File: BF142618.D
Acq: 04 Jun 2025 20:47

Tgt Ion:228 Resp: 413333
Ion Ratio Lower Upper
228 100
226 29.9 23.8 35.6
229 21.9 15.4 23.2





#84

Bis(2-ethylhexyl)phthalate

Concen: 2.818 ng

RT: 14.039 min Scan# 2015

Delta R.T. -0.012 min

Lab File: BF142618.D

Acq: 04 Jun 2025 20:47

Instrument :

BNA_F

ClientSampleId :

OR-400-CF-402B-COMP-23

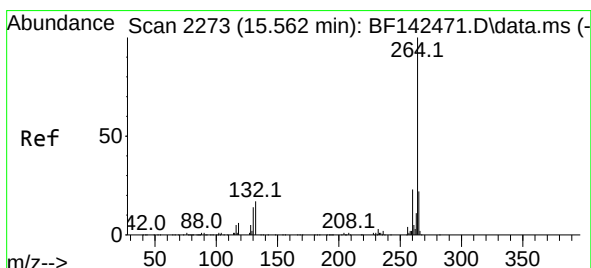
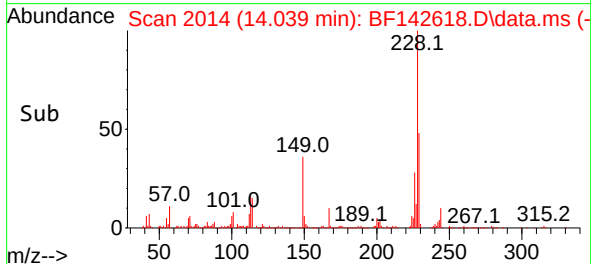
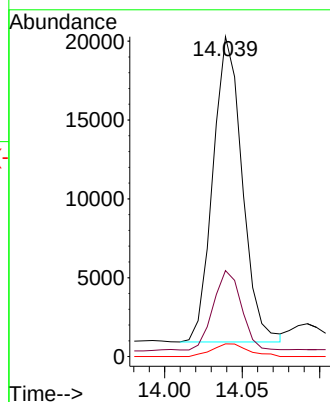
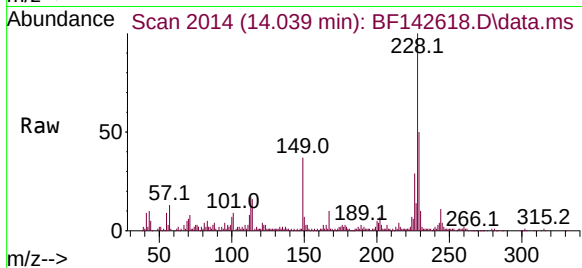
Tgt Ion:149 Resp: 25542

Ion Ratio Lower Upper

149 100

167 26.9 21.5 32.3

279 4.0 3.2 4.8



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.563 min Scan# 2273

Delta R.T. -0.006 min

Lab File: BF142618.D

Acq: 04 Jun 2025 20:47

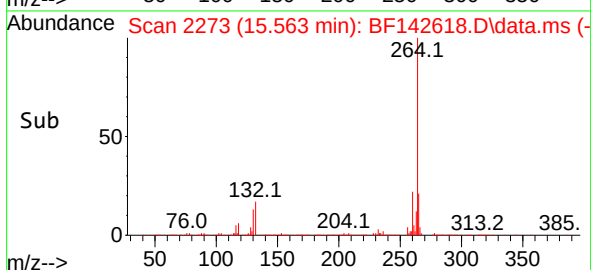
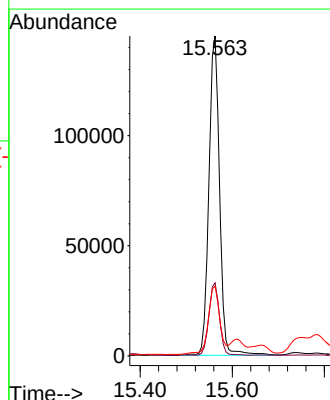
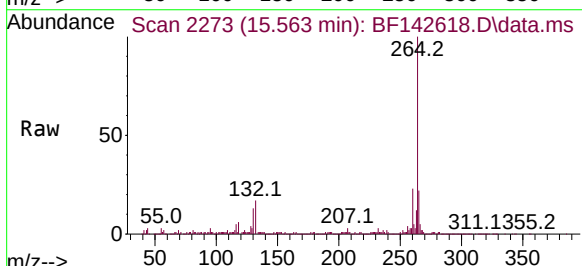
Tgt Ion:264 Resp: 232393

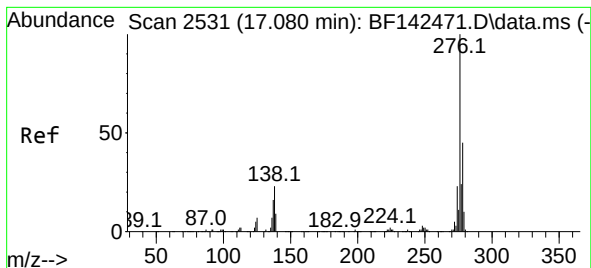
Ion Ratio Lower Upper

264 100

260 22.8 18.6 28.0

265 21.8 17.7 26.5





#87

Indeno(1,2,3-cd)pyrene

Concen: 9.793 ng

RT: 17.063 min Scan# 2198

Delta R.T. -0.029 min

Lab File: BF142618.D

Acq: 04 Jun 2025 20:47

Instrument :

BNA_F

ClientSampleId :

OR-400-CF-402B-COMP-23

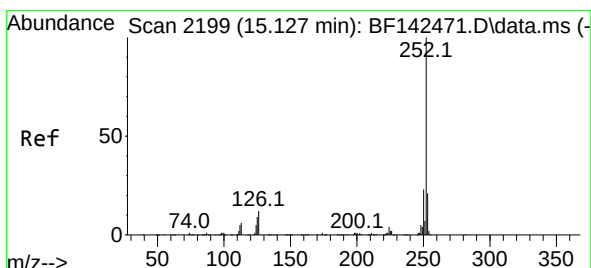
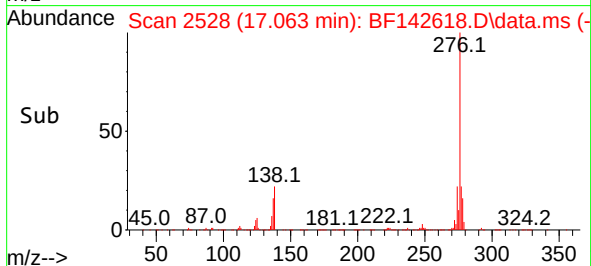
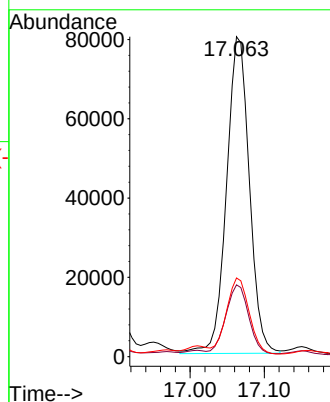
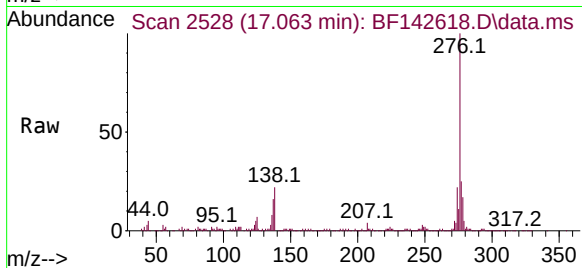
Tgt Ion:276 Resp: 170851

Ion Ratio Lower Upper

276 100

138 21.6 19.9 29.9

277 23.8 20.2 30.2



#88

Benzo(b)fluoranthene

Concen: 39.925 ng m

RT: 15.121 min Scan# 2198

Delta R.T. -0.006 min

Lab File: BF142618.D

Acq: 04 Jun 2025 20:47

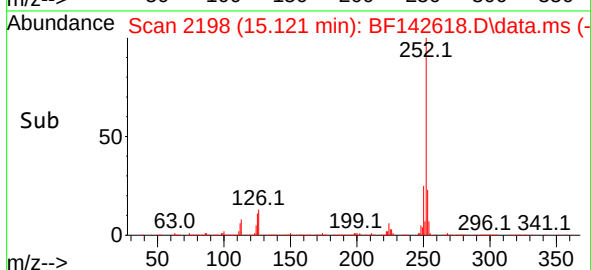
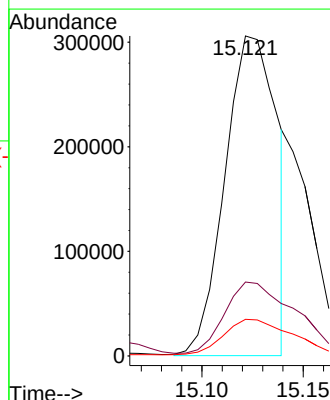
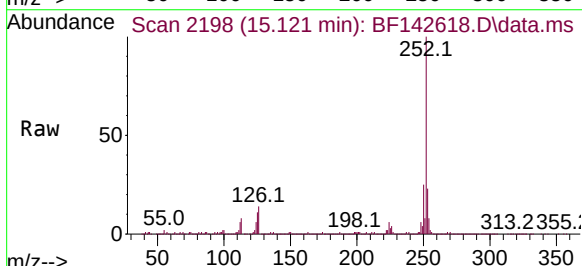
Tgt Ion:252 Resp: 549137

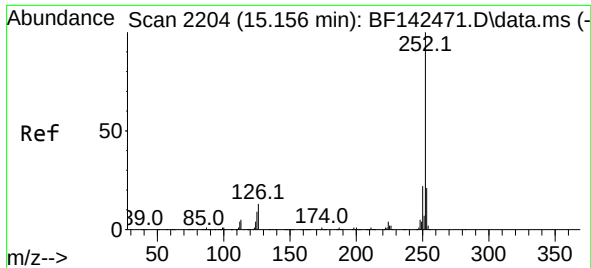
Ion Ratio Lower Upper

252 100

253 23.1 17.0 25.4

125 11.4 7.4 11.0#





#89

Benzo(k)fluoranthene

Concen: 14.299 ng m

RT: 15.139 min Scan# 21

Delta R.T. -0.023 min

Lab File: BF142618.D

Acq: 04 Jun 2025 20:47

Instrument :

BNA_F

ClientSampleId :

OR-400-CF-402B-COMP-23

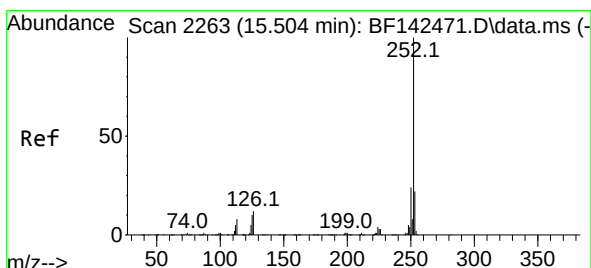
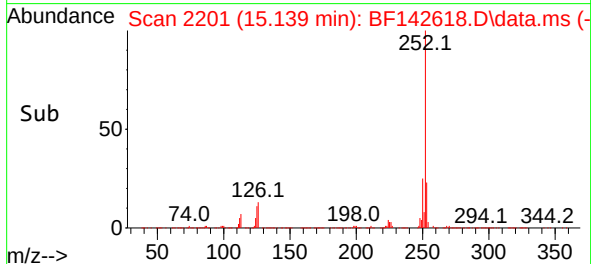
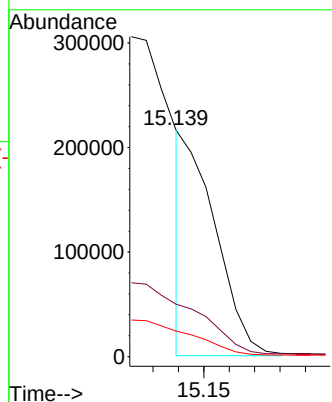
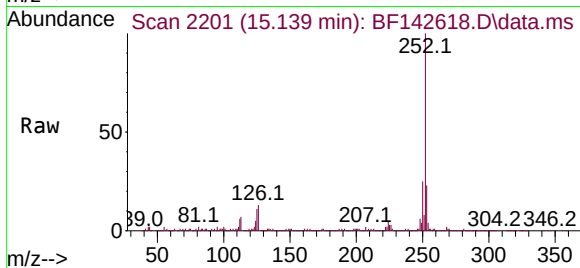
Tgt Ion:252 Resp: 184200

Ion Ratio Lower Upper

252 100

253 23.2 17.0 25.4

125 11.3 7.3 10.9#



#90

Benzo(a)pyrene

Concen: 26.941 ng

RT: 15.498 min Scan# 2262

Delta R.T. -0.012 min

Lab File: BF142618.D

Acq: 04 Jun 2025 20:47

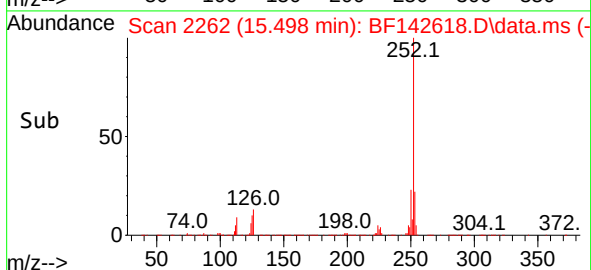
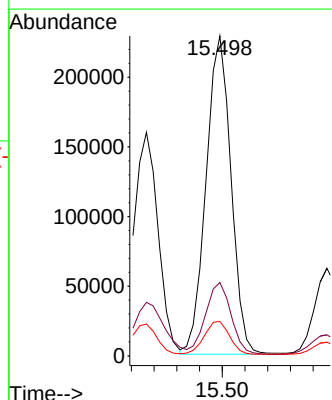
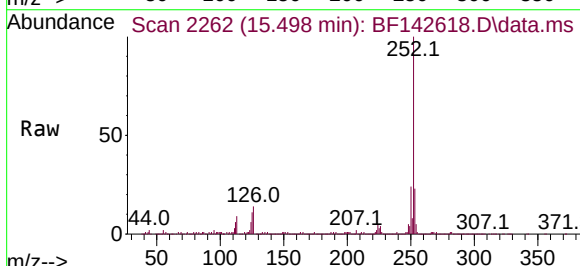
Tgt Ion:252 Resp: 349273

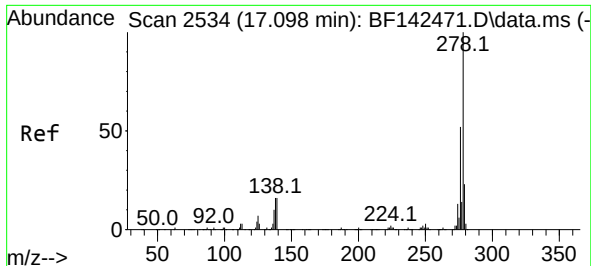
Ion Ratio Lower Upper

252 100

253 23.0 17.4 26.0

125 10.8 7.9 11.9





#91

Dibenzo(a,h)anthracene

Concen: 2.886 ng

RT: 17.074 min Scan# 21

Delta R.T. -0.041 min

Lab File: BF142618.D

Acq: 04 Jun 2025 20:47

Instrument :

BNA_F

ClientSampleId :

OR-400-CF-402B-COMP-23

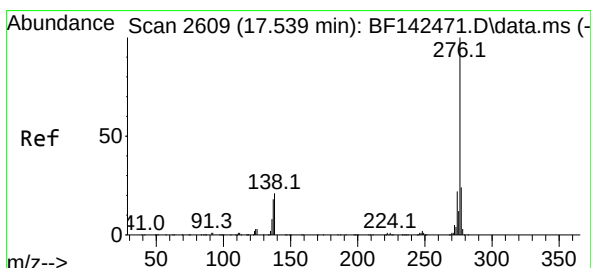
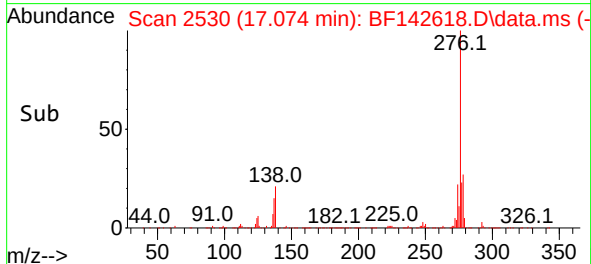
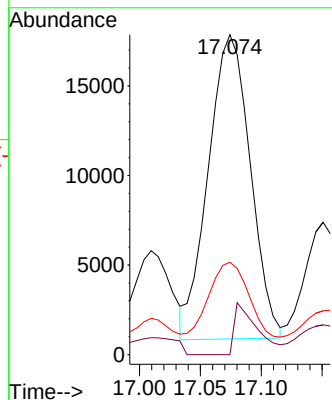
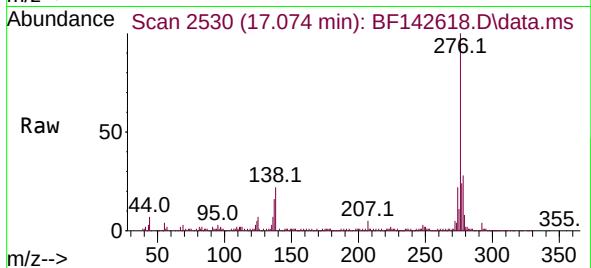
Tgt Ion:278 Resp: 40836

Ion Ratio Lower Upper

278 100

139 0.0 12.8 19.2#

279 28.9 18.6 28.0#



#92

Benzo(g,h,i)perylene

Concen: 11.402 ng

RT: 17.521 min Scan# 2606

Delta R.T. -0.035 min

Lab File: BF142618.D

Acq: 04 Jun 2025 20:47

Tgt Ion:276 Resp: 161371

Ion Ratio Lower Upper

276 100

277 24.1 19.2 28.8

138 22.4 16.8 25.2

