

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF092925\
 Data File : BF143827.D
 Acq On : 29 Sep 2025 17:42
 Operator : RC/JU
 Sample : Q3231-13
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 WC-4

Quant Time: Sep 29 18:11:26 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF092325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Sep 24 05:00:00 2025
 Response via : Initial Calibration

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

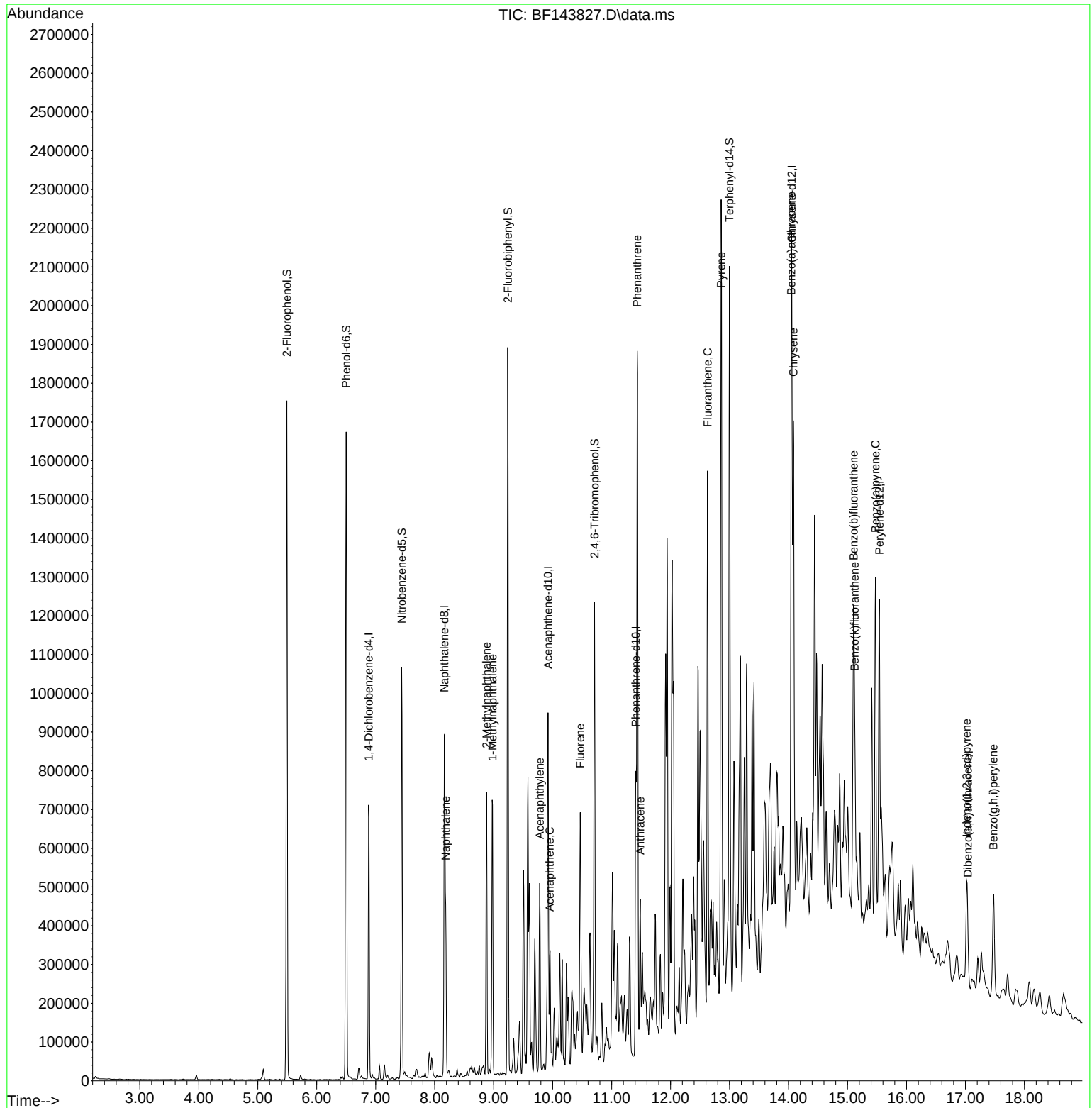
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.881	152	145973	20.000	ng	0.00
21) Naphthalene-d8	8.163	136	542293	20.000	ng	0.00
39) Acenaphthene-d10	9.922	164	266162	20.000	ng	0.00
64) Phenanthrene-d10	11.410	188	372415	20.000	ng	0.00
76) Chrysene-d12	14.057	240	479462	20.000	ng	0.00
86) Perylene-d12	15.539	264	604628	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.493	112	594777	66.200	ng	0.00
7) Phenol-d6	6.499	99	723604	69.704	ng	-0.01
23) Nitrobenzene-d5	7.440	82	413320	46.654	ng	-0.01
42) 2,4,6-Tribromophenol	10.710	330	237588	60.287	ng	0.00
45) 2-Fluorobiphenyl	9.240	172	815436	47.809	ng	0.00
79) Terphenyl-d14	12.998	244	978671	41.513	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.187	128	232697	8.964	ng	100
37) 2-Methylnaphthalene	8.881	142	275659	16.653	ng	100
38) 1-Methylnaphthalene	8.981	142	264574	16.698	ng	100
49) Acenaphthylene	9.781	152	175977	8.242	ng	# 95
52) Acenaphthene	9.951	154	75153	5.349	ng	95
58) Fluorene	10.469	166	251620	17.036	ng	97
71) Phenanthrene	11.433	178	998071	52.201	ng	99
72) Anthracene	11.486	178	204755	10.676	ng	99
75) Fluoranthene	12.628	202	666985	34.684	ng	98
78) Pyrene	12.857	202	1236899	52.472	ng	98
81) Benzo(a)anthracene	14.045	228	678591	26.345	ng	# 87
83) Chrysene	14.080	228	719218	30.858	ng	# 93
87) Indeno(1,2,3-cd)pyrene	17.021	276	236079	5.146	ng	99
88) Benzo(b)fluoranthene	15.104	252	659301m	21.412	ng	
89) Benzo(k)fluoranthene	15.121	252	204858m	6.622	ng	
90) Benzo(a)pyrene	15.474	252	639966	22.112	ng	97
91) Dibenzo(a,h)anthracene	17.039	278	77889	2.076	ng	# 77
92) Benzo(g,h,i)perylene	17.474	276	280007	7.741	ng	98

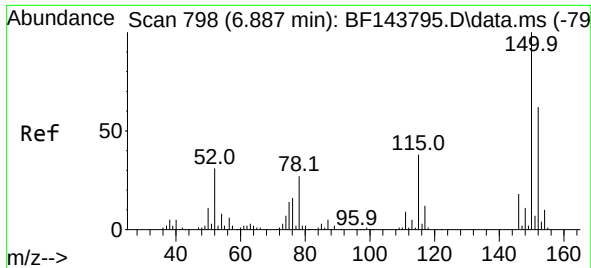
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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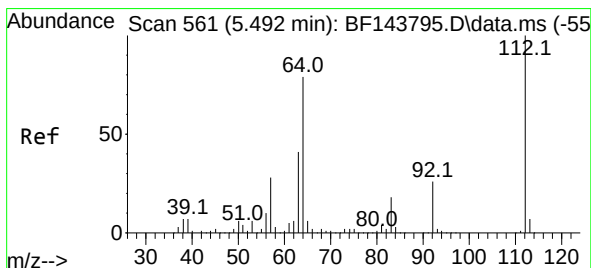
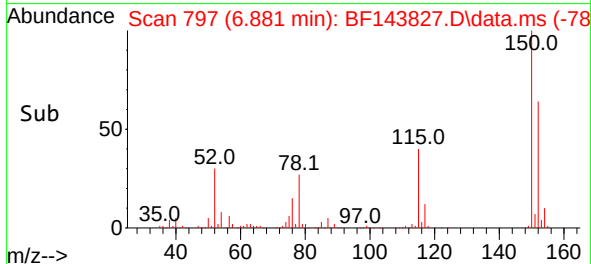
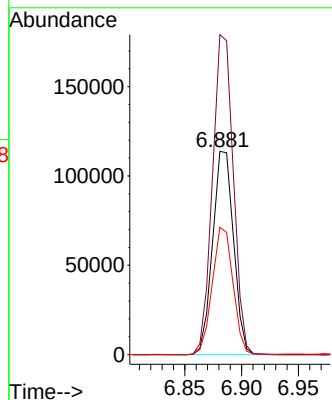
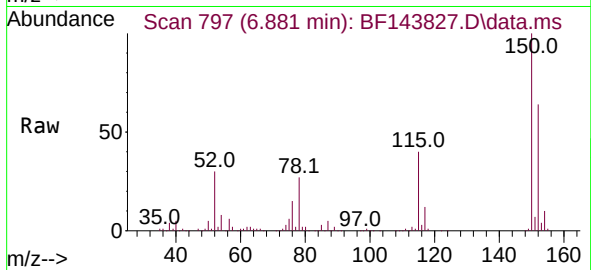




#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.881 min Scan# 798
 Delta R.T. -0.006 min
 Lab File: BF143827.D
 Acq: 29 Sep 2025 17:42

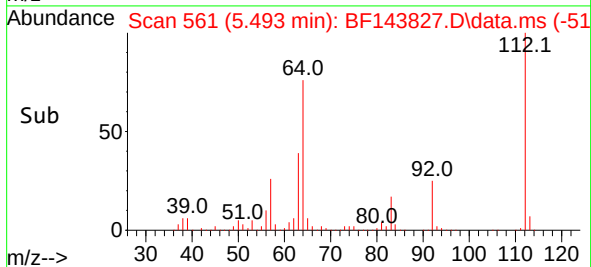
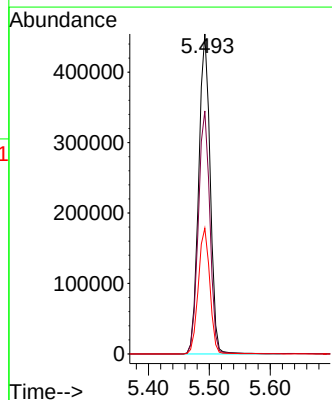
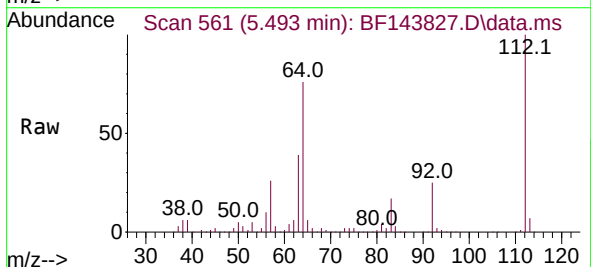
Instrument :
 BNA_F
 ClientSampleId :
 WC-4

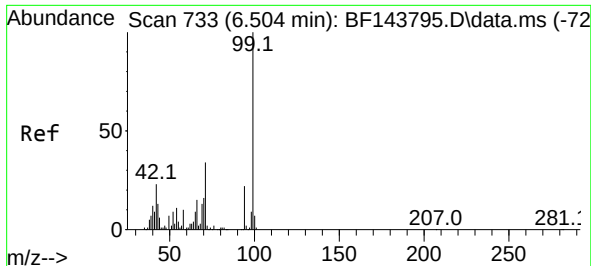
Tgt Ion:152 Resp: 145973
 Ion Ratio Lower Upper
 152 100
 150 157.4 129.6 194.4
 115 62.6 49.0 73.4



#5
 2-Fluorophenol
 Concen: 66.200 ng
 RT: 5.493 min Scan# 561
 Delta R.T. -0.005 min
 Lab File: BF143827.D
 Acq: 29 Sep 2025 17:42

Tgt Ion:112 Resp: 594777
 Ion Ratio Lower Upper
 112 100
 64 75.9 63.0 94.4
 63 39.3 32.6 49.0

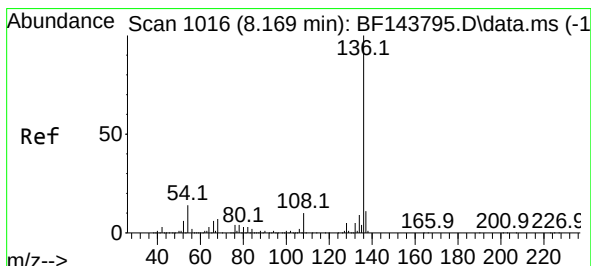
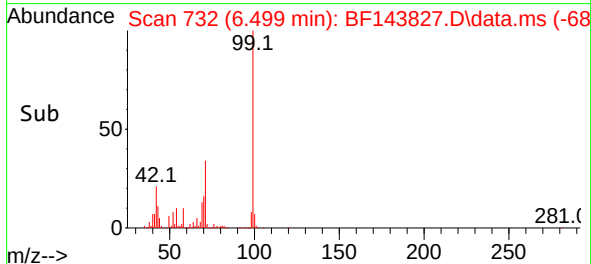
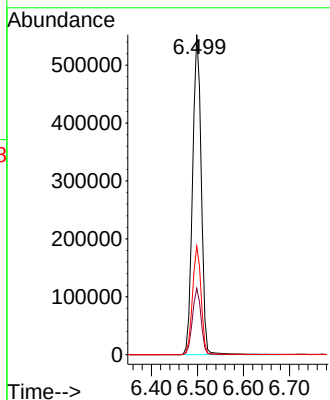
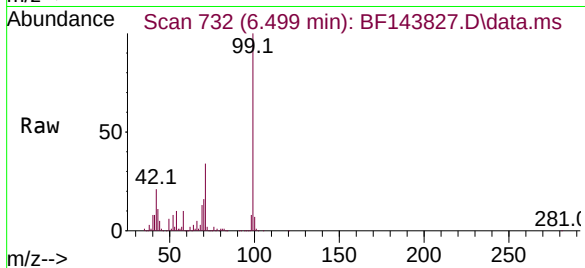




#7
Phenol-d6
Concen: 69.704 ng
RT: 6.499 min Scan# 733
Delta R.T. -0.011 min
Lab File: BF143827.D
Acq: 29 Sep 2025 17:42

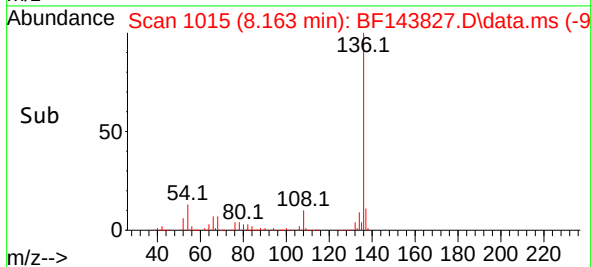
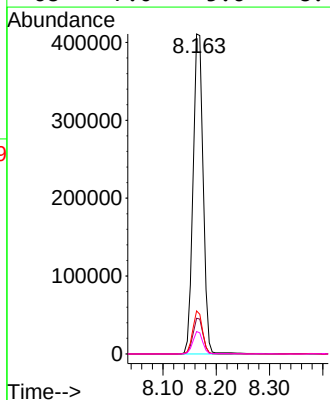
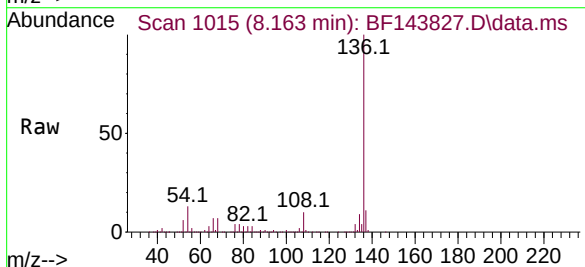
Instrument :
BNA_F
ClientSampleId :
WC-4

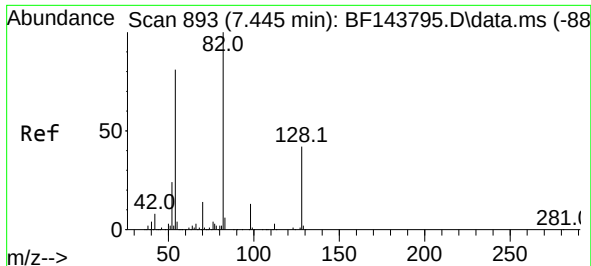
Tgt Ion:	99	Resp:	723604
Ion	Ratio	Lower	Upper
99	100		
42	20.7	18.6	28.0
71	33.8	27.0	40.4



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.163 min Scan# 1015
Delta R.T. -0.006 min
Lab File: BF143827.D
Acq: 29 Sep 2025 17:42

Tgt Ion:	136	Resp:	542293
Ion	Ratio	Lower	Upper
136	100		
137	11.1	9.0	13.4
54	13.4	11.2	16.8
68	7.0	5.6	8.4





#23

Nitrobenzene-d5

Concen: 46.654 ng

RT: 7.440 min Scan# 89

Delta R.T. -0.011 min

Lab File: BF143827.D

Acq: 29 Sep 2025 17:42

Instrument :

BNA_F

ClientSampleId :

WC-4

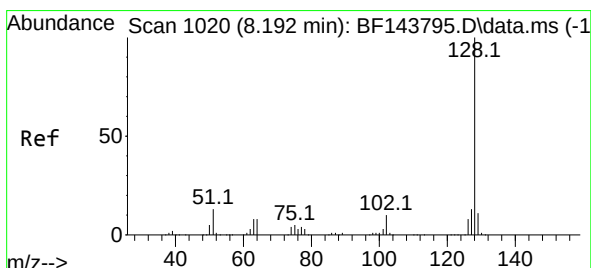
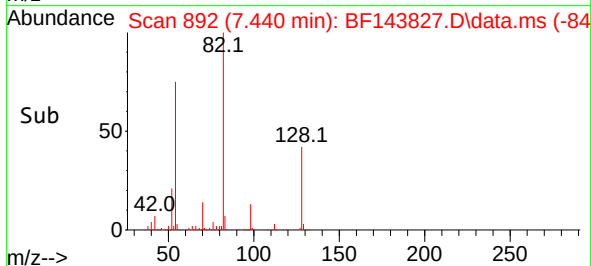
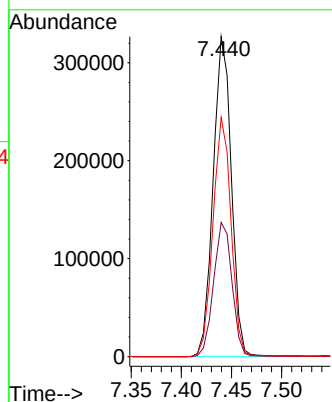
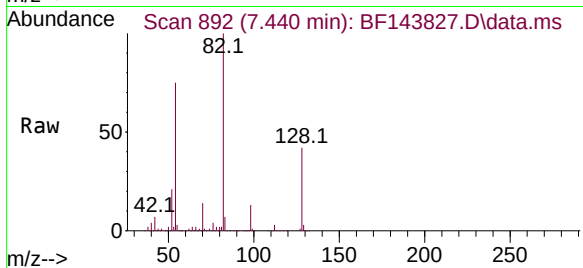
Tgt Ion: 82 Resp: 413320

Ion Ratio Lower Upper

82 100

128 41.9 33.3 49.9

54 74.7 64.2 96.4



#31

Naphthalene

Concen: 8.964 ng

RT: 8.187 min Scan# 1019

Delta R.T. -0.006 min

Lab File: BF143827.D

Acq: 29 Sep 2025 17:42

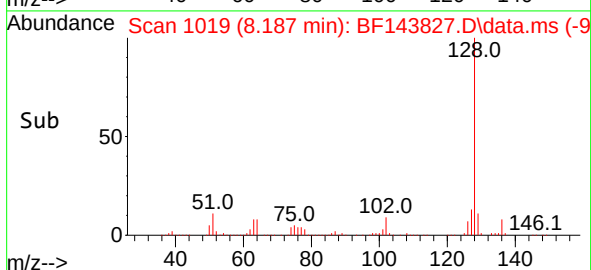
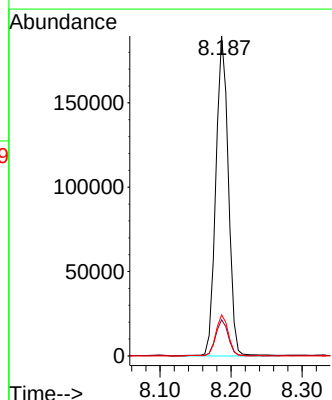
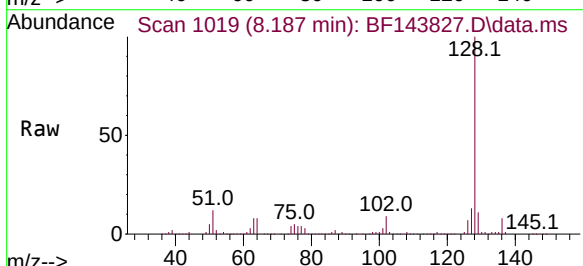
Tgt Ion: 128 Resp: 232697

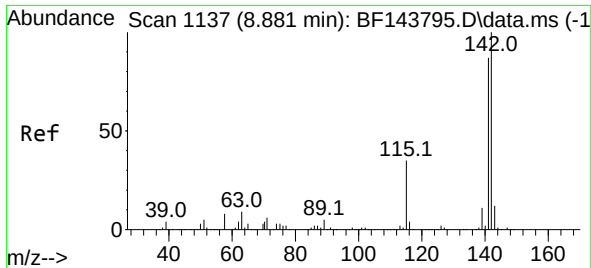
Ion Ratio Lower Upper

128 100

129 11.3 8.8 13.2

127 12.8 10.2 15.4

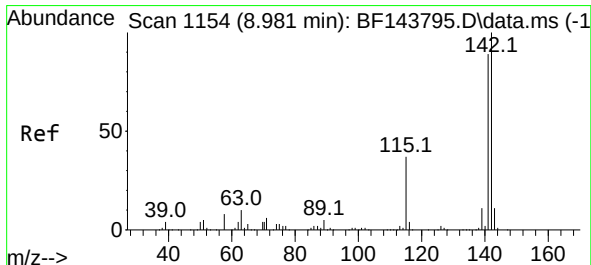
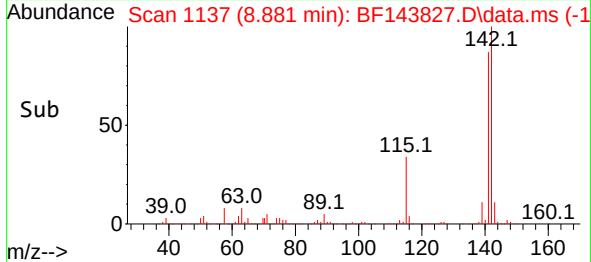
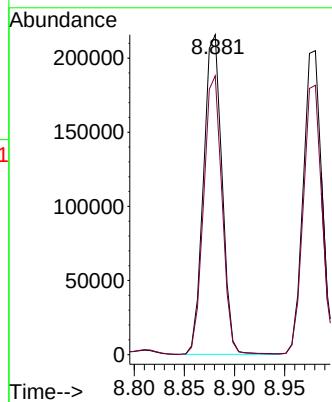
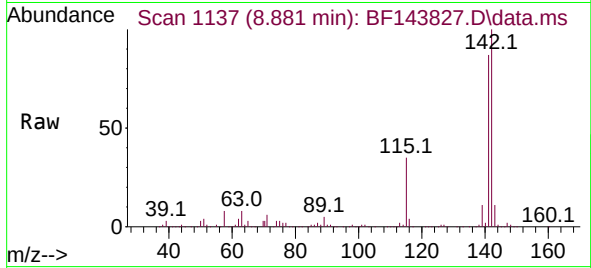




#37
2-Methylnaphthalene
Concen: 16.653 ng
RT: 8.881 min Scan# 1137
Delta R.T. 0.000 min
Lab File: BF143827.D
Acq: 29 Sep 2025 17:42

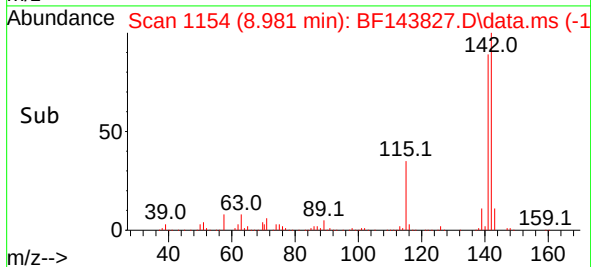
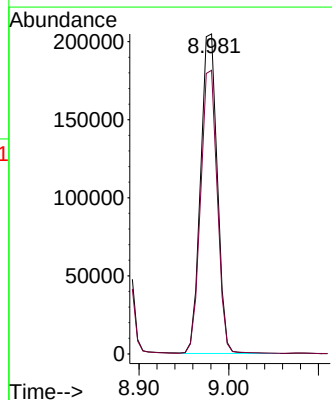
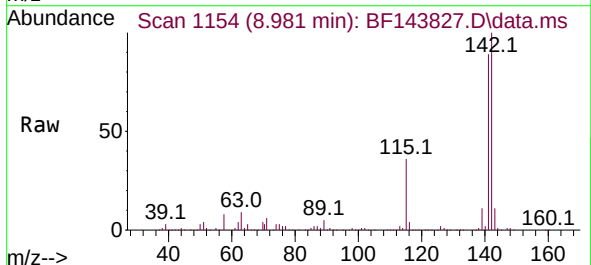
Instrument :
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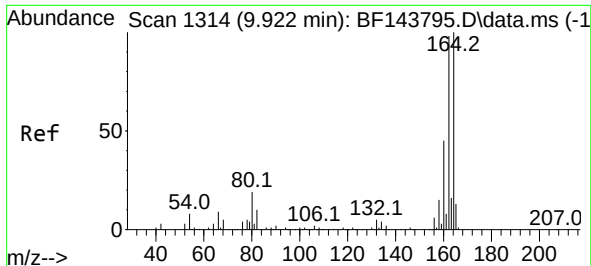
Tgt Ion:142 Resp: 275659
Ion Ratio Lower Upper
142 100
141 87.1 69.4 104.0



#38
1-Methylnaphthalene
Concen: 16.698 ng
RT: 8.981 min Scan# 1154
Delta R.T. 0.000 min
Lab File: BF143827.D
Acq: 29 Sep 2025 17:42

Tgt Ion:142 Resp: 264574
Ion Ratio Lower Upper
142 100
141 88.6 71.1 106.7

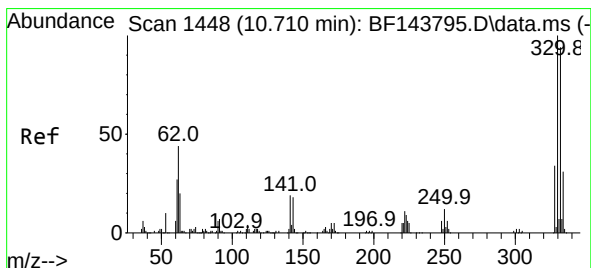
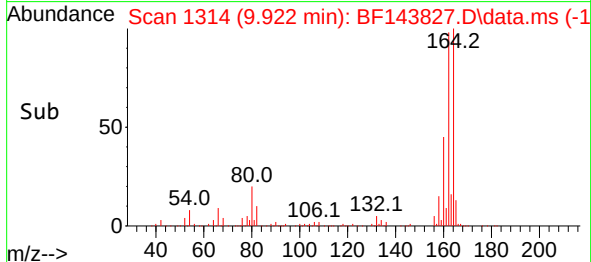
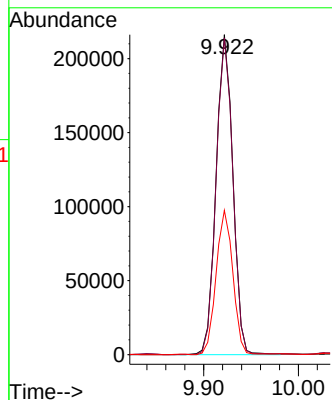
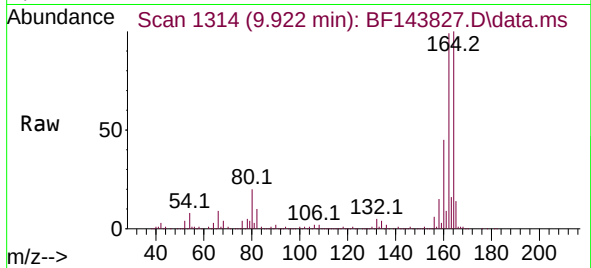




#39
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.922 min Scan# 1314
 Delta R.T. -0.006 min
 Lab File: BF143827.D
 Acq: 29 Sep 2025 17:42

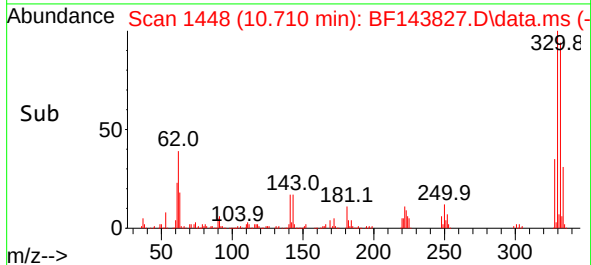
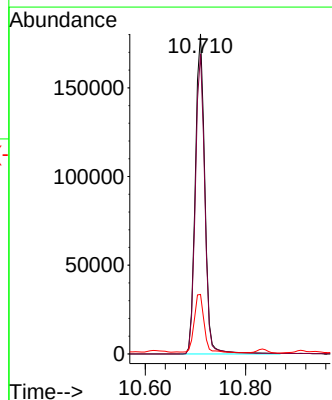
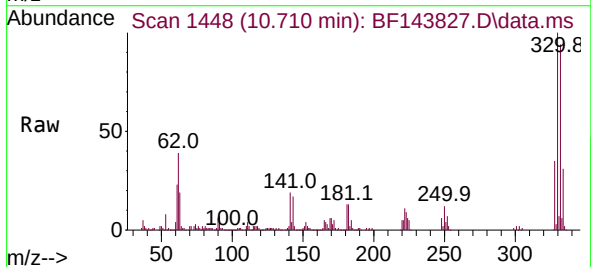
Instrument :
 BNA_F
 ClientSampleId :
 WC-4

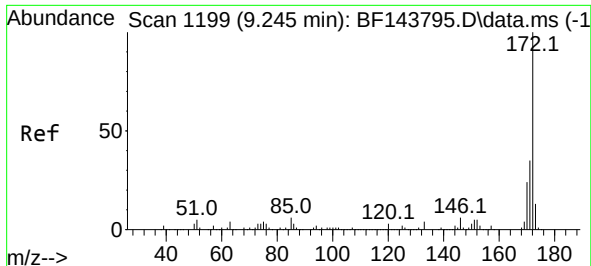
Tgt Ion:164 Resp: 266162
 Ion Ratio Lower Upper
 164 100
 162 99.0 78.8 118.2
 160 45.1 35.8 53.6



#42
 2,4,6-Tribromophenol
 Concen: 60.287 ng
 RT: 10.710 min Scan# 1448
 Delta R.T. -0.006 min
 Lab File: BF143827.D
 Acq: 29 Sep 2025 17:42

Tgt Ion:330 Resp: 237588
 Ion Ratio Lower Upper
 330 100
 332 93.5 74.7 112.1
 141 19.0 14.3 21.5





#45

2-Fluorobiphenyl

Concen: 47.809 ng

RT: 9.240 min Scan# 1199

Delta R.T. -0.005 min

Lab File: BF143827.D

Acq: 29 Sep 2025 17:42

Instrument :

BNA_F

ClientSampleId :

WC-4

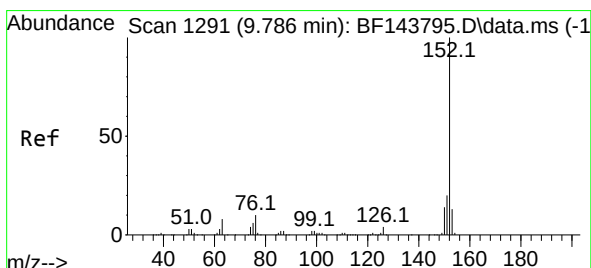
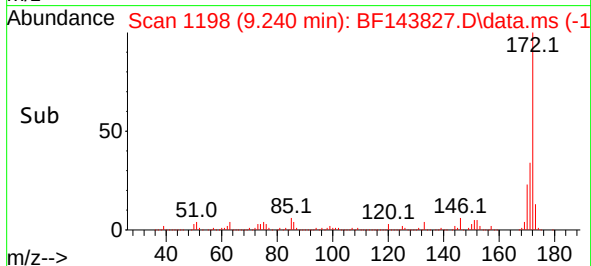
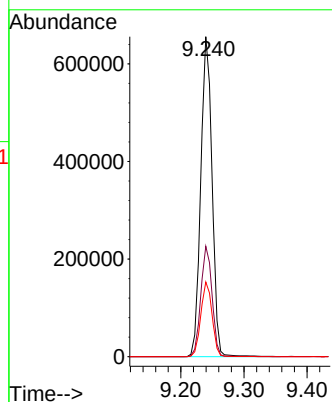
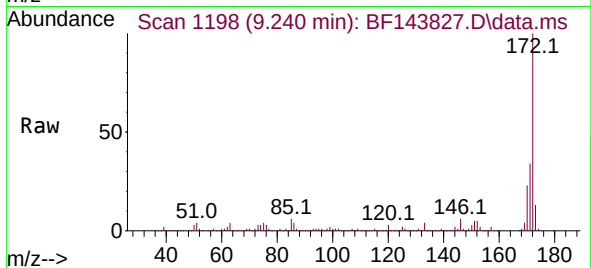
Tgt Ion:172 Resp: 815436

Ion Ratio Lower Upper

172 100

171 34.5 27.9 41.9

170 23.3 19.1 28.7



#49

Acenaphthylene

Concen: 8.242 ng

RT: 9.781 min Scan# 1290

Delta R.T. -0.006 min

Lab File: BF143827.D

Acq: 29 Sep 2025 17:42

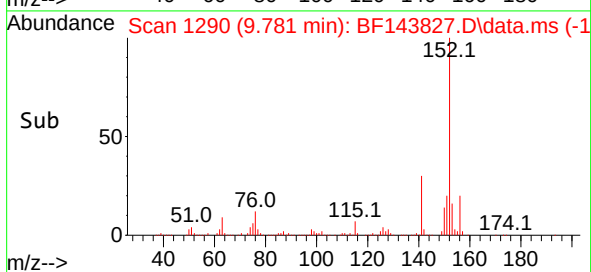
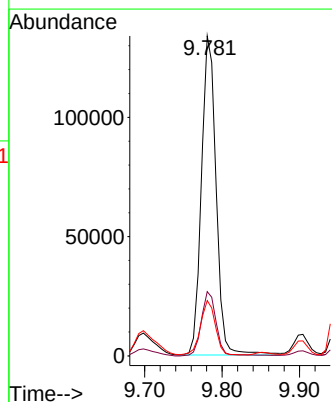
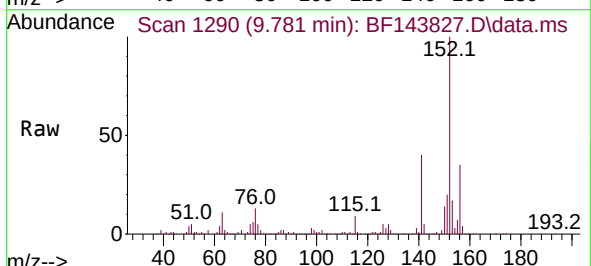
Tgt Ion:152 Resp: 175977

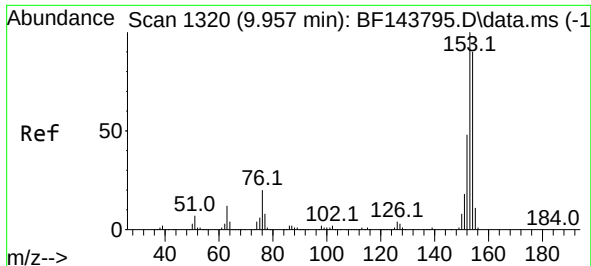
Ion Ratio Lower Upper

152 100

151 20.1 15.7 23.5

153 17.3 10.6 15.8#

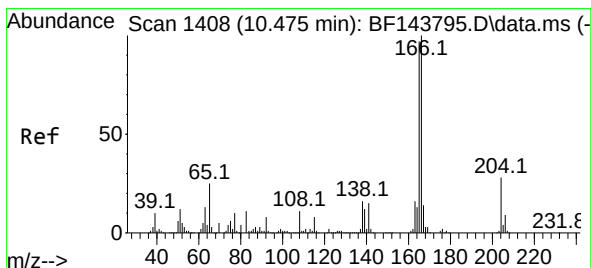
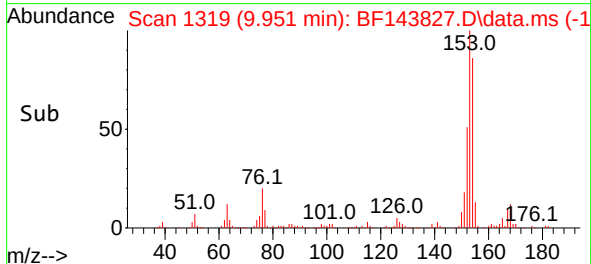
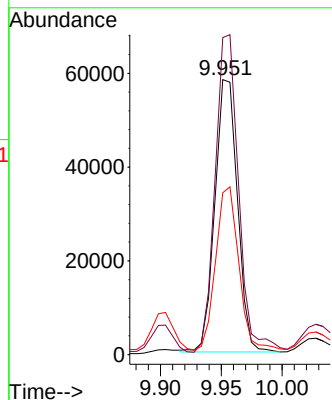
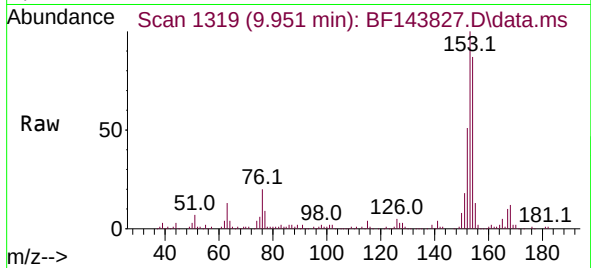




#52
Acenaphthene
Concen: 5.349 ng
RT: 9.951 min Scan# 1319
Delta R.T. -0.012 min
Lab File: BF143827.D
Acq: 29 Sep 2025 17:42

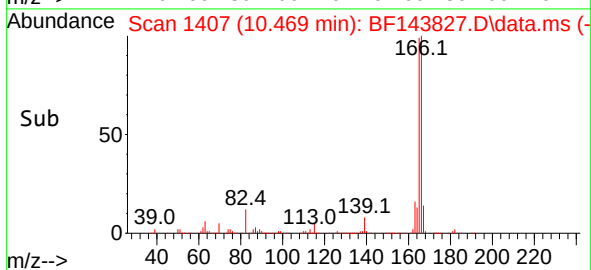
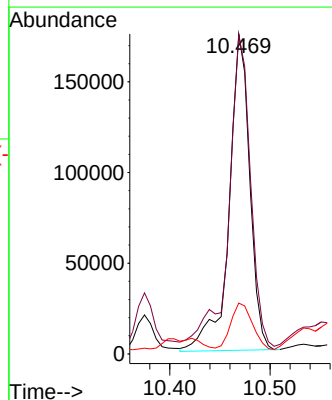
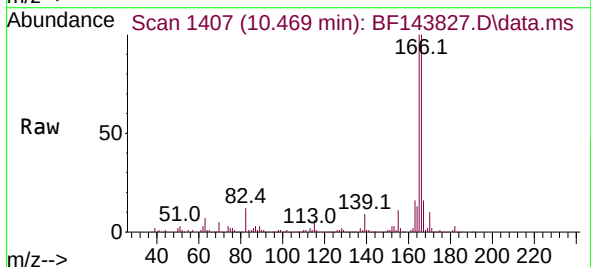
Instrument :
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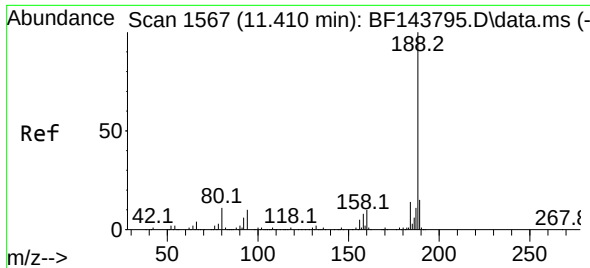
Tgt Ion:154 Resp: 75153
Ion Ratio Lower Upper
154 100
153 115.3 88.7 133.1
152 58.9 42.7 64.1



#58
Fluorene
Concen: 17.036 ng
RT: 10.469 min Scan# 1407
Delta R.T. -0.006 min
Lab File: BF143827.D
Acq: 29 Sep 2025 17:42

Tgt Ion:166 Resp: 251620
Ion Ratio Lower Upper
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165 99.7 78.0 117.0
167 15.9 10.9 16.3

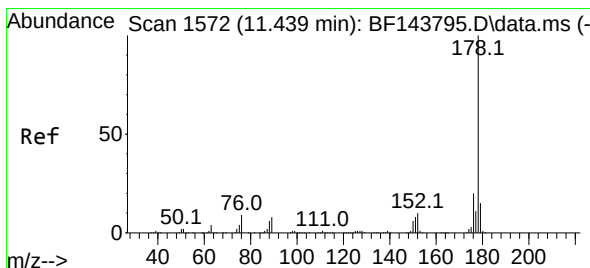
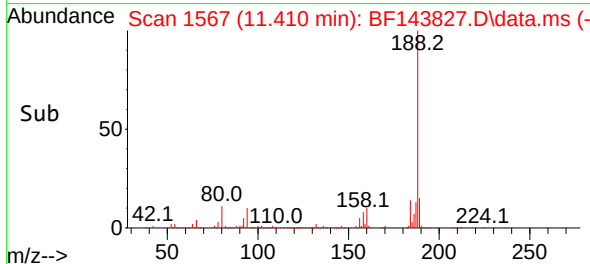
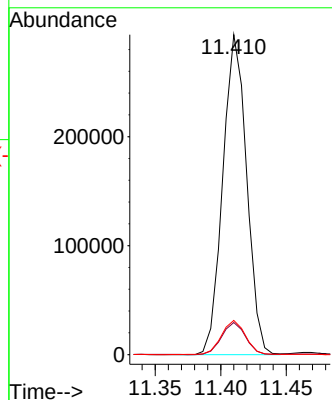
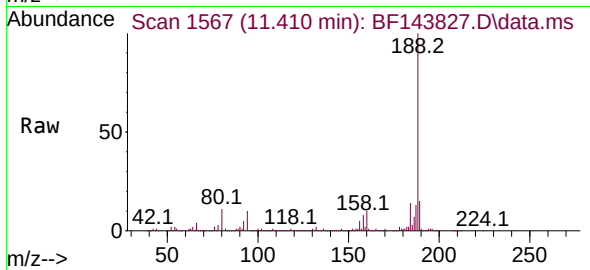




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.410 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF143827.D
Acq: 29 Sep 2025 17:42

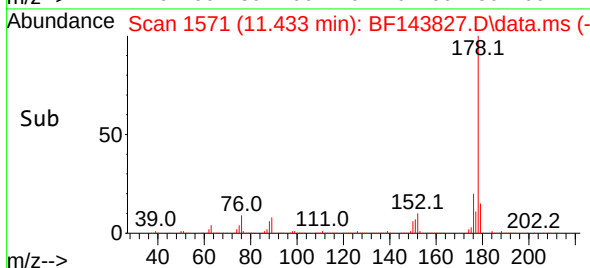
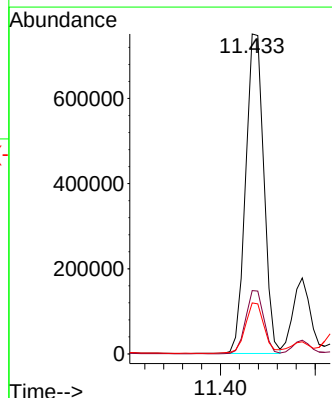
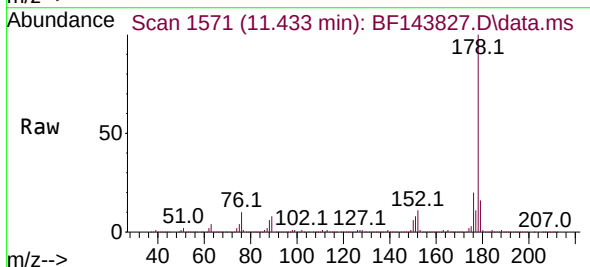
Instrument :
BNA_F
ClientSampleId :
WC-4

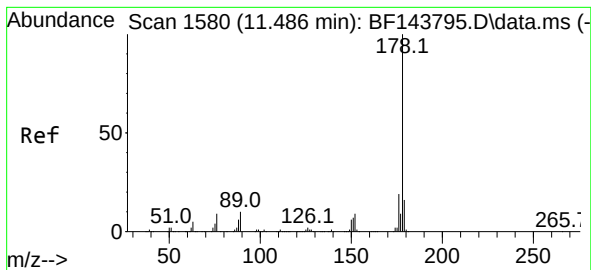
Tgt Ion:188 Resp: 372415
Ion Ratio Lower Upper
188 100
94 10.0 8.2 12.2
80 10.7 8.6 12.8



#71
Phenanthrene
Concen: 52.201 ng
RT: 11.433 min Scan# 1571
Delta R.T. -0.006 min
Lab File: BF143827.D
Acq: 29 Sep 2025 17:42

Tgt Ion:178 Resp: 998071
Ion Ratio Lower Upper
178 100
176 19.8 15.6 23.4
179 15.9 12.2 18.4





#72

Anthracene

Concen: 10.676 ng

RT: 11.486 min Scan# 1580

Delta R.T. -0.006 min

Lab File: BF143827.D

Acq: 29 Sep 2025 17:42

Instrument :

BNA_F

ClientSampleId :

WC-4

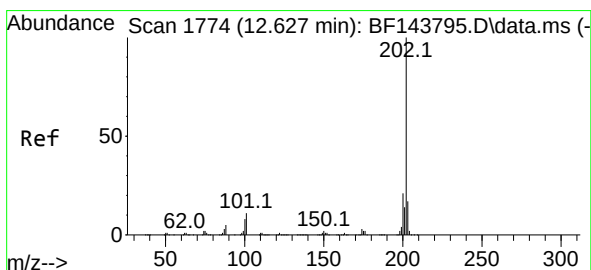
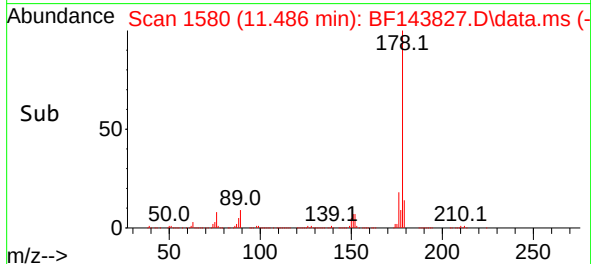
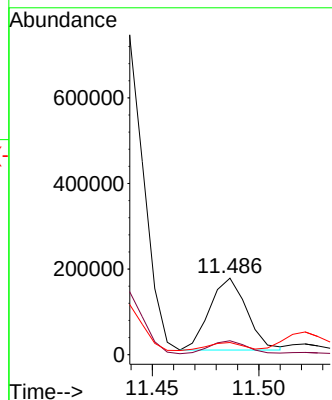
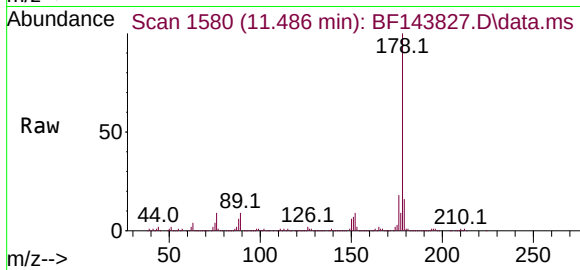
Tgt Ion:178 Resp: 204755

Ion Ratio Lower Upper

178 100

176 18.1 15.3 22.9

179 15.9 12.8 19.2



#75

Fluoranthene

Concen: 34.684 ng

RT: 12.628 min Scan# 1774

Delta R.T. 0.000 min

Lab File: BF143827.D

Acq: 29 Sep 2025 17:42

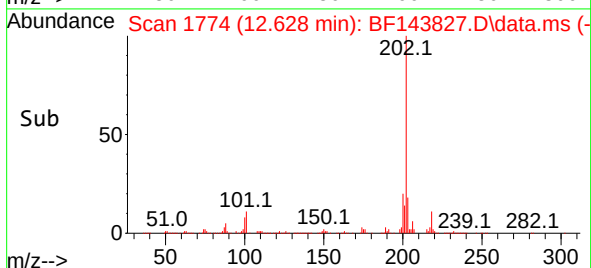
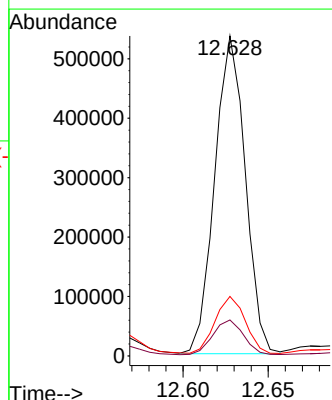
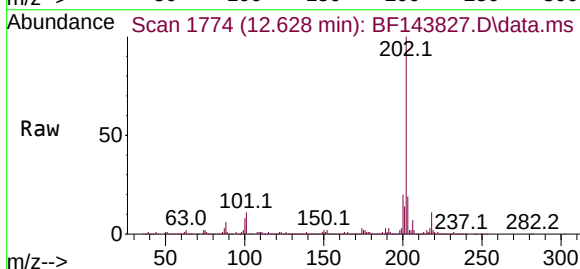
Tgt Ion:202 Resp: 666985

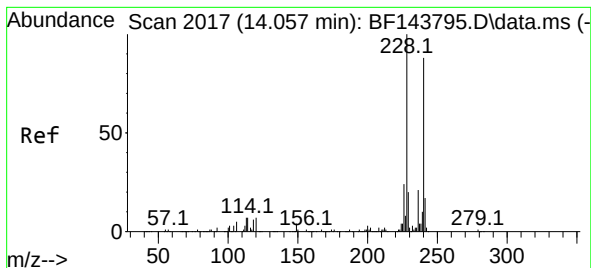
Ion Ratio Lower Upper

202 100

101 11.2 0.0 31.1

203 18.6 0.0 37.4





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.057 min Scan# 2017

Delta R.T. -0.006 min

Lab File: BF143827.D

Acq: 29 Sep 2025 17:42

Instrument :

BNA_F

ClientSampleId :

WC-4

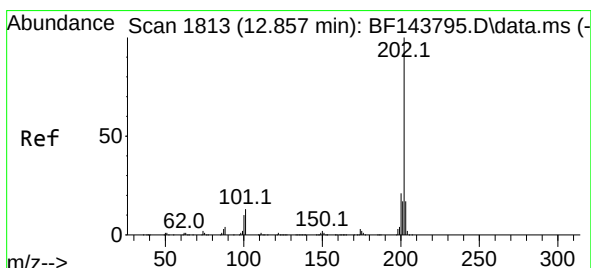
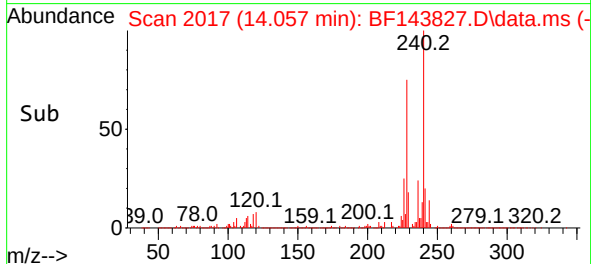
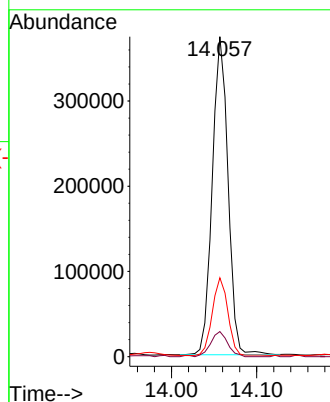
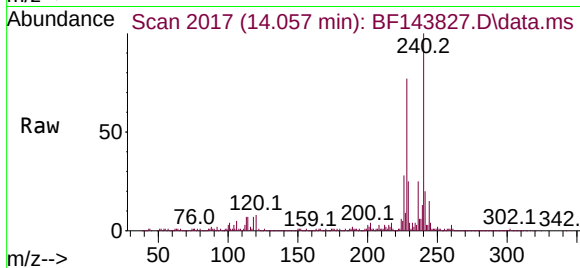
Tgt Ion:240 Resp: 479462

Ion Ratio Lower Upper

240 100

120 7.8 6.2 9.4

236 24.6 19.4 29.2



#78

Pyrene

Concen: 52.472 ng

RT: 12.857 min Scan# 1813

Delta R.T. 0.000 min

Lab File: BF143827.D

Acq: 29 Sep 2025 17:42

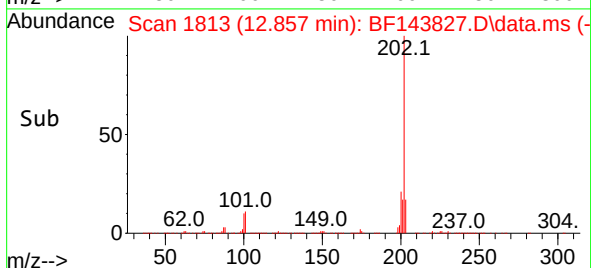
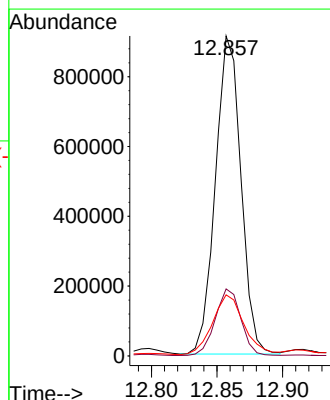
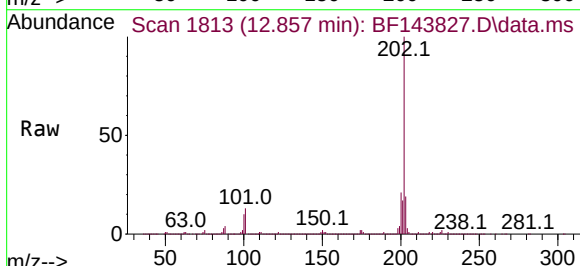
Tgt Ion:202 Resp: 1236899

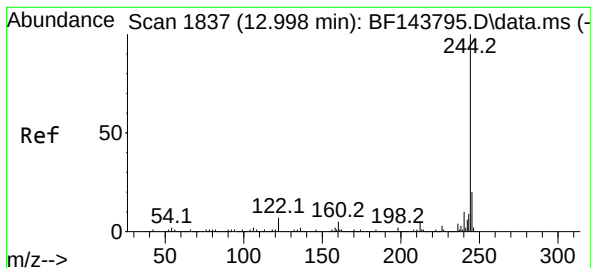
Ion Ratio Lower Upper

202 100

200 20.9 17.0 25.4

203 19.1 13.9 20.9





#79

Terphenyl-d14

Concen: 41.513 ng

RT: 12.998 min Scan# 1837

Delta R.T. -0.006 min

Lab File: BF143827.D

Acq: 29 Sep 2025 17:42

Instrument :

BNA_F

ClientSampleId :

WC-4

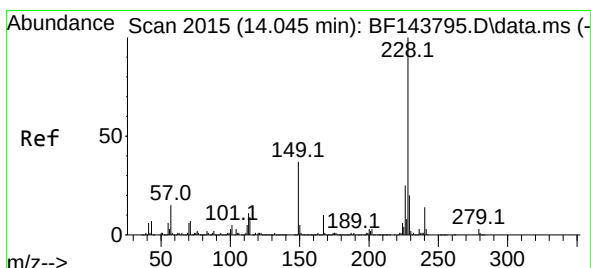
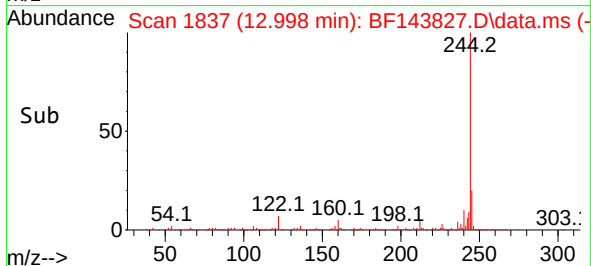
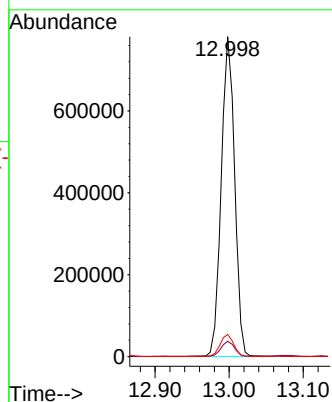
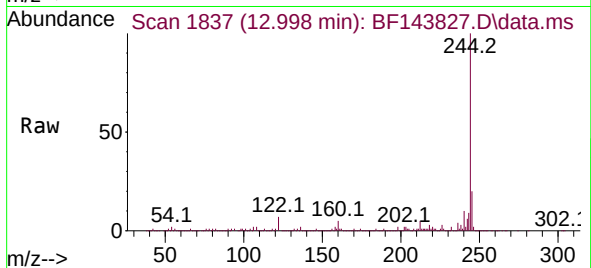
Tgt Ion:244 Resp: 978671

Ion Ratio Lower Upper

244 100

212 4.8 3.9 5.9

122 6.9 5.6 8.4



#81

Benzo(a)anthracene

Concen: 26.345 ng

RT: 14.045 min Scan# 2015

Delta R.T. -0.006 min

Lab File: BF143827.D

Acq: 29 Sep 2025 17:42

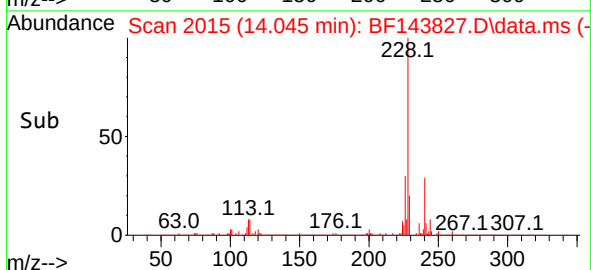
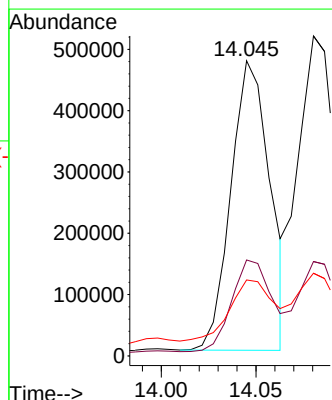
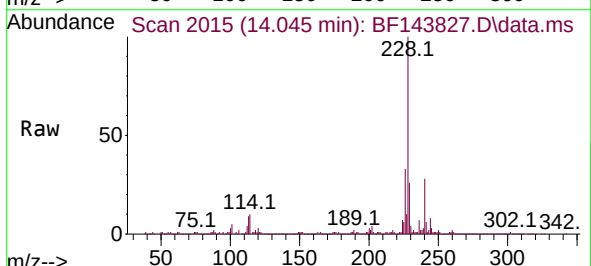
Tgt Ion:228 Resp: 678591

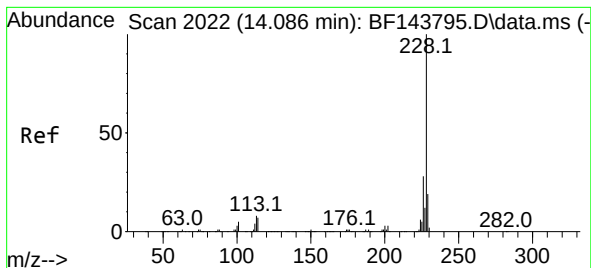
Ion Ratio Lower Upper

228 100

226 32.5 20.2 30.2#

229 25.7 16.1 24.1#





#83

Chrysene

Concen: 30.858 ng

RT: 14.080 min Scan# 2022

Delta R.T. -0.006 min

Lab File: BF143827.D

Acq: 29 Sep 2025 17:42

Instrument :

BNA_F

ClientSampleId :

WC-4

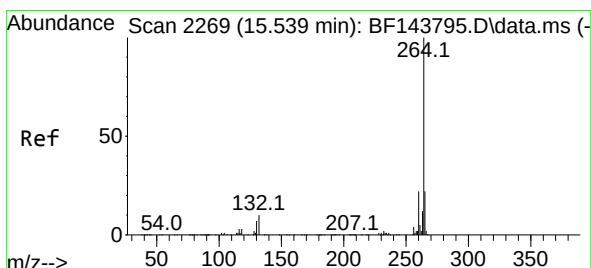
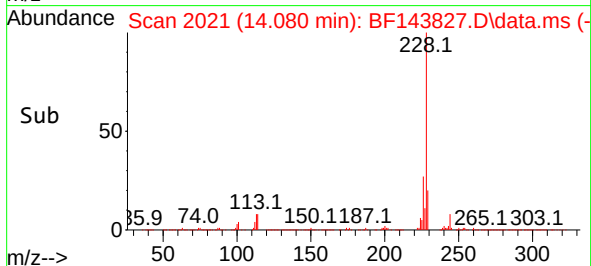
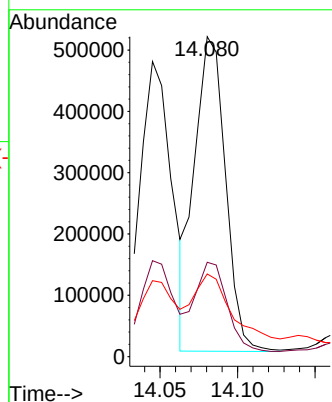
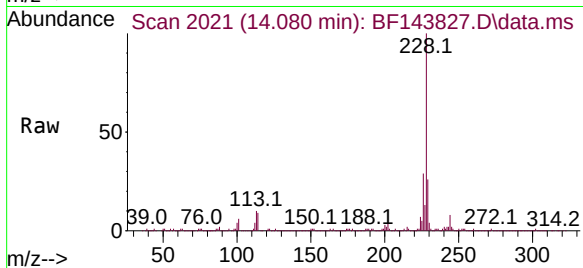
Tgt Ion:228 Resp: 719218

Ion Ratio Lower Upper

228 100

226 29.5 22.6 33.8

229 25.8 15.6 23.4#



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.539 min Scan# 2269

Delta R.T. 0.000 min

Lab File: BF143827.D

Acq: 29 Sep 2025 17:42

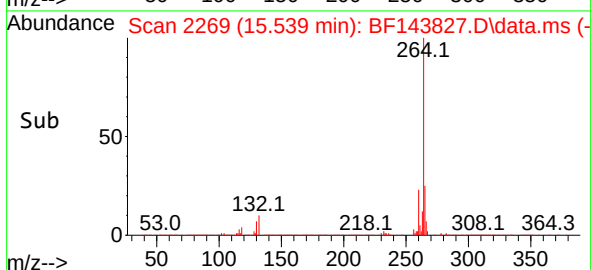
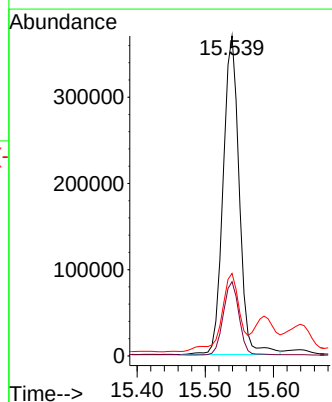
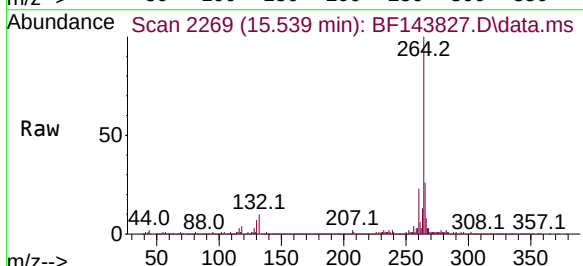
Tgt Ion:264 Resp: 604628

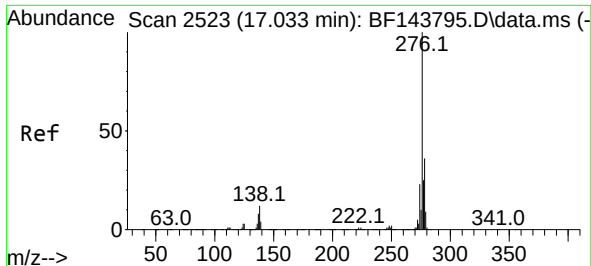
Ion Ratio Lower Upper

264 100

260 23.2 17.9 26.9

265 25.8 17.7 26.5

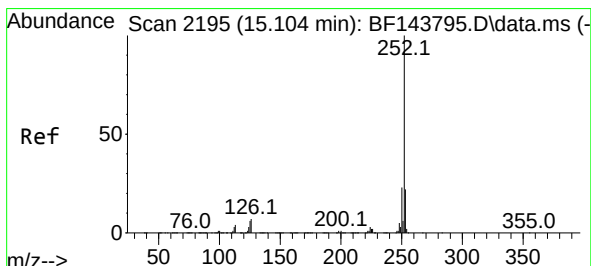
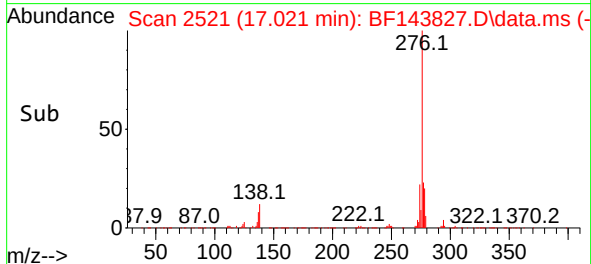
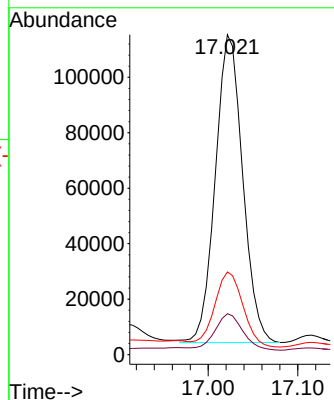
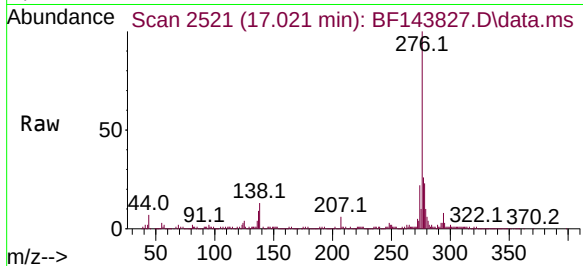




#87
Indeno(1,2,3-cd)pyrene
Concen: 5.146 ng
RT: 17.021 min Scan# 21
Delta R.T. -0.023 min
Lab File: BF143827.D
Acq: 29 Sep 2025 17:42

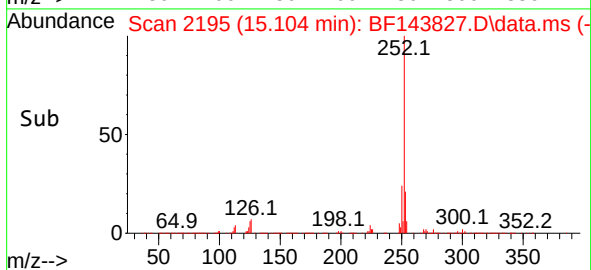
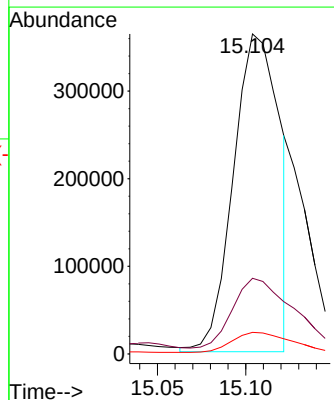
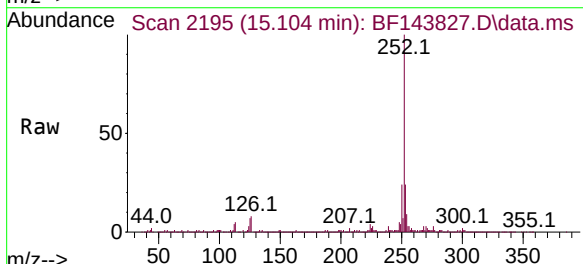
Instrument :
BNA_F
ClientSampleId :
WC-4

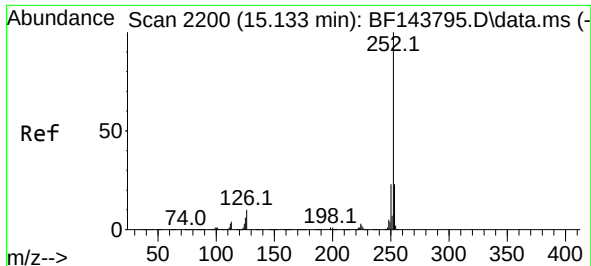
Tgt Ion:276 Resp: 236079
Ion Ratio Lower Upper
276 100
138 12.2 10.6 15.8
277 25.5 20.7 31.1



#88
Benzo(b)fluoranthene
Concen: 21.412 ng m
RT: 15.104 min Scan# 2195
Delta R.T. 0.000 min
Lab File: BF143827.D
Acq: 29 Sep 2025 17:42

Tgt Ion:252 Resp: 659301
Ion Ratio Lower Upper
252 100
253 23.7 17.8 26.8
125 6.7 4.4 6.6#





#89

Benzo(k)fluoranthene

Concen: 6.622 ng m

RT: 15.121 min Scan# 2198

Delta R.T. -0.017 min

Lab File: BF143827.D

Acq: 29 Sep 2025 17:42

Instrument :

BNA_F

ClientSampleId :

WC-4

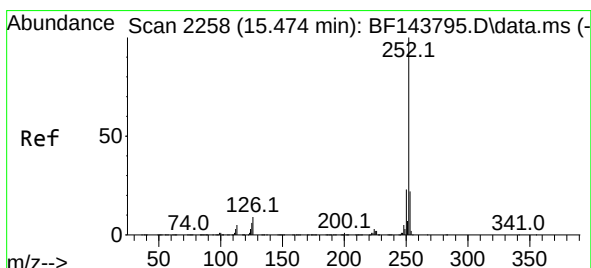
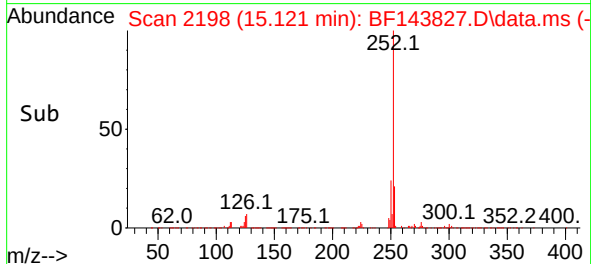
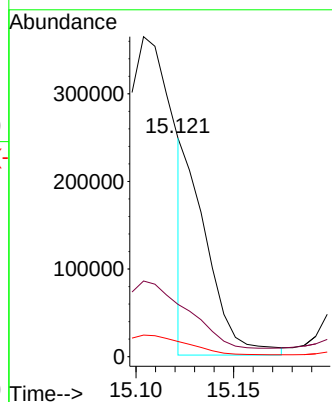
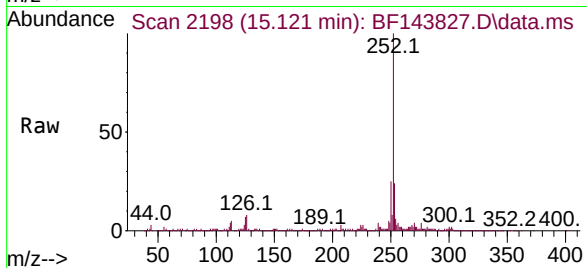
Tgt Ion:252 Resp: 204858

Ion Ratio Lower Upper

252 100

253 23.9 17.9 26.9

125 6.9 4.6 6.8#



#90

Benzo(a)pyrene

Concen: 22.112 ng

RT: 15.474 min Scan# 2258

Delta R.T. -0.006 min

Lab File: BF143827.D

Acq: 29 Sep 2025 17:42

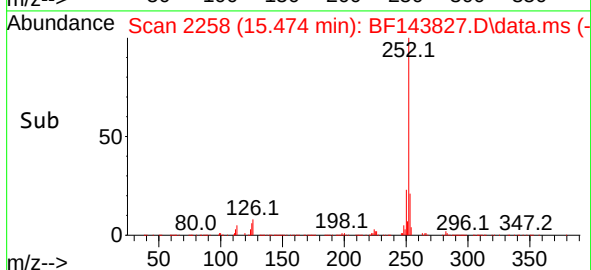
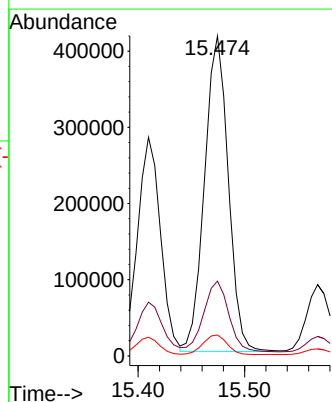
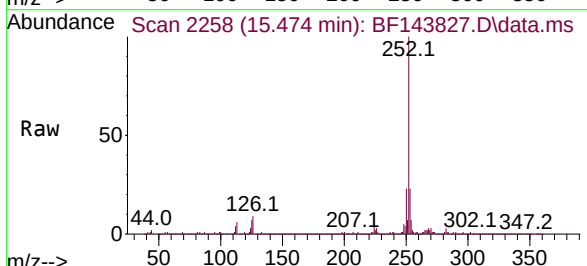
Tgt Ion:252 Resp: 639966

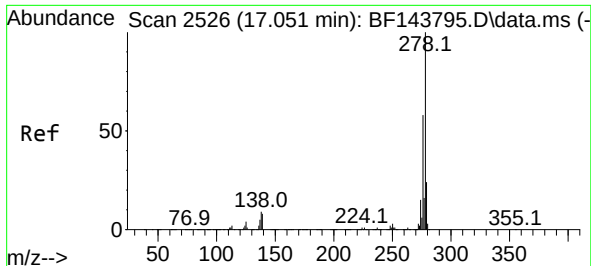
Ion Ratio Lower Upper

252 100

253 23.4 17.6 26.4

125 6.5 5.0 7.4

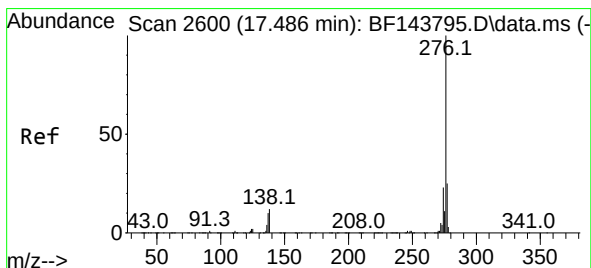
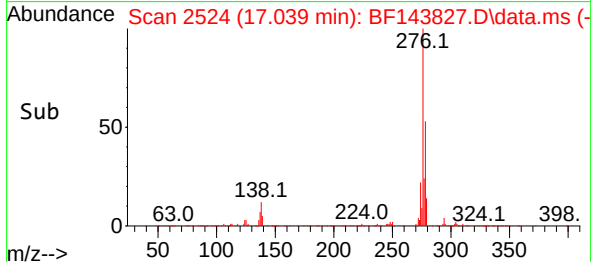
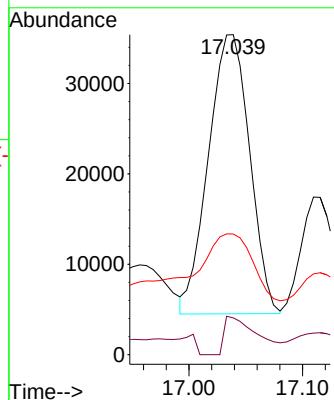
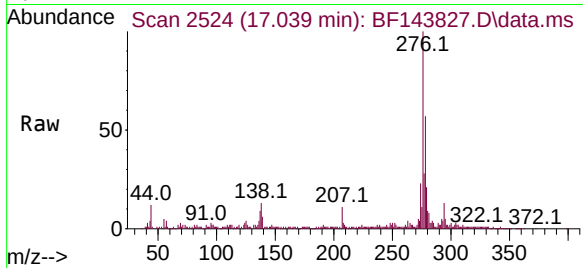




#91
Dibenzo(a,h)anthracene
Concen: 2.076 ng
RT: 17.039 min Scan# 21
Delta R.T. -0.029 min
Lab File: BF143827.D
Acq: 29 Sep 2025 17:42

Instrument :
BNA_F
ClientSampleId :
WC-4

Tgt Ion:278 Resp: 77889
Ion Ratio Lower Upper
278 100
139 11.5 6.7 10.1#
279 37.7 19.3 28.9#



#92
Benzo(g,h,i)perylene
Concen: 7.741 ng
RT: 17.474 min Scan# 2598
Delta R.T. -0.029 min
Lab File: BF143827.D
Acq: 29 Sep 2025 17:42

Tgt Ion:276 Resp: 280007
Ion Ratio Lower Upper
276 100
277 25.6 19.6 29.4
138 12.2 9.2 13.8

