

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082125\
 Data File : BF143525.D
 Acq On : 21 Aug 2025 12:46
 Operator : RC/JU
 Sample : Q2819-07
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 11M-N

Manual Integrations
 APPROVED

Reviewed By :Rahul Chavli 08/22/2025
 Supervised By :mohammad ahmed 08/22/2025

Quant Time: Aug 21 13:50:06 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Aug 21 06:12:21 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.928	152	118931	20.000	ng	0.00
21) Naphthalene-d8	8.204	136	449576	20.000	ng	0.00
39) Acenaphthene-d10	9.963	164	234828	20.000	ng	0.00
64) Phenanthrene-d10	11.451	188	338286	20.000	ng	0.00
76) Chrysene-d12	14.092	240	208452	20.000	ng	-0.01
86) Perylene-d12	15.592	264	261830	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.563	112	578369	84.917	ng	0.00
7) Phenol-d6	6.557	99	727657	86.545	ng	-0.02
23) Nitrobenzene-d5	7.481	82	483867	62.806	ng	-0.02
42) 2,4,6-Tribromophenol	10.751	330	169030	77.327	ng	-0.01
45) 2-Fluorobiphenyl	9.281	172	803836	56.572	ng	0.00
79) Terphenyl-d14	13.033	244	603175	50.494	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.228	128	386191	17.892	ng	99
37) 2-Methylnaphthalene	8.922	142	90622	6.286	ng	100
38) 1-Methylnaphthalene	9.016	142	59000	4.279	ng	99
52) Acenaphthene	9.992	154	138694	10.909	ng	99
55) Dibenzofuran	10.169	168	189690	10.465	ng	99
58) Fluorene	10.510	166	195333	14.001	ng	100
71) Phenanthrene	11.475	178	678352	37.445	ng	100
72) Anthracene	11.527	178	85798	4.675	ng	99
73) Carbazole	11.680	167	176236	11.720	ng	100
75) Fluoranthene	12.663	202	269271	16.565	ng	99
78) Pyrene	12.892	202	163978	9.563	ng	98
81) Benzo(a)anthracene	14.080	228	49325	3.675	ng	98
83) Chrysene	14.121	228	37243	3.088	ng	97
88) Benzo(b)fluoranthene	15.151	252	37661m	2.588	ng	

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

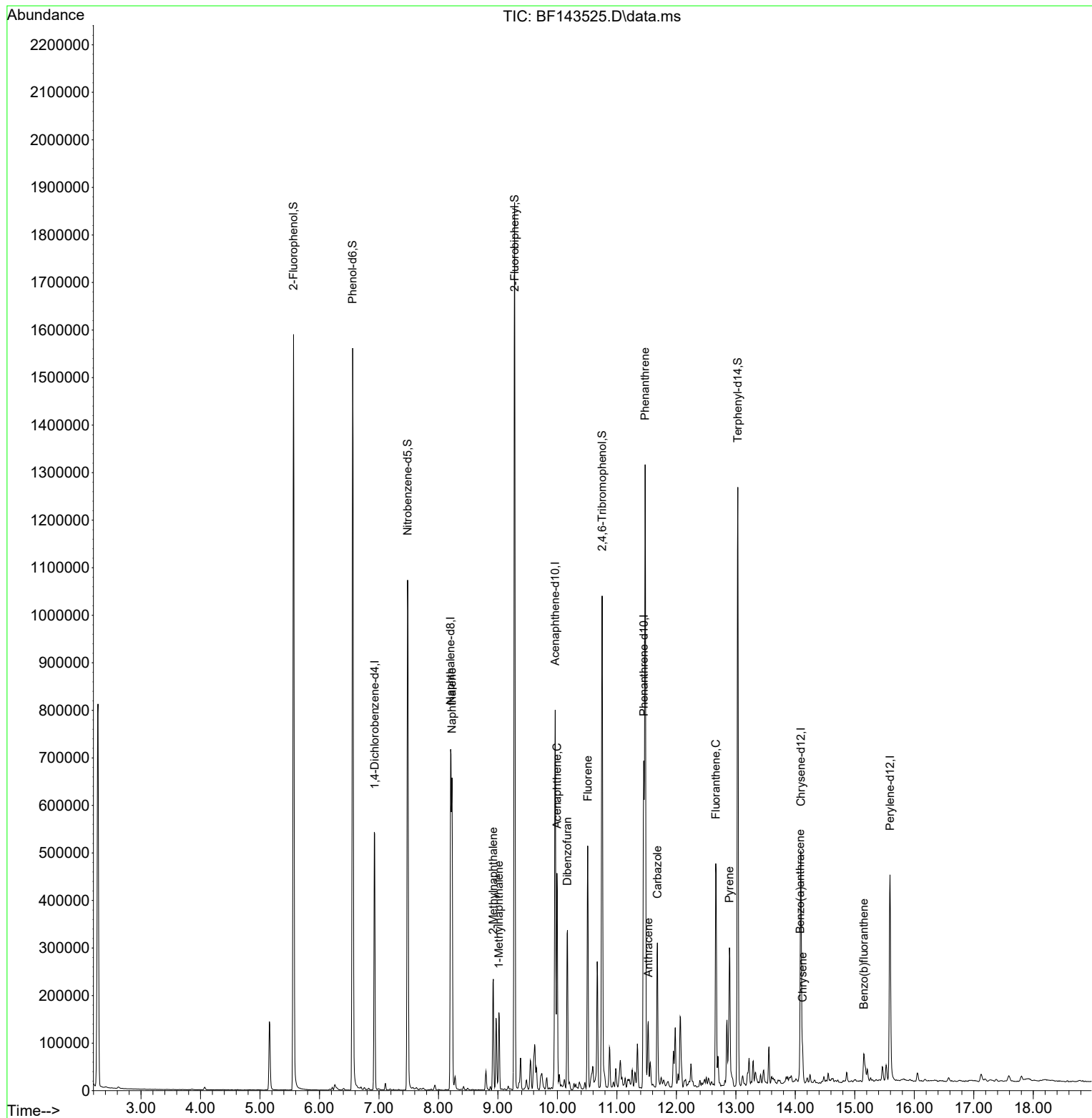
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082125\
Data File : BF143525.D
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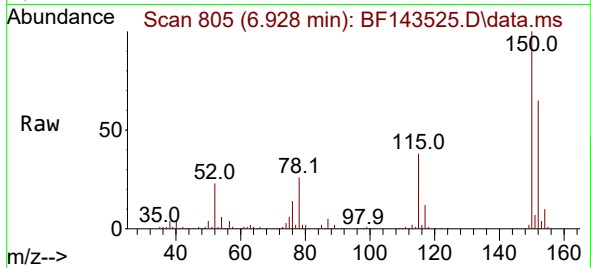
Quant Time: Aug 21 13:50:06 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 21 06:12:21 2025
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.928 min Scan# 805
Delta R.T. -0.000 min
Lab File: BF143525.D
Acq: 21 Aug 2025 12:46

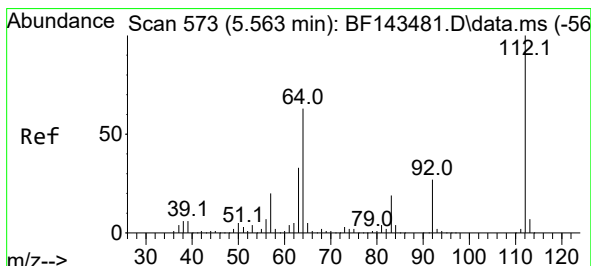
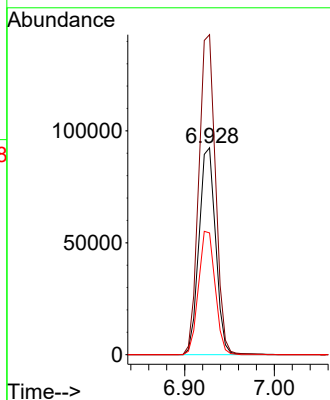
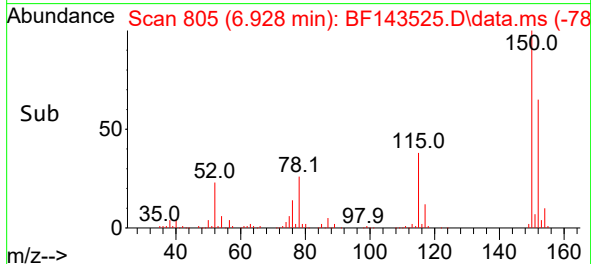
Instrument :
BNA_F
ClientSampleId :
11M-N



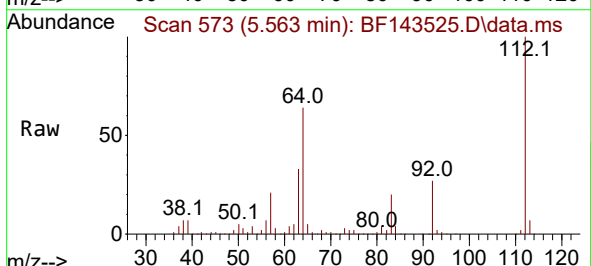
Tgt Ion:152 Resp: 118933
Ion Ratio Lower Upper
152 100
150 154.7 128.9 193.3
115 58.9 49.2 73.8

Manual Integrations
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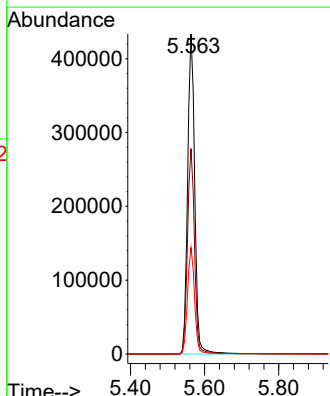
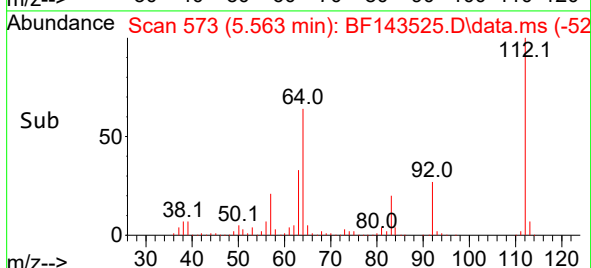
Reviewed By :Rahul Chavli 08/22/2025
Supervised By :mohammad ahmed 08/22/2025



#5
2-Fluorophenol
Concen: 84.917 ng
RT: 5.563 min Scan# 573
Delta R.T. -0.000 min
Lab File: BF143525.D
Acq: 21 Aug 2025 12:46



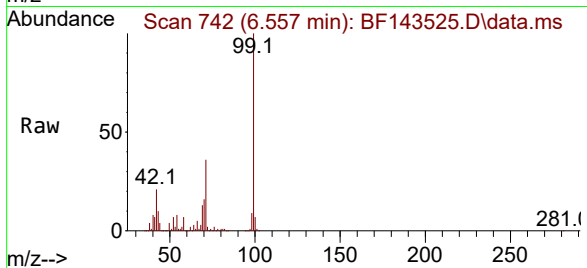
Tgt Ion:112 Resp: 578369
Ion Ratio Lower Upper
112 100
64 64.2 50.4 75.6
63 33.2 26.4 39.6





#7
Phenol-d6
Concen: 86.545 ng
RT: 6.557 min Scan# 743
Delta R.T. -0.018 min
Lab File: BF143525.D
Acq: 21 Aug 2025 12:46

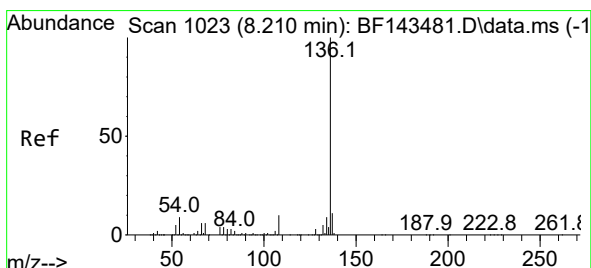
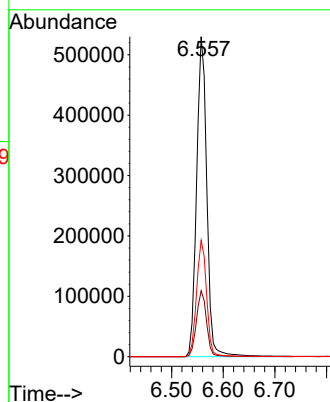
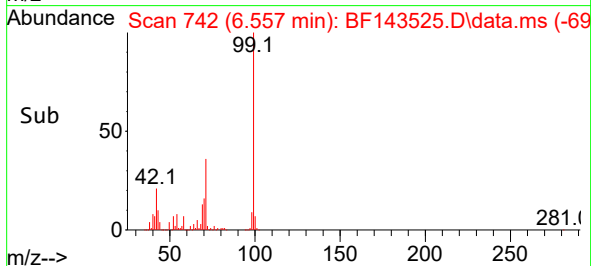
Instrument :
BNA_F
ClientSampleId :
11M-N



Tgt Ion: 99 Resp: 72765
Ion Ratio Lower Upper
99 100
42 20.6 16.3 24.5
71 36.4 28.2 42.2

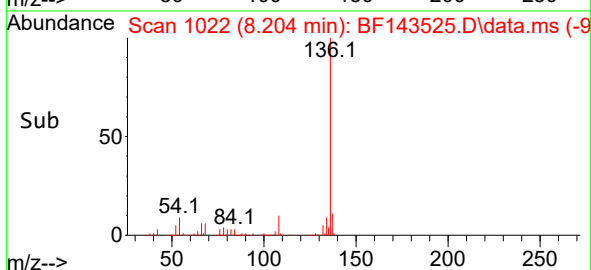
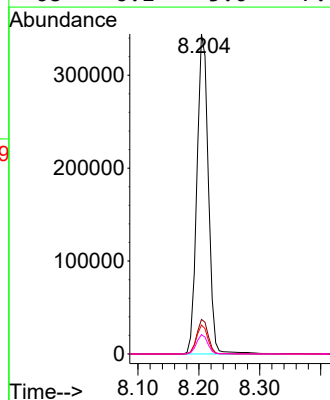
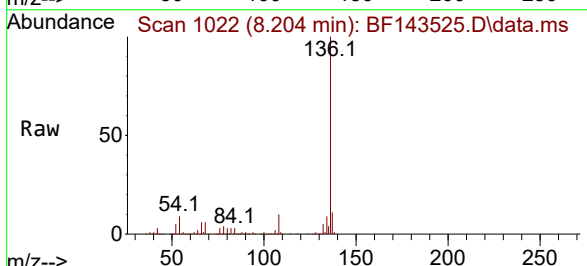
Manual Integrations
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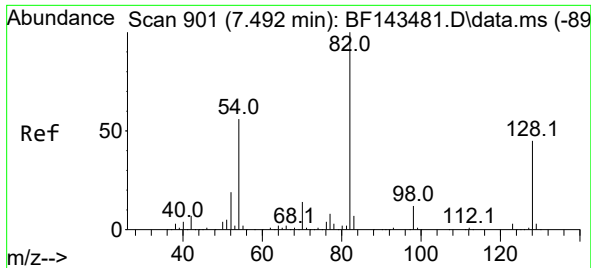
Reviewed By :Rahul Chavli 08/22/2025
Supervised By :mohammad ahmed 08/22/2025



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.204 min Scan# 1022
Delta R.T. -0.006 min
Lab File: BF143525.D
Acq: 21 Aug 2025 12:46

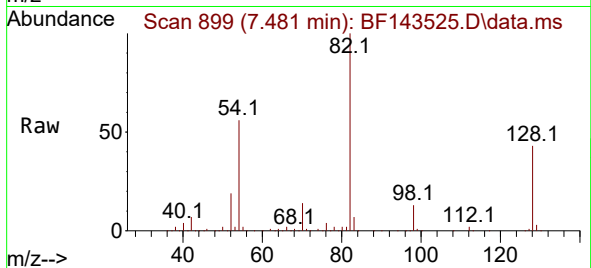
Tgt Ion:136 Resp: 449576
Ion Ratio Lower Upper
136 100
137 10.8 9.0 13.4
54 9.1 7.4 11.2
68 6.1 5.0 7.4





#23
Nitrobenzene-d5
Concen: 62.806 ng
RT: 7.481 min Scan# 899
Delta R.T. -0.018 min
Lab File: BF143525.D
Acq: 21 Aug 2025 12:46

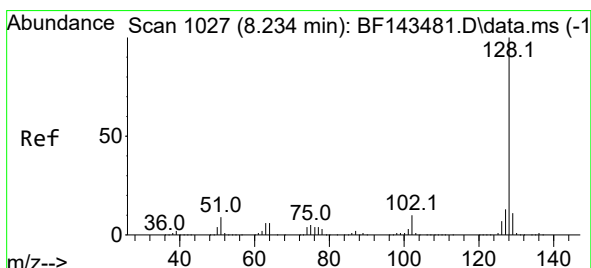
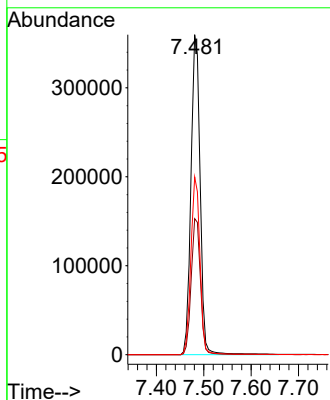
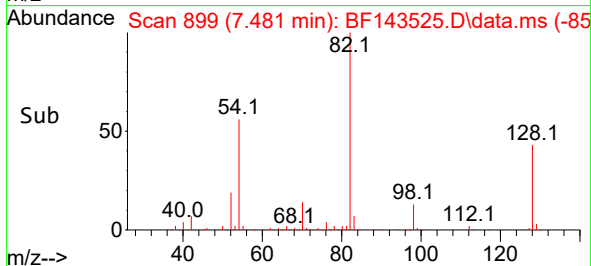
Instrument :
BNA_F
ClientSampleId :
11M-N



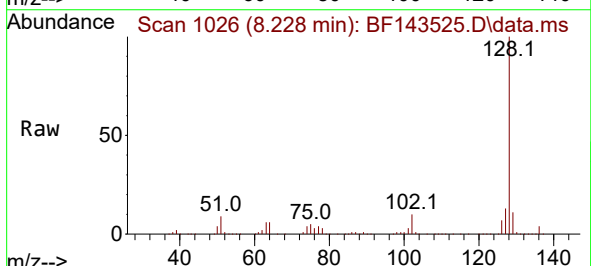
Tgt Ion: 82 Resp: 48386
Ion Ratio Lower Upper
82 100
128 42.5 35.5 53.3
54 55.6 44.3 66.5

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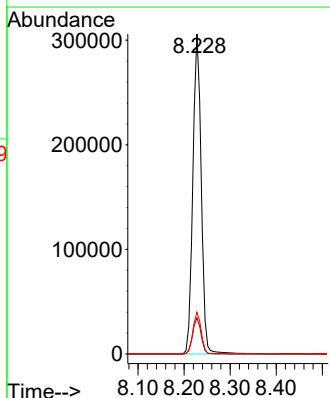
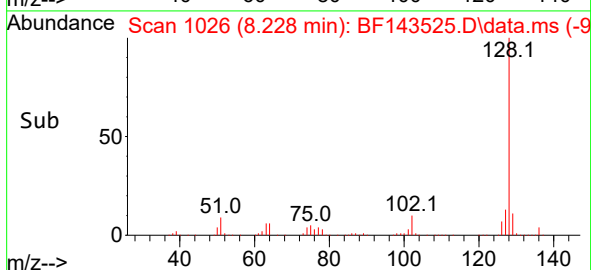
Reviewed By :Rahul Chavli 08/22/2025
Supervised By :mohammad ahmed 08/22/2025

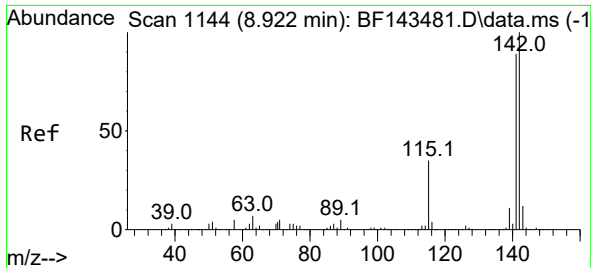


#31
Naphthalene
Concen: 17.892 ng
RT: 8.228 min Scan# 1026
Delta R.T. -0.006 min
Lab File: BF143525.D
Acq: 21 Aug 2025 12:46



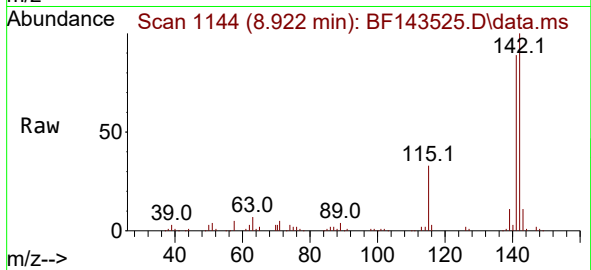
Tgt Ion:128 Resp: 386191
Ion Ratio Lower Upper
128 100
129 11.2 8.8 13.2
127 13.1 10.6 16.0





#37
2-Methylnaphthalene
Concen: 6.286 ng
RT: 8.922 min Scan# 1144
Delta R.T. -0.006 min
Lab File: BF143525.D
Acq: 21 Aug 2025 12:46

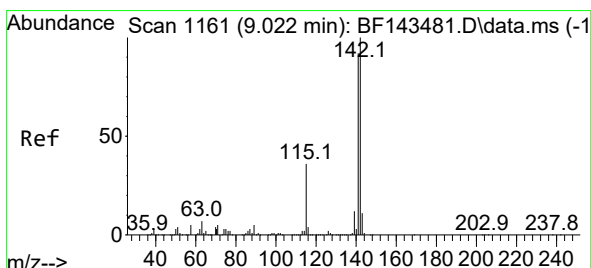
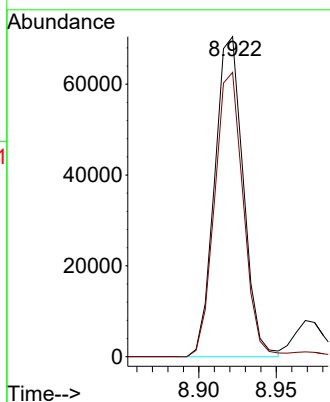
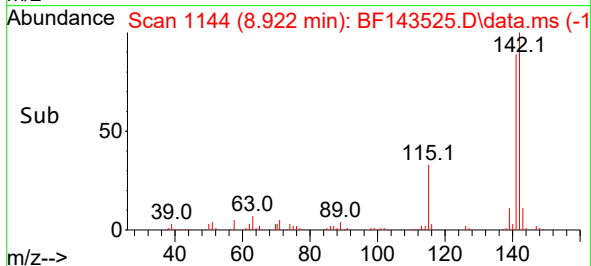
Instrument :
BNA_F
ClientSampleId :
11M-N



Tgt Ion:142 Resp: 9062
Ion Ratio Lower Upper
142 100
141 88.8 71.0 106.4

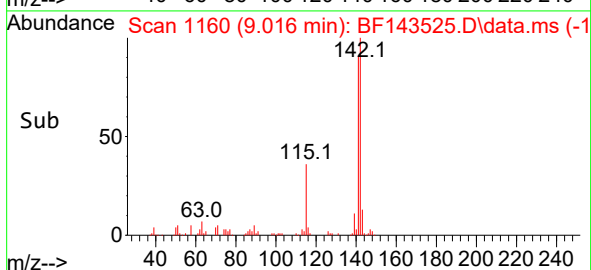
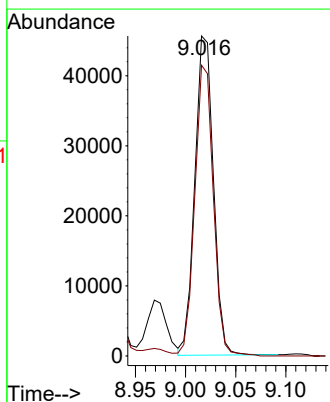
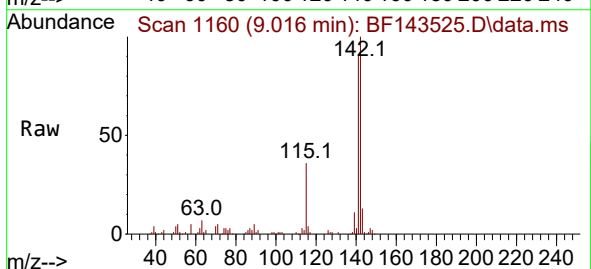
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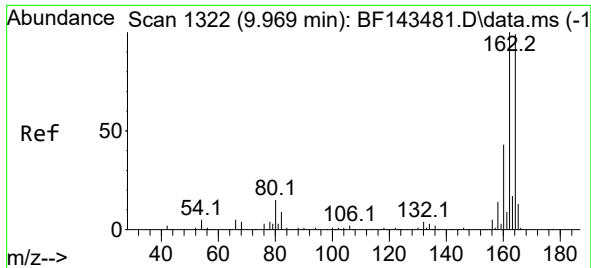
Reviewed By :Rahul Chavli 08/22/2025
Supervised By :mohammad ahmed 08/22/2025



#38
1-Methylnaphthalene
Concen: 4.279 ng
RT: 9.016 min Scan# 1160
Delta R.T. -0.012 min
Lab File: BF143525.D
Acq: 21 Aug 2025 12:46

Tgt Ion:142 Resp: 59000
Ion Ratio Lower Upper
142 100
141 90.8 73.3 109.9





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.963 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF143525.D

Acq: 21 Aug 2025 12:46

Instrument :

BNA_F

ClientSampleId :

11M-N

Tgt Ion:164 Resp: 234828

Ion Ratio Lower Upper

164 100

162 99.5 80.5 120.7

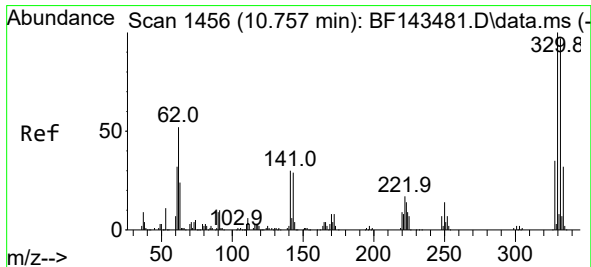
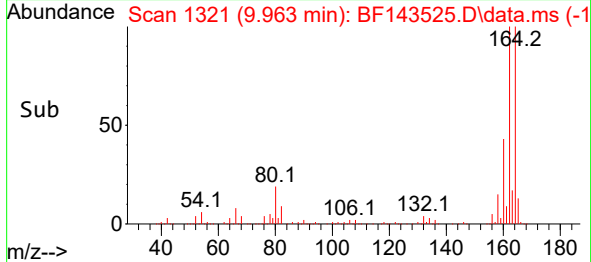
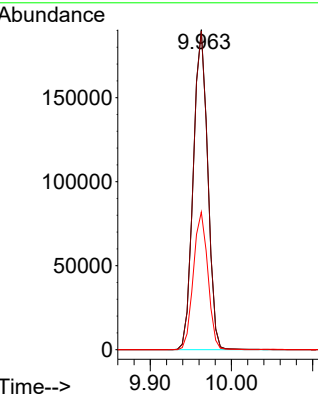
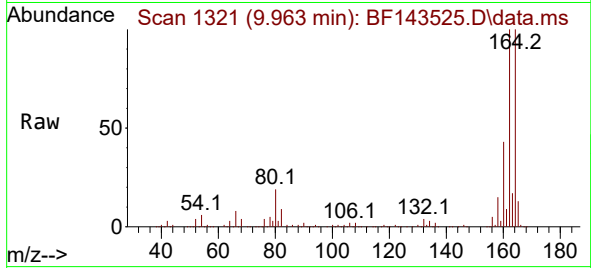
160 43.0 34.3 51.5

Manual Integrations

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Reviewed By :Rahul Chavli 08/22/2025

Supervised By :mohammad ahmed 08/22/2025



#42

2,4,6-Tribromophenol

Concen: 77.327 ng

RT: 10.751 min Scan# 1455

Delta R.T. -0.012 min

Lab File: BF143525.D

Acq: 21 Aug 2025 12:46

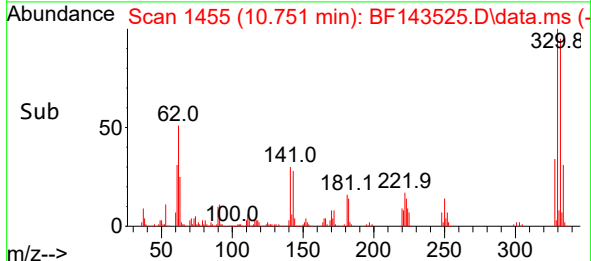
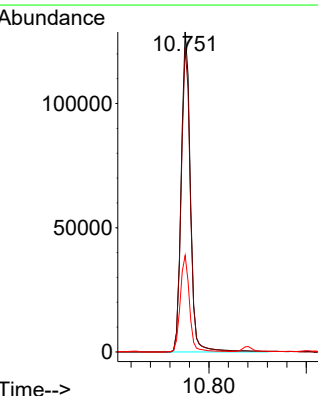
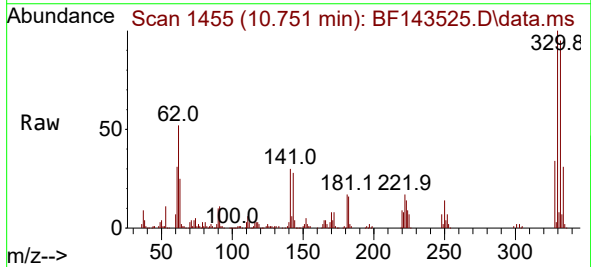
Tgt Ion:330 Resp: 169030

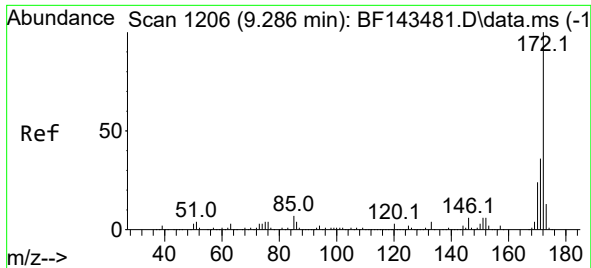
Ion Ratio Lower Upper

330 100

332 95.5 78.0 117.0

141 30.4 23.7 35.5





#45

2-Fluorobiphenyl

Concen: 56.572 ng

RT: 9.281 min Scan# 1205

Delta R.T. -0.006 min

Lab File: BF143525.D

Acq: 21 Aug 2025 12:46

Instrument :

BNA_F

ClientSampleId :

11M-N

Tgt Ion:172 Resp: 803830

Ion Ratio Lower Upper

172 100

171 35.1 28.8 43.2

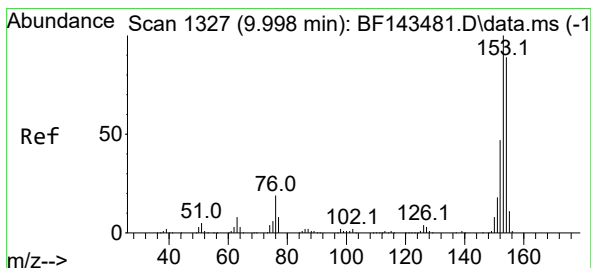
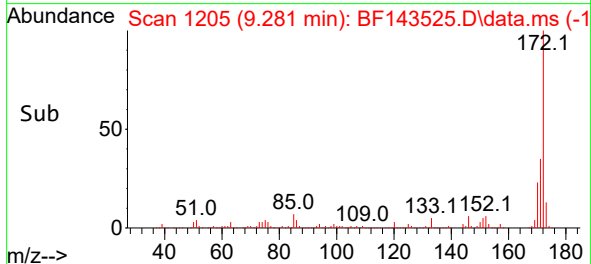
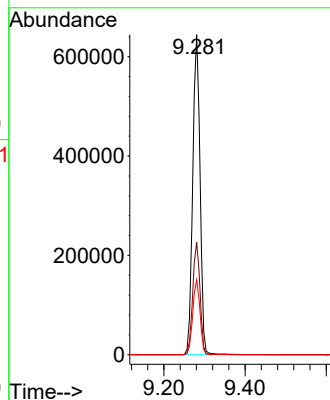
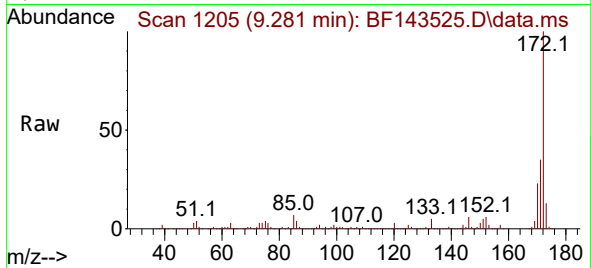
170 23.4 18.8 28.2

Manual Integrations

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Supervised By :mohammad ahmed 08/22/2025



#52

Acenaphthene

Concen: 10.909 ng

RT: 9.992 min Scan# 1326

Delta R.T. -0.012 min

Lab File: BF143525.D

Acq: 21 Aug 2025 12:46

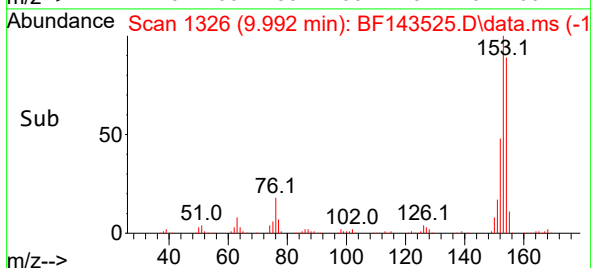
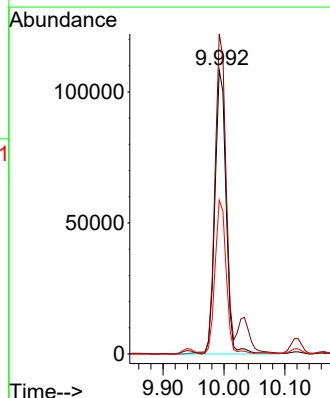
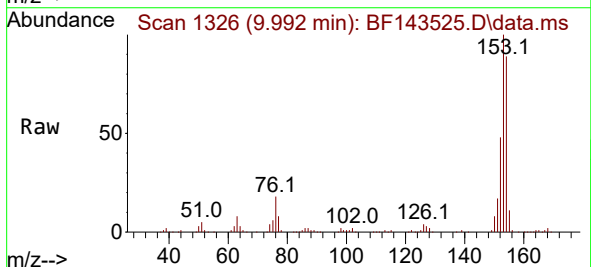
Tgt Ion:154 Resp: 138694

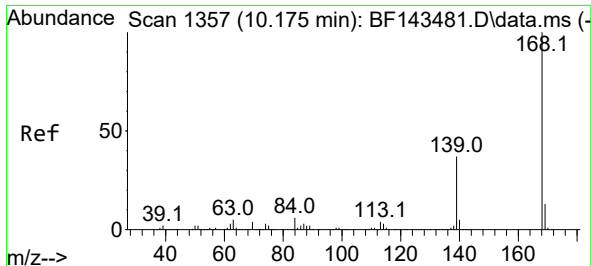
Ion Ratio Lower Upper

154 100

153 112.6 89.5 134.3

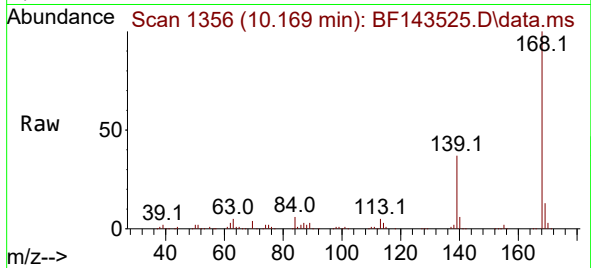
152 54.1 42.5 63.7





#55
Dibenzenofuran
Concen: 10.465 ng
RT: 10.169 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF143525.D
Acq: 21 Aug 2025 12:46

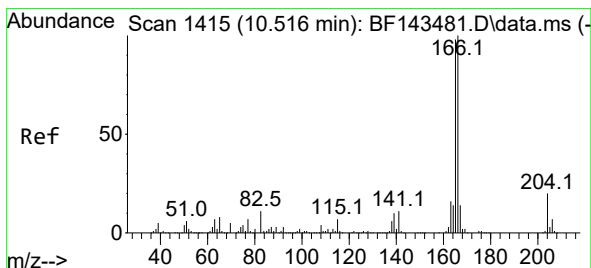
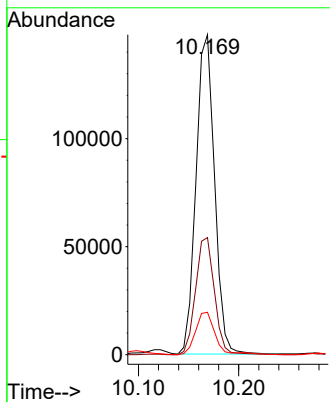
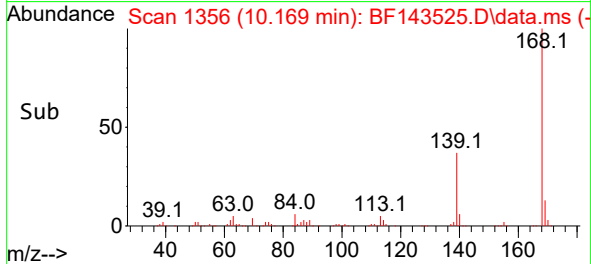
Instrument :
BNA_F
ClientSampleId :
11M-N



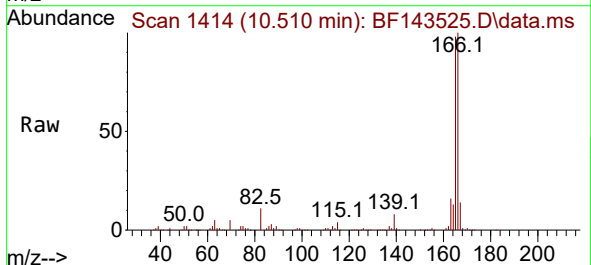
Tgt Ion:168 Resp: 189690
Ion Ratio Lower Upper
168 100
139 36.6 29.8 44.6
169 13.3 10.8 16.2

Manual Integrations
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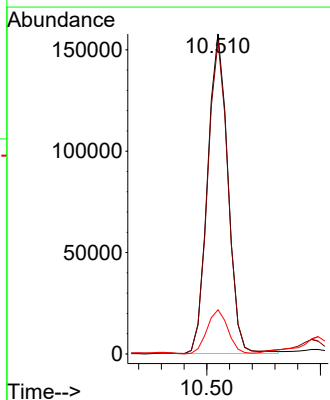
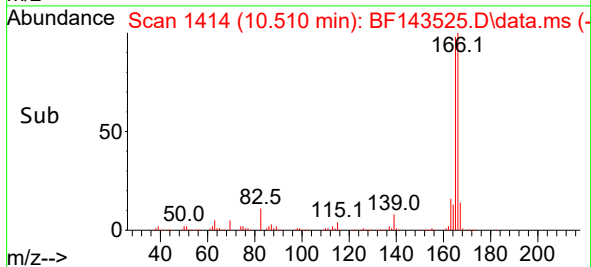
Reviewed By :Rahul Chavli 08/22/2025
Supervised By :mohammad ahmed 08/22/2025

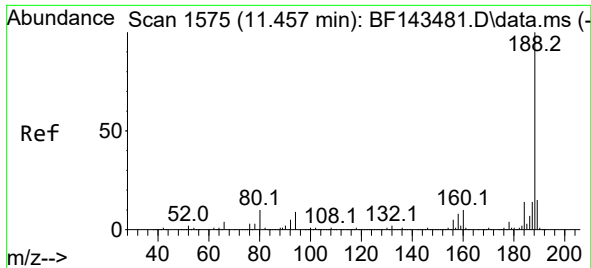


#58
Fluorene
Concen: 14.001 ng
RT: 10.510 min Scan# 1414
Delta R.T. -0.012 min
Lab File: BF143525.D
Acq: 21 Aug 2025 12:46



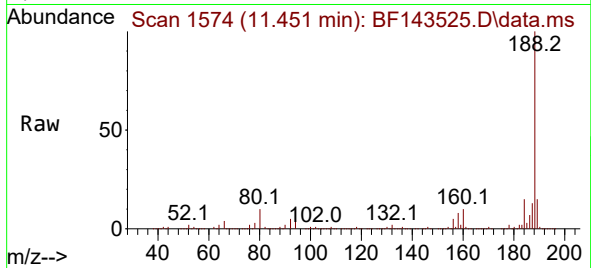
Tgt Ion:166 Resp: 195333
Ion Ratio Lower Upper
166 100
165 97.7 78.3 117.5
167 13.8 11.0 16.4





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.451 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF143525.D
Acq: 21 Aug 2025 12:46

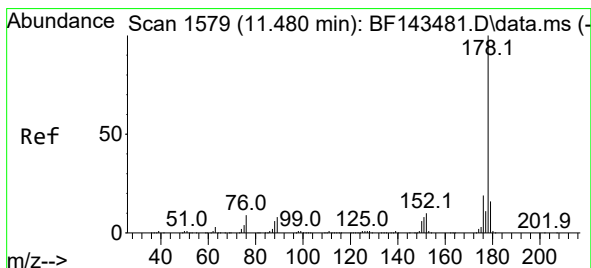
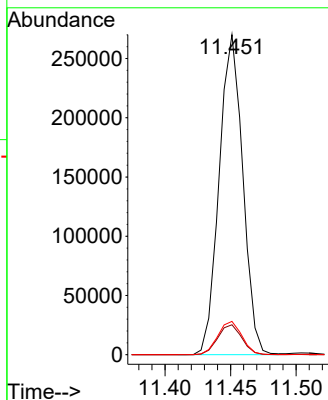
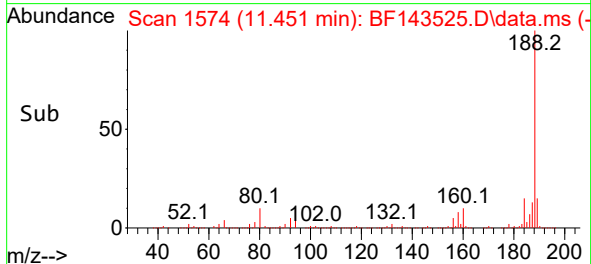
Instrument :
BNA_F
ClientSampleId :
11M-N



Tgt Ion:188 Resp: 338280
Ion Ratio Lower Upper
188 100
94 9.3 7.4 11.2
80 10.4 8.2 12.4

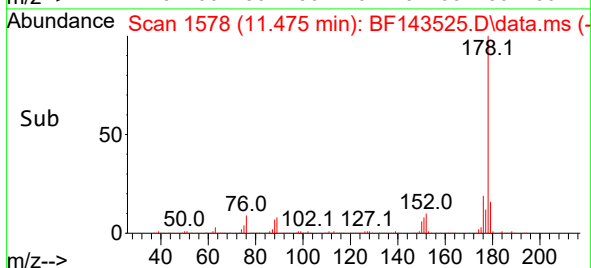
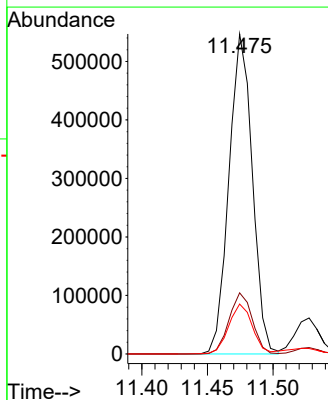
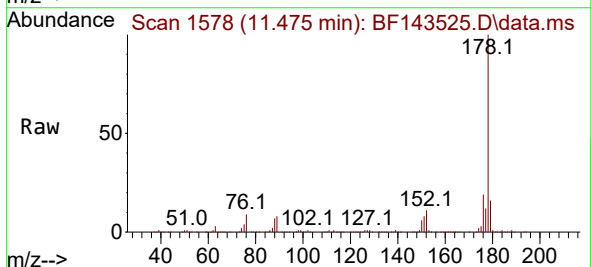
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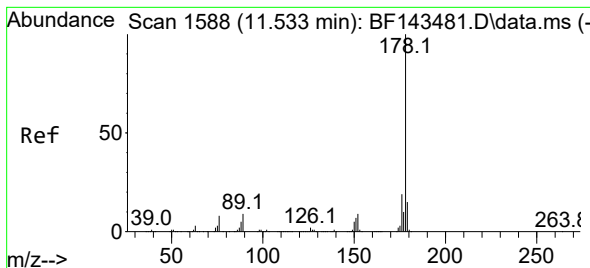
Reviewed By :Rahul Chavli 08/22/2025
Supervised By :mohammad ahmed 08/22/2025



#71
Phenanthrene
Concen: 37.445 ng
RT: 11.475 min Scan# 1578
Delta R.T. -0.006 min
Lab File: BF143525.D
Acq: 21 Aug 2025 12:46

Tgt Ion:178 Resp: 678352
Ion Ratio Lower Upper
178 100
176 19.1 15.5 23.3
179 15.6 12.5 18.7





#72

Anthracene

Concen: 4.675 ng

RT: 11.527 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF143525.D

Acq: 21 Aug 2025 12:46

Instrument :

BNA_F

ClientSampleId :

11M-N

Tgt Ion:178 Resp: 85798

Ion Ratio Lower Upper

178 100

176 17.7 15.0 22.4

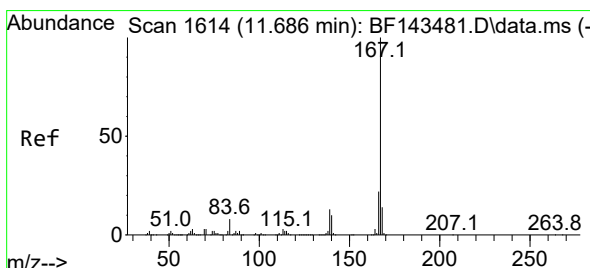
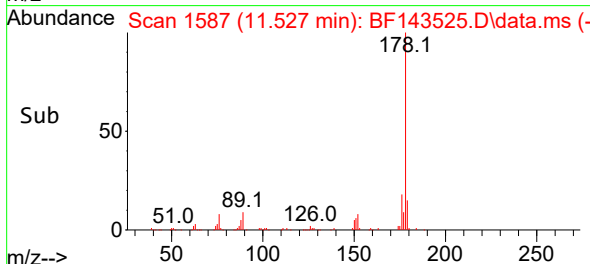
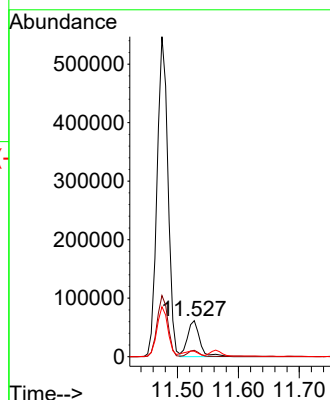
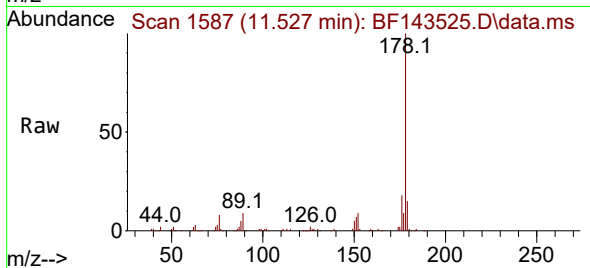
179 15.4 12.3 18.5

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Reviewed By :Rahul Chavli 08/22/2025

Supervised By :mohammad ahmed 08/22/2025



#73

Carbazole

Concen: 11.720 ng

RT: 11.680 min Scan# 1613

Delta R.T. -0.006 min

Lab File: BF143525.D

Acq: 21 Aug 2025 12:46

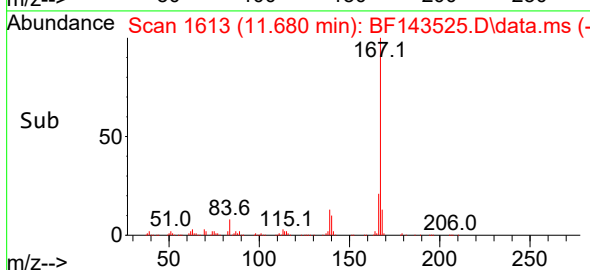
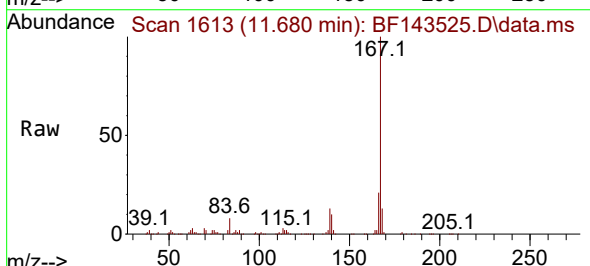
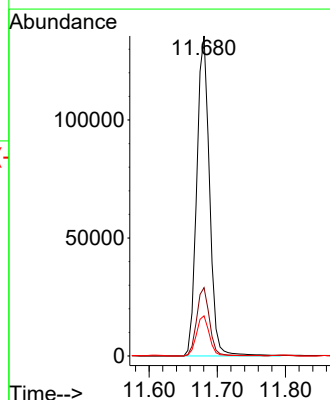
Tgt Ion:167 Resp: 176236

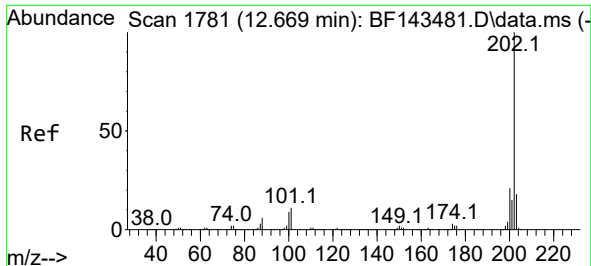
Ion Ratio Lower Upper

167 100

166 21.3 17.3 25.9

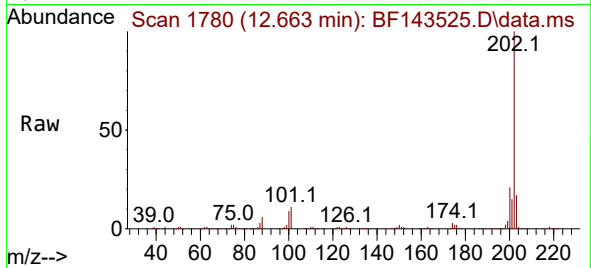
139 12.5 10.0 15.0





#75
Fluoranthene
Concen: 16.565 ng
RT: 12.663 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF143525.D
Acq: 21 Aug 2025 12:46

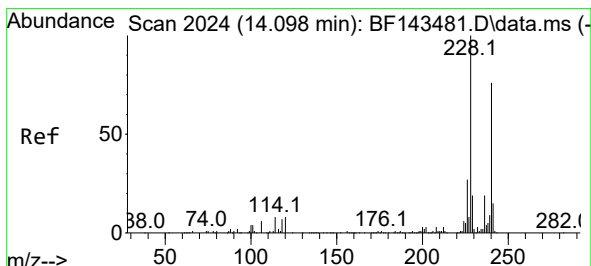
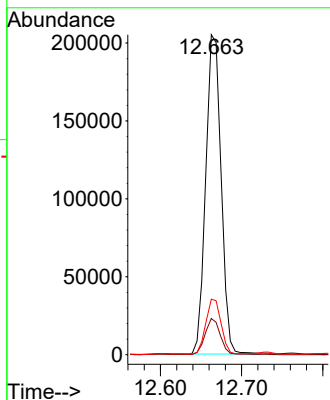
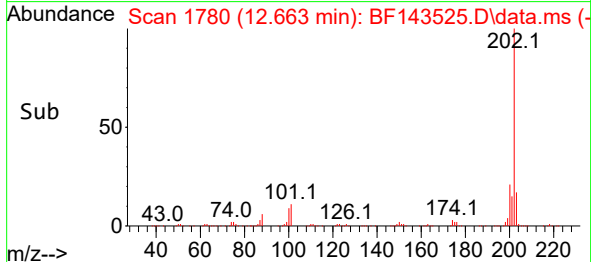
Instrument :
BNA_F
ClientSampleId :
11M-N



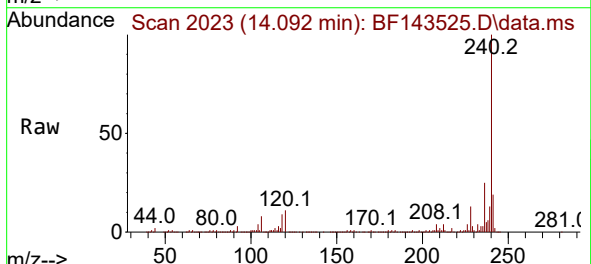
Tgt Ion:202 Resp: 26927
Ion Ratio Lower Upper
202 100
101 11.3 0.0 31.3
203 17.3 0.0 37.9

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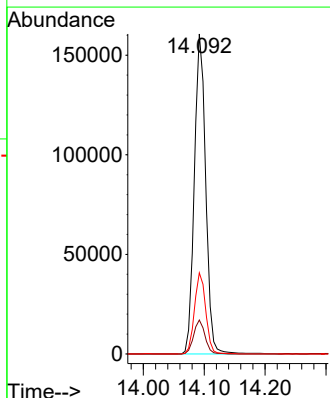
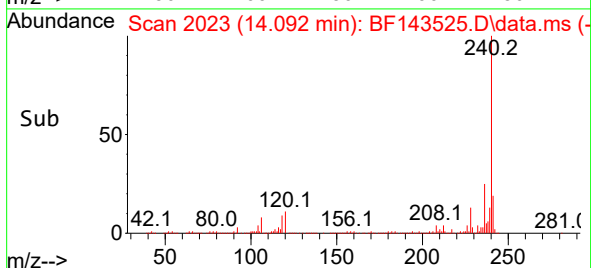
Reviewed By :Rahul Chavli 08/22/2025
Supervised By :mohammad ahmed 08/22/2025

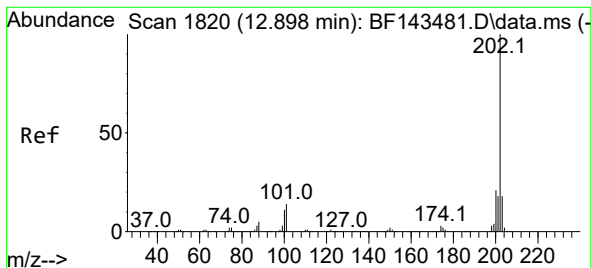


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.092 min Scan# 2023
Delta R.T. -0.012 min
Lab File: BF143525.D
Acq: 21 Aug 2025 12:46



Tgt Ion:240 Resp: 208452
Ion Ratio Lower Upper
240 100
120 10.6 8.6 12.8
236 25.4 20.4 30.6





#78

Pyrene

Concen: 9.563 ng

RT: 12.892 min Scan# 1819

Delta R.T. -0.012 min

Lab File: BF143525.D

Acq: 21 Aug 2025 12:46

Instrument :

BNA_F

ClientSampleId :

11M-N

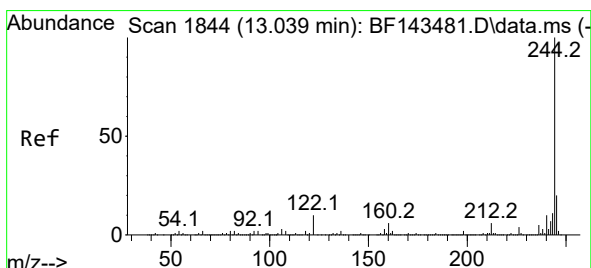
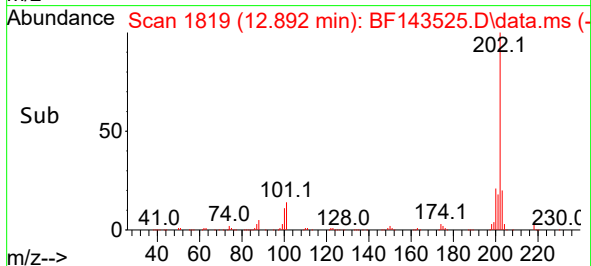
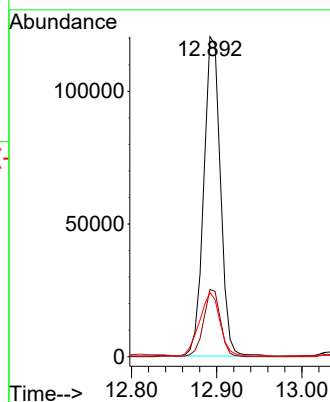
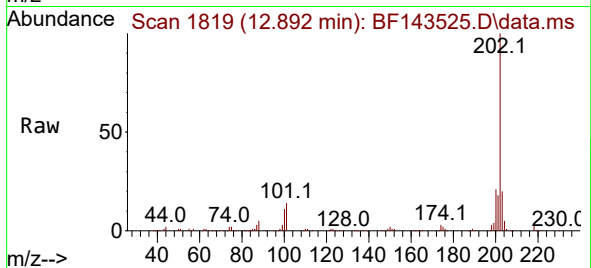
Tgt Ion:	202	Resp:	163978
Ion Ratio	Lower	Upper	
202	100		
200	21.0	17.0	25.4
203	20.0	14.3	21.5

Manual Integrations

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Reviewed By :Rahul Chavli 08/22/2025

Supervised By :mohammad ahmed 08/22/2025



#79

Terphenyl-d14

Concen: 50.494 ng

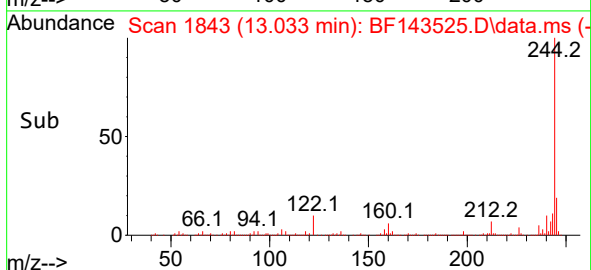
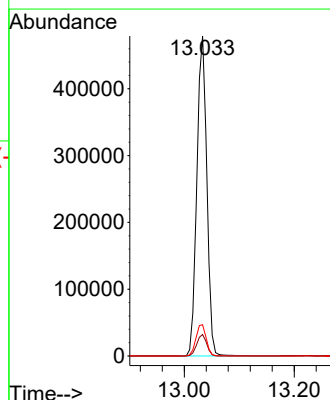
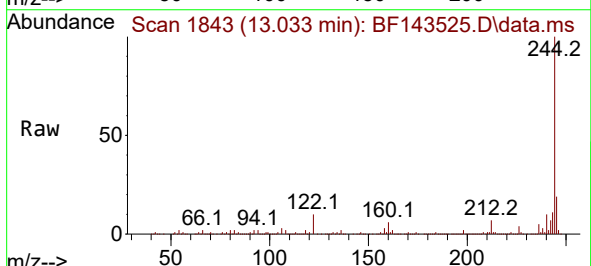
RT: 13.033 min Scan# 1843

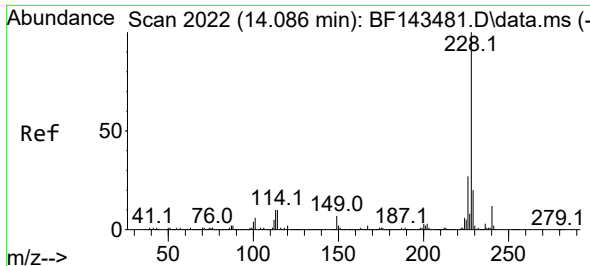
Delta R.T. -0.006 min

Lab File: BF143525.D

Acq: 21 Aug 2025 12:46

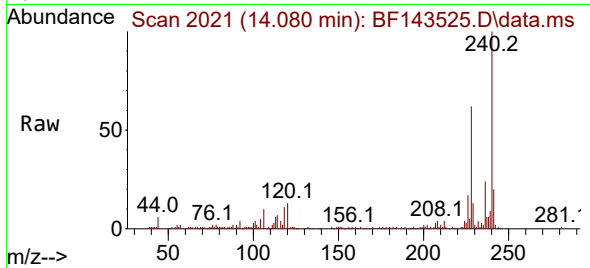
Tgt Ion:	244	Resp:	603175
Ion Ratio	Lower	Upper	
244	100		
212	6.7	5.2	7.8
122	9.7	7.9	11.9





#81
Benzo(a)anthracene
Concen: 3.675 ng
RT: 14.080 min Scan# 2022
Delta R.T. -0.012 min
Lab File: BF143525.D
Acq: 21 Aug 2025 12:46

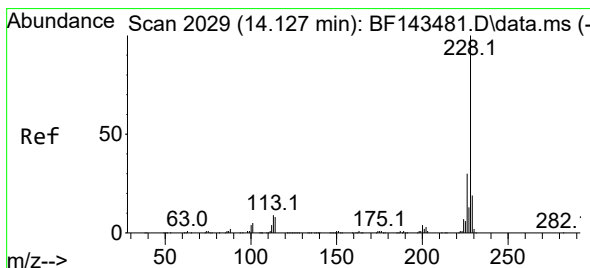
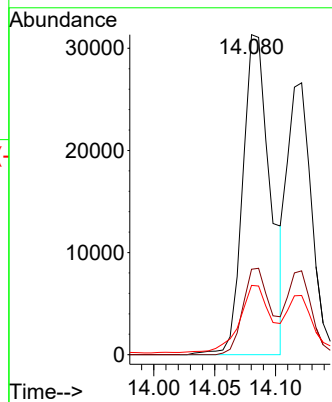
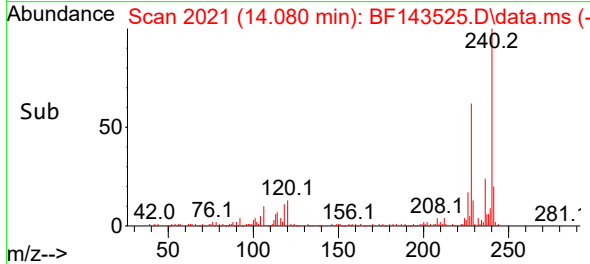
Instrument :
BNA_F
ClientSampleId :
11M-N



Tgt Ion:228 Resp: 49325
Ion Ratio Lower Upper
228 100
226 26.7 21.7 32.5
229 21.6 15.7 23.5

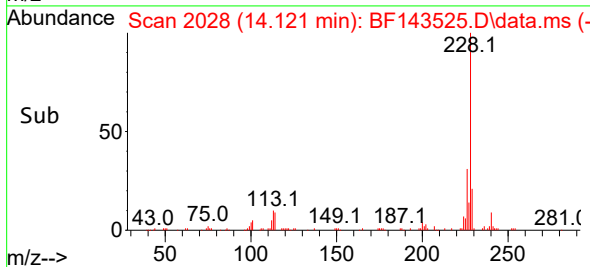
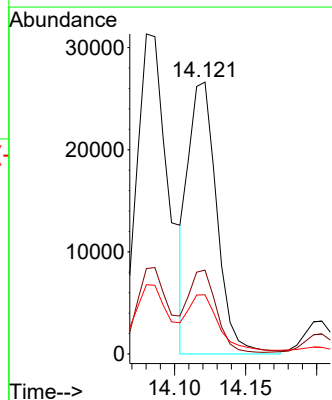
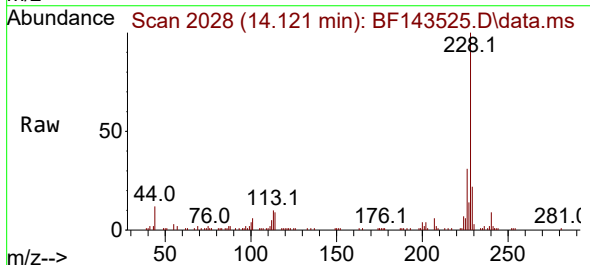
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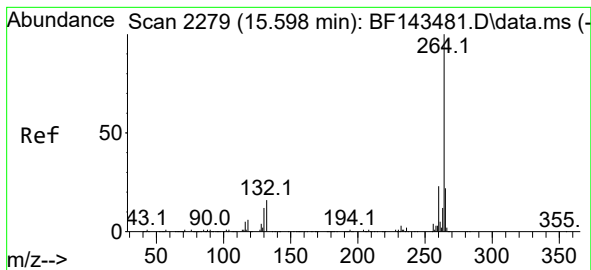
Reviewed By :Rahul Chavli 08/22/2025
Supervised By :mohammad ahmed 08/22/2025



#83
Chrysene
Concen: 3.088 ng
RT: 14.121 min Scan# 2028
Delta R.T. -0.006 min
Lab File: BF143525.D
Acq: 21 Aug 2025 12:46

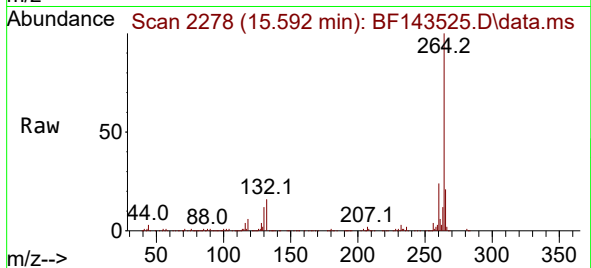
Tgt Ion:228 Resp: 37243
Ion Ratio Lower Upper
228 100
226 30.8 23.7 35.5
229 21.8 15.7 23.5





#86
Perylene-d12
Concen: 20.000 ng
RT: 15.592 min Scan# 21
Delta R.T. -0.006 min
Lab File: BF143525.D
Acq: 21 Aug 2025 12:46

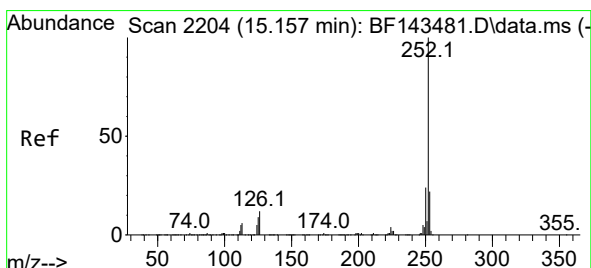
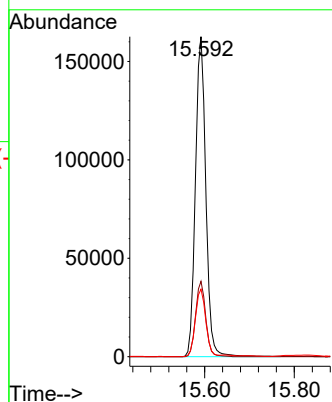
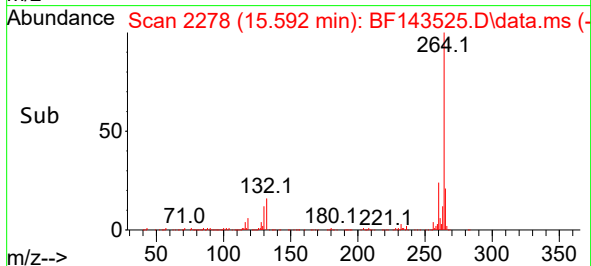
Instrument :
BNA_F
ClientSampleId :
11M-N



Tgt Ion:264 Resp: 261830
Ion Ratio Lower Upper
264 100
260 23.5 18.7 28.1
265 21.1 17.6 26.4

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Reviewed By :Rahul Chavli 08/22/2025
Supervised By :mohammad ahmed 08/22/2025



#88
Benzo(b)fluoranthene
Concen: 2.588 ng m
RT: 15.151 min Scan# 2203
Delta R.T. -0.006 min
Lab File: BF143525.D
Acq: 21 Aug 2025 12:46

Tgt Ion:252 Resp: 37661
Ion Ratio Lower Upper
252 100
253 23.5 17.5 26.3
125 11.0 7.4 11.0#

