

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082125\
 Data File : BF143526.D
 Acq On : 21 Aug 2025 13:15
 Operator : RC/JU
 Sample : Q2819-08
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 11M-E

Manual Integrations
 APPROVED

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

Quant Time: Aug 21 13:52:58 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	121867	20.000	ng	0.00
21) Naphthalene-d8	8.204	136	459647	20.000	ng	0.00
39) Acenaphthene-d10	9.963	164	239052	20.000	ng	0.00
64) Phenanthrene-d10	11.451	188	332166	20.000	ng	0.00
76) Chrysene-d12	14.092	240	225807	20.000	ng	-0.01
86) Perylene-d12	15.592	264	280214	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.563	112	417584	59.833	ng	0.00
7) Phenol-d6	6.557	99	564215	65.489	ng	-0.02
23) Nitrobenzene-d5	7.481	82	340976	43.289	ng	-0.02
42) 2,4,6-Tribromophenol	10.751	330	222437	99.962	ng	-0.01
45) 2-Fluorobiphenyl	9.281	172	790732	54.667	ng	0.00
79) Terphenyl-d14	13.033	244	779515	60.241	ng	0.00
Target Compounds						Qvalue
71) Phenanthrene	11.475	178	80869	4.546	ng	99
75) Fluoranthene	12.663	202	131237	8.222	ng	99
78) Pyrene	12.892	202	105809	5.697	ng	98
81) Benzo(a)anthracene	14.086	228	56053	3.856	ng	98
83) Chrysene	14.116	228	57195	4.378	ng	97
88) Benzo(b)fluoranthene	15.151	252	80646m	5.178	ng	
89) Benzo(k)fluoranthene	15.168	252	30208m	2.026	ng	
90) Benzo(a)pyrene	15.527	252	54410	3.763	ng	98
92) Benzo(g,h,i)perylene	17.580	276	32686	2.038	ng	96

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

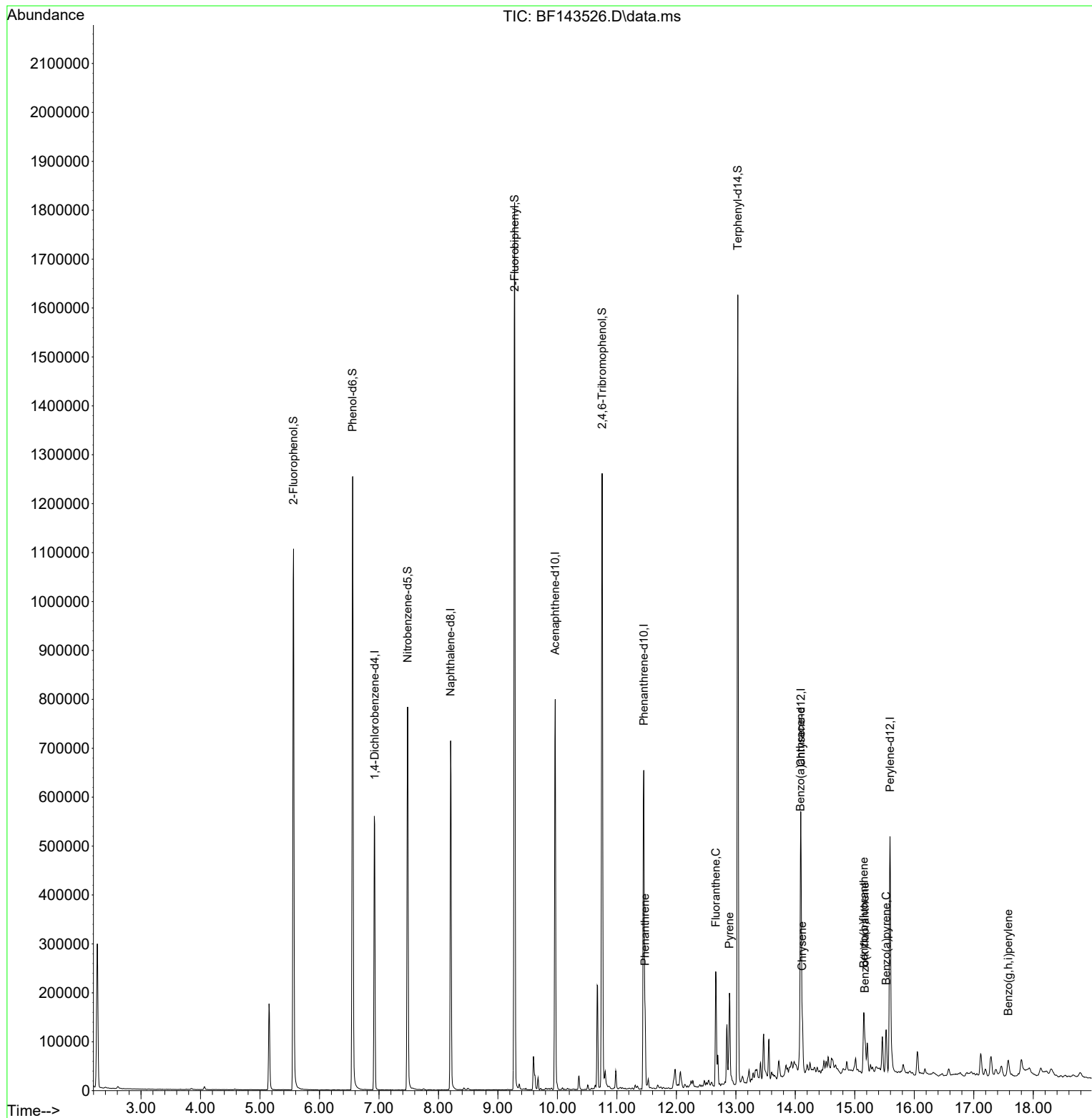
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082125\
Data File : BF143526.D
Acq On : 21 Aug 2025 13:15
Operator : RC/JU
Sample : Q2819-08
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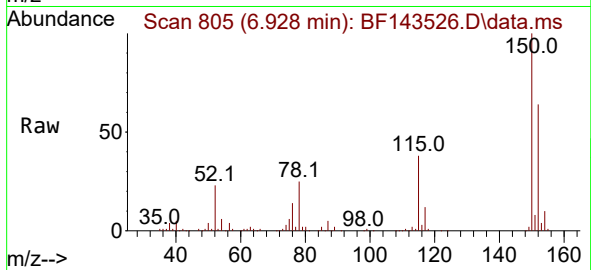
Quant Time: Aug 21 13:52:58 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 21 06:12:21 2025
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.928 min Scan# 805
Delta R.T. -0.000 min
Lab File: BF143526.D
Acq: 21 Aug 2025 13:15

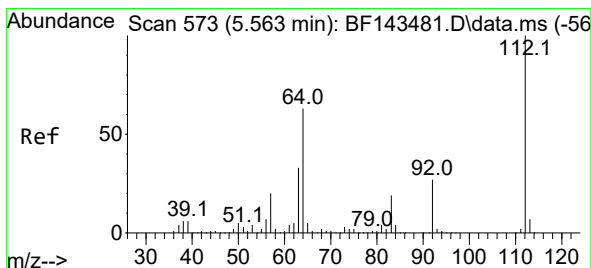
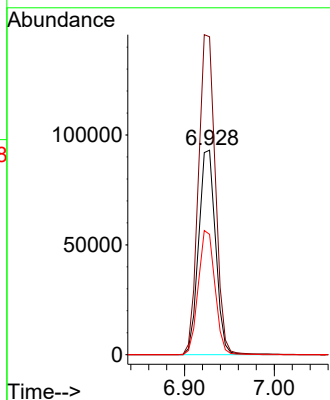
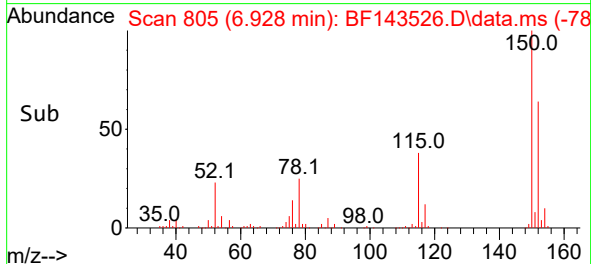
Instrument :
BNA_F
ClientSampleId :
11M-E



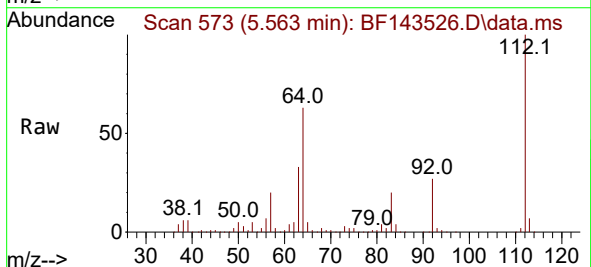
Tgt Ion:152 Resp: 12186
Ion Ratio Lower Upper
152 100
150 155.5 128.9 193.3
115 58.8 49.2 73.8

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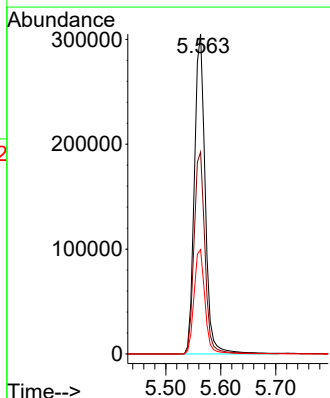
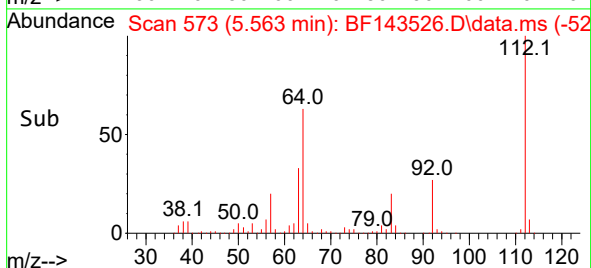
Reviewed By :Rahul Chavli 08/22/2025
Supervised By :mohammad ahmed 08/22/2025



#5
2-Fluorophenol
Concen: 59.833 ng
RT: 5.563 min Scan# 573
Delta R.T. 0.000 min
Lab File: BF143526.D
Acq: 21 Aug 2025 13:15



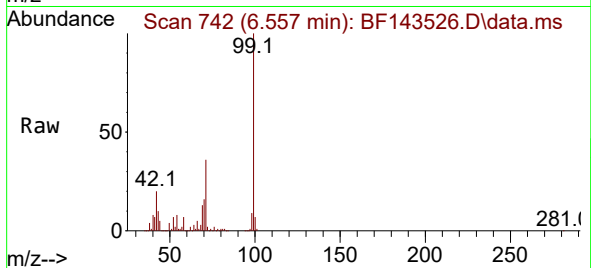
Tgt Ion:112 Resp: 417584
Ion Ratio Lower Upper
112 100
64 63.1 50.4 75.6
63 32.6 26.4 39.6





#7
Phenol-d6
Concen: 65.489 ng
RT: 6.557 min Scan# 743
Delta R.T. -0.018 min
Lab File: BF143526.D
Acq: 21 Aug 2025 13:15

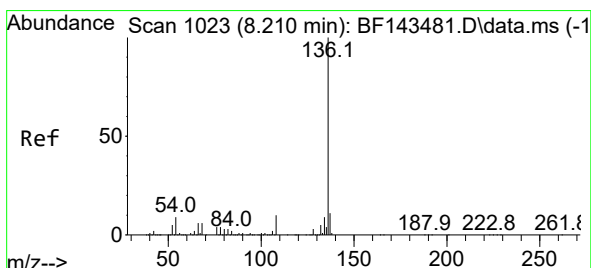
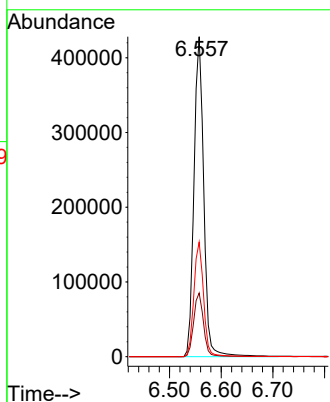
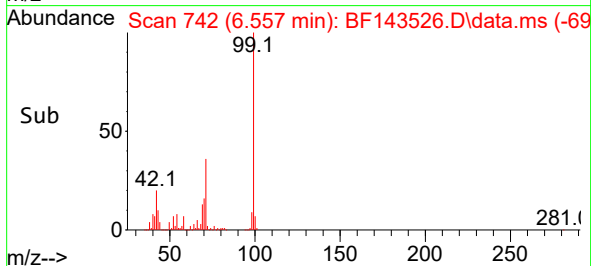
Instrument :
BNA_F
ClientSampleId :
11M-E



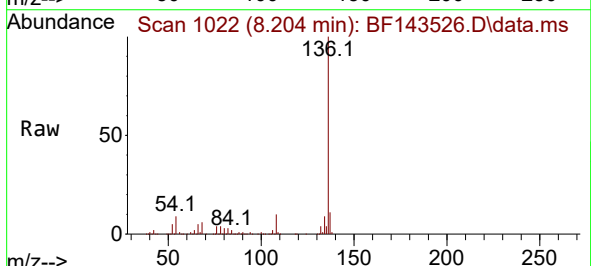
Tgt Ion: 99 Resp: 564215
Ion Ratio Lower Upper
99 100
42 19.9 16.3 24.5
71 35.8 28.2 42.2

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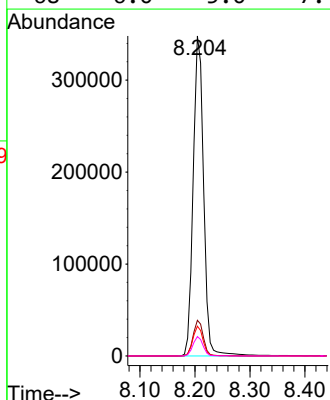
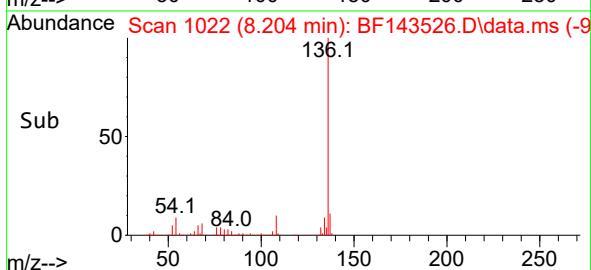
Reviewed By :Rahul Chavli 08/22/2025
Supervised By :mohammad ahmed 08/22/2025

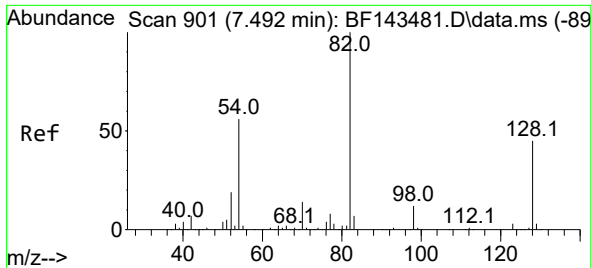


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.204 min Scan# 1022
Delta R.T. -0.006 min
Lab File: BF143526.D
Acq: 21 Aug 2025 13:15



Tgt Ion:136 Resp: 459647
Ion Ratio Lower Upper
136 100
137 11.2 9.0 13.4
54 9.3 7.4 11.2
68 6.0 5.0 7.4





#23

Nitrobenzene-d5

Concen: 43.289 ng

RT: 7.481 min Scan# 899

Delta R.T. -0.018 min

Lab File: BF143526.D

Acq: 21 Aug 2025 13:15

Instrument :

BNA_F

ClientSampleId :

11M-E

Tgt Ion: 82 Resp: 340970

Ion Ratio Lower Upper

82 100

128 43.0 35.5 53.3

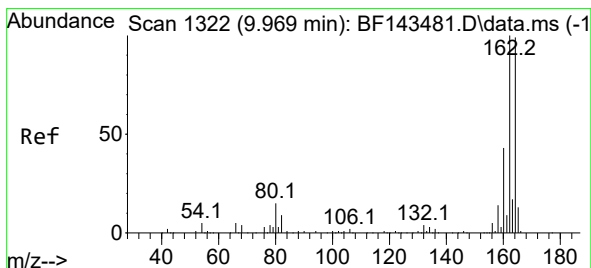
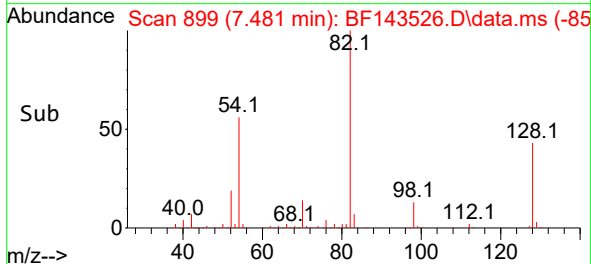
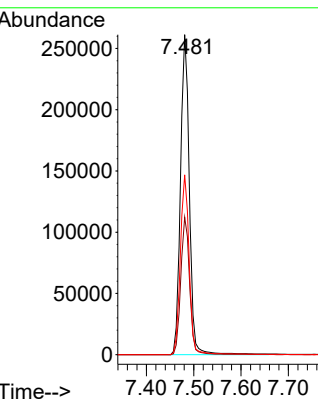
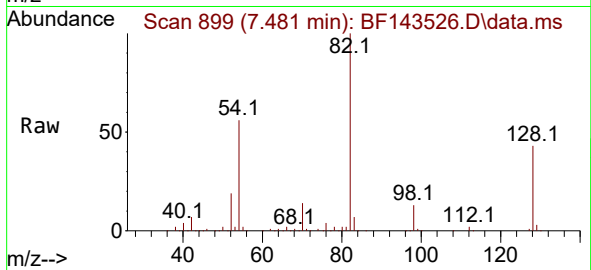
54 56.2 44.3 66.5

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#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.963 min Scan# 1321

Delta R.T. -0.006 min

Lab File: BF143526.D

Acq: 21 Aug 2025 13:15

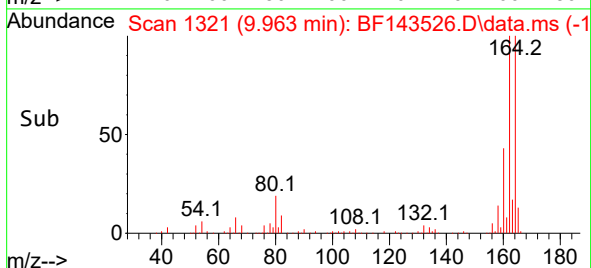
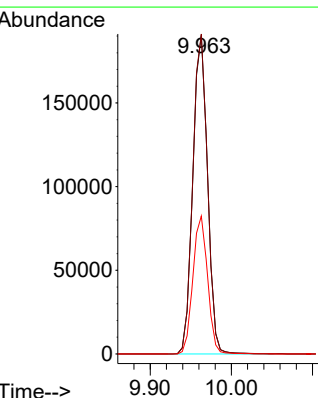
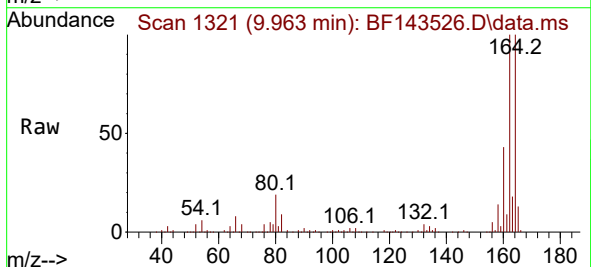
Tgt Ion:164 Resp: 239052

Ion Ratio Lower Upper

164 100

162 100.5 80.5 120.7

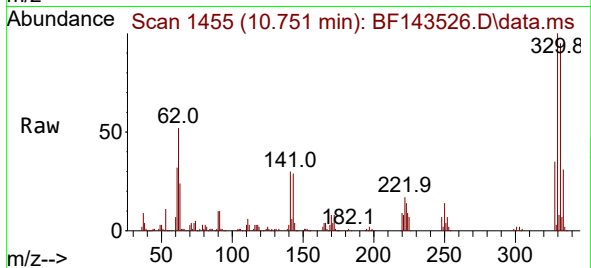
160 43.3 34.3 51.5





#42
2,4,6-Tribromophenol
Concen: 99.962 ng
RT: 10.751 min Scan# 1455
Delta R.T. -0.012 min
Lab File: BF143526.D
Acq: 21 Aug 2025 13:15

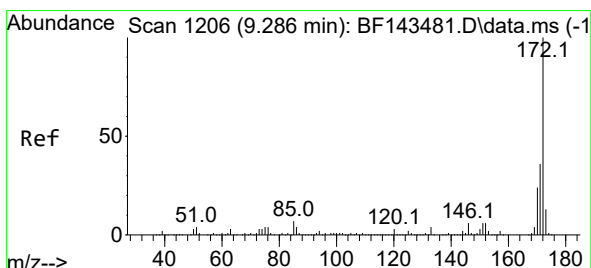
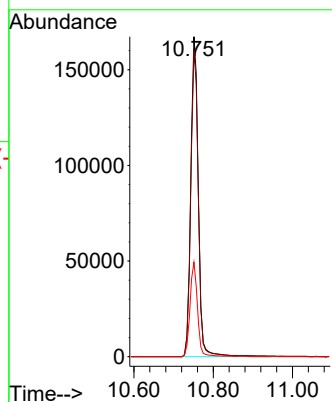
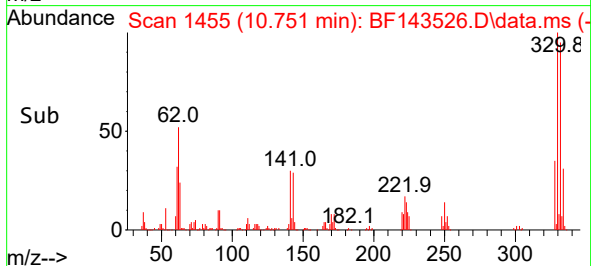
Instrument :
BNA_F
ClientSampleId :
11M-E



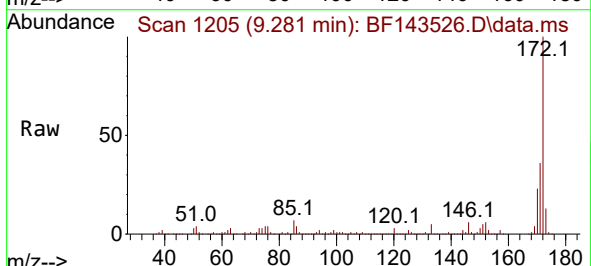
Tgt Ion: 330 Resp: 222437
Ion Ratio Lower Upper
330 100
332 95.8 78.0 117.0
141 29.3 23.7 35.5

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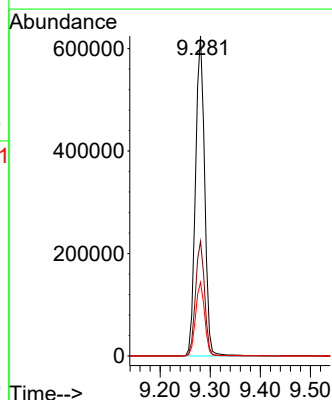
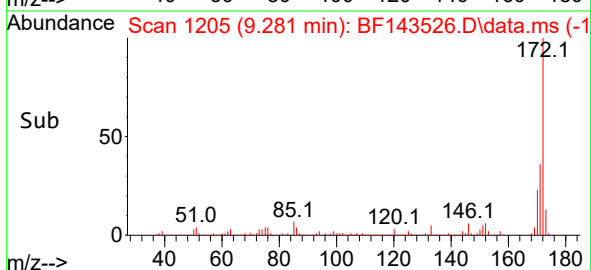
Reviewed By :Rahul Chavli 08/22/2025
Supervised By :mohammad ahmed 08/22/2025

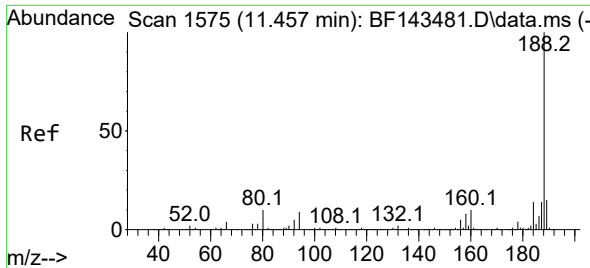


#45
2-Fluorobiphenyl
Concen: 54.667 ng
RT: 9.281 min Scan# 1205
Delta R.T. -0.006 min
Lab File: BF143526.D
Acq: 21 Aug 2025 13:15



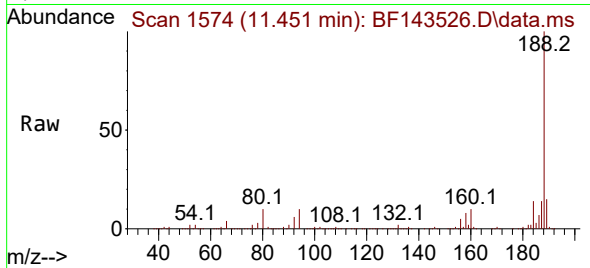
Tgt Ion: 172 Resp: 790732
Ion Ratio Lower Upper
172 100
171 35.9 28.8 43.2
170 23.0 18.8 28.2





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.451 min Scan# 1574
Delta R.T. -0.006 min
Lab File: BF143526.D
Acq: 21 Aug 2025 13:15

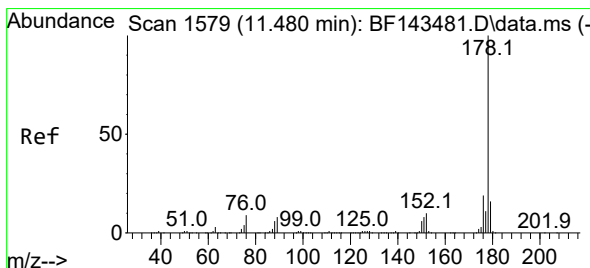
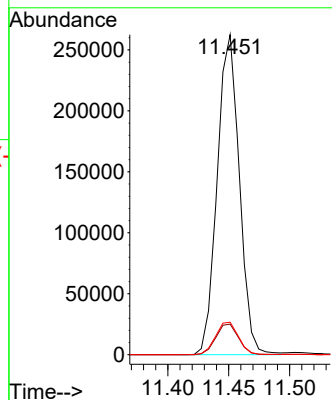
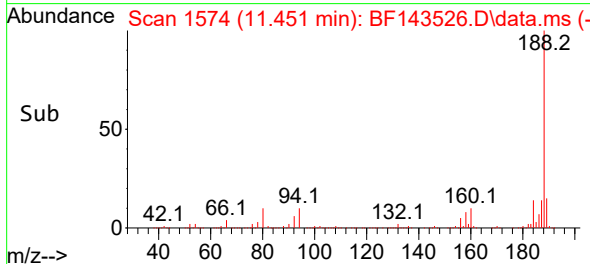
Instrument :
BNA_F
ClientSampleId :
11M-E



Tgt Ion:188 Resp: 332160
Ion Ratio Lower Upper
188 100
94 9.6 7.4 11.2
80 10.2 8.2 12.4

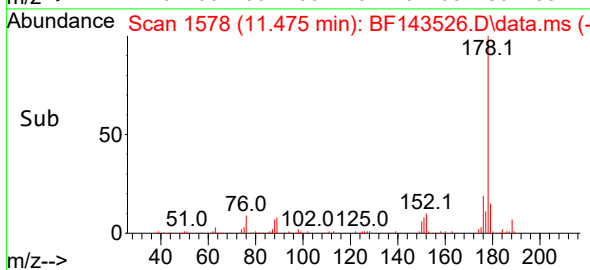
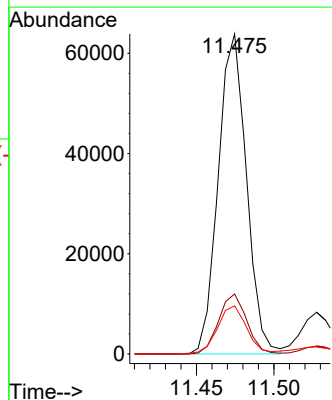
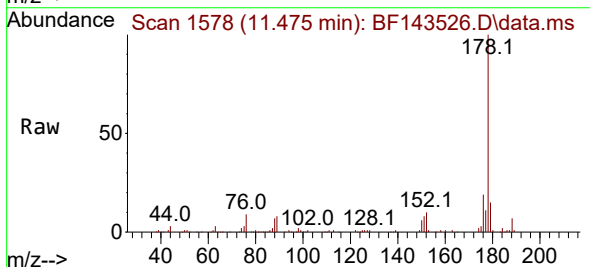
Manual Integrations
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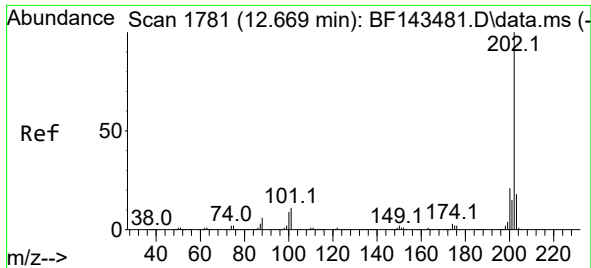
Reviewed By :Rahul Chavli 08/22/2025
Supervised By :mohammad ahmed 08/22/2025



#71
Phenanthrene
Concen: 4.546 ng
RT: 11.475 min Scan# 1578
Delta R.T. -0.006 min
Lab File: BF143526.D
Acq: 21 Aug 2025 13:15

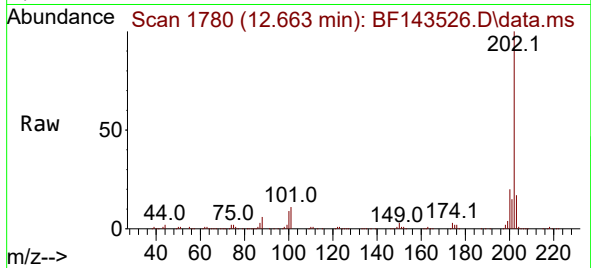
Tgt Ion:178 Resp: 80869
Ion Ratio Lower Upper
178 100
176 18.7 15.5 23.3
179 15.1 12.5 18.7





#75
Fluoranthene
Concen: 8.222 ng
RT: 12.663 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF143526.D
Acq: 21 Aug 2025 13:15

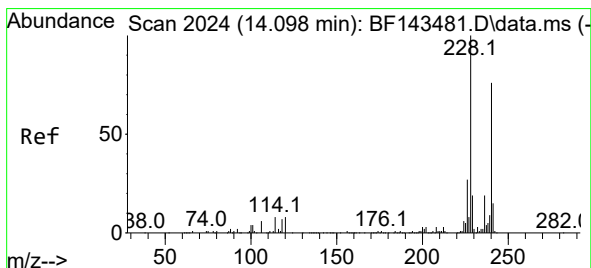
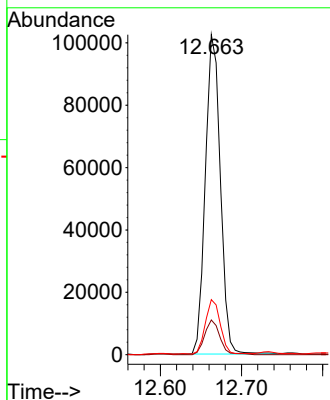
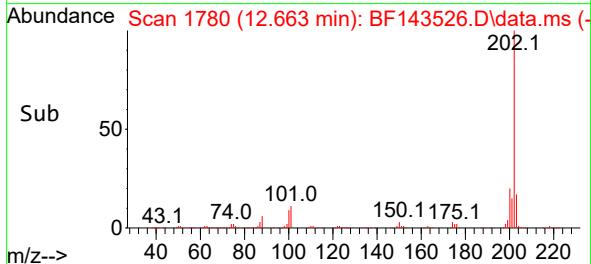
Instrument :
BNA_F
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11M-E



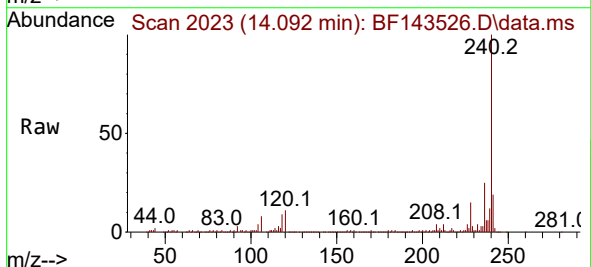
Tgt Ion:202 Resp: 13123
Ion Ratio Lower Upper
202 100
101 10.9 0.0 31.3
203 17.2 0.0 37.9

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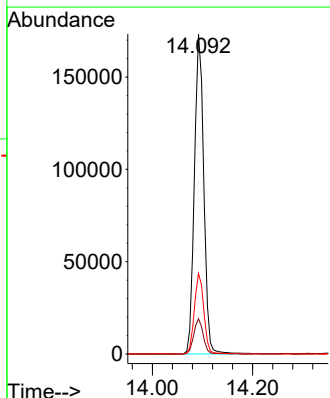
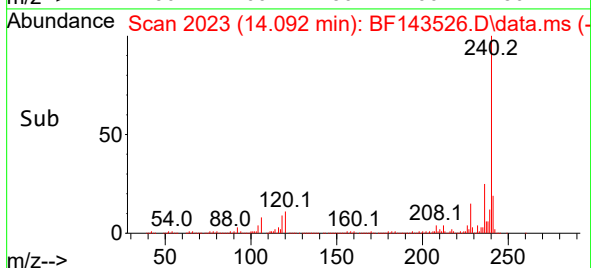
Reviewed By :Rahul Chavli 08/22/2025
Supervised By :mohammad ahmed 08/22/2025

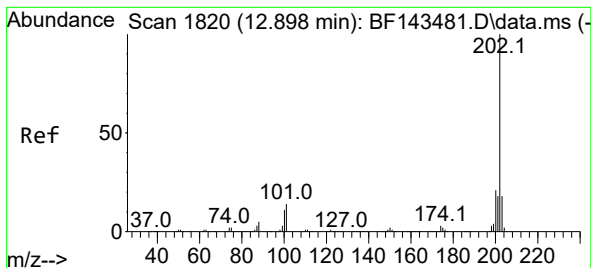


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.092 min Scan# 2023
Delta R.T. -0.012 min
Lab File: BF143526.D
Acq: 21 Aug 2025 13:15



Tgt Ion:240 Resp: 225807
Ion Ratio Lower Upper
240 100
120 11.0 8.6 12.8
236 25.1 20.4 30.6





#78

Pyrene

Concen: 5.697 ng

RT: 12.892 min Scan# 1819

Delta R.T. -0.012 min

Lab File: BF143526.D

Acq: 21 Aug 2025 13:15

Instrument :

BNA_F

ClientSampleId :

11M-E

Tgt Ion:202 Resp: 105809

Ion Ratio Lower Upper

202 100

200 21.1 17.0 25.4

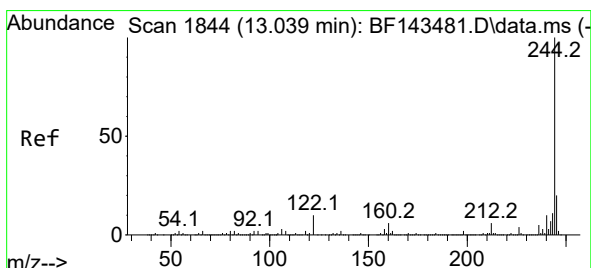
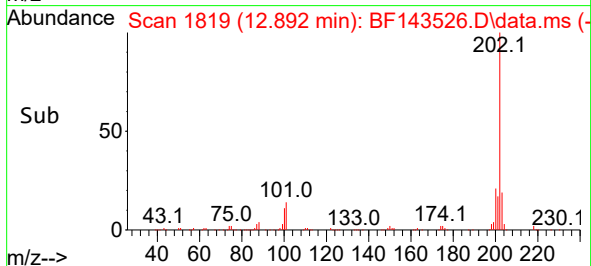
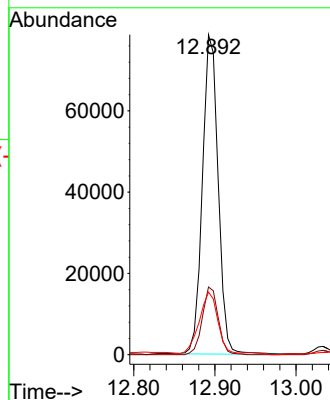
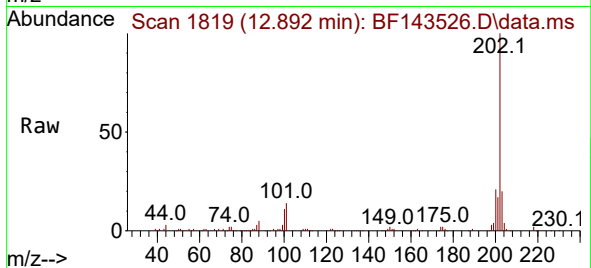
203 19.6 14.3 21.5

Manual Integrations

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Reviewed By :Rahul Chavli 08/22/2025

Supervised By :mohammad ahmed 08/22/2025



#79

Terphenyl-d14

Concen: 60.241 ng

RT: 13.033 min Scan# 1843

Delta R.T. -0.006 min

Lab File: BF143526.D

Acq: 21 Aug 2025 13:15

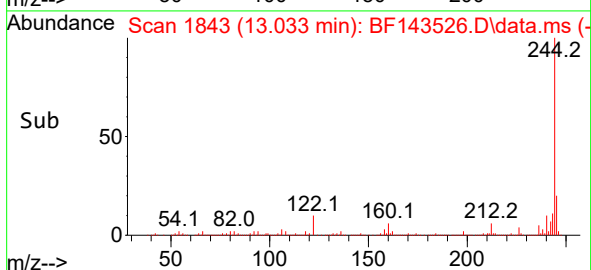
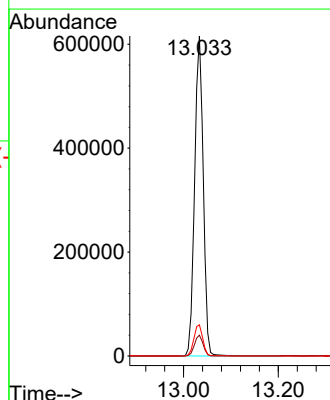
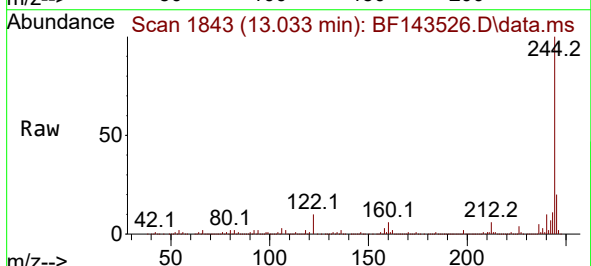
Tgt Ion:244 Resp: 779515

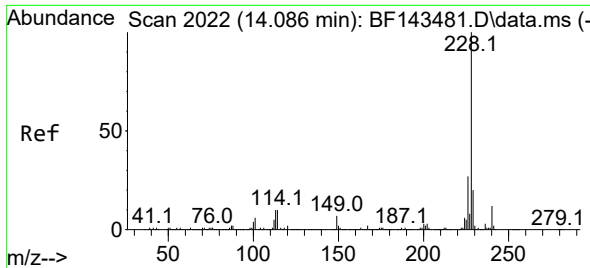
Ion Ratio Lower Upper

244 100

212 6.5 5.2 7.8

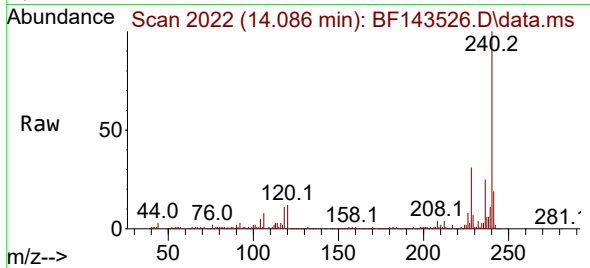
122 9.8 7.9 11.9





#81
Benzo(a)anthracene
Concen: 3.856 ng
RT: 14.086 min Scan# 2022
Delta R.T. -0.006 min
Lab File: BF143526.D
Acq: 21 Aug 2025 13:15

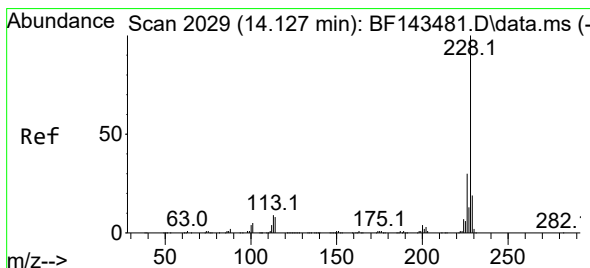
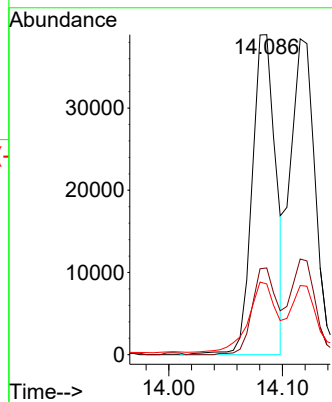
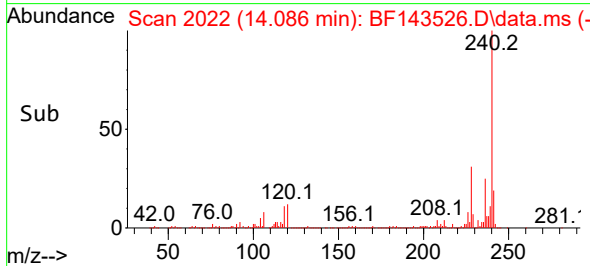
Instrument :
BNA_F
ClientSampleId :
11M-E



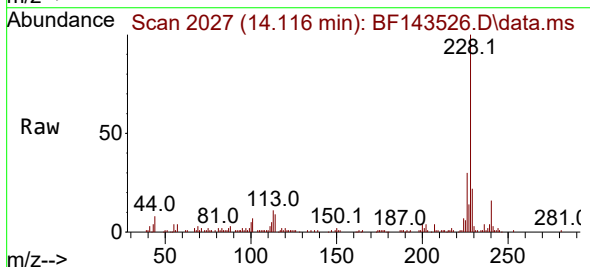
Tgt Ion:228 Resp: 5605
Ion Ratio Lower Upper
228 100
226 27.1 21.7 32.5
229 22.1 15.7 23.5

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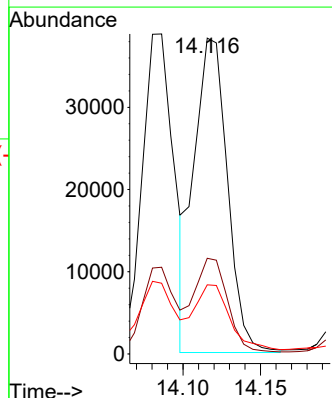
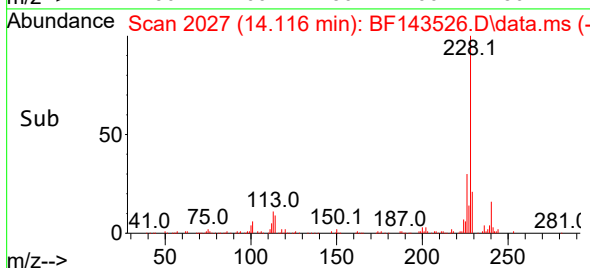
Reviewed By :Rahul Chavli 08/22/2025
Supervised By :mohammad ahmed 08/22/2025

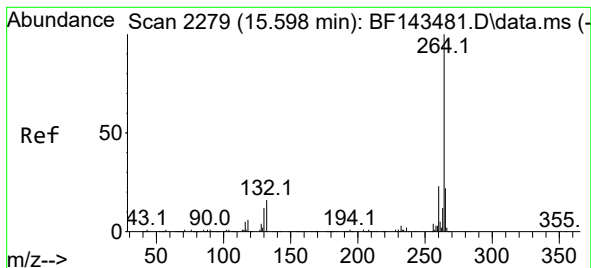


#83
Chrysene
Concen: 4.378 ng
RT: 14.116 min Scan# 2027
Delta R.T. -0.012 min
Lab File: BF143526.D
Acq: 21 Aug 2025 13:15



Tgt Ion:228 Resp: 57195
Ion Ratio Lower Upper
228 100
226 30.3 23.7 35.5
229 21.9 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: BF143526.D

Acq: 21 Aug 2025 13:15

Instrument :

BNA_F

ClientSampleId :

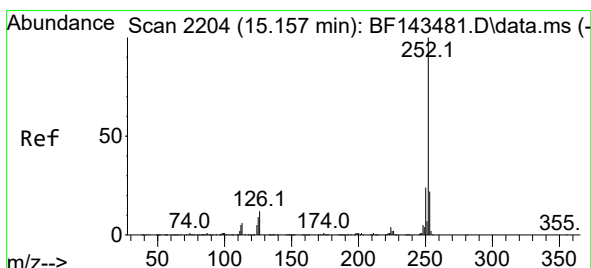
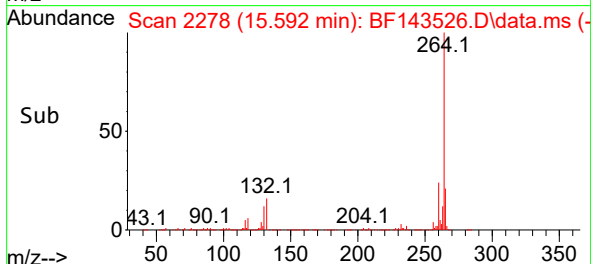
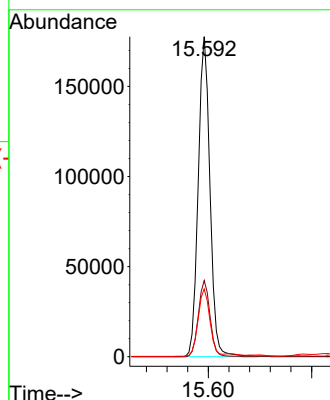
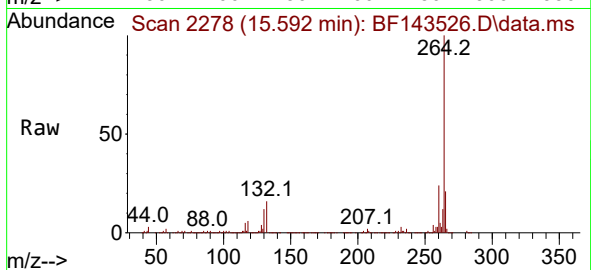
11M-E

Tgt Ion:264 Resp: 280214
 Ion Ratio Lower Upper
 264 100
 260 23.8 18.7 28.1
 265 21.2 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: 5.178 ng m

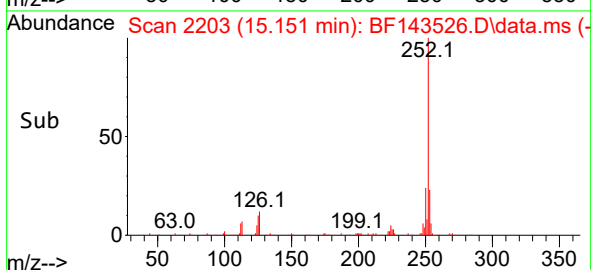
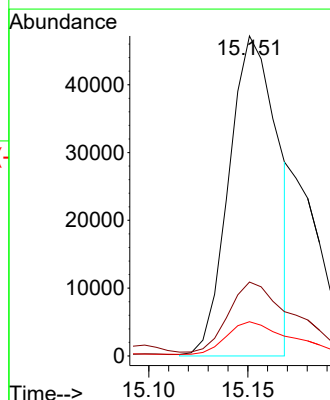
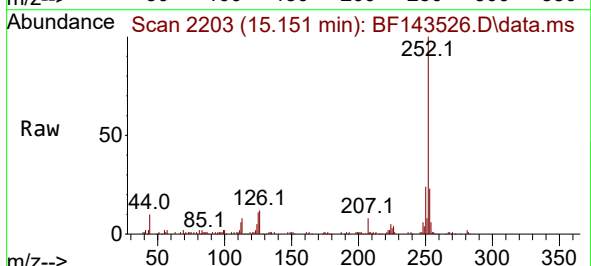
RT: 15.151 min Scan# 2203

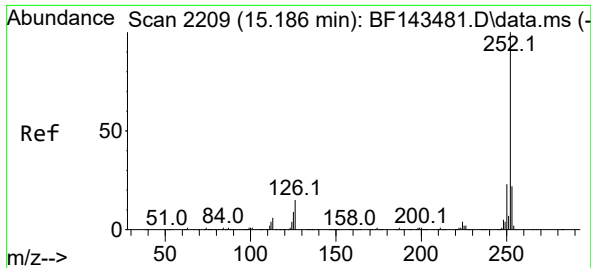
Delta R.T. -0.006 min

Lab File: BF143526.D

Acq: 21 Aug 2025 13:15

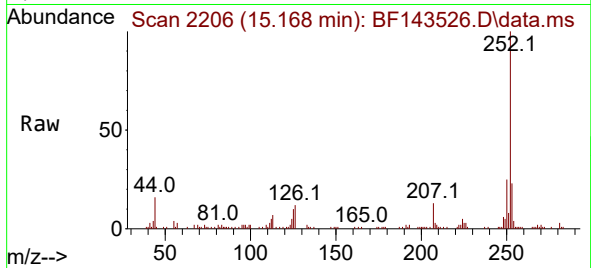
Tgt Ion:252 Resp: 80646
 Ion Ratio Lower Upper
 252 100
 253 23.1 17.5 26.3
 125 10.7 7.4 11.0





#89
Benzo(k)fluoranthene
Concen: 2.026 ng m
RT: 15.168 min Scan# 21
Delta R.T. -0.023 min
Lab File: BF143526.D
Acq: 21 Aug 2025 13:15

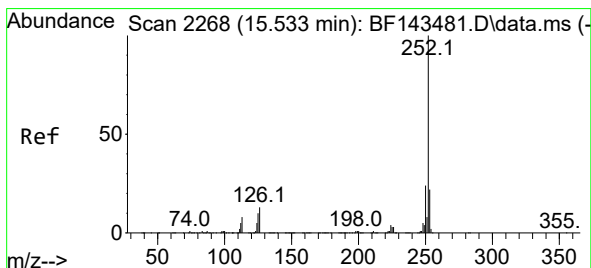
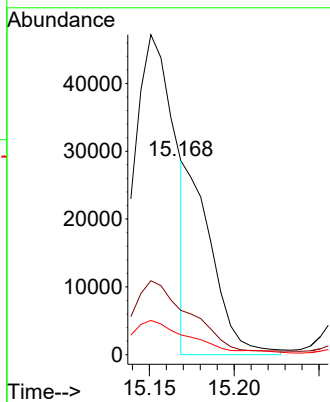
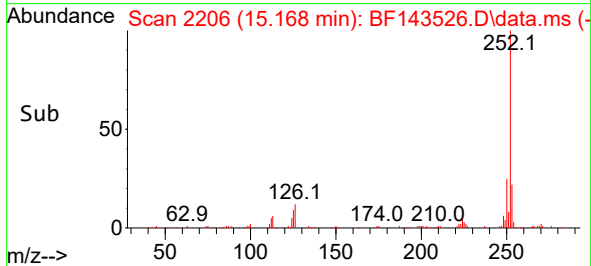
Instrument :
BNA_F
ClientSampleId :
11M-E



Tgt Ion:252 Resp: 30208
Ion Ratio Lower Upper
252 100
253 22.8 17.4 26.2
125 10.2 7.4 11.0

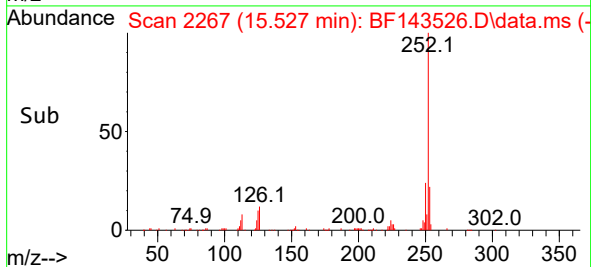
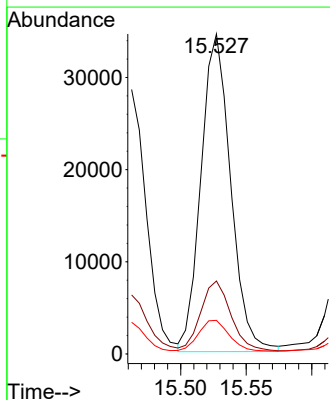
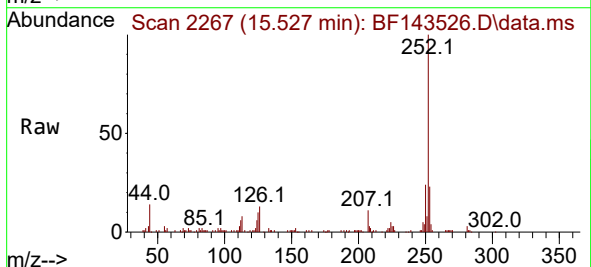
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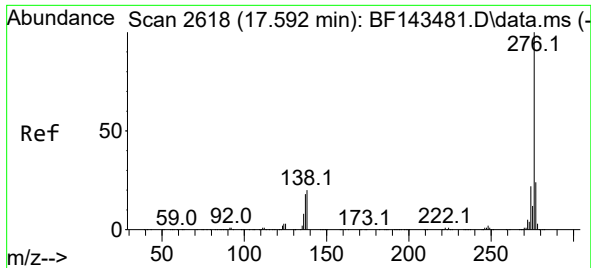
Reviewed By :Rahul Chavli 08/22/2025
Supervised By :mohammad ahmed 08/22/2025



#90
Benzo(a)pyrene
Concen: 3.763 ng
RT: 15.527 min Scan# 2267
Delta R.T. -0.012 min
Lab File: BF143526.D
Acq: 21 Aug 2025 13:15

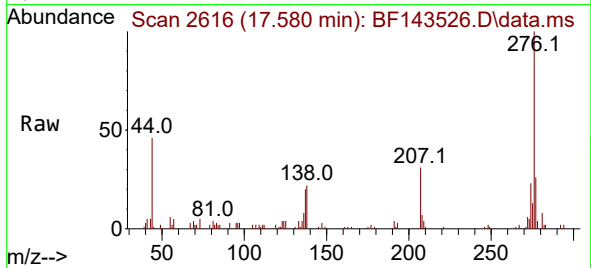
Tgt Ion:252 Resp: 54410
Ion Ratio Lower Upper
252 100
253 22.8 17.4 26.0
125 10.5 8.2 12.2





#92
Benzo(g,h,i)perylene
Concen: 2.038 ng
RT: 17.580 min Scan# 20
Delta R.T. -0.023 min
Lab File: BF143526.D
Acq: 21 Aug 2025 13:15

Instrument :
BNA_F
ClientSampleId :
11M-E



Tgt Ion:276 Resp: 32680
Ion Ratio Lower Upper
276 100
277 26.0 18.9 28.3
138 22.1 16.3 24.5

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

