

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080625\
 Data File : BF143333.D
 Acq On : 06 Aug 2025 16:43
 Operator : RC/JU
 Sample : Q2774-05
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 R5

Manual Integrations
 APPROVED

Reviewed By :Rahul Chavli 08/07/2025
 Supervised By :Jagrut Upadhyay 08/07/2025

Quant Time: Aug 06 17:04:16 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF071725.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jul 17 15:14:05 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.963	152	68653	20.000	ng	0.00
21) Naphthalene-d8	8.240	136	236177	20.000	ng	0.00
39) Acenaphthene-d10	9.998	164	105443	20.000	ng	0.00
64) Phenanthrene-d10	11.486	188	173518	20.000	ng	# 0.00
76) Chrysene-d12	14.133	240	182814	20.000	ng	0.01
86) Perylene-d12	15.645	264	142597	20.000	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.599	112	344743	79.464	ng	0.01
7) Phenol-d6	6.587	99	396719	72.651	ng	0.00
23) Nitrobenzene-d5	7.516	82	261243	55.137	ng	0.00
42) 2,4,6-Tribromophenol	10.786	330	107401	98.598	ng	0.00
45) 2-Fluorobiphenyl	9.316	172	446490	57.911	ng	0.00
79) Terphenyl-d14	13.069	244	477444	38.864	ng	0.00
Target Compounds						Qvalue
49) Acenaphthylene	9.857	152	30894	3.029	ng	97
58) Fluorene	10.545	166	16750	2.493	ng	# 88
71) Phenanthrene	11.516	178	370334	40.196	ng	99
72) Anthracene	11.563	178	59794m	6.363	ng	
73) Carbazole	11.716	167	45801	5.582	ng	# 86
75) Fluoranthene	12.710	202	1120071	132.450	ng	99
78) Pyrene	12.939	202	1151632	73.812	ng	98
81) Benzo(a)anthracene	14.122	228	506172	41.356	ng	96
83) Chrysene	14.157	228	535113	48.627	ng	98
87) Indeno(1,2,3-cd)pyrene	17.186	276	230605	22.934	ng	95
88) Benzo(b)fluoranthene	15.204	252	606037m	69.568	ng	
89) Benzo(k)fluoranthene	15.216	252	264605m	34.039	ng	
90) Benzo(a)pyrene	15.580	252	393531	49.031	ng	98
91) Dibenzo(a,h)anthracene	17.198	278	49896m	6.097	ng	
92) Benzo(g,h,i)perylene	17.657	276	255690	32.297	ng	100

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

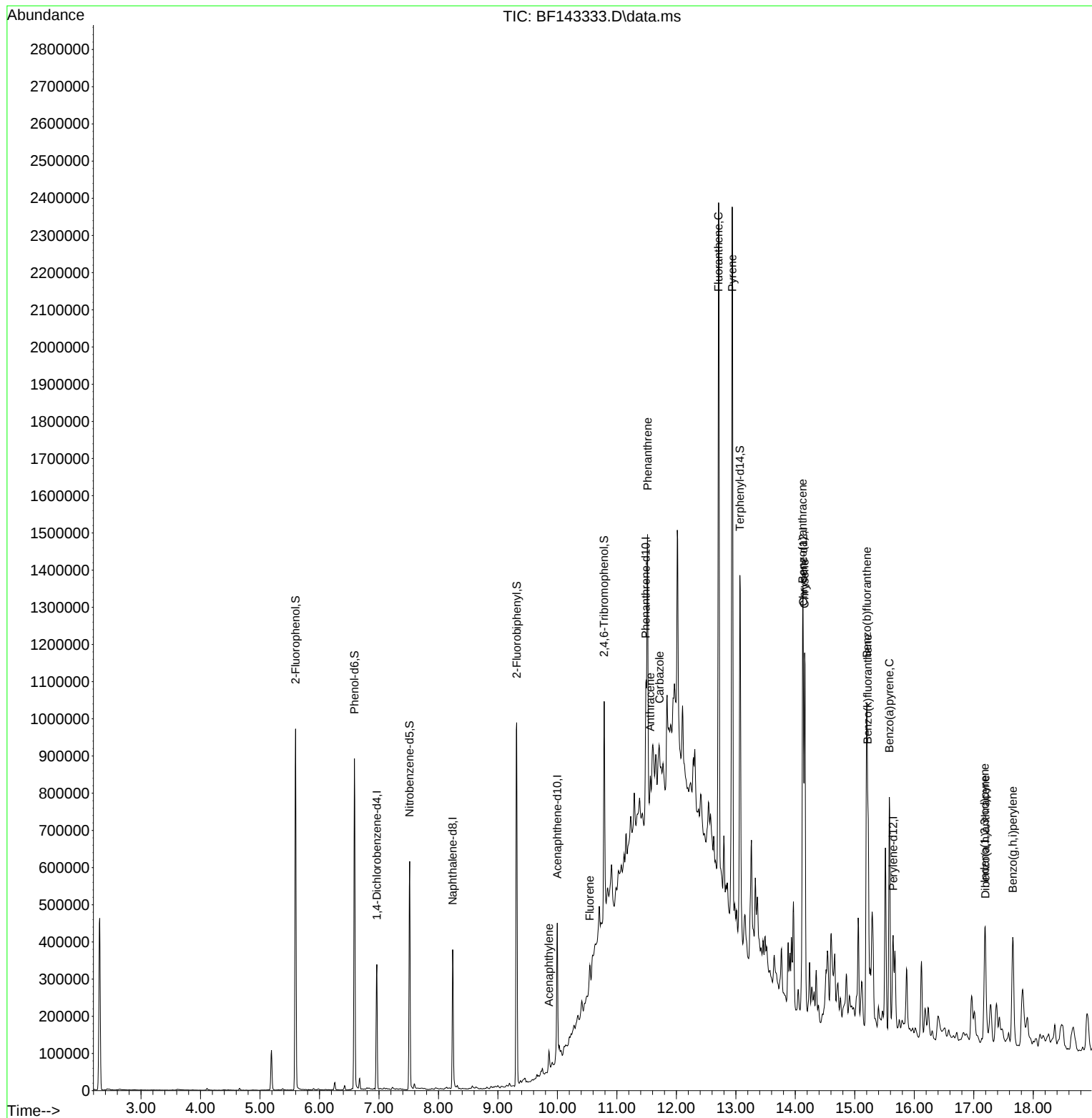
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080625\
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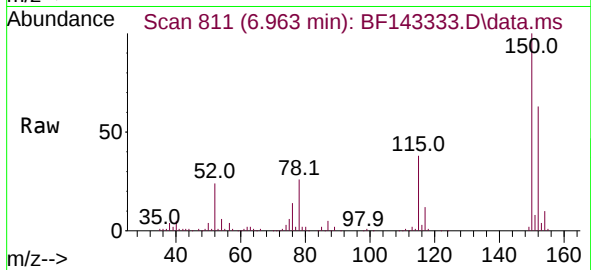
Reviewed By :Rahul Chavli 08/07/2025
Supervised By :Jagrut Upadhyay 08/07/2025





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.963 min Scan# 811
Delta R.T. 0.000 min
Lab File: BF143333.D
Acq: 06 Aug 2025 16:43

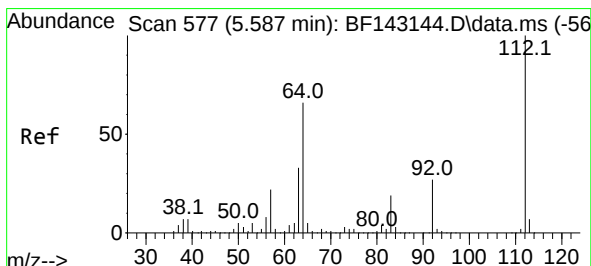
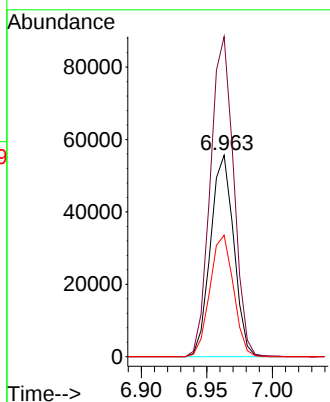
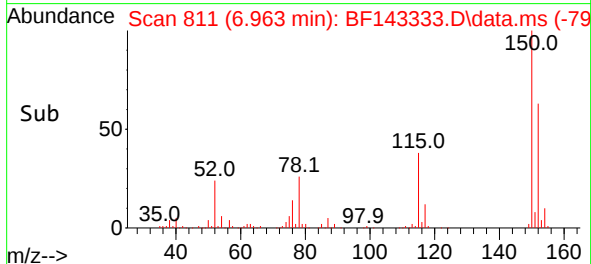
Instrument :
BNA_F
ClientSampleId :
R5



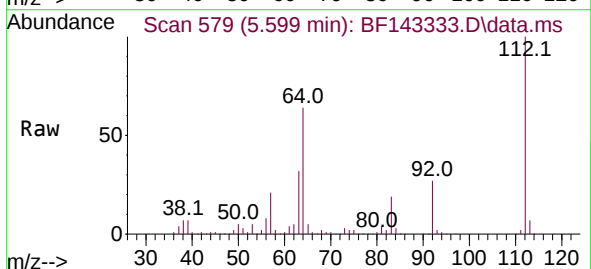
Tgt Ion:152 Resp: 6865
Ion Ratio Lower Upper
152 100
150 158.8 128.2 192.4
115 60.3 47.9 71.9

Manual Integrations
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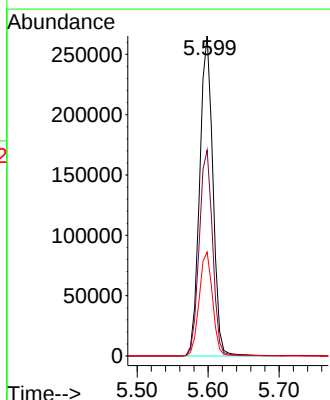
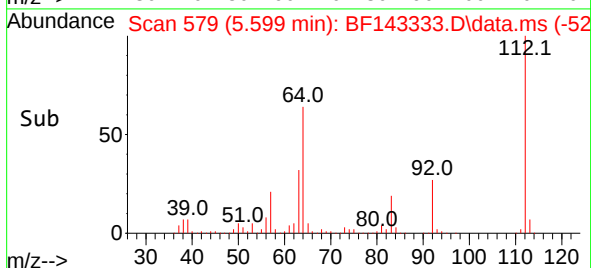
Reviewed By :Rahul Chavli 08/07/2025
Supervised By :Jagrut Upadhyay 08/07/2025



#5
2-Fluorophenol
Concen: 79.464 ng
RT: 5.599 min Scan# 579
Delta R.T. 0.012 min
Lab File: BF143333.D
Acq: 06 Aug 2025 16:43



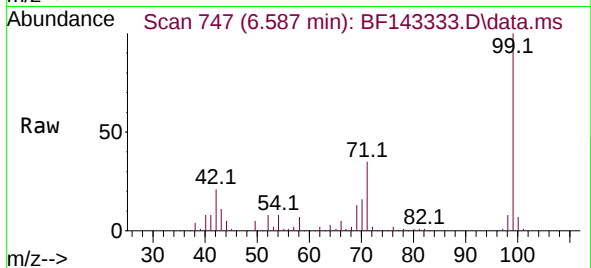
Tgt Ion:112 Resp: 344743
Ion Ratio Lower Upper
112 100
64 64.4 53.1 79.7
63 32.5 26.6 40.0





#7
Phenol-d6
Concen: 72.651 ng
RT: 6.587 min Scan# 747
Delta R.T. 0.000 min
Lab File: BF143333.D
Acq: 06 Aug 2025 16:43

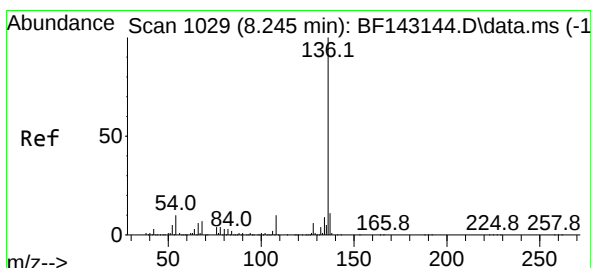
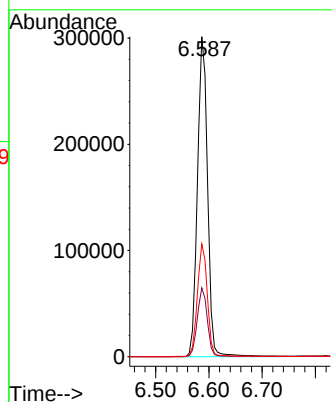
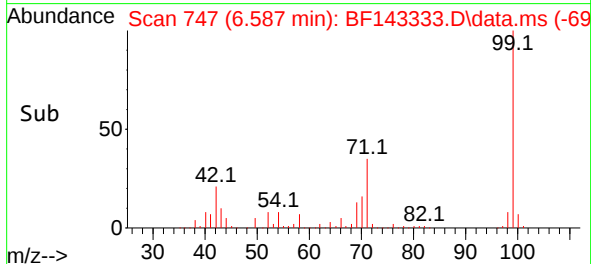
Instrument :
BNA_F
ClientSampleId :
R5



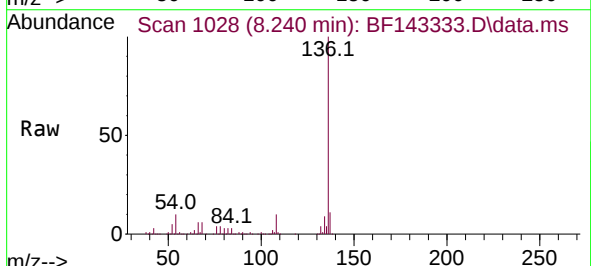
Tgt Ion: 99 Resp: 396719
Ion Ratio Lower Upper
99 100
42 21.5 17.0 25.6
71 35.2 27.7 41.5

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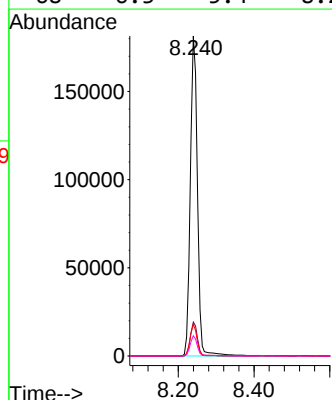
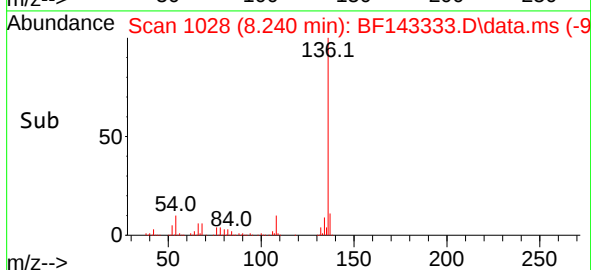
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Supervised By :Jagrut Upadhyay 08/07/2025

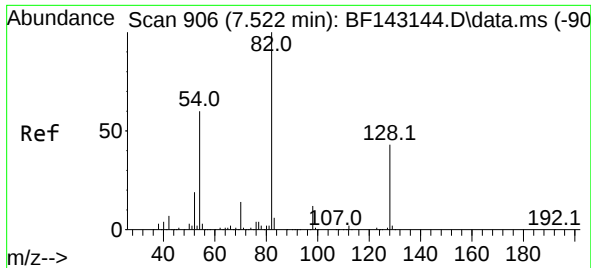


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.240 min Scan# 1028
Delta R.T. -0.005 min
Lab File: BF143333.D
Acq: 06 Aug 2025 16:43



Tgt Ion:136 Resp: 236177
Ion Ratio Lower Upper
136 100
137 10.6 8.6 13.0
54 9.8 8.2 12.2
68 6.3 5.4 8.2





#23

Nitrobenzene-d5

Concen: 55.137 ng

RT: 7.516 min Scan# 906

Delta R.T. -0.006 min

Lab File: BF143333.D

Acq: 06 Aug 2025 16:43

Instrument :

BNA_F

ClientSampleId :

R5

Tgt Ion: 82 Resp: 26124

Ion Ratio Lower Upper

82 100

128 44.0 33.6 50.4

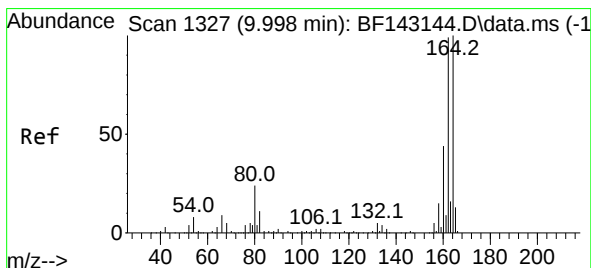
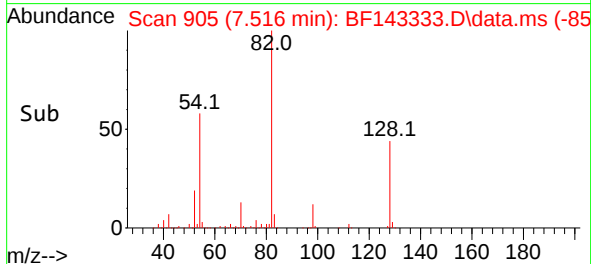
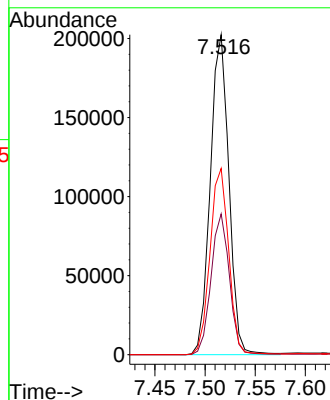
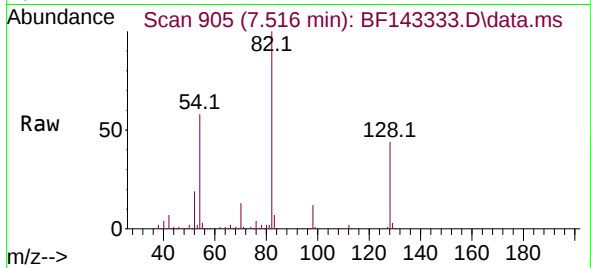
54 58.2 47.1 70.7

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#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.998 min Scan# 1327

Delta R.T. 0.000 min

Lab File: BF143333.D

Acq: 06 Aug 2025 16:43

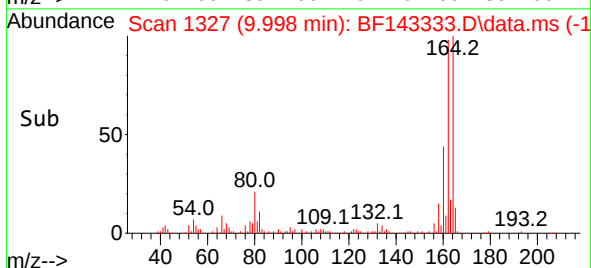
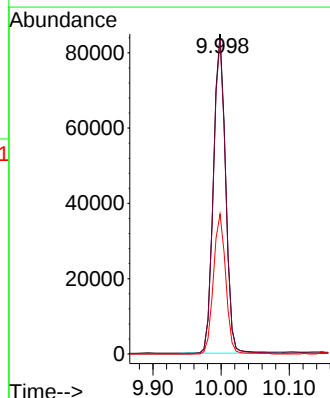
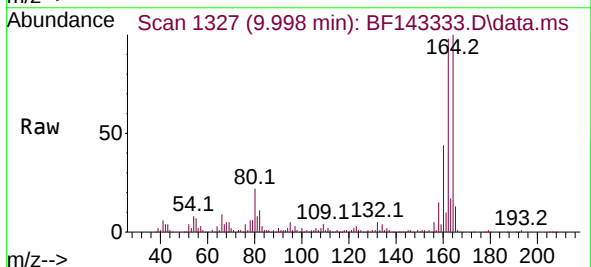
Tgt Ion:164 Resp: 105443

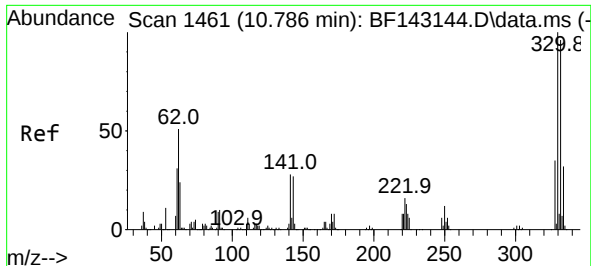
Ion Ratio Lower Upper

164 100

162 98.2 79.0 118.6

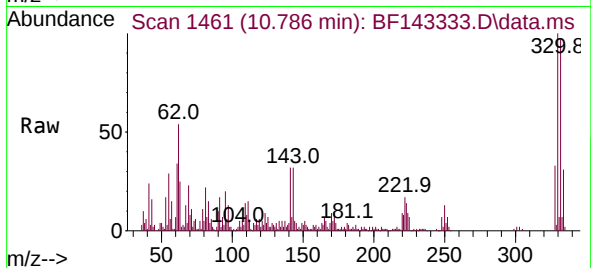
160 43.7 35.1 52.7





#42
2,4,6-Tribromophenol
Concen: 98.598 ng
RT: 10.786 min Scan# 1461
Delta R.T. 0.000 min
Lab File: BF143333.D
Acq: 06 Aug 2025 16:43

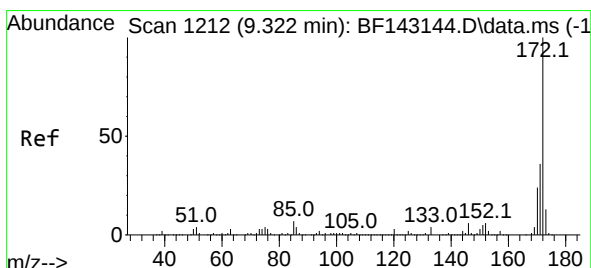
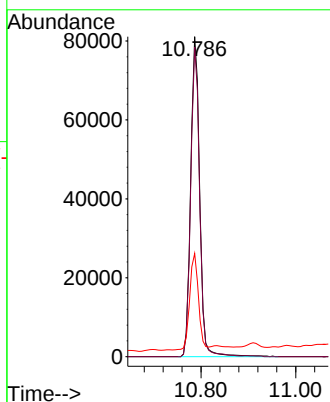
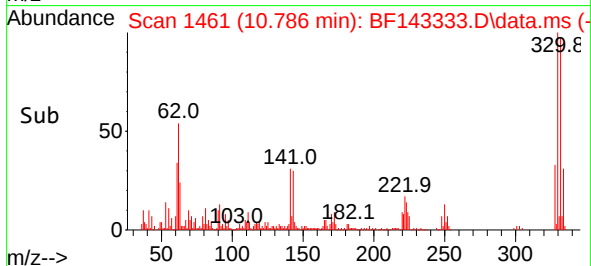
Instrument :
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ClientSampleId :
R5



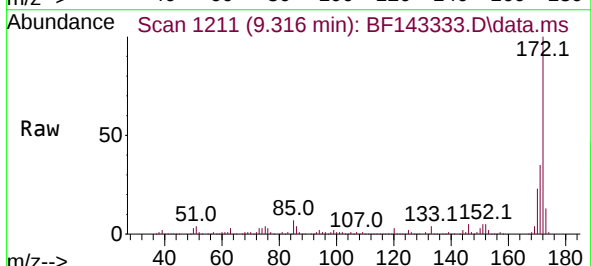
Tgt Ion:330 Resp: 10740
Ion Ratio Lower Upper
330 100
332 95.5 76.7 115.1
141 29.1 23.3 34.9

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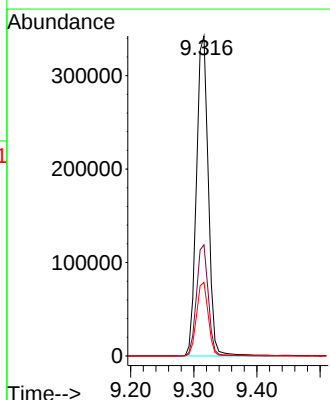
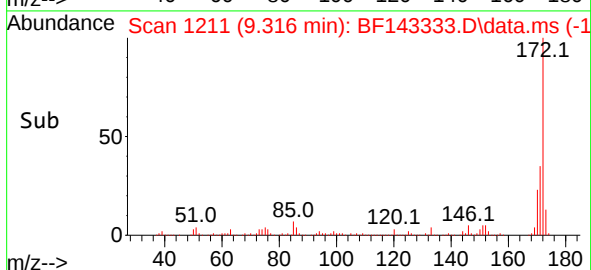
Reviewed By :Rahul Chavli 08/07/2025
Supervised By :Jagrut Upadhyay 08/07/2025

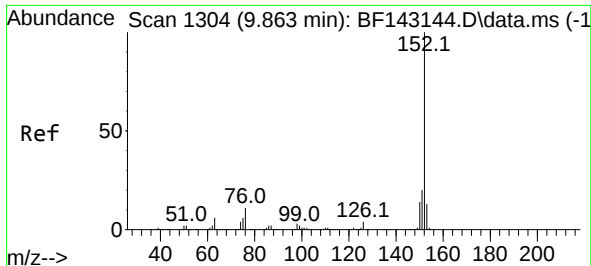


#45
2-Fluorobiphenyl
Concen: 57.911 ng
RT: 9.316 min Scan# 1211
Delta R.T. -0.006 min
Lab File: BF143333.D
Acq: 06 Aug 2025 16:43



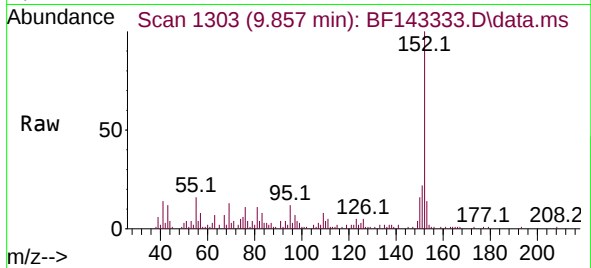
Tgt Ion:172 Resp: 446490
Ion Ratio Lower Upper
172 100
171 34.7 28.6 42.8
170 23.0 18.8 28.2





#49
Acenaphthylene
Concen: 3.029 ng
RT: 9.857 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF143333.D
Acq: 06 Aug 2025 16:43

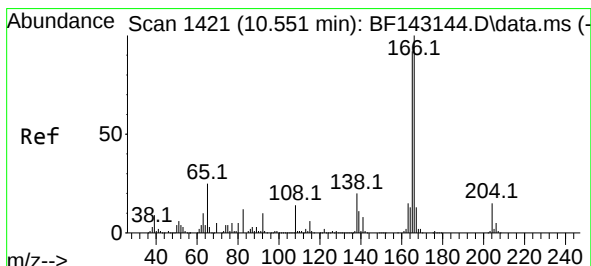
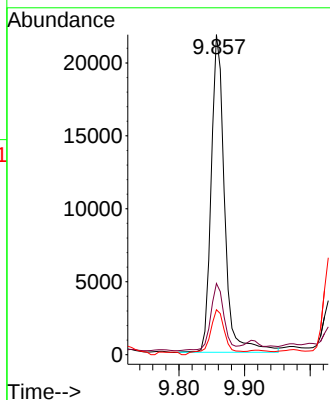
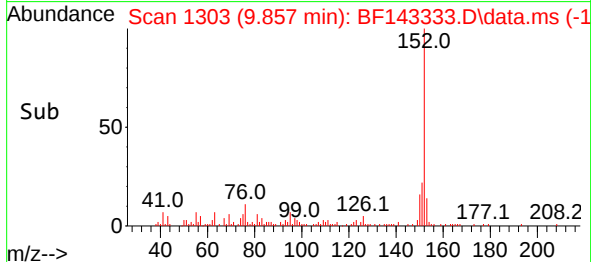
Instrument :
BNA_F
ClientSampleId :
R5



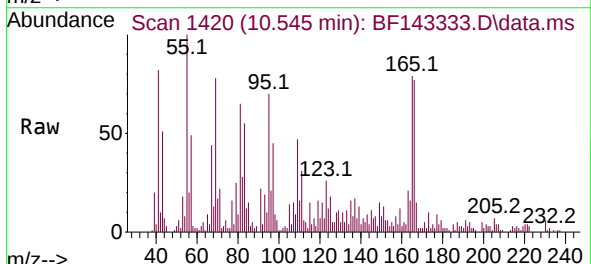
Tgt Ion:152 Resp: 30894
Ion Ratio Lower Upper
152 100
151 22.3 16.2 24.2
153 14.0 10.6 16.0

Manual Integrations
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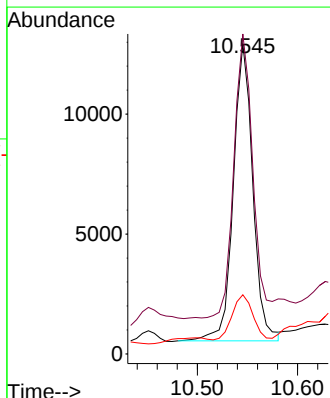
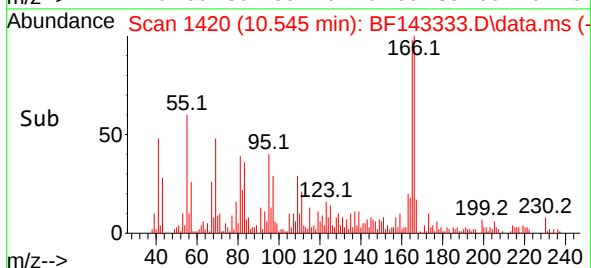
Reviewed By :Rahul Chavli 08/07/2025
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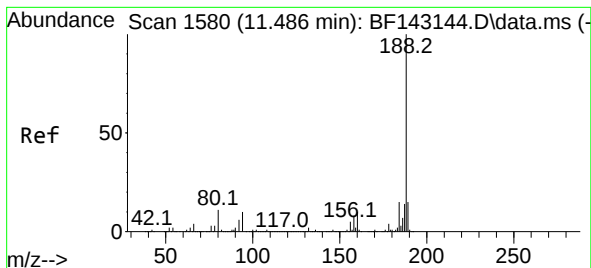


#58
Fluorene
Concen: 2.493 ng
RT: 10.545 min Scan# 1420
Delta R.T. -0.006 min
Lab File: BF143333.D
Acq: 06 Aug 2025 16:43



Tgt Ion:166 Resp: 16750
Ion Ratio Lower Upper
166 100
165 103.1 73.7 110.5
167 19.1 10.6 16.0#





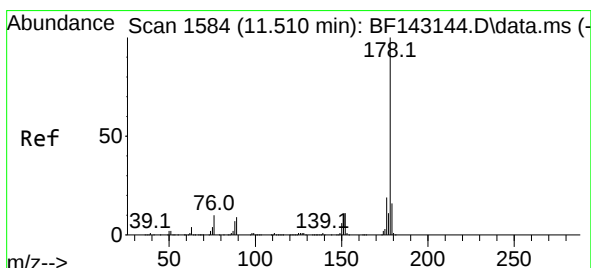
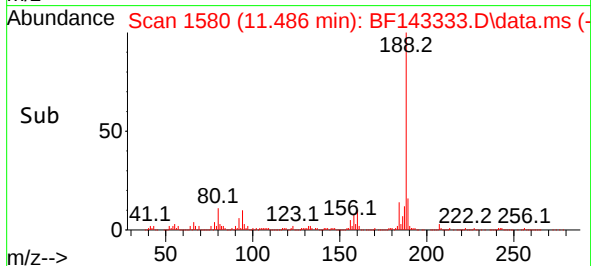
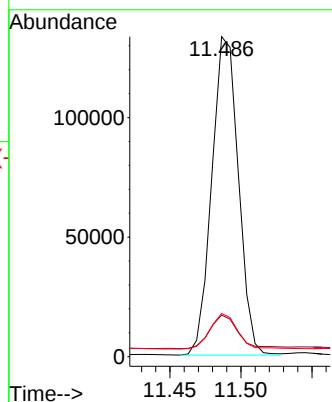
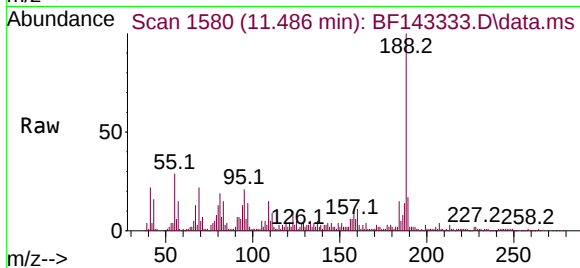
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.486 min Scan# 1580
Delta R.T. 0.000 min
Lab File: BF143333.D
Acq: 06 Aug 2025 16:43

Instrument :
BNA_F
ClientSampleId :
R5

Tgt Ion:188 Resp: 173518
Ion Ratio Lower Upper
188 100
94 13.0 8.3 12.5
80 13.5 9.0 13.6

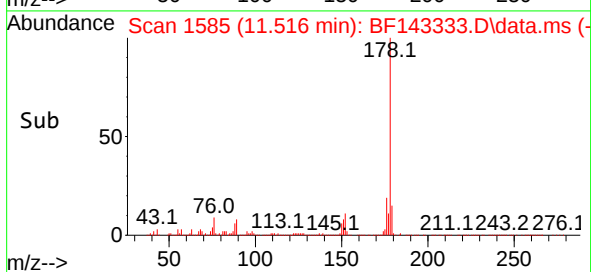
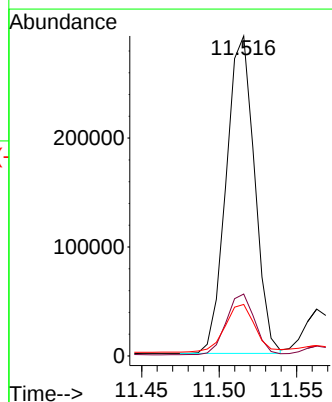
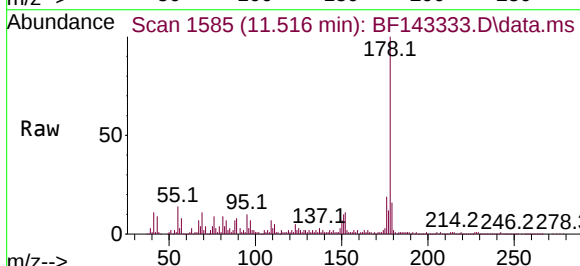
Manual Integrations
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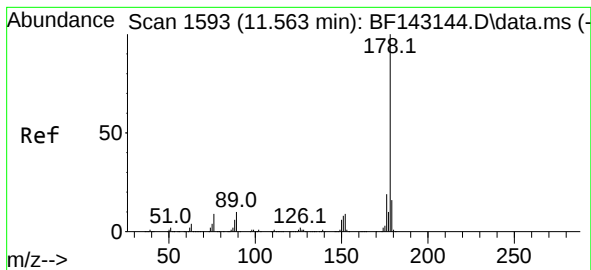
Reviewed By :Rahul Chavli 08/07/2025
Supervised By :Jagrut Upadhyay 08/07/2025



#71
Phenanthrene
Concen: 40.196 ng
RT: 11.516 min Scan# 1585
Delta R.T. 0.006 min
Lab File: BF143333.D
Acq: 06 Aug 2025 16:43

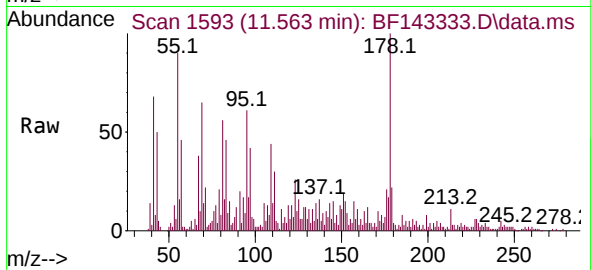
Tgt Ion:178 Resp: 370334
Ion Ratio Lower Upper
178 100
176 19.4 15.3 22.9
179 16.1 12.5 18.7





#72
 Anthracene
 Concen: 6.363 ng m
 RT: 11.563 min Scan# 11593
 Delta R.T. 0.000 min
 Lab File: BF143333.D
 Acq: 06 Aug 2025 16:43

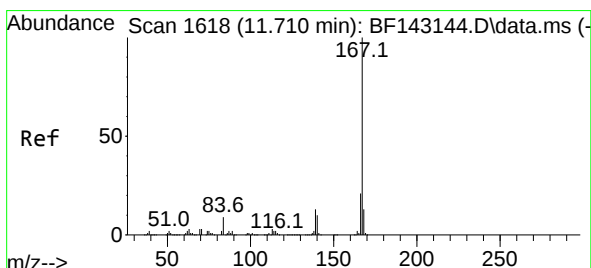
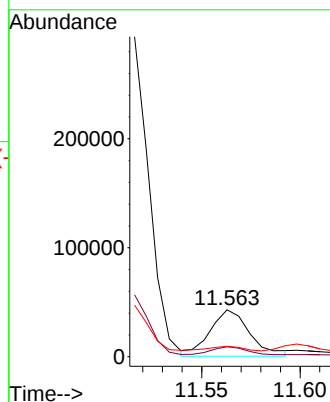
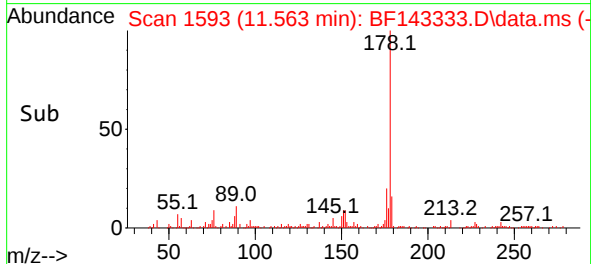
Instrument :
 BNA_F
 ClientSampleId :
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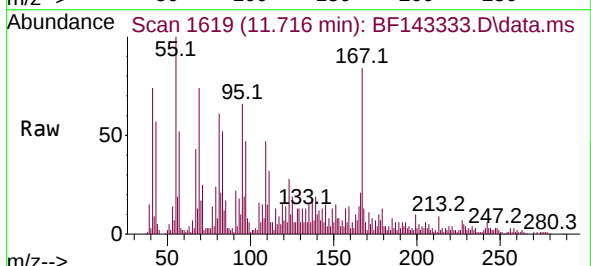
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 Ion Ratio Lower Upper
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 176 21.2 15.0 22.4
 179 22.3 12.5 18.7

Manual Integrations
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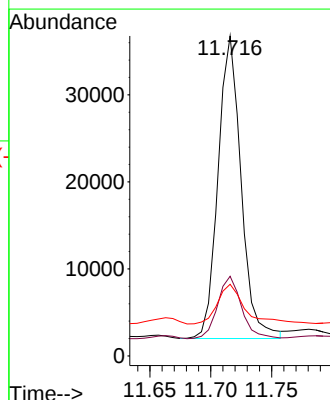
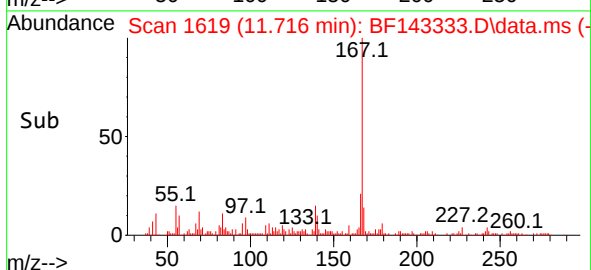
Reviewed By :Rahul Chavli 08/07/2025
 Supervised By :Jagrut Upadhyay 08/07/2025

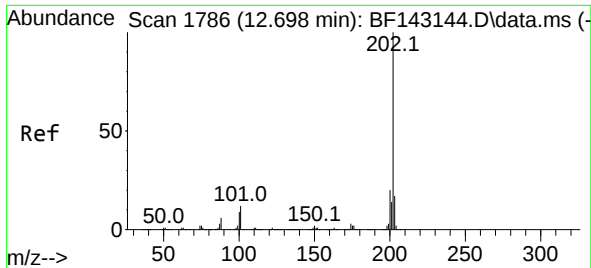


#73
 Carbazole
 Concen: 5.582 ng
 RT: 11.716 min Scan# 1619
 Delta R.T. 0.006 min
 Lab File: BF143333.D
 Acq: 06 Aug 2025 16:43



Tgt Ion:167 Resp: 45801
 Ion Ratio Lower Upper
 167 100
 166 24.9 17.0 25.6
 139 22.4 10.0 15.0#





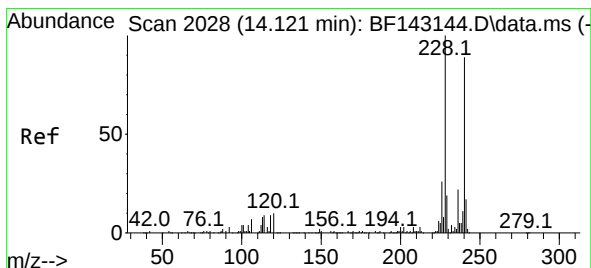
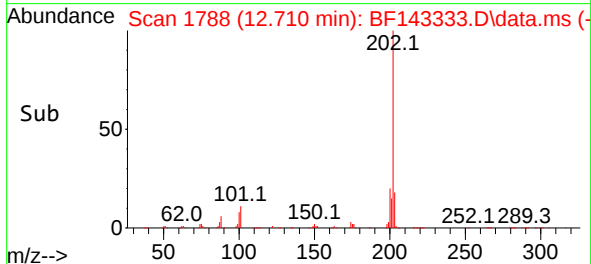
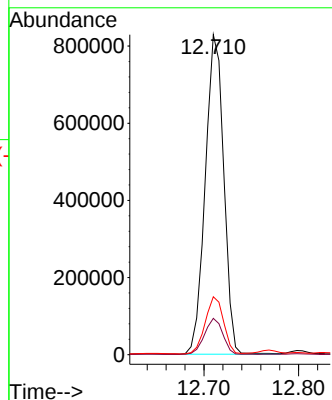
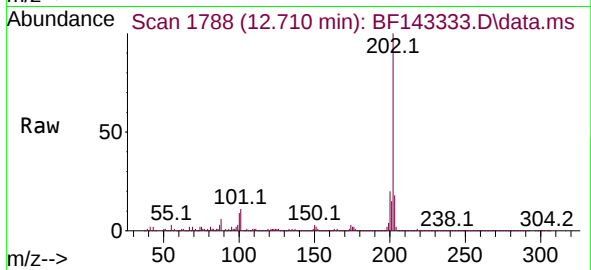
#75
Fluoranthene
Concen: 132.450 ng
RT: 12.710 min Scan# 11
Delta R.T. 0.012 min
Lab File: BF143333.D
Acq: 06 Aug 2025 16:43

Instrument :
BNA_F
ClientSampleId :
R5

Tgt Ion:202 Resp: 112007
Ion Ratio Lower Upper
202 100
101 11.3 0.0 31.7
203 18.1 0.0 37.4

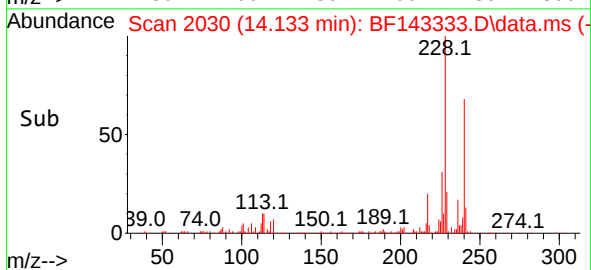
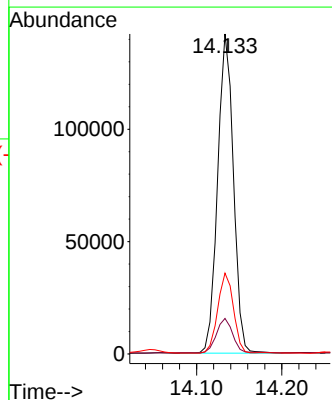
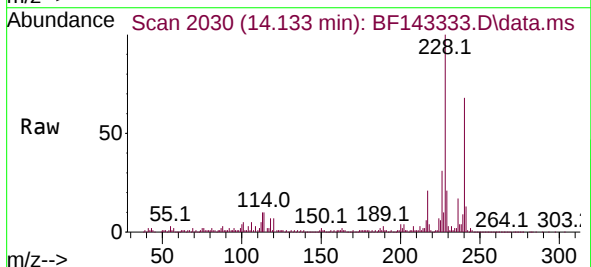
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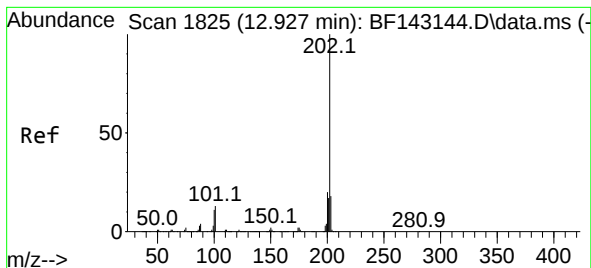
Reviewed By :Rahul Chavli 08/07/2025
Supervised By :Jagrut Upadhyay 08/07/2025



#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.133 min Scan# 2030
Delta R.T. 0.012 min
Lab File: BF143333.D
Acq: 06 Aug 2025 16:43

Tgt Ion:240 Resp: 182814
Ion Ratio Lower Upper
240 100
120 11.1 9.4 14.2
236 25.2 20.2 30.4





#78

Pyrene

Concen: 73.812 ng

RT: 12.939 min Scan# 1827

Delta R.T. 0.012 min

Lab File: BF143333.D

Acq: 06 Aug 2025 16:43

Instrument :

BNA_F

ClientSampleId :

R5

Tgt Ion:202 Resp: 115163

Ion Ratio Lower Upper

202 100

200 20.1 15.7 23.5

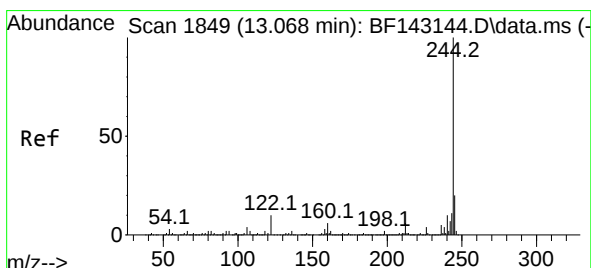
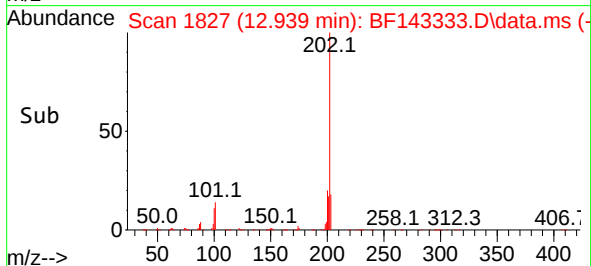
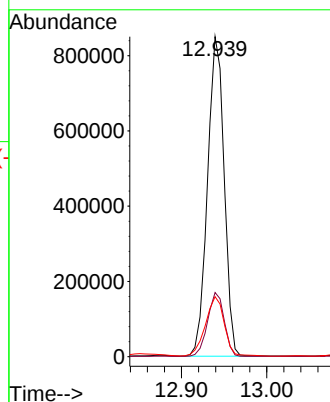
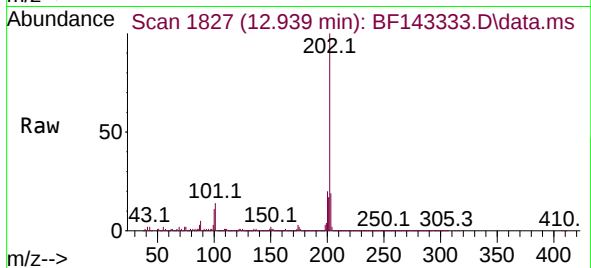
203 18.7 14.2 21.2

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Reviewed By :Rahul Chavli 08/07/2025

Supervised By :Jagrut Upadhyay 08/07/2025



#79

Terphenyl-d14

Concen: 38.864 ng

RT: 13.069 min Scan# 1849

Delta R.T. 0.000 min

Lab File: BF143333.D

Acq: 06 Aug 2025 16:43

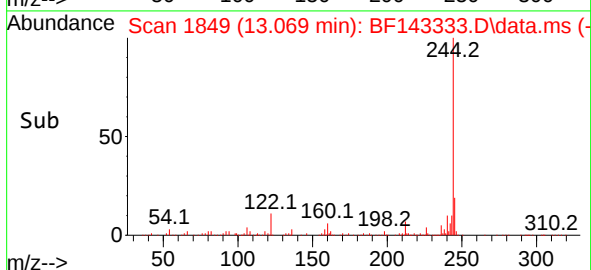
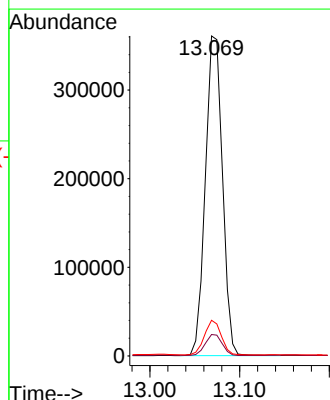
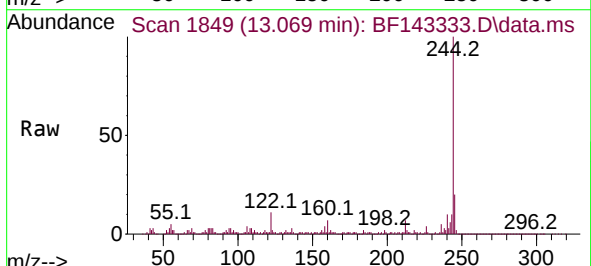
Tgt Ion:244 Resp: 477444

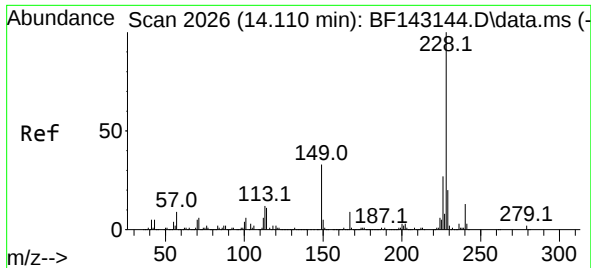
Ion Ratio Lower Upper

244 100

212 6.7 5.2 7.8

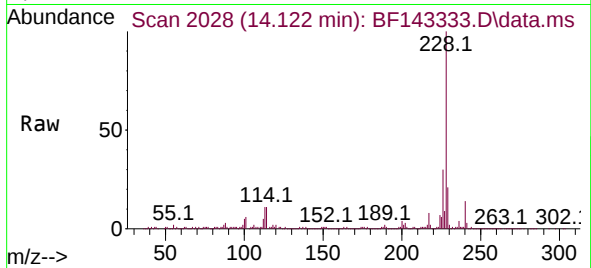
122 11.1 8.2 12.2





#81
Benzo(a)anthracene
Concen: 41.356 ng
RT: 14.122 min Scan# 2026
Delta R.T. 0.012 min
Lab File: BF143333.D
Acq: 06 Aug 2025 16:43

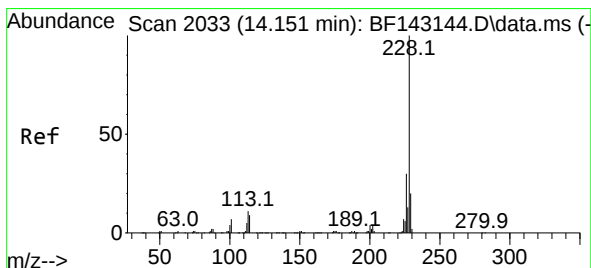
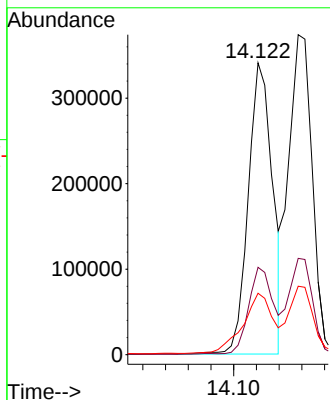
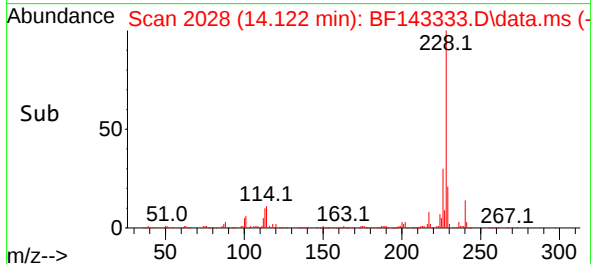
Instrument :
BNA_F
ClientSampleId :
R5



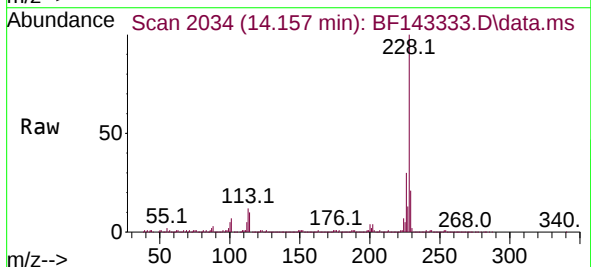
Tgt Ion:228 Resp: 506172
Ion Ratio Lower Upper
228 100
226 29.9 21.7 32.5
229 21.0 15.8 23.6

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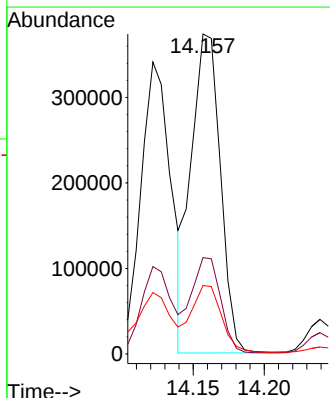
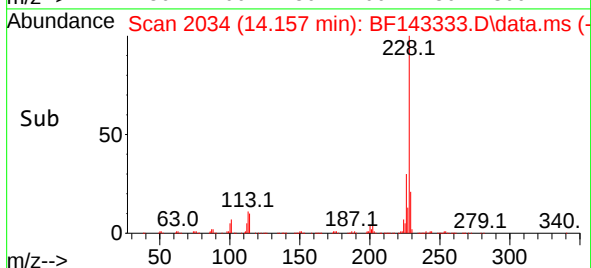
Reviewed By :Rahul Chavli 08/07/2025
Supervised By :Jagrut Upadhyay 08/07/2025

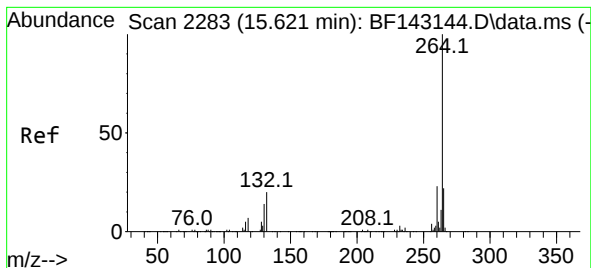


#83
Chrysene
Concen: 48.627 ng
RT: 14.157 min Scan# 2034
Delta R.T. 0.006 min
Lab File: BF143333.D
Acq: 06 Aug 2025 16:43



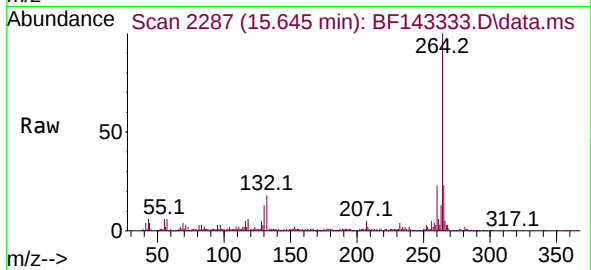
Tgt Ion:228 Resp: 535113
Ion Ratio Lower Upper
228 100
226 30.1 23.8 35.8
229 21.4 15.6 23.4





#86
Perylene-d12
Concen: 20.000 ng
RT: 15.645 min Scan# 21
Delta R.T. 0.024 min
Lab File: BF143333.D
Acq: 06 Aug 2025 16:43

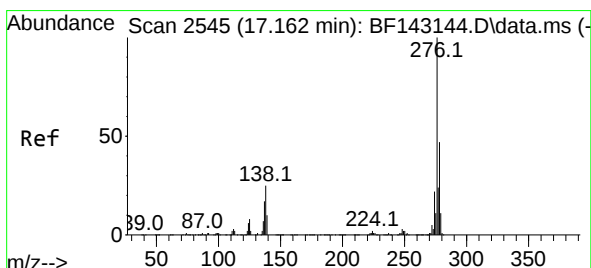
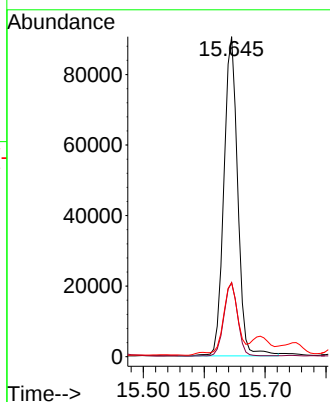
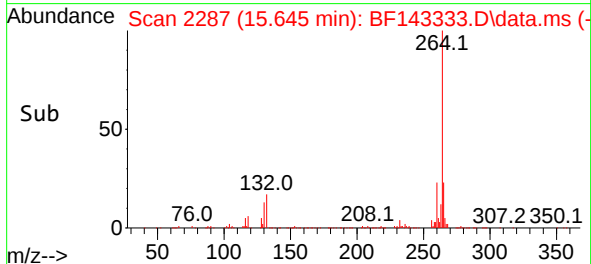
Instrument :
BNA_F
ClientSampleId :
R5



Tgt Ion:264 Resp: 14259
Ion Ratio Lower Upper
264 100
260 23.2 18.5 27.7
265 23.1 17.4 26.2

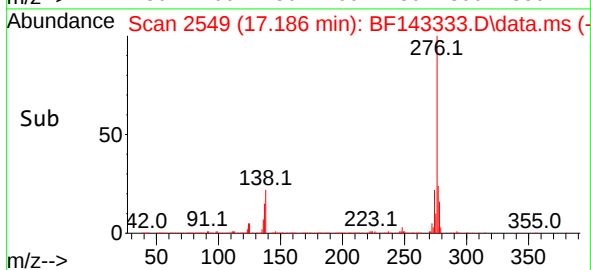
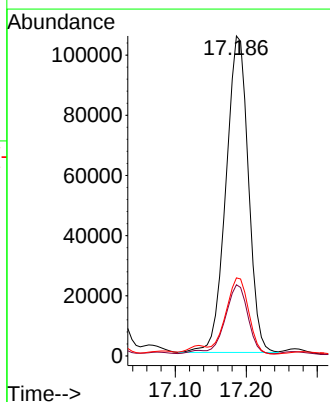
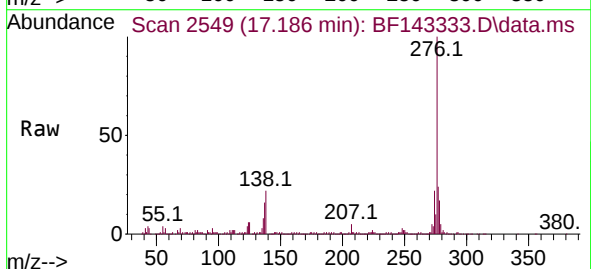
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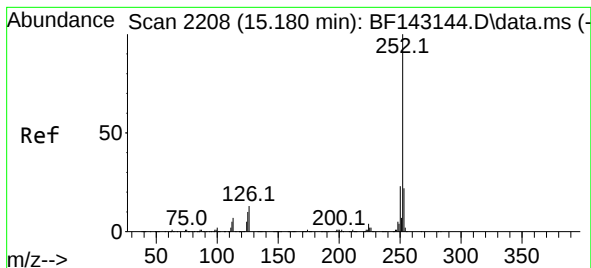
Reviewed By :Rahul Chavli 08/07/2025
Supervised By :Jagrut Upadhyay 08/07/2025



#87
Indeno(1,2,3-cd)pyrene
Concen: 22.934 ng
RT: 17.186 min Scan# 2549
Delta R.T. 0.024 min
Lab File: BF143333.D
Acq: 06 Aug 2025 16:43

Tgt Ion:276 Resp: 230605
Ion Ratio Lower Upper
276 100
138 22.4 21.8 32.6
277 24.5 20.0 30.0





#88

Benzo(b)fluoranthene

Concen: 69.568 ng m

RT: 15.204 min Scan# 21

Delta R.T. 0.024 min

Lab File: BF143333.D

Acq: 06 Aug 2025 16:43

Instrument :

BNA_F

ClientSampleId :

R5

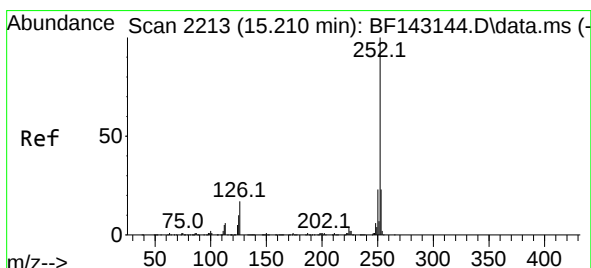
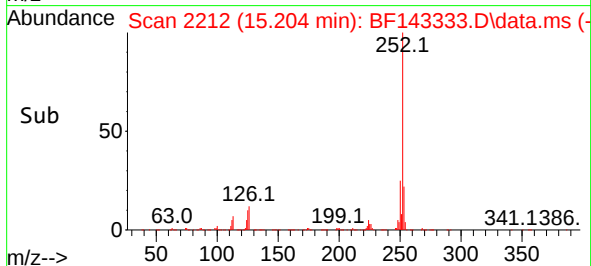
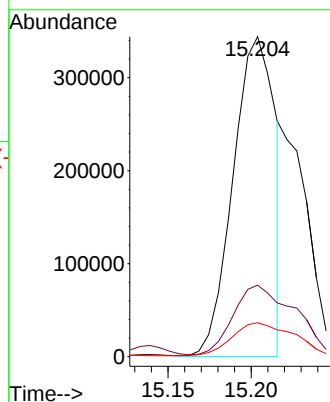
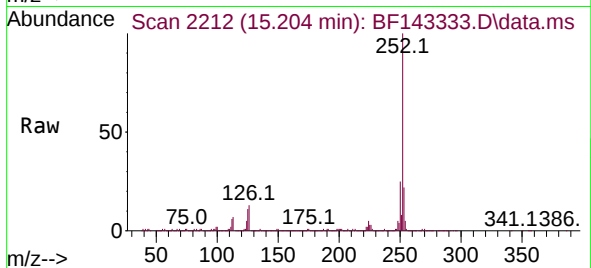
Tgt Ion:252 Resp: 60603
 Ion Ratio Lower Upper
 252 100
 253 22.3 17.5 26.3
 125 10.6 8.0 12.0

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Supervised By :Jagrut Upadhyay 08/07/2025



#89

Benzo(k)fluoranthene

Concen: 34.039 ng m

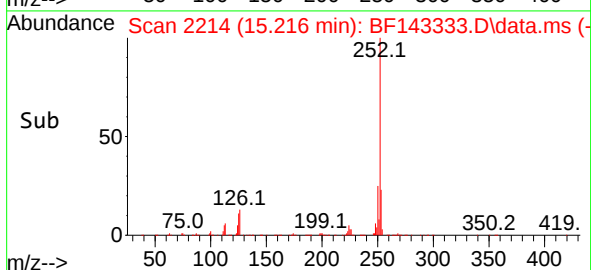
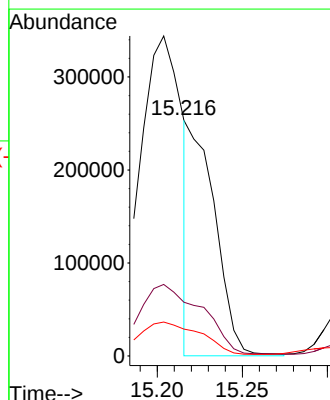
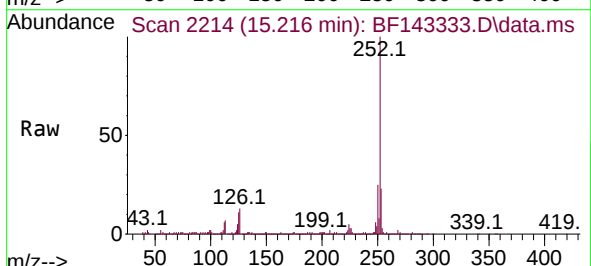
RT: 15.216 min Scan# 2214

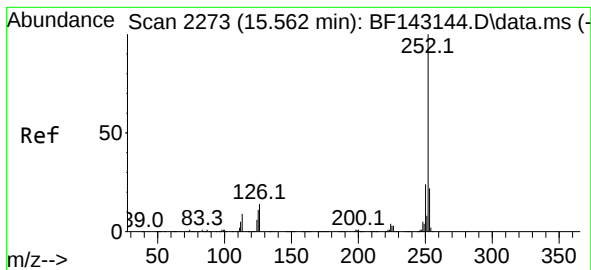
Delta R.T. 0.006 min

Lab File: BF143333.D

Acq: 06 Aug 2025 16:43

Tgt Ion:252 Resp: 264605
 Ion Ratio Lower Upper
 252 100
 253 22.8 17.8 26.6
 125 11.4 8.1 12.1





#90

Benzo(a)pyrene

Concen: 49.031 ng

RT: 15.580 min Scan# 21

Delta R.T. 0.018 min

Lab File: BF143333.D

Acq: 06 Aug 2025 16:43

Instrument :

BNA_F

ClientSampleId :

R5

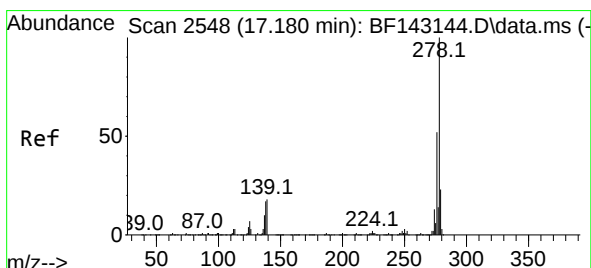
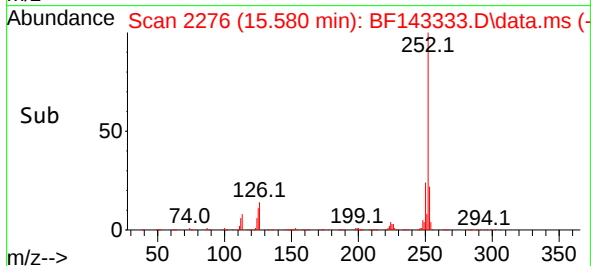
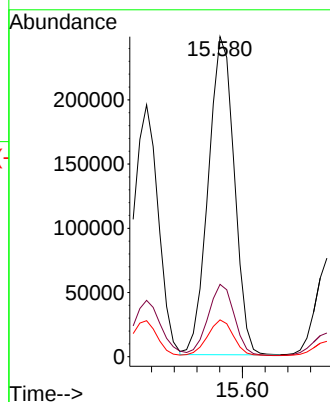
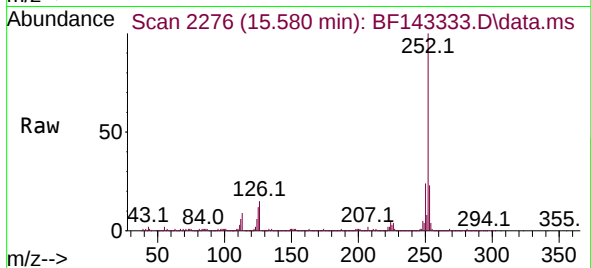
Tgt Ion:252 Resp: 39353
 Ion Ratio Lower Upper
 252 100
 253 22.6 17.3 25.9
 125 11.5 8.6 13.0

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Supervised By :Jagrut Upadhyay 08/07/2025



#91

Dibenzo(a,h)anthracene

Concen: 6.097 ng m

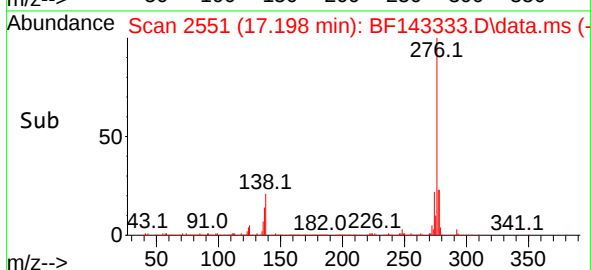
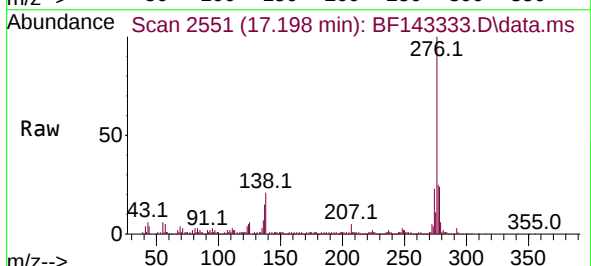
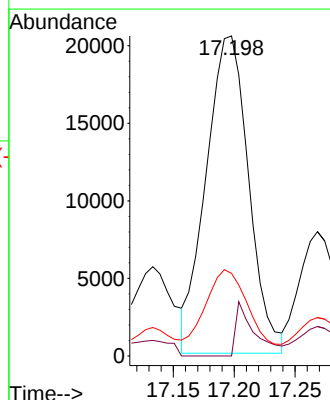
RT: 17.198 min Scan# 2551

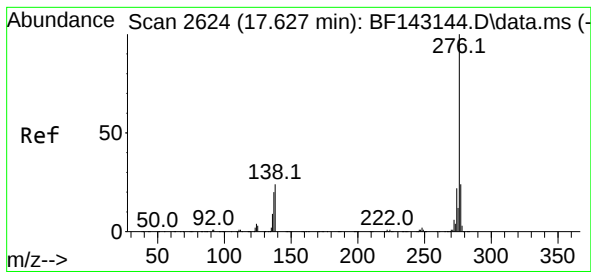
Delta R.T. 0.018 min

Lab File: BF143333.D

Acq: 06 Aug 2025 16:43

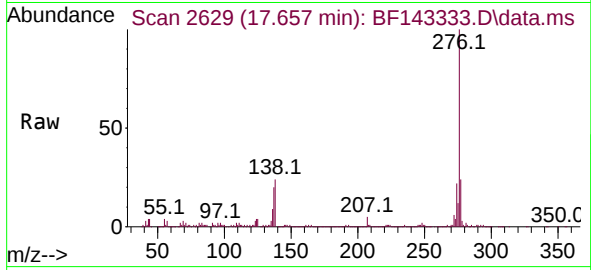
Tgt Ion:278 Resp: 49896
 Ion Ratio Lower Upper
 278 100
 139 0.0 14.1 21.1#
 279 25.8 18.6 28.0





#92
Benzo(g,h,i)perylene
Concen: 32.297 ng
RT: 17.657 min Scan# 20
Delta R.T. 0.030 min
Lab File: BF143333.D
Acq: 06 Aug 2025 16:43

Instrument :
BNA_F
ClientSampleId :
R5



Tgt Ion: 276 Resp: 255690
Ion Ratio Lower Upper
276 100
277 23.6 19.1 28.7
138 23.6 18.9 28.3

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Reviewed By :Rahul Chavli 08/07/2025
Supervised By :Jagrut Upadhyay 08/07/2025

