

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF072425\
 Data File : BF143244.D
 Acq On : 24 Jul 2025 20:22
 Operator : RC/JU
 Sample : Q2676-03 10X
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 HD-02-07222025

Manual Integrations
 APPROVED

Reviewed By :Rahul Chavli 07/25/2025
 Supervised By :Jagrut Upadhyay 07/25/2025

Quant Time: Jul 25 01:19:34 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	95028	20.000	ng	0.00
21) Naphthalene-d8	8.245	136	329946	20.000	ng	0.00
39) Acenaphthene-d10	9.998	164	161614	20.000	ng	0.00
64) Phenanthrene-d10	11.486	188	277082	20.000	ng	0.00
76) Chrysene-d12	14.127	240	190752	20.000	ng	0.00
86) Perylene-d12	15.633	264	140129	20.000	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.587	112	47935	7.982	ng	0.00
7) Phenol-d6	6.581	99	59188	7.831	ng	0.00
23) Nitrobenzene-d5	7.510	82	34815	5.260	ng	-0.01
42) 2,4,6-Tribromophenol	10.786	330	13573	8.130	ng	0.00
45) 2-Fluorobiphenyl	9.316	172	73838	6.248	ng	0.00
79) Terphenyl-d14	13.063	244	76631	5.978	ng	0.00
Target Compounds						Qvalue
71) Phenanthrene	11.510	178	150221	10.211	ng	98
72) Anthracene	11.557	178	49090	3.272	ng	99
75) Fluoranthene	12.698	202	299702	22.194	ng	99
78) Pyrene	12.928	202	261398	16.057	ng	99
81) Benzo(a)anthracene	14.116	228	116231	9.101	ng	96
83) Chrysene	14.151	228	87332	7.606	ng	96
87) Indeno(1,2,3-cd)pyrene	17.168	276	35947	3.638	ng	96
88) Benzo(b)fluoranthene	15.186	252	90149m	10.531	ng	
89) Benzo(k)fluoranthene	15.204	252	33074m	4.330	ng	
90) Benzo(a)pyrene	15.569	252	63938	8.106	ng	# 90
92) Benzo(g,h,i)perylene	17.639	276	33210	4.269	ng	# 92

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

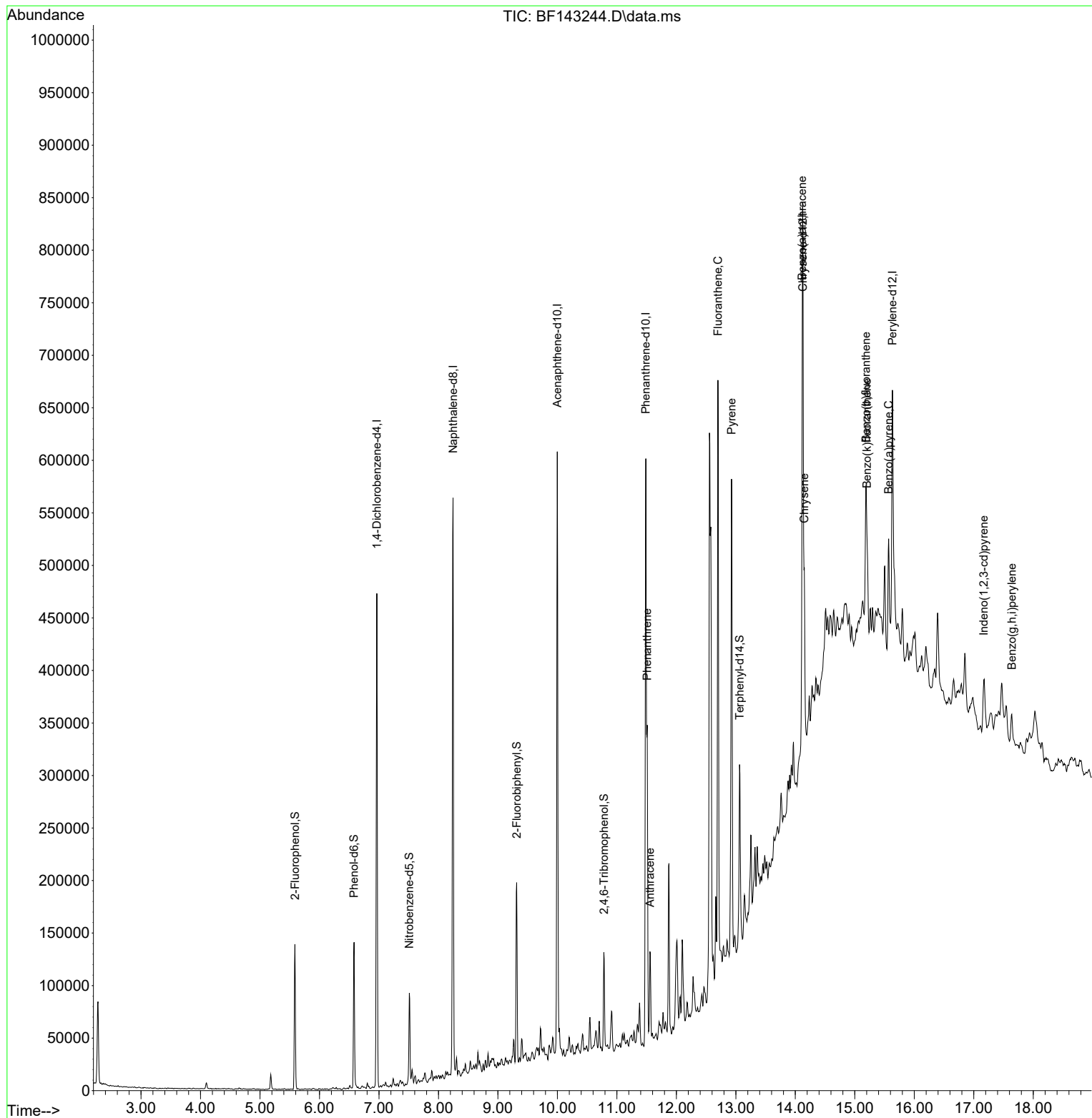
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF072425\
Data File : BF143244.D
Acq On : 24 Jul 2025 20:22
Operator : RC/JU
Sample : Q2676-03 10X
Misc :
ALS Vial : 23 Sample Multiplier: 1

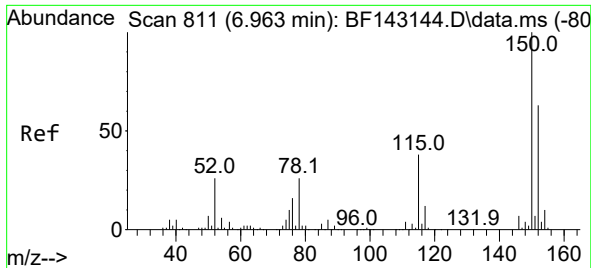
Instrument :
BNA_F
ClientSampleId :
HD-02-07222025

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 07/25/2025
Supervised By :Jagrut Upadhyay 07/25/2025

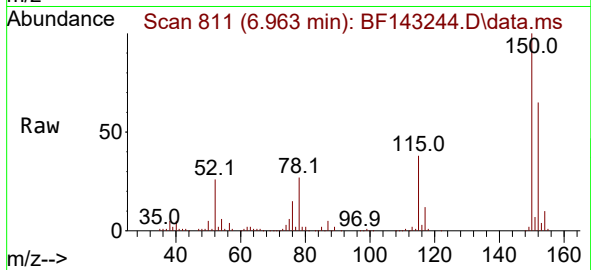
Quant Time: Jul 25 01:19:34 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF071725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jul 17 15:14:05 2025
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.963 min Scan# 811
Delta R.T. 0.000 min
Lab File: BF143244.D
Acq: 24 Jul 2025 20:22

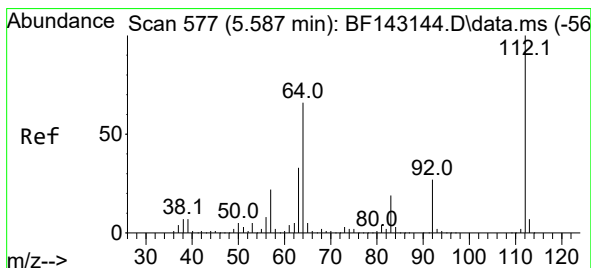
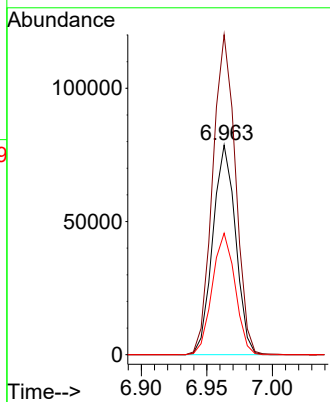
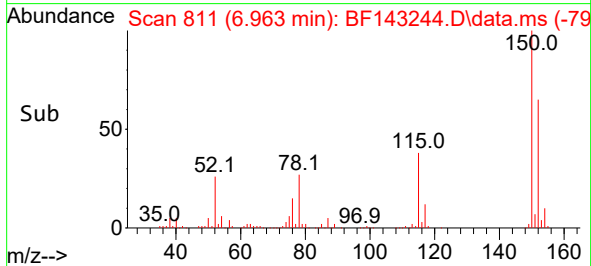
Instrument :
BNA_F
ClientSampleId :
HD-02-07222025



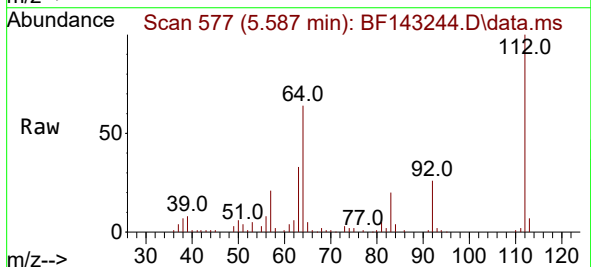
Tgt Ion:152 Resp: 95028
Ion Ratio Lower Upper
152 100
150 152.7 128.2 192.4
115 57.9 47.9 71.9

Manual Integrations
APPROVED

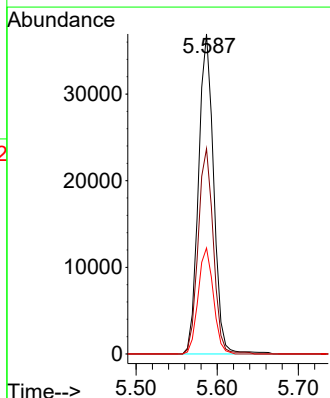
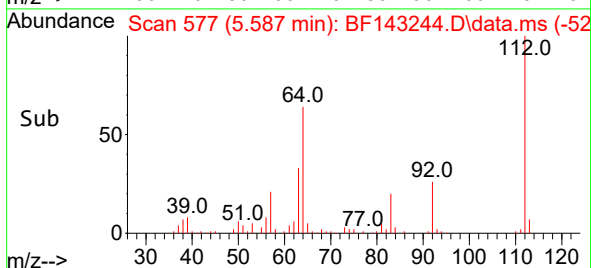
Reviewed By :Rahul Chavli 07/25/2025
Supervised By :Jagrut Upadhyay 07/25/2025

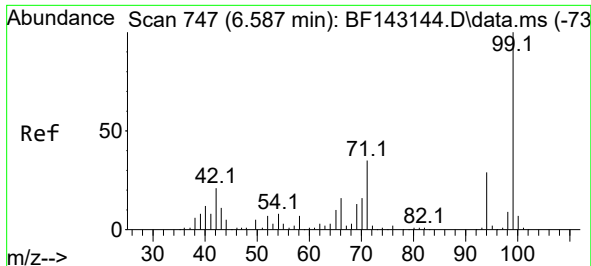


#5
2-Fluorophenol
Concen: 7.982 ng
RT: 5.587 min Scan# 577
Delta R.T. 0.000 min
Lab File: BF143244.D
Acq: 24 Jul 2025 20:22



Tgt Ion:112 Resp: 47935
Ion Ratio Lower Upper
112 100
64 64.1 53.1 79.7
63 33.1 26.6 40.0





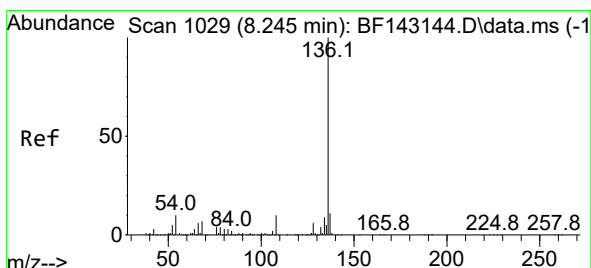
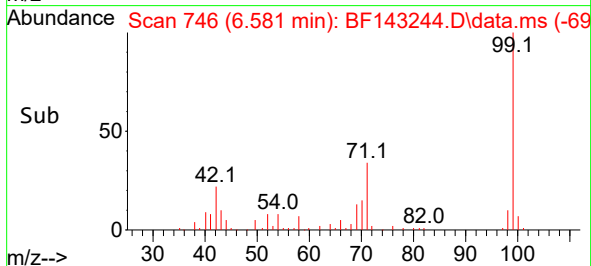
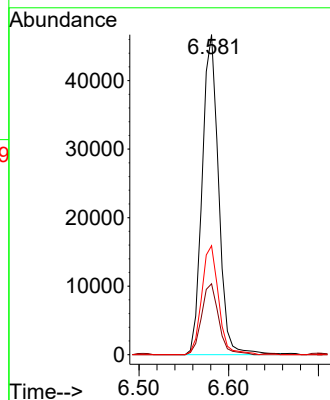
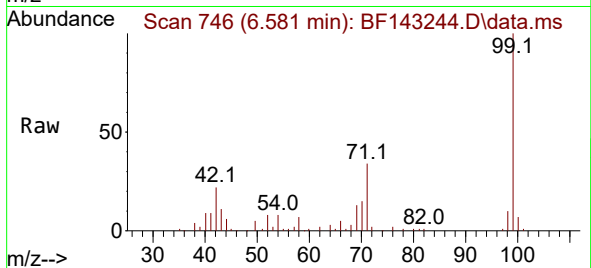
#7
Phenol-d6
Concen: 7.831 ng
RT: 6.581 min Scan# 747
Delta R.T. -0.006 min
Lab File: BF143244.D
Acq: 24 Jul 2025 20:22

Instrument :
BNA_F
ClientSampleId :
HD-02-07222025

Tgt Ion: 99 Resp: 59188
Ion Ratio Lower Upper
99 100
42 22.2 17.0 25.6
71 34.0 27.7 41.5

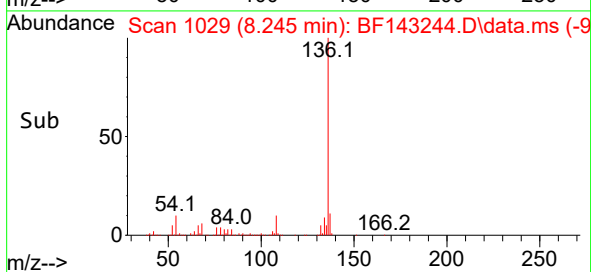
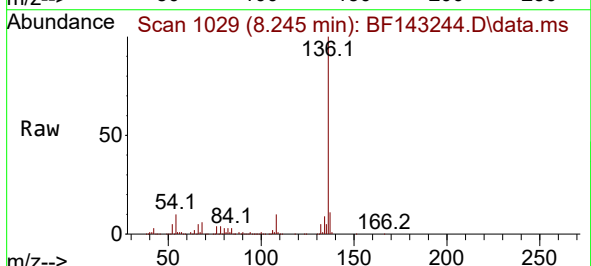
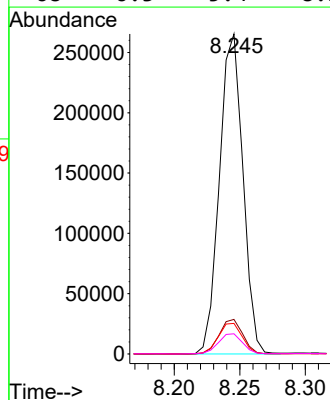
Manual Integrations
APPROVED

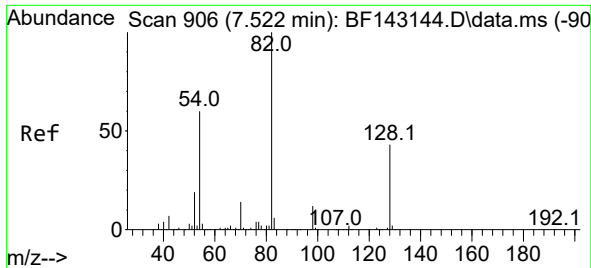
Reviewed By :Rahul Chavli 07/25/2025
Supervised By :Jagrut Upadhyay 07/25/2025



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.245 min Scan# 1029
Delta R.T. 0.000 min
Lab File: BF143244.D
Acq: 24 Jul 2025 20:22

Tgt Ion:136 Resp: 329946
Ion Ratio Lower Upper
136 100
137 10.8 8.6 13.0
54 9.6 8.2 12.2
68 6.3 5.4 8.2





#23

Nitrobenzene-d5

Concen: 5.260 ng

RT: 7.510 min Scan# 906

Delta R.T. -0.012 min

Lab File: BF143244.D

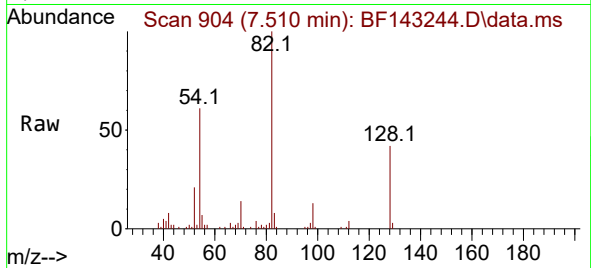
Acq: 24 Jul 2025 20:22

Instrument :

BNA_F

ClientSampleId :

HD-02-07222025



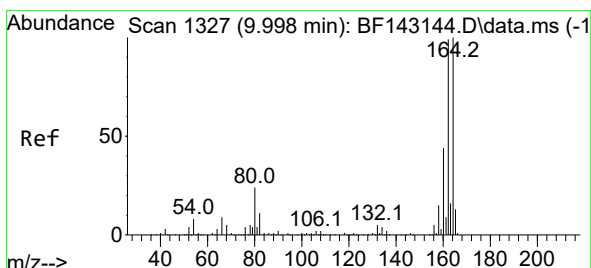
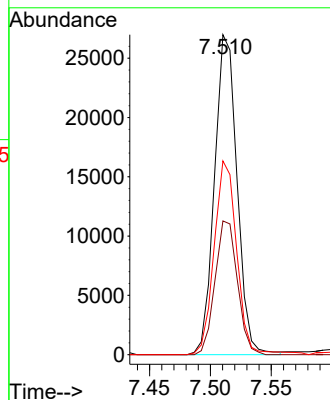
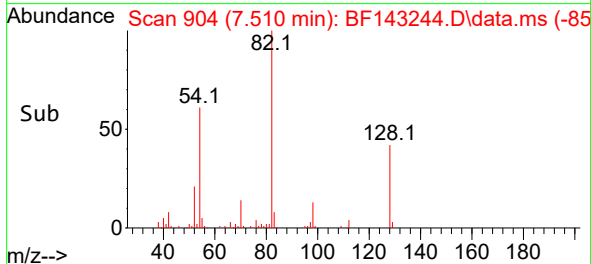
Tgt Ion: 82	Resp: 3481
Ion Ratio	Lower Upper
82	100
128	41.8 33.6 50.4
54	60.5 47.1 70.7

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 07/25/2025

Supervised By :Jagrut Upadhyay 07/25/2025



#39

Acenaphthene-d10

Concen: 20.000 ng

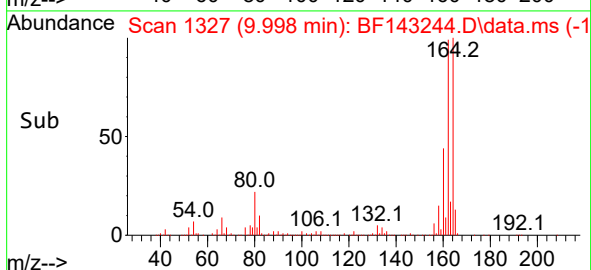
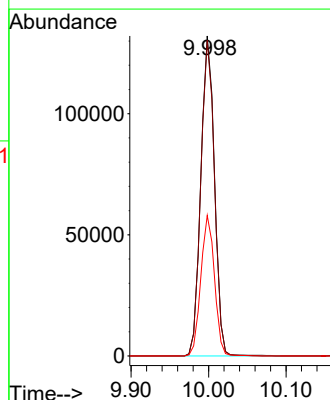
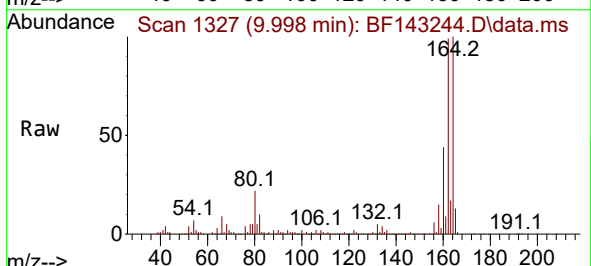
RT: 9.998 min Scan# 1327

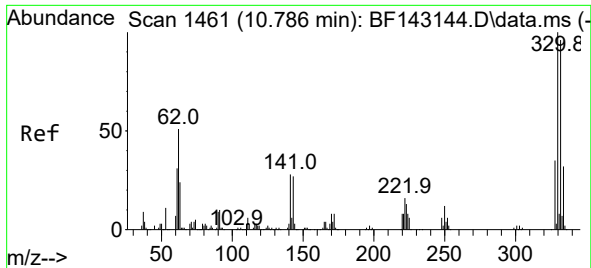
Delta R.T. 0.000 min

Lab File: BF143244.D

Acq: 24 Jul 2025 20:22

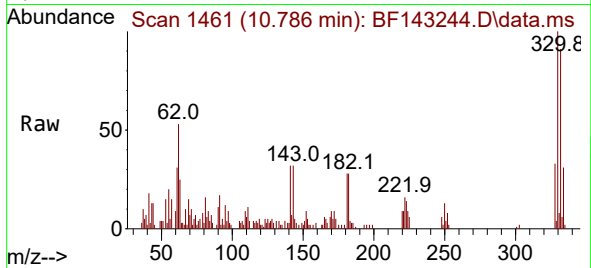
Tgt Ion:164	Resp: 161614
Ion Ratio	Lower Upper
164	100
162	98.7 79.0 118.6
160	43.9 35.1 52.7





#42
2,4,6-Tribromophenol
Concen: 8.130 ng
RT: 10.786 min Scan# 1461
Delta R.T. 0.000 min
Lab File: BF143244.D
Acq: 24 Jul 2025 20:22

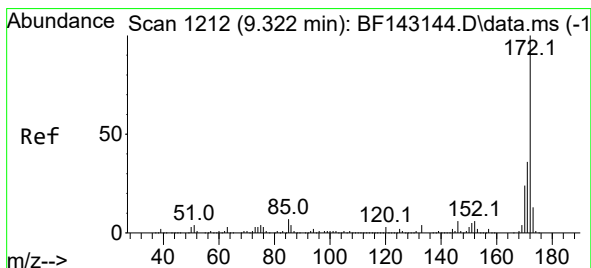
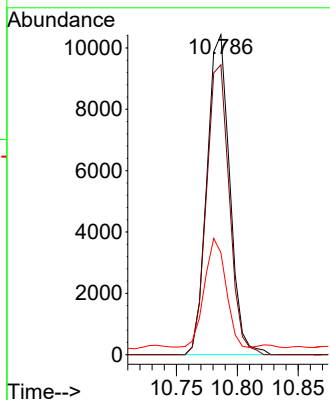
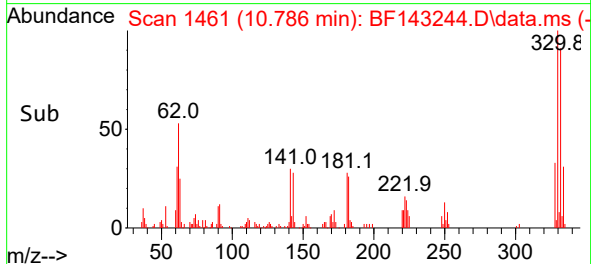
Instrument :
BNA_F
ClientSampleId :
HD-02-07222025



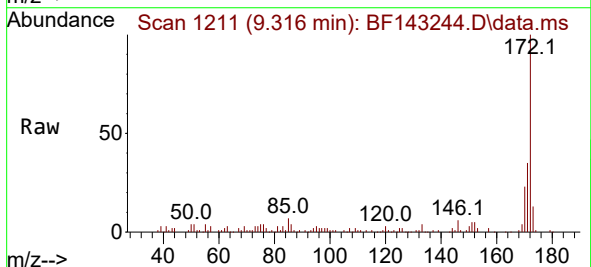
Tgt Ion: 330 Resp: 1357
Ion Ratio Lower Upper
330 100
332 90.8 76.7 115.1
141 32.0 23.3 34.9

Manual Integrations
APPROVED

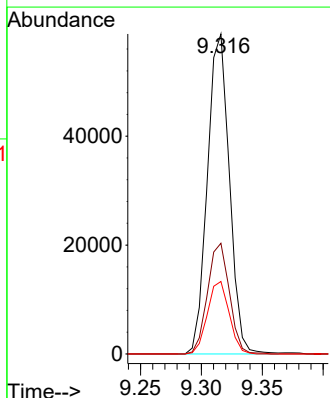
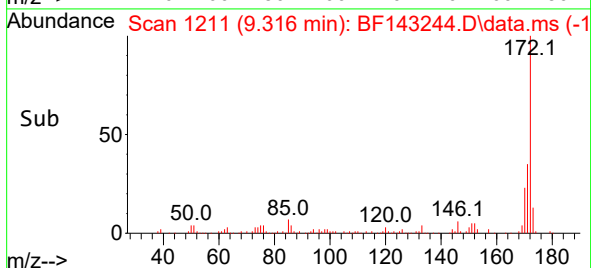
Reviewed By :Rahul Chavli 07/25/2025
Supervised By :Jagrut Upadhyay 07/25/2025

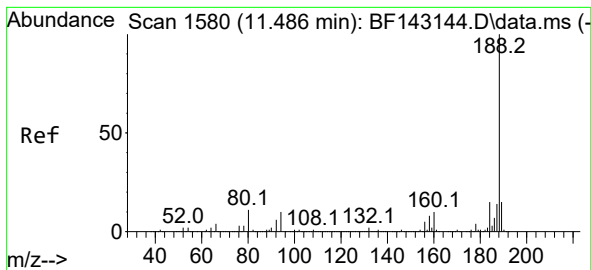


#45
2-Fluorobiphenyl
Concen: 6.248 ng
RT: 9.316 min Scan# 1211
Delta R.T. -0.006 min
Lab File: BF143244.D
Acq: 24 Jul 2025 20:22



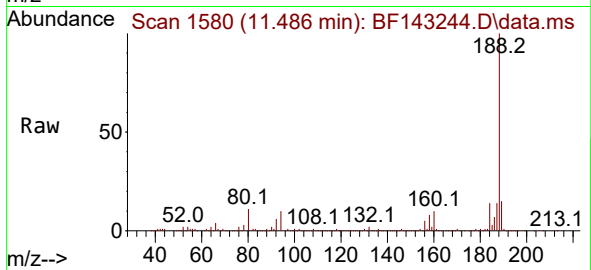
Tgt Ion: 172 Resp: 73838
Ion Ratio Lower Upper
172 100
171 34.6 28.6 42.8
170 22.7 18.8 28.2





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.486 min Scan# 1580
Delta R.T. 0.000 min
Lab File: BF143244.D
Acq: 24 Jul 2025 20:22

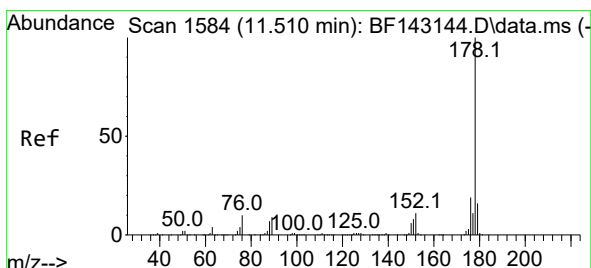
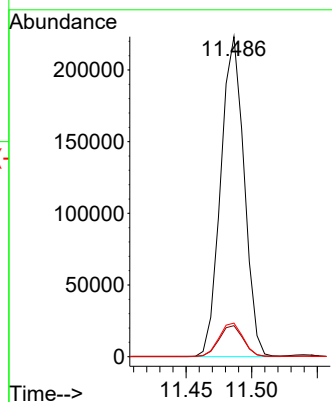
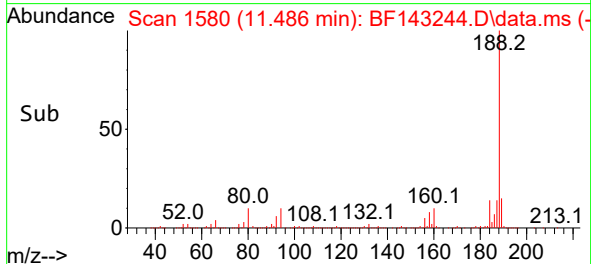
Instrument :
BNA_F
ClientSampleId :
HD-02-07222025



Tgt Ion:188 Resp: 277082
Ion Ratio Lower Upper
188 100
94 9.7 8.3 12.5
80 10.5 9.0 13.6

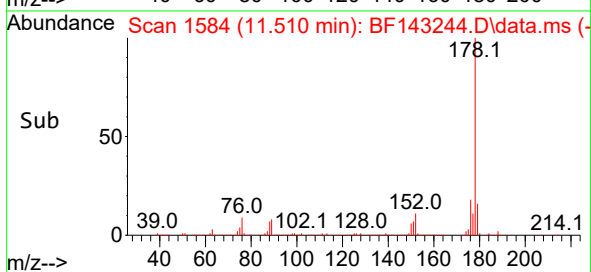
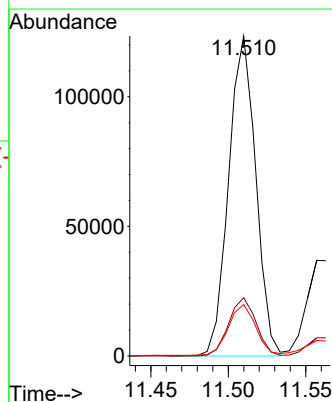
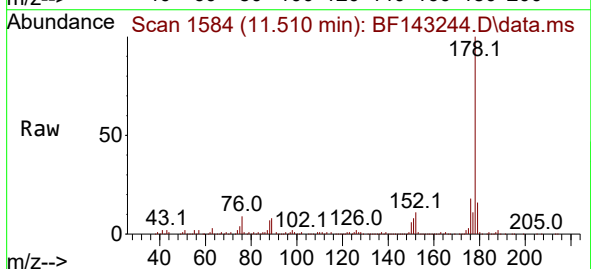
Manual Integrations
APPROVED

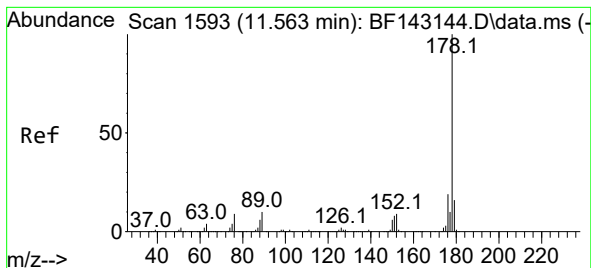
Reviewed By :Rahul Chavli 07/25/2025
Supervised By :Jagrut Upadhyay 07/25/2025



#71
Phenanthrene
Concen: 10.211 ng
RT: 11.510 min Scan# 1584
Delta R.T. 0.000 min
Lab File: BF143244.D
Acq: 24 Jul 2025 20:22

Tgt Ion:178 Resp: 150221
Ion Ratio Lower Upper
178 100
176 18.2 15.3 22.9
179 16.1 12.5 18.7





#72

Anthracene

Concen: 3.272 ng

RT: 11.557 min Scan# 1

Delta R.T. -0.006 min

Lab File: BF143244.D

Acq: 24 Jul 2025 20:22

Instrument :

BNA_F

ClientSampleId :

HD-02-07222025

Tgt Ion:178 Resp: 49090

Ion Ratio Lower Upper

178 100

176 19.0 15.0 22.4

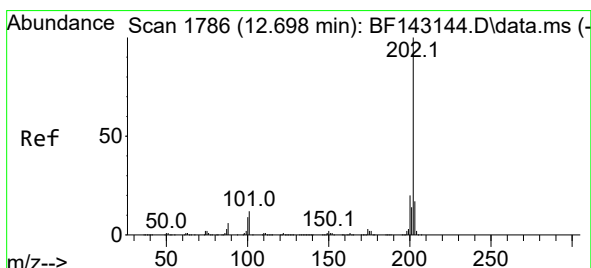
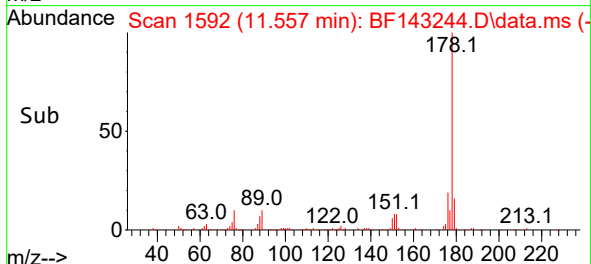
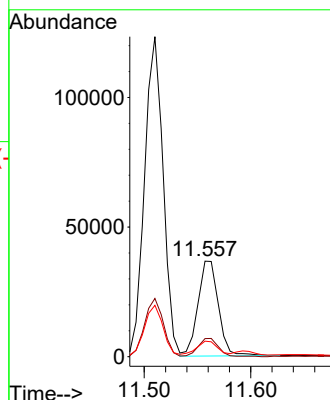
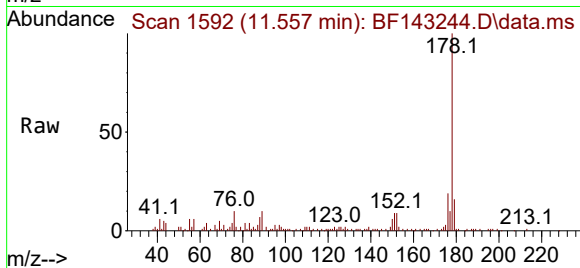
179 16.2 12.5 18.7

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 07/25/2025

Supervised By :Jagrut Upadhyay 07/25/2025



#75

Fluoranthene

Concen: 22.194 ng

RT: 12.698 min Scan# 1786

Delta R.T. 0.000 min

Lab File: BF143244.D

Acq: 24 Jul 2025 20:22

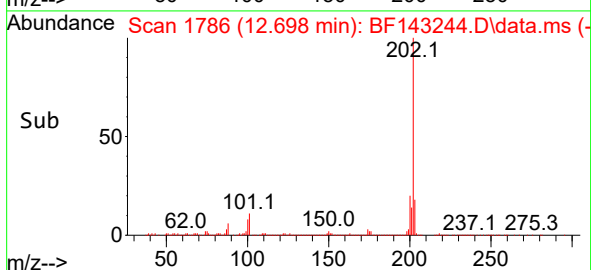
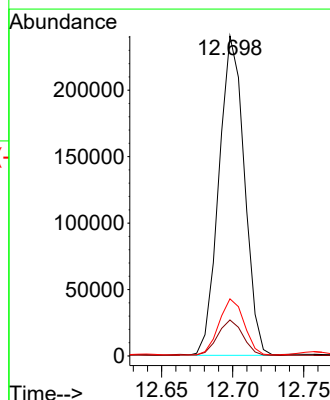
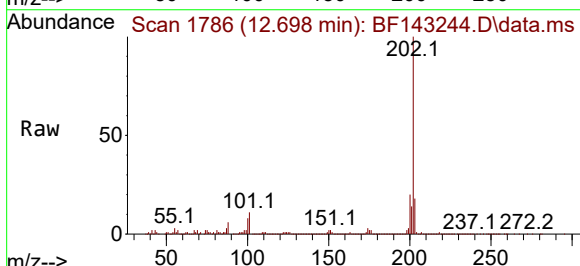
Tgt Ion:202 Resp: 299702

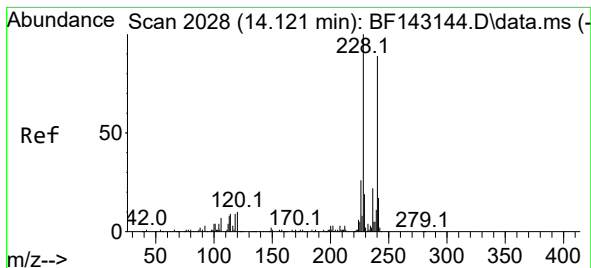
Ion Ratio Lower Upper

202 100

101 11.2 0.0 31.7

203 17.8 0.0 37.4





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.127 min Scan# 2028

Delta R.T. 0.006 min

Lab File: BF143244.D

Acq: 24 Jul 2025 20:22

Instrument :

BNA_F

ClientSampleId :

HD-02-07222025

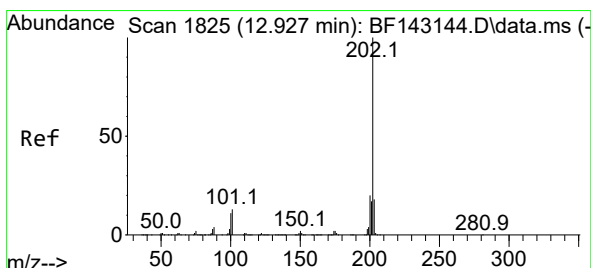
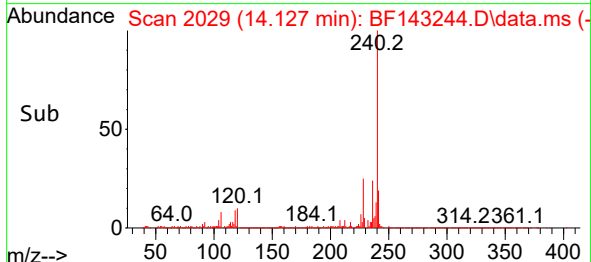
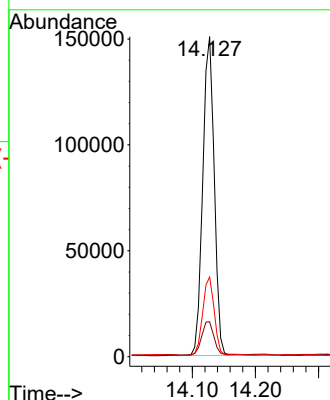
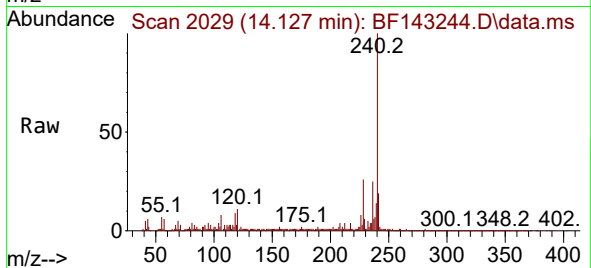
Tgt Ion:240 Resp: 190752
 Ion Ratio Lower Upper
 240 100
 120 10.9 9.4 14.2
 236 24.9 20.2 30.4

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 07/25/2025

Supervised By :Jagrut Upadhyay 07/25/2025



#78

Pyrene

Concen: 16.057 ng

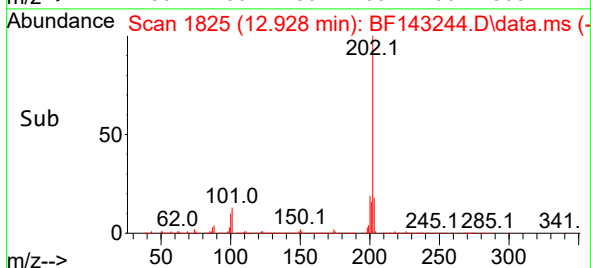
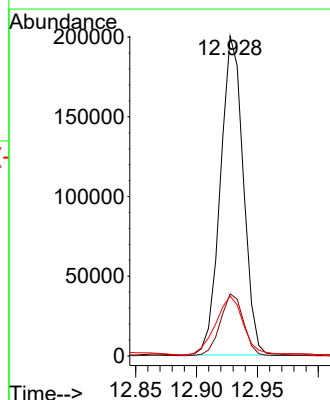
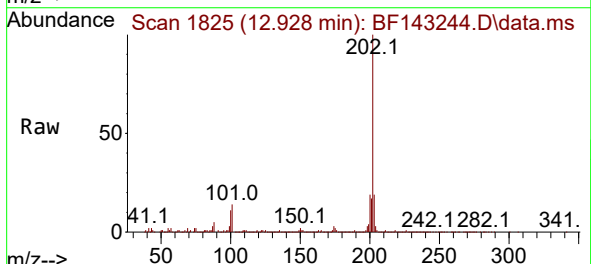
RT: 12.928 min Scan# 1825

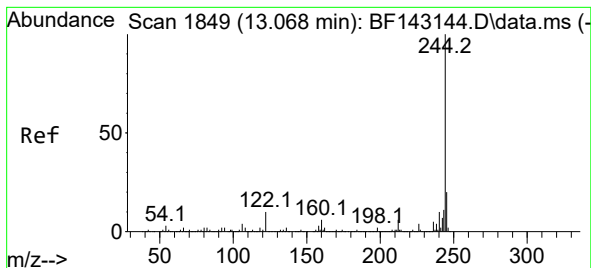
Delta R.T. 0.000 min

Lab File: BF143244.D

Acq: 24 Jul 2025 20:22

Tgt Ion:202 Resp: 261398
 Ion Ratio Lower Upper
 202 100
 200 19.4 15.7 23.5
 203 18.7 14.2 21.2





#79

Terphenyl-d14

Concen: 5.978 ng

RT: 13.063 min Scan# 1849

Delta R.T. -0.006 min

Lab File: BF143244.D

Acq: 24 Jul 2025 20:22

Instrument :

BNA_F

ClientSampleId :

HD-02-07222025

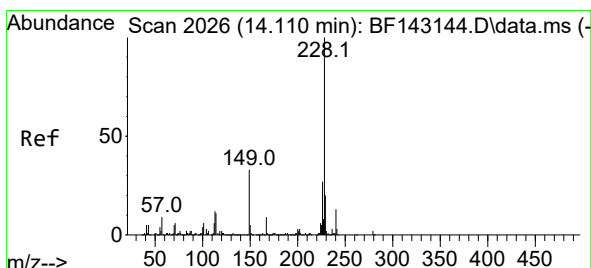
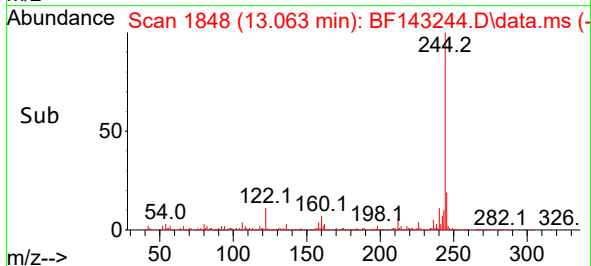
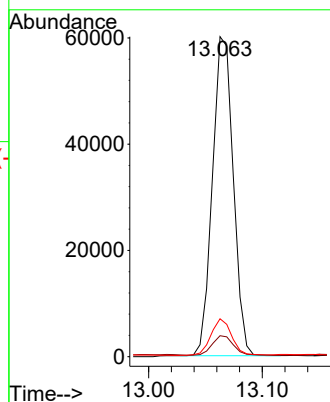
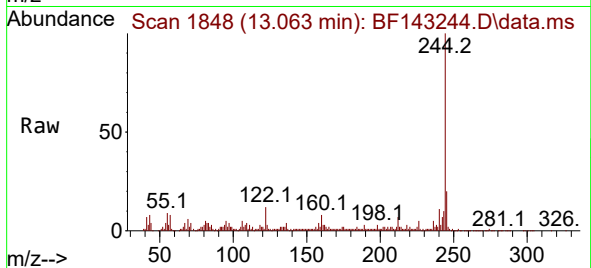
Tgt Ion:244	Resp:	7663
Ion Ratio	Lower	Upper
244	100	
212	6.5	5.2 7.8
122	11.8	8.2 12.2

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 07/25/2025

Supervised By :Jagrut Upadhyay 07/25/2025



#81

Benzo(a)anthracene

Concen: 9.101 ng

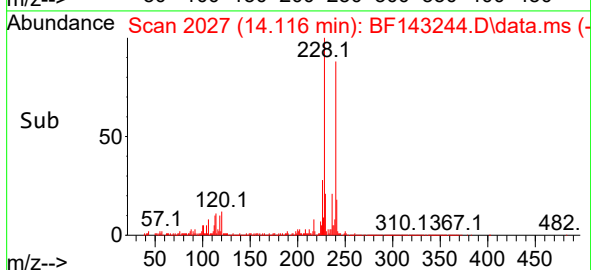
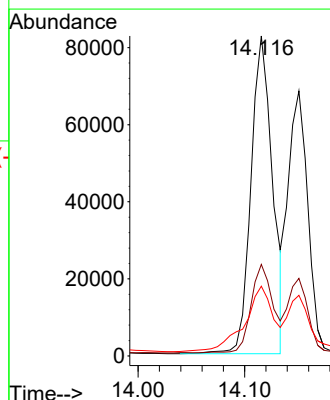
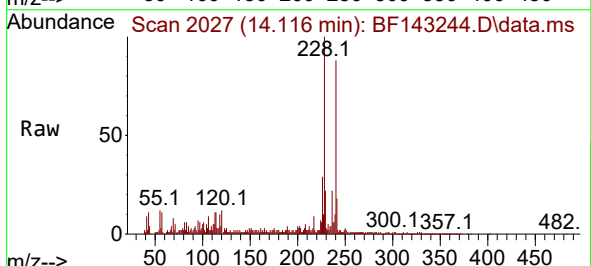
RT: 14.116 min Scan# 2027

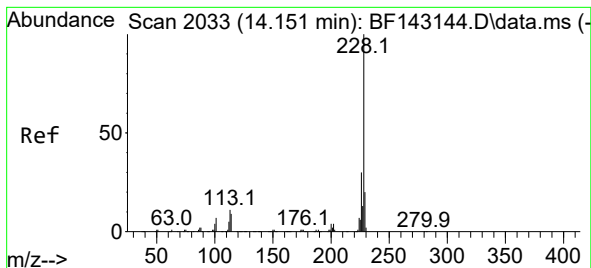
Delta R.T. 0.006 min

Lab File: BF143244.D

Acq: 24 Jul 2025 20:22

Tgt Ion:228	Resp:	116231
Ion Ratio	Lower	Upper
228	100	
226	28.6	21.7 32.5
229	21.8	15.8 23.6





#83

Chrysene

Concen: 7.606 ng

RT: 14.151 min Scan# 2033

Delta R.T. 0.000 min

Lab File: BF143244.D

Acq: 24 Jul 2025 20:22

Instrument :

BNA_F

ClientSampleId :

HD-02-07222025

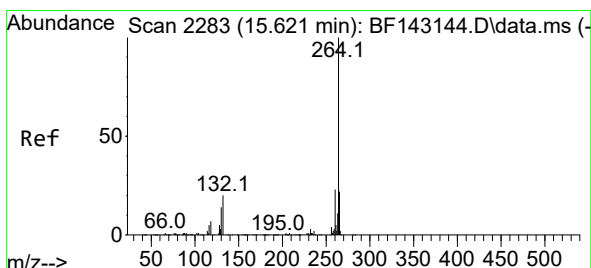
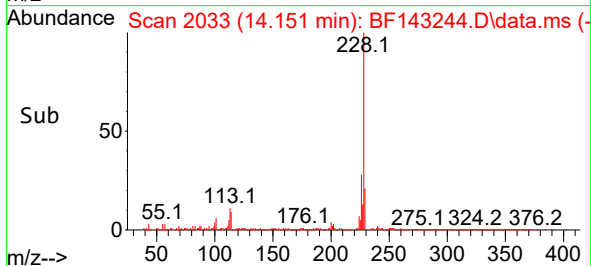
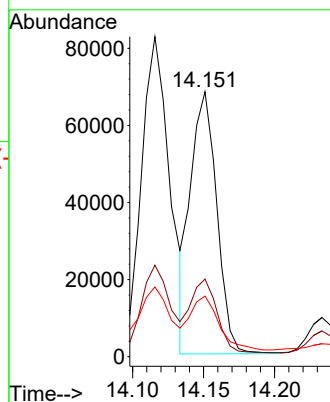
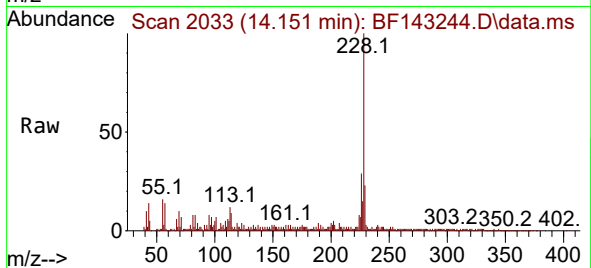
Tgt Ion:228	Resp:	8733
Ion Ratio	Lower	Upper
228	100	
226	29.3	23.8 35.8
229	22.9	15.6 23.4

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 07/25/2025

Supervised By :Jagrut Upadhyay 07/25/2025



#86

Perylene-d12

Concen: 20.000 ng

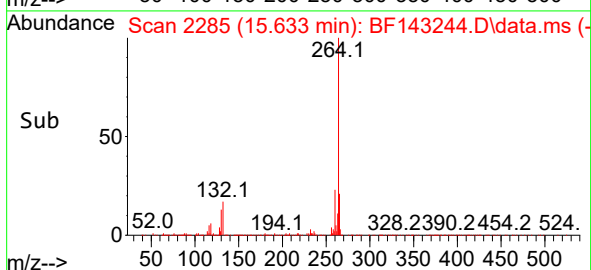
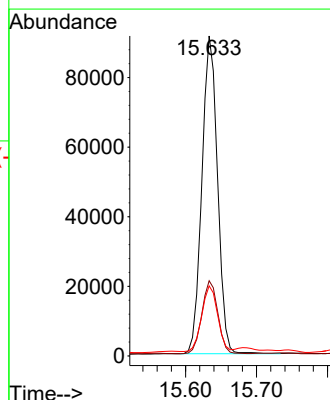
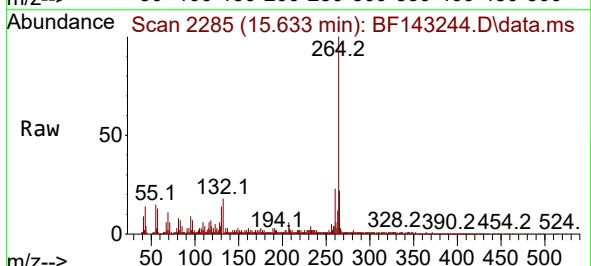
RT: 15.633 min Scan# 2285

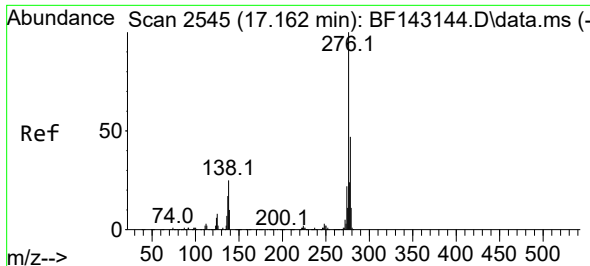
Delta R.T. 0.012 min

Lab File: BF143244.D

Acq: 24 Jul 2025 20:22

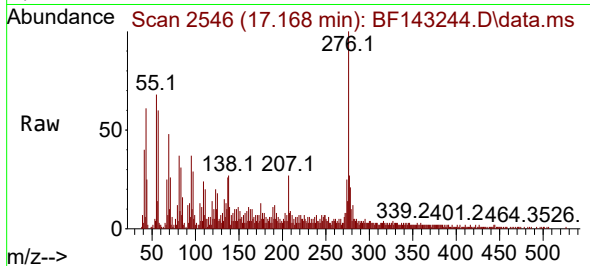
Tgt Ion:264	Resp:	140129
Ion Ratio	Lower	Upper
264	100	
260	23.5	18.5 27.7
265	21.9	17.4 26.2





#87
Indeno(1,2,3-cd)pyrene
Concen: 3.638 ng
RT: 17.168 min Scan# 21
Delta R.T. 0.006 min
Lab File: BF143244.D
Acq: 24 Jul 2025 20:22

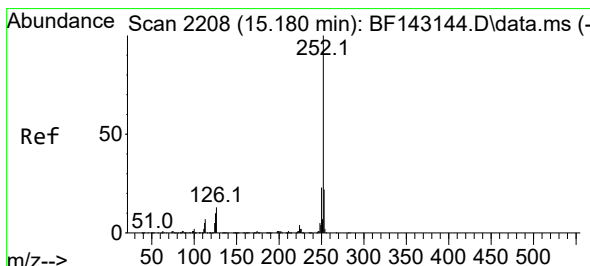
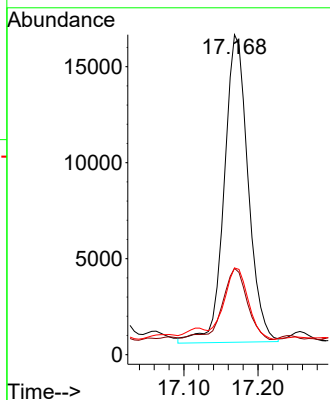
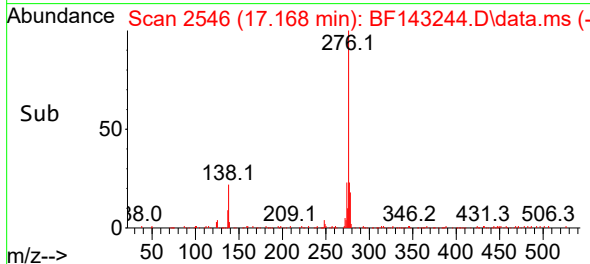
Instrument :
BNA_F
ClientSampleId :
HD-02-07222025



Tgt Ion:276 Resp: 3594
Ion Ratio Lower Upper
276 100
138 24.9 21.8 32.6
277 23.3 20.0 30.0

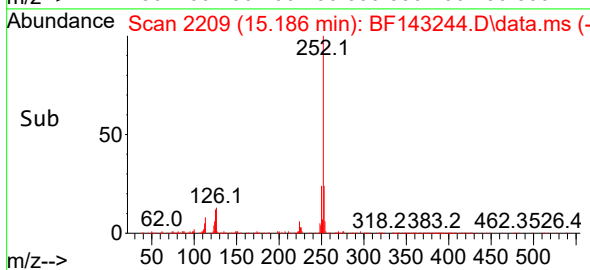
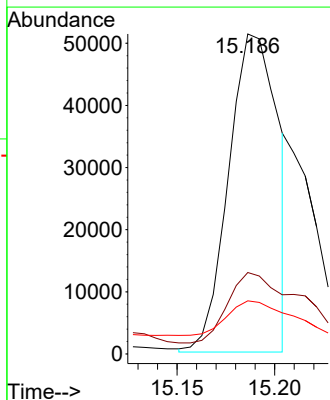
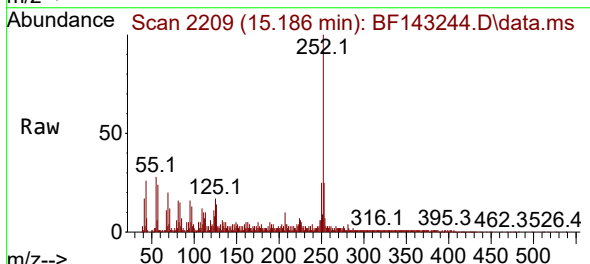
Manual Integrations
APPROVED

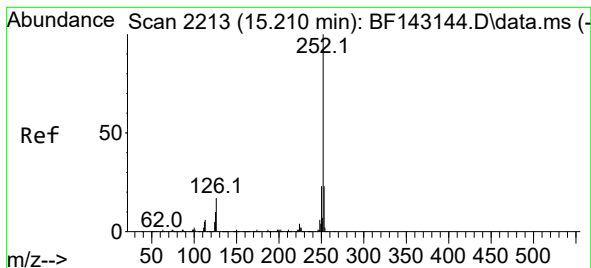
Reviewed By :Rahul Chavli 07/25/2025
Supervised By :Jagrut Upadhyay 07/25/2025



#88
Benzo(b)fluoranthene
Concen: 10.531 ng m
RT: 15.186 min Scan# 2209
Delta R.T. 0.006 min
Lab File: BF143244.D
Acq: 24 Jul 2025 20:22

Tgt Ion:252 Resp: 90149
Ion Ratio Lower Upper
252 100
253 25.4 17.5 26.3
125 16.6 8.0 12.0#





#89

Benzo(k)fluoranthene

Concen: 4.330 ng m

RT: 15.204 min Scan# 2212

Delta R.T. -0.006 min

Lab File: BF143244.D

Acq: 24 Jul 2025 20:22

Instrument :

BNF

ClientSampleId :

HD-02-07222025

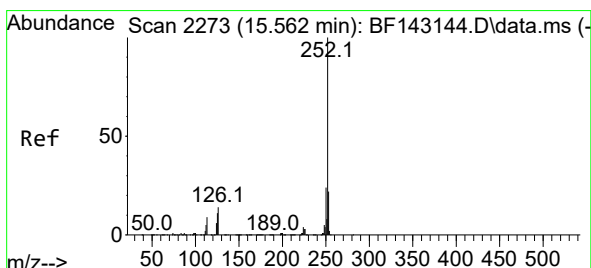
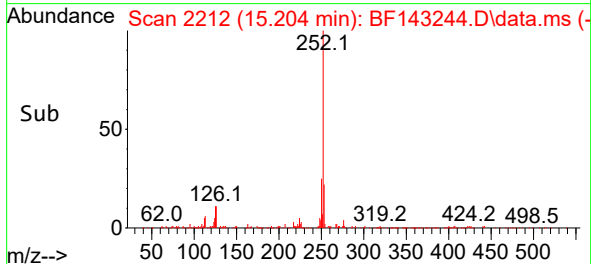
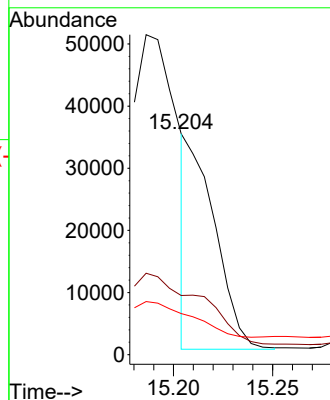
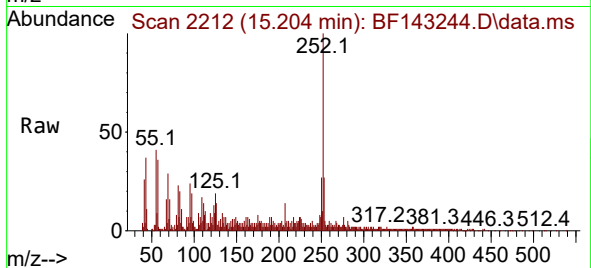
Tgt Ion:252 Resp: 33074
 Ion Ratio Lower Upper
 252 100
 253 26.8 17.8 26.6
 125 18.6 8.1 12.1

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 07/25/2025

Supervised By :Jagrut Upadhyay 07/25/2025



#90

Benzo(a)pyrene

Concen: 8.106 ng

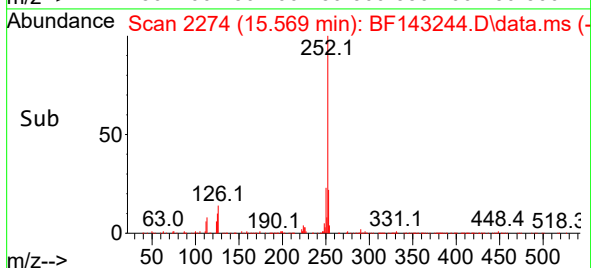
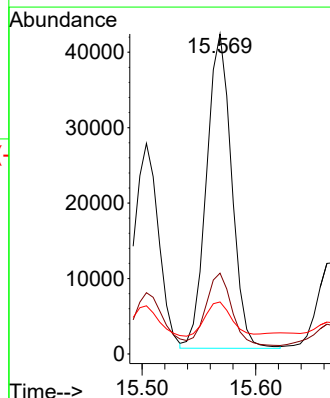
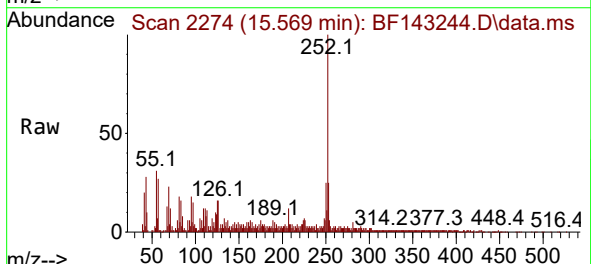
RT: 15.569 min Scan# 2274

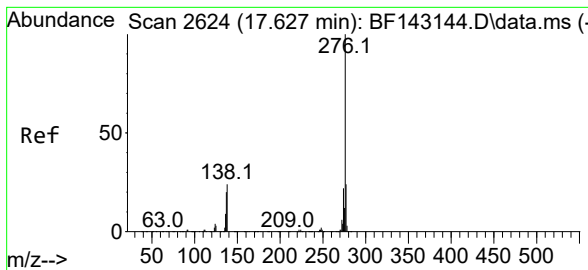
Delta R.T. 0.006 min

Lab File: BF143244.D

Acq: 24 Jul 2025 20:22

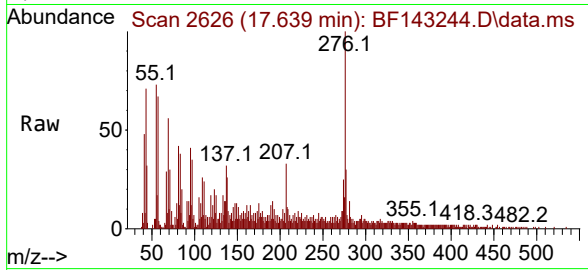
Tgt Ion:252 Resp: 63938
 Ion Ratio Lower Upper
 252 100
 253 25.3 17.3 25.9
 125 16.2 8.6 13.0





#92
 Benzo(g,h,i)perylene
 Concen: 4.269 ng
 RT: 17.639 min Scan# 20
 Delta R.T. 0.012 min
 Lab File: BF143244.D
 Acq: 24 Jul 2025 20:22

Instrument :
 BNA_F
 ClientSampleId :
 HD-02-07222025



Tgt Ion: 276 Resp: 33210
 Ion Ratio Lower Upper
 276 100
 277 29.8 19.1 28.7
 138 25.7 18.9 28.3

Manual Integrations
 APPROVED

Reviewed By :Rahul Chavli 07/25/2025
 Supervised By :Jagrut Upadhyay 07/25/2025

