

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF120325\
 Data File : BF144421.D
 Acq On : 03 Dec 2025 16:06
 Operator : RC/JU
 Sample : Q3741-04
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 B50-SP9-112425

Manual Integrations
 APPROVED

Reviewed By :Jagrut Upadhyay 12/04/2025
 Supervised By :mohammad ahmed 12/09/2025

Quant Time: Dec 03 16:25:30 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110525.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 05 18:37:33 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.863	152	45091	20.000	ng	-0.01
21) Naphthalene-d8	8.145	136	171081	20.000	ng	-0.01
39) Acenaphthene-d10	9.898	164	84880	20.000	ng	-0.02
64) Phenanthrene-d10	11.392	188	134914	20.000	ng	-0.01
76) Chrysene-d12	14.045	240	128244	20.000	ng	0.00
86) Perylene-d12	15.527	264	147094	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.492	112	165564	57.459	ng	0.00
7) Phenol-d6	6.498	99	290264	88.904	ng	0.00
23) Nitrobenzene-d5	7.422	82	190182	64.203	ng	-0.01
42) 2,4,6-Tribromophenol	10.692	330	38726	36.357	ng	-0.01
45) 2-Fluorobiphenyl	9.216	172	393357	68.445	ng	-0.01
79) Terphenyl-d14	12.980	244	397302	49.209	ng	-0.01
Target Compounds						Qvalue
71) Phenanthrene	11.416	178	43263	6.441	ng	98
75) Fluoranthene	12.610	202	71614	10.321	ng	98
78) Pyrene	12.839	202	73212	7.080	ng	98
81) Benzo(a)anthracene	14.033	228	66967	7.534	ng	95
83) Chrysene	14.068	228	54962m	6.699	ng	
87) Indeno(1,2,3-cd)pyrene	17.021	276	46436	4.398	ng	99
88) Benzo(b)fluoranthene	15.092	252	102591m	12.268	ng	
89) Benzo(k)fluoranthene	15.110	252	29429m	3.760	ng	
90) Benzo(a)pyrene	15.462	252	83609	10.837	ng	# 95
92) Benzo(g,h,i)perylene	17.480	276	47247	5.642	ng	99

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

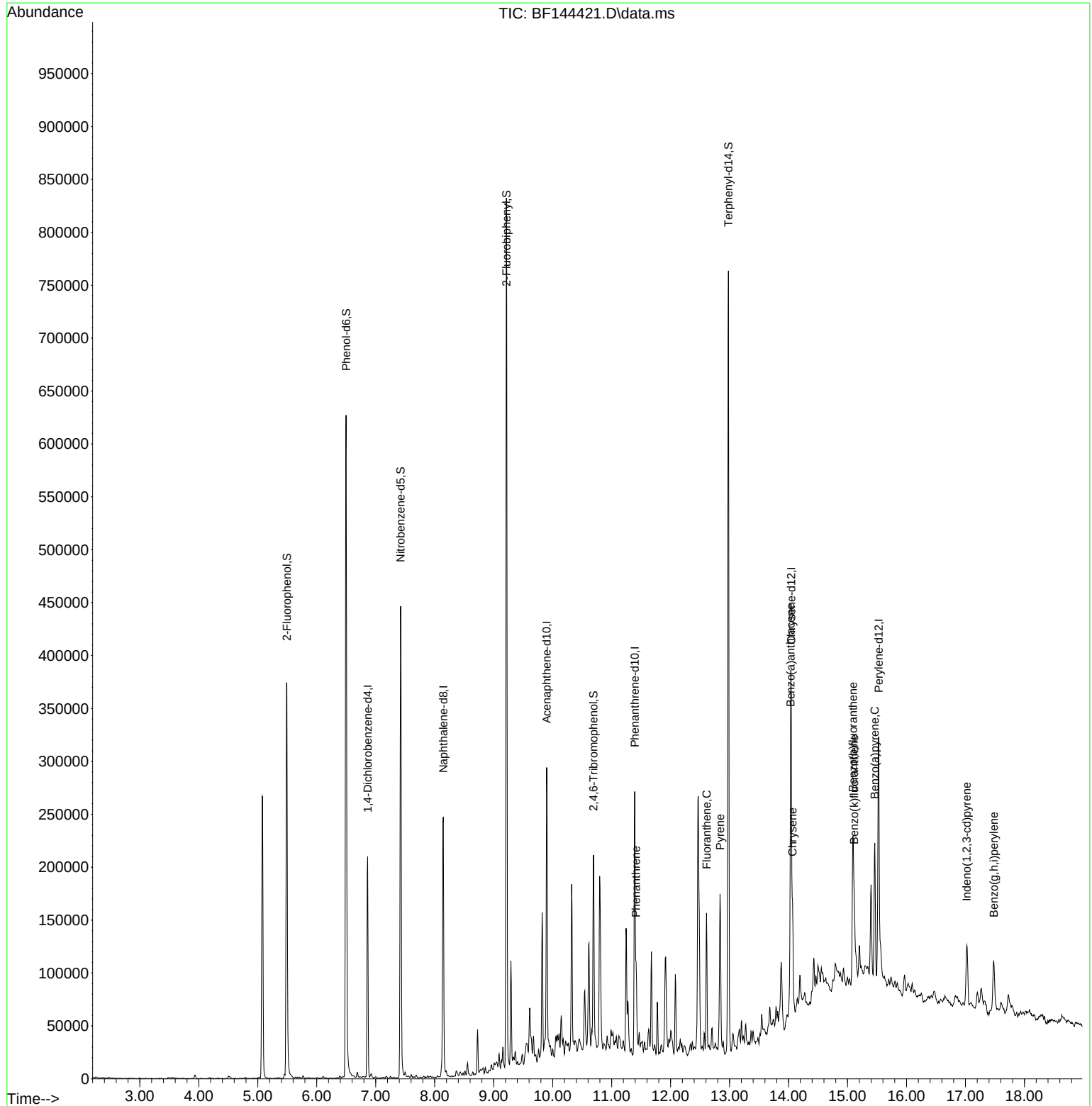
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF120325\
Data File : BF144421.D
Acq On : 03 Dec 2025 16:06
Operator : RC/JU
Sample : Q3741-04
Misc :
ALS Vial : 8 Sample Multiplier: 1

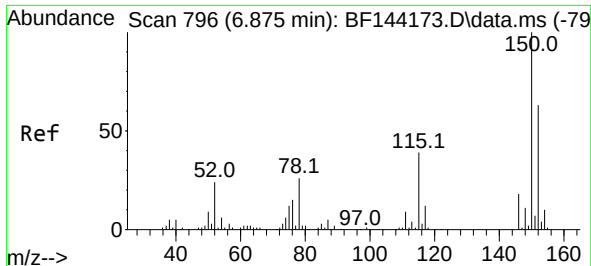
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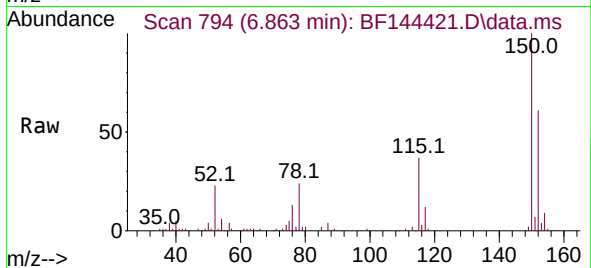
Quant Time: Dec 03 16:25:30 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 05 18:37:33 2025
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.863 min Scan# 796
Delta R.T. -0.012 min
Lab File: BF144421.D
Acq: 03 Dec 2025 16:06

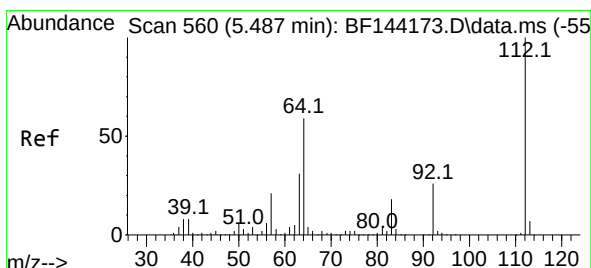
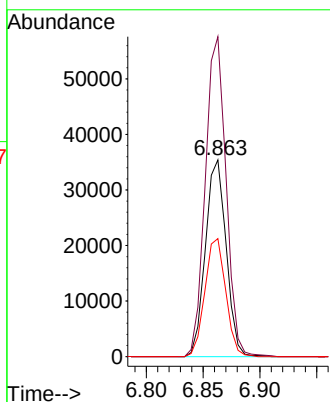
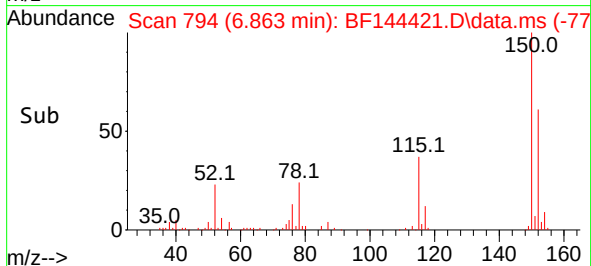
Instrument :
BNA_F
ClientSampleId :
B50-SP9-112425



Tgt Ion:152 Resp: 45091
Ion Ratio Lower Upper
152 100
150 162.6 127.4 191.0
115 59.9 49.5 74.3

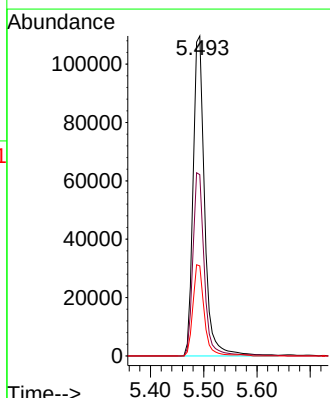
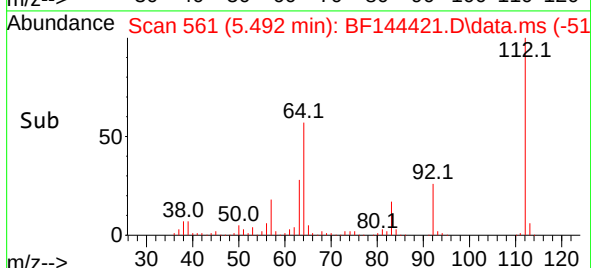
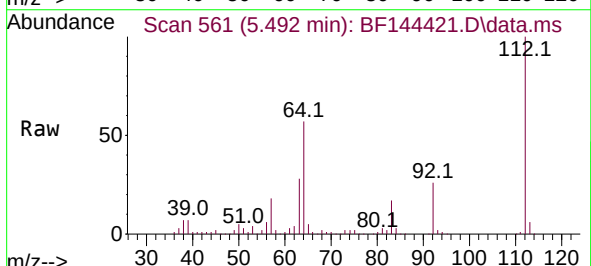
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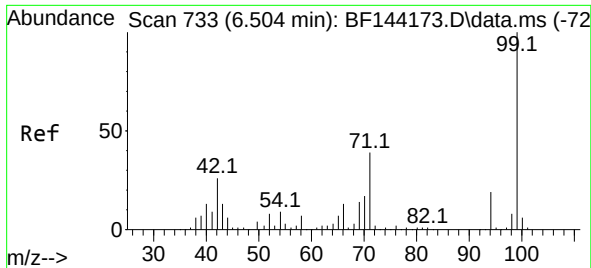
Reviewed By :Jagrut Upadhyay 12/04/2025
Supervised By :mohammad ahmed 12/09/2025



#5
2-Fluorophenol
Concen: 57.459 ng
RT: 5.492 min Scan# 561
Delta R.T. -0.000 min
Lab File: BF144421.D
Acq: 03 Dec 2025 16:06

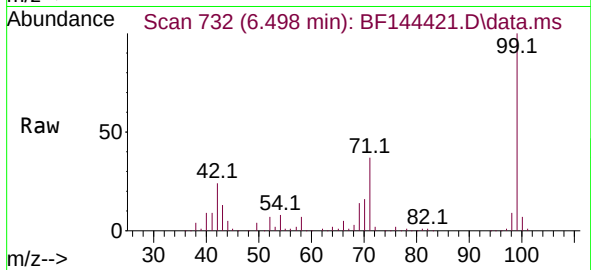
Tgt Ion:112 Resp: 165564
Ion Ratio Lower Upper
112 100
64 56.6 47.2 70.8
63 28.1 24.4 36.6





#7
Phenol-d6
Concen: 88.904 ng
RT: 6.498 min Scan# 731
Delta R.T. -0.000 min
Lab File: BF144421.D
Acq: 03 Dec 2025 16:06

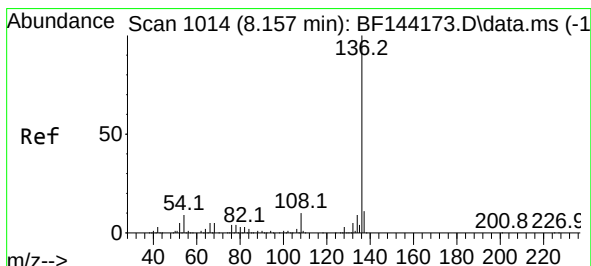
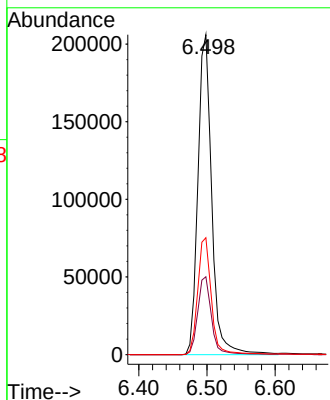
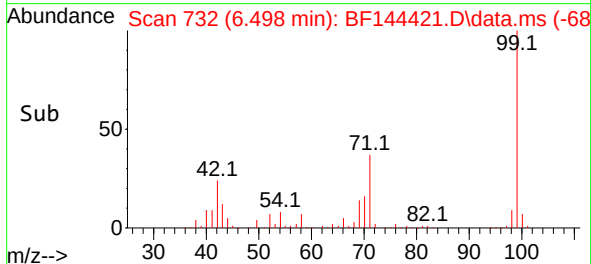
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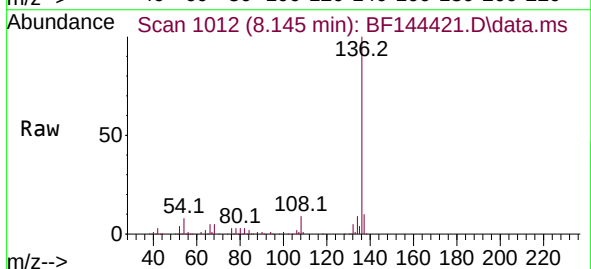
Tgt Ion: 99 Resp: 290264
Ion Ratio Lower Upper
99 100
42 24.3 20.9 31.3
71 36.5 31.4 47.2

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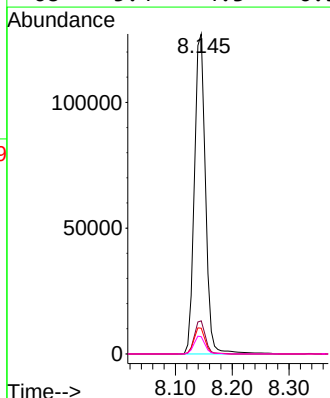
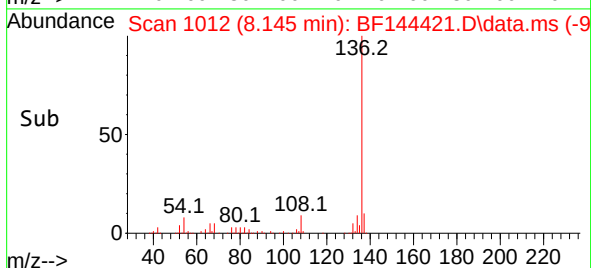
Reviewed By :Jagrut Upadhyay 12/04/2025
Supervised By :mohammad ahmed 12/09/2025

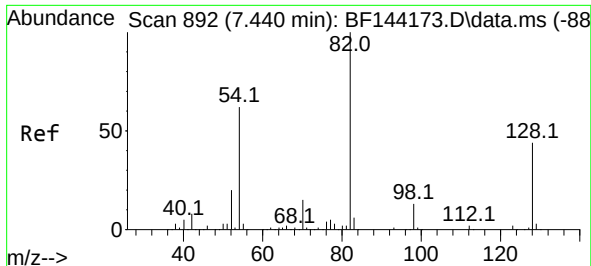


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.145 min Scan# 1012
Delta R.T. -0.012 min
Lab File: BF144421.D
Acq: 03 Dec 2025 16:06



Tgt Ion:136 Resp: 171081
Ion Ratio Lower Upper
136 100
137 10.3 8.6 13.0
54 8.0 7.0 10.6
68 5.4 4.3 6.5





#23

Nitrobenzene-d5

Concen: 64.203 ng

RT: 7.422 min Scan# 89

Delta R.T. -0.012 min

Lab File: BF144421.D

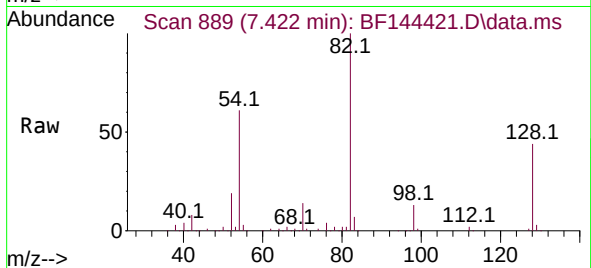
Acq: 03 Dec 2025 16:06

Instrument :

BNA_F

ClientSampleId :

B50-SP9-112425



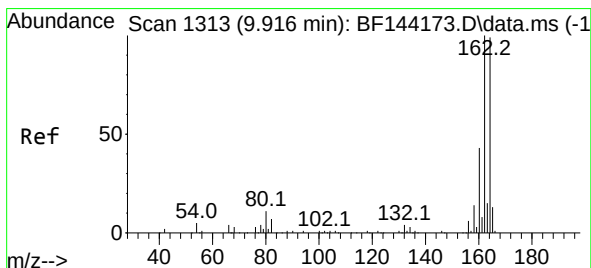
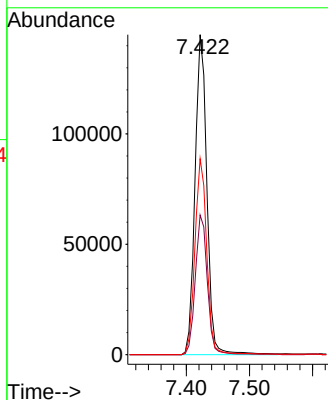
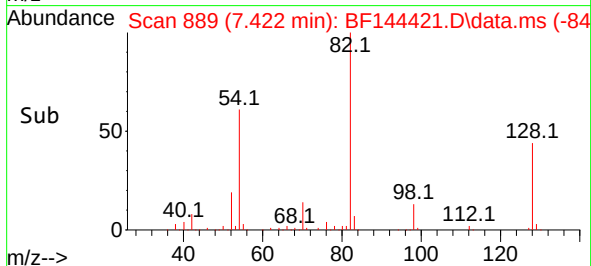
Tgt Ion: 82 Resp: 190182

Ion	Ratio	Lower	Upper
82	100		
128	43.6	34.7	52.1
54	61.2	49.5	74.3

Manual Integrations

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#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.898 min Scan# 1310

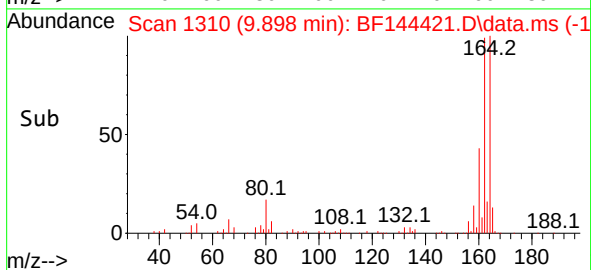
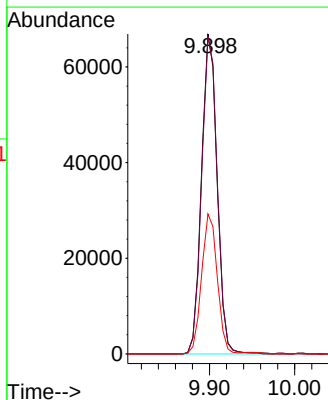
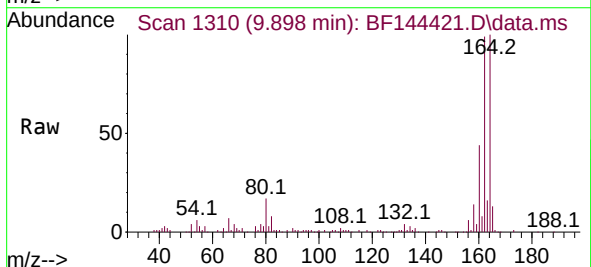
Delta R.T. -0.018 min

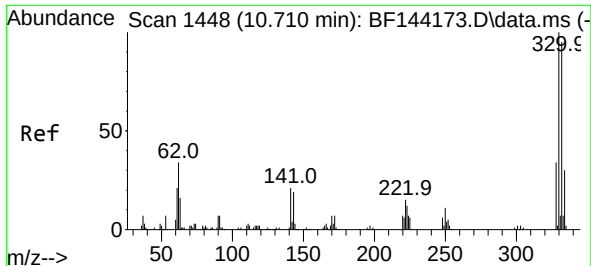
Lab File: BF144421.D

Acq: 03 Dec 2025 16:06

Tgt Ion:164 Resp: 84880

Ion	Ratio	Lower	Upper
164	100		
162	99.2	81.1	121.7
160	43.7	34.5	51.7





#42
2,4,6-Tribromophenol
Concen: 36.357 ng
RT: 10.692 min Scan# 1445
Delta R.T. -0.012 min
Lab File: BF144421.D
Acq: 03 Dec 2025 16:06

Instrument :

BNA_F

ClientSampleId :

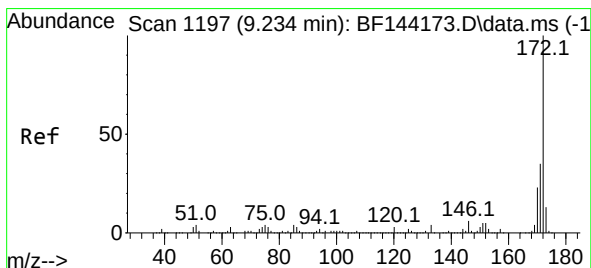
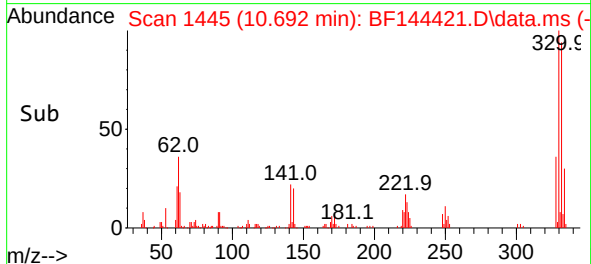
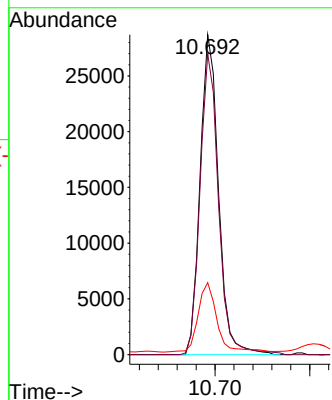
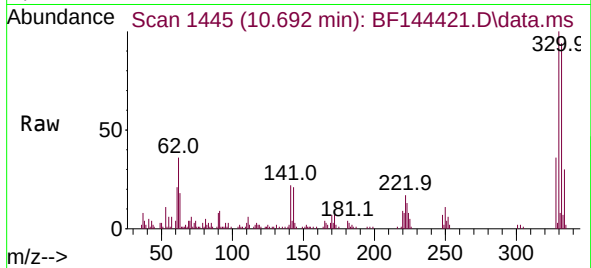
B50-SP9-112425

Tgt Ion:330 Resp: 38726
Ion Ratio Lower Upper
330 100
332 94.4 76.7 115.1
141 22.2 17.8 26.8

Manual Integrations

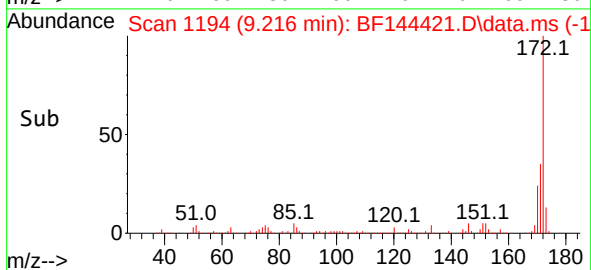
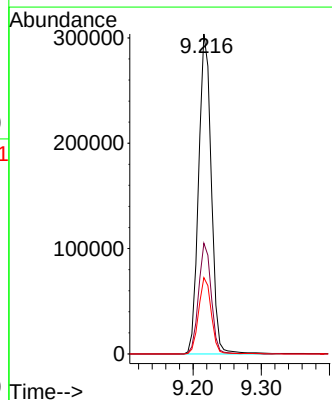
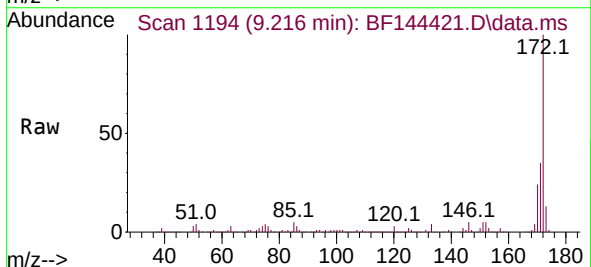
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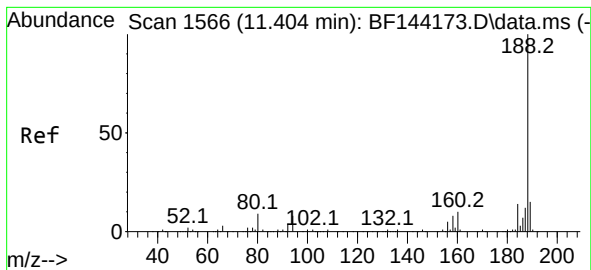
Reviewed By :Jagrut Upadhyay 12/04/2025
Supervised By :mohammad ahmed 12/09/2025



#45
2-Fluorobiphenyl
Concen: 68.445 ng
RT: 9.216 min Scan# 1194
Delta R.T. -0.012 min
Lab File: BF144421.D
Acq: 03 Dec 2025 16:06

Tgt Ion:172 Resp: 393357
Ion Ratio Lower Upper
172 100
171 34.6 28.1 42.1
170 23.8 18.6 28.0





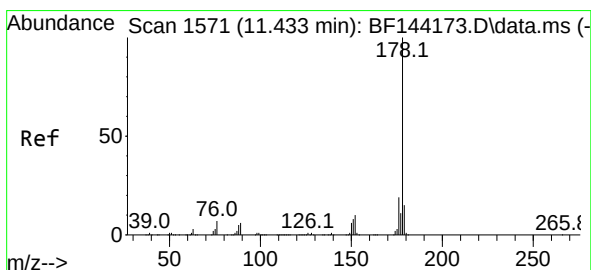
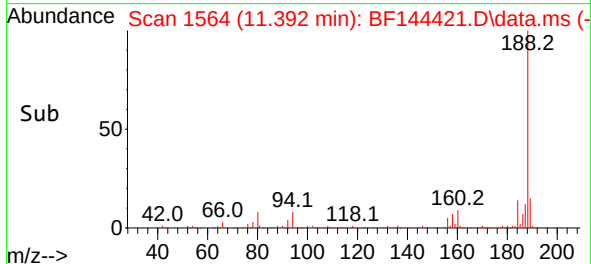
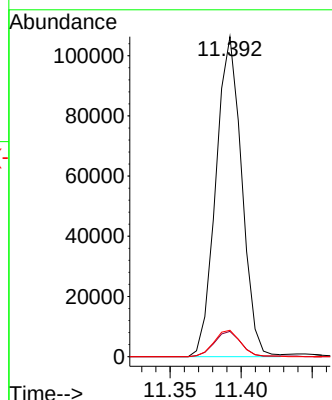
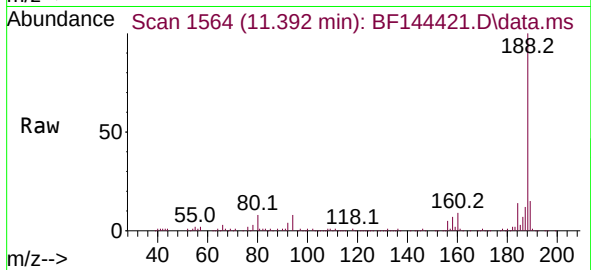
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.392 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF144421.D
Acq: 03 Dec 2025 16:06

Instrument :
BNA_F
ClientSampleId :
B50-SP9-112425

Tgt Ion:188 Resp: 134914
Ion Ratio Lower Upper
188 100
94 7.9 6.2 9.2
80 8.2 6.9 10.3

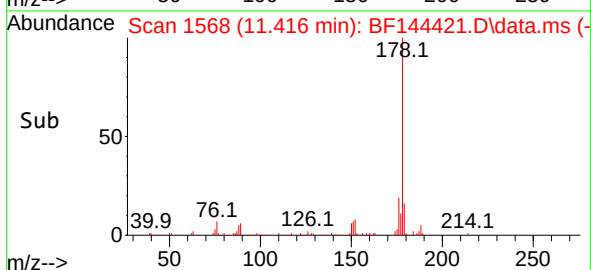
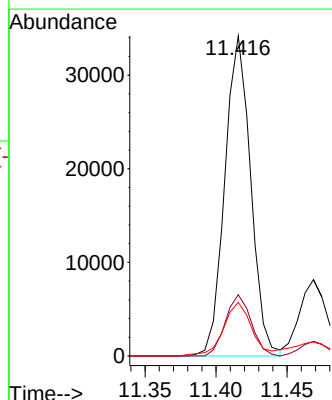
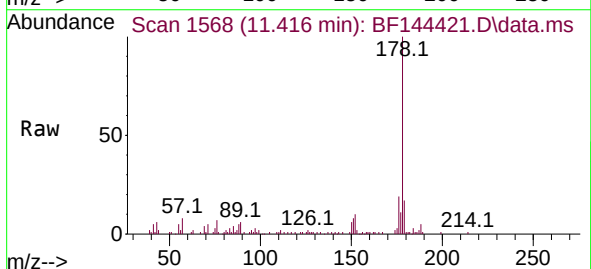
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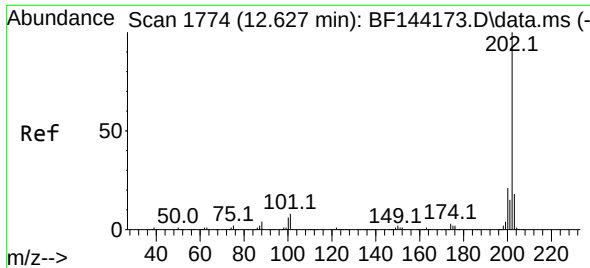
Reviewed By :Jagrut Upadhyay 12/04/2025
Supervised By :mohammad ahmed 12/09/2025



#71
Phenanthrene
Concen: 6.441 ng
RT: 11.416 min Scan# 1568
Delta R.T. -0.012 min
Lab File: BF144421.D
Acq: 03 Dec 2025 16:06

Tgt Ion:178 Resp: 43263
Ion Ratio Lower Upper
178 100
176 19.1 15.5 23.3
179 16.7 12.2 18.4





#75
Fluoranthene
Concen: 10.321 ng
RT: 12.610 min Scan# 1774
Delta R.T. -0.012 min
Lab File: BF144421.D
Acq: 03 Dec 2025 16:06

Instrument :

BNA_F

ClientSampleId :

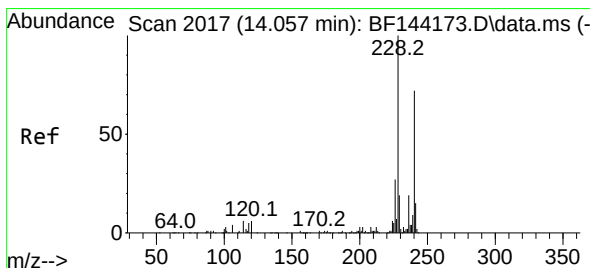
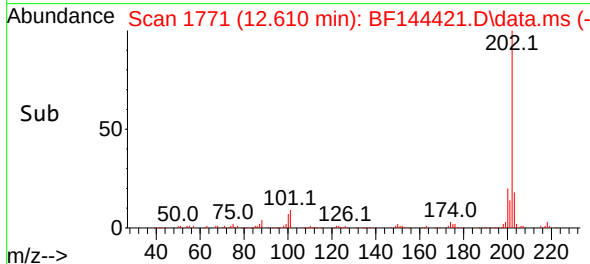
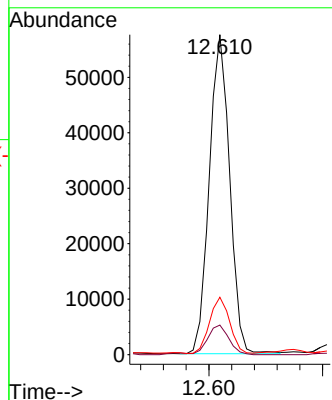
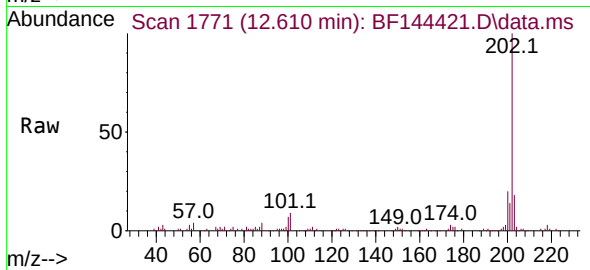
B50-SP9-112425

Tgt Ion:202 Resp: 71614
Ion Ratio Lower Upper
202 100
101 9.2 0.0 27.9
203 17.9 0.0 37.5

Manual Integrations

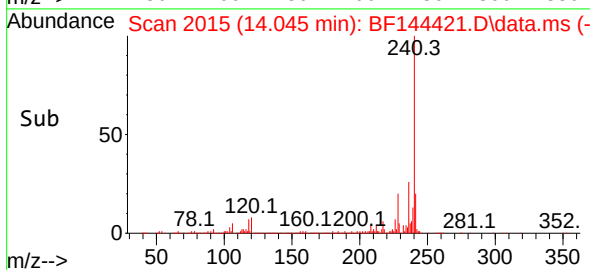
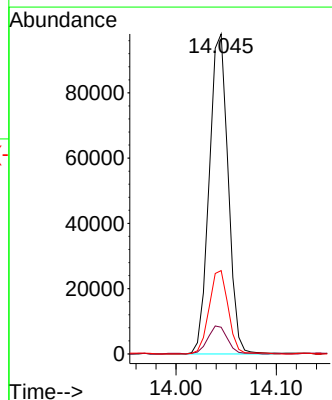
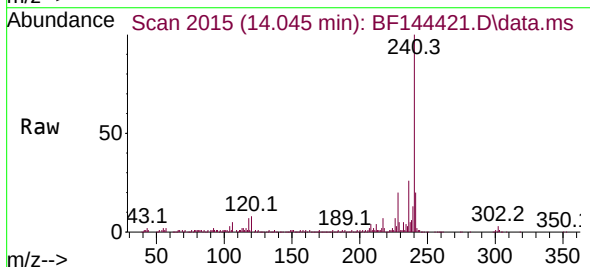
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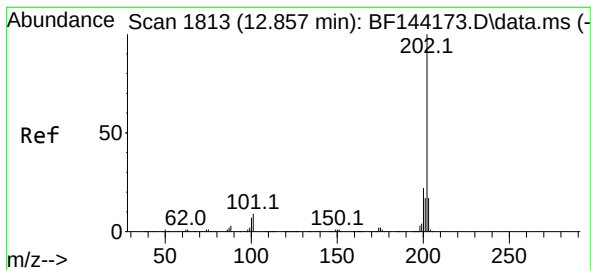
Reviewed By :Jagrut Upadhyay 12/04/2025
Supervised By :mohammad ahmed 12/09/2025



#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.045 min Scan# 2015
Delta R.T. -0.006 min
Lab File: BF144421.D
Acq: 03 Dec 2025 16:06

Tgt Ion:240 Resp: 128244
Ion Ratio Lower Upper
240 100
120 8.3 6.6 10.0
236 26.0 21.4 32.2





#78

Pyrene

Concen: 7.080 ng

RT: 12.839 min Scan# 1810

Delta R.T. -0.012 min

Lab File: BF144421.D

Acq: 03 Dec 2025 16:06

Instrument :

BNA_F

ClientSampleId :

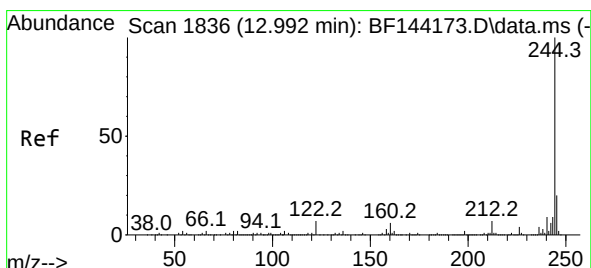
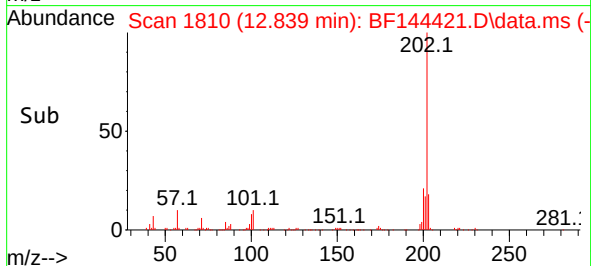
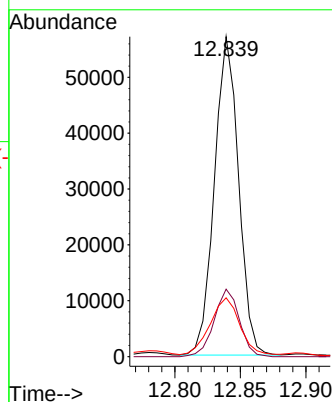
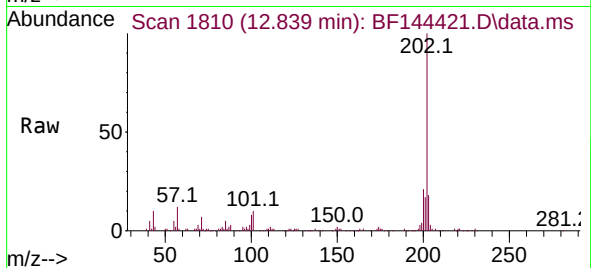
B50-SP9-112425

Tgt Ion:	202	Resp:	73212
Ion Ratio	Lower	Upper	
202	100		
200	21.1	17.2	25.8
203	18.4	13.7	20.5

Manual Integrations

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Reviewed By :Jagrut Upadhyay 12/04/2025
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#79

Terphenyl-d14

Concen: 49.209 ng

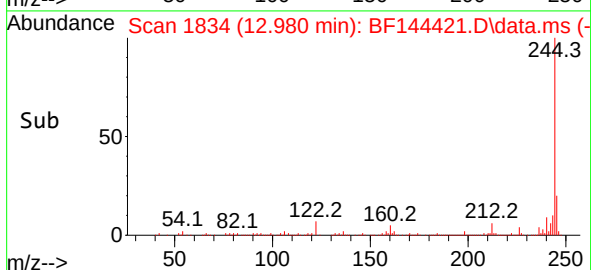
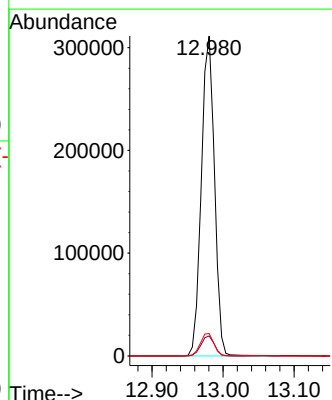
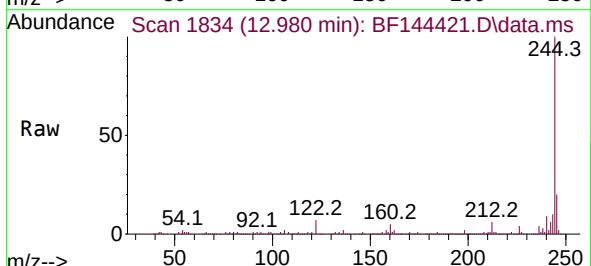
RT: 12.980 min Scan# 1834

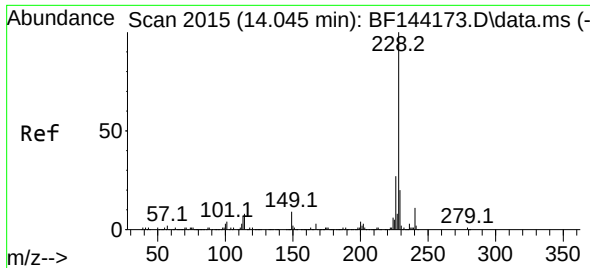
Delta R.T. -0.012 min

Lab File: BF144421.D

Acq: 03 Dec 2025 16:06

Tgt Ion:	244	Resp:	397302
Ion Ratio	Lower	Upper	
244	100		
212	6.2	5.3	7.9
122	7.0	5.6	8.4





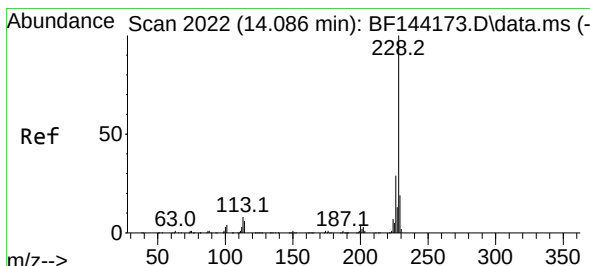
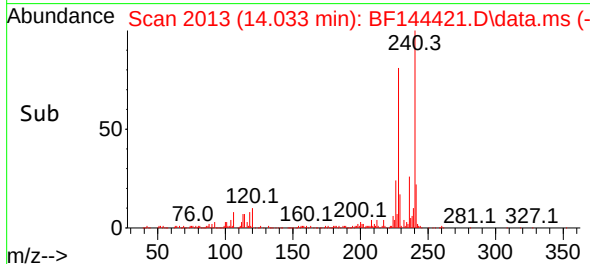
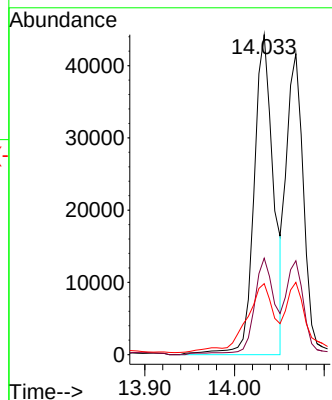
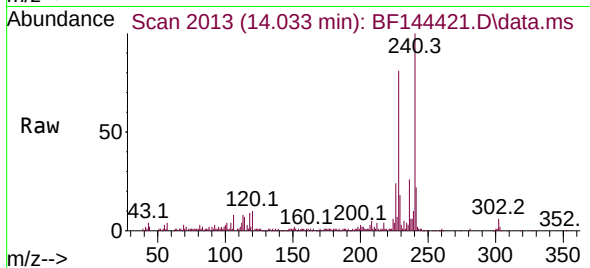
#81
Benzo(a)anthracene
Concen: 7.534 ng
RT: 14.033 min Scan# 2019
Delta R.T. -0.012 min
Lab File: BF144421.D
Acq: 03 Dec 2025 16:06

Instrument :
BNA_F
ClientSampleId :
B50-SP9-112425

Tgt Ion:228 Resp: 66962
Ion Ratio Lower Upper
228 100
226 30.1 21.8 32.8
229 22.2 15.8 23.6

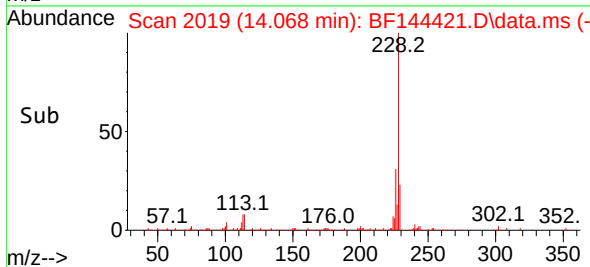
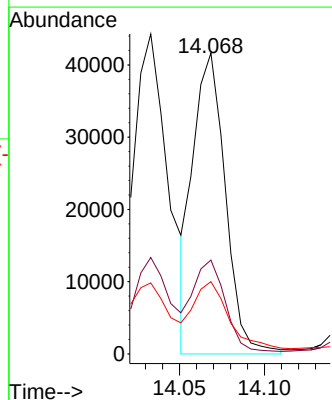
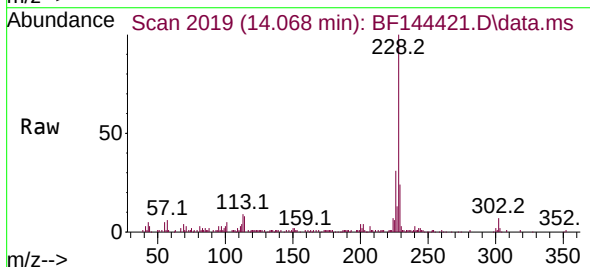
Manual Integrations
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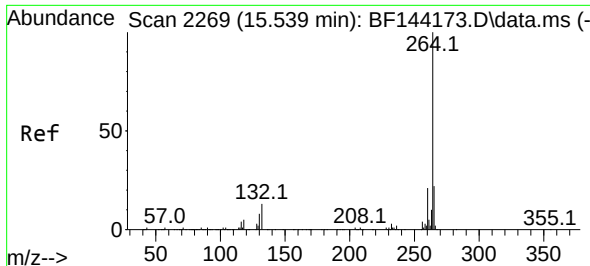
Reviewed By :Jagrut Upadhyay 12/04/2025
Supervised By :mohammad ahmed 12/09/2025



#83
Chrysene
Concen: 6.699 ng m
RT: 14.068 min Scan# 2019
Delta R.T. -0.012 min
Lab File: BF144421.D
Acq: 03 Dec 2025 16:06

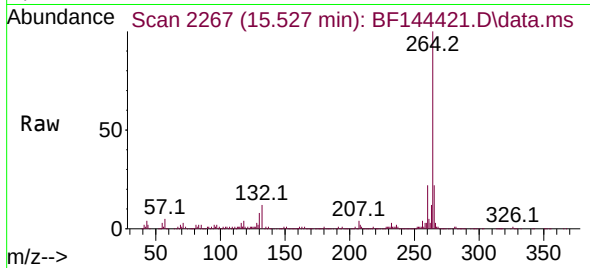
Tgt Ion:228 Resp: 54962
Ion Ratio Lower Upper
228 100
226 31.2 22.9 34.3
229 24.0 15.0 22.6#





#86
Perylene-d12
Concen: 20.000 ng
RT: 15.527 min Scan# 21
Delta R.T. -0.012 min
Lab File: BF144421.D
Acq: 03 Dec 2025 16:06

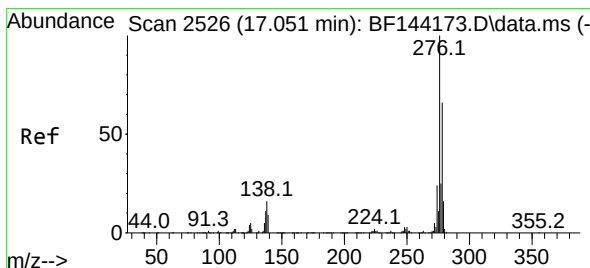
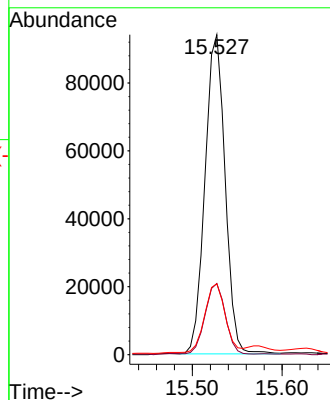
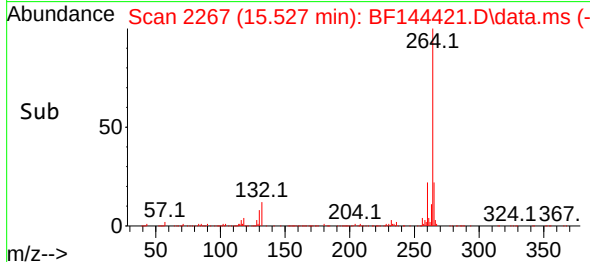
Instrument :
BNA_F
ClientSampleId :
B50-SP9-112425



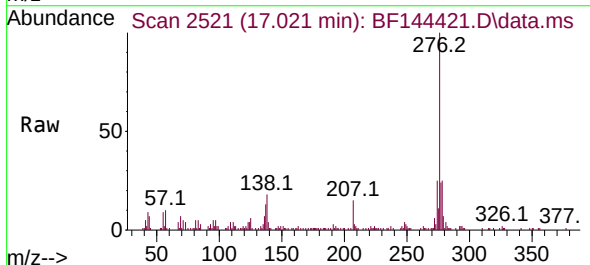
Tgt Ion:264 Resp: 147094
Ion Ratio Lower Upper
264 100
260 22.2 17.1 25.7
265 22.1 17.4 26.0

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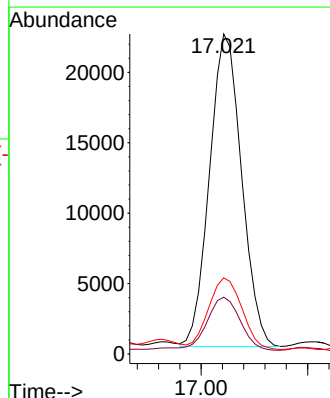
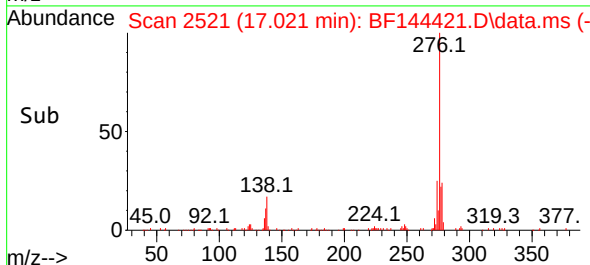
Reviewed By :Jagrut Upadhyay 12/04/2025
Supervised By :mohammad ahmed 12/09/2025

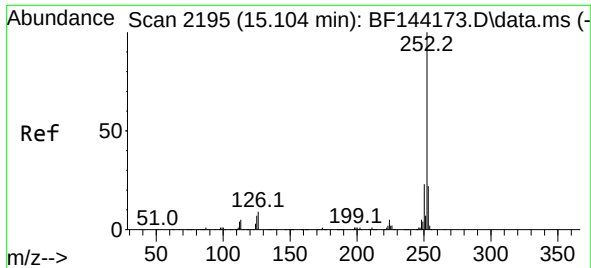


#87
Indeno(1,2,3-cd)pyrene
Concen: 4.398 ng
RT: 17.021 min Scan# 2521
Delta R.T. -0.012 min
Lab File: BF144421.D
Acq: 03 Dec 2025 16:06



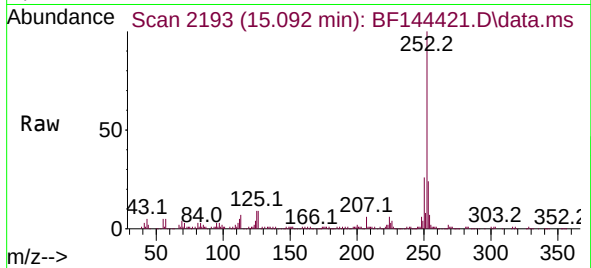
Tgt Ion:276 Resp: 46436
Ion Ratio Lower Upper
276 100
138 18.0 13.9 20.9
277 24.2 19.8 29.6





#88
Benzo(b)fluoranthene
Concen: 12.268 ng m
RT: 15.092 min Scan# 2195
Delta R.T. -0.006 min
Lab File: BF144421.D
Acq: 03 Dec 2025 16:06

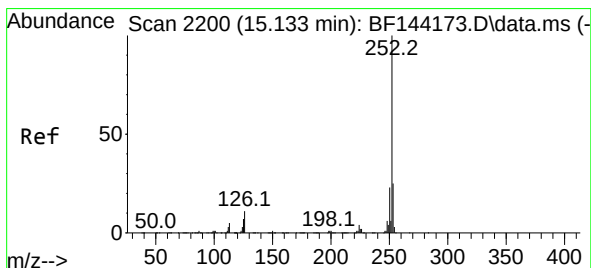
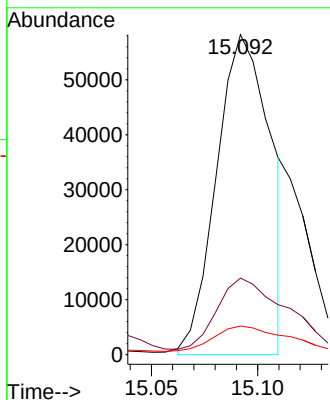
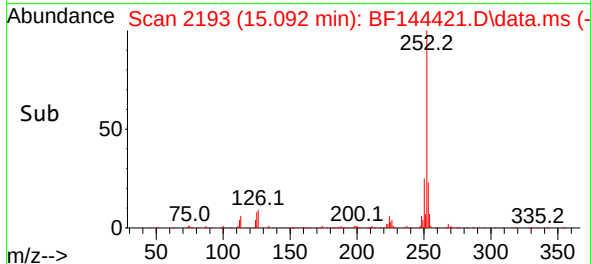
Instrument :
BNA_F
ClientSampleId :
B50-SP9-112425



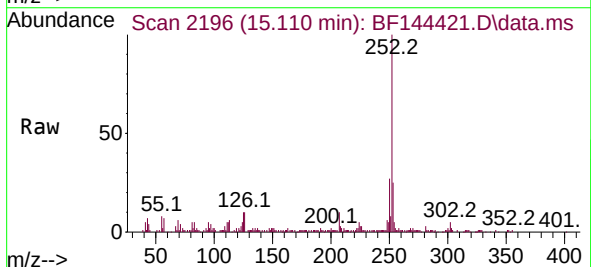
Tgt Ion:252 Resp: 102591
Ion Ratio Lower Upper
252 100
253 23.9 17.4 26.2
125 8.9 5.3 7.9

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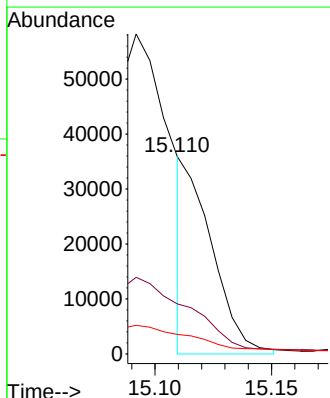
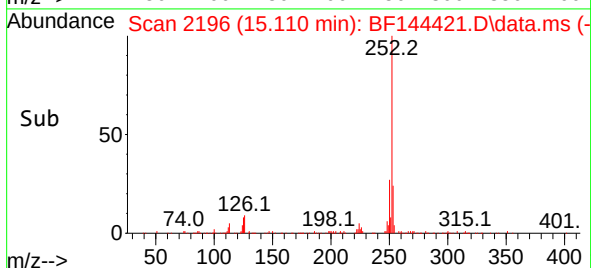
Reviewed By :Jagrut Upadhyay 12/04/2025
Supervised By :mohammad ahmed 12/09/2025

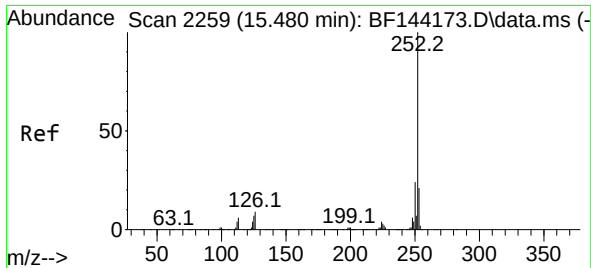


#89
Benzo(k)fluoranthene
Concen: 3.760 ng m
RT: 15.110 min Scan# 2196
Delta R.T. -0.018 min
Lab File: BF144421.D
Acq: 03 Dec 2025 16:06



Tgt Ion:252 Resp: 29429
Ion Ratio Lower Upper
252 100
253 25.4 18.0 27.0
125 9.9 5.4 8.2





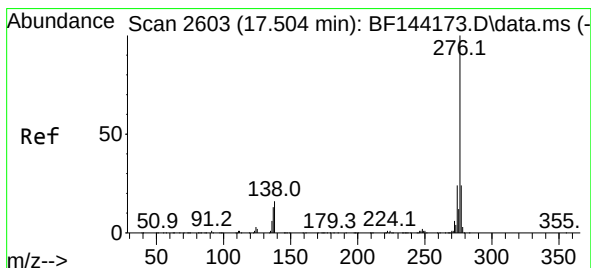
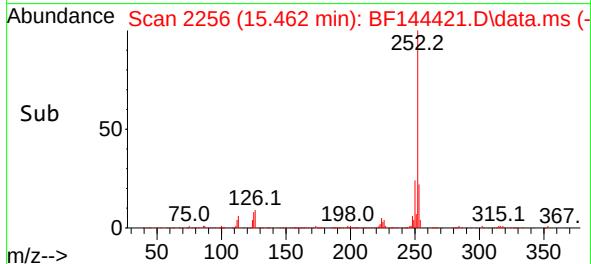
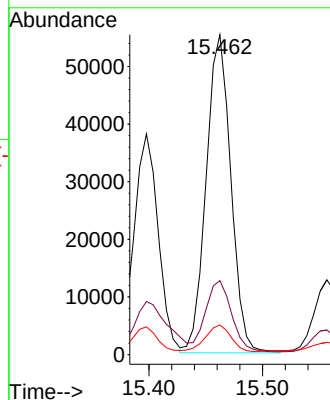
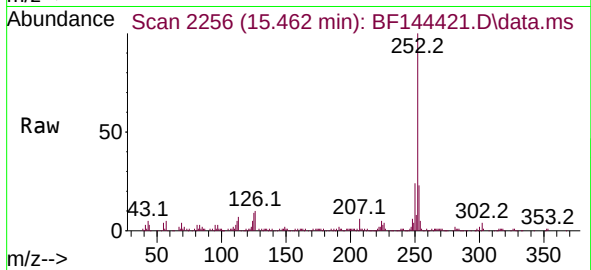
#90
Benzo(a)pyrene
Concen: 10.837 ng
RT: 15.462 min Scan# 2256
Delta R.T. -0.012 min
Lab File: BF144421.D
Acq: 03 Dec 2025 16:06

Instrument :
BNA_F
ClientSampleId :
B50-SP9-112425

Tgt Ion:252 Resp: 83609
Ion Ratio Lower Upper
252 100
253 23.1 16.7 25.1
125 9.3 5.7 8.5

Manual Integrations
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Reviewed By :Jagrut Upadhyay 12/04/2025
Supervised By :mohammad ahmed 12/09/2025



#92
Benzo(g,h,i)perylene
Concen: 5.642 ng
RT: 17.480 min Scan# 2599
Delta R.T. -0.012 min
Lab File: BF144421.D
Acq: 03 Dec 2025 16:06

Tgt Ion:276 Resp: 47247
Ion Ratio Lower Upper
276 100
277 23.9 19.0 28.4
138 16.7 12.9 19.3

