

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102725\
 Data File : BF144089.D
 Acq On : 27 Oct 2025 18:03
 Operator : RC/JU
 Sample : Q3412-01DL 5X
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP-6DL

Manual Integrations
 APPROVED

Reviewed By :Rahul Chavli 10/28/2025
 Supervised By :mohammad ahmed 10/30/2025

Quant Time: Oct 27 18:28:18 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF102425.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Oct 24 17:30:25 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.881	152	48292	20.000	ng	0.00
21) Naphthalene-d8	8.163	136	172683	20.000	ng	0.00
39) Acenaphthene-d10	9.916	164	99707	20.000	ng	0.00
64) Phenanthrene-d10	11.410	188	167487	20.000	ng	0.00
76) Chrysene-d12	14.057	240	142231	20.000	ng	0.00
86) Perylene-d12	15.545	264	188881	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.493	112	36921	12.096	ng	0.00
7) Phenol-d6	6.504	99	41760	12.388	ng	0.00
23) Nitrobenzene-d5	7.440	82	25435	8.070	ng	0.00
42) 2,4,6-Tribromophenol	10.710	330	12199	9.605	ng	0.00
45) 2-Fluorobiphenyl	9.234	172	55730	7.865	ng	0.00
79) Terphenyl-d14	12.992	244	64046	7.872	ng	0.00
Target Compounds						Qvalue
52) Acenaphthene	9.951	154	18865	3.504	ng	97
55) Dibenzofuran	10.128	168	17283	2.312	ng	95
58) Fluorene	10.469	166	29774	5.227	ng	100
71) Phenanthrene	11.433	178	244923	29.438	ng	98
72) Anthracene	11.486	178	93364	10.863	ng	99
75) Fluoranthene	12.627	202	398344	43.336	ng	100
78) Pyrene	12.857	202	304086	29.738	ng	99
81) Benzo(a)anthracene	14.045	228	204132	21.237	ng	97
83) Chrysene	14.080	228	160971	17.846	ng	97
87) Indeno(1,2,3-cd)pyrene	17.039	276	70606	5.445	ng	99
88) Benzo(b)fluoranthene	15.110	252	207000m	19.386	ng	
89) Benzo(k)fluoranthene	15.121	252	94012m	9.542	ng	
90) Benzo(a)pyrene	15.480	252	153686	16.043	ng	97
92) Benzo(g,h,i)perylene	17.492	276	53170	5.152	ng	# 93

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

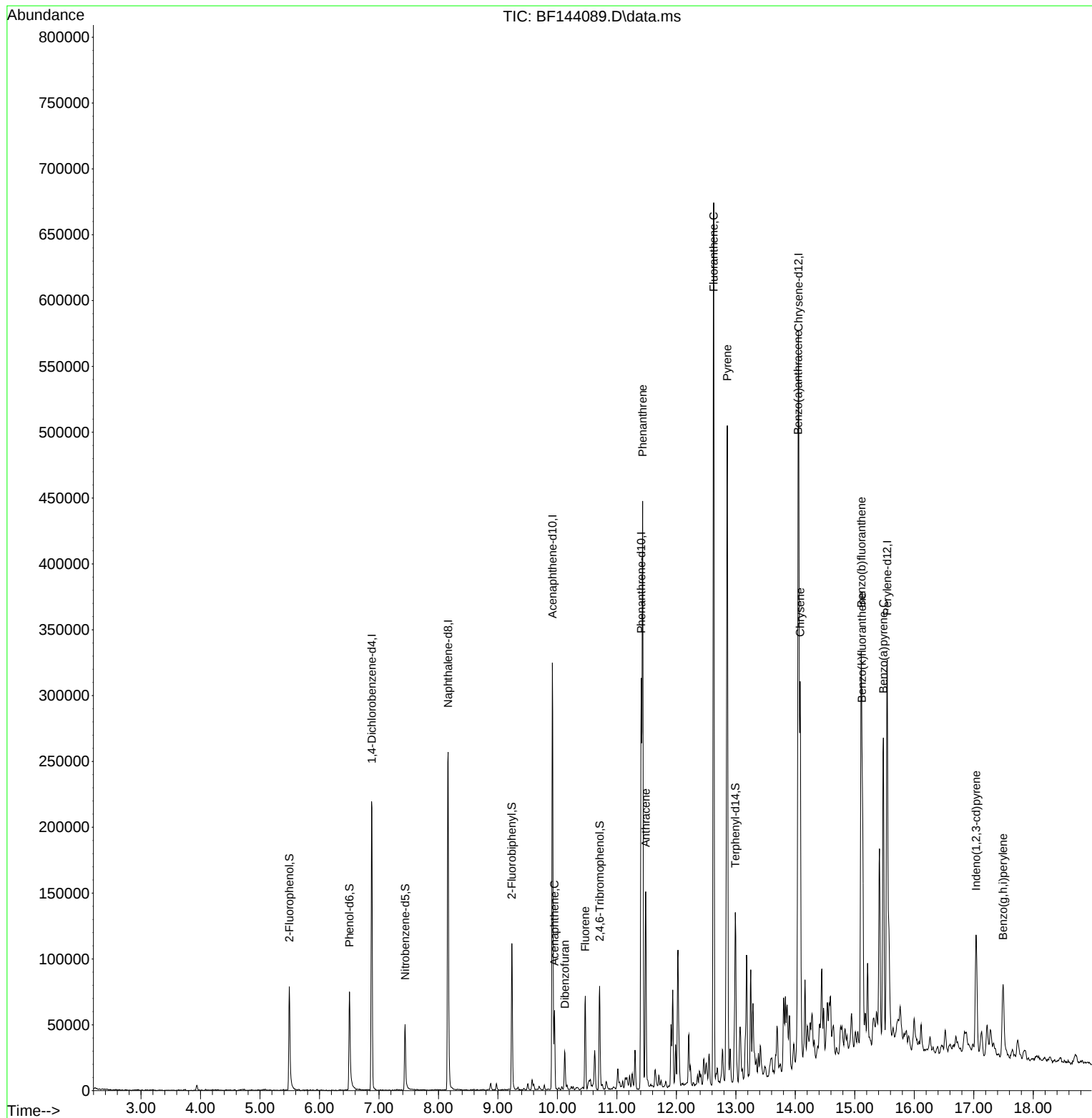
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102725\
Data File : BF144089.D
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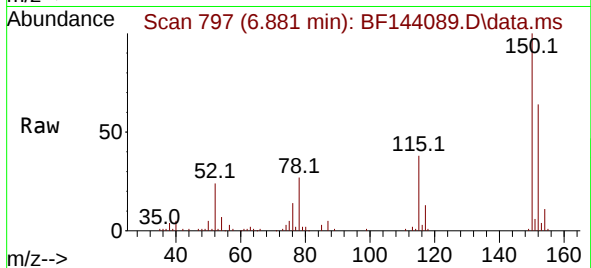
Reviewed By :Rahul Chavli 10/28/2025
Supervised By :mohammad ahmed 10/30/2025





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.881 min Scan# 797
Delta R.T. -0.000 min
Lab File: BF144089.D
Acq: 27 Oct 2025 18:03

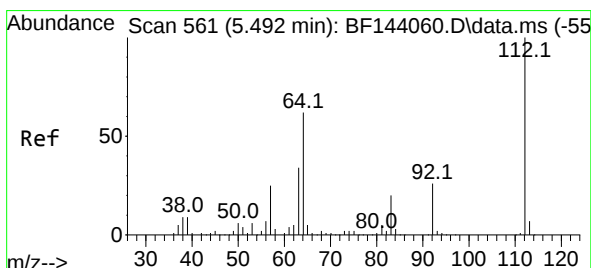
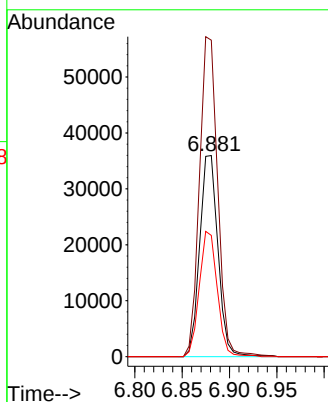
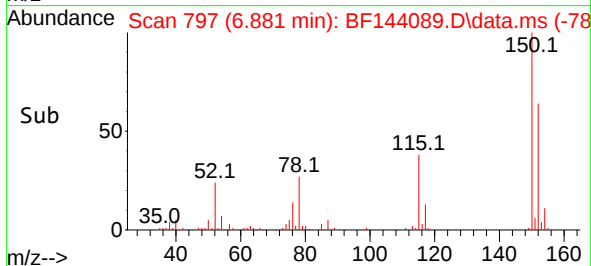
Instrument :
BNA_F
ClientSampleId :
TP-6DL



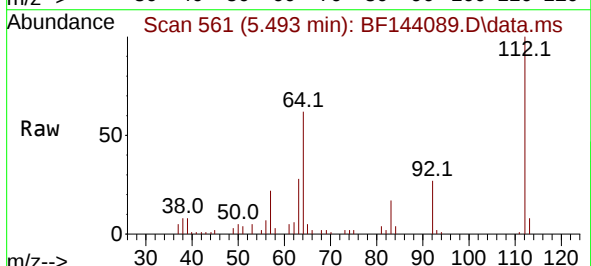
Tgt Ion:152 Resp: 48292
Ion Ratio Lower Upper
152 100
150 157.4 124.4 186.6
115 60.3 49.4 74.0

Manual Integrations
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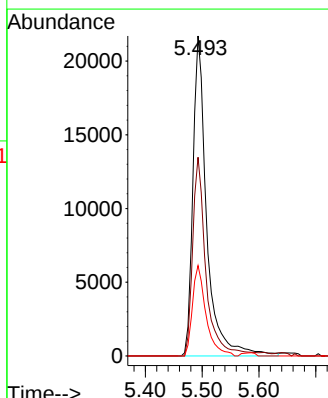
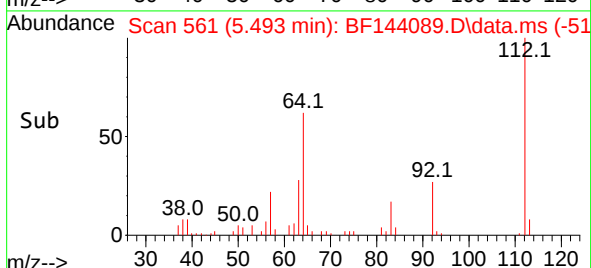
Reviewed By :Rahul Chavli 10/28/2025
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#5
2-Fluorophenol
Concen: 12.096 ng
RT: 5.493 min Scan# 561
Delta R.T. 0.000 min
Lab File: BF144089.D
Acq: 27 Oct 2025 18:03



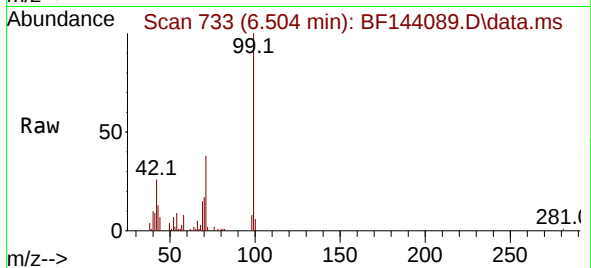
Tgt Ion:112 Resp: 36921
Ion Ratio Lower Upper
112 100
64 62.1 49.8 74.8
63 28.2 27.4 41.2





#7
Phenol-d6
Concen: 12.388 ng
RT: 6.504 min Scan# 733
Delta R.T. 0.000 min
Lab File: BF144089.D
Acq: 27 Oct 2025 18:03

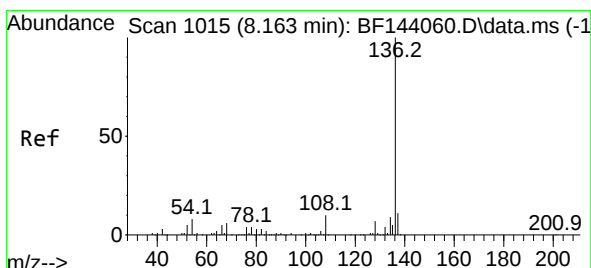
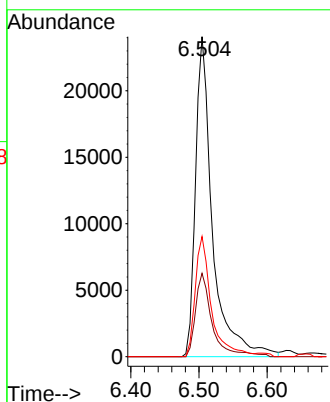
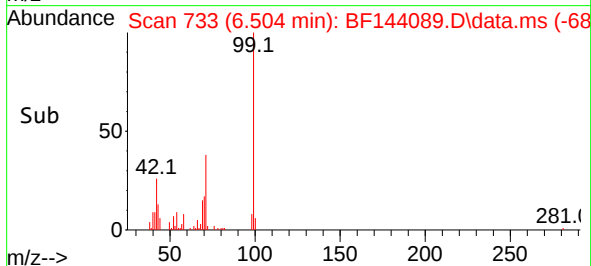
Instrument :
BNA_F
ClientSampleId :
TP-6DL



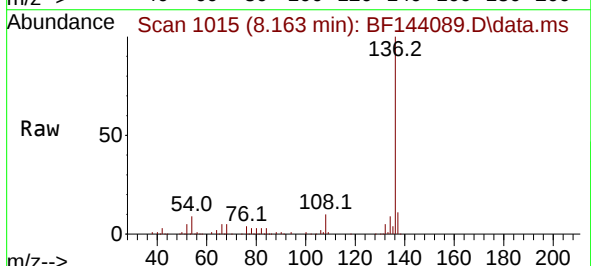
Tgt Ion: 99 Resp: 41760
Ion Ratio Lower Upper
99 100
42 26.1 23.9 35.9
71 37.5 34.4 51.6

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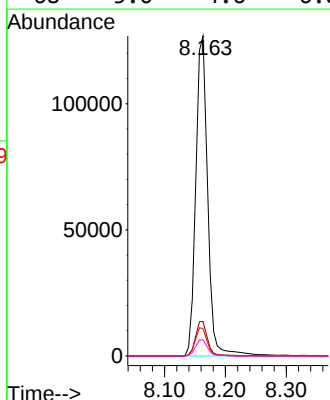
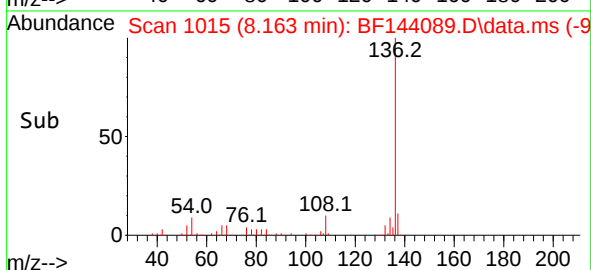
Reviewed By :Rahul Chavli 10/28/2025
Supervised By :mohammad ahmed 10/30/2025

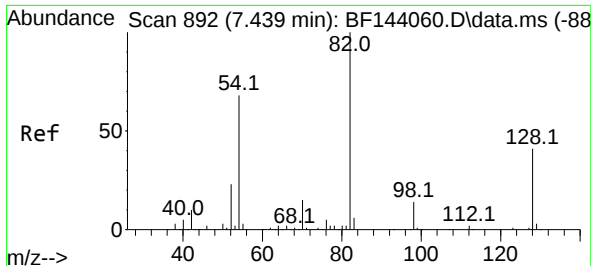


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.163 min Scan# 1015
Delta R.T. 0.000 min
Lab File: BF144089.D
Acq: 27 Oct 2025 18:03



Tgt Ion:136 Resp: 172683
Ion Ratio Lower Upper
136 100
137 10.7 8.6 13.0
54 8.6 6.6 9.8
68 5.0 4.6 6.8





#23

Nitrobenzene-d5

Concen: 8.070 ng

RT: 7.440 min Scan# 892

Delta R.T. 0.000 min

Lab File: BF144089.D

Acq: 27 Oct 2025 18:03

Instrument :

BNA_F

ClientSampleId :

TP-6DL

Tgt Ion: 82 Resp: 25435

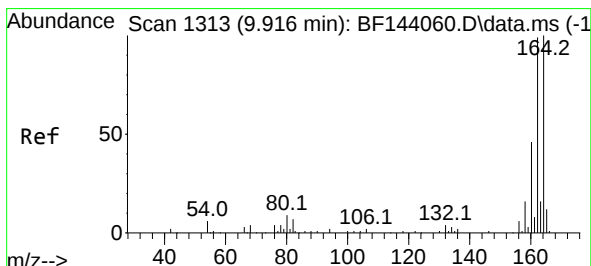
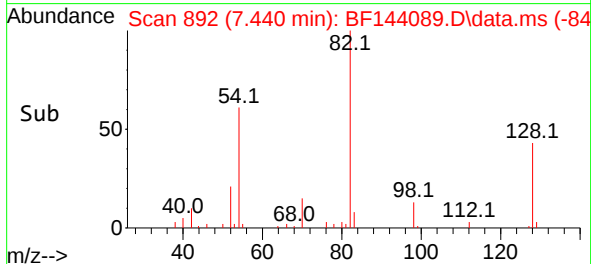
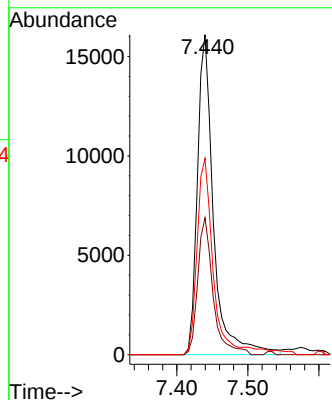
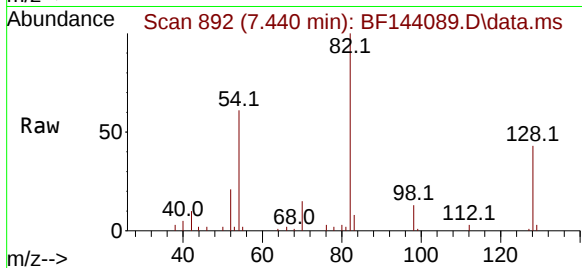
Ion	Ratio	Lower	Upper
82	100		
128	42.8	32.4	48.6
54	61.4	54.0	81.0

Manual Integrations

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#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.916 min Scan# 1313

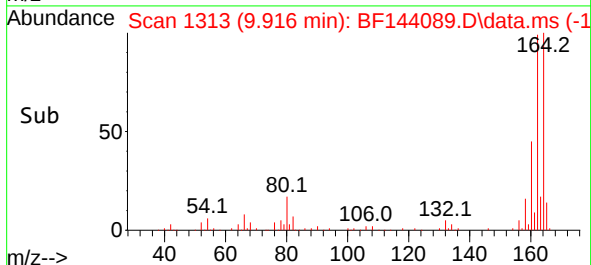
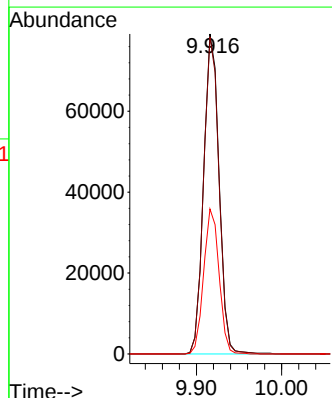
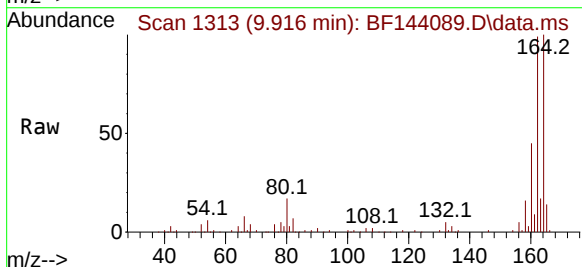
Delta R.T. 0.000 min

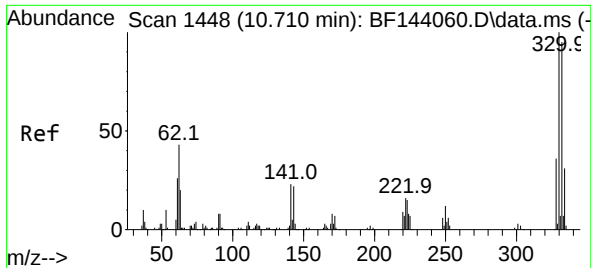
Lab File: BF144089.D

Acq: 27 Oct 2025 18:03

Tgt Ion:164 Resp: 99707

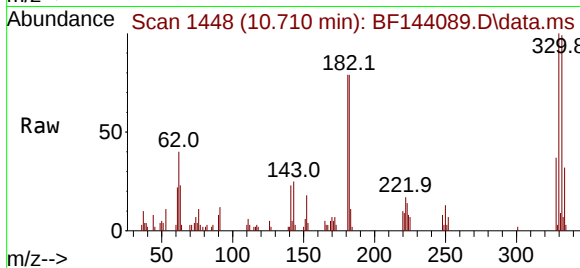
Ion	Ratio	Lower	Upper
164	100		
162	99.1	79.4	119.2
160	45.3	36.7	55.1





#42
2,4,6-Tribromophenol
Concen: 9.605 ng
RT: 10.710 min Scan# 1448
Delta R.T. 0.000 min
Lab File: BF144089.D
Acq: 27 Oct 2025 18:03

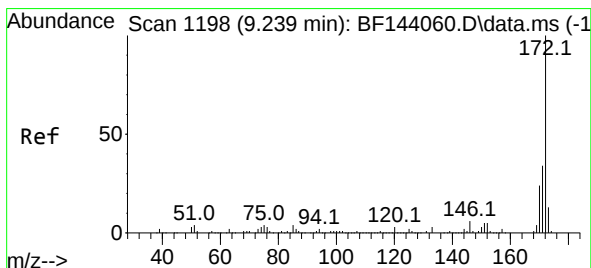
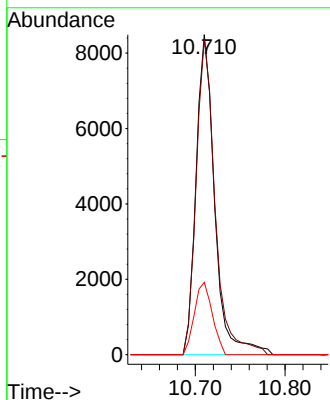
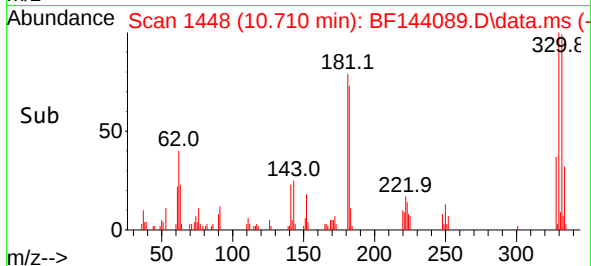
Instrument :
BNA_F
ClientSampleId :
TP-6DL



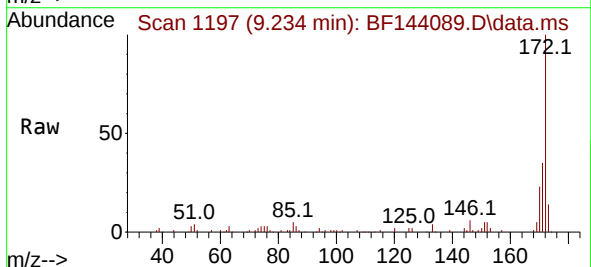
Tgt Ion:330 Resp: 1219
Ion Ratio Lower Upper
330 100
332 100.4 77.0 115.6
141 21.8 19.4 29.0

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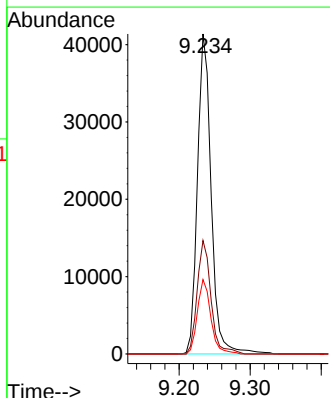
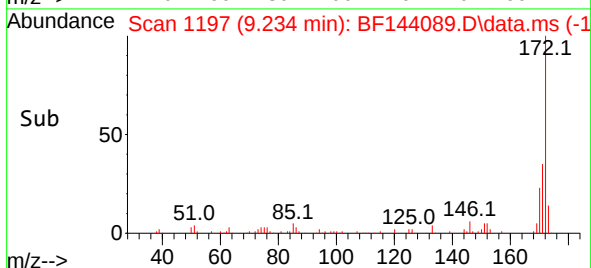
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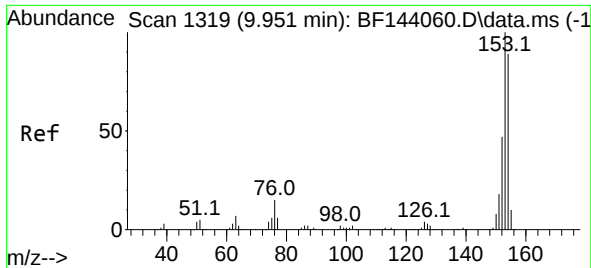


#45
2-Fluorobiphenyl
Concen: 7.865 ng
RT: 9.234 min Scan# 1197
Delta R.T. -0.006 min
Lab File: BF144089.D
Acq: 27 Oct 2025 18:03



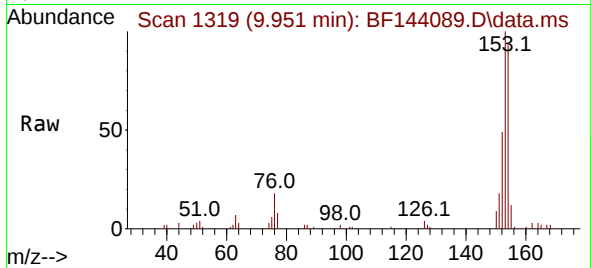
Tgt Ion:172 Resp: 55730
Ion Ratio Lower Upper
172 100
171 35.4 27.5 41.3
170 23.2 19.0 28.6





#52
Acenaphthene
Concen: 3.504 ng
RT: 9.951 min Scan# 1319
Delta R.T. 0.000 min
Lab File: BF144089.D
Acq: 27 Oct 2025 18:03

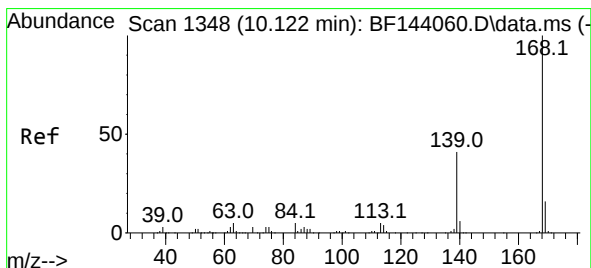
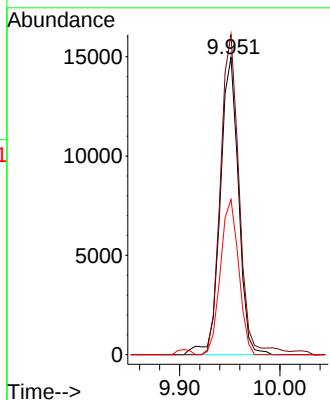
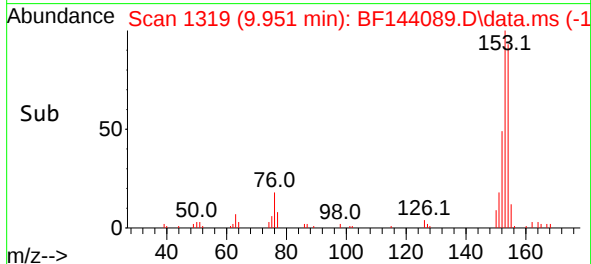
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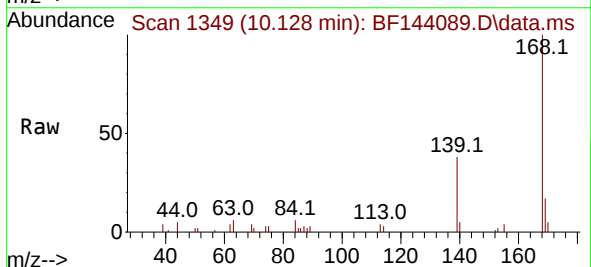
Tgt Ion:154 Resp: 1886
Ion Ratio Lower Upper
154 100
153 107.7 89.9 134.9
152 52.2 42.0 63.0

Manual Integrations
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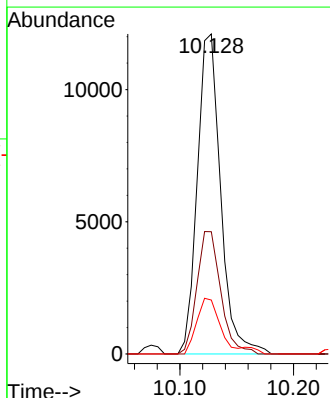
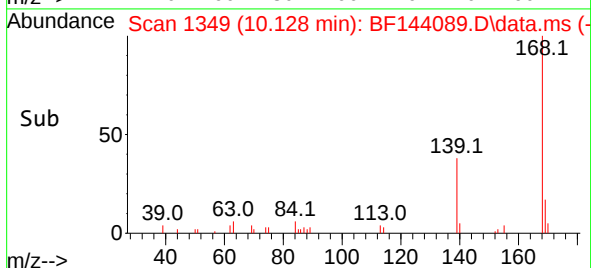
Reviewed By :Rahul Chavli 10/28/2025
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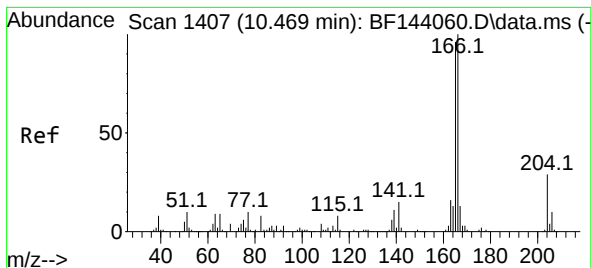


#55
Dibenzofuran
Concen: 2.312 ng
RT: 10.128 min Scan# 1349
Delta R.T. 0.006 min
Lab File: BF144089.D
Acq: 27 Oct 2025 18:03



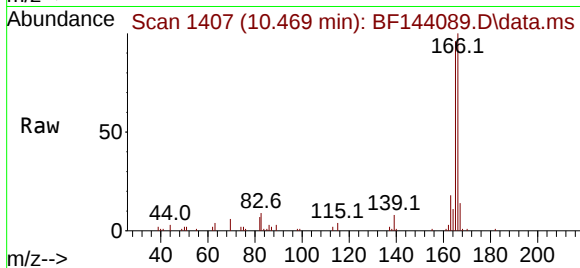
Tgt Ion:168 Resp: 17283
Ion Ratio Lower Upper
168 100
139 38.2 33.2 49.8
169 16.9 12.6 19.0





#58
Fluorene
Concen: 5.227 ng
RT: 10.469 min Scan# 1407
Delta R.T. 0.000 min
Lab File: BF144089.D
Acq: 27 Oct 2025 18:03

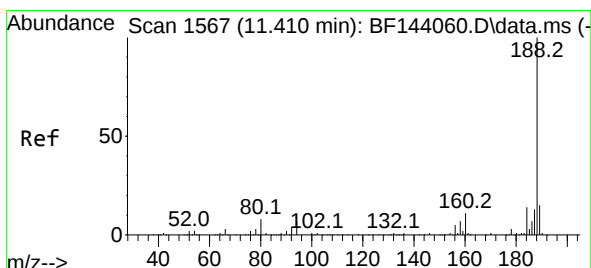
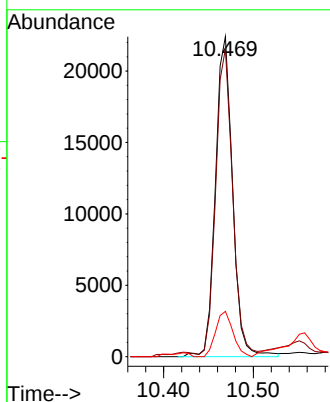
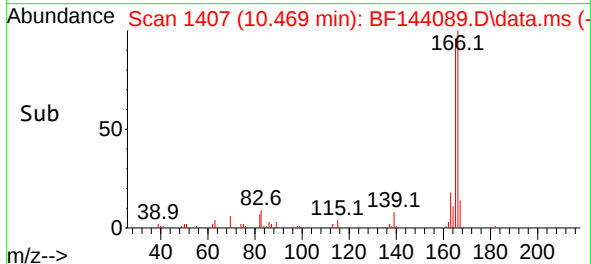
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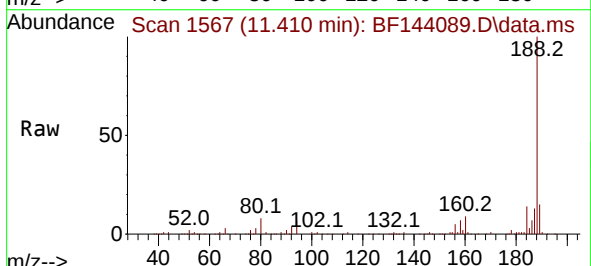
Tgt Ion:166 Resp: 29774
Ion Ratio Lower Upper
166 100
165 96.2 77.0 115.4
167 14.1 10.2 15.4

Manual Integrations
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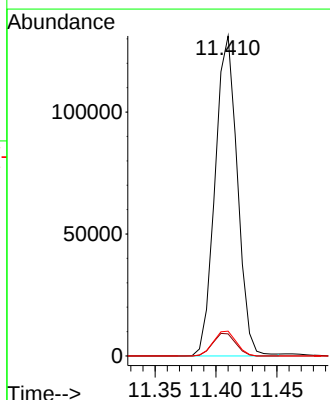
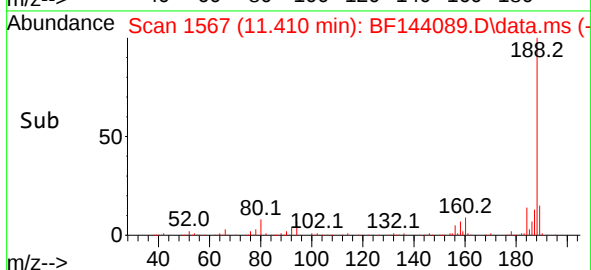
Reviewed By :Rahul Chavli 10/28/2025
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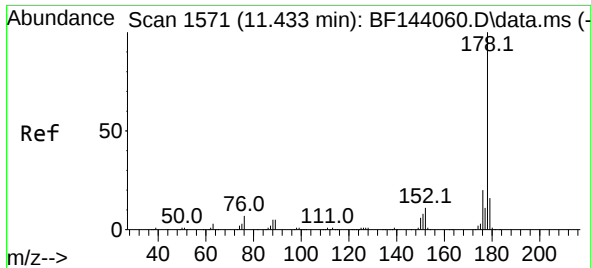


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.410 min Scan# 1567
Delta R.T. 0.000 min
Lab File: BF144089.D
Acq: 27 Oct 2025 18:03



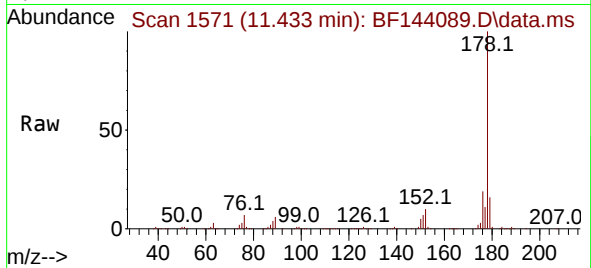
Tgt Ion:188 Resp: 167487
Ion Ratio Lower Upper
188 100
94 6.9 5.4 8.0
80 7.7 6.0 9.0





#71
Phenanthrene
Concen: 29.438 ng
RT: 11.433 min Scan# 1571
Delta R.T. 0.000 min
Lab File: BF144089.D
Acq: 27 Oct 2025 18:03

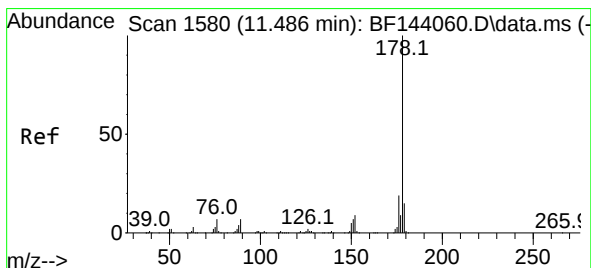
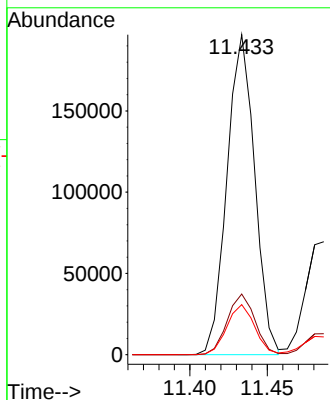
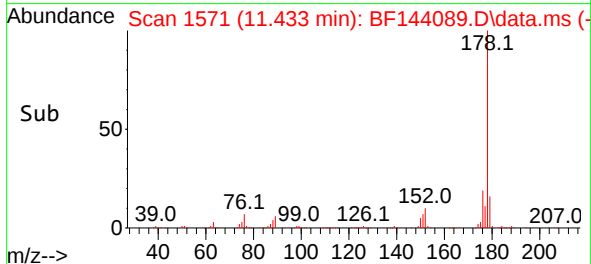
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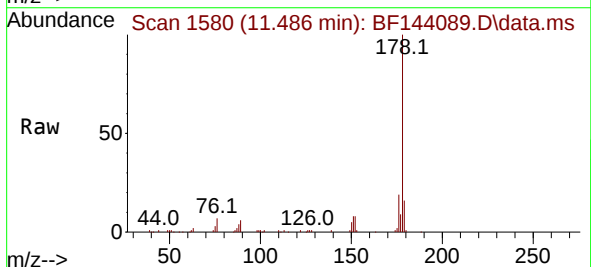
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Ion Ratio Lower Upper
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176 19.0 16.3 24.5
179 15.6 12.6 18.8

Manual Integrations
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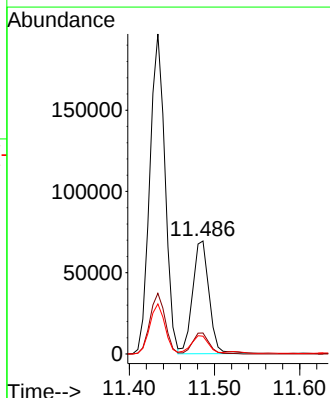
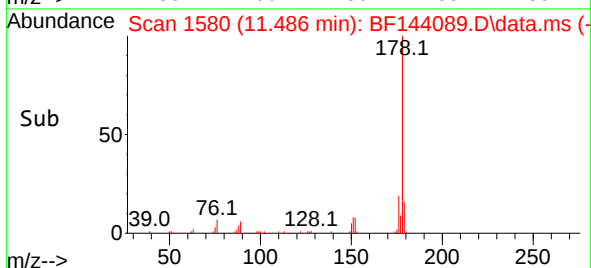
Reviewed By :Rahul Chavli 10/28/2025
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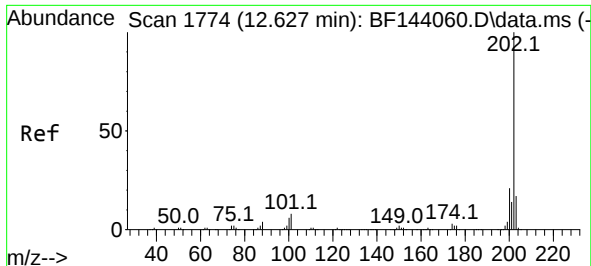


#72
Anthracene
Concen: 10.863 ng
RT: 11.486 min Scan# 1580
Delta R.T. 0.000 min
Lab File: BF144089.D
Acq: 27 Oct 2025 18:03



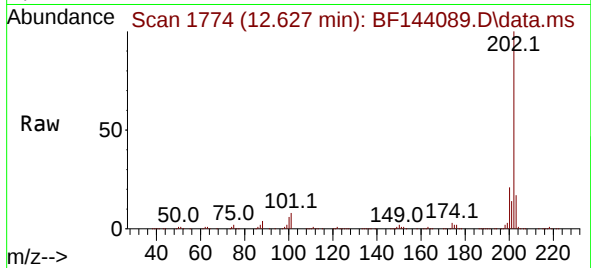
Tgt Ion:178 Resp: 93364
Ion Ratio Lower Upper
178 100
176 18.6 15.0 22.4
179 15.8 11.8 17.6





#75
Fluoranthene
Concen: 43.336 ng
RT: 12.627 min Scan# 1774
Delta R.T. 0.000 min
Lab File: BF144089.D
Acq: 27 Oct 2025 18:03

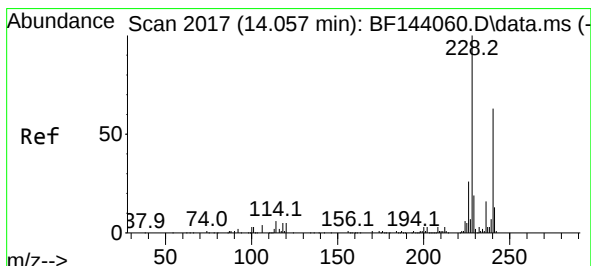
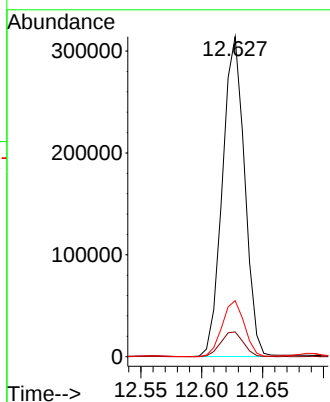
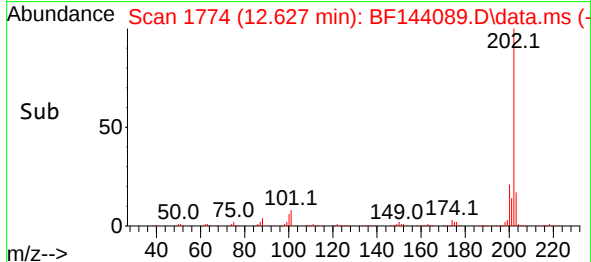
Instrument :
BNA_F
ClientSampleId :
TP-6DL



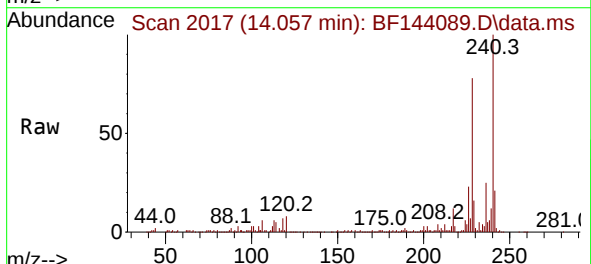
Tgt Ion:202 Resp: 398344
Ion Ratio Lower Upper
202 100
101 7.7 0.0 27.7
203 17.5 0.0 37.3

Manual Integrations
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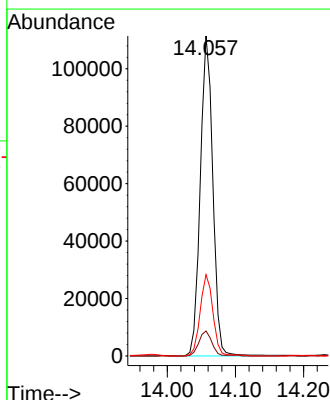
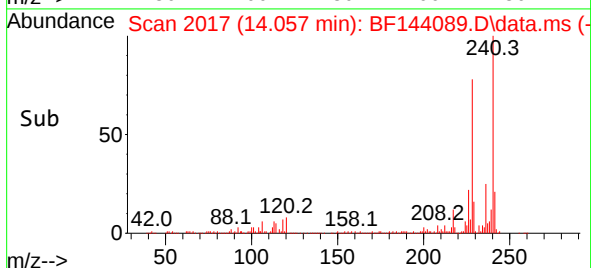
Reviewed By :Rahul Chavli 10/28/2025
Supervised By :mohammad ahmed 10/30/2025

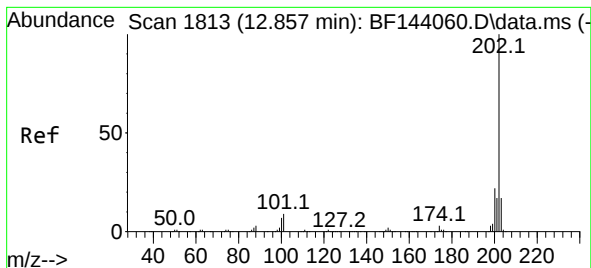


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.057 min Scan# 2017
Delta R.T. 0.000 min
Lab File: BF144089.D
Acq: 27 Oct 2025 18:03



Tgt Ion:240 Resp: 142231
Ion Ratio Lower Upper
240 100
120 7.8 6.5 9.7
236 25.4 20.1 30.1





#78

Pyrene

Concen: 29.738 ng

RT: 12.857 min Scan# 1813

Delta R.T. 0.000 min

Lab File: BF144089.D

Acq: 27 Oct 2025 18:03

Instrument :

BNA_F

ClientSampleId :

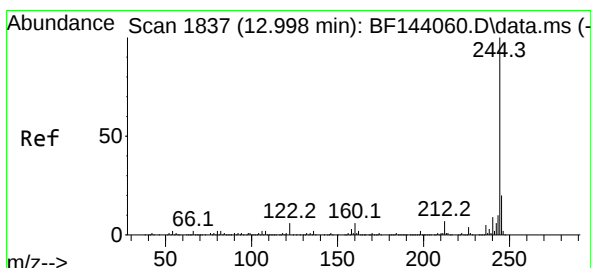
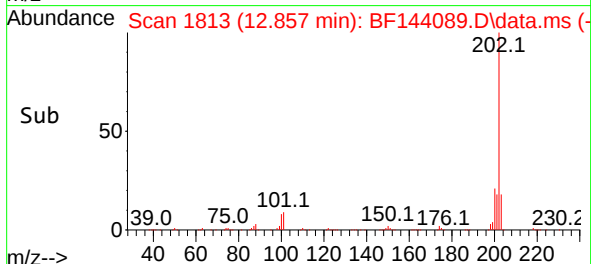
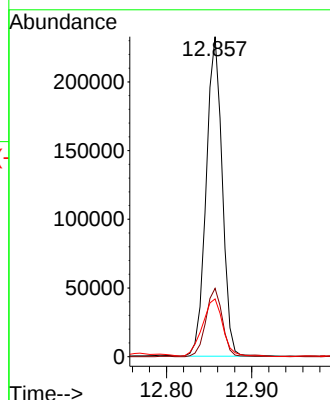
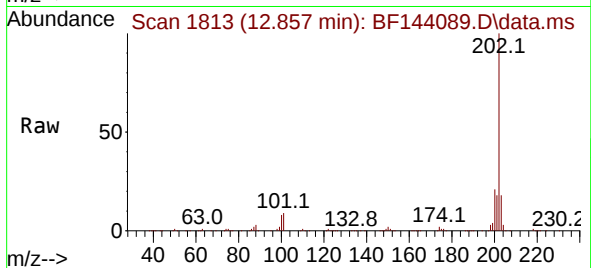
TP-6DL

Tgt Ion:202 Resp: 304086
 Ion Ratio Lower Upper
 202 100
 200 21.4 17.2 25.8
 203 18.1 13.5 20.3

Manual Integrations

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Reviewed By :Rahul Chavli 10/28/2025
 Supervised By :mohammad ahmed 10/30/2025



#79

Terphenyl-d14

Concen: 7.872 ng

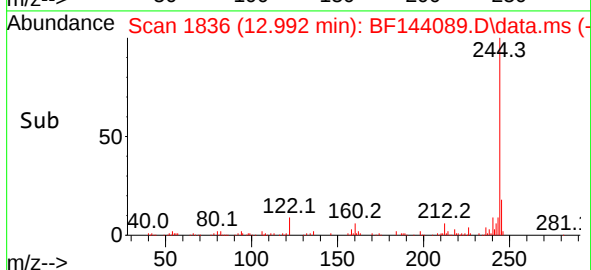
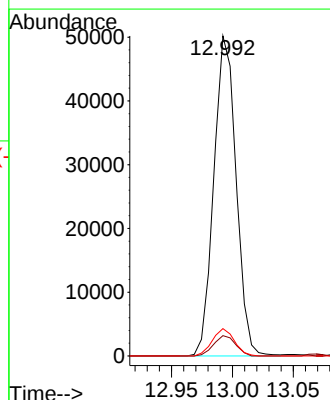
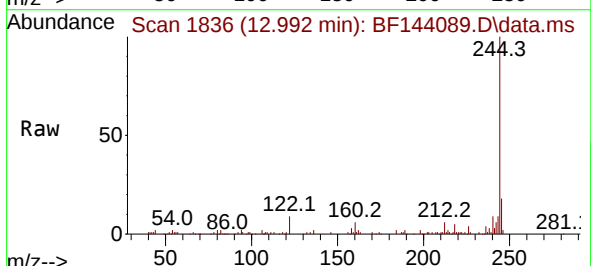
RT: 12.992 min Scan# 1836

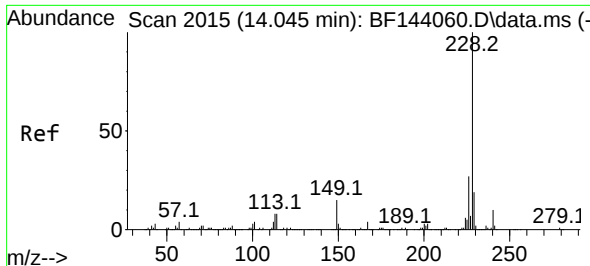
Delta R.T. -0.006 min

Lab File: BF144089.D

Acq: 27 Oct 2025 18:03

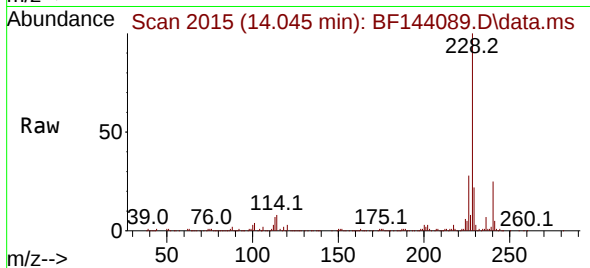
Tgt Ion:244 Resp: 64046
 Ion Ratio Lower Upper
 244 100
 212 6.4 5.8 8.6
 122 8.5 4.9 7.3#





#81
Benzo(a)anthracene
Concen: 21.237 ng
RT: 14.045 min Scan# 2015
Delta R.T. 0.000 min
Lab File: BF144089.D
Acq: 27 Oct 2025 18:03

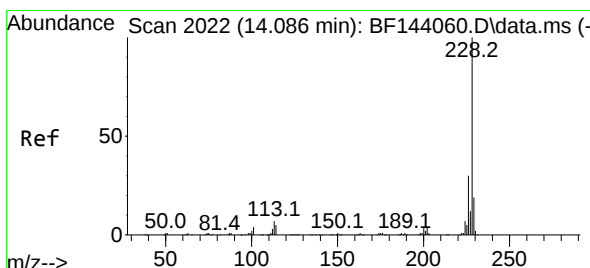
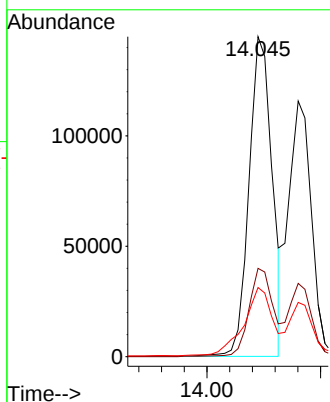
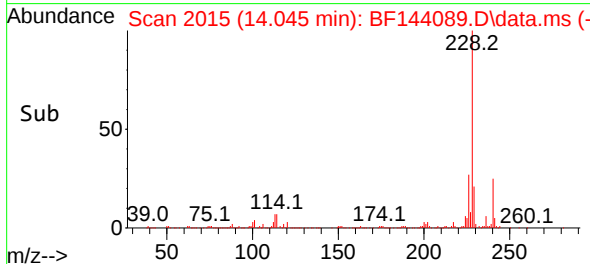
Instrument :
BNA_F
ClientSampleId :
TP-6DL



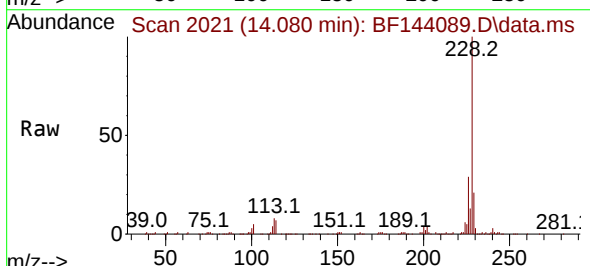
Tgt Ion:228 Resp: 20413
Ion Ratio Lower Upper
228 100
226 27.6 21.4 32.2
229 21.6 15.3 22.9

Manual Integrations
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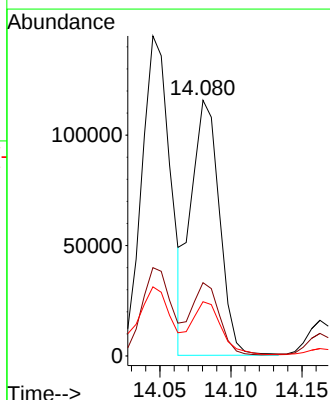
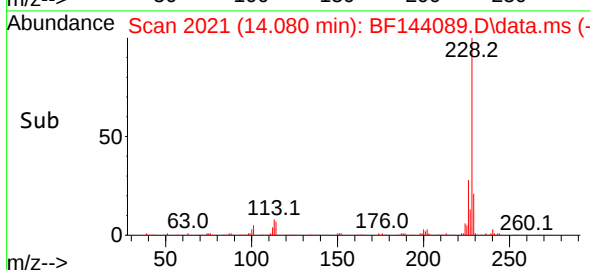
Reviewed By :Rahul Chavli 10/28/2025
Supervised By :mohammad ahmed 10/30/2025

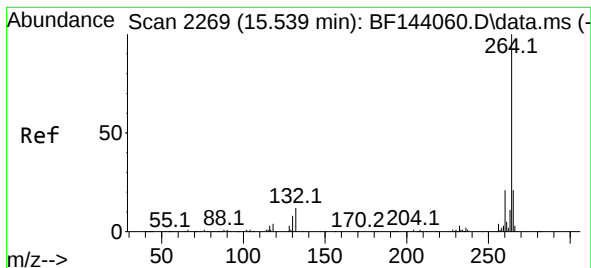


#83
Chrysene
Concen: 17.846 ng
RT: 14.080 min Scan# 2021
Delta R.T. -0.006 min
Lab File: BF144089.D
Acq: 27 Oct 2025 18:03



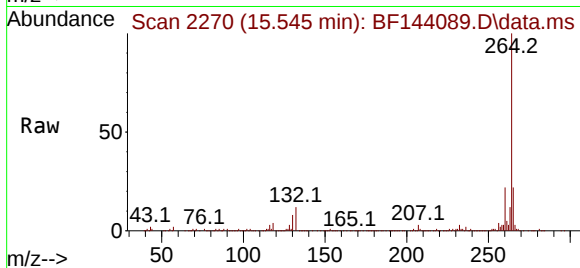
Tgt Ion:228 Resp: 160971
Ion Ratio Lower Upper
228 100
226 28.7 23.8 35.6
229 21.2 15.6 23.4





#86
Perylene-d12
Concen: 20.000 ng
RT: 15.545 min Scan# 21
Delta R.T. 0.006 min
Lab File: BF144089.D
Acq: 27 Oct 2025 18:03

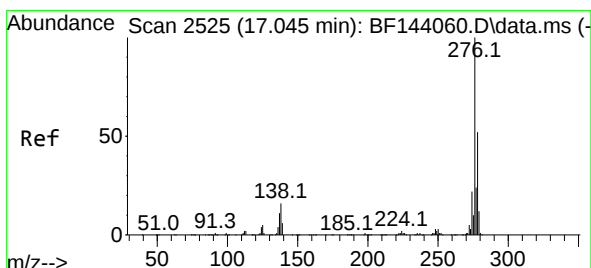
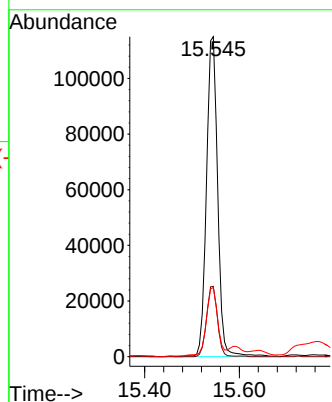
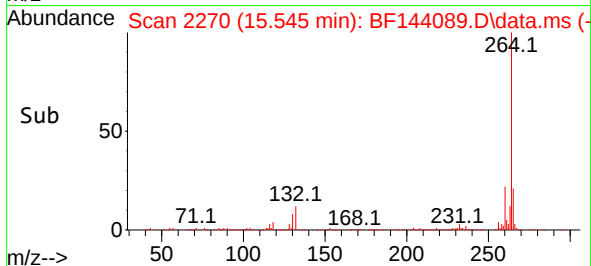
Instrument :
BNA_F
ClientSampleId :
TP-6DL



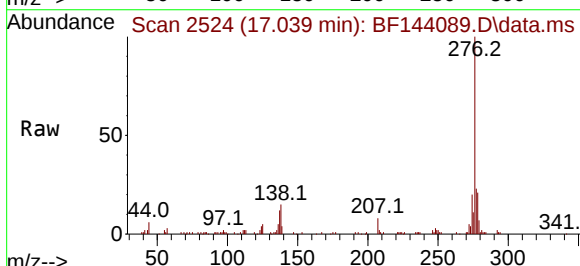
Tgt Ion:264 Resp: 18888
Ion Ratio Lower Upper
264 100
260 22.0 17.0 25.4
265 21.6 16.6 24.8

Manual Integrations
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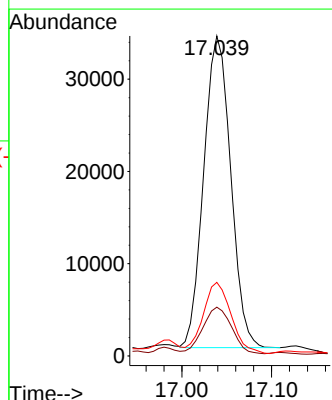
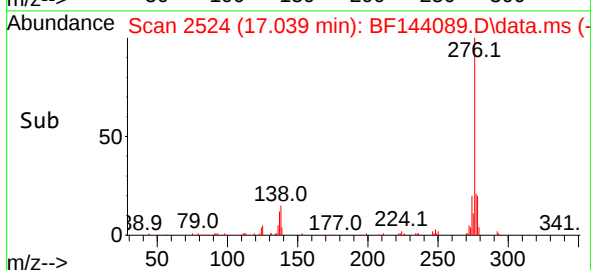
Reviewed By :Rahul Chavli 10/28/2025
Supervised By :mohammad ahmed 10/30/2025

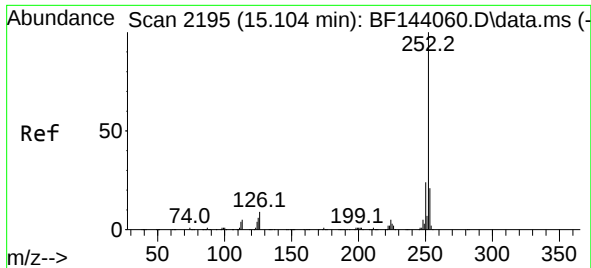


#87
Indeno(1,2,3-cd)pyrene
Concen: 5.445 ng
RT: 17.039 min Scan# 2524
Delta R.T. -0.006 min
Lab File: BF144089.D
Acq: 27 Oct 2025 18:03



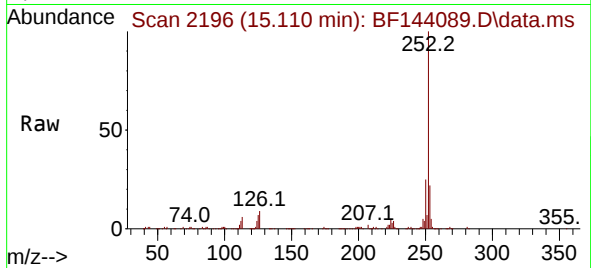
Tgt Ion:276 Resp: 70606
Ion Ratio Lower Upper
276 100
138 16.6 13.0 19.6
277 23.6 19.4 29.0





#88
Benzo(b)fluoranthene
Concen: 19.386 ng m
RT: 15.110 min Scan# 2195
Delta R.T. 0.006 min
Lab File: BF144089.D
Acq: 27 Oct 2025 18:03

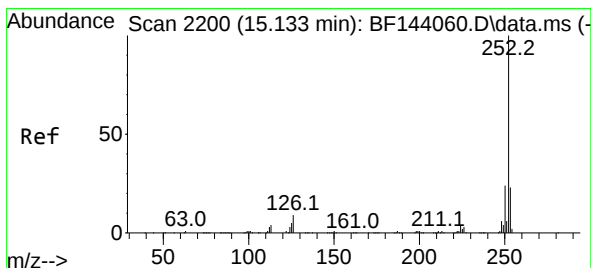
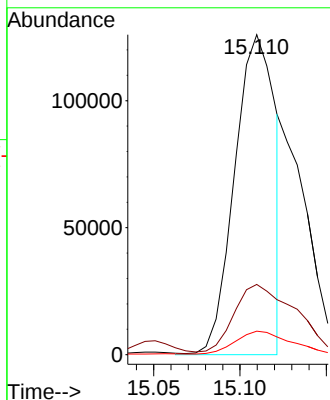
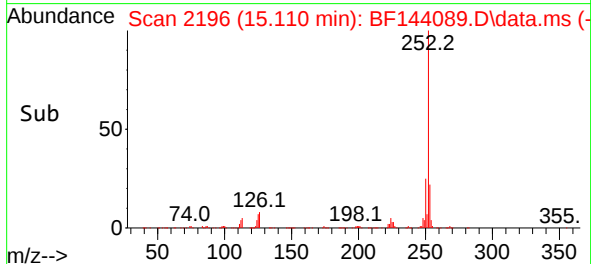
Instrument :
BNA_F
ClientSampleId :
TP-6DL



Tgt Ion:252 Resp: 207000
Ion Ratio Lower Upper
252 100
253 21.9 17.2 25.8
125 7.4 5.0 7.6

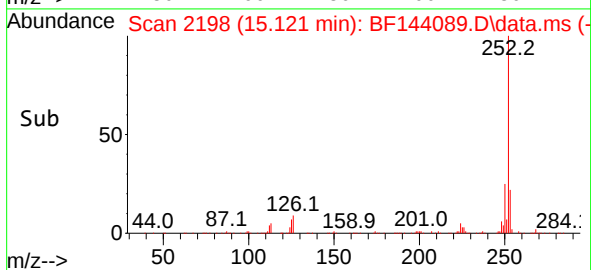
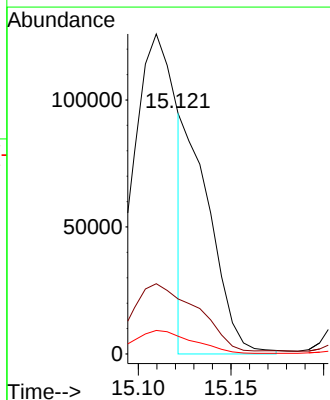
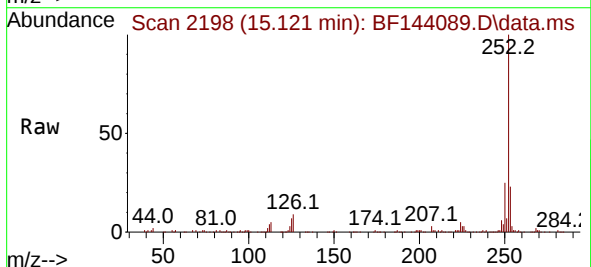
Manual Integrations
APPROVED

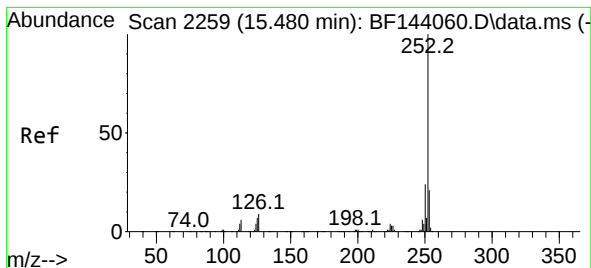
Reviewed By :Rahul Chavli 10/28/2025
Supervised By :mohammad ahmed 10/30/2025



#89
Benzo(k)fluoranthene
Concen: 9.542 ng m
RT: 15.121 min Scan# 2198
Delta R.T. -0.012 min
Lab File: BF144089.D
Acq: 27 Oct 2025 18:03

Tgt Ion:252 Resp: 94012
Ion Ratio Lower Upper
252 100
253 22.8 17.4 26.2
125 7.4 4.9 7.3#





#90

Benzo(a)pyrene

Concen: 16.043 ng

RT: 15.480 min Scan# 21

Delta R.T. 0.000 min

Lab File: BF144089.D

Acq: 27 Oct 2025 18:03

Instrument :

BNA_F

ClientSampleId :

TP-6DL

Tgt Ion:252 Resp: 15368

Ion Ratio Lower Upper

252 100

253 23.2 17.1 25.7

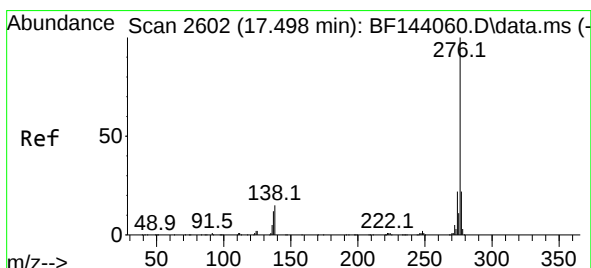
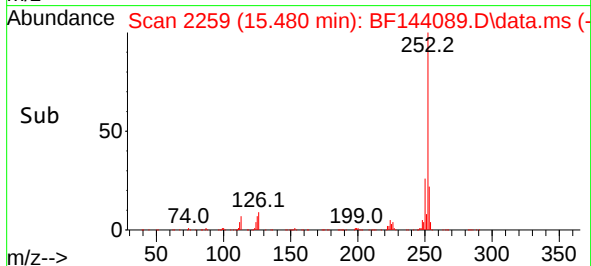
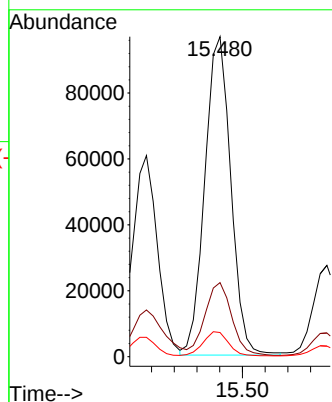
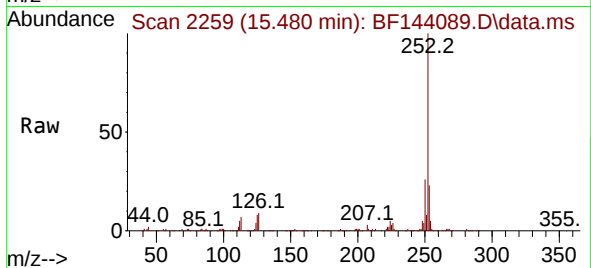
125 7.5 5.4 8.2

Manual Integrations

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Reviewed By :Rahul Chavli 10/28/2025

Supervised By :mohammad ahmed 10/30/2025



#92

Benzo(g,h,i)perylene

Concen: 5.152 ng

RT: 17.492 min Scan# 2601

Delta R.T. -0.006 min

Lab File: BF144089.D

Acq: 27 Oct 2025 18:03

Tgt Ion:276 Resp: 53170

Ion Ratio Lower Upper

276 100

277 27.5 17.9 26.9#

138 14.5 12.0 18.0

