

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF060225\
 Data File : BF142598.D
 Acq On : 02 Jun 2025 15:34
 Operator : RC/JU
 Sample : Q2150-01DL 5X
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP-44DL

Manual Integrations
 APPROVED

Reviewed By :Rahul Chavli 06/03/2025
 Supervised By :Jagrut Upadhyay 06/03/2025

Quant Time: Jun 02 16:03:08 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue May 20 16:26:47 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.898	152	127289	20.000	ng	0.00
21) Naphthalene-d8	8.181	136	470532	20.000	ng	0.00
39) Acenaphthene-d10	9.939	164	232054	20.000	ng	0.00
64) Phenanthrene-d10	11.427	188	325882	20.000	ng	0.00
76) Chrysene-d12	14.068	240	250994	20.000	ng	# 0.00
86) Perylene-d12	15.568	264	278926	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.504	112	117955	15.612	ng	-0.01
7) Phenol-d6	6.516	99	142903	15.713	ng	-0.02
23) Nitrobenzene-d5	7.451	82	83225	9.645	ng	-0.02
42) 2,4,6-Tribromophenol	10.727	330	32201	12.503	ng	-0.01
45) 2-Fluorobiphenyl	9.251	172	184171	10.650	ng	-0.02
79) Terphenyl-d14	13.010	244	124670	6.788	ng	0.00
Target Compounds						Qvalue
58) Fluorene	10.486	166	35042	2.298	ng	98
71) Phenanthrene	11.451	178	208888	11.994	ng	100
72) Anthracene	11.504	178	91928	5.172	ng	100
75) Fluoranthene	12.639	202	373090	22.927	ng	98
78) Pyrene	12.869	202	347198	14.829	ng	98
81) Benzo(a)anthracene	14.057	228	215675	12.868	ng	94
83) Chrysene	14.092	228	187480	12.449	ng	98
87) Indeno(1,2,3-cd)pyrene	17.074	276	104960	5.012	ng	97
88) Benzo(b)fluoranthene	15.127	252	305919m	18.531	ng	
89) Benzo(k)fluoranthene	15.145	252	85656m	5.540	ng	
90) Benzo(a)pyrene	15.504	252	206792	13.289	ng	97
92) Benzo(g,h,i)perylene	17.533	276	92128	5.423	ng	99

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

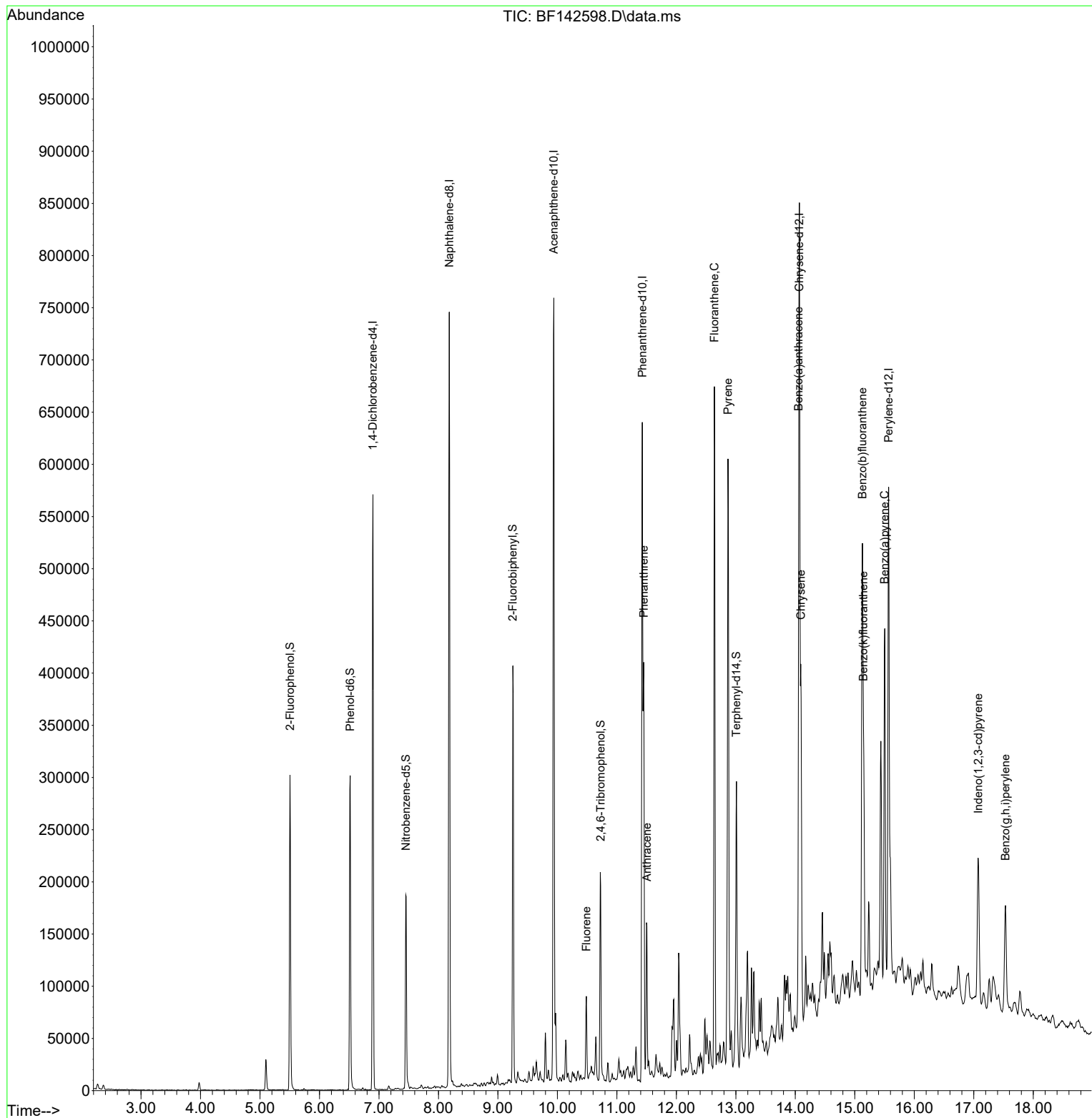
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF060225\
Data File : BF142598.D
Acq On : 02 Jun 2025 15:34
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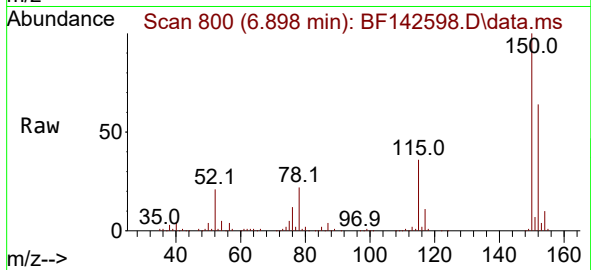
Reviewed By :Rahul Chavli 06/03/2025
Supervised By :Jagrut Upadhyay 06/03/2025





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.898 min Scan# 800
Delta R.T. -0.006 min
Lab File: BF142598.D
Acq: 02 Jun 2025 15:34

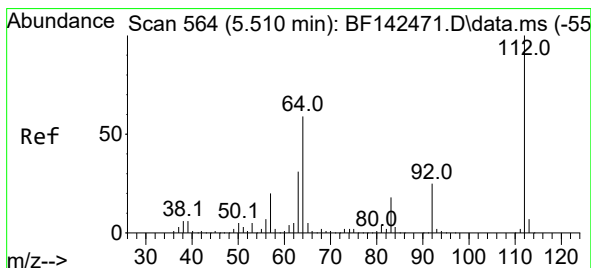
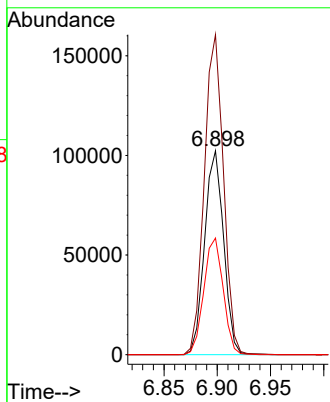
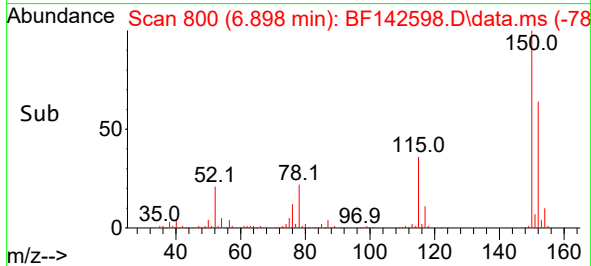
Instrument :
BNA_F
ClientSampleId :
TP-44DL



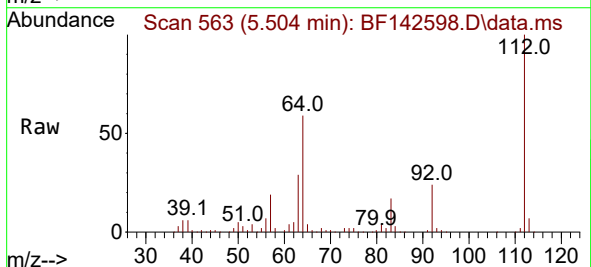
Tgt Ion:152 Resp: 127289
Ion Ratio Lower Upper
152 100
150 156.9 128.2 192.4
115 57.2 48.3 72.5

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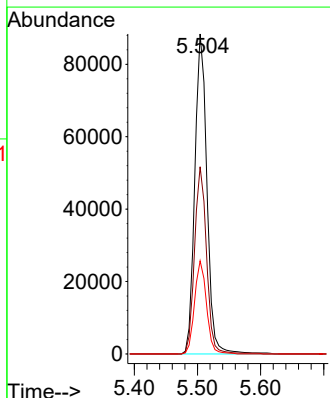
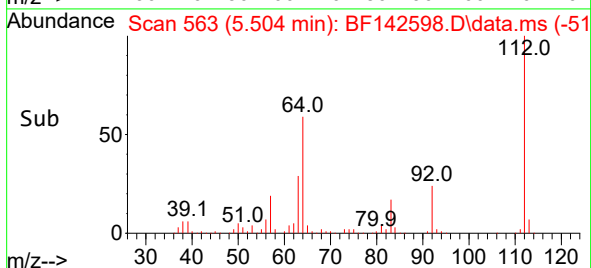
Reviewed By :Rahul Chavli 06/03/2025
Supervised By :Jagrut Upadhyay 06/03/2025

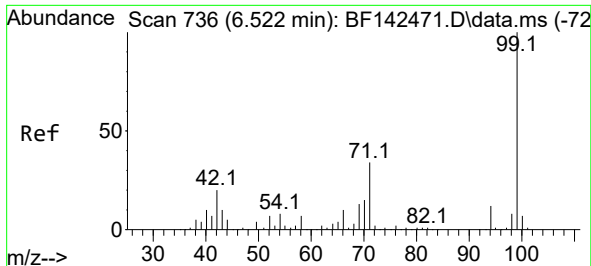


#5
2-Fluorophenol
Concen: 15.612 ng
RT: 5.504 min Scan# 563
Delta R.T. -0.012 min
Lab File: BF142598.D
Acq: 02 Jun 2025 15:34



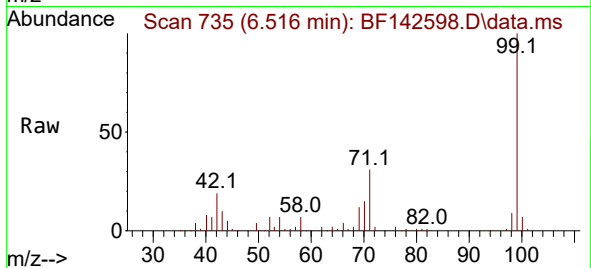
Tgt Ion:112 Resp: 117955
Ion Ratio Lower Upper
112 100
64 58.5 47.5 71.3
63 29.1 24.9 37.3





#7
Phenol-d6
Concen: 15.713 ng
RT: 6.516 min Scan# 71
Delta R.T. -0.018 min
Lab File: BF142598.D
Acq: 02 Jun 2025 15:34

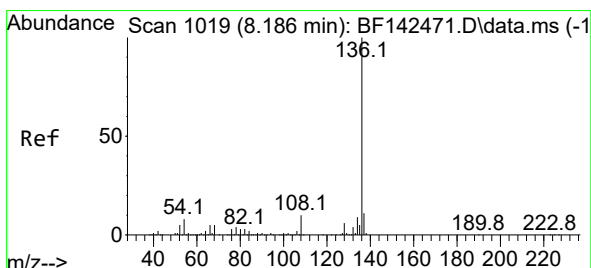
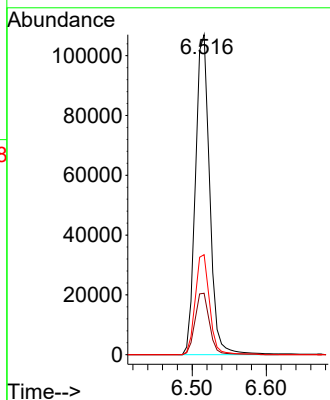
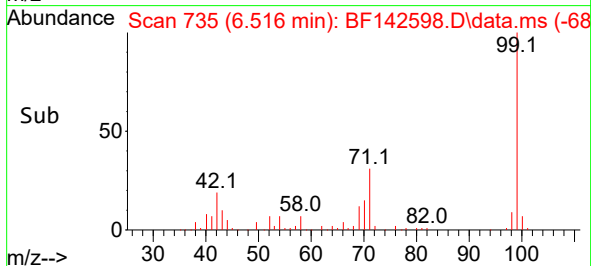
Instrument :
BNA_F
ClientSampleId :
TP-44DL



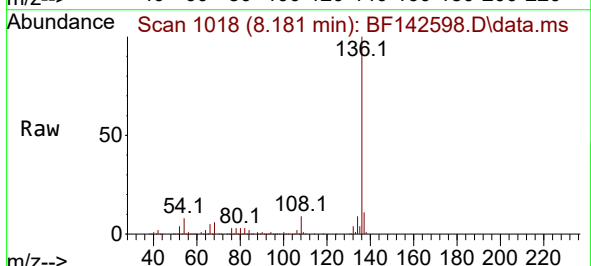
Tgt Ion: 99 Resp: 14290
Ion Ratio Lower Upper
99 100
42 19.2 16.2 24.2
71 31.2 27.3 40.9

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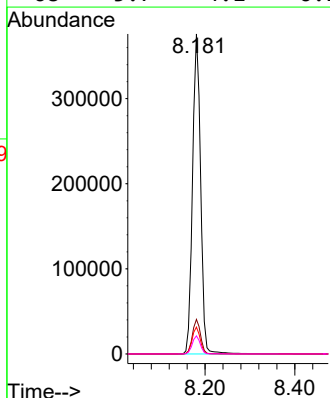
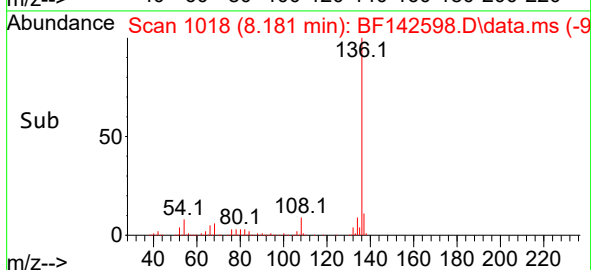
Reviewed By :Rahul Chavli 06/03/2025
Supervised By :Jagrut Upadhyay 06/03/2025

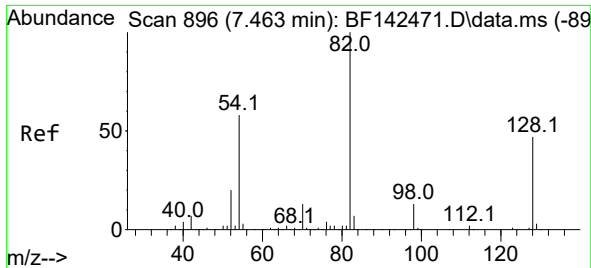


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.181 min Scan# 1018
Delta R.T. -0.006 min
Lab File: BF142598.D
Acq: 02 Jun 2025 15:34



Tgt Ion:136 Resp: 470532
Ion Ratio Lower Upper
136 100
137 10.8 8.6 13.0
54 8.4 6.6 10.0
68 5.7 4.1 6.1





#23

Nitrobenzene-d5

Concen: 9.645 ng

RT: 7.451 min Scan# 89

Delta R.T. -0.023 min

Lab File: BF142598.D

Acq: 02 Jun 2025 15:34

Instrument :

BNA_F

ClientSampleId :

TP-44DL

Tgt Ion: 82 Resp: 83225

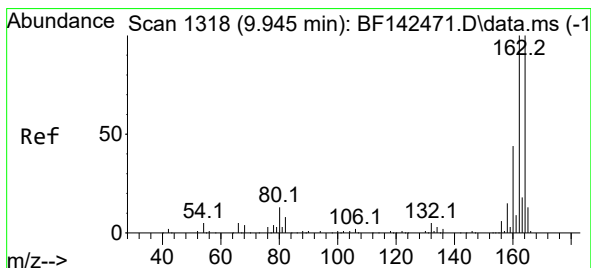
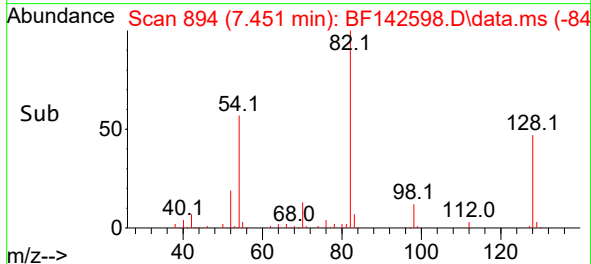
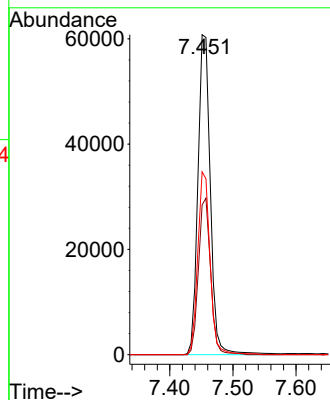
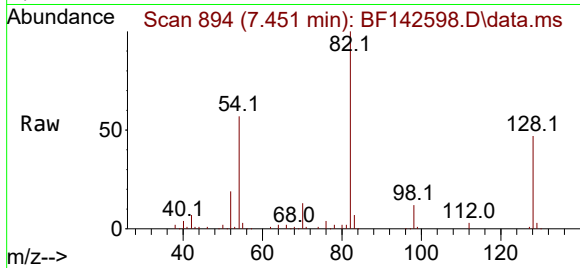
Ion	Ratio	Lower	Upper
82	100		
128	46.8	37.4	56.2
54	57.2	46.6	70.0

Manual Integrations

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#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.939 min Scan# 1317

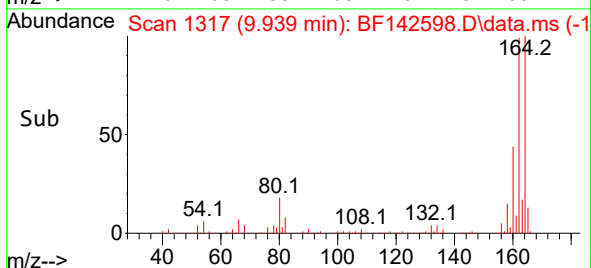
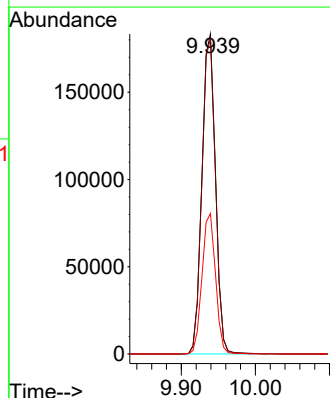
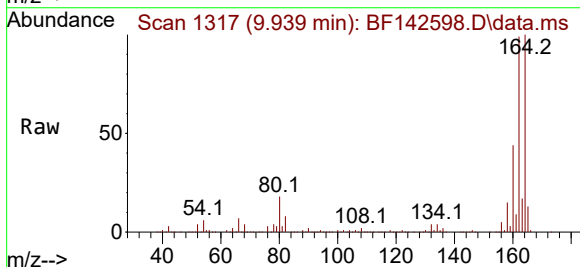
Delta R.T. -0.006 min

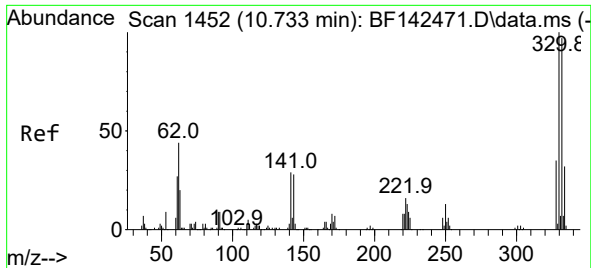
Lab File: BF142598.D

Acq: 02 Jun 2025 15:34

Tgt Ion:164 Resp: 232054

Ion	Ratio	Lower	Upper
164	100		
162	98.5	80.2	120.4
160	43.9	35.6	53.4





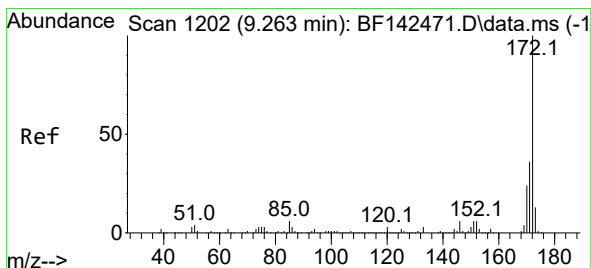
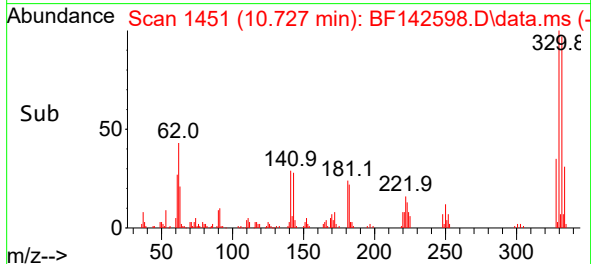
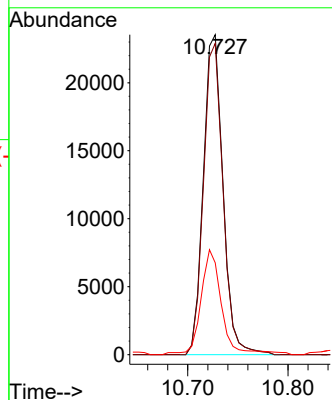
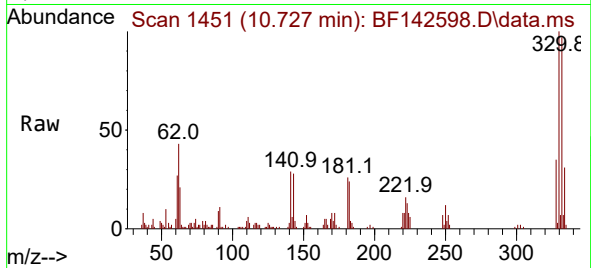
#42
2,4,6-Tribromophenol
Concen: 12.503 ng
RT: 10.727 min Scan# 1452
Delta R.T. -0.012 min
Lab File: BF142598.D
Acq: 02 Jun 2025 15:34

Instrument :
BNA_F
ClientSampleId :
TP-44DL

Tgt Ion: 330 Resp: 3220
Ion Ratio Lower Upper
330 100
332 96.5 77.6 116.4
141 34.6 24.6 36.8

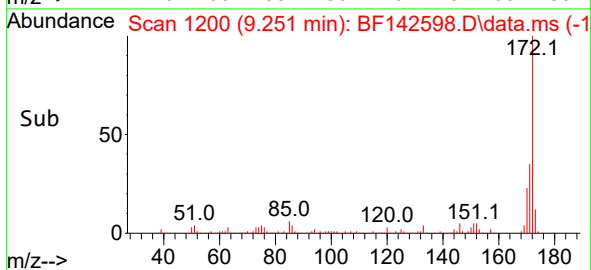
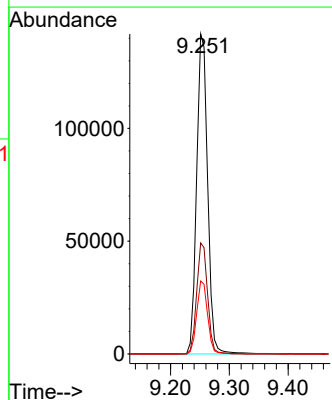
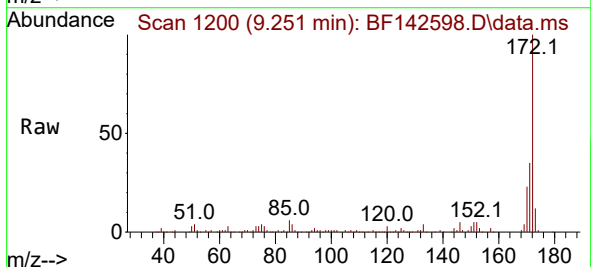
Manual Integrations
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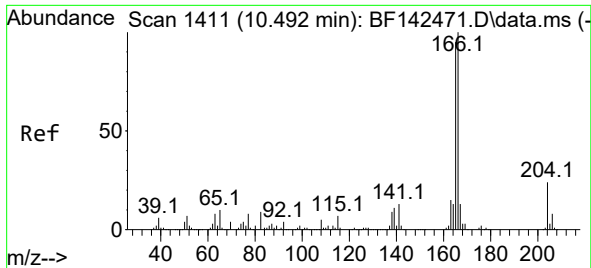
Reviewed By :Rahul Chavli 06/03/2025
Supervised By :Jagrut Upadhyay 06/03/2025



#45
2-Fluorobiphenyl
Concen: 10.650 ng
RT: 9.251 min Scan# 1200
Delta R.T. -0.018 min
Lab File: BF142598.D
Acq: 02 Jun 2025 15:34

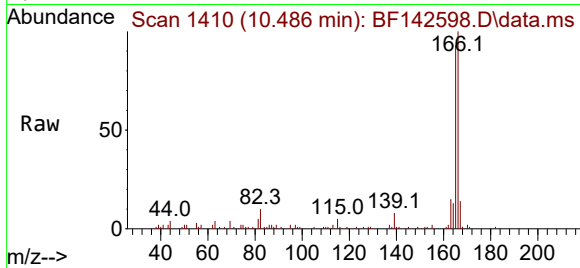
Tgt Ion: 172 Resp: 184171
Ion Ratio Lower Upper
172 100
171 34.7 28.6 42.8
170 22.8 18.9 28.3





#58
Fluorene
Concen: 2.298 ng
RT: 10.486 min Scan# 1411
Delta R.T. -0.012 min
Lab File: BF142598.D
Acq: 02 Jun 2025 15:34

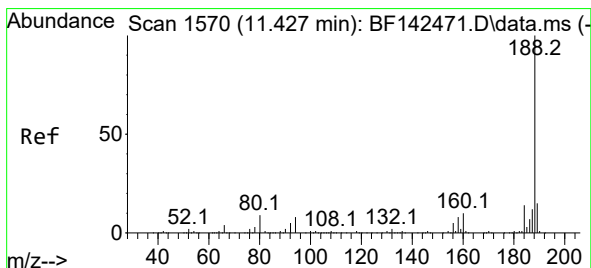
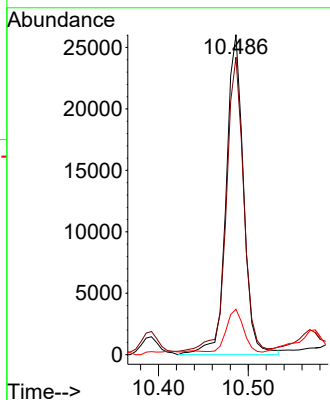
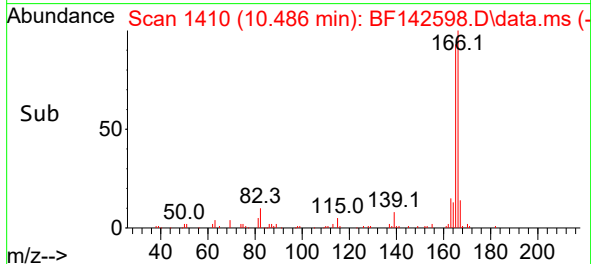
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BNA_F
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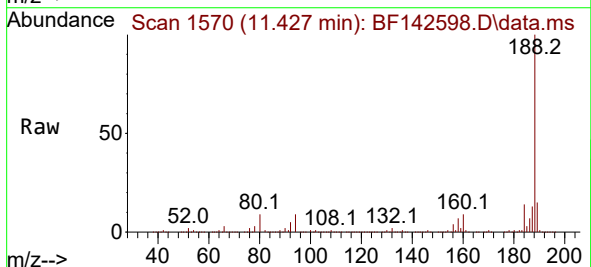
Tgt Ion:166 Resp: 3504
Ion Ratio Lower Upper
166 100
165 93.0 75.8 113.8
167 14.2 10.6 16.0

Manual Integrations
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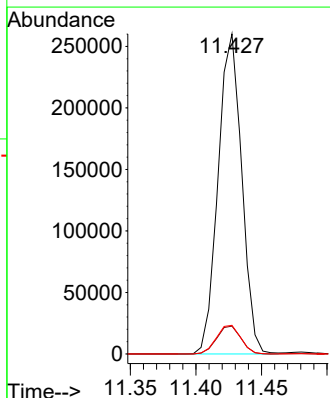
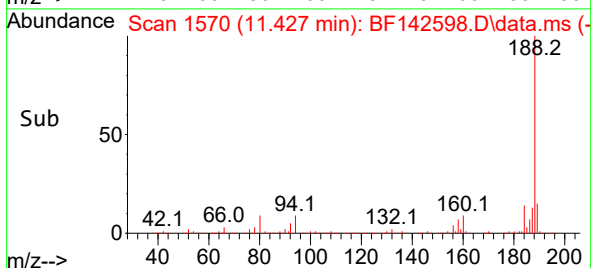
Reviewed By :Rahul Chavli 06/03/2025
Supervised By :Jagrut Upadhyay 06/03/2025

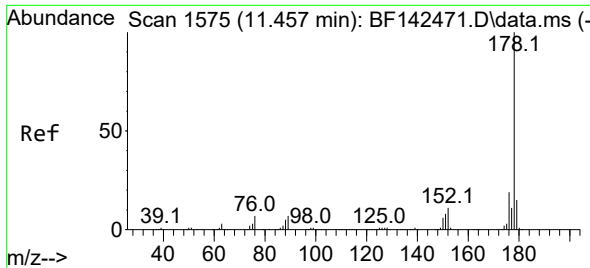


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.427 min Scan# 1570
Delta R.T. -0.006 min
Lab File: BF142598.D
Acq: 02 Jun 2025 15:34



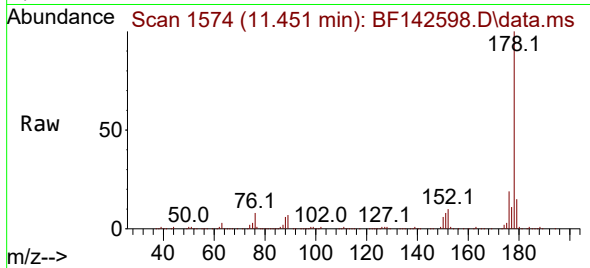
Tgt Ion:188 Resp: 325882
Ion Ratio Lower Upper
188 100
94 8.7 6.6 10.0
80 8.9 7.4 11.0





#71
Phenanthrene
Concen: 11.994 ng
RT: 11.451 min Scan# 1574
Delta R.T. -0.006 min
Lab File: BF142598.D
Acq: 02 Jun 2025 15:34

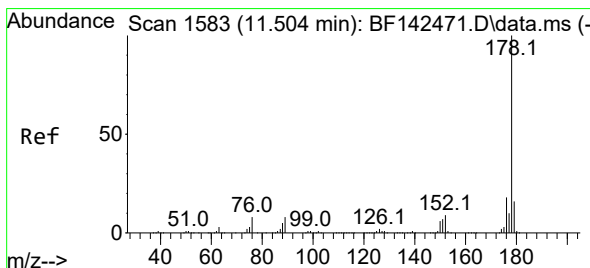
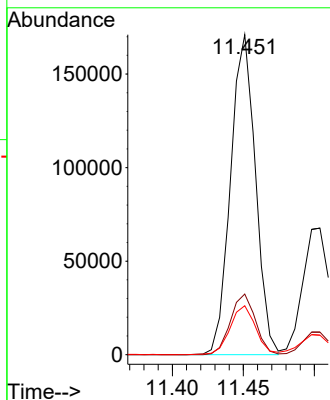
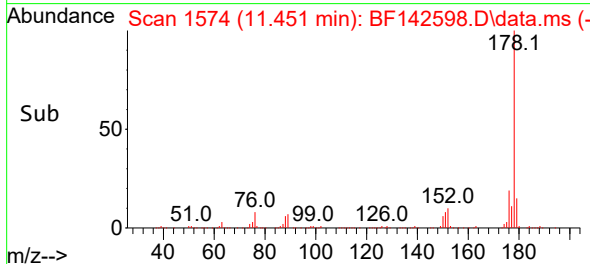
Instrument :
BNA_F
ClientSampleId :
TP-44DL



Tgt Ion:178 Resp: 20888
Ion Ratio Lower Upper
178 100
176 18.9 15.4 23.0
179 15.3 12.3 18.5

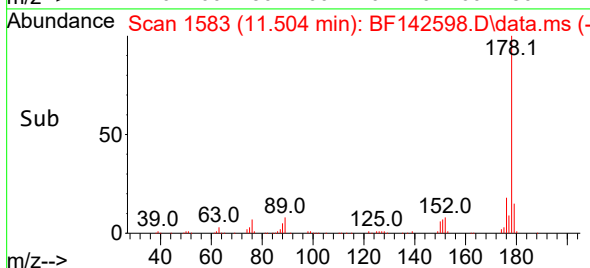
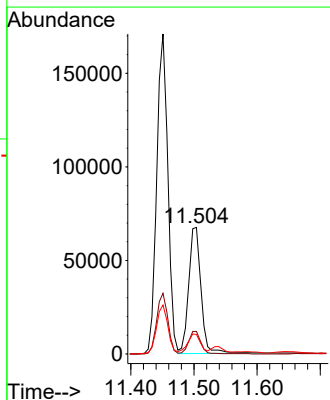
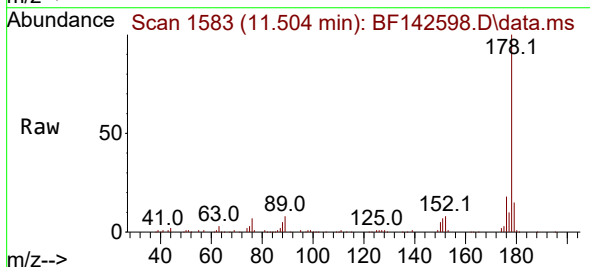
Manual Integrations
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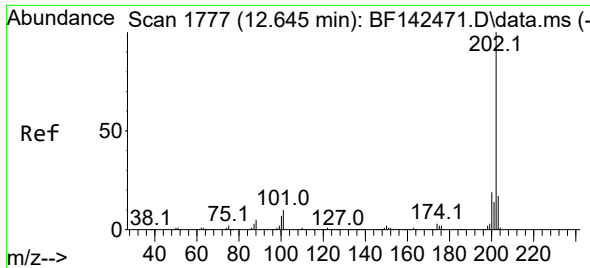
Reviewed By :Rahul Chavli 06/03/2025
Supervised By :Jagrut Upadhyay 06/03/2025



#72
Anthracene
Concen: 5.172 ng
RT: 11.504 min Scan# 1583
Delta R.T. -0.006 min
Lab File: BF142598.D
Acq: 02 Jun 2025 15:34

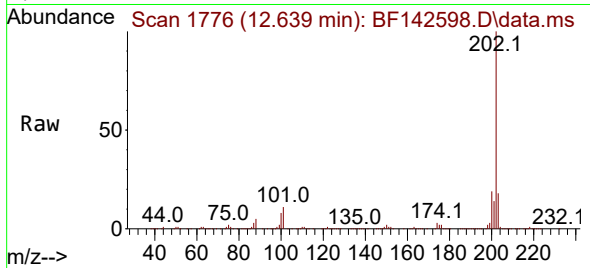
Tgt Ion:178 Resp: 91928
Ion Ratio Lower Upper
178 100
176 17.9 14.6 21.8
179 15.4 12.4 18.6





#75
Fluoranthene
Concen: 22.927 ng
RT: 12.639 min Scan# 1776
Delta R.T. -0.006 min
Lab File: BF142598.D
Acq: 02 Jun 2025 15:34

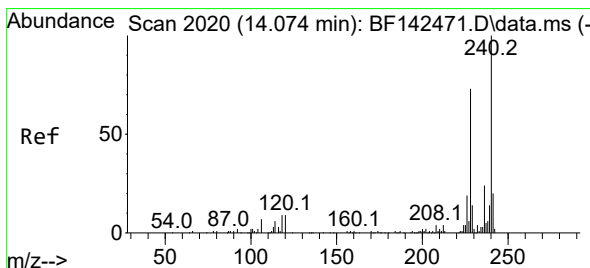
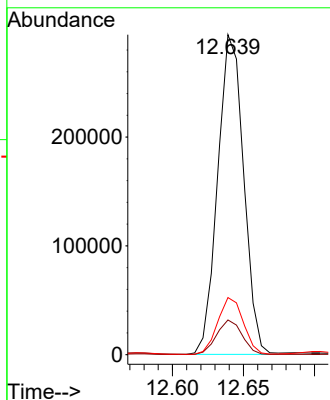
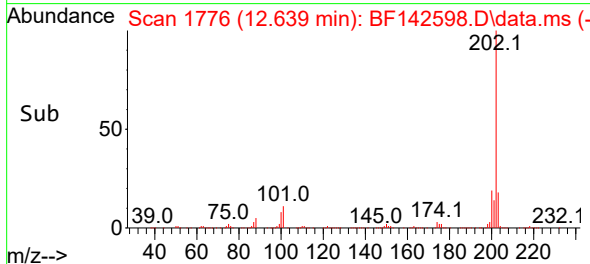
Instrument :
BNA_F
ClientSampleId :
TP-44DL



Tgt Ion:202 Resp: 373090
Ion Ratio Lower Upper
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101 10.9 0.0 29.6
203 17.8 0.0 37.2

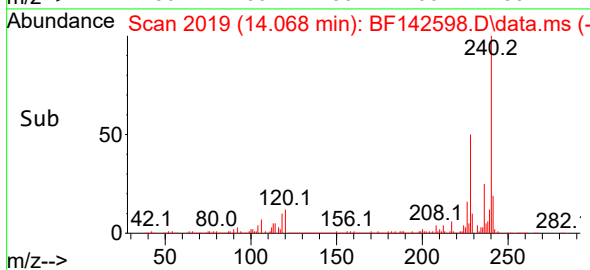
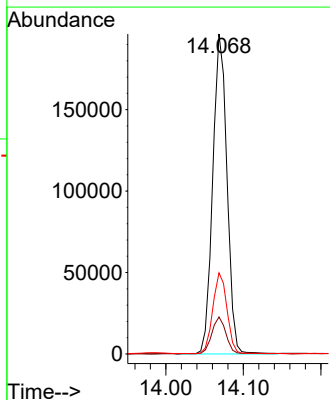
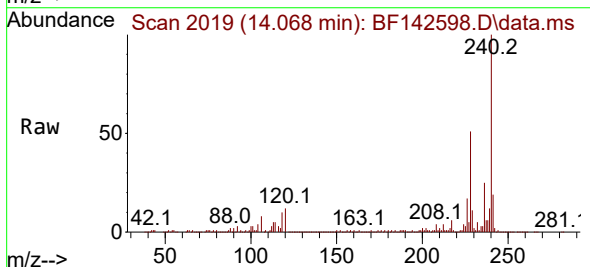
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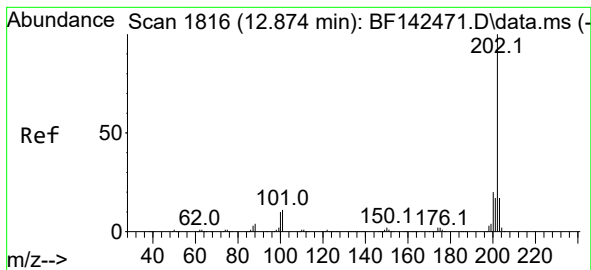
Reviewed By :Rahul Chavli 06/03/2025
Supervised By :Jagrut Upadhyay 06/03/2025



#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.068 min Scan# 2019
Delta R.T. -0.006 min
Lab File: BF142598.D
Acq: 02 Jun 2025 15:34

Tgt Ion:240 Resp: 250994
Ion Ratio Lower Upper
240 100
120 11.6 7.5 11.3#
236 25.4 19.6 29.4





#78

Pyrene

Concen: 14.829 ng

RT: 12.869 min Scan# 1815

Delta R.T. -0.006 min

Lab File: BF142598.D

Acq: 02 Jun 2025 15:34

Instrument :

BNA_F

ClientSampleId :

TP-44DL

Tgt Ion:202 Resp: 347198

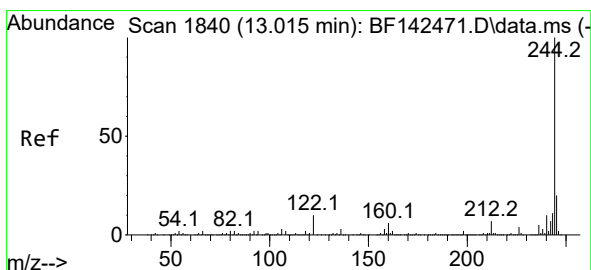
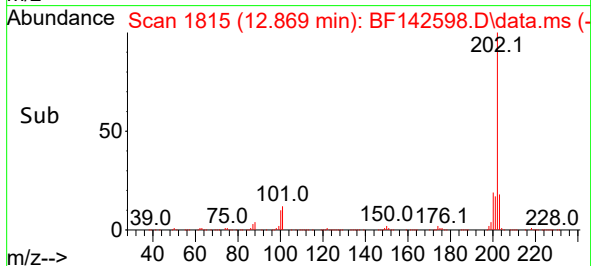
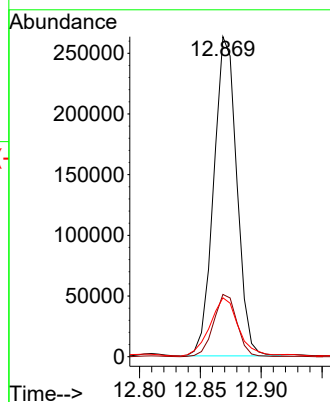
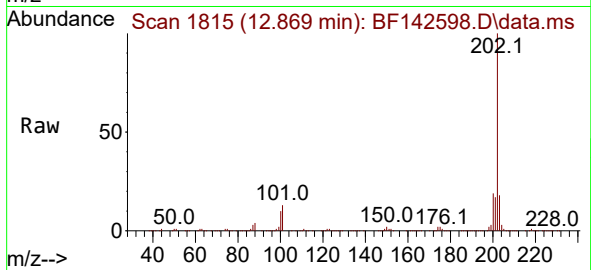
Ion	Ratio	Lower	Upper
202	100		
200	19.5	16.1	24.1
203	18.4	13.9	20.9

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 06/03/2025

Supervised By :Jagrut Upadhyay 06/03/2025



#79

Terphenyl-d14

Concen: 6.788 ng

RT: 13.010 min Scan# 1839

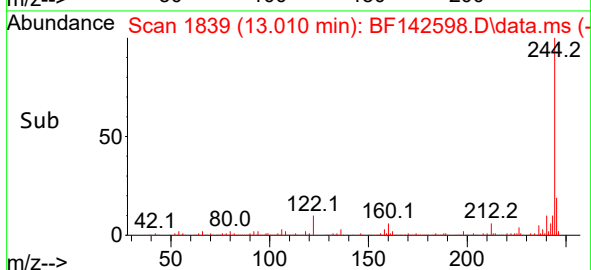
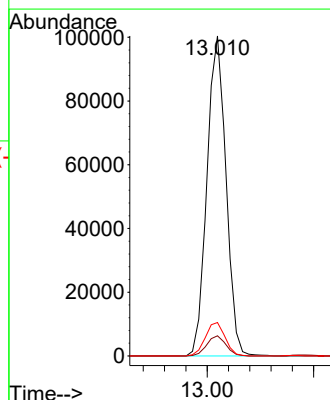
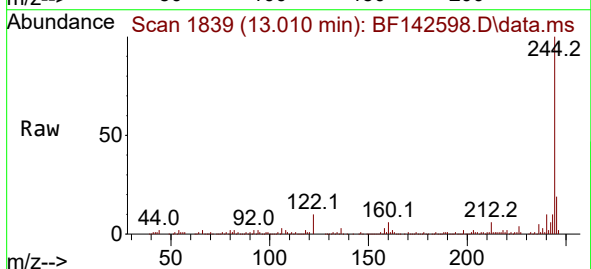
Delta R.T. -0.006 min

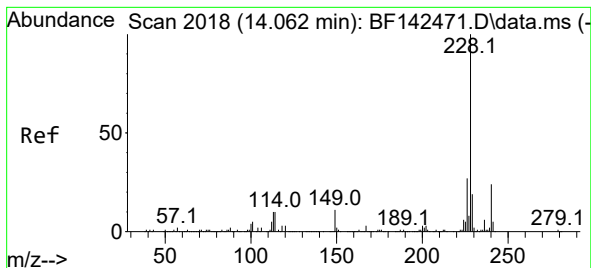
Lab File: BF142598.D

Acq: 02 Jun 2025 15:34

Tgt Ion:244 Resp: 124670

Ion	Ratio	Lower	Upper
244	100		
212	6.3	5.3	7.9
122	10.4	8.2	12.2





#81

Benzo(a)anthracene

Concen: 12.868 ng

RT: 14.057 min Scan# 20

Delta R.T. -0.006 min

Lab File: BF142598.D

Acq: 02 Jun 2025 15:34

Instrument :

BNA_F

ClientSampleId :

TP-44DL

Tgt Ion:228 Resp: 215679

Ion Ratio Lower Upper

228 100

226 30.2 21.2 31.8

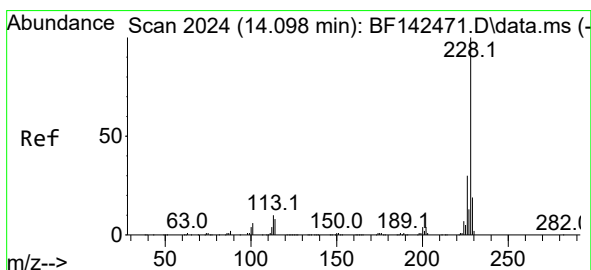
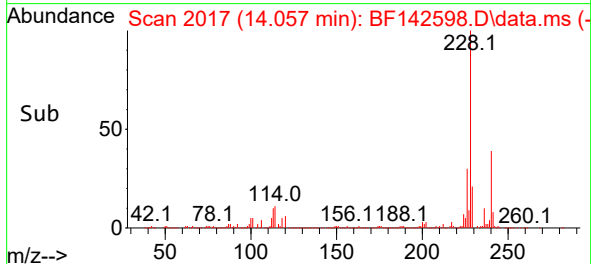
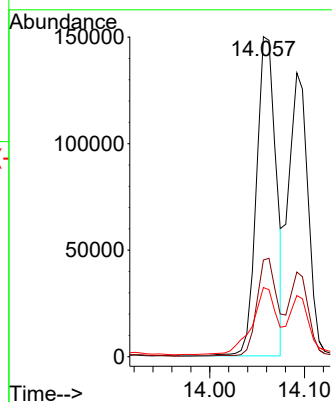
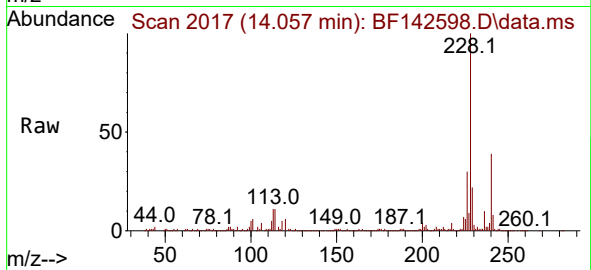
229 21.6 15.5 23.3

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 06/03/2025

Supervised By :Jagrut Upadhyay 06/03/2025



#83

Chrysene

Concen: 12.449 ng

RT: 14.092 min Scan# 2023

Delta R.T. -0.012 min

Lab File: BF142598.D

Acq: 02 Jun 2025 15:34

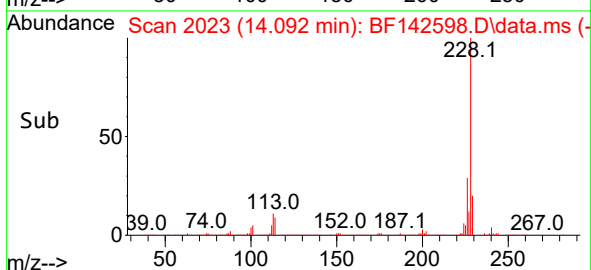
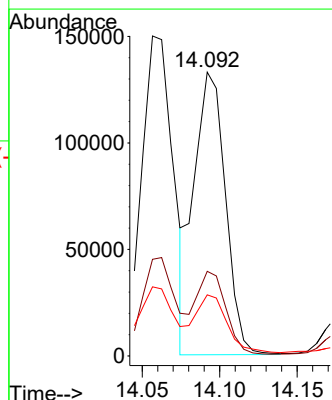
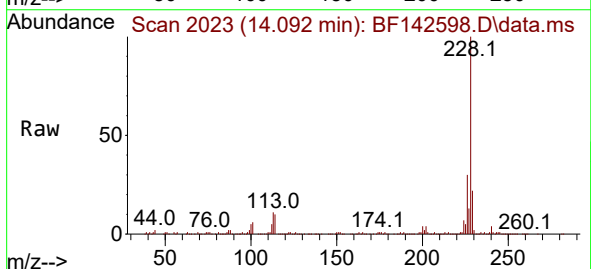
Tgt Ion:228 Resp: 187480

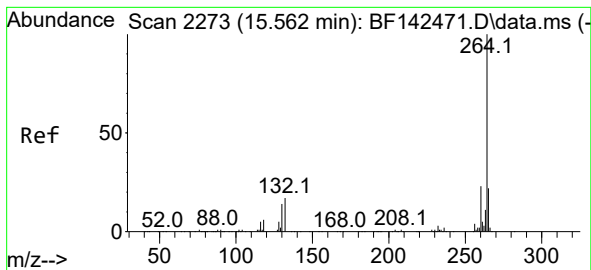
Ion Ratio Lower Upper

228 100

226 29.8 23.8 35.6

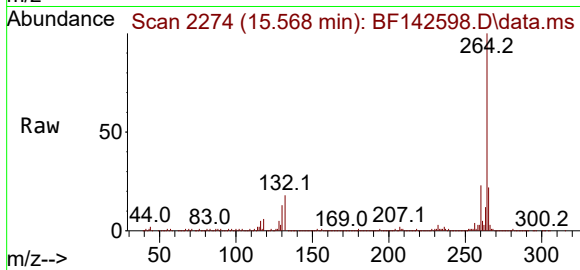
229 21.6 15.4 23.2





#86
Perylene-d12
Concen: 20.000 ng
RT: 15.568 min Scan# 21
Delta R.T. 0.000 min
Lab File: BF142598.D
Acq: 02 Jun 2025 15:34

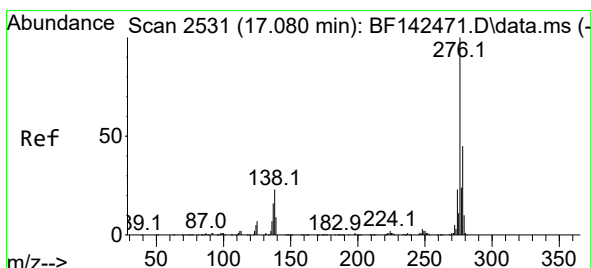
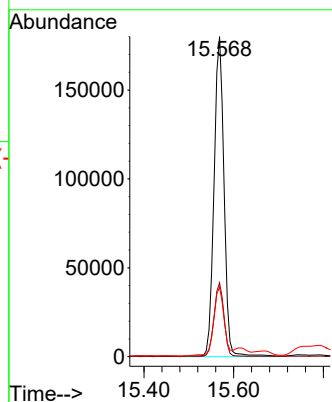
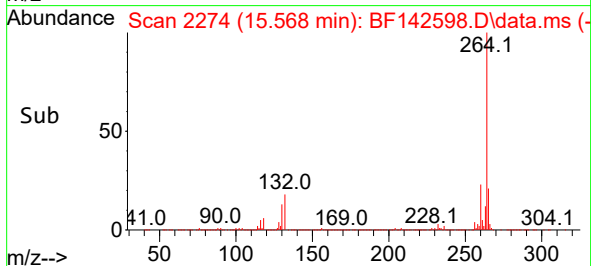
Instrument :
BNA_F
ClientSampleId :
TP-44DL



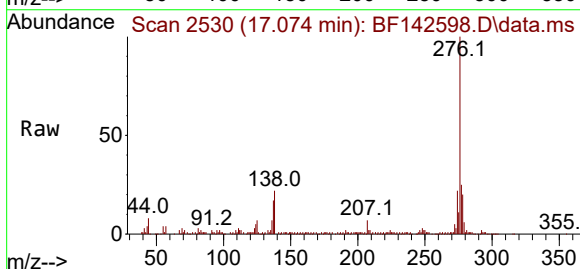
Tgt Ion:264 Resp: 278920
Ion Ratio Lower Upper
264 100
260 23.1 18.6 28.0
265 21.7 17.7 26.5

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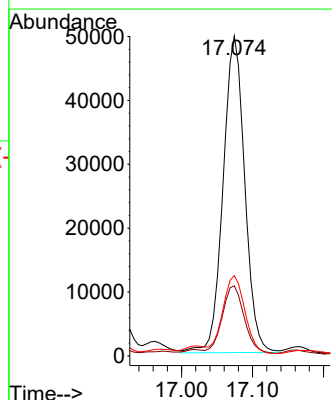
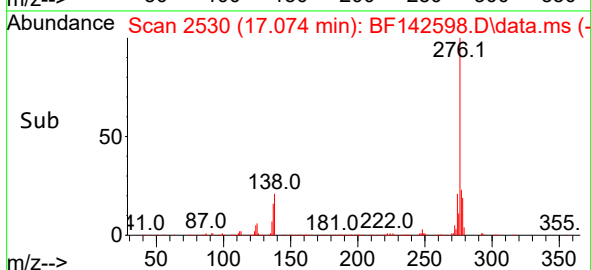
Reviewed By :Rahul Chavli 06/03/2025
Supervised By :Jagrut Upadhyay 06/03/2025

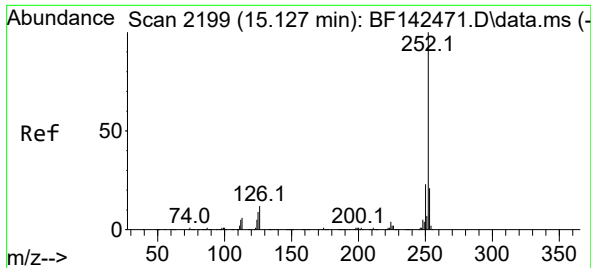


#87
Indeno(1,2,3-cd)pyrene
Concen: 5.012 ng
RT: 17.074 min Scan# 2530
Delta R.T. -0.018 min
Lab File: BF142598.D
Acq: 02 Jun 2025 15:34



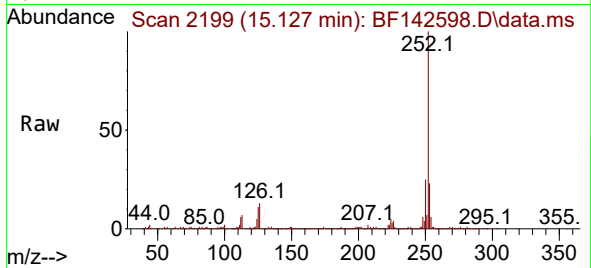
Tgt Ion:276 Resp: 104960
Ion Ratio Lower Upper
276 100
138 21.5 19.9 29.9
277 25.2 20.2 30.2





#88
Benzo(b)fluoranthene
Concen: 18.531 ng m
RT: 15.127 min Scan# 2199
Delta R.T. 0.000 min
Lab File: BF142598.D
Acq: 02 Jun 2025 15:34

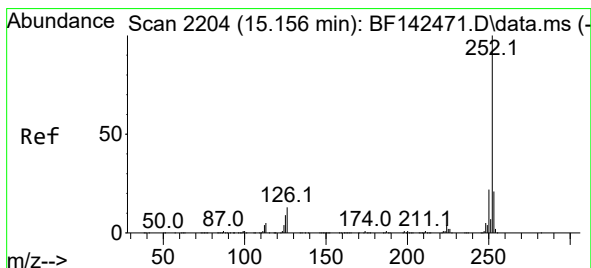
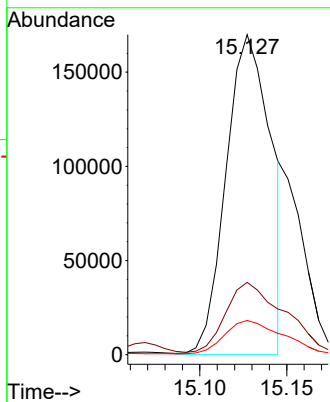
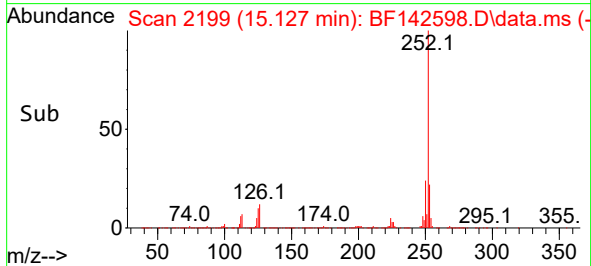
Instrument :
BNA_F
ClientSampleId :
TP-44DL



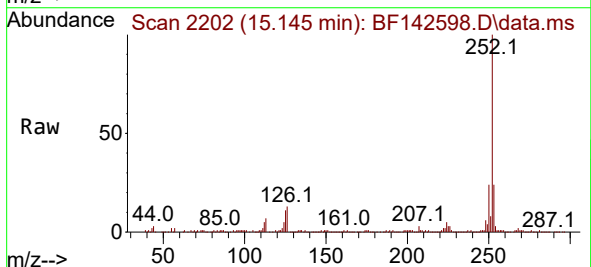
Tgt Ion:252 Resp: 305919
Ion Ratio Lower Upper
252 100
253 22.6 17.0 25.4
125 10.7 7.4 11.0

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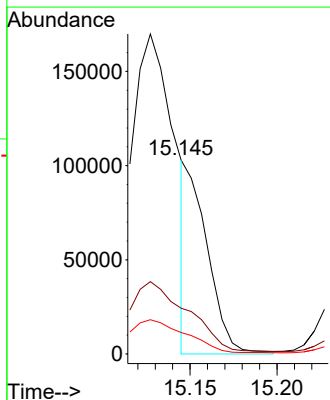
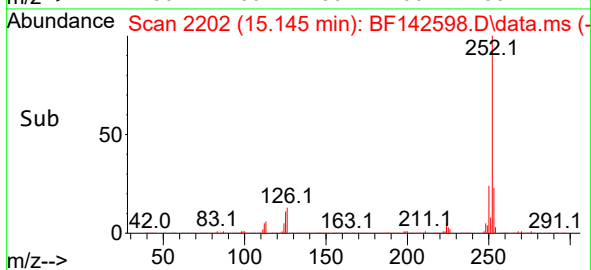
Reviewed By :Rahul Chavli 06/03/2025
Supervised By :Jagrut Upadhyay 06/03/2025

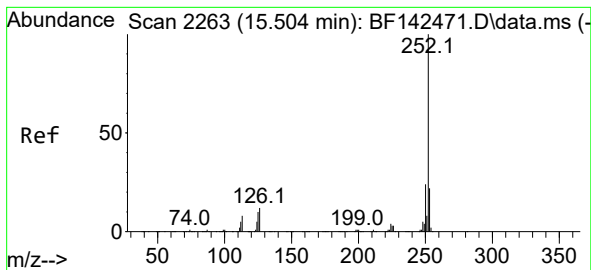


#89
Benzo(k)fluoranthene
Concen: 5.540 ng m
RT: 15.145 min Scan# 2202
Delta R.T. -0.018 min
Lab File: BF142598.D
Acq: 02 Jun 2025 15:34



Tgt Ion:252 Resp: 85656
Ion Ratio Lower Upper
252 100
253 23.6 17.0 25.4
125 11.1 7.3 10.9#





#90

Benzo(a)pyrene

Concen: 13.289 ng

RT: 15.504 min Scan# 21

Delta R.T. -0.006 min

Lab File: BF142598.D

Acq: 02 Jun 2025 15:34

Instrument :

BNA_F

ClientSampleId :

TP-44DL

Tgt Ion:252 Resp: 206792

Ion Ratio Lower Upper

252 100

253 23.0 17.4 26.0

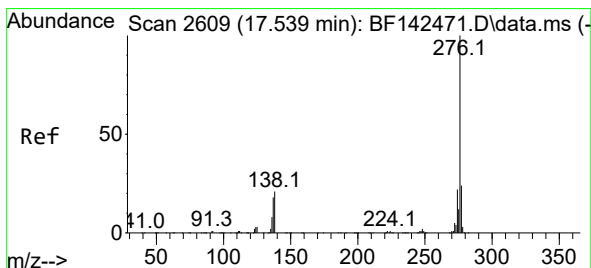
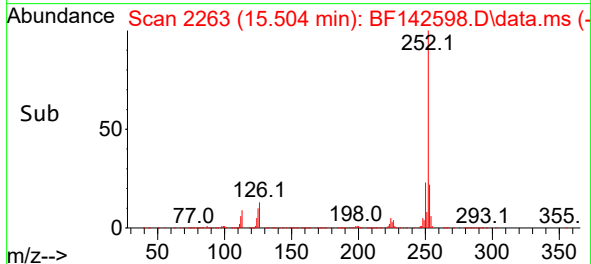
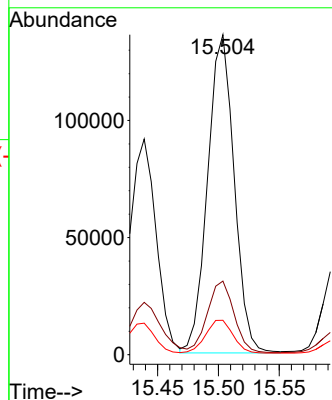
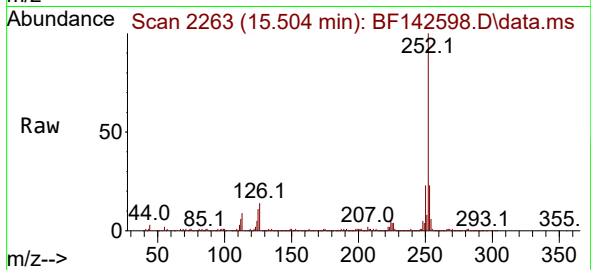
125 10.8 7.9 11.9

Manual Integrations

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Reviewed By :Rahul Chavli 06/03/2025

Supervised By :Jagrut Upadhyay 06/03/2025



#92

Benzo(g,h,i)perylene

Concen: 5.423 ng

RT: 17.533 min Scan# 2608

Delta R.T. -0.023 min

Lab File: BF142598.D

Acq: 02 Jun 2025 15:34

Tgt Ion:276 Resp: 92128

Ion Ratio Lower Upper

276 100

277 23.9 19.2 28.8

138 22.1 16.8 25.2

