

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102725\
 Data File : BF144092.D
 Acq On : 27 Oct 2025 19:32
 Operator : RC/JU
 Sample : Q3449-01 5X
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 CF-620-COMP-41

Manual Integrations
 APPROVED

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

Quant Time: Oct 28 10:41:57 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	37031	20.000	ng	0.00
21) Naphthalene-d8	8.163	136	130574	20.000	ng	0.00
39) Acenaphthene-d10	9.916	164	68733	20.000	ng	0.00
64) Phenanthrene-d10	11.410	188	121222	20.000	ng	0.00
76) Chrysene-d12	14.057	240	122054	20.000	ng	0.00
86) Perylene-d12	15.539	264	149696	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.492	112	59865	25.577	ng	0.00
7) Phenol-d6	6.504	99	63758	24.665	ng	0.00
23) Nitrobenzene-d5	7.439	82	38613	16.201	ng	0.00
42) 2,4,6-Tribromophenol	10.710	330	16890	19.291	ng	0.00
45) 2-Fluorobiphenyl	9.233	172	88727	18.166	ng	0.00
79) Terphenyl-d14	12.992	244	90016	12.893	ng	0.00
Target Compounds						Qvalue
49) Acenaphthylene	9.780	152	15165	2.728	ng	96
71) Phenanthrene	11.433	178	68584	11.389	ng	97
75) Fluoranthene	12.627	202	120421	18.101	ng	98
78) Pyrene	12.857	202	139839	15.936	ng	99
81) Benzo(a)anthracene	14.045	228	77131m	9.351	ng	
83) Chrysene	14.080	228	80338	10.379	ng	97
87) Indeno(1,2,3-cd)pyrene	17.039	276	29066	2.828	ng	93
88) Benzo(b)fluoranthene	15.104	252	92941m	10.982	ng	
89) Benzo(k)fluoranthene	15.121	252	34254m	4.387	ng	
90) Benzo(a)pyrene	15.474	252	70517	9.288	ng	97
92) Benzo(g,h,i)perylene	17.492	276	28907	3.534	ng #	95

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

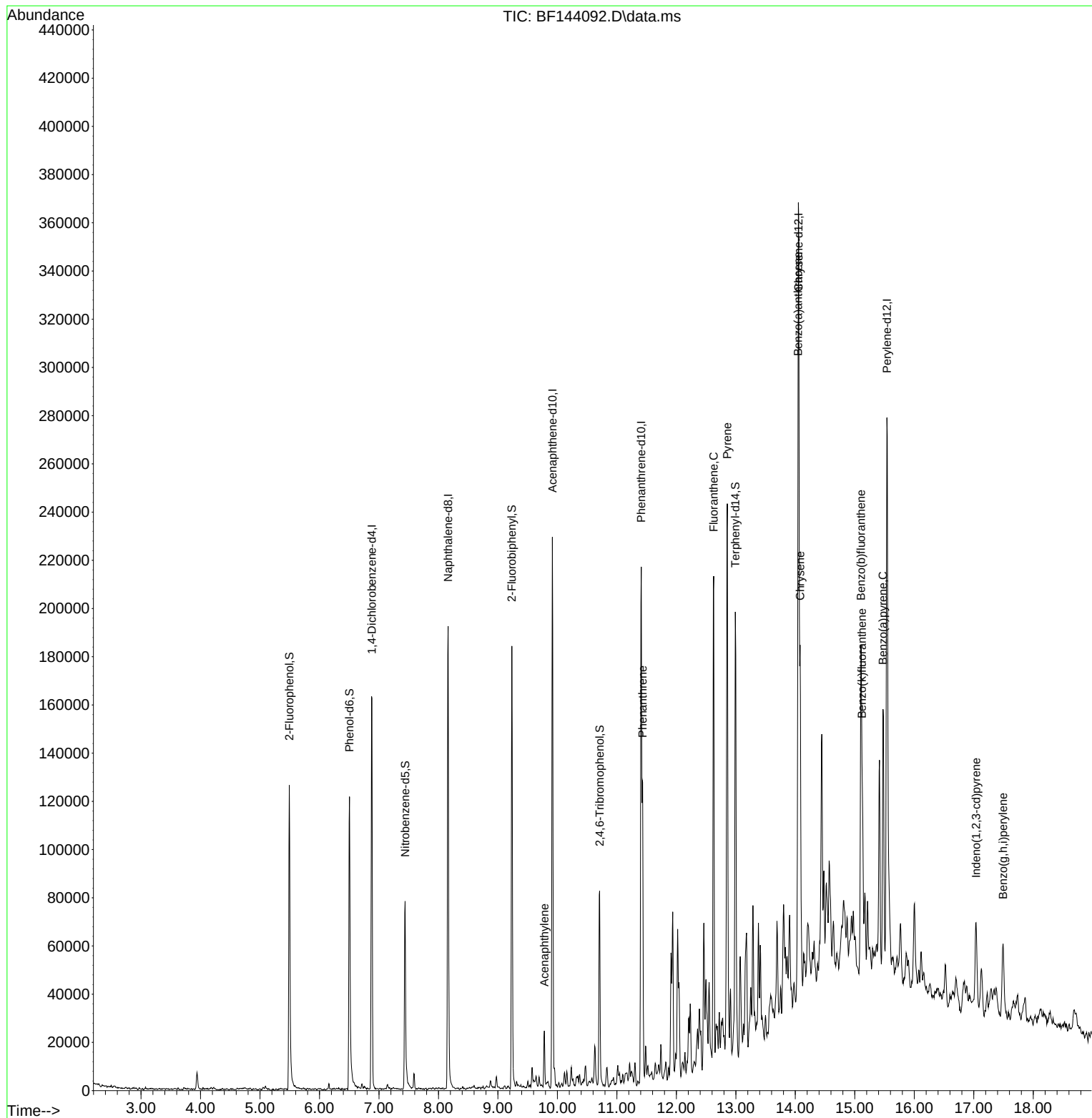
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102725\
Data File : BF144092.D
Acq On : 27 Oct 2025 19:32
Operator : RC/JU
Sample : Q3449-01 5X
Misc :
ALS Vial : 20 Sample Multiplier: 1

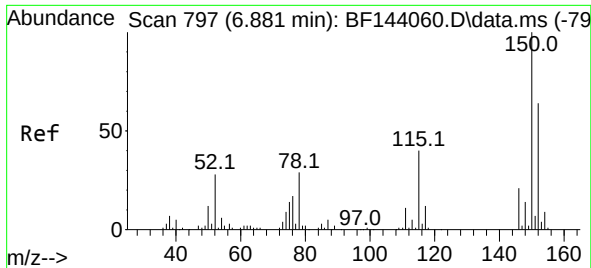
Instrument :
BNA_F
ClientSampleId :
CF-620-COMP-41

Quant Time: Oct 28 10:41:57 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

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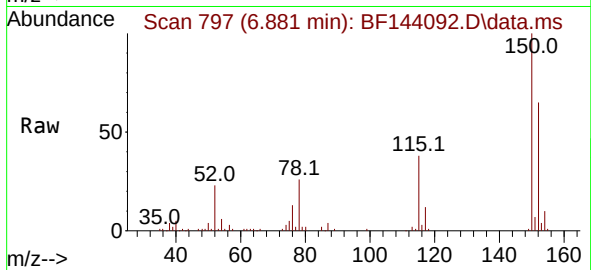
Reviewed By :Rahul Chavli 10/28/2025
Supervised By :mohammad ahmed 10/30/2025





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.881 min Scan# 797
Delta R.T. -0.000 min
Lab File: BF144092.D
Acq: 27 Oct 2025 19:32

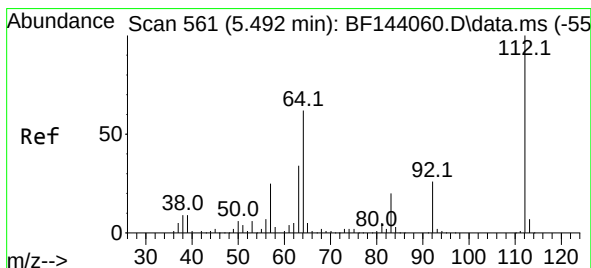
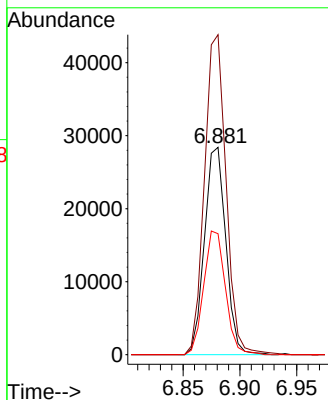
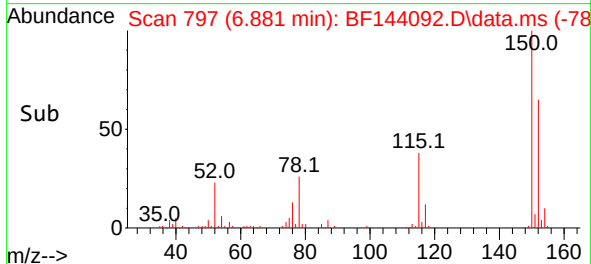
Instrument :
BNA_F
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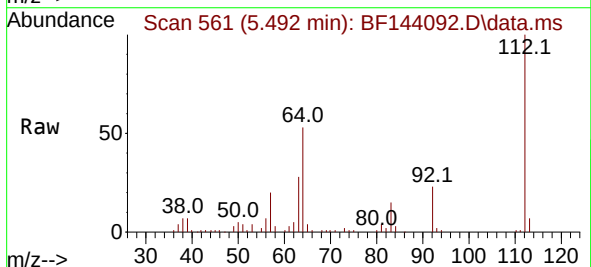
Tgt Ion:152 Resp: 3703
Ion Ratio Lower Upper
152 100
150 154.4 124.4 186.6
115 58.3 49.4 74.0

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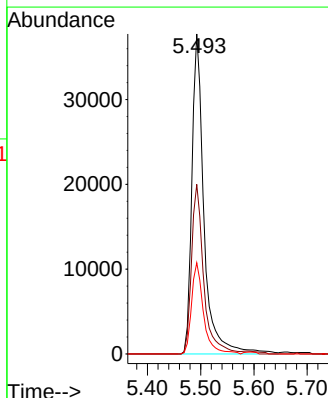
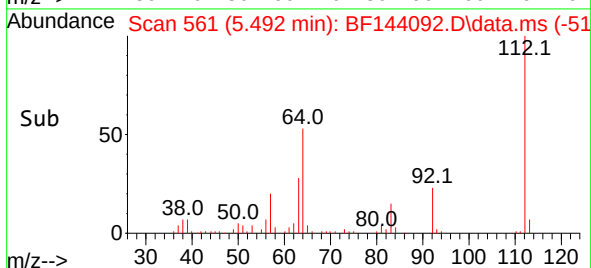
Reviewed By :Rahul Chavli 10/28/2025
Supervised By :mohammad ahmed 10/30/2025

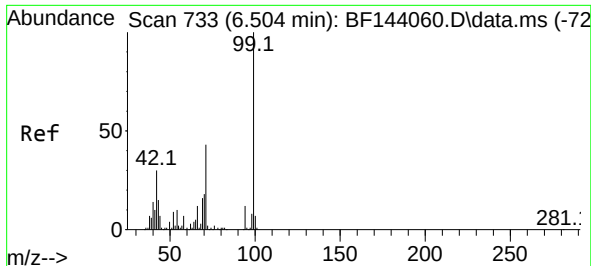


#5
2-Fluorophenol
Concen: 25.577 ng
RT: 5.492 min Scan# 561
Delta R.T. 0.000 min
Lab File: BF144092.D
Acq: 27 Oct 2025 19:32



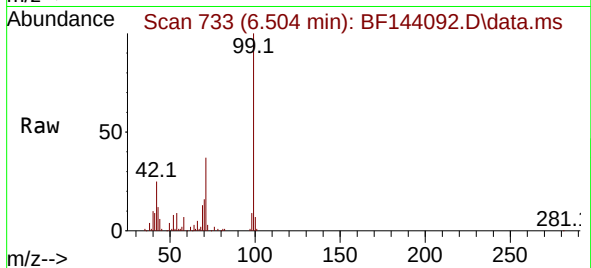
Tgt Ion:112 Resp: 59865
Ion Ratio Lower Upper
112 100
64 53.0 49.8 74.8
63 28.5 27.4 41.2





#7
Phenol-d6
Concen: 24.665 ng
RT: 6.504 min Scan# 71
Delta R.T. 0.000 min
Lab File: BF144092.D
Acq: 27 Oct 2025 19:32

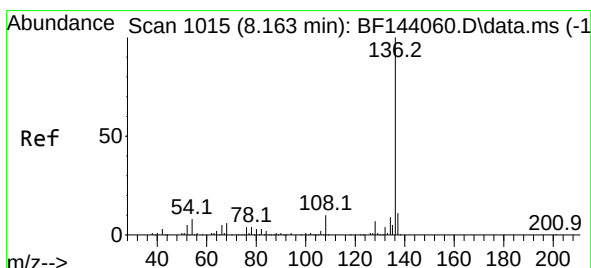
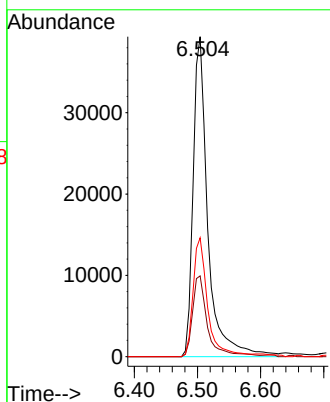
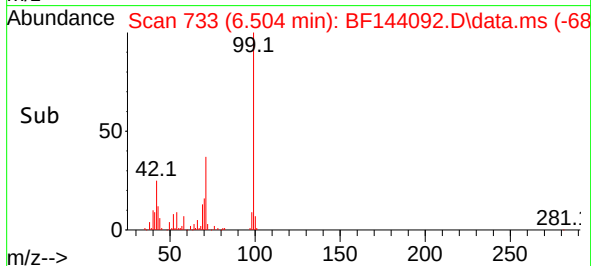
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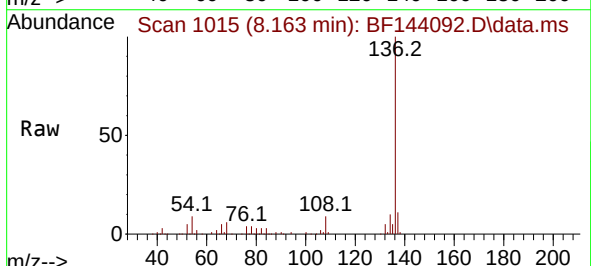
Tgt Ion: 99 Resp: 63758
Ion Ratio Lower Upper
99 100
42 25.2 23.9 35.9
71 37.2 34.4 51.6

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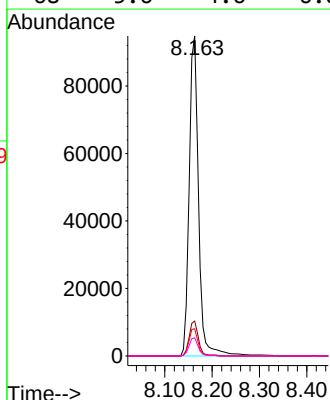
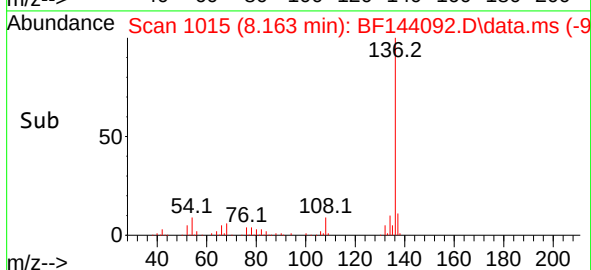
Reviewed By :Rahul Chavli 10/28/2025
Supervised By :mohammad ahmed 10/30/2025

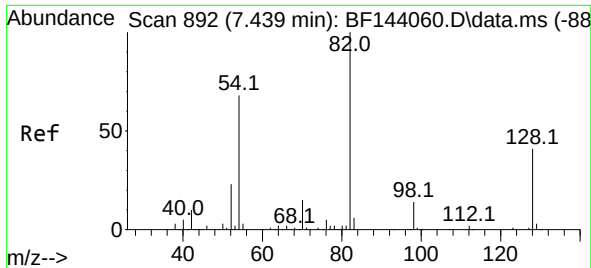


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.163 min Scan# 1015
Delta R.T. 0.000 min
Lab File: BF144092.D
Acq: 27 Oct 2025 19:32



Tgt Ion:136 Resp: 130574
Ion Ratio Lower Upper
136 100
137 10.9 8.6 13.0
54 8.5 6.6 9.8
68 5.6 4.6 6.8





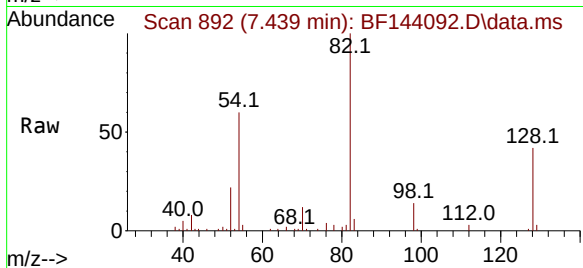
#23
Nitrobenzene-d5
Concen: 16.201 ng
RT: 7.439 min Scan# 892
Delta R.T. 0.000 min
Lab File: BF144092.D
Acq: 27 Oct 2025 19:32

Instrument :

BNA_F

ClientSampleId :

CF-620-COMP-41

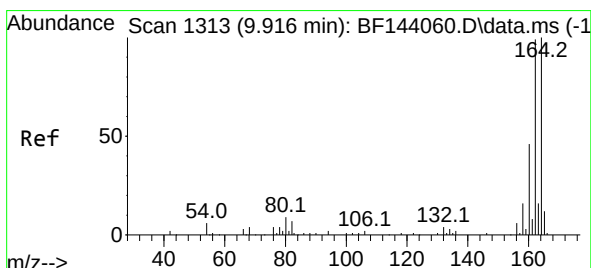
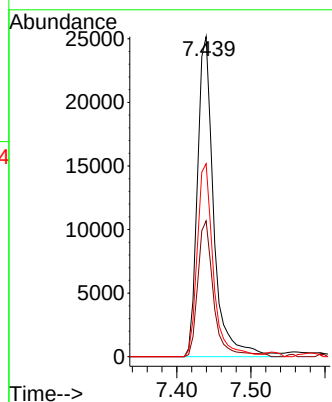
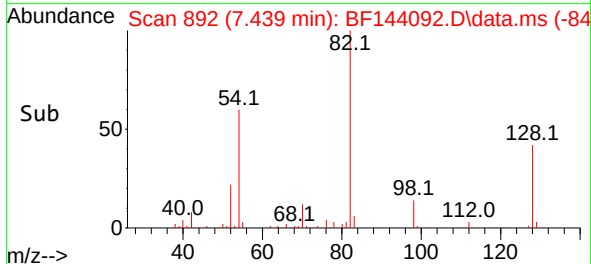


Tgt Ion: 82 Resp: 3861
Ion Ratio Lower Upper
82 100
128 42.4 32.4 48.6
54 60.3 54.0 81.0

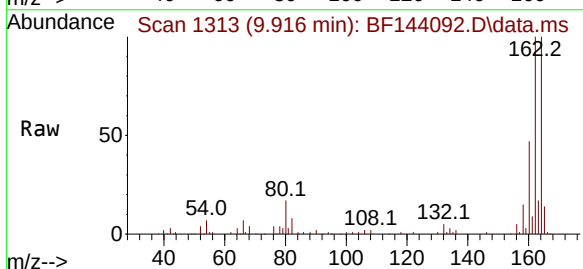
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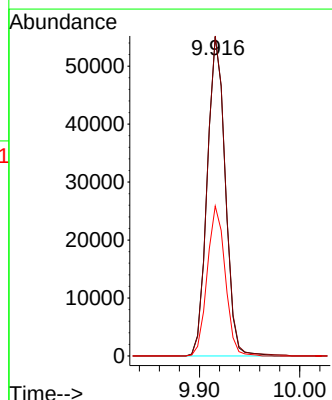
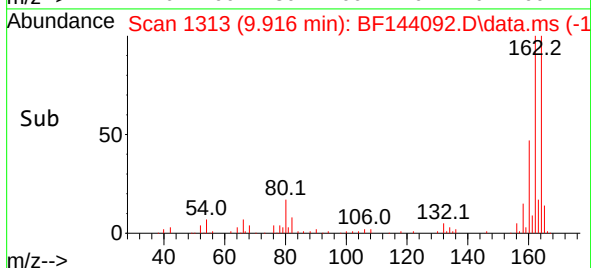
Reviewed By :Rahul Chavli 10/28/2025
Supervised By :mohammad ahmed 10/30/2025

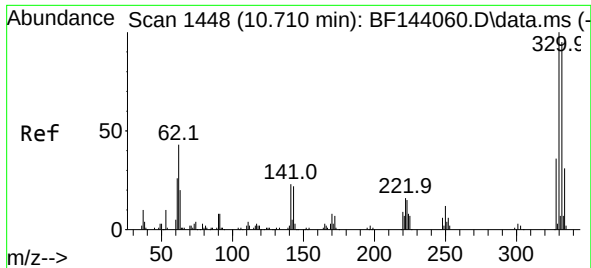


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.916 min Scan# 1313
Delta R.T. 0.000 min
Lab File: BF144092.D
Acq: 27 Oct 2025 19:32



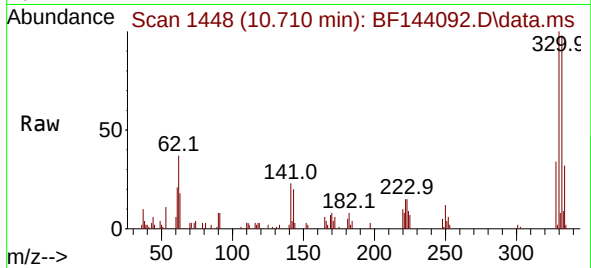
Tgt Ion:164 Resp: 68733
Ion Ratio Lower Upper
164 100
162 100.3 79.4 119.2
160 47.0 36.7 55.1





#42
2,4,6-Tribromophenol
Concen: 19.291 ng
RT: 10.710 min Scan# 1448
Delta R.T. 0.000 min
Lab File: BF144092.D
Acq: 27 Oct 2025 19:32

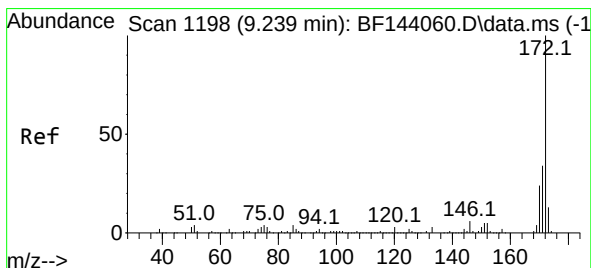
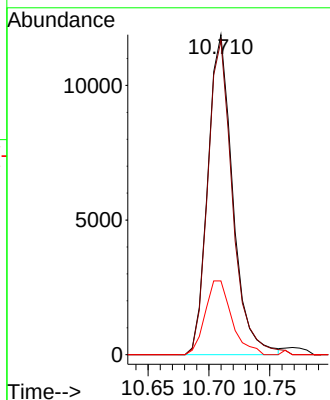
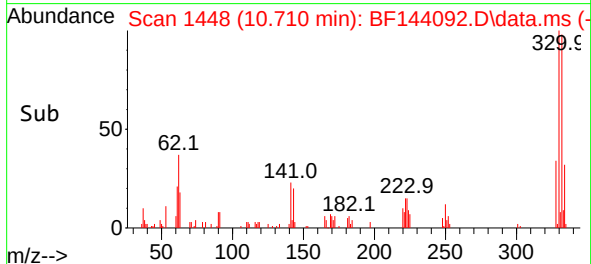
Instrument :
BNA_F
ClientSampleId :
CF-620-COMP-41



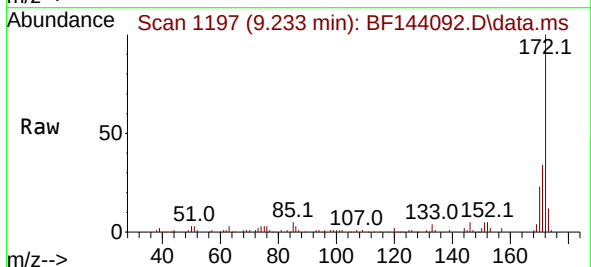
Tgt Ion:330 Resp: 16890
Ion Ratio Lower Upper
330 100
332 97.3 77.0 115.6
141 24.6 19.4 29.0

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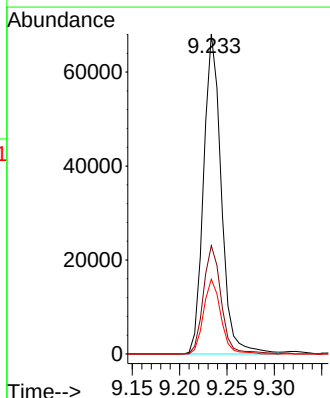
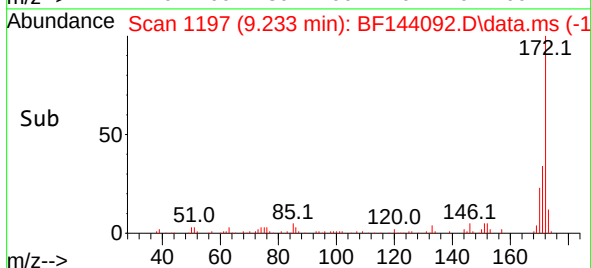
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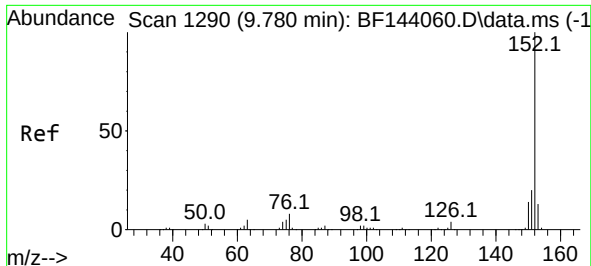


#45
2-Fluorobiphenyl
Concen: 18.166 ng
RT: 9.233 min Scan# 1197
Delta R.T. -0.006 min
Lab File: BF144092.D
Acq: 27 Oct 2025 19:32



Tgt Ion:172 Resp: 88727
Ion Ratio Lower Upper
172 100
171 33.8 27.5 41.3
170 23.3 19.0 28.6





#49

Acenaphthylene

Concen: 2.728 ng

RT: 9.780 min Scan# 1290

Delta R.T. 0.000 min

Lab File: BF144092.D

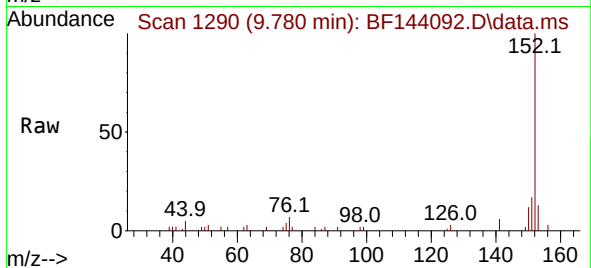
Acq: 27 Oct 2025 19:32

Instrument :

BNA_F

ClientSampleId :

CF-620-COMP-41



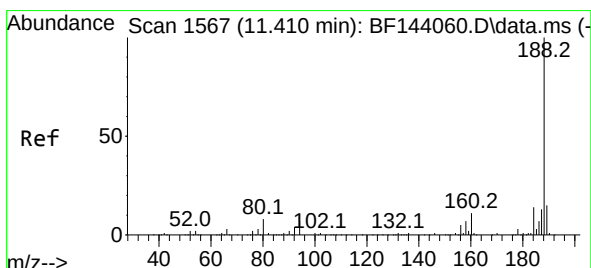
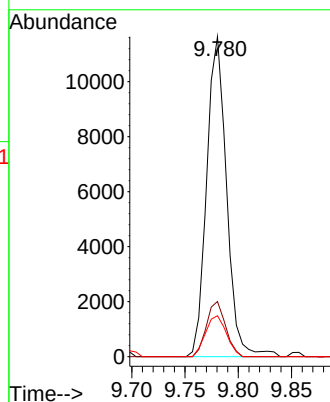
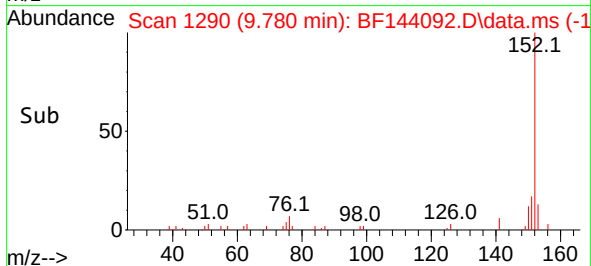
Tgt Ion:	152	Resp:	1516
Ion Ratio	Lower	Upper	
152	100		
151	17.2	15.9	23.9
153	12.8	10.4	15.6

Manual Integrations

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Supervised By :mohammad ahmed 10/30/2025



#64

Phenanthrene-d10

Concen: 20.000 ng

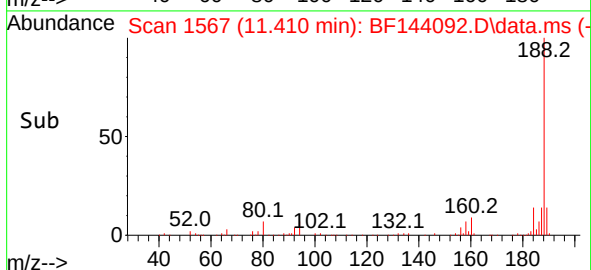
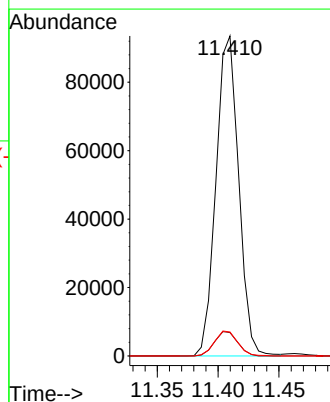
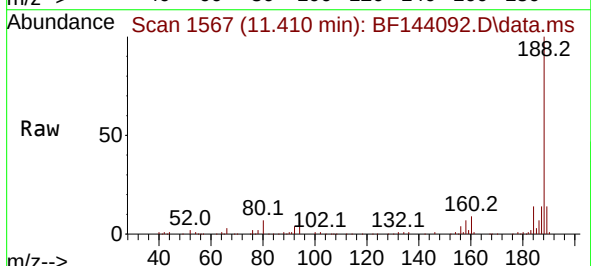
RT: 11.410 min Scan# 1567

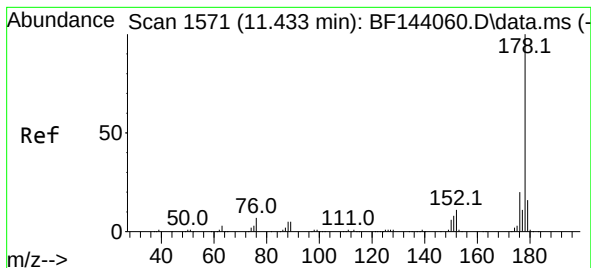
Delta R.T. 0.000 min

Lab File: BF144092.D

Acq: 27 Oct 2025 19:32

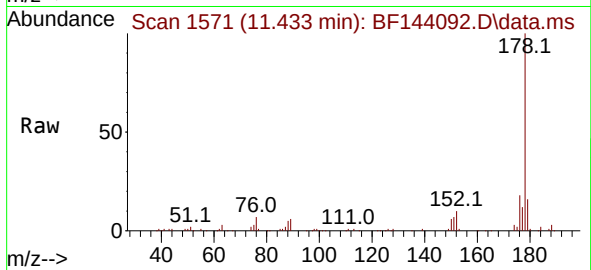
Tgt Ion:	188	Resp:	121222
Ion Ratio	Lower	Upper	
188	100		
94	7.3	5.4	8.0
80	7.5	6.0	9.0





#71
Phenanthrene
Concen: 11.389 ng
RT: 11.433 min Scan# 1571
Delta R.T. 0.000 min
Lab File: BF144092.D
Acq: 27 Oct 2025 19:32

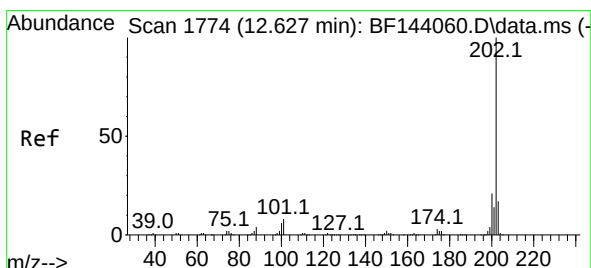
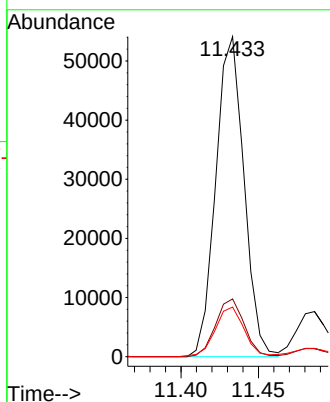
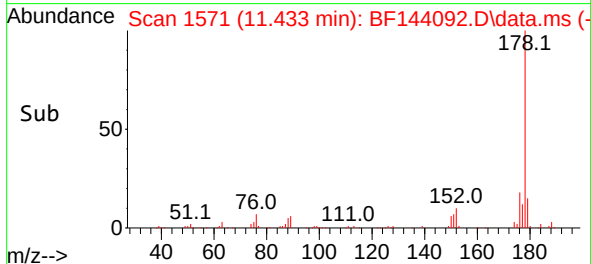
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CF-620-COMP-41



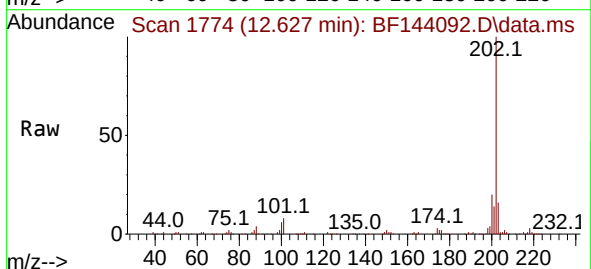
Tgt Ion:178 Resp: 68584
Ion Ratio Lower Upper
178 100
176 18.0 16.3 24.5
179 15.5 12.6 18.8

Manual Integrations
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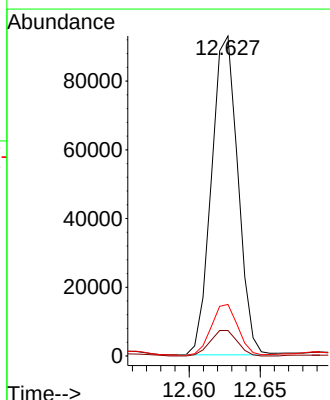
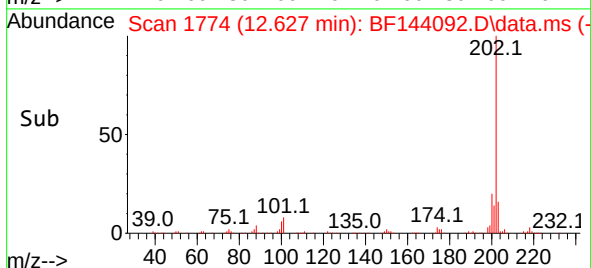
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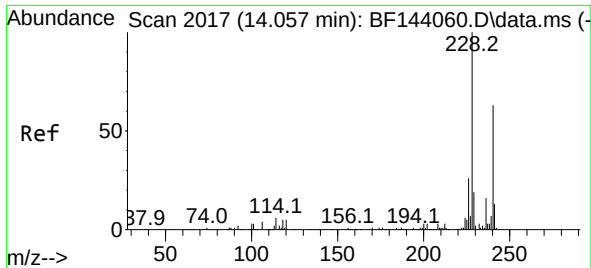


#75
Fluoranthene
Concen: 18.101 ng
RT: 12.627 min Scan# 1774
Delta R.T. 0.000 min
Lab File: BF144092.D
Acq: 27 Oct 2025 19:32



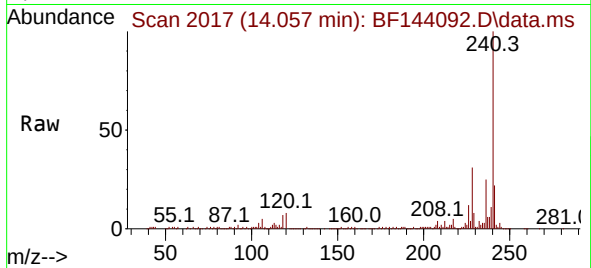
Tgt Ion:202 Resp: 120421
Ion Ratio Lower Upper
202 100
101 8.0 0.0 27.7
203 16.1 0.0 37.3





#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.057 min Scan# 2017
Delta R.T. 0.000 min
Lab File: BF144092.D
Acq: 27 Oct 2025 19:32

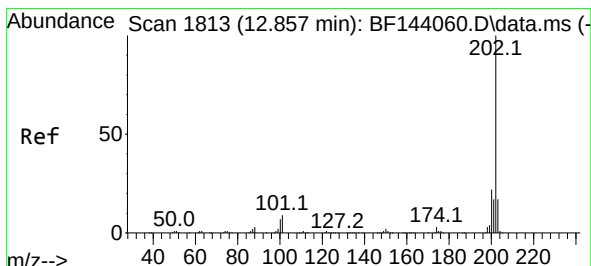
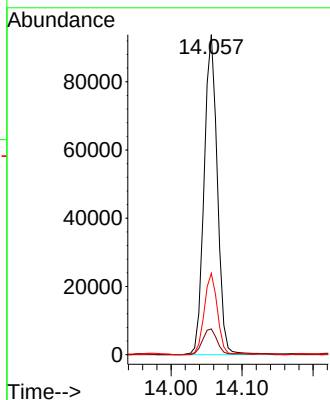
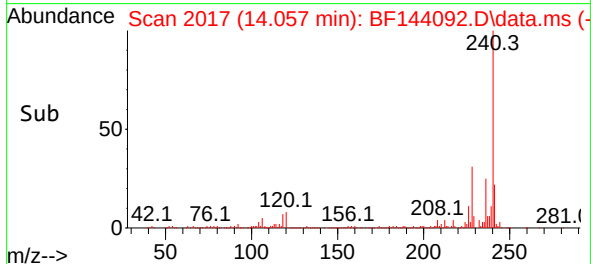
Instrument :
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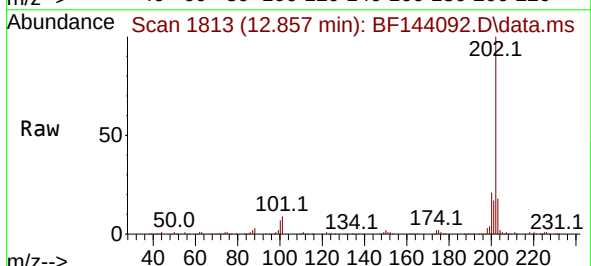
Tgt Ion:240 Resp: 122054
Ion Ratio Lower Upper
240 100
120 8.0 6.5 9.7
236 25.4 20.1 30.1

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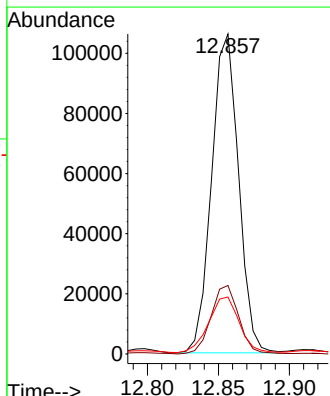
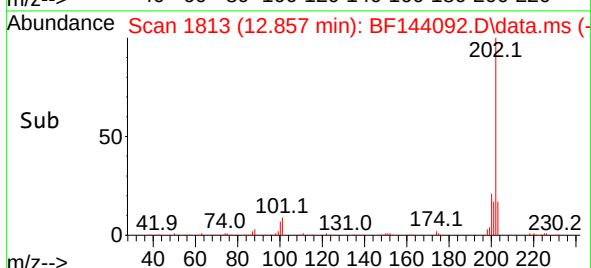
Reviewed By :Rahul Chavli 10/28/2025
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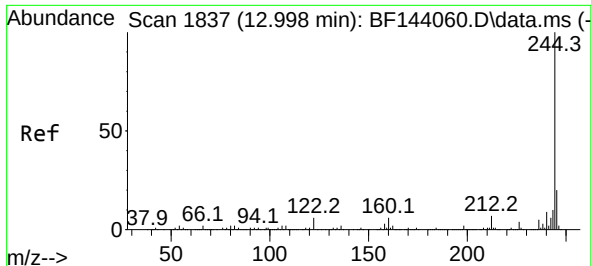


#78
Pyrene
Concen: 15.936 ng
RT: 12.857 min Scan# 1813
Delta R.T. 0.000 min
Lab File: BF144092.D
Acq: 27 Oct 2025 19:32



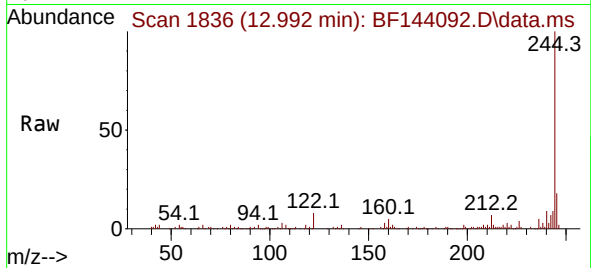
Tgt Ion:202 Resp: 139839
Ion Ratio Lower Upper
202 100
200 21.4 17.2 25.8
203 17.8 13.5 20.3





#79
 Terphenyl-d14
 Concen: 12.893 ng
 RT: 12.992 min Scan# 1836
 Delta R.T. -0.006 min
 Lab File: BF144092.D
 Acq: 27 Oct 2025 19:32

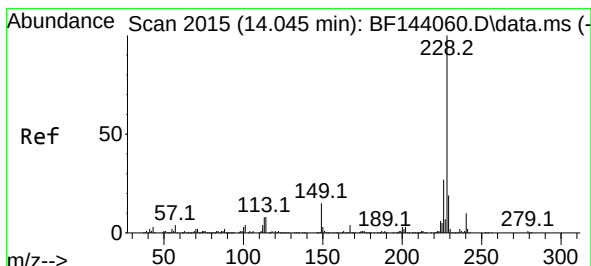
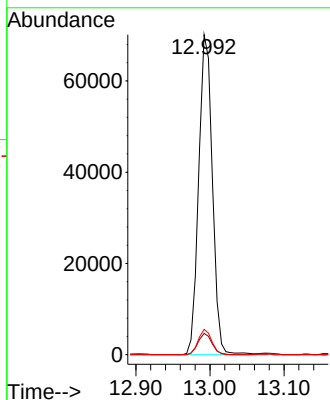
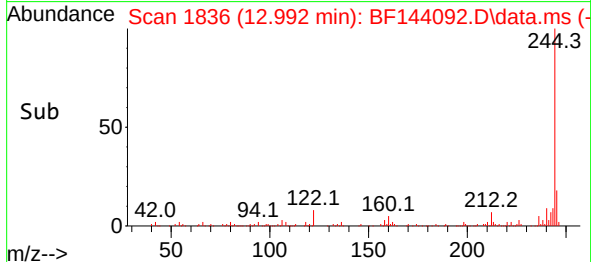
Instrument :
 BNA_F
 ClientSampleId :
 CF-620-COMP-41



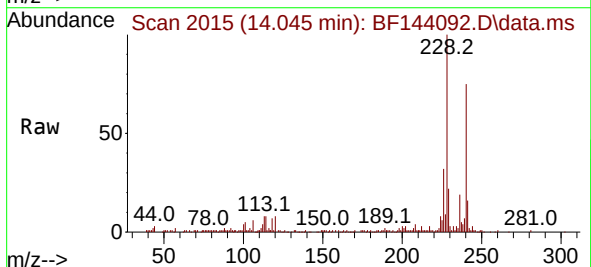
Tgt Ion:244 Resp: 90010
 Ion Ratio Lower Upper
 244 100
 212 6.6 5.8 8.6
 122 7.9 4.9 7.3

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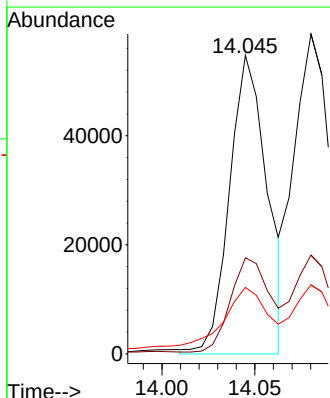
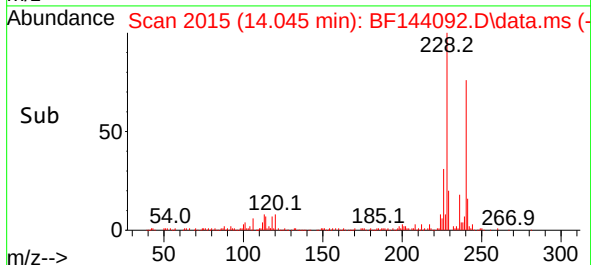
Reviewed By :Rahul Chavli 10/28/2025
 Supervised By :mohammad ahmed 10/30/2025

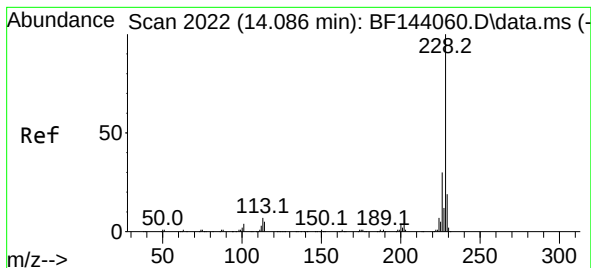


#81
 Benzo(a)anthracene
 Concen: 9.351 ng m
 RT: 14.045 min Scan# 2015
 Delta R.T. 0.000 min
 Lab File: BF144092.D
 Acq: 27 Oct 2025 19:32



Tgt Ion:228 Resp: 77131
 Ion Ratio Lower Upper
 228 100
 226 32.2 21.4 32.2#
 229 22.3 15.3 22.9





#83

Chrysene

Concen: 10.379 ng

RT: 14.080 min Scan# 2022

Delta R.T. -0.006 min

Lab File: BF144092.D

Acq: 27 Oct 2025 19:32

Instrument :

BNA_F

ClientSampleId :

CF-620-COMP-41

Tgt Ion:228 Resp: 80338

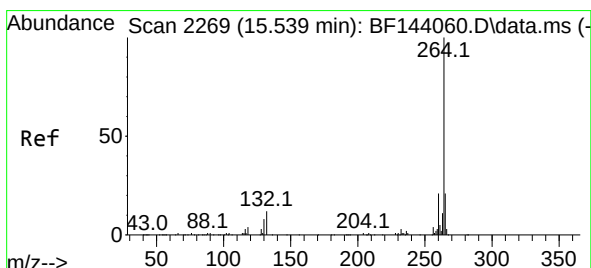
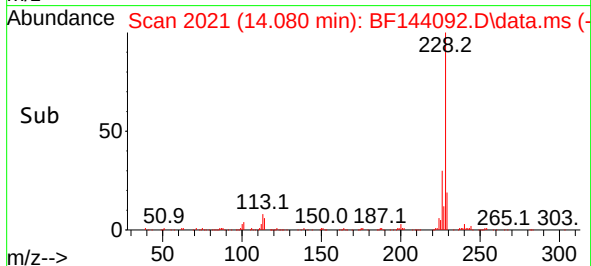
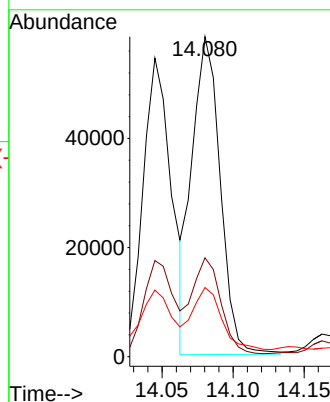
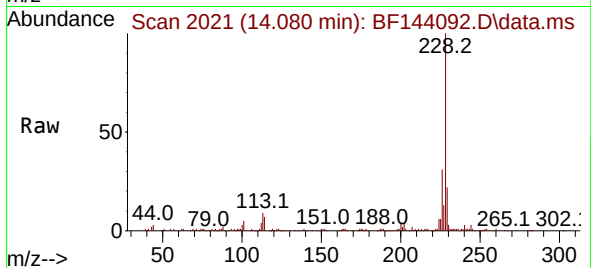
Ion	Ratio	Lower	Upper
228	100		
226	30.9	23.8	35.6
229	21.6	15.6	23.4

Manual Integrations

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Reviewed By :Rahul Chavli 10/28/2025

Supervised By :mohammad ahmed 10/30/2025



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.539 min Scan# 2269

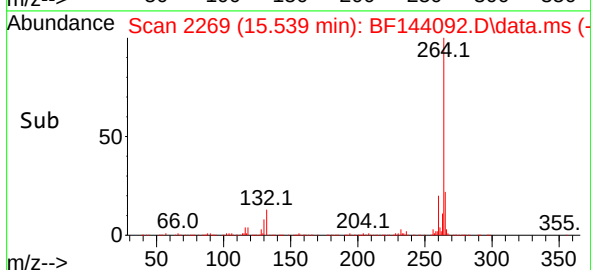
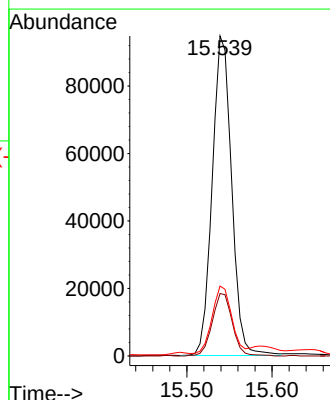
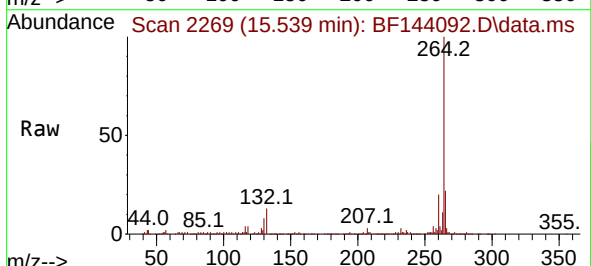
Delta R.T. 0.000 min

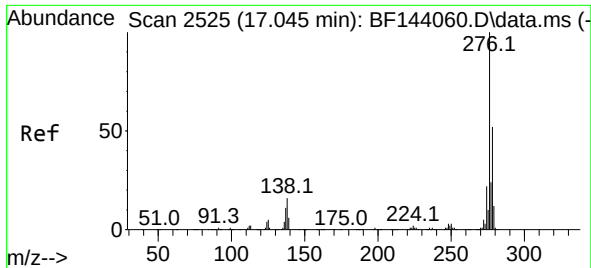
Lab File: BF144092.D

Acq: 27 Oct 2025 19:32

Tgt Ion:264 Resp: 149696

Ion	Ratio	Lower	Upper
264	100		
260	19.5	17.0	25.4
265	21.9	16.6	24.8





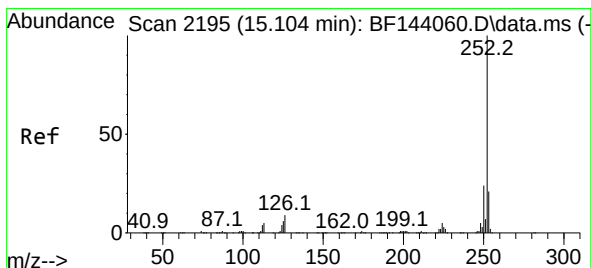
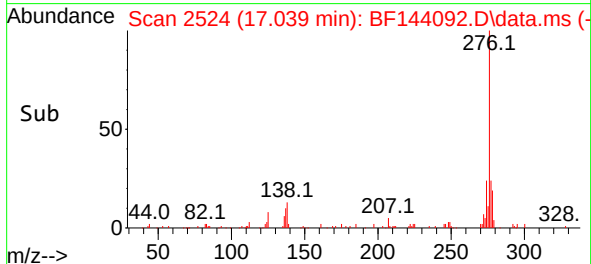
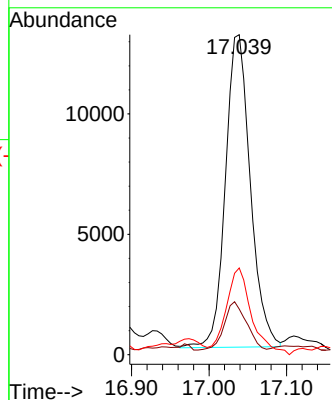
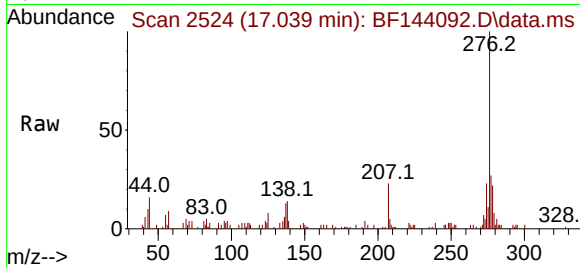
#87
Indeno(1,2,3-cd)pyrene
Concen: 2.828 ng
RT: 17.039 min Scan# 2196
Delta R.T. -0.006 min
Lab File: BF144092.D
Acq: 27 Oct 2025 19:32

Instrument :
BNA_F
ClientSampleId :
CF-620-COMP-41

Tgt Ion:276 Resp: 2906
Ion Ratio Lower Upper
276 100
138 14.0 13.0 19.6
277 28.4 19.4 29.0

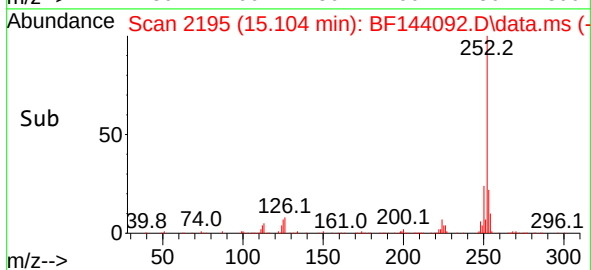
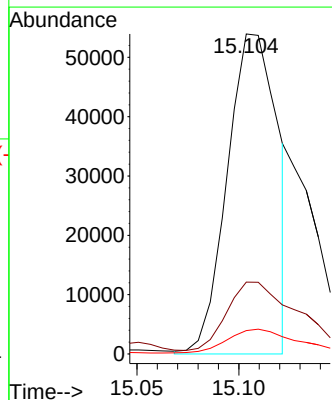
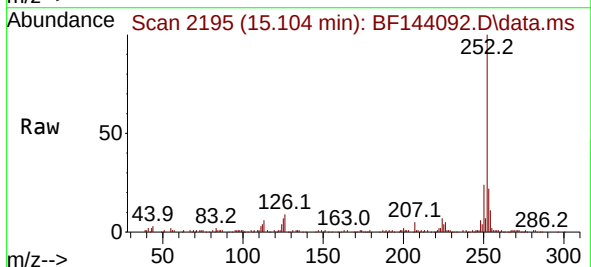
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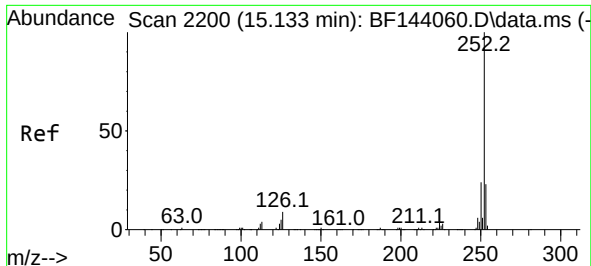
Reviewed By :Rahul Chavli 10/28/2025
Supervised By :mohammad ahmed 10/30/2025



#88
Benzo(b)fluoranthene
Concen: 10.982 ng m
RT: 15.104 min Scan# 2195
Delta R.T. 0.000 min
Lab File: BF144092.D
Acq: 27 Oct 2025 19:32

Tgt Ion:252 Resp: 92941
Ion Ratio Lower Upper
252 100
253 22.5 17.2 25.8
125 7.3 5.0 7.6





#89

Benzo(k)fluoranthene

Concen: 4.387 ng m

RT: 15.121 min Scan# 2198

Delta R.T. -0.012 min

Lab File: BF144092.D

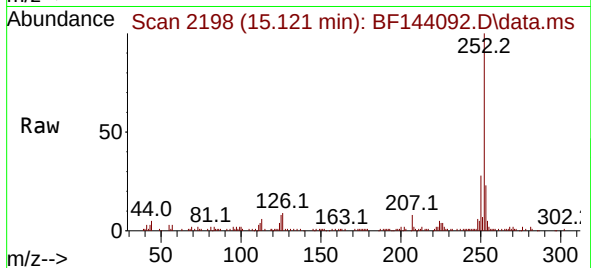
Acq: 27 Oct 2025 19:32

Instrument :

BNA_F

ClientSampleId :

CF-620-COMP-41



Tgt Ion:252 Resp: 34254

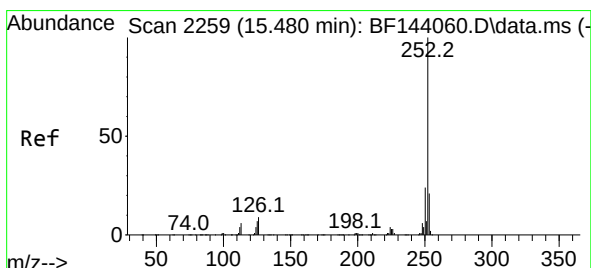
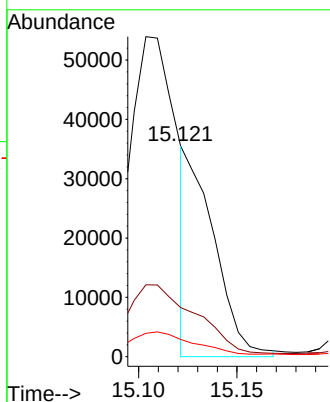
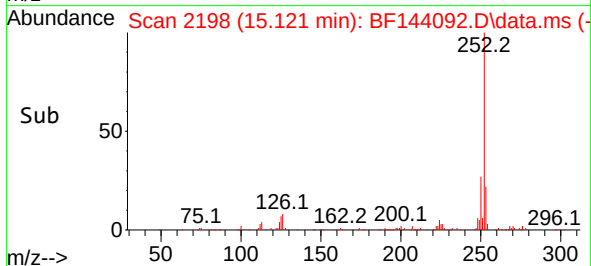
Ion	Ratio	Lower	Upper
252	100		
253	23.3	17.4	26.2
125	8.2	4.9	7.3

Manual Integrations

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Reviewed By :Rahul Chavli 10/28/2025

Supervised By :mohammad ahmed 10/30/2025



#90

Benzo(a)pyrene

Concen: 9.288 ng

RT: 15.474 min Scan# 2258

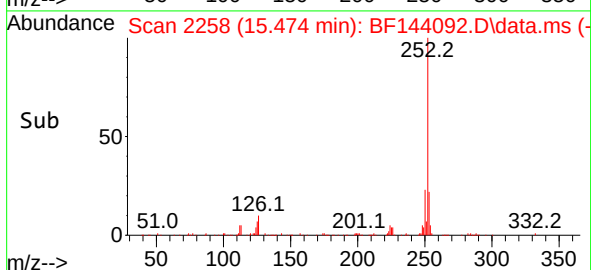
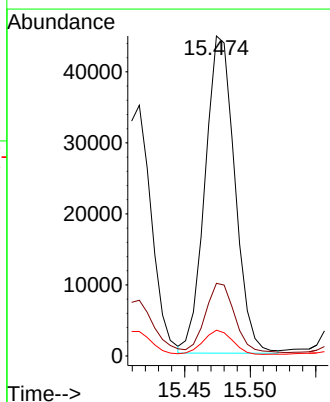
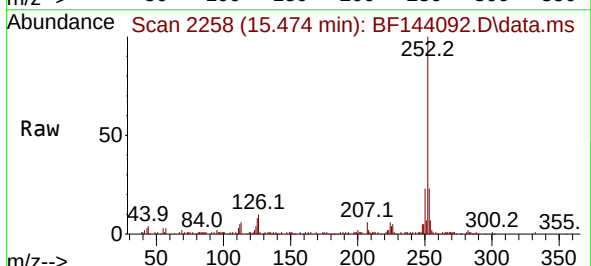
Delta R.T. -0.006 min

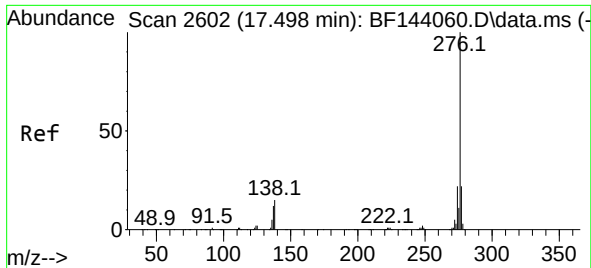
Lab File: BF144092.D

Acq: 27 Oct 2025 19:32

Tgt Ion:252 Resp: 70517

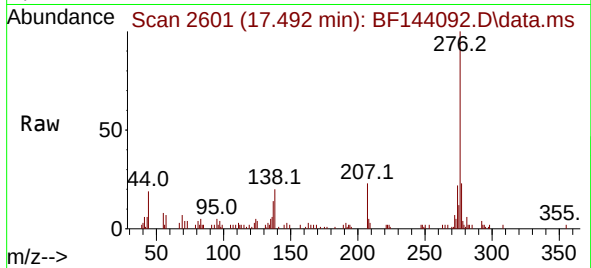
Ion	Ratio	Lower	Upper
252	100		
253	22.7	17.1	25.7
125	8.0	5.4	8.2





#92
 Benzo(g,h,i)perylene
 Concen: 3.534 ng
 RT: 17.492 min Scan# 20
 Delta R.T. -0.006 min
 Lab File: BF144092.D
 Acq: 27 Oct 2025 19:32

Instrument :
 BNA_F
 ClientSampleId :
 CF-620-COMP-41



Tgt Ion: 276 Resp: 2890
 Ion Ratio Lower Upper
 276 100
 277 22.8 17.9 26.9
 138 19.5 12.0 18.0

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

