

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102725\
 Data File : BF144095.D
 Acq On : 27 Oct 2025 21:02
 Operator : RC/JU
 Sample : Q3447-07 2X
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 P001-TW4-251023-01

Manual Integrations
 APPROVED

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

Quant Time: Oct 28 10:43:03 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	51901	20.000	ng	0.00
21) Naphthalene-d8	8.163	136	181596	20.000	ng	0.00
39) Acenaphthene-d10	9.922	164	92703	20.000	ng	0.00
64) Phenanthrene-d10	11.416	188	151349	20.000	ng	0.00
76) Chrysene-d12	14.092	240	148380	20.000	ng	0.04
86) Perylene-d12	15.569	264	92727	20.000	ng	# 0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.493	112	127089	38.741	ng	0.00
7) Phenol-d6	6.504	99	147472	40.705	ng	0.00
23) Nitrobenzene-d5	7.440	82	86343	26.049	ng	0.00
42) 2,4,6-Tribromophenol	10.710	330	46077	39.020	ng	0.00
45) 2-Fluorobiphenyl	9.234	172	197306	29.951	ng	0.00
79) Terphenyl-d14	13.027	244	187309	22.069	ng	0.03
Target Compounds						Qvalue
9) Benzaldehyde	6.434	77	9353	3.325	ng	97
52) Acenaphthene	9.951	154	14500	2.896	ng	94
58) Fluorene	10.469	166	16255	3.069	ng	# 96
71) Phenanthrene	11.439	178	244138	32.472	ng	100
72) Anthracene	11.486	178	50701m	6.528	ng	
75) Fluoranthene	12.669	202	276969	33.344	ng	97
78) Pyrene	12.898	202	262159m	24.576	ng	
81) Benzo(a)anthracene	14.080	228	223515	22.290	ng	# 92
83) Chrysene	14.116	228	206519	21.947	ng	# 91
87) Indeno(1,2,3-cd)pyrene	17.074	276	70422	11.062	ng	99
88) Benzo(b)fluoranthene	15.133	252	215514m	41.112	ng	
89) Benzo(k)fluoranthene	15.151	252	69604m	14.391	ng	
90) Benzo(a)pyrene	15.510	252	134648	28.631	ng	95
91) Dibenzo(a,h)anthracene	17.080	278	27110	5.380	ng	# 75
92) Benzo(g,h,i)perylene	17.527	276	88017	17.372	ng	95

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

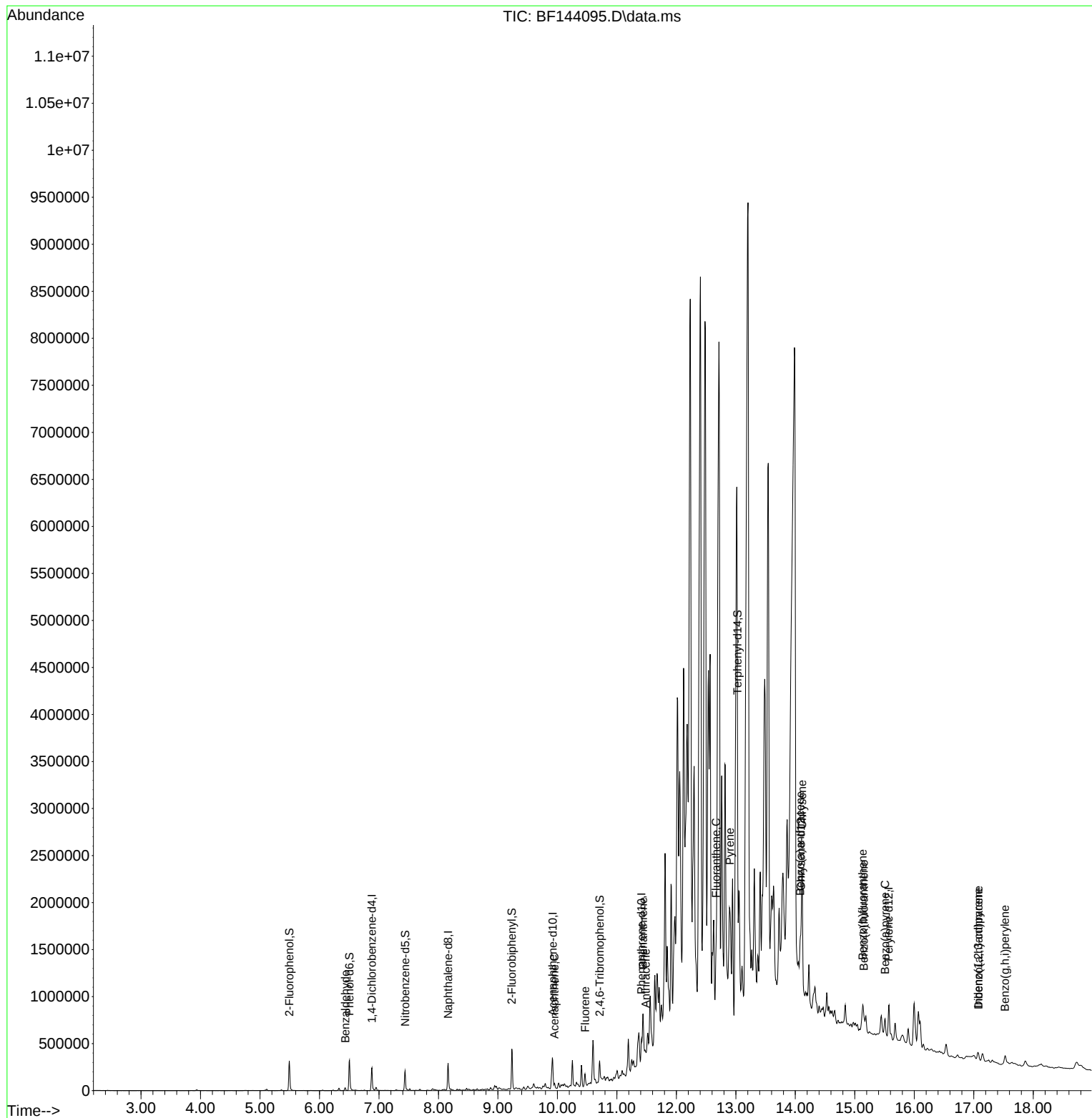
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102725\
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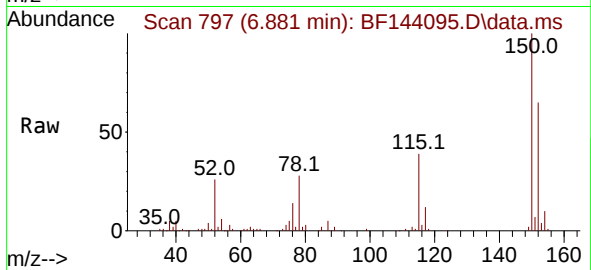
Reviewed By :Rahul Chavli 10/28/2025
Supervised By :mohammad ahmed 10/30/2025





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.881 min Scan# 797
Delta R.T. -0.000 min
Lab File: BF144095.D
Acq: 27 Oct 2025 21:02

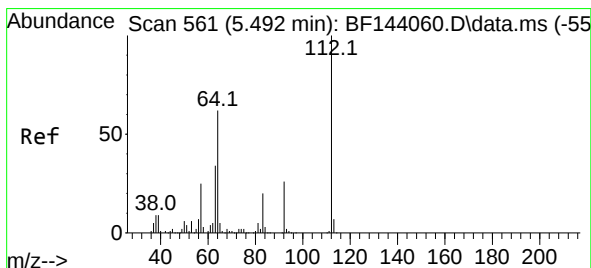
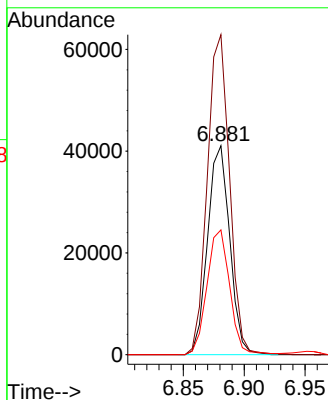
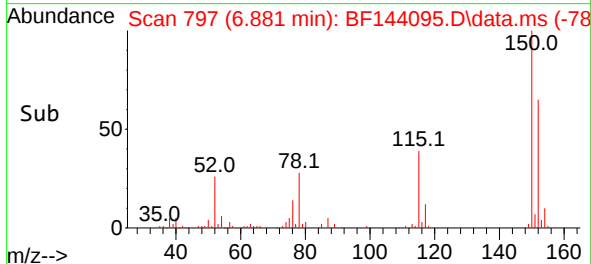
Instrument :
BNA_F
ClientSampleId :
P001-TW4-251023-01



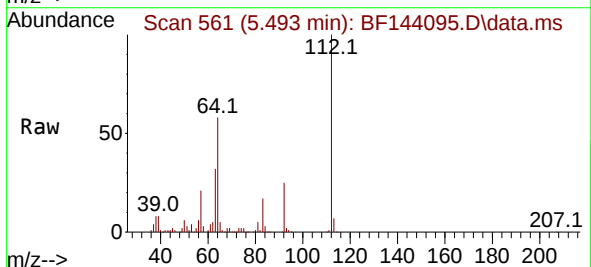
Tgt Ion:152 Resp: 5190
Ion Ratio Lower Upper
152 100
150 153.1 124.4 186.6
115 59.7 49.4 74.0

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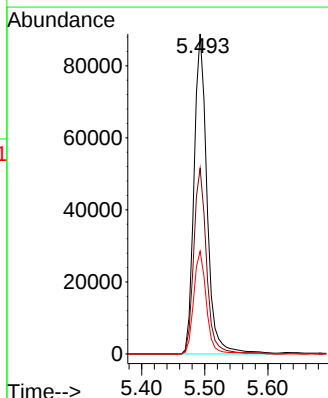
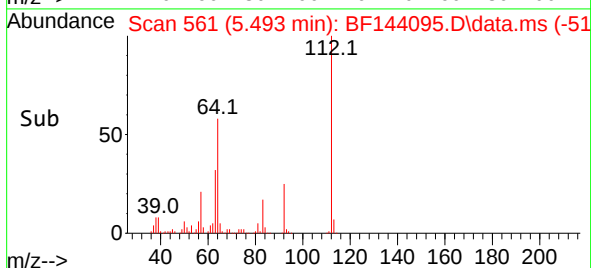
Reviewed By :Rahul Chavli 10/28/2025
Supervised By :mohammad ahmed 10/30/2025

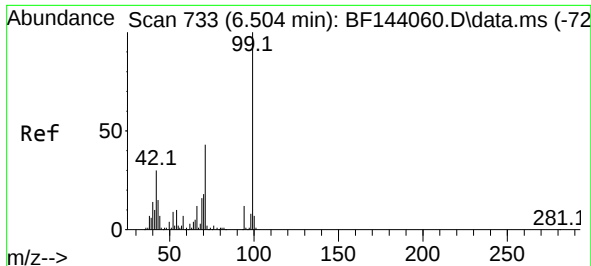


#5
2-Fluorophenol
Concen: 38.741 ng
RT: 5.493 min Scan# 561
Delta R.T. 0.000 min
Lab File: BF144095.D
Acq: 27 Oct 2025 21:02



Tgt Ion:112 Resp: 127089
Ion Ratio Lower Upper
112 100
64 58.0 49.8 74.8
63 32.1 27.4 41.2





#7

Phenol-d6

Concen: 40.705 ng

RT: 6.504 min Scan# 733

Delta R.T. 0.000 min

Lab File: BF144095.D

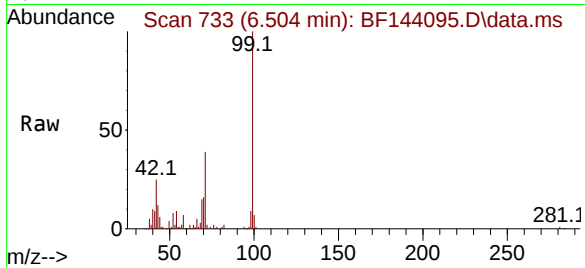
Acq: 27 Oct 2025 21:02

Instrument :

BNA_F

ClientSampleId :

P001-TW4-251023-01



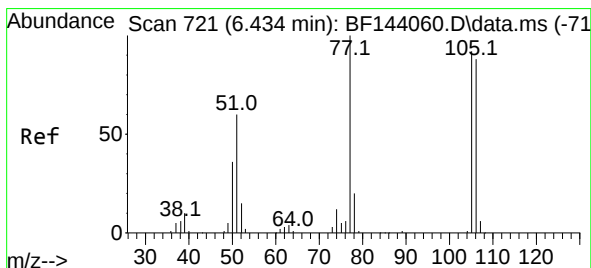
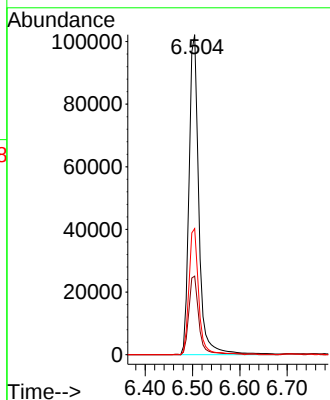
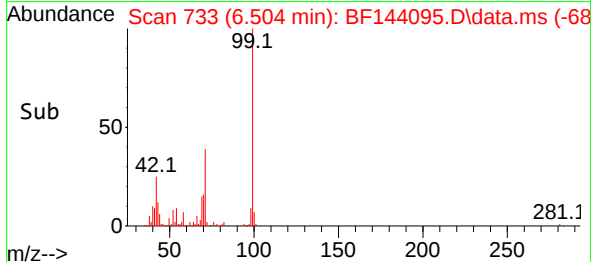
Tgt Ion	Ratio	Lower	Upper
99	100		
42	24.5	23.9	35.9
71	39.4	34.4	51.6

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Supervised By :mohammad ahmed 10/30/2025



#9

Benzaldehyde

Concen: 3.325 ng

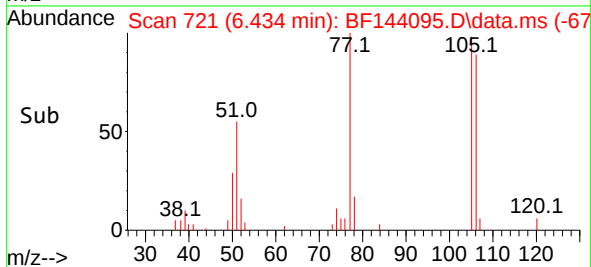
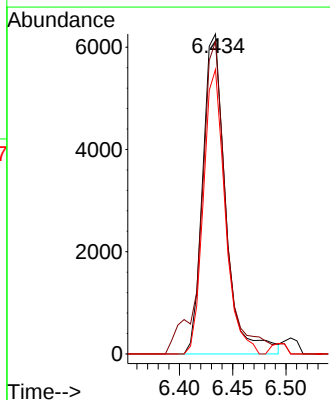
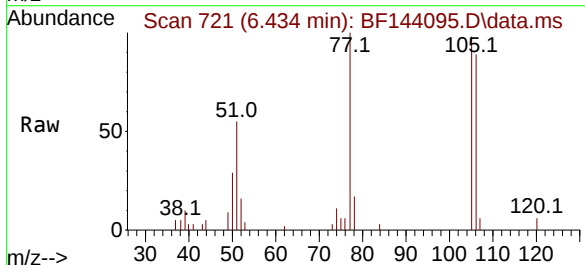
RT: 6.434 min Scan# 721

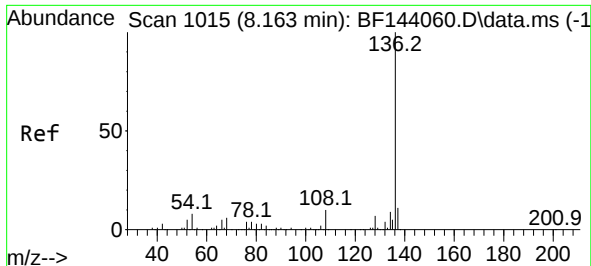
Delta R.T. 0.000 min

Lab File: BF144095.D

Acq: 27 Oct 2025 21:02

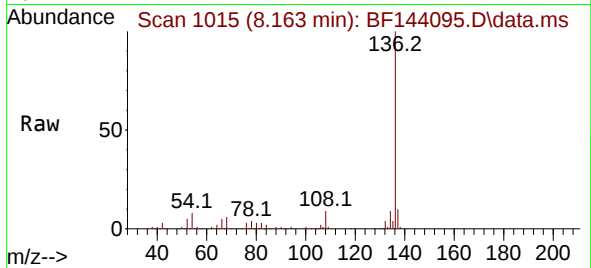
Tgt Ion	Ratio	Lower	Upper
77	100		
105	97.6	72.2	112.2
106	88.9	67.9	107.9





#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.163 min Scan# 1015
Delta R.T. 0.000 min
Lab File: BF144095.D
Acq: 27 Oct 2025 21:02

Instrument :
BNA_F
ClientSampleId :
P001-TW4-251023-01

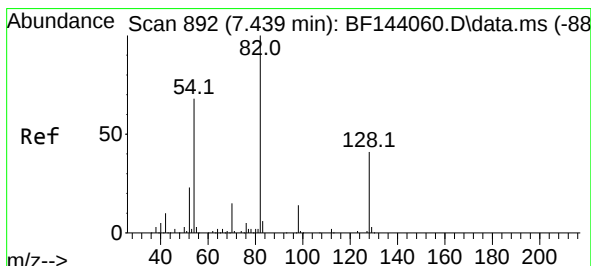
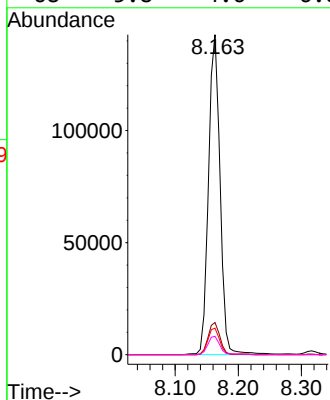
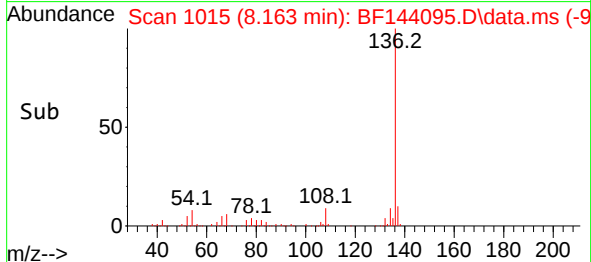


Tgt Ion: 136 Resp: 181590

Ion	Ratio	Lower	Upper
136	100		
137	10.1	8.6	13.0
54	8.3	6.6	9.8
68	5.8	4.6	6.8

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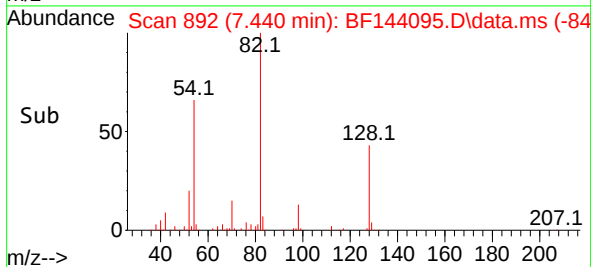
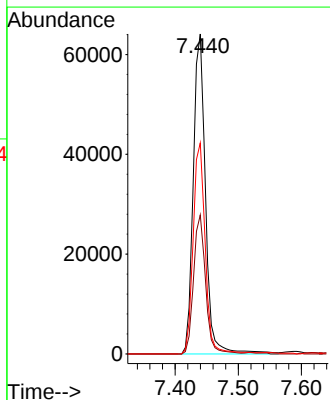
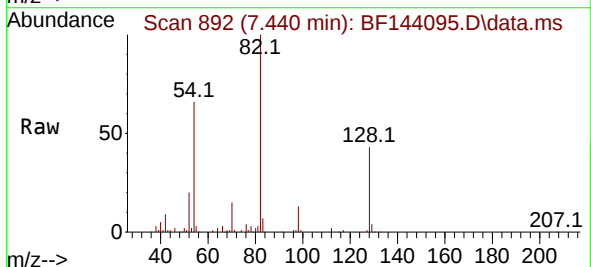
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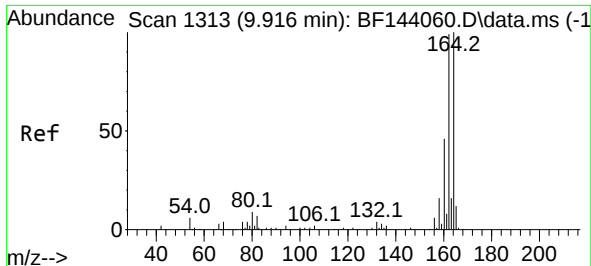


#23
Nitrobenzene-d5
Concen: 26.049 ng
RT: 7.440 min Scan# 892
Delta R.T. 0.000 min
Lab File: BF144095.D
Acq: 27 Oct 2025 21:02

Tgt Ion: 82 Resp: 86343

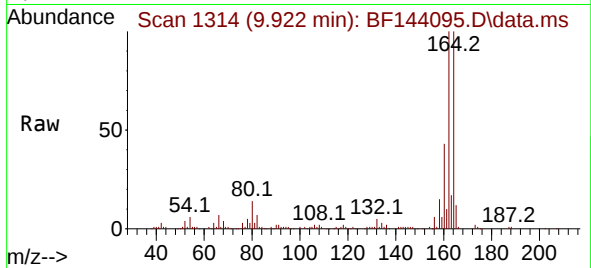
Ion	Ratio	Lower	Upper
82	100		
128	43.5	32.4	48.6
54	65.9	54.0	81.0





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.922 min Scan# 11
Delta R.T. 0.006 min
Lab File: BF144095.D
Acq: 27 Oct 2025 21:02

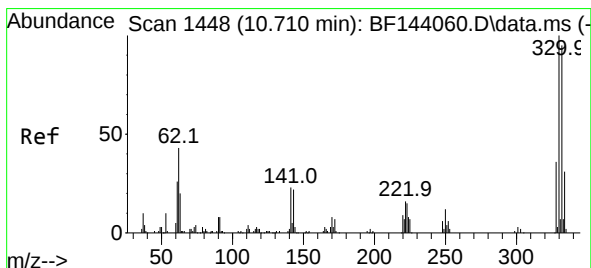
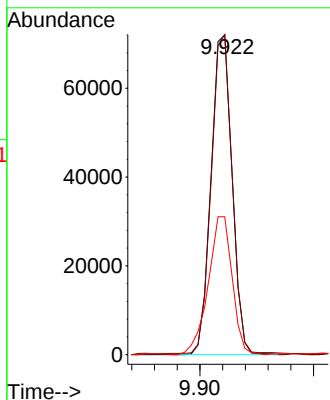
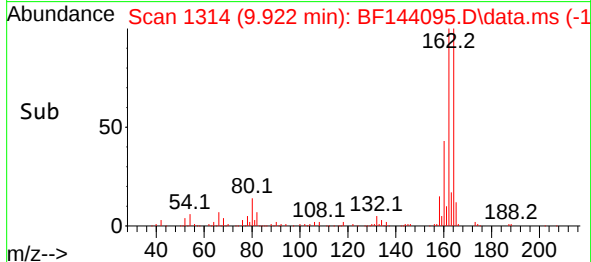
Instrument :
BNA_F
ClientSampleId :
P001-TW4-251023-01



Tgt Ion:164 Resp: 9270
Ion Ratio Lower Upper
164 100
162 100.0 79.4 119.2
160 43.1 36.7 55.1

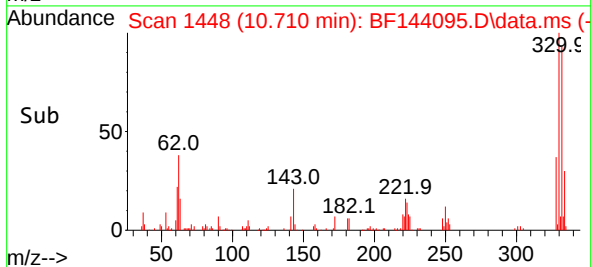
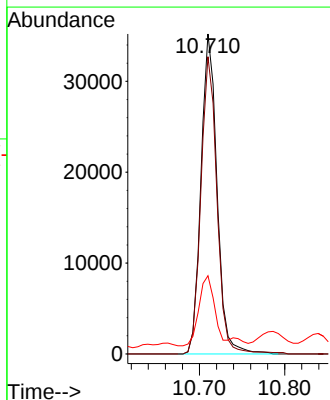
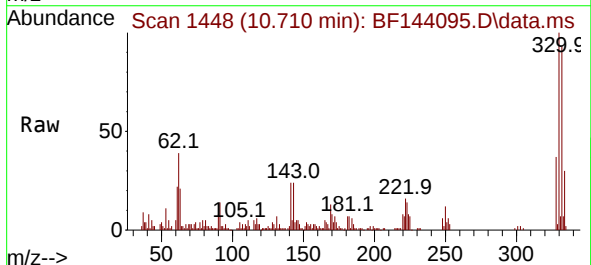
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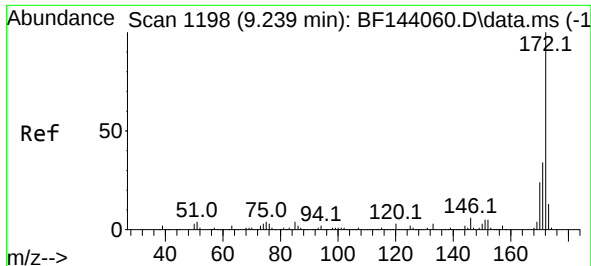
Reviewed By :Rahul Chavli 10/28/2025
Supervised By :mohammad ahmed 10/30/2025



#42
2,4,6-Tribromophenol
Concen: 39.020 ng
RT: 10.710 min Scan# 1448
Delta R.T. 0.000 min
Lab File: BF144095.D
Acq: 27 Oct 2025 21:02

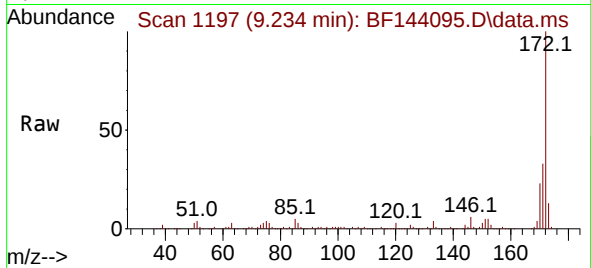
Tgt Ion:330 Resp: 46077
Ion Ratio Lower Upper
330 100
332 93.0 77.0 115.6
141 21.9 19.4 29.0





#45
2-Fluorobiphenyl
Concen: 29.951 ng
RT: 9.234 min Scan# 1198
Delta R.T. -0.006 min
Lab File: BF144095.D
Acq: 27 Oct 2025 21:02

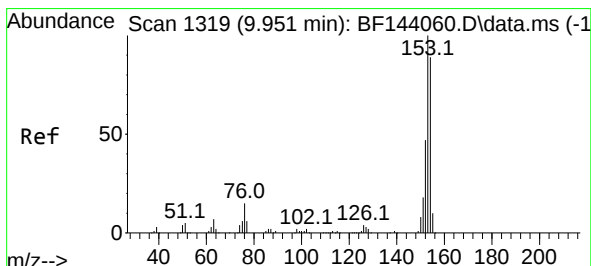
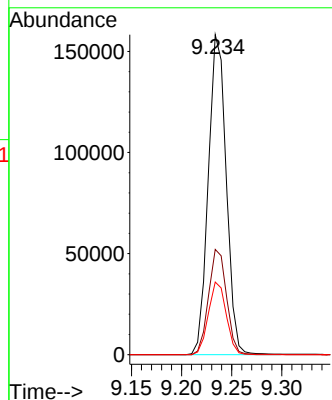
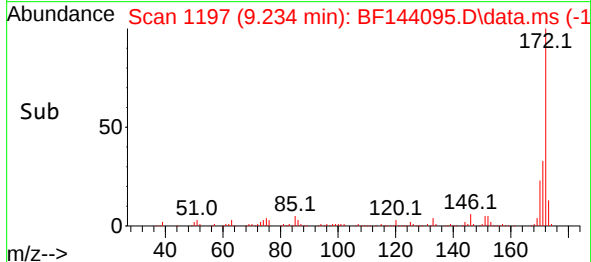
Instrument :
BNA_F
ClientSampleId :
P001-TW4-251023-01



Tgt Ion:172 Resp: 197300
Ion Ratio Lower Upper
172 100
171 32.9 27.5 41.3
170 22.7 19.0 28.6

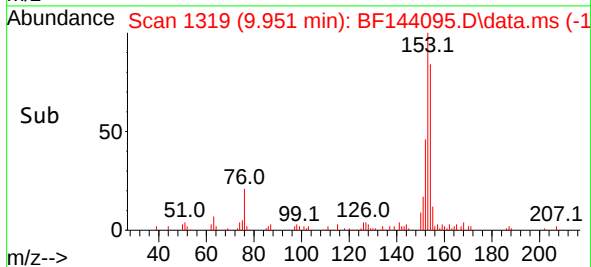
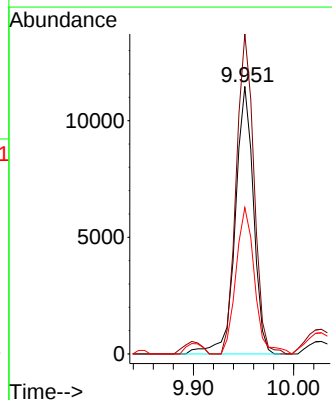
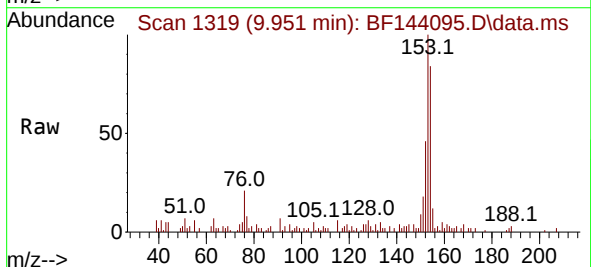
Manual Integrations
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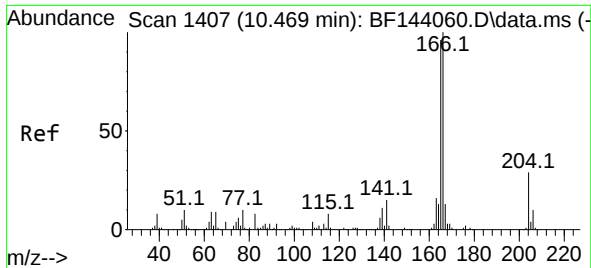
Reviewed By :Rahul Chavli 10/28/2025
Supervised By :mohammad ahmed 10/30/2025



#52
Acenaphthene
Concen: 2.896 ng
RT: 9.951 min Scan# 1319
Delta R.T. 0.000 min
Lab File: BF144095.D
Acq: 27 Oct 2025 21:02

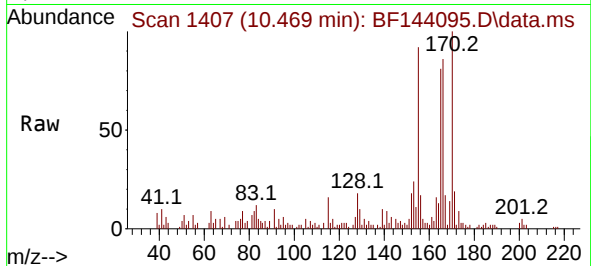
Tgt Ion:154 Resp: 14500
Ion Ratio Lower Upper
154 100
153 119.6 89.9 134.9
152 54.7 42.0 63.0





#58
Fluorene
Concen: 3.069 ng
RT: 10.469 min Scan# 1407
Delta R.T. 0.000 min
Lab File: BF144095.D
Acq: 27 Oct 2025 21:02

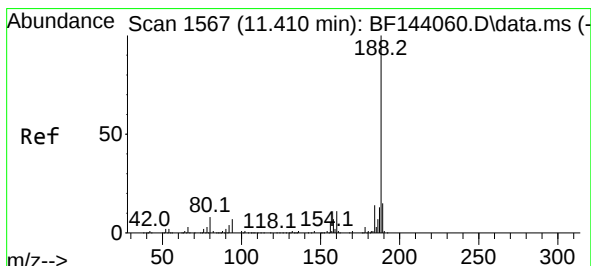
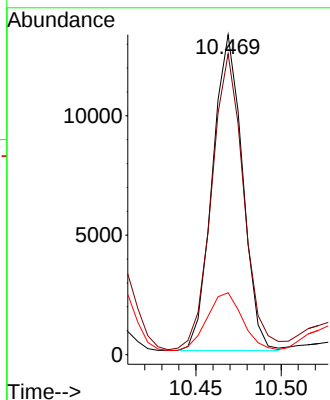
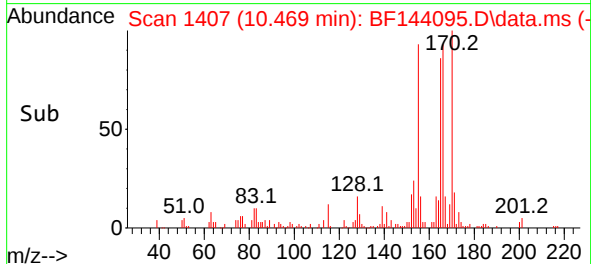
Instrument :
BNA_F
ClientSampleId :
P001-TW4-251023-01



Tgt Ion:166 Resp: 1625
Ion Ratio Lower Upper
166 100
165 94.0 77.0 115.4
167 19.4 10.2 15.4

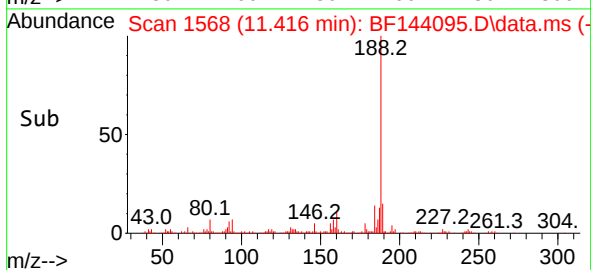
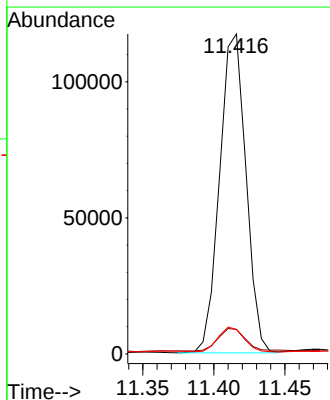
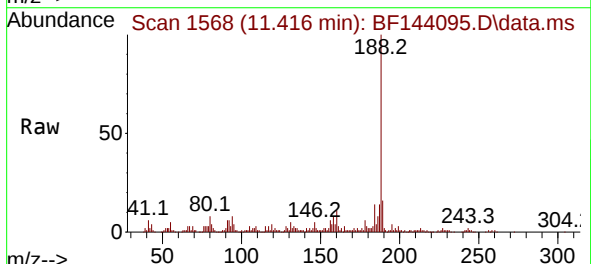
Manual Integrations
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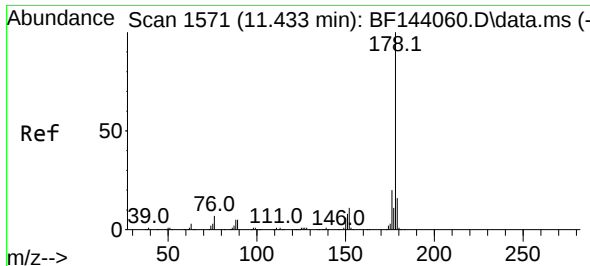
Reviewed By :Rahul Chavli 10/28/2025
Supervised By :mohammad ahmed 10/30/2025



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.416 min Scan# 1568
Delta R.T. 0.006 min
Lab File: BF144095.D
Acq: 27 Oct 2025 21:02

Tgt Ion:188 Resp: 151349
Ion Ratio Lower Upper
188 100
94 7.7 5.4 8.0
80 7.7 6.0 9.0





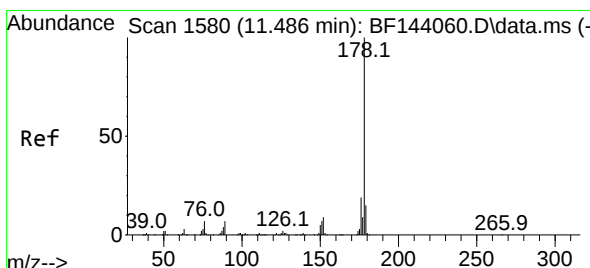
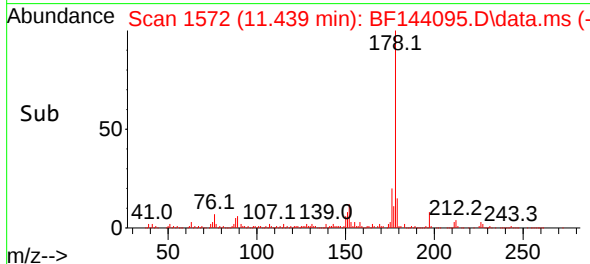
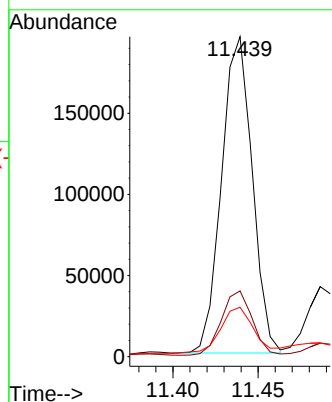
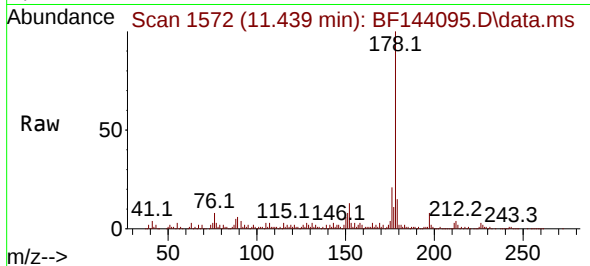
#71
Phenanthrene
Concen: 32.472 ng
RT: 11.439 min Scan# 11439
Delta R.T. 0.006 min
Lab File: BF144095.D
Acq: 27 Oct 2025 21:02

Instrument :
BNA_F
ClientSampleId :
P001-TW4-251023-01

Tgt Ion:178 Resp: 244138
Ion Ratio Lower Upper
178 100
176 20.5 16.3 24.5
179 15.5 12.6 18.8

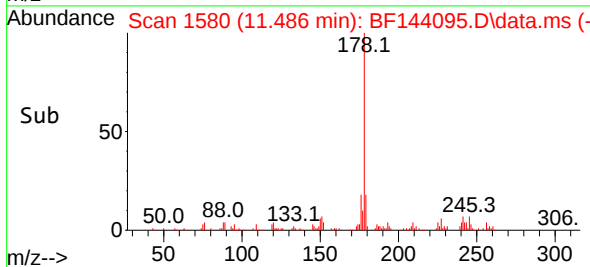
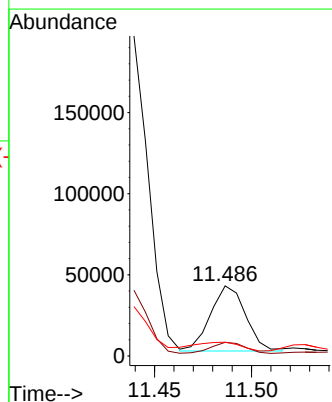
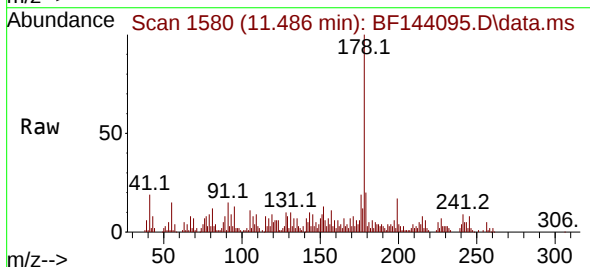
Manual Integrations
APPROVED

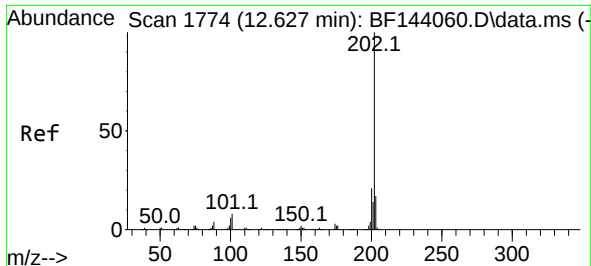
Reviewed By :Rahul Chavli 10/28/2025
Supervised By :mohammad ahmed 10/30/2025



#72
Anthracene
Concen: 6.528 ng m
RT: 11.486 min Scan# 1580
Delta R.T. 0.000 min
Lab File: BF144095.D
Acq: 27 Oct 2025 21:02

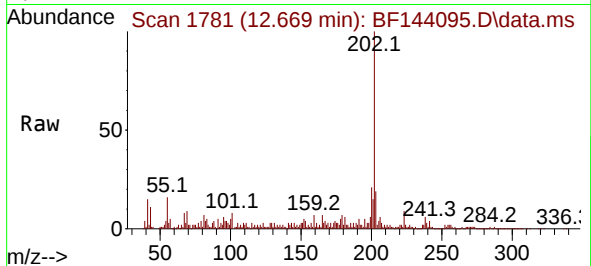
Tgt Ion:178 Resp: 50701
Ion Ratio Lower Upper
178 100
176 19.4 15.0 22.4
179 19.5 11.8 17.6#





#75
Fluoranthene
Concen: 33.344 ng
RT: 12.669 min Scan# 11
Delta R.T. 0.041 min
Lab File: BF144095.D
Acq: 27 Oct 2025 21:02

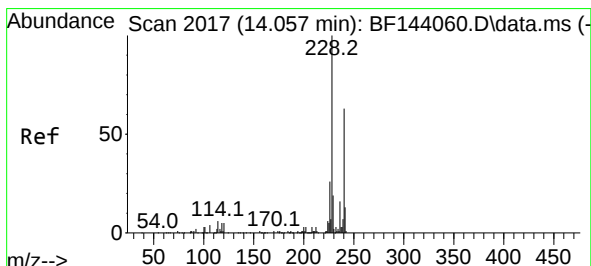
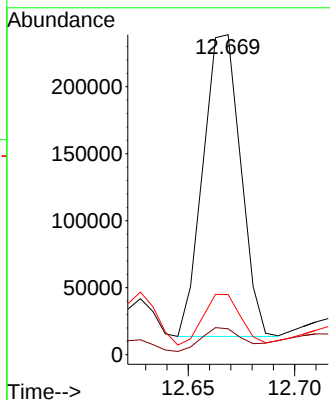
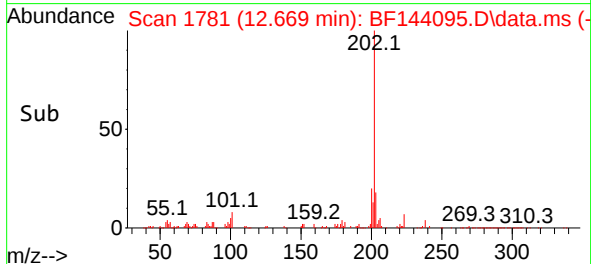
Instrument :
BNA_F
ClientSampleId :
P001-TW4-251023-01



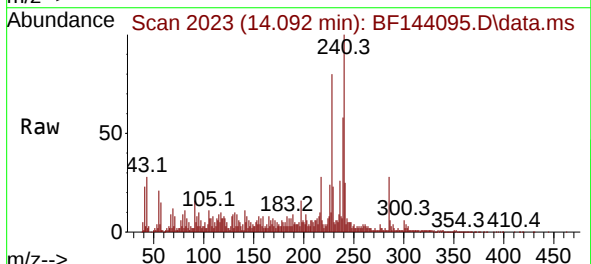
Tgt Ion:202 Resp: 276969
Ion Ratio Lower Upper
202 100
101 8.1 0.0 27.7
203 18.8 0.0 37.3

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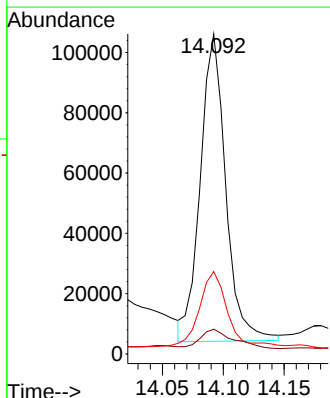
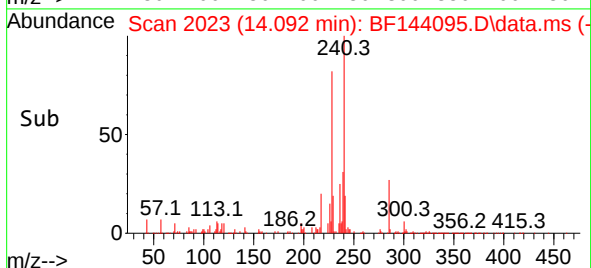
Reviewed By :Rahul Chavli 10/28/2025
Supervised By :mohammad ahmed 10/30/2025

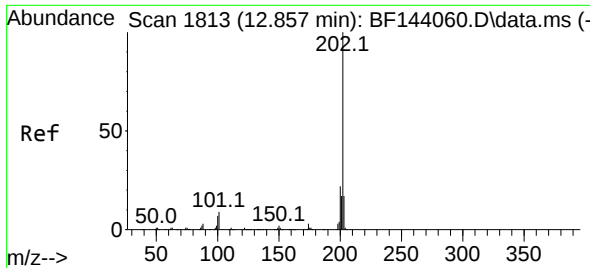


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.092 min Scan# 2023
Delta R.T. 0.036 min
Lab File: BF144095.D
Acq: 27 Oct 2025 21:02



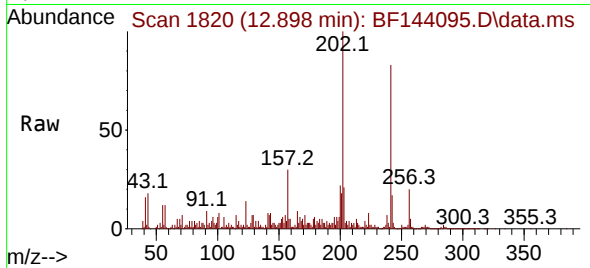
Tgt Ion:240 Resp: 148380
Ion Ratio Lower Upper
240 100
120 7.7 6.5 9.7
236 25.8 20.1 30.1





#78
 Pyrene
 Concen: 24.576 ng m
 RT: 12.898 min Scan# 1813
 Delta R.T. 0.041 min
 Lab File: BF144095.D
 Acq: 27 Oct 2025 21:02

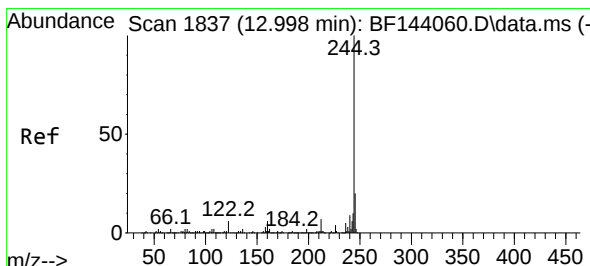
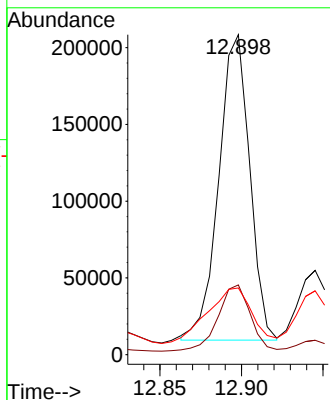
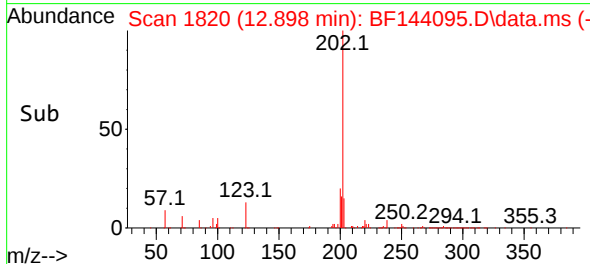
Instrument :
 BNA_F
 ClientSampleId :
 P001-TW4-251023-01



Tgt Ion:202 Resp: 262159
 Ion Ratio Lower Upper
 202 100
 200 21.8 17.2 25.8
 203 20.9 13.5 20.3

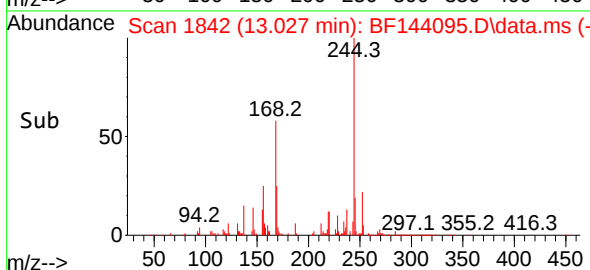
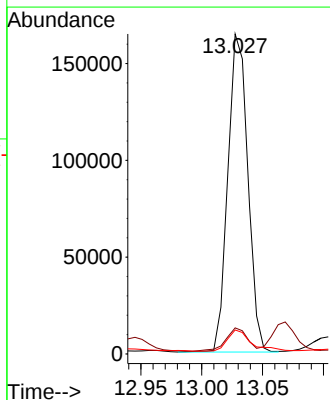
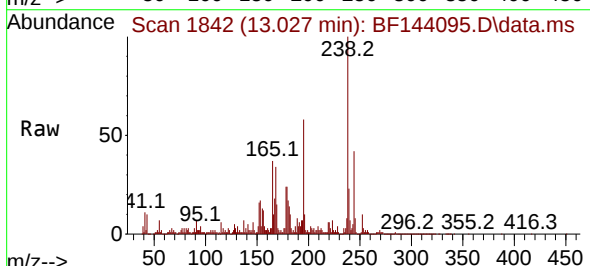
Manual Integrations
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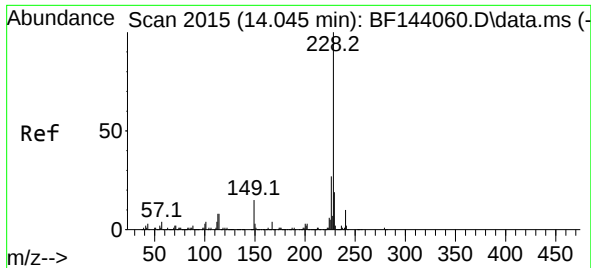
Reviewed By :Rahul Chavli 10/28/2025
 Supervised By :mohammad ahmed 10/30/2025



#79
 Terphenyl-d14
 Concen: 22.069 ng
 RT: 13.027 min Scan# 1842
 Delta R.T. 0.030 min
 Lab File: BF144095.D
 Acq: 27 Oct 2025 21:02

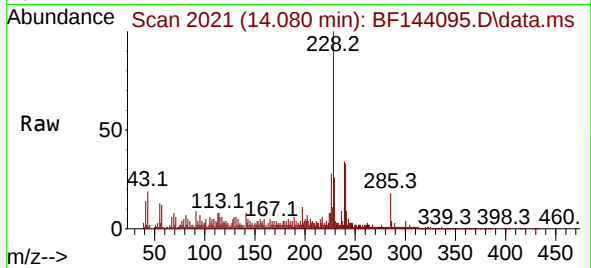
Tgt Ion:244 Resp: 187309
 Ion Ratio Lower Upper
 244 100
 212 8.1 5.8 8.6
 122 7.5 4.9 7.3





#81
Benzo(a)anthracene
Concen: 22.290 ng
RT: 14.080 min Scan# 2015
Delta R.T. 0.035 min
Lab File: BF144095.D
Acq: 27 Oct 2025 21:02

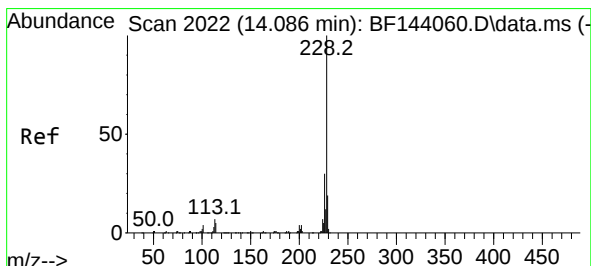
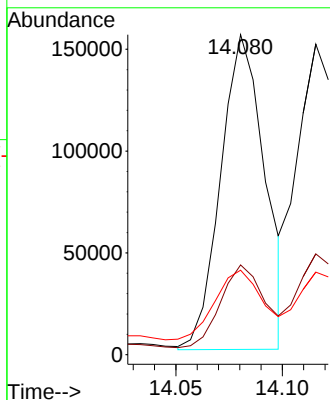
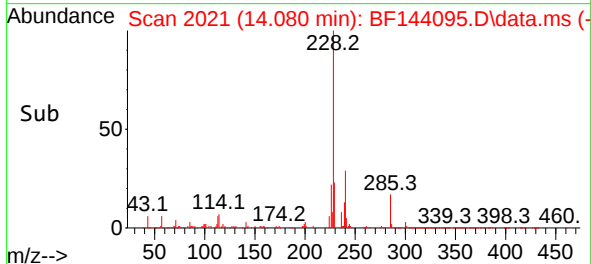
Instrument :
BNA_F
ClientSampleId :
P001-TW4-251023-01



Tgt Ion:228 Resp: 223519
Ion Ratio Lower Upper
228 100
226 28.1 21.4 32.2
229 26.4 15.3 22.9

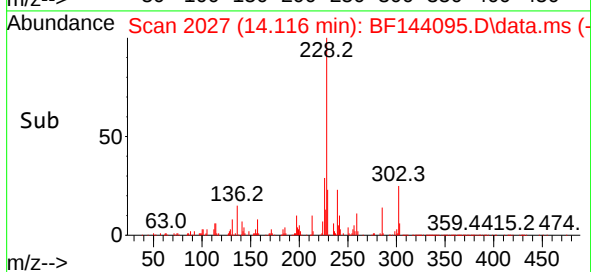
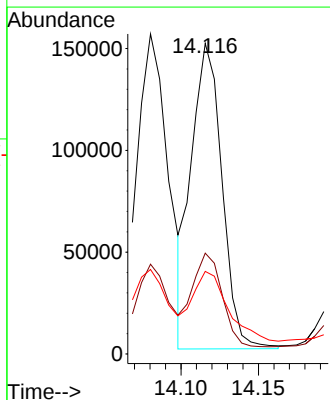
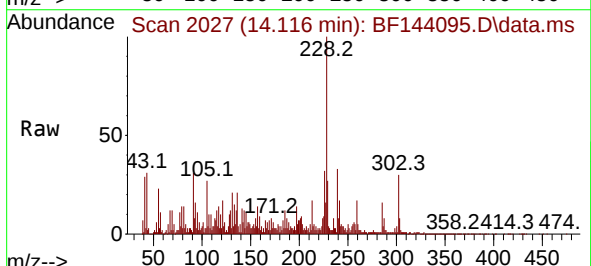
Manual Integrations
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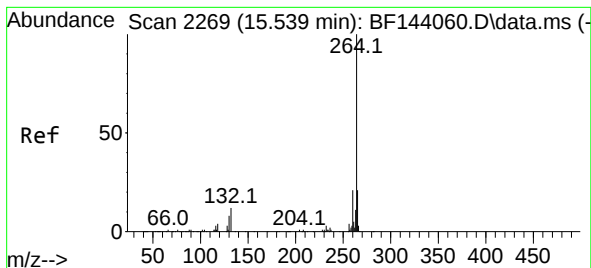
Reviewed By :Rahul Chavli 10/28/2025
Supervised By :mohammad ahmed 10/30/2025



#83
Chrysene
Concen: 21.947 ng
RT: 14.116 min Scan# 2027
Delta R.T. 0.030 min
Lab File: BF144095.D
Acq: 27 Oct 2025 21:02

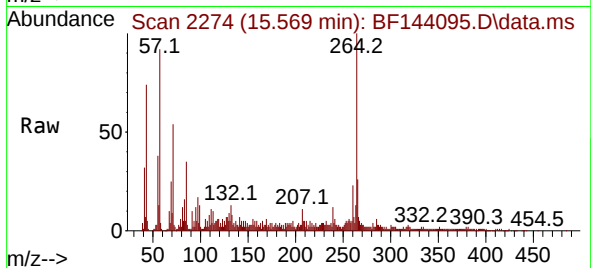
Tgt Ion:228 Resp: 206519
Ion Ratio Lower Upper
228 100
226 32.5 23.8 35.6
229 26.6 15.6 23.4





#86
Perylene-d12
Concen: 20.000 ng
RT: 15.569 min Scan# 21
Delta R.T. 0.030 min
Lab File: BF144095.D
Acq: 27 Oct 2025 21:02

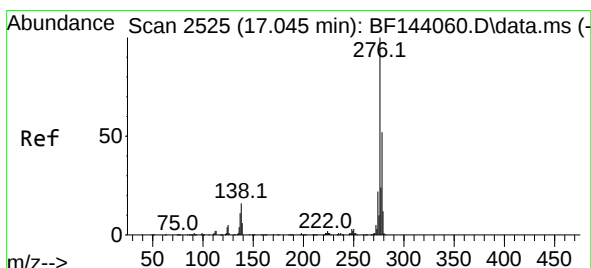
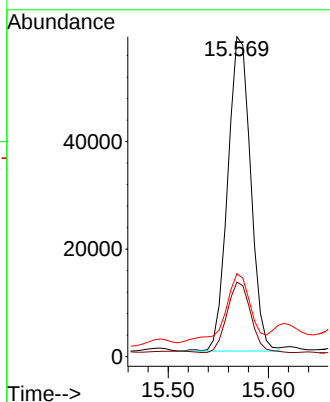
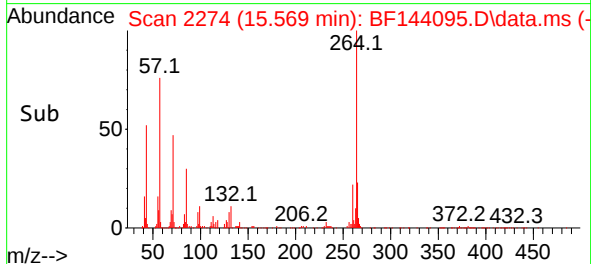
Instrument :
BNA_F
ClientSampleId :
P001-TW4-251023-01



Tgt Ion:264 Resp: 9272
Ion Ratio Lower Upper
264 100
260 23.3 17.0 25.4
265 25.9 16.6 24.8

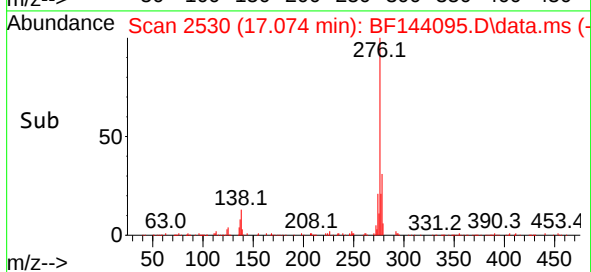
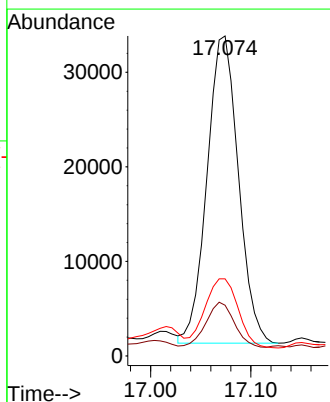
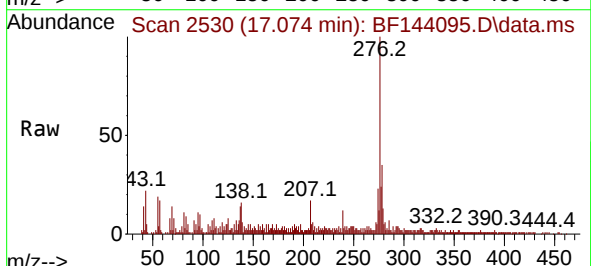
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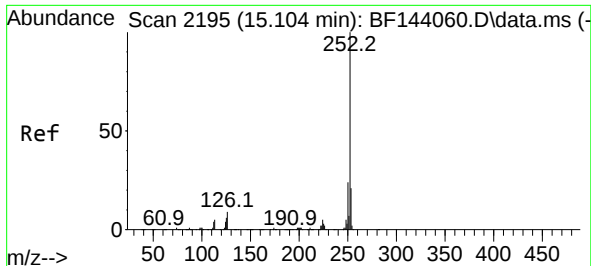
Reviewed By :Rahul Chavli 10/28/2025
Supervised By :mohammad ahmed 10/30/2025



#87
Indeno(1,2,3-cd)pyrene
Concen: 11.062 ng
RT: 17.074 min Scan# 2530
Delta R.T. 0.030 min
Lab File: BF144095.D
Acq: 27 Oct 2025 21:02

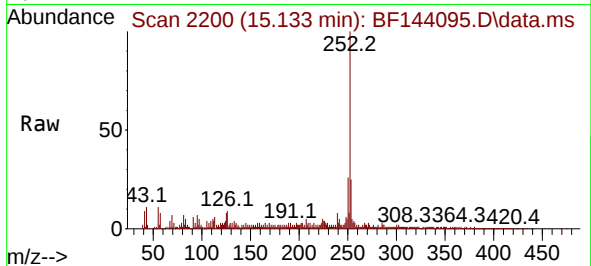
Tgt Ion:276 Resp: 70422
Ion Ratio Lower Upper
276 100
138 15.4 13.0 19.6
277 24.2 19.4 29.0





#88
Benzo(b)fluoranthene
Concen: 41.112 ng m
RT: 15.133 min Scan# 2195
Delta R.T. 0.030 min
Lab File: BF144095.D
Acq: 27 Oct 2025 21:02

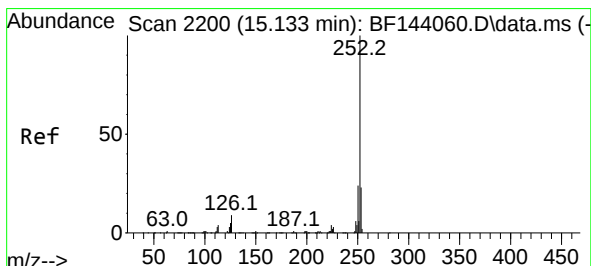
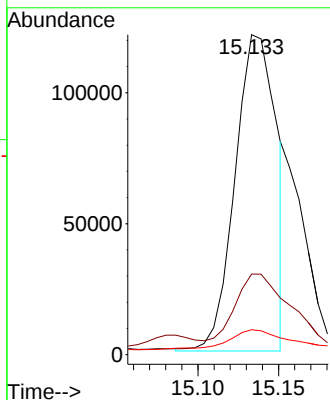
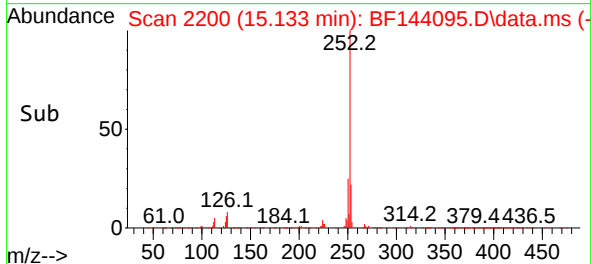
Instrument :
BNA_F
ClientSampleId :
P001-TW4-251023-01



Tgt Ion:252 Resp: 215514
Ion Ratio Lower Upper
252 100
253 25.2 17.2 25.8
125 7.8 5.0 7.6

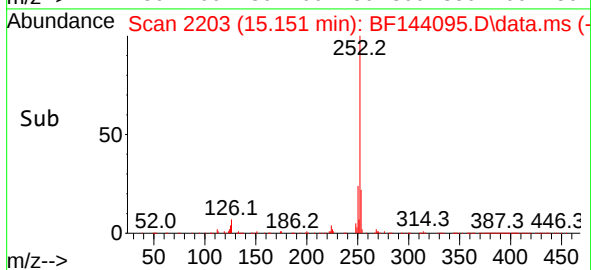
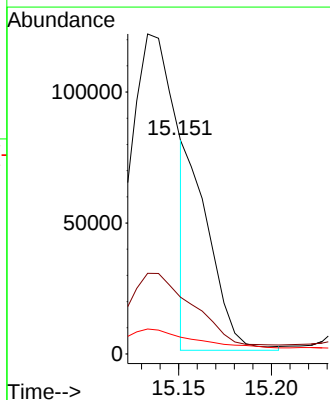
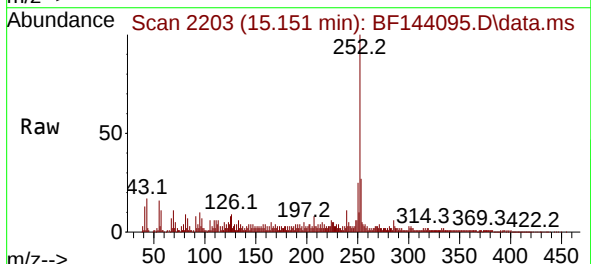
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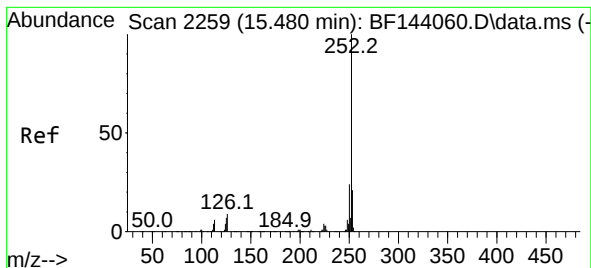
Reviewed By :Rahul Chavli 10/28/2025
Supervised By :mohammad ahmed 10/30/2025



#89
Benzo(k)fluoranthene
Concen: 14.391 ng m
RT: 15.151 min Scan# 2203
Delta R.T. 0.018 min
Lab File: BF144095.D
Acq: 27 Oct 2025 21:02

Tgt Ion:252 Resp: 69604
Ion Ratio Lower Upper
252 100
253 26.6 17.4 26.2#
125 7.8 4.9 7.3#





#90

Benzo(a)pyrene

Concen: 28.631 ng

RT: 15.510 min Scan# 21

Delta R.T. 0.030 min

Lab File: BF144095.D

Acq: 27 Oct 2025 21:02

Instrument :

BNA_F

ClientSampleId :

P001-TW4-251023-01

Tgt Ion:252 Resp: 13464

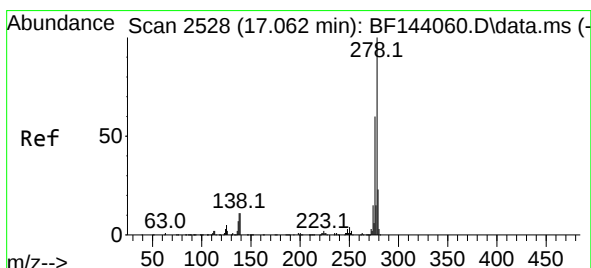
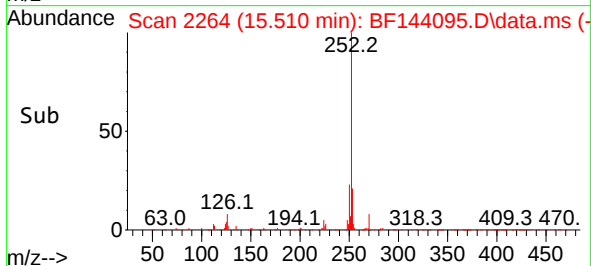
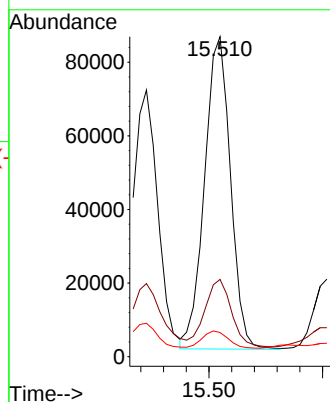
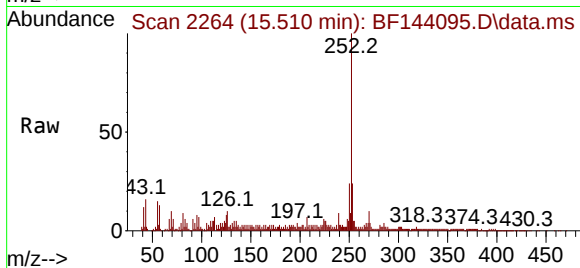
Ion	Ratio	Lower	Upper
252	100		
253	24.2	17.1	25.7
125	7.5	5.4	8.2

Manual Integrations

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Reviewed By :Rahul Chavli 10/28/2025

Supervised By :mohammad ahmed 10/30/2025



#91

Dibenzo(a,h)anthracene

Concen: 5.380 ng

RT: 17.080 min Scan# 2531

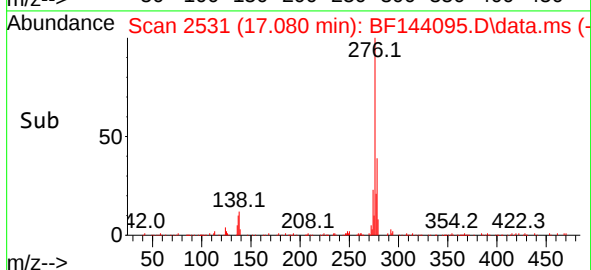
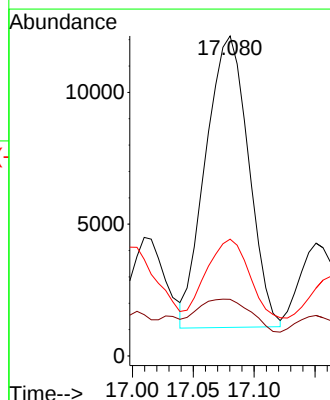
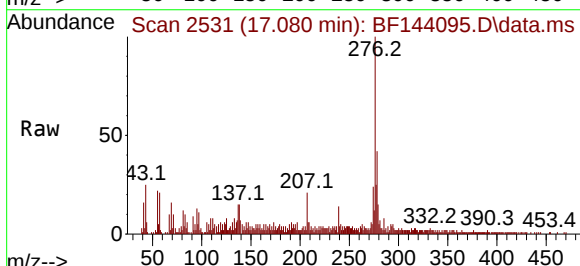
Delta R.T. 0.018 min

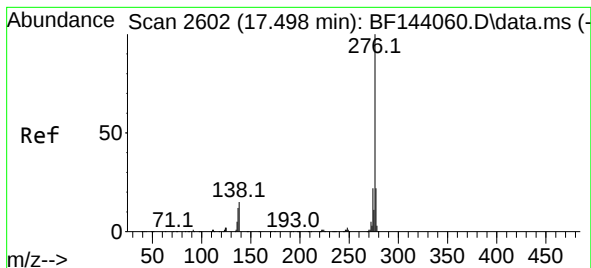
Lab File: BF144095.D

Acq: 27 Oct 2025 21:02

Tgt Ion:278 Resp: 27110

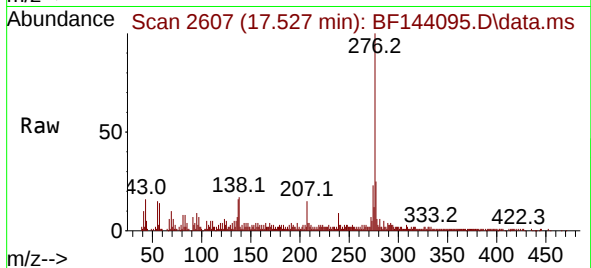
Ion	Ratio	Lower	Upper
278	100		
139	17.7	8.5	12.7#
279	36.5	18.6	28.0#





#92
Benzo(g,h,i)perylene
Concen: 17.372 ng
RT: 17.527 min Scan# 20
Delta R.T. 0.030 min
Lab File: BF144095.D
Acq: 27 Oct 2025 21:02

Instrument :
BNA_F
ClientSampleId :
P001-TW4-251023-01



Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.8	17.9	26.9
138	17.4	12.0	18.0

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

