

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF071224\
 Data File : BF138560.D
 Acq On : 12 Jul 2024 22:10
 Operator : CG\JU
 Sample : P3211-03 5X
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TR-05-07102024

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 07/13/2024
 Supervised By :mohammad ahmed 07/19/2024

Quant Time: Jul 12 23:15:15 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF070924.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jul 09 16:58:40 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.869	152	89533	20.000	ng	0.00
21) Naphthalene-d8	8.145	136	388986	20.000	ng	# 0.00
39) Acenaphthene-d10	9.904	164	183330	20.000	ng	0.00
64) Phenanthrene-d10	11.386	188	333176	20.000	ng	0.00
76) Chrysene-d12	14.027	240	149367	20.000	ng	0.00
86) Perylene-d12	15.498	264	172358	20.000	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.487	112	92393	16.343	ng	0.00
7) Phenol-d6	6.498	99	117564	15.633	ng	0.00
23) Nitrobenzene-d5	7.422	82	83582	10.550	ng	-0.01
42) 2,4,6-Tribromophenol	10.686	330	26096	15.231	ng	0.00
45) 2-Fluorobiphenyl	9.222	172	142859	12.179	ng	0.00
79) Terphenyl-d14	12.969	244	152383	16.620	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.169	128	509984	25.209	ng	99
37) 2-Methylnaphthalene	8.857	142	229249	17.609	ng	98
38) 1-Methylnaphthalene	8.957	142	149550	11.770	ng	99
46) 1,1'-Biphenyl	9.322	154	43997	3.167	ng	98
49) Acenaphthylene	9.763	152	43090	2.892	ng	# 94
52) Acenaphthene	9.934	154	118914	12.005	ng	99
55) Dibenzofuran	10.104	168	152862	10.639	ng	96
58) Fluorene	10.451	166	222325	19.556	ng	98
71) Phenanthrene	11.416	178	954902	56.730	ng	99
72) Anthracene	11.463	178	325639	19.489	ng	100
73) Carbazole	11.616	167	91446	6.090	ng	98
75) Fluoranthene	12.604	202	842525	49.054	ng	98
78) Pyrene	12.833	202	767558	50.621	ng	99
81) Benzo(a)anthracene	14.016	228	247272	24.672	ng	96
83) Chrysene	14.051	228	207490	21.884	ng	98
87) Indeno(1,2,3-cd)pyrene	16.968	276	106403	9.191	ng	97
88) Benzo(b)fluoranthene	15.068	252	284208m	29.280	ng	
89) Benzo(k)fluoranthene	15.092	252	71423m	7.545	ng	
90) Benzo(a)pyrene	15.433	252	204227	23.951	ng	97
91) Dibenzo(a,h)anthracene	16.974	278	29838	3.151	ng	# 73
92) Benzo(g,h,i)perylene	17.415	276	103857	10.342	ng	# 95

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

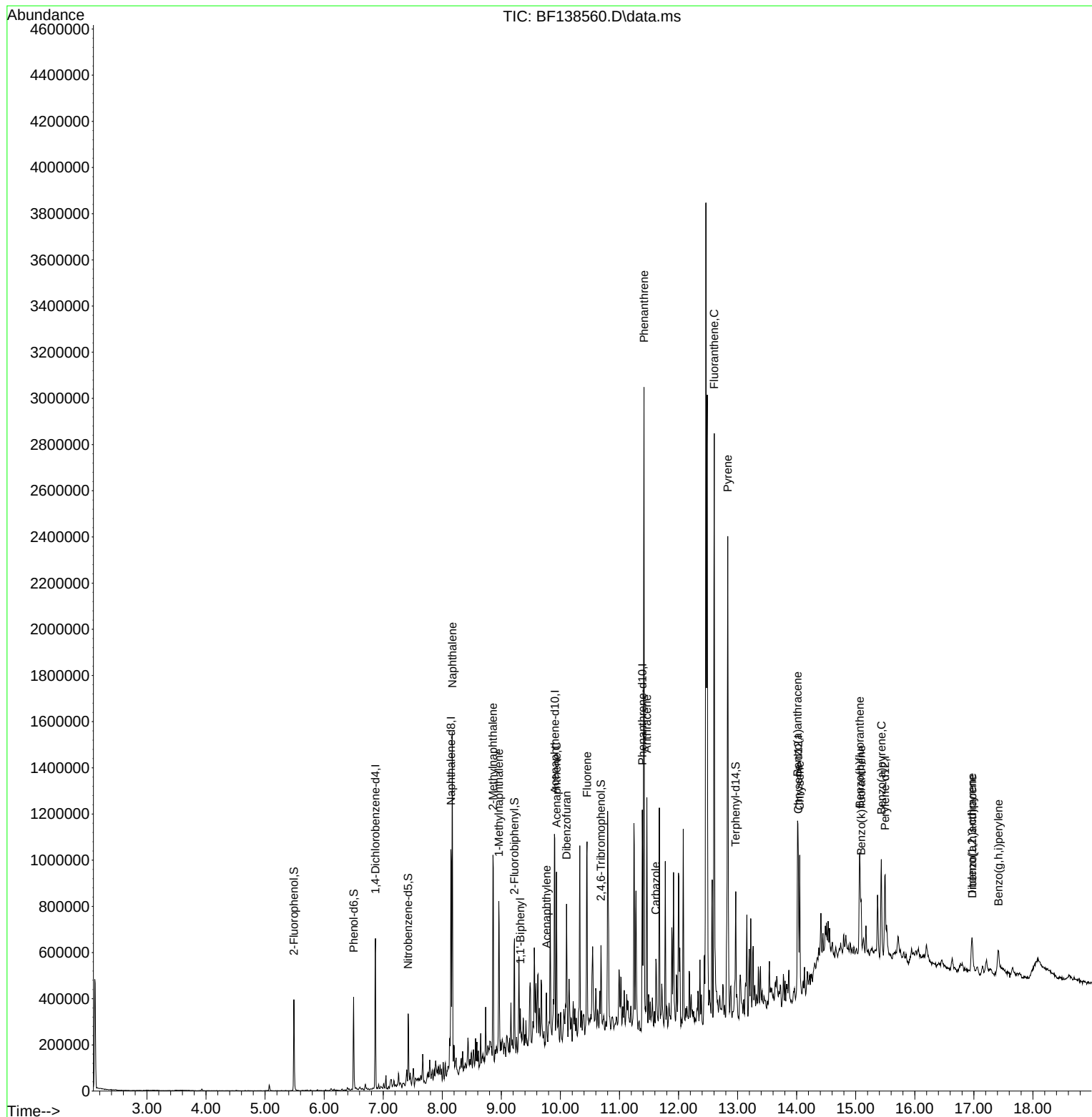
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF071224\
Data File : BF138560.D
Acq On : 12 Jul 2024 22:10
Operator : CG\JU
Sample : P3211-03 5X
Misc :
ALS Vial : 22 Sample Multiplier: 1

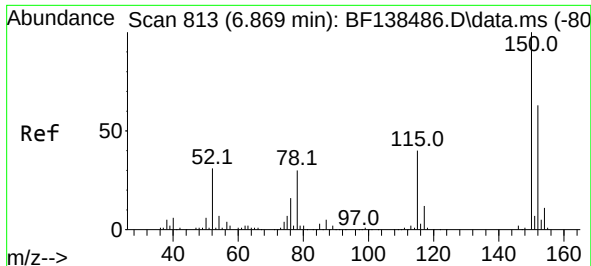
Instrument :
BNA_F
ClientSampleId :
TR-05-07102024

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Supervised By :mohammad ahmed 07/19/2024

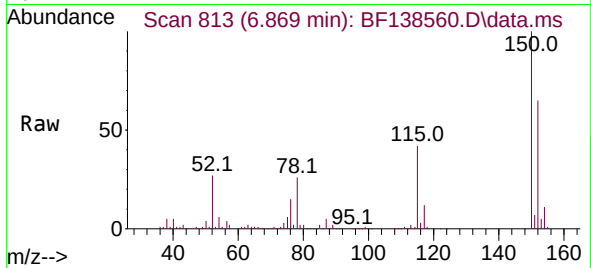
Quant Time: Jul 12 23:15:15 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF070924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 09 16:58:40 2024
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.869 min Scan# 813
Delta R.T. -0.000 min
Lab File: BF138560.D
Acq: 12 Jul 2024 22:10

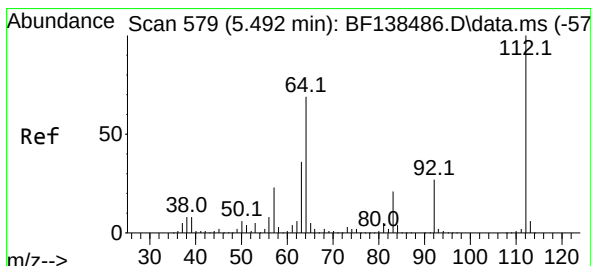
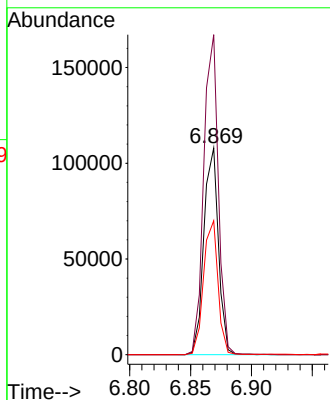
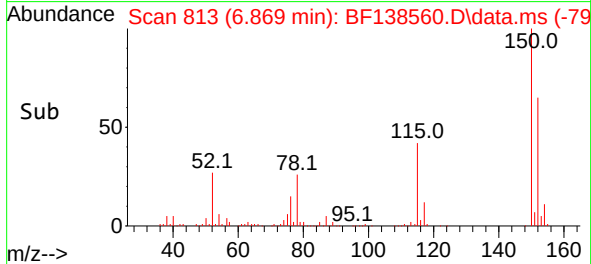
Instrument :
BNA_F
ClientSampleId :
TR-05-07102024



Tgt Ion:152 Resp: 89533
Ion Ratio Lower Upper
152 100
150 154.8 126.2 189.4
115 64.7 50.3 75.5

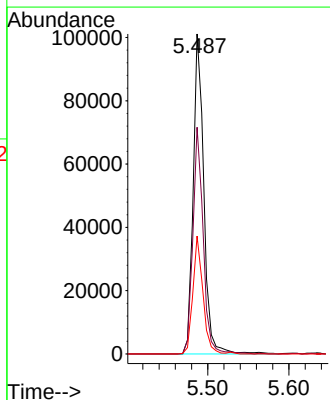
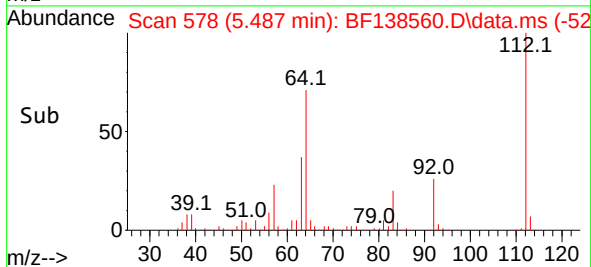
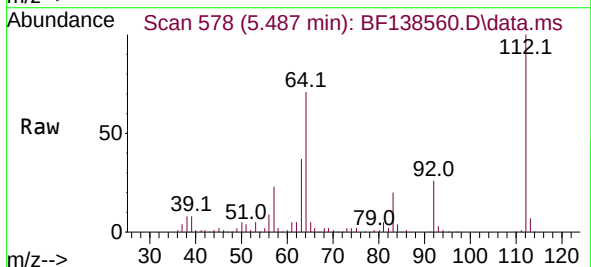
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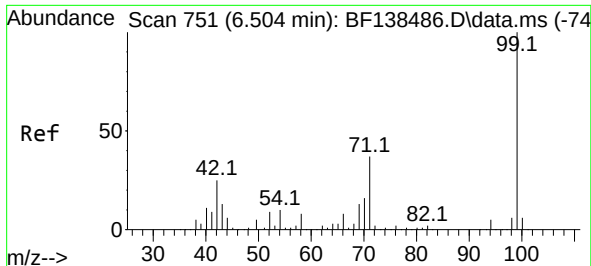
Reviewed By :Yogesh Patel 07/13/2024
Supervised By :mohammad ahmed 07/19/2024



#5
2-Fluorophenol
Concen: 16.343 ng
RT: 5.487 min Scan# 578
Delta R.T. -0.006 min
Lab File: BF138560.D
Acq: 12 Jul 2024 22:10

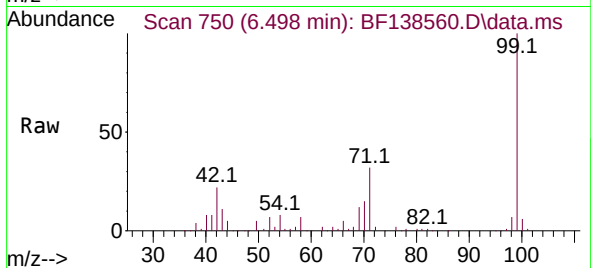
Tgt Ion:112 Resp: 92393
Ion Ratio Lower Upper
112 100
64 70.9 55.1 82.7
63 36.9 29.0 43.6





#7
Phenol-d6
Concen: 15.633 ng
RT: 6.498 min Scan# 71
Delta R.T. -0.006 min
Lab File: BF138560.D
Acq: 12 Jul 2024 22:10

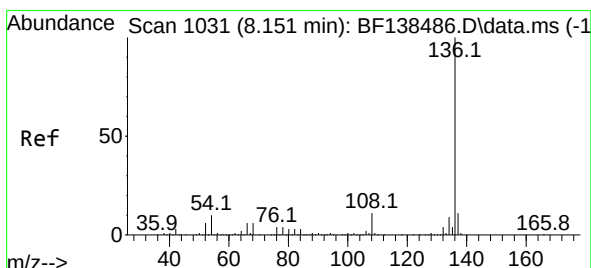
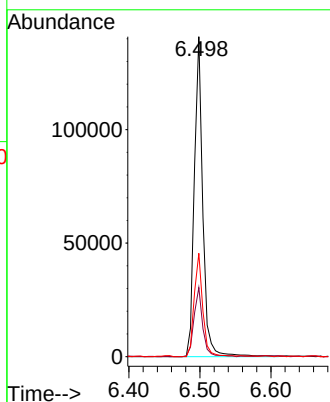
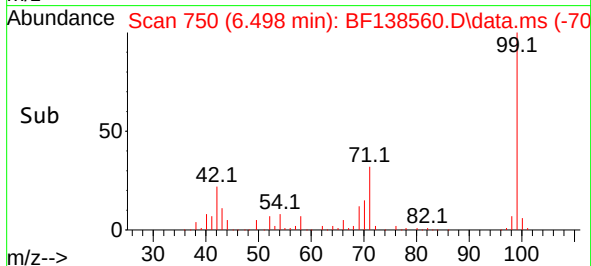
Instrument :
BNA_F
ClientSampleId :
TR-05-07102024



Tgt Ion: 99 Resp: 117564
Ion Ratio Lower Upper
99 100
42 21.6 19.7 29.5
71 32.3 29.9 44.9

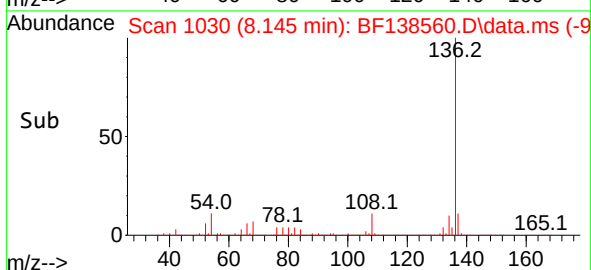
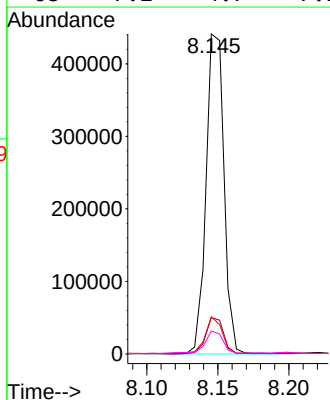
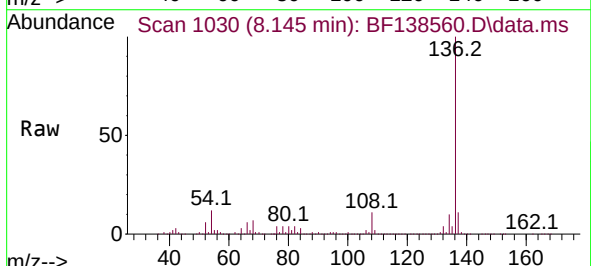
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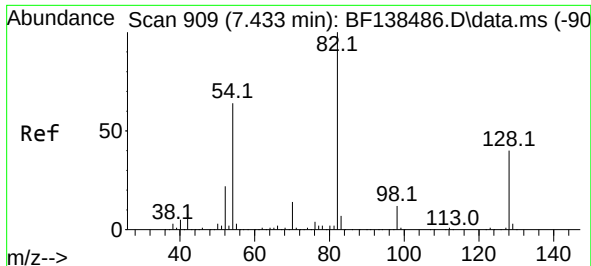
Reviewed By :Yogesh Patel 07/13/2024
Supervised By :mohammad ahmed 07/19/2024



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.145 min Scan# 1030
Delta R.T. -0.006 min
Lab File: BF138560.D
Acq: 12 Jul 2024 22:10

Tgt Ion:136 Resp: 388986
Ion Ratio Lower Upper
136 100
137 11.4 8.5 12.7
54 11.6 8.1 12.1
68 7.2 4.7 7.1#





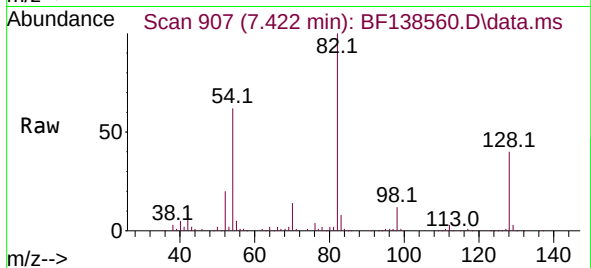
#23
Nitrobenzene-d5
Concen: 10.550 ng
RT: 7.422 min Scan# 909
Delta R.T. -0.012 min
Lab File: BF138560.D
Acq: 12 Jul 2024 22:10

Instrument :

BNA_F

ClientSampleId :

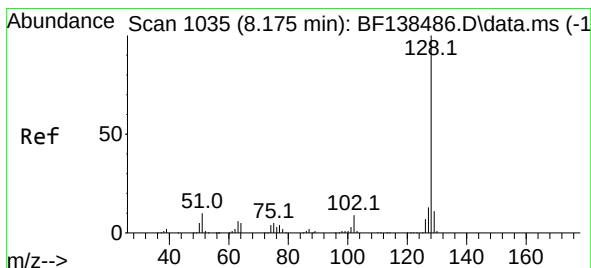
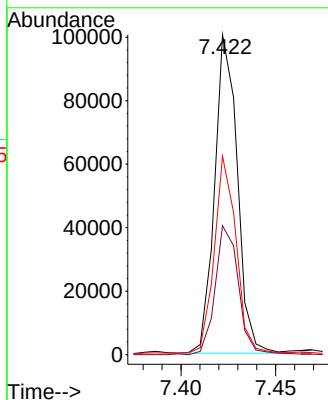
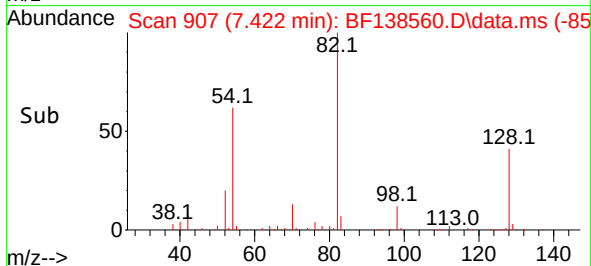
TR-05-07102024



Tgt Ion: 82 Resp: 83582
Ion Ratio Lower Upper
82 100
128 40.3 32.3 48.5
54 62.1 51.4 77.0

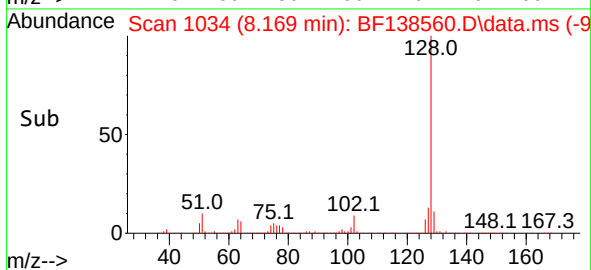
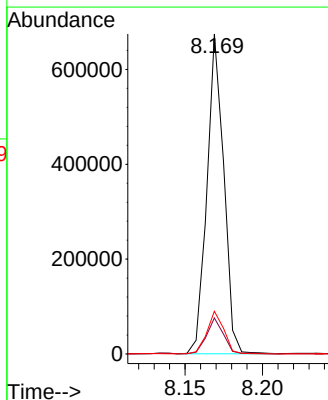
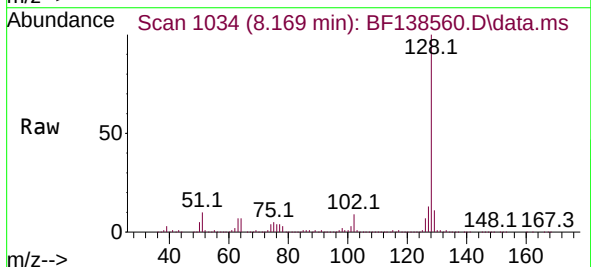
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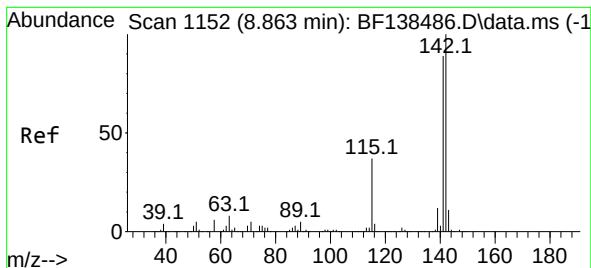
Reviewed By :Yogesh Patel 07/13/2024
Supervised By :mohammad ahmed 07/19/2024



#31
Naphthalene
Concen: 25.209 ng
RT: 8.169 min Scan# 1034
Delta R.T. -0.006 min
Lab File: BF138560.D
Acq: 12 Jul 2024 22:10

Tgt Ion:128 Resp: 509984
Ion Ratio Lower Upper
128 100
129 11.2 8.6 13.0
127 13.4 10.7 16.1





#37

2-Methylnaphthalene

Concen: 17.609 ng

RT: 8.857 min Scan# 1151

Delta R.T. -0.006 min

Lab File: BF138560.D

Acq: 12 Jul 2024 22:10

Instrument :

BNA_F

ClientSampleId :

TR-05-07102024

Tgt Ion:142 Resp: 229249

Ion Ratio Lower Upper

142 100

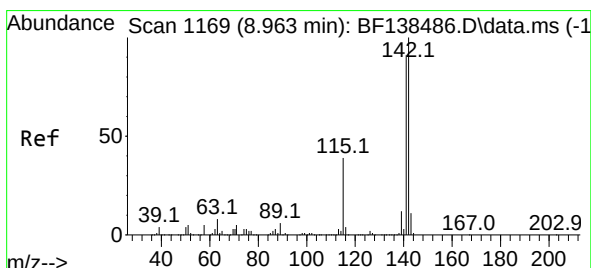
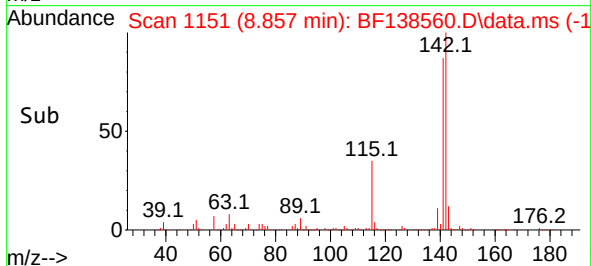
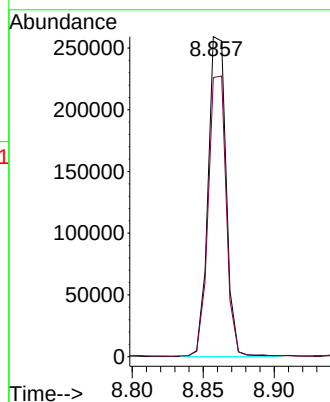
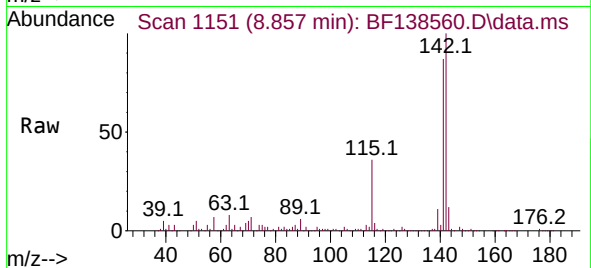
141 87.2 71.4 107.0

Manual Integrations

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Reviewed By :Yogesh Patel 07/13/2024

Supervised By :mohammad ahmed 07/19/2024



#38

1-Methylnaphthalene

Concen: 11.770 ng

RT: 8.957 min Scan# 1168

Delta R.T. -0.006 min

Lab File: BF138560.D

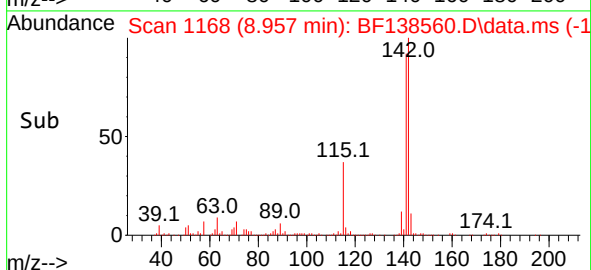
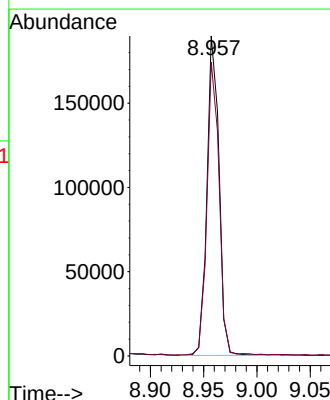
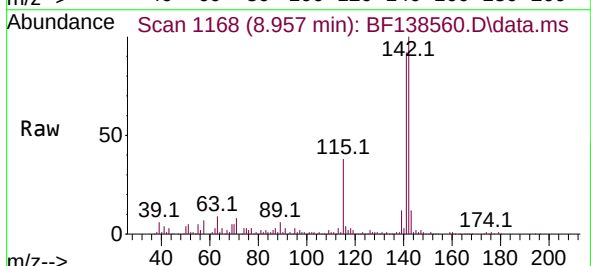
Acq: 12 Jul 2024 22:10

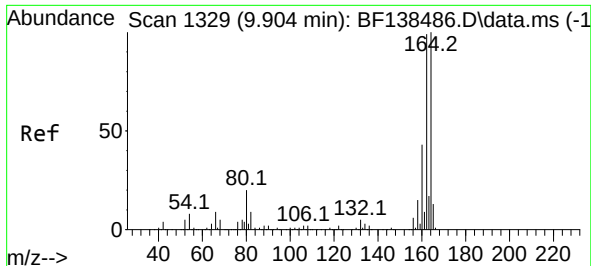
Tgt Ion:142 Resp: 149550

Ion Ratio Lower Upper

142 100

141 91.8 72.6 108.8





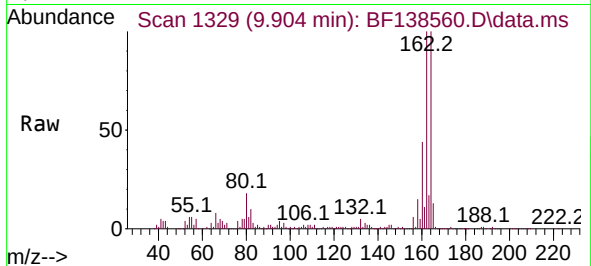
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.904 min Scan# 1329
Delta R.T. 0.000 min
Lab File: BF138560.D
Acq: 12 Jul 2024 22:10

Instrument :

BNA_F

ClientSampleId :

TR-05-07102024



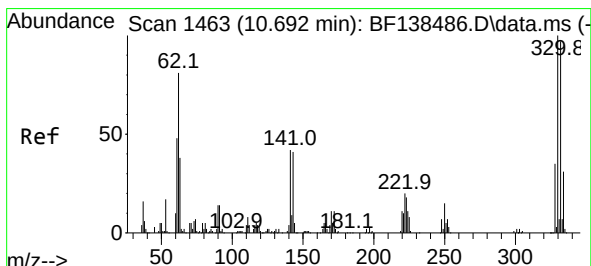
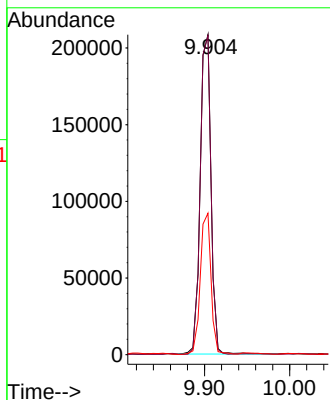
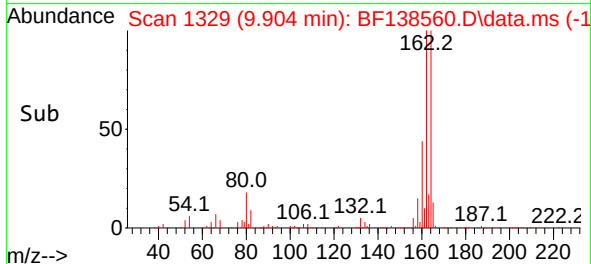
Tgt Ion:164 Resp: 183330
Ion Ratio Lower Upper
164 100
162 99.7 79.0 118.6
160 44.2 34.4 51.6

Manual Integrations

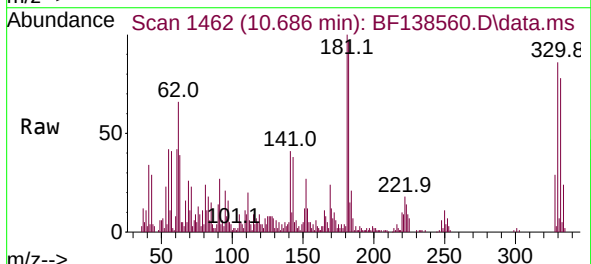
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Reviewed By :Yogesh Patel 07/13/2024

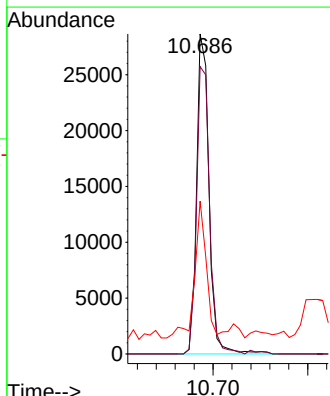
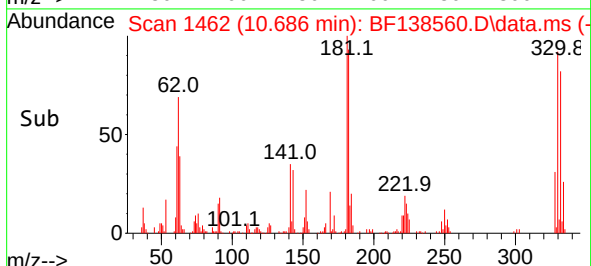
Supervised By :mohammad ahmed 07/19/2024

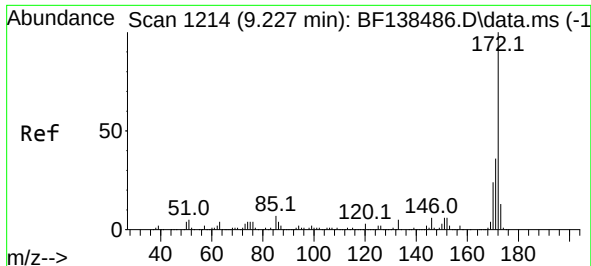


#42
2,4,6-Tribromophenol
Concen: 15.231 ng
RT: 10.686 min Scan# 1462
Delta R.T. -0.006 min
Lab File: BF138560.D
Acq: 12 Jul 2024 22:10



Tgt Ion:330 Resp: 26096
Ion Ratio Lower Upper
330 100
332 93.9 76.8 115.2
141 40.8 29.4 44.2





#45

2-Fluorobiphenyl

Concen: 12.179 ng

RT: 9.222 min Scan# 1213

Delta R.T. -0.006 min

Lab File: BF138560.D

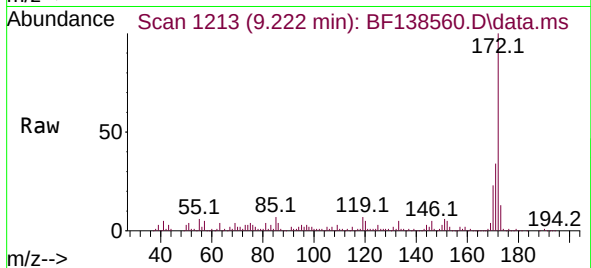
Acq: 12 Jul 2024 22:10

Instrument :

BNA_F

ClientSampleId :

TR-05-07102024



Tgt Ion:172 Resp: 142859

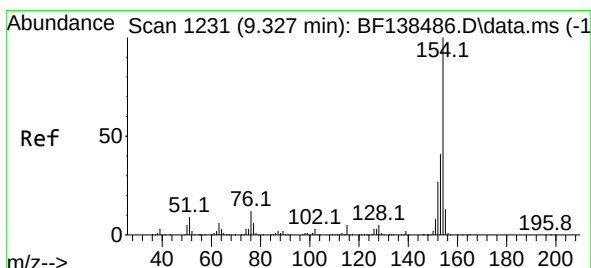
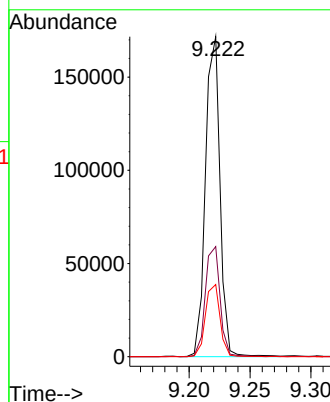
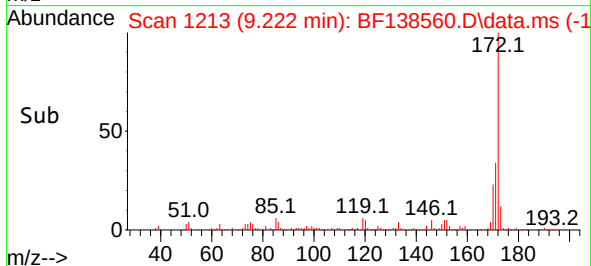
Ion	Ratio	Lower	Upper
172	100		
171	34.4	28.9	43.3
170	22.6	18.9	28.3

Manual Integrations

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Supervised By :mohammad ahmed 07/19/2024



#46

1,1'-Biphenyl

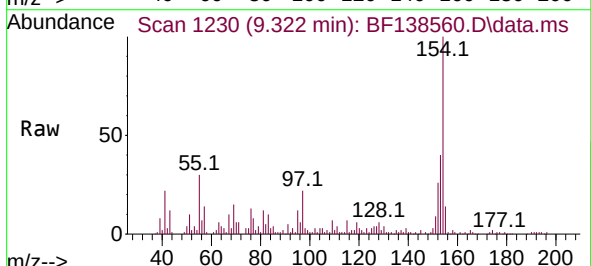
Concen: 3.167 ng

RT: 9.322 min Scan# 1230

Delta R.T. -0.006 min

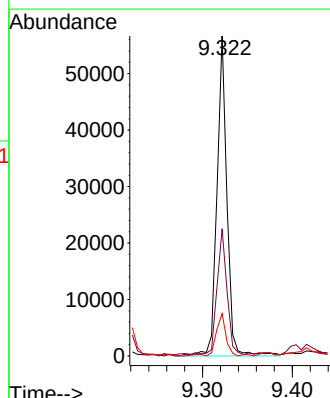
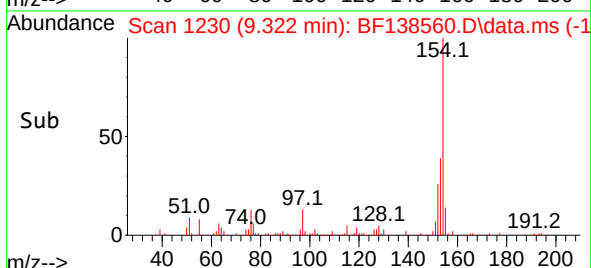
Lab File: BF138560.D

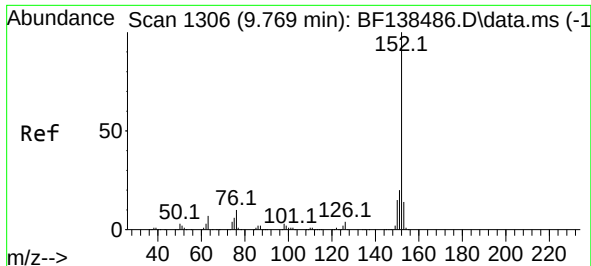
Acq: 12 Jul 2024 22:10



Tgt Ion:154 Resp: 43997

Ion	Ratio	Lower	Upper
154	100		
153	39.7	20.7	60.7
76	13.3	0.0	32.2





#49

Acenaphthylene

Concen: 2.892 ng

RT: 9.763 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF138560.D

Acq: 12 Jul 2024 22:10

Instrument :

BNA_F

ClientSampleId :

TR-05-07102024

Tgt Ion:152 Resp: 43090

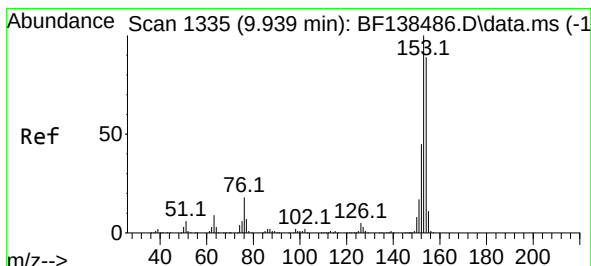
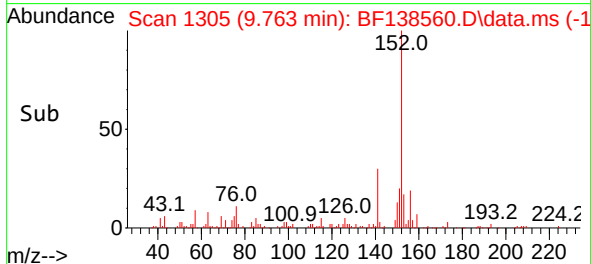
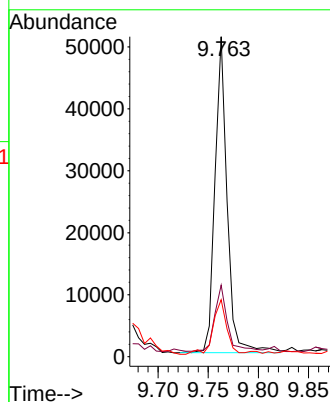
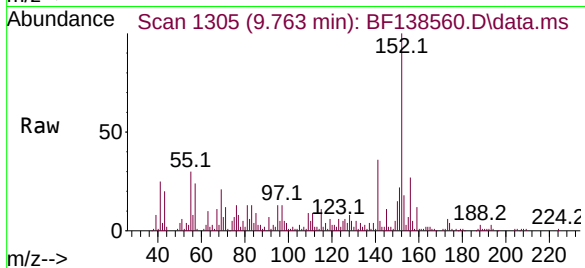
Ion	Ratio	Lower	Upper
152	100		
151	22.4	16.3	24.5
153	17.8	11.3	16.9

Manual Integrations

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Reviewed By :Yogesh Patel 07/13/2024

Supervised By :mohammad ahmed 07/19/2024



#52

Acenaphthene

Concen: 12.005 ng

RT: 9.934 min Scan# 1334

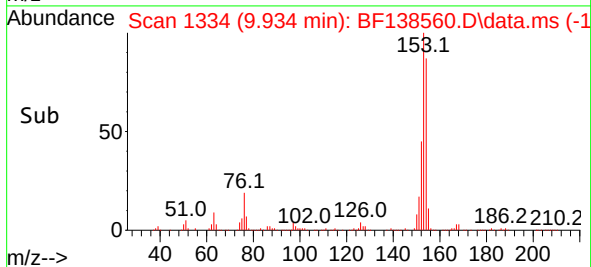
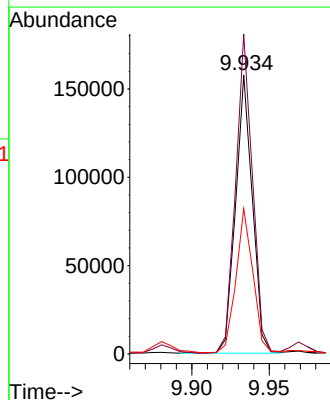
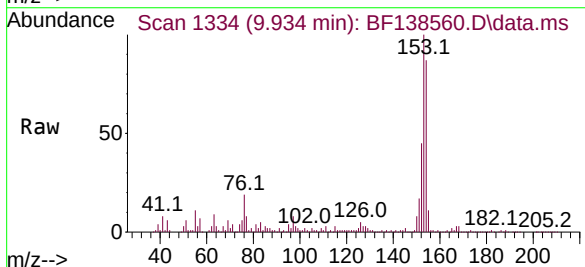
Delta R.T. -0.006 min

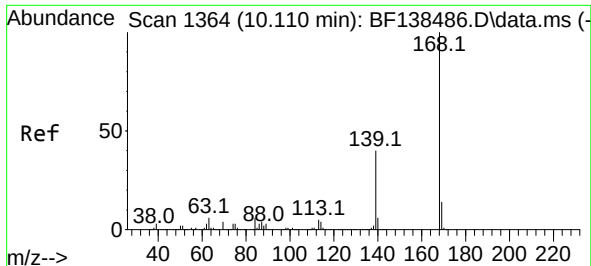
Lab File: BF138560.D

Acq: 12 Jul 2024 22:10

Tgt Ion:154 Resp: 118914

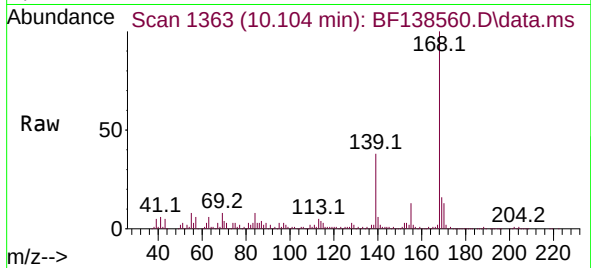
Ion	Ratio	Lower	Upper
154	100		
153	114.7	90.4	135.6
152	52.1	41.1	61.7





#55
Dibenzenofuran
Concen: 10.639 ng
RT: 10.104 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF138560.D
Acq: 12 Jul 2024 22:10

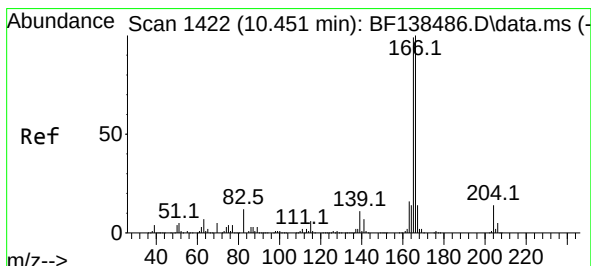
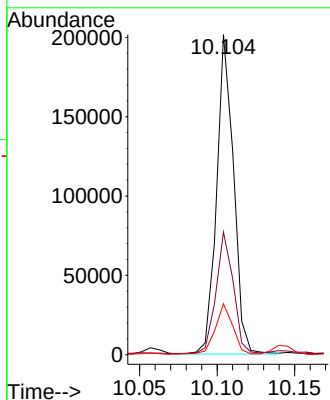
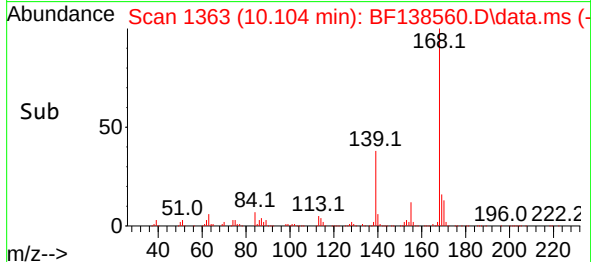
Instrument :
BNA_F
ClientSampleId :
TR-05-07102024



Tgt Ion:168 Resp: 152862
Ion Ratio Lower Upper
168 100
139 38.4 32.4 48.6
169 15.9 10.9 16.3

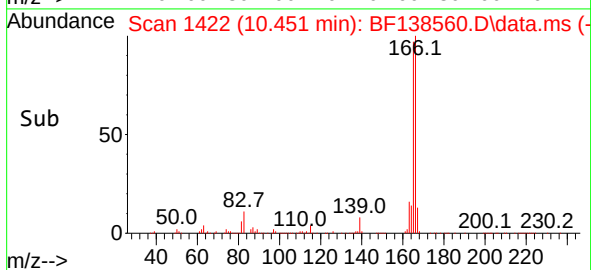
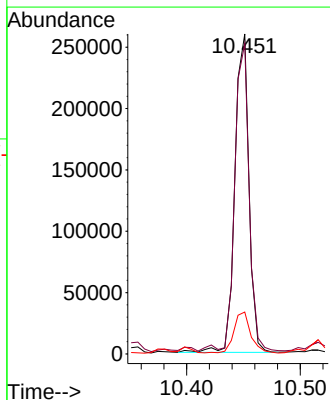
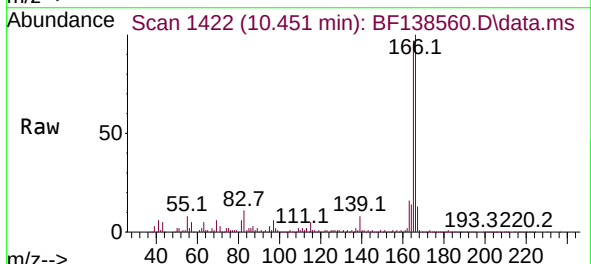
Manual Integrations
APPROVED

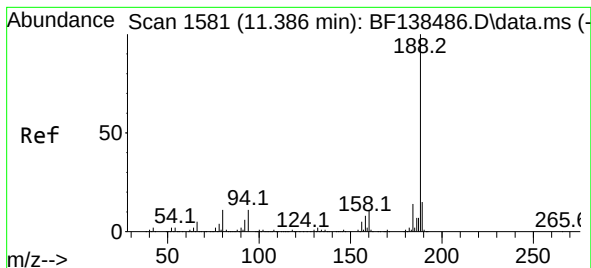
Reviewed By :Yogesh Patel 07/13/2024
Supervised By :mohammad ahmed 07/19/2024



#58
Fluorene
Concen: 19.556 ng
RT: 10.451 min Scan# 1422
Delta R.T. 0.000 min
Lab File: BF138560.D
Acq: 12 Jul 2024 22:10

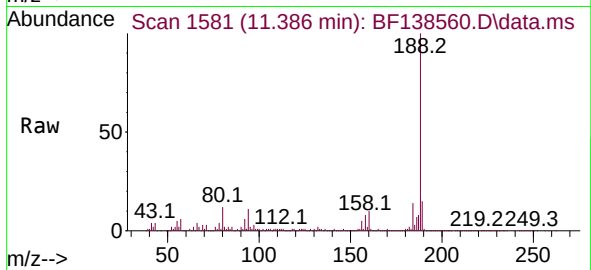
Tgt Ion:166 Resp: 222325
Ion Ratio Lower Upper
166 100
165 97.0 79.1 118.7
167 13.1 11.0 16.6





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.386 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BF138560.D
Acq: 12 Jul 2024 22:10

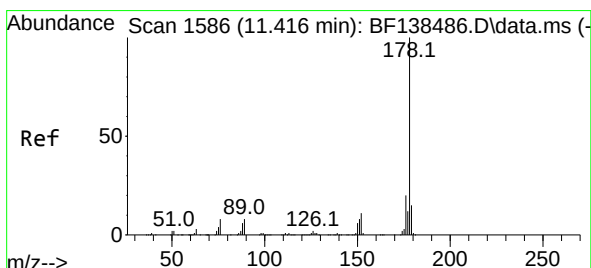
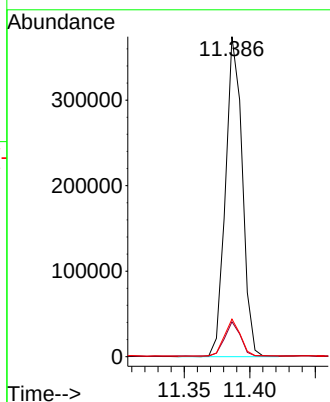
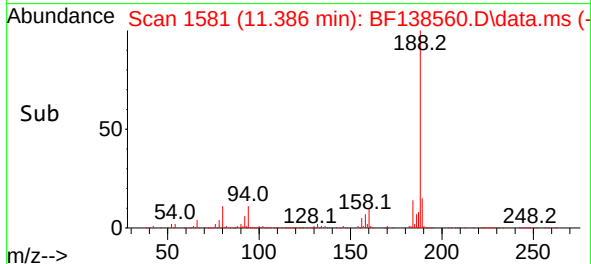
Instrument :
BNA_F
ClientSampleId :
TR-05-07102024



Tgt Ion:188 Resp: 333170
Ion Ratio Lower Upper
188 100
94 10.9 8.7 13.1
80 11.7 9.0 13.4

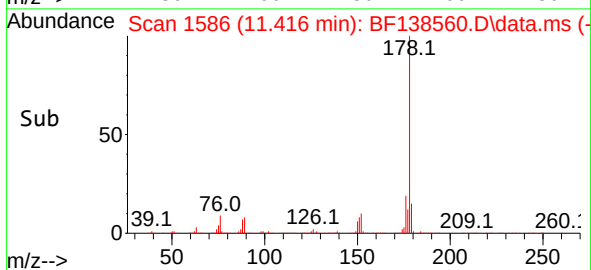
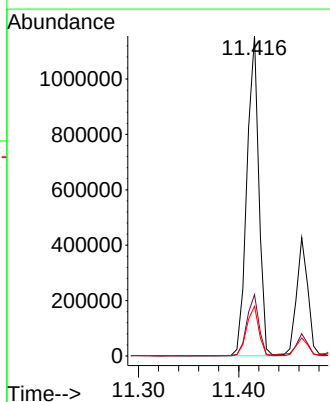
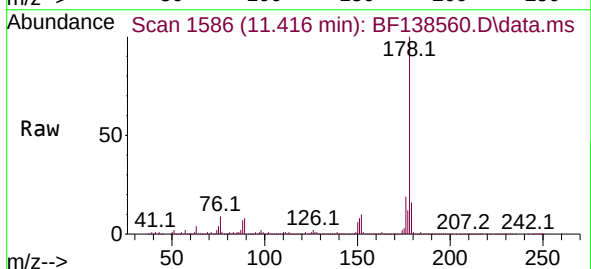
Manual Integrations
APPROVED

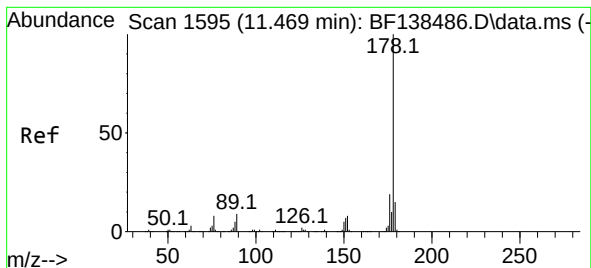
Reviewed By :Yogesh Patel 07/13/2024
Supervised By :mohammad ahmed 07/19/2024



#71
Phenanthrene
Concen: 56.730 ng
RT: 11.416 min Scan# 1586
Delta R.T. 0.000 min
Lab File: BF138560.D
Acq: 12 Jul 2024 22:10

Tgt Ion:178 Resp: 954902
Ion Ratio Lower Upper
178 100
176 19.2 15.7 23.5
179 15.6 12.2 18.2





#72

Anthracene

Concen: 19.489 ng

RT: 11.463 min Scan# 1595

Delta R.T. -0.006 min

Lab File: BF138560.D

Acq: 12 Jul 2024 22:10

Instrument :

BNA_F

ClientSampleId :

TR-05-07102024

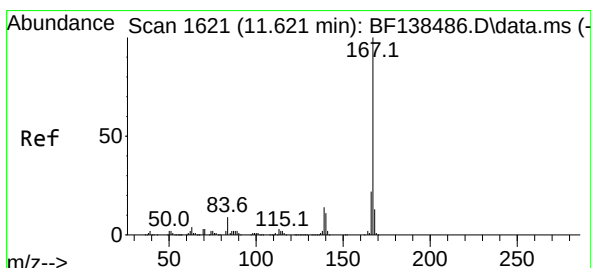
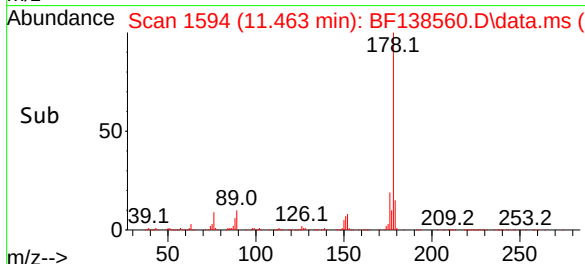
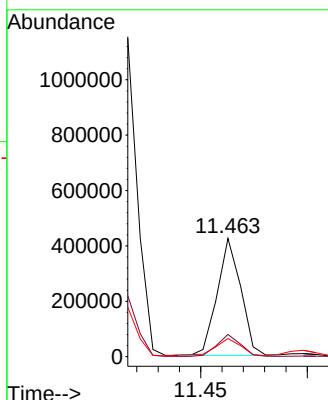
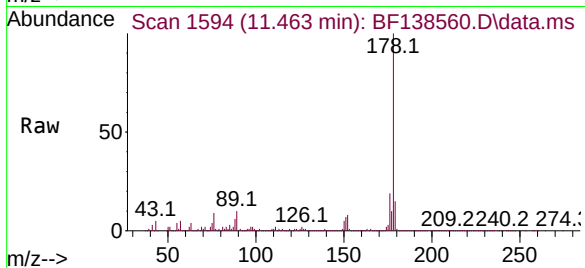
Tgt Ion:178 Resp: 325639
 Ion Ratio Lower Upper
 178 100
 176 18.8 14.8 22.2
 179 15.3 12.2 18.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 07/13/2024

Supervised By :mohammad ahmed 07/19/2024



#73

Carbazole

Concen: 6.090 ng

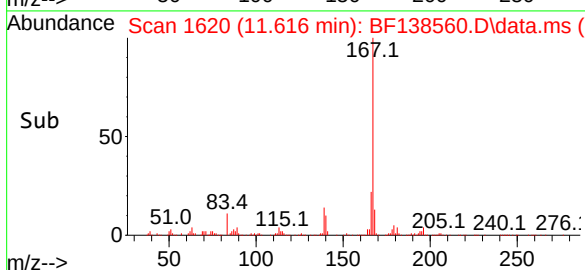
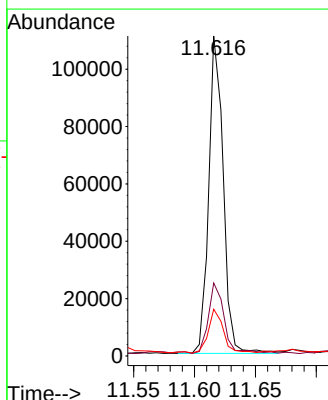
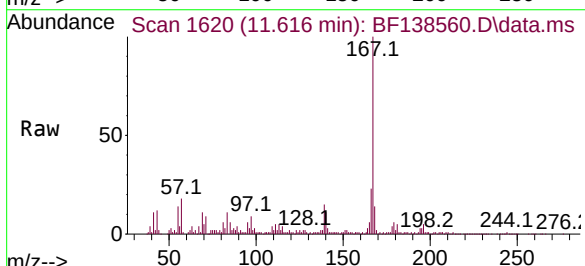
RT: 11.616 min Scan# 1620

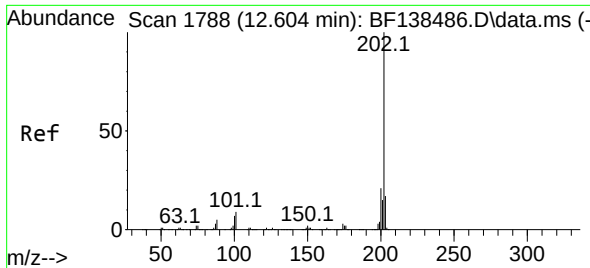
Delta R.T. -0.006 min

Lab File: BF138560.D

Acq: 12 Jul 2024 22:10

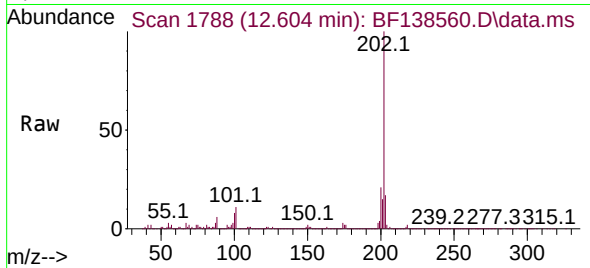
Tgt Ion:167 Resp: 91446
 Ion Ratio Lower Upper
 167 100
 166 22.8 17.8 26.6
 139 14.6 11.0 16.4





#75
Fluoranthene
Concen: 49.054 ng
RT: 12.604 min Scan# 1788
Delta R.T. 0.000 min
Lab File: BF138560.D
Acq: 12 Jul 2024 22:10

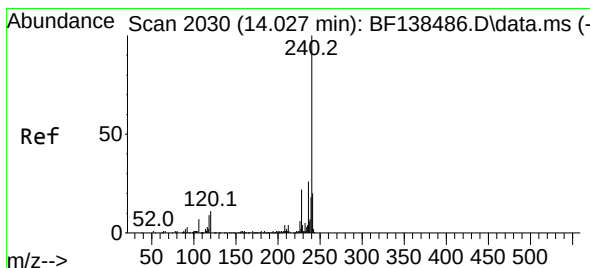
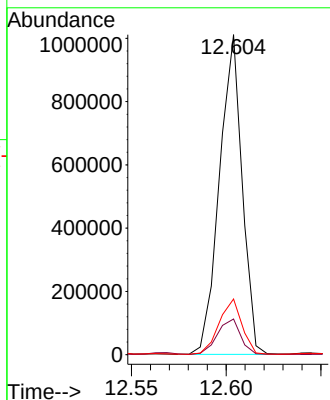
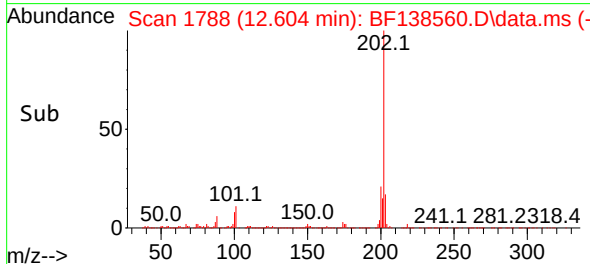
Instrument :
BNA_F
ClientSampleId :
TR-05-07102024



Tgt Ion:202 Resp: 842529
Ion Ratio Lower Upper
202 100
101 11.2 0.0 29.2
203 17.4 0.0 37.3

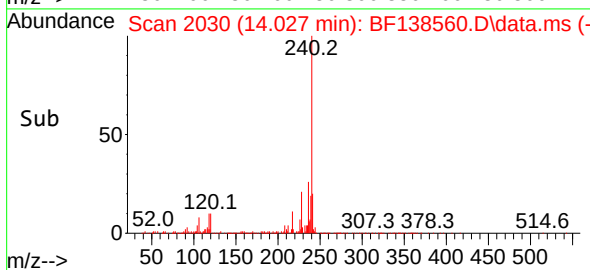
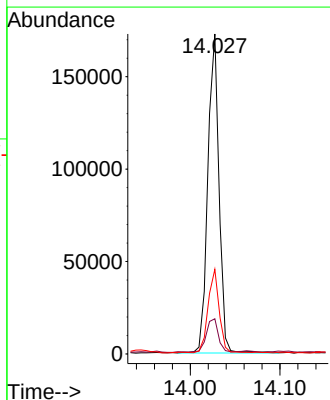
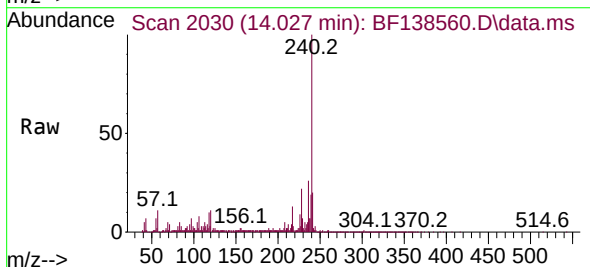
Manual Integrations
APPROVED

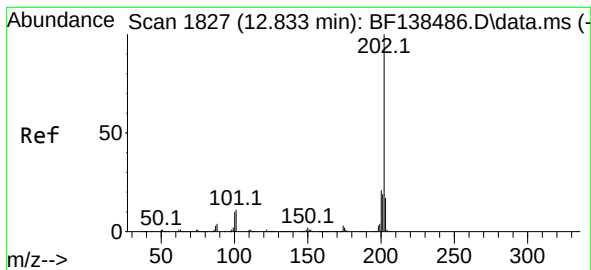
Reviewed By :Yogesh Patel 07/13/2024
Supervised By :mohammad ahmed 07/19/2024



#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.027 min Scan# 2030
Delta R.T. 0.000 min
Lab File: BF138560.D
Acq: 12 Jul 2024 22:10

Tgt Ion:240 Resp: 149367
Ion Ratio Lower Upper
240 100
120 11.0 8.6 12.8
236 26.4 21.0 31.6





#78

Pyrene

Concen: 50.621 ng

RT: 12.833 min Scan# 1827

Delta R.T. 0.000 min

Lab File: BF138560.D

Acq: 12 Jul 2024 22:10

Instrument :

BNA_F

ClientSampleId :

TR-05-07102024

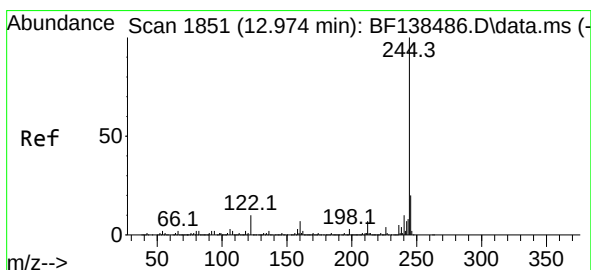
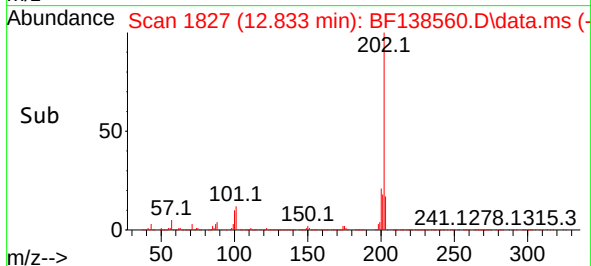
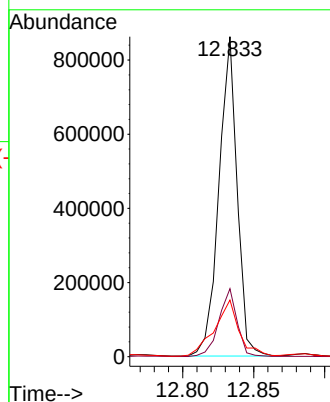
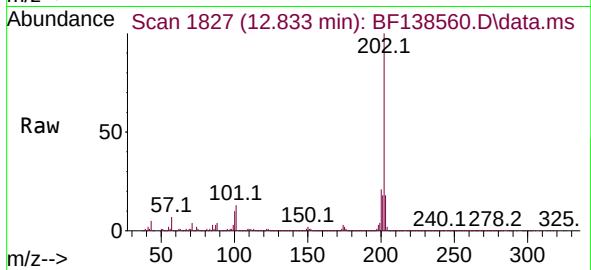
Tgt Ion:202 Resp: 767558
 Ion Ratio Lower Upper
 202 100
 200 21.2 17.0 25.6
 203 17.7 13.7 20.5

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 07/13/2024

Supervised By :mohammad ahmed 07/19/2024



#79

Terphenyl-d14

Concen: 16.620 ng

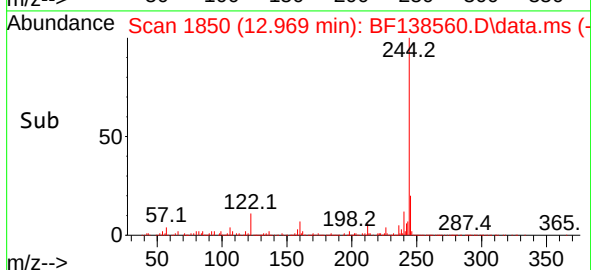
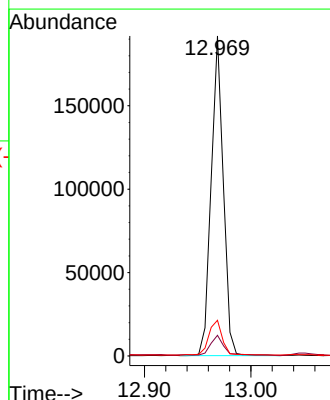
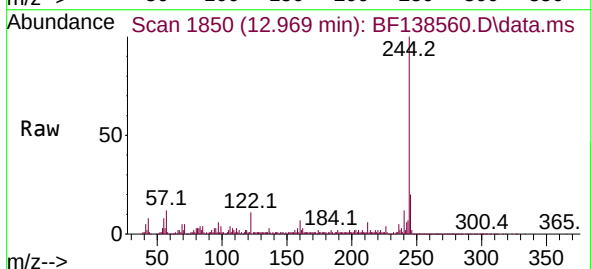
RT: 12.969 min Scan# 1850

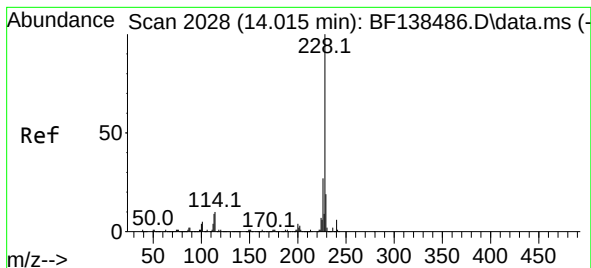
Delta R.T. -0.006 min

Lab File: BF138560.D

Acq: 12 Jul 2024 22:10

Tgt Ion:244 Resp: 152383
 Ion Ratio Lower Upper
 244 100
 212 6.4 5.5 8.3
 122 11.2 7.8 11.8





#81

Benzo(a)anthracene

Concen: 24.672 ng

RT: 14.016 min Scan# 2028

Delta R.T. 0.000 min

Lab File: BF138560.D

Acq: 12 Jul 2024 22:10

Instrument :

BNF

ClientSampleId :

TR-05-07102024

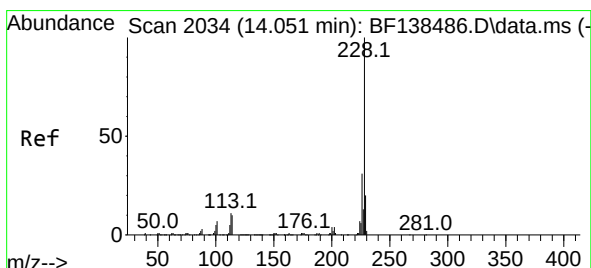
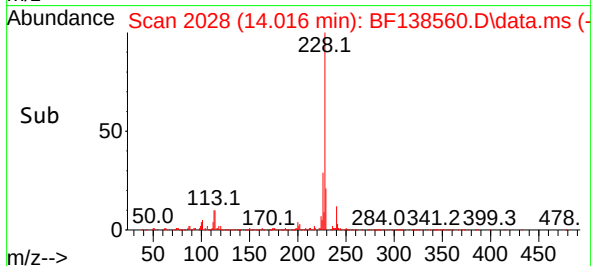
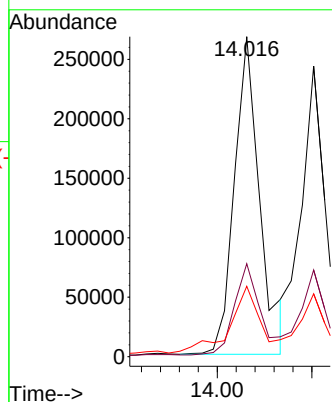
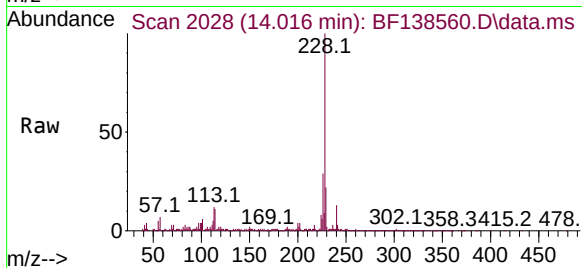
Tgt Ion:	228	Resp:	24727
Ion Ratio	Lower	Upper	
228	100		
226	29.1	21.9	32.9
229	22.0	15.5	23.3

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 07/13/2024

Supervised By :mohammad ahmed 07/19/2024



#83

Chrysene

Concen: 21.884 ng

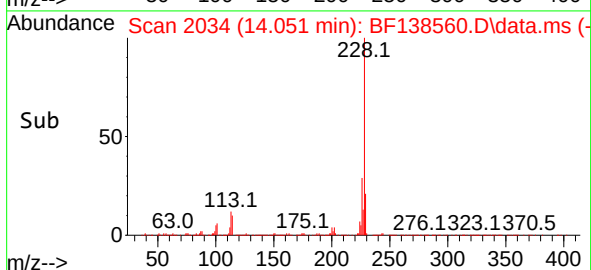
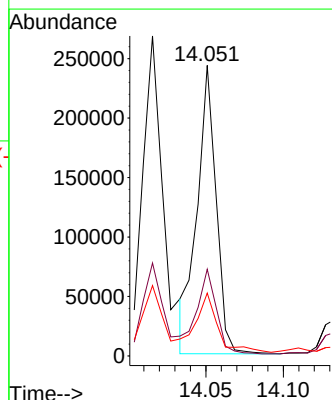
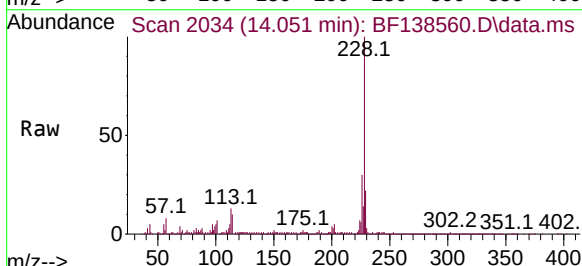
RT: 14.051 min Scan# 2034

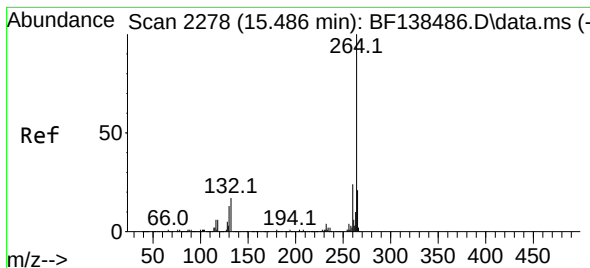
Delta R.T. 0.000 min

Lab File: BF138560.D

Acq: 12 Jul 2024 22:10

Tgt Ion:	228	Resp:	207490
Ion Ratio	Lower	Upper	
228	100		
226	29.9	24.4	36.6
229	21.6	16.0	24.0





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.498 min Scan# 21

Delta R.T. 0.012 min

Lab File: BF138560.D

Acq: 12 Jul 2024 22:10

Instrument :

BNA_F

ClientSampleId :

TR-05-07102024

Tgt Ion:264 Resp: 172358

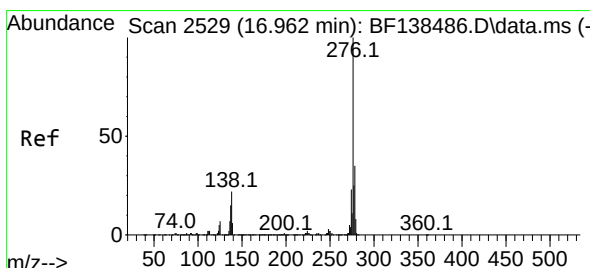
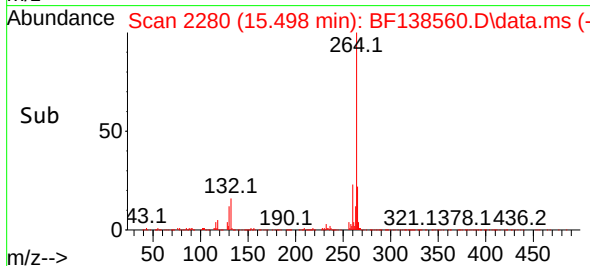
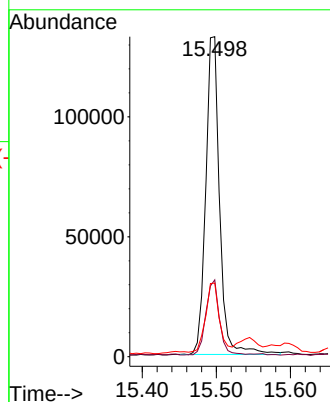
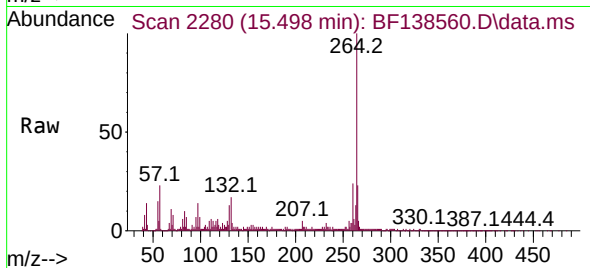
Ion	Ratio	Lower	Upper
264	100		
260	24.0	19.0	28.6
265	23.0	17.0	25.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 07/13/2024

Supervised By :mohammad ahmed 07/19/2024



#87

Indeno(1,2,3-cd)pyrene

Concen: 9.191 ng

RT: 16.968 min Scan# 2530

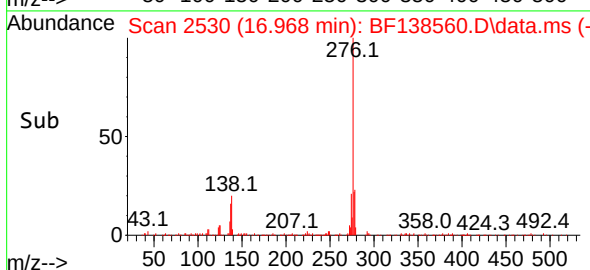
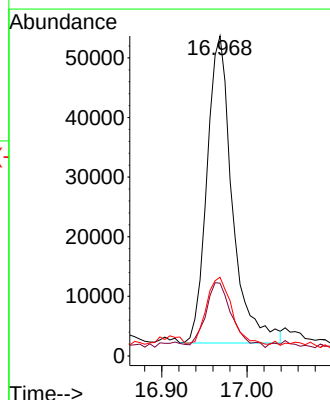
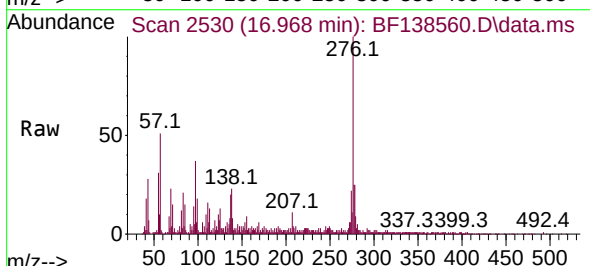
Delta R.T. 0.006 min

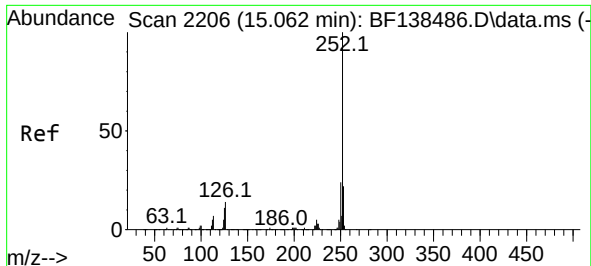
Lab File: BF138560.D

Acq: 12 Jul 2024 22:10

Tgt Ion:276 Resp: 106403

Ion	Ratio	Lower	Upper
276	100		
138	22.7	19.6	29.4
277	24.3	20.5	30.7





#88
Benzo(b)fluoranthene
Concen: 29.280 ng m
RT: 15.068 min Scan# 21
Delta R.T. 0.006 min
Lab File: BF138560.D
Acq: 12 Jul 2024 22:10

Instrument :

BNF

ClientSampleId :

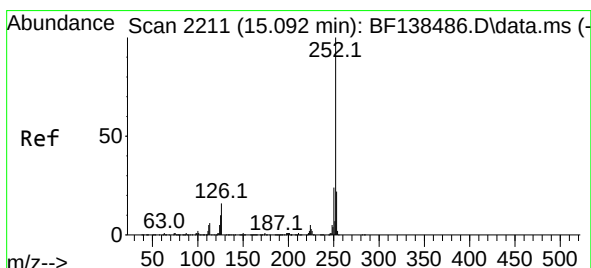
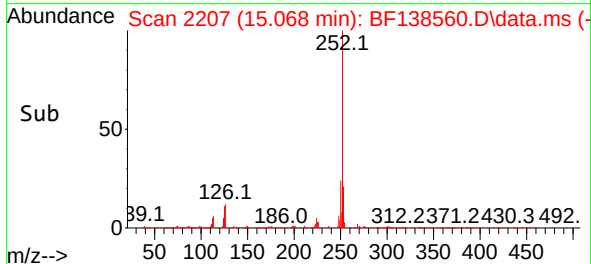
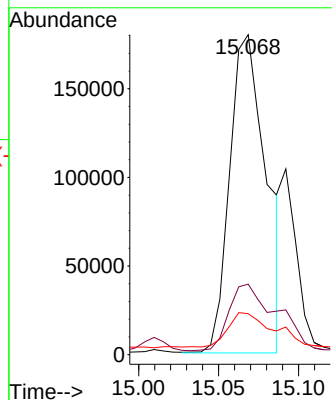
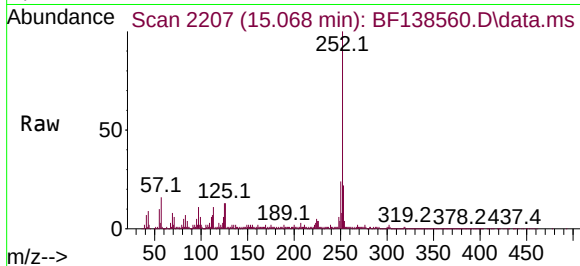
TR-05-07102024

Tgt Ion:252 Resp: 284208
Ion Ratio Lower Upper
252 100
253 22.1 17.3 25.9
125 12.8 8.6 13.0

Manual Integrations

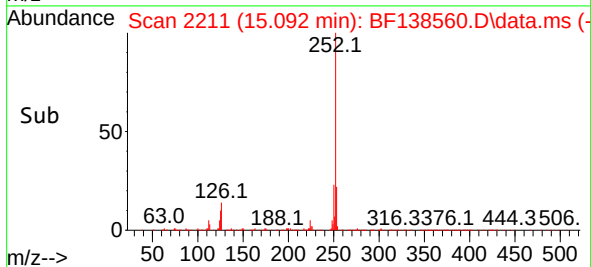
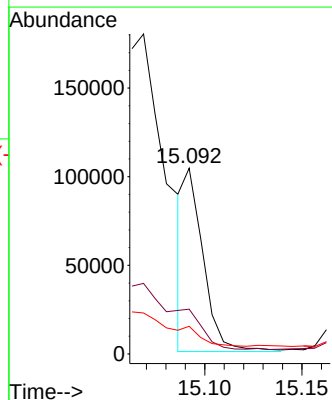
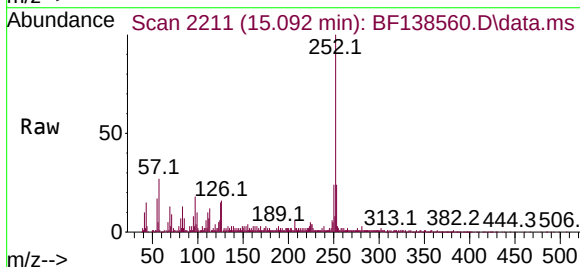
APPROVED

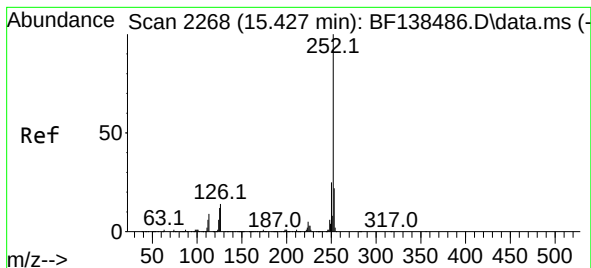
Reviewed By :Yogesh Patel 07/13/2024
Supervised By :mohammad ahmed 07/19/2024



#89
Benzo(k)fluoranthene
Concen: 7.545 ng m
RT: 15.092 min Scan# 2211
Delta R.T. 0.000 min
Lab File: BF138560.D
Acq: 12 Jul 2024 22:10

Tgt Ion:252 Resp: 71423
Ion Ratio Lower Upper
252 100
253 24.1 17.7 26.5
125 14.9 8.1 12.1#





#90

Benzo(a)pyrene

Concen: 23.951 ng

RT: 15.433 min Scan# 21

Delta R.T. 0.006 min

Lab File: BF138560.D

Acq: 12 Jul 2024 22:10

Instrument :

BNF

ClientSampleId :

TR-05-07102024

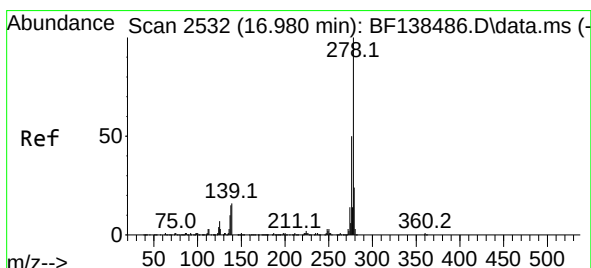
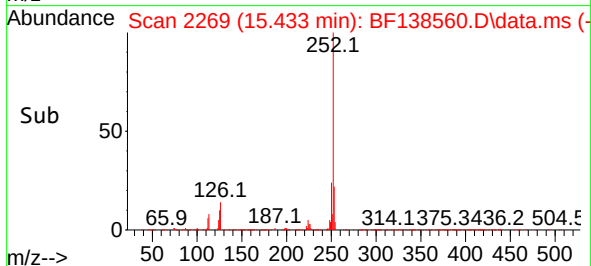
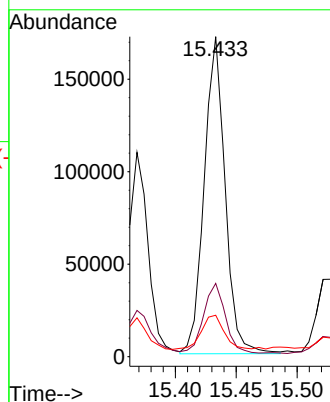
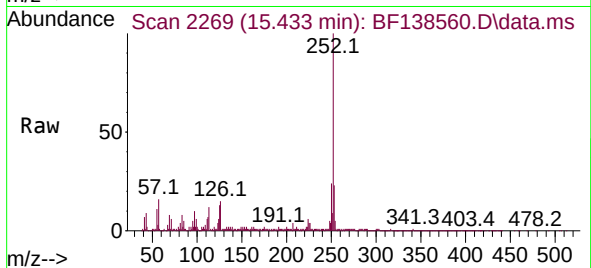
Tgt Ion:252 Resp: 20422
 Ion Ratio Lower Upper
 252 100
 253 22.9 17.4 26.0
 125 13.0 9.4 14.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 07/13/2024

Supervised By :mohammad ahmed 07/19/2024



#91

Dibenzo(a,h)anthracene

Concen: 3.151 ng

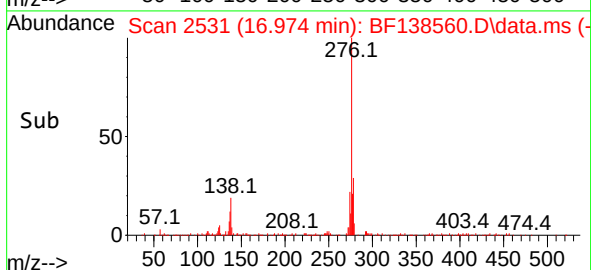
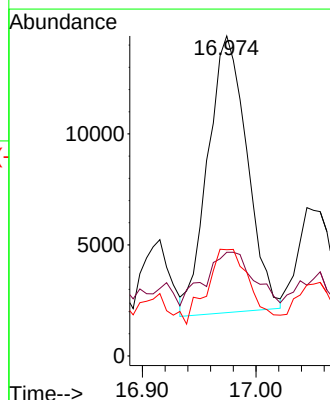
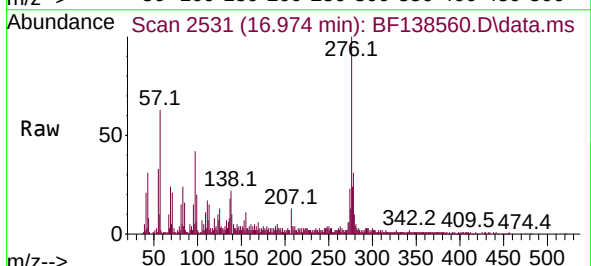
RT: 16.974 min Scan# 2531

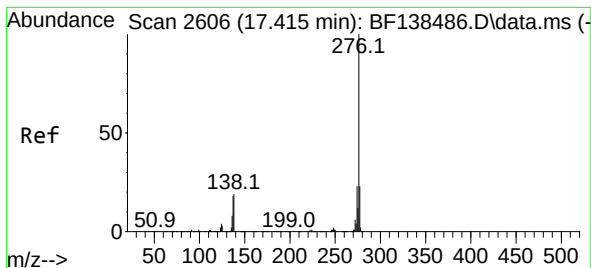
Delta R.T. -0.006 min

Lab File: BF138560.D

Acq: 12 Jul 2024 22:10

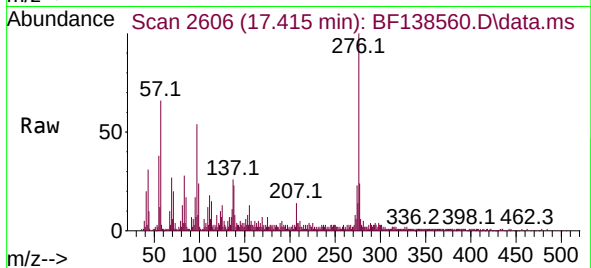
Tgt Ion:278 Resp: 29838
 Ion Ratio Lower Upper
 278 100
 139 32.4 12.8 19.2#
 279 33.2 19.1 28.7#





#92
 Benzo(g,h,i)perylene
 Concen: 10.342 ng
 RT: 17.415 min Scan# 20
 Delta R.T. 0.000 min
 Lab File: BF138560.D
 Acq: 12 Jul 2024 22:10

Instrument :
 BNA_F
 ClientSampleId :
 TR-05-07102024



Tgt Ion:276 Resp: 10385
 Ion Ratio Lower Upper
 276 100
 277 23.7 18.0 27.0
 138 23.3 15.5 23.3

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 07/13/2024
 Supervised By :mohammad ahmed 07/19/2024

