

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF091824\
 Data File : BF139451.D
 Acq On : 19 Sep 2024 03:22
 Operator : RC/JU
 Sample : P4098-03 5X
 Misc :
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 HR-04-091724

Manual Integrations
 APPROVED

Reviewed By :Jagrut Upadhyay 09/19/2024
 Supervised By :mohammad ahmed 09/20/2024

Quant Time: Sep 19 03:55:56 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF091324.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Sep 14 02:58:23 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.881	152	51000	20.000	ng	0.00
21) Naphthalene-d8	8.163	136	168609	20.000	ng	0.00
39) Acenaphthene-d10	9.916	164	77272	20.000	ng	0.00
64) Phenanthrene-d10	11.398	188	138526	20.000	ng	0.00
76) Chrysene-d12	14.033	240	82690	20.000	ng	0.00
86) Perylene-d12	15.510	264	68239	20.000	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.487	112	42765	13.679	ng	0.00
7) Phenol-d6	6.498	99	52668	12.835	ng	0.00
23) Nitrobenzene-d5	7.434	82	33489	9.337	ng	-0.01
42) 2,4,6-Tribromophenol	10.698	330	9353	11.369	ng	0.00
45) 2-Fluorobiphenyl	9.234	172	55652	10.101	ng	0.00
79) Terphenyl-d14	12.980	244	55559	11.028	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.181	128	21267	2.416	ng	# 93
37) 2-Methylnaphthalene	8.875	142	12438	2.226	ng	96
52) Acenaphthene	9.945	154	21413	4.585	ng	97
55) Dibenzofuran	10.116	168	25481	3.915	ng	# 93
58) Fluorene	10.457	166	37174	7.000	ng	# 97
71) Phenanthrene	11.422	178	263676	39.453	ng	99
72) Anthracene	11.475	178	96088	14.705	ng	99
73) Carbazole	11.628	167	14490	2.317	ng	93
75) Fluoranthene	12.610	202	398509	55.835	ng	98
78) Pyrene	12.839	202	319263	44.966	ng	98
81) Benzo(a)anthracene	14.027	228	159967	29.205	ng	97
83) Chrysene	14.063	228	106720	21.178	ng	97
87) Indeno(1,2,3-cd)pyrene	16.974	276	43228	10.653	ng	97
88) Benzo(b)fluoranthene	15.080	252	121223m	28.804	ng	
89) Benzo(k)fluoranthene	15.092	252	49525m	12.763	ng	
90) Benzo(a)pyrene	15.445	252	89061	25.516	ng	97
91) Dibenzo(a,h)anthracene	16.986	278	11260	3.358	ng	# 77
92) Benzo(g,h,i)perylene	17.421	276	35983	10.839	ng	96

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

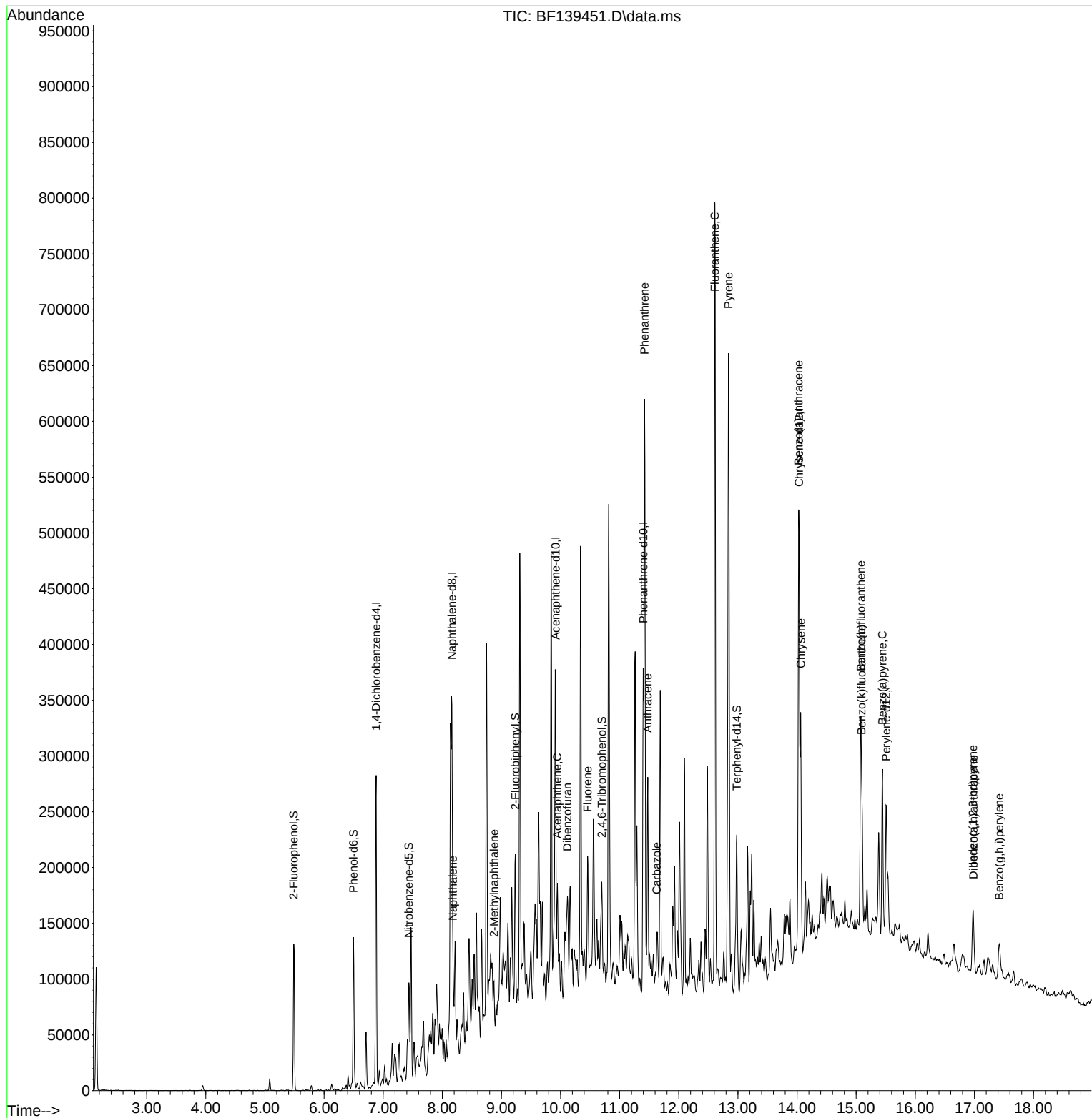
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF091824\
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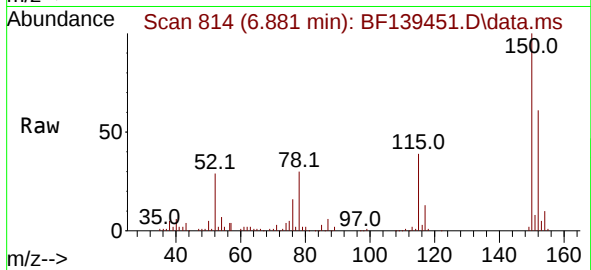
Reviewed By :Jagrut Upadhyay 09/19/2024
Supervised By :mohammad ahmed 09/20/2024





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.881 min Scan# 814
Delta R.T. -0.000 min
Lab File: BF139451.D
Acq: 19 Sep 2024 03:22

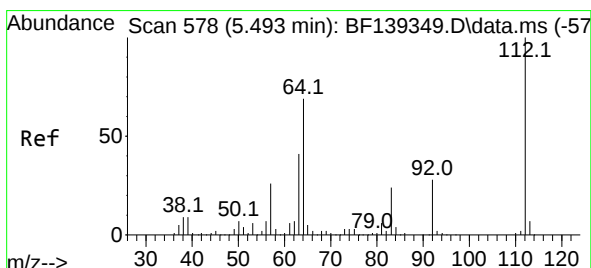
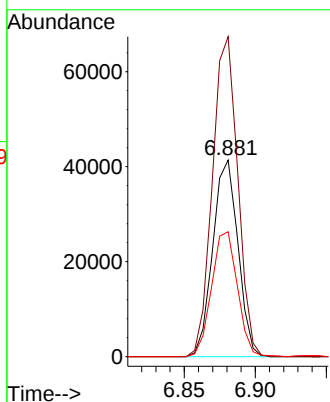
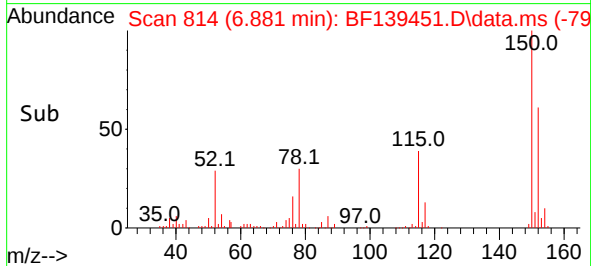
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BNA_F
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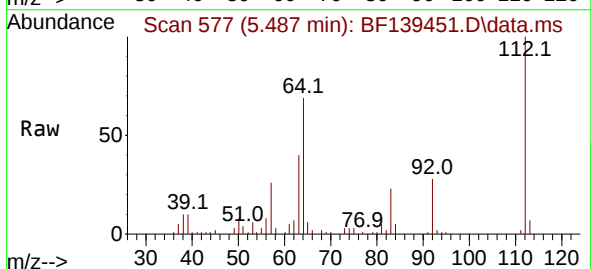
Tgt Ion:152 Resp: 51000
Ion Ratio Lower Upper
152 100
150 162.7 124.1 186.1
115 63.6 48.1 72.1

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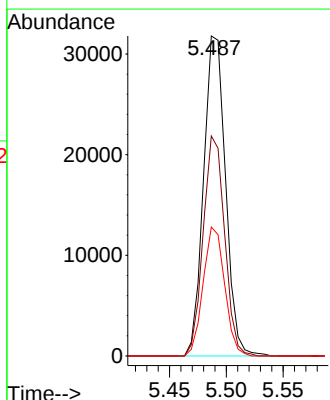
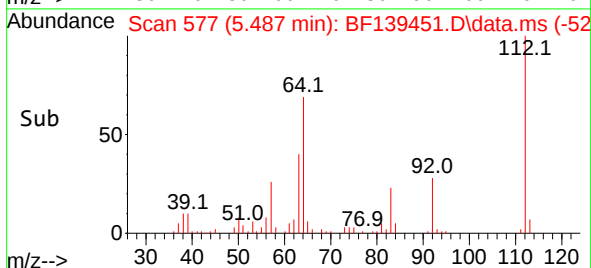
Reviewed By :Jagrut Upadhyay 09/19/2024
Supervised By :mohammad ahmed 09/20/2024

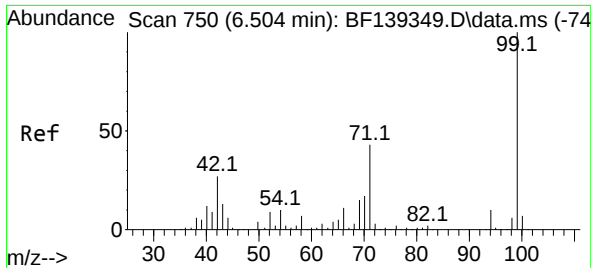


#5
2-Fluorophenol
Concen: 13.679 ng
RT: 5.487 min Scan# 577
Delta R.T. -0.006 min
Lab File: BF139451.D
Acq: 19 Sep 2024 03:22



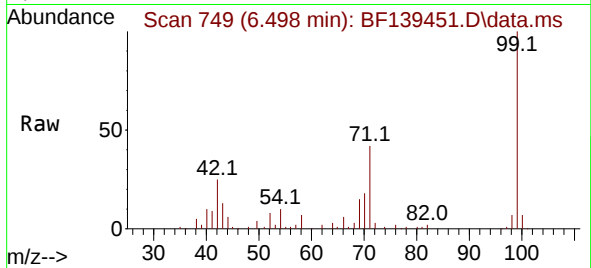
Tgt Ion:112 Resp: 42765
Ion Ratio Lower Upper
112 100
64 68.7 54.8 82.2
63 40.3 33.0 49.4





#7
Phenol-d6
Concen: 12.835 ng
RT: 6.498 min Scan# 749
Delta R.T. -0.006 min
Lab File: BF139451.D
Acq: 19 Sep 2024 03:22

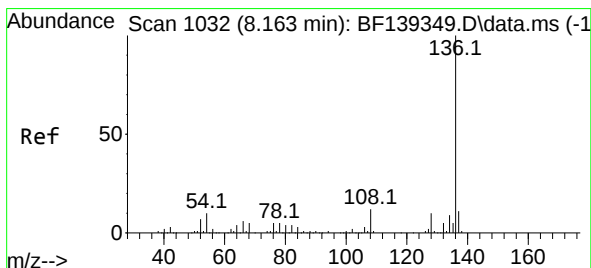
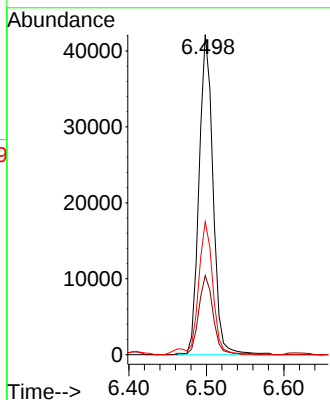
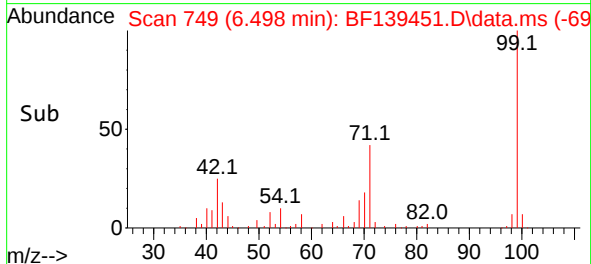
Instrument :
BNA_F
ClientSampleId :
HR-04-091724



Tgt Ion: 99 Resp: 52668
Ion Ratio Lower Upper
99 100
42 24.7 21.9 32.9
71 41.5 34.6 52.0

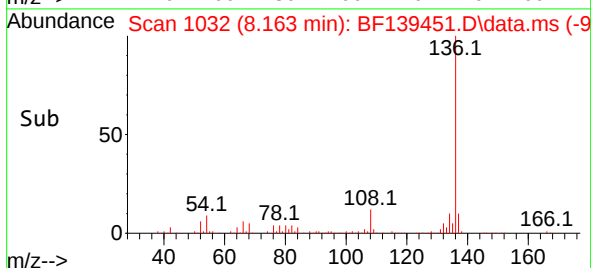
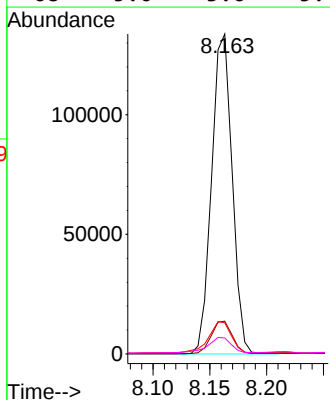
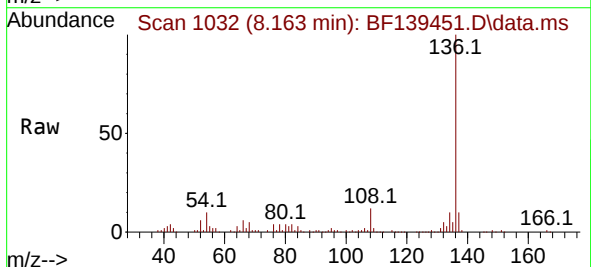
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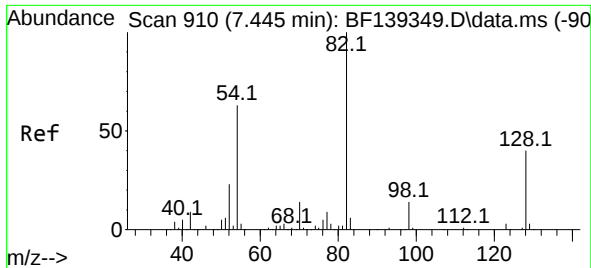
Reviewed By :Jagrut Upadhyay 09/19/2024
Supervised By :mohammad ahmed 09/20/2024



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.163 min Scan# 1032
Delta R.T. -0.000 min
Lab File: BF139451.D
Acq: 19 Sep 2024 03:22

Tgt Ion:136 Resp: 168609
Ion Ratio Lower Upper
136 100
137 10.3 8.6 12.8
54 9.8 7.8 11.8
68 5.0 3.6 5.4





#23
Nitrobenzene-d5
Concen: 9.337 ng
RT: 7.434 min Scan# 90
Delta R.T. -0.012 min
Lab File: BF139451.D
Acq: 19 Sep 2024 03:22

Instrument :

BNA_F

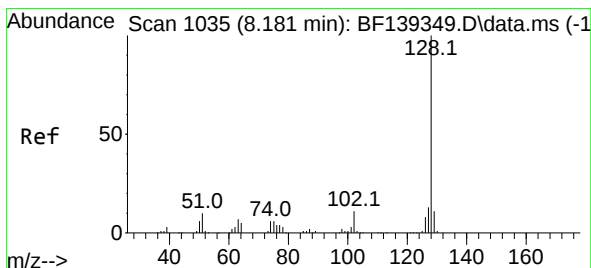
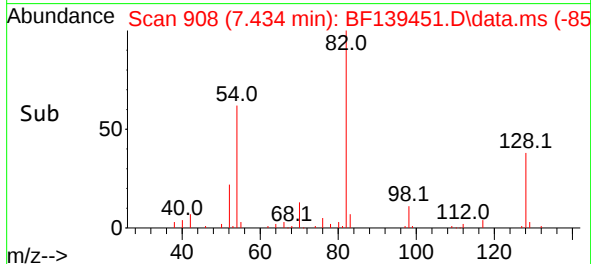
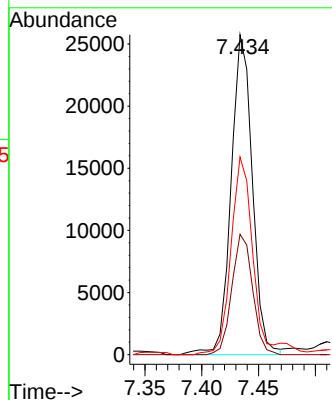
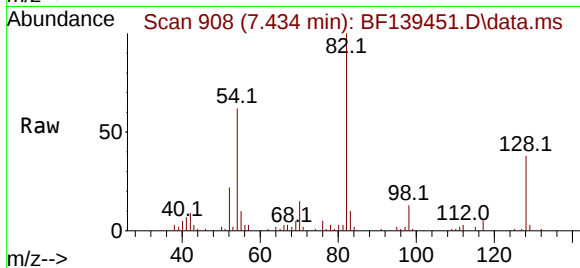
ClientSampleId :

HR-04-091724

Tgt Ion: 82 Resp: 33489
Ion Ratio Lower Upper
82 100
128 37.6 31.8 47.6
54 61.7 50.6 75.8

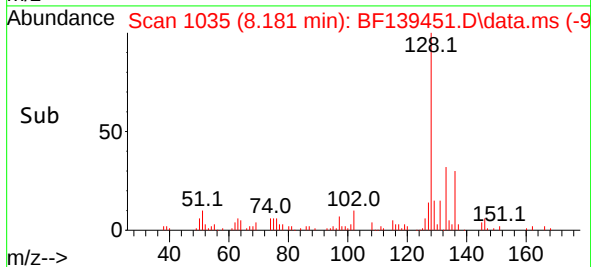
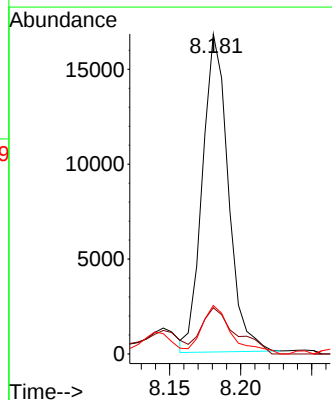
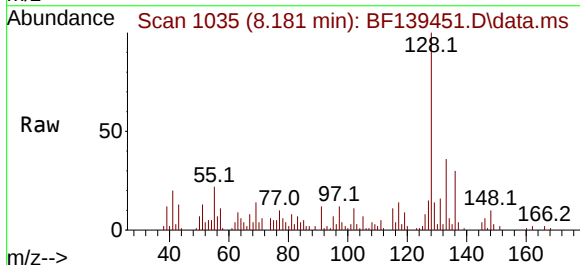
Manual Integrations
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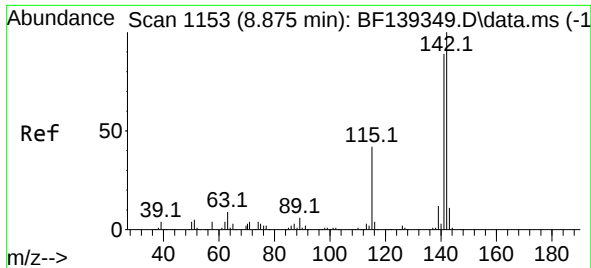
Reviewed By :Jagrut Upadhyay 09/19/2024
Supervised By :mohammad ahmed 09/20/2024



#31
Naphthalene
Concen: 2.416 ng
RT: 8.181 min Scan# 1035
Delta R.T. -0.000 min
Lab File: BF139451.D
Acq: 19 Sep 2024 03:22

Tgt Ion:128 Resp: 21267
Ion Ratio Lower Upper
128 100
129 14.5 8.6 13.0#
127 15.1 10.6 16.0





#37
2-Methylnaphthalene
Concen: 2.226 ng
RT: 8.875 min Scan# 1153
Delta R.T. -0.000 min
Lab File: BF139451.D
Acq: 19 Sep 2024 03:22

Instrument :

BNA_F

ClientSampleId :

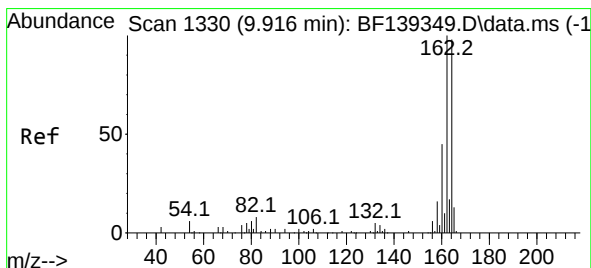
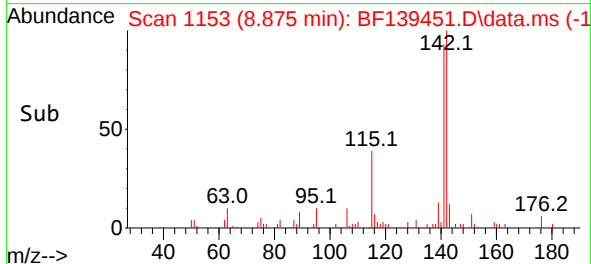
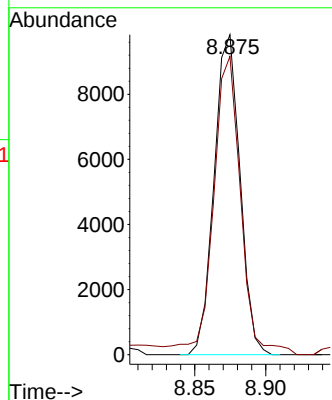
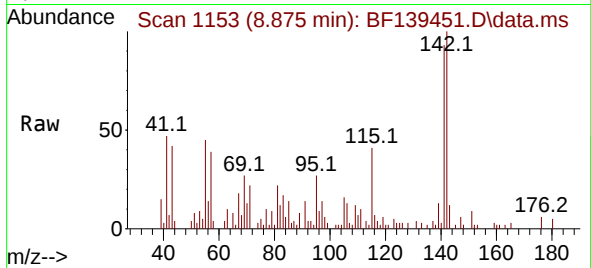
HR-04-091724

Tgt Ion:142 Resp: 12438
Ion Ratio Lower Upper
142 100
141 93.3 71.6 107.4

Manual Integrations

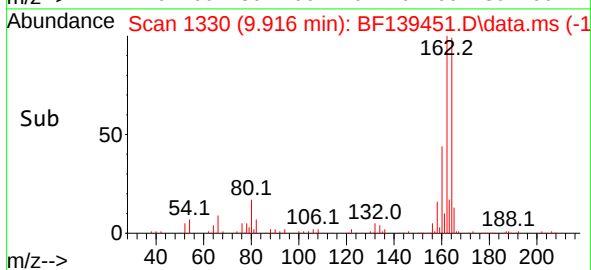
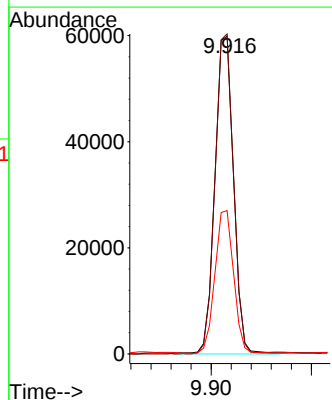
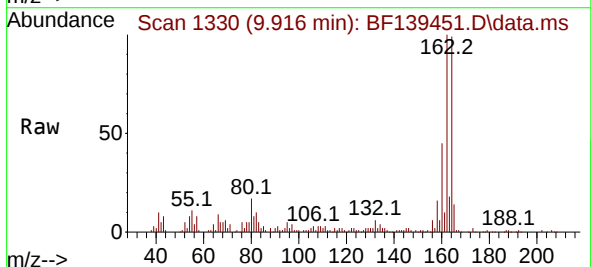
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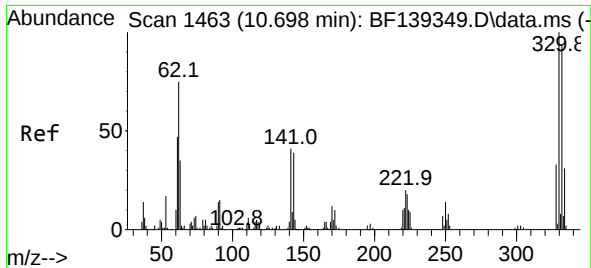
Reviewed By :Jagrut Upadhyay 09/19/2024
Supervised By :mohammad ahmed 09/20/2024



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.916 min Scan# 1330
Delta R.T. -0.000 min
Lab File: BF139451.D
Acq: 19 Sep 2024 03:22

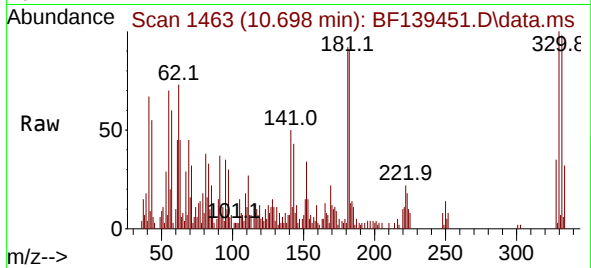
Tgt Ion:164 Resp: 77272
Ion Ratio Lower Upper
164 100
162 100.7 81.3 121.9
160 45.1 36.4 54.6





#42
2,4,6-Tribromophenol
Concen: 11.369 ng
RT: 10.698 min Scan# 1463
Delta R.T. -0.000 min
Lab File: BF139451.D
Acq: 19 Sep 2024 03:22

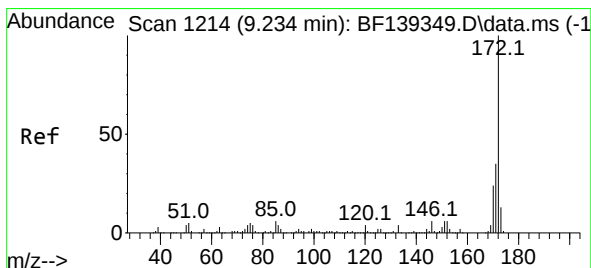
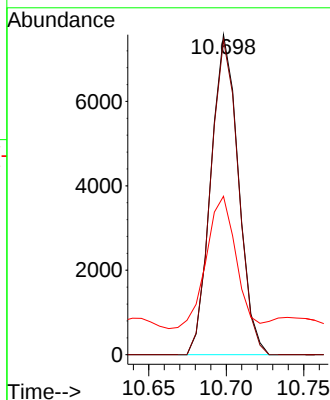
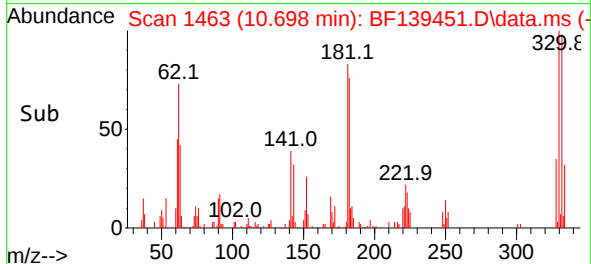
Instrument :
BNA_F
ClientSampleId :
HR-04-091724



Tgt Ion: 330 Resp: 935
Ion Ratio Lower Upper
330 100
332 98.7 75.2 112.8
141 44.4 31.2 46.8

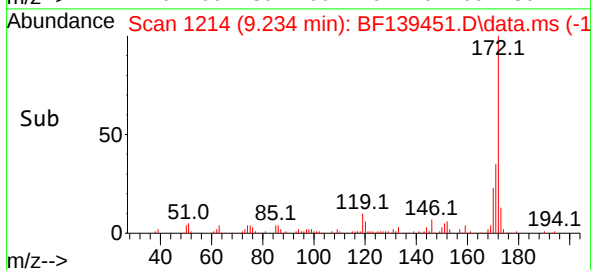
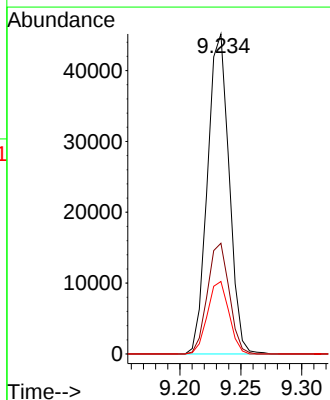
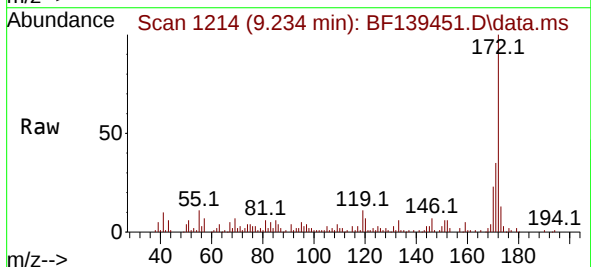
Manual Integrations
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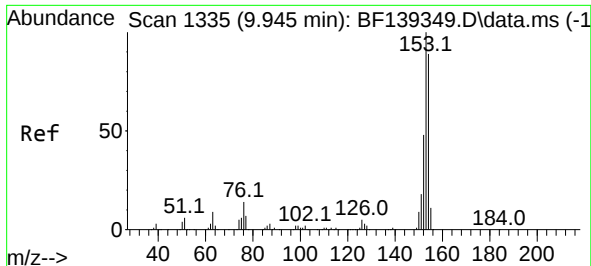
Reviewed By : Jagrut Upadhyay 09/19/2024
Supervised By : mohammad ahmed 09/20/2024



#45
2-Fluorobiphenyl
Concen: 10.101 ng
RT: 9.234 min Scan# 1214
Delta R.T. -0.000 min
Lab File: BF139451.D
Acq: 19 Sep 2024 03:22

Tgt Ion: 172 Resp: 55652
Ion Ratio Lower Upper
172 100
171 34.6 28.3 42.5
170 22.6 19.0 28.6





#52
Acenaphthene
Concen: 4.585 ng
RT: 9.945 min Scan# 1335
Delta R.T. -0.000 min
Lab File: BF139451.D
Acq: 19 Sep 2024 03:22

Instrument :

BNA_F

ClientSampleId :

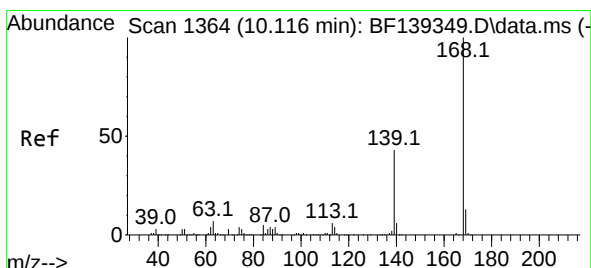
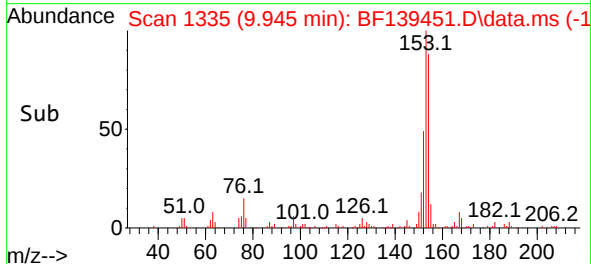
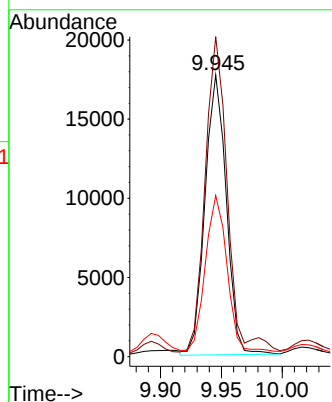
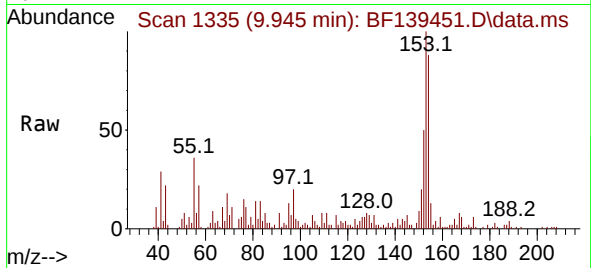
HR-04-091724

Tgt Ion:154 Resp: 2141
Ion Ratio Lower Upper
154 100
153 113.6 89.5 134.3
152 57.2 42.6 64.0

Manual Integrations

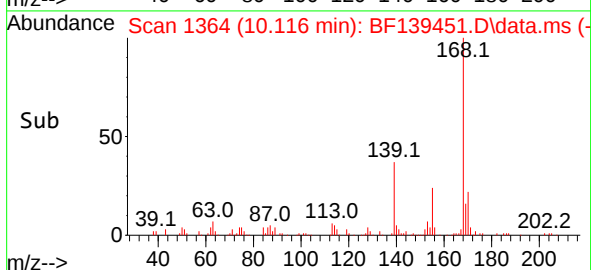
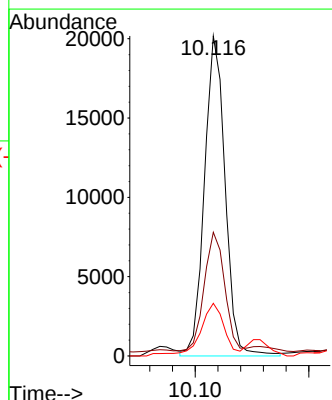
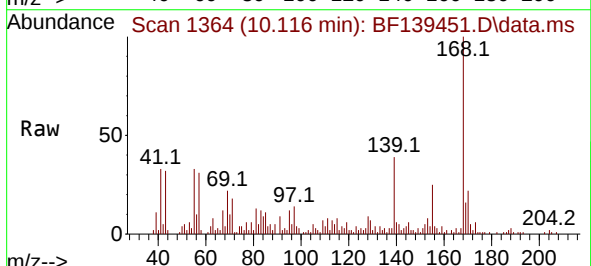
APPROVED

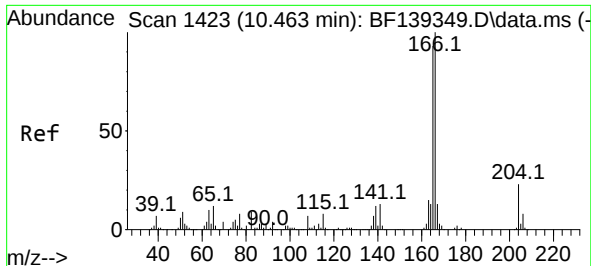
Reviewed By :Jagrut Upadhyay 09/19/2024
Supervised By :mohammad ahmed 09/20/2024



#55
Dibenzofuran
Concen: 3.915 ng
RT: 10.116 min Scan# 1364
Delta R.T. -0.000 min
Lab File: BF139451.D
Acq: 19 Sep 2024 03:22

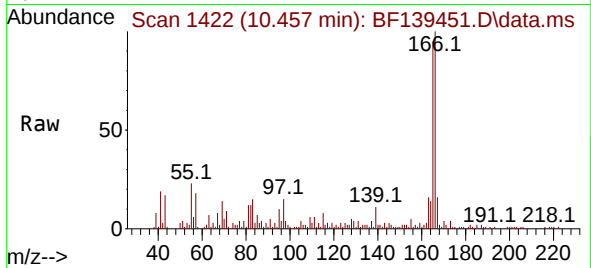
Tgt Ion:168 Resp: 25481
Ion Ratio Lower Upper
168 100
139 38.6 34.1 51.1
169 16.4 10.5 15.7#





#58
Fluorene
Concen: 7.000 ng
RT: 10.457 min Scan# 1422
Delta R.T. -0.006 min
Lab File: BF139451.D
Acq: 19 Sep 2024 03:22

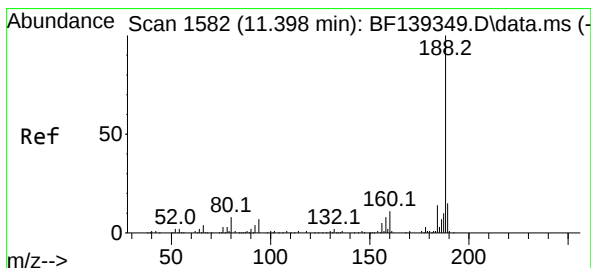
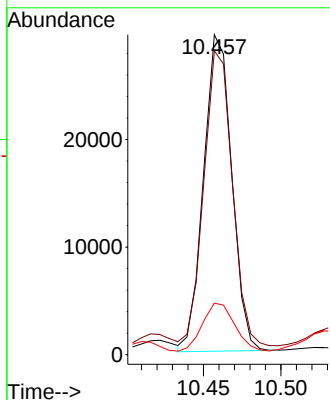
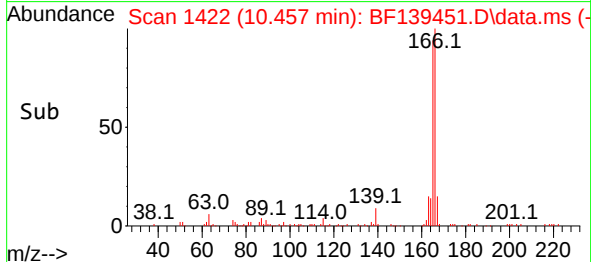
Instrument :
BNA_F
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HR-04-091724



Tgt Ion:166 Resp: 37174
Ion Ratio Lower Upper
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165 95.0 74.5 111.7
167 16.1 10.6 16.0

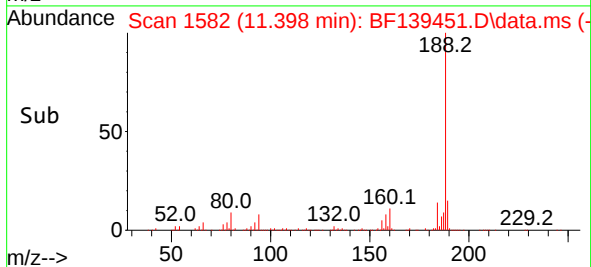
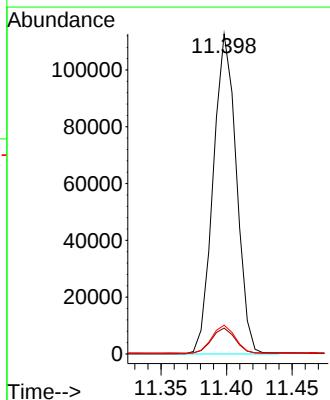
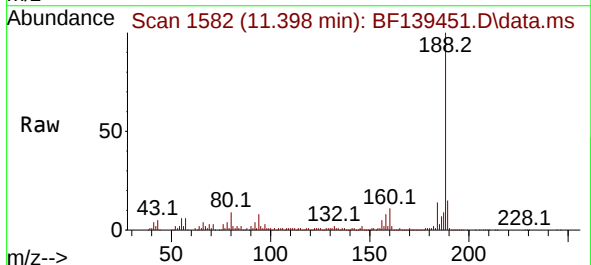
Manual Integrations
APPROVED

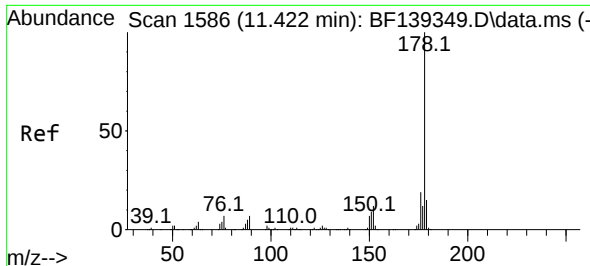
Reviewed By :Jagrut Upadhyay 09/19/2024
Supervised By :mohammad ahmed 09/20/2024



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.398 min Scan# 1582
Delta R.T. -0.000 min
Lab File: BF139451.D
Acq: 19 Sep 2024 03:22

Tgt Ion:188 Resp: 138526
Ion Ratio Lower Upper
188 100
94 8.1 5.5 8.3
80 9.0 6.6 9.8





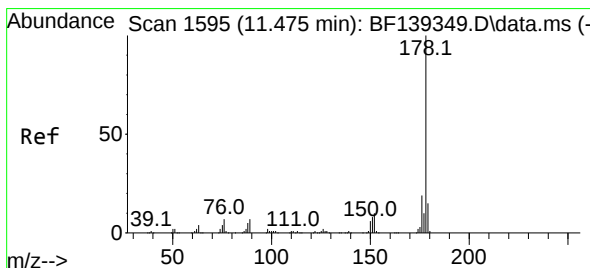
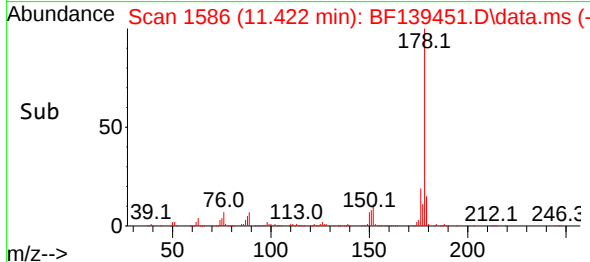
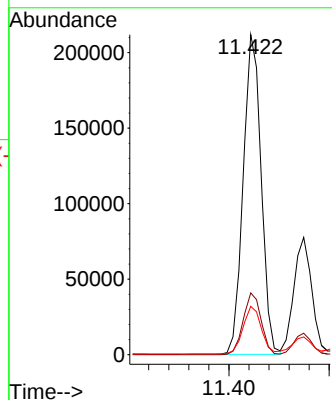
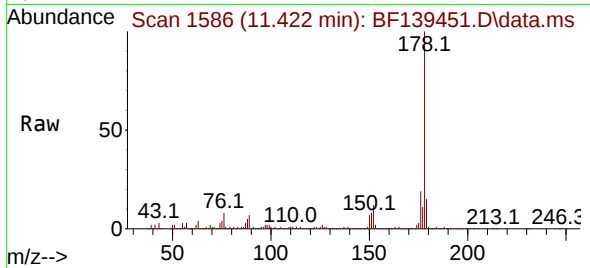
#71
Phenanthrene
Concen: 39.453 ng
RT: 11.422 min Scan# 1586
Delta R.T. -0.000 min
Lab File: BF139451.D
Acq: 19 Sep 2024 03:22

Instrument :
BNA_F
ClientSampleId :
HR-04-091724

Tgt Ion:178 Resp: 263670
Ion Ratio Lower Upper
178 100
176 19.3 15.2 22.8
179 15.1 12.2 18.4

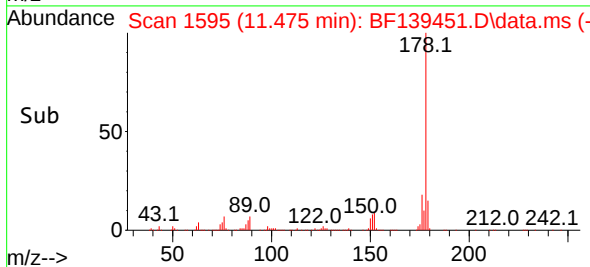
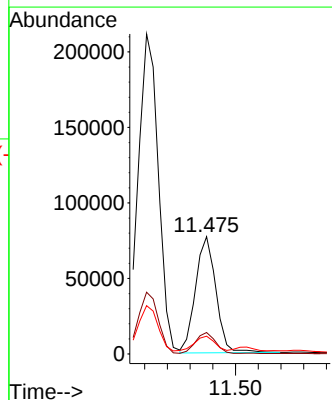
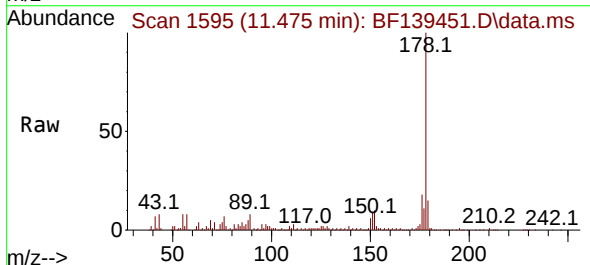
Manual Integrations
APPROVED

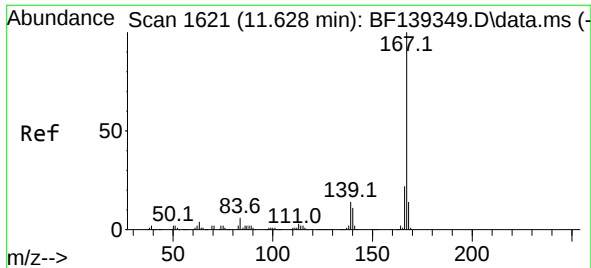
Reviewed By :Jagrut Upadhyay 09/19/2024
Supervised By :mohammad ahmed 09/20/2024



#72
Anthracene
Concen: 14.705 ng
RT: 11.475 min Scan# 1595
Delta R.T. -0.000 min
Lab File: BF139451.D
Acq: 19 Sep 2024 03:22

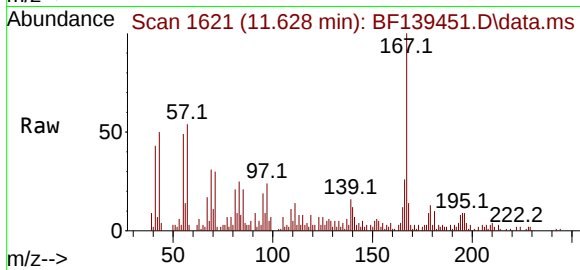
Tgt Ion:178 Resp: 96088
Ion Ratio Lower Upper
178 100
176 18.2 15.0 22.6
179 15.2 12.0 18.0





#73
 Carbazole
 Concen: 2.317 ng
 RT: 11.628 min Scan# 1621
 Delta R.T. -0.000 min
 Lab File: BF139451.D
 Acq: 19 Sep 2024 03:22

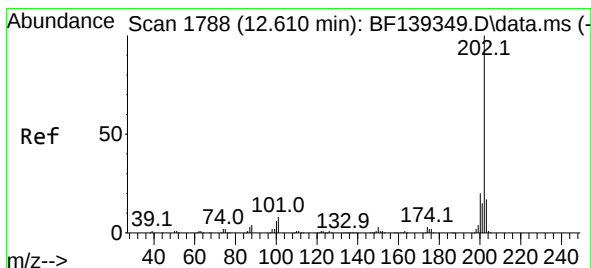
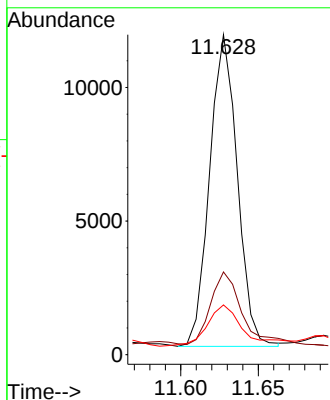
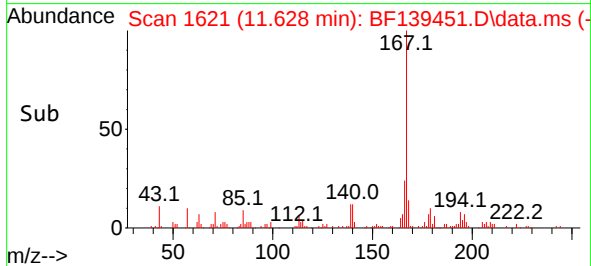
Instrument :
 BNA_F
 ClientSampleId :
 HR-04-091724



Tgt Ion:167 Resp: 14490
 Ion Ratio Lower Upper
 167 100
 166 25.8 17.5 26.3
 139 15.6 10.9 16.3

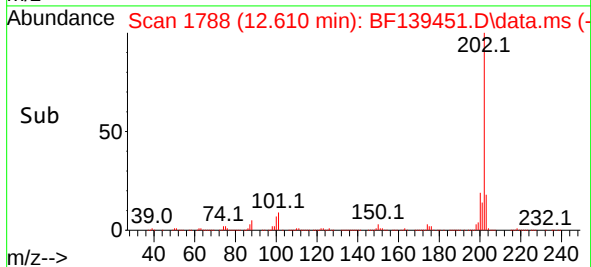
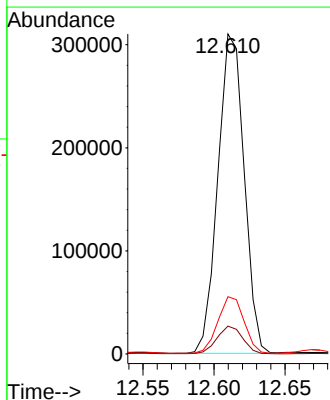
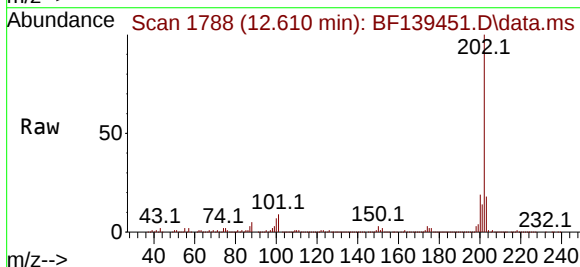
Manual Integrations
 APPROVED

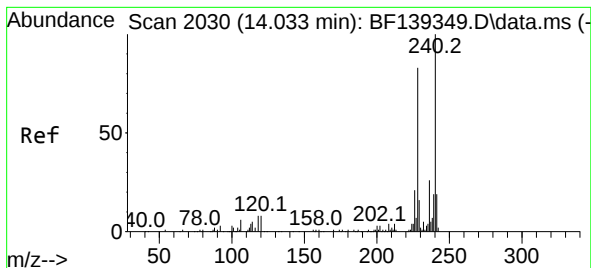
Reviewed By :Jagrut Upadhyay 09/19/2024
 Supervised By :mohammad ahmed 09/20/2024



#75
 Fluoranthene
 Concen: 55.835 ng
 RT: 12.610 min Scan# 1788
 Delta R.T. -0.000 min
 Lab File: BF139451.D
 Acq: 19 Sep 2024 03:22

Tgt Ion:202 Resp: 398509
 Ion Ratio Lower Upper
 202 100
 101 8.7 0.0 27.7
 203 17.9 0.0 37.4





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.033 min Scan# 2030

Delta R.T. -0.000 min

Lab File: BF139451.D

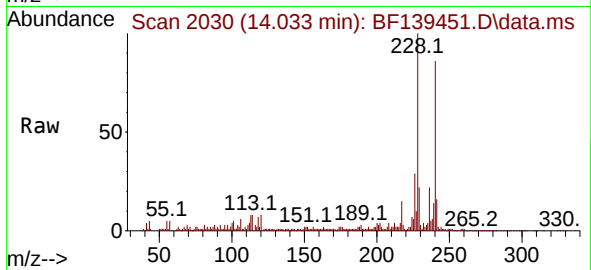
Acq: 19 Sep 2024 03:22

Instrument :

BNA_F

ClientSampleId :

HR-04-091724



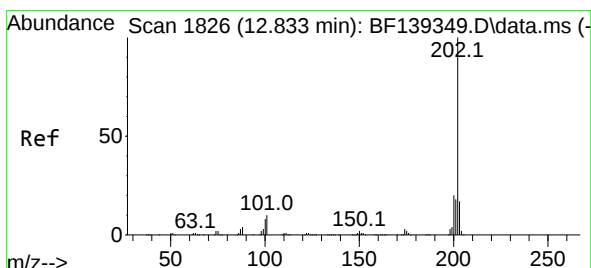
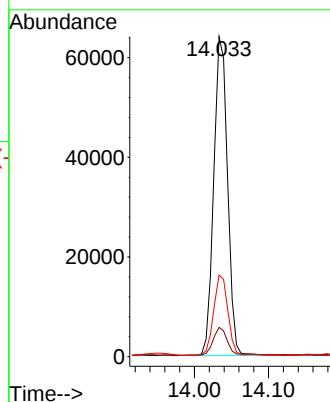
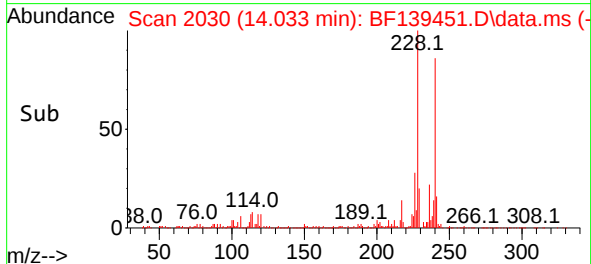
Tgt Ion:240 Resp: 82690

Ion	Ratio	Lower	Upper
240	100		
120	9.1	6.2	9.2
236	25.5	20.9	31.3

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 09/19/2024
Supervised By :mohammad ahmed 09/20/2024



#78

Pyrene

Concen: 44.966 ng

RT: 12.839 min Scan# 1827

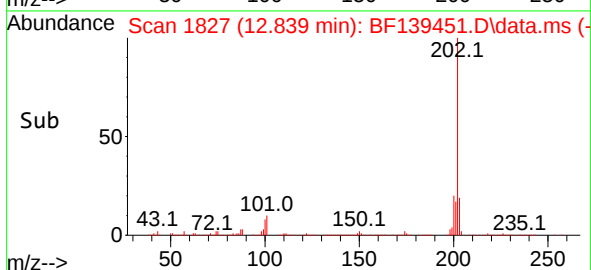
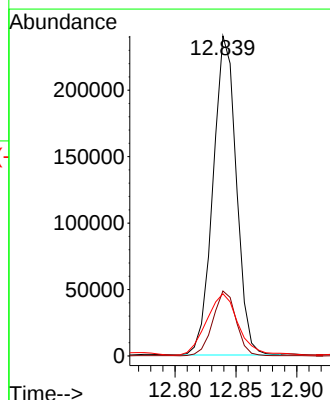
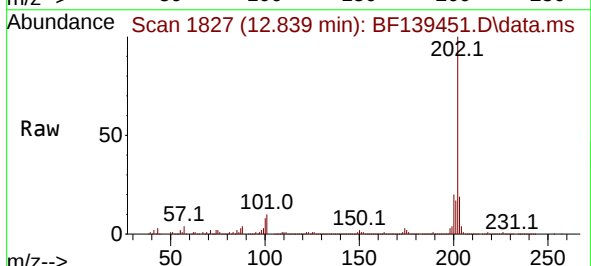
Delta R.T. 0.006 min

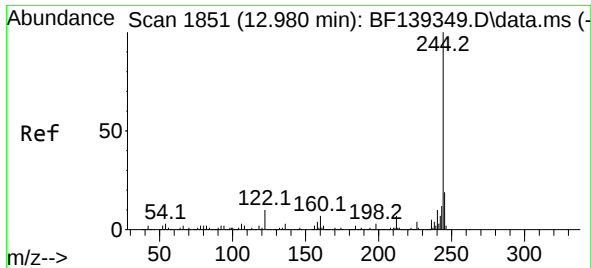
Lab File: BF139451.D

Acq: 19 Sep 2024 03:22

Tgt Ion:202 Resp: 319263

Ion	Ratio	Lower	Upper
202	100		
200	20.3	16.2	24.2
203	19.5	13.9	20.9





#79
 Terphenyl-d14
 Concen: 11.028 ng
 RT: 12.980 min Scan# 1851
 Delta R.T. -0.000 min
 Lab File: BF139451.D
 Acq: 19 Sep 2024 03:22

Instrument :

BNA_F

ClientSampleId :

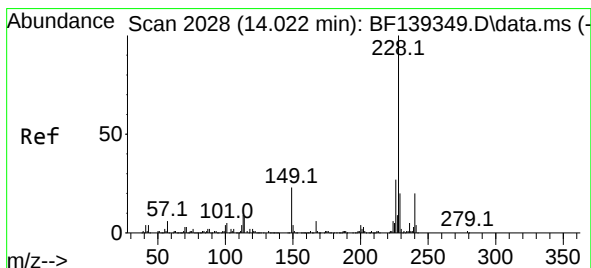
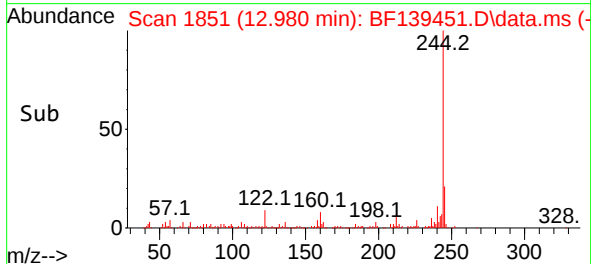
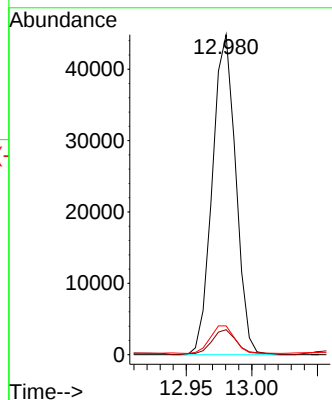
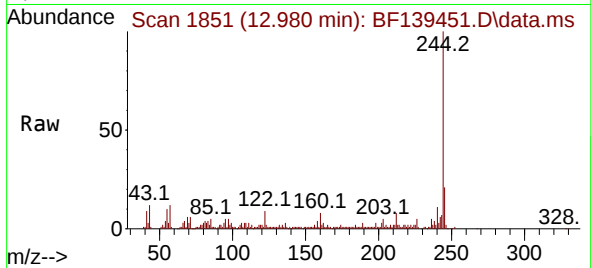
HR-04-091724

Tgt Ion:244 Resp: 5555
 Ion Ratio Lower Upper
 244 100
 212 7.8 6.0 9.0
 122 9.0 7.6 11.4

Manual Integrations

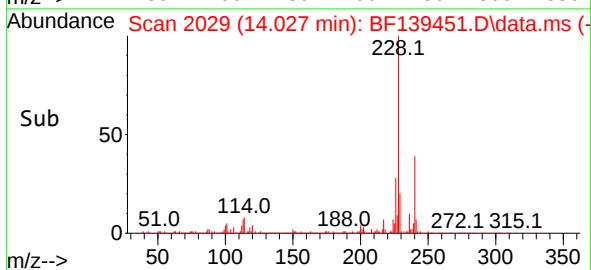
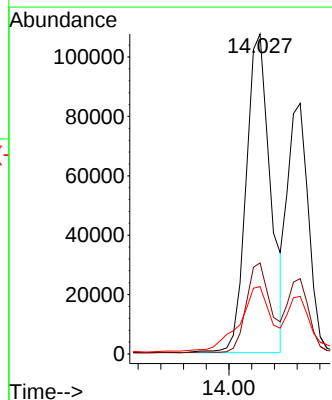
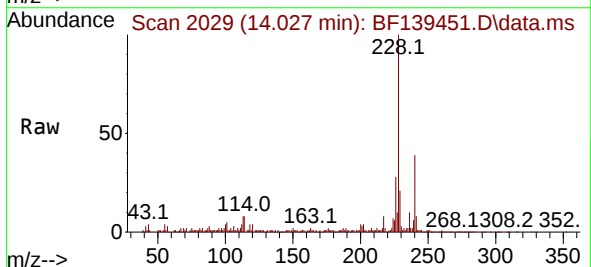
APPROVED

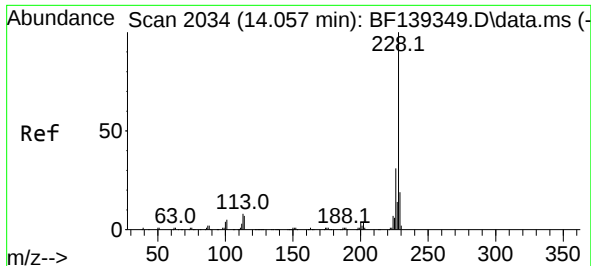
Reviewed By :Jagrut Upadhyay 09/19/2024
 Supervised By :mohammad ahmed 09/20/2024



#81
 Benzo(a)anthracene
 Concen: 29.205 ng
 RT: 14.027 min Scan# 2029
 Delta R.T. 0.006 min
 Lab File: BF139451.D
 Acq: 19 Sep 2024 03:22

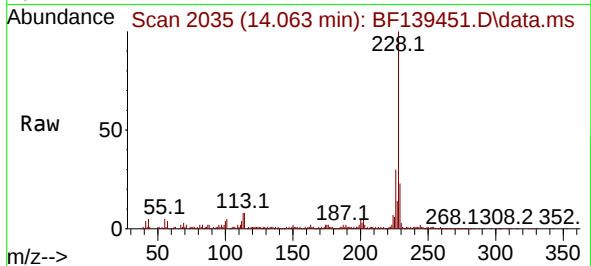
Tgt Ion:228 Resp: 159967
 Ion Ratio Lower Upper
 228 100
 226 28.4 21.6 32.4
 229 21.1 15.7 23.5





#83
Chrysene
Concen: 21.178 ng
RT: 14.063 min Scan# 2034
Delta R.T. 0.006 min
Lab File: BF139451.D
Acq: 19 Sep 2024 03:22

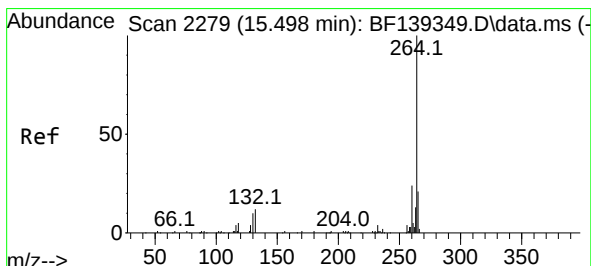
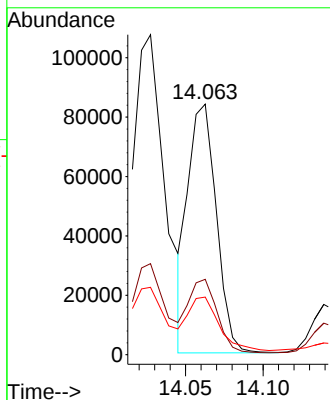
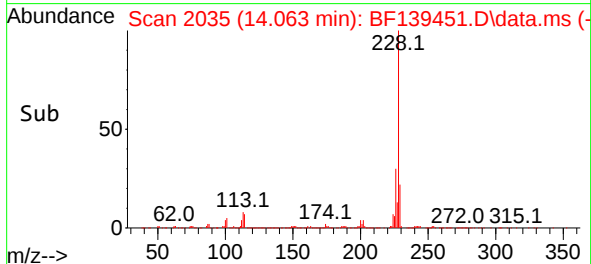
Instrument :
BNA_F
ClientSampleId :
HR-04-091724



Tgt Ion:228 Resp: 106720
Ion Ratio Lower Upper
228 100
226 30.1 24.1 36.1
229 23.0 15.4 23.0

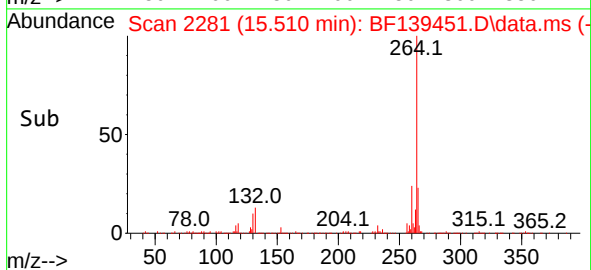
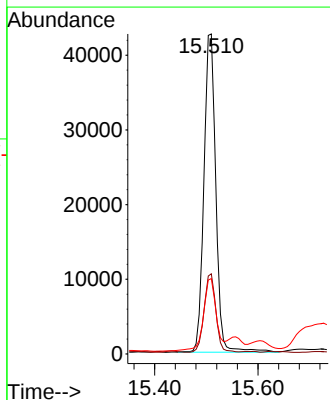
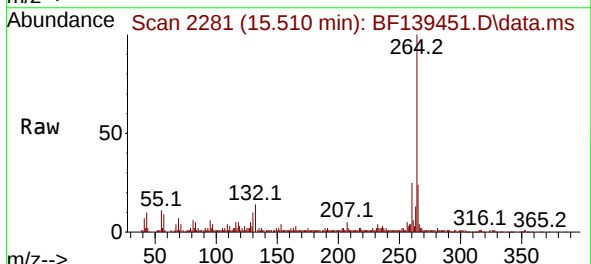
Manual Integrations
APPROVED

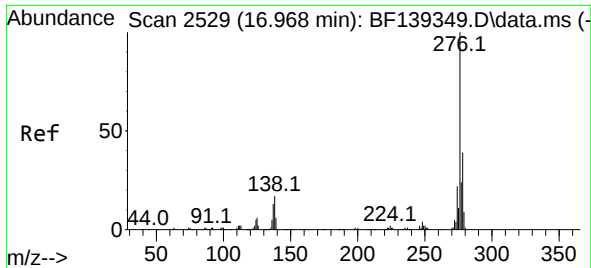
Reviewed By :Jagrut Upadhyay 09/19/2024
Supervised By :mohammad ahmed 09/20/2024



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.510 min Scan# 2281
Delta R.T. 0.012 min
Lab File: BF139451.D
Acq: 19 Sep 2024 03:22

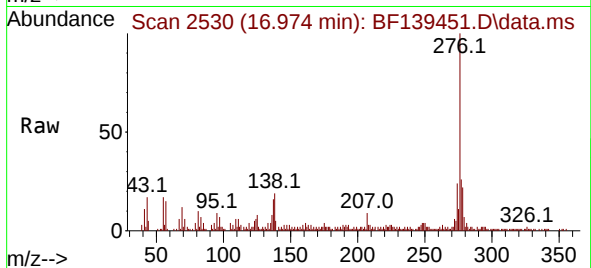
Tgt Ion:264 Resp: 68239
Ion Ratio Lower Upper
264 100
260 25.1 19.5 29.3
265 23.5 16.6 25.0





#87
Indeno(1,2,3-cd)pyrene
Concen: 10.653 ng
RT: 16.974 min Scan# 21
Delta R.T. 0.006 min
Lab File: BF139451.D
Acq: 19 Sep 2024 03:22

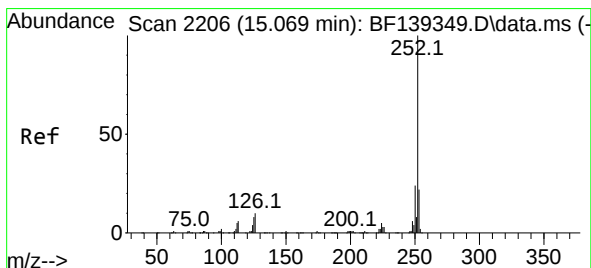
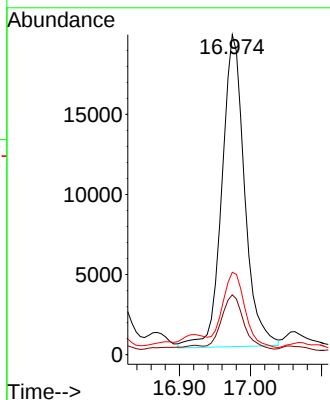
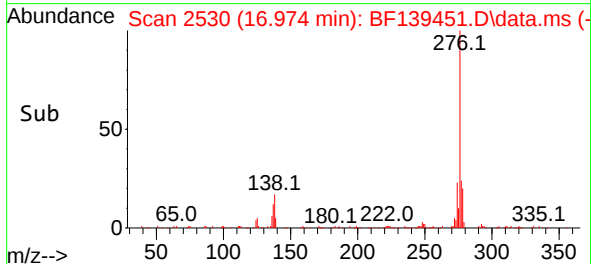
Instrument :
BNA_F
ClientSampleId :
HR-04-091724



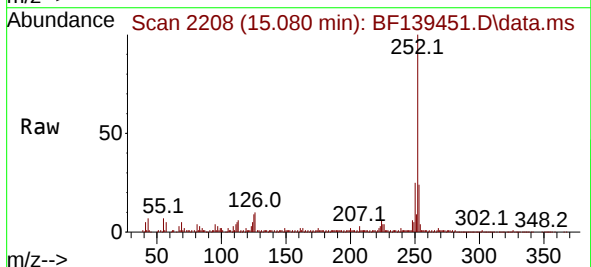
Tgt Ion:276 Resp: 43228
Ion Ratio Lower Upper
276 100
138 17.5 15.4 23.2
277 24.3 20.4 30.6

Manual Integrations
APPROVED

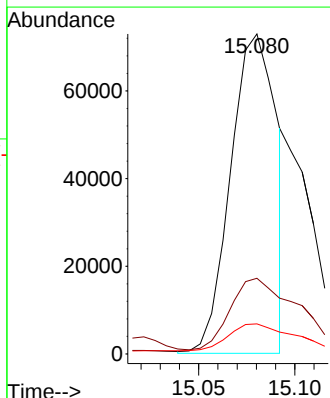
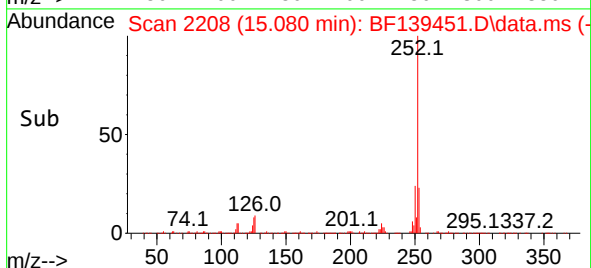
Reviewed By :Jagrut Upadhyay 09/19/2024
Supervised By :mohammad ahmed 09/20/2024

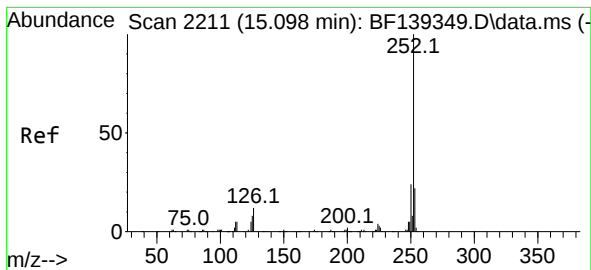


#88
Benzo(b)fluoranthene
Concen: 28.804 ng m
RT: 15.080 min Scan# 2208
Delta R.T. 0.012 min
Lab File: BF139451.D
Acq: 19 Sep 2024 03:22



Tgt Ion:252 Resp: 121223
Ion Ratio Lower Upper
252 100
253 23.7 17.6 26.4
125 9.4 6.2 9.2#





#89

Benzo(k)fluoranthene

Concen: 12.763 ng m

RT: 15.092 min Scan# 21

Delta R.T. -0.006 min

Lab File: BF139451.D

Acq: 19 Sep 2024 03:22

Instrument :

BNA_F

ClientSampleId :

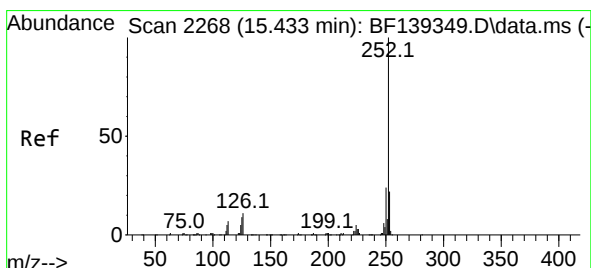
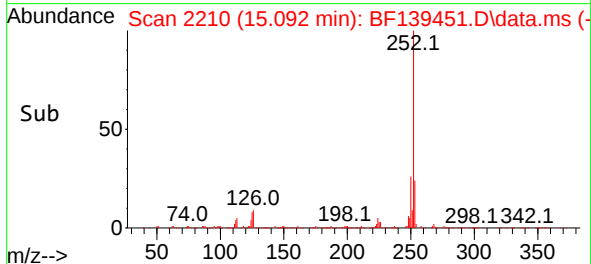
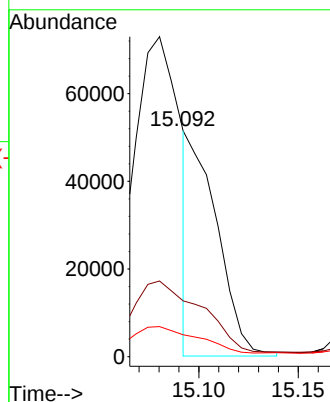
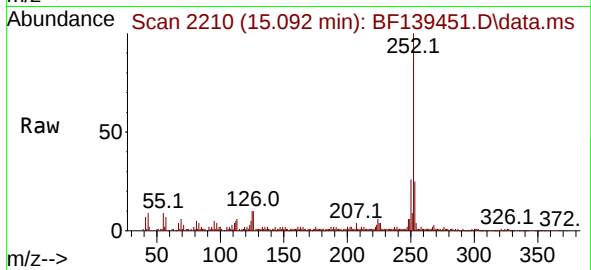
HR-04-091724

Tgt Ion:	252	Resp:	4952
Ion Ratio	Lower	Upper	
252	100		
253	24.7	17.3	25.9
125	9.7	5.9	8.9

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 09/19/2024
Supervised By :mohammad ahmed 09/20/2024



#90

Benzo(a)pyrene

Concen: 25.516 ng

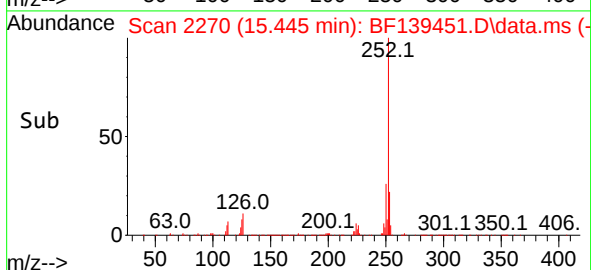
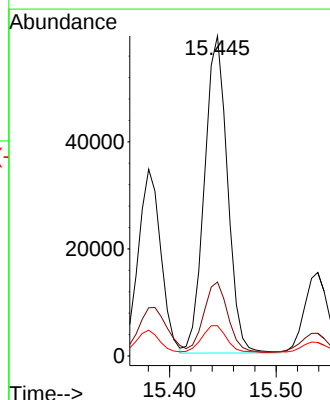
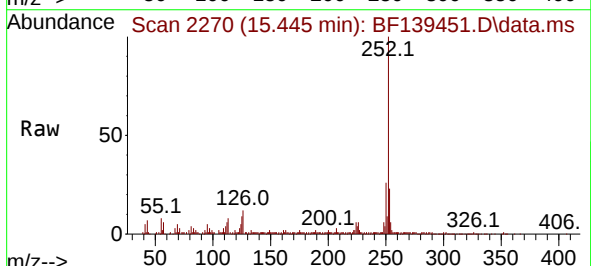
RT: 15.445 min Scan# 2270

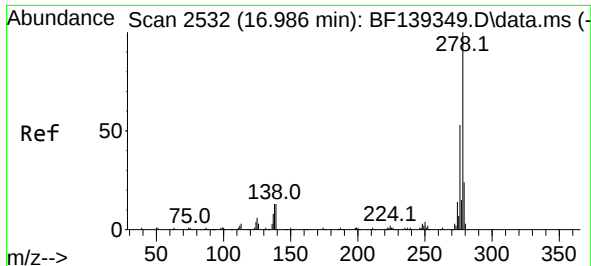
Delta R.T. 0.012 min

Lab File: BF139451.D

Acq: 19 Sep 2024 03:22

Tgt Ion:	252	Resp:	89061
Ion Ratio	Lower	Upper	
252	100		
253	23.1	17.3	25.9
125	9.5	6.8	10.2





#91

Dibenzo(a,h)anthracene

Concen: 3.358 ng

RT: 16.986 min Scan# 21

Delta R.T. -0.000 min

Lab File: BF139451.D

Acq: 19 Sep 2024 03:22

Instrument :

BNA_F

ClientSampleId :

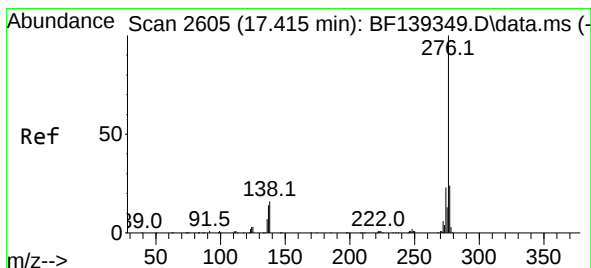
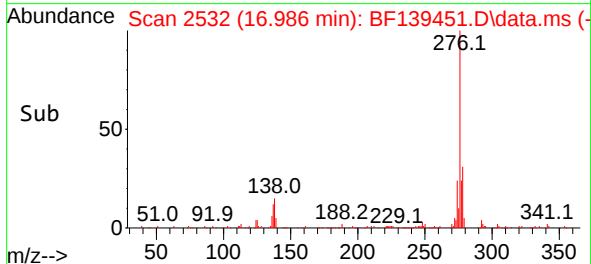
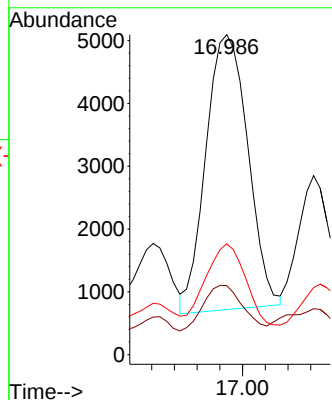
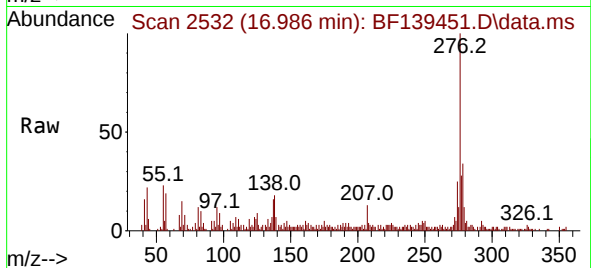
HR-04-091724

Tgt Ion:	278	Resp:	11260
Ion Ratio	Lower	Upper	
278	100		
139	21.6	10.2	15.2
279	34.6	18.9	28.3

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 09/19/2024
Supervised By :mohammad ahmed 09/20/2024



#92

Benzo(g,h,i)perylene

Concen: 10.839 ng

RT: 17.421 min Scan# 2606

Delta R.T. 0.006 min

Lab File: BF139451.D

Acq: 19 Sep 2024 03:22

Tgt Ion:	276	Resp:	35983
Ion Ratio	Lower	Upper	
276	100		
277	26.3	18.9	28.3
138	17.4	13.0	19.6

