

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF091624\
 Data File : BF139389.D
 Acq On : 16 Sep 2024 20:16
 Operator : RC/JU
 Sample : P3976-01
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 RW-2

Manual Integrations
 APPROVED

Reviewed By :Jagrut Upadhyay 09/17/2024
 Supervised By :mohammad ahmed 09/19/2024

Quant Time: Sep 17 01:39:13 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	54815	20.000	ng	0.00
21) Naphthalene-d8	8.157	136	188948	20.000	ng	0.00
39) Acenaphthene-d10	9.910	164	86424	20.000	ng	0.00
64) Phenanthrene-d10	11.398	188	141454	20.000	ng	0.00
76) Chrysene-d12	14.033	240	73207	20.000	ng	0.00
86) Perylene-d12	15.504	264	65831	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.498	112	283273	84.305	ng	0.00
7) Phenol-d6	6.504	99	364277	82.596	ng	0.00
23) Nitrobenzene-d5	7.439	82	242945	60.446	ng	0.00
42) 2,4,6-Tribromophenol	10.698	330	71014	77.182	ng	0.00
45) 2-Fluorobiphenyl	9.233	172	394069	63.951	ng	0.00
79) Terphenyl-d14	12.980	244	281131	63.033	ng	0.00
Target Compounds						Qvalue
49) Acenaphthylene	9.775	152	29230	3.906	ng	97
52) Acenaphthene	9.945	154	16278	3.117	ng	99
58) Fluorene	10.457	166	27151	4.571	ng	99
71) Phenanthrene	11.421	178	406299	59.535	ng	99
72) Anthracene	11.469	178	52565	7.878	ng	98
73) Carbazole	11.627	167	23552	3.688	ng	97
75) Fluoranthene	12.610	202	534621	73.356	ng	99
78) Pyrene	12.839	202	484044	77.006	ng	98
81) Benzo(a)anthracene	14.021	228	155708	32.110	ng	93
83) Chrysene	14.057	228	146040	32.735	ng	97
87) Indeno(1,2,3-cd)pyrene	16.968	276	41965	10.720	ng	95
88) Benzo(b)fluoranthene	15.074	252	129485m	31.893	ng	
89) Benzo(k)fluoranthene	15.092	252	38878m	10.386	ng	
90) Benzo(a)pyrene	15.439	252	90496	26.876	ng	98
91) Dibenzo(a,h)anthracene	16.980	278	11551	3.571	ng	# 85
92) Benzo(g,h,i)perylene	17.415	276	41590	12.986	ng	97

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

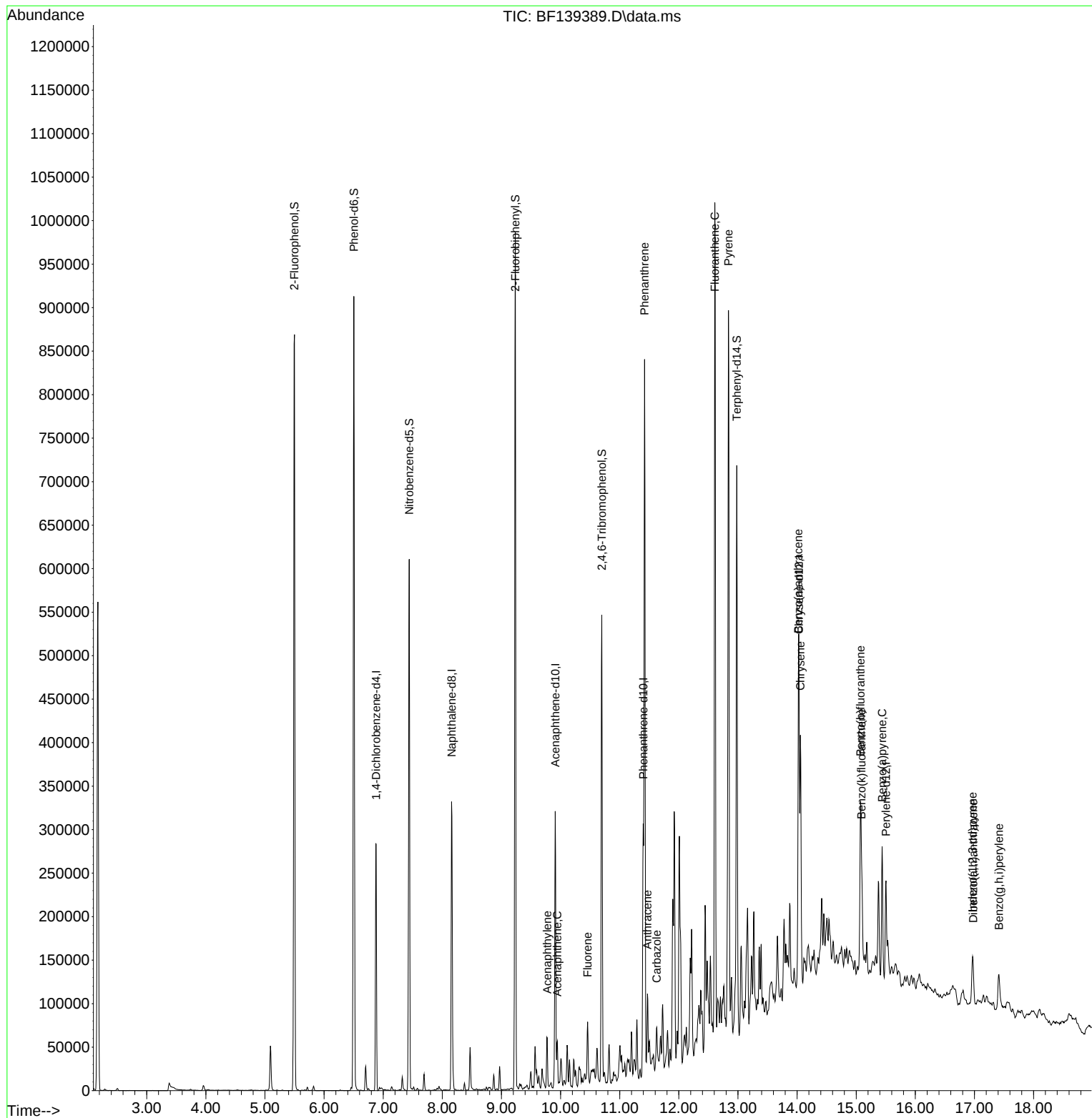
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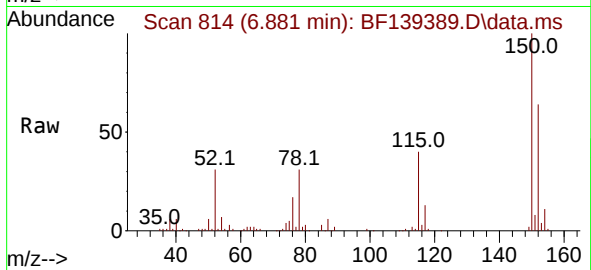
Reviewed By :Jagrut Upadhyay 09/17/2024
Supervised By :mohammad ahmed 09/19/2024





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.881 min Scan# 814
Delta R.T. -0.000 min
Lab File: BF139389.D
Acq: 16 Sep 2024 20:16

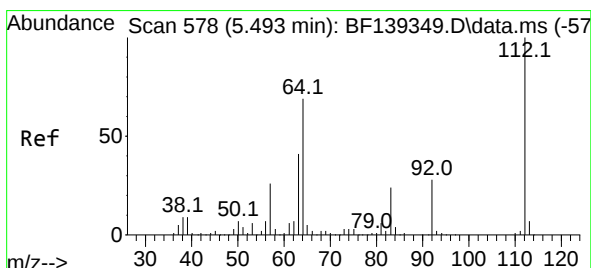
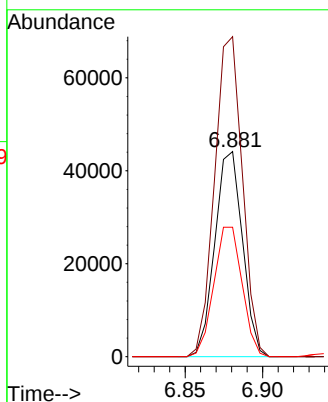
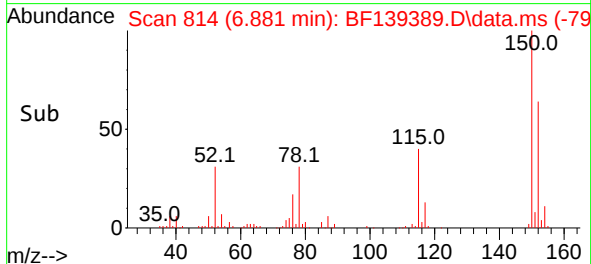
Instrument :
BNA_F
ClientSampleId :
RW-2



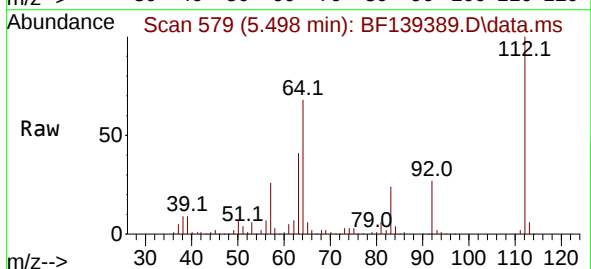
Tgt Ion:152 Resp: 54815
Ion Ratio Lower Upper
152 100
150 155.9 124.1 186.1
115 63.1 48.1 72.1

Manual Integrations
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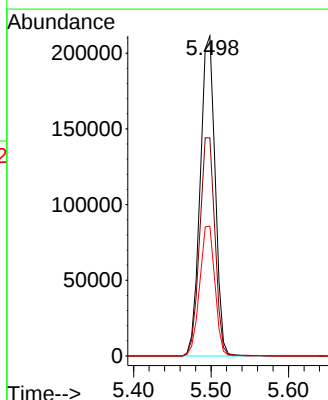
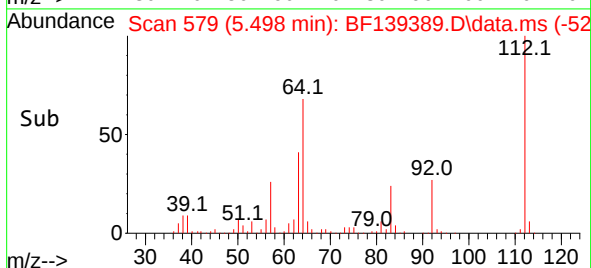
Reviewed By :Jagrut Upadhyay 09/17/2024
Supervised By :mohammad ahmed 09/19/2024

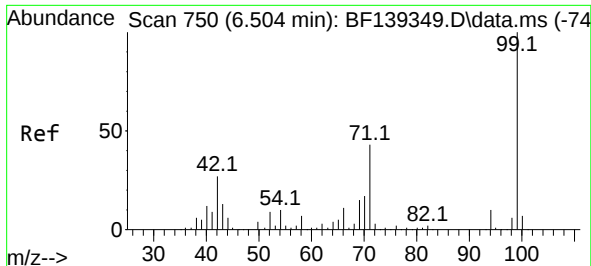


#5
2-Fluorophenol
Concen: 84.305 ng
RT: 5.498 min Scan# 579
Delta R.T. 0.005 min
Lab File: BF139389.D
Acq: 16 Sep 2024 20:16



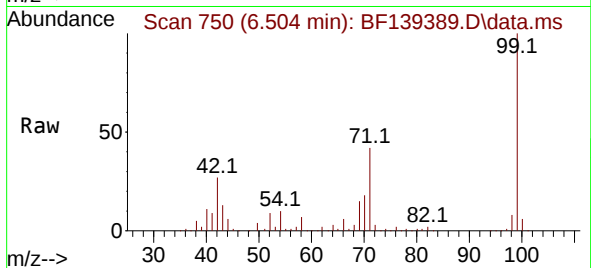
Tgt Ion:112 Resp: 283273
Ion Ratio Lower Upper
112 100
64 68.2 54.8 82.2
63 40.6 33.0 49.4





#7
Phenol-d6
Concen: 82.596 ng
RT: 6.504 min Scan# 71
Delta R.T. -0.000 min
Lab File: BF139389.D
Acq: 16 Sep 2024 20:16

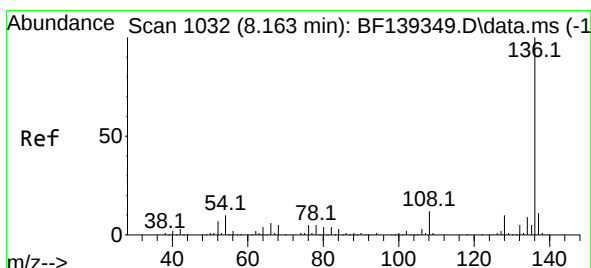
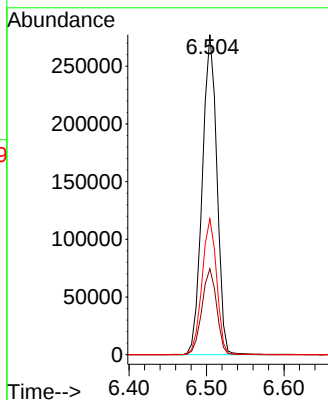
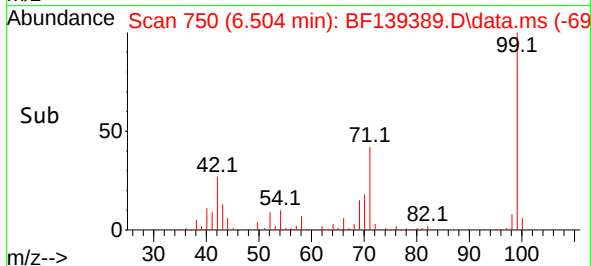
Instrument :
BNA_F
ClientSampleId :
RW-2



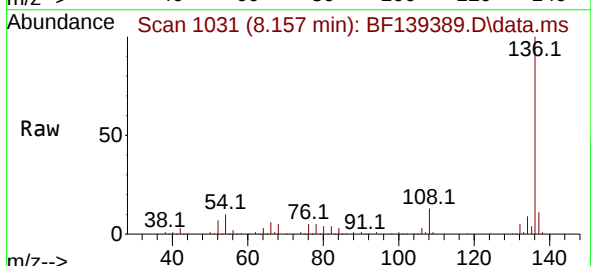
Tgt Ion: 99 Resp: 36427
Ion Ratio Lower Upper
99 100
42 26.8 21.9 32.9
71 42.5 34.6 52.0

Manual Integrations
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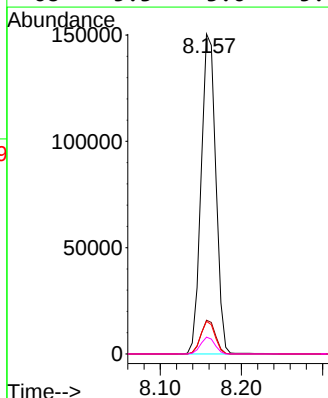
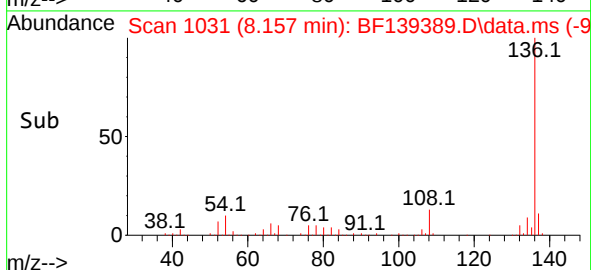
Reviewed By :Jagrut Upadhyay 09/17/2024
Supervised By :mohammad ahmed 09/19/2024



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.157 min Scan# 1031
Delta R.T. -0.006 min
Lab File: BF139389.D
Acq: 16 Sep 2024 20:16



Tgt Ion:136 Resp: 188948
Ion Ratio Lower Upper
136 100
137 10.6 8.6 12.8
54 10.2 7.8 11.8
68 5.3 3.6 5.4





#23

Nitrobenzene-d5

Concen: 60.446 ng

RT: 7.439 min Scan# 90

Delta R.T. -0.006 min

Lab File: BF139389.D

Acq: 16 Sep 2024 20:16

Instrument :

BNA_F

ClientSampleId :

RW-2

Tgt Ion: 82 Resp: 24294

Ion Ratio Lower Upper

82 100

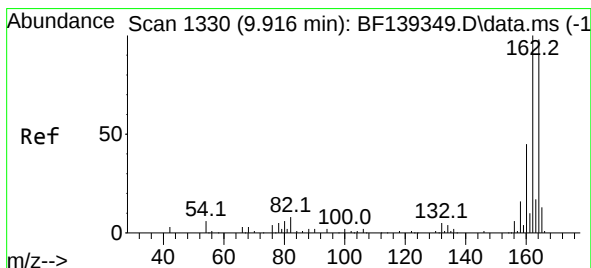
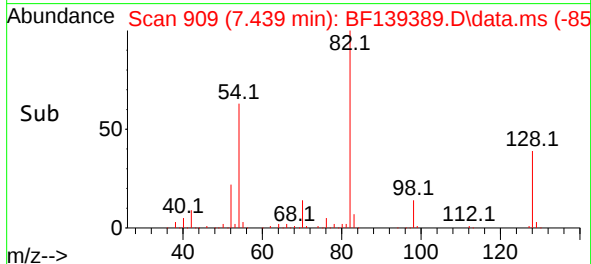
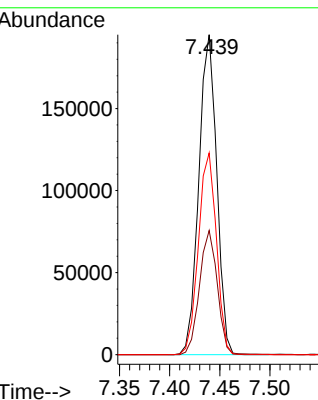
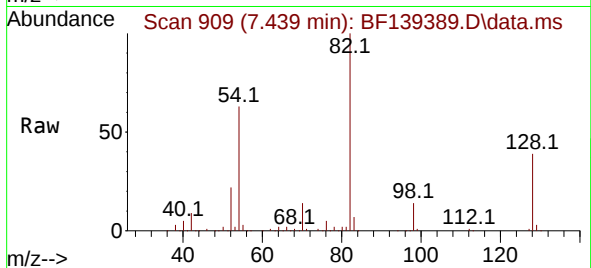
128 38.8 31.8 47.6

54 63.0 50.6 75.8

Manual Integrations

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Reviewed By :Jagrut Upadhyay 09/17/2024
Supervised By :mohammad ahmed 09/19/2024



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.910 min Scan# 1329

Delta R.T. -0.006 min

Lab File: BF139389.D

Acq: 16 Sep 2024 20:16

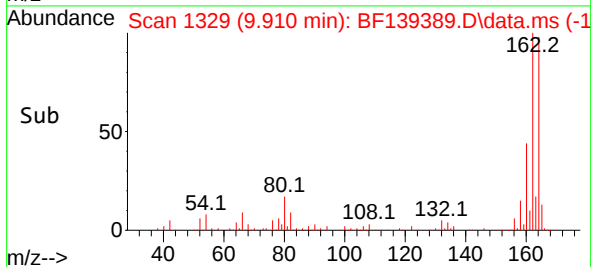
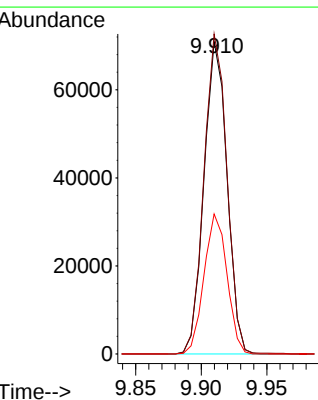
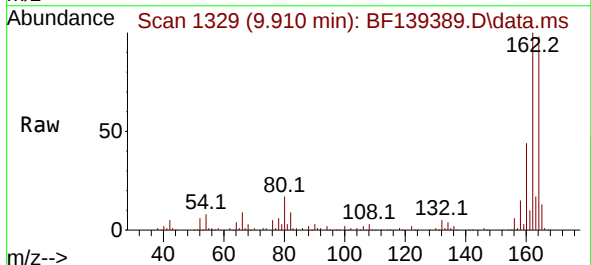
Tgt Ion:164 Resp: 86424

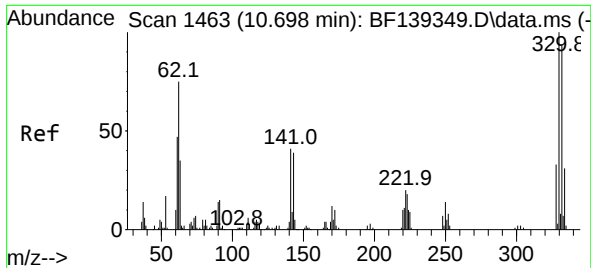
Ion Ratio Lower Upper

164 100

162 102.4 81.3 121.9

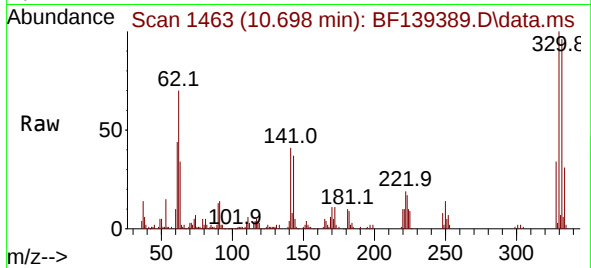
160 44.8 36.4 54.6





#42
2,4,6-Tribromophenol
Concen: 77.182 ng
RT: 10.698 min Scan# 1463
Delta R.T. -0.000 min
Lab File: BF139389.D
Acq: 16 Sep 2024 20:16

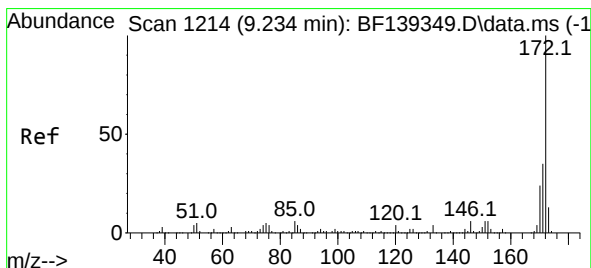
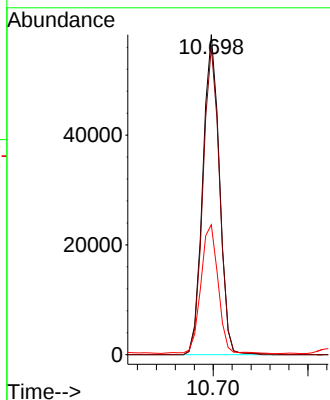
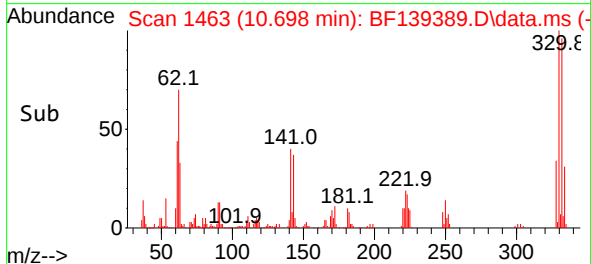
Instrument :
BNA_F
ClientSampleId :
RW-2



Tgt Ion:330 Resp: 71014
Ion Ratio Lower Upper
330 100
332 95.7 75.2 112.8
141 41.9 31.2 46.8

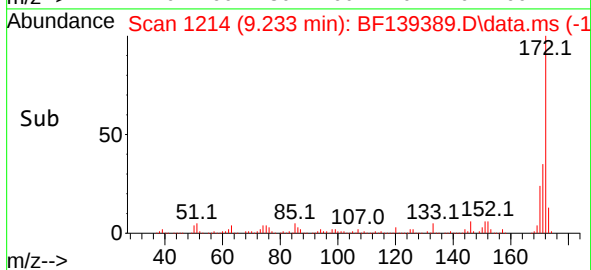
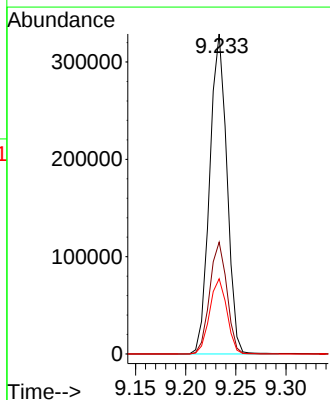
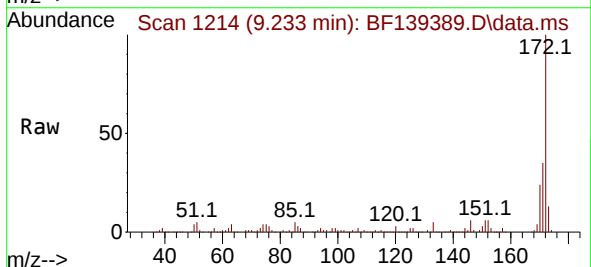
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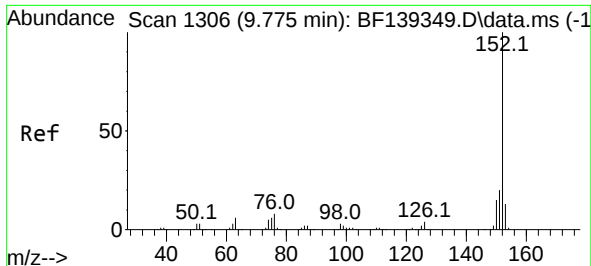
Reviewed By :Jagrut Upadhyay 09/17/2024
Supervised By :mohammad ahmed 09/19/2024



#45
2-Fluorobiphenyl
Concen: 63.951 ng
RT: 9.233 min Scan# 1214
Delta R.T. -0.000 min
Lab File: BF139389.D
Acq: 16 Sep 2024 20:16

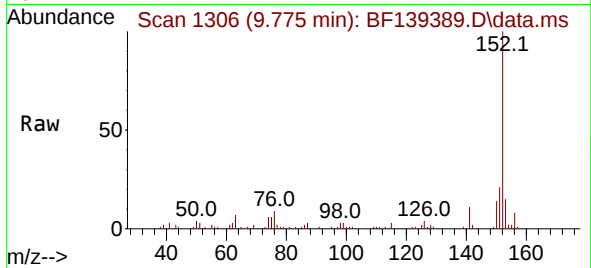
Tgt Ion:172 Resp: 394069
Ion Ratio Lower Upper
172 100
171 35.0 28.3 42.5
170 23.5 19.0 28.6





#49
Acenaphthylene
Concen: 3.906 ng
RT: 9.775 min Scan# 1306
Delta R.T. -0.000 min
Lab File: BF139389.D
Acq: 16 Sep 2024 20:16

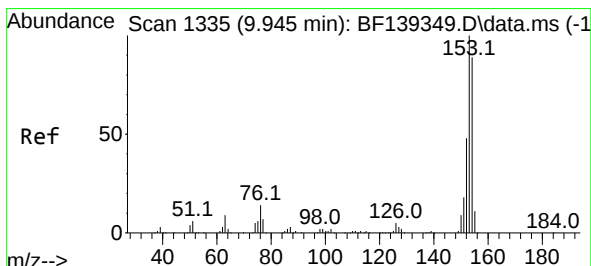
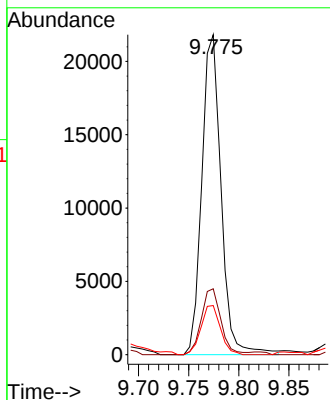
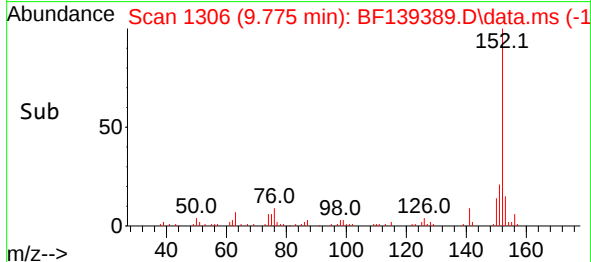
Instrument :
BNA_F
ClientSampleId :
RW-2



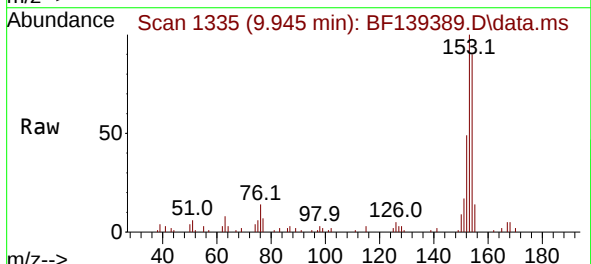
Tgt Ion:152 Resp: 29230
Ion Ratio Lower Upper
152 100
151 20.6 16.2 24.2
153 15.4 10.3 15.5

Manual Integrations
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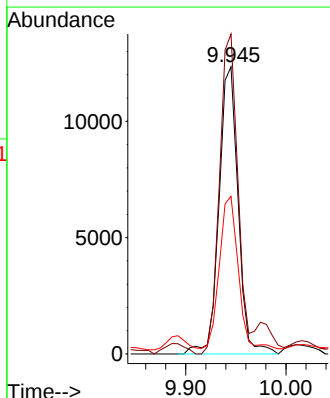
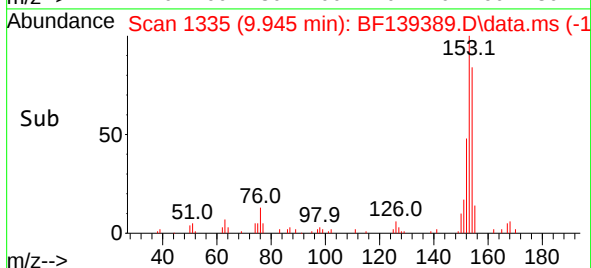
Reviewed By :Jagrut Upadhyay 09/17/2024
Supervised By :mohammad ahmed 09/19/2024

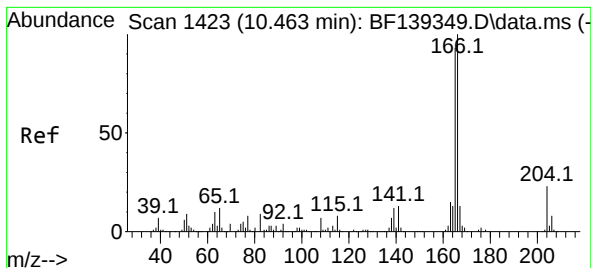


#52
Acenaphthene
Concen: 3.117 ng
RT: 9.945 min Scan# 1335
Delta R.T. -0.000 min
Lab File: BF139389.D
Acq: 16 Sep 2024 20:16



Tgt Ion:154 Resp: 16278
Ion Ratio Lower Upper
154 100
153 111.4 89.5 134.3
152 54.9 42.6 64.0





#58

Fluorene

Concen: 4.571 ng

RT: 10.457 min Scan# 1422

Delta R.T. -0.006 min

Lab File: BF139389.D

Acq: 16 Sep 2024 20:16

Instrument :

BNA_F

ClientSampleId :

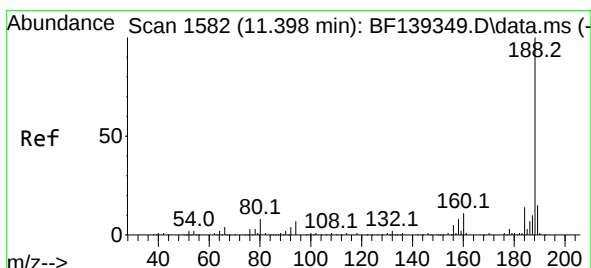
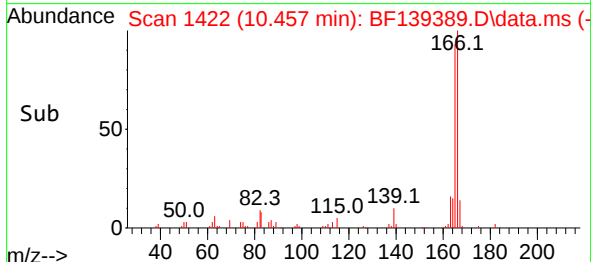
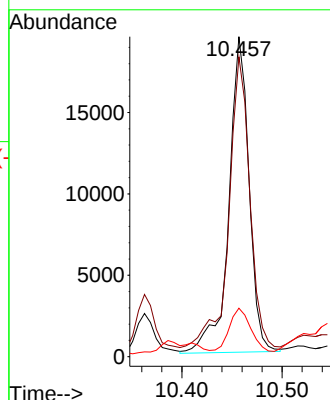
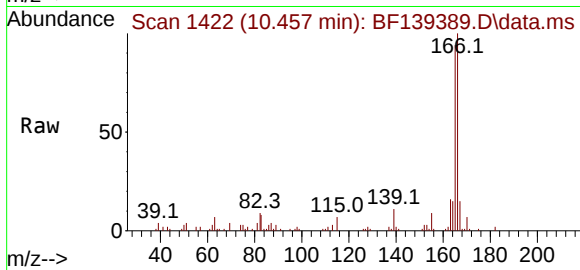
RW-2

Tgt Ion:166	Resp:	2715
Ion Ratio	Lower	Upper
166	100	
165	93.7	74.5 111.7
167	15.1	10.6 16.0

Manual Integrations

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Supervised By :mohammad ahmed 09/19/2024



#64

Phenanthrene-d10

Concen: 20.000 ng

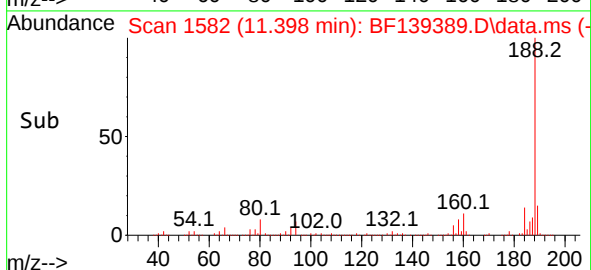
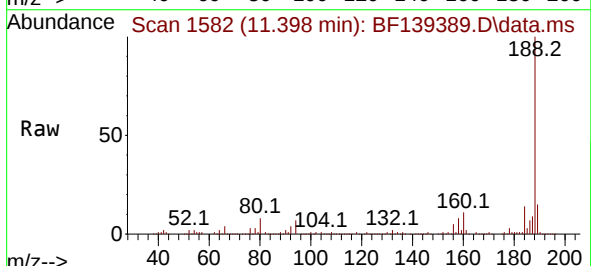
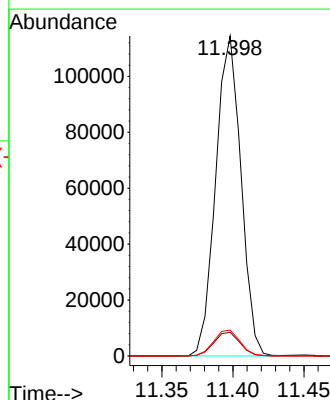
RT: 11.398 min Scan# 1582

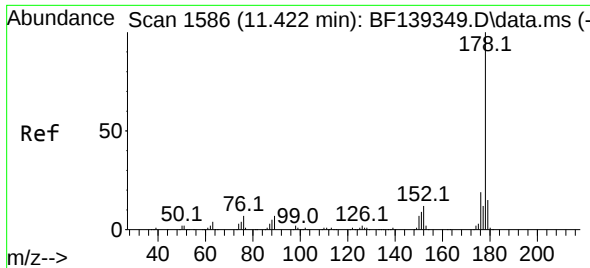
Delta R.T. -0.000 min

Lab File: BF139389.D

Acq: 16 Sep 2024 20:16

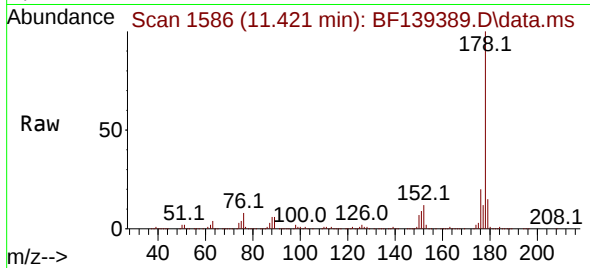
Tgt Ion:188	Resp:	141454
Ion Ratio	Lower	Upper
188	100	
94	7.4	5.5 8.3
80	8.1	6.6 9.8





#71
Phenanthrene
Concen: 59.535 ng
RT: 11.421 min Scan# 1586
Delta R.T. -0.000 min
Lab File: BF139389.D
Acq: 16 Sep 2024 20:16

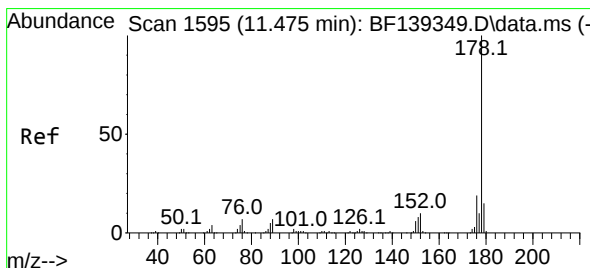
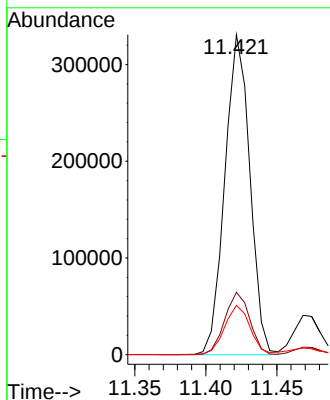
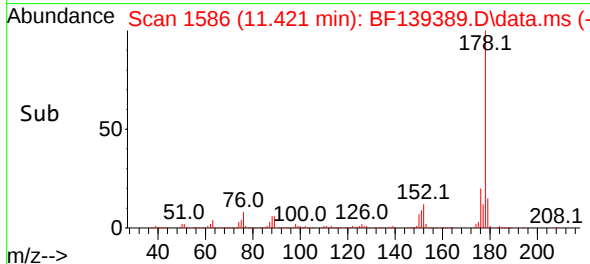
Instrument :
BNA_F
ClientSampleId :
RW-2



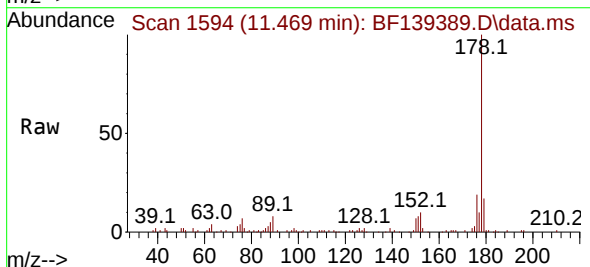
Tgt Ion:178 Resp: 406299
Ion Ratio Lower Upper
178 100
176 19.5 15.2 22.8
179 15.4 12.2 18.4

Manual Integrations
APPROVED

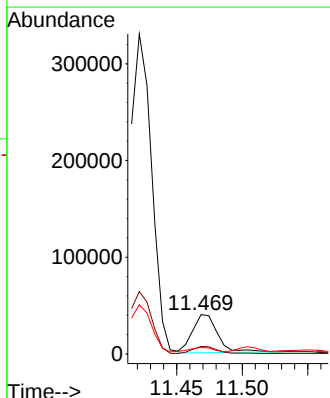
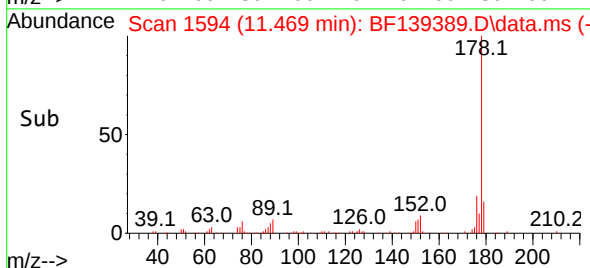
Reviewed By :Jagrut Upadhyay 09/17/2024
Supervised By :mohammad ahmed 09/19/2024

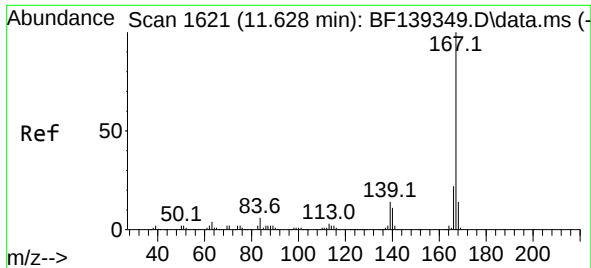


#72
Anthracene
Concen: 7.878 ng
RT: 11.469 min Scan# 1594
Delta R.T. -0.006 min
Lab File: BF139389.D
Acq: 16 Sep 2024 20:16



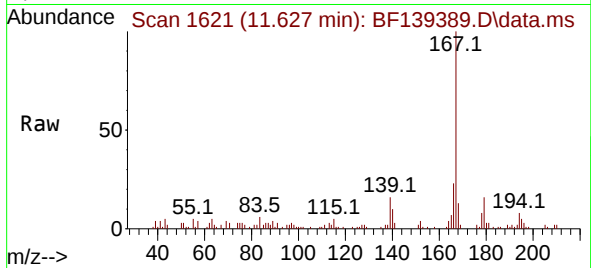
Tgt Ion:178 Resp: 52565
Ion Ratio Lower Upper
178 100
176 18.9 15.0 22.6
179 16.8 12.0 18.0





#73
 Carbazole
 Concen: 3.688 ng
 RT: 11.627 min Scan# 1621
 Delta R.T. -0.000 min
 Lab File: BF139389.D
 Acq: 16 Sep 2024 20:16

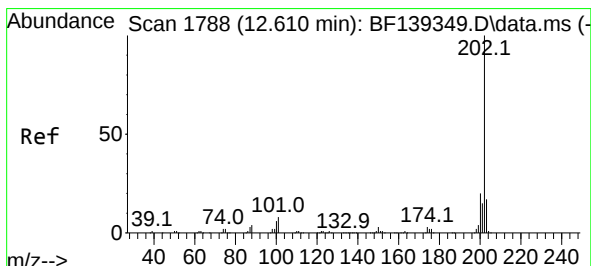
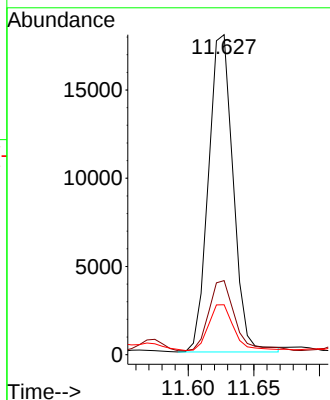
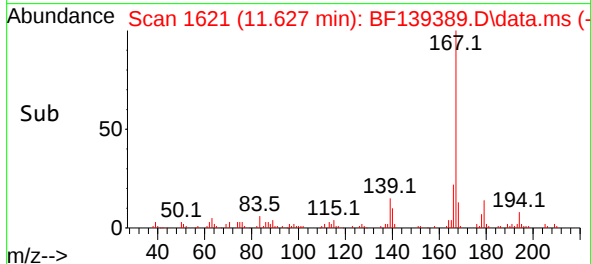
Instrument :
 BNA_F
 ClientSampleId :
 RW-2



Tgt Ion	Ratio	Lower	Upper
167	100		
166	23.1	17.5	26.3
139	15.6	10.9	16.3

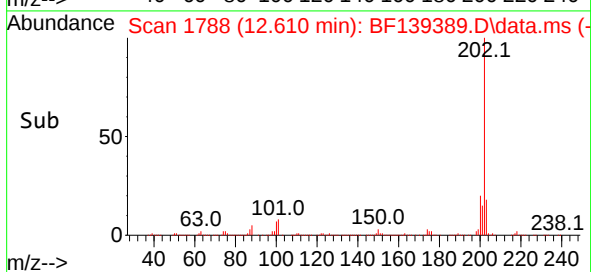
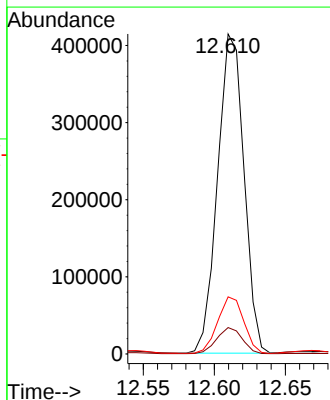
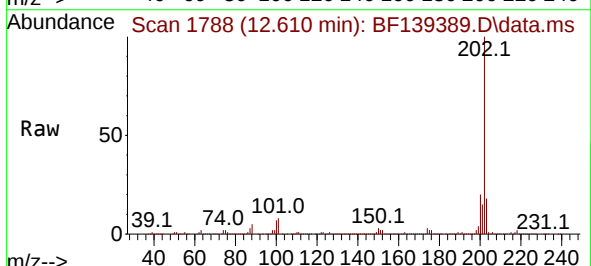
Manual Integrations
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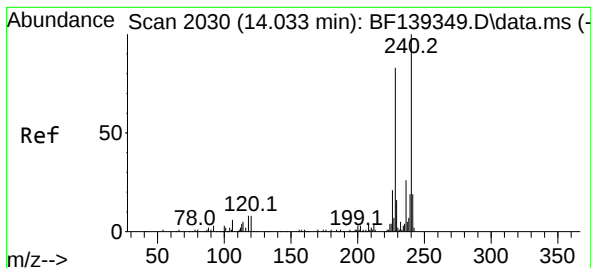
Reviewed By :Jagrut Upadhyay 09/17/2024
 Supervised By :mohammad ahmed 09/19/2024



#75
 Fluoranthene
 Concen: 73.356 ng
 RT: 12.610 min Scan# 1788
 Delta R.T. -0.000 min
 Lab File: BF139389.D
 Acq: 16 Sep 2024 20:16

Tgt Ion	Ratio	Lower	Upper
202	100		
101	8.3	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: BF139389.D

Acq: 16 Sep 2024 20:16

Instrument :

BNA_F

ClientSampleId :

RW-2

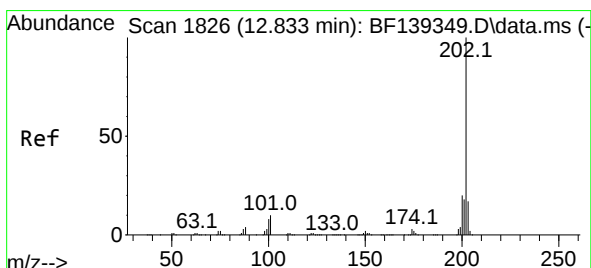
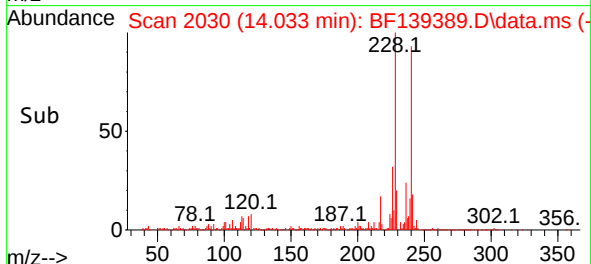
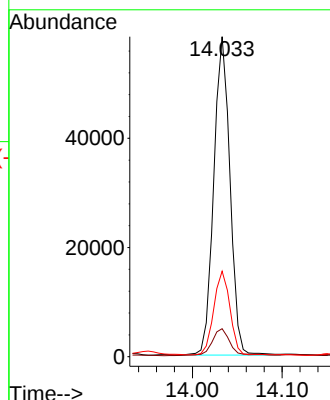
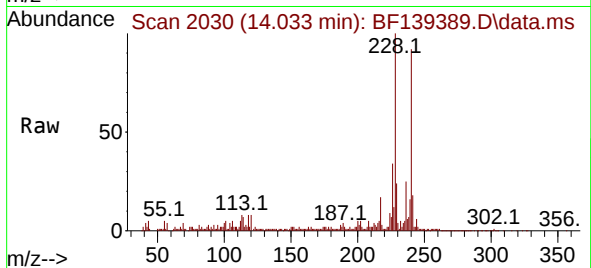
Tgt Ion:240 Resp: 7320

Ion	Ratio	Lower	Upper
240	100		
120	8.8	6.2	9.2
236	26.7	20.9	31.3

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 09/17/2024
Supervised By :mohammad ahmed 09/19/2024



#78

Pyrene

Concen: 77.006 ng

RT: 12.839 min Scan# 1827

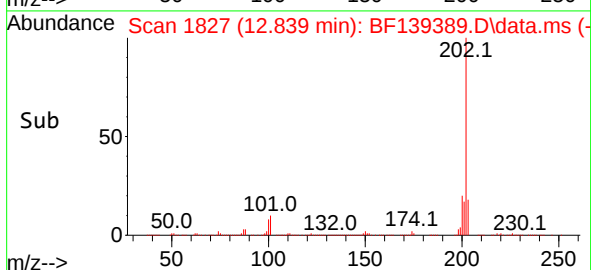
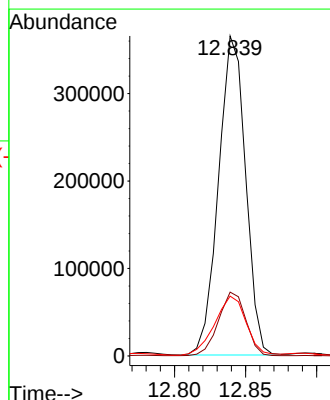
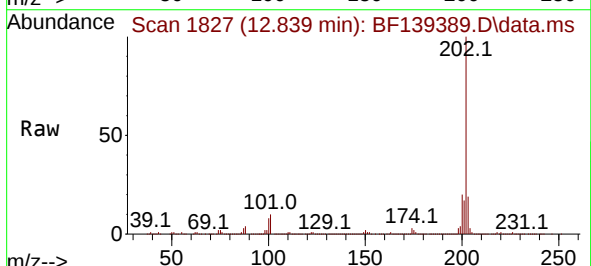
Delta R.T. 0.006 min

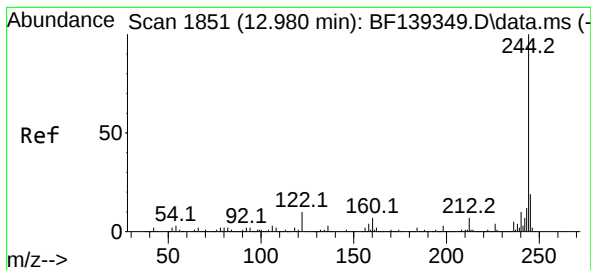
Lab File: BF139389.D

Acq: 16 Sep 2024 20:16

Tgt Ion:202 Resp: 484044

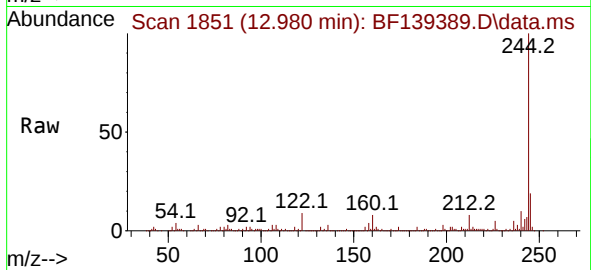
Ion	Ratio	Lower	Upper
202	100		
200	20.0	16.2	24.2
203	18.7	13.9	20.9





#79
 Terphenyl-d14
 Concen: 63.033 ng
 RT: 12.980 min Scan# 1851
 Delta R.T. -0.000 min
 Lab File: BF139389.D
 Acq: 16 Sep 2024 20:16

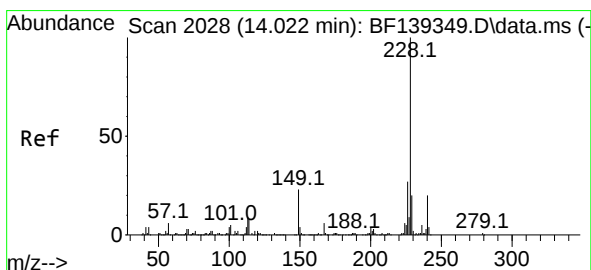
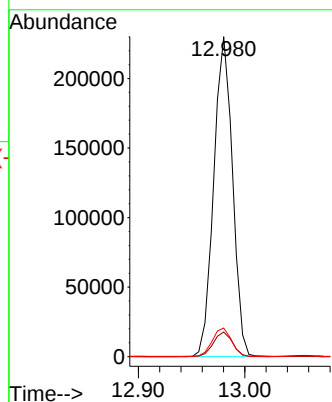
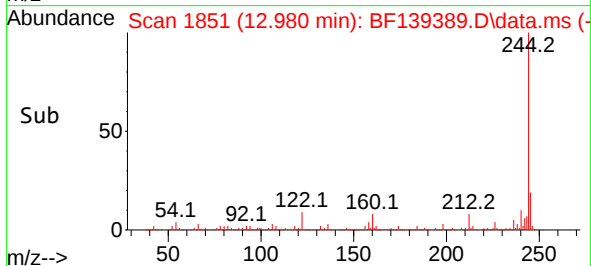
Instrument :
 BNA_F
 ClientSampleId :
 RW-2



Tgt Ion:244 Resp: 28113
 Ion Ratio Lower Upper
 244 100
 212 7.7 6.0 9.0
 122 9.0 7.6 11.4

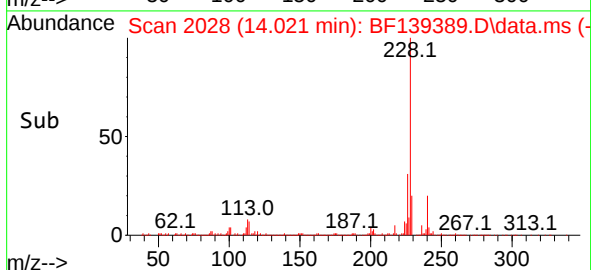
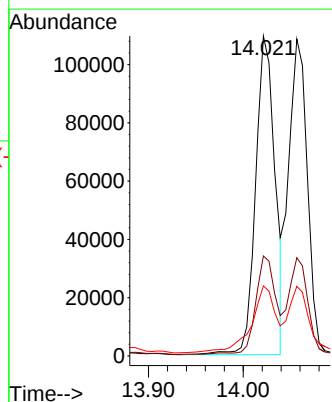
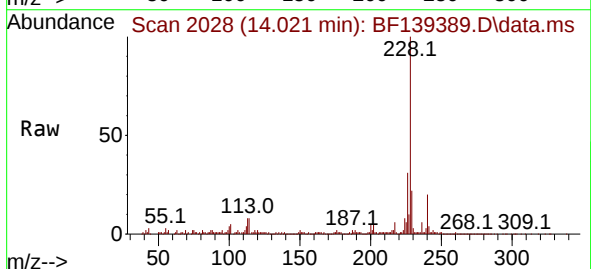
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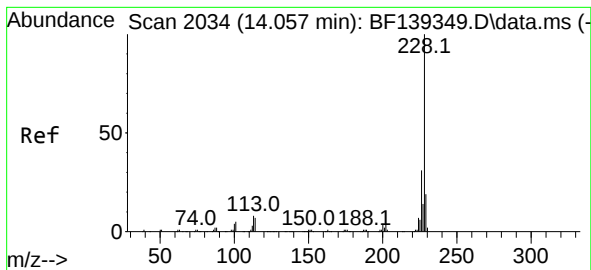
Reviewed By :Jagrut Upadhyay 09/17/2024
 Supervised By :mohammad ahmed 09/19/2024



#81
 Benzo(a)anthracene
 Concen: 32.110 ng
 RT: 14.021 min Scan# 2028
 Delta R.T. -0.000 min
 Lab File: BF139389.D
 Acq: 16 Sep 2024 20:16

Tgt Ion:228 Resp: 155708
 Ion Ratio Lower Upper
 228 100
 226 31.3 21.6 32.4
 229 21.9 15.7 23.5





#83

Chrysene

Concen: 32.735 ng

RT: 14.057 min Scan# 2034

Delta R.T. -0.000 min

Lab File: BF139389.D

Acq: 16 Sep 2024 20:16

Instrument :

BNA_F

ClientSampleId :

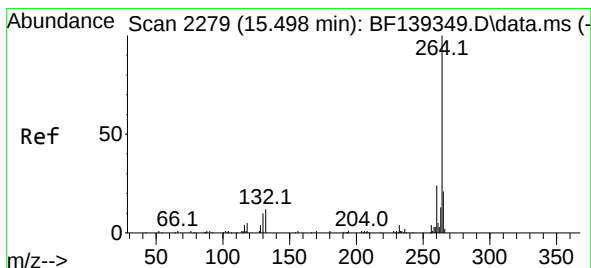
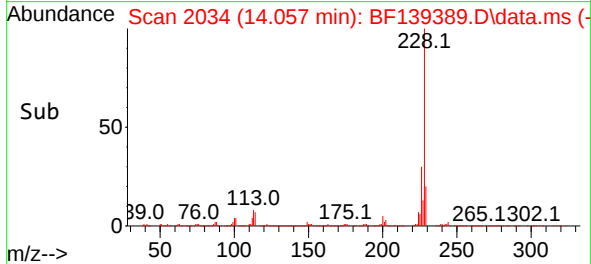
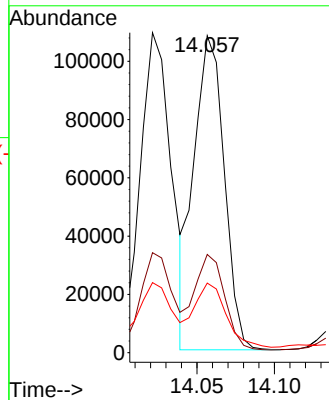
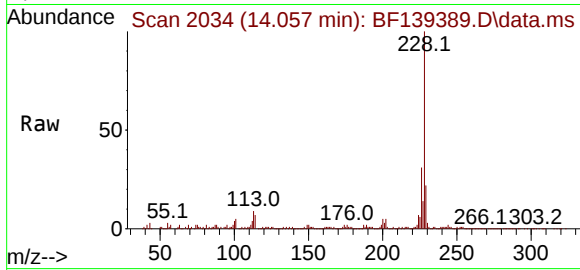
RW-2

Tgt Ion:	228	Resp:	146040
Ion Ratio	Lower	Upper	
228	100		
226	31.0	24.1	36.1
229	22.0	15.4	23.0

Manual Integrations

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Reviewed By :Jagrut Upadhyay 09/17/2024
Supervised By :mohammad ahmed 09/19/2024



#86

Perylene-d12

Concen: 20.000 ng

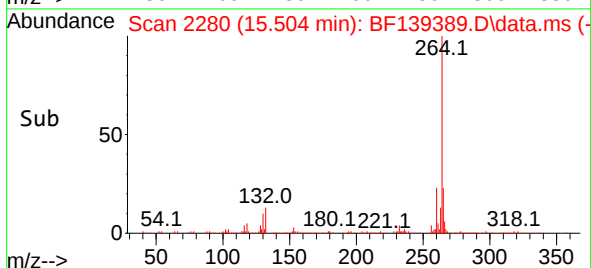
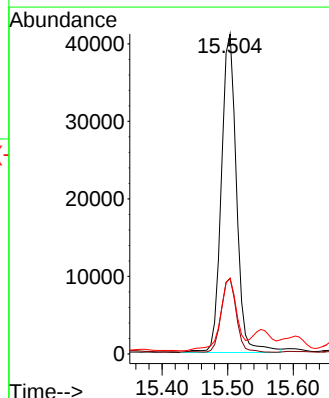
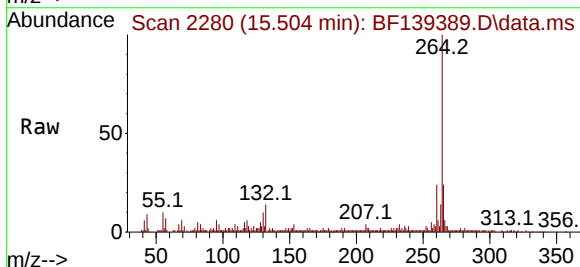
RT: 15.504 min Scan# 2280

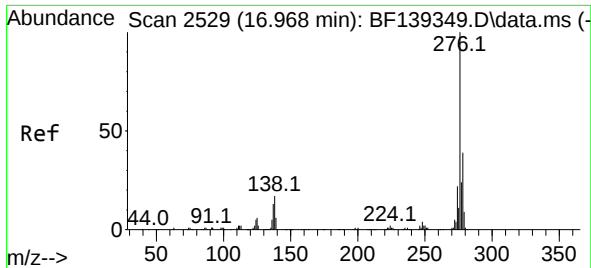
Delta R.T. 0.006 min

Lab File: BF139389.D

Acq: 16 Sep 2024 20:16

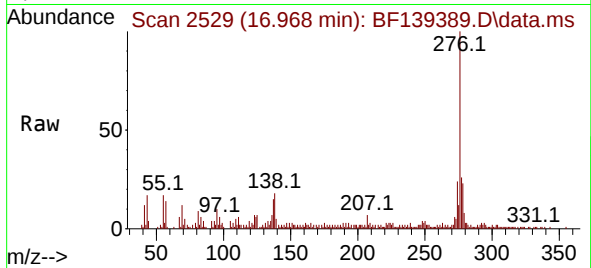
Tgt Ion:	264	Resp:	65831
Ion Ratio	Lower	Upper	
264	100		
260	23.6	19.5	29.3
265	23.7	16.6	25.0





#87
Indeno(1,2,3-cd)pyrene
Concen: 10.720 ng
RT: 16.968 min Scan# 21
Delta R.T. -0.000 min
Lab File: BF139389.D
Acq: 16 Sep 2024 20:16

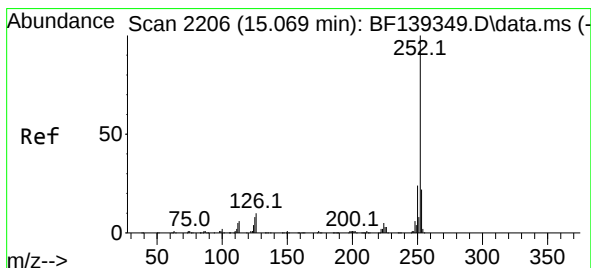
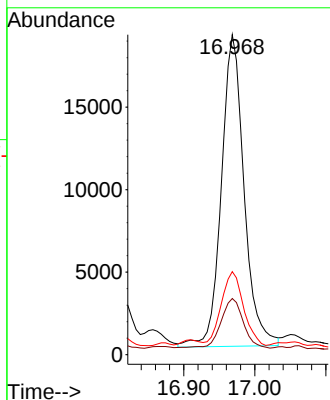
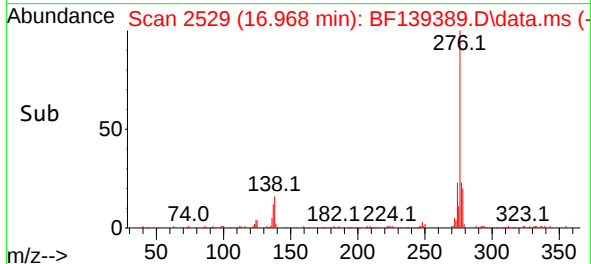
Instrument :
BNA_F
ClientSampleId :
RW-2



Tgt Ion:276 Resp: 41968
Ion Ratio Lower Upper
276 100
138 15.9 15.4 23.2
277 23.7 20.4 30.6

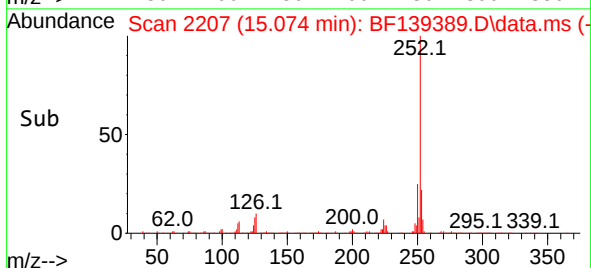
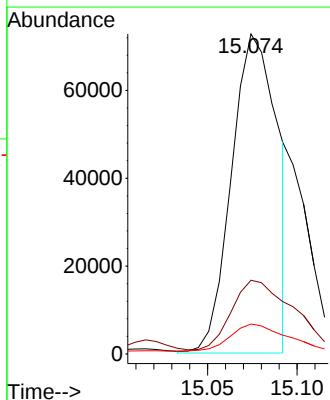
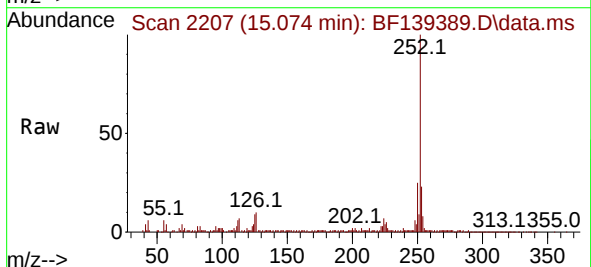
Manual Integrations
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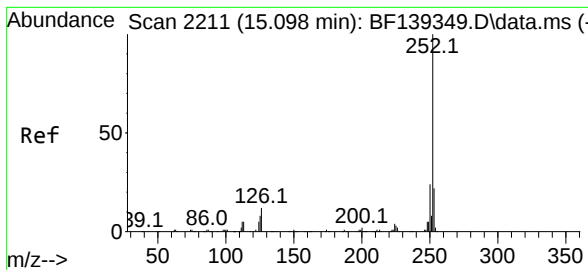
Reviewed By :Jagrut Upadhyay 09/17/2024
Supervised By :mohammad ahmed 09/19/2024



#88
Benzo(b)fluoranthene
Concen: 31.893 ng m
RT: 15.074 min Scan# 2207
Delta R.T. 0.006 min
Lab File: BF139389.D
Acq: 16 Sep 2024 20:16

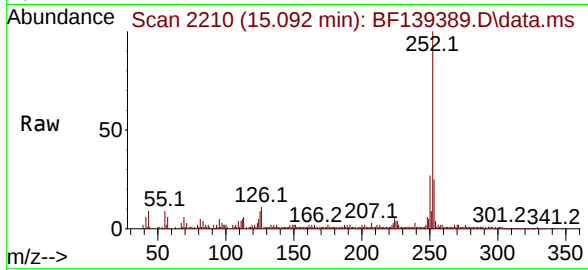
Tgt Ion:252 Resp: 129485
Ion Ratio Lower Upper
252 100
253 23.0 17.6 26.4
125 9.3 6.2 9.2#





#89
 Benzo(k)fluoranthene
 Concen: 10.386 ng m
 RT: 15.092 min Scan# 21
 Delta R.T. -0.006 min
 Lab File: BF139389.D
 Acq: 16 Sep 2024 20:16

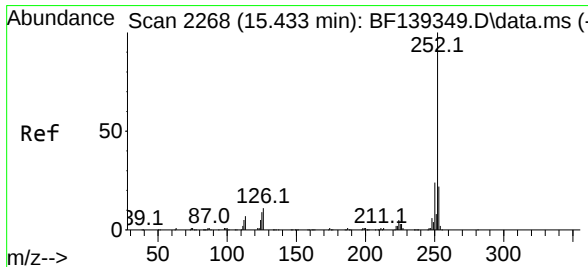
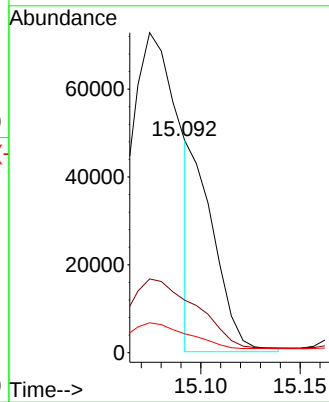
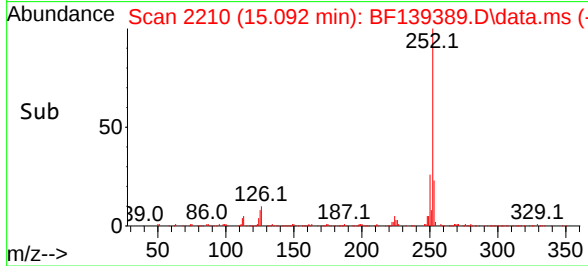
Instrument :
 BNA_F
 ClientSampleId :
 RW-2



Tgt Ion:252 Resp: 38878
 Ion Ratio Lower Upper
 252 100
 253 24.7 17.3 25.9
 125 8.9 5.9 8.9

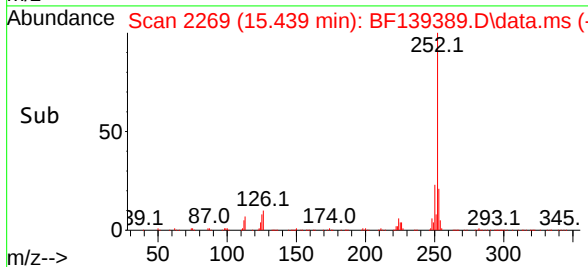
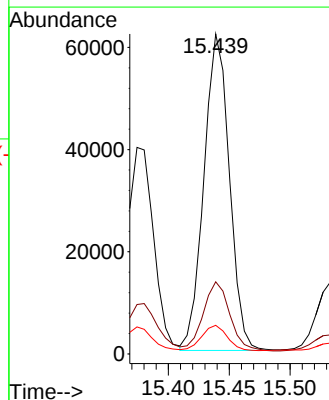
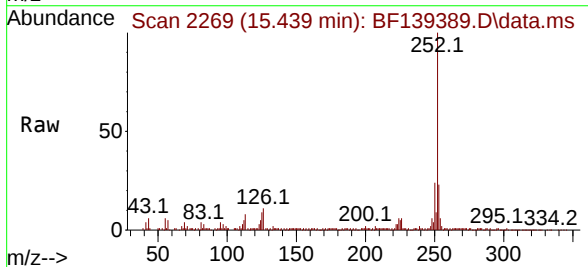
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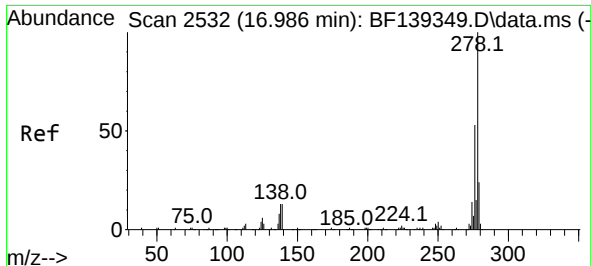
Reviewed By :Jagrut Upadhyay 09/17/2024
 Supervised By :mohammad ahmed 09/19/2024



#90
 Benzo(a)pyrene
 Concen: 26.876 ng
 RT: 15.439 min Scan# 2269
 Delta R.T. 0.006 min
 Lab File: BF139389.D
 Acq: 16 Sep 2024 20:16

Tgt Ion:252 Resp: 90496
 Ion Ratio Lower Upper
 252 100
 253 22.5 17.3 25.9
 125 9.0 6.8 10.2





#91

Dibenzo(a,h)anthracene

Concen: 3.571 ng

RT: 16.980 min Scan# 21

Delta R.T. -0.006 min

Lab File: BF139389.D

Acq: 16 Sep 2024 20:16

Instrument :

BNA_F

ClientSampleId :

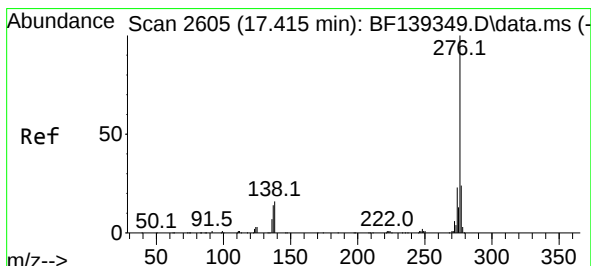
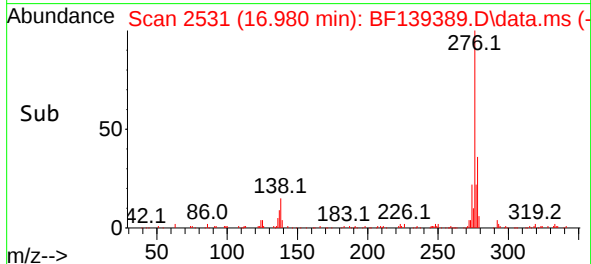
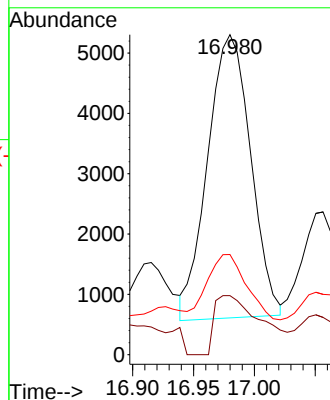
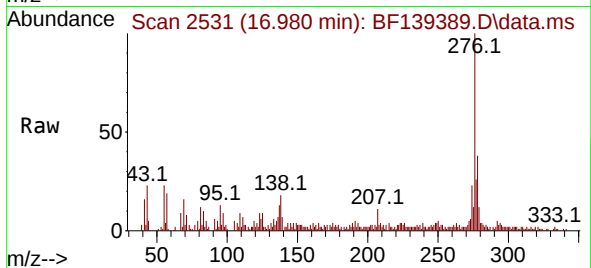
RW-2

Tgt Ion:	278	Resp:	1155
Ion Ratio	Lower	Upper	
278	100		
139	18.4	10.2	15.2
279	31.3	18.9	28.3

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 09/17/2024
Supervised By :mohammad ahmed 09/19/2024



#92

Benzo(g,h,i)perylene

Concen: 12.986 ng

RT: 17.415 min Scan# 2605

Delta R.T. -0.000 min

Lab File: BF139389.D

Acq: 16 Sep 2024 20:16

Tgt Ion:	276	Resp:	41590
Ion Ratio	Lower	Upper	
276	100		
277	25.7	18.9	28.3
138	17.0	13.0	19.6

