

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101323\
 Data File : BF135760.D
 Acq On : 13 Oct 2023 19:10
 Operator : CG\JU
 Sample : 04830-01
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 RT-2327

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 10/16/2023
 Supervised By :mohammad ahmed 10/17/2023

Quant Time: Oct 13 19:28:49 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101323.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Oct 13 17:12:59 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.734	152	112123	20.000	ng	0.00
21) Naphthalene-d8	8.016	136	400241	20.000	ng	0.00
39) Acenaphthene-d10	9.775	164	193977	20.000	ng	0.00
64) Phenanthrene-d10	11.269	188	324678	20.000	ng	0.00
76) Chrysene-d12	13.933	240	187590	20.000	ng	-0.01
86) Perylene-d12	15.410	264	245456	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.375	112	713394	102.295	ng	0.00
7) Phenol-d6	6.387	99	850781	97.774	ng	-0.01
23) Nitrobenzene-d5	7.304	82	498831	68.547	ng	-0.01
42) 2,4,6-Tribromophenol	10.569	330	184766	99.264	ng	-0.01
45) 2-Fluorobiphenyl	9.092	172	841589	67.834	ng	-0.01
79) Terphenyl-d14	12.863	244	697770	68.885	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	8.040	128	39590	2.028	ng	99
52) Acenaphthene	9.804	154	23456	2.208	ng	96
55) Dibenzofuran	9.986	168	35361	2.206	ng	95
58) Fluorene	10.328	166	32877	2.620	ng	97
70) Pentachlorophenol	11.092	266	4771	3.646	ng	95
71) Phenanthrene	11.292	178	390551	25.110	ng	100
72) Anthracene	11.345	178	79762	4.949	ng	96
75) Fluoranthene	12.492	202	319240	18.493	ng	98
78) Pyrene	12.722	202	283788	19.037	ng	99
81) Benzo(a)anthracene	13.927	228	102499	8.319	ng	99
83) Chrysene	13.963	228	104067	8.720	ng	98
87) Indeno(1,2,3-cd)pyrene	16.921	276	42702	3.193	ng	95
88) Benzo(b)fluoranthene	14.980	252	125920m	9.166	ng	
89) Benzo(k)fluoranthene	15.010	252	34507m	2.587	ng	
90) Benzo(a)pyrene	15.351	252	84250	6.522	ng	97
92) Benzo(g,h,i)perylene	17.380	276	36577	3.248	ng	99

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

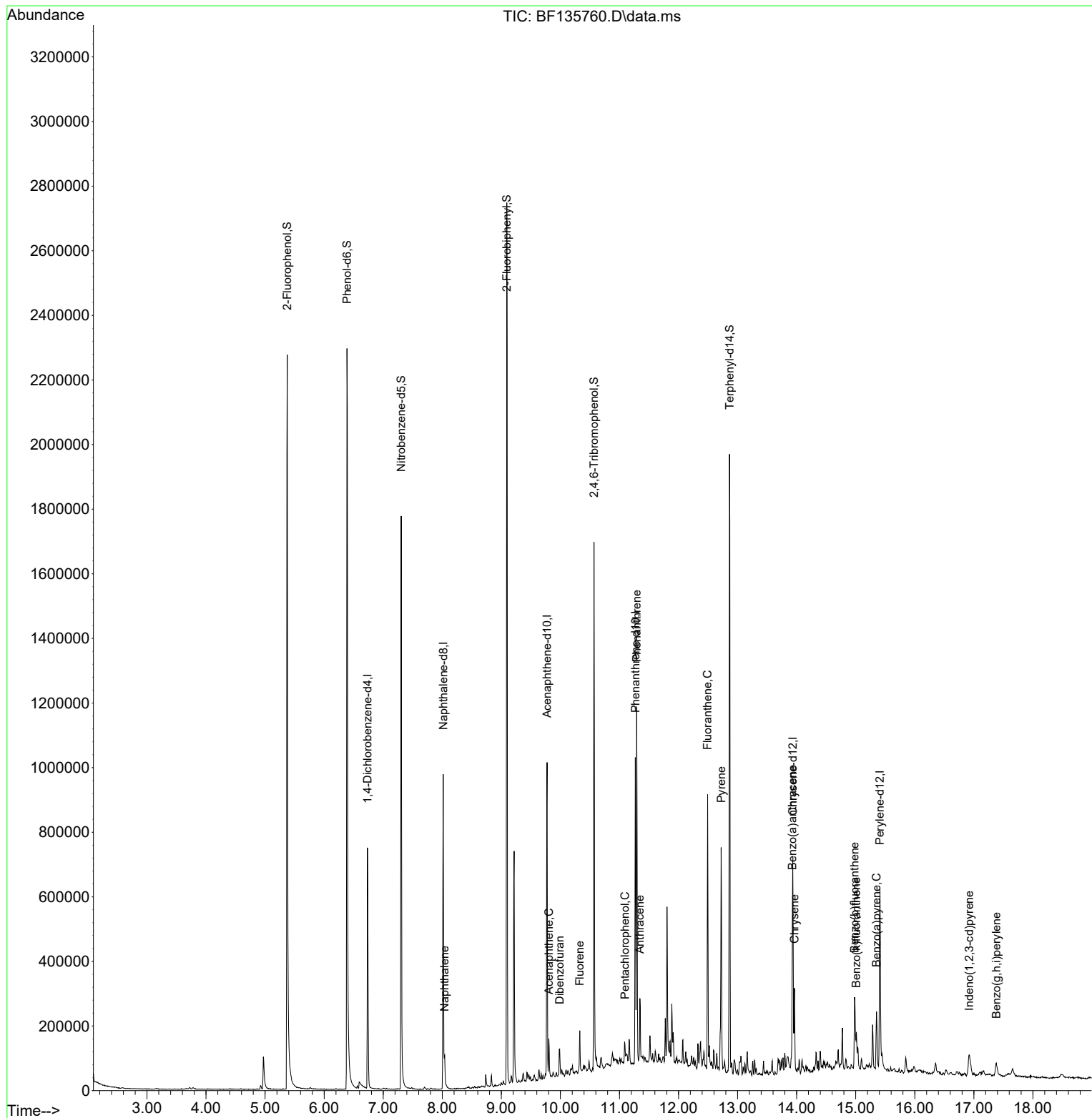
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101323\
Data File : BF135760.D
Acq On : 13 Oct 2023 19:10
Operator : CG\JU
Sample : 04830-01
Misc :
ALS Vial : 15 Sample Multiplier: 1

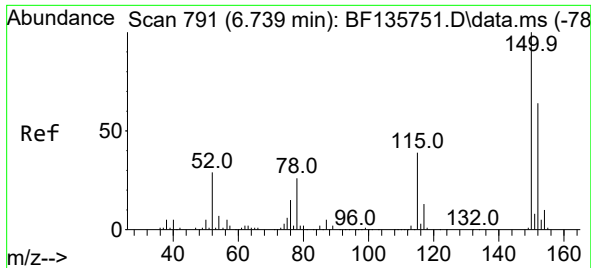
Instrument :
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Quant Time: Oct 13 19:28:49 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101323.M
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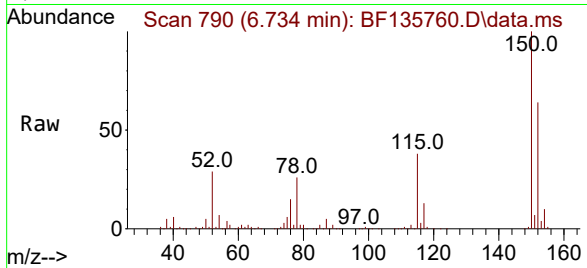
Reviewed By :Yogesh Patel 10/16/2023
Supervised By :mohammad ahmed 10/17/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.734 min Scan# 791
Delta R.T. -0.005 min
Lab File: BF135760.D
Acq: 13 Oct 2023 19:10

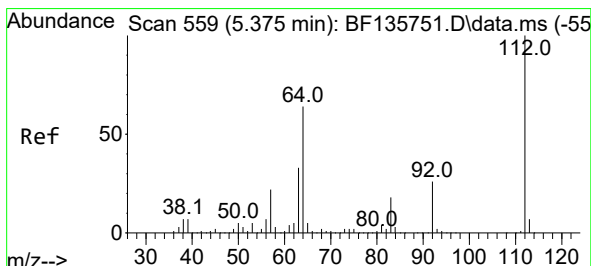
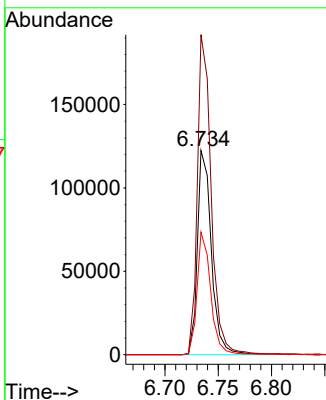
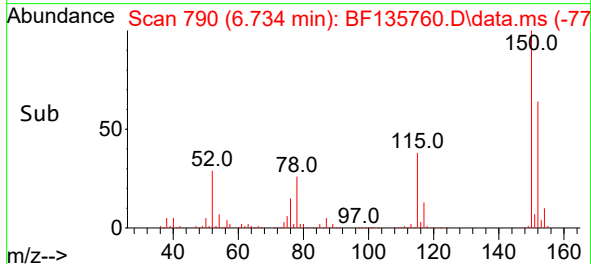
Instrument :
BNA_F
ClientSampleId :
RT-2327



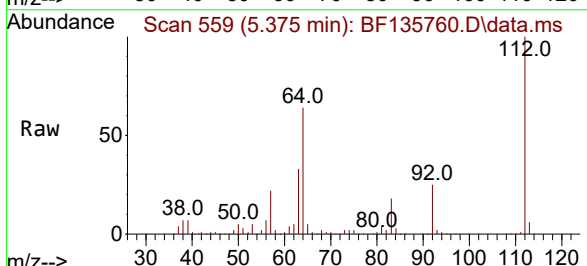
Tgt Ion:152 Resp: 11212
Ion Ratio Lower Upper
152 100
150 156.7 124.5 186.7
115 60.0 49.0 73.4

Manual Integrations
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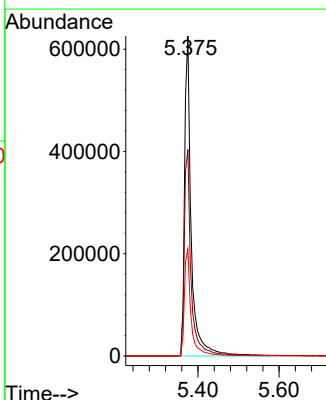
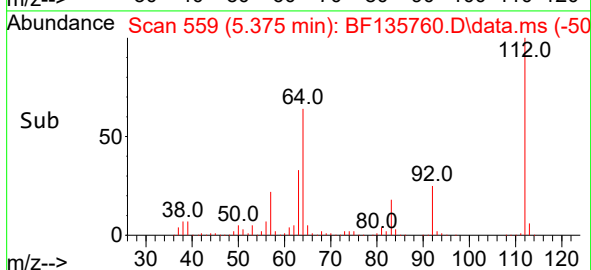
Reviewed By :Yogesh Patel 10/16/2023
Supervised By :mohammad ahmed 10/17/2023

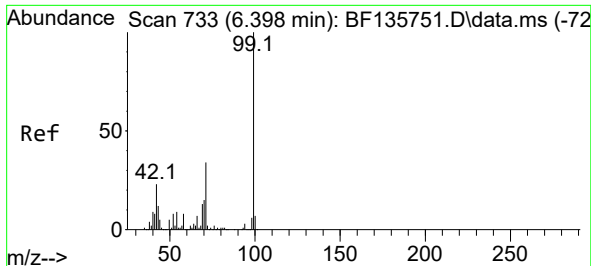


#5
2-Fluorophenol
Concen: 102.295 ng
RT: 5.375 min Scan# 559
Delta R.T. 0.000 min
Lab File: BF135760.D
Acq: 13 Oct 2023 19:10



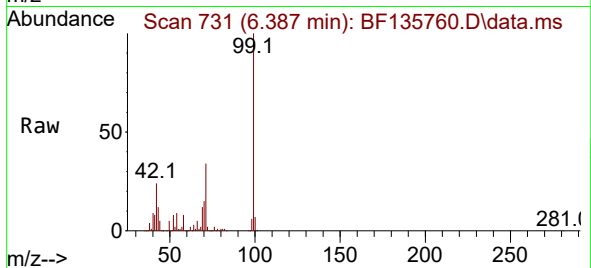
Tgt Ion:112 Resp: 713394
Ion Ratio Lower Upper
112 100
64 64.5 51.2 76.8
63 33.4 26.1 39.1





#7
Phenol-d6
Concen: 97.774 ng
RT: 6.387 min Scan# 71
Delta R.T. -0.012 min
Lab File: BF135760.D
Acq: 13 Oct 2023 19:10

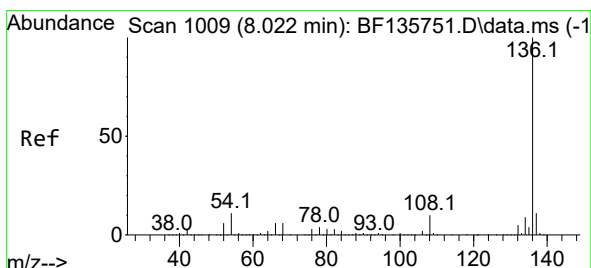
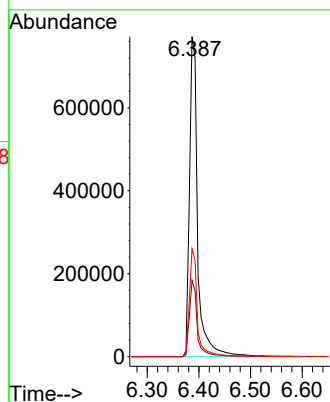
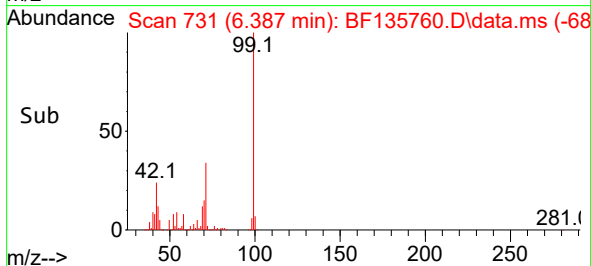
Instrument :
BNA_F
ClientSampleId :
RT-2327



Tgt Ion: 99 Resp: 85078
Ion Ratio Lower Upper
99 100
42 23.8 18.4 27.6
71 33.7 27.2 40.8

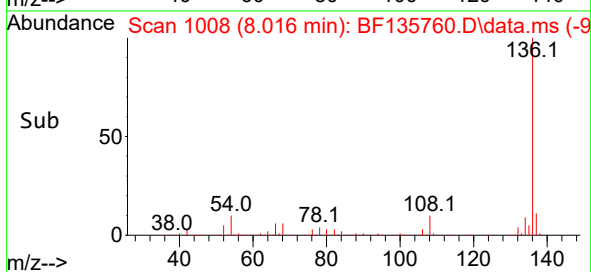
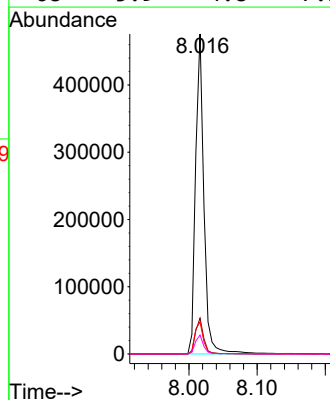
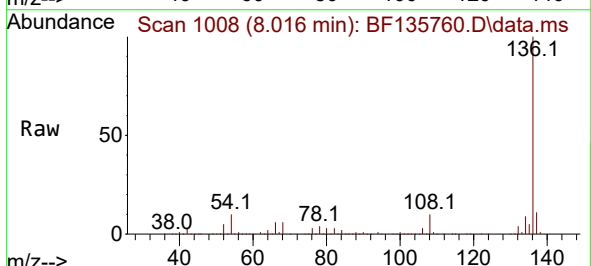
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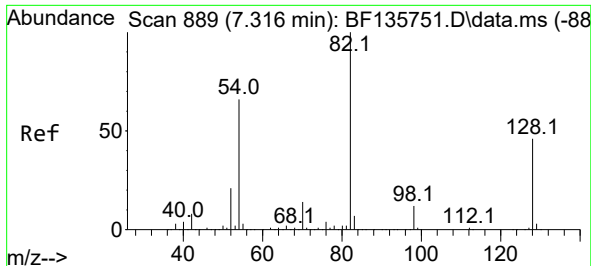
Reviewed By :Yogesh Patel 10/16/2023
Supervised By :mohammad ahmed 10/17/2023



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.016 min Scan# 1008
Delta R.T. -0.006 min
Lab File: BF135760.D
Acq: 13 Oct 2023 19:10

Tgt Ion:136 Resp: 400241
Ion Ratio Lower Upper
136 100
137 11.2 8.6 12.8
54 10.0 8.5 12.7
68 5.9 4.8 7.2





#23

Nitrobenzene-d5

Concen: 68.547 ng

RT: 7.304 min Scan# 80

Delta R.T. -0.011 min

Lab File: BF135760.D

Acq: 13 Oct 2023 19:10

Instrument :

BNA_F

ClientSampleId :

RT-2327

Tgt Ion: 82 Resp: 49883

Ion Ratio Lower Upper

82 100

128 45.1 37.0 55.6

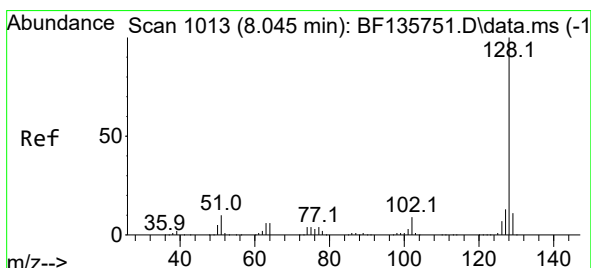
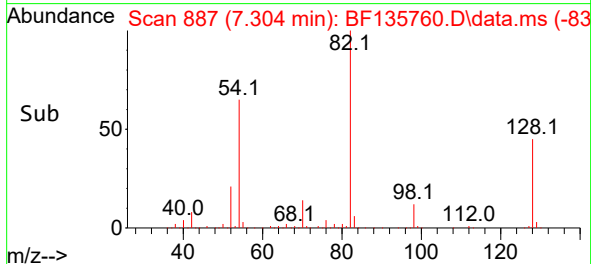
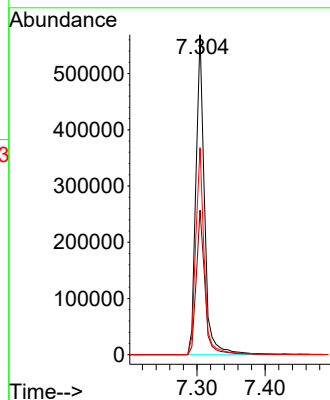
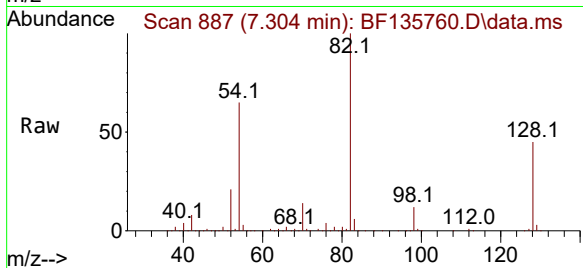
54 64.7 52.8 79.2

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Supervised By :mohammad ahmed 10/17/2023



#31

Naphthalene

Concen: 2.028 ng

RT: 8.040 min Scan# 1012

Delta R.T. -0.006 min

Lab File: BF135760.D

Acq: 13 Oct 2023 19:10

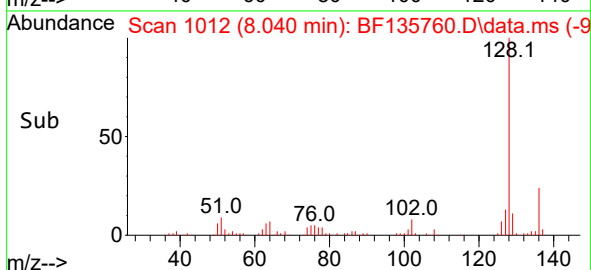
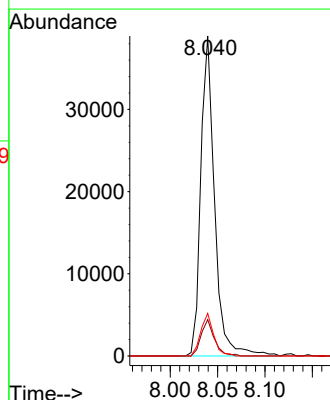
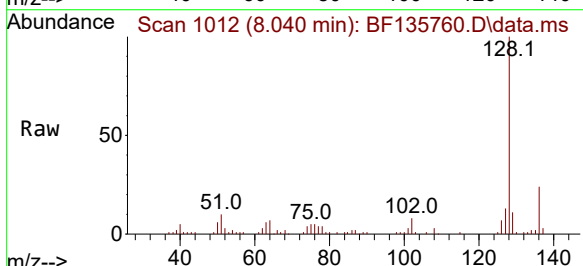
Tgt Ion:128 Resp: 39590

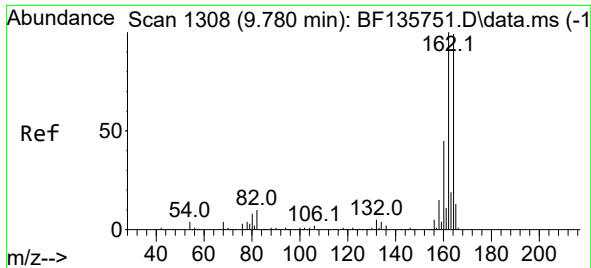
Ion Ratio Lower Upper

128 100

129 11.3 8.7 13.1

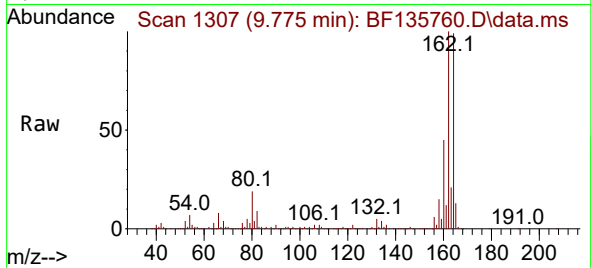
127 13.3 10.2 15.4





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.775 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF135760.D
Acq: 13 Oct 2023 19:10

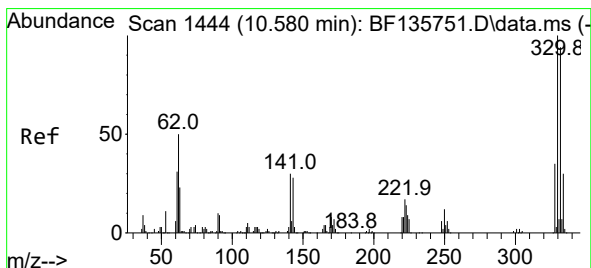
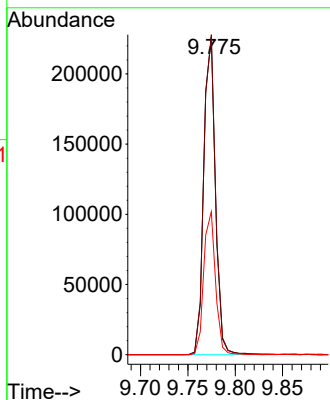
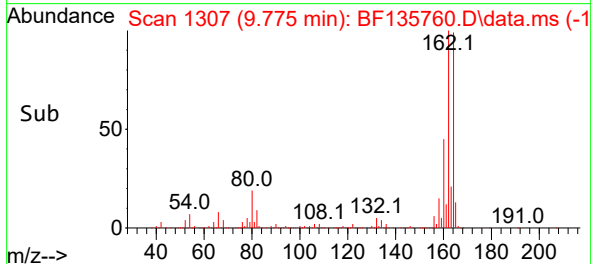
Instrument :
BNA_F
ClientSampleId :
RT-2327



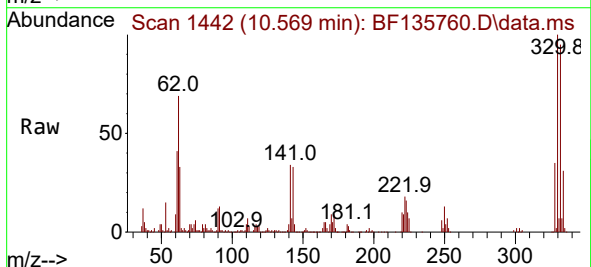
Tgt Ion:164 Resp: 19397
Ion Ratio Lower Upper
164 100
162 100.8 80.8 121.2
160 45.0 36.6 54.8

Manual Integrations
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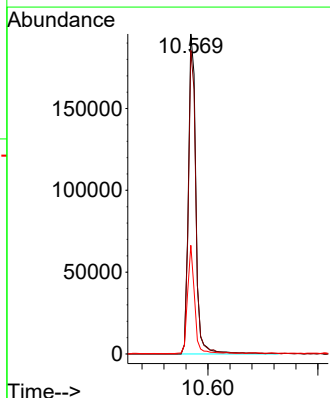
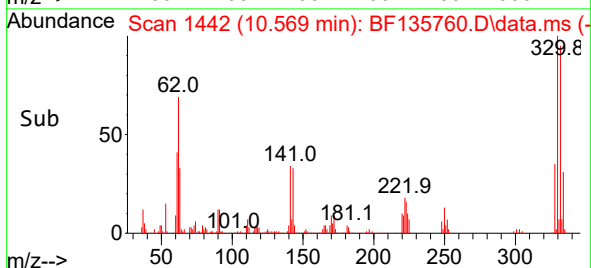
Reviewed By :Yogesh Patel 10/16/2023
Supervised By :mohammad ahmed 10/17/2023

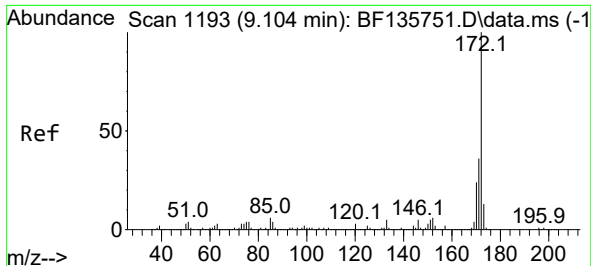


#42
2,4,6-Tribromophenol
Concen: 99.264 ng
RT: 10.569 min Scan# 1442
Delta R.T. -0.011 min
Lab File: BF135760.D
Acq: 13 Oct 2023 19:10



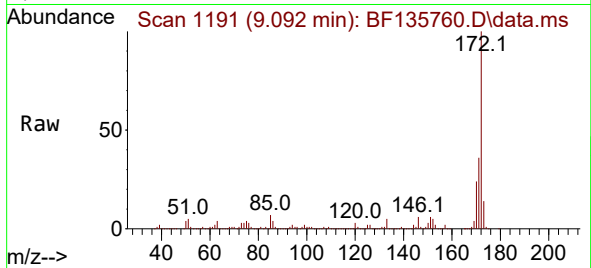
Tgt Ion:330 Resp: 184766
Ion Ratio Lower Upper
330 100
332 95.4 75.0 112.4
141 31.6 25.8 38.6





#45
2-Fluorobiphenyl
Concen: 67.834 ng
RT: 9.092 min Scan# 1191
Delta R.T. -0.011 min
Lab File: BF135760.D
Acq: 13 Oct 2023 19:10

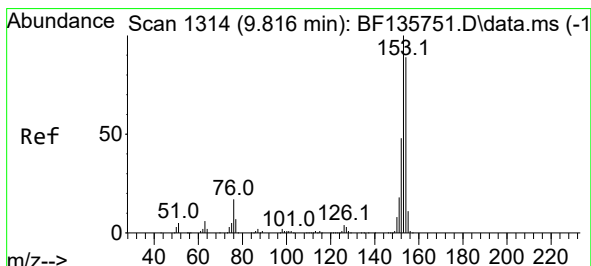
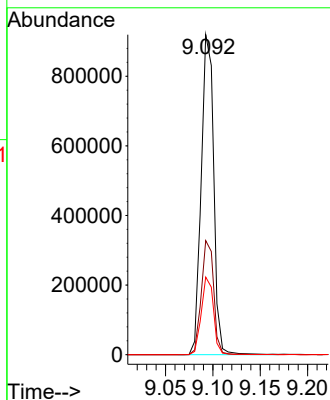
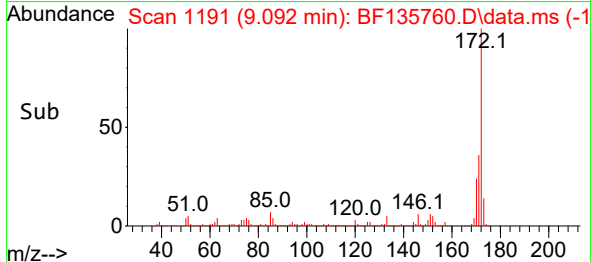
Instrument :
BNA_F
ClientSampleId :
RT-2327



Tgt Ion:172 Resp: 841589
Ion Ratio Lower Upper
172 100
171 35.7 28.4 42.6
170 24.3 18.8 28.2

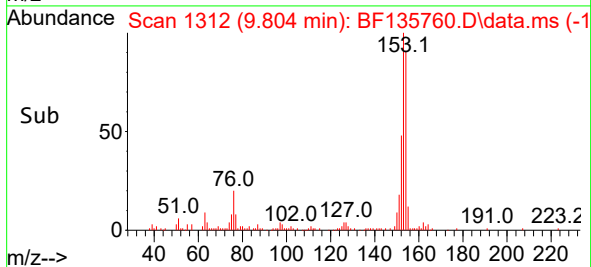
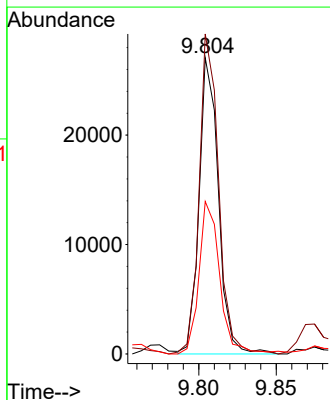
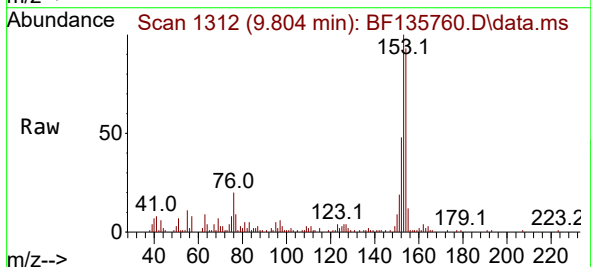
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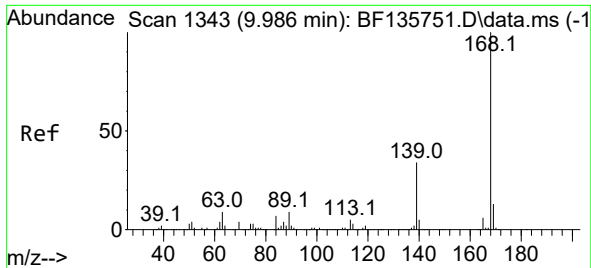
Reviewed By :Yogesh Patel 10/16/2023
Supervised By :mohammad ahmed 10/17/2023



#52
Acenaphthene
Concen: 2.208 ng
RT: 9.804 min Scan# 1312
Delta R.T. -0.011 min
Lab File: BF135760.D
Acq: 13 Oct 2023 19:10

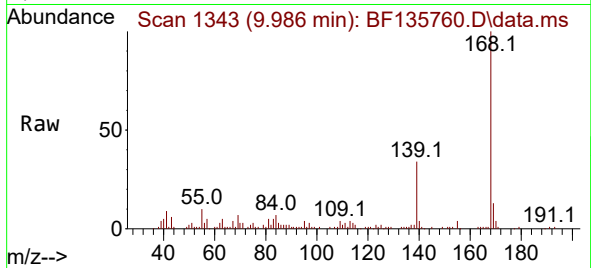
Tgt Ion:154 Resp: 23456
Ion Ratio Lower Upper
154 100
153 108.0 90.1 135.1
152 51.5 43.1 64.7





#55
Dibenzenofuran
Concen: 2.206 ng
RT: 9.986 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF135760.D
Acq: 13 Oct 2023 19:10

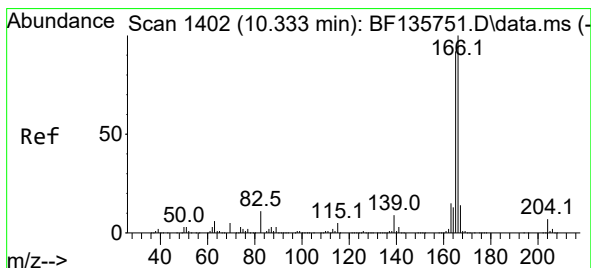
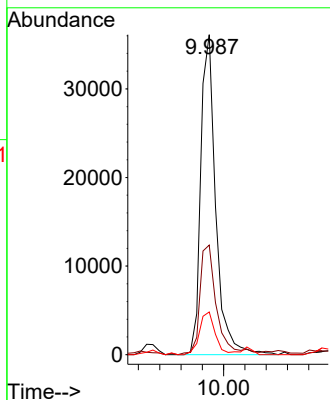
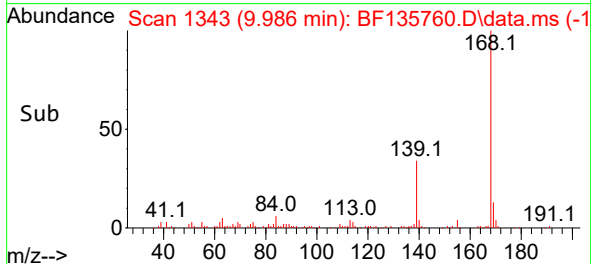
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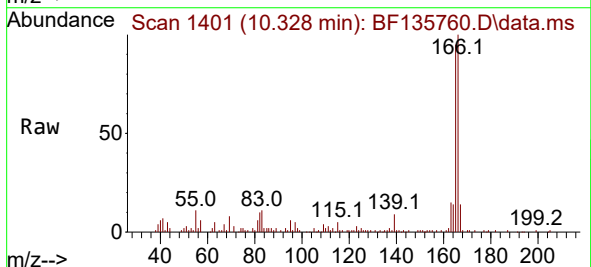
Tgt Ion:168 Resp: 3536
Ion Ratio Lower Upper
168 100
139 34.3 31.0 46.4
169 13.3 10.7 16.1

Manual Integrations
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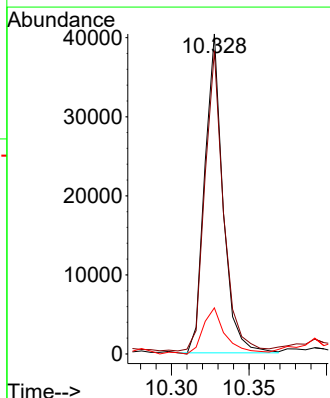
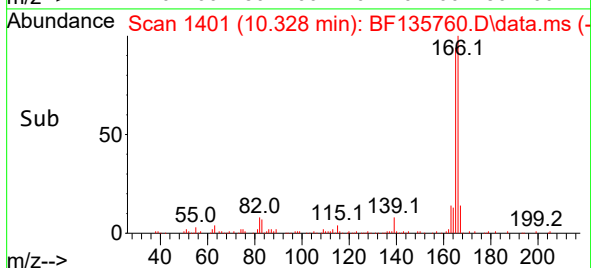
Reviewed By :Yogesh Patel 10/16/2023
Supervised By :mohammad ahmed 10/17/2023

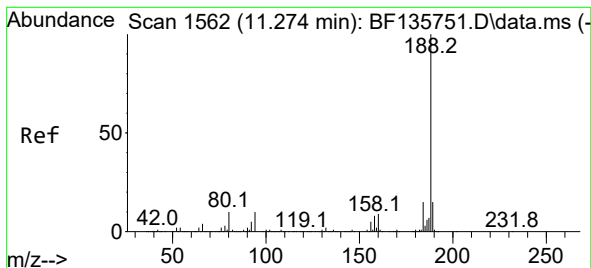


#58
Fluorene
Concen: 2.620 ng
RT: 10.328 min Scan# 1401
Delta R.T. -0.006 min
Lab File: BF135760.D
Acq: 13 Oct 2023 19:10



Tgt Ion:166 Resp: 32877
Ion Ratio Lower Upper
166 100
165 94.7 73.4 110.0
167 14.4 11.0 16.6





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.269 min Scan# 1561

Delta R.T. -0.006 min

Lab File: BF135760.D

Acq: 13 Oct 2023 19:10

Instrument :

BNA_F

ClientSampleId :

RT-2327

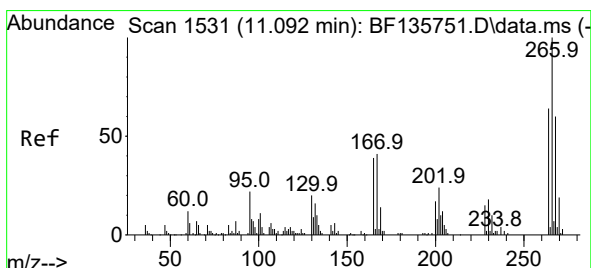
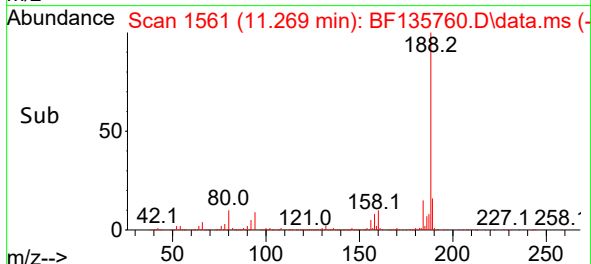
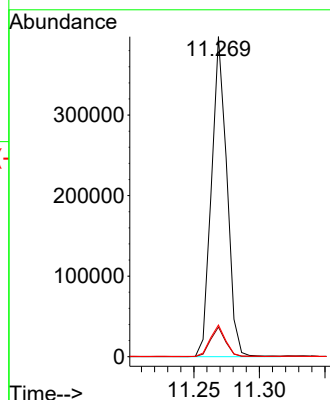
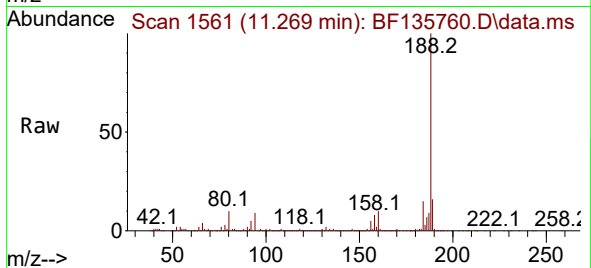
Tgt Ion:188 Resp: 324678
 Ion Ratio Lower Upper
 188 100
 94 9.3 8.0 12.0
 80 9.9 8.3 12.5

Manual Integrations

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Reviewed By :Yogesh Patel 10/16/2023

Supervised By :mohammad ahmed 10/17/2023



#70

Pentachlorophenol

Concen: 3.646 ng

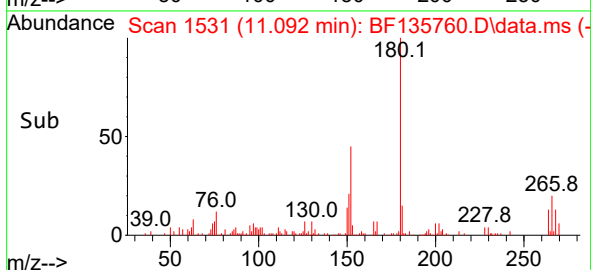
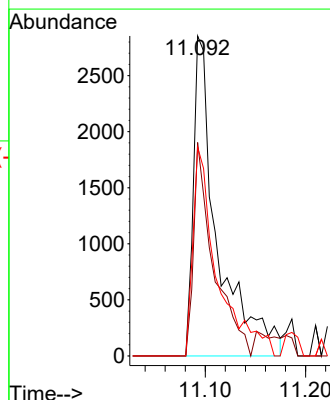
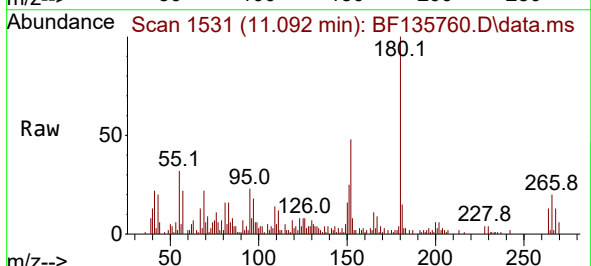
RT: 11.092 min Scan# 1531

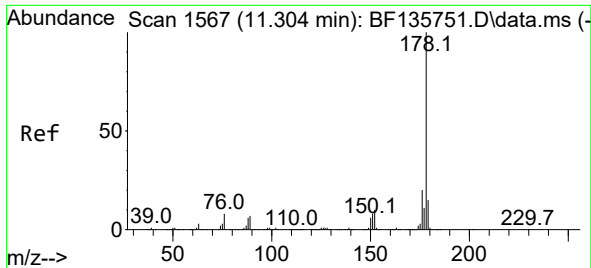
Delta R.T. 0.000 min

Lab File: BF135760.D

Acq: 13 Oct 2023 19:10

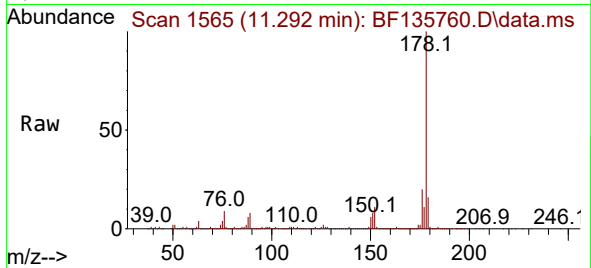
Tgt Ion:266 Resp: 4771
 Ion Ratio Lower Upper
 266 100
 268 66.7 47.7 71.5
 264 65.2 51.4 77.2





#71
Phenanthrene
Concen: 25.110 ng
RT: 11.292 min Scan# 11
Delta R.T. -0.011 min
Lab File: BF135760.D
Acq: 13 Oct 2023 19:10

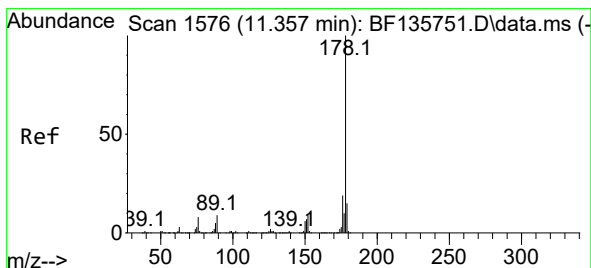
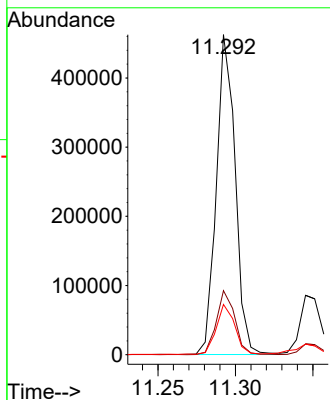
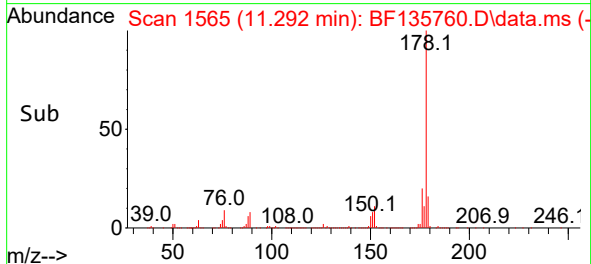
Instrument :
BNA_F
ClientSampleId :
RT-2327



Tgt Ion:178 Resp: 39055
Ion Ratio Lower Upper
178 100
176 20.0 16.0 24.0
179 15.7 12.2 18.4

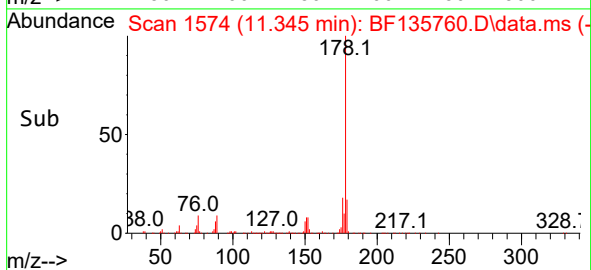
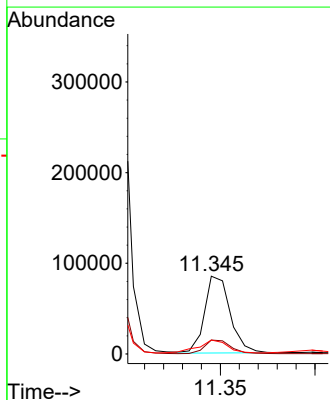
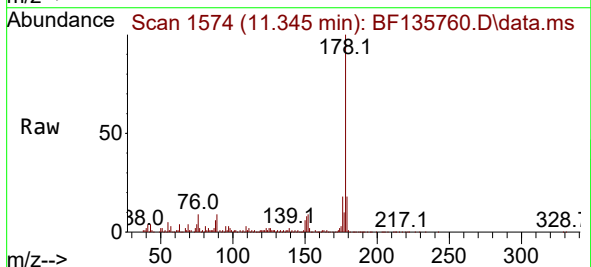
Manual Integrations
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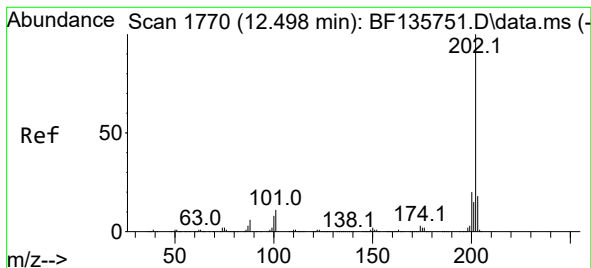
Reviewed By :Yogesh Patel 10/16/2023
Supervised By :mohammad ahmed 10/17/2023



#72
Anthracene
Concen: 4.949 ng
RT: 11.345 min Scan# 1574
Delta R.T. -0.011 min
Lab File: BF135760.D
Acq: 13 Oct 2023 19:10

Tgt Ion:178 Resp: 79762
Ion Ratio Lower Upper
178 100
176 18.0 15.1 22.7
179 17.9 12.3 18.5





#75

Fluoranthene

Concen: 18.493 ng

RT: 12.492 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF135760.D

Acq: 13 Oct 2023 19:10

Instrument :

BNA_F

ClientSampleId :

RT-2327

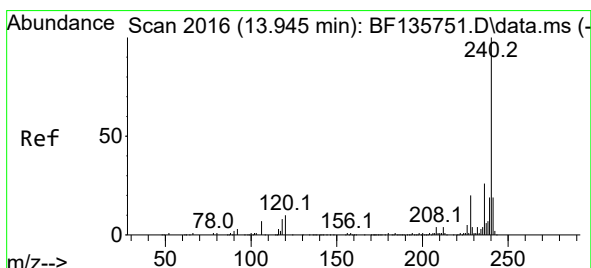
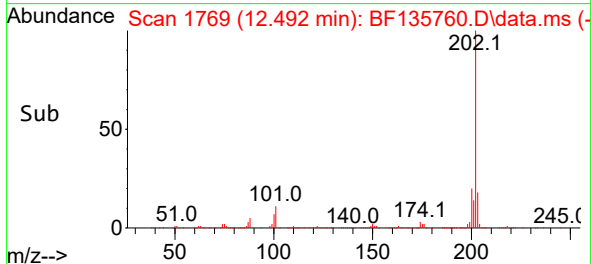
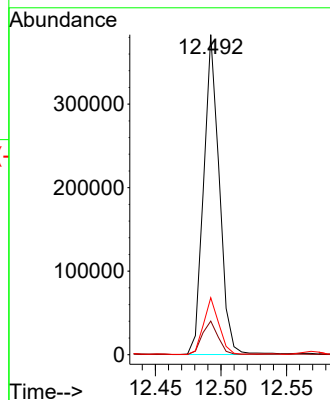
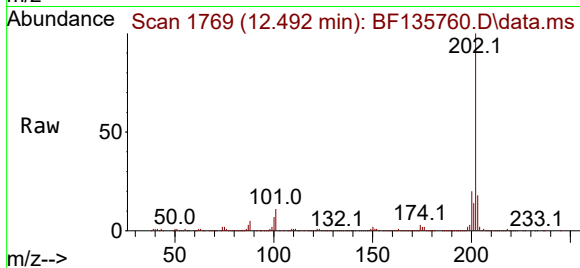
Tgt Ion:	202	Resp:	319240
Ion Ratio	Lower	Upper	
202	100		
101	10.5	0.0	31.5
203	17.8	0.0	38.3

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/16/2023

Supervised By :mohammad ahmed 10/17/2023



#76

Chrysene-d12

Concen: 20.000 ng

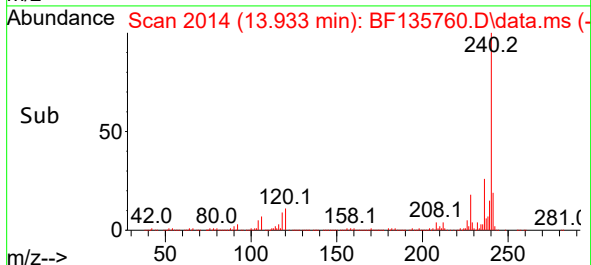
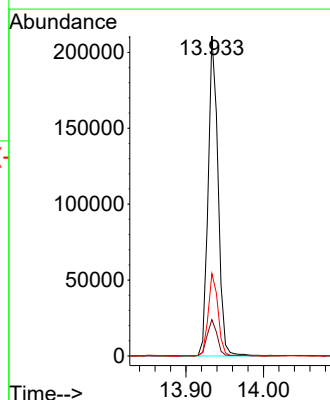
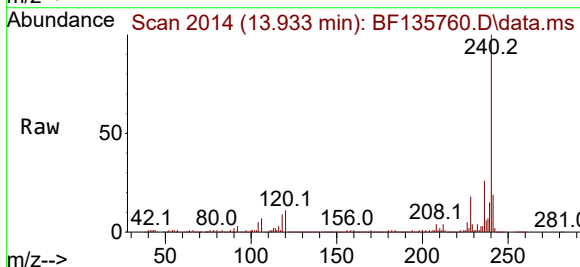
RT: 13.933 min Scan# 2014

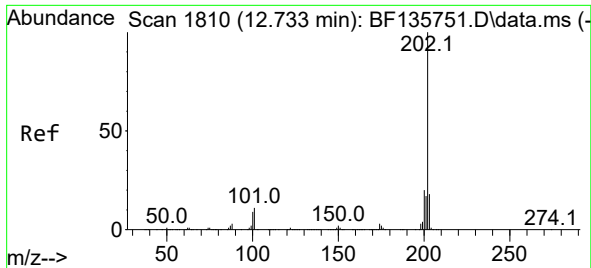
Delta R.T. -0.012 min

Lab File: BF135760.D

Acq: 13 Oct 2023 19:10

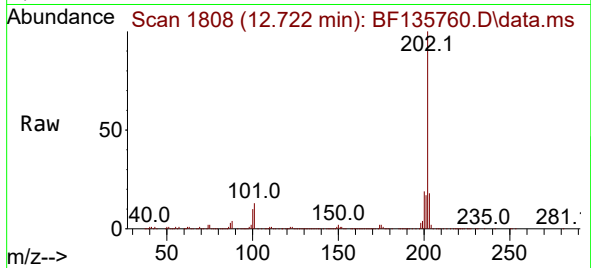
Tgt Ion:	240	Resp:	187590
Ion Ratio	Lower	Upper	
240	100		
120	11.4	8.2	12.2
236	25.8	21.2	31.8





#78
 Pyrene
 Concen: 19.037 ng
 RT: 12.722 min Scan# 1808
 Delta R.T. -0.012 min
 Lab File: BF135760.D
 Acq: 13 Oct 2023 19:10

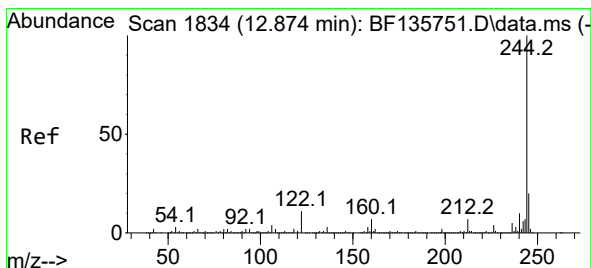
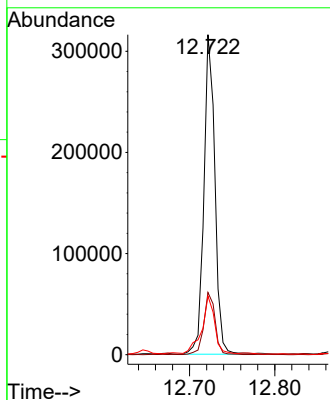
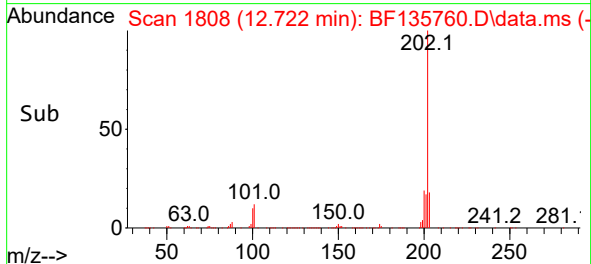
Instrument :
 BNA_F
 ClientSampleId :
 RT-2327



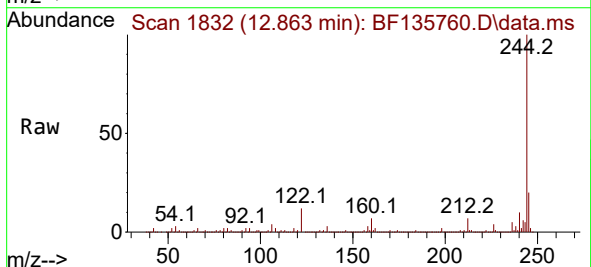
Tgt Ion:202 Resp: 283788
 Ion Ratio Lower Upper
 202 100
 200 19.5 16.1 24.1
 203 18.3 14.2 21.2

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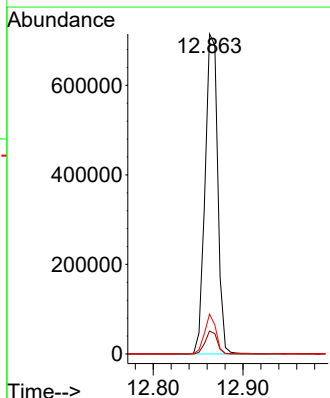
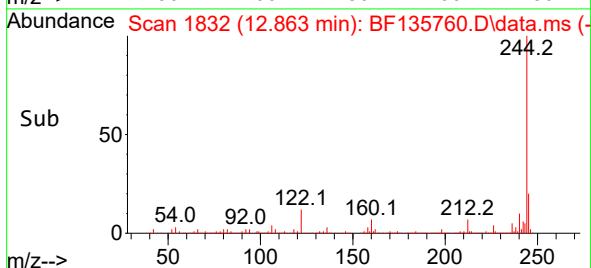
Reviewed By :Yogesh Patel 10/16/2023
 Supervised By :mohammad ahmed 10/17/2023

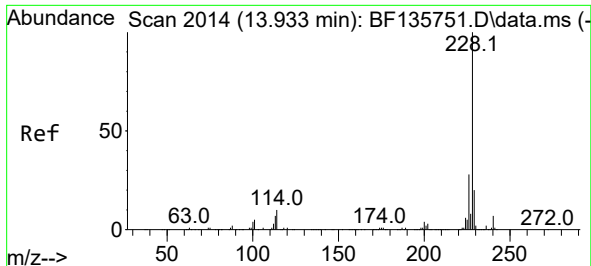


#79
 Terphenyl-d14
 Concen: 68.885 ng
 RT: 12.863 min Scan# 1832
 Delta R.T. -0.011 min
 Lab File: BF135760.D
 Acq: 13 Oct 2023 19:10



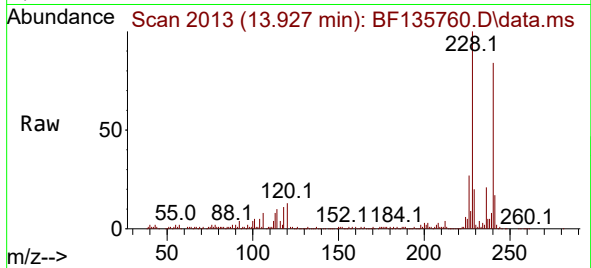
Tgt Ion:244 Resp: 697770
 Ion Ratio Lower Upper
 244 100
 212 7.2 5.6 8.4
 122 12.5 9.0 13.6





#81
Benzo(a)anthracene
Concen: 8.319 ng
RT: 13.927 min Scan# 2013
Delta R.T. -0.006 min
Lab File: BF135760.D
Acq: 13 Oct 2023 19:10

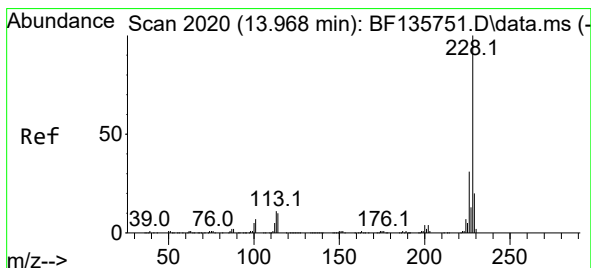
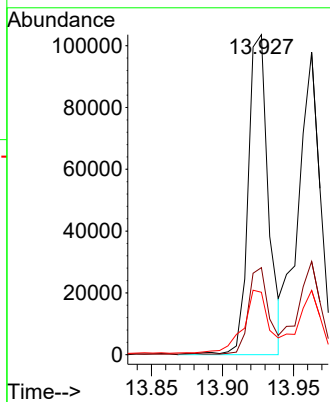
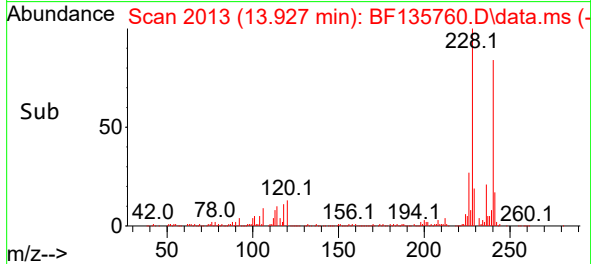
Instrument :
BNA_F
ClientSampleId :
RT-2327



Tgt Ion:228 Resp: 102499
Ion Ratio Lower Upper
228 100
226 27.2 22.2 33.2
229 19.5 16.1 24.1

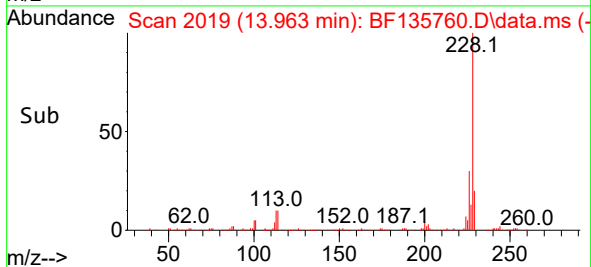
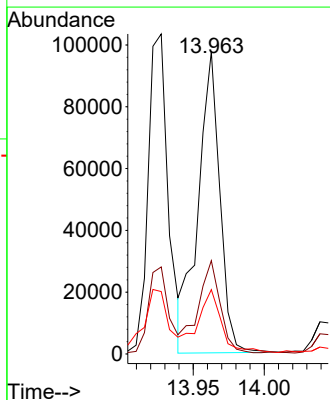
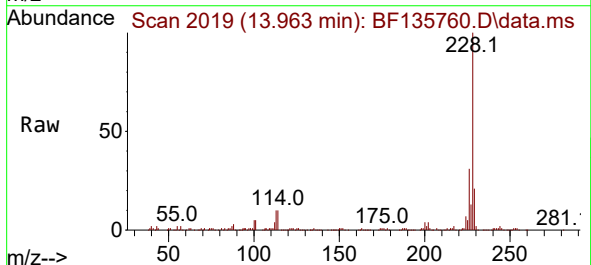
Manual Integrations
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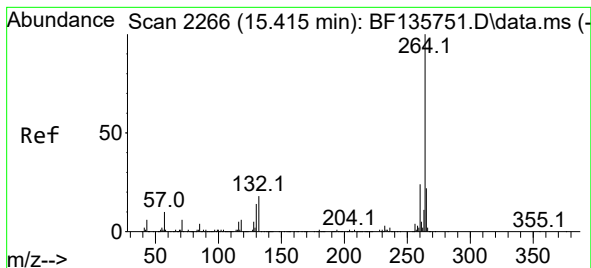
Reviewed By :Yogesh Patel 10/16/2023
Supervised By :mohammad ahmed 10/17/2023



#83
Chrysene
Concen: 8.720 ng
RT: 13.963 min Scan# 2019
Delta R.T. -0.006 min
Lab File: BF135760.D
Acq: 13 Oct 2023 19:10

Tgt Ion:228 Resp: 104067
Ion Ratio Lower Upper
228 100
226 30.8 24.4 36.6
229 21.3 15.7 23.5





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.410 min Scan# 21

Delta R.T. -0.006 min

Lab File: BF135760.D

Acq: 13 Oct 2023 19:10

Instrument :

BNA_F

ClientSampleId :

RT-2327

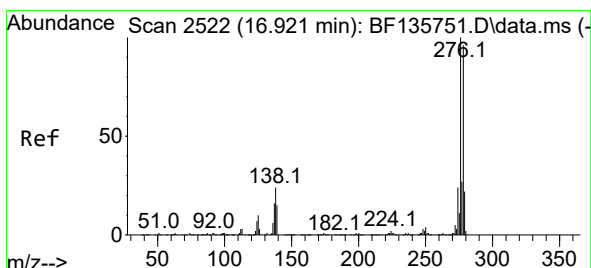
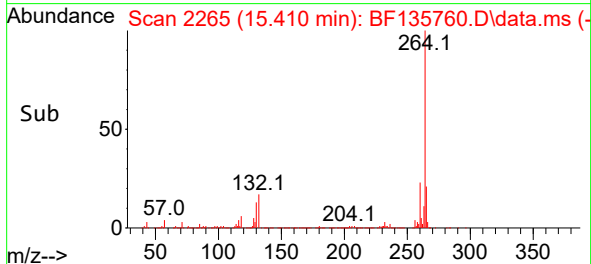
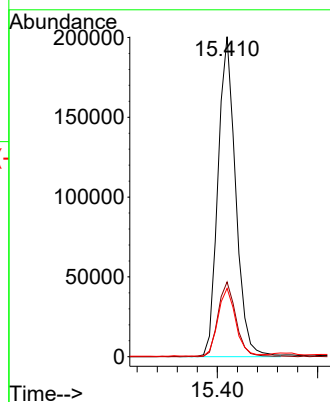
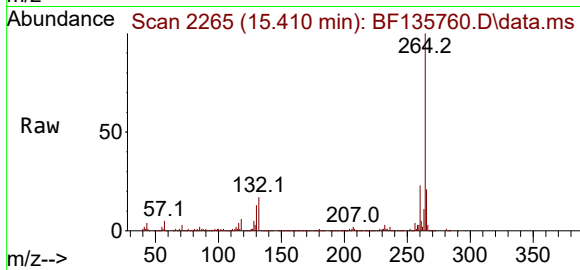
Tgt Ion:	264	Resp:	245450
Ion Ratio	Lower	Upper	
264	100		
260	23.3	19.2	28.8
265	21.3	17.4	26.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/16/2023

Supervised By :mohammad ahmed 10/17/2023



#87

Indeno(1,2,3-cd)pyrene

Concen: 3.193 ng

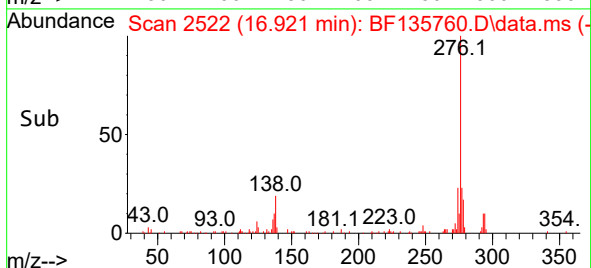
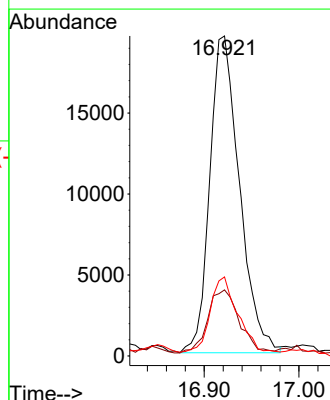
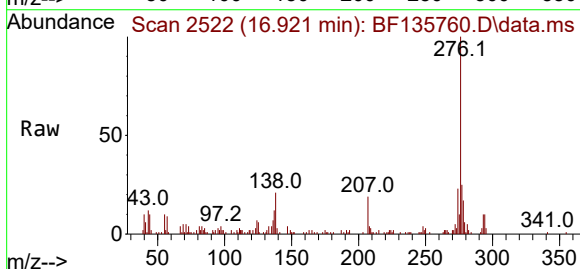
RT: 16.921 min Scan# 2522

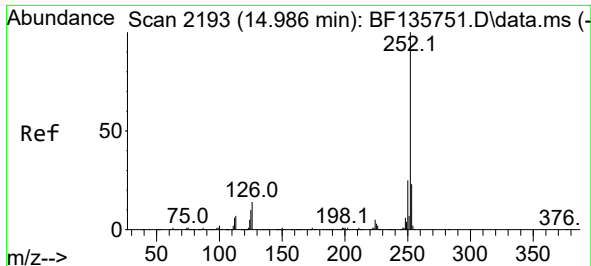
Delta R.T. 0.000 min

Lab File: BF135760.D

Acq: 13 Oct 2023 19:10

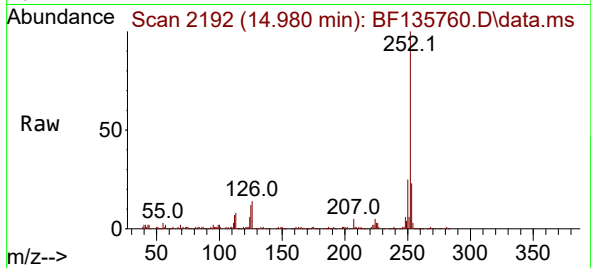
Tgt Ion:	276	Resp:	42702
Ion Ratio	Lower	Upper	
276	100		
138	22.2	19.8	29.6
277	22.9	20.2	30.4





#88
Benzo(b)fluoranthene
Concen: 9.166 ng m
RT: 14.980 min Scan# 2193
Delta R.T. -0.006 min
Lab File: BF135760.D
Acq: 13 Oct 2023 19:10

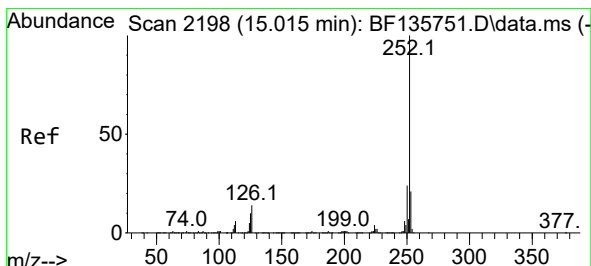
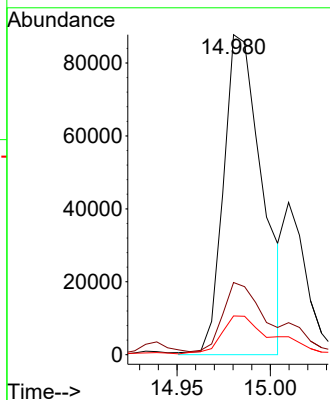
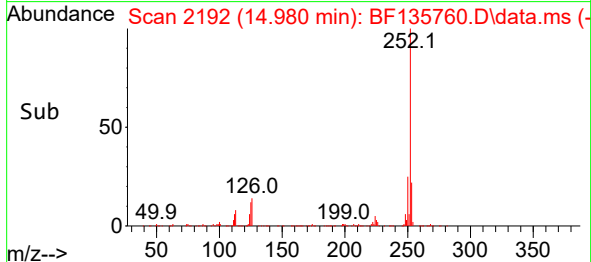
Instrument :
BNA_F
ClientSampleId :
RT-2327



Tgt Ion:252 Resp: 125920
Ion Ratio Lower Upper
252 100
253 22.6 18.2 27.2
125 12.1 8.2 12.2

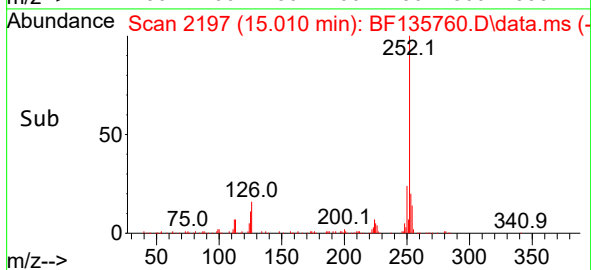
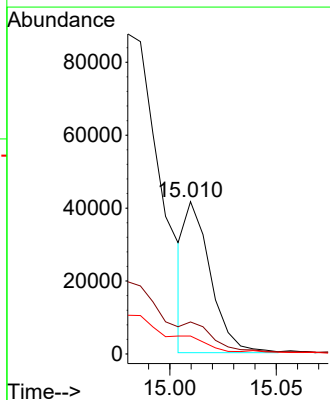
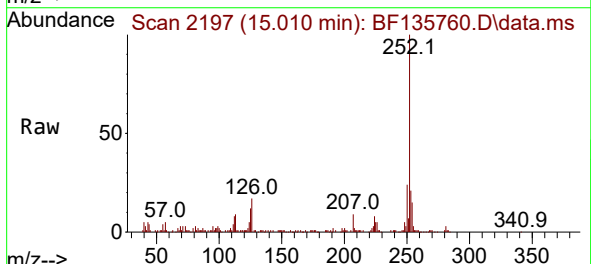
Manual Integrations
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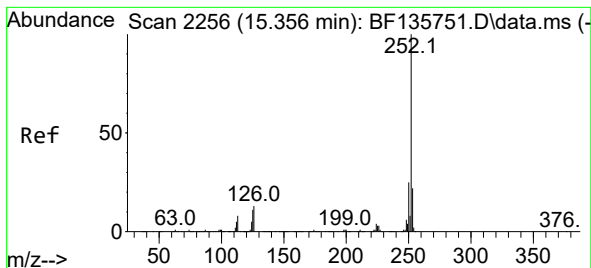
Reviewed By :Yogesh Patel 10/16/2023
Supervised By :mohammad ahmed 10/17/2023



#89
Benzo(k)fluoranthene
Concen: 2.587 ng m
RT: 15.010 min Scan# 2197
Delta R.T. -0.006 min
Lab File: BF135760.D
Acq: 13 Oct 2023 19:10

Tgt Ion:252 Resp: 34507
Ion Ratio Lower Upper
252 100
253 21.0 17.4 26.0
125 11.8 8.3 12.5





#90

Benzo(a)pyrene

Concen: 6.522 ng

RT: 15.351 min Scan# 21

Delta R.T. -0.006 min

Lab File: BF135760.D

Acq: 13 Oct 2023 19:10

Instrument :

BNA_F

ClientSampleId :

RT-2327

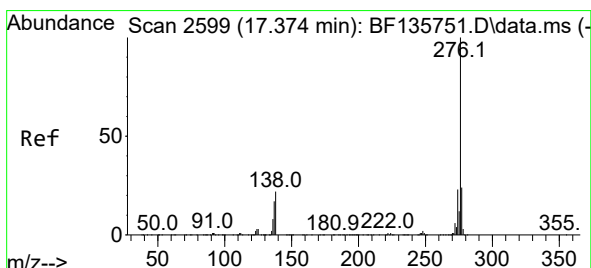
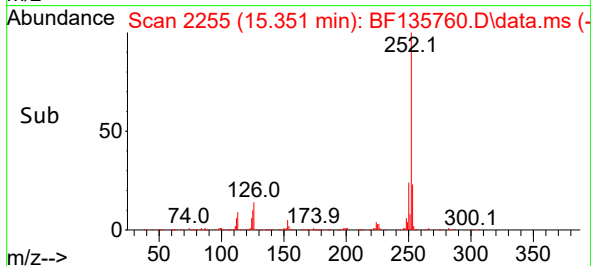
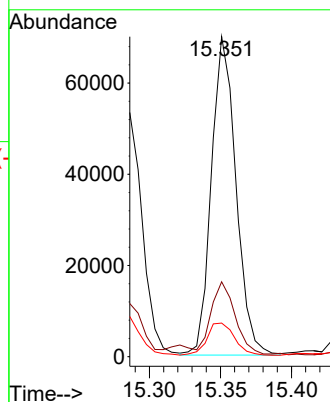
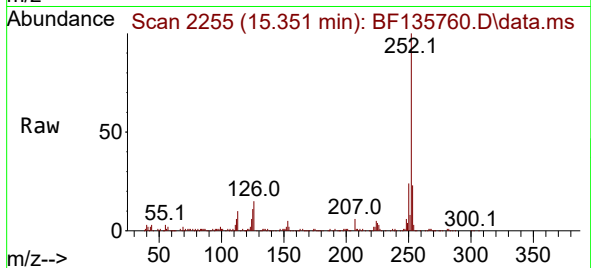
Tgt Ion:	252	Resp:	84250
Ion Ratio	Lower	Upper	
252	100		
253	23.4	17.4	26.2
125	10.5	8.8	13.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/16/2023

Supervised By :mohammad ahmed 10/17/2023



#92

Benzo(g,h,i)perylene

Concen: 3.248 ng

RT: 17.380 min Scan# 2600

Delta R.T. 0.006 min

Lab File: BF135760.D

Acq: 13 Oct 2023 19:10

Tgt Ion:	276	Resp:	36577
Ion Ratio	Lower	Upper	
276	100		
277	25.2	19.4	29.2
138	21.3	17.3	25.9

