

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF090723\
 Data File : BF135145.D
 Acq On : 07 Sep 2023 21:20
 Operator : CG\JU
 Sample : 04221-01
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 AU-5-082923

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 09/08/2023
 Supervised By :mohammad ahmed 09/09/2023

Quant Time: Sep 08 01:54:58 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF083023.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Aug 31 03:48:08 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.769	152	104031	20.000	ng	0.00
21) Naphthalene-d8	8.051	136	397559	20.000	ng	0.00
39) Acenaphthene-d10	9.810	164	167981	20.000	ng	0.00
64) Phenanthrene-d10	11.298	188	247290	20.000	ng	-0.01
76) Chrysene-d12	13.957	240	181695	20.000	ng	0.00
86) Perylene-d12	15.427	264	150935	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.404	112	584840	86.835	ng	0.00
7) Phenol-d6	6.416	99	703660	83.821	ng	0.00
23) Nitrobenzene-d5	7.334	82	431402	60.963	ng	-0.01
42) 2,4,6-Tribromophenol	10.604	330	132170	74.173	ng	0.00
45) 2-Fluorobiphenyl	9.133	172	726768	70.440	ng	0.00
79) Terphenyl-d14	12.904	244	580816	52.166	ng	0.00
Target Compounds						Qvalue
71) Phenanthrene	11.322	178	100870	7.907	ng	99
75) Fluoranthene	12.521	202	156716	12.150	ng	100
78) Pyrene	12.751	202	155076	8.989	ng	98
81) Benzo(a)anthracene	13.951	228	86699	6.995	ng	96
83) Chrysene	13.986	228	84275m	6.919	ng	
87) Indeno(1,2,3-cd)pyrene	16.909	276	27916	2.746	ng	# 91
88) Benzo(b)fluoranthene	15.004	252	85682m	9.123	ng	
89) Benzo(k)fluoranthene	15.027	252	24184m	2.666	ng	
90) Benzo(a)pyrene	15.368	252	52474	6.015	ng	95
92) Benzo(g,h,i)perylene	17.362	276	27442	3.204	ng	# 91

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

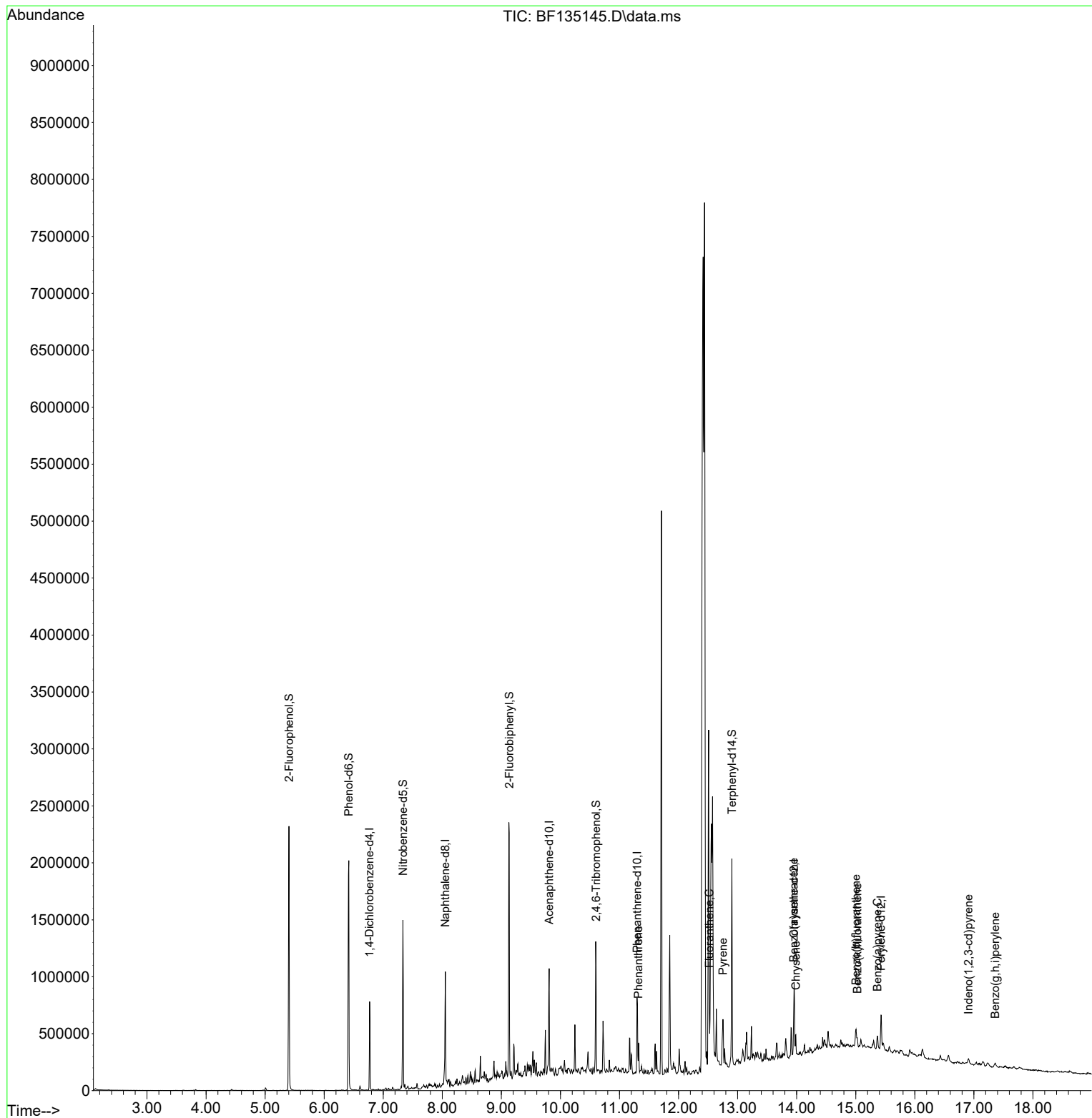
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF090723\
Data File : BF135145.D
Acq On : 07 Sep 2023 21:20
Operator : CG\JU
Sample : 04221-01
Misc :
ALS Vial : 21 Sample Multiplier: 1

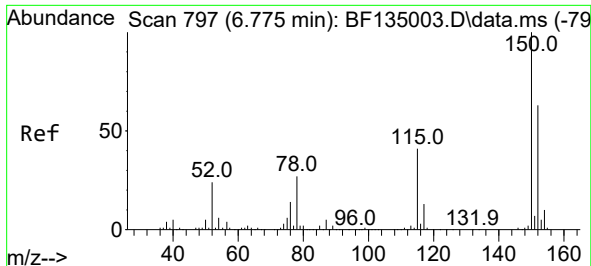
Instrument :
BNA_F
ClientSampleId :
AU-5-082923

Quant Time: Sep 08 01:54:58 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF083023.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 31 03:48:08 2023
Response via : Initial Calibration

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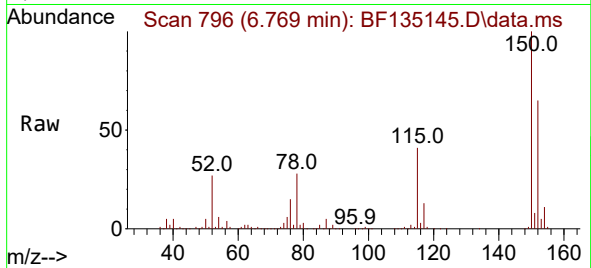
Reviewed By :Yogesh Patel 09/08/2023
Supervised By :mohammad ahmed 09/09/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.769 min Scan# 797
Delta R.T. -0.006 min
Lab File: BF135145.D
Acq: 07 Sep 2023 21:20

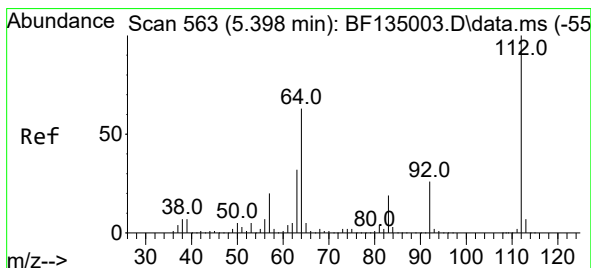
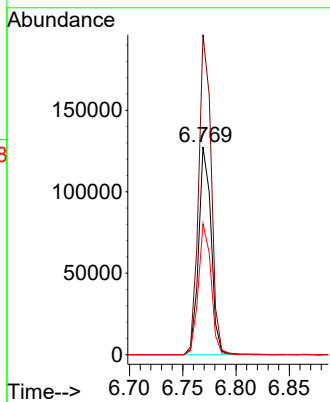
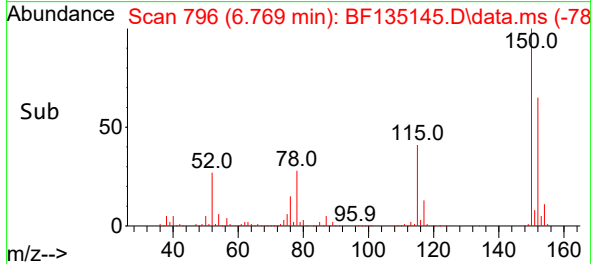
Instrument :
BNA_F
ClientSampleId :
AU-5-082923



Tgt Ion:152 Resp: 10403
Ion Ratio Lower Upper
152 100
150 154.1 126.2 189.4
115 63.0 51.2 76.8

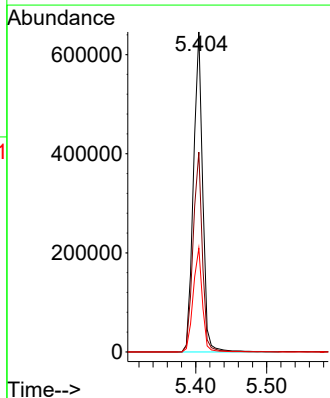
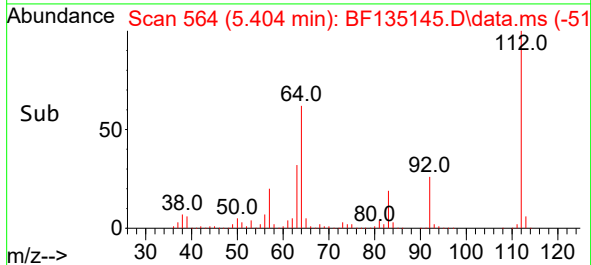
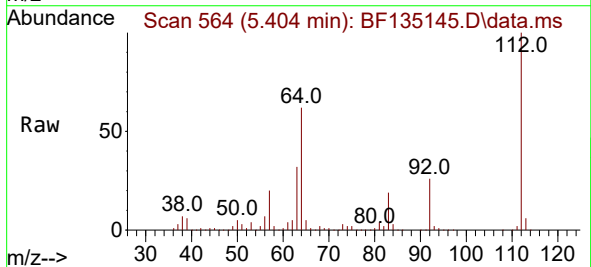
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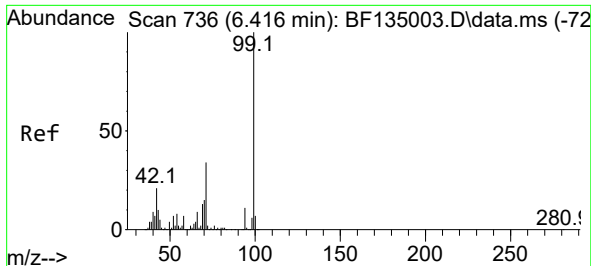
Reviewed By :Yogesh Patel 09/08/2023
Supervised By :mohammad ahmed 09/09/2023



#5
2-Fluorophenol
Concen: 86.835 ng
RT: 5.404 min Scan# 564
Delta R.T. 0.006 min
Lab File: BF135145.D
Acq: 07 Sep 2023 21:20

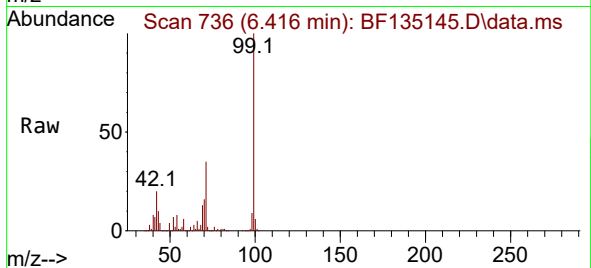
Tgt Ion:112 Resp: 584840
Ion Ratio Lower Upper
112 100
64 62.4 50.5 75.7
63 32.4 25.9 38.9





#7
Phenol-d6
Concen: 83.821 ng
RT: 6.416 min Scan# 71
Delta R.T. 0.000 min
Lab File: BF135145.D
Acq: 07 Sep 2023 21:20

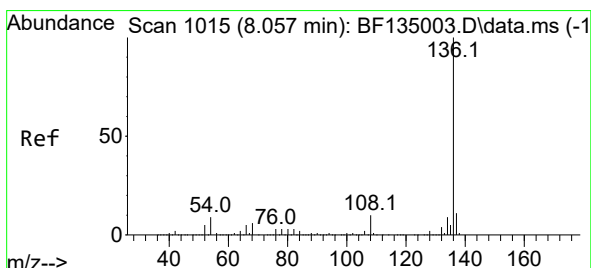
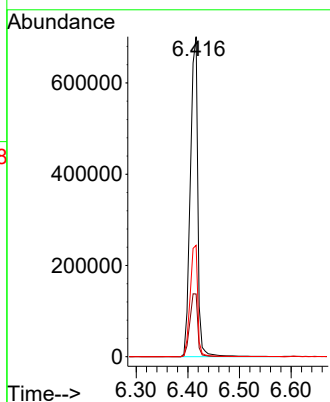
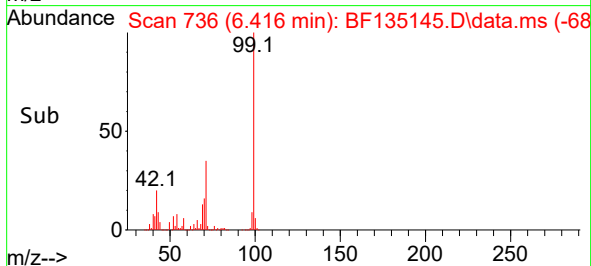
Instrument :
BNA_F
ClientSampleId :
AU-5-082923



Tgt Ion: 99 Resp: 703660
Ion Ratio Lower Upper
99 100
42 19.6 16.6 25.0
71 34.8 27.0 40.6

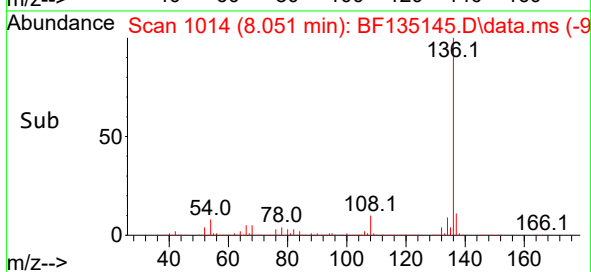
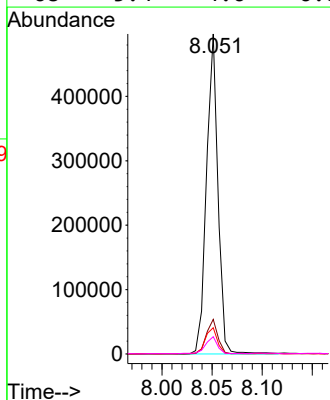
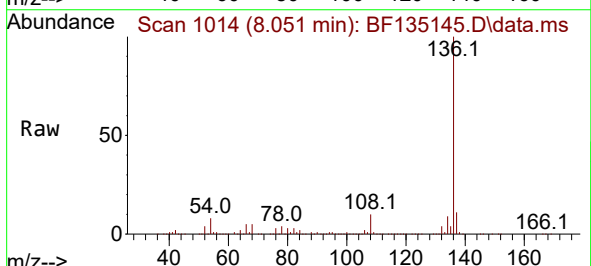
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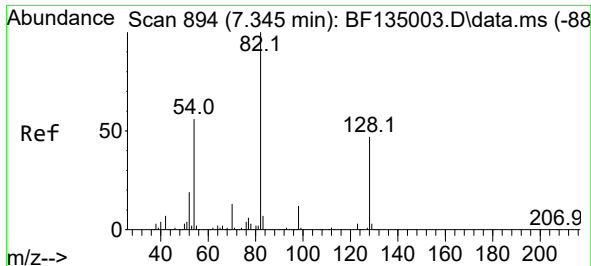
Reviewed By :Yogesh Patel 09/08/2023
Supervised By :mohammad ahmed 09/09/2023



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.051 min Scan# 1014
Delta R.T. -0.006 min
Lab File: BF135145.D
Acq: 07 Sep 2023 21:20

Tgt Ion:136 Resp: 397559
Ion Ratio Lower Upper
136 100
137 10.8 8.8 13.2
54 8.2 7.0 10.4
68 5.4 4.6 6.8





#23

Nitrobenzene-d5

Concen: 60.963 ng

RT: 7.334 min Scan# 894

Delta R.T. -0.012 min

Lab File: BF135145.D

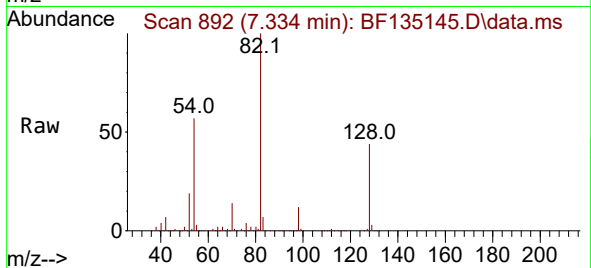
Acq: 07 Sep 2023 21:20

Instrument :

BNA_F

ClientSampleId :

AU-5-082923



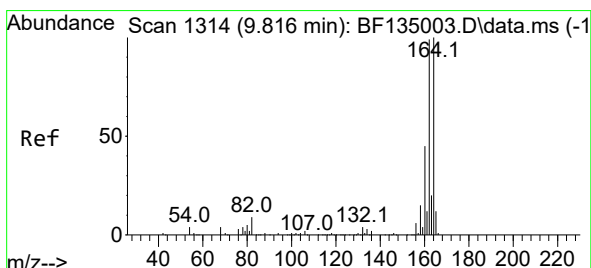
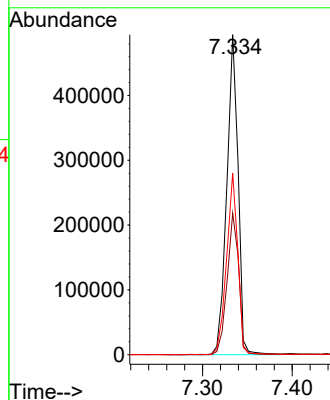
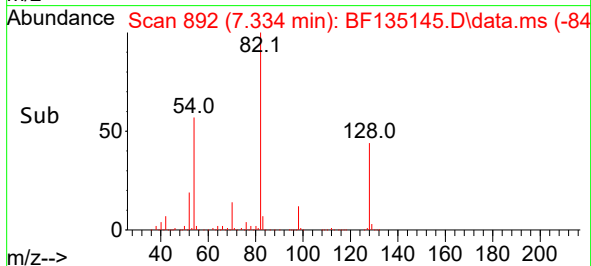
Tgt Ion:	82	Resp:	431402
Ion Ratio	Lower	Upper	
82	100		
128	44.3	37.8	56.8
54	56.8	45.0	67.6

Manual Integrations

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#39

Acenaphthene-d10

Concen: 20.000 ng

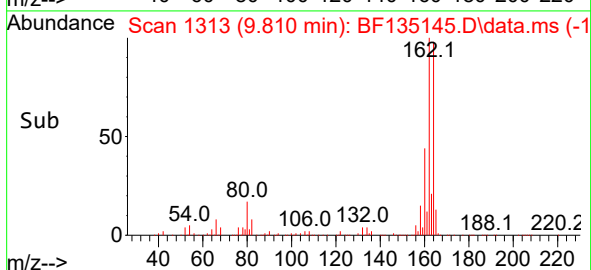
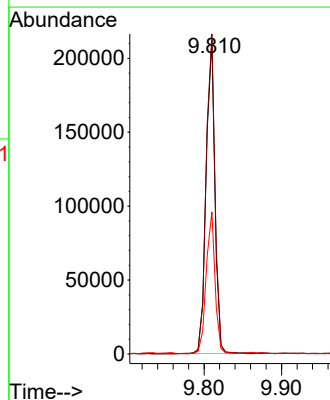
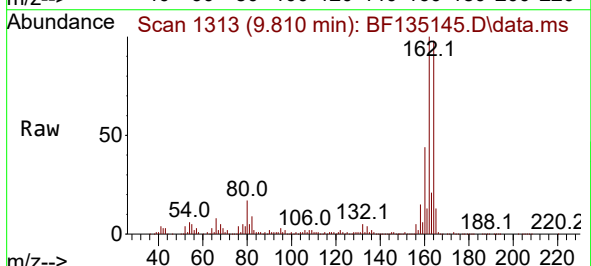
RT: 9.810 min Scan# 1313

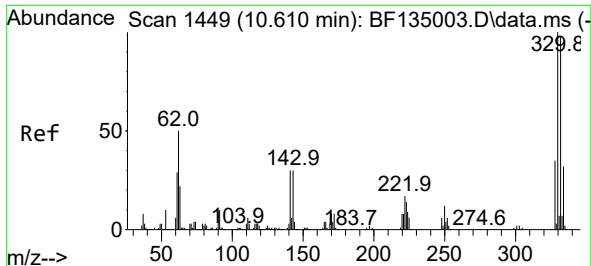
Delta R.T. -0.006 min

Lab File: BF135145.D

Acq: 07 Sep 2023 21:20

Tgt Ion:	164	Resp:	167981
Ion Ratio	Lower	Upper	
164	100		
162	102.0	79.5	119.3
160	45.3	36.0	54.0





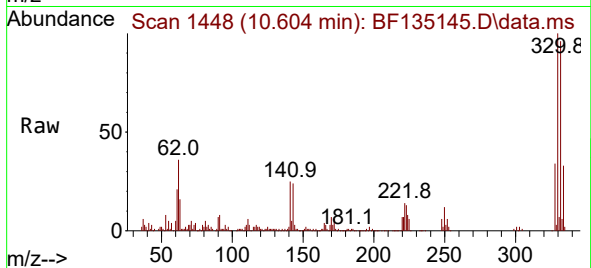
#42
2,4,6-Tribromophenol
Concen: 74.173 ng
RT: 10.604 min Scan# 1448
Delta R.T. -0.006 min
Lab File: BF135145.D
Acq: 07 Sep 2023 21:20

Instrument :

BNA_F

ClientSampleId :

AU-5-082923



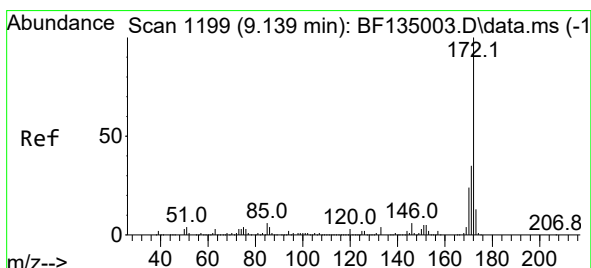
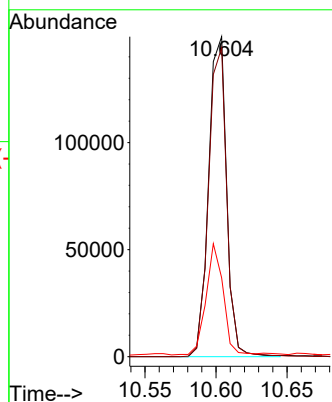
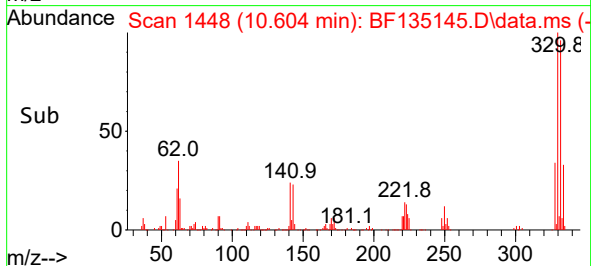
Tgt Ion:330 Resp: 132170
Ion Ratio Lower Upper
330 100
332 97.3 77.6 116.4
141 33.0 26.3 39.5

Manual Integrations

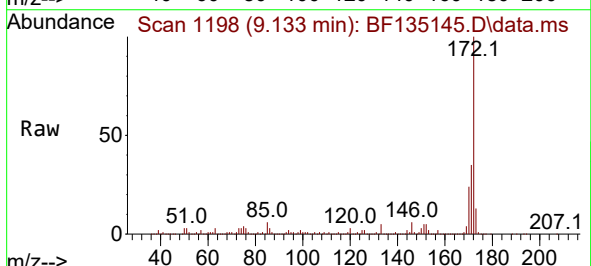
APPROVED

Reviewed By :Yogesh Patel 09/08/2023

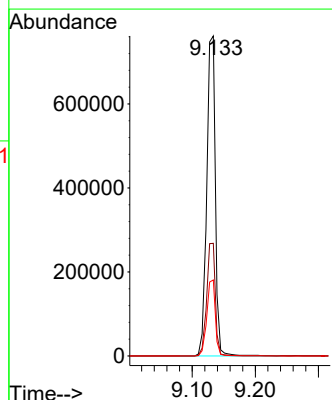
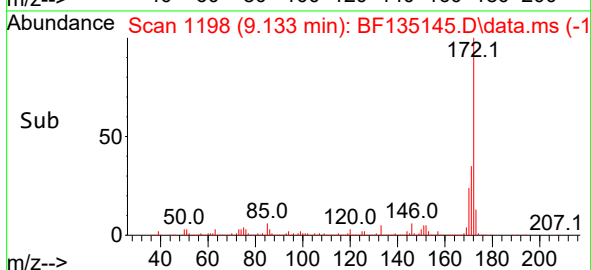
Supervised By :mohammad ahmed 09/09/2023

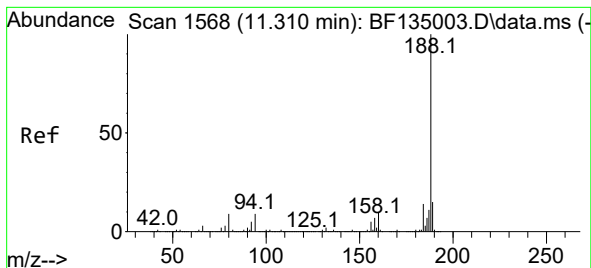


#45
2-Fluorobiphenyl
Concen: 70.440 ng
RT: 9.133 min Scan# 1198
Delta R.T. -0.006 min
Lab File: BF135145.D
Acq: 07 Sep 2023 21:20



Tgt Ion:172 Resp: 726768
Ion Ratio Lower Upper
172 100
171 35.2 28.2 42.2
170 23.8 19.0 28.4





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.298 min Scan# 1566

Delta R.T. -0.012 min

Lab File: BF135145.D

Acq: 07 Sep 2023 21:20

Instrument :

BNA_F

ClientSampleId :

AU-5-082923

Tgt Ion:188 Resp: 247290

Ion Ratio Lower Upper

188 100

94 9.4 7.0 10.4

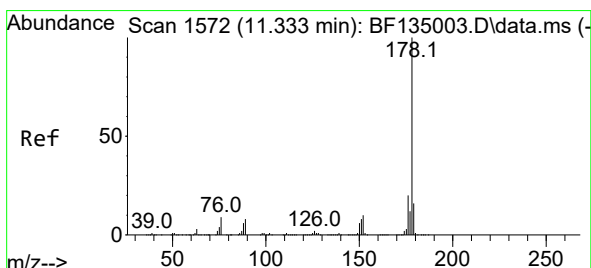
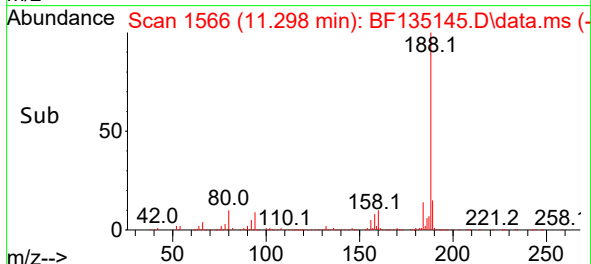
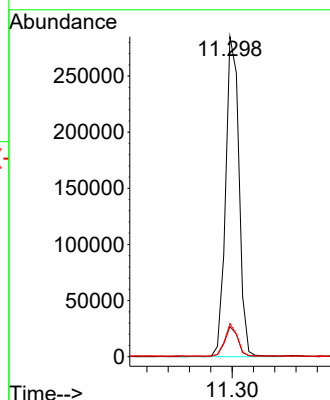
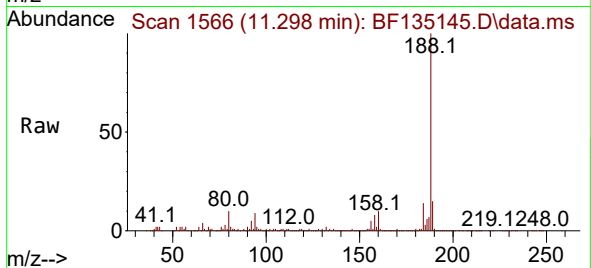
80 10.3 7.4 11.2

Manual Integrations

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Reviewed By :Yogesh Patel 09/08/2023

Supervised By :mohammad ahmed 09/09/2023



#71

Phenanthrene

Concen: 7.907 ng

RT: 11.322 min Scan# 1570

Delta R.T. -0.012 min

Lab File: BF135145.D

Acq: 07 Sep 2023 21:20

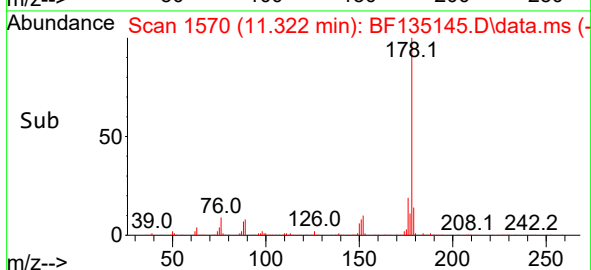
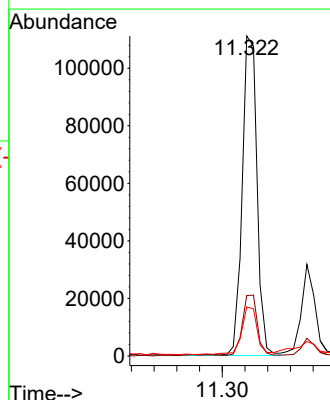
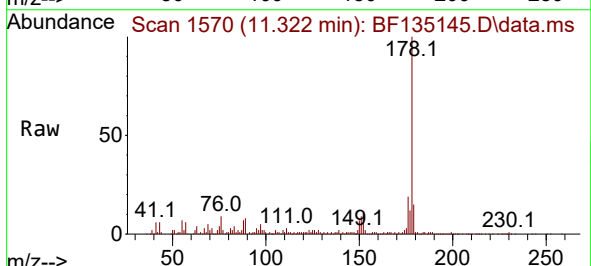
Tgt Ion:178 Resp: 100870

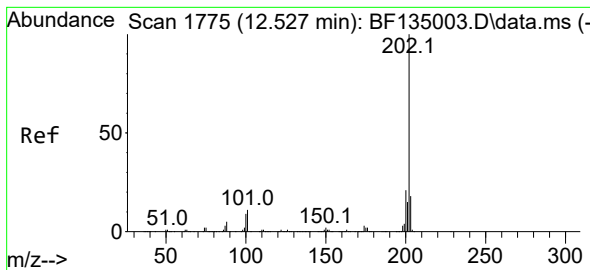
Ion Ratio Lower Upper

178 100

176 18.9 15.9 23.9

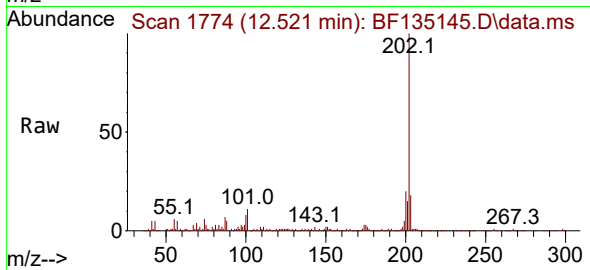
179 15.3 12.5 18.7





#75
Fluoranthene
Concen: 12.150 ng
RT: 12.521 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF135145.D
Acq: 07 Sep 2023 21:20

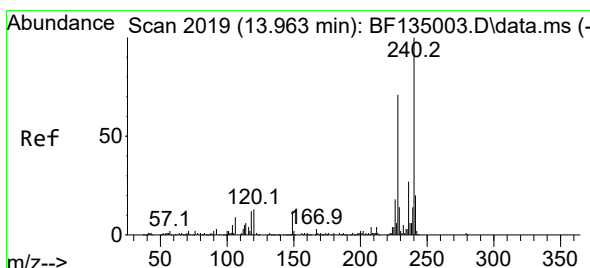
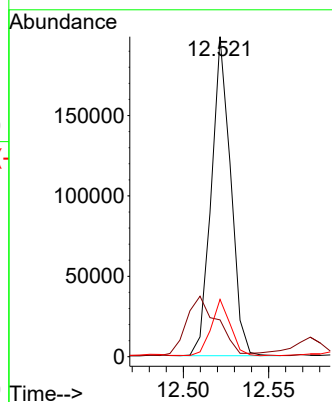
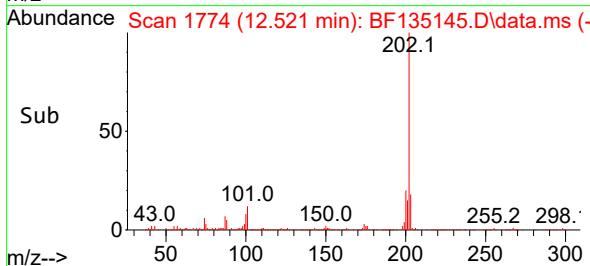
Instrument :
BNA_F
ClientSampleId :
AU-5-082923



Tgt Ion:202 Resp: 156710
Ion Ratio Lower Upper
202 100
101 11.5 0.0 31.5
203 17.9 0.0 37.8

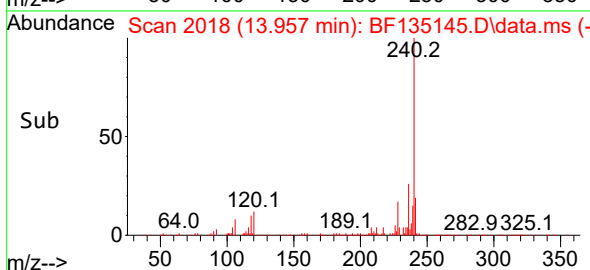
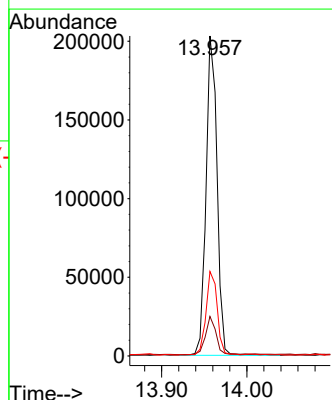
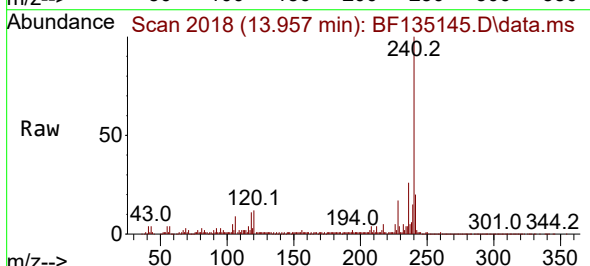
Manual Integrations
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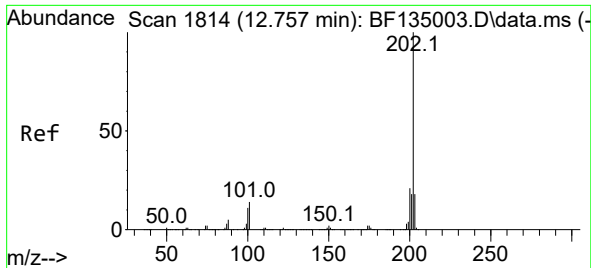
Reviewed By :Yogesh Patel 09/08/2023
Supervised By :mohammad ahmed 09/09/2023



#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.957 min Scan# 2018
Delta R.T. -0.006 min
Lab File: BF135145.D
Acq: 07 Sep 2023 21:20

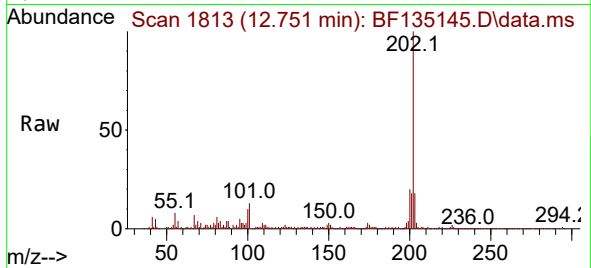
Tgt Ion:240 Resp: 181695
Ion Ratio Lower Upper
240 100
120 12.3 10.2 15.2
236 26.4 21.3 31.9





#78
Pyrene
Concen: 8.989 ng
RT: 12.751 min Scan# 1813
Delta R.T. -0.006 min
Lab File: BF135145.D
Acq: 07 Sep 2023 21:20

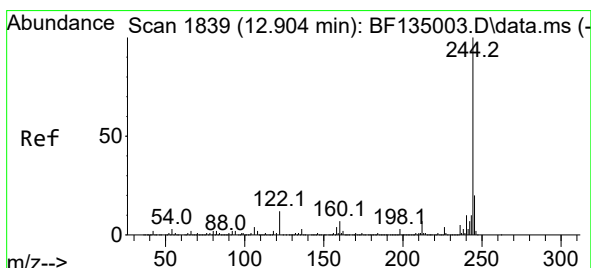
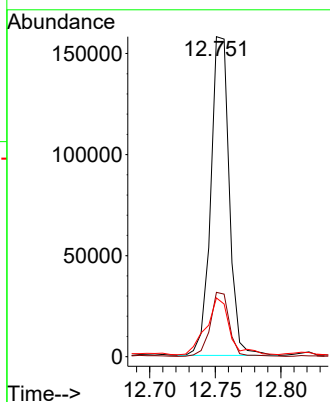
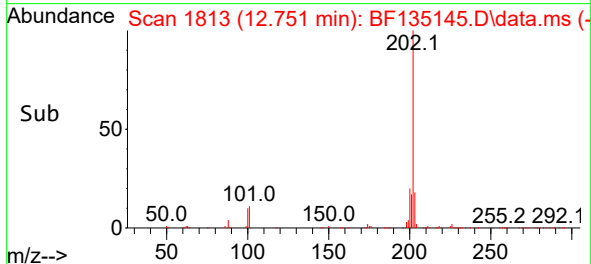
Instrument :
BNA_F
ClientSampleId :
AU-5-082923



Tgt Ion:202 Resp: 155070
Ion Ratio Lower Upper
202 100
200 20.1 17.0 25.6
203 18.4 14.2 21.2

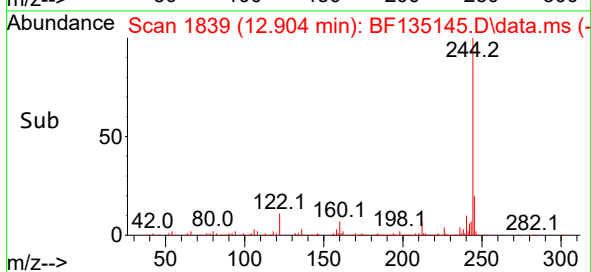
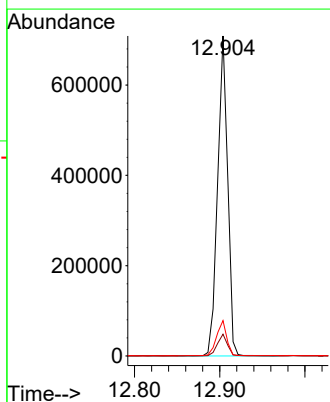
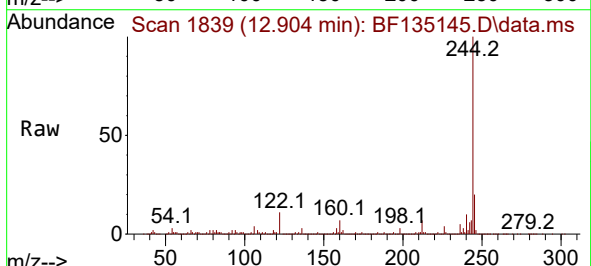
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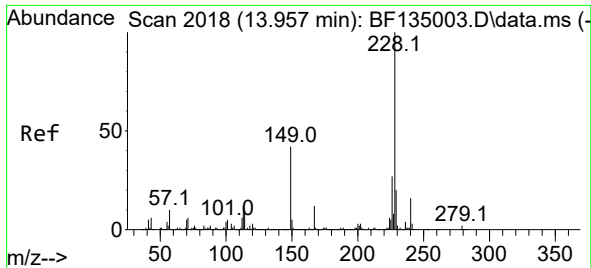
Reviewed By :Yogesh Patel 09/08/2023
Supervised By :mohammad ahmed 09/09/2023



#79
Terphenyl-d14
Concen: 52.166 ng
RT: 12.904 min Scan# 1839
Delta R.T. 0.000 min
Lab File: BF135145.D
Acq: 07 Sep 2023 21:20

Tgt Ion:244 Resp: 580816
Ion Ratio Lower Upper
244 100
212 6.8 5.6 8.4
122 11.1 9.8 14.6





#81
Benzo(a)anthracene
Concen: 6.995 ng
RT: 13.951 min Scan# 2018
Delta R.T. -0.006 min
Lab File: BF135145.D
Acq: 07 Sep 2023 21:20

Instrument :

BNA_F

ClientSampleId :

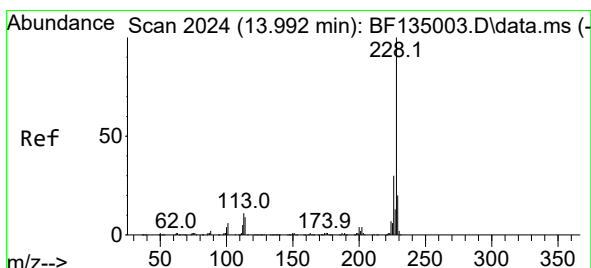
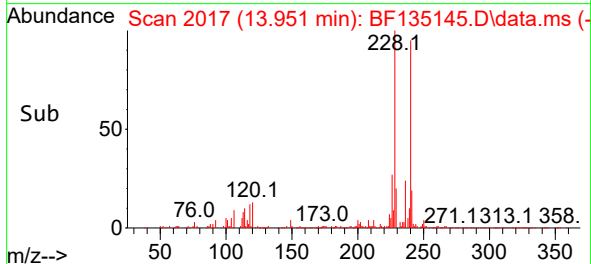
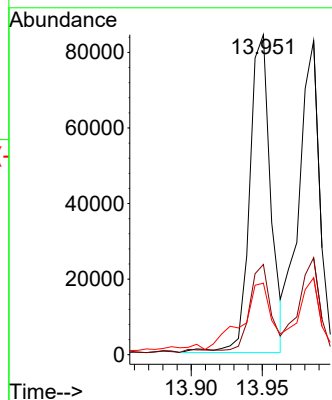
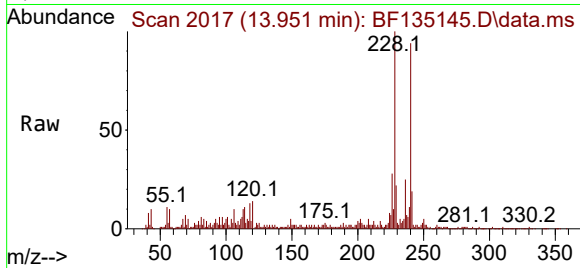
AU-5-082923

Tgt Ion:228 Resp: 86695
Ion Ratio Lower Upper
228 100
226 28.2 21.6 32.4
229 22.3 15.6 23.4

Manual Integrations

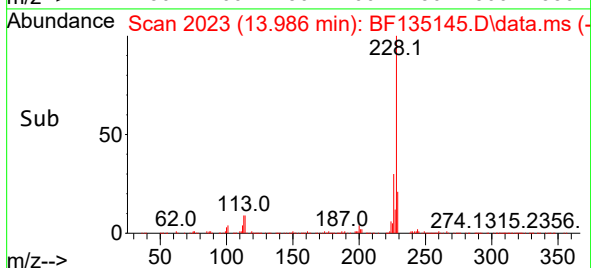
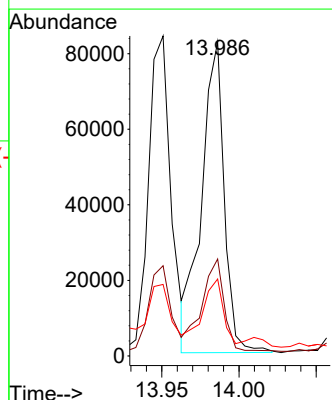
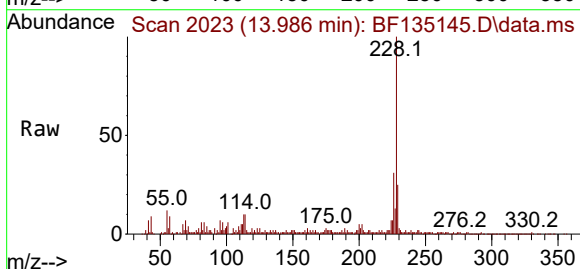
APPROVED

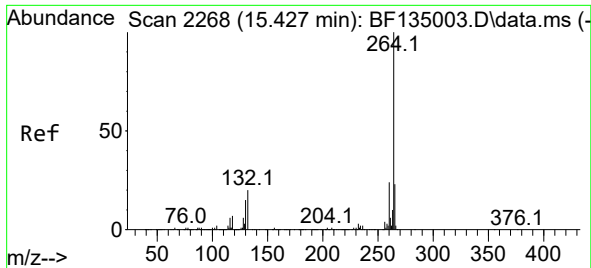
Reviewed By :Yogesh Patel 09/08/2023
Supervised By :mohammad ahmed 09/09/2023



#83
Chrysene
Concen: 6.919 ng m
RT: 13.986 min Scan# 2023
Delta R.T. -0.006 min
Lab File: BF135145.D
Acq: 07 Sep 2023 21:20

Tgt Ion:228 Resp: 84275
Ion Ratio Lower Upper
228 100
226 30.9 24.2 36.4
229 24.5 15.9 23.9#





#86
Perylene-d12
Concen: 20.000 ng
RT: 15.427 min Scan# 21
Delta R.T. 0.000 min
Lab File: BF135145.D
Acq: 07 Sep 2023 21:20

Instrument :

BNA_F

ClientSampleId :

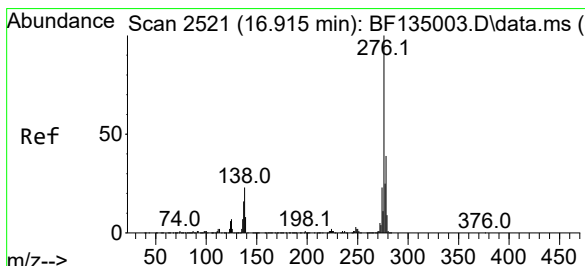
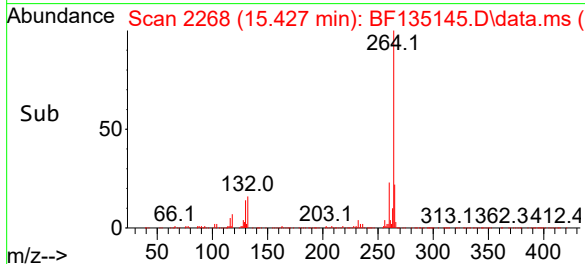
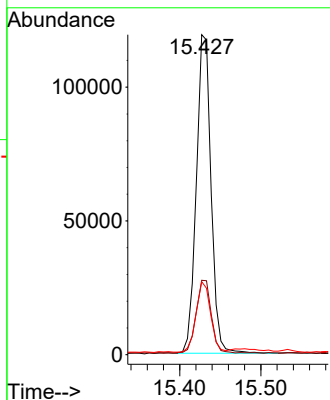
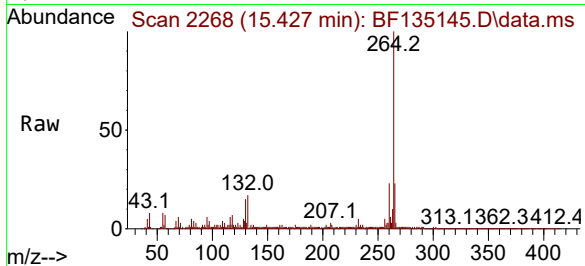
AU-5-082923

Tgt Ion:264 Resp: 150938
Ion Ratio Lower Upper
264 100
260 23.2 19.0 28.6
265 22.8 18.2 27.2

Manual Integrations

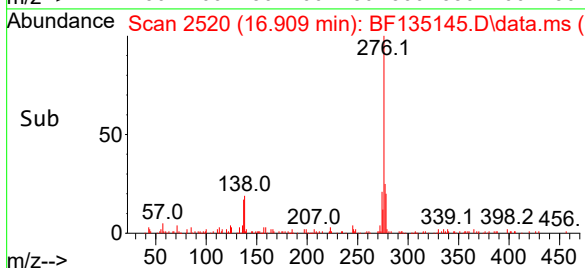
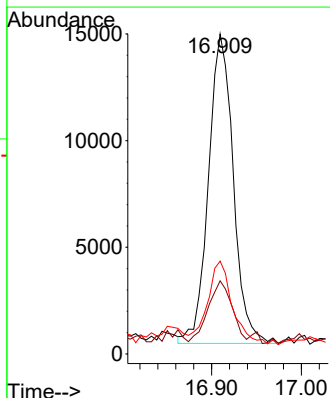
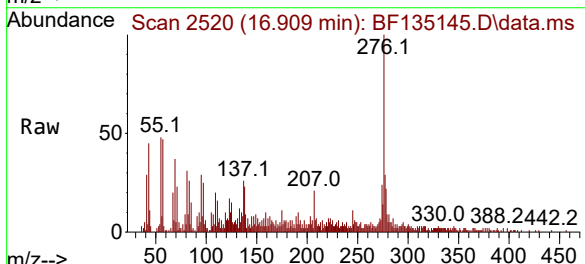
APPROVED

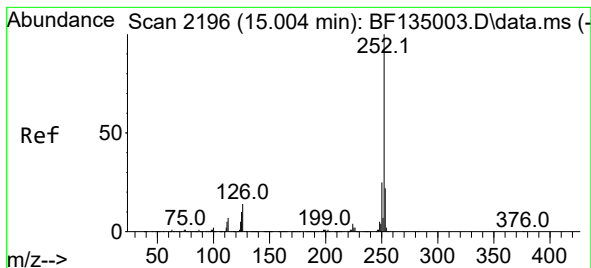
Reviewed By :Yogesh Patel 09/08/2023
Supervised By :mohammad ahmed 09/09/2023



#87
Indeno(1,2,3-cd)pyrene
Concen: 2.746 ng
RT: 16.909 min Scan# 2520
Delta R.T. -0.006 min
Lab File: BF135145.D
Acq: 07 Sep 2023 21:20

Tgt Ion:276 Resp: 27916
Ion Ratio Lower Upper
276 100
138 18.5 20.2 30.2#
277 27.5 20.4 30.6





#88

Benzo(b)fluoranthene

Concen: 9.123 ng m

RT: 15.004 min Scan# 2196

Delta R.T. 0.000 min

Lab File: BF135145.D

Acq: 07 Sep 2023 21:20

Instrument :

BNA_F

ClientSampleId :

AU-5-082923

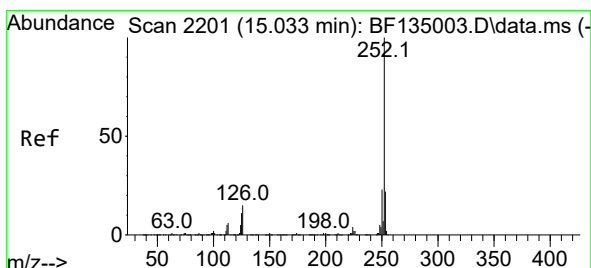
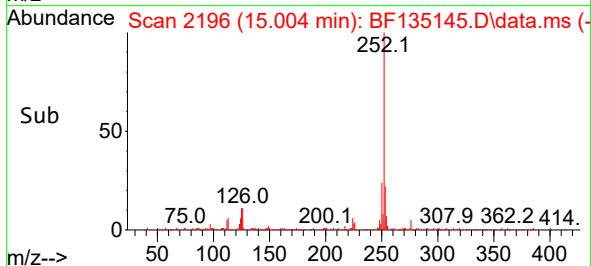
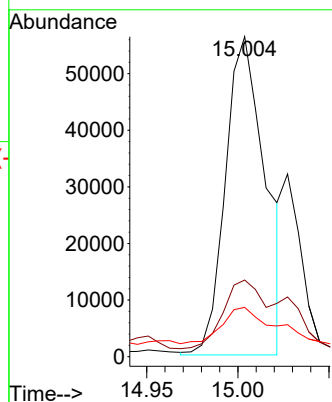
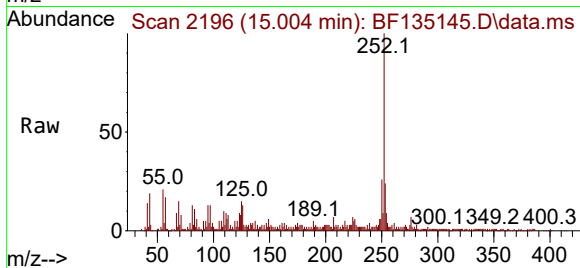
Tgt Ion:252 Resp: 8568
 Ion Ratio Lower Upper
 252 100
 253 23.9 17.8 26.8
 125 15.4 8.4 12.6

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 09/08/2023

Supervised By :mohammad ahmed 09/09/2023



#89

Benzo(k)fluoranthene

Concen: 2.666 ng m

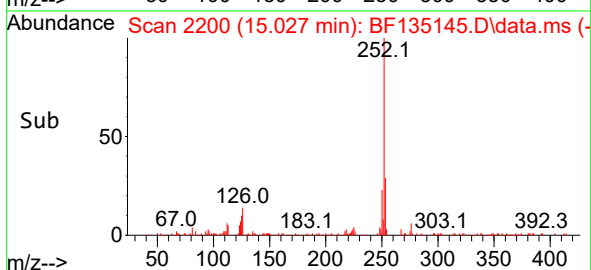
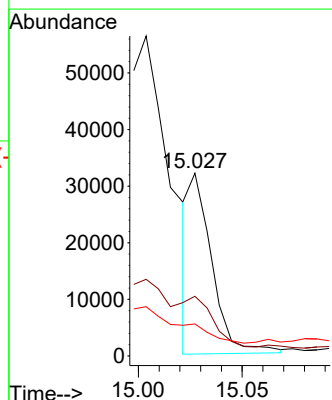
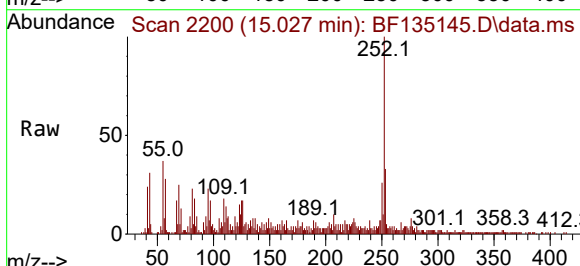
RT: 15.027 min Scan# 2200

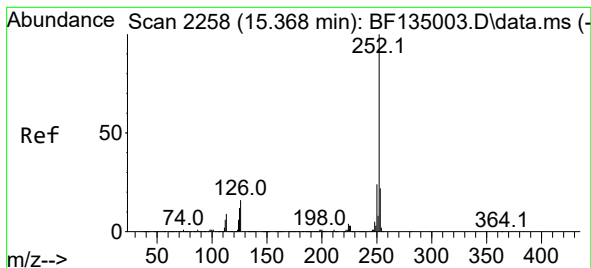
Delta R.T. -0.006 min

Lab File: BF135145.D

Acq: 07 Sep 2023 21:20

Tgt Ion:252 Resp: 24184
 Ion Ratio Lower Upper
 252 100
 253 32.7 17.4 26.0#
 125 17.5 8.5 12.7#





#90

Benzo(a)pyrene

Concen: 6.015 ng

RT: 15.368 min Scan# 21

Delta R.T. 0.000 min

Lab File: BF135145.D

Acq: 07 Sep 2023 21:20

Instrument :

BNA_F

ClientSampleId :

AU-5-082923

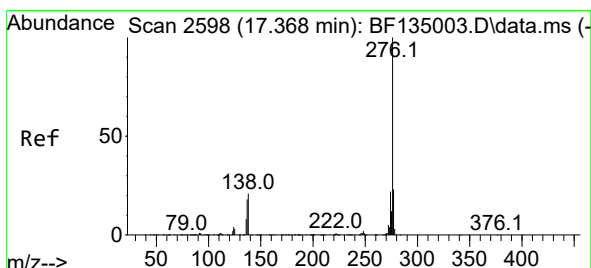
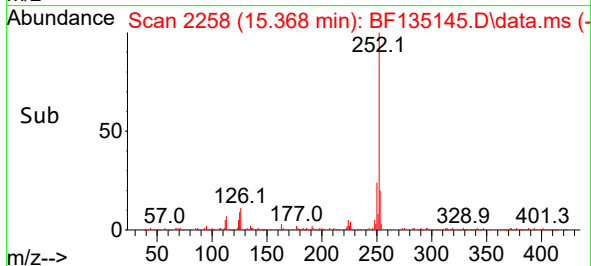
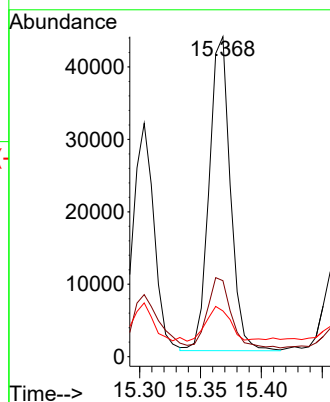
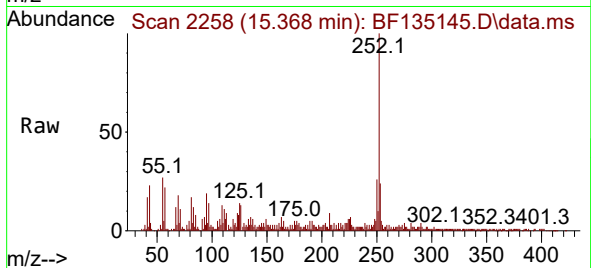
Tgt Ion:	252	Resp:	52474
Ion Ratio	Lower	Upper	
252	100		
253	23.8	17.4	26.0
125	14.3	9.5	14.3

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 09/08/2023

Supervised By :mohammad ahmed 09/09/2023



#92

Benzo(g,h,i)perylene

Concen: 3.204 ng

RT: 17.362 min Scan# 2597

Delta R.T. -0.006 min

Lab File: BF135145.D

Acq: 07 Sep 2023 21:20

Tgt Ion:	276	Resp:	27442
Ion Ratio	Lower	Upper	
276	100		
277	26.8	18.5	27.7
138	26.3	17.1	25.7

