

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF101823\  
 Data File : BF135870.D  
 Acq On : 19 Oct 2023 02:59  
 Operator : CG\JU  
 Sample : 04767-07  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 C-1(0-5)

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 10/19/2023  
 Supervised By :mohammad ahmed 10/20/2023

Quant Time: Oct 19 04:44:34 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF101323.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Oct 17 01:22:00 2023  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.740	152	76563	20.000	ng	0.00	
21) Naphthalene-d8	8.016	136	271424	20.000	ng	0.00	
39) Acenaphthene-d10	9.775	164	109128	20.000	ng	-0.01	
64) Phenanthrene-d10	11.269	188	182745	20.000	ng	-0.01	
76) Chrysene-d12	13.939	240	151978	20.000	ng	-0.01	
86) Perylene-d12	15.421	264	117080	20.000	ng	0.00	
System Monitoring Compounds							
5) 2-Fluorophenol	5.375	112	423286	88.886	ng	0.00	
7) Phenol-d6	6.393	99	546951	92.051	ng	0.00	
23) Nitrobenzene-d5	7.304	82	346481	70.208	ng	-0.01	
42) 2,4,6-Tribromophenol	10.575	330	73494	70.183	ng	-0.01	
45) 2-Fluorobiphenyl	9.092	172	569567	81.604	ng	-0.01	
79) Terphenyl-d14	12.869	244	518808	63.219	ng	-0.01	
Target Compounds							
31) Naphthalene	8.039	128	53529	4.043	ng		Qvalue 99
52) Acenaphthene	9.804	154	13416	2.245	ng		97
55) Dibenzofuran	9.981	168	28010	3.106	ng		96
58) Fluorene	10.328	166	34357	4.867	ng		98
71) Phenanthrene	11.298	178	240037	27.419	ng		98
72) Anthracene	11.351	178	67356	7.425	ng		99
73) Carbazole	11.516	167	25831	3.053	ng		95
75) Fluoranthene	12.498	202	317841	32.712	ng		95
78) Pyrene	12.727	202	281881	23.340	ng		99
81) Benzo(a)anthracene	13.927	228	153765	15.403	ng		99
83) Chrysene	13.969	228	125478	12.978	ng		97
87) Indeno(1,2,3-cd)pyrene	16.927	276	47135	7.389	ng		94
88) Benzo(b)fluoranthene	14.992	252	123437m	18.838	ng		
89) Benzo(k)fluoranthene	15.015	252	49876m	7.840	ng		
90) Benzo(a)pyrene	15.357	252	88463	14.357	ng		97
91) Dibenzo(a,h)anthracene	16.927	278	12010	2.297	ng	#	78
92) Benzo(g,h,i)perylene	17.386	276	46871	8.725	ng		98

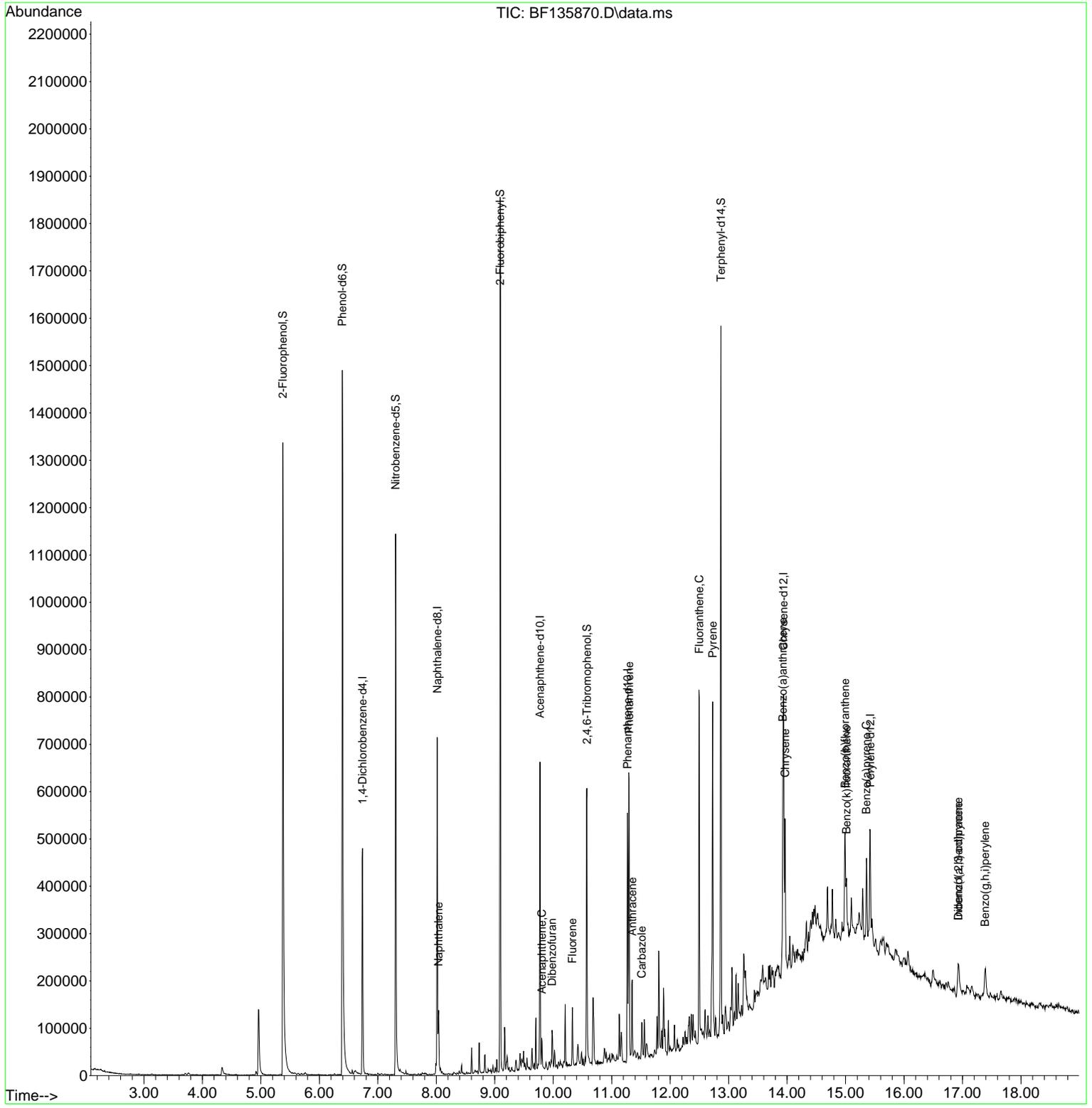
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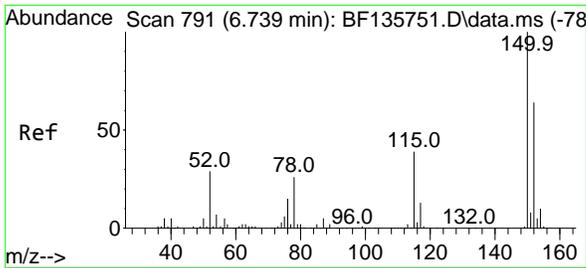
Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF101823\  
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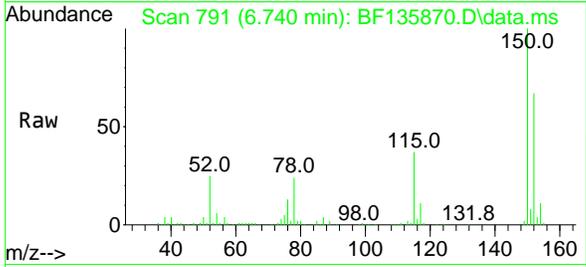
**Manual Integrations**  
**APPROVED**  
 Reviewed By :Yogesh Patel 10/19/2023  
 Supervised By :mohammad ahmed 10/20/2023





#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 6.740 min Scan# 791  
 Delta R.T. -0.006 min  
 Lab File: BF135870.D  
 Acq: 19 Oct 2023 02:59

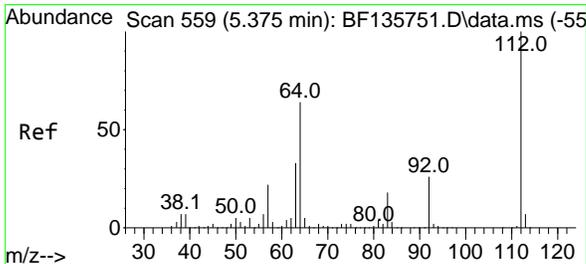
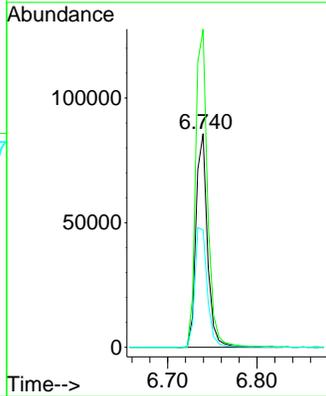
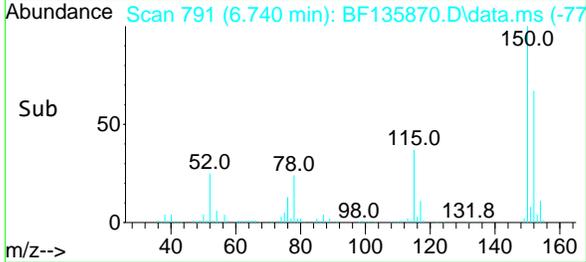
Instrument : BNA\_F  
 ClientSampleId : C-1(0-5)



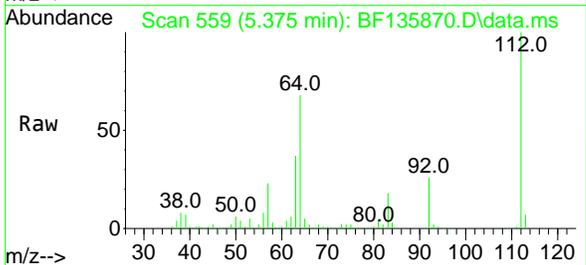
Tgt Ion:152 Resp: 7656  
 Ion Ratio Lower Upper  
 152 100  
 150 148.9 124.5 186.7  
 115 54.9 49.0 73.4

Manual Integrations  
**APPROVED**

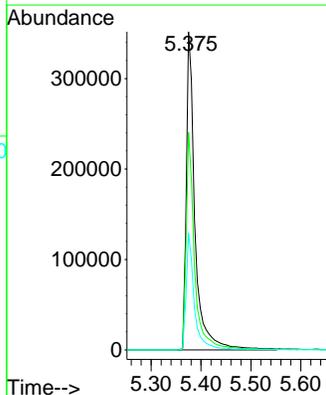
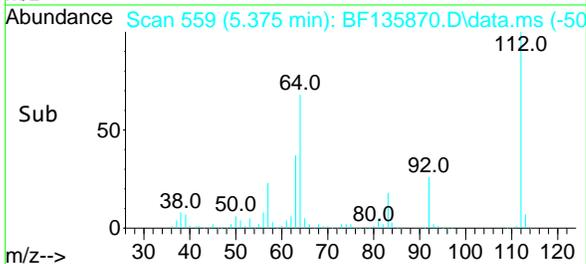
Reviewed By :Yogesh Patel 10/19/2023  
 Supervised By :mohammad ahmed 10/20/2023

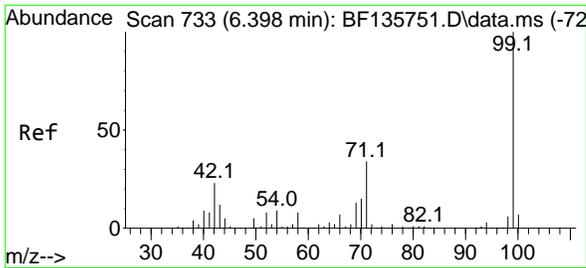


#5  
 2-Fluorophenol  
 Concen: 88.886 ng  
 RT: 5.375 min Scan# 559  
 Delta R.T. -0.000 min  
 Lab File: BF135870.D  
 Acq: 19 Oct 2023 02:59



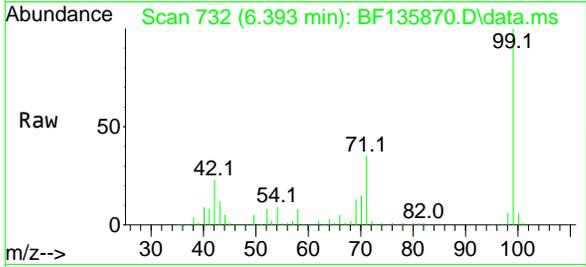
Tgt Ion:112 Resp: 423286  
 Ion Ratio Lower Upper  
 112 100  
 64 68.4 51.2 76.8  
 63 36.7 26.1 39.1





#7  
 Phenol-d6  
 Concen: 92.051 ng  
 RT: 6.393 min Scan# 71  
 Delta R.T. -0.006 min  
 Lab File: BF135870.D  
 Acq: 19 Oct 2023 02:59

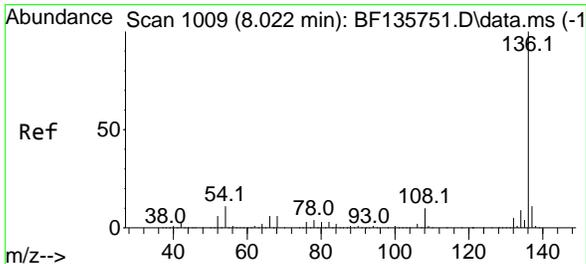
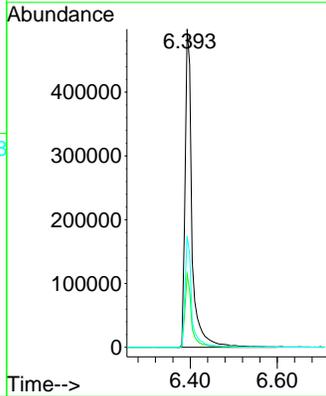
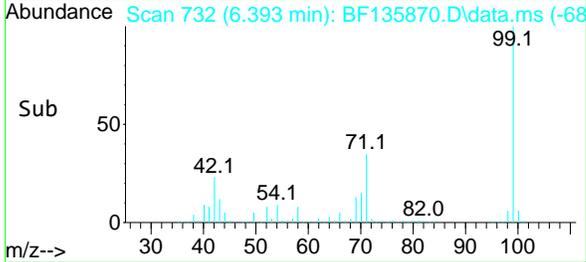
Instrument : BNA\_F  
 ClientSampleId : C-1(0-5)



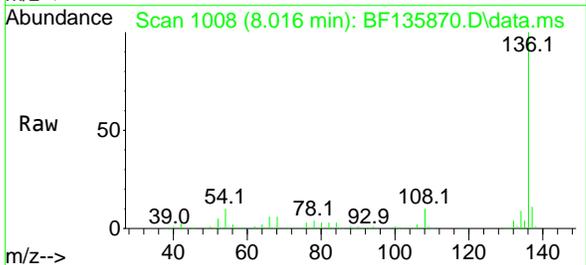
Tgt Ion: 99 Resp: 54695  
 Ion Ratio Lower Upper  
 99 100  
 42 23.0 18.4 27.6  
 71 34.9 27.2 40.8

Manual Integrations  
 APPROVED

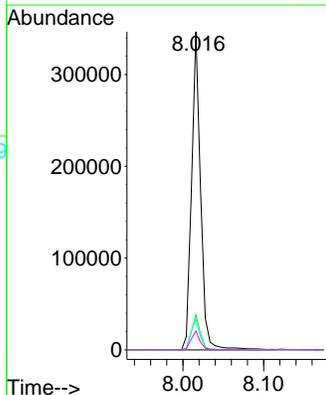
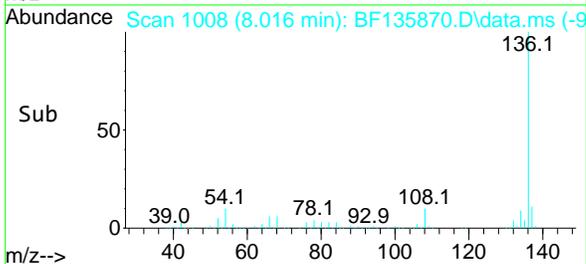
Reviewed By :Yogesh Patel 10/19/2023  
 Supervised By :mohammad ahmed 10/20/2023

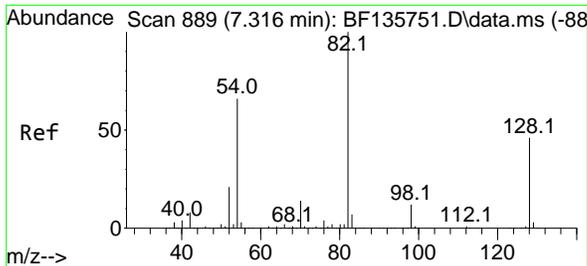


#21  
 Naphthalene-d8  
 Concen: 20.000 ng  
 RT: 8.016 min Scan# 1008  
 Delta R.T. -0.006 min  
 Lab File: BF135870.D  
 Acq: 19 Oct 2023 02:59



Tgt Ion:136 Resp: 271424  
 Ion Ratio Lower Upper  
 136 100  
 137 11.0 8.6 12.8  
 54 9.6 8.5 12.7  
 68 6.0 4.8 7.2





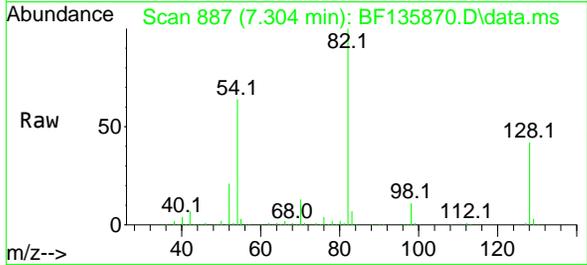
#23  
 Nitrobenzene-d5  
 Concen: 70.208 ng  
 RT: 7.304 min Scan# 81  
 Delta R.T. -0.012 min  
 Lab File: BF135870.D  
 Acq: 19 Oct 2023 02:59

Instrument :

BNA\_F

ClientSampleId :

C-1(0-5)

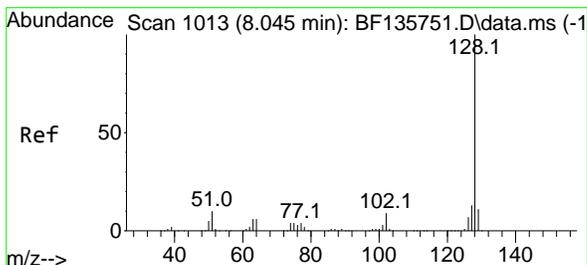
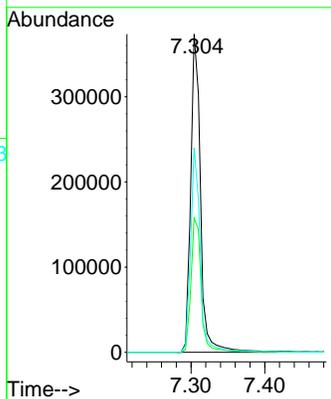
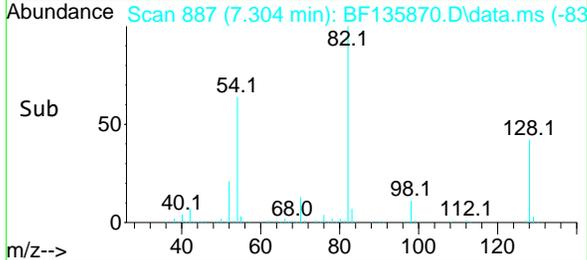


Tgt Ion: 82 Resp: 34648  
 Ion Ratio Lower Upper  
 82 100  
 128 42.2 37.0 55.6  
 54 64.3 52.8 79.2

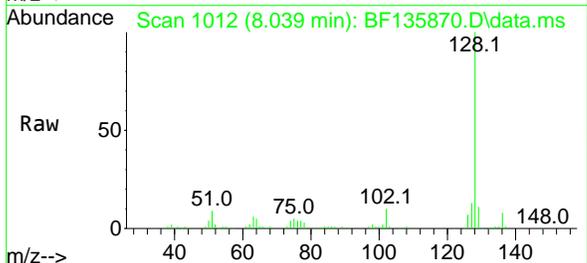
Manual Integrations

APPROVED

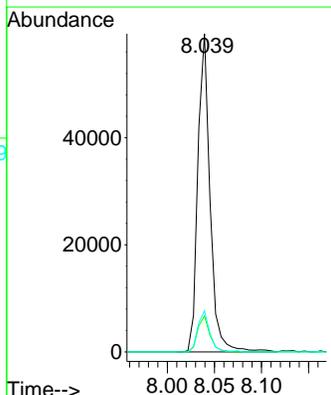
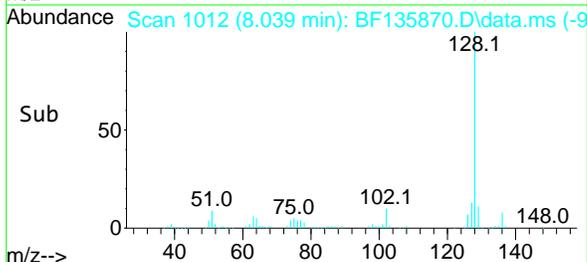
Reviewed By :Yogesh Patel 10/19/2023  
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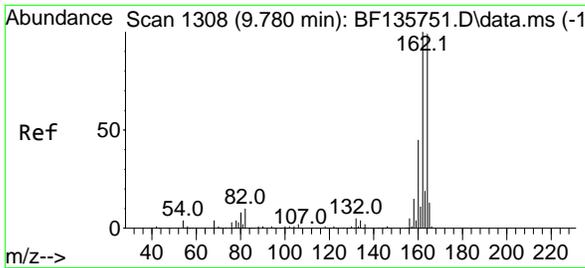


#31  
 Naphthalene  
 Concen: 4.043 ng  
 RT: 8.039 min Scan# 1012  
 Delta R.T. -0.006 min  
 Lab File: BF135870.D  
 Acq: 19 Oct 2023 02:59



Tgt Ion:128 Resp: 53529  
 Ion Ratio Lower Upper  
 128 100  
 129 11.3 8.7 13.1  
 127 12.9 10.2 15.4





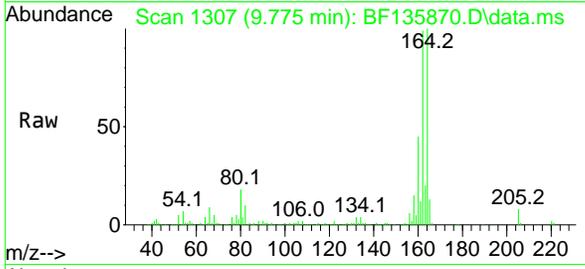
#39  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 9.775 min Scan# 11  
 Delta R.T. -0.012 min  
 Lab File: BF135870.D  
 Acq: 19 Oct 2023 02:59

Instrument :

BNA\_F

ClientSampleId :

C-1(0-5)



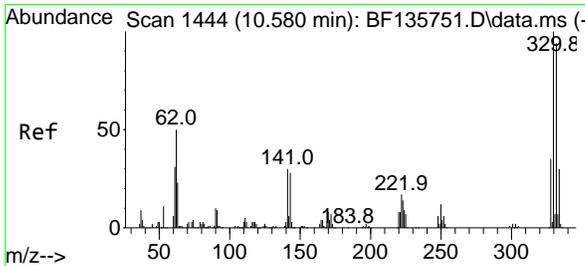
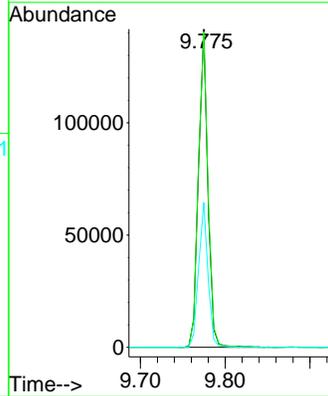
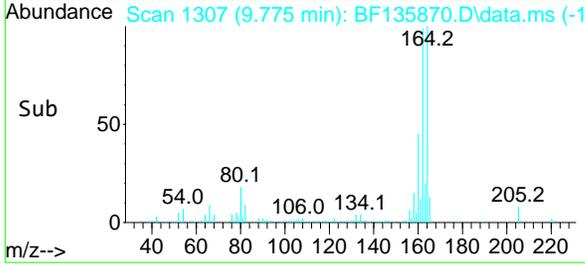
Tgt Ion:164 Resp: 109128  
 Ion Ratio Lower Upper  
 164 100  
 162 99.2 80.8 121.2  
 160 45.5 36.6 54.8

Manual Integrations

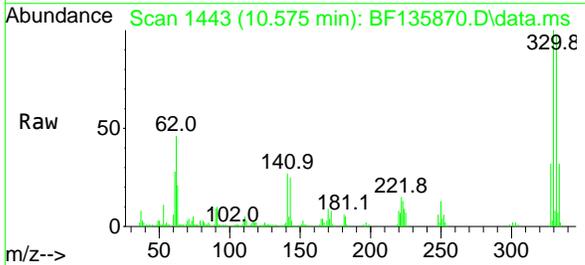
APPROVED

Reviewed By :Yogesh Patel 10/19/2023

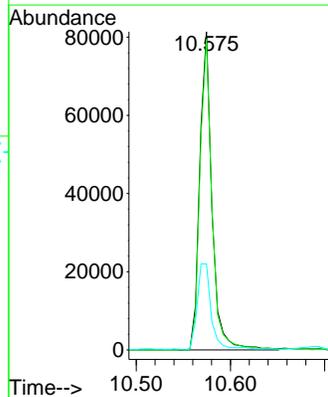
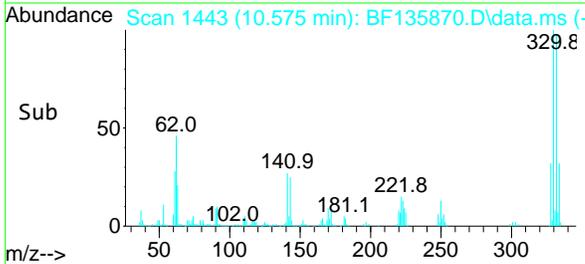
Supervised By :mohammad ahmed 10/20/2023

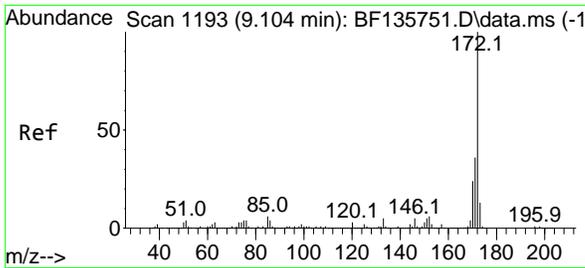


#42  
 2,4,6-Tribromophenol  
 Concen: 70.183 ng  
 RT: 10.575 min Scan# 1443  
 Delta R.T. -0.012 min  
 Lab File: BF135870.D  
 Acq: 19 Oct 2023 02:59



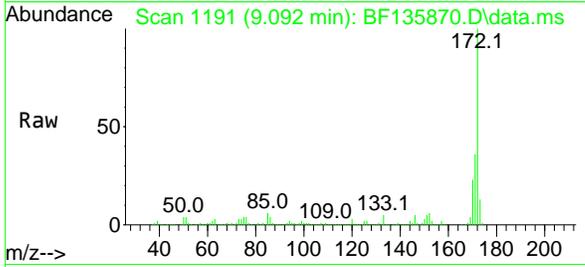
Tgt Ion:330 Resp: 73494  
 Ion Ratio Lower Upper  
 330 100  
 332 96.4 75.0 112.4  
 141 31.8 25.8 38.6





#45  
 2-Fluorobiphenyl  
 Concen: 81.604 ng  
 RT: 9.092 min Scan# 1191  
 Delta R.T. -0.012 min  
 Lab File: BF135870.D  
 Acq: 19 Oct 2023 02:59

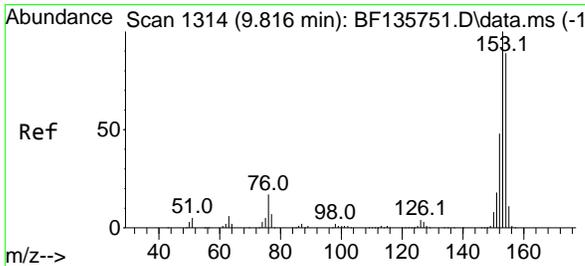
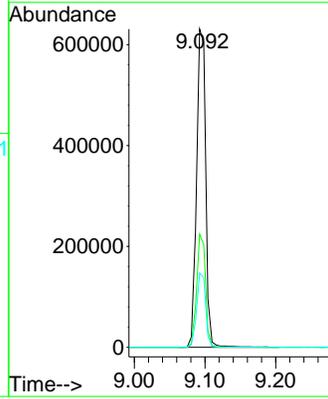
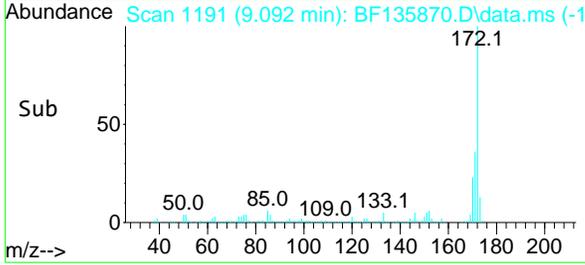
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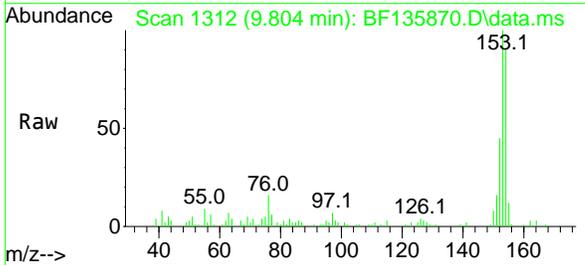
Tgt Ion:172 Resp: 56956  
 Ion Ratio Lower Upper  
 172 100  
 171 35.5 28.4 42.6  
 170 23.4 18.8 28.2

Manual Integrations  
 APPROVED

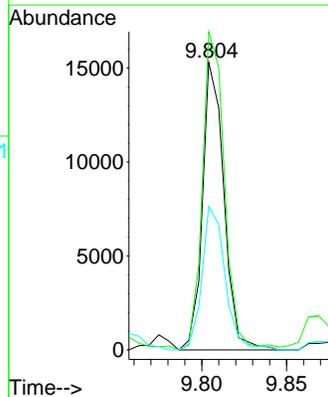
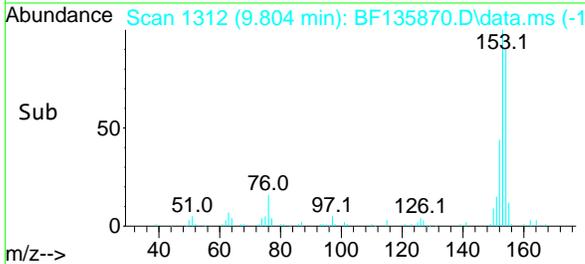
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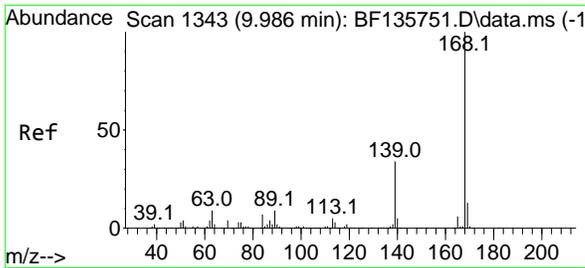


#52  
 Acenaphthene  
 Concen: 2.245 ng  
 RT: 9.804 min Scan# 1312  
 Delta R.T. -0.012 min  
 Lab File: BF135870.D  
 Acq: 19 Oct 2023 02:59



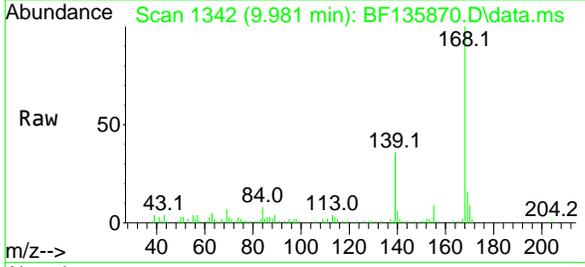
Tgt Ion:154 Resp: 13416  
 Ion Ratio Lower Upper  
 154 100  
 153 110.6 90.1 135.1  
 152 49.9 43.1 64.7





#55  
 Dibenzofuran  
 Concen: 3.106 ng  
 RT: 9.981 min Scan# 11  
 Delta R.T. -0.012 min  
 Lab File: BF135870.D  
 Acq: 19 Oct 2023 02:59

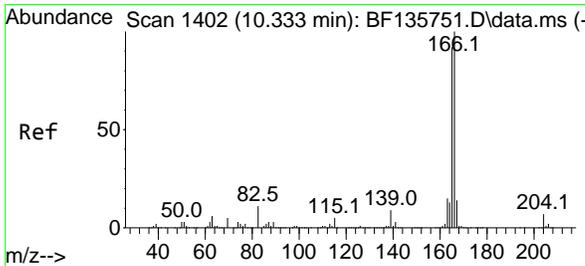
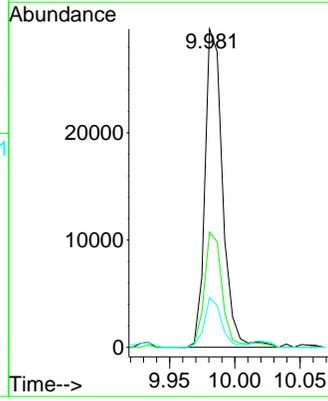
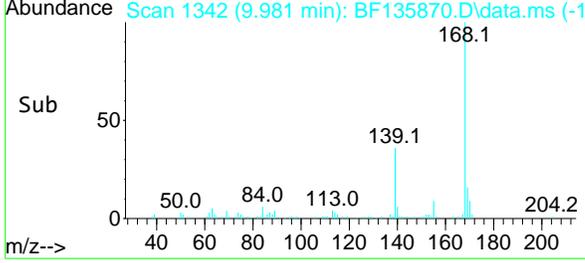
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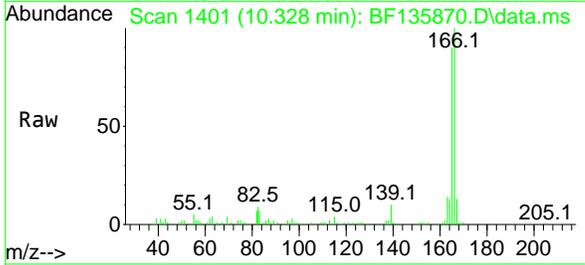
Tgt Ion:168 Resp: 28010  
 Ion Ratio Lower Upper  
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 139 36.2 31.0 46.4  
 169 15.6 10.7 16.1

Manual Integrations  
 APPROVED

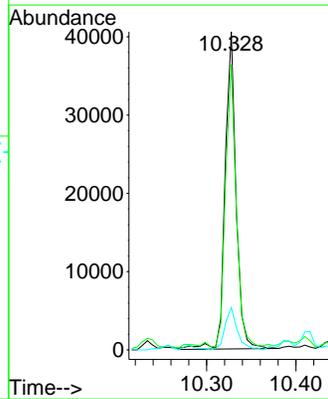
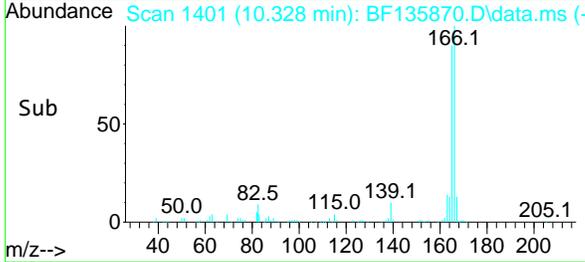
Reviewed By :Yogesh Patel 10/19/2023  
 Supervised By :mohammad ahmed 10/20/2023

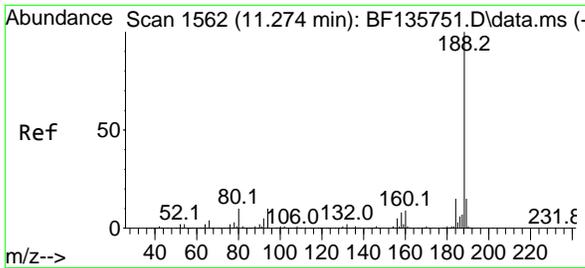


#58  
 Fluorene  
 Concen: 4.867 ng  
 RT: 10.328 min Scan# 1401  
 Delta R.T. -0.012 min  
 Lab File: BF135870.D  
 Acq: 19 Oct 2023 02:59



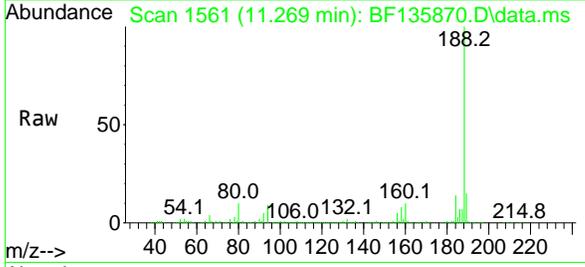
Tgt Ion:166 Resp: 34357  
 Ion Ratio Lower Upper  
 166 100  
 165 89.5 73.4 110.0  
 167 13.3 11.0 16.6





#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.269 min Scan# 1561  
 Delta R.T. -0.012 min  
 Lab File: BF135870.D  
 Acq: 19 Oct 2023 02:59

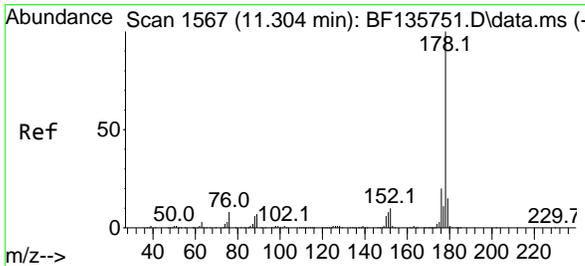
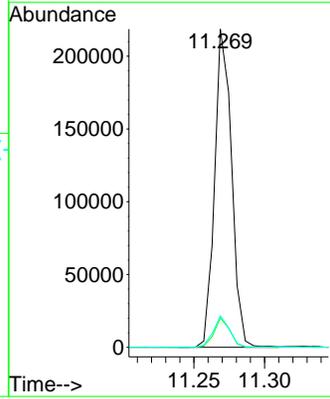
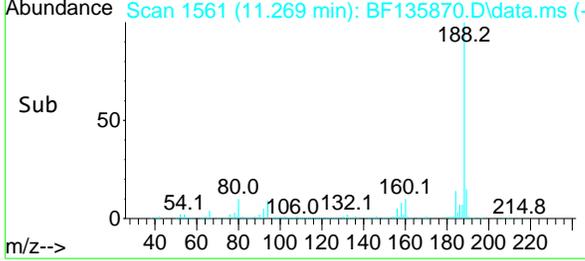
Instrument : BNA\_F  
 Client Sample Id : C-1(0-5)



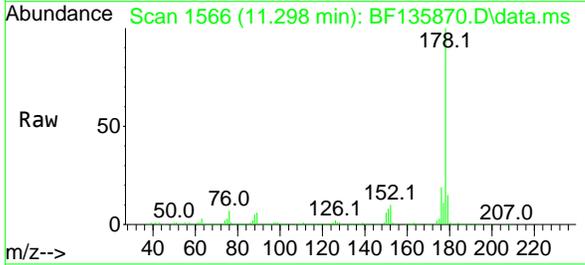
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 Ion Ratio Lower Upper  
 188 100  
 94 9.2 8.0 12.0  
 80 9.9 8.3 12.5

Manual Integrations  
 APPROVED

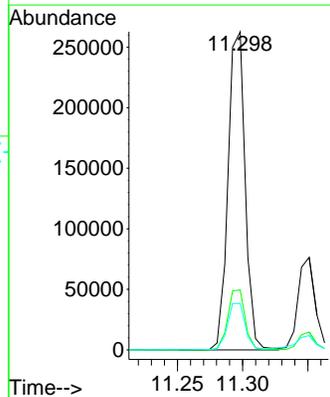
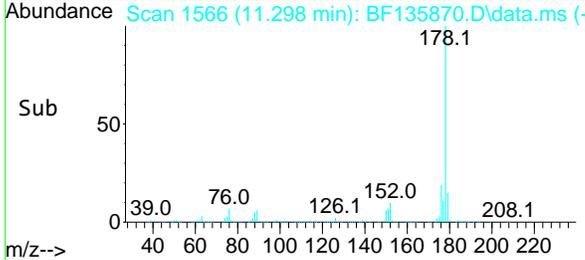
Reviewed By : Yogesh Patel 10/19/2023  
 Supervised By : mohammad ahmed 10/20/2023

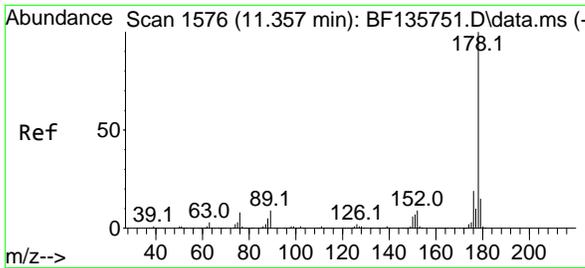


#71  
 Phenanthrene  
 Concen: 27.419 ng  
 RT: 11.298 min Scan# 1566  
 Delta R.T. -0.006 min  
 Lab File: BF135870.D  
 Acq: 19 Oct 2023 02:59



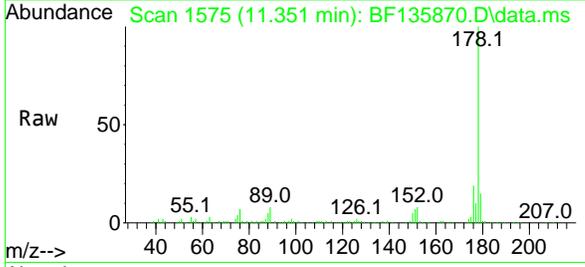
Tgt Ion: 178 Resp: 240037  
 Ion Ratio Lower Upper  
 178 100  
 176 18.9 16.0 24.0  
 179 14.6 12.2 18.4





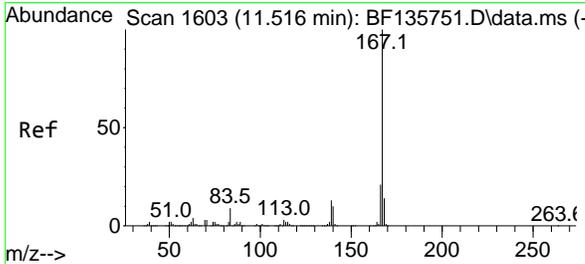
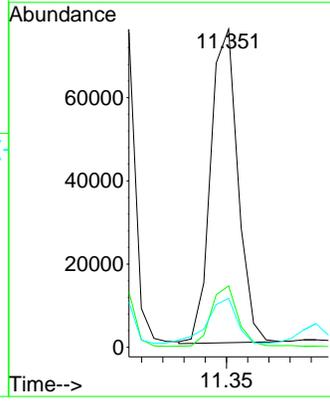
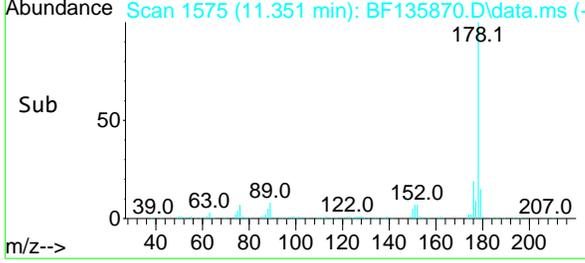
#72  
 Anthracene  
 Concen: 7.425 ng  
 RT: 11.351 min Scan# 11  
 Delta R.T. -0.006 min  
 Lab File: BF135870.D  
 Acq: 19 Oct 2023 02:59

Instrument : BNA\_F  
 ClientSampleId : C-1(0-5)

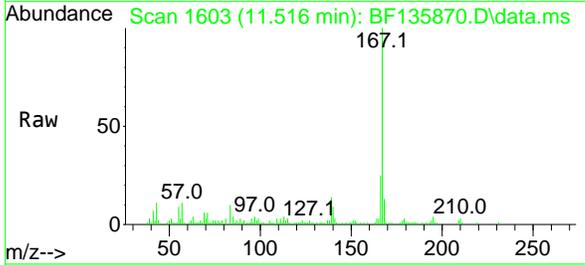


Tgt Ion:178 Resp: 67350  
 Ion Ratio Lower Upper  
 178 100  
 176 19.3 15.1 22.7  
 179 15.4 12.3 18.5

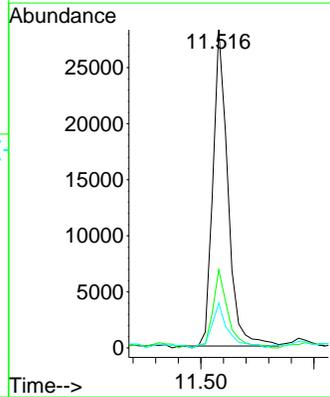
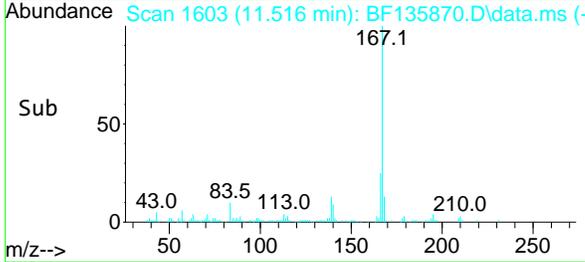
Manual Integrations  
**APPROVED**  
 Reviewed By :Yogesh Patel 10/19/2023  
 Supervised By :mohammad ahmed 10/20/2023

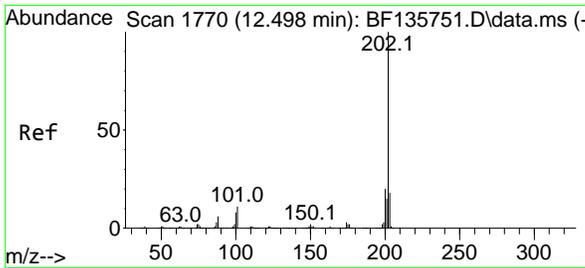


#73  
 Carbazole  
 Concen: 3.053 ng  
 RT: 11.516 min Scan# 1603  
 Delta R.T. -0.006 min  
 Lab File: BF135870.D  
 Acq: 19 Oct 2023 02:59



Tgt Ion:167 Resp: 25831  
 Ion Ratio Lower Upper  
 167 100  
 166 24.6 17.1 25.7  
 139 14.1 10.2 15.4





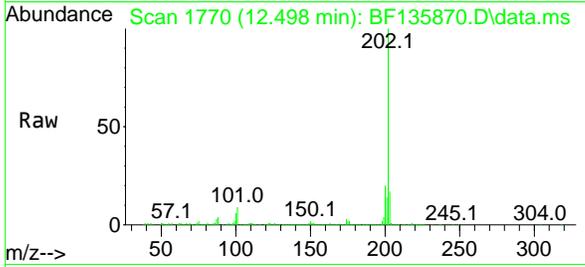
#75  
 Fluoranthene  
 Concen: 32.712 ng  
 RT: 12.498 min Scan# 11  
 Delta R.T. -0.006 min  
 Lab File: BF135870.D  
 Acq: 19 Oct 2023 02:59

Instrument :

BNA\_F

ClientSampleId :

C-1(0-5)



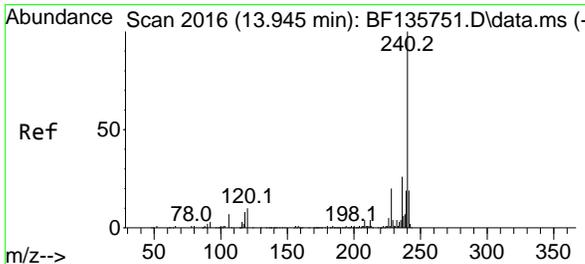
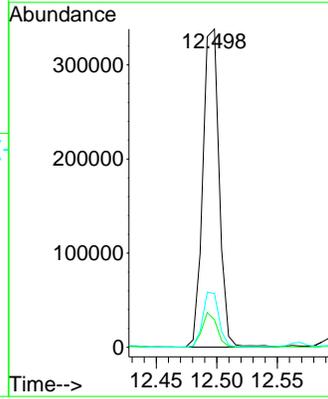
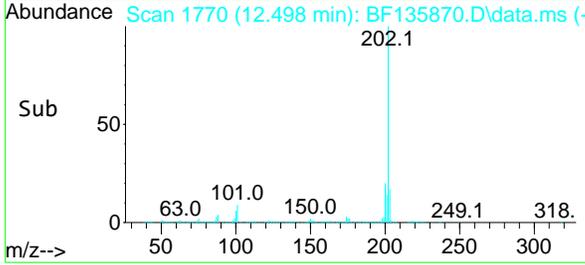
Tgt Ion:202 Resp: 31784  
 Ion Ratio Lower Upper  
 202 100  
 101 8.6 0.0 31.5  
 203 16.9 0.0 38.3

Manual Integrations

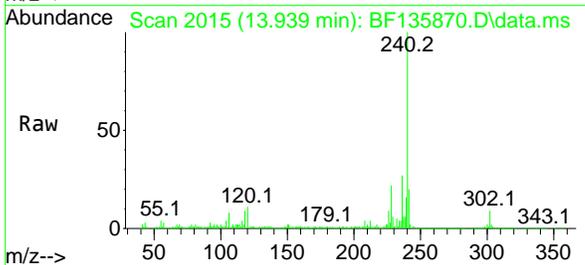
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Reviewed By :Yogesh Patel 10/19/2023

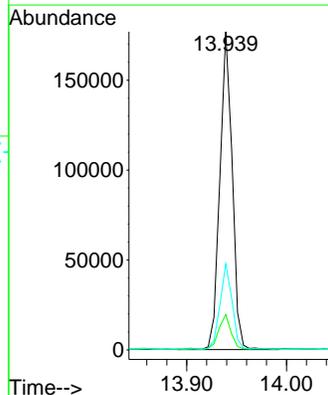
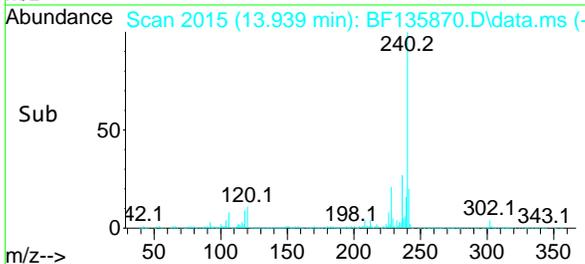
Supervised By :mohammad ahmed 10/20/2023

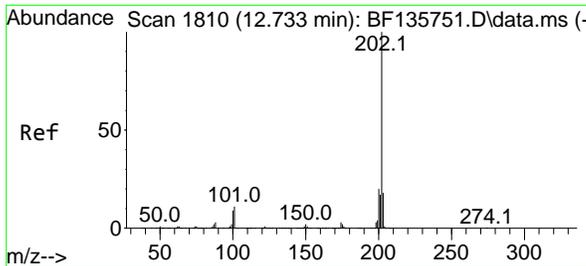


#76  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 13.939 min Scan# 2015  
 Delta R.T. -0.012 min  
 Lab File: BF135870.D  
 Acq: 19 Oct 2023 02:59



Tgt Ion:240 Resp: 151978  
 Ion Ratio Lower Upper  
 240 100  
 120 11.1 8.2 12.2  
 236 27.1 21.2 31.8





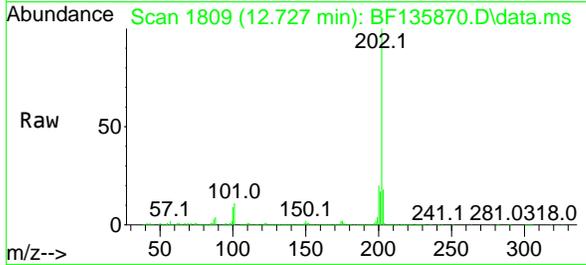
#78  
 Pyrene  
 Concen: 23.340 ng  
 RT: 12.727 min Scan# 1809  
 Delta R.T. -0.006 min  
 Lab File: BF135870.D  
 Acq: 19 Oct 2023 02:59

Instrument :

BNA\_F

ClientSampleId :

C-1(0-5)

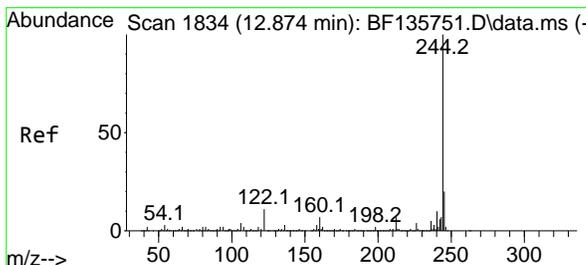
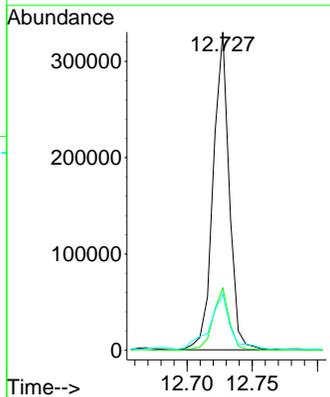
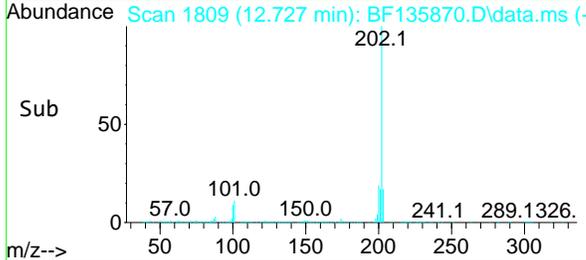


Tgt Ion:202 Resp: 28188  
 Ion Ratio Lower Upper  
 202 100  
 200 19.5 16.1 24.1  
 203 17.6 14.2 21.2

Manual Integrations

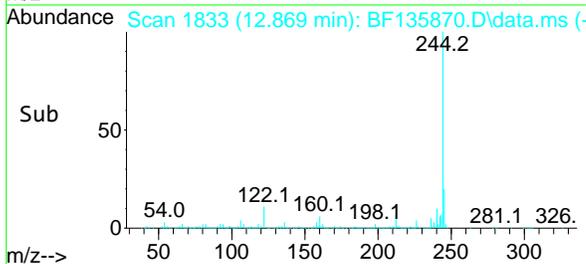
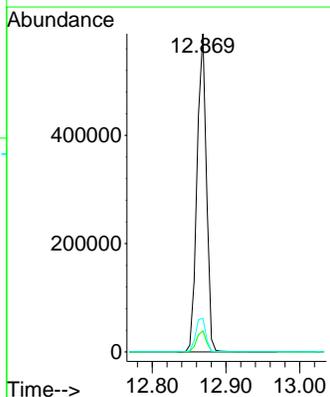
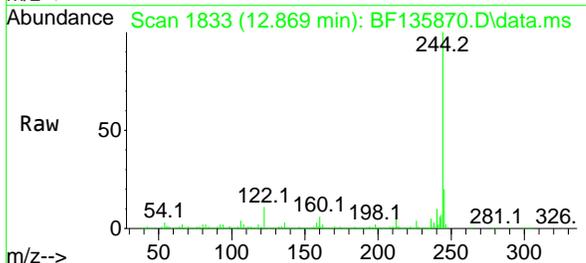
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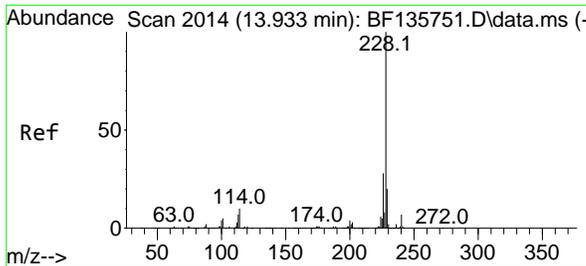
Reviewed By :Yogesh Patel 10/19/2023  
 Supervised By :mohammad ahmed 10/20/2023



#79  
 Terphenyl-d14  
 Concen: 63.219 ng  
 RT: 12.869 min Scan# 1833  
 Delta R.T. -0.012 min  
 Lab File: BF135870.D  
 Acq: 19 Oct 2023 02:59

Tgt Ion:244 Resp: 518808  
 Ion Ratio Lower Upper  
 244 100  
 212 6.6 5.6 8.4  
 122 10.6 9.0 13.6





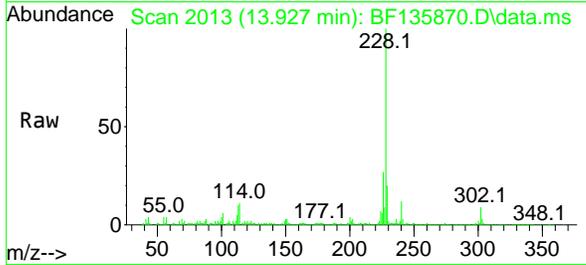
#81  
 Benzo(a)anthracene  
 Concen: 15.403 ng  
 RT: 13.927 min Scan# 2013  
 Delta R.T. -0.012 min  
 Lab File: BF135870.D  
 Acq: 19 Oct 2023 02:59

Instrument :

BNA\_F

Client SampleId :

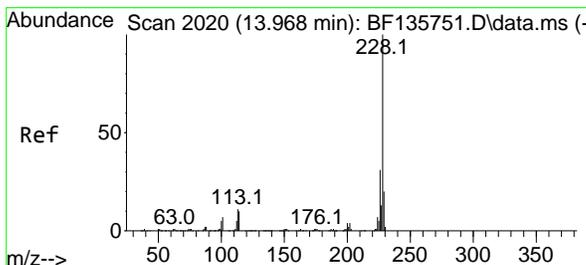
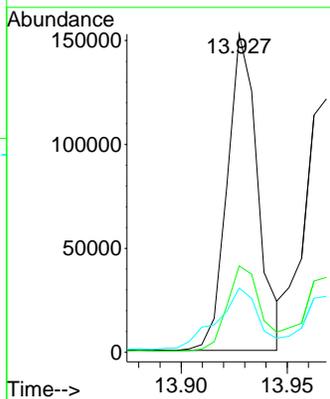
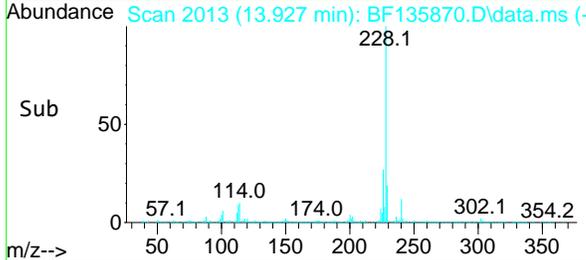
C-1(0-5)



Tgt Ion:228 Resp: 153768  
 Ion Ratio Lower Upper  
 228 100  
 226 27.1 22.2 33.2  
 229 20.2 16.1 24.1

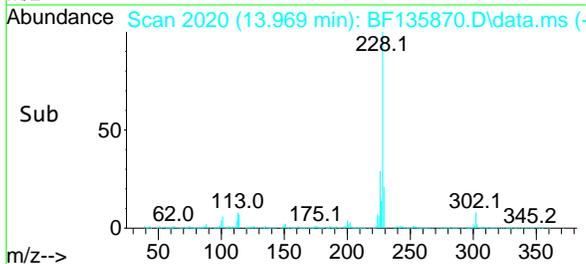
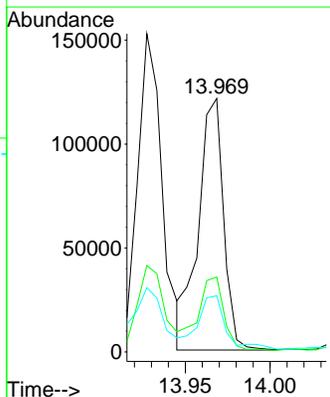
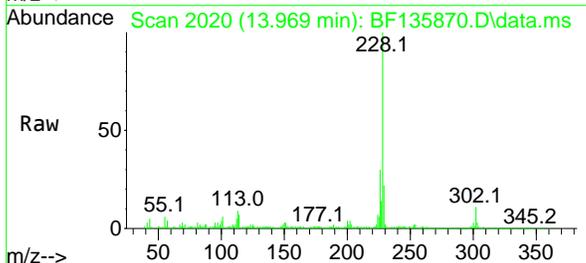
Manual Integrations  
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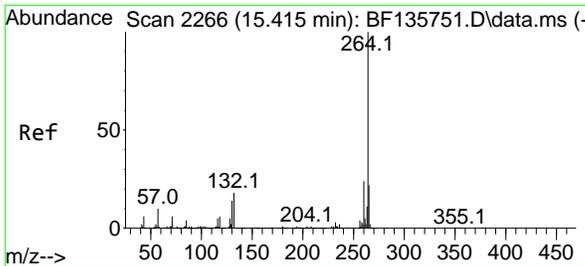
Reviewed By :Yogesh Patel 10/19/2023  
 Supervised By :mohammad ahmed 10/20/2023



#83  
 Chrysene  
 Concen: 12.978 ng  
 RT: 13.969 min Scan# 2020  
 Delta R.T. -0.006 min  
 Lab File: BF135870.D  
 Acq: 19 Oct 2023 02:59

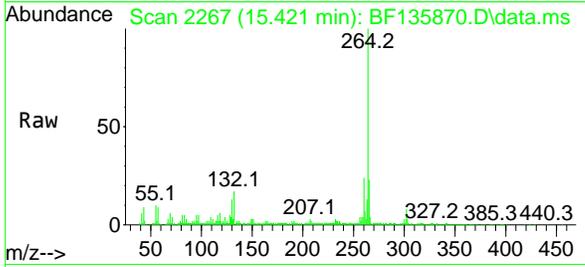
Tgt Ion:228 Resp: 125478  
 Ion Ratio Lower Upper  
 228 100  
 226 29.6 24.4 36.6  
 229 22.2 15.7 23.5





#86  
 Perylene-d12  
 Concen: 20.000 ng  
 RT: 15.421 min Scan# 21  
 Delta R.T. -0.000 min  
 Lab File: BF135870.D  
 Acq: 19 Oct 2023 02:59

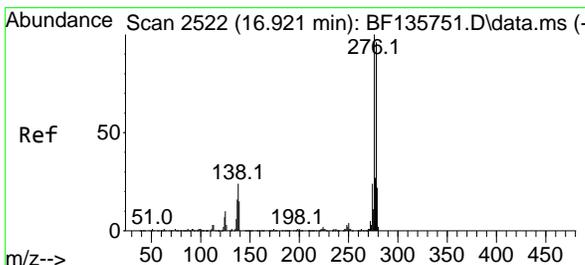
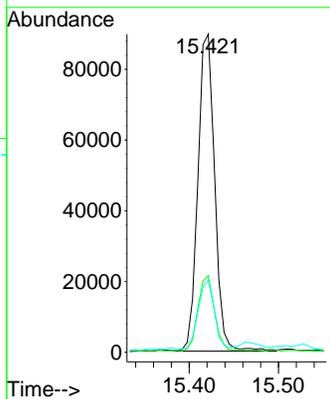
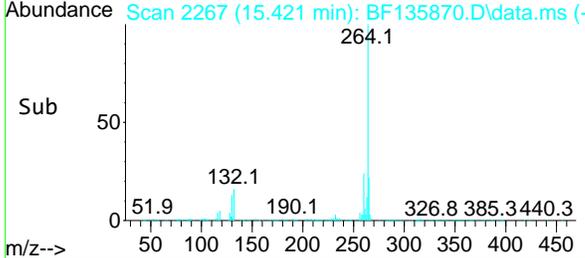
Instrument :  
 BNA\_F  
 ClientSampleId :  
 C-1(0-5)



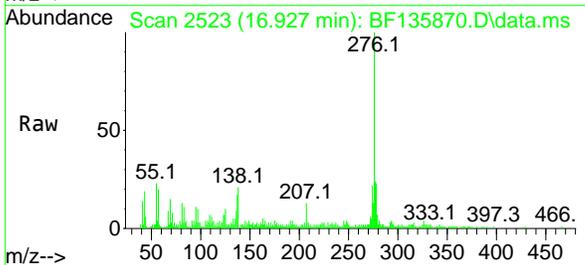
Tgt Ion:264 Resp: 117080  
 Ion Ratio Lower Upper  
 264 100  
 260 24.1 19.2 28.8  
 265 22.7 17.4 26.2

Manual Integrations  
 APPROVED

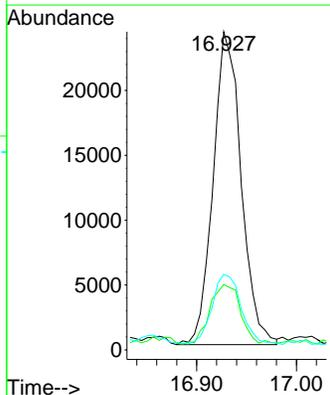
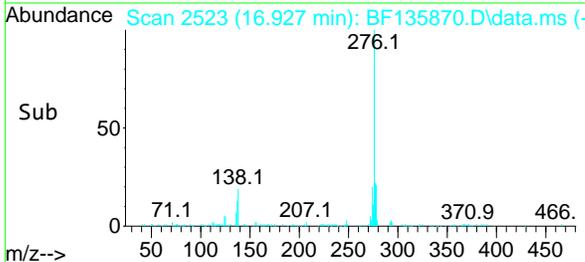
Reviewed By :Yogesh Patel 10/19/2023  
 Supervised By :mohammad ahmed 10/20/2023

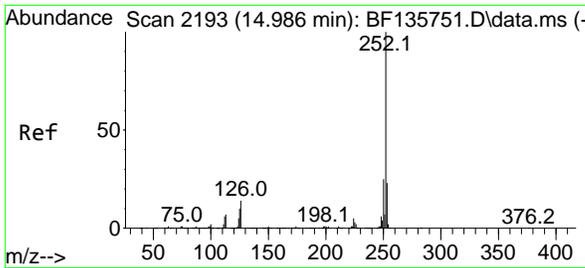


#87  
 Indeno(1,2,3-cd)pyrene  
 Concen: 7.389 ng  
 RT: 16.927 min Scan# 2523  
 Delta R.T. -0.006 min  
 Lab File: BF135870.D  
 Acq: 19 Oct 2023 02:59



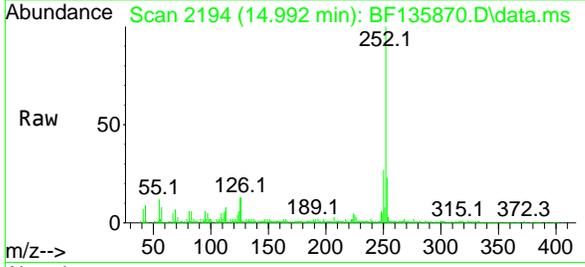
Tgt Ion:276 Resp: 47135  
 Ion Ratio Lower Upper  
 276 100  
 138 20.9 19.8 29.6  
 277 23.4 20.2 30.4





#88  
 Benzo(b)fluoranthene  
 Concen: 18.838 ng m  
 RT: 14.992 min Scan# 2194  
 Delta R.T. -0.000 min  
 Lab File: BF135870.D  
 Acq: 19 Oct 2023 02:59

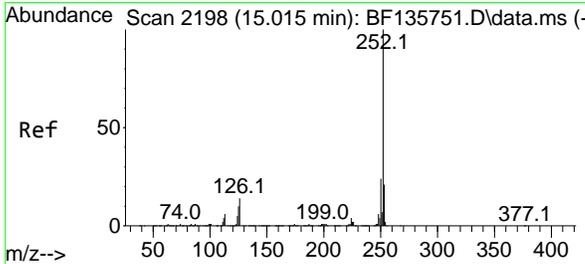
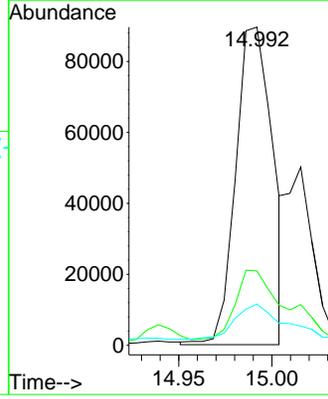
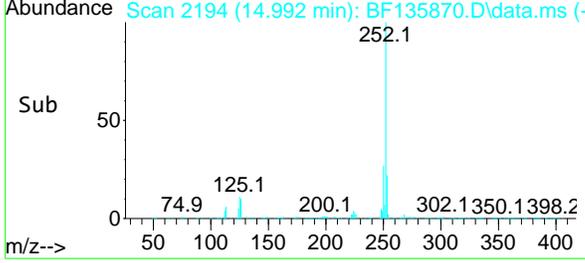
Instrument : BNA\_F  
 ClientSampleId : C-1(0-5)



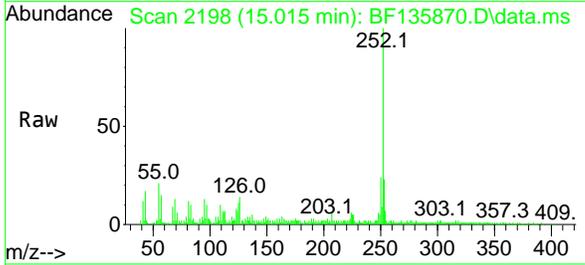
Tgt Ion:252 Resp: 12343  
 Ion Ratio Lower Upper  
 252 100  
 253 23.4 18.2 27.2  
 125 12.9 8.2 12.2

Manual Integrations  
 APPROVED

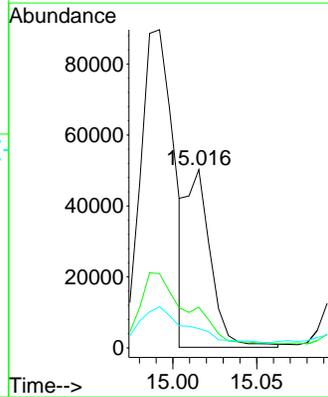
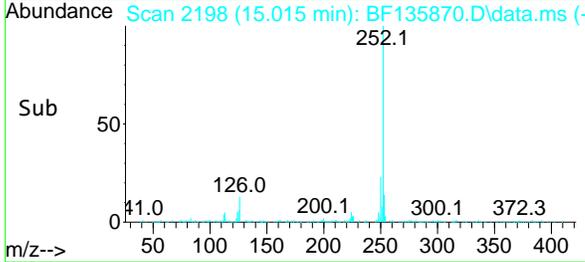
Reviewed By :Yogesh Patel 10/19/2023  
 Supervised By :mohammad ahmed 10/20/2023

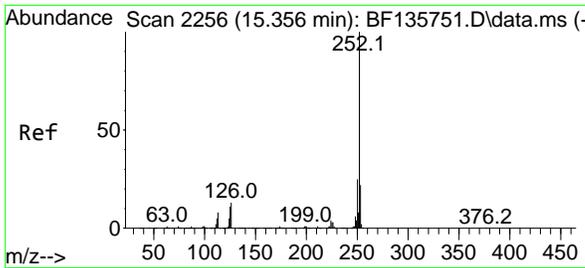


#89  
 Benzo(k)fluoranthene  
 Concen: 7.840 ng m  
 RT: 15.015 min Scan# 2198  
 Delta R.T. -0.006 min  
 Lab File: BF135870.D  
 Acq: 19 Oct 2023 02:59



Tgt Ion:252 Resp: 49876  
 Ion Ratio Lower Upper  
 252 100  
 253 22.8 17.4 26.0  
 125 10.8 8.3 12.5





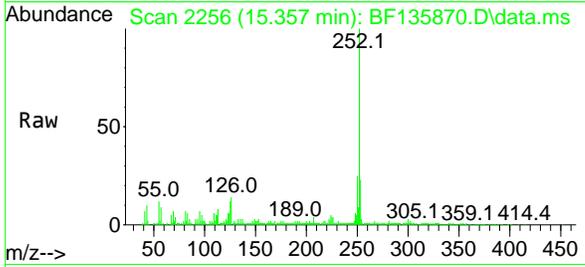
#90  
 Benzo(a)pyrene  
 Concen: 14.357 ng  
 RT: 15.357 min Scan# 21  
 Delta R.T. -0.006 min  
 Lab File: BF135870.D  
 Acq: 19 Oct 2023 02:59

Instrument :

BNA\_F

ClientSampleId :

C-1(0-5)



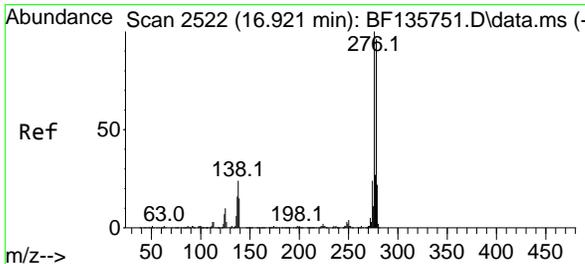
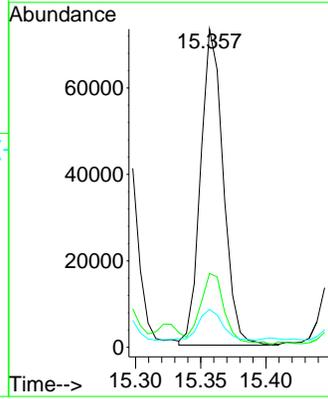
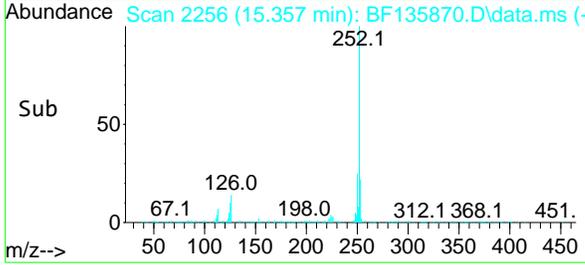
Tgt Ion:252 Resp: 8846  
 Ion Ratio Lower Upper  
 252 100  
 253 23.2 17.4 26.2  
 125 11.9 8.8 13.2

Manual Integrations

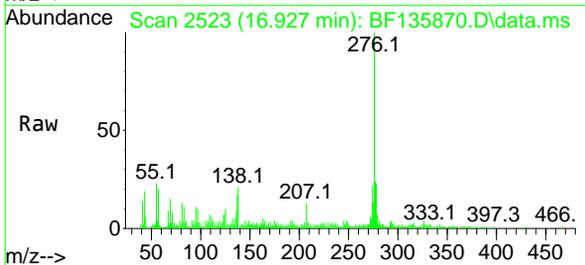
APPROVED

Reviewed By :Yogesh Patel 10/19/2023

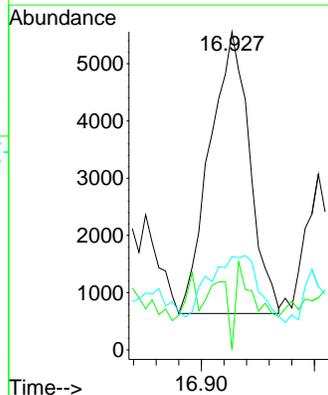
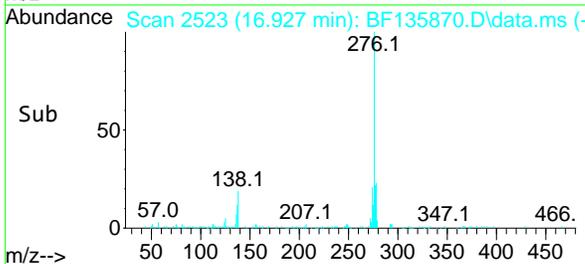
Supervised By :mohammad ahmed 10/20/2023

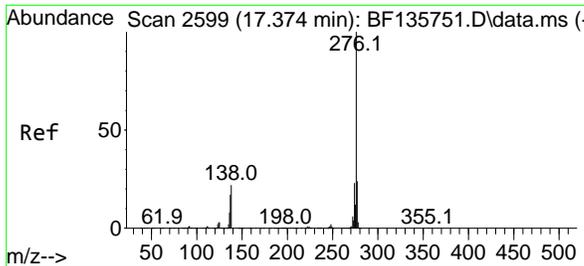


#91  
 Dibenzo(a,h)anthracene  
 Concen: 2.297 ng  
 RT: 16.927 min Scan# 2523  
 Delta R.T. -0.012 min  
 Lab File: BF135870.D  
 Acq: 19 Oct 2023 02:59



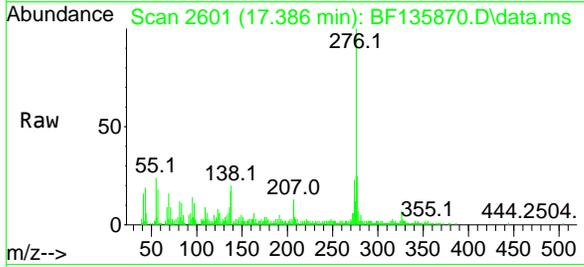
Tgt Ion:278 Resp: 12010  
 Ion Ratio Lower Upper  
 278 100  
 139 0.0 12.5 18.7#  
 279 29.3 18.6 27.8#





#92  
 Benzo(g,h,i)perylene  
 Concen: 8.725 ng  
 RT: 17.386 min Scan# 20  
 Delta R.T. -0.000 min  
 Lab File: BF135870.D  
 Acq: 19 Oct 2023 02:59

Instrument : BNA\_F  
 Client Sample Id : C-1(0-5)



Tgt Ion: 276 Resp: 4687

Ion	Ratio	Lower	Upper
276	100		
277	25.4	19.4	29.2
138	20.4	17.3	25.9

Manual Integrations  
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Reviewed By : Yogesh Patel 10/19/2023  
 Supervised By : mohammad ahmed 10/20/2023

