

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF031023\
 Data File : BF132750.D
 Acq On : 10 Mar 2023 19:47
 Operator : CG\JU
 Sample : 01846-02
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP-3

Quant Time: Mar 11 03:06:26 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022223.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Mar 09 16:26:19 2023
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Christian Giraldo 03/13/2023
 Supervised By : Jagrut Upadhyay 03/13/2023

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.981	152	211292	20.000	ng	0.00
21) Naphthalene-d8	8.263	136	799603	20.000	ng	0.00
39) Acenaphthene-d10	10.022	164	428555	20.000	ng	-0.01
64) Phenanthrene-d10	11.522	188	745953	20.000	ng	0.00
76) Chrysene-d12	14.180	240	386938	20.000	ng	0.00
86) Perylene-d12	15.727	264	468560	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.622	112	1685565	129.471	ng	0.01
7) Phenol-d6	6.616	99	2218377	130.564	ng	0.00
23) Nitrobenzene-d5	7.545	82	1503394	89.204	ng	-0.01
42) 2,4,6-Tribromophenol	10.822	330	576411	124.543	ng	0.00
45) 2-Fluorobiphenyl	9.339	172	2265190	80.483	ng	0.00
79) Terphenyl-d14	13.116	244	2156494	94.229	ng	0.00
Target Compounds						Qvalue
52) Acenaphthene	10.057	154	59685	2.296	ng	95
55) Dibenzofuran	10.228	168	75825	2.001	ng	97
58) Fluorene	10.575	166	84457	2.914	ng	98
71) Phenanthrene	11.545	178	1057118	27.355	ng	98
72) Anthracene	11.598	178	258643	6.499	ng	99
73) Carbazole	11.751	167	92248	2.571	ng	98
75) Fluoranthene	12.745	202	1381911	32.711	ng	98
78) Pyrene	12.975	202	1224664	34.812	ng	100
81) Benzo(a)anthracene	14.169	228	637833	22.031	ng	96
83) Chrysene	14.210	228	552488	20.407	ng	97
87) Indeno(1,2,3-cd)pyrene	17.310	276	266663	8.685	ng	98
88) Benzo(b)fluoranthene	15.263	252	763574m	24.317	ng	
89) Benzo(k)fluoranthene	15.292	252	204903m	6.668	ng	
90) Benzo(a)pyrene	15.657	252	526876	17.928	ng	97
91) Dibenzo(a,h)anthracene	17.321	278	83420	3.335	ng	95
92) Benzo(g,h,i)perylene	17.792	276	213661	8.918	ng	98

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

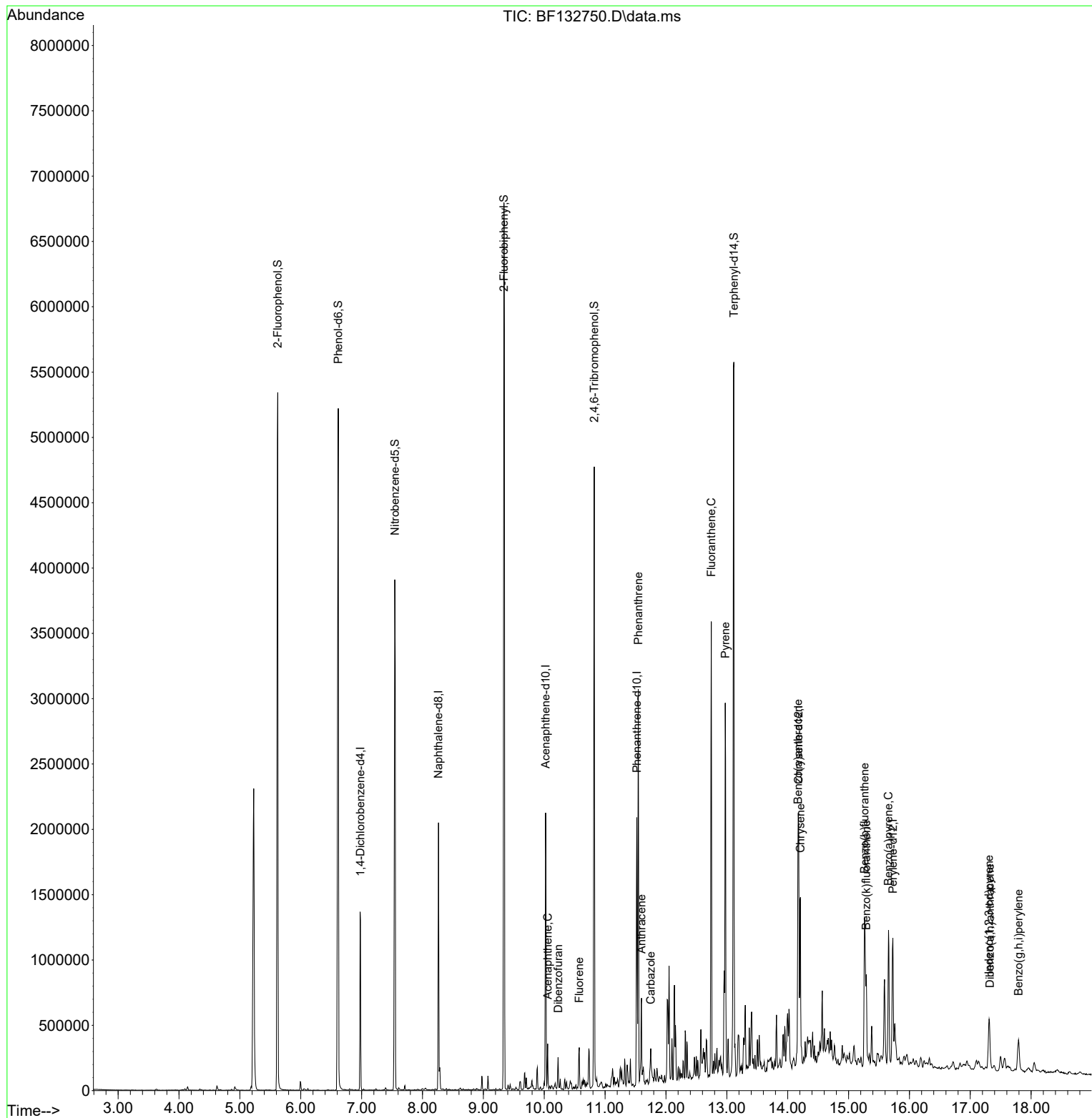
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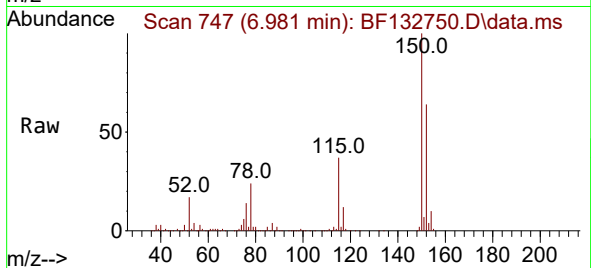
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#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.981 min Scan# 710
Delta R.T. -0.000 min
Lab File: BF132750.D
Acq: 10 Mar 2023 19:47

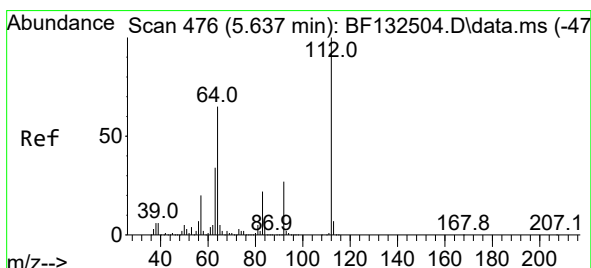
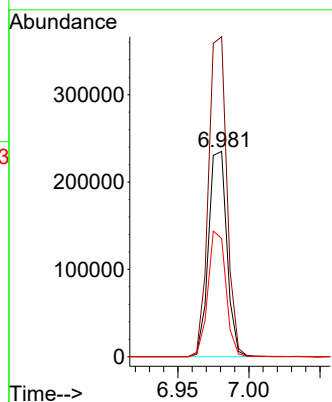
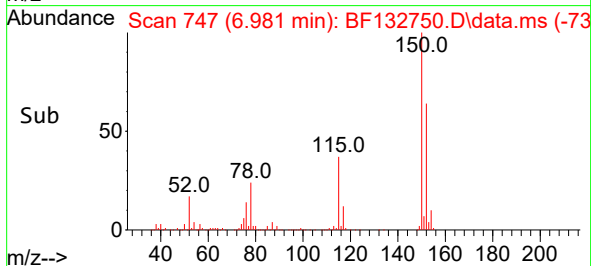
Instrument :
BNA_F
ClientSampleId :
TP-3



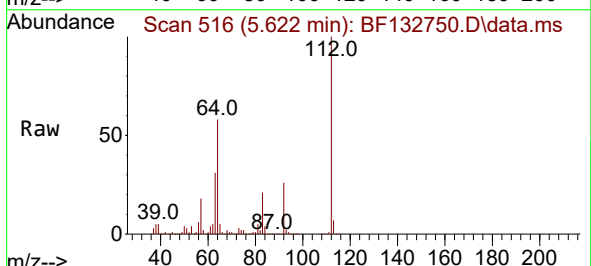
Tgt Ion:152 Resp: 211292
Ion Ratio Lower Upper
152 100
150 155.9 125.4 188.2
115 57.6 47.8 71.6

Manual Integrations
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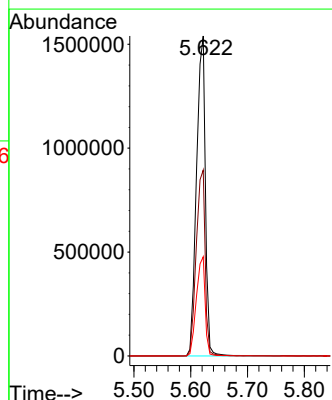
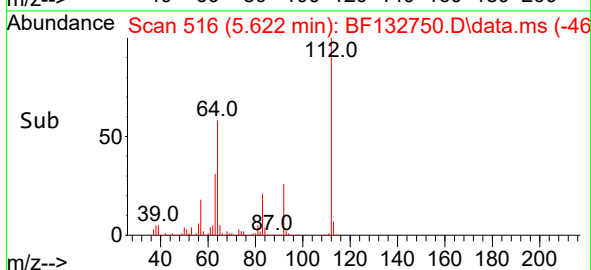
Reviewed By :Christian Giraldo 03/13/2023
Supervised By :Jagrut Upadhyay 03/13/2023

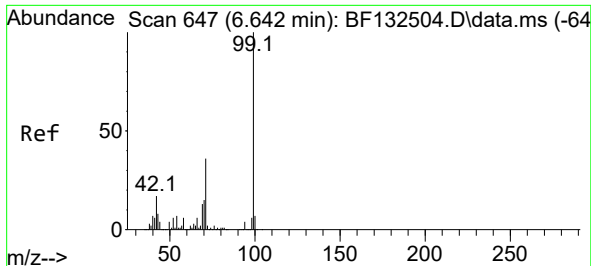


#5
2-Fluorophenol
Concen: 129.471 ng
RT: 5.622 min Scan# 516
Delta R.T. 0.012 min
Lab File: BF132750.D
Acq: 10 Mar 2023 19:47



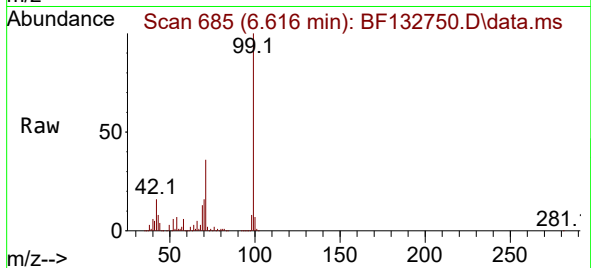
Tgt Ion:112 Resp: 1685565
Ion Ratio Lower Upper
112 100
64 58.1 51.6 77.4
63 31.0 27.4 41.2





#7
Phenol-d6
Concen: 130.564 ng
RT: 6.616 min Scan# 61
Delta R.T. -0.006 min
Lab File: BF132750.D
Acq: 10 Mar 2023 19:47

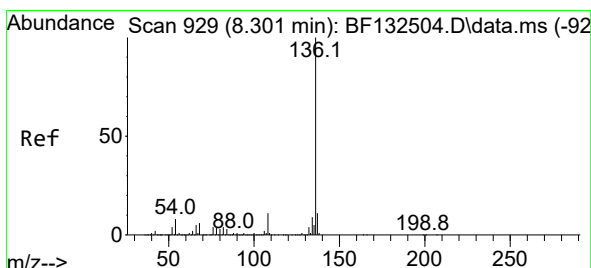
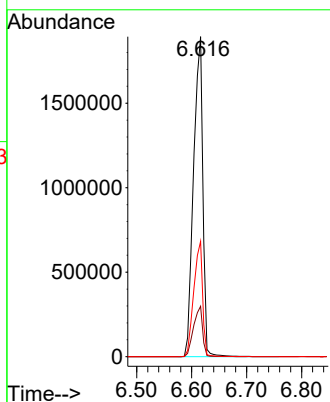
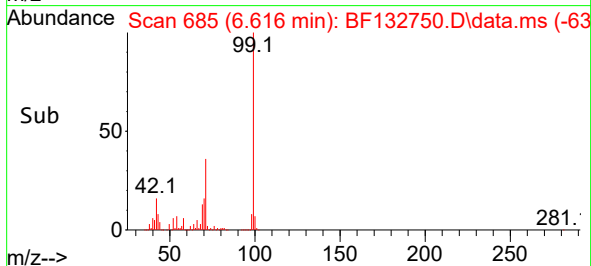
Instrument :
BNA_F
ClientSampleId :
TP-3



Tgt Ion: 99 Resp: 221837
Ion Ratio Lower Upper
99 100
42 15.8 13.9 20.9
71 36.0 28.5 42.7

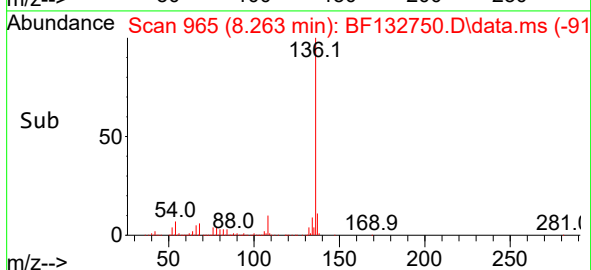
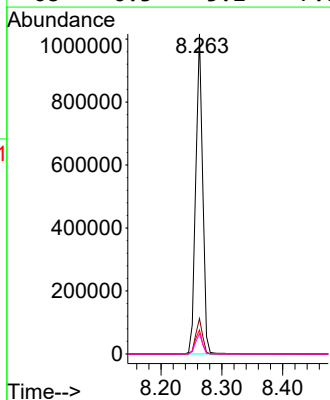
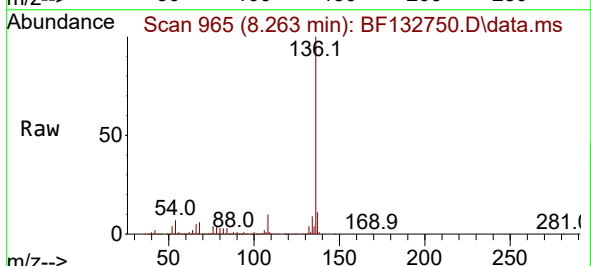
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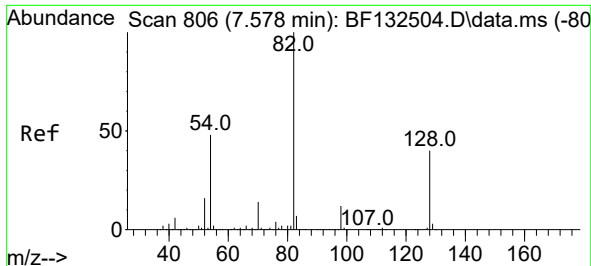
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Supervised By :Jagrut Upadhyay 03/13/2023



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.263 min Scan# 965
Delta R.T. -0.006 min
Lab File: BF132750.D
Acq: 10 Mar 2023 19:47

Tgt Ion:136 Resp: 799603
Ion Ratio Lower Upper
136 100
137 11.0 8.9 13.3
54 7.5 6.2 9.4
68 6.3 5.2 7.8





#23
Nitrobenzene-d5
Concen: 89.204 ng
RT: 7.545 min Scan# 84
Delta R.T. -0.012 min
Lab File: BF132750.D
Acq: 10 Mar 2023 19:47

Instrument :

BNA_F

ClientSampleId :

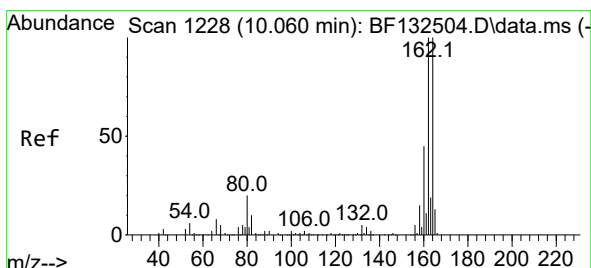
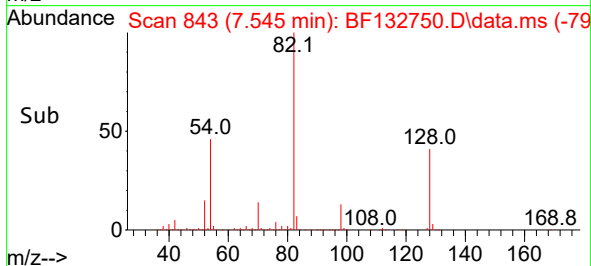
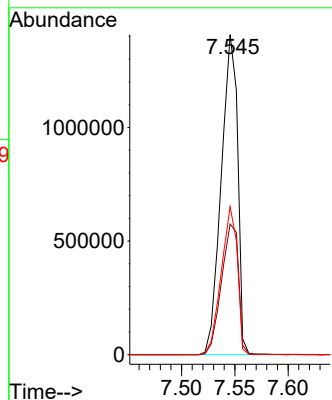
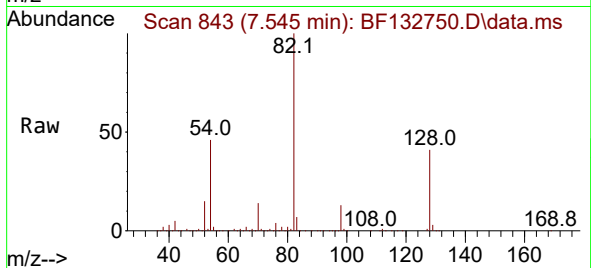
TP-3

Tgt Ion: 82 Resp: 1503394
Ion Ratio Lower Upper
82 100
128 40.8 32.2 48.2
54 46.3 38.4 57.6

Manual Integrations

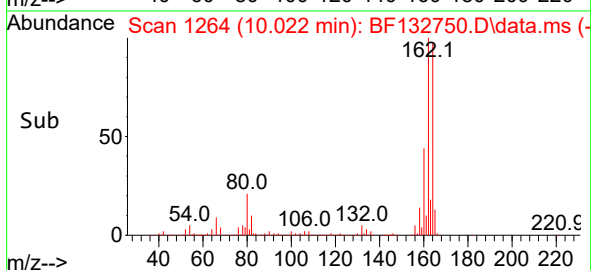
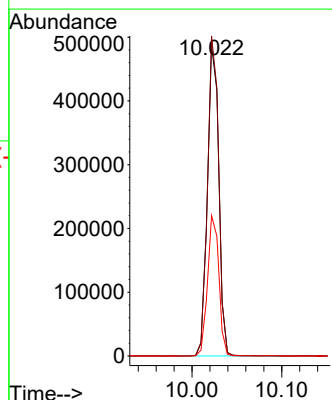
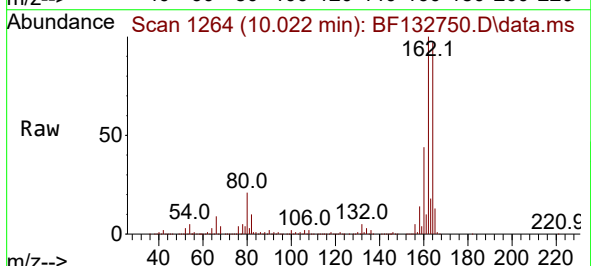
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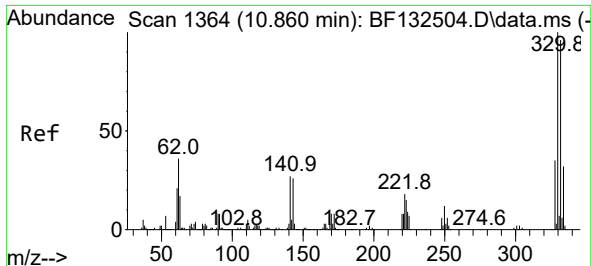
Reviewed By :Christian Giraldo 03/13/2023
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#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 10.022 min Scan# 1264
Delta R.T. -0.012 min
Lab File: BF132750.D
Acq: 10 Mar 2023 19:47

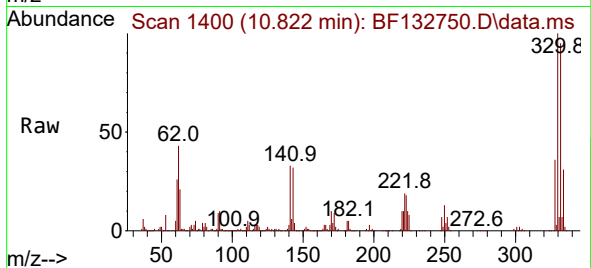
Tgt Ion:164 Resp: 428555
Ion Ratio Lower Upper
164 100
162 103.0 79.8 119.8
160 45.1 35.8 53.6





#42
2,4,6-Tribromophenol
Concen: 124.543 ng
RT: 10.822 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF132750.D
Acq: 10 Mar 2023 19:47

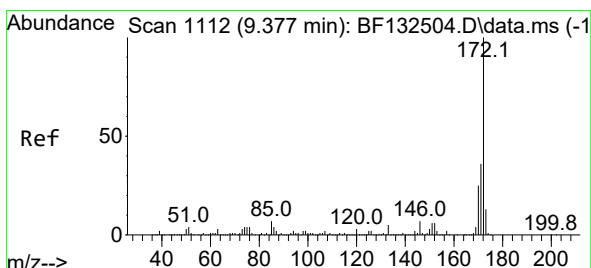
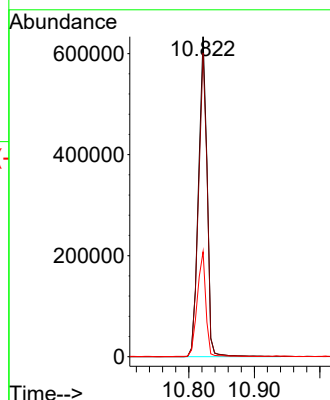
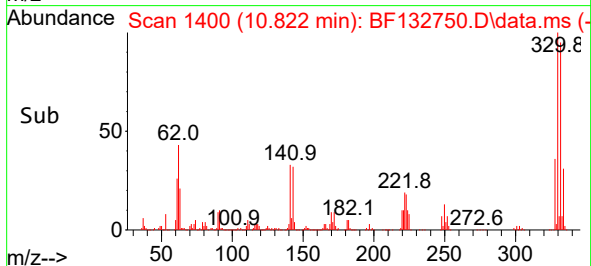
Instrument :
BNA_F
ClientSampleId :
TP-3



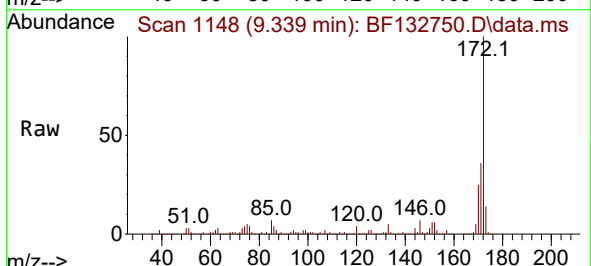
Tgt Ion: 330 Resp: 57641
Ion Ratio Lower Upper
330 100
332 95.9 76.2 114.4
141 33.3 28.4 42.6

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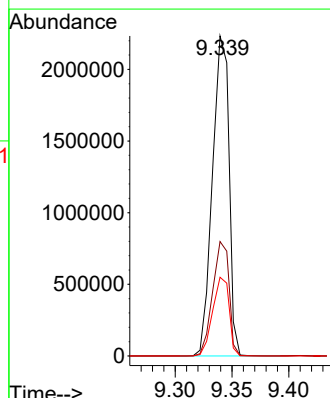
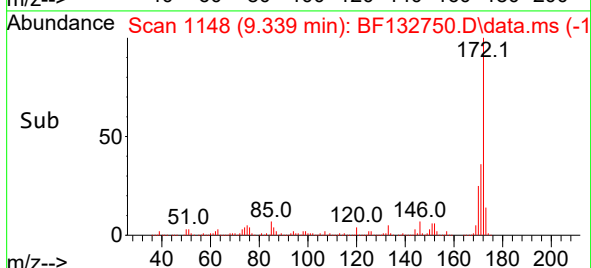
Reviewed By : Christian Giraldo 03/13/2023
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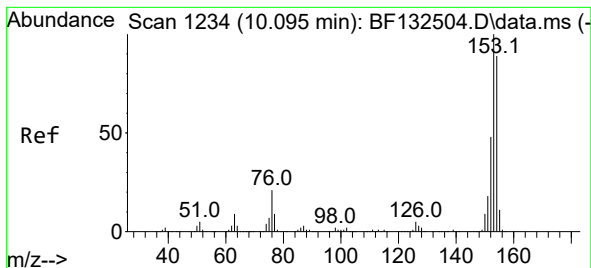


#45
2-Fluorobiphenyl
Concen: 80.483 ng
RT: 9.339 min Scan# 1148
Delta R.T. -0.006 min
Lab File: BF132750.D
Acq: 10 Mar 2023 19:47



Tgt Ion: 172 Resp: 2265190
Ion Ratio Lower Upper
172 100
171 35.8 28.8 43.2
170 24.6 19.7 29.5





#52

Acenaphthene

Concen: 2.296 ng

RT: 10.057 min Scan# 1270

Delta R.T. -0.012 min

Lab File: BF132750.D

Acq: 10 Mar 2023 19:47

Instrument :

BNA_F

ClientSampleId :

TP-3

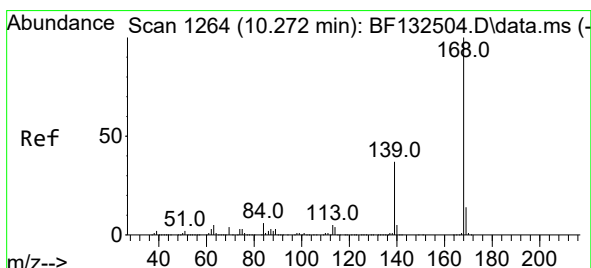
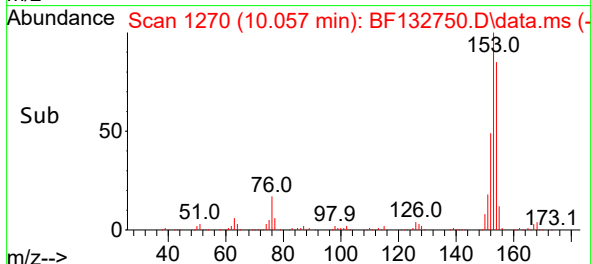
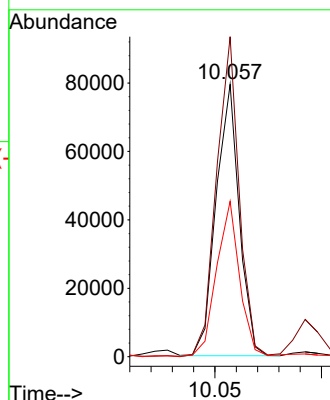
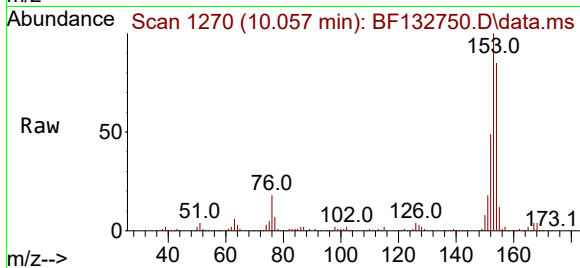
Tgt Ion:154	Resp:	5968
Ion Ratio	Lower	Upper
154	100	
153	117.5	89.8 134.8
152	57.0	43.3 64.9

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#55

Dibenzofuran

Concen: 2.001 ng

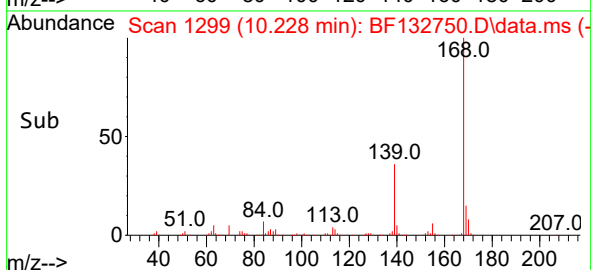
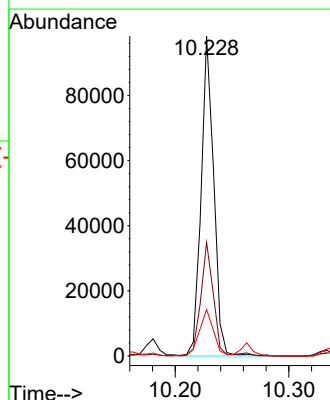
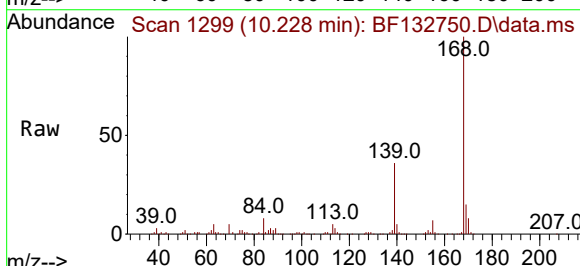
RT: 10.228 min Scan# 1299

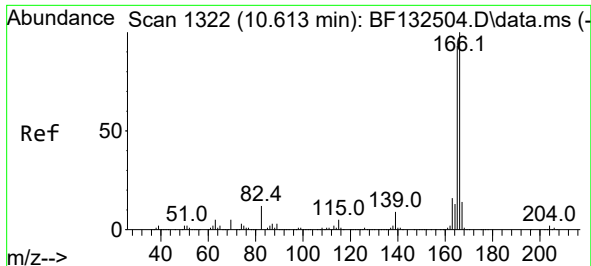
Delta R.T. -0.012 min

Lab File: BF132750.D

Acq: 10 Mar 2023 19:47

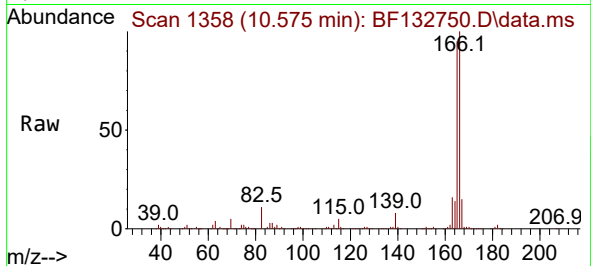
Tgt Ion:168	Resp:	75825
Ion Ratio	Lower	Upper
168	100	
139	35.5	29.8 44.6
169	14.6	10.9 16.3





#58
Fluorene
Concen: 2.914 ng
RT: 10.575 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF132750.D
Acq: 10 Mar 2023 19:47

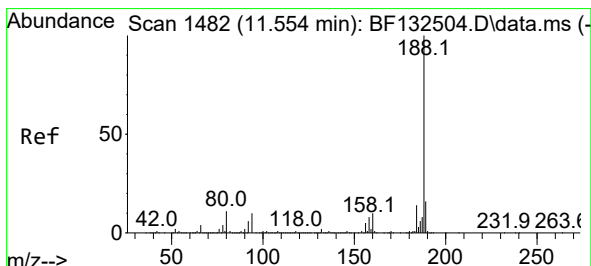
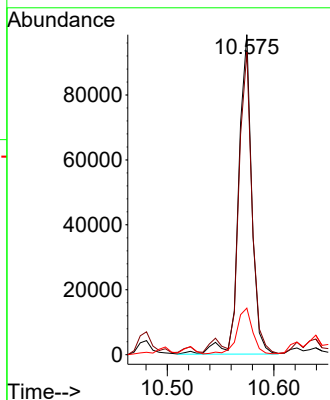
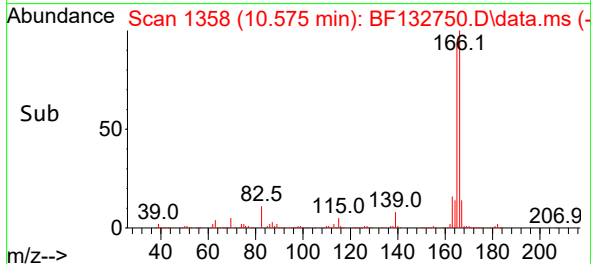
Instrument :
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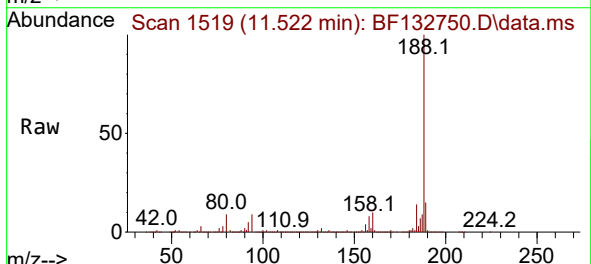
Tgt Ion:166 Resp: 8445
Ion Ratio Lower Upper
166 100
165 94.5 74.2 111.4
167 14.6 11.1 16.7

Manual Integrations
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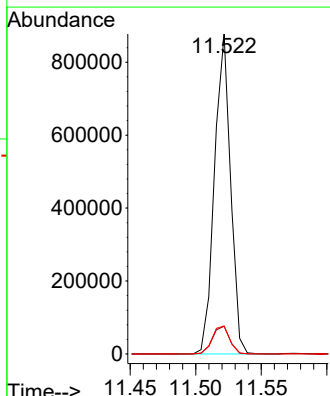
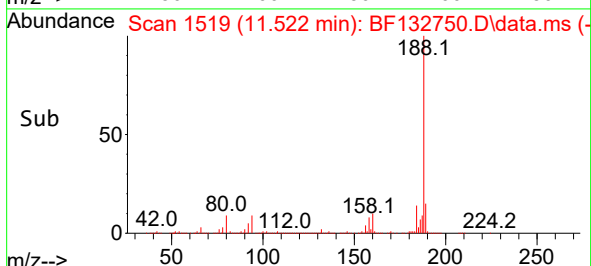
Reviewed By :Christian Giraldo 03/13/2023
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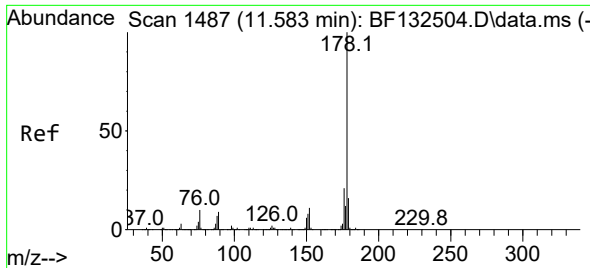


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.522 min Scan# 1519
Delta R.T. -0.006 min
Lab File: BF132750.D
Acq: 10 Mar 2023 19:47



Tgt Ion:188 Resp: 745953
Ion Ratio Lower Upper
188 100
94 8.7 8.3 12.5
80 8.7 8.7 13.1





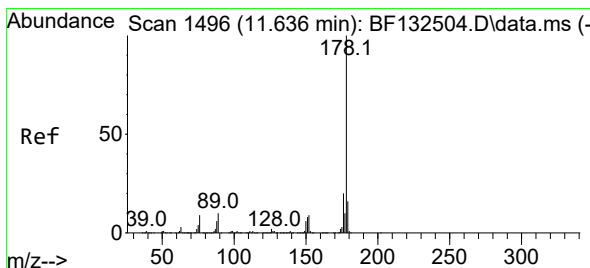
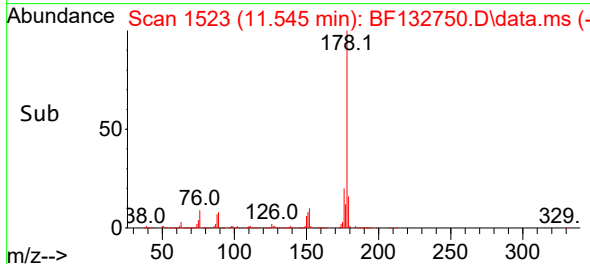
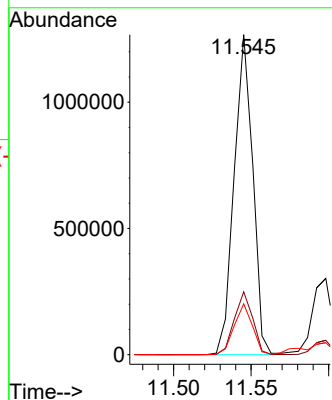
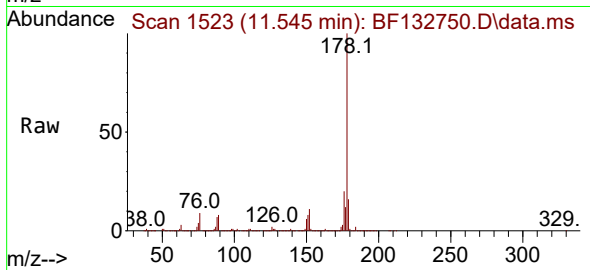
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Phenanthrene
Concen: 27.355 ng
RT: 11.545 min Scan# 1523
Delta R.T. -0.012 min
Lab File: BF132750.D
Acq: 10 Mar 2023 19:47

Instrument :
BNA_F
ClientSampleId :
TP-3

Tgt Ion:178 Resp: 1057118
Ion Ratio Lower Upper
178 100
176 19.6 16.5 24.7
179 15.9 13.0 19.6

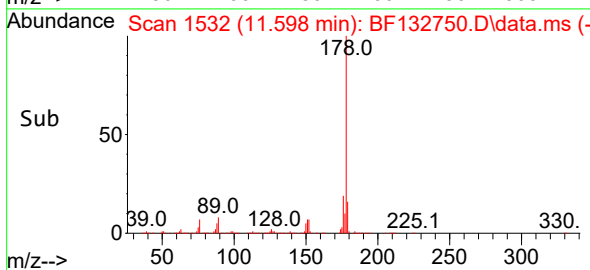
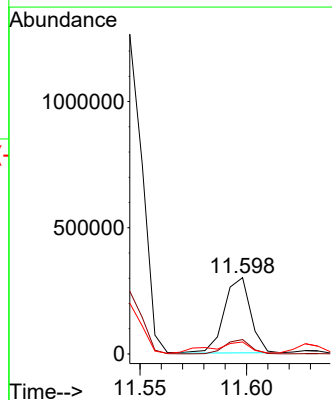
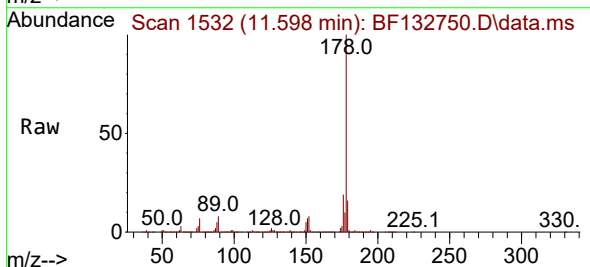
Manual Integrations
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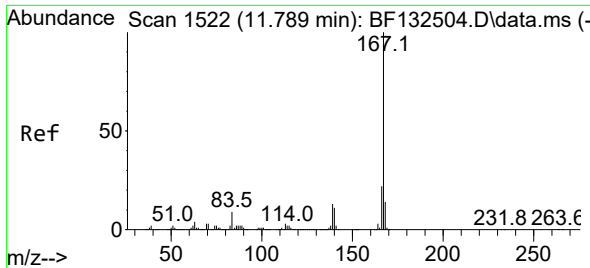
Reviewed By :Christian Giraldo 03/13/2023
Supervised By :Jagrut Upadhyay 03/13/2023



#72
Anthracene
Concen: 6.499 ng
RT: 11.598 min Scan# 1532
Delta R.T. -0.006 min
Lab File: BF132750.D
Acq: 10 Mar 2023 19:47

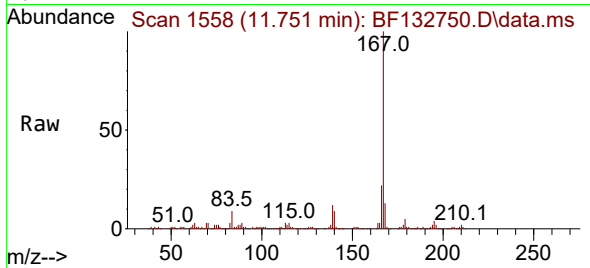
Tgt Ion:178 Resp: 258643
Ion Ratio Lower Upper
178 100
176 19.0 15.6 23.4
179 15.8 12.5 18.7





#73
 Carbazole
 Concen: 2.571 ng
 RT: 11.751 min Scan# 11
 Delta R.T. -0.012 min
 Lab File: BF132750.D
 Acq: 10 Mar 2023 19:47

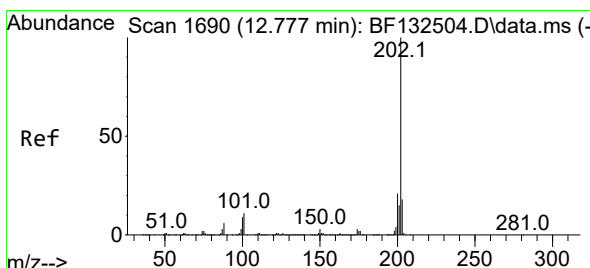
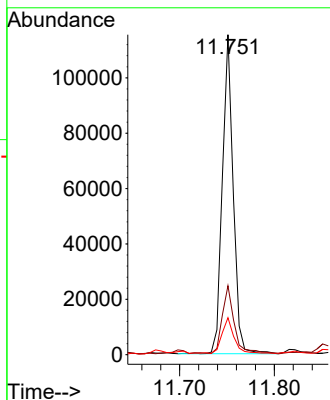
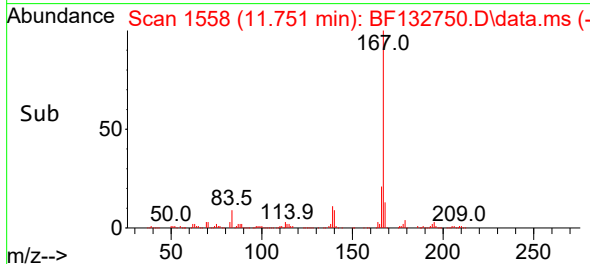
Instrument :
 BNA_F
 ClientSampleId :
 TP-3



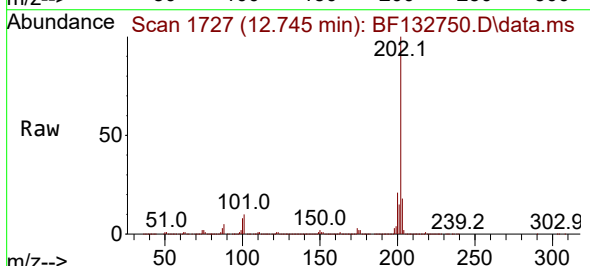
Tgt Ion:167 Resp: 92248
 Ion Ratio Lower Upper
 167 100
 166 21.5 17.7 26.5
 139 11.5 10.5 15.7

Manual Integrations
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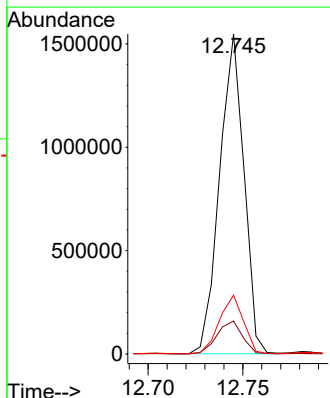
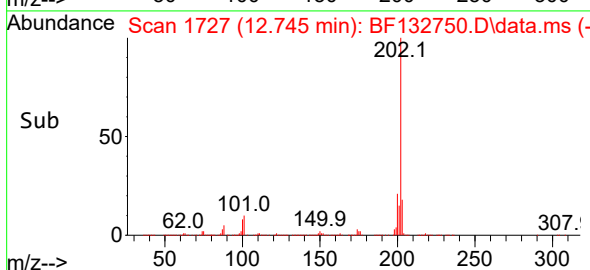
Reviewed By :Christian Giraldo 03/13/2023
 Supervised By :Jagrut Upadhyay 03/13/2023

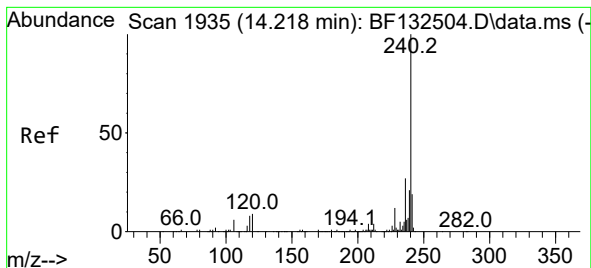


#75
 Fluoranthene
 Concen: 32.711 ng
 RT: 12.745 min Scan# 1727
 Delta R.T. -0.006 min
 Lab File: BF132750.D
 Acq: 10 Mar 2023 19:47



Tgt Ion:202 Resp: 1381911
 Ion Ratio Lower Upper
 202 100
 101 10.3 0.0 31.4
 203 18.4 0.0 38.0





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.180 min Scan# 1935

Delta R.T. -0.006 min

Lab File: BF132750.D

Acq: 10 Mar 2023 19:47

Instrument :

BNA_F

ClientSampleId :

TP-3

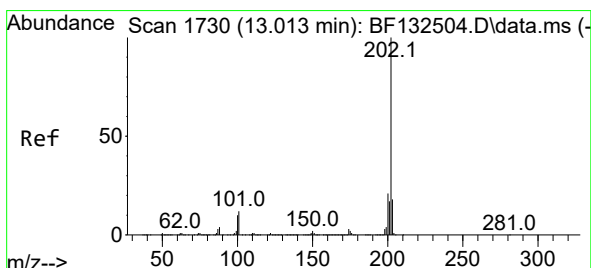
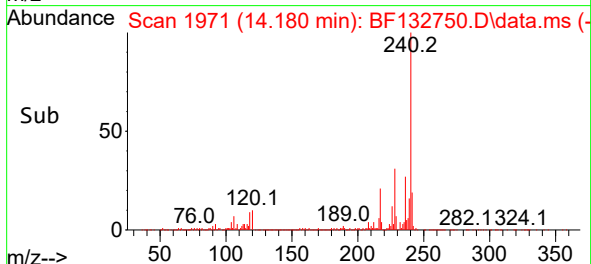
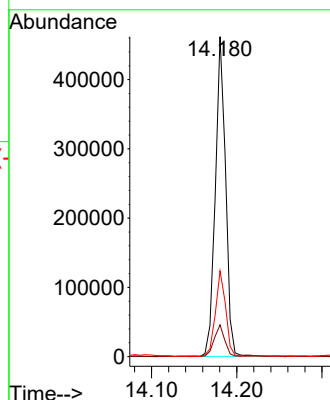
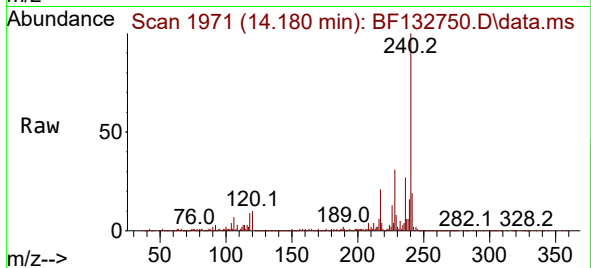
Tgt Ion:240 Resp: 386938
 Ion Ratio Lower Upper
 240 100
 120 9.9 7.2 10.8
 236 26.8 21.8 32.6

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 03/13/2023

Supervised By :Jagrut Upadhyay 03/13/2023



#78

Pyrene

Concen: 34.812 ng

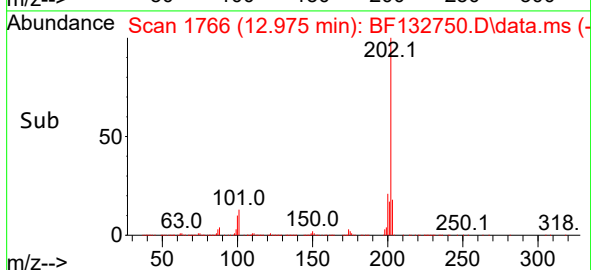
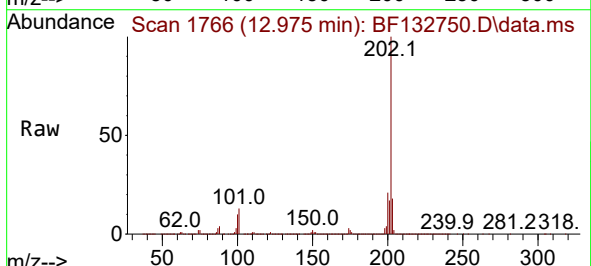
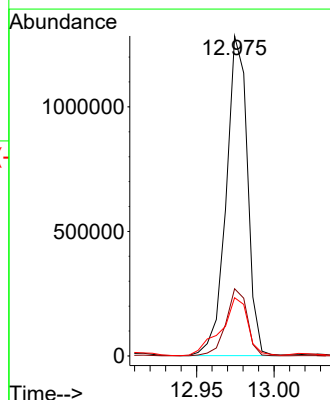
RT: 12.975 min Scan# 1766

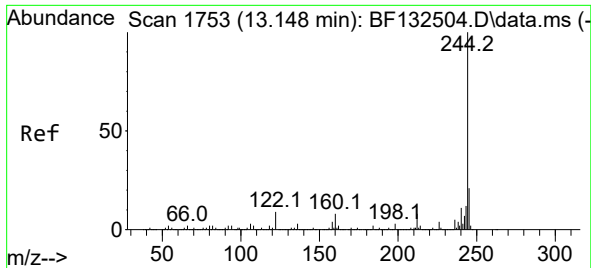
Delta R.T. -0.006 min

Lab File: BF132750.D

Acq: 10 Mar 2023 19:47

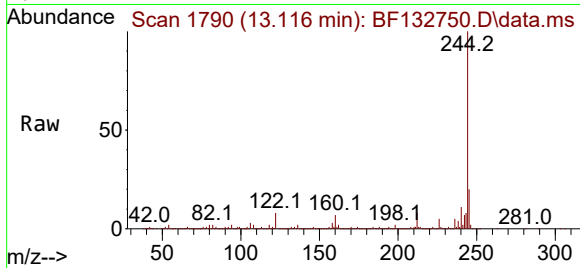
Tgt Ion:202 Resp: 1224664
 Ion Ratio Lower Upper
 202 100
 200 21.0 17.1 25.7
 203 18.2 14.6 21.8





#79
 Terphenyl-d14
 Concen: 94.229 ng
 RT: 13.116 min Scan# 11
 Delta R.T. 0.000 min
 Lab File: BF132750.D
 Acq: 10 Mar 2023 19:47

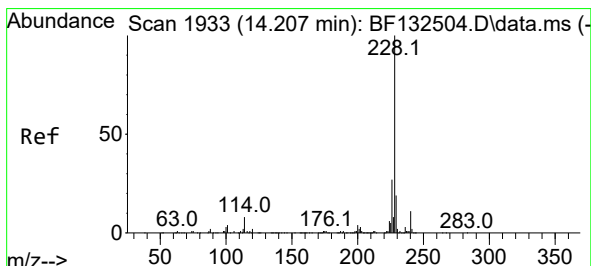
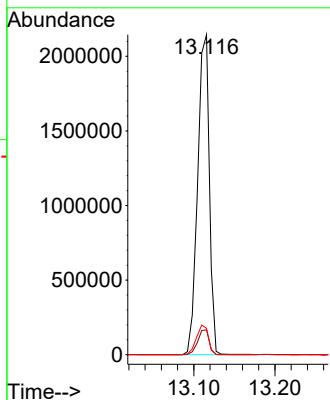
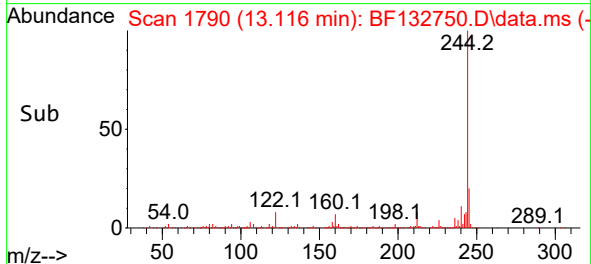
Instrument :
 BNA_F
 ClientSampleId :
 TP-3



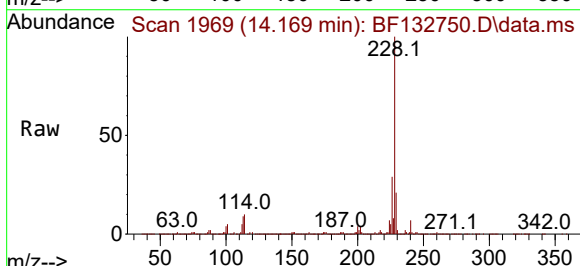
Tgt Ion:244 Resp: 2156494
 Ion Ratio Lower Upper
 244 100
 212 7.7 6.5 9.7
 122 8.2 7.5 11.3

Manual Integrations
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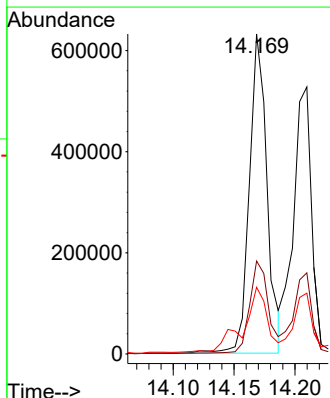
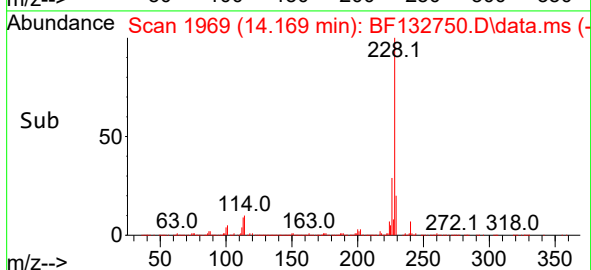
Reviewed By :Christian Giraldo 03/13/2023
 Supervised By :Jagrut Upadhyay 03/13/2023

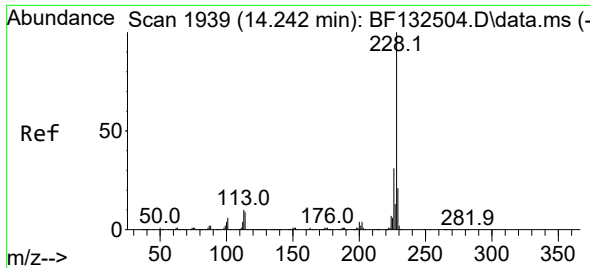


#81
 Benzo(a)anthracene
 Concen: 22.031 ng
 RT: 14.169 min Scan# 1969
 Delta R.T. -0.006 min
 Lab File: BF132750.D
 Acq: 10 Mar 2023 19:47



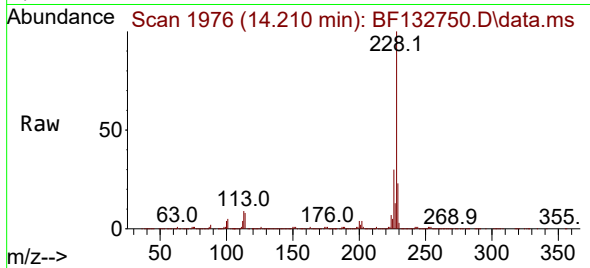
Tgt Ion:228 Resp: 637833
 Ion Ratio Lower Upper
 228 100
 226 29.0 21.7 32.5
 229 20.8 15.4 23.2





#83
Chrysene
Concen: 20.407 ng
RT: 14.210 min Scan# 1939
Delta R.T. -0.006 min
Lab File: BF132750.D
Acq: 10 Mar 2023 19:47

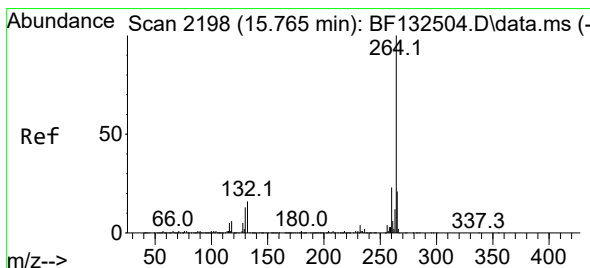
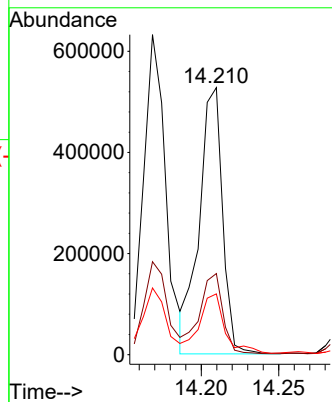
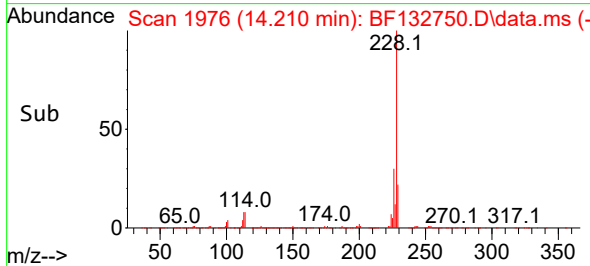
Instrument :
BNA_F
ClientSampleId :
TP-3



Tgt Ion:228 Resp: 552488
Ion Ratio Lower Upper
228 100
226 30.4 25.0 37.6
229 22.8 16.4 24.6

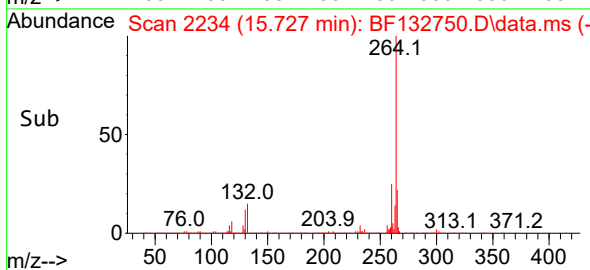
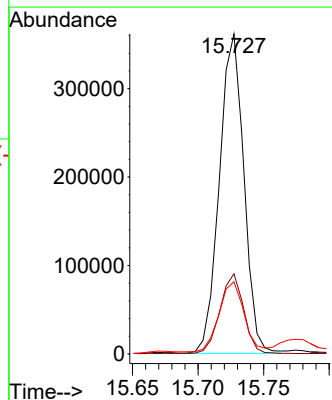
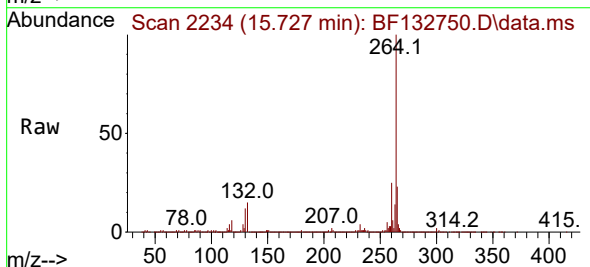
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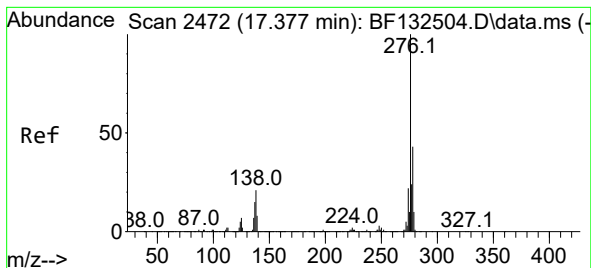
Reviewed By :Christian Giraldo 03/13/2023
Supervised By :Jagrut Upadhyay 03/13/2023



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.727 min Scan# 2234
Delta R.T. 0.000 min
Lab File: BF132750.D
Acq: 10 Mar 2023 19:47

Tgt Ion:264 Resp: 468560
Ion Ratio Lower Upper
264 100
260 25.1 18.8 28.2
265 22.5 17.1 25.7





#87

Indeno(1,2,3-cd)pyrene

Concen: 8.685 ng

RT: 17.310 min Scan# 2155

Delta R.T. -0.017 min

Lab File: BF132750.D

Acq: 10 Mar 2023 19:47

Instrument :

BNA_F

ClientSampleId :

TP-3

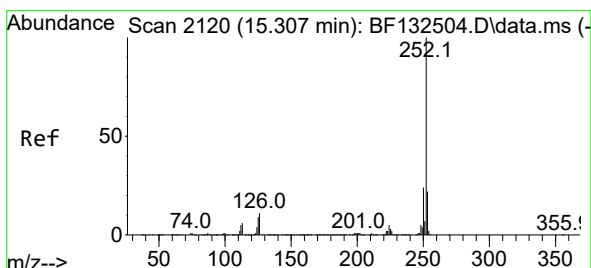
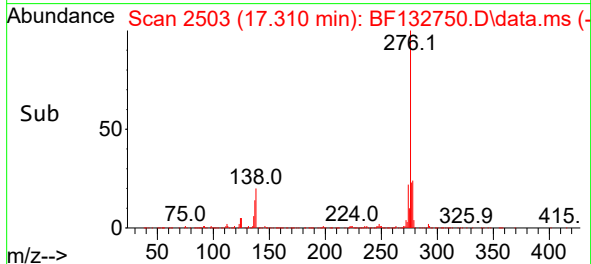
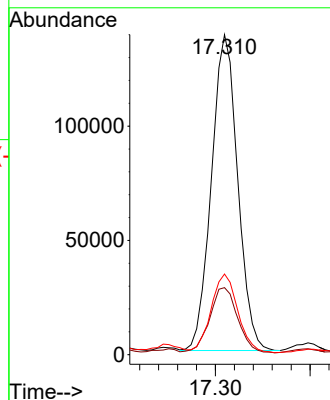
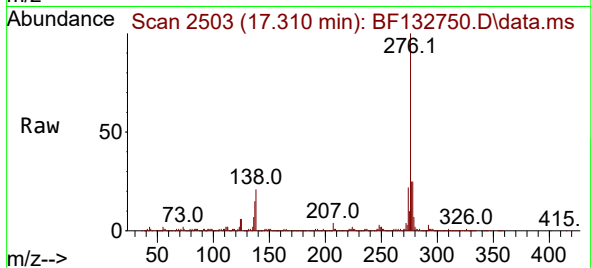
Tgt Ion:	276	Resp:	26666
Ion Ratio	Lower	Upper	
276	100		
138	21.9	19.0	28.4
277	25.4	20.0	30.0

Manual Integrations

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Reviewed By :Christian Giraldo 03/13/2023

Supervised By :Jagrut Upadhyay 03/13/2023



#88

Benzo(b)fluoranthene

Concen: 24.317 ng m

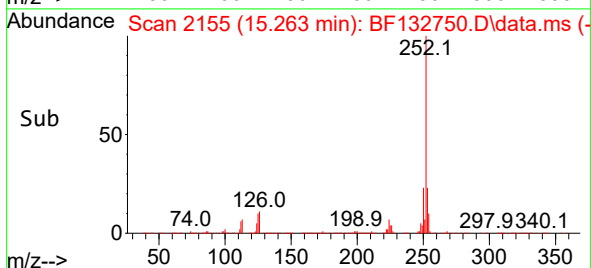
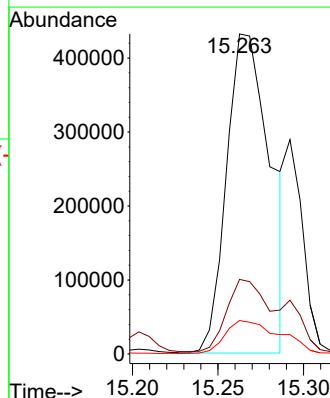
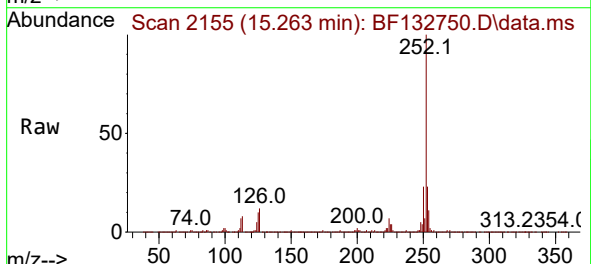
RT: 15.263 min Scan# 2155

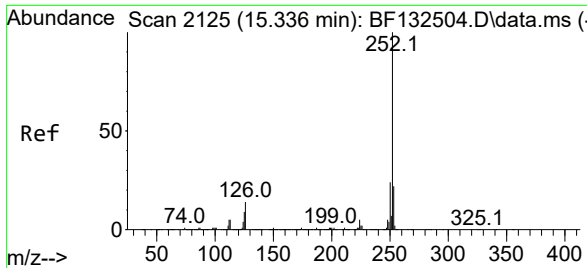
Delta R.T. -0.006 min

Lab File: BF132750.D

Acq: 10 Mar 2023 19:47

Tgt Ion:	252	Resp:	763574
Ion Ratio	Lower	Upper	
252	100		
253	23.3	17.4	26.0
125	10.4	7.0	10.6





#89

Benzo(k)fluoranthene

Concen: 6.668 ng m

RT: 15.292 min Scan# 2125

Delta R.T. -0.012 min

Lab File: BF132750.D

Acq: 10 Mar 2023 19:47

Instrument :

BNA_F

ClientSampleId :

TP-3

Tgt Ion:252 Resp: 20490

Ion Ratio Lower Upper

252 100

253 25.1 17.5 26.3

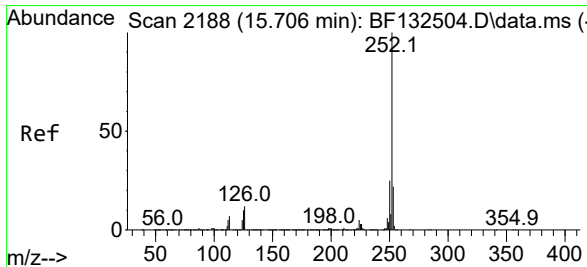
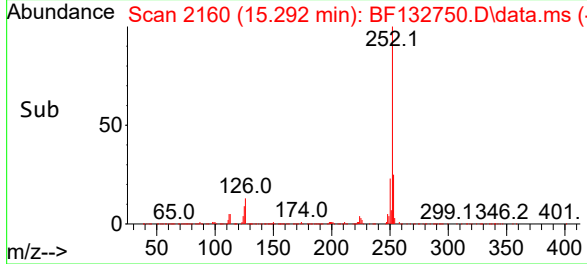
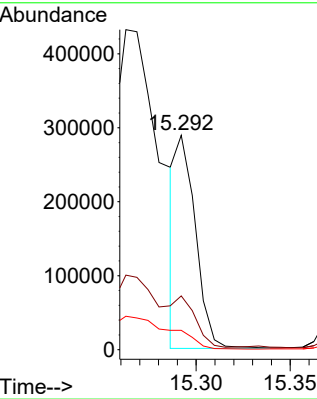
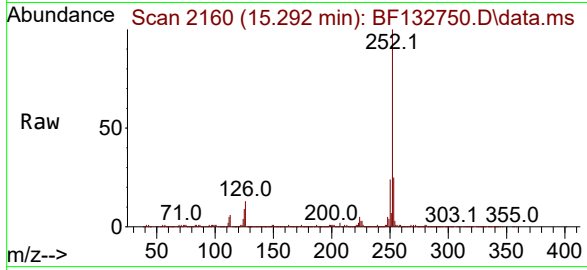
125 9.1 7.2 10.8

Manual Integrations

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Reviewed By :Christian Giraldo 03/13/2023

Supervised By :Jagrut Upadhyay 03/13/2023



#90

Benzo(a)pyrene

Concen: 17.928 ng

RT: 15.657 min Scan# 2222

Delta R.T. -0.006 min

Lab File: BF132750.D

Acq: 10 Mar 2023 19:47

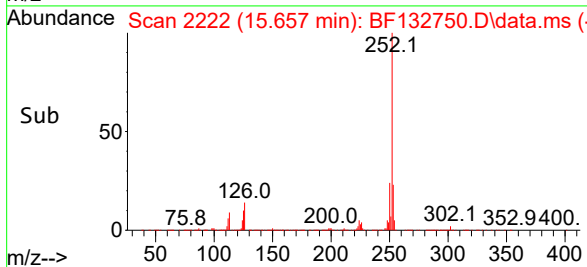
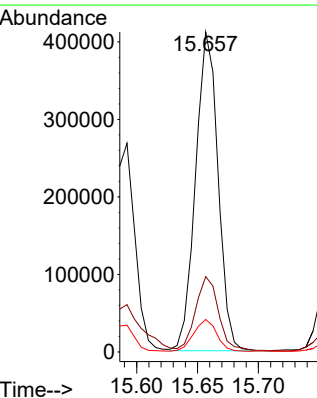
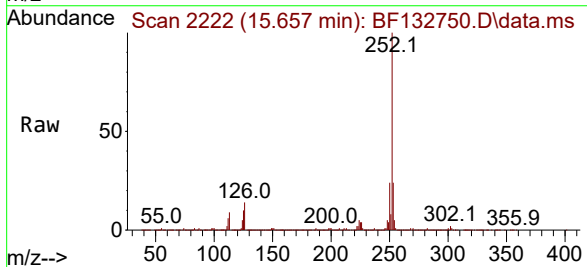
Tgt Ion:252 Resp: 526876

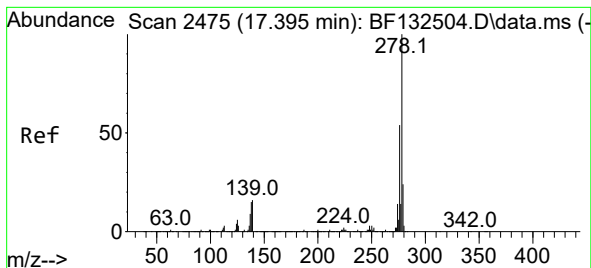
Ion Ratio Lower Upper

252 100

253 23.5 17.2 25.8

125 10.1 8.0 12.0





#91

Dibenzo(a,h)anthracene

Concen: 3.335 ng

RT: 17.321 min Scan# 21

Delta R.T. -0.023 min

Lab File: BF132750.D

Acq: 10 Mar 2023 19:47

Instrument :

BNA_F

ClientSampleId :

TP-3

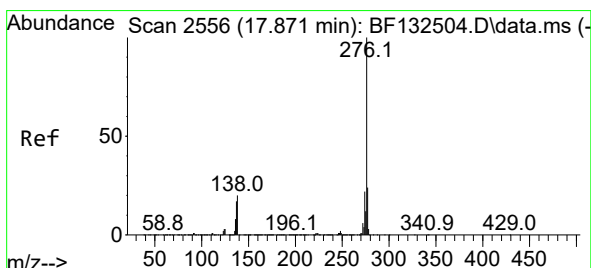
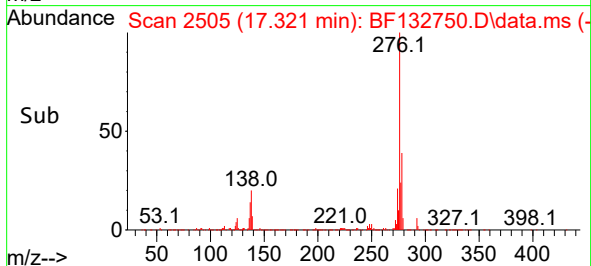
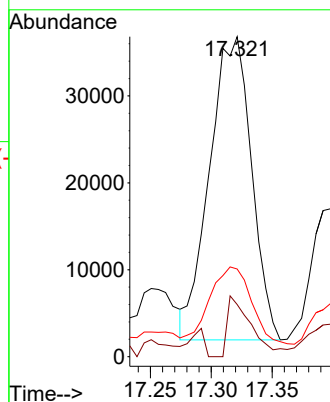
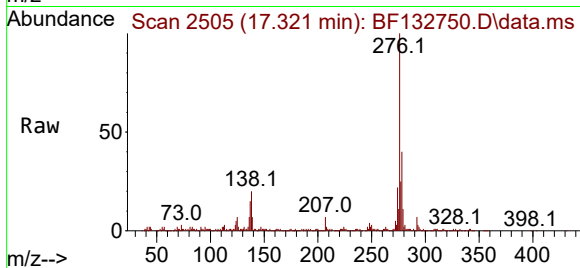
Tgt Ion:	278	Resp:	83420
Ion Ratio	Lower	Upper	
278	100		
139	16.3	13.0	19.4
279	27.4	19.0	28.4

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 03/13/2023

Supervised By :Jagrut Upadhyay 03/13/2023



#92

Benzo(g,h,i)perylene

Concen: 8.918 ng

RT: 17.792 min Scan# 2585

Delta R.T. -0.023 min

Lab File: BF132750.D

Acq: 10 Mar 2023 19:47

Tgt Ion:	276	Resp:	213661
Ion Ratio	Lower	Upper	
276	100		
277	23.2	18.9	28.3
138	21.4	16.2	24.4

