

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF041923\
 Data File : BF132925.D
 Acq On : 19 Apr 2023 22:14
 Operator : CG\JU
 Sample : 02389-11
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SPB-3WC-23-04-17

Quant Time: Apr 20 01:51:31 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF041723.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Apr 18 04:51:21 2023
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Christian Giraldo 04/20/2023
 Supervised By : Jagrut Upadhyay 04/24/2023

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.763	152	293730	20.000	ng	0.00
21) Naphthalene-d8	8.045	136	1221294	20.000	ng	0.00
39) Acenaphthene-d10	9.798	164	650343	20.000	ng	0.00
64) Phenanthrene-d10	11.280	188	1158904	20.000	ng	0.00
76) Chrysene-d12	13.921	240	668035	20.000	ng	0.00
86) Perylene-d12	15.351	264	690618	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.369	112	1873146	99.717	ng	0.00
7) Phenol-d6	6.392	99	2406491	100.396	ng	0.00
23) Nitrobenzene-d5	7.328	82	1476865	63.033	ng	0.00
42) 2,4,6-Tribromophenol	10.586	330	678668	104.043	ng	0.00
45) 2-Fluorobiphenyl	9.128	172	2524452	59.632	ng	0.00
79) Terphenyl-d14	12.874	244	2854149	72.891	ng	0.00
Target Compounds						Qvalue
52) Acenaphthene	9.828	154	125313	3.196	ng	99
58) Fluorene	10.345	166	111667	2.740	ng	97
71) Phenanthrene	11.310	178	1963712	31.502	ng	100
72) Anthracene	11.357	178	533180	8.355	ng	98
73) Carbazole	11.504	167	192900	3.494	ng	99
75) Fluoranthene	12.498	202	2900758	46.794	ng	99
78) Pyrene	12.721	202	2389807	43.750	ng	99
81) Benzo(a)anthracene	13.910	228	1108617	24.402	ng	99
83) Chrysene	13.945	228	1011142m	22.392	ng	
84) Bis(2-ethylhexyl)phtha...	13.910	149	45843	2.653	ng	# 95
87) Indeno(1,2,3-cd)pyrene	16.739	276	408868	10.361	ng	94
88) Benzo(b)fluoranthene	14.939	252	1092414m	25.394	ng	
89) Benzo(k)fluoranthene	14.963	252	379433m	8.854	ng	
90) Benzo(a)pyrene	15.286	252	719235	18.300	ng	97
91) Dibenzo(a,h)anthracene	16.751	278	113663m	3.380	ng	
92) Benzo(g,h,i)perylene	17.156	276	321718	9.993	ng	97

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

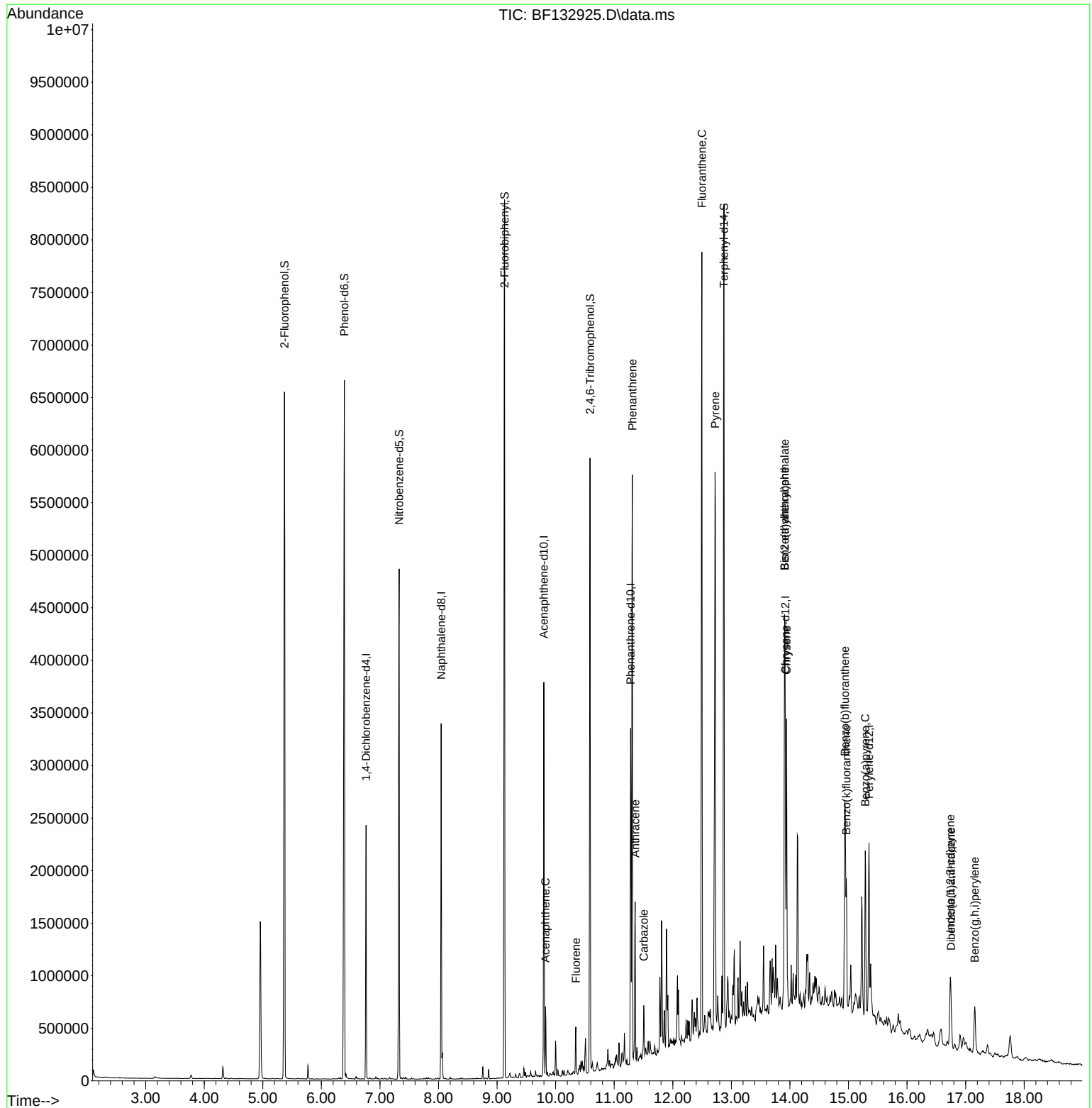
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Data File : BF132925.D
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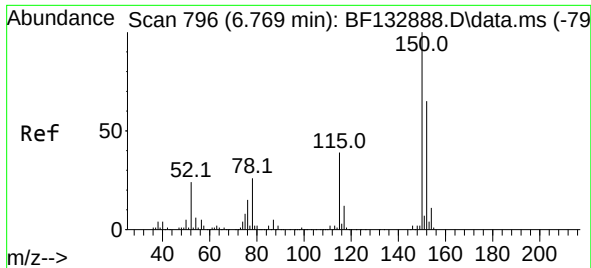
Instrument :
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Quant Time: Apr 20 01:51:31 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF041723.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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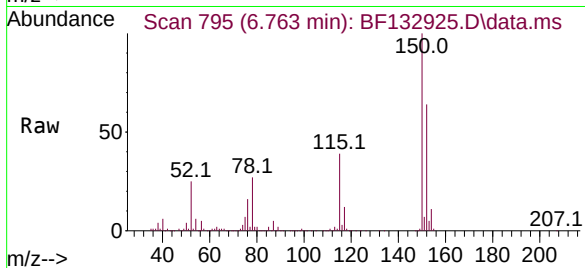
Reviewed By : Christian Giraldo 04/20/2023
Supervised By : Jagrut Upadhyay 04/24/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.763 min Scan# 796
Delta R.T. -0.006 min
Lab File: BF132925.D
Acq: 19 Apr 2023 22:14

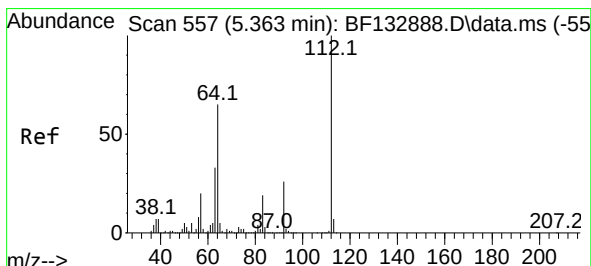
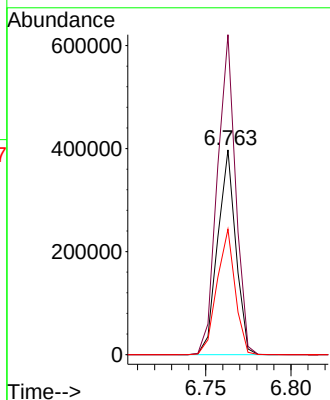
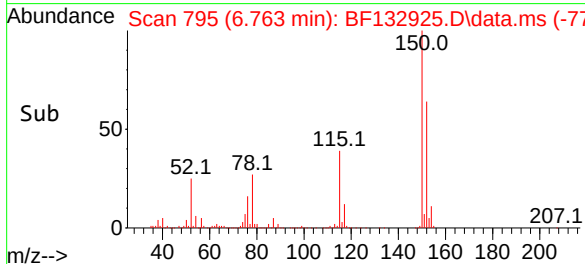
Instrument :
BNA_F
ClientSampleId :
SPB-3WC-23-04-17



Tgt Ion:152 Resp: 293730
Ion Ratio Lower Upper
152 100
150 156.3 122.8 184.2
115 61.2 47.3 70.9

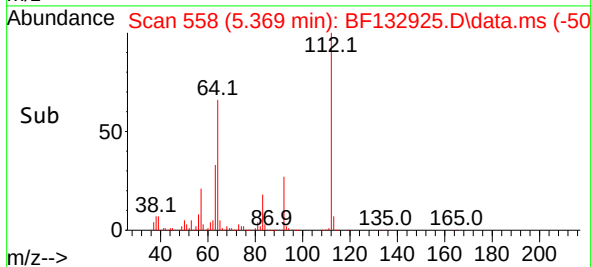
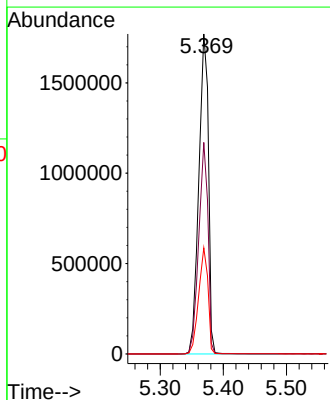
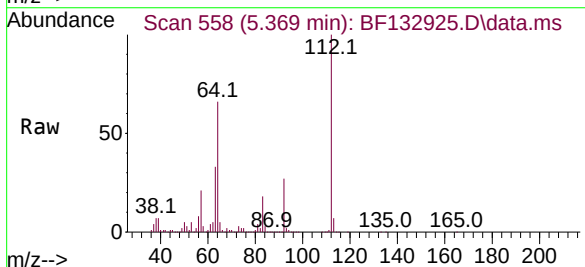
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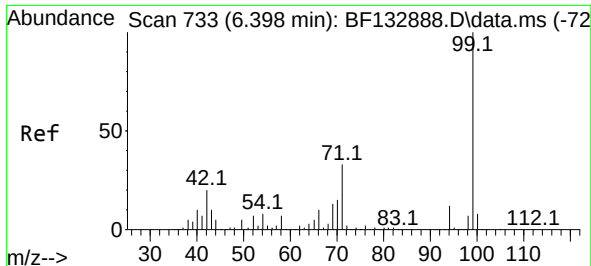
Reviewed By :Christian Giraldo 04/20/2023
Supervised By :Jagrut Upadhyay 04/24/2023



#5
2-Fluorophenol
Concen: 99.717 ng
RT: 5.369 min Scan# 558
Delta R.T. 0.006 min
Lab File: BF132925.D
Acq: 19 Apr 2023 22:14

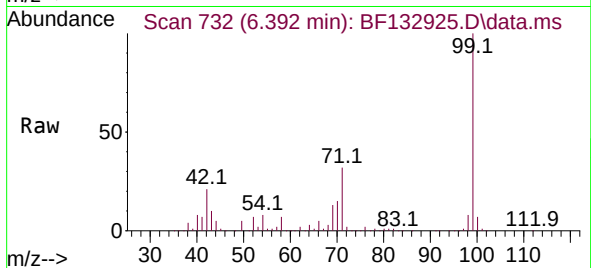
Tgt Ion:112 Resp: 1873146
Ion Ratio Lower Upper
112 100
64 66.1 51.8 77.8
63 33.1 26.3 39.5





#7
Phenol-d6
Concen: 100.396 ng
RT: 6.392 min Scan# 731
Delta R.T. -0.006 min
Lab File: BF132925.D
Acq: 19 Apr 2023 22:14

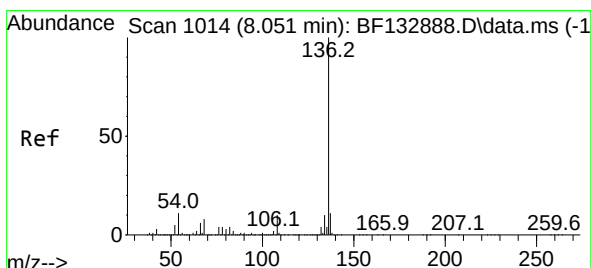
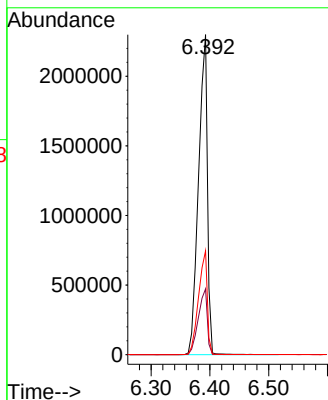
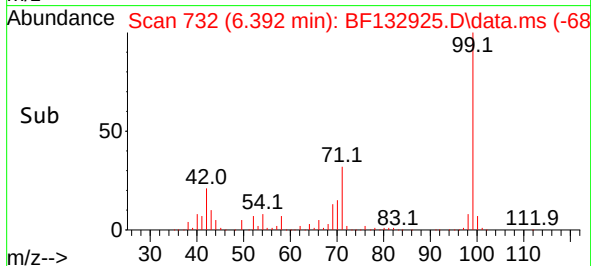
Instrument :
BNA_F
ClientSampleId :
SPB-3WC-23-04-17



Tgt Ion: 99 Resp: 2406491
Ion Ratio Lower Upper
99 100
42 20.5 16.1 24.1
71 32.4 26.1 39.1

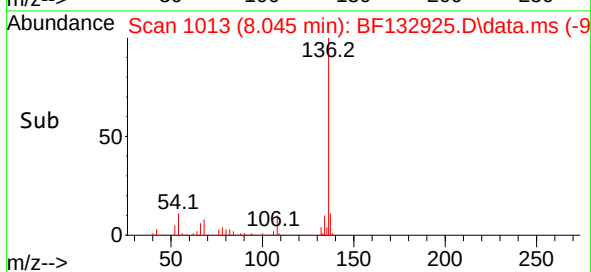
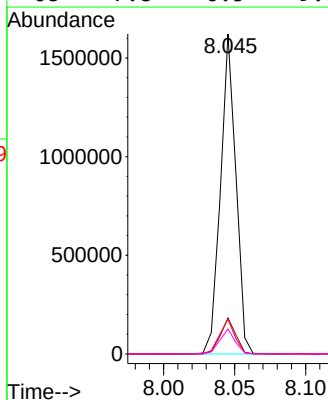
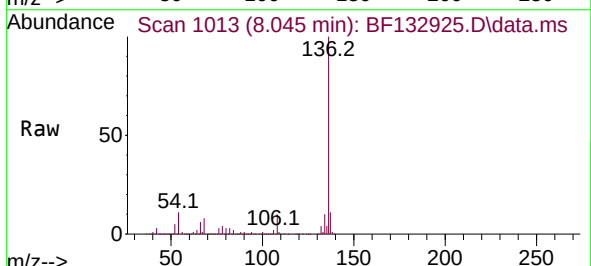
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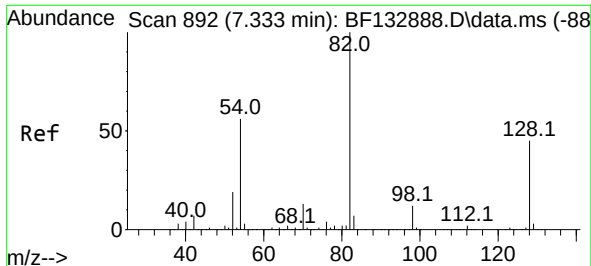
Reviewed By :Christian Giraldo 04/20/2023
Supervised By :Jagrut Upadhyay 04/24/2023



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.045 min Scan# 1013
Delta R.T. -0.006 min
Lab File: BF132925.D
Acq: 19 Apr 2023 22:14

Tgt Ion:136 Resp: 1221294
Ion Ratio Lower Upper
136 100
137 11.2 9.0 13.4
54 10.8 8.9 13.3
68 7.8 6.5 9.7





#23

Nitrobenzene-d5

Concen: 63.033 ng

RT: 7.328 min Scan# 89

Delta R.T. -0.006 min

Lab File: BF132925.D

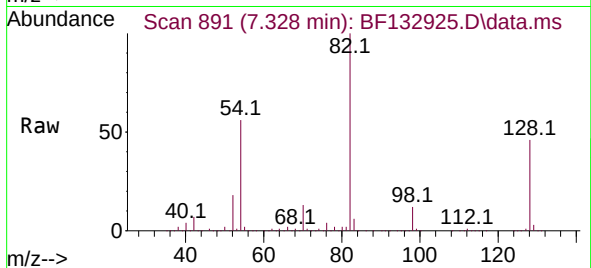
Acq: 19 Apr 2023 22:14

Instrument :

BNA_F

ClientSampleId :

SPB-3WC-23-04-17



Tgt Ion: 82 Resp: 147686

Ion Ratio Lower Upper

82 100

128 46.1 35.7 53.5

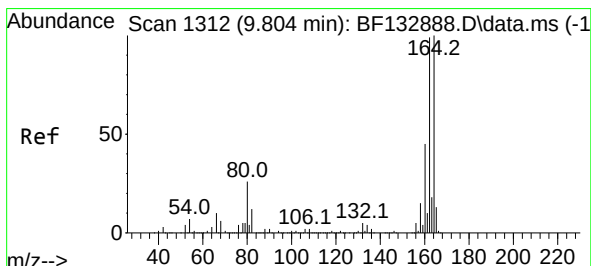
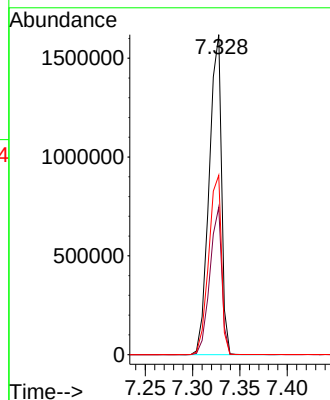
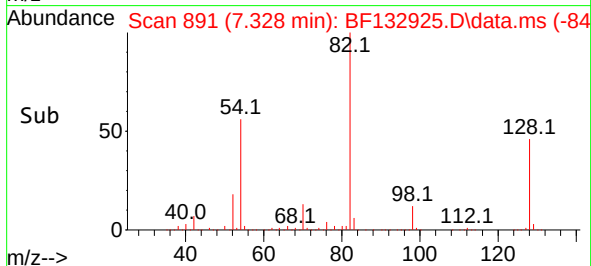
54 56.0 44.7 67.1

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Supervised By :Jagrut Upadhyay 04/24/2023



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.798 min Scan# 1311

Delta R.T. -0.006 min

Lab File: BF132925.D

Acq: 19 Apr 2023 22:14

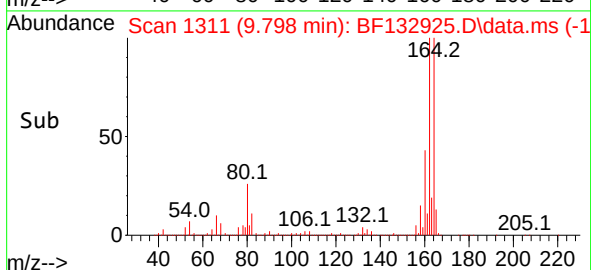
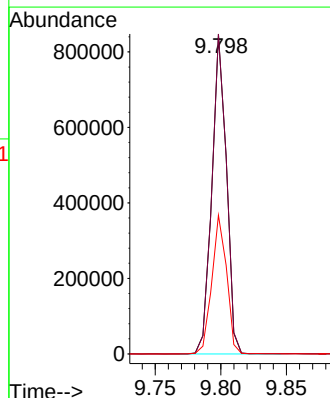
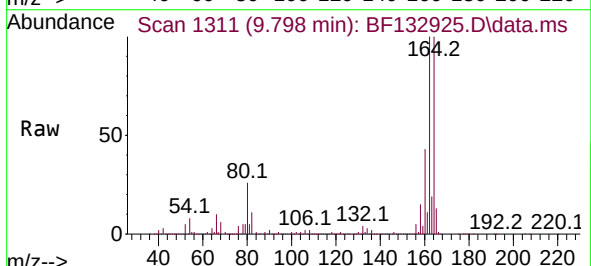
Tgt Ion:164 Resp: 650343

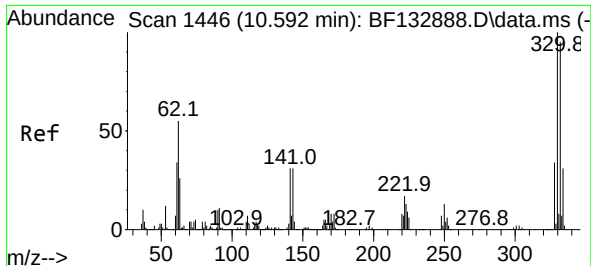
Ion Ratio Lower Upper

164 100

162 100.1 79.1 118.7

160 43.4 35.6 53.4





#42
2,4,6-Tribromophenol
Concen: 104.043 ng
RT: 10.586 min Scan# 1445
Delta R.T. -0.006 min
Lab File: BF132925.D
Acq: 19 Apr 2023 22:14

Instrument :

BNA_F

ClientSampleId :

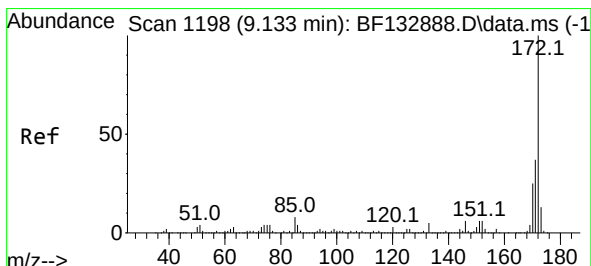
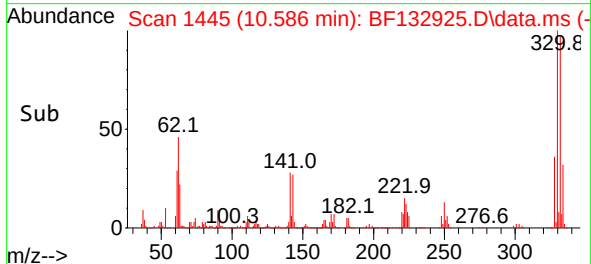
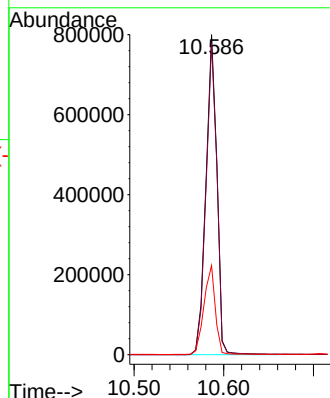
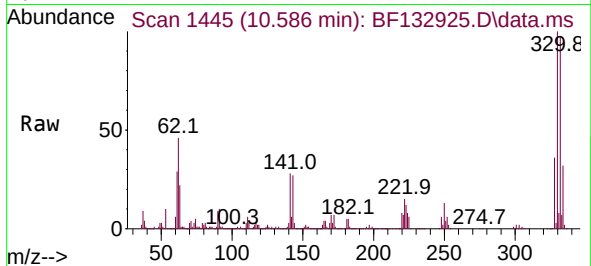
SPB-3WC-23-04-17

Tgt Ion:330 Resp: 678668
Ion Ratio Lower Upper
330 100
332 97.4 76.3 114.5
141 29.0 23.9 35.9

Manual Integrations

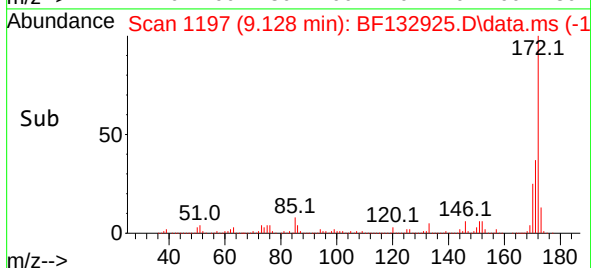
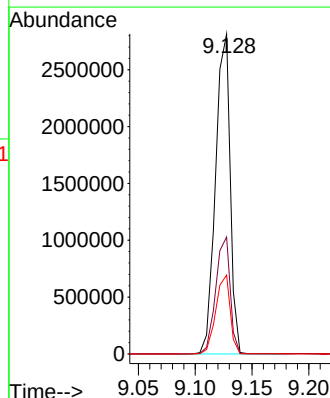
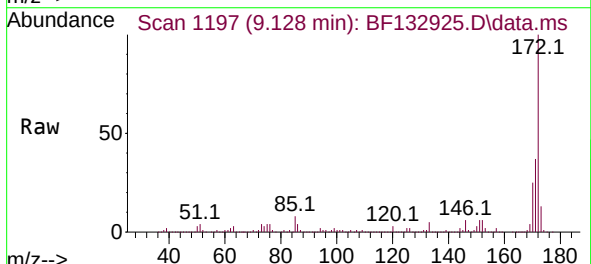
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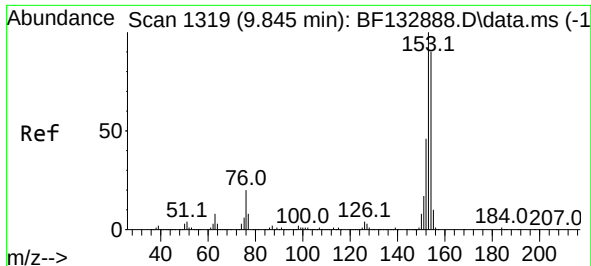
Reviewed By :Christian Giraldo 04/20/2023
Supervised By :Jagrut Upadhyay 04/24/2023



#45
2-Fluorobiphenyl
Concen: 59.632 ng
RT: 9.128 min Scan# 1197
Delta R.T. -0.006 min
Lab File: BF132925.D
Acq: 19 Apr 2023 22:14

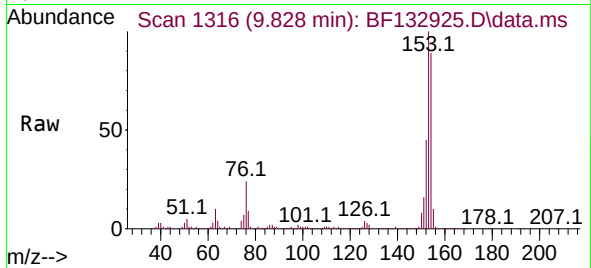
Tgt Ion:172 Resp: 2524452
Ion Ratio Lower Upper
172 100
171 36.5 29.4 44.0
170 24.6 20.1 30.1





#52
Acenaphthene
Concen: 3.196 ng
RT: 9.828 min Scan# 1319
Delta R.T. -0.018 min
Lab File: BF132925.D
Acq: 19 Apr 2023 22:14

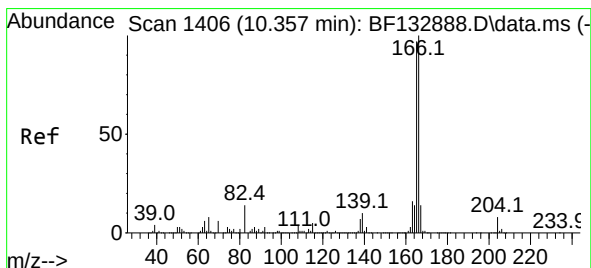
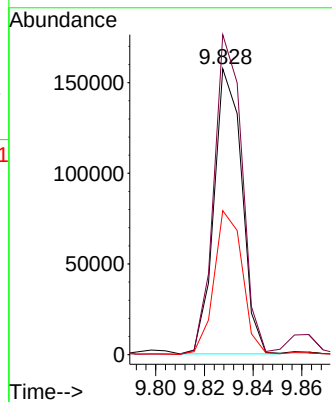
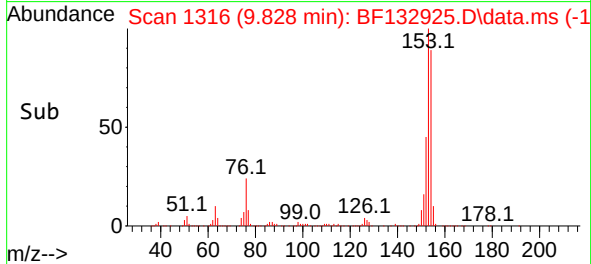
Instrument :
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ClientSampleId :
SPB-3WC-23-04-17



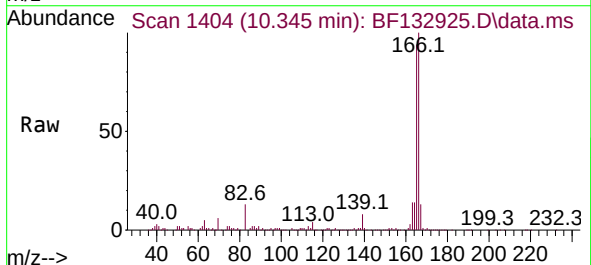
Tgt Ion:154 Resp: 125313
Ion Ratio Lower Upper
154 100
153 111.9 88.8 133.2
152 50.3 41.2 61.8

Manual Integrations
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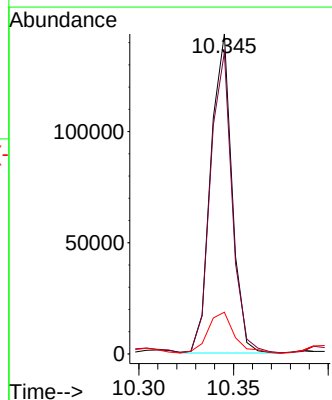
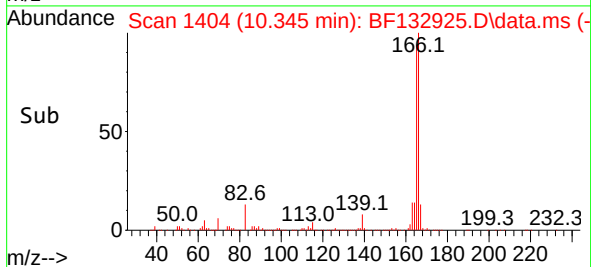
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Supervised By :Jagrut Upadhyay 04/24/2023

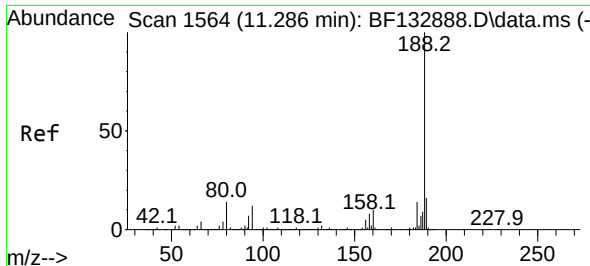


#58
Fluorene
Concen: 2.740 ng
RT: 10.345 min Scan# 1404
Delta R.T. -0.012 min
Lab File: BF132925.D
Acq: 19 Apr 2023 22:14



Tgt Ion:166 Resp: 111667
Ion Ratio Lower Upper
166 100
165 94.2 78.0 117.0
167 13.0 11.0 16.4





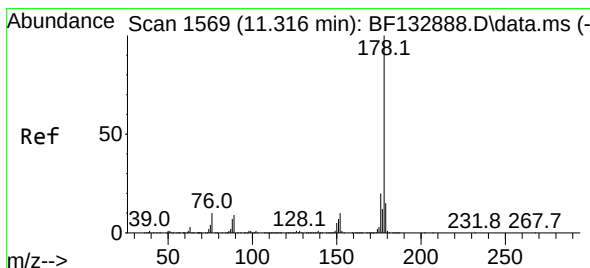
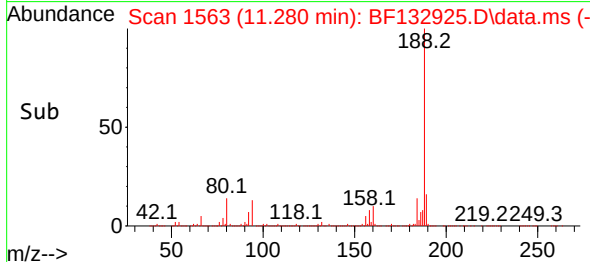
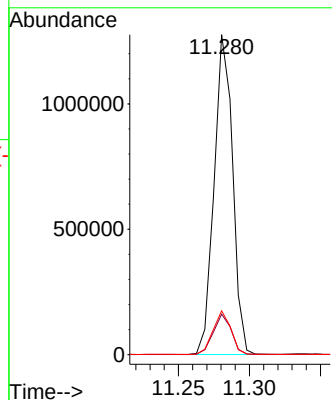
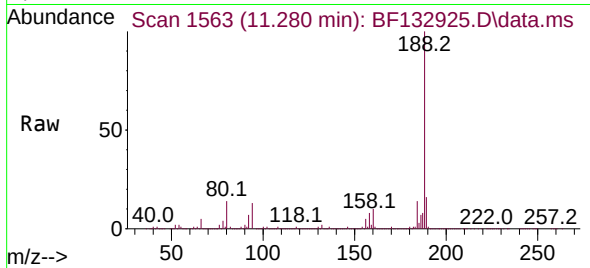
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Phenanthrene-d10
Concen: 20.000 ng
RT: 11.280 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF132925.D
Acq: 19 Apr 2023 22:14

Instrument :
BNA_F
ClientSampleId :
SPB-3WC-23-04-17

Tgt Ion:188 Resp: 1158904
Ion Ratio Lower Upper
188 100
94 12.6 9.9 14.9
80 13.7 10.8 16.2

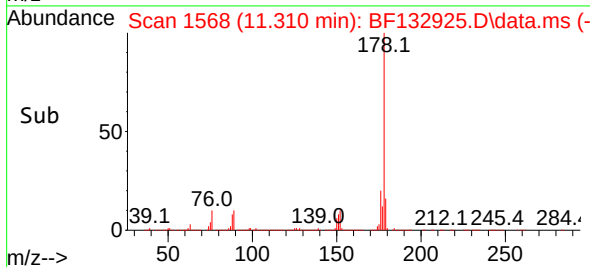
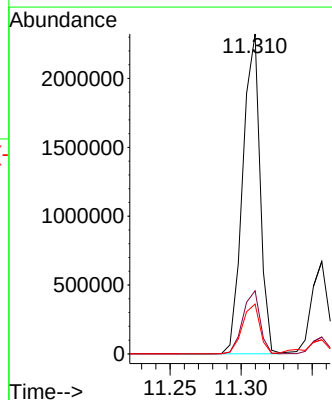
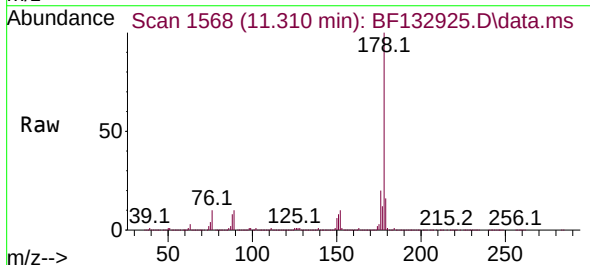
Manual Integrations
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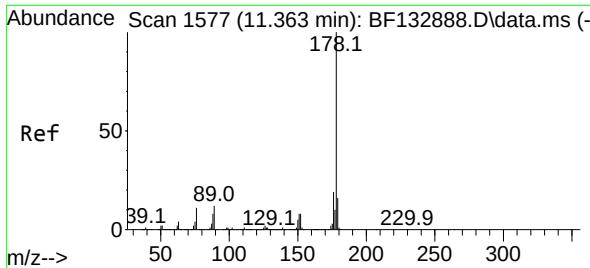
Reviewed By :Christian Giraldo 04/20/2023
Supervised By :Jagrut Upadhyay 04/24/2023



#71
Phenanthrene
Concen: 31.502 ng
RT: 11.310 min Scan# 1568
Delta R.T. -0.006 min
Lab File: BF132925.D
Acq: 19 Apr 2023 22:14

Tgt Ion:178 Resp: 1963712
Ion Ratio Lower Upper
178 100
176 19.7 15.9 23.9
179 15.6 12.3 18.5





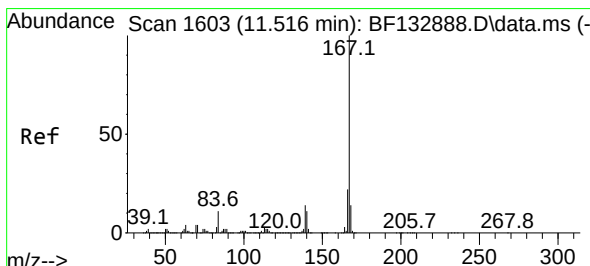
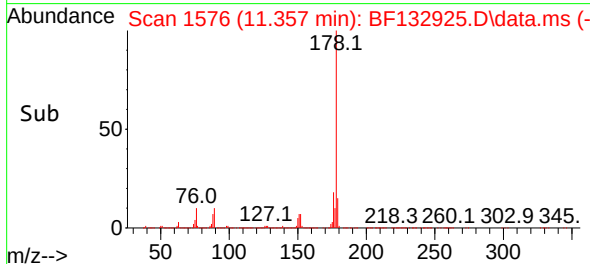
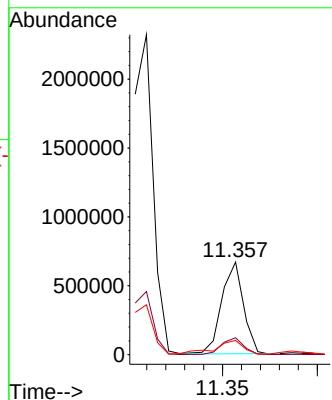
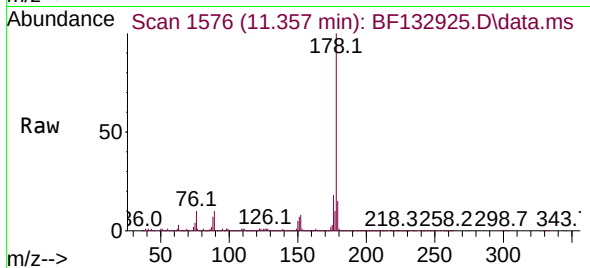
#72
 Anthracene
 Concen: 8.355 ng
 RT: 11.357 min Scan# 11
 Delta R.T. -0.006 min
 Lab File: BF132925.D
 Acq: 19 Apr 2023 22:14

Instrument :
 BNA_F
 ClientSampleId :
 SPB-3WC-23-04-17

Tgt Ion:178 Resp: 533180
 Ion Ratio Lower Upper
 178 100
 176 18.2 15.5 23.3
 179 15.4 12.8 19.2

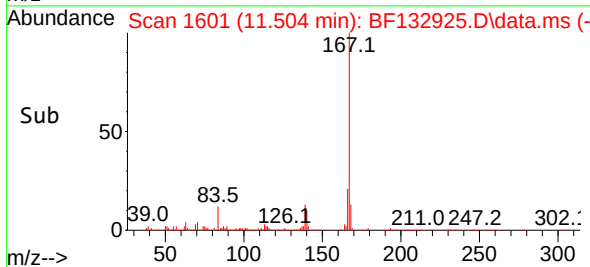
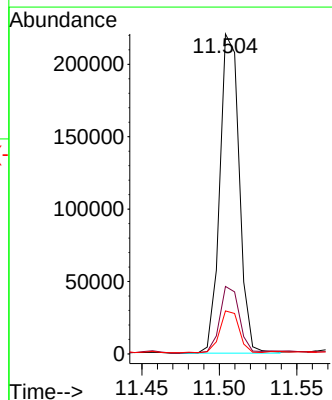
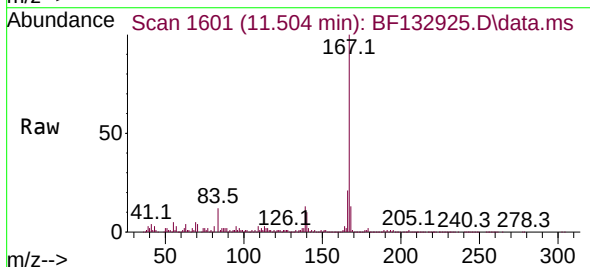
Manual Integrations
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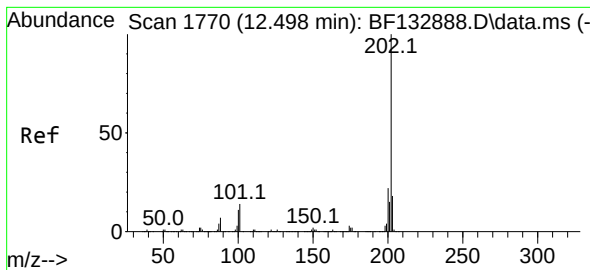
Reviewed By :Christian Giraldo 04/20/2023
 Supervised By :Jagrut Upadhyay 04/24/2023



#73
 Carbazole
 Concen: 3.494 ng
 RT: 11.504 min Scan# 1601
 Delta R.T. -0.012 min
 Lab File: BF132925.D
 Acq: 19 Apr 2023 22:14

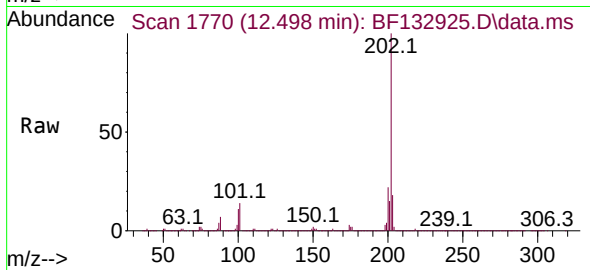
Tgt Ion:167 Resp: 192900
 Ion Ratio Lower Upper
 167 100
 166 21.1 17.4 26.2
 139 13.4 11.0 16.4





#75
Fluoranthene
Concen: 46.794 ng
RT: 12.498 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF132925.D
Acq: 19 Apr 2023 22:14

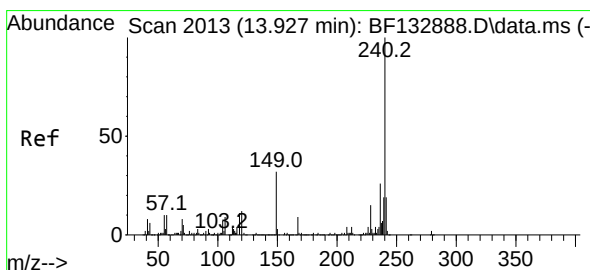
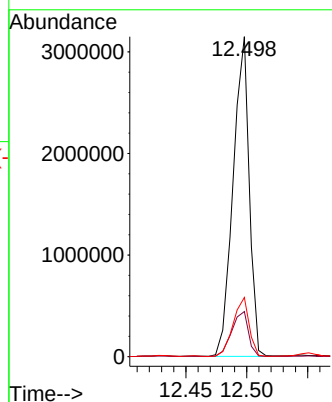
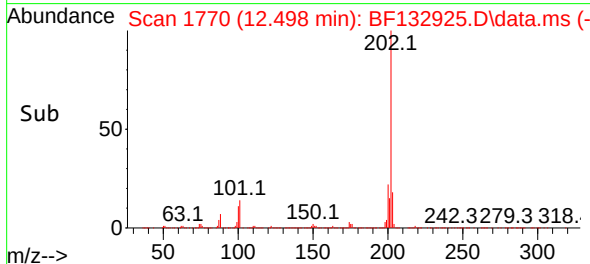
Instrument :
BNA_F
ClientSampleId :
SPB-3WC-23-04-17



Tgt Ion:202 Resp: 2900758
Ion Ratio Lower Upper
202 100
101 14.1 0.0 34.5
203 18.5 0.0 38.2

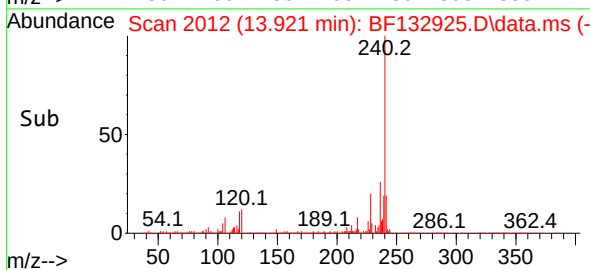
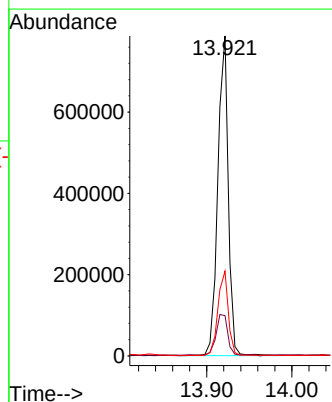
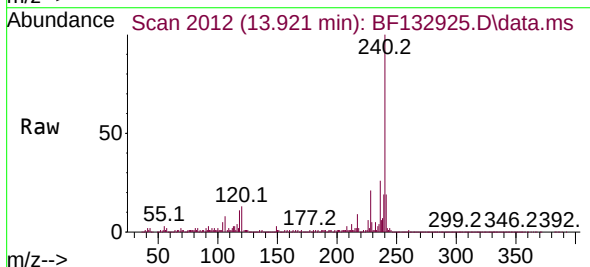
Manual Integrations
APPROVED

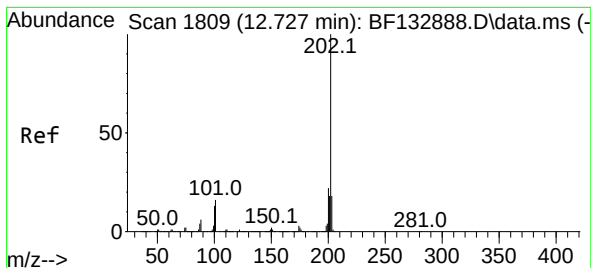
Reviewed By :Christian Giraldo 04/20/2023
Supervised By :Jagrut Upadhyay 04/24/2023



#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.921 min Scan# 2012
Delta R.T. -0.006 min
Lab File: BF132925.D
Acq: 19 Apr 2023 22:14

Tgt Ion:240 Resp: 668035
Ion Ratio Lower Upper
240 100
120 12.6 10.0 15.0
236 26.5 20.8 31.2





#78

Pyrene

Concen: 43.750 ng

RT: 12.721 min Scan# 1809

Delta R.T. -0.006 min

Lab File: BF132925.D

Acq: 19 Apr 2023 22:14

Instrument :

BNA_F

ClientSampleId :

SPB-3WC-23-04-17

Tgt Ion:202 Resp: 238980

Ion Ratio Lower Upper

202 100

200 21.9 17.6 26.4

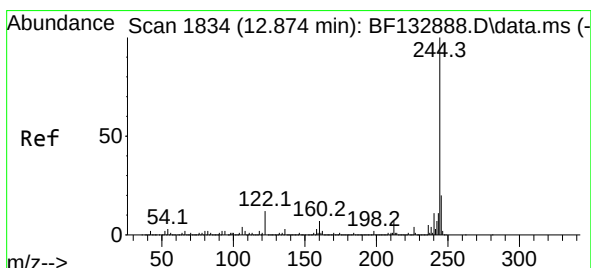
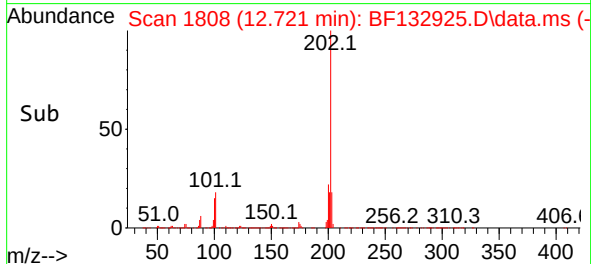
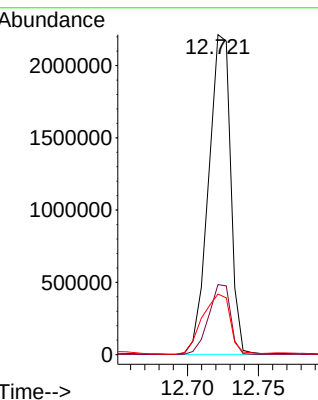
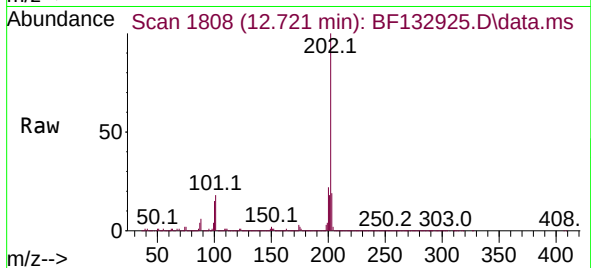
203 18.9 14.6 22.0

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 04/20/2023

Supervised By :Jagrut Upadhyay 04/24/2023



#79

Terphenyl-d14

Concen: 72.891 ng

RT: 12.874 min Scan# 1834

Delta R.T. 0.000 min

Lab File: BF132925.D

Acq: 19 Apr 2023 22:14

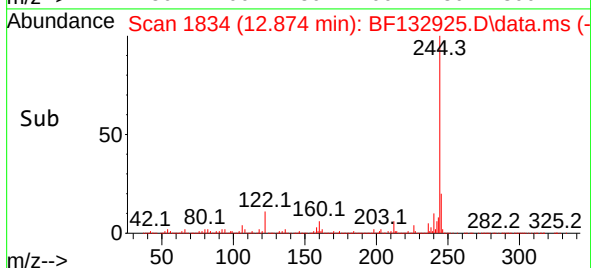
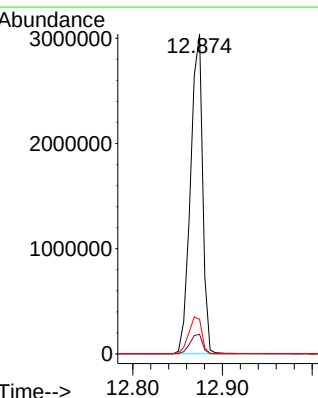
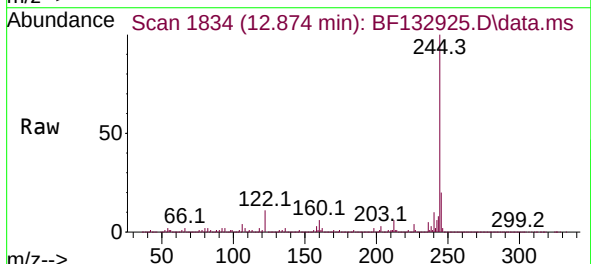
Tgt Ion:244 Resp: 2854149

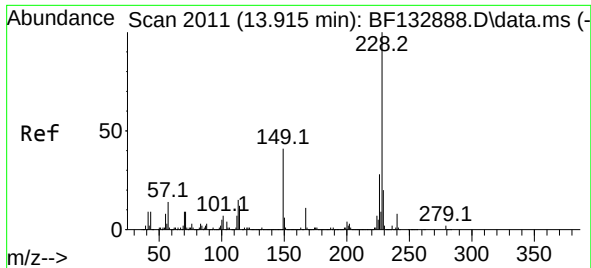
Ion Ratio Lower Upper

244 100

212 6.1 5.4 8.0

122 10.8 9.6 14.4





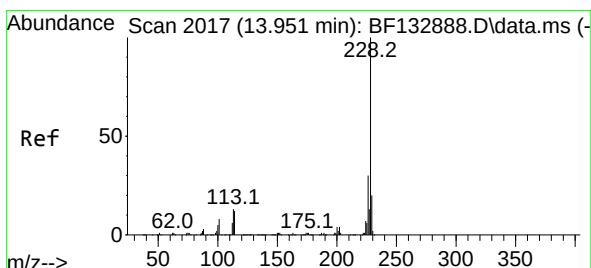
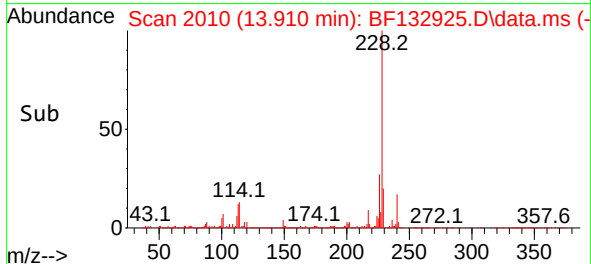
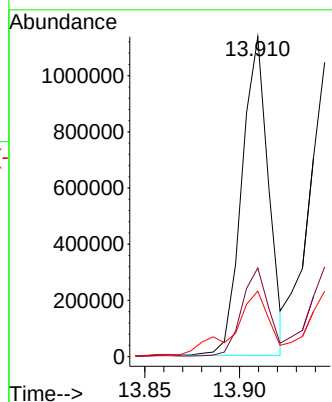
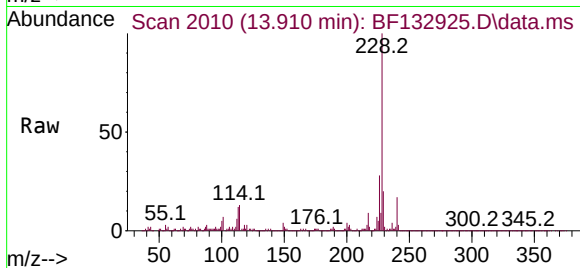
#81
Benzo(a)anthracene
Concen: 24.402 ng
RT: 13.910 min Scan# 2011
Delta R.T. -0.006 min
Lab File: BF132925.D
Acq: 19 Apr 2023 22:14

Instrument :
BNA_F
ClientSampleId :
SPB-3WC-23-04-17

Tgt Ion:228 Resp: 1108617
Ion Ratio Lower Upper
228 100
226 27.7 22.4 33.6
229 20.5 16.2 24.2

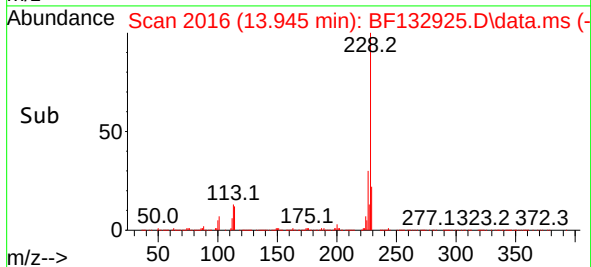
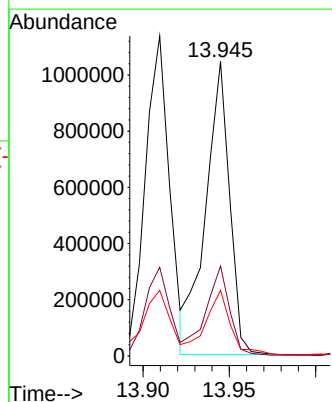
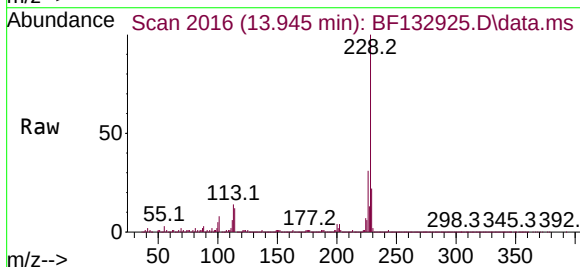
Manual Integrations
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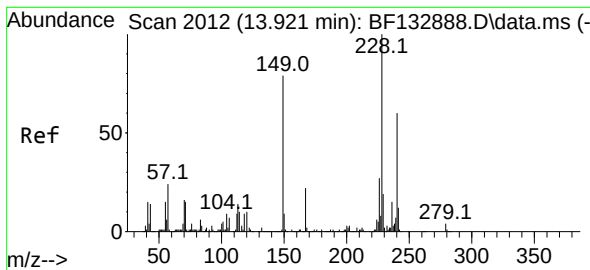
Reviewed By :Christian Giraldo 04/20/2023
Supervised By :Jagrut Upadhyay 04/24/2023



#83
Chrysene
Concen: 22.392 ng m
RT: 13.945 min Scan# 2016
Delta R.T. -0.006 min
Lab File: BF132925.D
Acq: 19 Apr 2023 22:14

Tgt Ion:228 Resp: 1011142
Ion Ratio Lower Upper
228 100
226 30.5 24.3 36.5
229 22.3 16.2 24.4





#84

Bis(2-ethylhexyl)phthalate

Concen: 2.653 ng

RT: 13.910 min Scan# 2012

Delta R.T. -0.011 min

Lab File: BF132925.D

Acq: 19 Apr 2023 22:14

Instrument :

BNA_F

ClientSampleId :

SPB-3WC-23-04-17

Tgt Ion:149 Resp: 45843

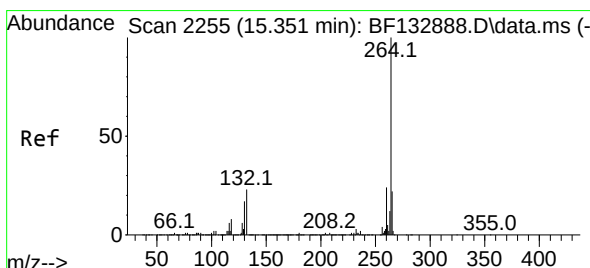
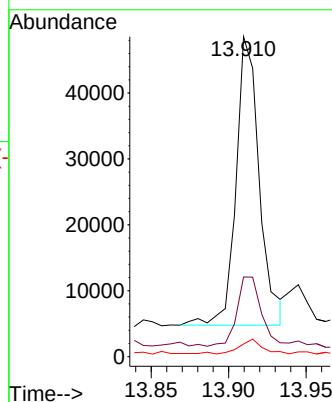
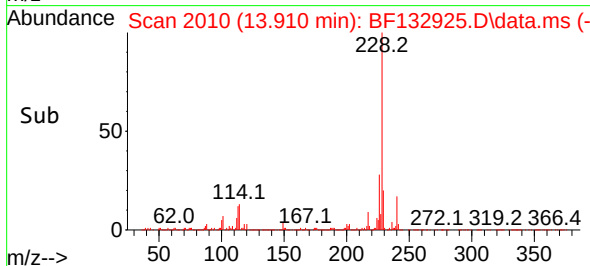
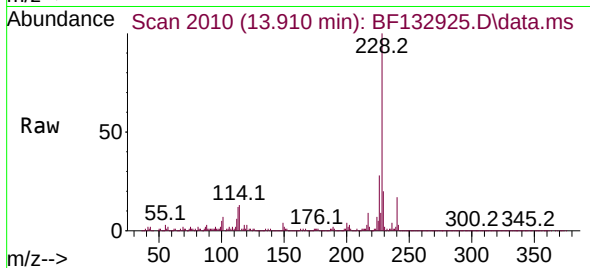
Ion	Ratio	Lower	Upper
149	100		
167	24.9	22.2	33.4
279	3.9	4.2	6.2

Manual Integrations

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Reviewed By :Christian Giraldo 04/20/2023

Supervised By :Jagrut Upadhyay 04/24/2023



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.351 min Scan# 2255

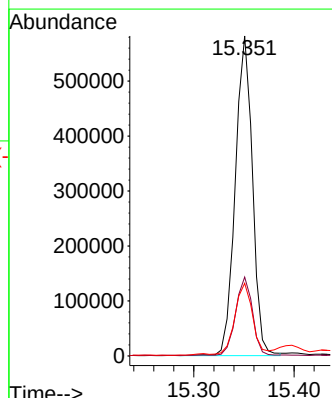
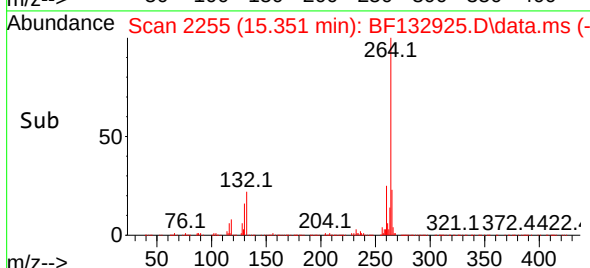
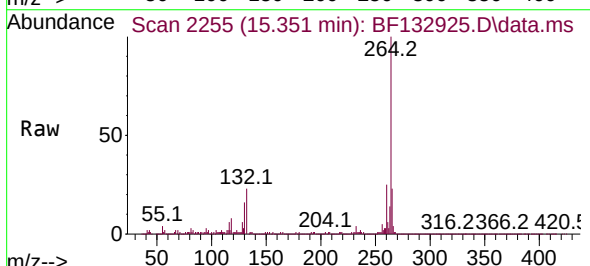
Delta R.T. -0.000 min

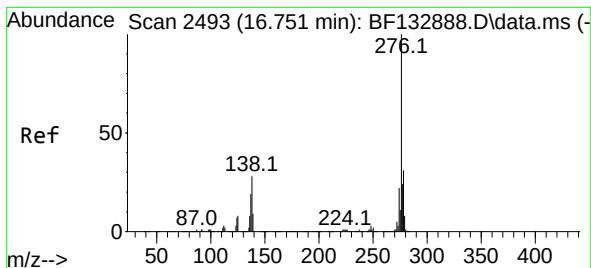
Lab File: BF132925.D

Acq: 19 Apr 2023 22:14

Tgt Ion:264 Resp: 690618

Ion	Ratio	Lower	Upper
264	100		
260	24.6	19.0	28.6
265	22.7	17.7	26.5





#87

Indeno(1,2,3-cd)pyrene

Concen: 10.361 ng

RT: 16.739 min Scan# 2491

Delta R.T. -0.012 min

Lab File: BF132925.D

Acq: 19 Apr 2023 22:14

Instrument :

BNA_F

ClientSampleId :

SPB-3WC-23-04-17

Tgt Ion:276 Resp: 408868

Ion Ratio Lower Upper

276 100

138 26.7 25.5 38.3

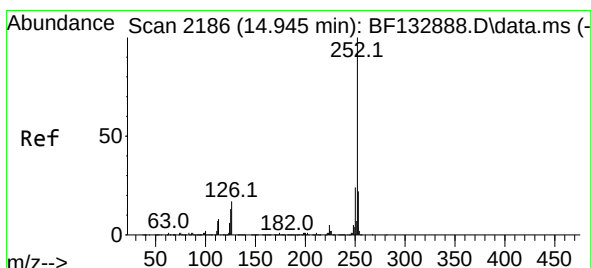
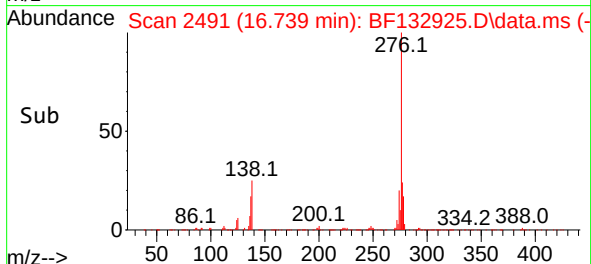
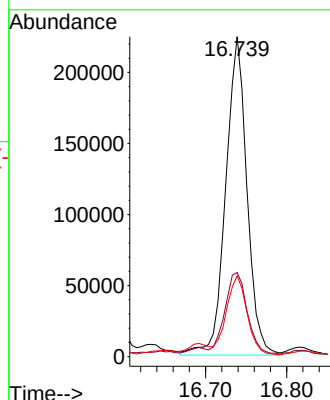
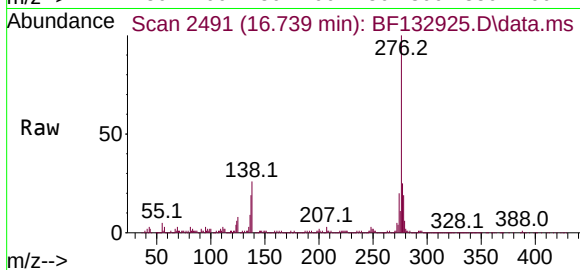
277 24.5 20.3 30.5

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 04/20/2023

Supervised By :Jagrut Upadhyay 04/24/2023



#88

Benzo(b)fluoranthene

Concen: 25.394 ng m

RT: 14.939 min Scan# 2185

Delta R.T. -0.006 min

Lab File: BF132925.D

Acq: 19 Apr 2023 22:14

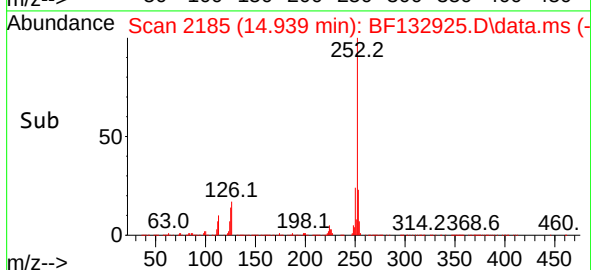
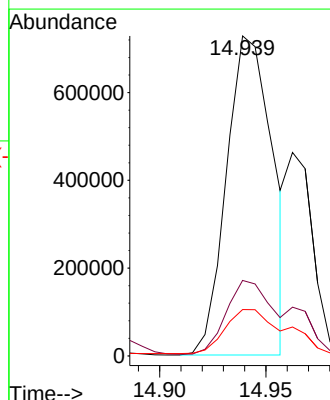
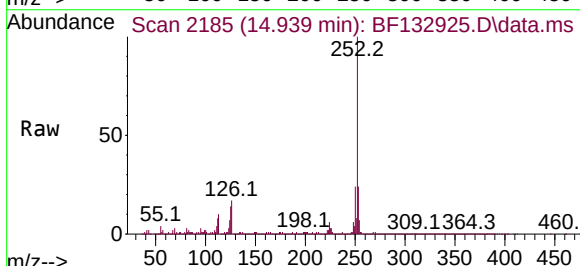
Tgt Ion:252 Resp: 1092414

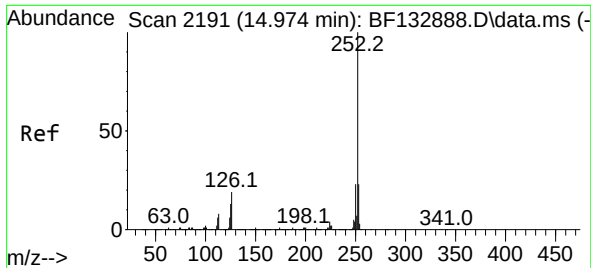
Ion Ratio Lower Upper

252 100

253 23.6 17.9 26.9

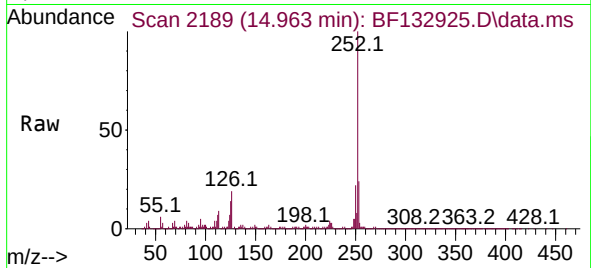
125 14.5 10.0 15.0





#89
Benzo(k)fluoranthene
Concen: 8.854 ng m
RT: 14.963 min Scan# 2191
Delta R.T. -0.012 min
Lab File: BF132925.D
Acq: 19 Apr 2023 22:14

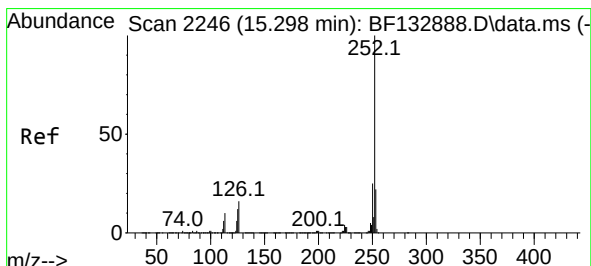
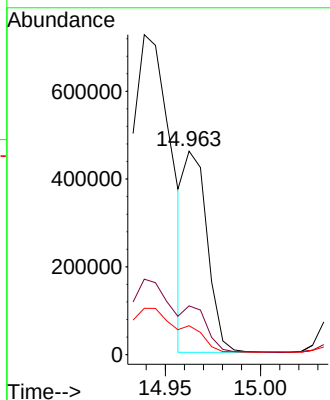
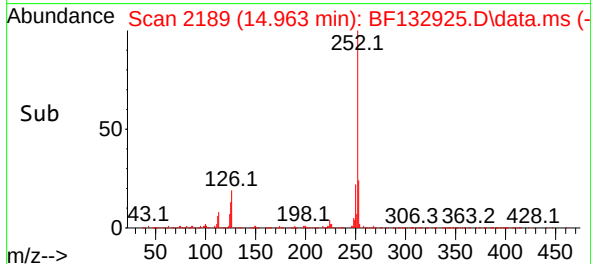
Instrument :
BNA_F
ClientSampleId :
SPB-3WC-23-04-17



Tgt Ion:252 Resp: 379433
Ion Ratio Lower Upper
252 100
253 23.9 18.0 27.0
125 14.2 10.0 15.0

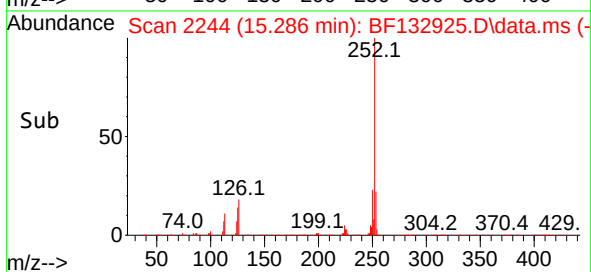
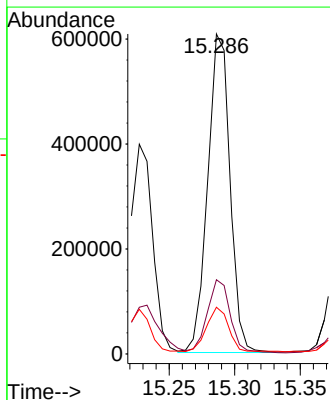
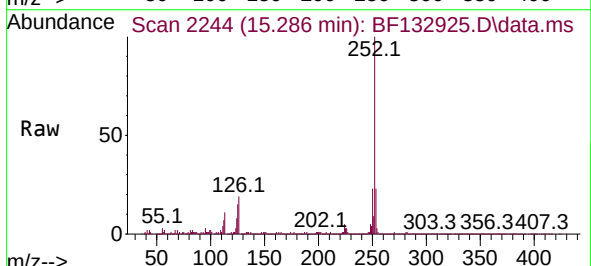
Manual Integrations
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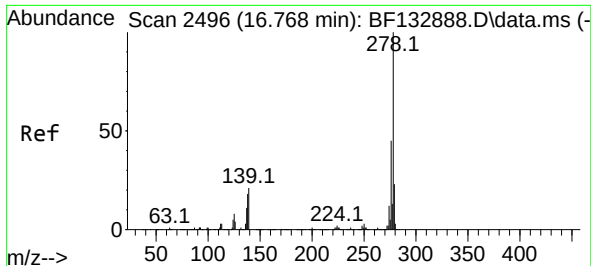
Reviewed By :Christian Giraldo 04/20/2023
Supervised By :Jagrut Upadhyay 04/24/2023



#90
Benzo(a)pyrene
Concen: 18.300 ng
RT: 15.286 min Scan# 2244
Delta R.T. -0.012 min
Lab File: BF132925.D
Acq: 19 Apr 2023 22:14

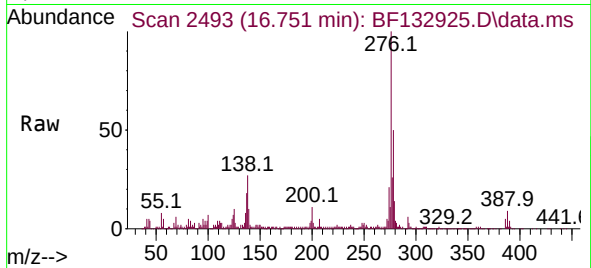
Tgt Ion:252 Resp: 719235
Ion Ratio Lower Upper
252 100
253 23.2 17.7 26.5
125 14.6 9.9 14.9





#91
Dibenzo(a,h)anthracene
Concen: 3.380 ng m
RT: 16.751 min Scan# 2493
Delta R.T. -0.017 min
Lab File: BF132925.D
Acq: 19 Apr 2023 22:14

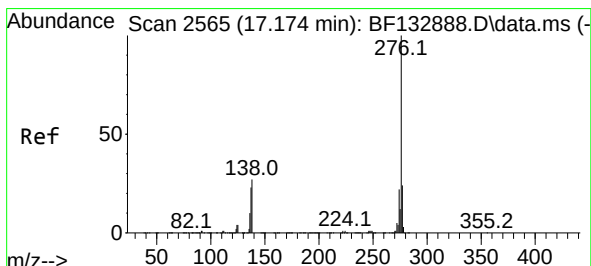
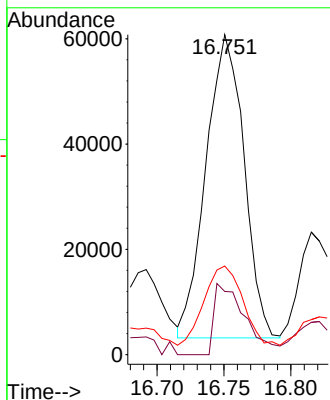
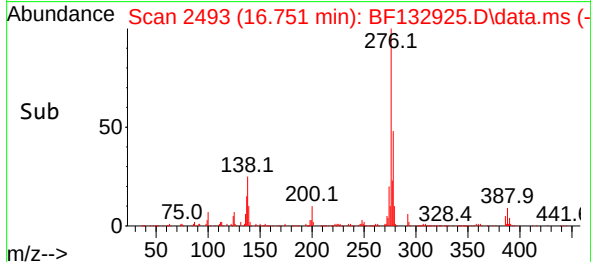
Instrument :
BNA_F
ClientSampleId :
SPB-3WC-23-04-17



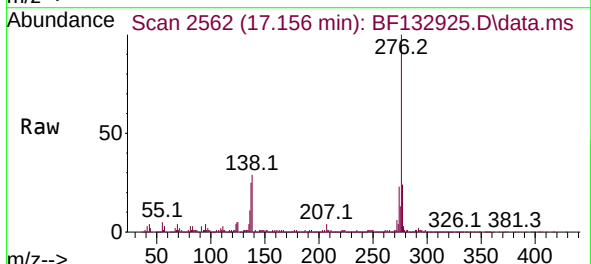
Tgt Ion:278 Resp: 113663
Ion Ratio Lower Upper
278 100
139 19.7 16.7 25.1
279 27.7 18.4 27.6

Manual Integrations
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Reviewed By :Christian Giraldo 04/20/2023
Supervised By :Jagrut Upadhyay 04/24/2023



#92
Benzo(g,h,i)perylene
Concen: 9.993 ng
RT: 17.156 min Scan# 2562
Delta R.T. -0.018 min
Lab File: BF132925.D
Acq: 19 Apr 2023 22:14



Tgt Ion:276 Resp: 321718
Ion Ratio Lower Upper
276 100
277 24.1 18.9 28.3
138 29.4 21.7 32.5

