

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF031023\
 Data File : BF132752.D
 Acq On : 10 Mar 2023 20:50
 Operator : CG\JU
 Sample : 01847-01
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TR-05-030823

Manual Integrations
 APPROVED

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

Quant Time: Mar 11 03:07:05 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

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.981	152	154039	20.000	ng	0.00
21) Naphthalene-d8	8.269	136	498217	20.000	ng	# 0.00
39) Acenaphthene-d10	10.033	164	226896	20.000	ng	0.00
64) Phenanthrene-d10	11.533	188	395059	20.000	ng	0.00
76) Chrysene-d12	14.186	240	268512	20.000	ng	# 0.00
86) Perylene-d12	15.739	264	227339	20.000	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.604	112	959076	101.049	ng	0.00
7) Phenol-d6	6.610	99	1134101	91.557	ng	-0.01
23) Nitrobenzene-d5	7.545	82	655125	62.386	ng	-0.01
42) 2,4,6-Tribromophenol	10.828	330	214878	87.692	ng	0.00
45) 2-Fluorobiphenyl	9.345	172	956332	64.178	ng	0.00
79) Terphenyl-d14	13.121	244	1108776	69.817	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.292	128	101550	3.981	ng	# 73
37) 2-Methylnaphthalene	8.986	142	223345	12.849	ng	100
38) 1-Methylnaphthalene	9.086	142	153608	9.456	ng	91
46) 1,1'-Biphenyl	9.445	154	105155	6.123	ng	98
49) Acenaphthylene	9.892	152	67780	3.128	ng	# 70
52) Acenaphthene	10.069	154	36339	2.641	ng	# 56
58) Fluorene	10.586	166	71590	4.666	ng	# 65
71) Phenanthrene	11.557	178	273066	13.342	ng	97
72) Anthracene	11.610	178	87422m	4.148	ng	
75) Fluoranthene	12.757	202	456865	20.420	ng	99
78) Pyrene	12.992	202	585429	23.981	ng	99
81) Benzo(a)anthracene	14.180	228	281773	14.025	ng	# 89
83) Chrysene	14.216	228	268870	14.311	ng	96
87) Indeno(1,2,3-cd)pyrene	17.339	276	121577	8.162	ng	# 92
88) Benzo(b)fluoranthene	15.274	252	314820m	20.664	ng	
89) Benzo(k)fluoranthene	15.304	252	116340m	7.803	ng	
90) Benzo(a)pyrene	15.668	252	233332	16.364	ng	# 91
91) Dibenzo(a,h)anthracene	17.351	278	31584	2.602	ng	# 49
92) Benzo(g,h,i)perylene	17.833	276	114894	9.709	ng	96

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

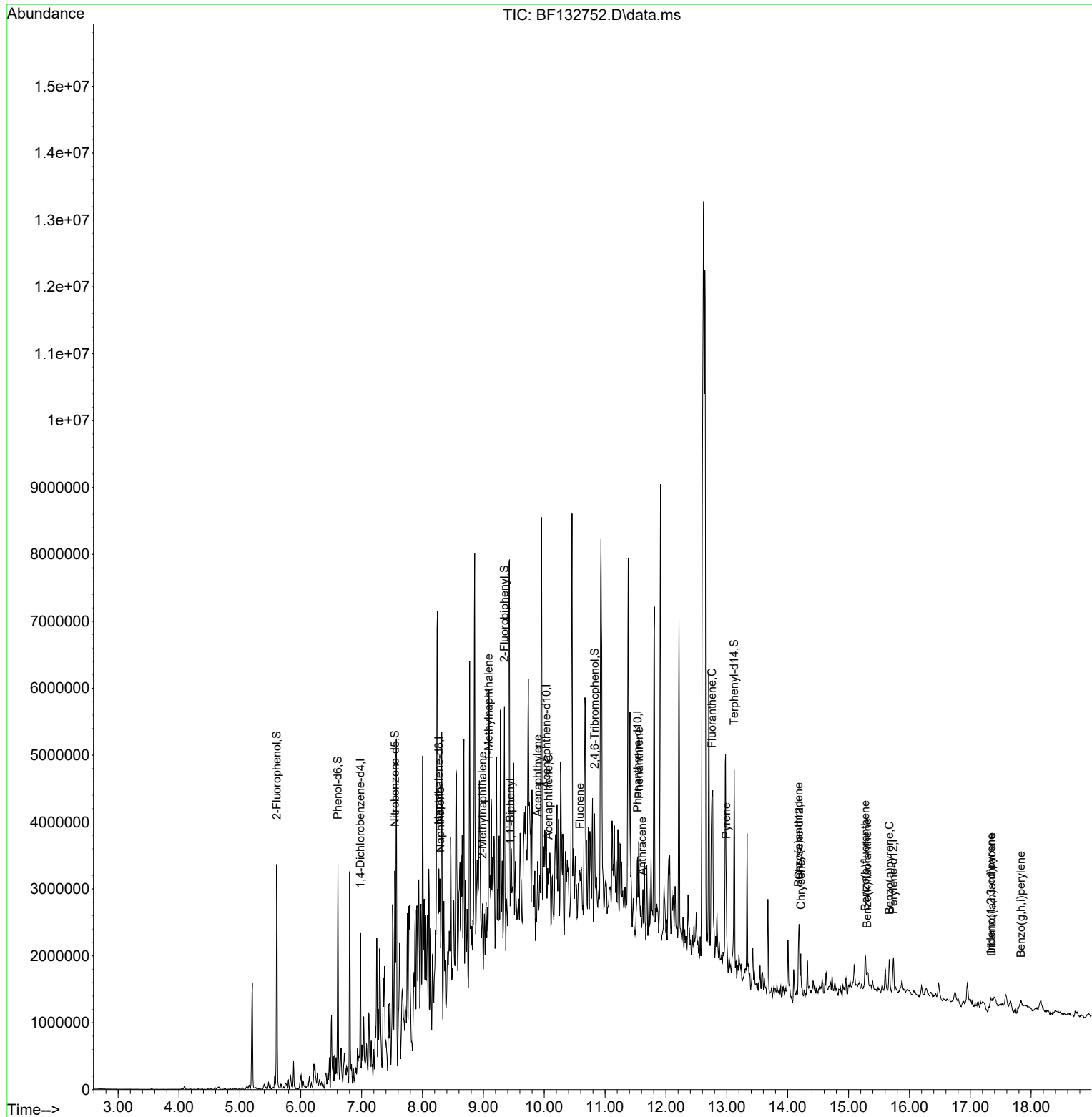
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF031023\
Data File : BF132752.D
Acq On : 10 Mar 2023 20:50
Operator : CG\JU
Sample : 01847-01
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ALS Vial : 22 Sample Multiplier: 1

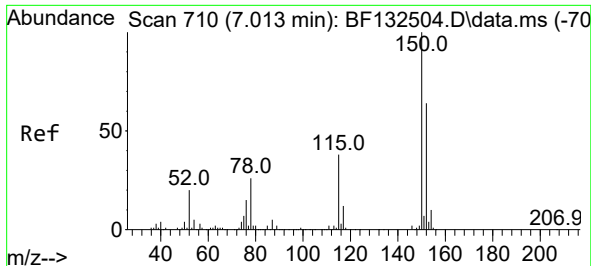
Instrument :
BNA_F
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TR-05-030823

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Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022223.M
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QLast Update : Thu Mar 09 16:26:19 2023
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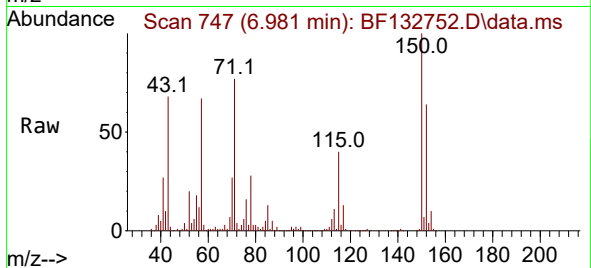
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.981 min Scan# 74
Delta R.T. -0.000 min
Lab File: BF132752.D
Acq: 10 Mar 2023 20:50

Instrument :

BNA_F

ClientSampleId :

TR-05-030823

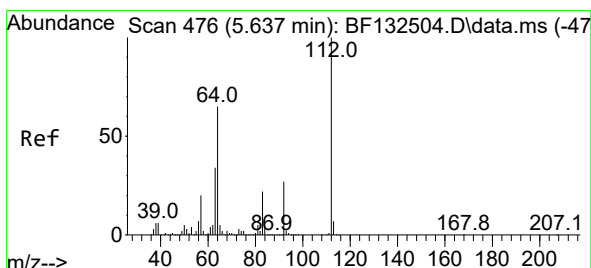
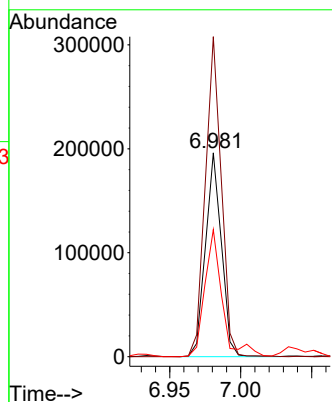
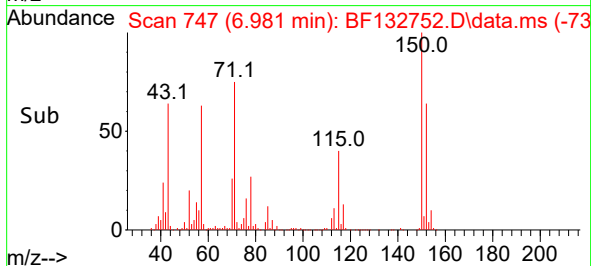


Tgt Ion:152 Resp: 154039
Ion Ratio Lower Upper
152 100
150 157.0 125.4 188.2
115 62.3 47.8 71.6

Manual Integrations

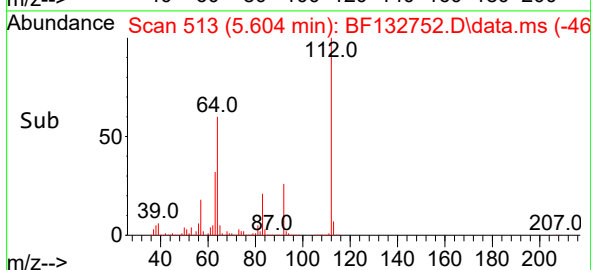
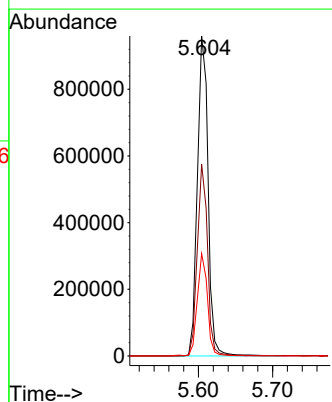
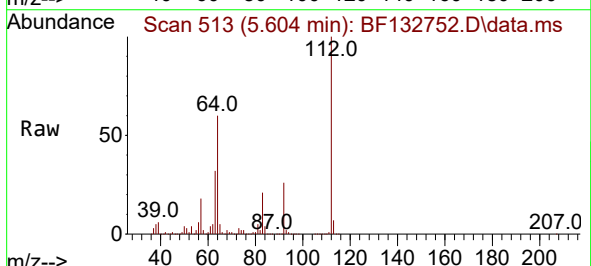
APPROVED

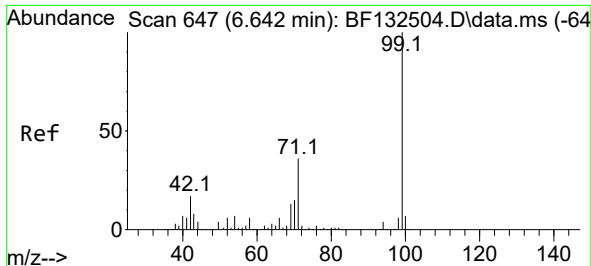
Reviewed By :Christian Giraldo 03/13/2023
Supervised By :Jagrut Upadhyay 03/13/2023



#5
2-Fluorophenol
Concen: 101.049 ng
RT: 5.604 min Scan# 513
Delta R.T. -0.006 min
Lab File: BF132752.D
Acq: 10 Mar 2023 20:50

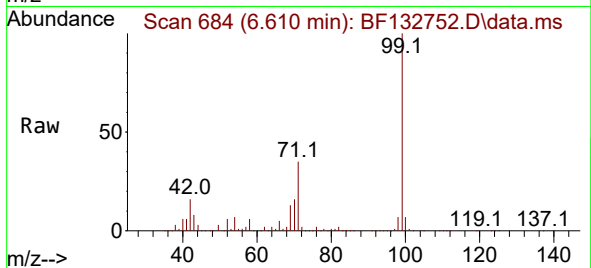
Tgt Ion:112 Resp: 959076
Ion Ratio Lower Upper
112 100
64 60.0 51.6 77.4
63 32.0 27.4 41.2





#7
Phenol-d6
Concen: 91.557 ng
RT: 6.610 min Scan# 610
Delta R.T. -0.012 min
Lab File: BF132752.D
Acq: 10 Mar 2023 20:50

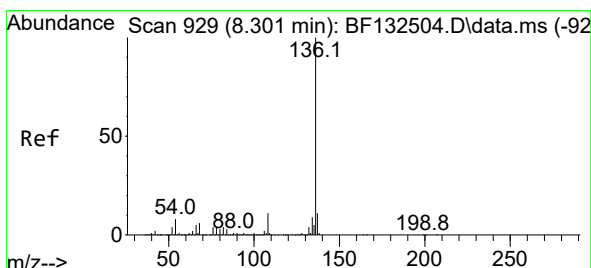
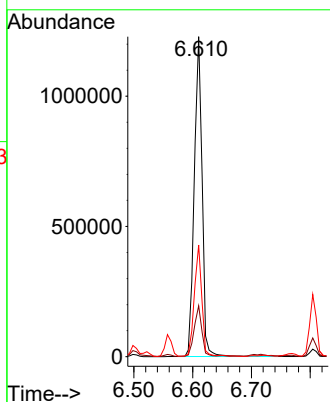
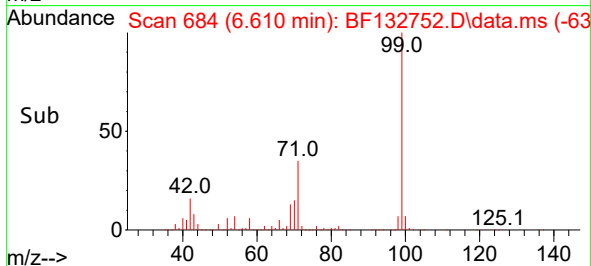
Instrument :
BNA_F
ClientSampleId :
TR-05-030823



Tgt Ion: 99 Resp: 113410
Ion Ratio Lower Upper
99 100
42 15.9 13.9 20.9
71 34.9 28.5 42.7

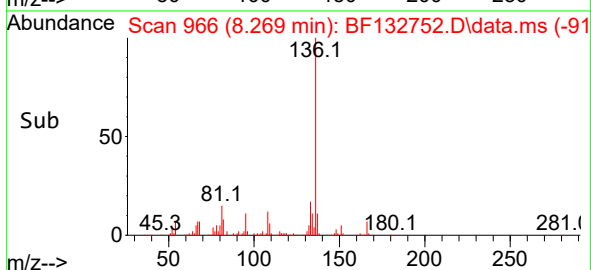
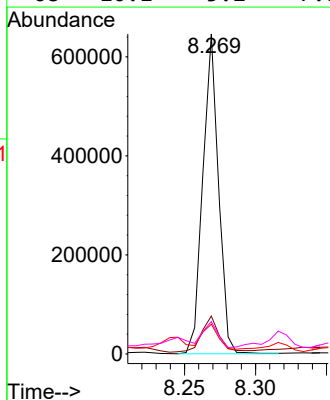
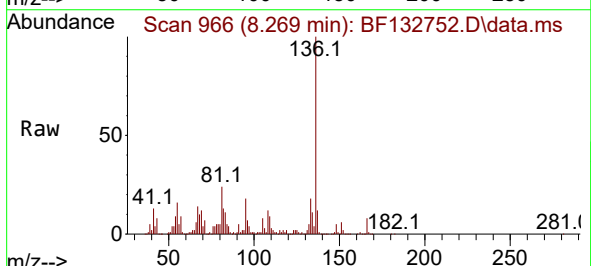
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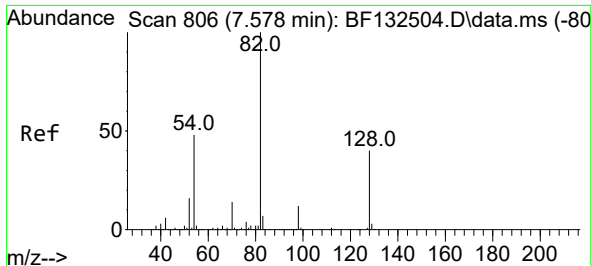
Reviewed By :Christian Giraldo 03/13/2023
Supervised By :Jagrut Upadhyay 03/13/2023



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.269 min Scan# 966
Delta R.T. 0.000 min
Lab File: BF132752.D
Acq: 10 Mar 2023 20:50

Tgt Ion:136 Resp: 498217
Ion Ratio Lower Upper
136 100
137 11.8 8.9 13.3
54 9.3 6.2 9.4
68 10.1 5.2 7.8





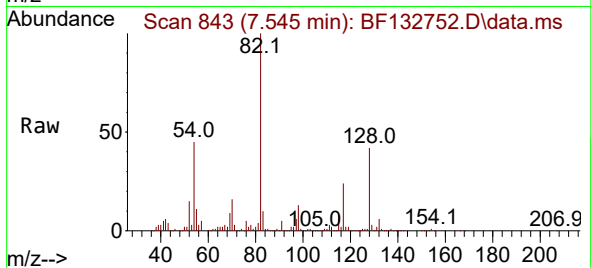
#23
Nitrobenzene-d5
Concen: 62.386 ng
RT: 7.545 min Scan# 84
Delta R.T. -0.012 min
Lab File: BF132752.D
Acq: 10 Mar 2023 20:50

Instrument :

BNA_F

ClientSampleId :

TR-05-030823

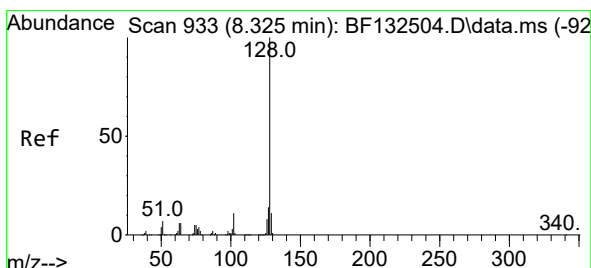
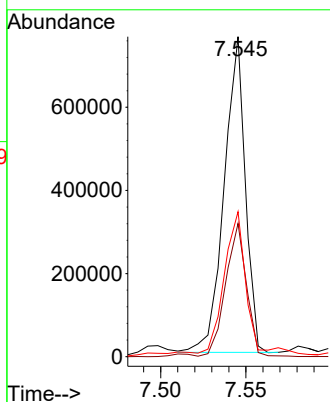
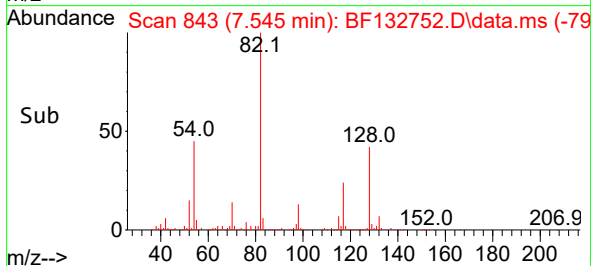


Tgt Ion: 82 Resp: 65512
Ion Ratio Lower Upper
82 100
128 41.6 32.2 48.2
54 45.3 38.4 57.6

Manual Integrations

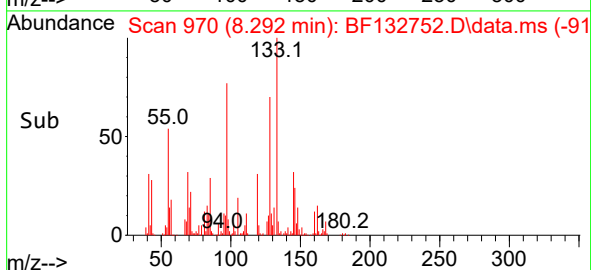
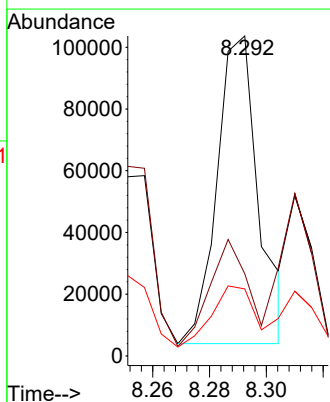
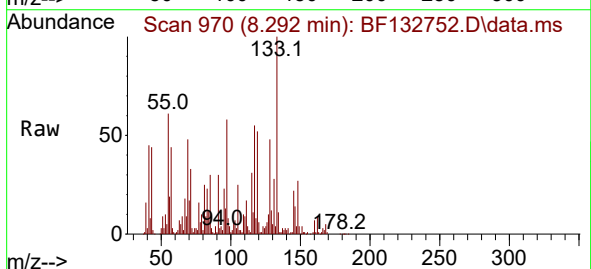
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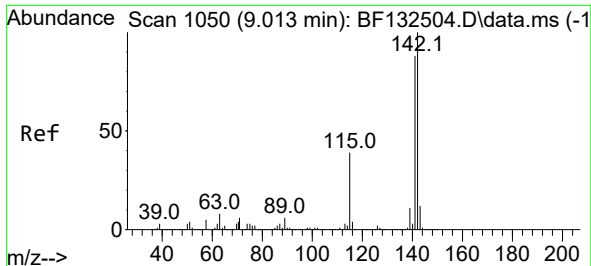
Reviewed By :Christian Giraldo 03/13/2023
Supervised By :Jagrut Upadhyay 03/13/2023



#31
Naphthalene
Concen: 3.981 ng
RT: 8.292 min Scan# 970
Delta R.T. 0.000 min
Lab File: BF132752.D
Acq: 10 Mar 2023 20:50

Tgt Ion:128 Resp: 101550
Ion Ratio Lower Upper
128 100
129 25.7 9.1 13.7#
127 21.0 11.0 16.6#





#37
2-Methylnaphthalene
Concen: 12.849 ng
RT: 8.986 min Scan# 1105
Delta R.T. 0.000 min
Lab File: BF132752.D
Acq: 10 Mar 2023 20:50

Instrument :

BNA_F

ClientSampleId :

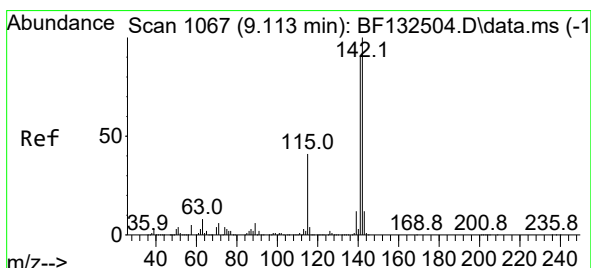
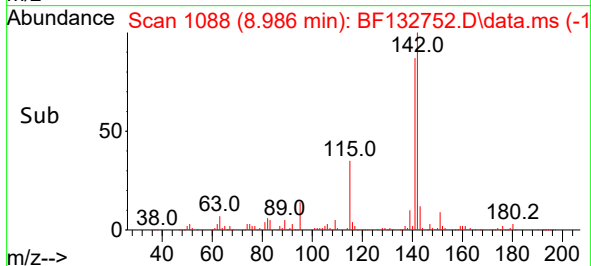
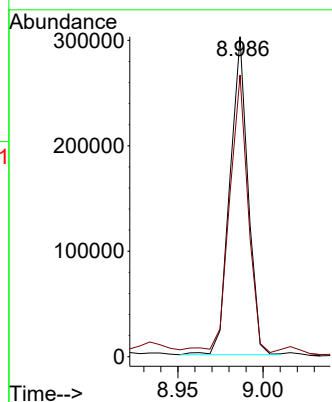
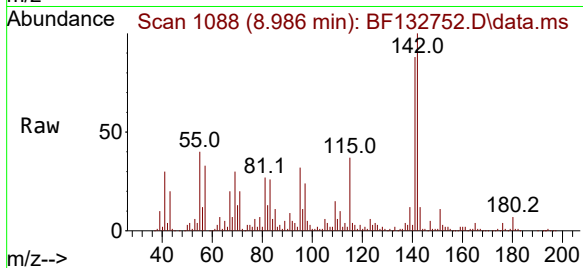
TR-05-030823

Tgt Ion:142 Resp: 22334
Ion Ratio Lower Upper
142 100
141 88.0 70.2 105.2

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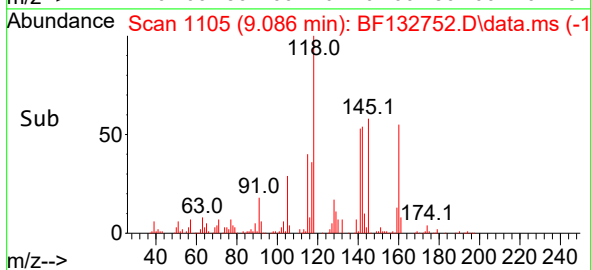
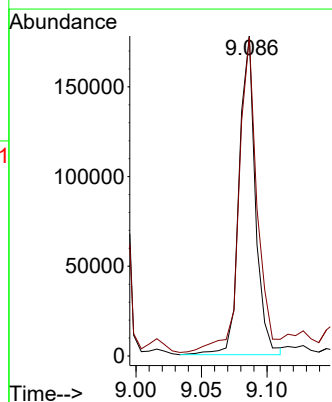
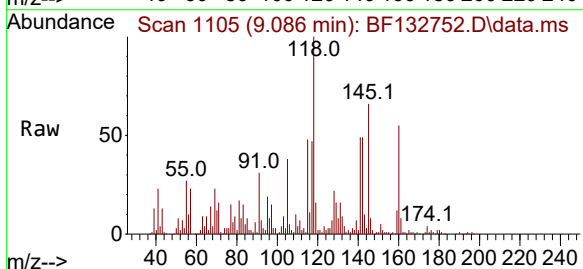
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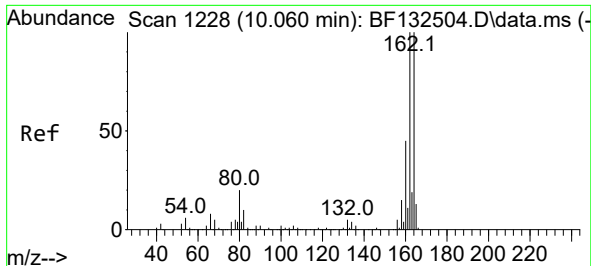
Reviewed By :Christian Giraldo 03/13/2023
Supervised By :Jagrut Upadhyay 03/13/2023



#38
1-Methylnaphthalene
Concen: 9.456 ng
RT: 9.086 min Scan# 1105
Delta R.T. 0.000 min
Lab File: BF132752.D
Acq: 10 Mar 2023 20:50

Tgt Ion:142 Resp: 153608
Ion Ratio Lower Upper
142 100
141 99.7 73.0 109.6





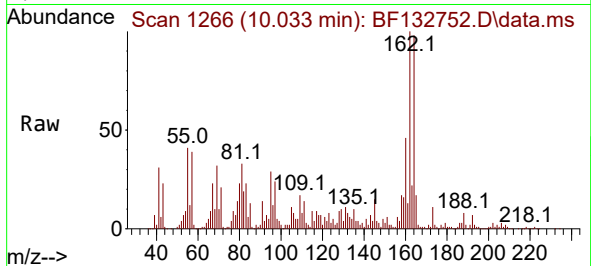
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 10.033 min Scan# 1401
Delta R.T. 0.000 min
Lab File: BF132752.D
Acq: 10 Mar 2023 20:50

Instrument :

BNA_F

ClientSampleId :

TR-05-030823

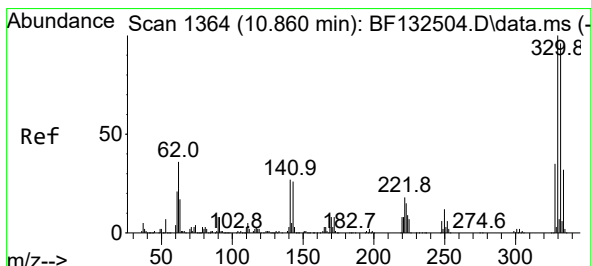
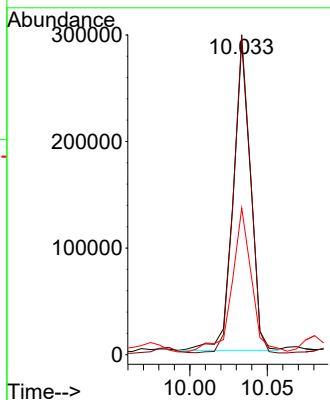
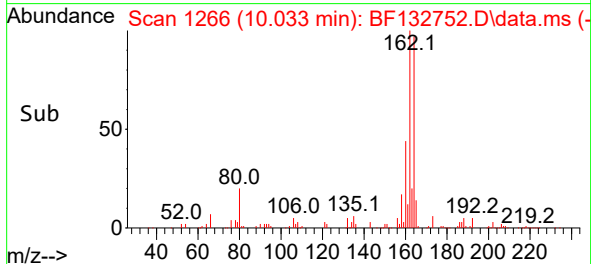


Tgt Ion:164 Resp: 226890
Ion Ratio Lower Upper
164 100
162 102.3 79.8 119.8
160 46.9 35.8 53.6

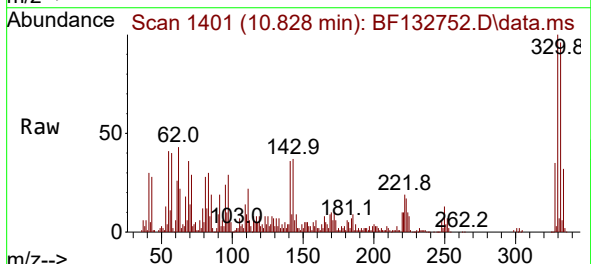
Manual Integrations

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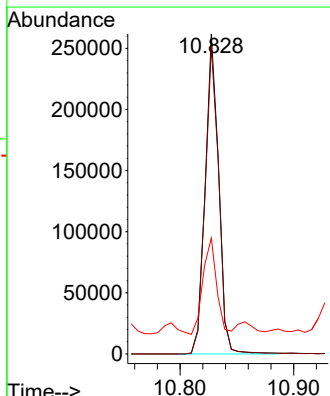
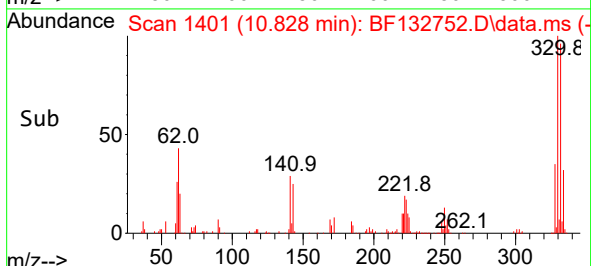
Reviewed By :Christian Giraldo 03/13/2023
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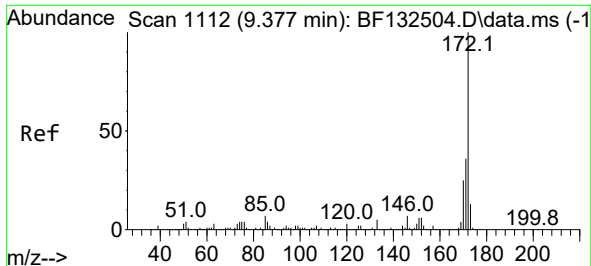


#42
2,4,6-Tribromophenol
Concen: 87.692 ng
RT: 10.828 min Scan# 1401
Delta R.T. 0.000 min
Lab File: BF132752.D
Acq: 10 Mar 2023 20:50



Tgt Ion:330 Resp: 214878
Ion Ratio Lower Upper
330 100
332 97.8 76.2 114.4
141 30.7 28.4 42.6





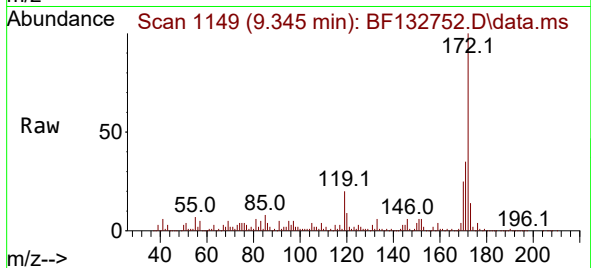
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2-Fluorobiphenyl
Concen: 64.178 ng
RT: 9.345 min Scan# 1112
Delta R.T. 0.000 min
Lab File: BF132752.D
Acq: 10 Mar 2023 20:50

Instrument :

BNA_F

ClientSampleId :

TR-05-030823

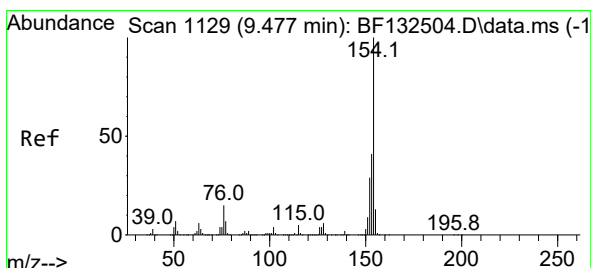
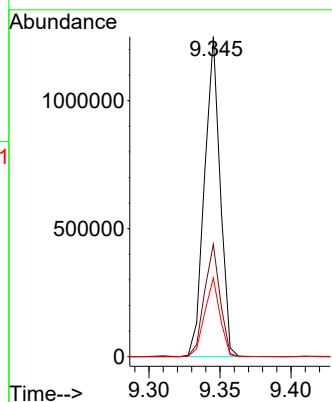
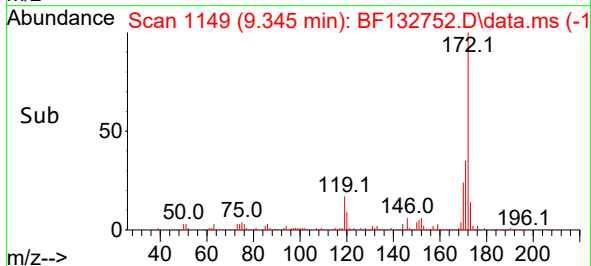


Tgt Ion:172 Resp: 95633
Ion Ratio Lower Upper
172 100
171 35.1 28.8 43.2
170 24.6 19.7 29.5

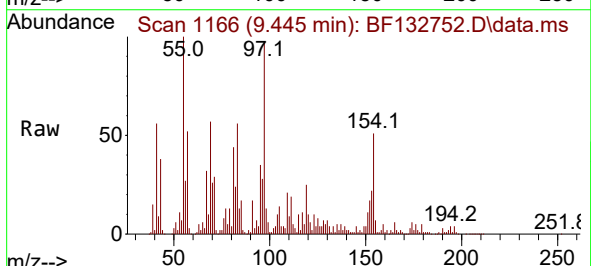
Manual Integrations

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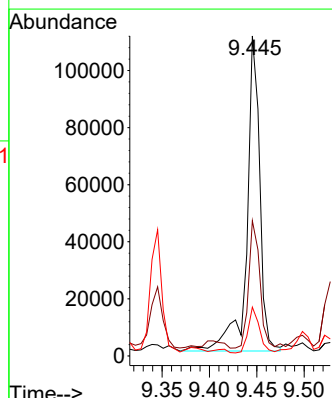
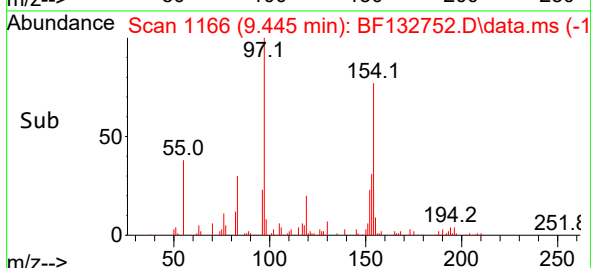
Reviewed By :Christian Giraldo 03/13/2023
Supervised By :Jagrut Upadhyay 03/13/2023

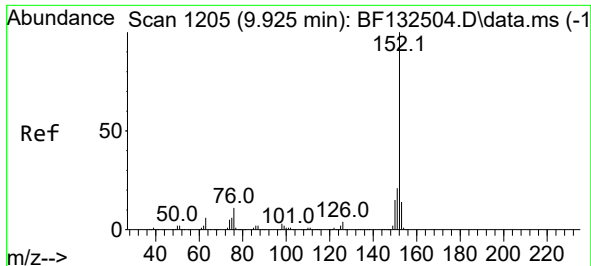


#46
1,1'-Biphenyl
Concen: 6.123 ng
RT: 9.445 min Scan# 1166
Delta R.T. -0.006 min
Lab File: BF132752.D
Acq: 10 Mar 2023 20:50



Tgt Ion:154 Resp: 105155
Ion Ratio Lower Upper
154 100
153 42.2 20.9 60.9
76 15.2 0.0 34.7





#49

Acenaphthylene

Concen: 3.128 ng

RT: 9.892 min Scan# 1242

Delta R.T. -0.006 min

Lab File: BF132752.D

Acq: 10 Mar 2023 20:50

Instrument :

BNA_F

ClientSampleId :

TR-05-030823

Tgt Ion:152 Resp: 67780

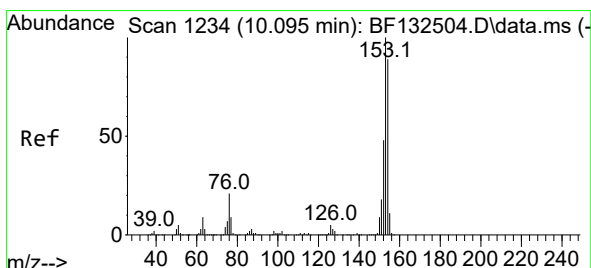
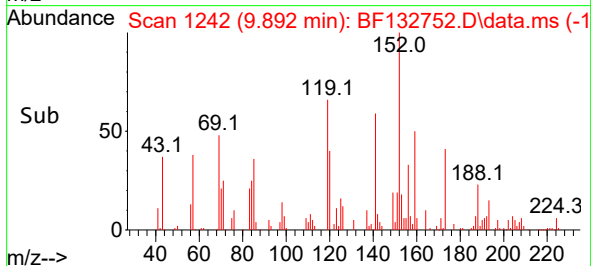
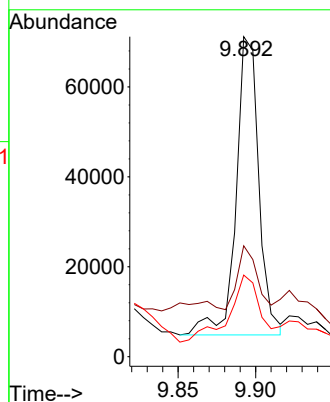
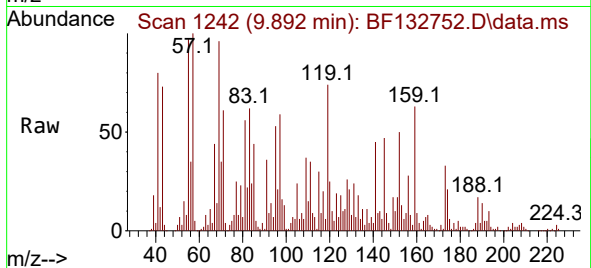
Ion	Ratio	Lower	Upper
152	100		
151	34.7	16.4	24.6
153	25.5	11.0	16.6

Manual Integrations

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Supervised By :Jagrut Upadhyay 03/13/2023



#52

Acenaphthene

Concen: 2.641 ng

RT: 10.069 min Scan# 1272

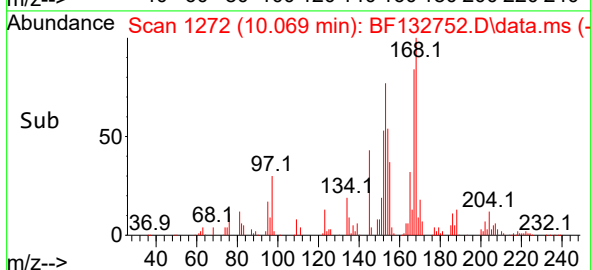
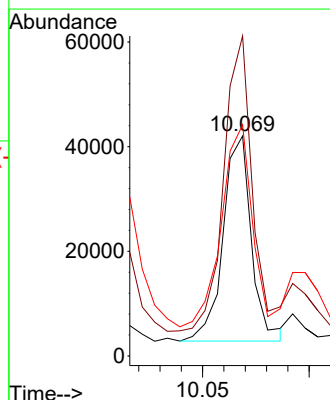
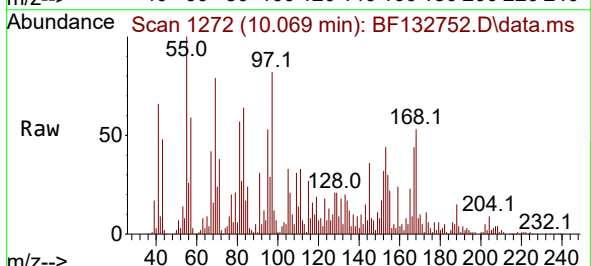
Delta R.T. 0.000 min

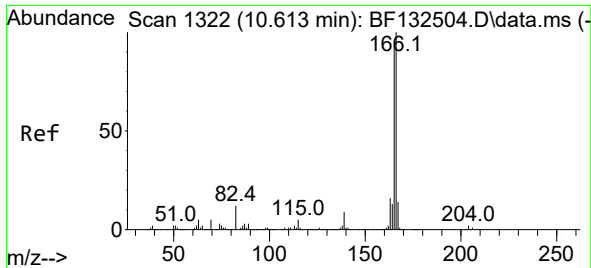
Lab File: BF132752.D

Acq: 10 Mar 2023 20:50

Tgt Ion:154 Resp: 36339

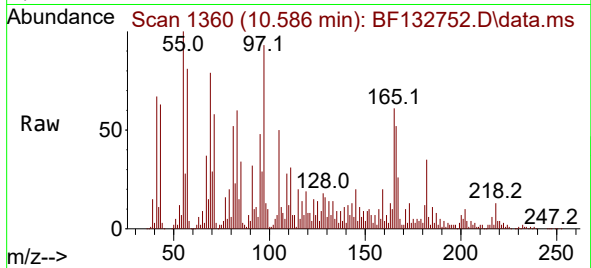
Ion	Ratio	Lower	Upper
154	100		
153	145.4	89.8	134.8
152	105.1	43.3	64.9





#58
Fluorene
Concen: 4.666 ng
RT: 10.586 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF132752.D
Acq: 10 Mar 2023 20:50

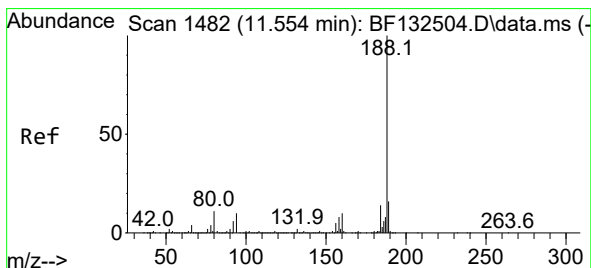
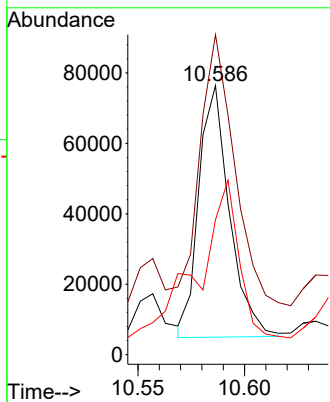
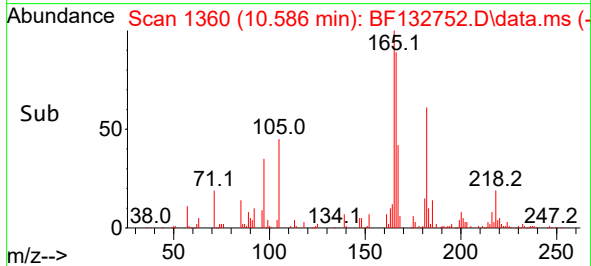
Instrument :
BNA_F
ClientSampleId :
TR-05-030823



Tgt Ion:166 Resp: 71590
Ion Ratio Lower Upper
166 100
165 118.9 74.2 111.4
167 50.1 11.1 16.7

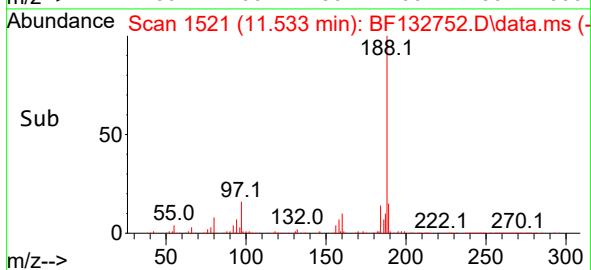
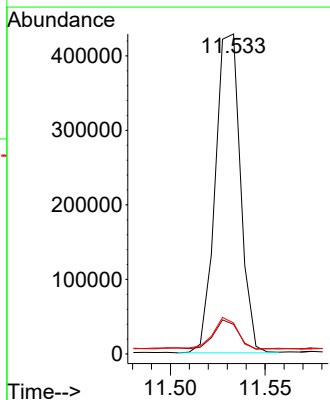
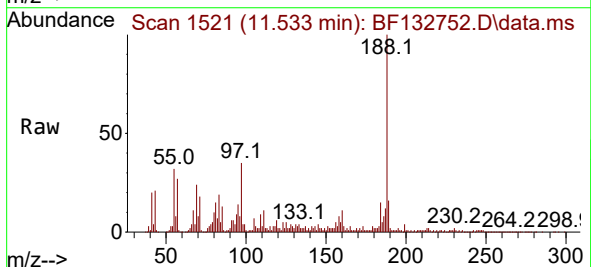
Manual Integrations
APPROVED

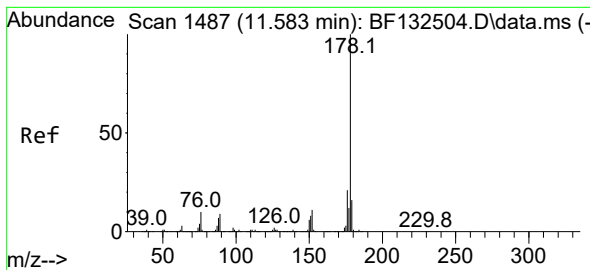
Reviewed By :Christian Giraldo 03/13/2023
Supervised By :Jagrut Upadhyay 03/13/2023



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.533 min Scan# 1521
Delta R.T. 0.006 min
Lab File: BF132752.D
Acq: 10 Mar 2023 20:50

Tgt Ion:188 Resp: 395059
Ion Ratio Lower Upper
188 100
94 9.2 8.3 12.5
80 9.7 8.7 13.1





#71

Phenanthrene

Concen: 13.342 ng

RT: 11.557 min Scan# 11534

Delta R.T. 0.000 min

Lab File: BF132752.D

Acq: 10 Mar 2023 20:50

Instrument :

BNA_F

ClientSampleId :

TR-05-030823

Tgt Ion:178 Resp: 273060

Ion Ratio Lower Upper

178 100

176 19.8 16.5 24.7

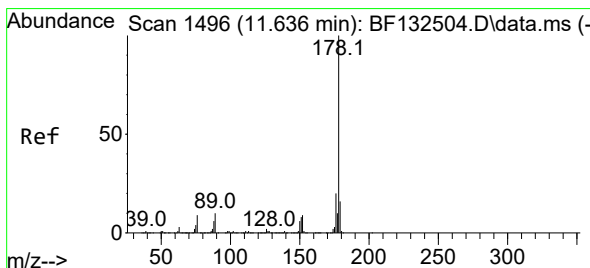
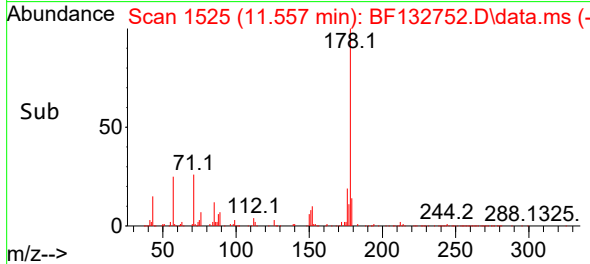
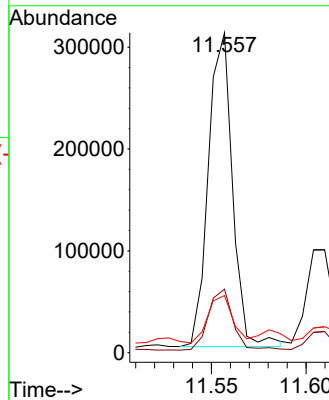
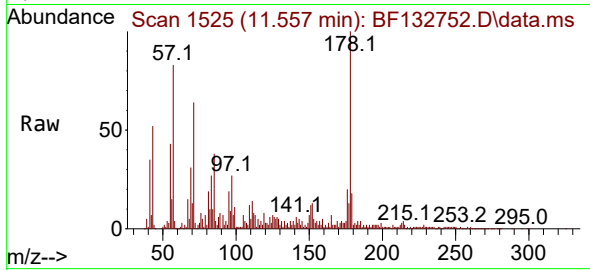
179 17.9 13.0 19.6

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 03/13/2023

Supervised By :Jagrut Upadhyay 03/13/2023



#72

Anthracene

Concen: 4.148 ng m

RT: 11.610 min Scan# 1534

Delta R.T. 0.006 min

Lab File: BF132752.D

Acq: 10 Mar 2023 20:50

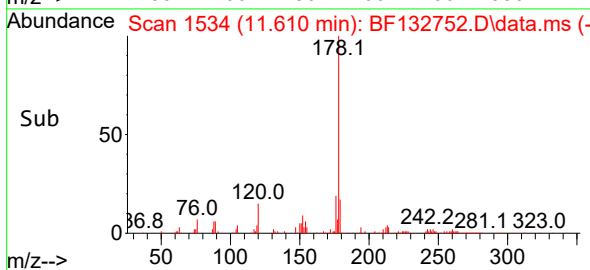
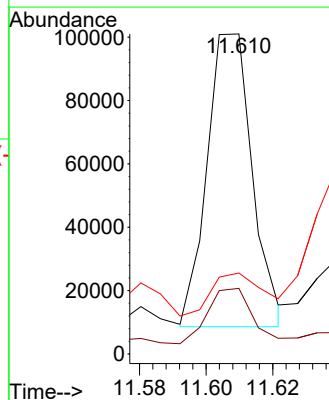
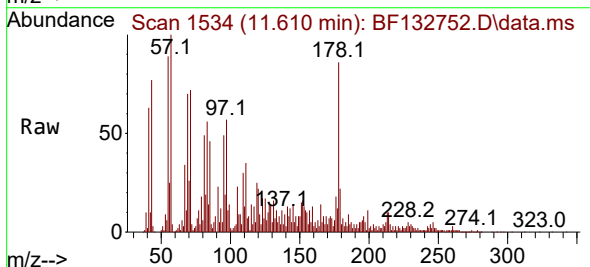
Tgt Ion:178 Resp: 87422

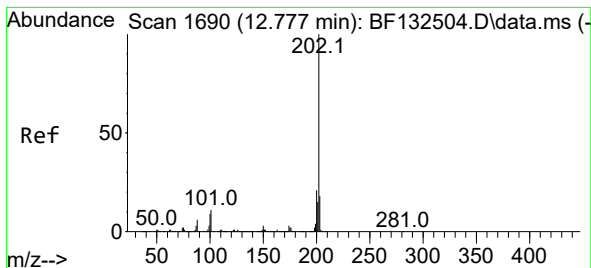
Ion Ratio Lower Upper

178 100

176 20.5 15.6 23.4

179 25.3 12.5 18.7#





#75
Fluoranthene
Concen: 20.420 ng
RT: 12.757 min Scan# 1729
Delta R.T. 0.006 min
Lab File: BF132752.D
Acq: 10 Mar 2023 20:50

Instrument :

BNF

ClientSampleId :

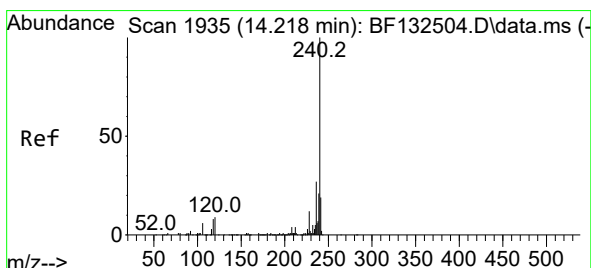
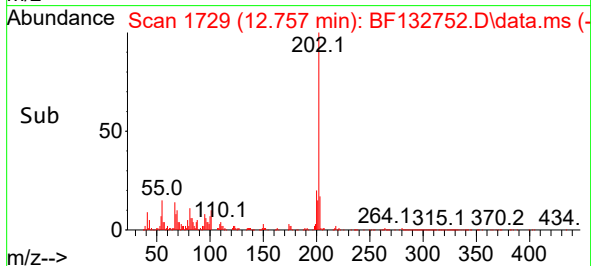
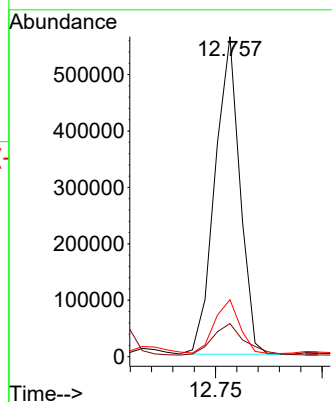
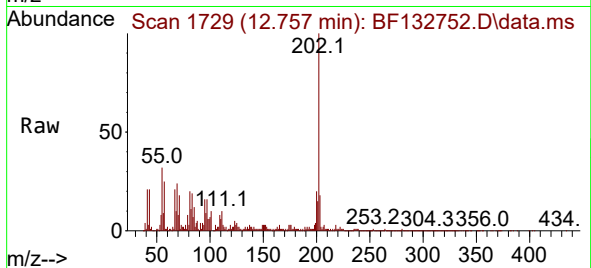
TR-05-030823

Tgt Ion:202 Resp: 45686
Ion Ratio Lower Upper
202 100
101 10.3 0.0 31.4
203 17.8 0.0 38.0

Manual Integrations

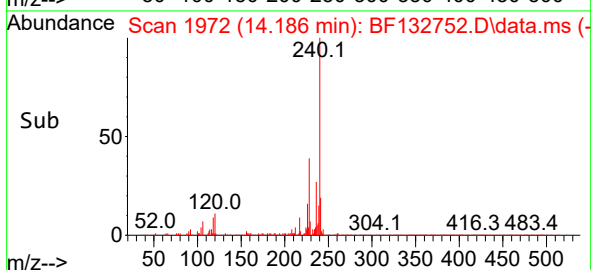
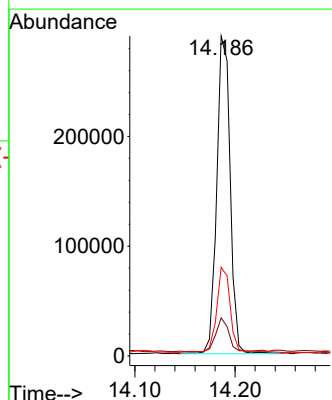
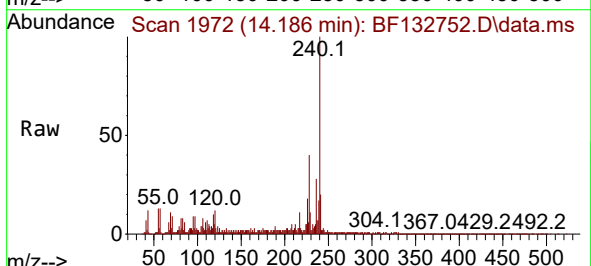
APPROVED

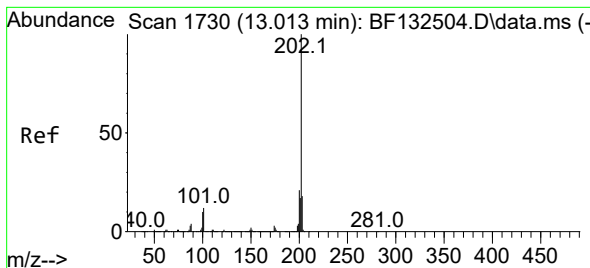
Reviewed By :Christian Giraldo 03/13/2023
Supervised By :Jagrut Upadhyay 03/13/2023



#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.186 min Scan# 1972
Delta R.T. 0.000 min
Lab File: BF132752.D
Acq: 10 Mar 2023 20:50

Tgt Ion:240 Resp: 268512
Ion Ratio Lower Upper
240 100
120 11.9 7.2 10.8#
236 27.6 21.8 32.6





#78

Pyrene

Concen: 23.981 ng

RT: 12.992 min Scan# 1769

Delta R.T. 0.012 min

Lab File: BF132752.D

Acq: 10 Mar 2023 20:50

Instrument :

BNA_F

ClientSampleId :

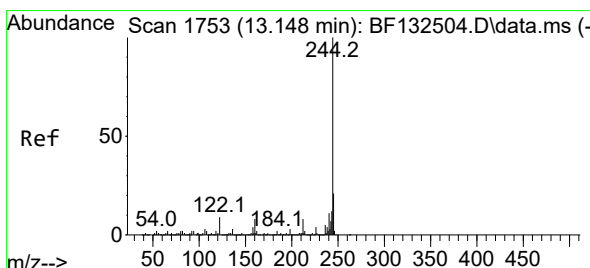
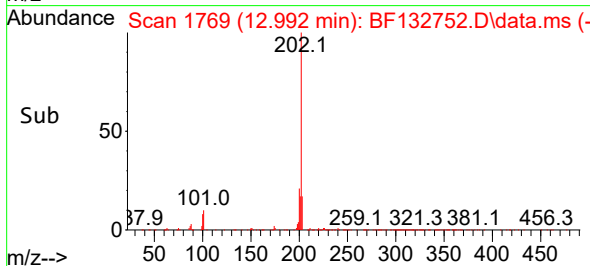
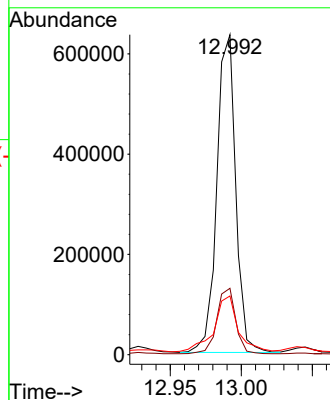
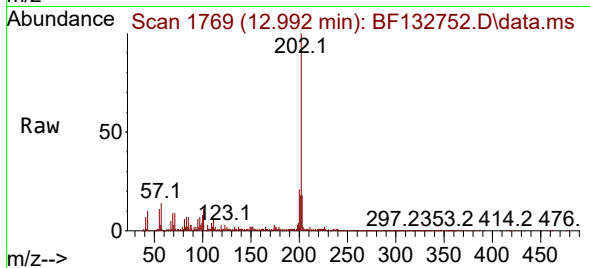
TR-05-030823

Tgt Ion:202 Resp: 585429
 Ion Ratio Lower Upper
 202 100
 200 20.7 17.1 25.7
 203 18.4 14.6 21.8

Manual Integrations

APPROVED

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



#79

Terphenyl-d14

Concen: 69.817 ng

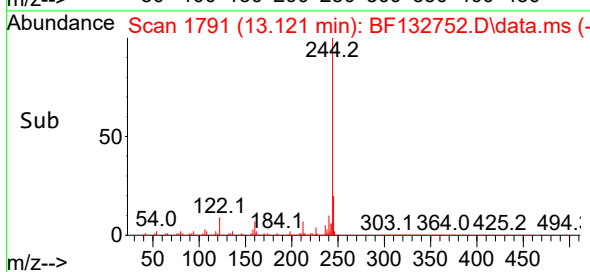
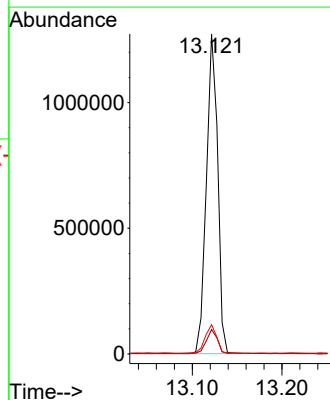
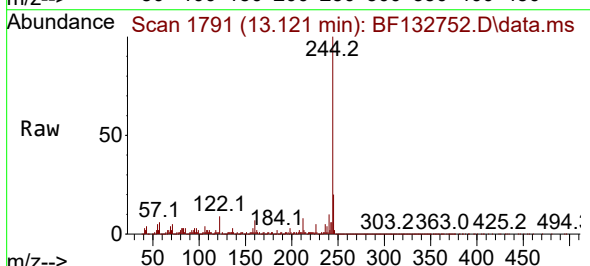
RT: 13.121 min Scan# 1791

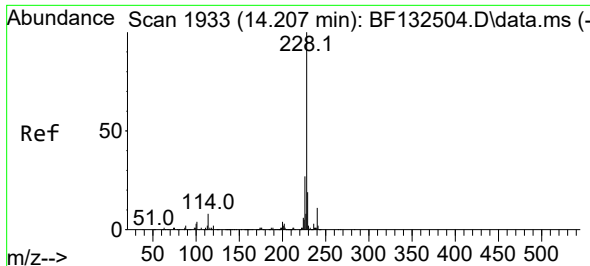
Delta R.T. 0.006 min

Lab File: BF132752.D

Acq: 10 Mar 2023 20:50

Tgt Ion:244 Resp: 1108776
 Ion Ratio Lower Upper
 244 100
 212 7.7 6.5 9.7
 122 9.2 7.5 11.3





#81
Benzo(a)anthracene
Concen: 14.025 ng
RT: 14.180 min Scan# 1971
Delta R.T. 0.006 min
Lab File: BF132752.D
Acq: 10 Mar 2023 20:50

Instrument :

BNF

ClientSampleId :

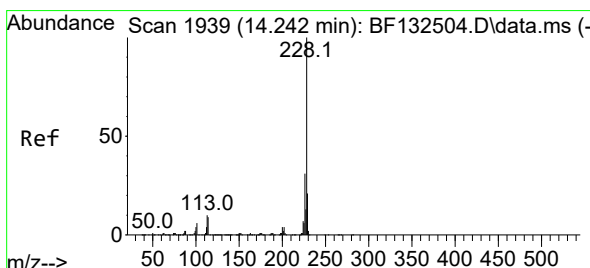
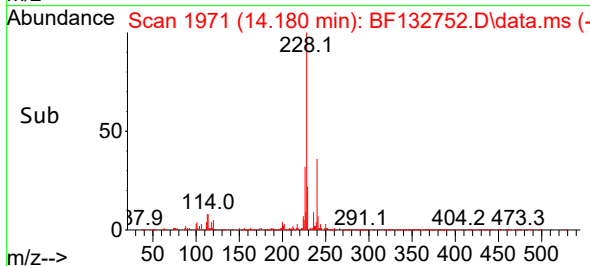
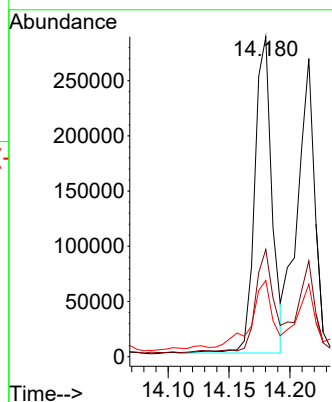
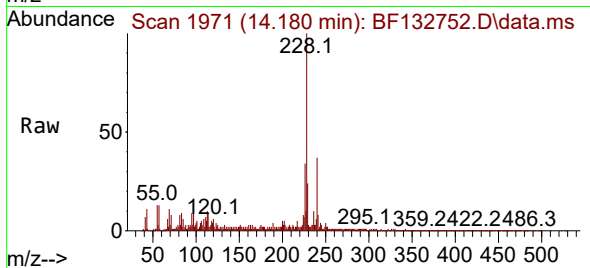
TR-05-030823

Tgt Ion:228 Resp: 28177
Ion Ratio Lower Upper
228 100
226 33.5 21.7 32.5
229 23.8 15.4 23.2

Manual Integrations

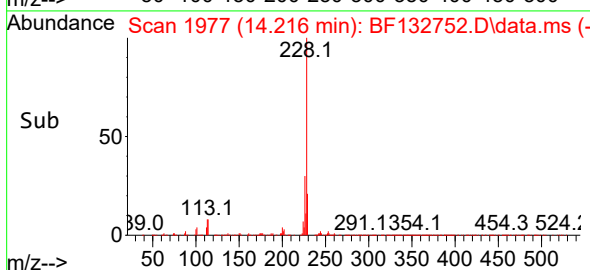
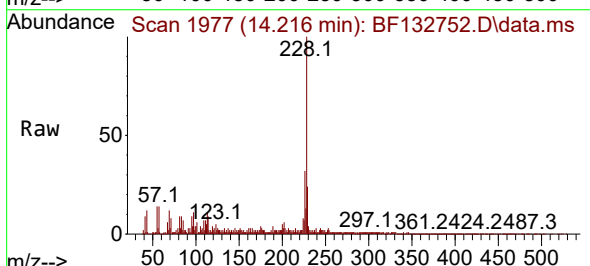
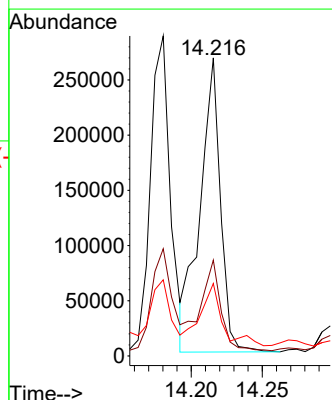
APPROVED

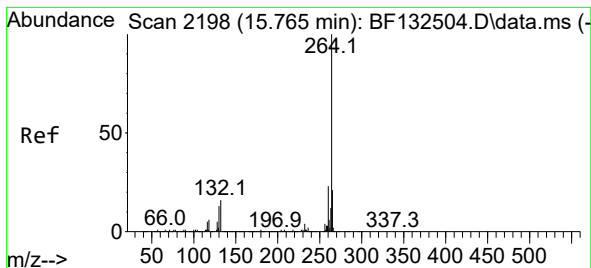
Reviewed By :Christian Giraldo 03/13/2023
Supervised By :Jagrut Upadhyay 03/13/2023



#83
Chrysene
Concen: 14.311 ng
RT: 14.216 min Scan# 1977
Delta R.T. 0.000 min
Lab File: BF132752.D
Acq: 10 Mar 2023 20:50

Tgt Ion:228 Resp: 268870
Ion Ratio Lower Upper
228 100
226 32.1 25.0 37.6
229 24.3 16.4 24.6





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.739 min Scan# 21

Delta R.T. 0.012 min

Lab File: BF132752.D

Acq: 10 Mar 2023 20:50

Instrument :

BNA_F

ClientSampleId :

TR-05-030823

Tgt Ion:264 Resp: 227339

Ion Ratio Lower Upper

264 100

260 26.4 18.8 28.2

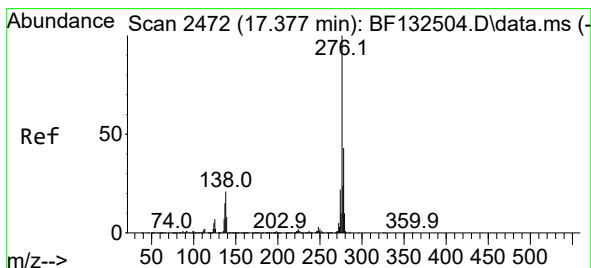
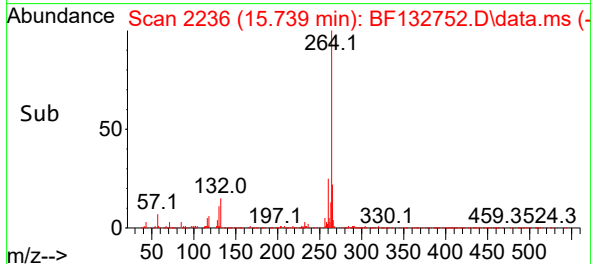
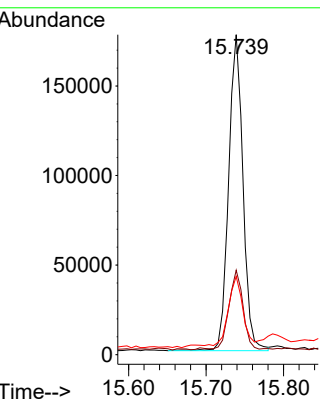
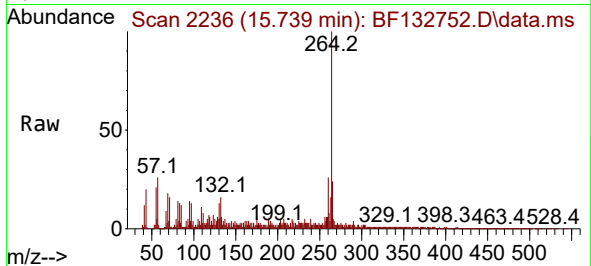
265 24.4 17.1 25.7

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 03/13/2023

Supervised By :Jagrut Upadhyay 03/13/2023



#87

Indeno(1,2,3-cd)pyrene

Concen: 8.162 ng

RT: 17.339 min Scan# 2508

Delta R.T. 0.012 min

Lab File: BF132752.D

Acq: 10 Mar 2023 20:50

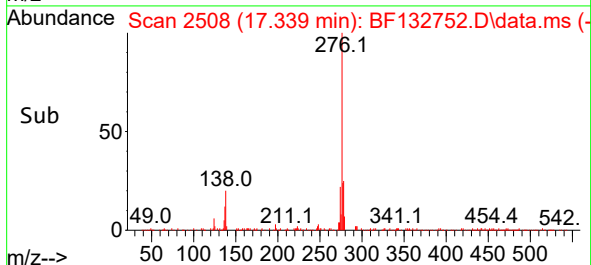
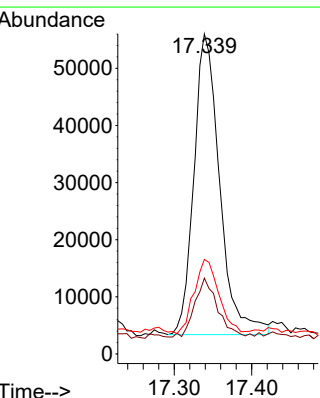
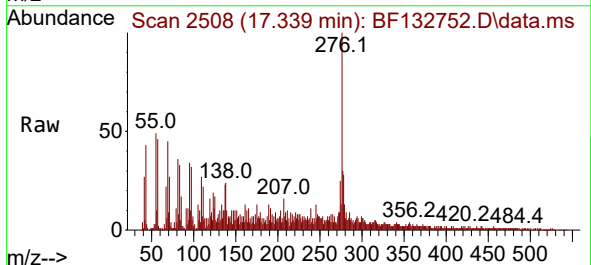
Tgt Ion:276 Resp: 121577

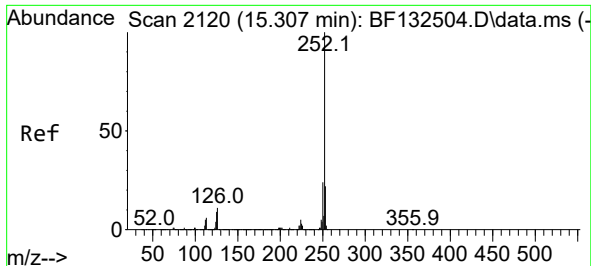
Ion Ratio Lower Upper

276 100

138 17.3 19.0 28.4#

277 23.7 20.0 30.0





#88
Benzo(b)fluoranthene
Concen: 20.664 ng m
RT: 15.274 min Scan# 2117
Delta R.T. 0.006 min
Lab File: BF132752.D
Acq: 10 Mar 2023 20:50

Instrument :

BNF

ClientSampleId :

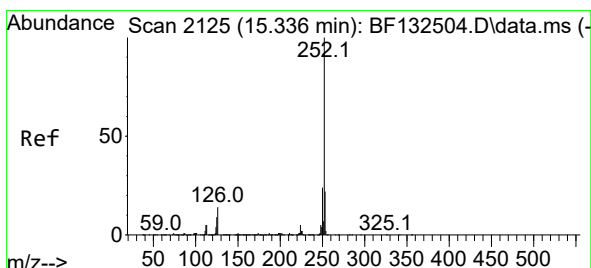
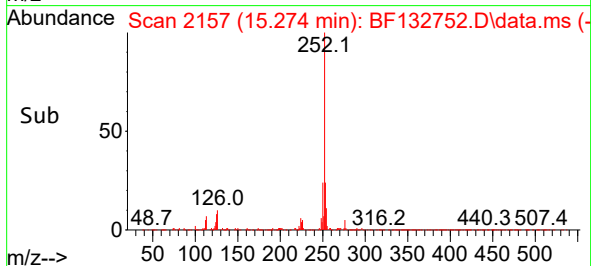
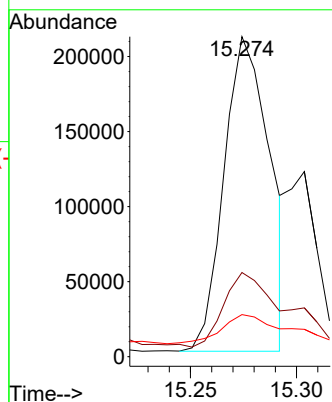
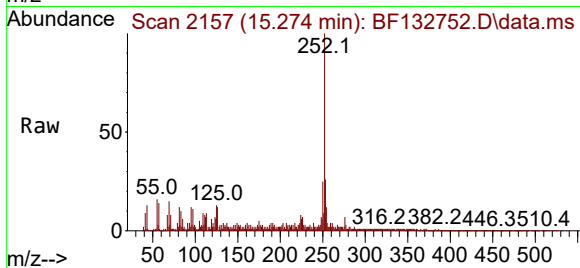
TR-05-030823

Tgt Ion:252 Resp: 314820
Ion Ratio Lower Upper
252 100
253 26.3 17.4 26.0#
125 13.1 7.0 10.6#

Manual Integrations

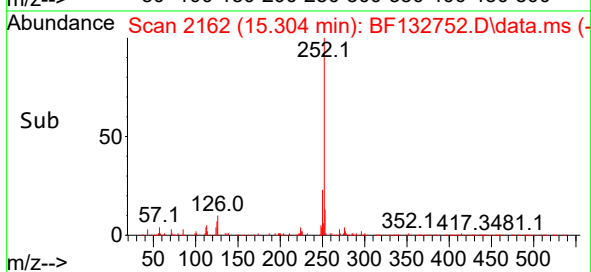
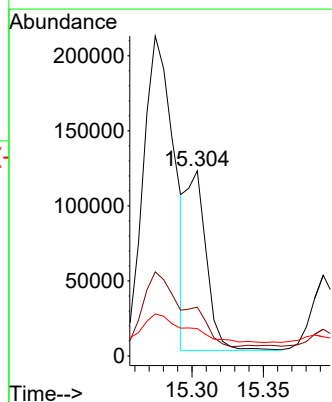
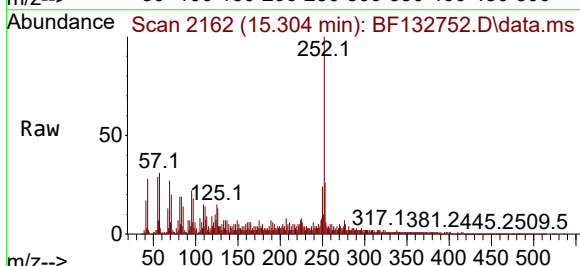
APPROVED

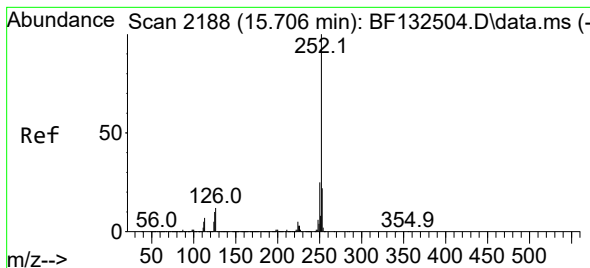
Reviewed By :Christian Giraldo 03/13/2023
Supervised By :Jagrut Upadhyay 03/13/2023



#89
Benzo(k)fluoranthene
Concen: 7.803 ng m
RT: 15.304 min Scan# 2162
Delta R.T. 0.000 min
Lab File: BF132752.D
Acq: 10 Mar 2023 20:50

Tgt Ion:252 Resp: 116340
Ion Ratio Lower Upper
252 100
253 26.3 17.5 26.3#
125 14.8 7.2 10.8#





#90

Benzo(a)pyrene

Concen: 16.364 ng

RT: 15.668 min Scan# 2188

Delta R.T. 0.006 min

Lab File: BF132752.D

Acq: 10 Mar 2023 20:50

Instrument :

BNA_F

ClientSampleId :

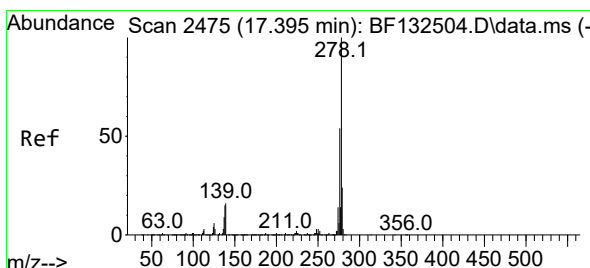
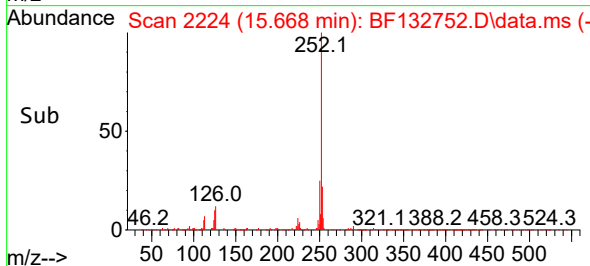
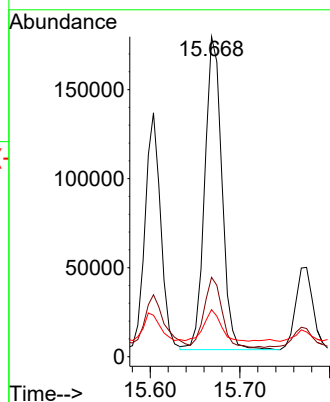
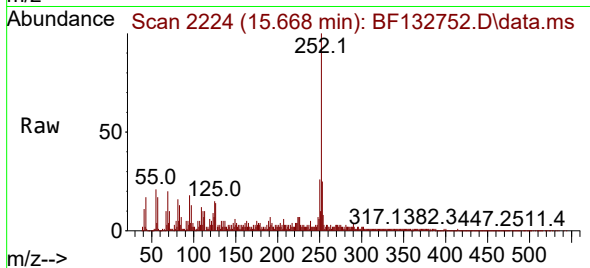
TR-05-030823

Tgt Ion:252 Resp: 23333
 Ion Ratio Lower Upper
 252 100
 253 24.8 17.2 25.8
 125 14.7 8.0 12.0

Manual Integrations

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



#91

Dibenzo(a,h)anthracene

Concen: 2.602 ng

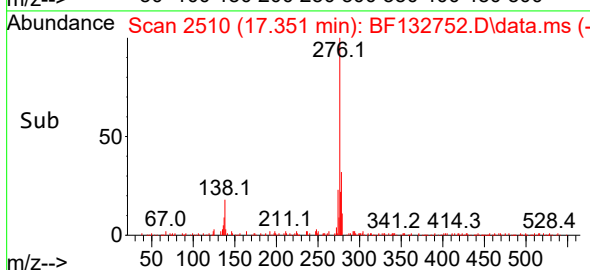
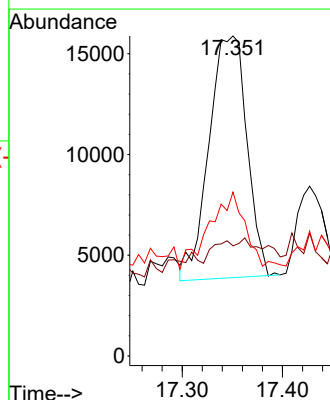
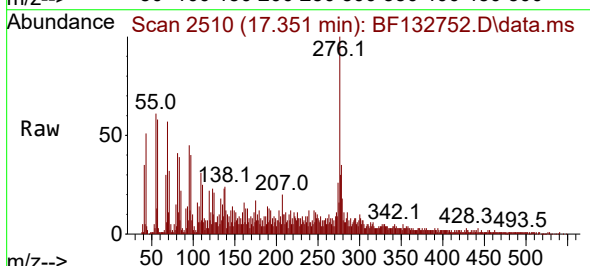
RT: 17.351 min Scan# 2510

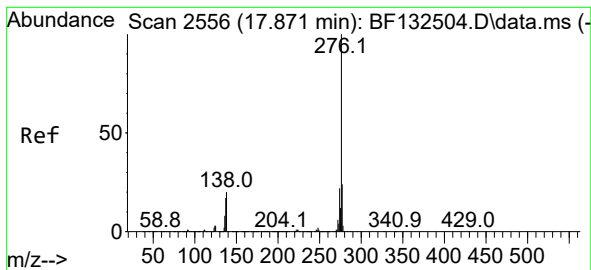
Delta R.T. 0.006 min

Lab File: BF132752.D

Acq: 10 Mar 2023 20:50

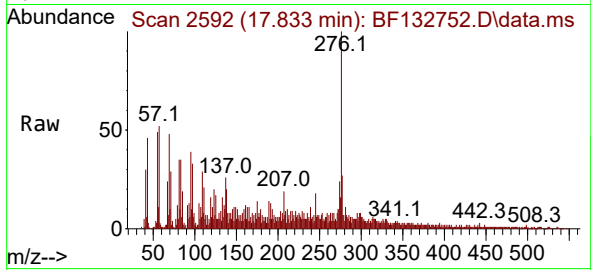
Tgt Ion:278 Resp: 31584
 Ion Ratio Lower Upper
 278 100
 139 34.4 13.0 19.4#
 279 51.2 19.0 28.4#





#92
Benzo(g,h,i)perylene
Concen: 9.709 ng
RT: 17.833 min Scan# 21
Delta R.T. 0.018 min
Lab File: BF132752.D
Acq: 10 Mar 2023 20:50

Instrument :
BNA_F
ClientSampleId :
TR-05-030823



Tgt Ion: 276 Resp: 114894
Ion Ratio Lower Upper
276 100
277 26.8 18.9 28.3
138 20.4 16.2 24.4

Manual Integrations
APPROVED

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

