

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051523\
 Data File : BF133395.D
 Acq On : 15 May 2023 21:28
 Operator : CG\JU
 Sample : 02760-03
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 HR-4-051123

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 05/16/2023
 Supervised By : Yogesh Patel 05/16/2023

Quant Time: May 16 03:15:45 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF042123.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu May 11 16:40:17 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.722	152	179081	20.000	ng	0.00
21) Naphthalene-d8	8.004	136	650776	20.000	ng	0.00
39) Acenaphthene-d10	9.757	164	296610	20.000	ng	0.00
64) Phenanthrene-d10	11.239	188	541325	20.000	ng	0.00
76) Chrysene-d12	13.880	240	339314	20.000	ng	# 0.00
86) Perylene-d12	15.309	264	278193	20.000	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.334	112	1297021	109.408	ng	0.00
7) Phenol-d6	6.369	99	1517392	103.123	ng	0.00
23) Nitrobenzene-d5	7.286	82	881932	73.149	ng	0.00
42) 2,4,6-Tribromophenol	10.551	330	324580	108.811	ng	0.00
45) 2-Fluorobiphenyl	9.080	172	1504843	84.879	ng	0.00
79) Terphenyl-d14	12.839	244	1666714	84.716	ng	0.01
Target Compounds						Qvalue
71) Phenanthrene	11.263	178	148267	5.096	ng	99
75) Fluoranthene	12.457	202	239560	8.204	ng	97
78) Pyrene	12.686	202	280096	9.630	ng	99
81) Benzo(a)anthracene	13.874	228	112190	4.808	ng	92
83) Chrysene	13.909	228	103134m	4.421	ng	
87) Indeno(1,2,3-cd)pyrene	16.692	276	49229	3.111	ng	# 87
88) Benzo(b)fluoranthene	14.898	252	109179m	6.169	ng	
89) Benzo(k)fluoranthene	14.927	252	38463m	2.192	ng	
90) Benzo(a)pyrene	15.245	252	80869	5.020	ng	# 86
92) Benzo(g,h,i)perylene	17.109	276	48932	3.755	ng	# 85

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

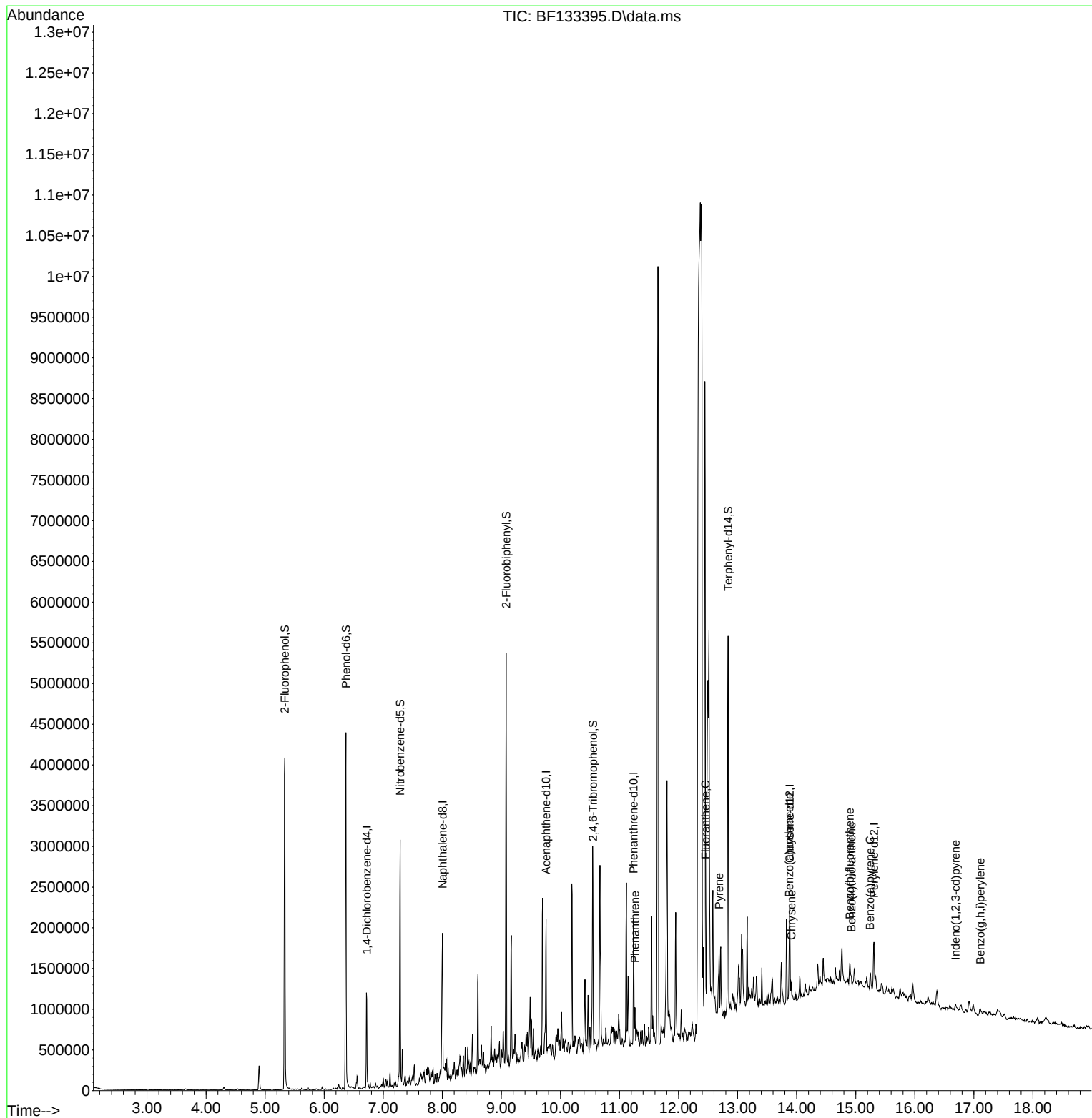
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051523\
Data File : BF133395.D
Acq On : 15 May 2023 21:28
Operator : CG\JU
Sample : 02760-03
Misc :
ALS Vial : 17 Sample Multiplier: 1

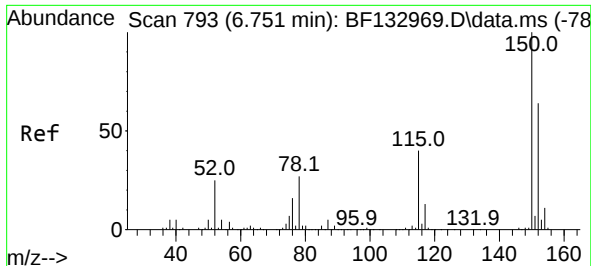
Instrument :
BNA_F
ClientSampleId :
HR-4-051123

Quant Time: May 16 03:15:45 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF042123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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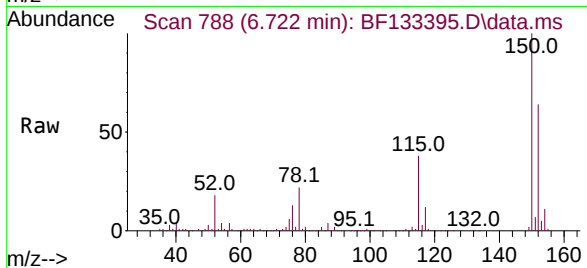
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1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.722 min Scan# 793
Delta R.T. -0.000 min
Lab File: BF133395.D
Acq: 15 May 2023 21:28

Instrument :

BNA_F

ClientSampleId :

HR-4-051123

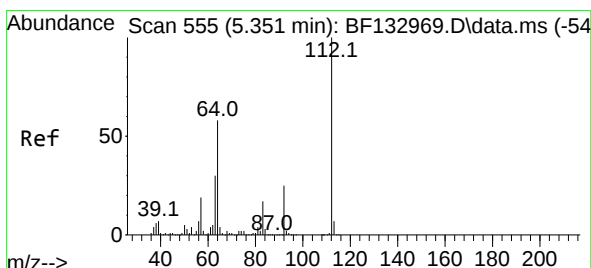
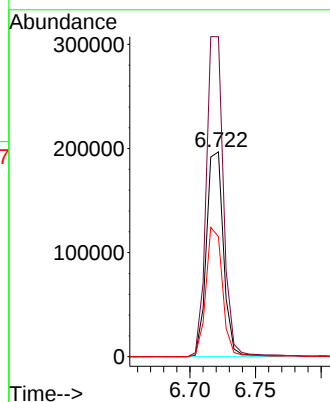
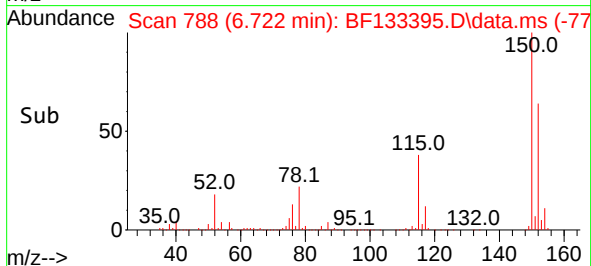


Tgt Ion:152 Resp: 17908
Ion Ratio Lower Upper
152 100
150 156.3 124.8 187.2
115 58.6 49.9 74.9

Manual Integrations

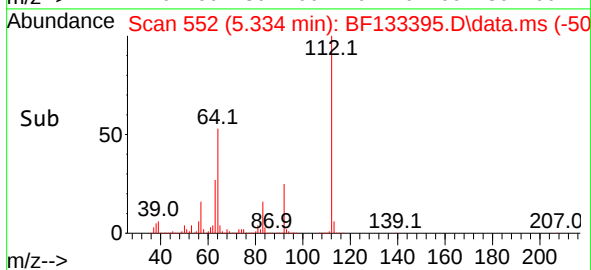
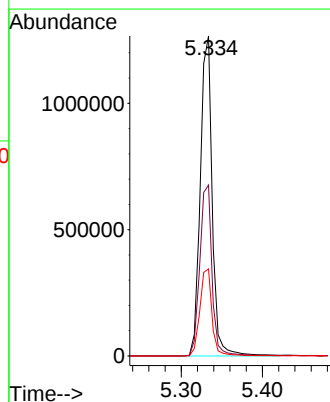
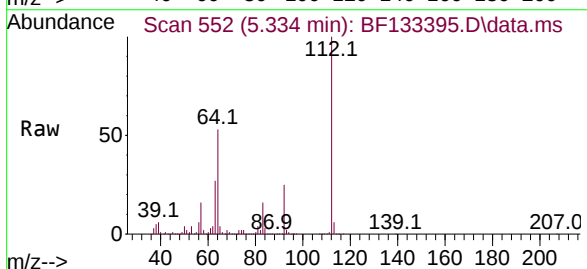
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Reviewed By :Christian Giraldo 05/16/2023
Supervised By :Yogesh Patel 05/16/2023



#5
2-Fluorophenol
Concen: 109.408 ng
RT: 5.334 min Scan# 552
Delta R.T. 0.006 min
Lab File: BF133395.D
Acq: 15 May 2023 21:28

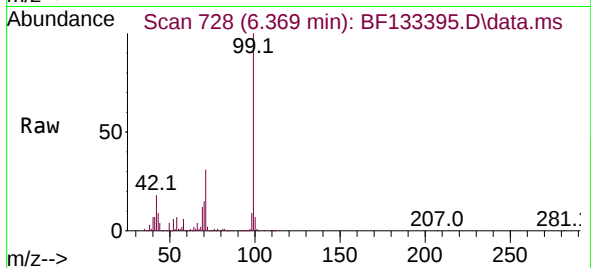
Tgt Ion:112 Resp: 1297021
Ion Ratio Lower Upper
112 100
64 53.4 46.8 70.2
63 27.2 23.8 35.8





#7
Phenol-d6
Concen: 103.123 ng
RT: 6.369 min Scan# 71
Delta R.T. -0.000 min
Lab File: BF133395.D
Acq: 15 May 2023 21:28

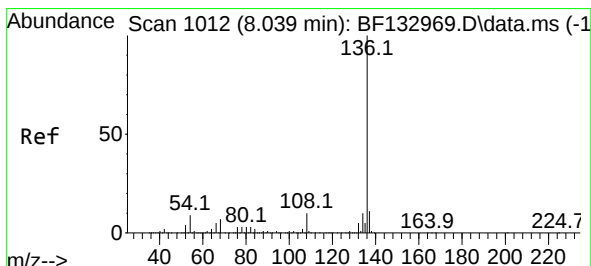
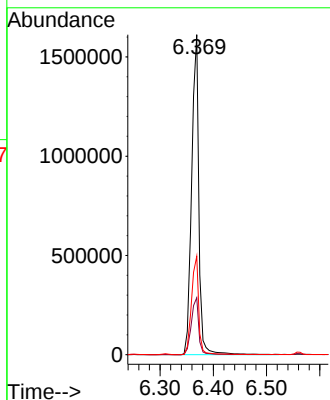
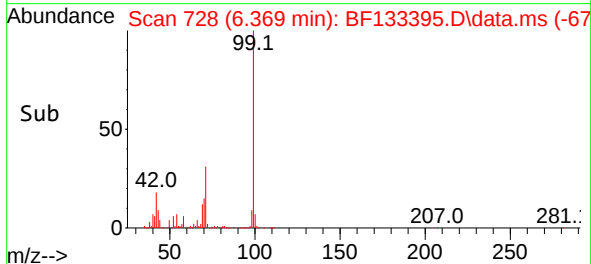
Instrument :
BNA_F
ClientSampleId :
HR-4-051123



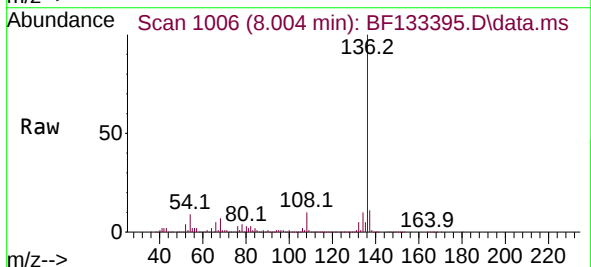
Tgt Ion: 99 Resp: 1517392
Ion Ratio Lower Upper
99 100
42 17.8 16.3 24.5
71 30.8 25.6 38.4

Manual Integrations
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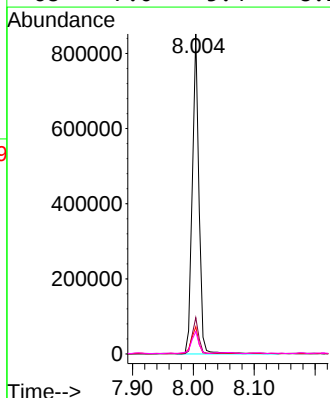
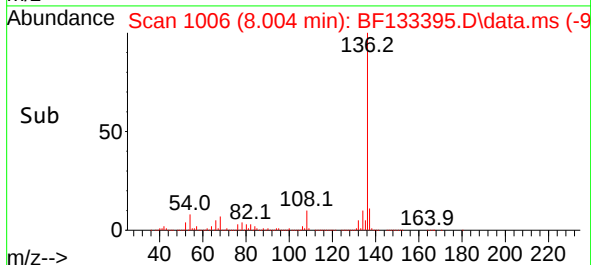
Reviewed By :Christian Giraldo 05/16/2023
Supervised By :Yogesh Patel 05/16/2023

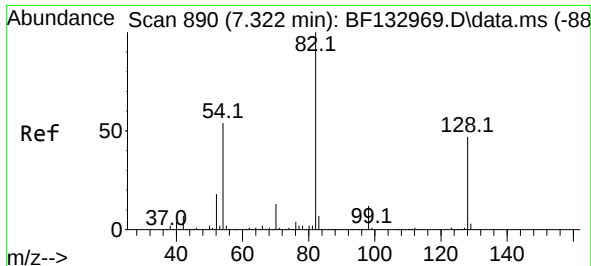


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.004 min Scan# 1006
Delta R.T. -0.006 min
Lab File: BF133395.D
Acq: 15 May 2023 21:28



Tgt Ion:136 Resp: 650776
Ion Ratio Lower Upper
136 100
137 11.3 8.6 13.0
54 8.5 7.0 10.4
68 7.0 5.4 8.2





#23

Nitrobenzene-d5

Concen: 73.149 ng

RT: 7.286 min Scan# 881

Delta R.T. -0.006 min

Lab File: BF133395.D

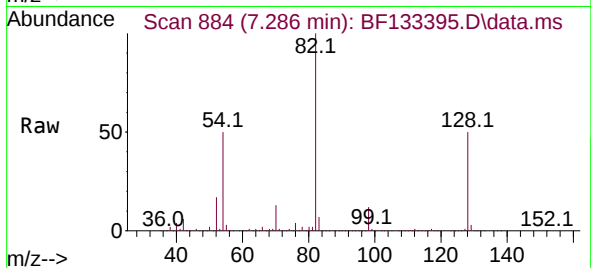
Acq: 15 May 2023 21:28

Instrument :

BNA_F

ClientSampleId :

HR-4-051123

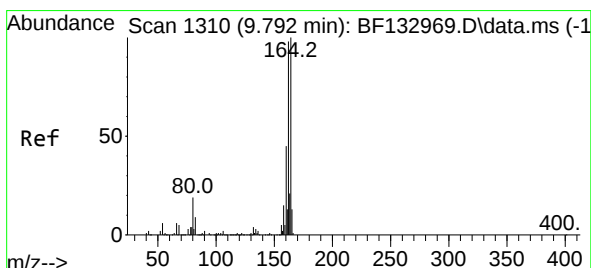
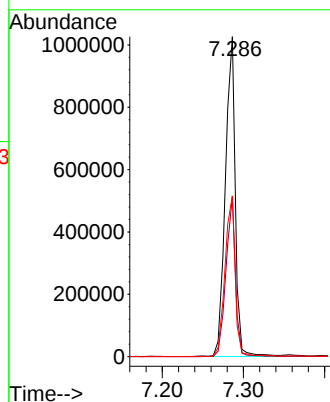
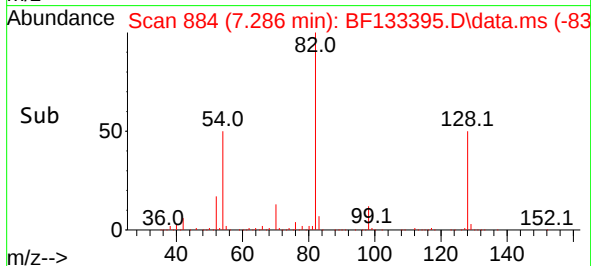


Tgt Ion: 82 Resp: 88193

Ion	Ratio	Lower	Upper
82	100		
128	50.0	37.7	56.5
54	50.3	43.0	64.4

Manual Integrations
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Supervised By :Yogesh Patel 05/16/2023



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.757 min Scan# 1304

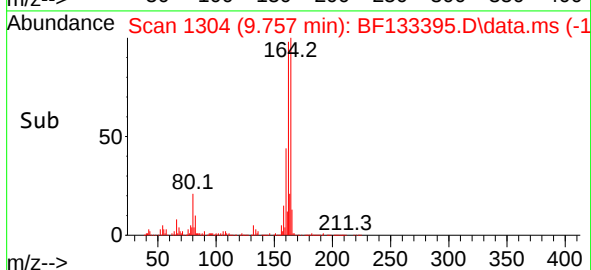
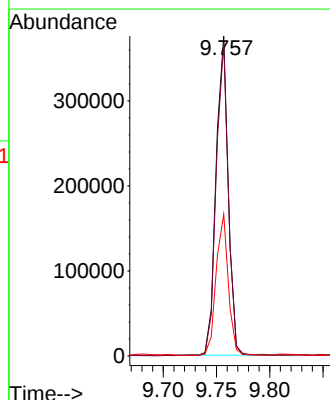
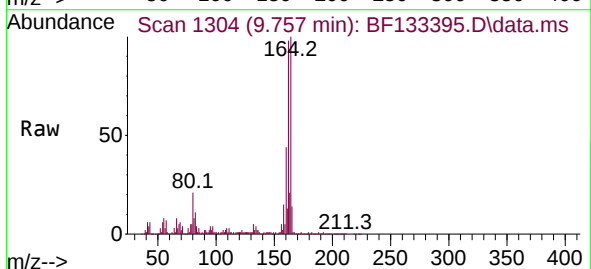
Delta R.T. -0.000 min

Lab File: BF133395.D

Acq: 15 May 2023 21:28

Tgt Ion:164 Resp: 296610

Ion	Ratio	Lower	Upper
164	100		
162	97.8	78.7	118.1
160	44.3	35.8	53.6





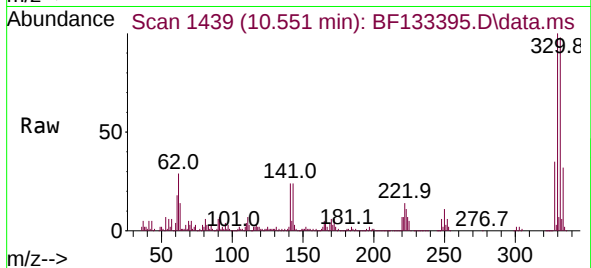
#42
2,4,6-Tribromophenol
Concen: 108.811 ng
RT: 10.551 min Scan# 1444
Delta R.T. -0.000 min
Lab File: BF133395.D
Acq: 15 May 2023 21:28

Instrument :

BNA_F

ClientSampleId :

HR-4-051123

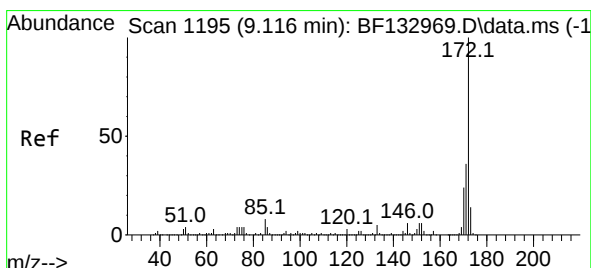
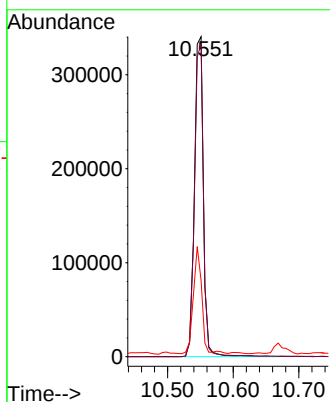
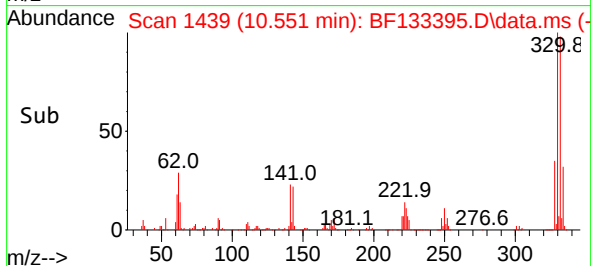


Tgt Ion:330 Resp: 324580
Ion Ratio Lower Upper
330 100
332 96.3 77.1 115.7
141 30.6 25.8 38.8

Manual Integrations

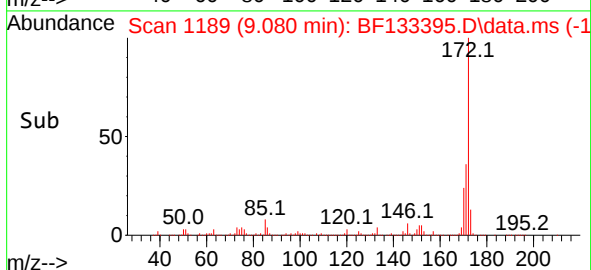
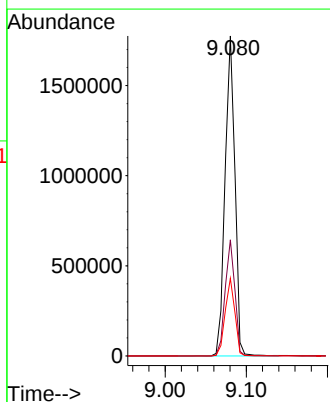
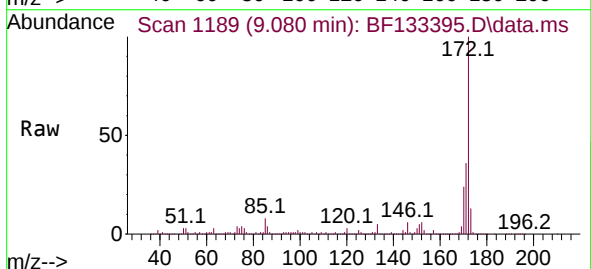
APPROVED

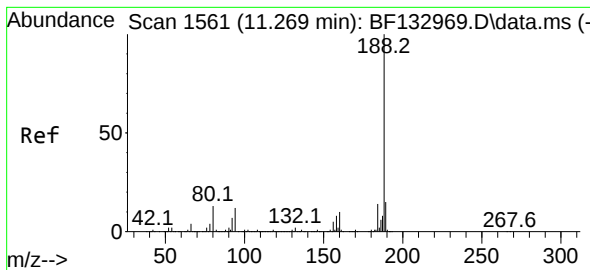
Reviewed By :Christian Giraldo 05/16/2023
Supervised By :Yogesh Patel 05/16/2023



#45
2-Fluorobiphenyl
Concen: 84.879 ng
RT: 9.080 min Scan# 1189
Delta R.T. -0.006 min
Lab File: BF133395.D
Acq: 15 May 2023 21:28

Tgt Ion:172 Resp: 1504843
Ion Ratio Lower Upper
172 100
171 36.3 28.8 43.2
170 24.3 19.4 29.2





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.239 min Scan# 1560
Delta R.T. -0.000 min
Lab File: BF133395.D
Acq: 15 May 2023 21:28

Instrument :

BNA_F

ClientSampleId :

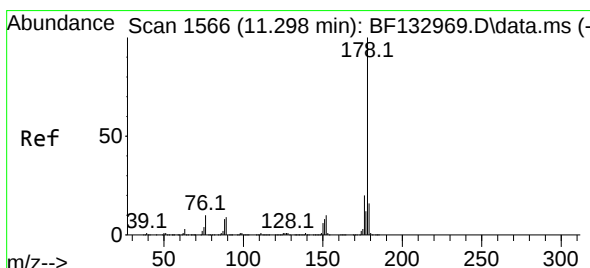
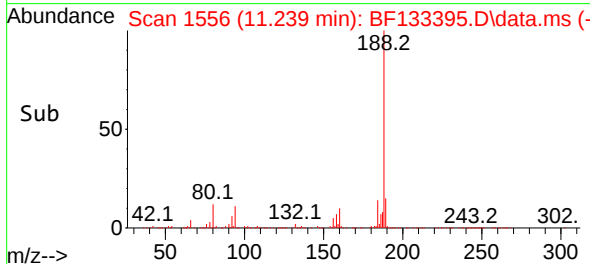
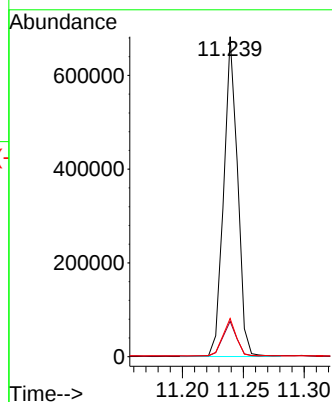
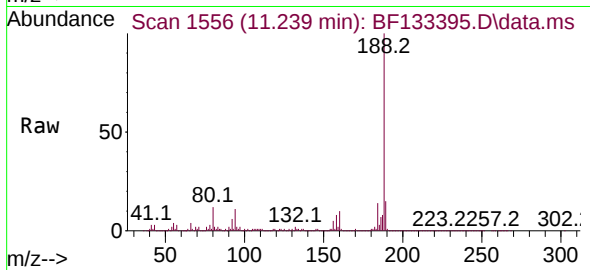
HR-4-051123

Tgt Ion:188 Resp: 54132
Ion Ratio Lower Upper
188 100
94 11.1 9.7 14.5
80 12.0 10.4 15.6

Manual Integrations

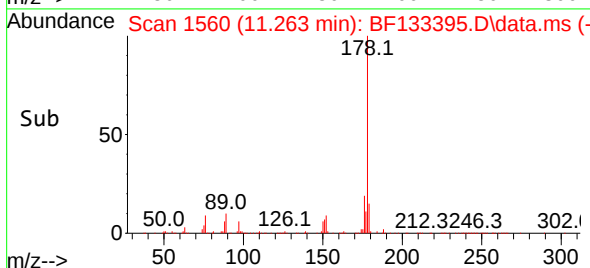
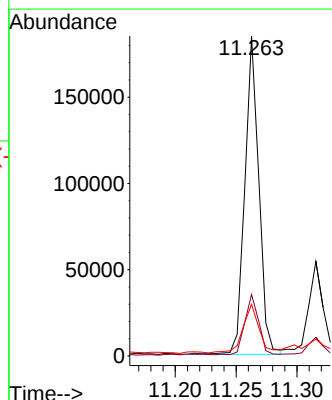
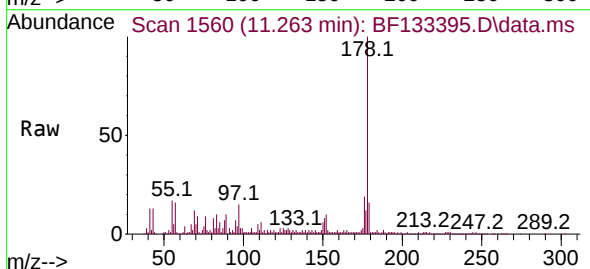
APPROVED

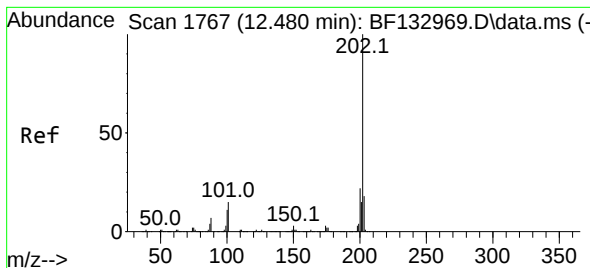
Reviewed By :Christian Giraldo 05/16/2023
Supervised By :Yogesh Patel 05/16/2023



#71
Phenanthrene
Concen: 5.096 ng
RT: 11.263 min Scan# 1560
Delta R.T. -0.006 min
Lab File: BF133395.D
Acq: 15 May 2023 21:28

Tgt Ion:178 Resp: 148267
Ion Ratio Lower Upper
178 100
176 19.2 15.9 23.9
179 16.2 12.5 18.7





#75

Fluoranthene

Concen: 8.204 ng

RT: 12.457 min Scan# 1

Delta R.T. 0.006 min

Lab File: BF133395.D

Acq: 15 May 2023 21:28

Instrument :

BNA_F

ClientSampleId :

HR-4-051123

Tgt Ion:202 Resp: 239560

Ion Ratio Lower Upper

202 100

101 17.7 0.0 35.3

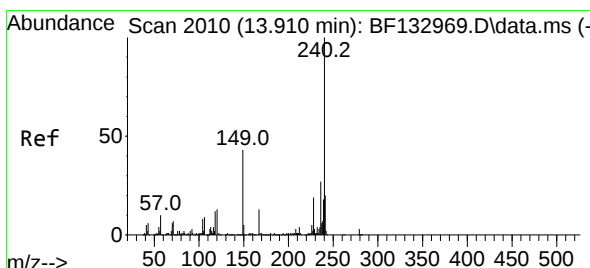
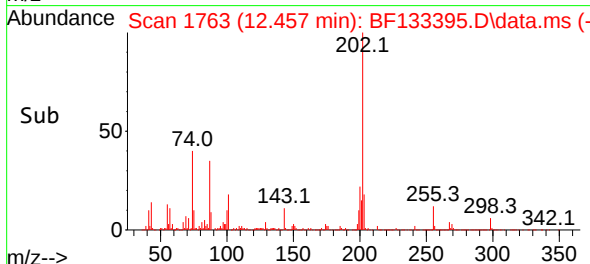
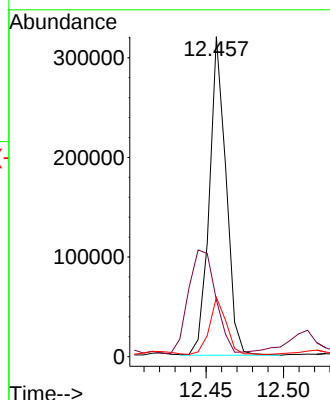
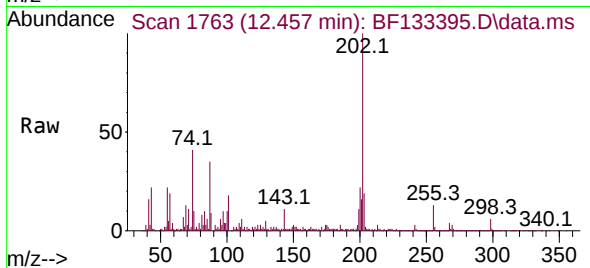
203 18.5 0.0 38.1

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 05/16/2023

Supervised By :Yogesh Patel 05/16/2023



#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.880 min Scan# 2005

Delta R.T. -0.000 min

Lab File: BF133395.D

Acq: 15 May 2023 21:28

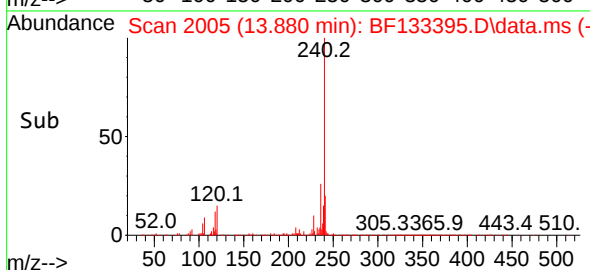
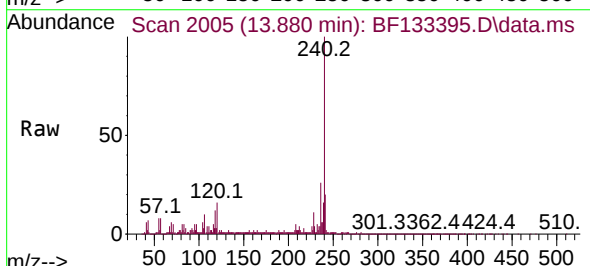
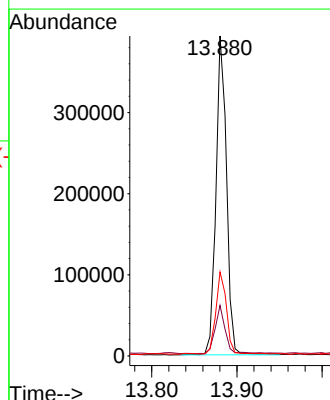
Tgt Ion:240 Resp: 339314

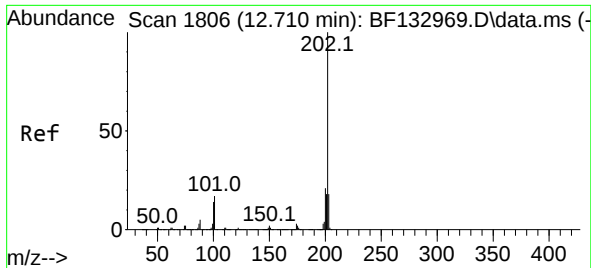
Ion Ratio Lower Upper

240 100

120 15.8 10.5 15.7#

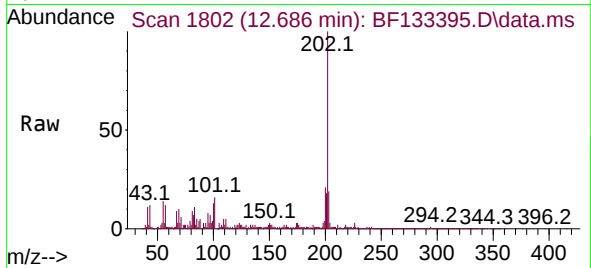
236 26.3 21.5 32.3





#78
Pyrene
Concen: 9.630 ng
RT: 12.686 min Scan# 1806
Delta R.T. 0.006 min
Lab File: BF133395.D
Acq: 15 May 2023 21:28

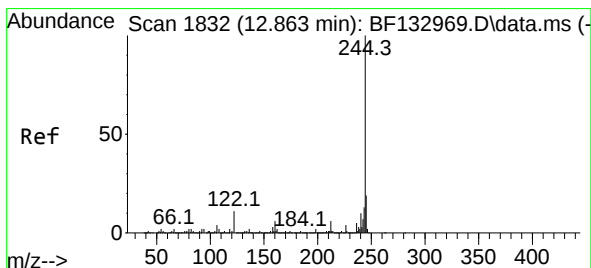
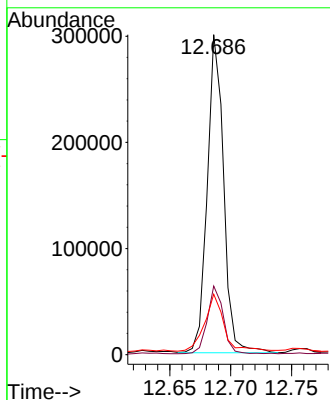
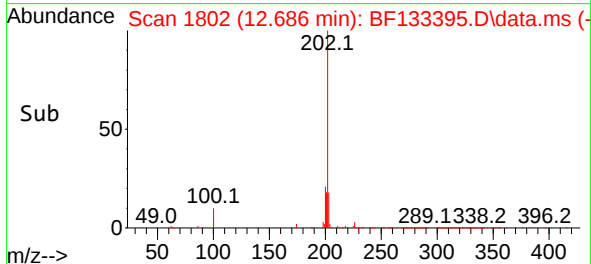
Instrument :
BNA_F
ClientSampleId :
HR-4-051123



Tgt Ion:202 Resp: 280090
Ion Ratio Lower Upper
202 100
200 21.5 17.1 25.7
203 18.9 14.1 21.1

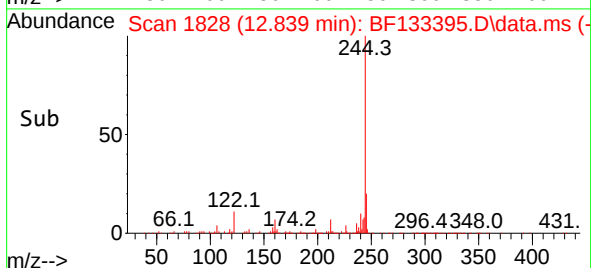
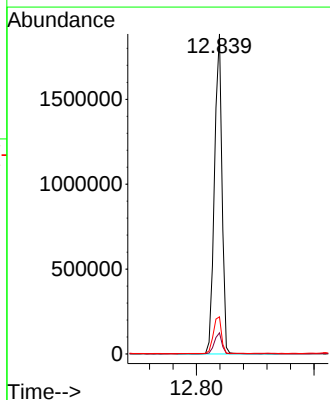
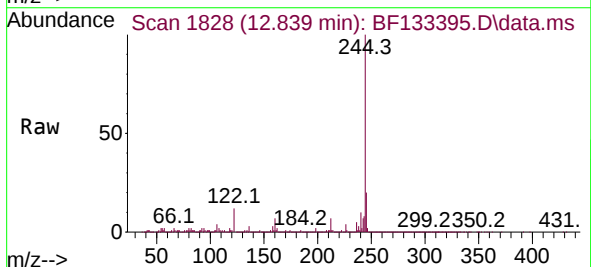
Manual Integrations
APPROVED

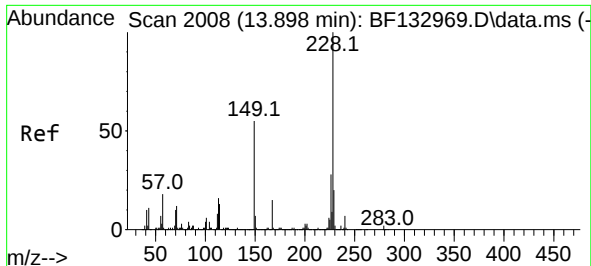
Reviewed By :Christian Giraldo 05/16/2023
Supervised By :Yogesh Patel 05/16/2023



#79
Terphenyl-d14
Concen: 84.716 ng
RT: 12.839 min Scan# 1828
Delta R.T. 0.012 min
Lab File: BF133395.D
Acq: 15 May 2023 21:28

Tgt Ion:244 Resp: 1666714
Ion Ratio Lower Upper
244 100
212 6.6 5.1 7.7
122 11.6 8.6 13.0





#81
Benzo(a)anthracene
Concen: 4.808 ng
RT: 13.874 min Scan# 2010
Delta R.T. 0.006 min
Lab File: BF133395.D
Acq: 15 May 2023 21:28

Instrument :

BNA_F

ClientSampleId :

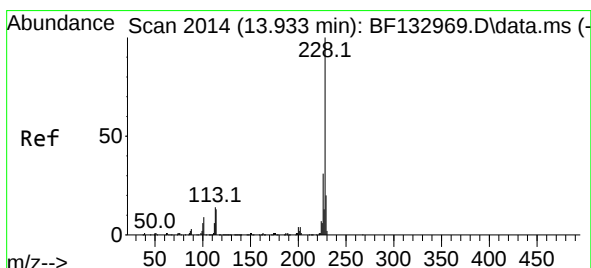
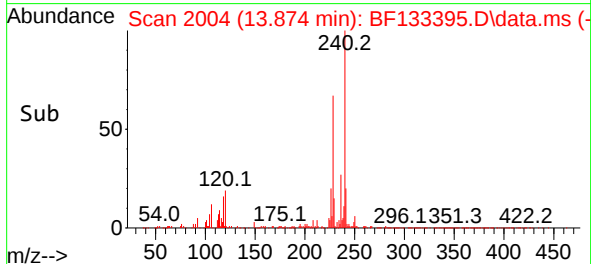
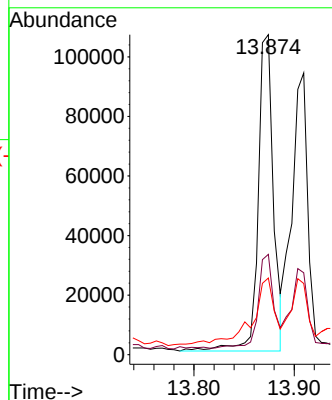
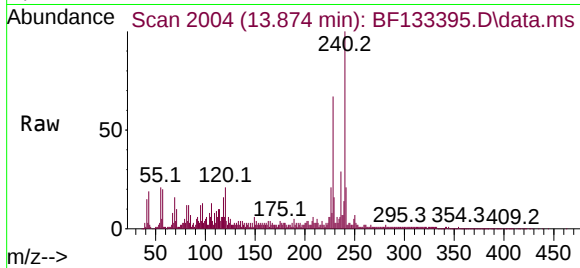
HR-4-051123

Tgt Ion:228 Resp: 112190
Ion Ratio Lower Upper
228 100
226 31.4 22.2 33.4
229 24.0 16.0 24.0

Manual Integrations

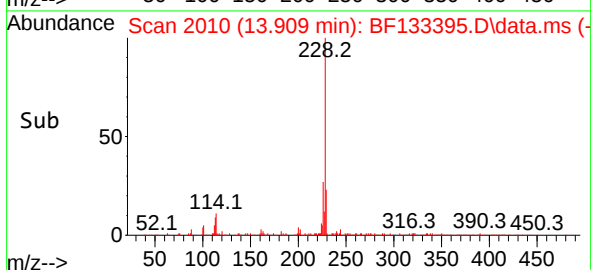
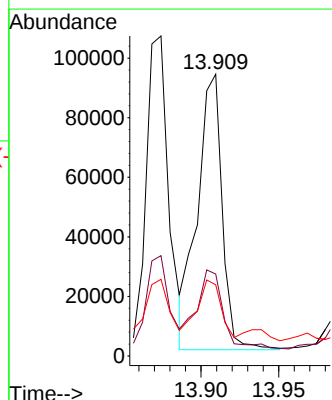
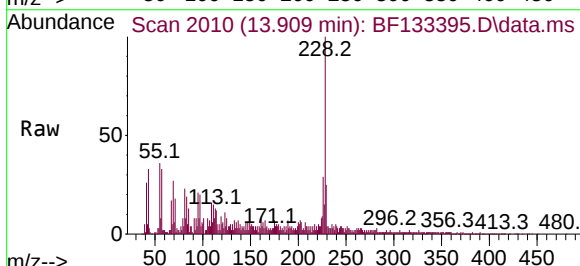
APPROVED

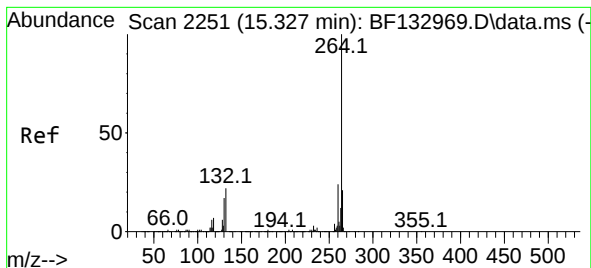
Reviewed By :Christian Giraldo 05/16/2023
Supervised By :Yogesh Patel 05/16/2023



#83
Chrysene
Concen: 4.421 ng m
RT: 13.909 min Scan# 2010
Delta R.T. 0.006 min
Lab File: BF133395.D
Acq: 15 May 2023 21:28

Tgt Ion:228 Resp: 103134
Ion Ratio Lower Upper
228 100
226 29.1 24.7 37.1
229 25.3 16.1 24.1#





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.309 min Scan# 21

Delta R.T. 0.018 min

Lab File: BF133395.D

Acq: 15 May 2023 21:28

Instrument :

BNA_F

ClientSampleId :

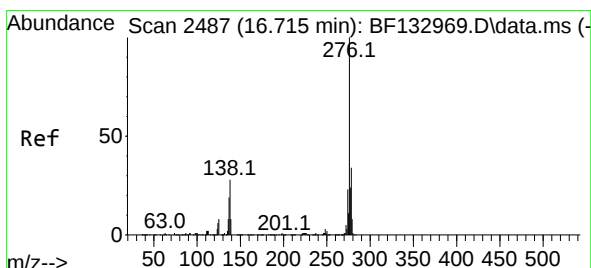
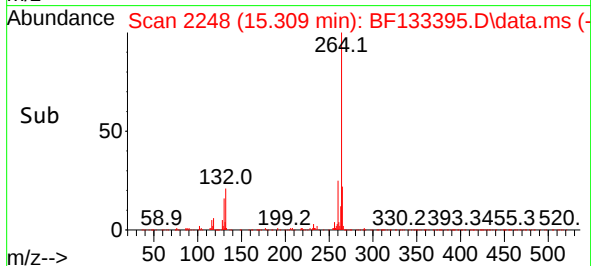
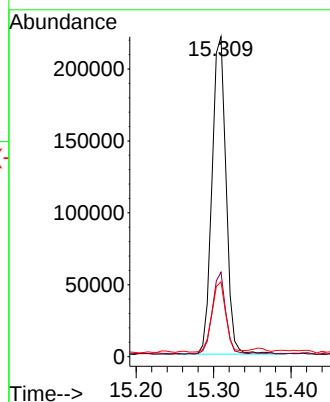
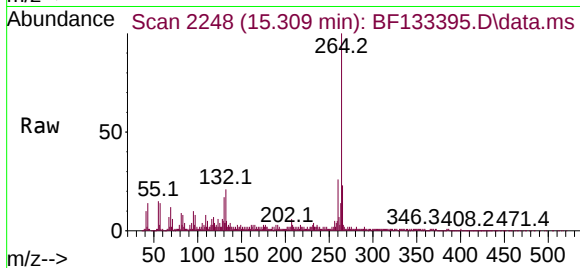
HR-4-051123

Tgt Ion:264	Resp:	27819
Ion Ratio	Lower	Upper
264	100	
260	26.4	18.8 28.2
265	23.4	17.0 25.4

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 05/16/2023
Supervised By :Yogesh Patel 05/16/2023



#87

Indeno(1,2,3-cd)pyrene

Concen: 3.111 ng

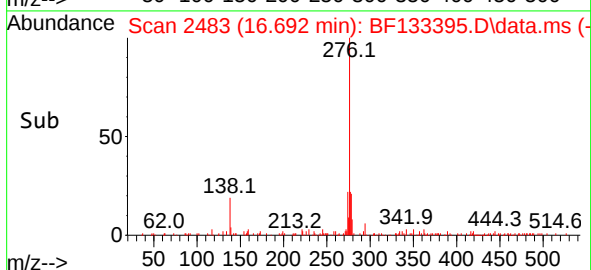
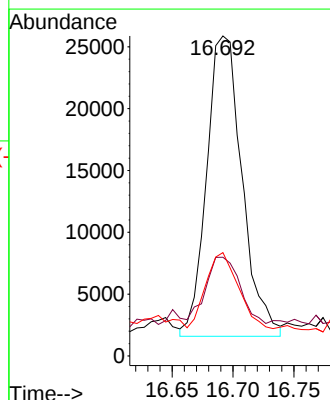
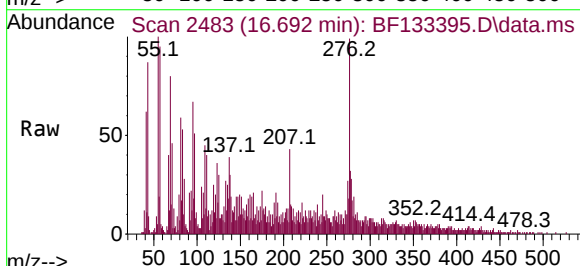
RT: 16.692 min Scan# 2483

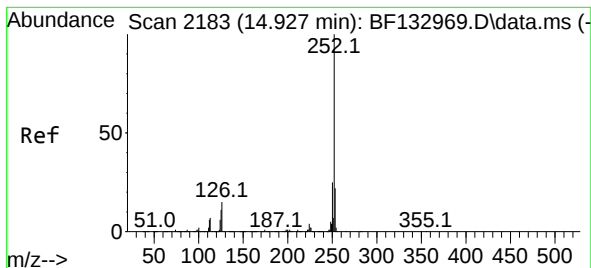
Delta R.T. 0.012 min

Lab File: BF133395.D

Acq: 15 May 2023 21:28

Tgt Ion:276	Resp:	49229
Ion Ratio	Lower	Upper
276	100	
138	20.8	25.5 38.3
277	23.0	20.4 30.6





#88

Benzo(b)fluoranthene

Concen: 6.169 ng m

RT: 14.898 min Scan# 2183

Delta R.T. 0.006 min

Lab File: BF133395.D

Acq: 15 May 2023 21:28

Instrument :

BNA_F

ClientSampleId :

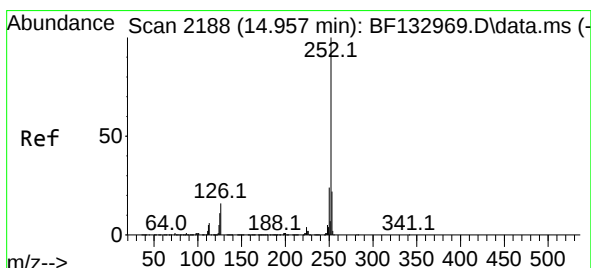
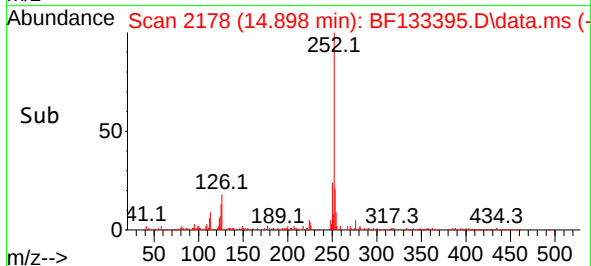
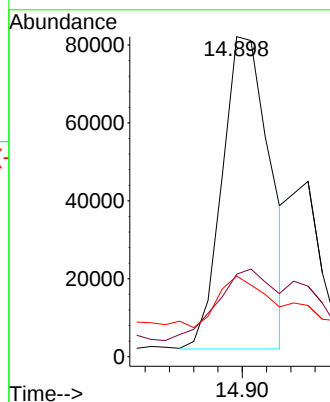
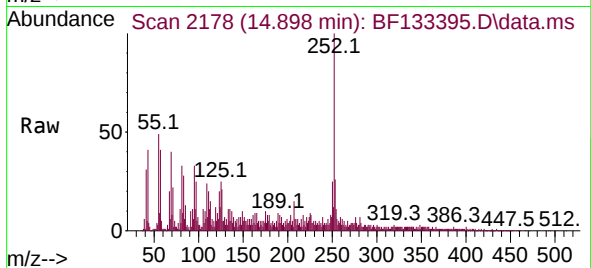
HR-4-051123

Tgt Ion:252 Resp: 109179
 Ion Ratio Lower Upper
 252 100
 253 25.8 17.6 26.4
 125 25.2 8.9 13.3

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 05/16/2023
 Supervised By :Yogesh Patel 05/16/2023



#89

Benzo(k)fluoranthene

Concen: 2.192 ng m

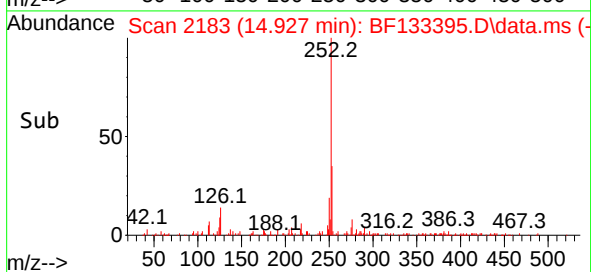
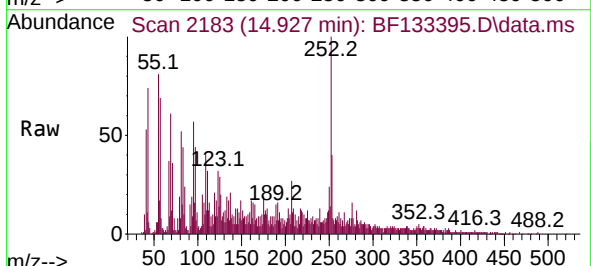
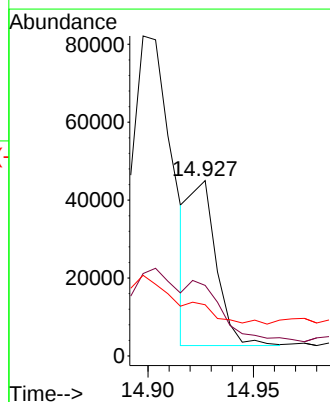
RT: 14.927 min Scan# 2183

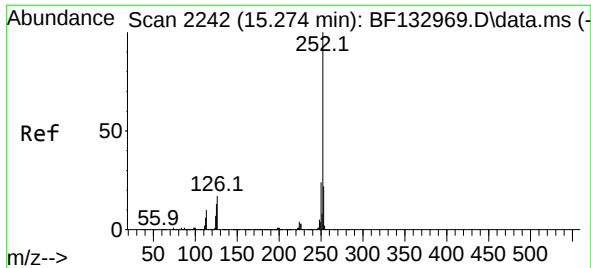
Delta R.T. 0.006 min

Lab File: BF133395.D

Acq: 15 May 2023 21:28

Tgt Ion:252 Resp: 38463
 Ion Ratio Lower Upper
 252 100
 253 40.3 17.7 26.5#
 125 29.2 9.0 13.4#





#90
Benzo(a)pyrene
Concen: 5.020 ng
RT: 15.245 min Scan# 21
Delta R.T. 0.006 min
Lab File: BF133395.D
Acq: 15 May 2023 21:28

Instrument :

BNA_F

ClientSampleId :

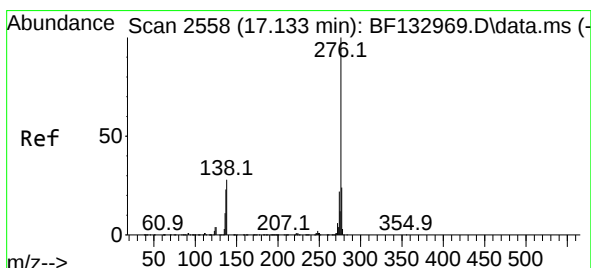
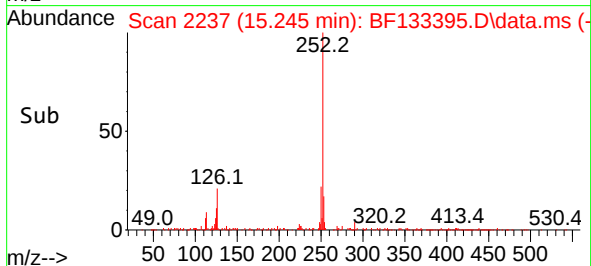
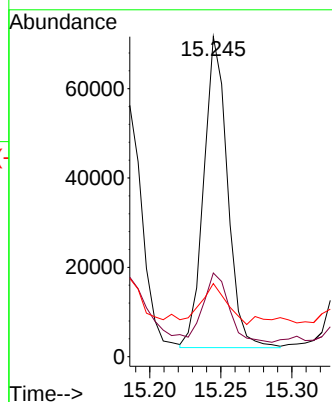
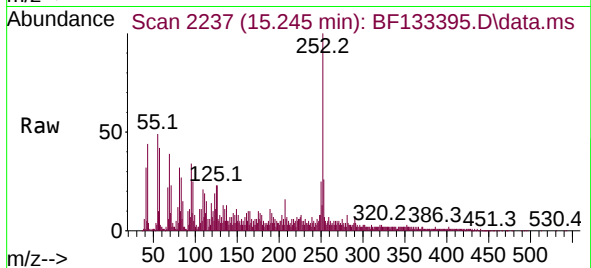
HR-4-051123

Tgt Ion:252 Resp: 80869
Ion Ratio Lower Upper
252 100
253 26.1 17.7 26.5
125 22.9 10.5 15.7

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 05/16/2023
Supervised By :Yogesh Patel 05/16/2023



#92
Benzo(g,h,i)perylene
Concen: 3.755 ng
RT: 17.109 min Scan# 2554
Delta R.T. 0.018 min
Lab File: BF133395.D
Acq: 15 May 2023 21:28

Tgt Ion:276 Resp: 48932
Ion Ratio Lower Upper
276 100
277 34.0 19.4 29.0#
138 34.3 22.7 34.1#

