

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051823\
 Data File : BF133447.D
 Acq On : 18 May 2023 19:43
 Operator : CG\JU
 Sample : 02823-03 2X
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 HD-02-051723

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 05/19/2023
 Supervised By : Jagrut Upadhyay 05/19/2023

Quant Time: May 19 03:21:25 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 18 18:12:00 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.710	152	235472	20.000	ng	0.00
21) Naphthalene-d8	7.998	136	903540	20.000	ng	0.00
39) Acenaphthene-d10	9.745	164	399015	20.000	ng	-0.01
64) Phenanthrene-d10	11.233	188	638325	20.000	ng	# 0.00
76) Chrysene-d12	13.868	240	441234	20.000	ng	-0.01
86) Perylene-d12	15.298	264	381273	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.322	112	615123	39.462	ng	0.00
7) Phenol-d6	6.357	99	702981	36.334	ng	-0.01
23) Nitrobenzene-d5	7.275	82	422801	25.258	ng	-0.01
42) 2,4,6-Tribromophenol	10.539	330	138063	34.405	ng	0.00
45) 2-Fluorobiphenyl	9.069	172	819221	34.348	ng	-0.01
79) Terphenyl-d14	12.816	244	698236	27.292	ng	-0.01
Target Compounds						Qvalue
49) Acenaphthylene	9.610	152	78432	2.120	ng	97
71) Phenanthrene	11.251	178	97258	2.835	ng	97
75) Fluoranthene	12.445	202	426507	12.387	ng	96
78) Pyrene	12.669	202	510009	13.484	ng	100
81) Benzo(a)anthracene	13.863	228	269507m	8.882	ng	
83) Chrysene	13.898	228	259323	8.549	ng	97
87) Indeno(1,2,3-cd)pyrene	16.674	276	136798	6.308	ng	93
88) Benzo(b)fluoranthene	14.892	252	318108m	13.115	ng	
89) Benzo(k)fluoranthene	14.910	252	122465m	5.093	ng	
90) Benzo(a)pyrene	15.233	252	218797	9.910	ng	96
92) Benzo(g,h,i)perylene	17.086	276	121342	6.795	ng	96

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

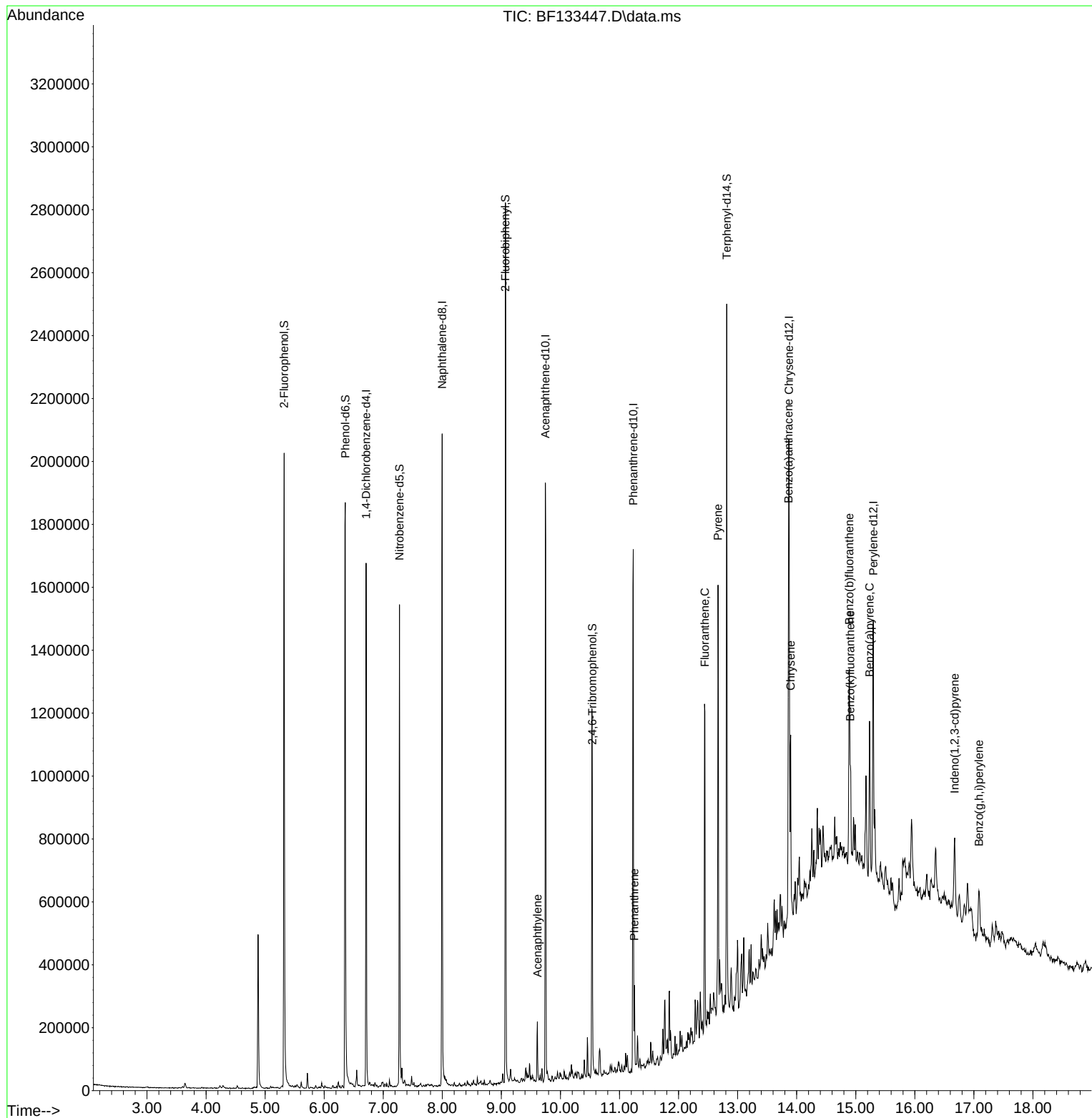
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051823\
Data File : BF133447.D
Acq On : 18 May 2023 19:43
Operator : CG\JU
Sample : 02823-03 2X
Misc :
ALS Vial : 18 Sample Multiplier: 1

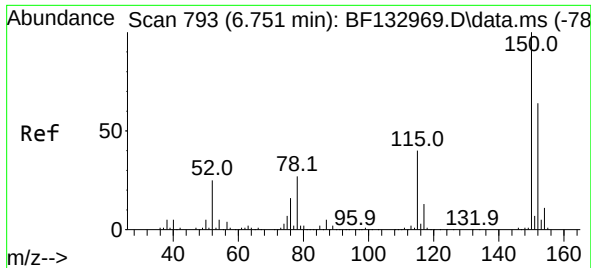
Instrument :
BNA_F
ClientSampleId :
HD-02-051723

Quant Time: May 19 03:21:25 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 18 18:12:00 2023
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By :Christian Giraldo 05/19/2023
Supervised By :Jagrut Upadhyay 05/19/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.710 min Scan# 71
Delta R.T. -0.006 min
Lab File: BF133447.D
Acq: 18 May 2023 19:43

Instrument :

BNA_F

ClientSampleId :

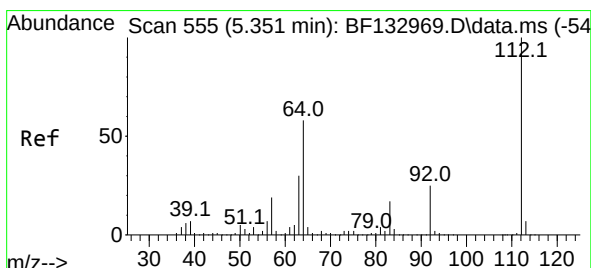
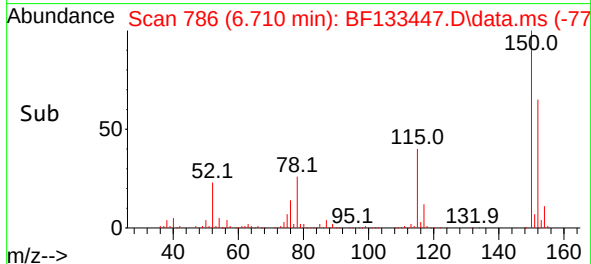
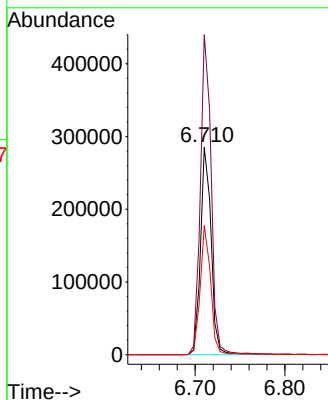
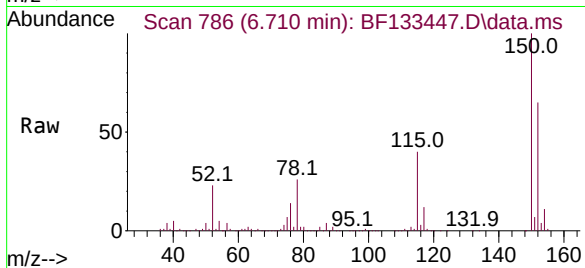
HD-02-051723

Tgt Ion:152 Resp: 235472
Ion Ratio Lower Upper
152 100
150 154.2 124.8 187.2
115 62.2 49.9 74.9

Manual Integrations

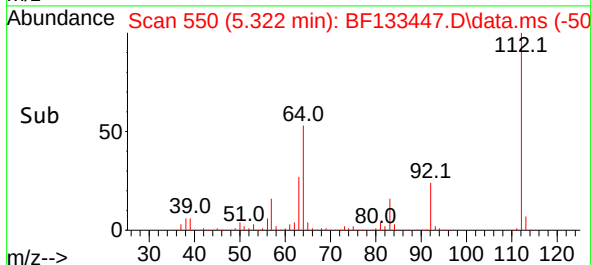
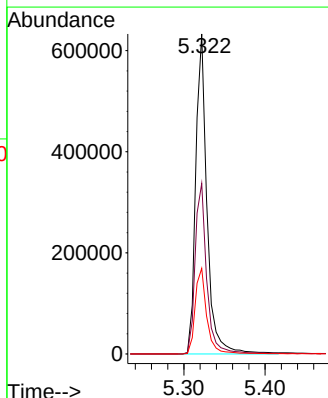
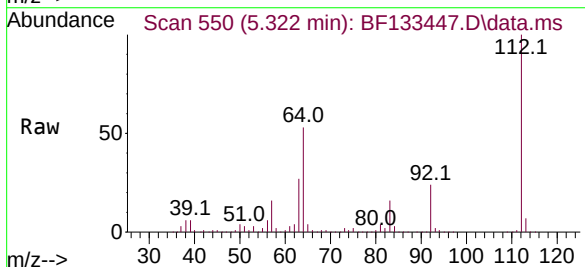
APPROVED

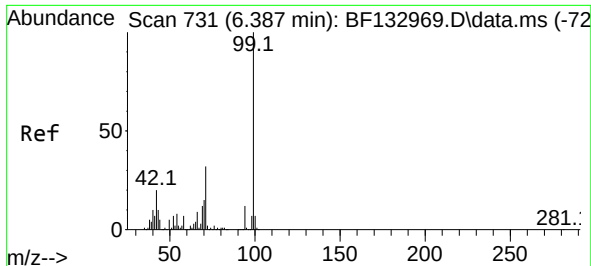
Reviewed By :Christian Giraldo 05/19/2023
Supervised By :Jagrut Upadhyay 05/19/2023



#5
2-Fluorophenol
Concen: 39.462 ng
RT: 5.322 min Scan# 550
Delta R.T. -0.006 min
Lab File: BF133447.D
Acq: 18 May 2023 19:43

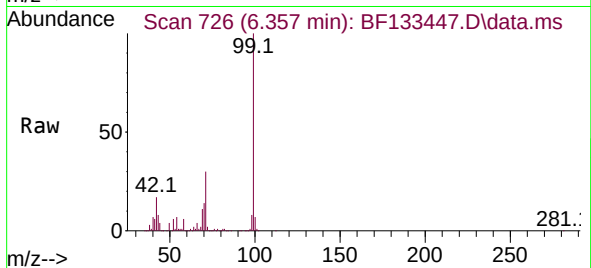
Tgt Ion:112 Resp: 615123
Ion Ratio Lower Upper
112 100
64 53.3 46.8 70.2
63 26.8 23.8 35.8





#7
Phenol-d6
Concen: 36.334 ng
RT: 6.357 min Scan# 70
Delta R.T. -0.012 min
Lab File: BF133447.D
Acq: 18 May 2023 19:43

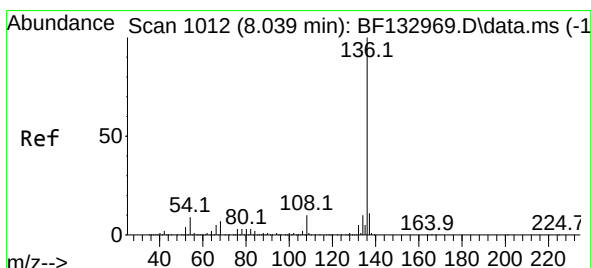
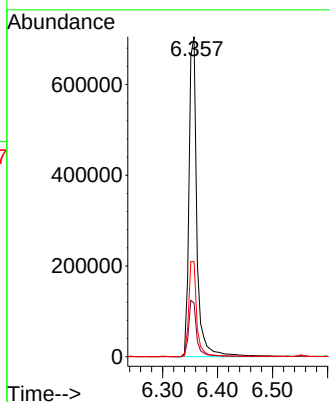
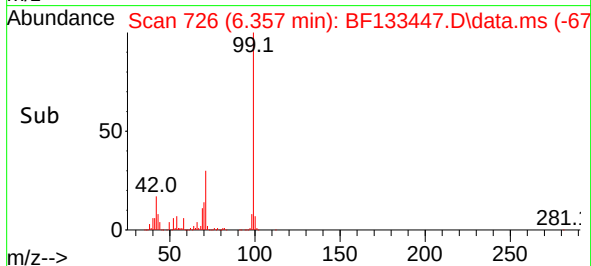
Instrument :
BNA_F
ClientSampleId :
HD-02-051723



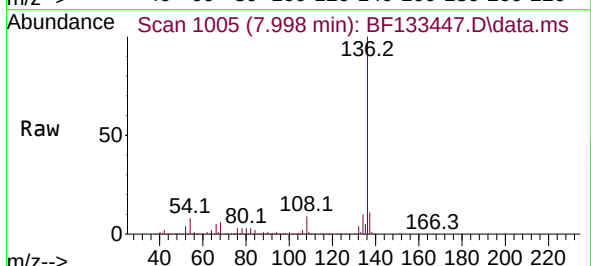
Tgt Ion: 99 Resp: 70298
Ion Ratio Lower Upper
99 100
42 16.8 16.3 24.5
71 29.7 25.6 38.4

Manual Integrations
APPROVED

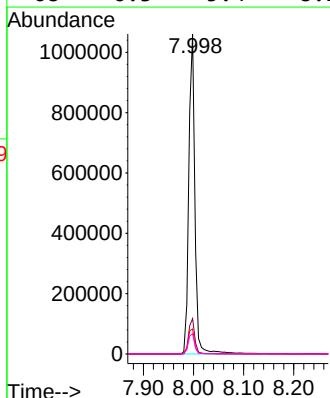
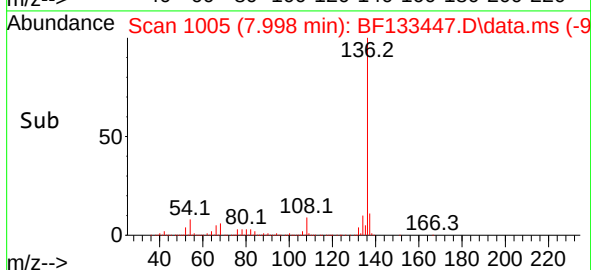
Reviewed By :Christian Giraldo 05/19/2023
Supervised By :Jagrut Upadhyay 05/19/2023

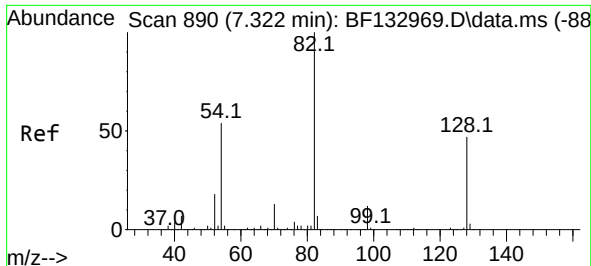


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 7.998 min Scan# 1005
Delta R.T. -0.006 min
Lab File: BF133447.D
Acq: 18 May 2023 19:43



Tgt Ion:136 Resp: 903540
Ion Ratio Lower Upper
136 100
137 11.1 8.6 13.0
54 7.8 7.0 10.4
68 6.3 5.4 8.2





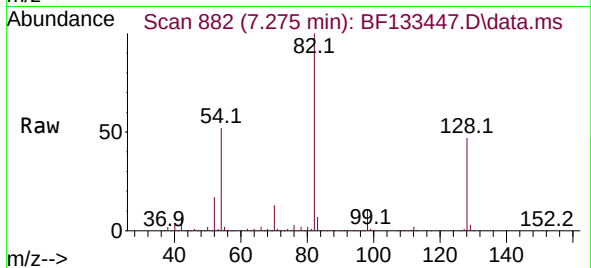
#23
Nitrobenzene-d5
Concen: 25.258 ng
RT: 7.275 min Scan# 81
Delta R.T. -0.012 min
Lab File: BF133447.D
Acq: 18 May 2023 19:43

Instrument :

BNA_F

ClientSampleId :

HD-02-051723

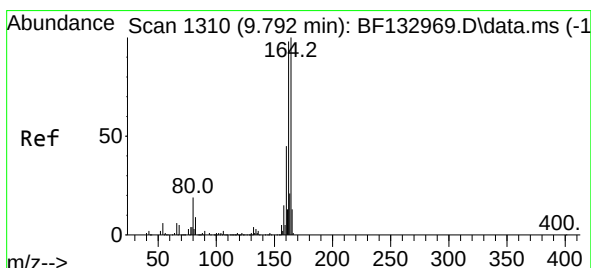
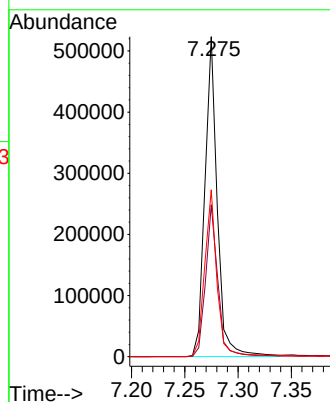
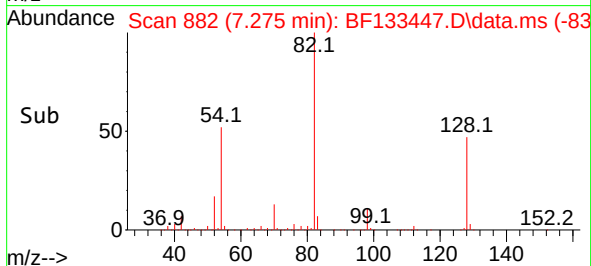


Tgt Ion: 82 Resp: 42280
Ion Ratio Lower Upper
82 100
128 47.5 37.7 56.5
54 52.2 43.0 64.4

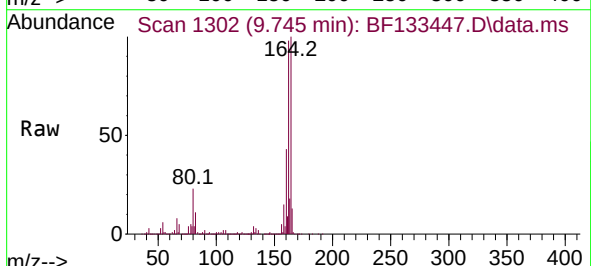
Manual Integrations

APPROVED

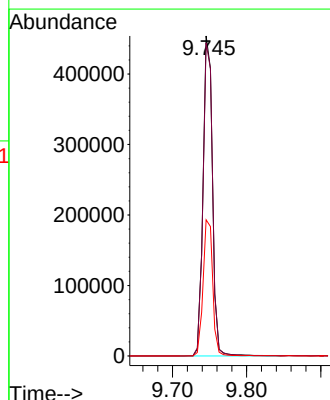
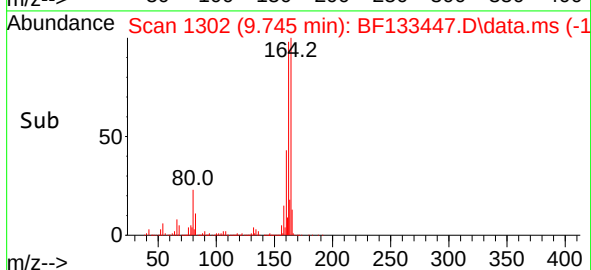
Reviewed By :Christian Giraldo 05/19/2023
Supervised By :Jagrut Upadhyay 05/19/2023

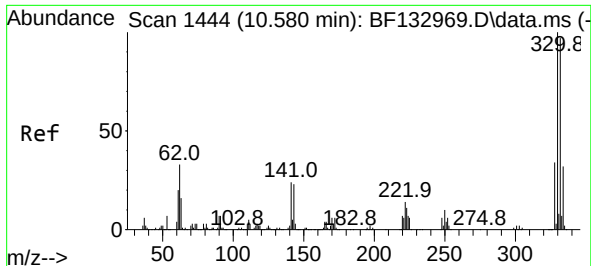


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.745 min Scan# 1302
Delta R.T. -0.012 min
Lab File: BF133447.D
Acq: 18 May 2023 19:43



Tgt Ion:164 Resp: 399015
Ion Ratio Lower Upper
164 100
162 97.8 78.7 118.1
160 42.5 35.8 53.6





#42
2,4,6-Tribromophenol
Concen: 34.405 ng
RT: 10.539 min Scan# 1444
Delta R.T. -0.006 min
Lab File: BF133447.D
Acq: 18 May 2023 19:43

Instrument :

BNA_F

ClientSampleId :

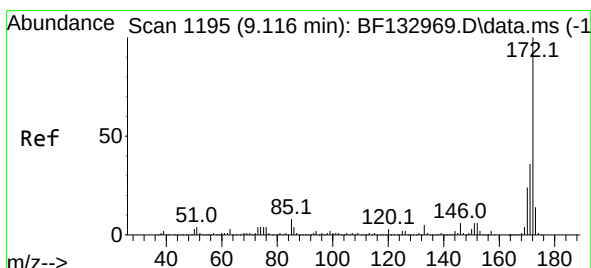
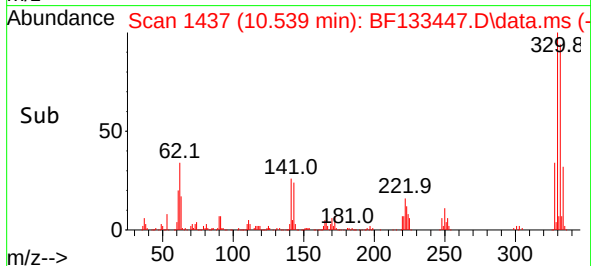
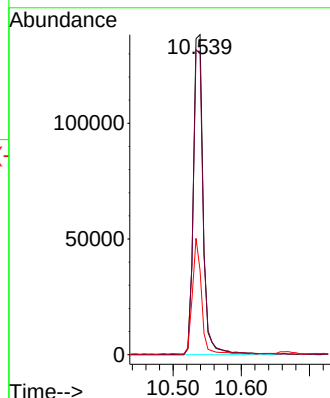
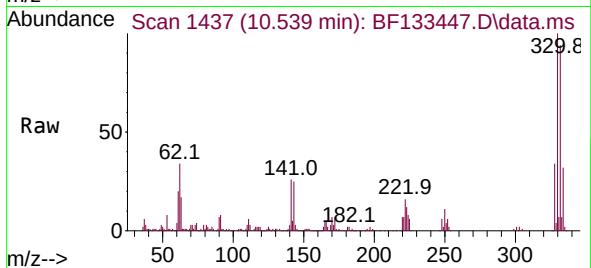
HD-02-051723

Tgt Ion:330 Resp: 13806
Ion Ratio Lower Upper
330 100
332 96.6 77.1 115.7
141 33.4 25.8 38.8

Manual Integrations

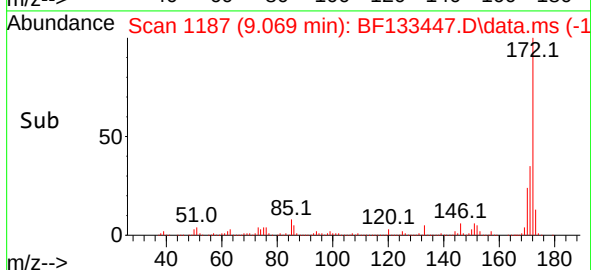
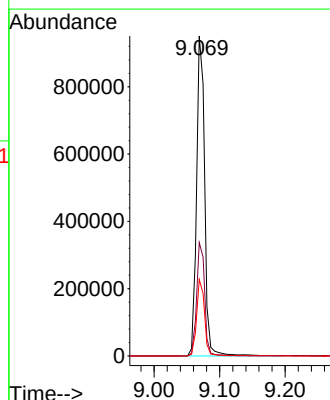
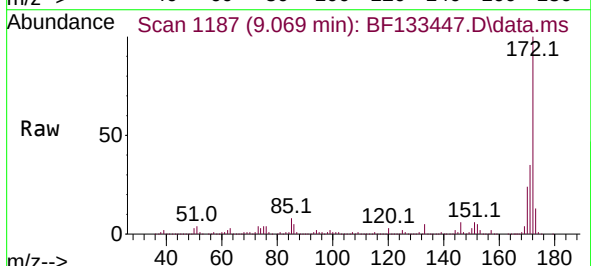
APPROVED

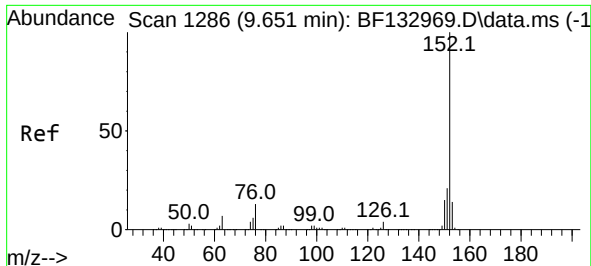
Reviewed By :Christian Giraldo 05/19/2023
Supervised By :Jagrut Upadhyay 05/19/2023



#45
2-Fluorobiphenyl
Concen: 34.348 ng
RT: 9.069 min Scan# 1187
Delta R.T. -0.012 min
Lab File: BF133447.D
Acq: 18 May 2023 19:43

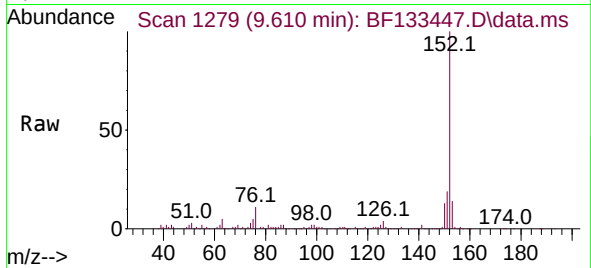
Tgt Ion:172 Resp: 819221
Ion Ratio Lower Upper
172 100
171 35.5 28.8 43.2
170 23.9 19.4 29.2





#49
Acenaphthylene
Concen: 2.120 ng
RT: 9.610 min Scan# 1555
Delta R.T. -0.006 min
Lab File: BF133447.D
Acq: 18 May 2023 19:43

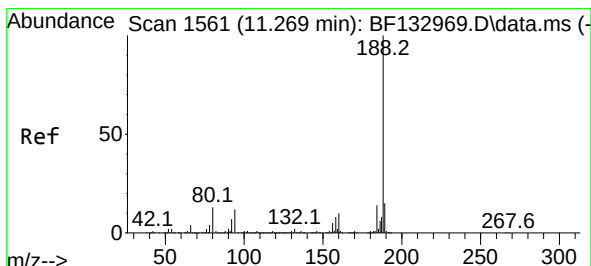
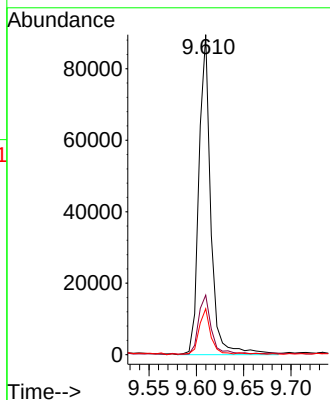
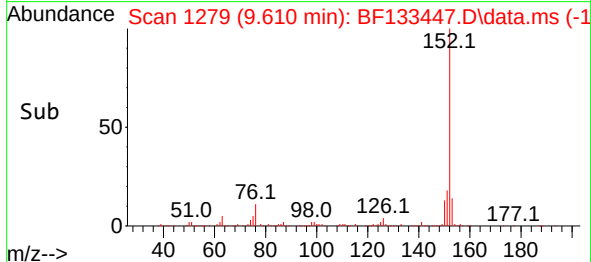
Instrument :
BNA_F
ClientSampleId :
HD-02-051723



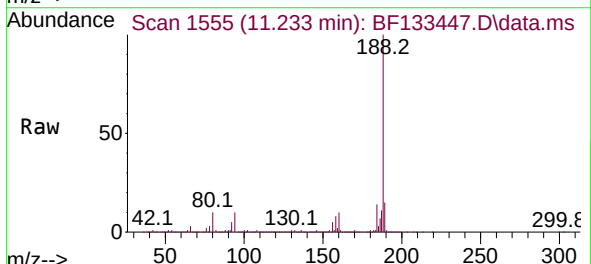
Tgt Ion:152 Resp: 78432
Ion Ratio Lower Upper
152 100
151 18.6 16.6 24.8
153 14.4 11.5 17.3

Manual Integrations
APPROVED

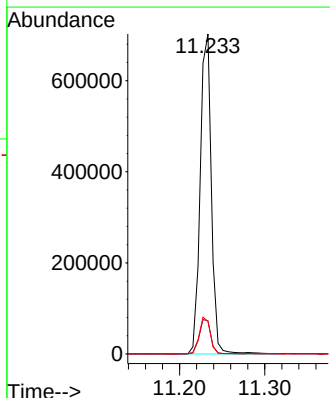
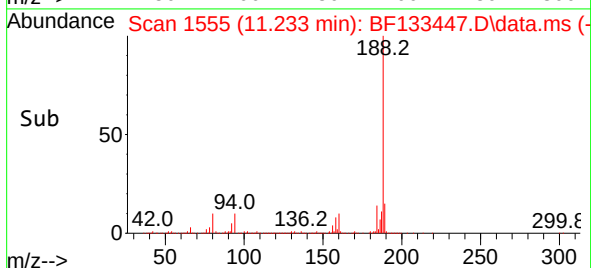
Reviewed By :Christian Giraldo 05/19/2023
Supervised By :Jagrut Upadhyay 05/19/2023

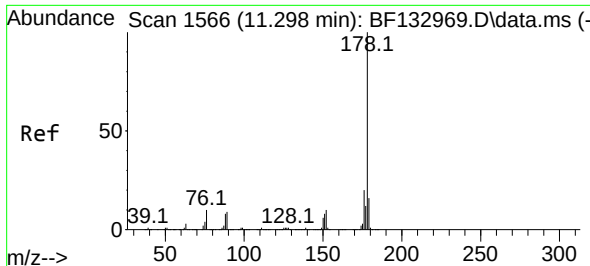


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.233 min Scan# 1555
Delta R.T. -0.006 min
Lab File: BF133447.D
Acq: 18 May 2023 19:43



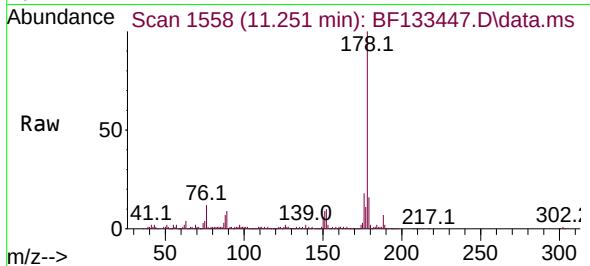
Tgt Ion:188 Resp: 638325
Ion Ratio Lower Upper
188 100
94 10.3 9.7 14.5
80 10.2 10.4 15.6#





#71
Phenanthrene
Concen: 2.835 ng
RT: 11.251 min Scan# 11251
Delta R.T. -0.012 min
Lab File: BF133447.D
Acq: 18 May 2023 19:43

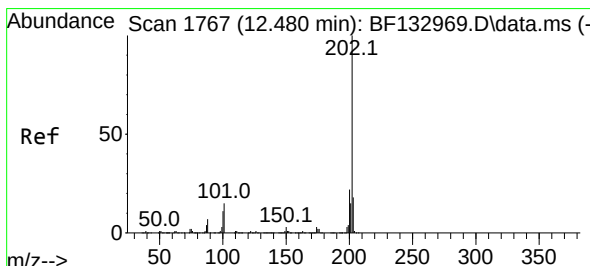
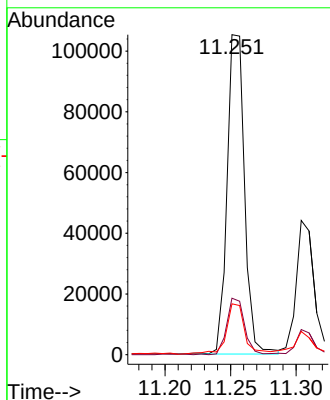
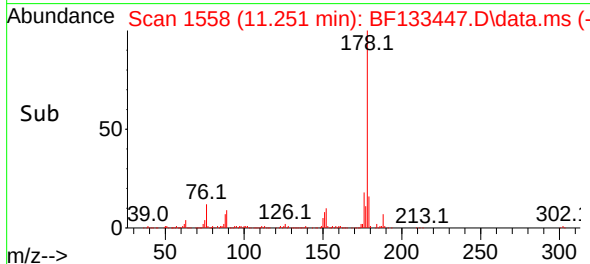
Instrument :
BNA_F
ClientSampleId :
HD-02-051723



Tgt Ion:178 Resp: 97258
Ion Ratio Lower Upper
178 100
176 17.6 15.9 23.9
179 15.9 12.5 18.7

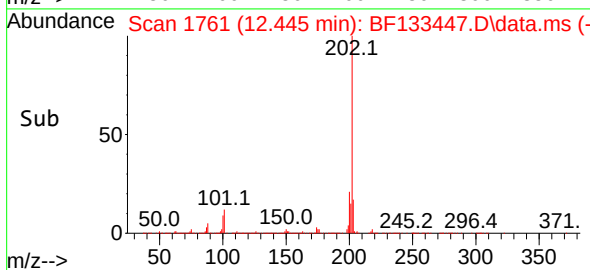
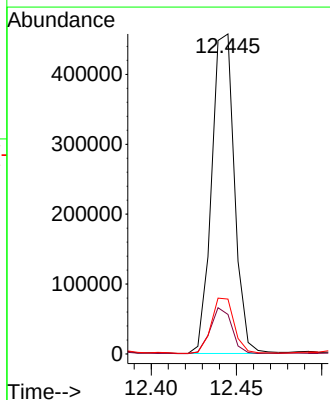
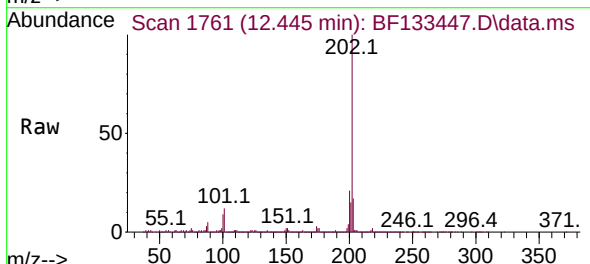
Manual Integrations
APPROVED

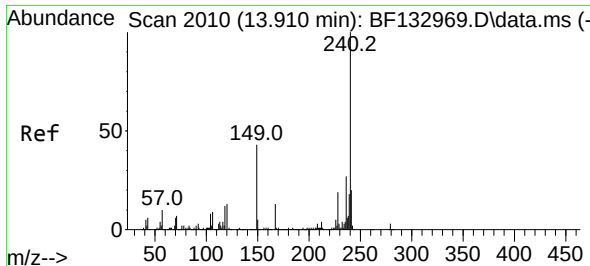
Reviewed By :Christian Giraldo 05/19/2023
Supervised By :Jagrut Upadhyay 05/19/2023



#75
Fluoranthene
Concen: 12.387 ng
RT: 12.445 min Scan# 1761
Delta R.T. -0.006 min
Lab File: BF133447.D
Acq: 18 May 2023 19:43

Tgt Ion:202 Resp: 426507
Ion Ratio Lower Upper
202 100
101 12.4 0.0 35.3
203 17.1 0.0 38.1





#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.868 min Scan# 2010
Delta R.T. -0.012 min
Lab File: BF133447.D
Acq: 18 May 2023 19:43

Instrument :

BNA_F

ClientSampleId :

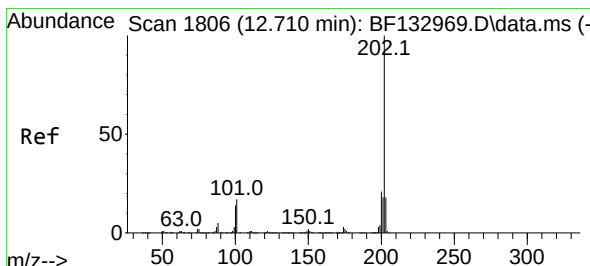
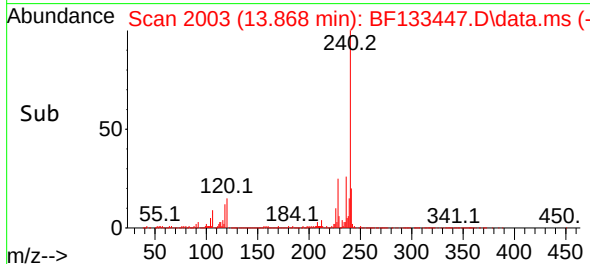
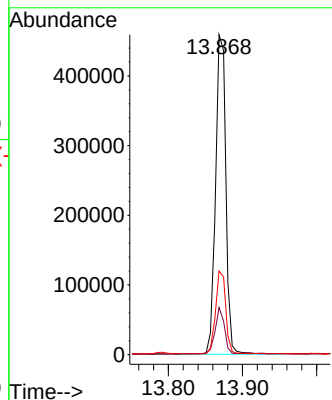
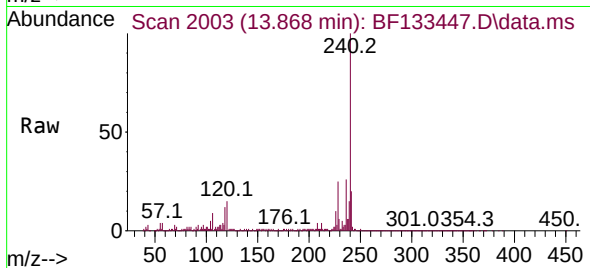
HD-02-051723

Tgt Ion:240 Resp: 441234
Ion Ratio Lower Upper
240 100
120 14.7 10.5 15.7
236 26.2 21.5 32.3

Manual Integrations

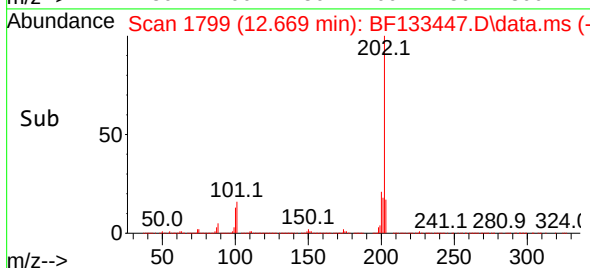
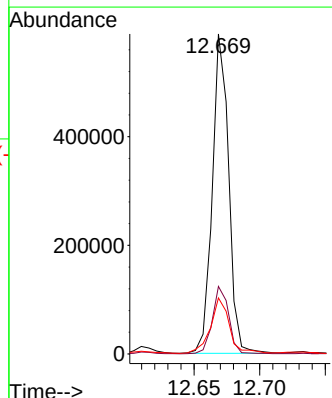
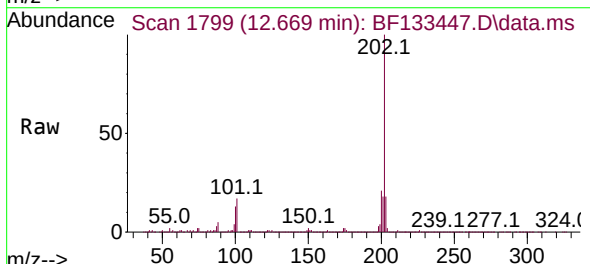
APPROVED

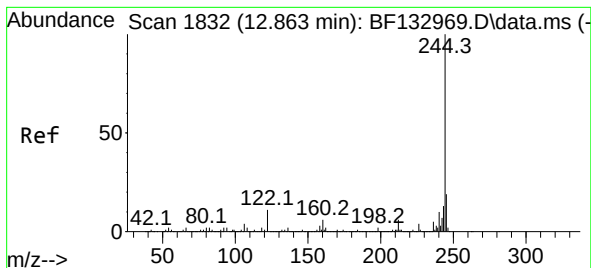
Reviewed By :Christian Giraldo 05/19/2023
Supervised By :Jagrut Upadhyay 05/19/2023



#78
Pyrene
Concen: 13.484 ng
RT: 12.669 min Scan# 1799
Delta R.T. -0.012 min
Lab File: BF133447.D
Acq: 18 May 2023 19:43

Tgt Ion:202 Resp: 510009
Ion Ratio Lower Upper
202 100
200 21.1 17.1 25.7
203 17.5 14.1 21.1





#79

Terphenyl-d14

Concen: 27.292 ng

RT: 12.816 min Scan# 1832

Delta R.T. -0.012 min

Lab File: BF133447.D

Acq: 18 May 2023 19:43

Instrument :

BNA_F

ClientSampleId :

HD-02-051723

Tgt Ion:244 Resp: 698230

Ion Ratio Lower Upper

244 100

212 6.4 5.1 7.7

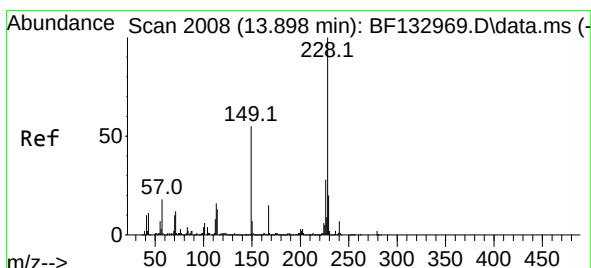
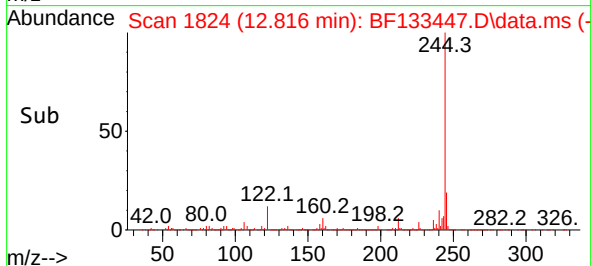
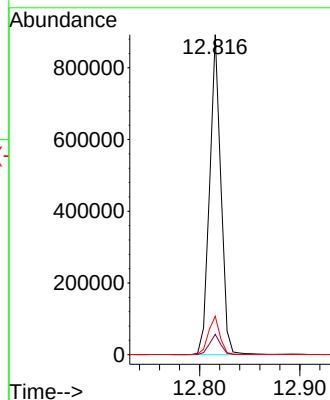
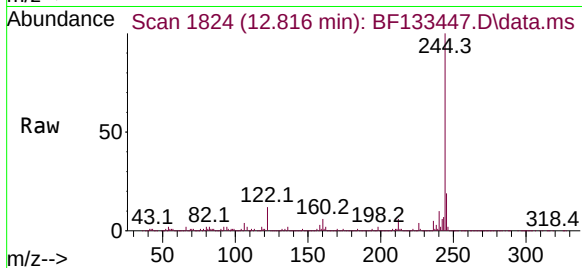
122 12.0 8.6 13.0

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 05/19/2023

Supervised By :Jagrut Upadhyay 05/19/2023



#81

Benzo(a)anthracene

Concen: 8.882 ng m

RT: 13.863 min Scan# 2002

Delta R.T. -0.006 min

Lab File: BF133447.D

Acq: 18 May 2023 19:43

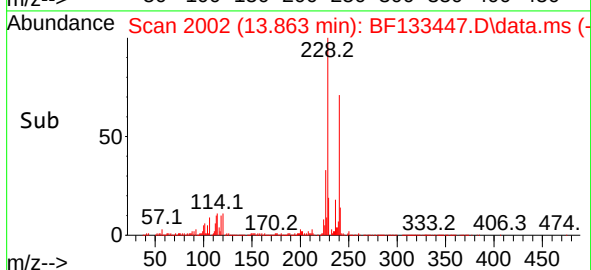
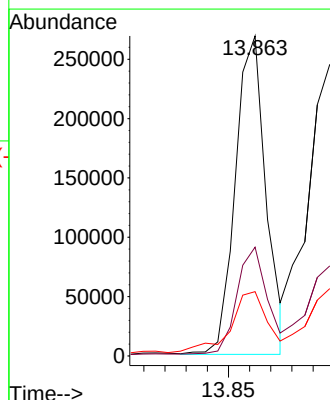
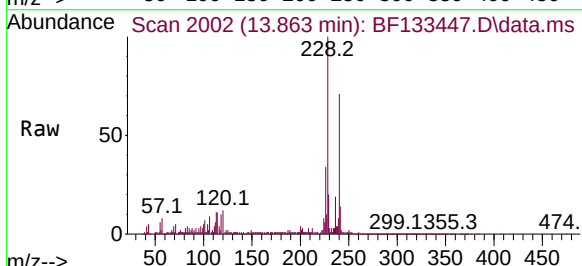
Tgt Ion:228 Resp: 269507

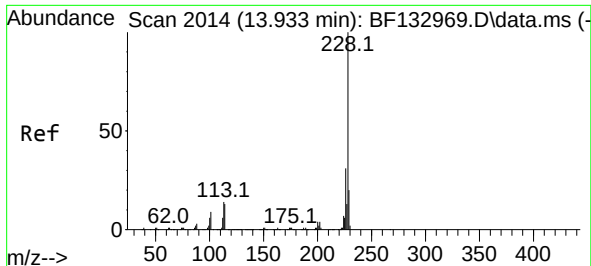
Ion Ratio Lower Upper

228 100

226 34.0 22.2 33.4#

229 20.1 16.0 24.0





#83
Chrysene
Concen: 8.549 ng
RT: 13.898 min Scan# 2014
Delta R.T. -0.006 min
Lab File: BF133447.D
Acq: 18 May 2023 19:43

Instrument :

BNA_F

ClientSampleId :

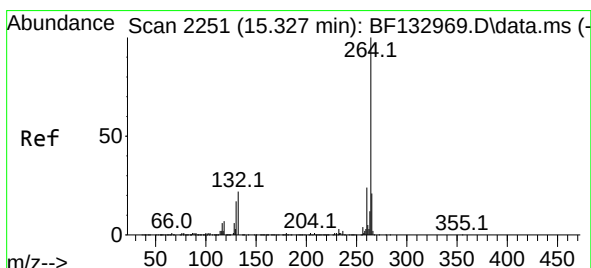
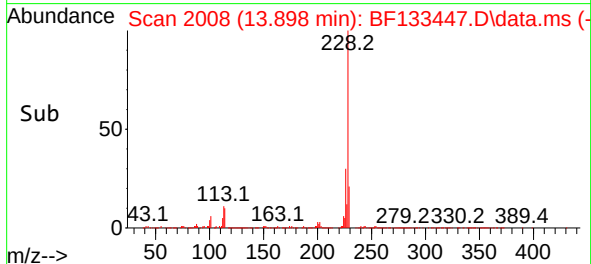
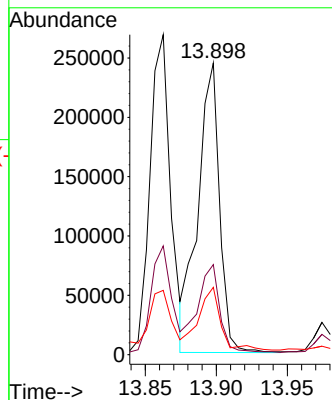
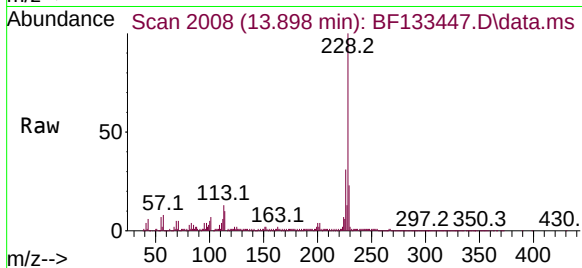
HD-02-051723

Tgt Ion:228 Resp: 25932
Ion Ratio Lower Upper
228 100
226 30.9 24.7 37.1
229 23.1 16.1 24.1

Manual Integrations

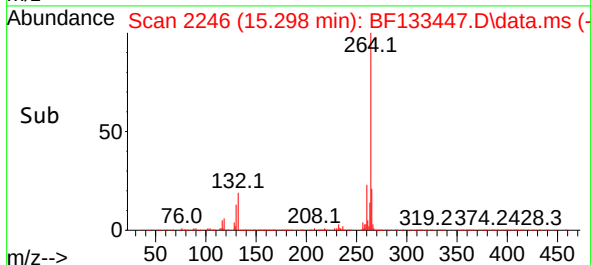
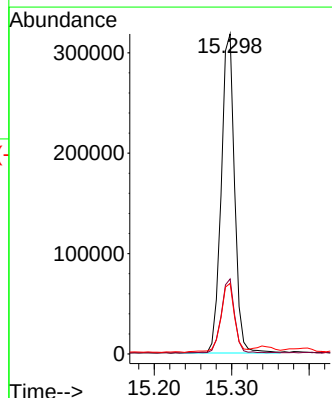
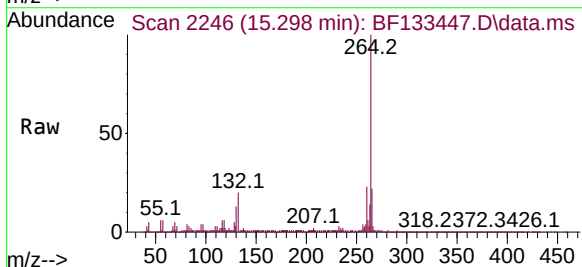
APPROVED

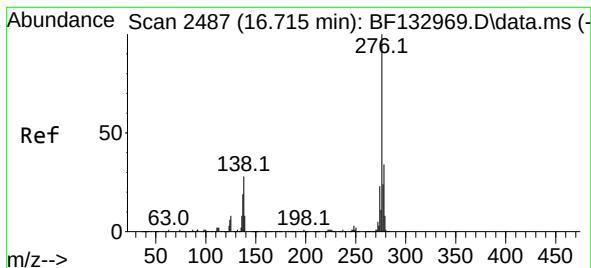
Reviewed By :Christian Giraldo 05/19/2023
Supervised By :Jagrut Upadhyay 05/19/2023



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.298 min Scan# 2246
Delta R.T. 0.000 min
Lab File: BF133447.D
Acq: 18 May 2023 19:43

Tgt Ion:264 Resp: 381273
Ion Ratio Lower Upper
264 100
260 23.5 18.8 28.2
265 22.1 17.0 25.4





#87

Indeno(1,2,3-cd)pyrene

Concen: 6.308 ng

RT: 16.674 min Scan# 2487

Delta R.T. -0.012 min

Lab File: BF133447.D

Acq: 18 May 2023 19:43

Instrument :

BNA_F

ClientSampleId :

HD-02-051723

Tgt Ion: 276 Resp: 136798

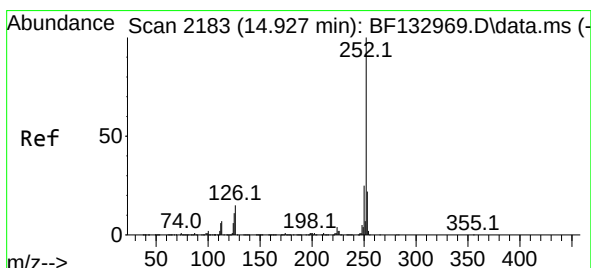
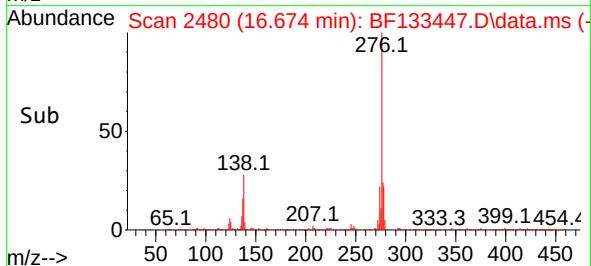
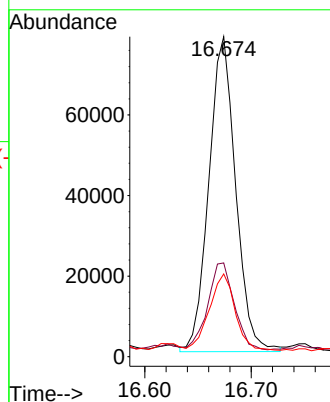
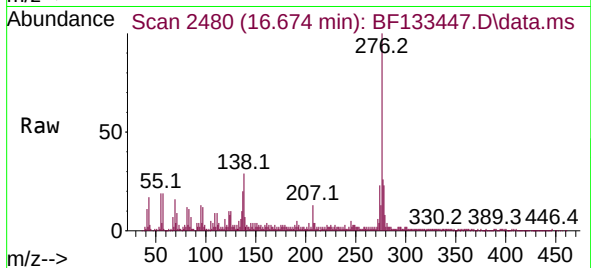
Ion	Ratio	Lower	Upper
276	100		
138	27.1	25.5	38.3
277	23.3	20.4	30.6

Manual Integrations

APPROVED

Reviewed By : Christian Giraldo 05/19/2023

Supervised By : Jagrut Upadhyay 05/19/2023



#88

Benzo(b)fluoranthene

Concen: 13.115 ng m

RT: 14.892 min Scan# 2177

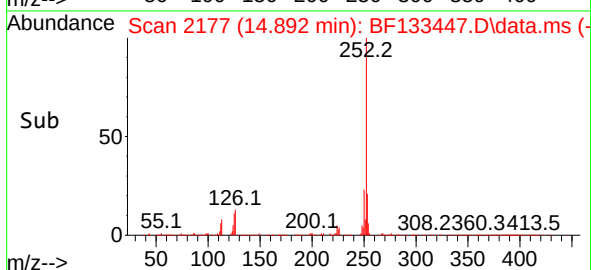
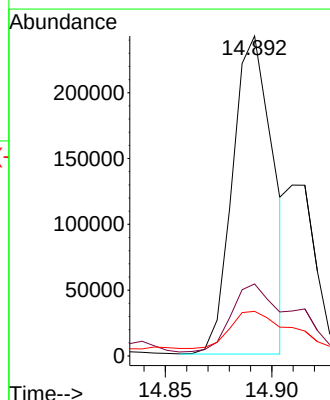
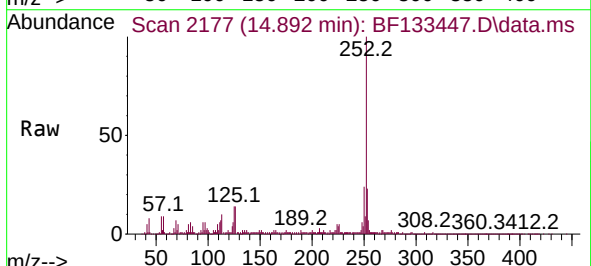
Delta R.T. 0.000 min

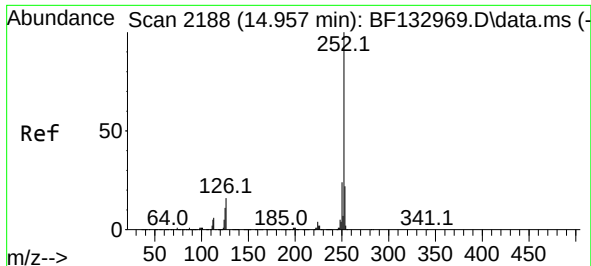
Lab File: BF133447.D

Acq: 18 May 2023 19:43

Tgt Ion: 252 Resp: 318108

Ion	Ratio	Lower	Upper
252	100		
253	22.5	17.6	26.4
125	13.9	8.9	13.3





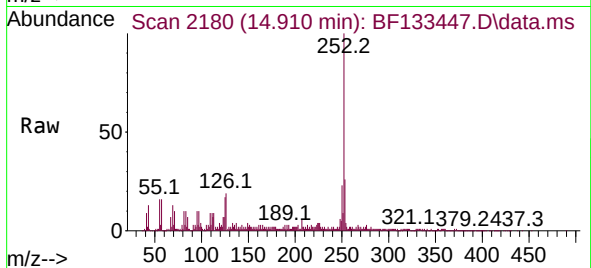
#89
Benzo(k)fluoranthene
Concen: 5.093 ng m
RT: 14.910 min Scan# 2188
Delta R.T. -0.012 min
Lab File: BF133447.D
Acq: 18 May 2023 19:43

Instrument :

BNA_F

ClientSampleId :

HD-02-051723

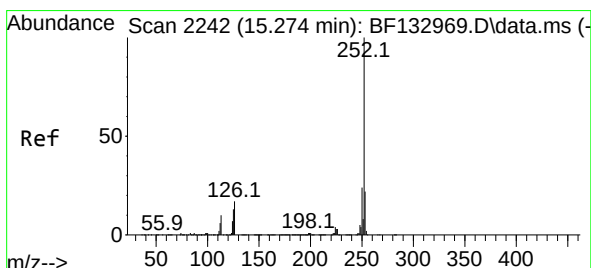
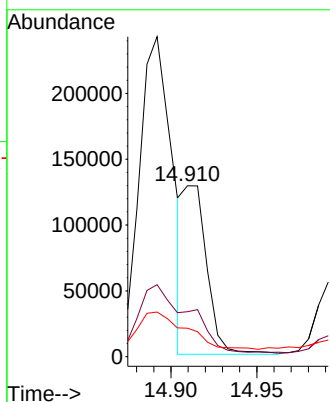
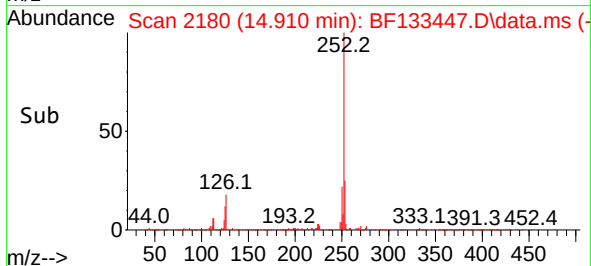


Tgt Ion:252 Resp: 122468
Ion Ratio Lower Upper
252 100
253 26.3 17.7 26.5
125 16.7 9.0 13.4

Manual Integrations

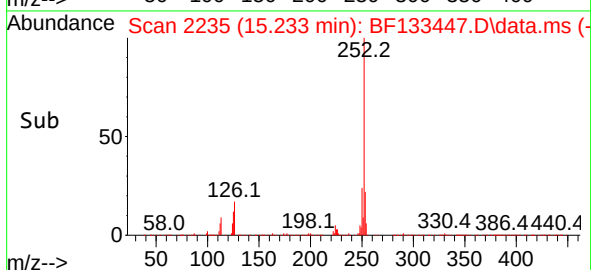
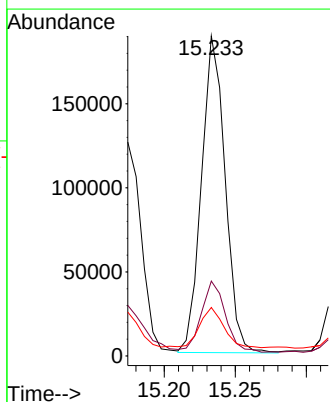
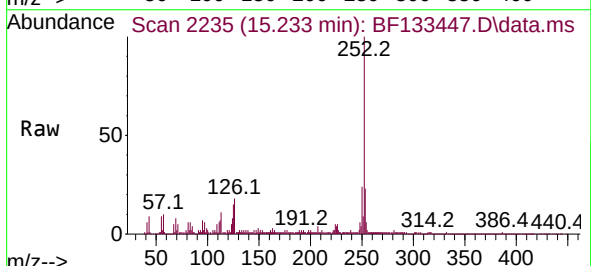
APPROVED

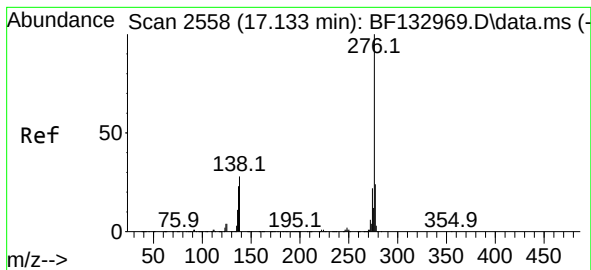
Reviewed By :Christian Giraldo 05/19/2023
Supervised By :Jagrut Upadhyay 05/19/2023



#90
Benzo(a)pyrene
Concen: 9.910 ng
RT: 15.233 min Scan# 2235
Delta R.T. -0.006 min
Lab File: BF133447.D
Acq: 18 May 2023 19:43

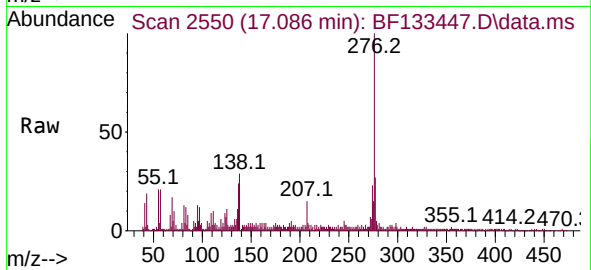
Tgt Ion:252 Resp: 218797
Ion Ratio Lower Upper
252 100
253 23.4 17.7 26.5
125 15.2 10.5 15.7





#92
 Benzo(g,h,i)perylene
 Concen: 6.795 ng
 RT: 17.086 min Scan# 21
 Delta R.T. -0.018 min
 Lab File: BF133447.D
 Acq: 18 May 2023 19:43

Instrument :
 BNA_F
 ClientSampleId :
 HD-02-051723



Tgt Ion:	276	Resp:	12134
Ion Ratio	Lower	Upper	
276	100		
277	27.4	19.4	29.0
138	29.4	22.7	34.1

Manual Integrations
 APPROVED

Reviewed By :Christian Giraldo 05/19/2023
 Supervised By :Jagrut Upadhyay 05/19/2023

