

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101822\
 Data File : BF130702.D
 Acq On : 18 Oct 2022 17:16
 Operator : CG\JU
 Sample : N5160-01DL 10X
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 HD-1-101422DL

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 10/19/2022
 Supervised By : Jagrut Upadhyay 10/19/2022

Quant Time: Oct 18 18:13:50 2022
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101122.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Oct 18 03:15:54 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.575	152	88567	20.000	ng	0.00
21) Naphthalene-d8	7.857	136	325480	20.000	ng	0.00
39) Acenaphthene-d10	9.604	164	152490	20.000	ng	0.00
64) Phenanthrene-d10	11.086	188	201794	20.000	ng	0.00
76) Chrysene-d12	13.716	240	170476	20.000	ng	0.00
86) Perylene-d12	15.098	264	203680	20.000	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.187	112	40629	8.269	ng	0.02
7) Phenol-d6	6.234	99	52113	8.436	ng	0.00
23) Nitrobenzene-d5	7.145	82	31818	5.337	ng	0.00
42) 2,4,6-Tribromophenol	10.398	330	9572	6.415	ng	0.00
45) 2-Fluorobiphenyl	8.933	172	60671	6.027	ng	0.00
79) Terphenyl-d14	12.663	244	42329	4.121	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	7.875	128	233318	13.848	ng	100
37) 2-Methylnaphthalene	8.569	142	103642	9.775	ng	98
38) 1-Methylnaphthalene	8.669	142	87473	8.498	ng	99
46) 1,1'-Biphenyl	9.033	154	22781	2.061	ng	98
52) Acenaphthene	9.633	154	77377	9.437	ng	97
55) Dibenzofuran	9.810	168	93519	7.487	ng	97
58) Fluorene	10.151	166	161211	15.699	ng	99
71) Phenanthrene	11.116	178	883758	79.047	ng	99
72) Anthracene	11.163	178	186875	17.115	ng	99
73) Carbazole	11.322	167	76881	7.891	ng	98
75) Fluoranthene	12.298	202	527073	49.052	ng	99
78) Pyrene	12.521	202	551237	37.481	ng	100
81) Benzo(a)anthracene	13.710	228	295904	25.760	ng	98
83) Chrysene	13.745	228	296744	27.247	ng	99
87) Indeno(1,2,3-cd)pyrene	16.386	276	101070	6.630	ng	95
88) Benzo(b)fluoranthene	14.715	252	287755m	22.311	ng	
89) Benzo(k)fluoranthene	14.739	252	99743m	7.595	ng	
90) Benzo(a)pyrene	15.039	252	227750	21.217	ng	98
91) Dibenzo(a,h)anthracene	16.392	278	28797	2.305	ng	# 92
92) Benzo(g,h,i)perylene	16.774	276	96233	8.268	ng	98

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

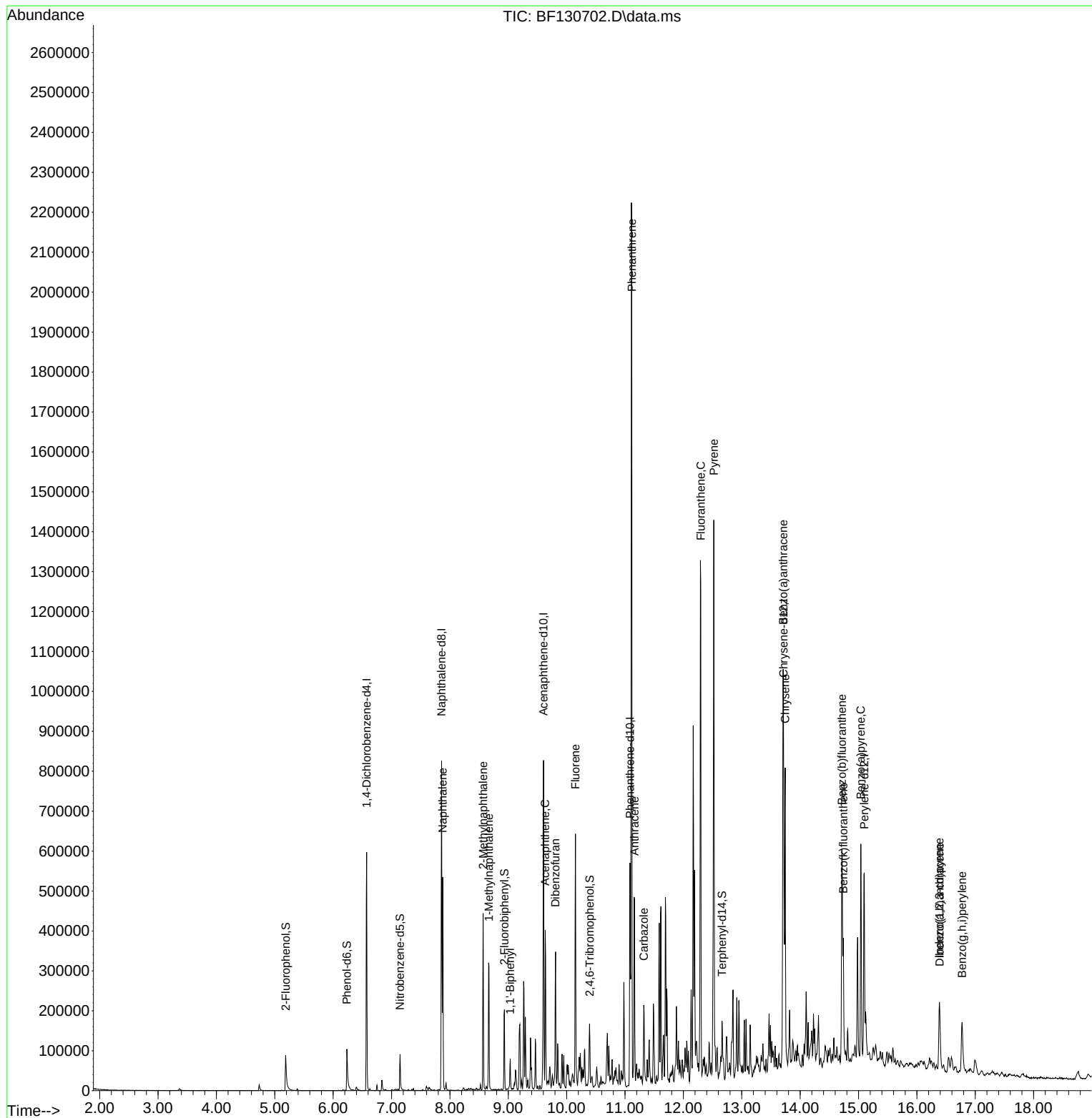
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101822\
Data File : BF130702.D
Acq On : 18 Oct 2022 17:16
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Misc :
ALS Vial : 10 Sample Multiplier: 1

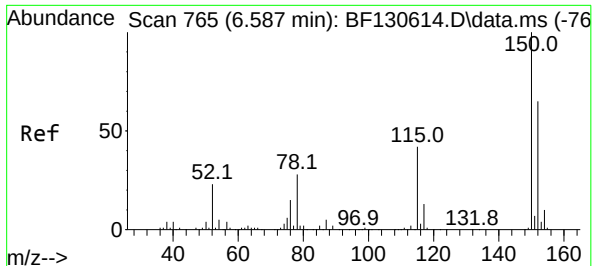
Instrument :
BNA_F
ClientSampleId :
HD-1-101422DL

Quant Time: Oct 18 18:13:50 2022
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101122.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 18 03:15:54 2022
Response via : Initial Calibration

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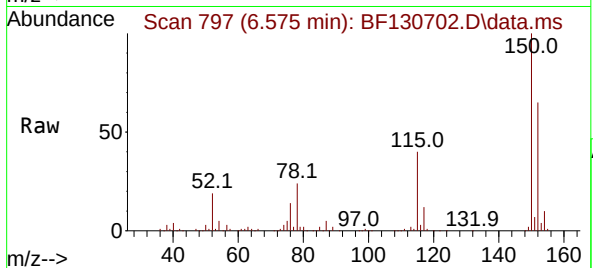
Reviewed By : Christian Giraldo 10/19/2022
Supervised By : Jagrut Upadhyay 10/19/2022





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.575 min Scan# 797
Delta R.T. -0.000 min
Lab File: BF130702.D
Acq: 18 Oct 2022 17:16

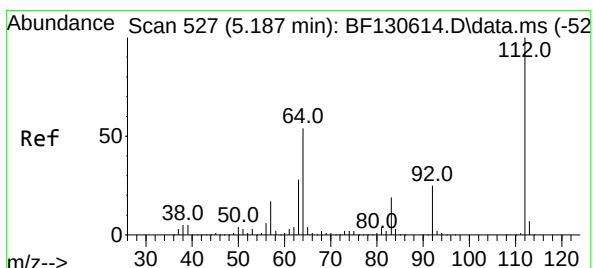
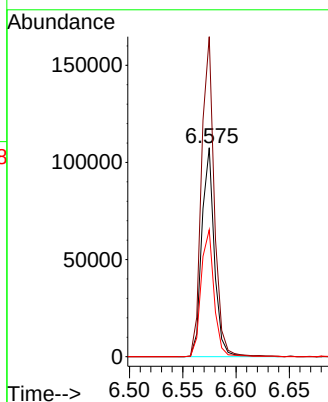
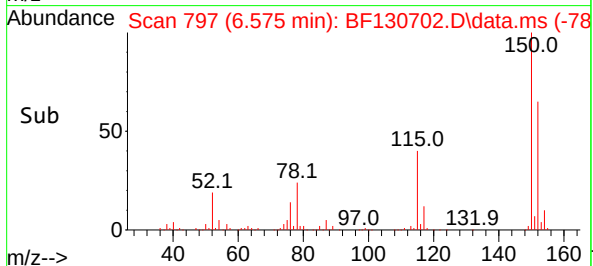
Instrument :
BNA_F
ClientSampleId :
HD-1-101422DL



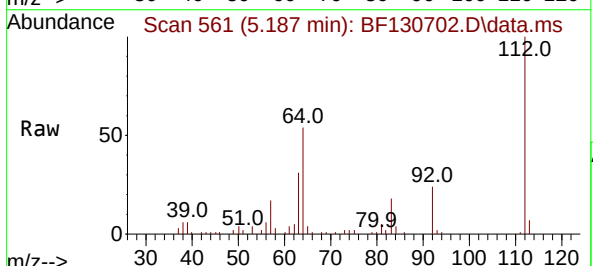
Tgt Ion:152 Resp: 8856
Ion Ratio Lower Upper
152 100
150 153.1 123.8 185.6
115 60.7 52.2 78.4

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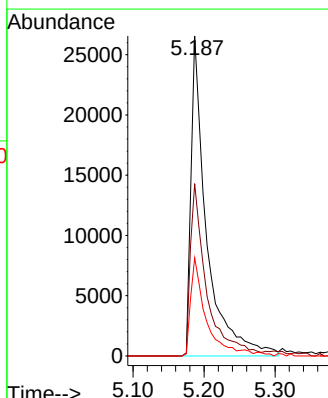
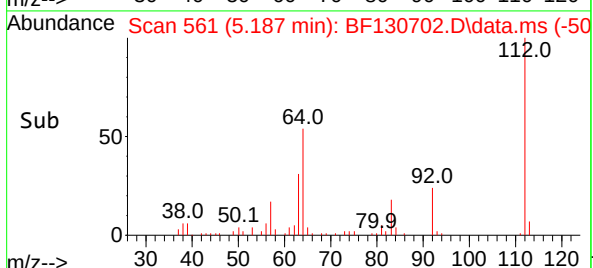
Reviewed By :Christian Giraldo 10/19/2022
Supervised By :Jagrut Upadhyay 10/19/2022

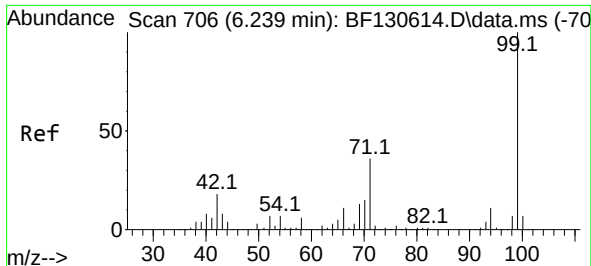


#5
2-Fluorophenol
Concen: 8.269 ng
RT: 5.187 min Scan# 561
Delta R.T. 0.018 min
Lab File: BF130702.D
Acq: 18 Oct 2022 17:16



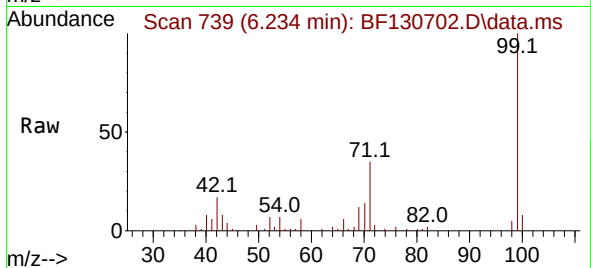
Tgt Ion:112 Resp: 40629
Ion Ratio Lower Upper
112 100
64 53.9 43.5 65.3
63 30.7 22.6 34.0





#7
Phenol-d6
Concen: 8.436 ng
RT: 6.234 min Scan# 71
Delta R.T. 0.006 min
Lab File: BF130702.D
Acq: 18 Oct 2022 17:16

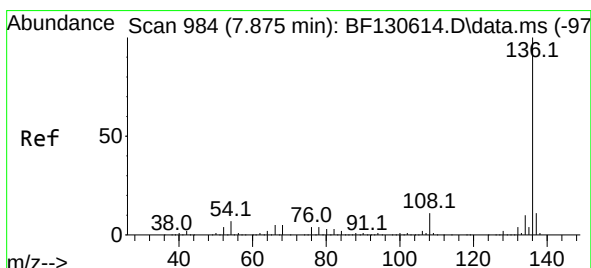
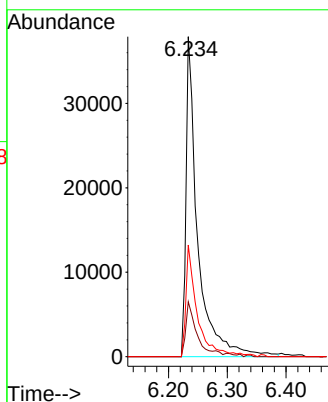
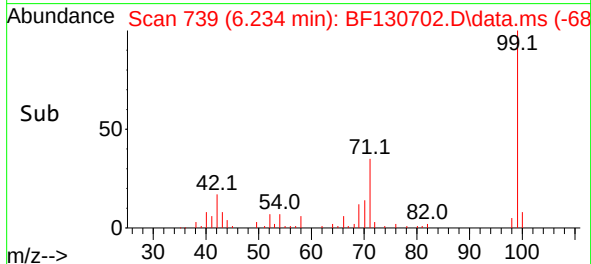
Instrument :
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ClientSampleId :
HD-1-101422DL



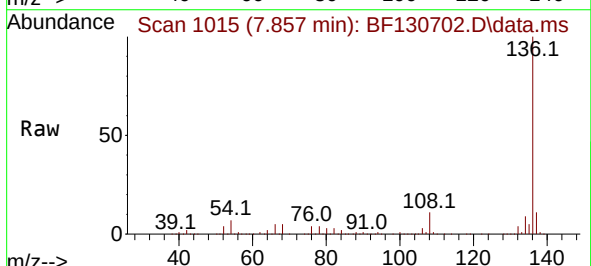
Tgt Ion: 99 Resp: 5211
Ion Ratio Lower Upper
99 100
42 17.2 14.0 21.0
71 34.9 28.8 43.2

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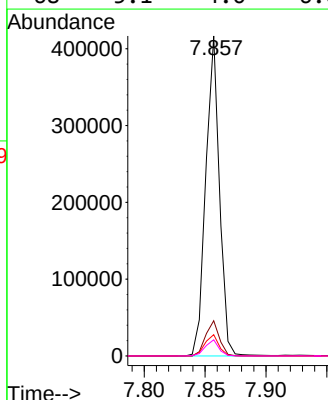
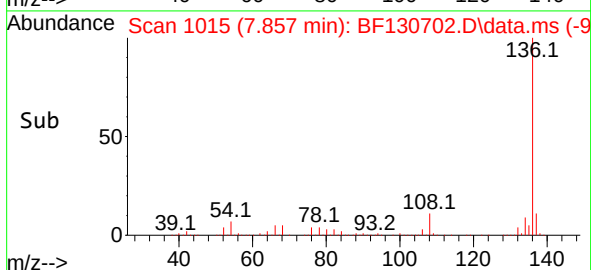
Reviewed By :Christian Giraldo 10/19/2022
Supervised By :Jagrut Upadhyay 10/19/2022

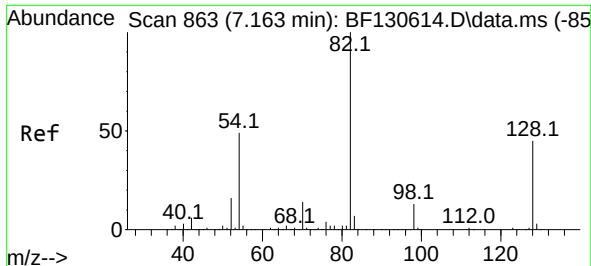


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 7.857 min Scan# 1015
Delta R.T. -0.000 min
Lab File: BF130702.D
Acq: 18 Oct 2022 17:16



Tgt Ion:136 Resp: 325480
Ion Ratio Lower Upper
136 100
137 11.0 8.4 12.6
54 6.7 5.5 8.3
68 5.1 4.0 6.0





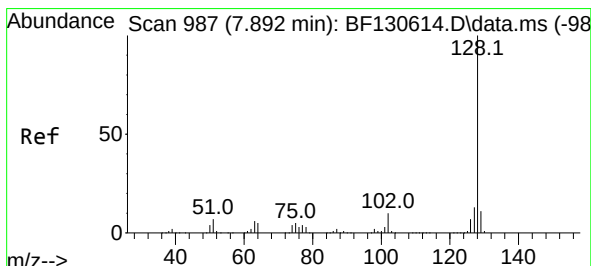
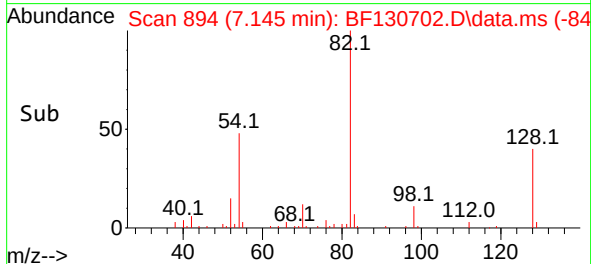
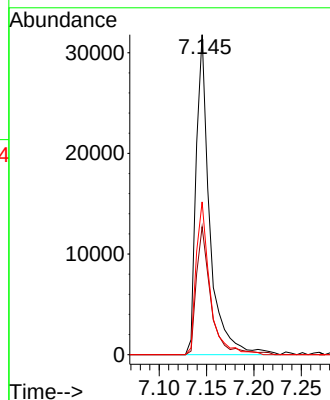
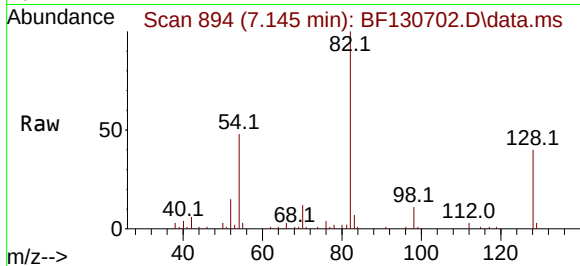
#23
Nitrobenzene-d5
Concen: 5.337 ng
RT: 7.145 min Scan# 894
Delta R.T. -0.006 min
Lab File: BF130702.D
Acq: 18 Oct 2022 17:16

Instrument :
BNA_F
ClientSampleId :
HD-1-101422DL

Tgt Ion: 82 Resp: 31818
Ion Ratio Lower Upper
82 100
128 40.0 35.8 53.6
54 47.7 39.3 58.9

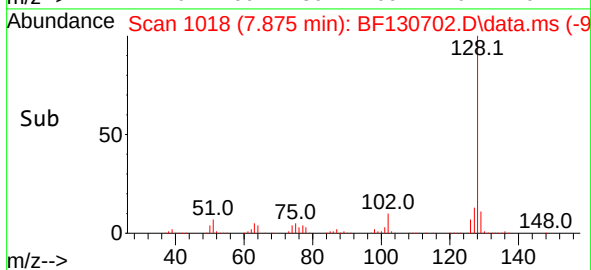
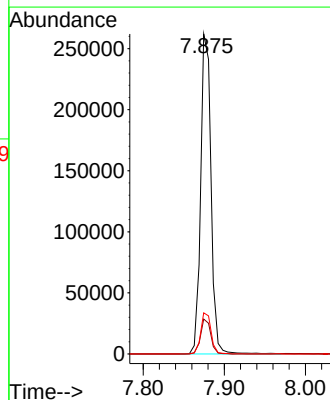
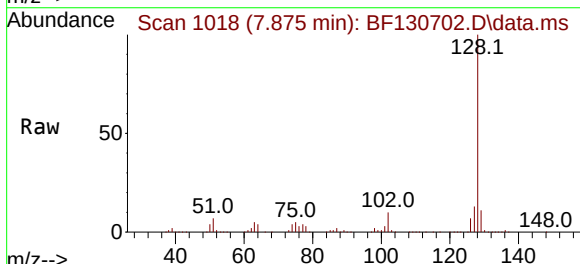
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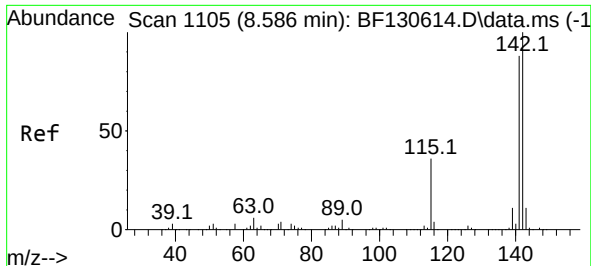
Reviewed By :Christian Giraldo 10/19/2022
Supervised By :Jagrut Upadhyay 10/19/2022



#31
Naphthalene
Concen: 13.848 ng
RT: 7.875 min Scan# 1018
Delta R.T. -0.006 min
Lab File: BF130702.D
Acq: 18 Oct 2022 17:16

Tgt Ion:128 Resp: 233318
Ion Ratio Lower Upper
128 100
129 10.9 9.0 13.4
127 12.8 10.3 15.5





#37

2-Methylnaphthalene

Concen: 9.775 ng

RT: 8.569 min Scan# 1113

Delta R.T. -0.000 min

Lab File: BF130702.D

Acq: 18 Oct 2022 17:16

Instrument :

BNA_F

ClientSampleId :

HD-1-101422DL

Tgt Ion:142 Resp: 10364

Ion Ratio Lower Upper

142 100

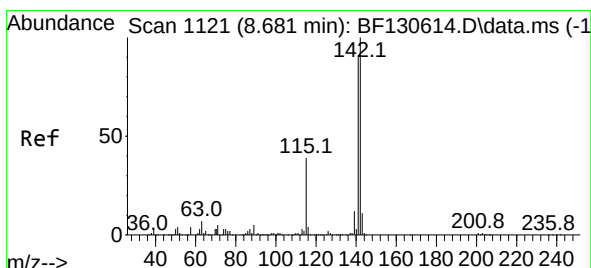
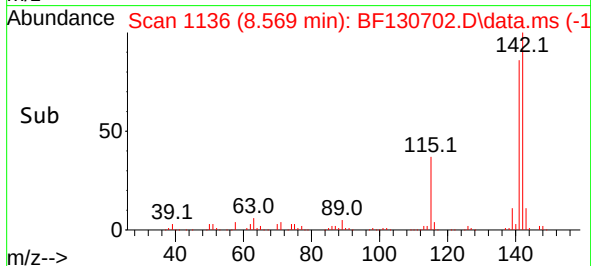
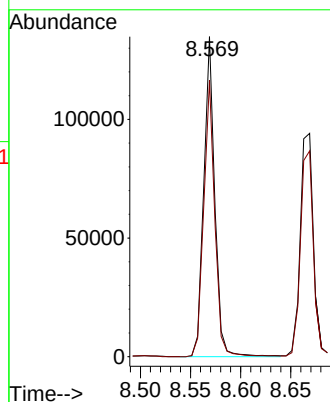
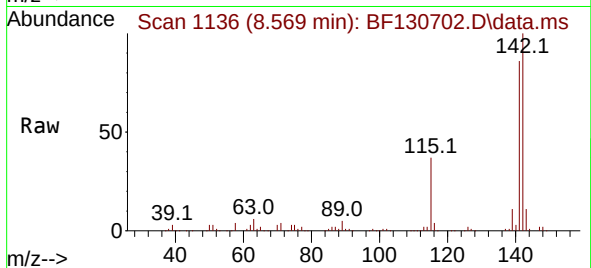
141 86.4 70.7 106.1

Manual Integrations

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Supervised By :Jagrut Upadhyay 10/19/2022



#38

1-Methylnaphthalene

Concen: 8.498 ng

RT: 8.669 min Scan# 1153

Delta R.T. -0.000 min

Lab File: BF130702.D

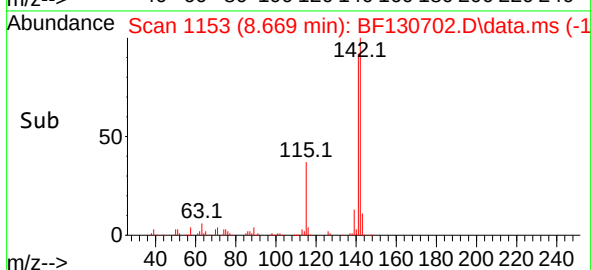
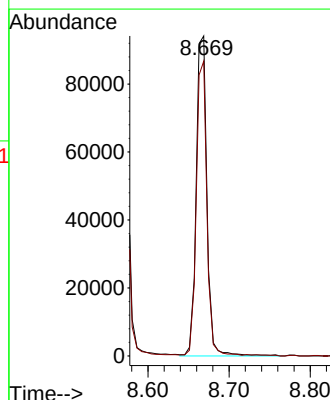
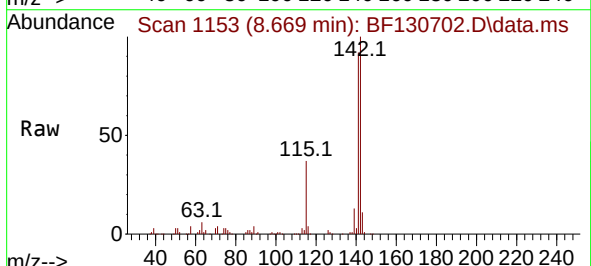
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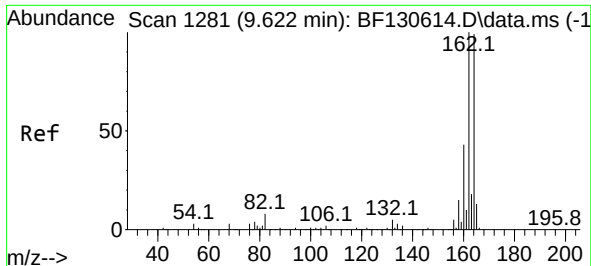
Tgt Ion:142 Resp: 87473

Ion Ratio Lower Upper

142 100

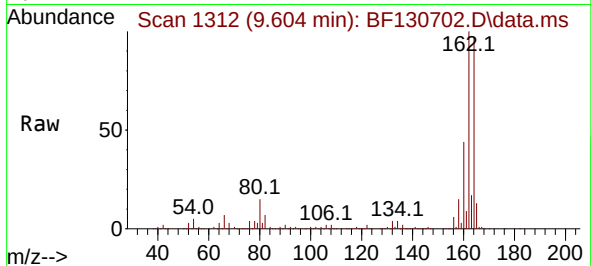
141 92.1 72.6 108.8





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.604 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF130702.D
Acq: 18 Oct 2022 17:16

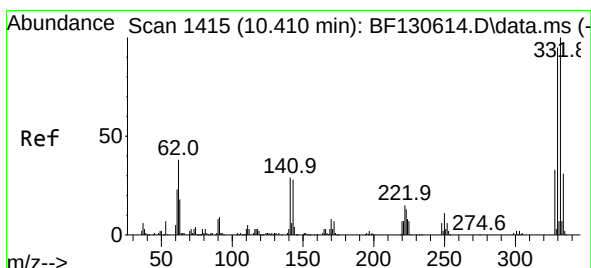
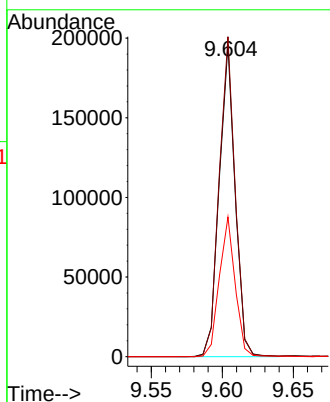
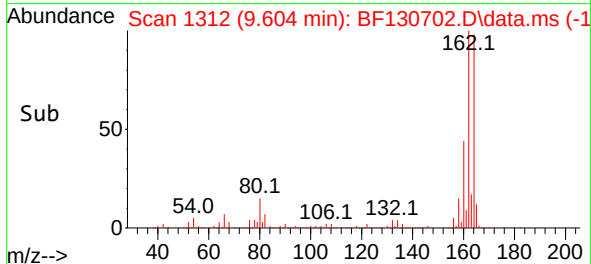
Instrument :
BNA_F
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HD-1-101422DL



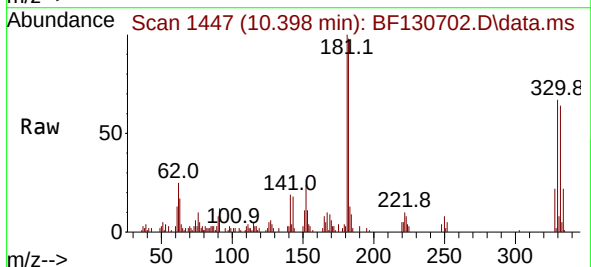
Tgt Ion:164 Resp: 152490
Ion Ratio Lower Upper
164 100
162 102.6 81.0 121.4
160 44.8 34.5 51.7

Manual Integrations
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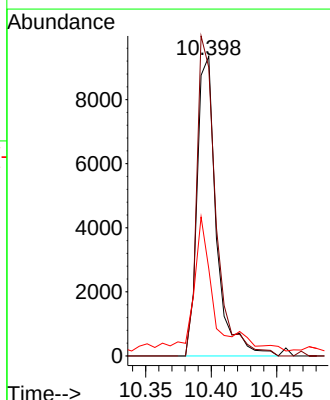
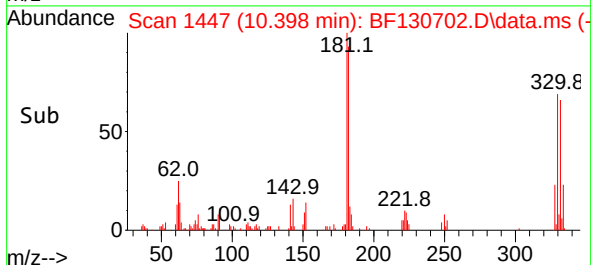
Reviewed By :Christian Giraldo 10/19/2022
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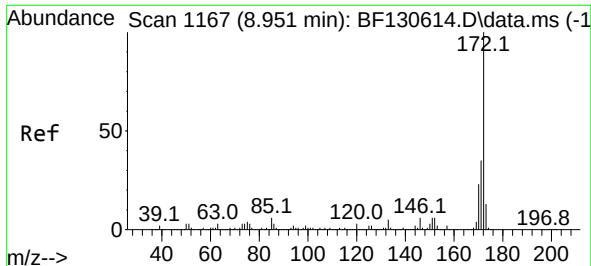


#42
2,4,6-Tribromophenol
Concen: 6.415 ng
RT: 10.398 min Scan# 1447
Delta R.T. -0.000 min
Lab File: BF130702.D
Acq: 18 Oct 2022 17:16



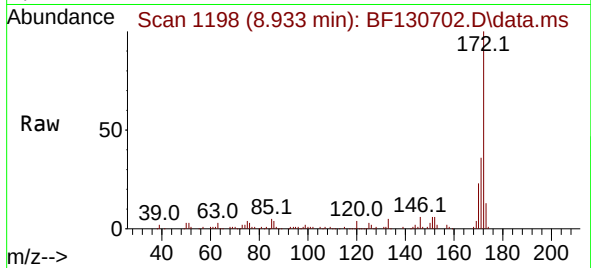
Tgt Ion:330 Resp: 9572
Ion Ratio Lower Upper
330 100
332 106.0 84.2 126.4
141 45.7 26.8 40.2#





#45
2-Fluorobiphenyl
Concen: 6.027 ng
RT: 8.933 min Scan# 1167
Delta R.T. -0.006 min
Lab File: BF130702.D
Acq: 18 Oct 2022 17:16

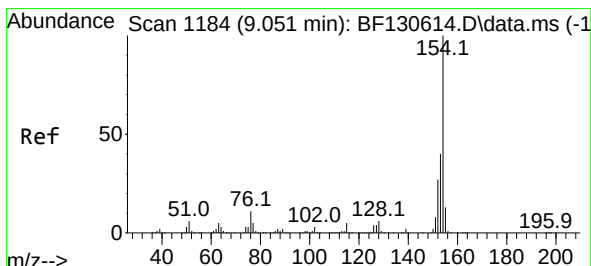
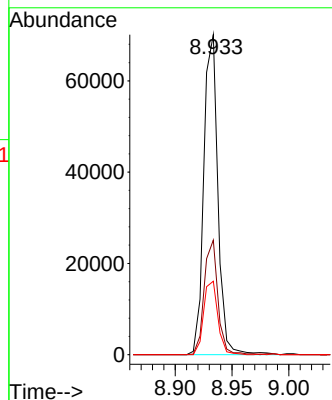
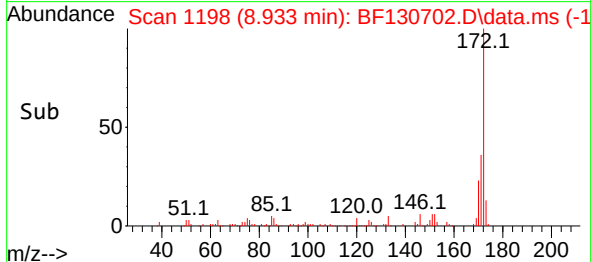
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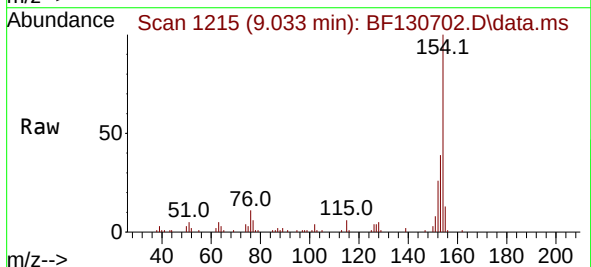
Tgt Ion:172 Resp: 6067
Ion Ratio Lower Upper
172 100
171 35.8 27.8 41.8
170 22.9 18.6 27.8

Manual Integrations
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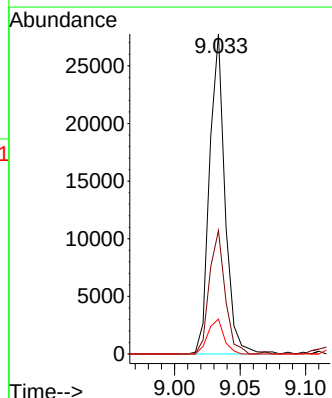
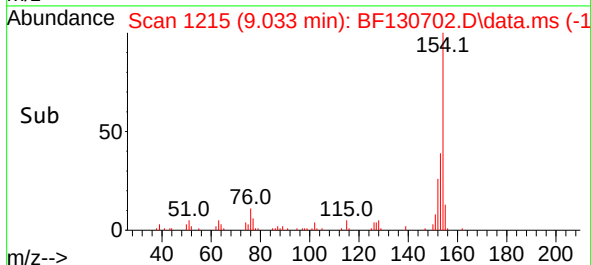
Reviewed By :Christian Giraldo 10/19/2022
Supervised By :Jagrut Upadhyay 10/19/2022

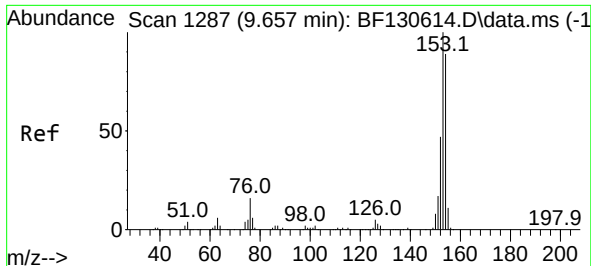


#46
1,1'-Biphenyl
Concen: 2.061 ng
RT: 9.033 min Scan# 1215
Delta R.T. -0.006 min
Lab File: BF130702.D
Acq: 18 Oct 2022 17:16



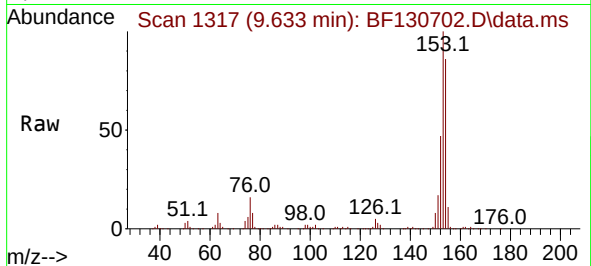
Tgt Ion:154 Resp: 22781
Ion Ratio Lower Upper
154 100
153 38.6 20.0 60.0
76 10.9 0.0 30.8





#52
Acenaphthene
Concen: 9.437 ng
RT: 9.633 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF130702.D
Acq: 18 Oct 2022 17:16

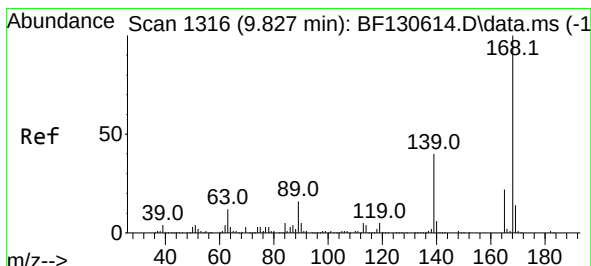
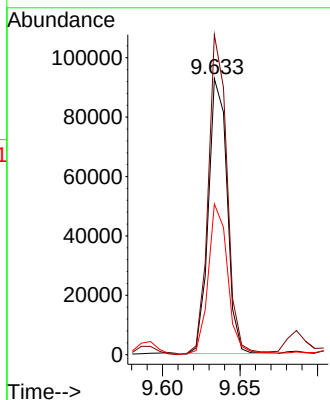
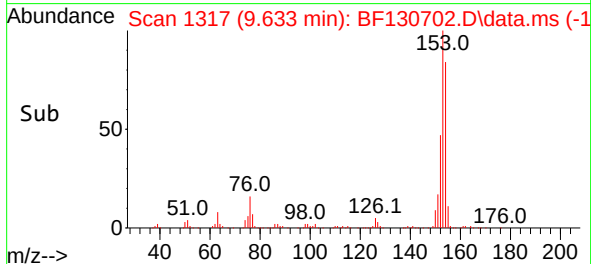
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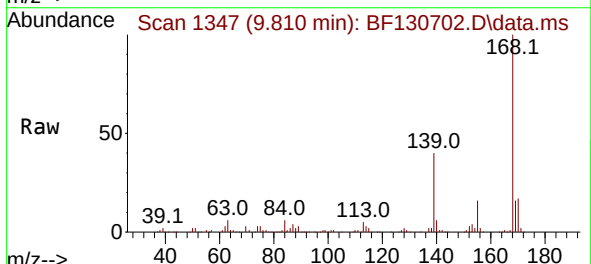
Tgt Ion:154 Resp: 7737
Ion Ratio Lower Upper
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153 116.0 89.6 134.4
152 54.6 42.4 63.6

Manual Integrations
APPROVED

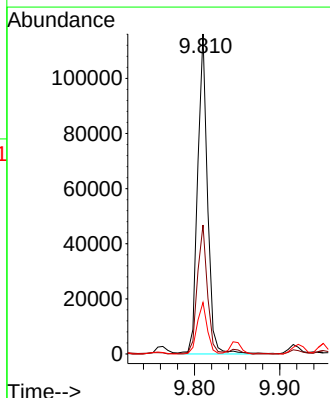
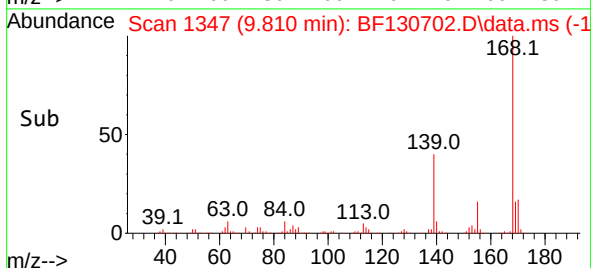
Reviewed By :Christian Giraldo 10/19/2022
Supervised By :Jagrut Upadhyay 10/19/2022

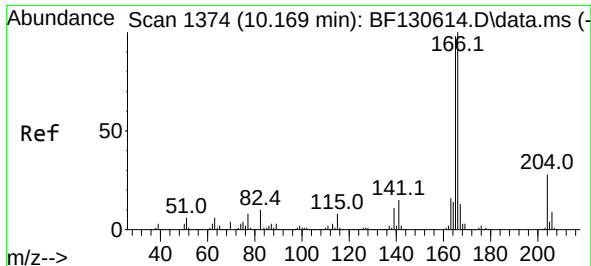


#55
Dibenzofuran
Concen: 7.487 ng
RT: 9.810 min Scan# 1347
Delta R.T. -0.006 min
Lab File: BF130702.D
Acq: 18 Oct 2022 17:16



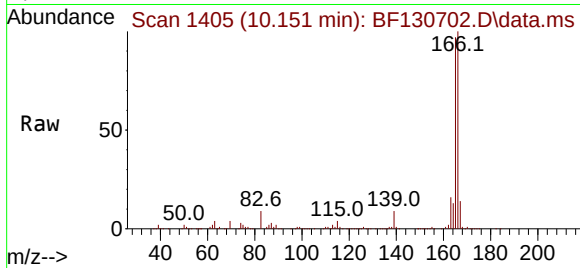
Tgt Ion:168 Resp: 93519
Ion Ratio Lower Upper
168 100
139 40.3 33.0 49.4
169 16.1 10.9 16.3





#58
Fluorene
Concen: 15.699 ng
RT: 10.151 min Scan# 1405
Delta R.T. -0.006 min
Lab File: BF130702.D
Acq: 18 Oct 2022 17:16

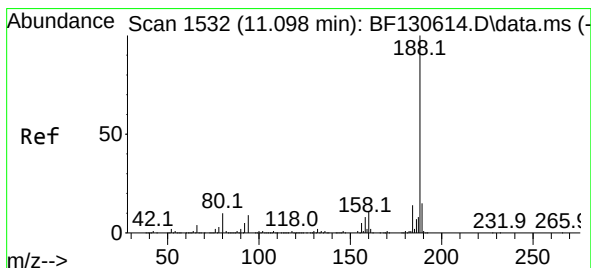
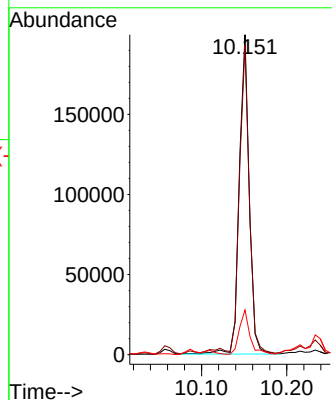
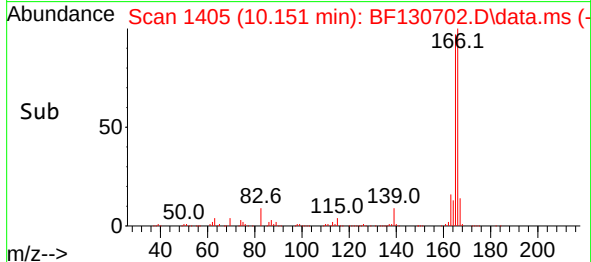
Instrument :
BNA_F
ClientSampleId :
HD-1-101422DL



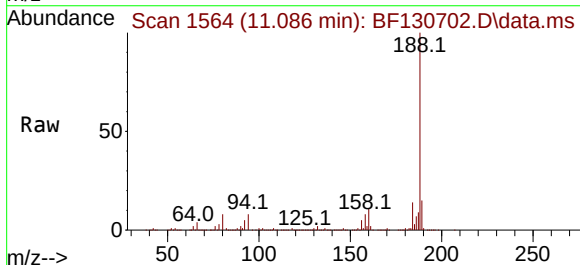
Tgt Ion:166 Resp: 16121
Ion Ratio Lower Upper
166 100
165 96.7 78.2 117.4
167 13.9 10.8 16.2

Manual Integrations
APPROVED

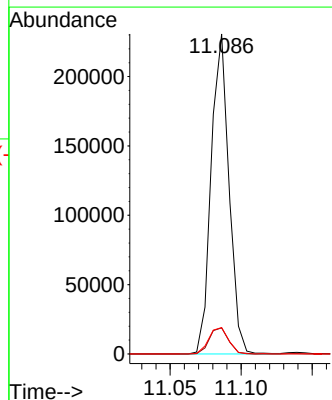
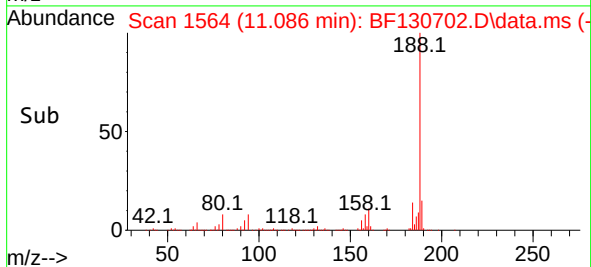
Reviewed By :Christian Giraldo 10/19/2022
Supervised By :Jagrut Upadhyay 10/19/2022

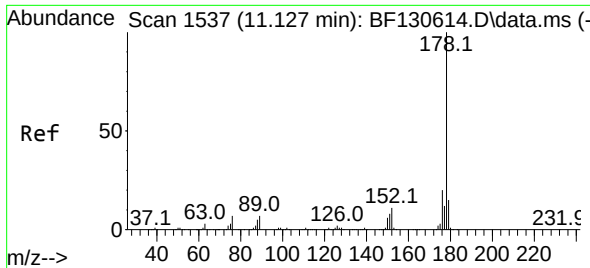


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.086 min Scan# 1564
Delta R.T. -0.000 min
Lab File: BF130702.D
Acq: 18 Oct 2022 17:16



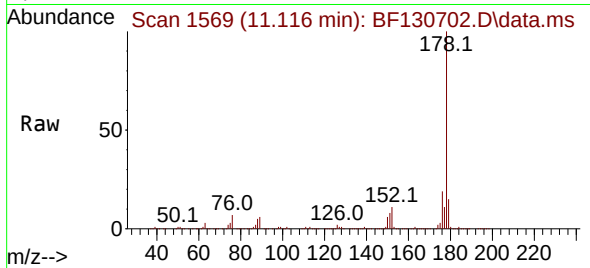
Tgt Ion:188 Resp: 201794
Ion Ratio Lower Upper
188 100
94 8.1 7.4 11.2
80 8.2 8.0 12.0





#71
Phenanthrene
Concen: 79.047 ng
RT: 11.116 min Scan# 11
Delta R.T. 0.006 min
Lab File: BF130702.D
Acq: 18 Oct 2022 17:16

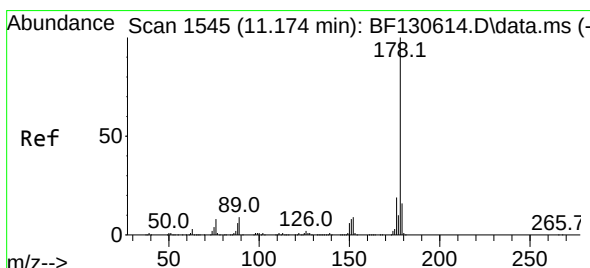
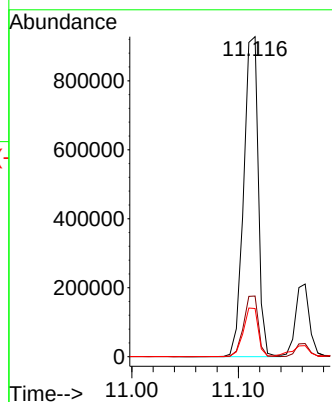
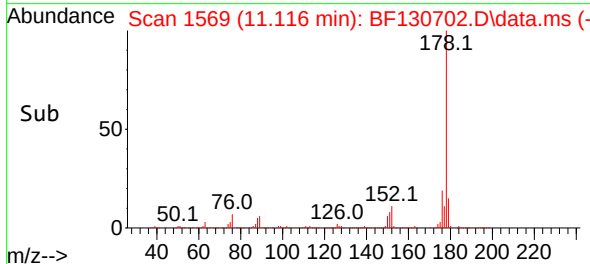
Instrument :
BNA_F
ClientSampleId :
HD-1-101422DL



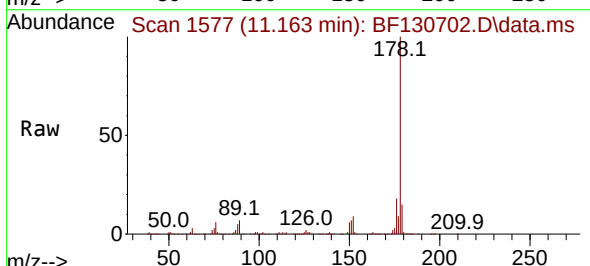
Tgt Ion:178 Resp: 883758
Ion Ratio Lower Upper
178 100
176 19.0 15.7 23.5
179 15.0 12.2 18.4

Manual Integrations
APPROVED

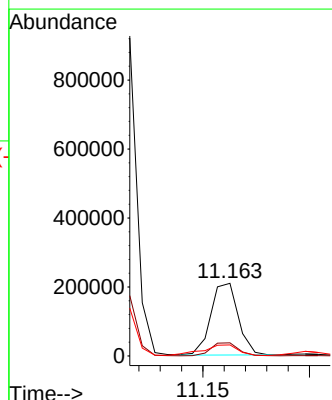
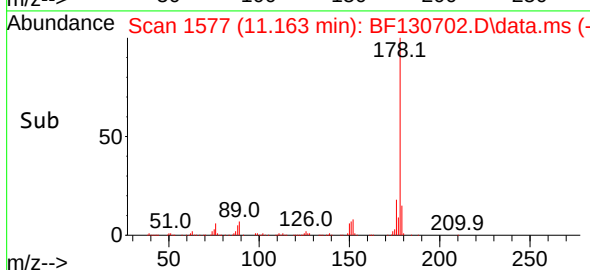
Reviewed By :Christian Giraldo 10/19/2022
Supervised By :Jagrut Upadhyay 10/19/2022

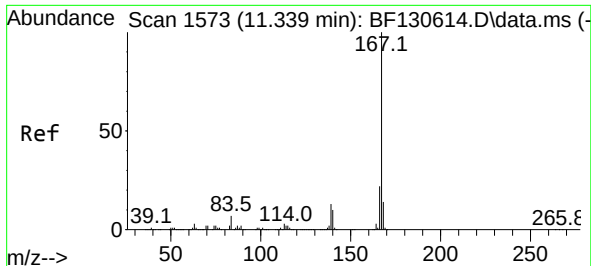


#72
Anthracene
Concen: 17.115 ng
RT: 11.163 min Scan# 1577
Delta R.T. -0.000 min
Lab File: BF130702.D
Acq: 18 Oct 2022 17:16



Tgt Ion:178 Resp: 186875
Ion Ratio Lower Upper
178 100
176 18.0 15.0 22.4
179 15.3 12.5 18.7





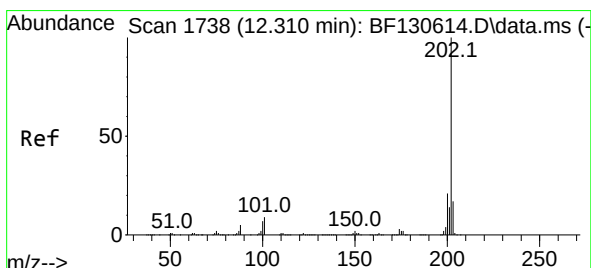
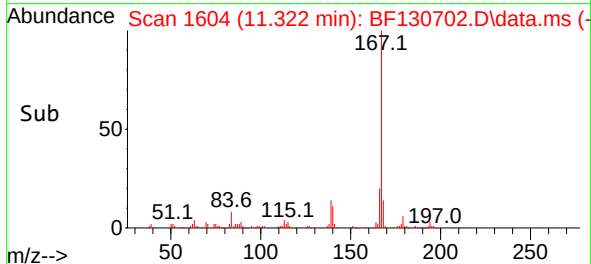
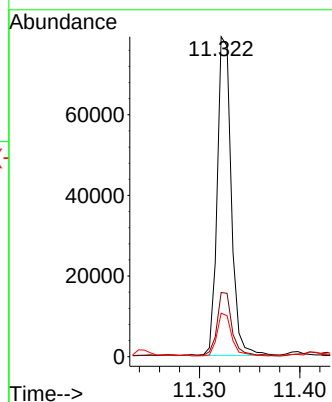
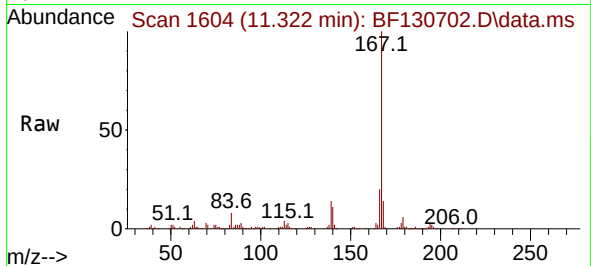
#73
Carbazole
Concen: 7.891 ng
RT: 11.322 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF130702.D
Acq: 18 Oct 2022 17:16

Instrument :
BNA_F
ClientSampleId :
HD-1-101422DL

Tgt Ion:167 Resp: 7688
Ion Ratio Lower Upper
167 100
166 20.0 17.3 25.9
139 13.6 10.7 16.1

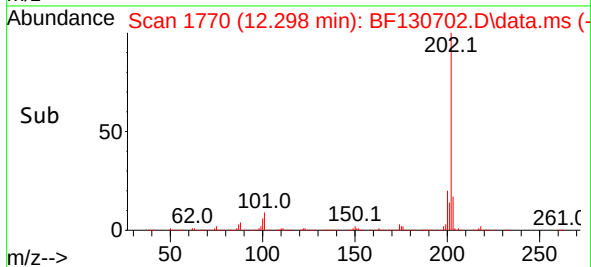
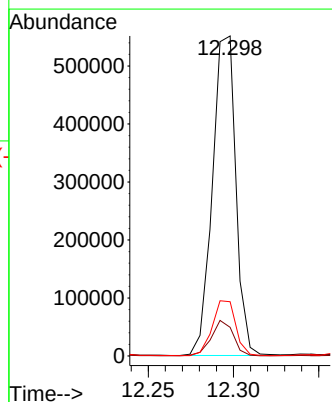
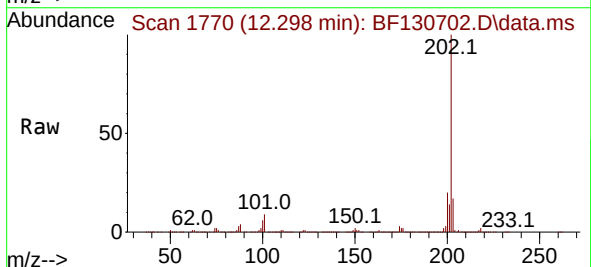
Manual Integrations
APPROVED

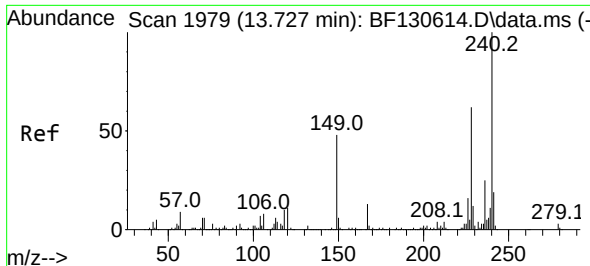
Reviewed By :Christian Giraldo 10/19/2022
Supervised By :Jagrut Upadhyay 10/19/2022



#75
Fluoranthene
Concen: 49.052 ng
RT: 12.298 min Scan# 1770
Delta R.T. -0.000 min
Lab File: BF130702.D
Acq: 18 Oct 2022 17:16

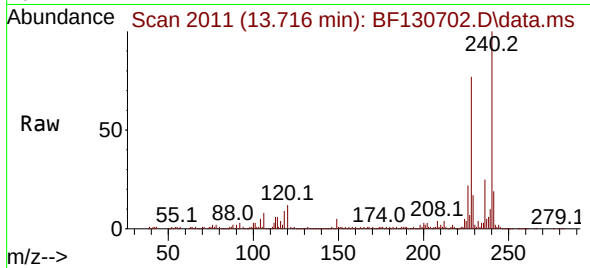
Tgt Ion:202 Resp: 527073
Ion Ratio Lower Upper
202 100
101 8.9 0.0 29.1
203 16.9 0.0 37.3





#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.716 min Scan# 20
Delta R.T. -0.006 min
Lab File: BF130702.D
Acq: 18 Oct 2022 17:16

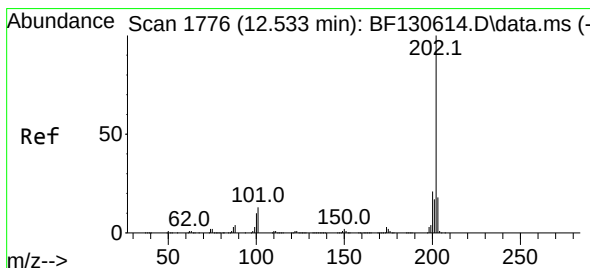
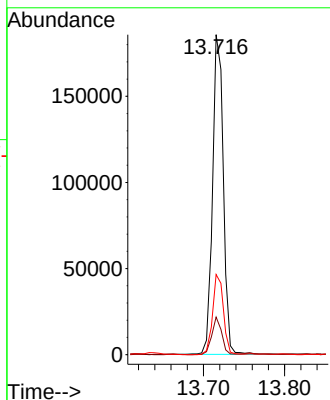
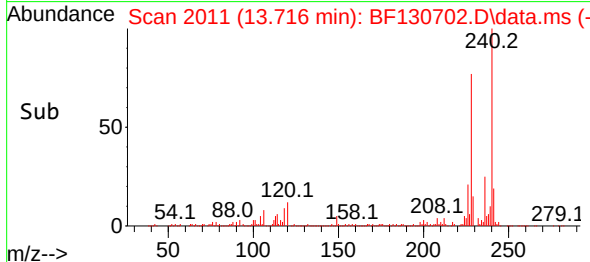
Instrument :
BNA_F
ClientSampleId :
HD-1-101422DL



Tgt Ion:240 Resp: 170470
Ion Ratio Lower Upper
240 100
120 11.7 8.6 13.0
236 25.0 20.2 30.4

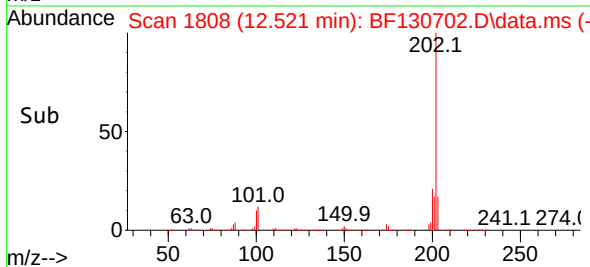
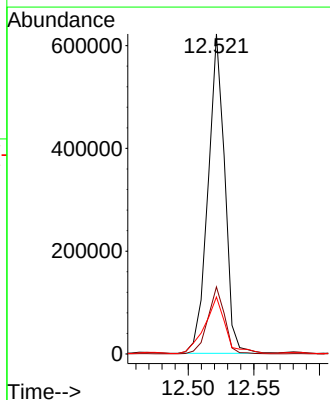
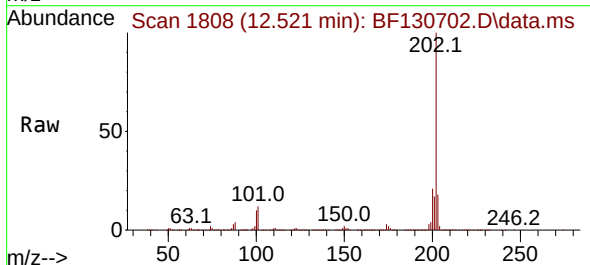
Manual Integrations
APPROVED

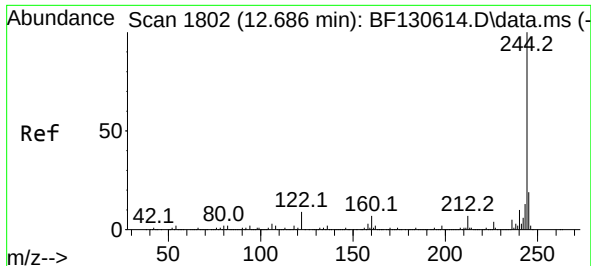
Reviewed By :Christian Giraldo 10/19/2022
Supervised By :Jagrut Upadhyay 10/19/2022



#78
Pyrene
Concen: 37.481 ng
RT: 12.521 min Scan# 1808
Delta R.T. -0.000 min
Lab File: BF130702.D
Acq: 18 Oct 2022 17:16

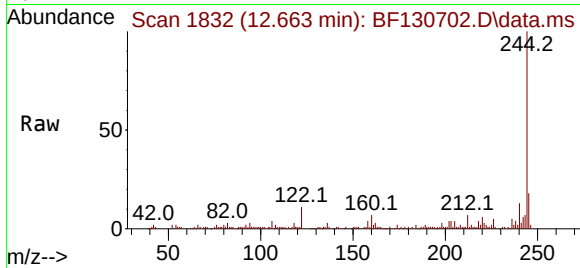
Tgt Ion:202 Resp: 551237
Ion Ratio Lower Upper
202 100
200 20.9 16.7 25.1
203 17.8 14.0 21.0





#79
 Terphenyl-d14
 Concen: 4.121 ng
 RT: 12.663 min Scan# 1802
 Delta R.T. -0.012 min
 Lab File: BF130702.D
 Acq: 18 Oct 2022 17:16

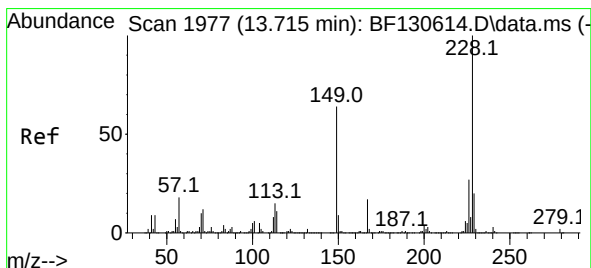
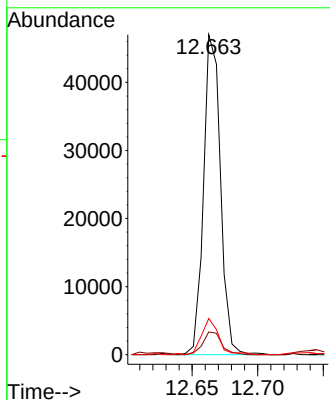
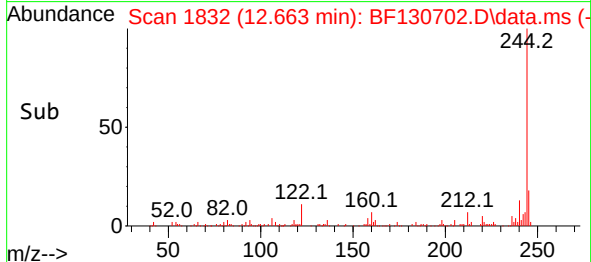
Instrument :
 BNA_F
 ClientSampleId :
 HD-1-101422DL



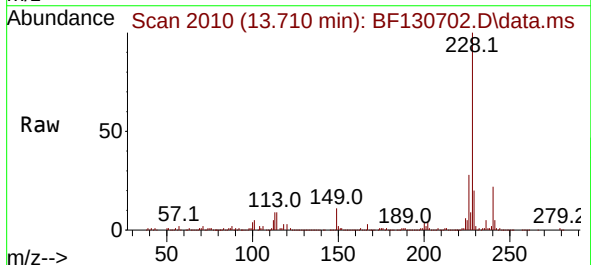
Tgt Ion:244 Resp: 42329
 Ion Ratio Lower Upper
 244 100
 212 7.1 5.4 8.0
 122 11.3 7.5 11.3

Manual Integrations
 APPROVED

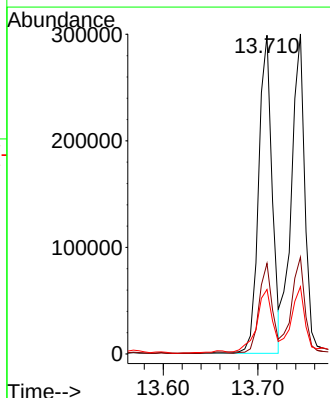
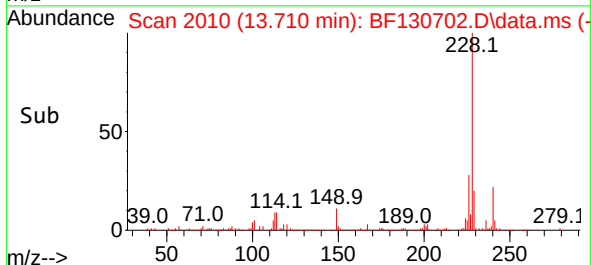
Reviewed By :Christian Giraldo 10/19/2022
 Supervised By :Jagrut Upadhyay 10/19/2022

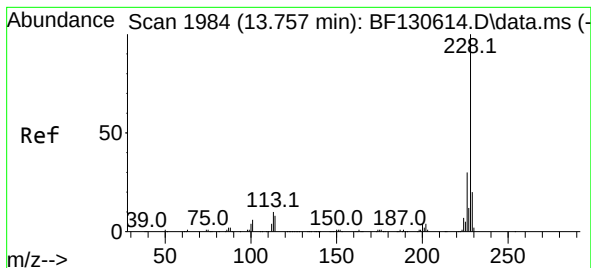


#81
 Benzo(a)anthracene
 Concen: 25.760 ng
 RT: 13.710 min Scan# 2010
 Delta R.T. -0.000 min
 Lab File: BF130702.D
 Acq: 18 Oct 2022 17:16



Tgt Ion:228 Resp: 295904
 Ion Ratio Lower Upper
 228 100
 226 28.4 21.4 32.2
 229 20.2 15.8 23.8





#83

Chrysene

Concen: 27.247 ng

RT: 13.745 min Scan# 20

Delta R.T. -0.000 min

Lab File: BF130702.D

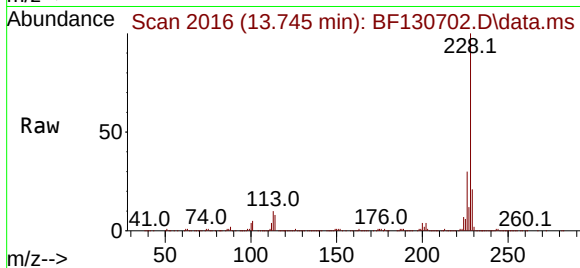
Acq: 18 Oct 2022 17:16

Instrument :

BNA_F

ClientSampleId :

HD-1-101422DL



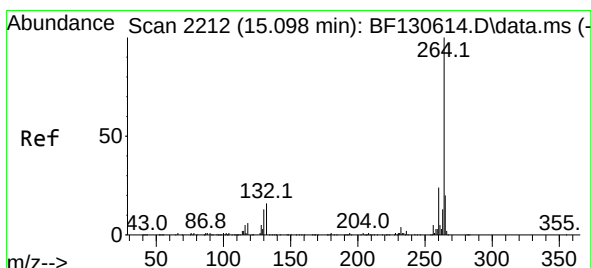
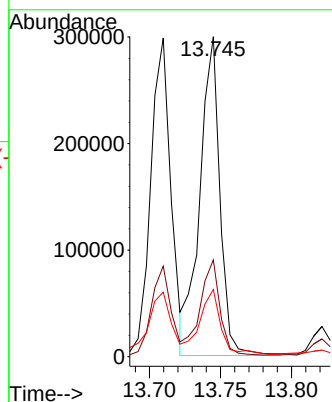
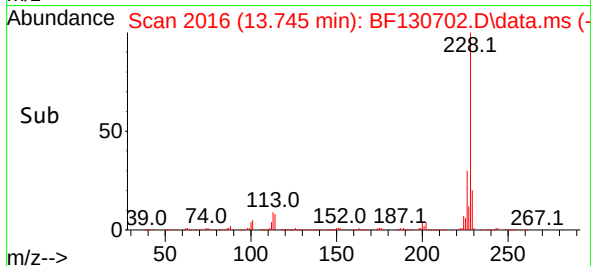
Tgt Ion: 228 Resp: 296744

Ion	Ratio	Lower	Upper
228	100		
226	30.3	23.9	35.9
229	21.0	15.9	23.9

Manual Integrations

APPROVED

Reviewed By : Christian Giraldo 10/19/2022
Supervised By : Jagrut Upadhyay 10/19/2022



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.098 min Scan# 2246

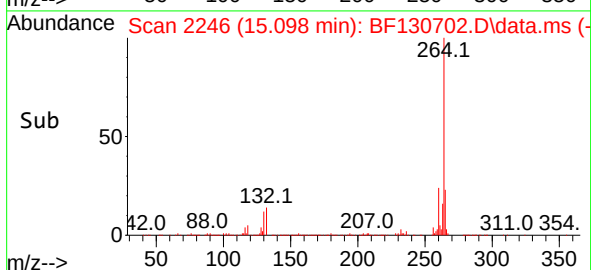
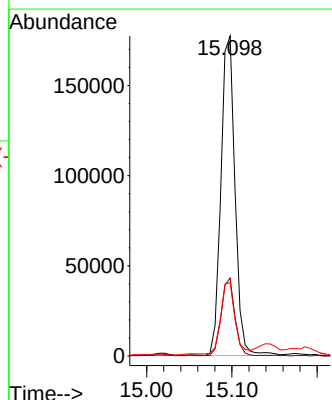
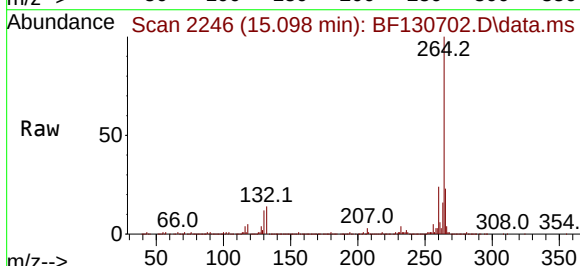
Delta R.T. 0.012 min

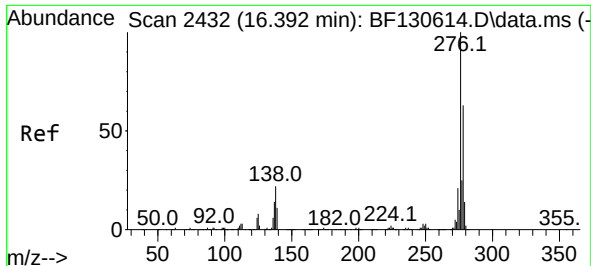
Lab File: BF130702.D

Acq: 18 Oct 2022 17:16

Tgt Ion: 264 Resp: 203680

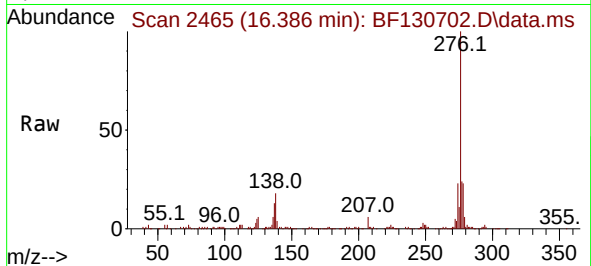
Ion	Ratio	Lower	Upper
264	100		
260	24.3	19.1	28.7
265	22.9	16.4	24.6





#87
Indeno(1,2,3-cd)pyrene
Concen: 6.630 ng
RT: 16.386 min Scan# 2432
Delta R.T. 0.006 min
Lab File: BF130702.D
Acq: 18 Oct 2022 17:16

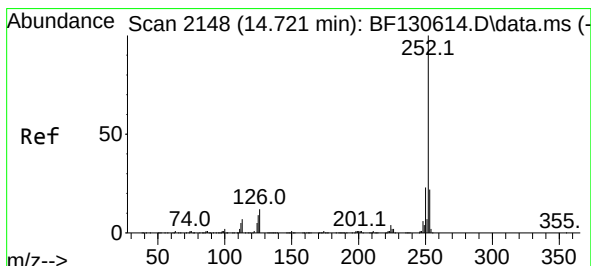
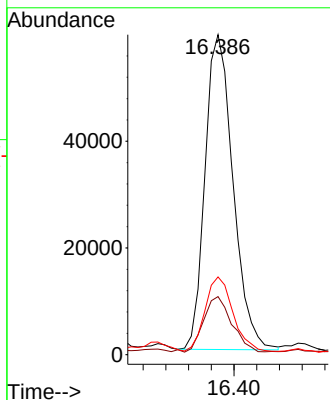
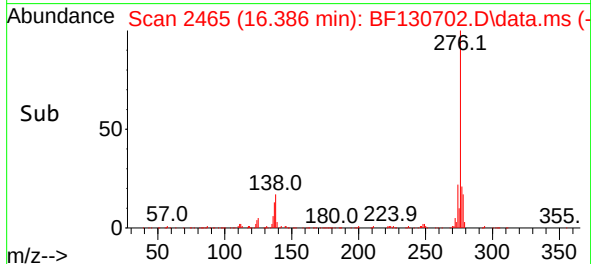
Instrument :
BNA_F
ClientSampleId :
HD-1-101422DL



Tgt Ion:276 Resp: 101070
Ion Ratio Lower Upper
276 100
138 18.5 18.0 27.0
277 23.7 20.0 30.0

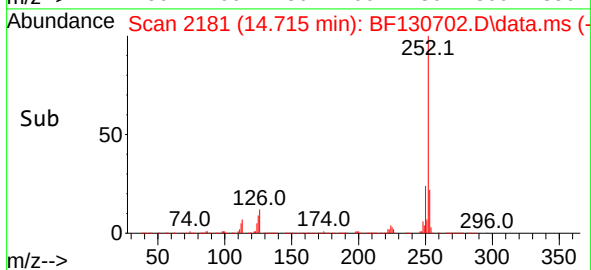
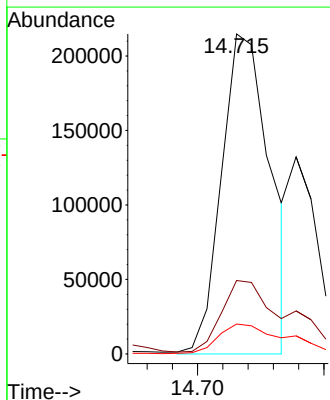
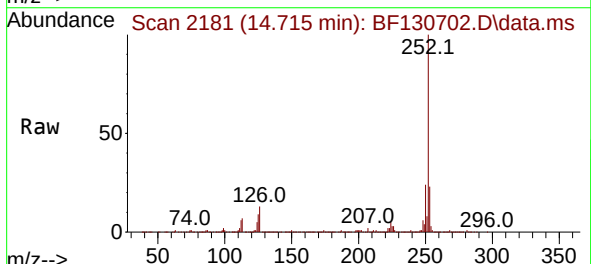
Manual Integrations
APPROVED

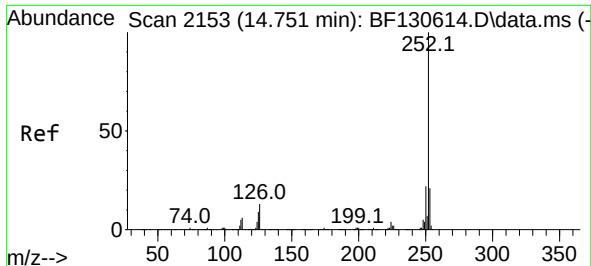
Reviewed By :Christian Giraldo 10/19/2022
Supervised By :Jagrut Upadhyay 10/19/2022



#88
Benzo(b)fluoranthene
Concen: 22.311 ng m
RT: 14.715 min Scan# 2181
Delta R.T. -0.000 min
Lab File: BF130702.D
Acq: 18 Oct 2022 17:16

Tgt Ion:252 Resp: 287755
Ion Ratio Lower Upper
252 100
253 23.0 17.4 26.2
125 9.4 7.4 11.0





#89

Benzo(k)fluoranthene

Concen: 7.595 ng m

RT: 14.739 min Scan# 2153

Delta R.T. -0.000 min

Lab File: BF130702.D

Acq: 18 Oct 2022 17:16

Instrument :

BNA_F

ClientSampleId :

HD-1-101422DL

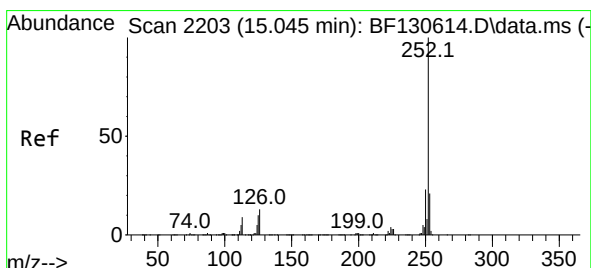
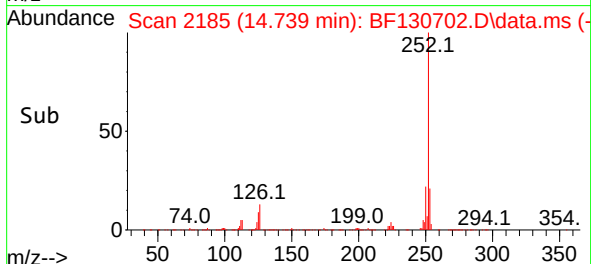
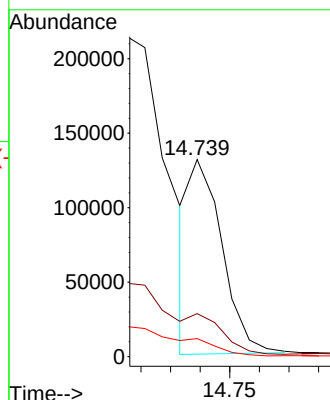
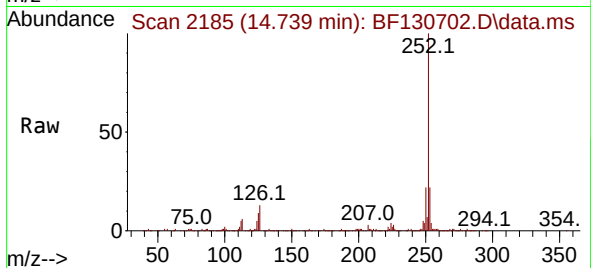
Tgt Ion:252 Resp: 9974
 Ion Ratio Lower Upper
 252 100
 253 21.9 17.0 25.4
 125 9.2 7.2 10.8

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 10/19/2022

Supervised By :Jagrut Upadhyay 10/19/2022



#90

Benzo(a)pyrene

Concen: 21.217 ng

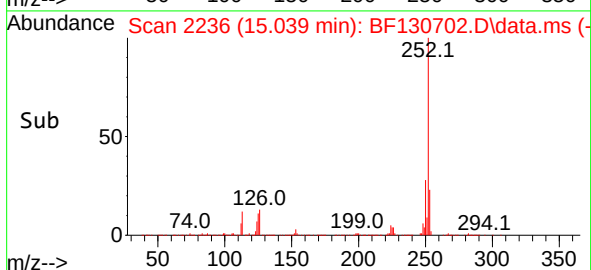
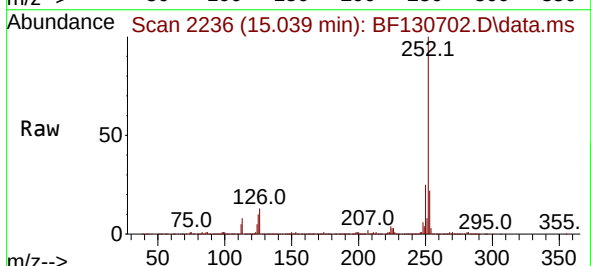
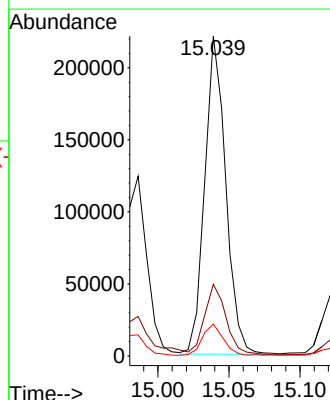
RT: 15.039 min Scan# 2236

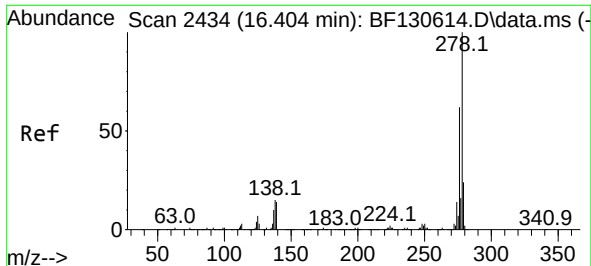
Delta R.T. -0.000 min

Lab File: BF130702.D

Acq: 18 Oct 2022 17:16

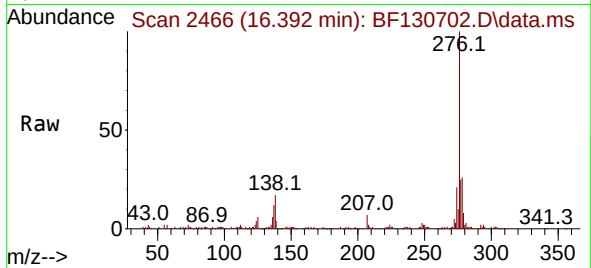
Tgt Ion:252 Resp: 227750
 Ion Ratio Lower Upper
 252 100
 253 22.4 17.0 25.6
 125 10.0 8.4 12.6





#91
Dibenzo(a,h)anthracene
Concen: 2.305 ng
RT: 16.392 min Scan# 2434
Delta R.T. -0.000 min
Lab File: BF130702.D
Acq: 18 Oct 2022 17:16

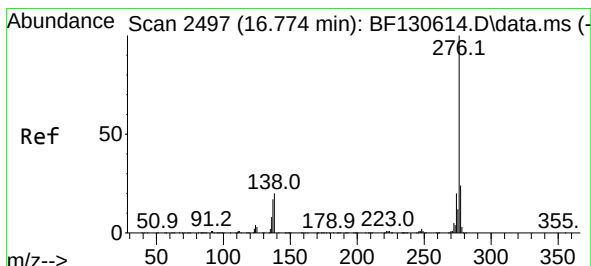
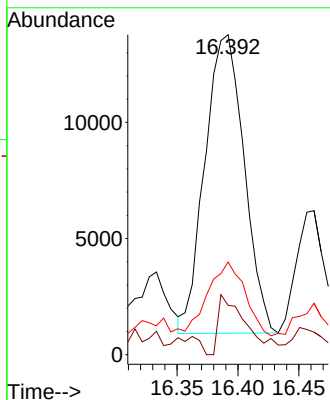
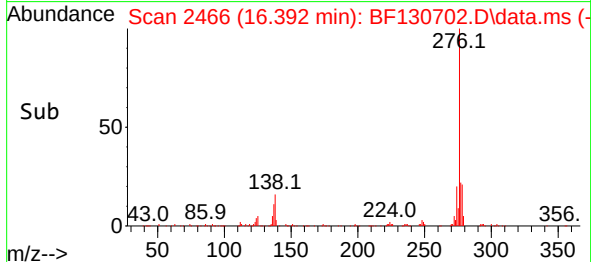
Instrument :
BNA_F
ClientSampleId :
HD-1-101422DL



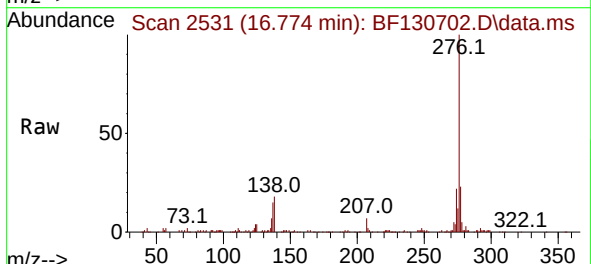
Tgt Ion: 278 Resp: 2879
Ion Ratio Lower Upper
278 100
139 15.4 11.1 16.7
279 29.0 19.0 28.4

Manual Integrations
APPROVED

Reviewed By : Christian Giraldo 10/19/2022
Supervised By : Jagrut Upadhyay 10/19/2022



#92
Benzo(g,h,i)perylene
Concen: 8.268 ng
RT: 16.774 min Scan# 2531
Delta R.T. 0.006 min
Lab File: BF130702.D
Acq: 18 Oct 2022 17:16



Tgt Ion: 276 Resp: 96233
Ion Ratio Lower Upper
276 100
277 23.4 18.9 28.3
138 18.5 15.9 23.9

