

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022323\
 Data File : BF132536.D
 Acq On : 23 Feb 2023 23:37
 Operator : CG\JU
 Sample : 01640-02DL 5X
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP-2DL

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 02/24/2023
 Supervised By : Jagrut Upadhyay 02/24/2023

Quant Time: Feb 24 00:42:11 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022223.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Feb 23 00:59:42 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.007	152	156415	20.000	ng	0.00
21) Naphthalene-d8	8.295	136	526662	20.000	ng	0.00
39) Acenaphthene-d10	10.054	164	233899	20.000	ng	0.00
64) Phenanthrene-d10	11.554	188	382676	20.000	ng	0.00
76) Chrysene-d12	14.207	240	298201	20.000	ng	#-0.01
86) Perylene-d12	15.765	264	237306	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.631	112	222882	23.126	ng	0.00
7) Phenol-d6	6.631	99	280649	22.313	ng	-0.01
23) Nitrobenzene-d5	7.566	82	168217	15.154	ng	-0.01
42) 2,4,6-Tribromophenol	10.848	330	46414	18.374	ng	-0.01
45) 2-Fluorobiphenyl	9.366	172	274257	17.854	ng	-0.01
79) Terphenyl-d14	13.136	244	250068	14.178	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	8.313	128	133984	4.969	ng	99
37) 2-Methylnaphthalene	9.007	142	198943	10.827	ng	99
38) 1-Methylnaphthalene	9.107	142	174199	10.145	ng	98
46) 1,1'-Biphenyl	9.472	154	37041	2.092	ng	96
49) Acenaphthylene	9.919	152	90621	4.057	ng	97
52) Acenaphthene	10.089	154	53419	3.766	ng	95
55) Dibenzofuran	10.260	168	52564	2.542	ng	# 92
58) Fluorene	10.607	166	181447	11.471	ng	98
71) Phenanthrene	11.577	178	921830	46.500	ng	98
72) Anthracene	11.630	178	172699	8.460	ng	99
75) Fluoranthene	12.771	202	570606	26.329	ng	99
78) Pyrene	13.007	202	725366	26.755	ng	98
81) Benzo(a)anthracene	14.201	228	260730	11.686	ng	94
83) Chrysene	14.236	228	250672	12.014	ng	99
87) Indeno(1,2,3-cd)pyrene	17.359	276	63382	4.076	ng	97
88) Benzo(b)fluoranthene	15.301	252	182452m	11.473	ng	
89) Benzo(k)fluoranthene	15.324	252	56756m	3.647	ng	
90) Benzo(a)pyrene	15.695	252	155115	10.422	ng	98
92) Benzo(g,h,i)perylene	17.848	276	65306	6.022	ng	93

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

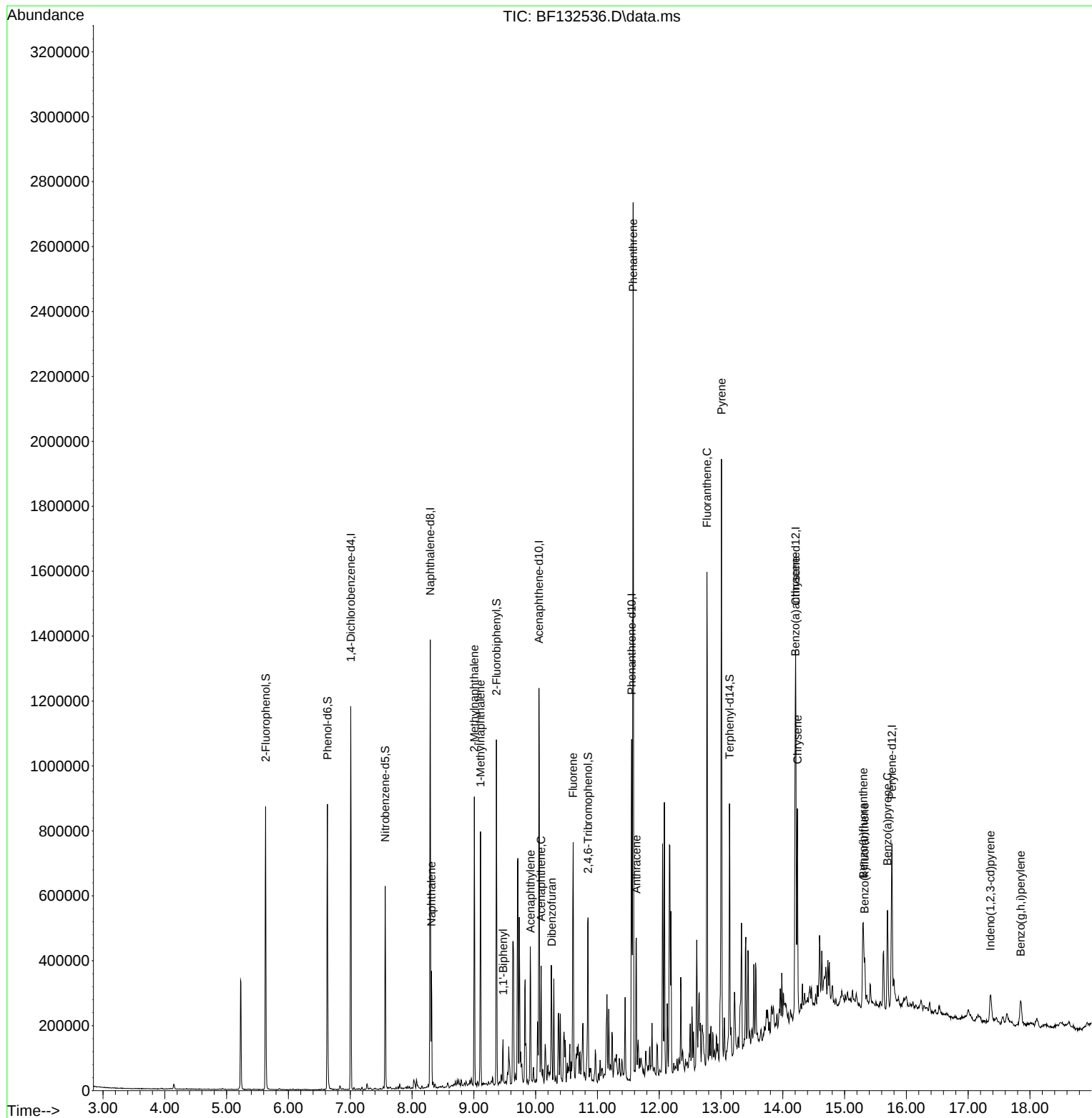
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022323\
Data File : BF132536.D
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ALS Vial : 22 Sample Multiplier: 1

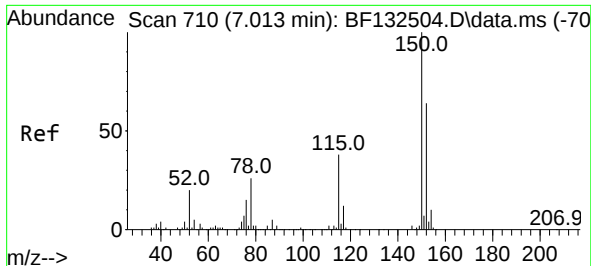
Instrument :
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Quant Time: Feb 24 00:42:11 2023
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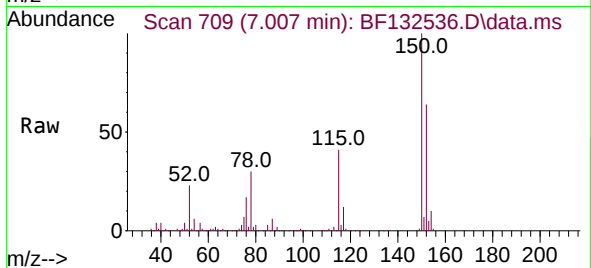
Reviewed By : Christian Giraldo 02/24/2023
Supervised By : Jagrut Upadhyay 02/24/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.007 min Scan# 70
Delta R.T. -0.006 min
Lab File: BF132536.D
Acq: 23 Feb 2023 23:37

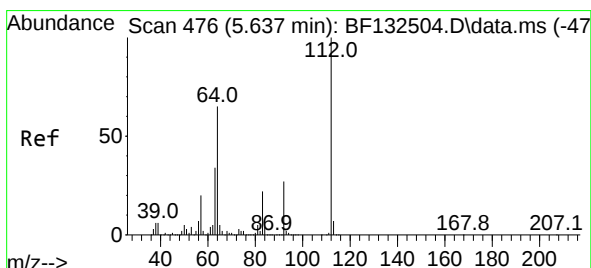
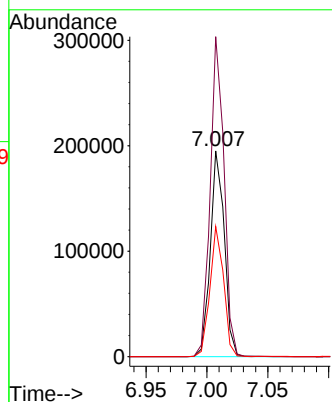
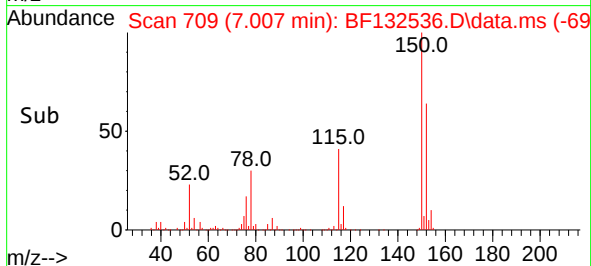
Instrument :
BNA_F
ClientSampleId :
TP-2DL



Tgt Ion:152 Resp: 156415
Ion Ratio Lower Upper
152 100
150 155.6 125.4 188.2
115 63.2 47.8 71.6

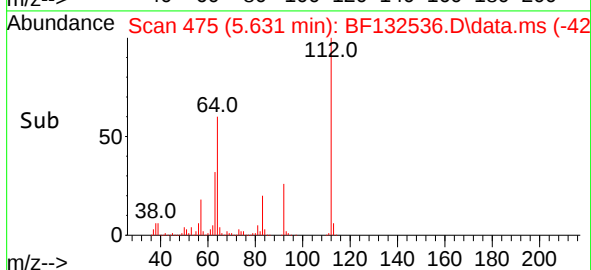
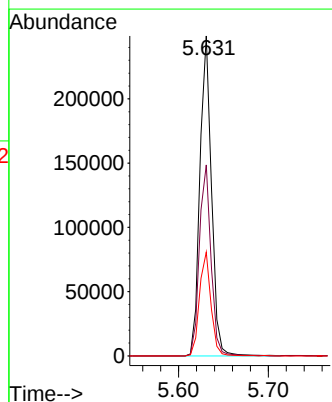
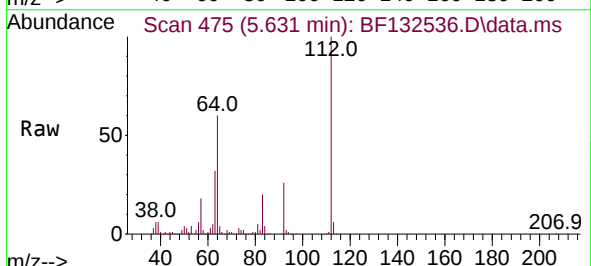
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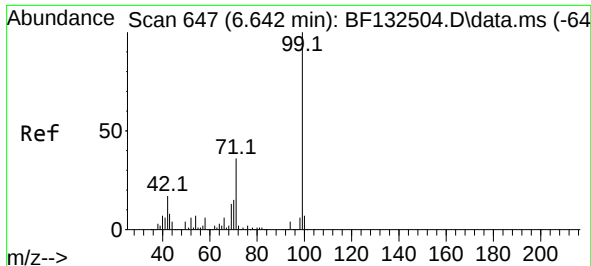
Reviewed By :Christian Giraldo 02/24/2023
Supervised By :Jagrut Upadhyay 02/24/2023



#5
2-Fluorophenol
Concen: 23.126 ng
RT: 5.631 min Scan# 475
Delta R.T. -0.006 min
Lab File: BF132536.D
Acq: 23 Feb 2023 23:37

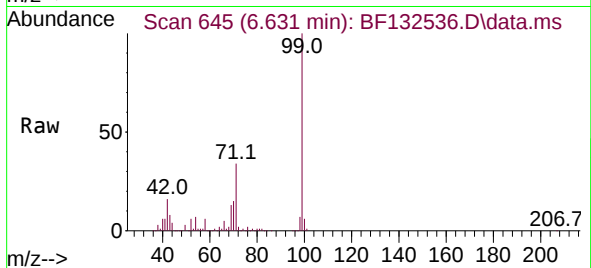
Tgt Ion:112 Resp: 222882
Ion Ratio Lower Upper
112 100
64 59.7 51.6 77.4
63 32.4 27.4 41.2





#7
Phenol-d6
Concen: 22.313 ng
RT: 6.631 min Scan# 647
Delta R.T. -0.012 min
Lab File: BF132536.D
Acq: 23 Feb 2023 23:37

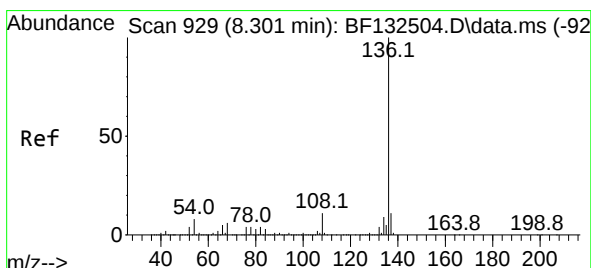
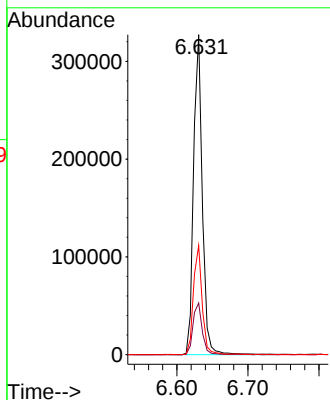
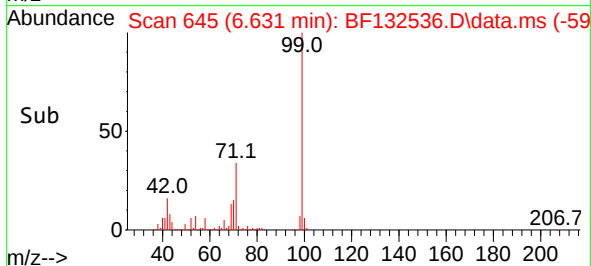
Instrument :
BNA_F
ClientSampleId :
TP-2DL



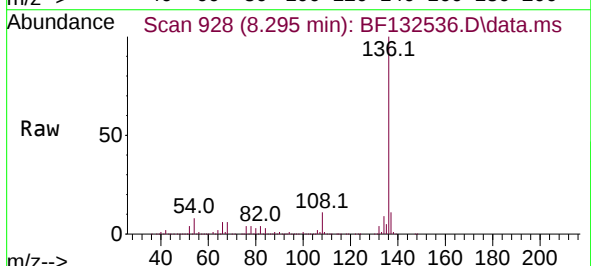
Tgt Ion: 99 Resp: 280649
Ion Ratio Lower Upper
99 100
42 16.1 13.9 20.9
71 34.1 28.5 42.7

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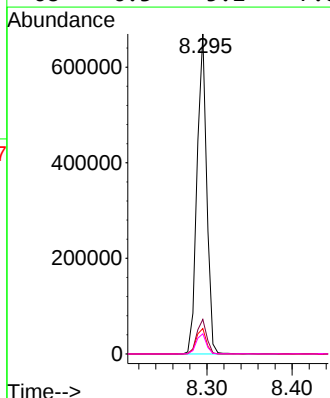
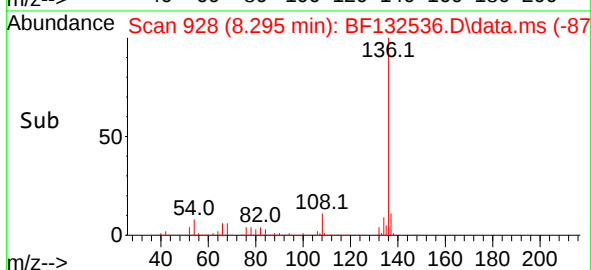
Reviewed By :Christian Giraldo 02/24/2023
Supervised By :Jagrut Upadhyay 02/24/2023

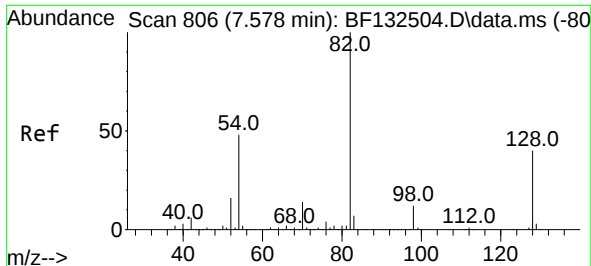


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.295 min Scan# 928
Delta R.T. -0.006 min
Lab File: BF132536.D
Acq: 23 Feb 2023 23:37



Tgt Ion:136 Resp: 526662
Ion Ratio Lower Upper
136 100
137 10.8 8.9 13.3
54 7.9 6.2 9.4
68 6.3 5.2 7.8





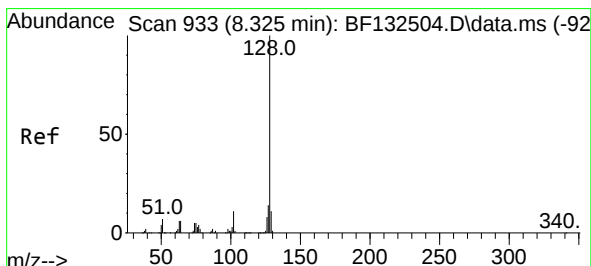
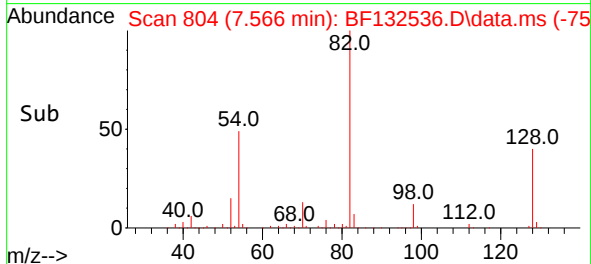
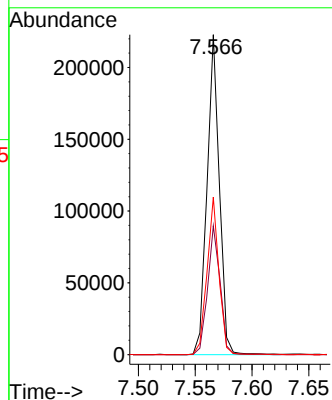
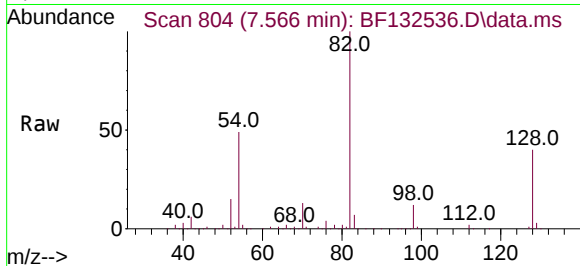
#23
Nitrobenzene-d5
Concen: 15.154 ng
RT: 7.566 min Scan# 804
Delta R.T. -0.012 min
Lab File: BF132536.D
Acq: 23 Feb 2023 23:37

Instrument :
BNA_F
Client SampleId :
TP-2DL

Tgt Ion: 82 Resp: 168217
Ion Ratio Lower Upper
82 100
128 40.2 32.2 48.2
54 49.2 38.4 57.6

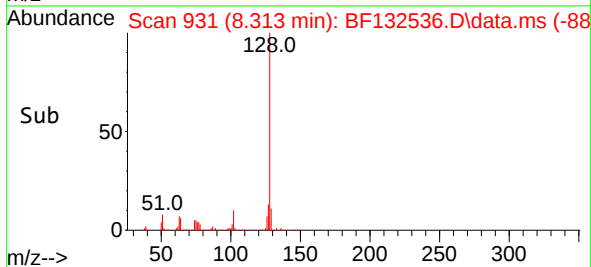
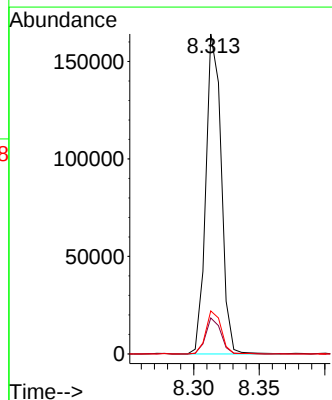
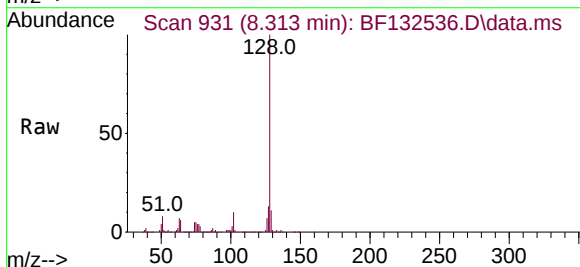
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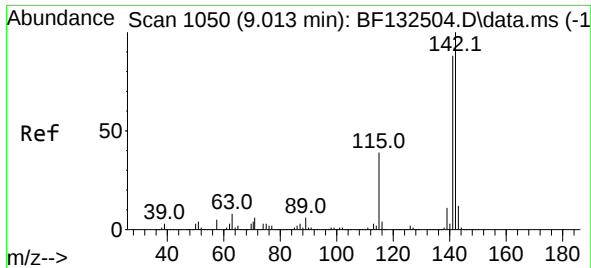
Reviewed By :Christian Giraldo 02/24/2023
Supervised By :Jagrut Upadhyay 02/24/2023



#31
Naphthalene
Concen: 4.969 ng
RT: 8.313 min Scan# 931
Delta R.T. -0.012 min
Lab File: BF132536.D
Acq: 23 Feb 2023 23:37

Tgt Ion:128 Resp: 133984
Ion Ratio Lower Upper
128 100
129 11.2 9.1 13.7
127 13.4 11.0 16.6





#37

2-Methylnaphthalene

Concen: 10.827 ng

RT: 9.007 min Scan# 1049

Delta R.T. -0.006 min

Lab File: BF132536.D

Acq: 23 Feb 2023 23:37

Instrument :

BNA_F

ClientSampleId :

TP-2DL

Tgt Ion:142 Resp: 198943

Ion Ratio Lower Upper

142 100

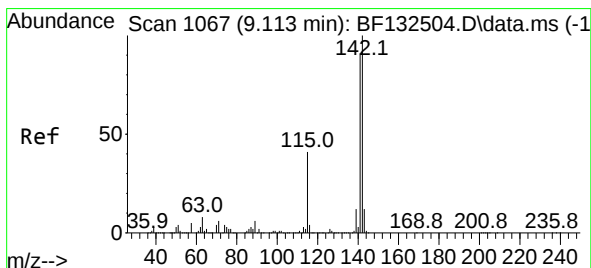
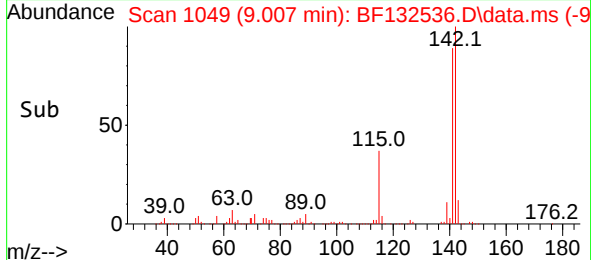
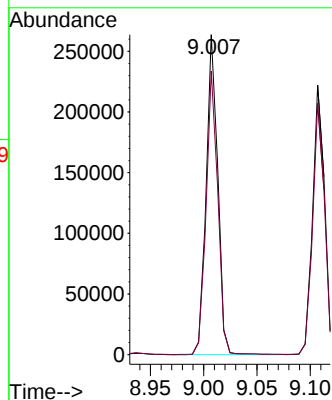
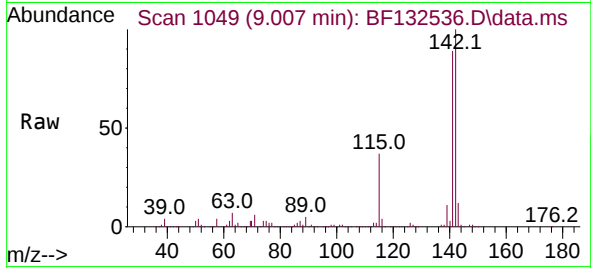
141 88.6 70.2 105.2

Manual Integrations

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Reviewed By :Christian Giraldo 02/24/2023

Supervised By :Jagrut Upadhyay 02/24/2023



#38

1-Methylnaphthalene

Concen: 10.145 ng

RT: 9.107 min Scan# 1066

Delta R.T. -0.006 min

Lab File: BF132536.D

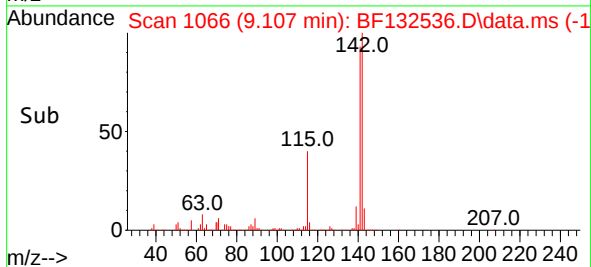
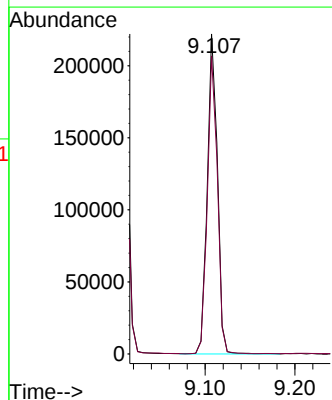
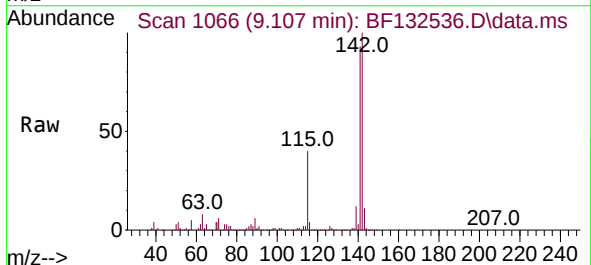
Acq: 23 Feb 2023 23:37

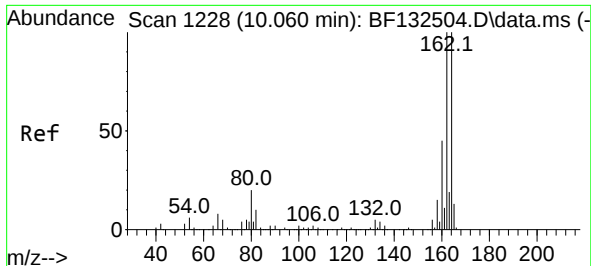
Tgt Ion:142 Resp: 174199

Ion Ratio Lower Upper

142 100

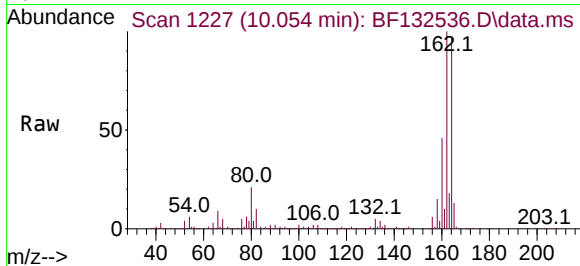
141 93.1 73.0 109.6





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 10.054 min Scan# 1227
Delta R.T. -0.006 min
Lab File: BF132536.D
Acq: 23 Feb 2023 23:37

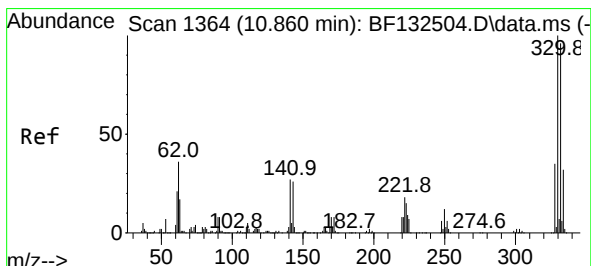
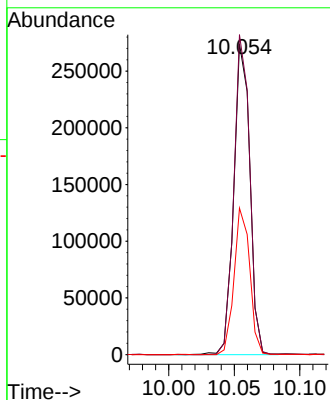
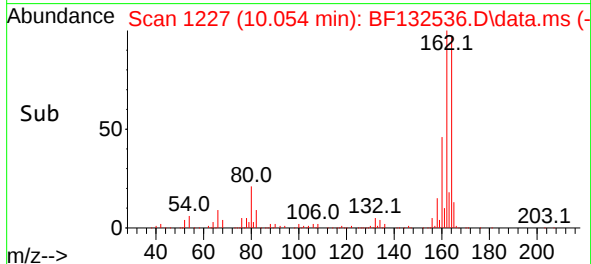
Instrument :
BNA_F
ClientSampleId :
TP-2DL



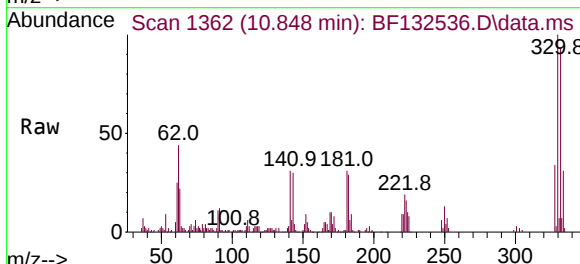
Tgt Ion:164 Resp: 233899
Ion Ratio Lower Upper
164 100
162 102.9 79.8 119.8
160 47.1 35.8 53.6

Manual Integrations
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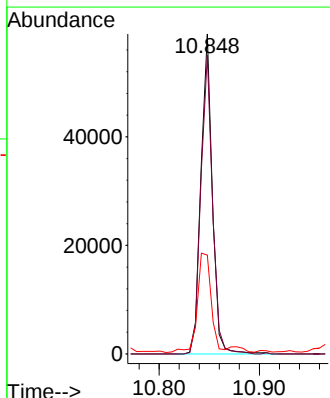
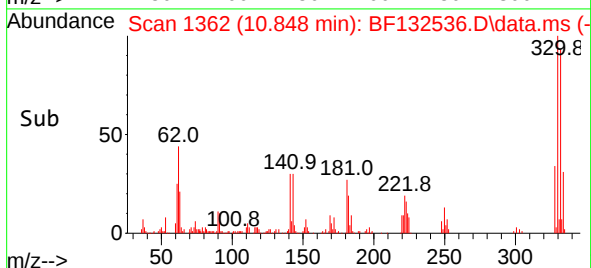
Reviewed By :Christian Giraldo 02/24/2023
Supervised By :Jagrut Upadhyay 02/24/2023

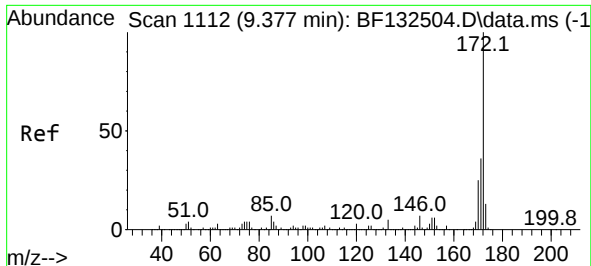


#42
2,4,6-Tribromophenol
Concen: 18.374 ng
RT: 10.848 min Scan# 1362
Delta R.T. -0.012 min
Lab File: BF132536.D
Acq: 23 Feb 2023 23:37



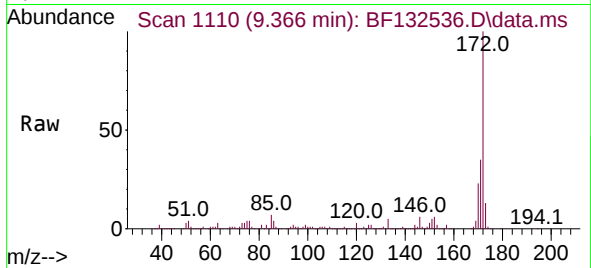
Tgt Ion:330 Resp: 46414
Ion Ratio Lower Upper
330 100
332 95.6 76.2 114.4
141 37.8 28.4 42.6





#45
2-Fluorobiphenyl
Concen: 17.854 ng
RT: 9.366 min Scan# 1110
Delta R.T. -0.011 min
Lab File: BF132536.D
Acq: 23 Feb 2023 23:37

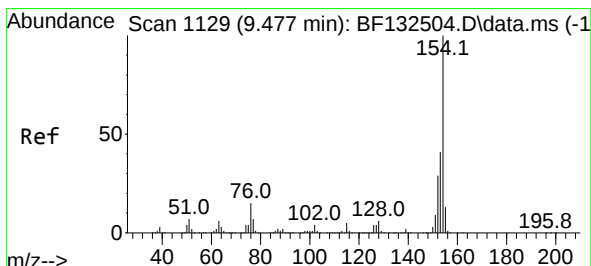
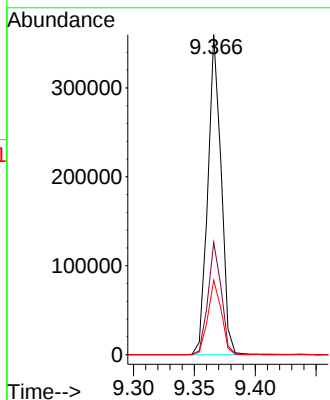
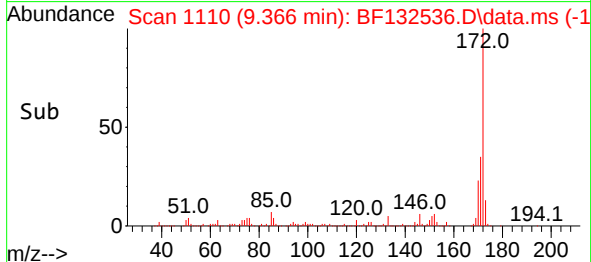
Instrument :
BNA_F
ClientSampleId :
TP-2DL



Tgt Ion:172 Resp: 27425
Ion Ratio Lower Upper
172 100
171 35.1 28.8 43.2
170 23.3 19.7 29.5

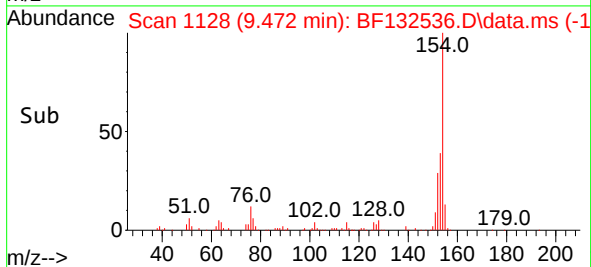
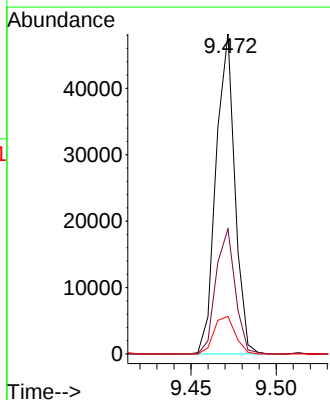
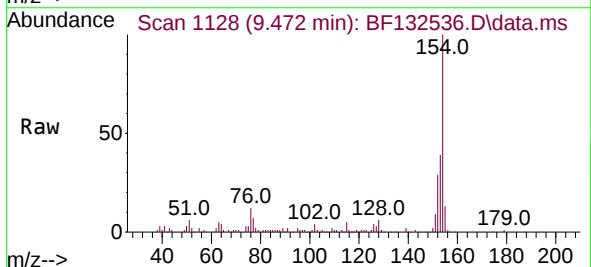
Manual Integrations
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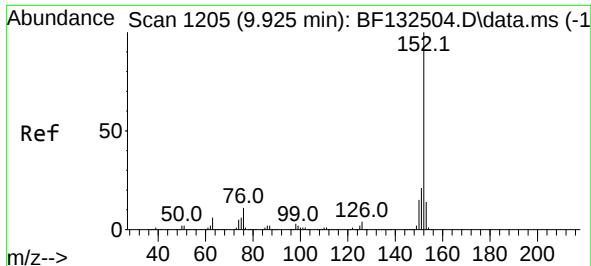
Reviewed By :Christian Giraldo 02/24/2023
Supervised By :Jagrut Upadhyay 02/24/2023



#46
1,1'-Biphenyl
Concen: 2.092 ng
RT: 9.472 min Scan# 1128
Delta R.T. -0.006 min
Lab File: BF132536.D
Acq: 23 Feb 2023 23:37

Tgt Ion:154 Resp: 37041
Ion Ratio Lower Upper
154 100
153 39.1 20.9 60.9
76 11.7 0.0 34.7





#49

Acenaphthylene

Concen: 4.057 ng

RT: 9.919 min Scan# 1204

Delta R.T. -0.006 min

Lab File: BF132536.D

Acq: 23 Feb 2023 23:37

Instrument :

BNA_F

ClientSampleId :

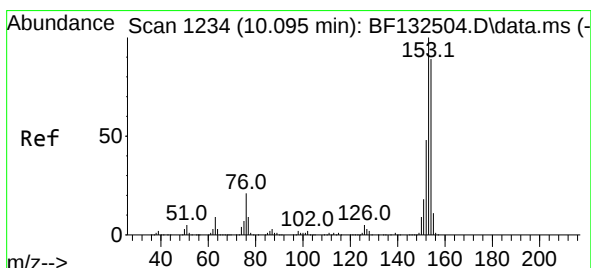
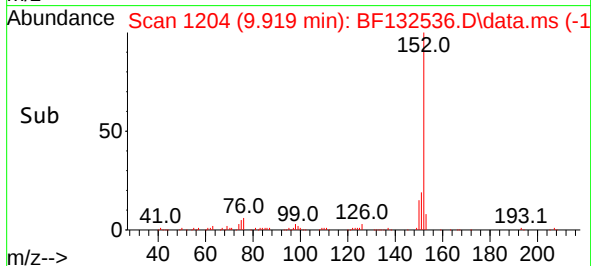
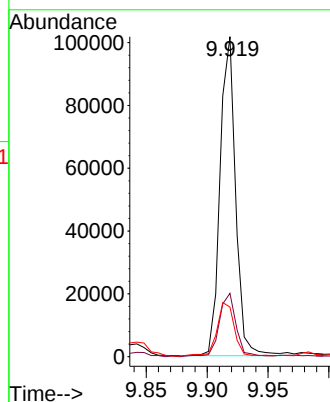
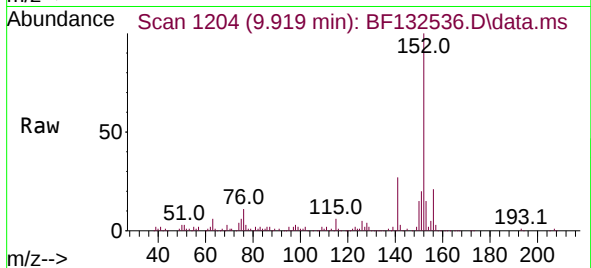
TP-2DL

Tgt Ion:152	Resp:	9062
Ion Ratio	Lower	Upper
152	100	
151	19.8	16.4 24.6
153	15.5	11.0 16.6

Manual Integrations

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Reviewed By :Christian Giraldo 02/24/2023
Supervised By :Jagrut Upadhyay 02/24/2023



#52

Acenaphthene

Concen: 3.766 ng

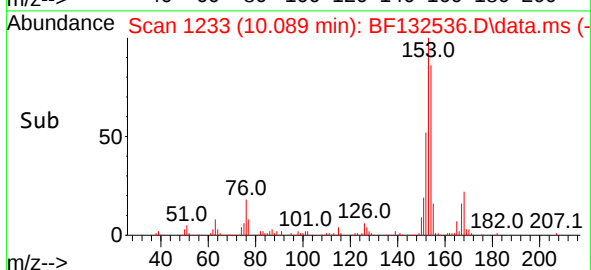
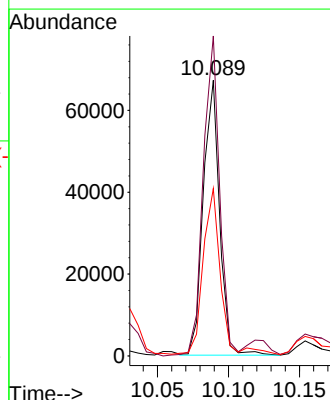
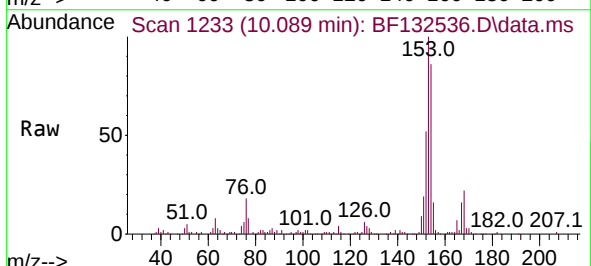
RT: 10.089 min Scan# 1233

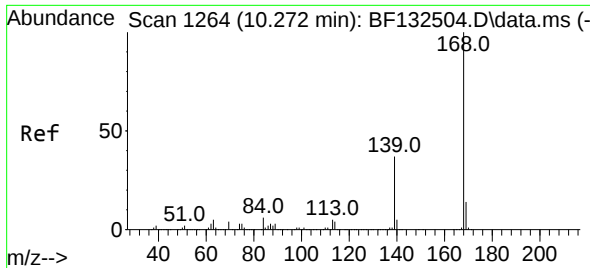
Delta R.T. -0.006 min

Lab File: BF132536.D

Acq: 23 Feb 2023 23:37

Tgt Ion:154	Resp:	53419
Ion Ratio	Lower	Upper
154	100	
153	116.1	89.8 134.8
152	60.7	43.3 64.9





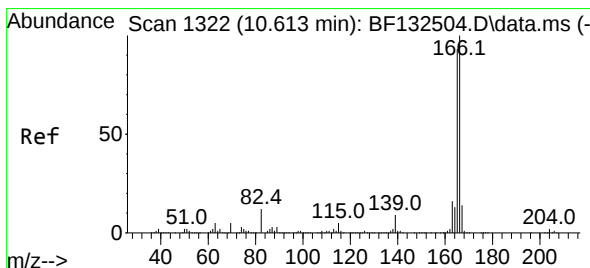
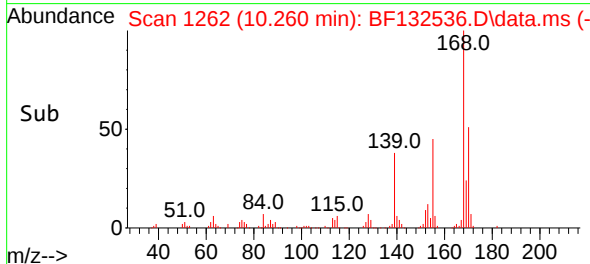
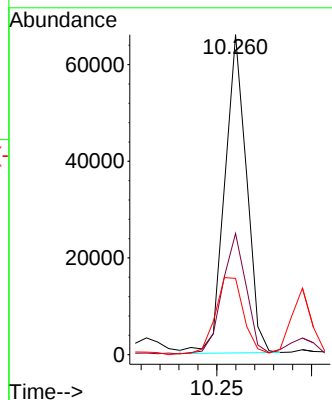
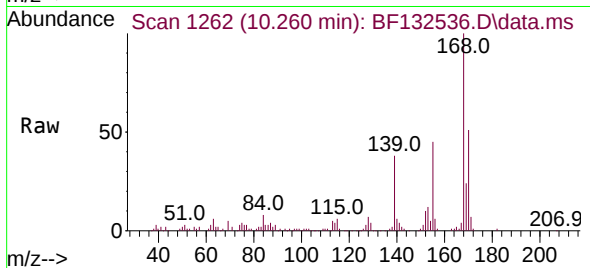
#55
Dibenzofuran
Concen: 2.542 ng
RT: 10.260 min Scan# 1262
Delta R.T. -0.012 min
Lab File: BF132536.D
Acq: 23 Feb 2023 23:37

Instrument :
BNA_F
ClientSampleId :
TP-2DL

Tgt Ion:168 Resp: 52564
Ion Ratio Lower Upper
168 100
139 37.9 29.8 44.6
169 23.8 10.9 16.3

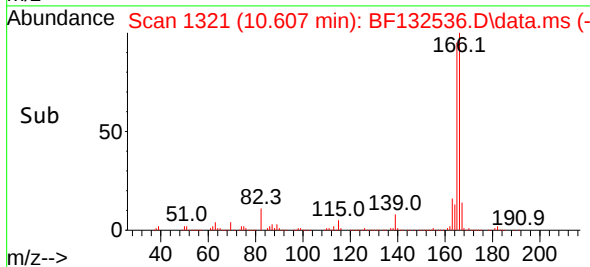
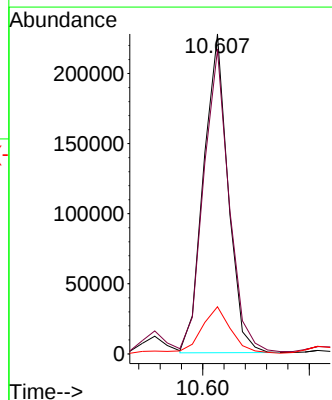
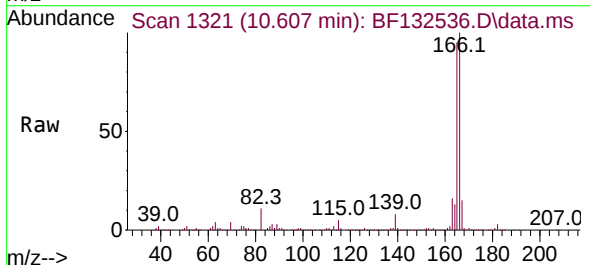
Manual Integrations
APPROVED

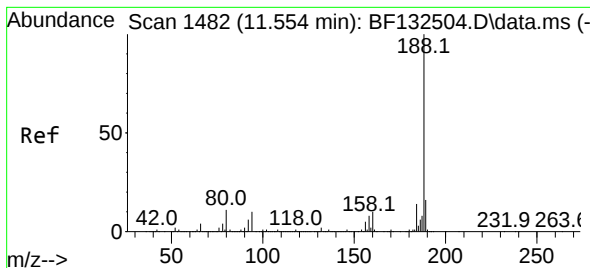
Reviewed By :Christian Giraldo 02/24/2023
Supervised By :Jagrut Upadhyay 02/24/2023



#58
Fluorene
Concen: 11.471 ng
RT: 10.607 min Scan# 1321
Delta R.T. -0.006 min
Lab File: BF132536.D
Acq: 23 Feb 2023 23:37

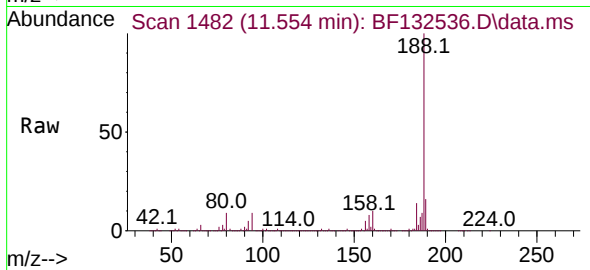
Tgt Ion:166 Resp: 181447
Ion Ratio Lower Upper
166 100
165 95.1 74.2 111.4
167 14.7 11.1 16.7





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.554 min Scan# 1482
Delta R.T. 0.000 min
Lab File: BF132536.D
Acq: 23 Feb 2023 23:37

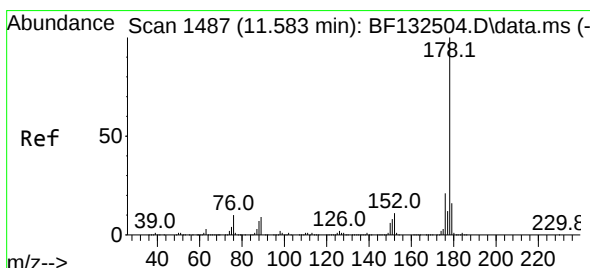
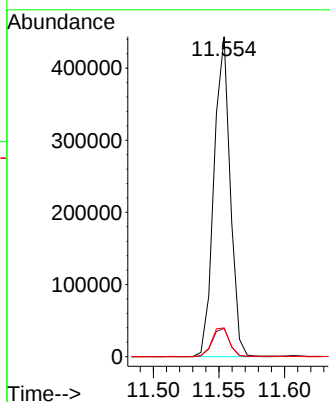
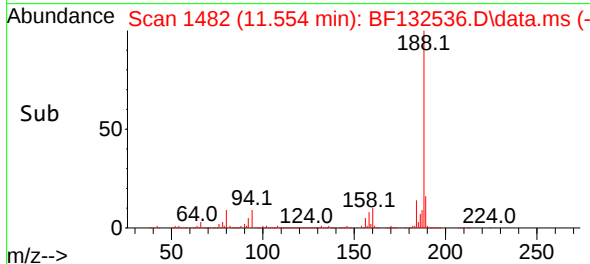
Instrument :
BNA_F
ClientSampleId :
TP-2DL



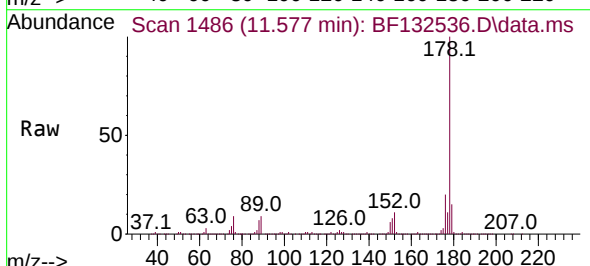
Tgt Ion:188 Resp: 382676
Ion Ratio Lower Upper
188 100
94 8.8 8.3 12.5
80 9.0 8.7 13.1

Manual Integrations
APPROVED

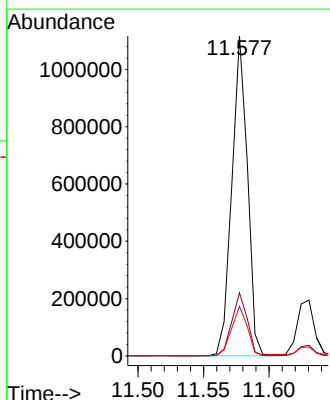
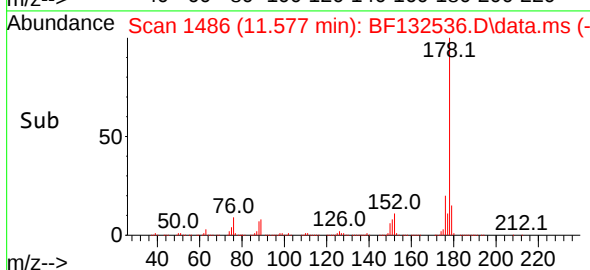
Reviewed By :Christian Giraldo 02/24/2023
Supervised By :Jagrut Upadhyay 02/24/2023

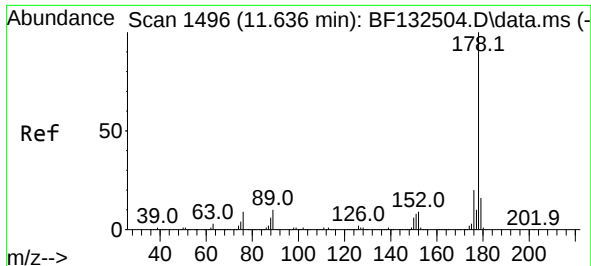


#71
Phenanthrene
Concen: 46.500 ng
RT: 11.577 min Scan# 1486
Delta R.T. -0.006 min
Lab File: BF132536.D
Acq: 23 Feb 2023 23:37



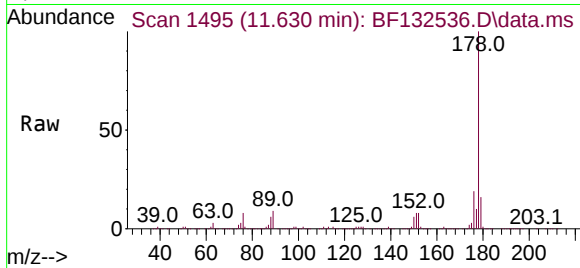
Tgt Ion:178 Resp: 921830
Ion Ratio Lower Upper
178 100
176 19.7 16.5 24.7
179 15.5 13.0 19.6





#72
 Anthracene
 Concen: 8.460 ng
 RT: 11.630 min Scan# 1496
 Delta R.T. -0.006 min
 Lab File: BF132536.D
 Acq: 23 Feb 2023 23:37

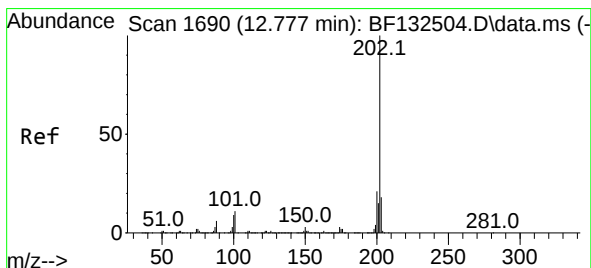
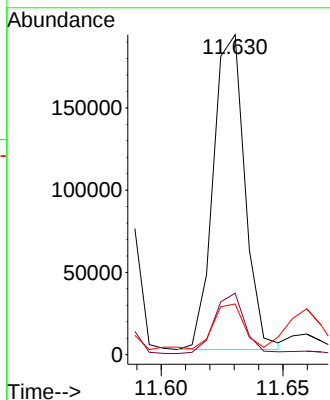
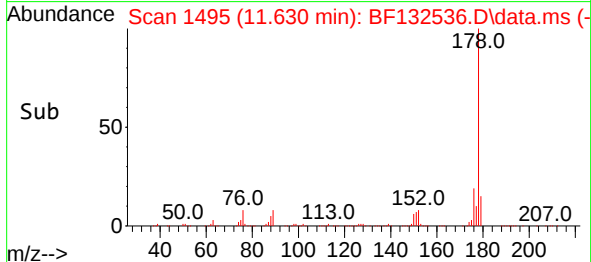
Instrument :
 BNA_F
 ClientSampleId :
 TP-2DL



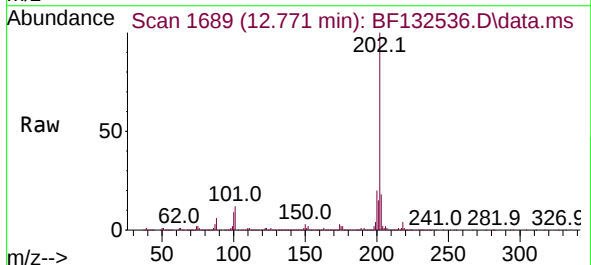
Tgt Ion:178 Resp: 172699
 Ion Ratio Lower Upper
 178 100
 176 19.2 15.6 23.4
 179 15.8 12.5 18.7

Manual Integrations
 APPROVED

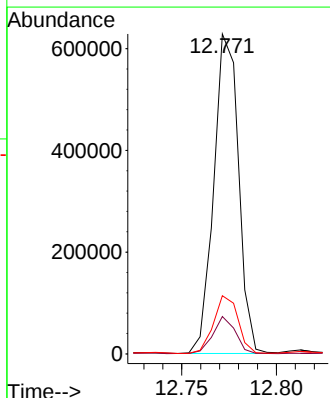
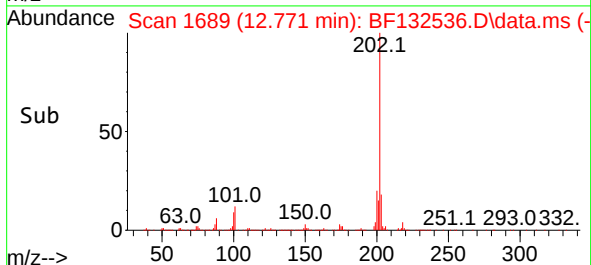
Reviewed By :Christian Giraldo 02/24/2023
 Supervised By :Jagrut Upadhyay 02/24/2023

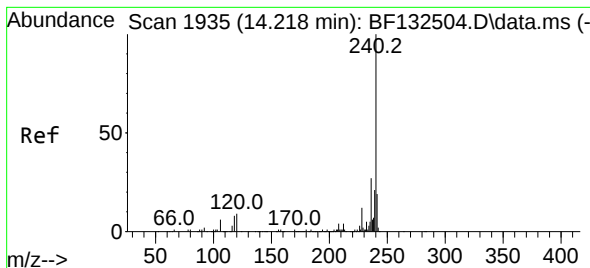


#75
 Fluoranthene
 Concen: 26.329 ng
 RT: 12.771 min Scan# 1689
 Delta R.T. -0.006 min
 Lab File: BF132536.D
 Acq: 23 Feb 2023 23:37



Tgt Ion:202 Resp: 570606
 Ion Ratio Lower Upper
 202 100
 101 11.7 0.0 31.4
 203 18.2 0.0 38.0





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.207 min Scan# 1935

Delta R.T. -0.012 min

Lab File: BF132536.D

Acq: 23 Feb 2023 23:37

Instrument :

BNA_F

ClientSampleId :

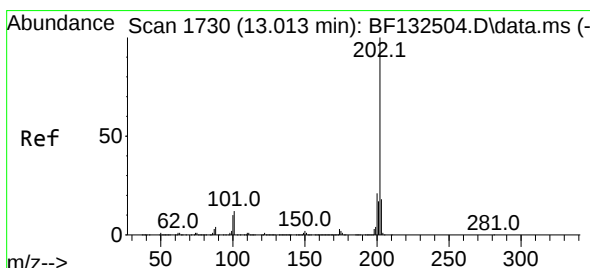
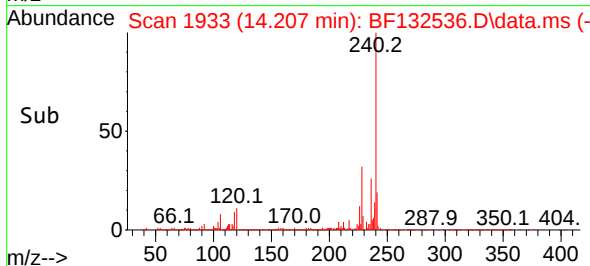
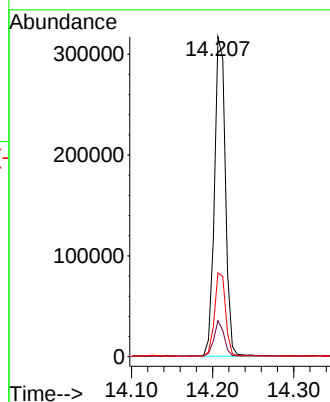
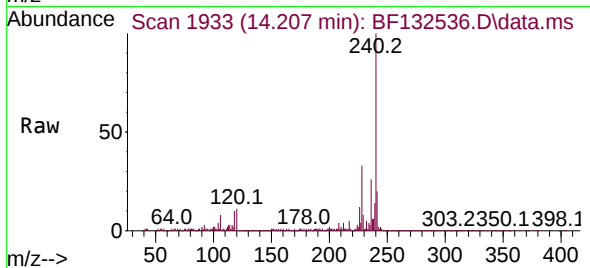
TP-2DL

Tgt Ion:240 Resp: 298201
 Ion Ratio Lower Upper
 240 100
 120 11.2 7.2 10.8
 236 26.2 21.8 32.6

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 02/24/2023
 Supervised By :Jagrut Upadhyay 02/24/2023



#78

Pyrene

Concen: 26.755 ng

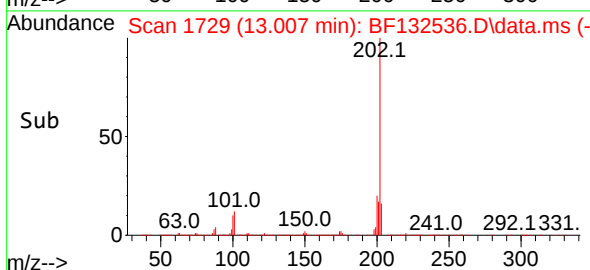
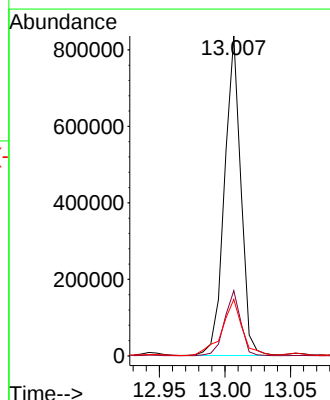
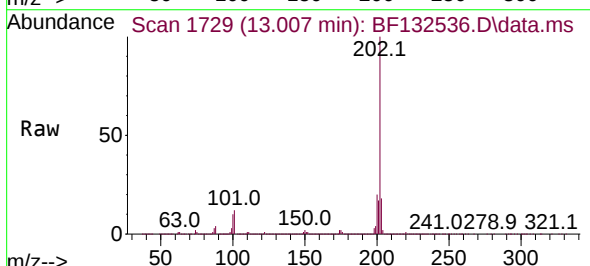
RT: 13.007 min Scan# 1729

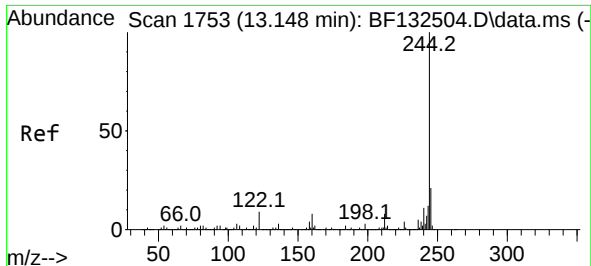
Delta R.T. -0.006 min

Lab File: BF132536.D

Acq: 23 Feb 2023 23:37

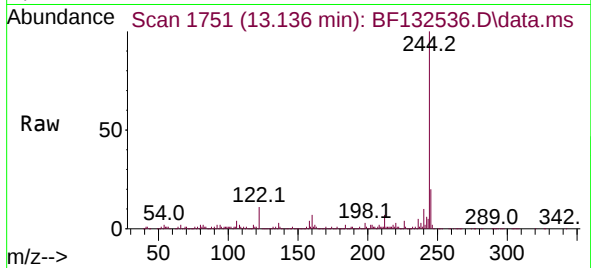
Tgt Ion:202 Resp: 725366
 Ion Ratio Lower Upper
 202 100
 200 20.4 17.1 25.7
 203 17.6 14.6 21.8





#79
 Terphenyl-d14
 Concen: 14.178 ng
 RT: 13.136 min Scan# 1751
 Delta R.T. -0.012 min
 Lab File: BF132536.D
 Acq: 23 Feb 2023 23:37

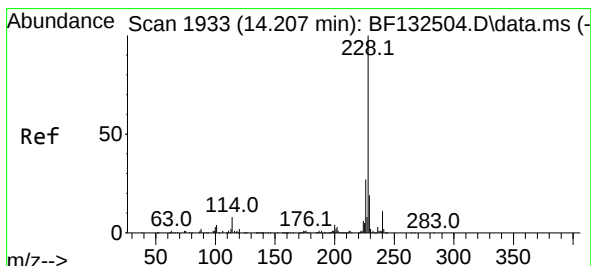
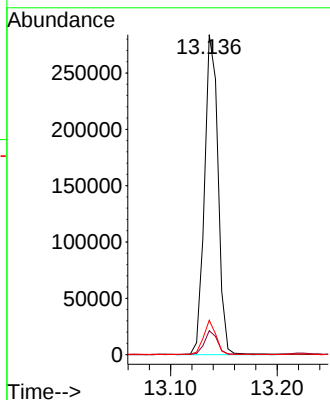
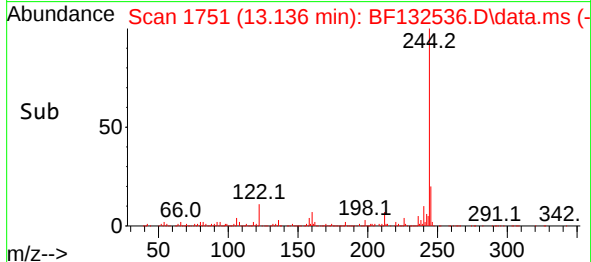
Instrument :
 BNA_F
 ClientSampleId :
 TP-2DL



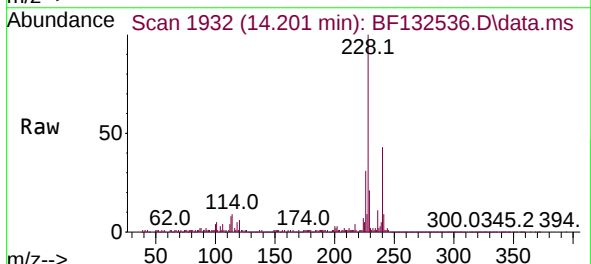
Tgt Ion:244 Resp: 250068
 Ion Ratio Lower Upper
 244 100
 212 7.5 6.5 9.7
 122 10.7 7.5 11.3

Manual Integrations
 APPROVED

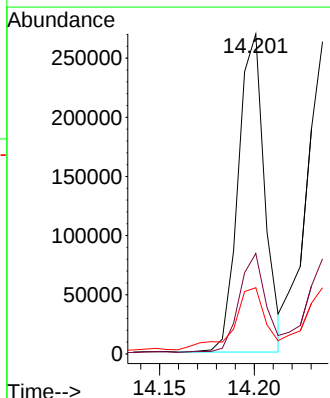
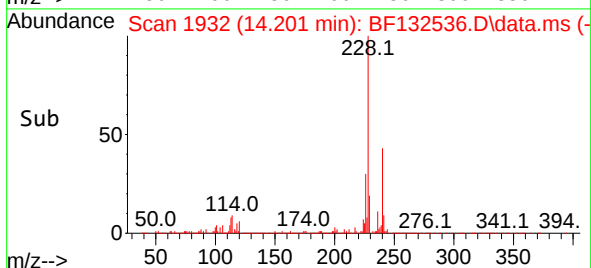
Reviewed By :Christian Giraldo 02/24/2023
 Supervised By :Jagrut Upadhyay 02/24/2023

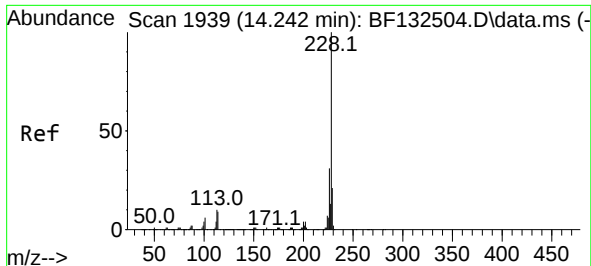


#81
 Benzo(a)anthracene
 Concen: 11.686 ng
 RT: 14.201 min Scan# 1932
 Delta R.T. -0.006 min
 Lab File: BF132536.D
 Acq: 23 Feb 2023 23:37



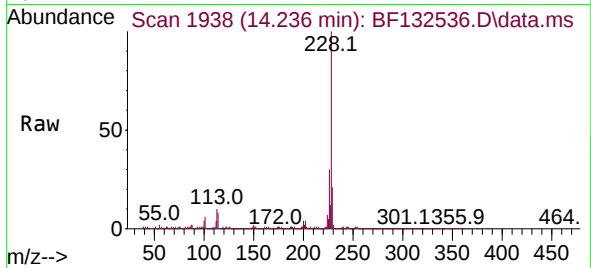
Tgt Ion:228 Resp: 260730
 Ion Ratio Lower Upper
 228 100
 226 31.4 21.7 32.5
 229 20.7 15.4 23.2





#83
Chrysene
Concen: 12.014 ng
RT: 14.236 min Scan# 1939
Delta R.T. -0.006 min
Lab File: BF132536.D
Acq: 23 Feb 2023 23:37

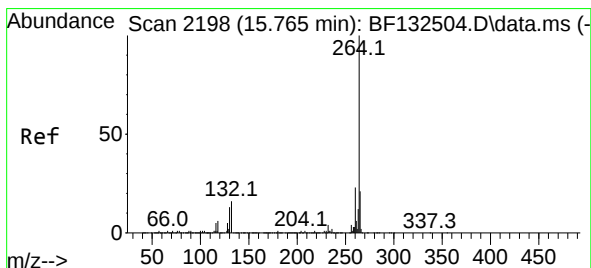
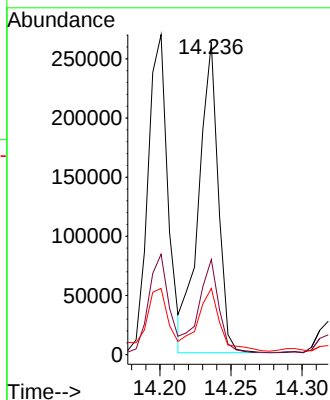
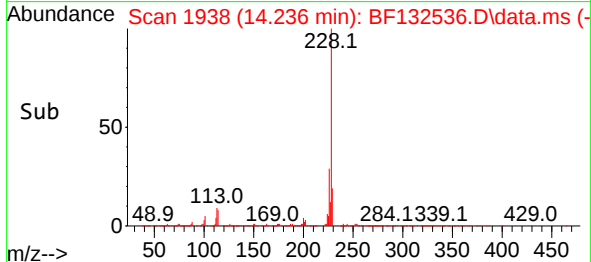
Instrument :
BNA_F
ClientSampleId :
TP-2DL



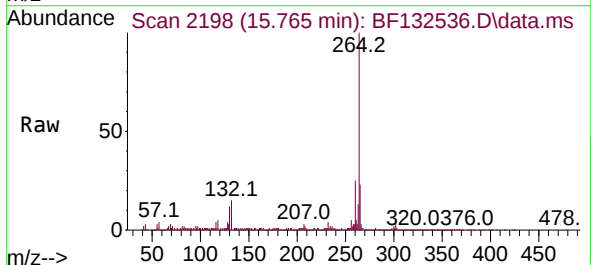
Tgt Ion:228 Resp: 250672
Ion Ratio Lower Upper
228 100
226 30.5 25.0 37.6
229 21.2 16.4 24.6

Manual Integrations
APPROVED

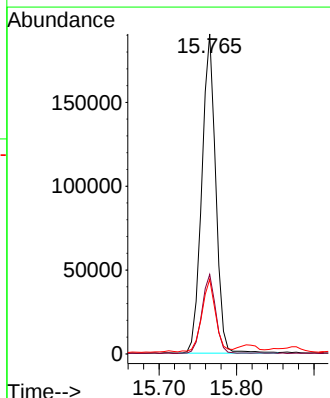
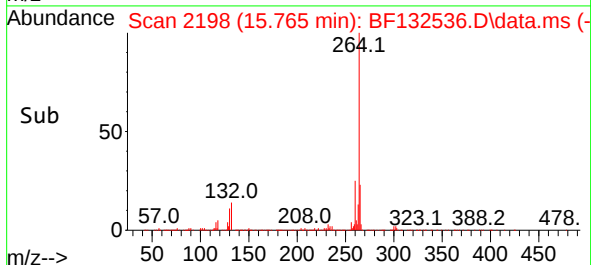
Reviewed By :Christian Giraldo 02/24/2023
Supervised By :Jagrut Upadhyay 02/24/2023

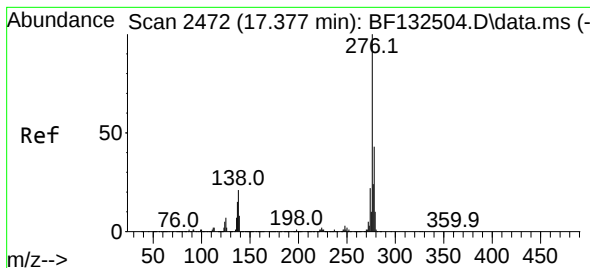


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.765 min Scan# 2198
Delta R.T. 0.000 min
Lab File: BF132536.D
Acq: 23 Feb 2023 23:37



Tgt Ion:264 Resp: 237306
Ion Ratio Lower Upper
264 100
260 24.8 18.8 28.2
265 23.3 17.1 25.7





#87

Indeno(1,2,3-cd)pyrene

Concen: 4.076 ng

RT: 17.359 min Scan# 2472

Delta R.T. -0.018 min

Lab File: BF132536.D

Acq: 23 Feb 2023 23:37

Instrument :

BNA_F

ClientSampleId :

TP-2DL

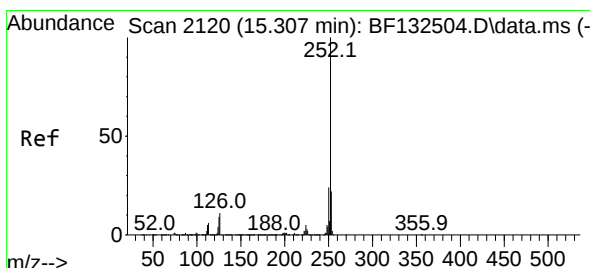
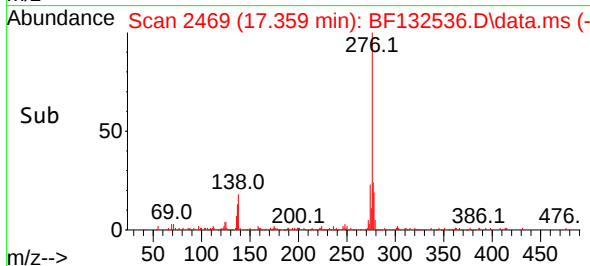
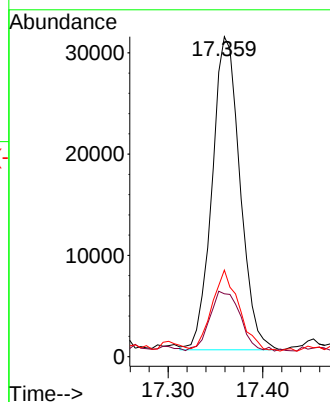
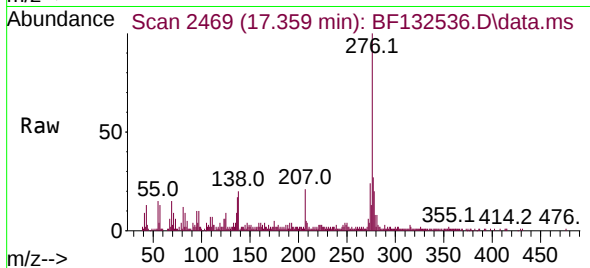
Tgt Ion:	276	Resp:	63382
Ion Ratio	Lower	Upper	
276	100		
138	21.0	19.0	28.4
277	25.2	20.0	30.0

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 02/24/2023

Supervised By :Jagrut Upadhyay 02/24/2023



#88

Benzo(b)fluoranthene

Concen: 11.473 ng m

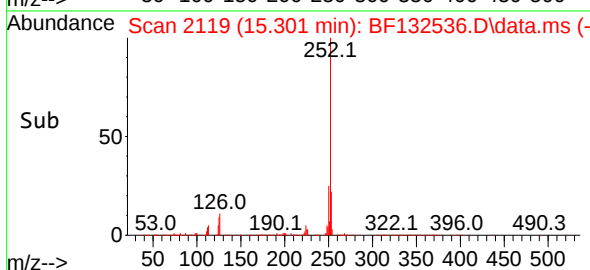
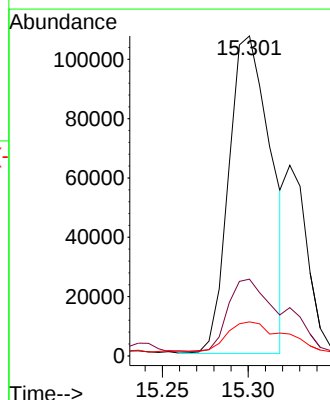
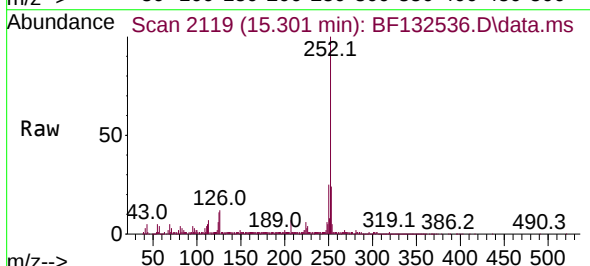
RT: 15.301 min Scan# 2119

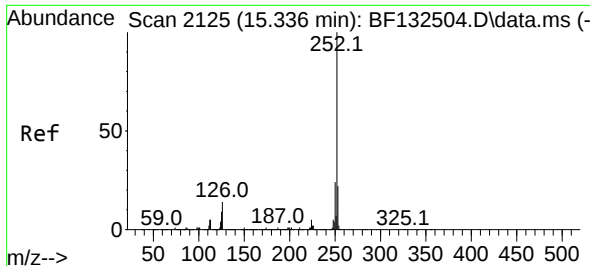
Delta R.T. -0.006 min

Lab File: BF132536.D

Acq: 23 Feb 2023 23:37

Tgt Ion:	252	Resp:	182452
Ion Ratio	Lower	Upper	
252	100		
253	24.0	17.4	26.0
125	10.6	7.0	10.6





#89

Benzo(k)fluoranthene

Concen: 3.647 ng m

RT: 15.324 min Scan# 2125

Delta R.T. -0.012 min

Lab File: BF132536.D

Acq: 23 Feb 2023 23:37

Instrument :

BNA_F

ClientSampleId :

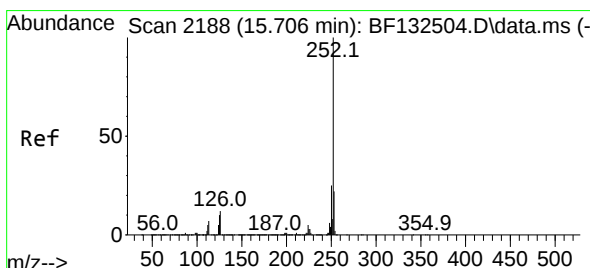
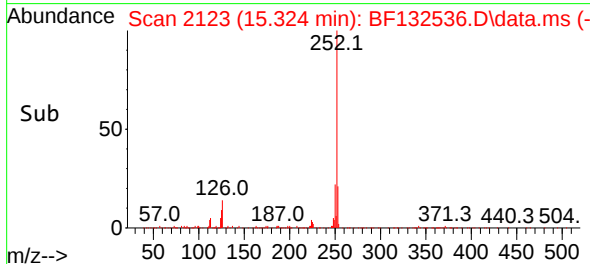
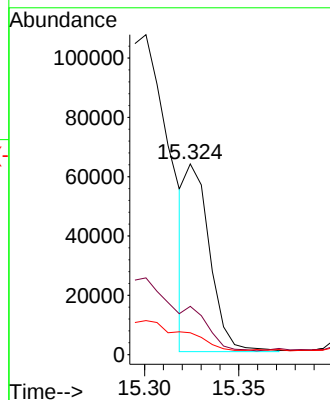
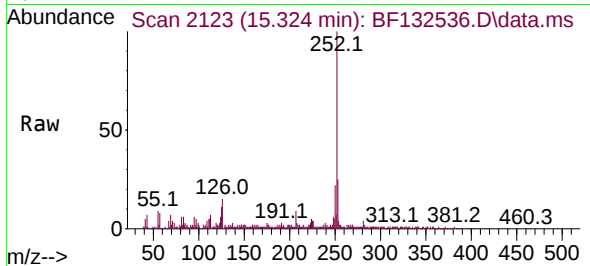
TP-2DL

Tgt Ion:252	Resp:	56756
Ion Ratio	Lower	Upper
252	100	
253	25.3	17.5 26.3
125	11.5	7.2 10.8

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 02/24/2023
Supervised By :Jagrut Upadhyay 02/24/2023



#90

Benzo(a)pyrene

Concen: 10.422 ng

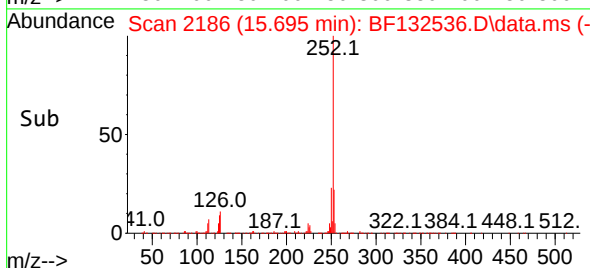
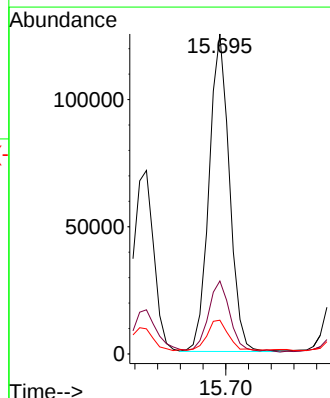
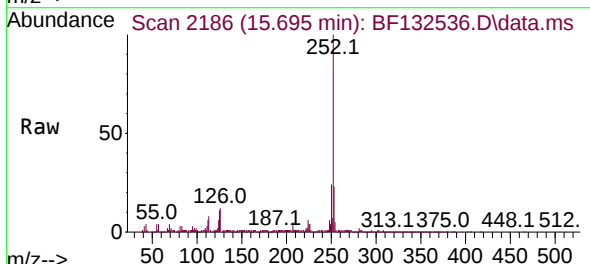
RT: 15.695 min Scan# 2186

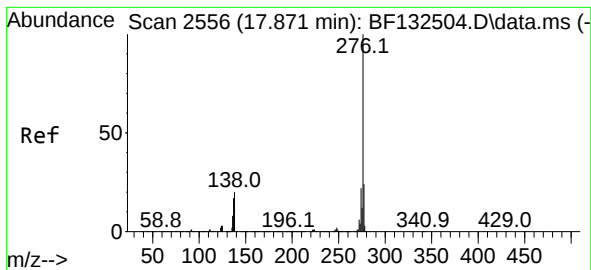
Delta R.T. -0.012 min

Lab File: BF132536.D

Acq: 23 Feb 2023 23:37

Tgt Ion:252	Resp:	155115
Ion Ratio	Lower	Upper
252	100	
253	22.8	17.2 25.8
125	10.5	8.0 12.0





#92

Benzo(g,h,i)perylene

Concen: 6.022 ng

RT: 17.848 min Scan# 2552

Delta R.T. -0.023 min

Lab File: BF132536.D

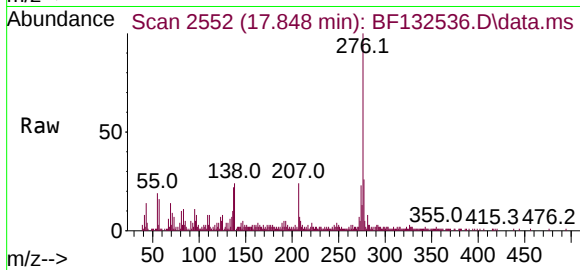
Acq: 23 Feb 2023 23:37

Instrument :

BNA_F

ClientSampleId :

TP-2DL



Tgt Ion:276 Resp: 65306

Ion Ratio Lower Upper

276 100

277 26.3 18.9 28.3

138 24.0 16.2 24.4

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 02/24/2023

Supervised By :Jagrut Upadhyay 02/24/2023

