

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF060523\
 Data File : BF133582.D
 Acq On : 05 Jun 2023 23:52
 Operator : CG\JU
 Sample : 02983-08
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB07

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 06/06/2023
 Supervised By :mohammad ahmed 06/08/2023

Quant Time: Jun 06 01:09:02 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052523.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jun 05 17:49:53 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.834	152	128322	20.000	ng	0.00
21) Naphthalene-d8	8.116	136	454637	20.000	ng	0.00
39) Acenaphthene-d10	9.869	164	200210	20.000	ng	0.00
64) Phenanthrene-d10	11.363	188	374277	20.000	ng	0.00
76) Chrysene-d12	14.015	240	173301	20.000	ng	0.01
86) Perylene-d12	15.480	264	174259	20.000	ng	# 0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.434	112	455064	59.168	ng	0.00
7) Phenol-d6	6.451	99	540588	57.098	ng	0.00
23) Nitrobenzene-d5	7.392	82	314946	46.253	ng	0.00
42) 2,4,6-Tribromophenol	10.657	330	120278	60.268	ng	0.00
45) 2-Fluorobiphenyl	9.192	172	568168	43.801	ng	0.00
79) Terphenyl-d14	12.951	244	524072	53.767	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.134	128	87906	3.988	ng	96
37) 2-Methylnaphthalene	8.828	142	51391	3.415	ng	100
38) 1-Methylnaphthalene	8.928	142	42486	3.029	ng	98
49) Acenaphthylene	9.733	152	236736	11.768	ng	99
52) Acenaphthene	9.904	154	187337	15.373	ng	100
55) Dibenzofuran	10.075	168	186506	10.287	ng	# 97
58) Fluorene	10.422	166	320723	24.145	ng	99
71) Phenanthrene	11.398	178	2444225	128.936	ng	99
72) Anthracene	11.439	178	996753	51.089	ng	100
73) Carbazole	11.586	167	83194	4.509	ng	96
75) Fluoranthene	12.598	202	3995143	190.797	ng	96
78) Pyrene	12.827	202	3461160	234.700	ng	98
81) Benzo(a)anthracene	14.004	228	1669342	144.598	ng	97
83) Chrysene	14.045	228	1383026	118.668	ng	95
87) Indeno(1,2,3-cd)pyrene	16.945	276	568736m	51.237	ng	
88) Benzo(b)fluoranthene	15.062	252	1467438m	129.321	ng	
89) Benzo(k)fluoranthene	15.080	252	489258m	44.219	ng	
90) Benzo(a)pyrene	15.427	252	1065844	103.226	ng	96
91) Dibenzo(a,h)anthracene	16.951	278	151625m	16.848	ng	
92) Benzo(g,h,i)perylene	17.386	276	498206	54.901	ng	99

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

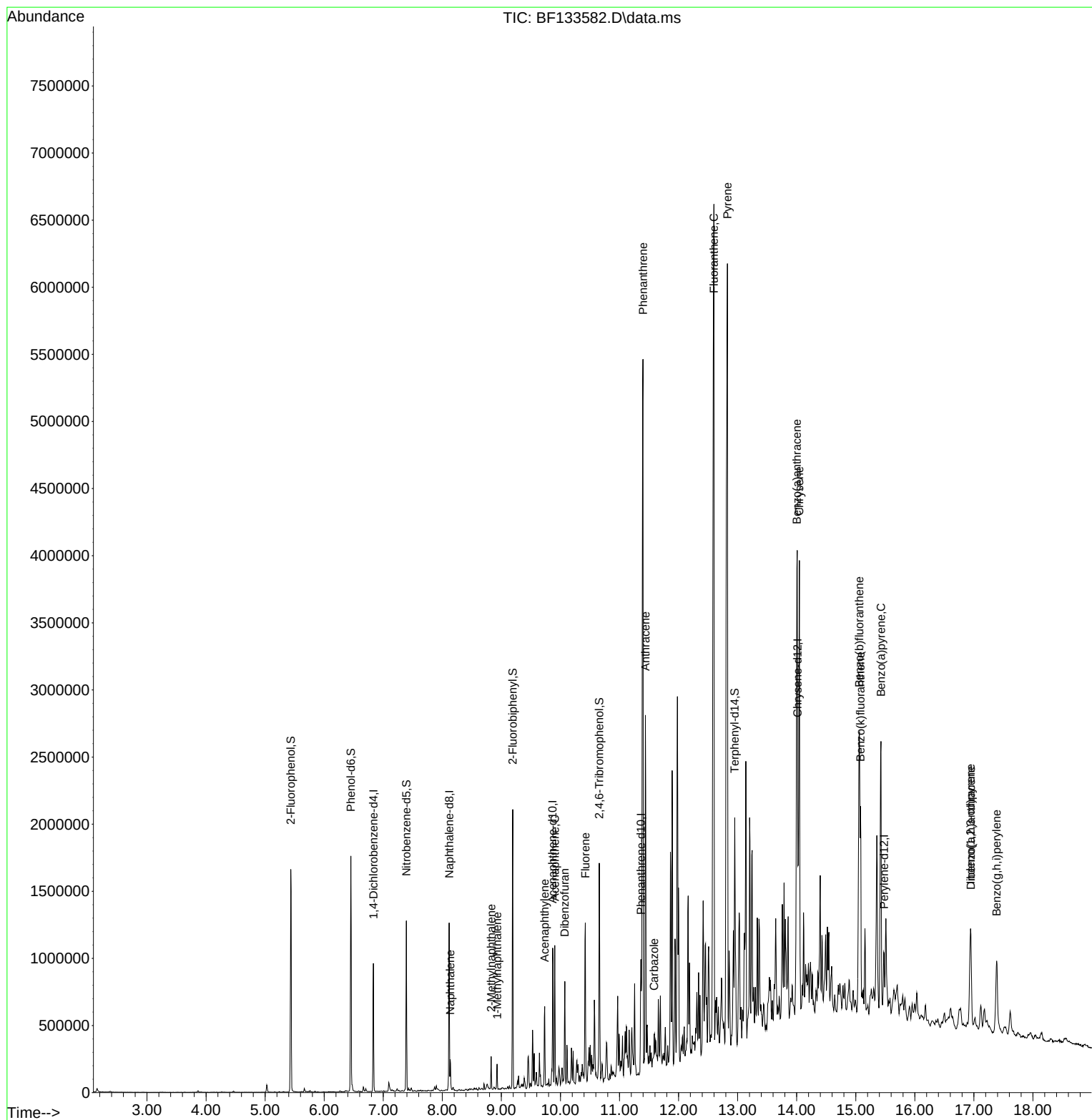
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF060523\
Data File : BF133582.D
Acq On : 05 Jun 2023 23:52
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ALS Vial : 23 Sample Multiplier: 1

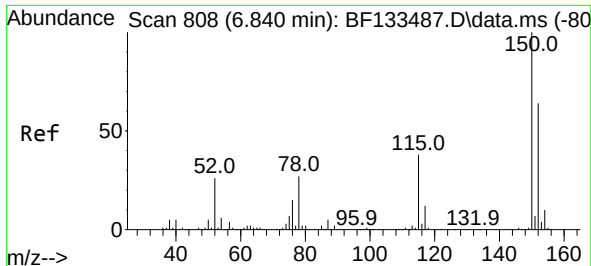
Instrument :
BNA_F
ClientSampleId :
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Quant Time: Jun 06 01:09:02 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052523.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Jun 05 17:49:53 2023
Response via : Initial Calibration

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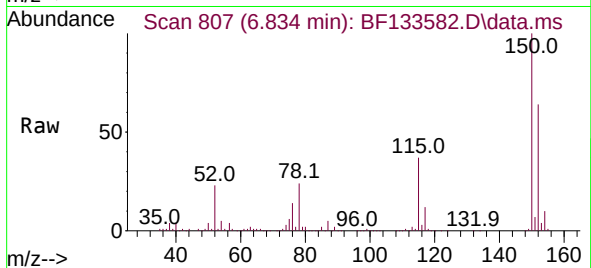
Reviewed By :Yogesh Patel 06/06/2023
Supervised By :mohammad ahmed 06/08/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.834 min Scan# 808
Delta R.T. -0.000 min
Lab File: BF133582.D
Acq: 05 Jun 2023 23:52

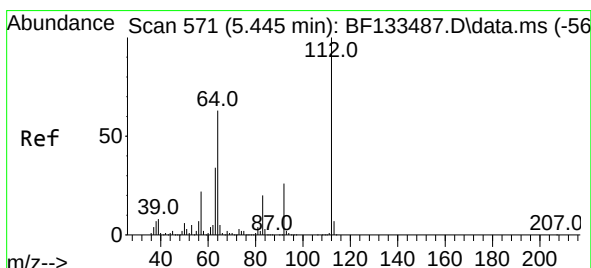
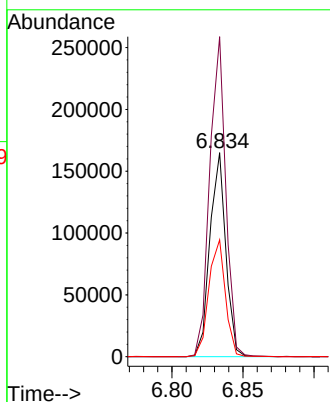
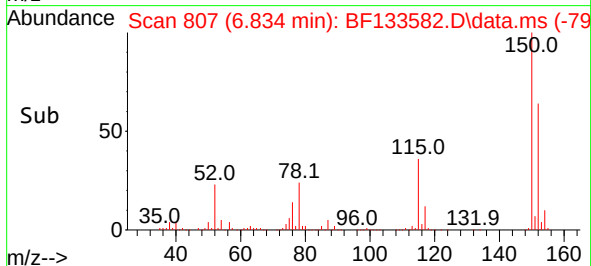
Instrument :
BNA_F
ClientSampleId :
SB07



Tgt Ion:152 Resp: 12832
Ion Ratio Lower Upper
152 100
150 156.8 124.9 187.3
115 57.3 48.1 72.1

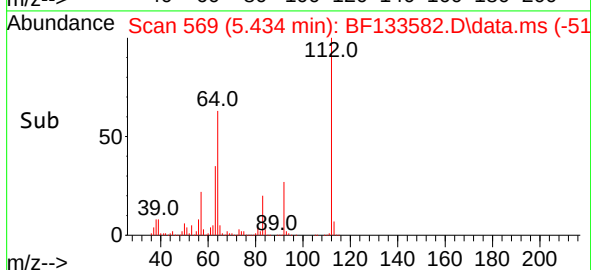
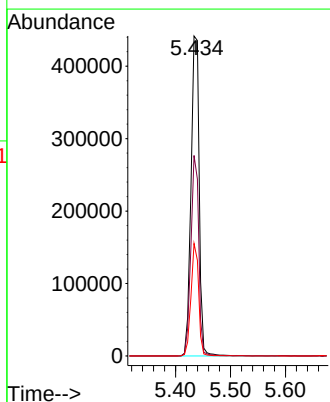
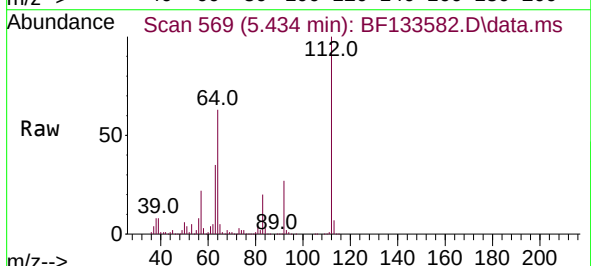
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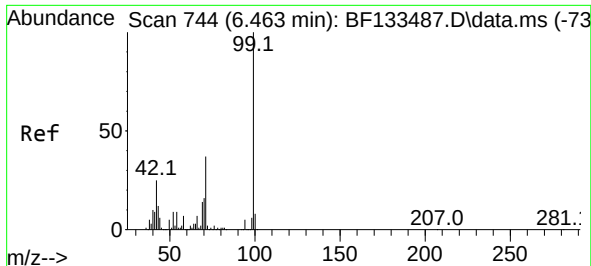
Reviewed By :Yogesh Patel 06/06/2023
Supervised By :mohammad ahmed 06/08/2023



#5
2-Fluorophenol
Concen: 59.168 ng
RT: 5.434 min Scan# 569
Delta R.T. 0.000 min
Lab File: BF133582.D
Acq: 05 Jun 2023 23:52

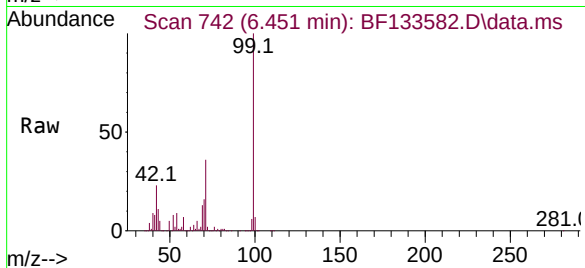
Tgt Ion:112 Resp: 455064
Ion Ratio Lower Upper
112 100
64 62.6 50.1 75.1
63 35.2 27.5 41.3





#7
Phenol-d6
Concen: 57.098 ng
RT: 6.451 min Scan# 744
Delta R.T. -0.006 min
Lab File: BF133582.D
Acq: 05 Jun 2023 23:52

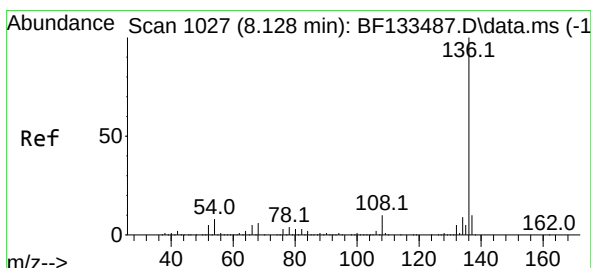
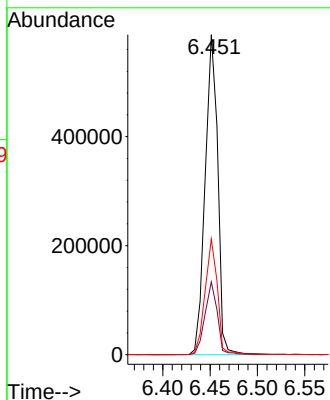
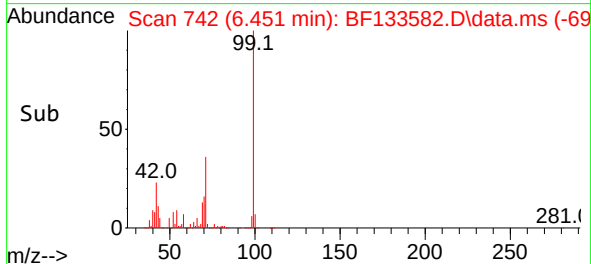
Instrument :
BNA_F
ClientSampleId :
SB07



Tgt Ion: 99 Resp: 540588
Ion Ratio Lower Upper
99 100
42 22.7 19.7 29.5
71 36.1 29.8 44.8

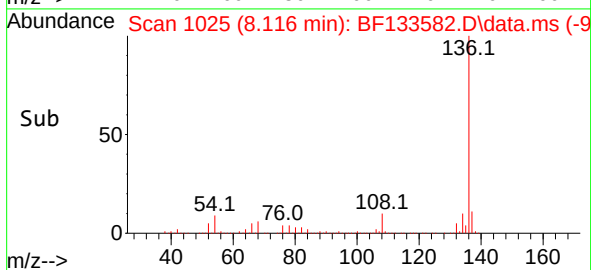
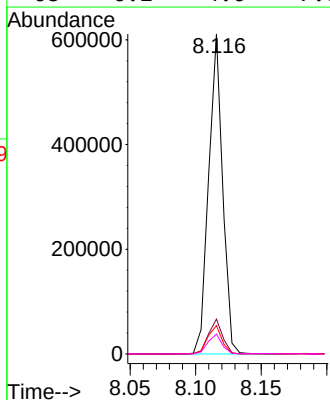
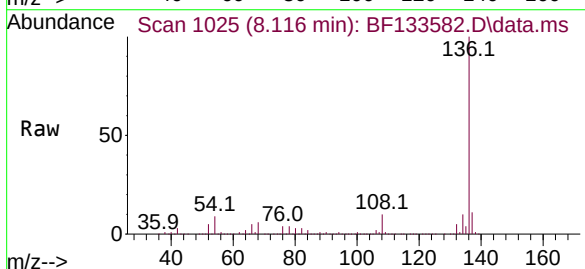
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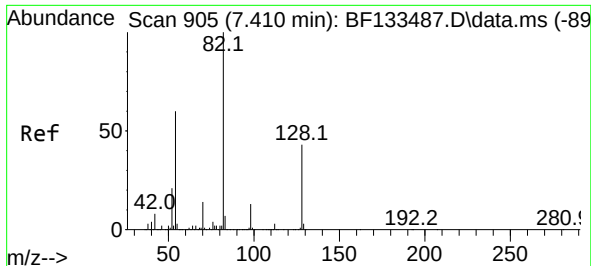
Reviewed By :Yogesh Patel 06/06/2023
Supervised By :mohammad ahmed 06/08/2023



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.116 min Scan# 1025
Delta R.T. 0.000 min
Lab File: BF133582.D
Acq: 05 Jun 2023 23:52

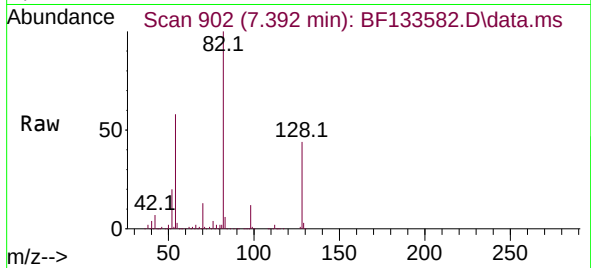
Tgt Ion:136 Resp: 454637
Ion Ratio Lower Upper
136 100
137 10.9 8.2 12.4
54 8.8 6.6 10.0
68 6.2 4.6 7.0





#23
Nitrobenzene-d5
Concen: 46.253 ng
RT: 7.392 min Scan# 905
Delta R.T. -0.006 min
Lab File: BF133582.D
Acq: 05 Jun 2023 23:52

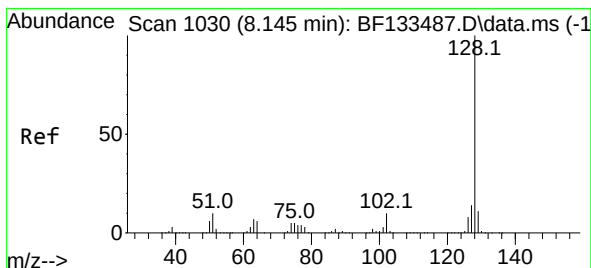
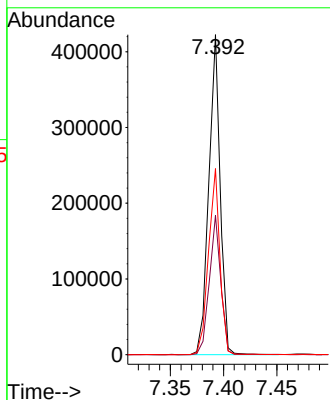
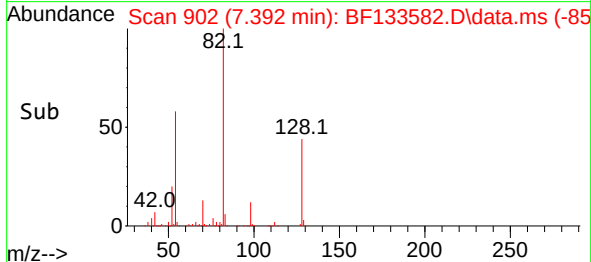
Instrument :
BNA_F
ClientSampleId :
SB07



Tgt Ion: 82 Resp: 314940
Ion Ratio Lower Upper
82 100
128 43.5 34.2 51.4
54 58.1 48.2 72.4

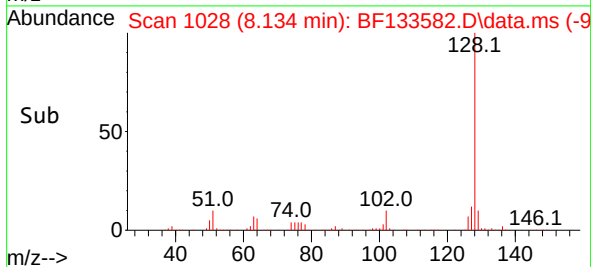
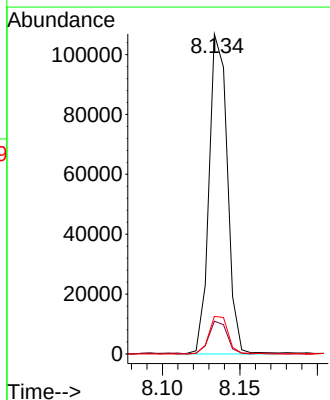
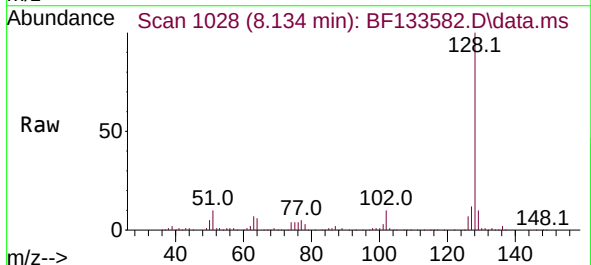
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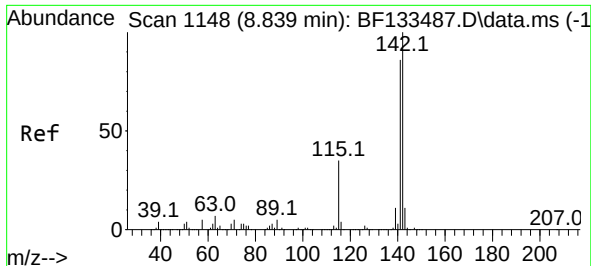
Reviewed By :Yogesh Patel 06/06/2023
Supervised By :mohammad ahmed 06/08/2023



#31
Naphthalene
Concen: 3.988 ng
RT: 8.134 min Scan# 1028
Delta R.T. -0.006 min
Lab File: BF133582.D
Acq: 05 Jun 2023 23:52

Tgt Ion:128 Resp: 87906
Ion Ratio Lower Upper
128 100
129 10.3 9.2 13.8
127 11.7 10.9 16.3





#37

2-Methylnaphthalene

Concen: 3.415 ng

RT: 8.828 min Scan# 1146

Delta R.T. 0.000 min

Lab File: BF133582.D

Acq: 05 Jun 2023 23:52

Instrument :

BNA_F

ClientSampleId :

SB07

Tgt Ion:142 Resp: 5139

Ion Ratio Lower Upper

142 100

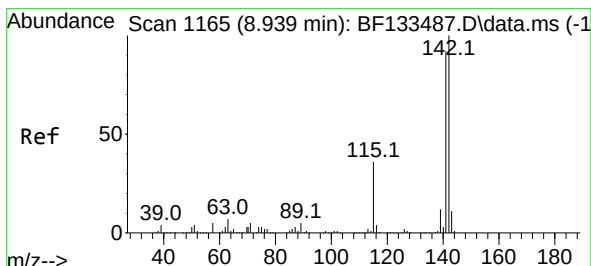
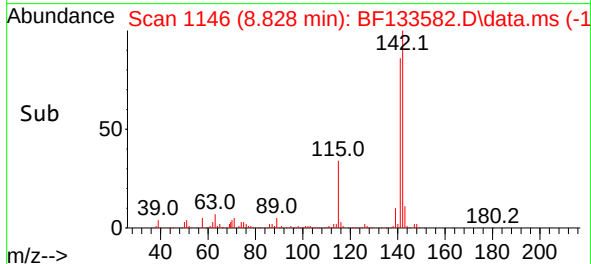
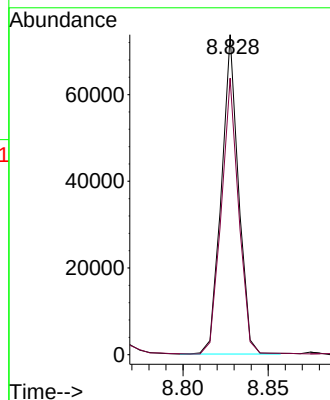
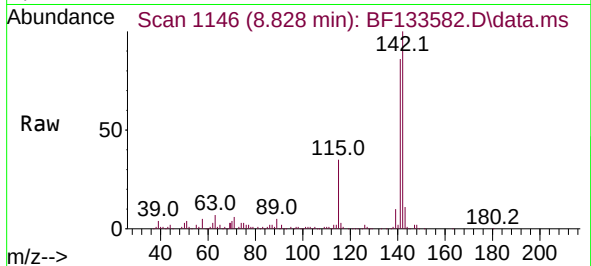
141 86.4 69.2 103.8

Manual Integrations

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Reviewed By :Yogesh Patel 06/06/2023

Supervised By :mohammad ahmed 06/08/2023



#38

1-Methylnaphthalene

Concen: 3.029 ng

RT: 8.928 min Scan# 1163

Delta R.T. 0.000 min

Lab File: BF133582.D

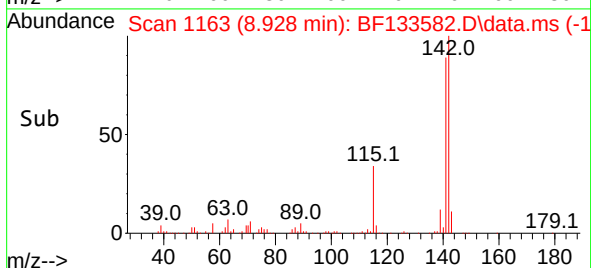
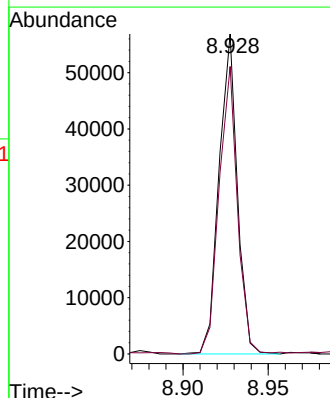
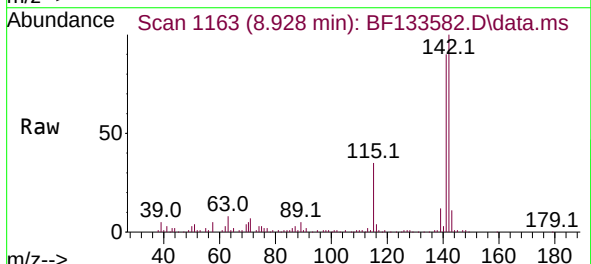
Acq: 05 Jun 2023 23:52

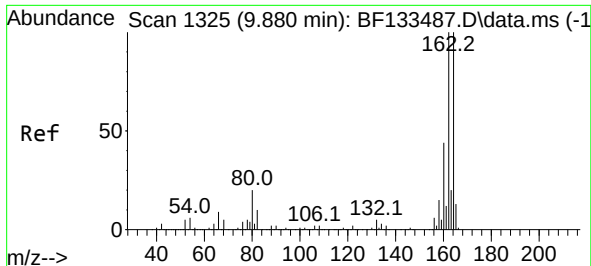
Tgt Ion:142 Resp: 42486

Ion Ratio Lower Upper

142 100

141 89.8 73.6 110.4





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.869 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF133582.D

Acq: 05 Jun 2023 23:52

Instrument :

BNA_F

ClientSampleId :

SB07

Tgt Ion:164 Resp: 200210

Ion Ratio Lower Upper

164 100

162 102.7 79.7 119.5

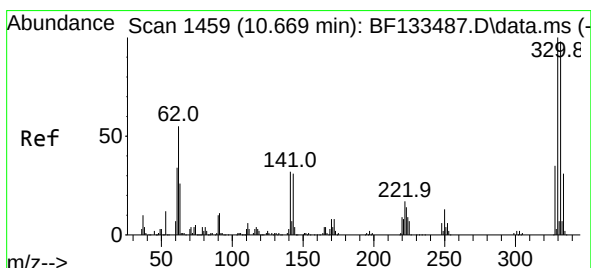
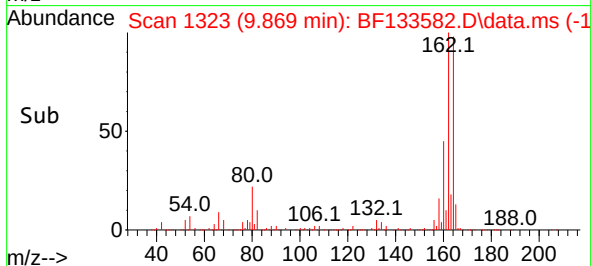
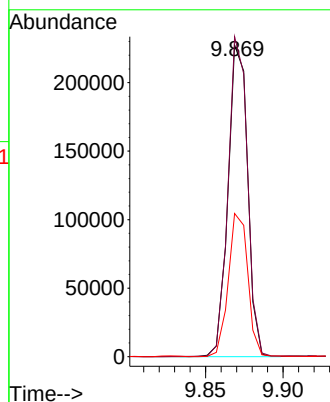
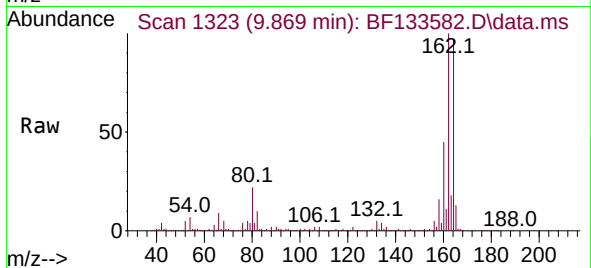
160 45.9 35.4 53.0

Manual Integrations

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Reviewed By :Yogesh Patel 06/06/2023

Supervised By :mohammad ahmed 06/08/2023



#42

2,4,6-Tribromophenol

Concen: 60.268 ng

RT: 10.657 min Scan# 1457

Delta R.T. -0.006 min

Lab File: BF133582.D

Acq: 05 Jun 2023 23:52

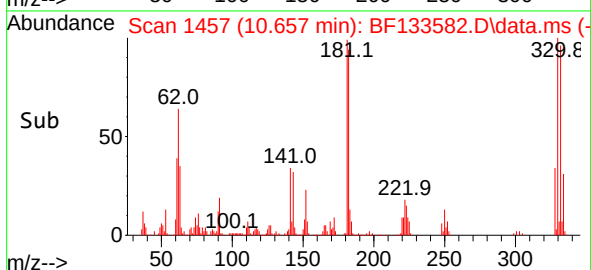
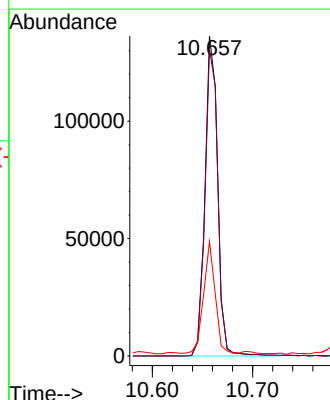
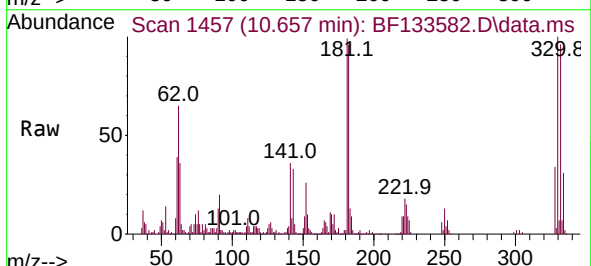
Tgt Ion:330 Resp: 120278

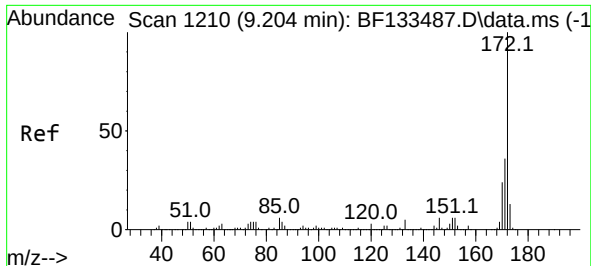
Ion Ratio Lower Upper

330 100

332 97.6 77.8 116.6

141 31.7 26.6 40.0





#45

2-Fluorobiphenyl

Concen: 43.801 ng

RT: 9.192 min Scan# 11

Delta R.T. 0.000 min

Lab File: BF133582.D

Acq: 05 Jun 2023 23:52

Instrument :

BNA_F

ClientSampleId :

SB07

Tgt Ion:172 Resp: 56816

Ion Ratio Lower Upper

172 100

171 35.4 28.4 42.6

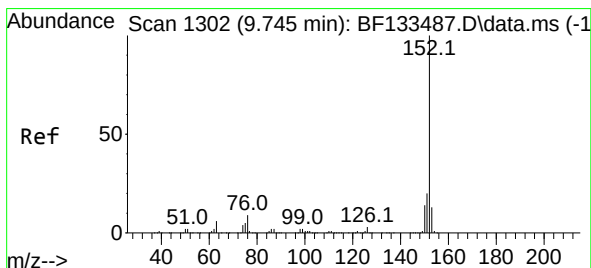
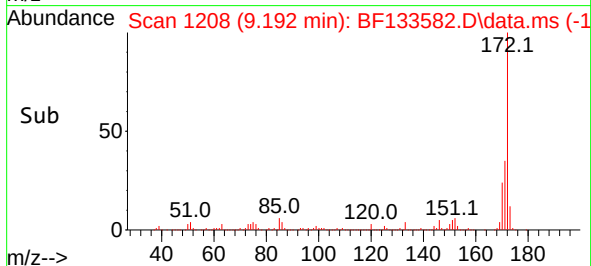
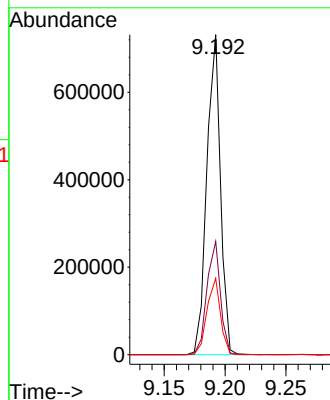
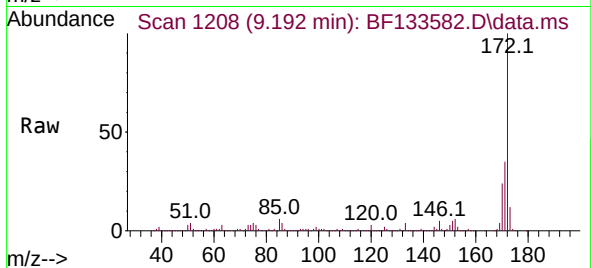
170 23.9 19.3 28.9

Manual Integrations

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Reviewed By :Yogesh Patel 06/06/2023

Supervised By :mohammad ahmed 06/08/2023



#49

Acenaphthylene

Concen: 11.768 ng

RT: 9.733 min Scan# 1300

Delta R.T. 0.000 min

Lab File: BF133582.D

Acq: 05 Jun 2023 23:52

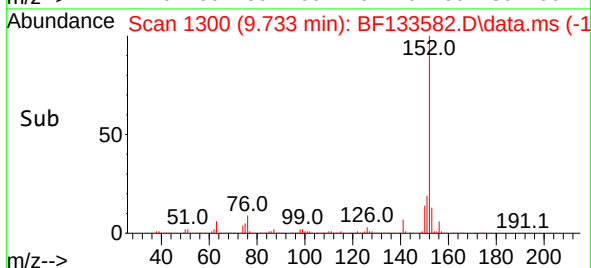
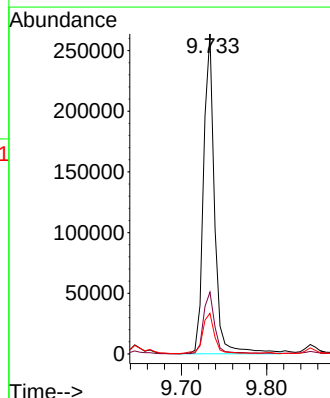
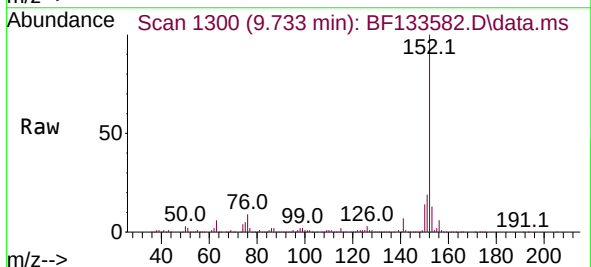
Tgt Ion:152 Resp: 236736

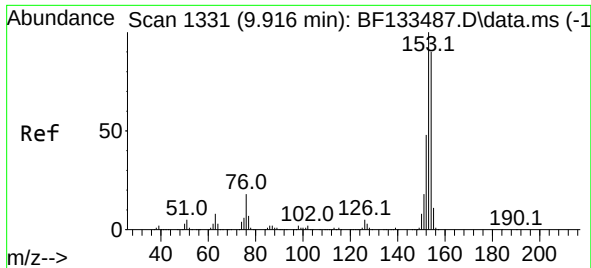
Ion Ratio Lower Upper

152 100

151 19.4 16.0 24.0

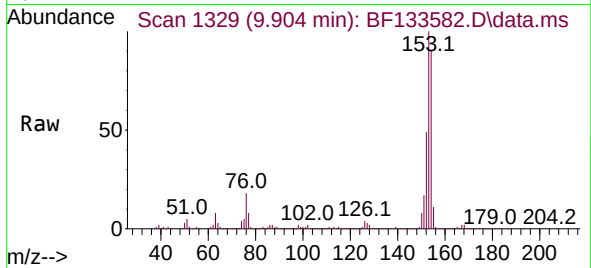
153 12.7 10.4 15.6





#52
Acenaphthene
Concen: 15.373 ng
RT: 9.904 min Scan# 1329
Delta R.T. 0.000 min
Lab File: BF133582.D
Acq: 05 Jun 2023 23:52

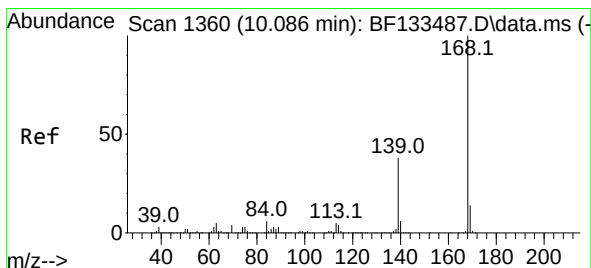
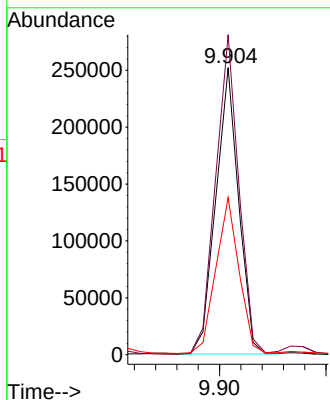
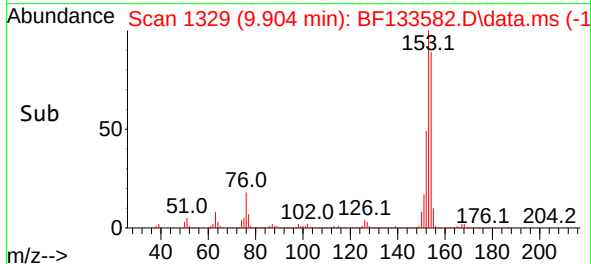
Instrument :
BNA_F
ClientSampleId :
SB07



Tgt Ion:154 Resp: 18733
Ion Ratio Lower Upper
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153 111.5 89.2 133.8
152 54.7 43.1 64.7

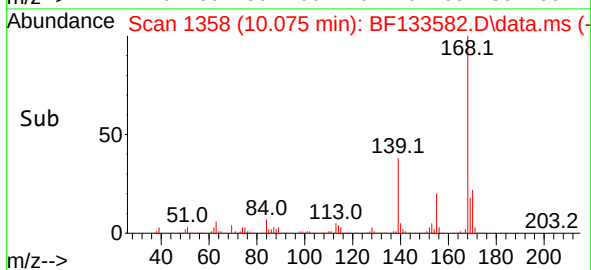
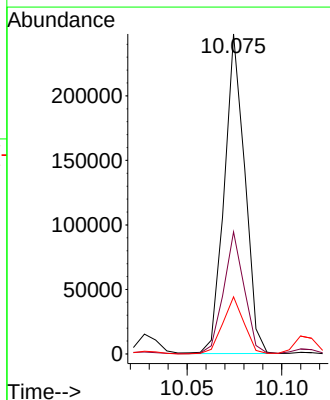
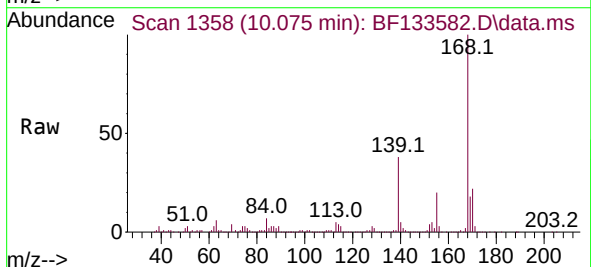
Manual Integrations
APPROVED

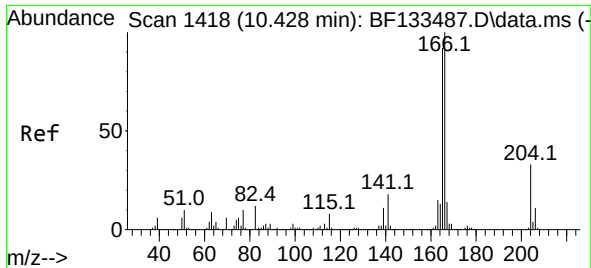
Reviewed By :Yogesh Patel 06/06/2023
Supervised By :mohammad ahmed 06/08/2023



#55
Dibenzofuran
Concen: 10.287 ng
RT: 10.075 min Scan# 1358
Delta R.T. -0.006 min
Lab File: BF133582.D
Acq: 05 Jun 2023 23:52

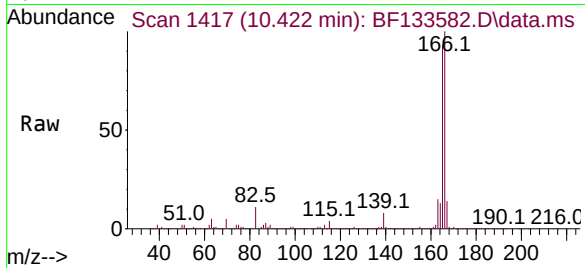
Tgt Ion:168 Resp: 186506
Ion Ratio Lower Upper
168 100
139 38.2 30.6 46.0
169 17.8 10.9 16.3#





#58
Fluorene
Concen: 24.145 ng
RT: 10.422 min Scan# 1418
Delta R.T. 0.000 min
Lab File: BF133582.D
Acq: 05 Jun 2023 23:52

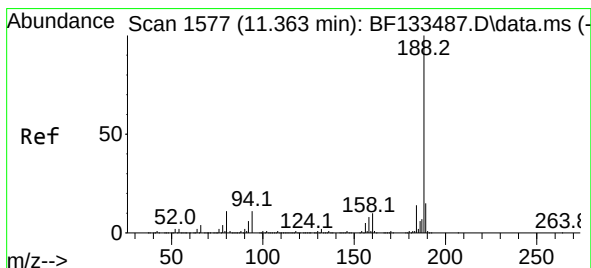
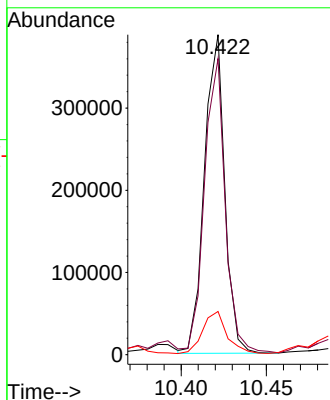
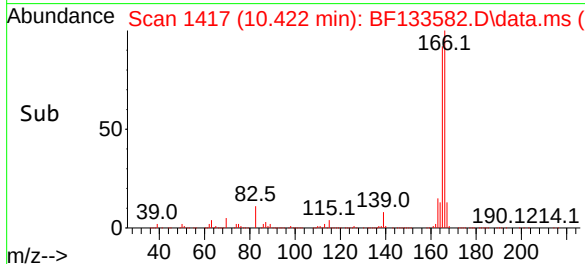
Instrument :
BNA_F
ClientSampleId :
SB07



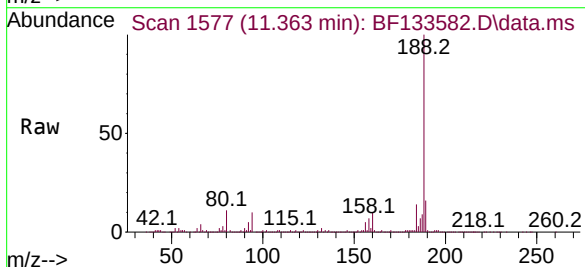
Tgt Ion:166 Resp: 32072
Ion Ratio Lower Upper
166 100
165 92.6 73.4 110.0
167 13.5 10.9 16.3

Manual Integrations
APPROVED

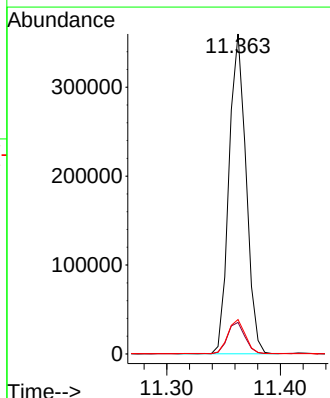
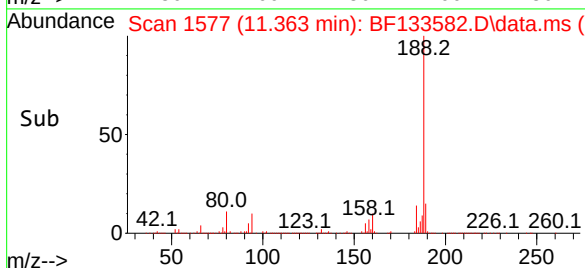
Reviewed By :Yogesh Patel 06/06/2023
Supervised By :mohammad ahmed 06/08/2023

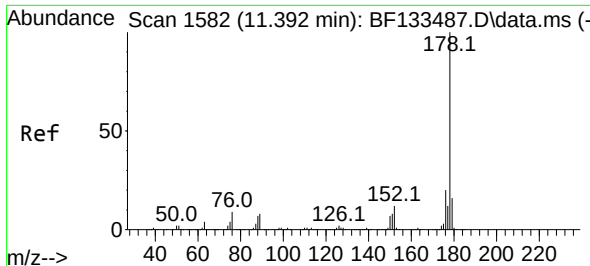


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.363 min Scan# 1577
Delta R.T. 0.006 min
Lab File: BF133582.D
Acq: 05 Jun 2023 23:52



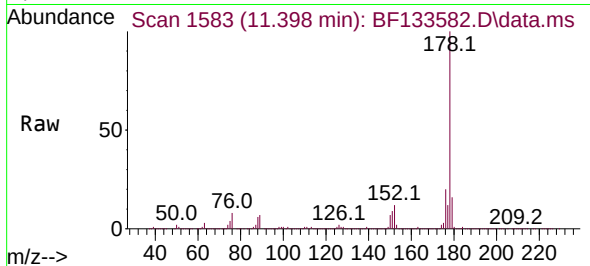
Tgt Ion:188 Resp: 374277
Ion Ratio Lower Upper
188 100
94 9.9 8.6 12.8
80 10.8 9.2 13.8





#71
Phenanthrene
Concen: 128.936 ng
RT: 11.398 min Scan# 1582
Delta R.T. 0.012 min
Lab File: BF133582.D
Acq: 05 Jun 2023 23:52

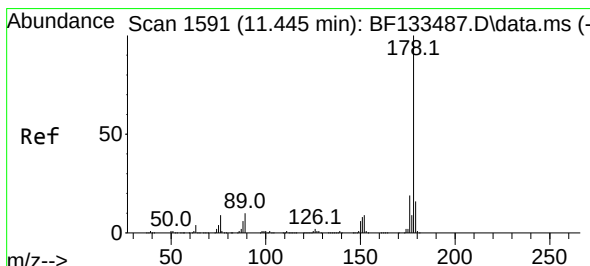
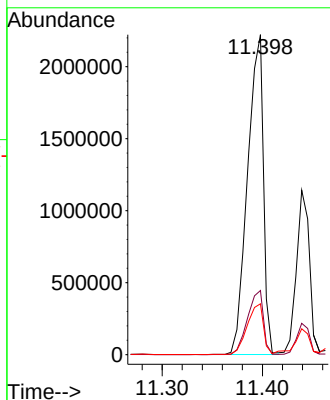
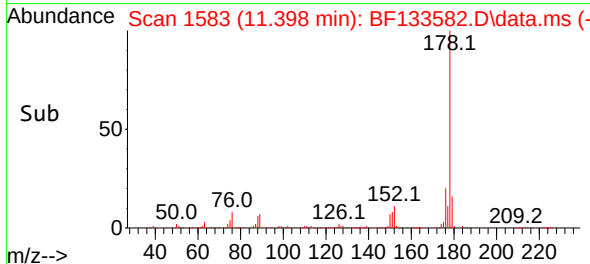
Instrument :
BNA_F
ClientSampleId :
SB07



Tgt Ion:178 Resp: 2444225
Ion Ratio Lower Upper
178 100
176 20.1 15.6 23.4
179 15.9 12.4 18.6

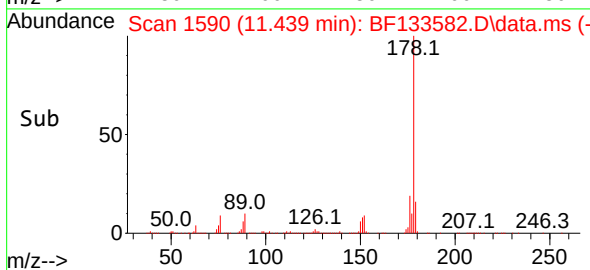
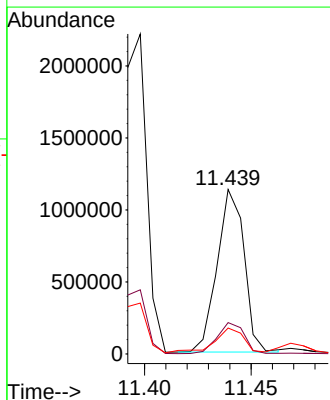
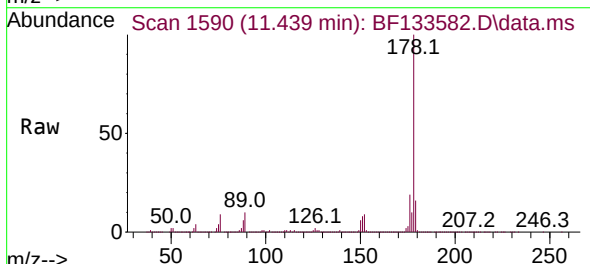
Manual Integrations
APPROVED

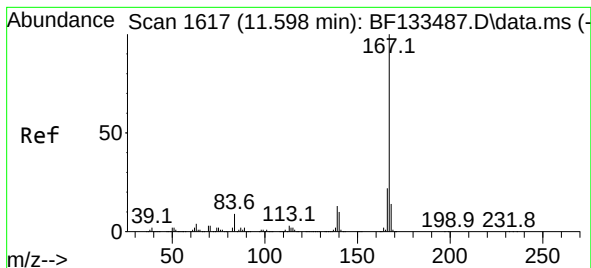
Reviewed By :Yogesh Patel 06/06/2023
Supervised By :mohammad ahmed 06/08/2023



#72
Anthracene
Concen: 51.089 ng
RT: 11.439 min Scan# 1590
Delta R.T. 0.006 min
Lab File: BF133582.D
Acq: 05 Jun 2023 23:52

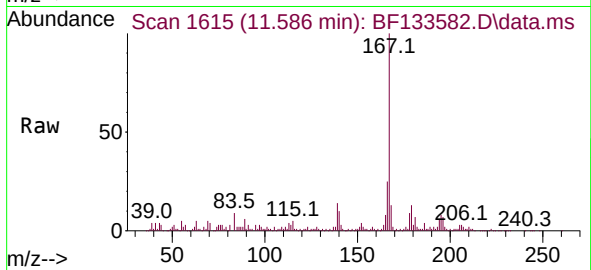
Tgt Ion:178 Resp: 996753
Ion Ratio Lower Upper
178 100
176 19.1 15.3 22.9
179 15.8 12.6 18.8





#73
 Carbazole
 Concen: 4.509 ng
 RT: 11.586 min Scan# 1615
 Delta R.T. -0.006 min
 Lab File: BF133582.D
 Acq: 05 Jun 2023 23:52

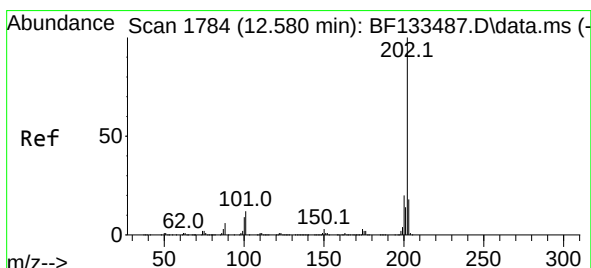
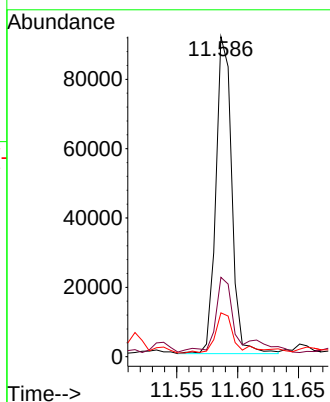
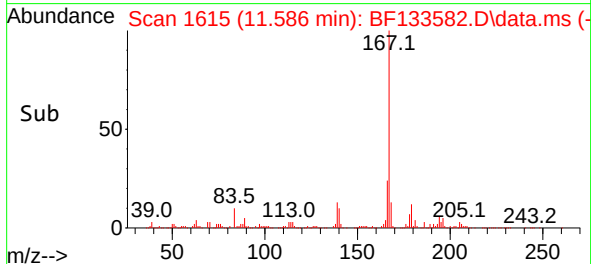
Instrument :
 BNA_F
 ClientSampleId :
 SB07



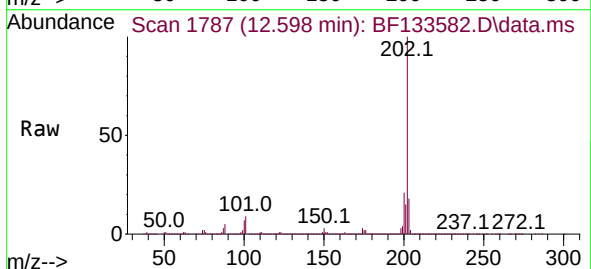
Tgt Ion:167 Resp: 83194
 Ion Ratio Lower Upper
 167 100
 166 24.8 17.3 25.9
 139 13.7 10.7 16.1

Manual Integrations
 APPROVED

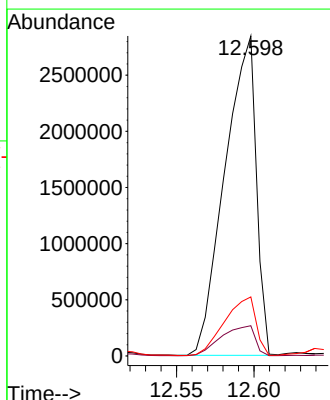
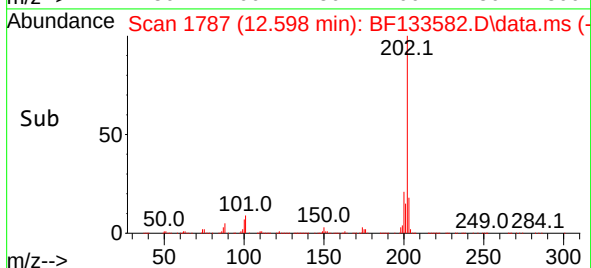
Reviewed By :Yogesh Patel 06/06/2023
 Supervised By :mohammad ahmed 06/08/2023

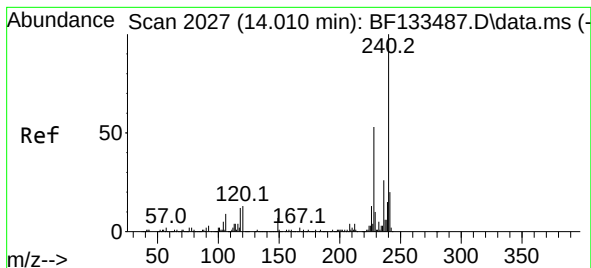


#75
 Fluoranthene
 Concen: 190.797 ng
 RT: 12.598 min Scan# 1787
 Delta R.T. 0.024 min
 Lab File: BF133582.D
 Acq: 05 Jun 2023 23:52



Tgt Ion:202 Resp: 3995143
 Ion Ratio Lower Upper
 202 100
 101 9.5 0.0 32.2
 203 18.4 0.0 37.8





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.015 min Scan# 2027

Delta R.T. 0.012 min

Lab File: BF133582.D

Acq: 05 Jun 2023 23:52

Instrument :

BNA_F

ClientSampleId :

SB07

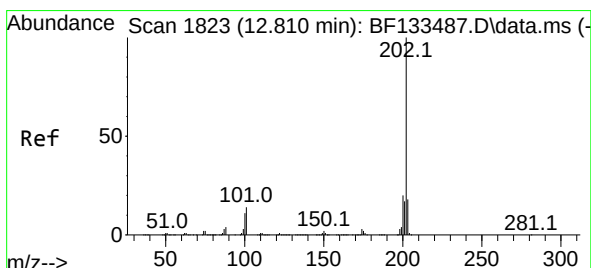
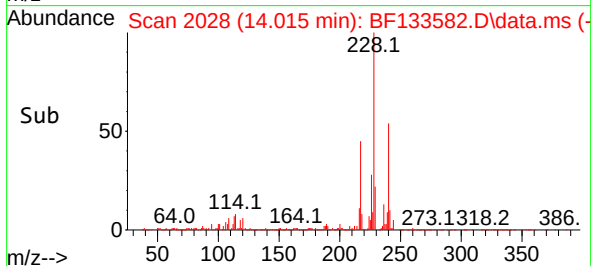
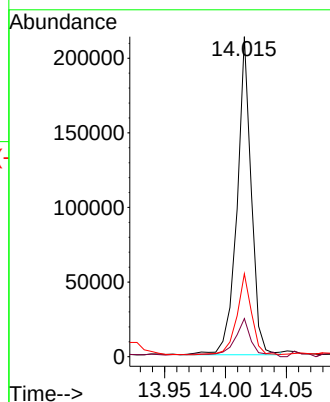
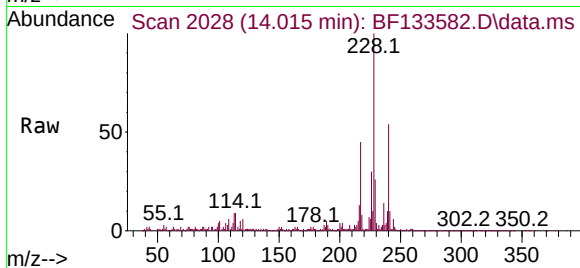
Tgt Ion:240 Resp: 173300
 Ion Ratio Lower Upper
 240 100
 120 11.9 10.3 15.5
 236 25.9 20.5 30.7

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 06/06/2023

Supervised By :mohammad ahmed 06/08/2023



#78

Pyrene

Concen: 234.700 ng

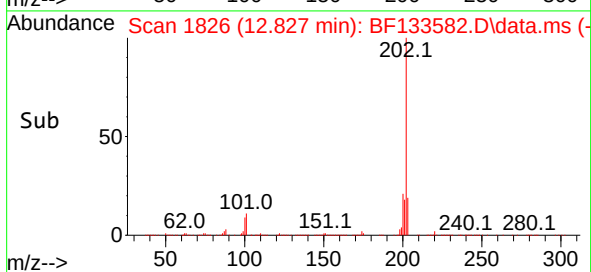
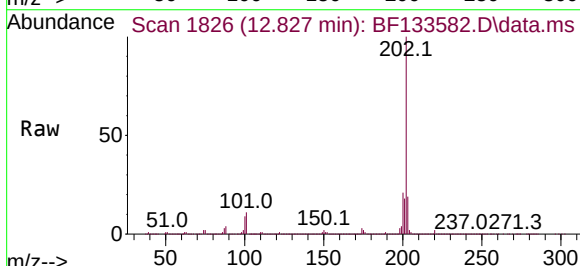
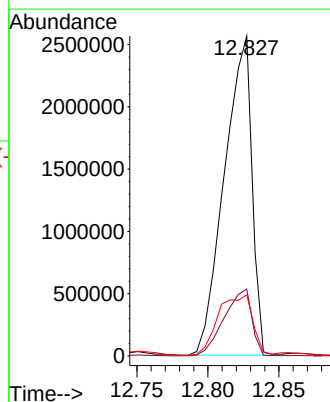
RT: 12.827 min Scan# 1826

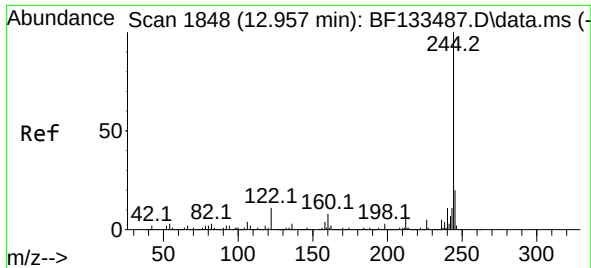
Delta R.T. 0.024 min

Lab File: BF133582.D

Acq: 05 Jun 2023 23:52

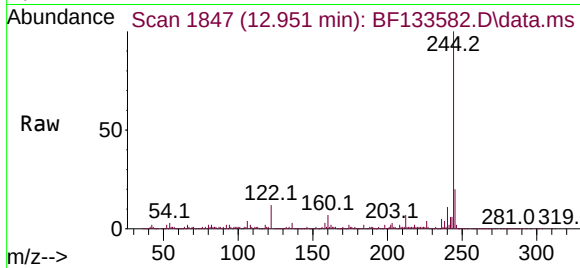
Tgt Ion:202 Resp: 3461160
 Ion Ratio Lower Upper
 202 100
 200 20.9 16.3 24.5
 203 19.1 14.3 21.5





#79
 Terphenyl-d14
 Concen: 53.767 ng
 RT: 12.951 min Scan# 1847
 Delta R.T. 0.006 min
 Lab File: BF133582.D
 Acq: 05 Jun 2023 23:52

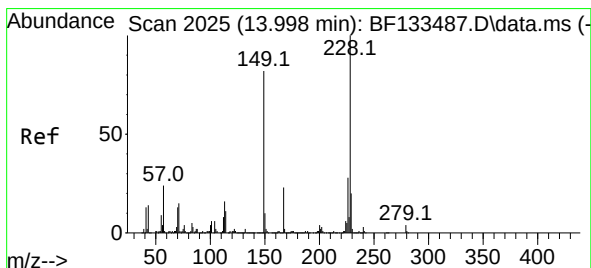
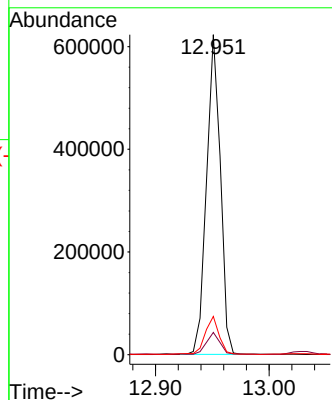
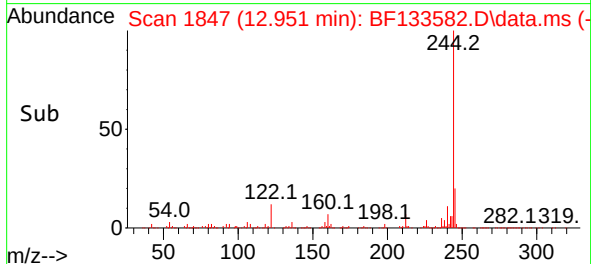
Instrument :
 BNA_F
 ClientSampleId :
 SB07



Tgt Ion:244 Resp: 524072
 Ion Ratio Lower Upper
 244 100
 212 6.9 5.8 8.6
 122 11.9 8.5 12.7

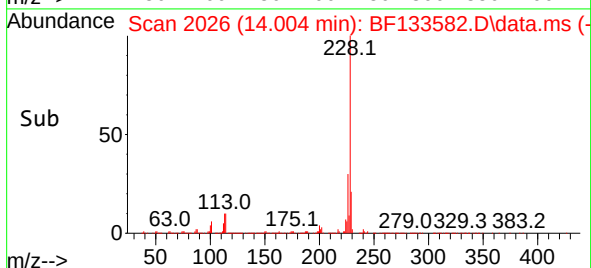
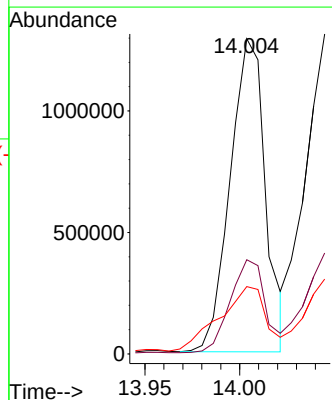
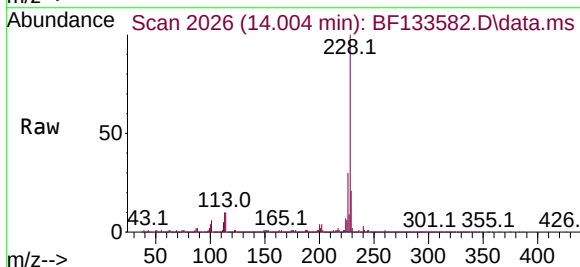
Manual Integrations
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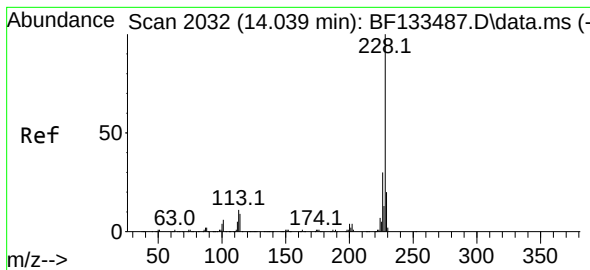
Reviewed By :Yogesh Patel 06/06/2023
 Supervised By :mohammad ahmed 06/08/2023



#81
 Benzo(a)anthracene
 Concen: 144.598 ng
 RT: 14.004 min Scan# 2026
 Delta R.T. 0.012 min
 Lab File: BF133582.D
 Acq: 05 Jun 2023 23:52

Tgt Ion:228 Resp: 1669342
 Ion Ratio Lower Upper
 228 100
 226 29.9 22.3 33.5
 229 21.4 16.1 24.1





#83

Chrysene

Concen: 118.668 ng

RT: 14.045 min Scan# 2032

Delta R.T. 0.018 min

Lab File: BF133582.D

Acq: 05 Jun 2023 23:52

Instrument :

BNA_F

ClientSampleId :

SB07

Tgt Ion:228 Resp: 1383020

Ion Ratio Lower Upper

228 100

226 31.5 24.1 36.1

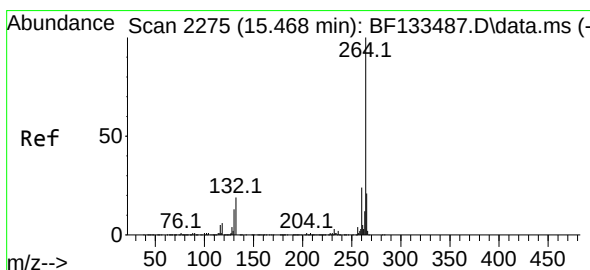
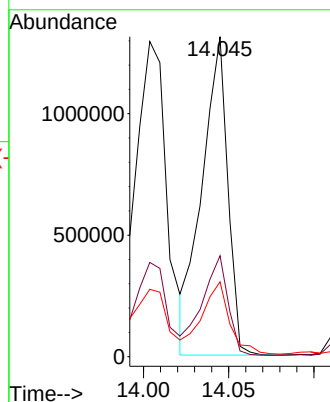
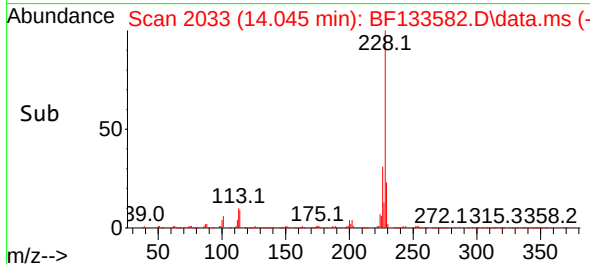
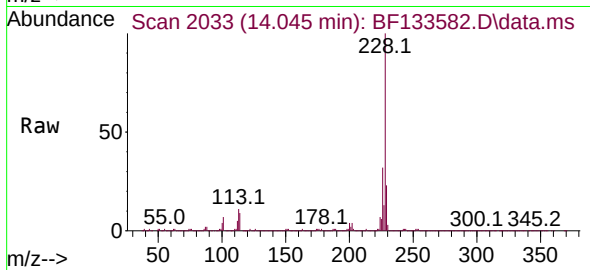
229 23.4 15.8 23.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 06/06/2023

Supervised By :mohammad ahmed 06/08/2023



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.480 min Scan# 2277

Delta R.T. 0.024 min

Lab File: BF133582.D

Acq: 05 Jun 2023 23:52

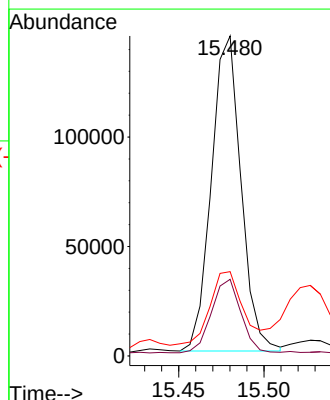
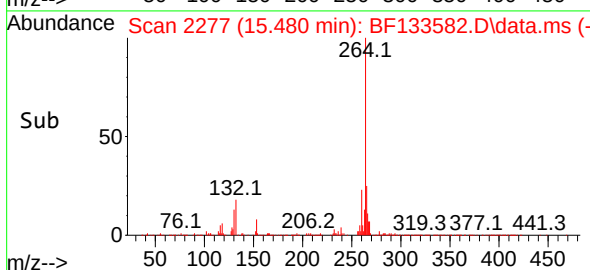
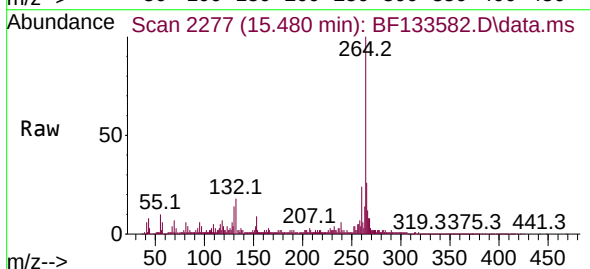
Tgt Ion:264 Resp: 174259

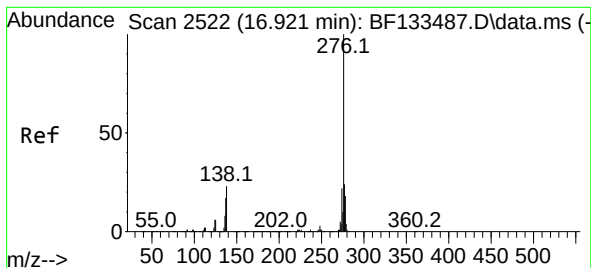
Ion Ratio Lower Upper

264 100

260 23.9 19.0 28.4

265 26.4 16.8 25.2#





#87

Indeno(1,2,3-cd)pyrene

Concen: 51.237 ng m

RT: 16.945 min Scan# 21

Delta R.T. 0.035 min

Lab File: BF133582.D

Acq: 05 Jun 2023 23:52

Instrument :

BNF

ClientSampleId :

SB07

Tgt Ion:276 Resp: 568730

Ion Ratio Lower Upper

276 100

138 4.9 21.4 32.2

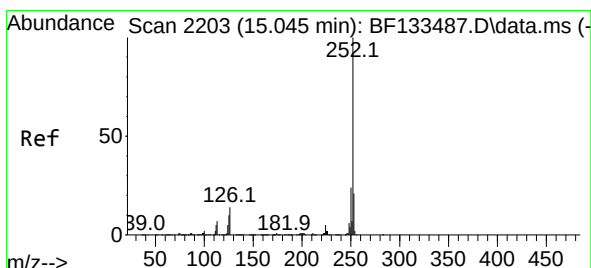
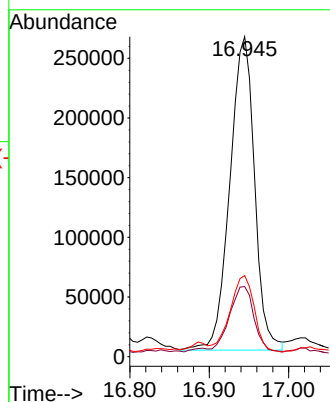
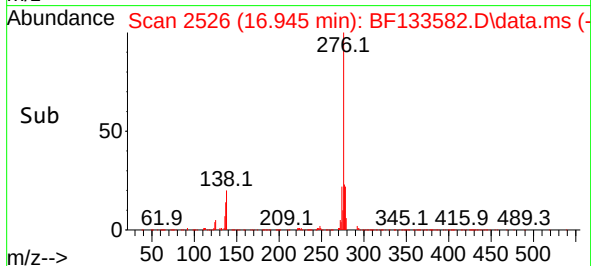
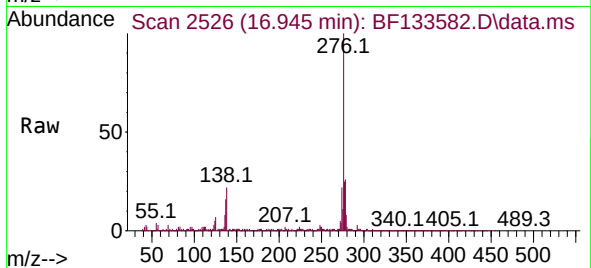
277 5.5 20.0 30.0

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 06/06/2023

Supervised By :mohammad ahmed 06/08/2023



#88

Benzo(b)fluoranthene

Concen: 129.321 ng m

RT: 15.062 min Scan# 2206

Delta R.T. 0.029 min

Lab File: BF133582.D

Acq: 05 Jun 2023 23:52

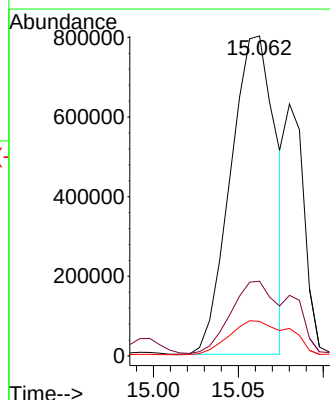
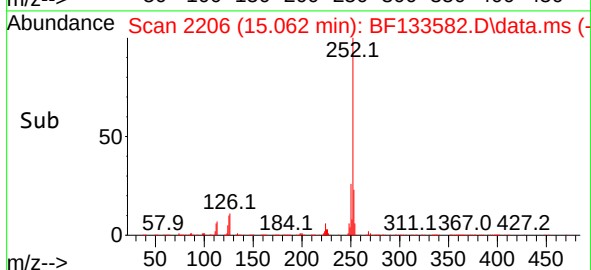
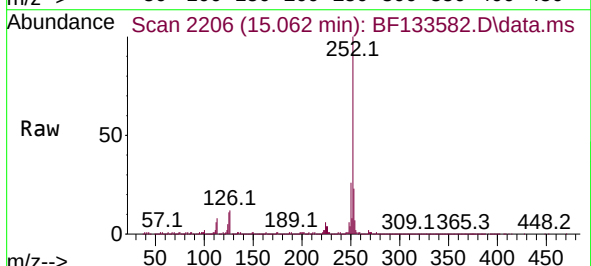
Tgt Ion:252 Resp: 1467438

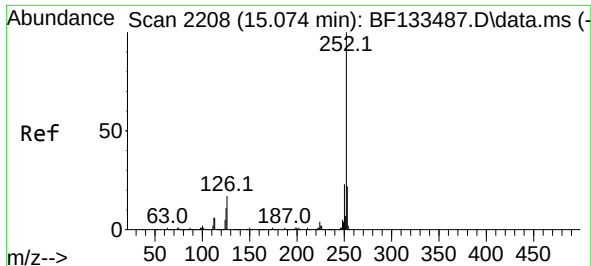
Ion Ratio Lower Upper

252 100

253 23.4 17.2 25.8

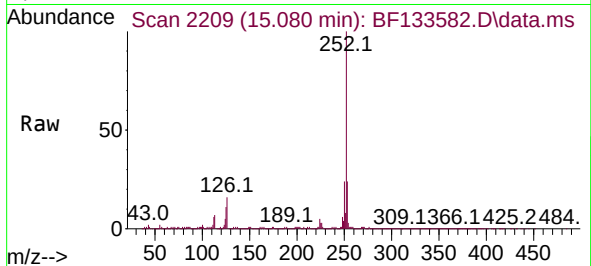
125 10.8 8.1 12.1





#89
Benzo(k)fluoranthene
Concen: 44.219 ng m
RT: 15.080 min Scan# 2209
Delta R.T. 0.018 min
Lab File: BF133582.D
Acq: 05 Jun 2023 23:52

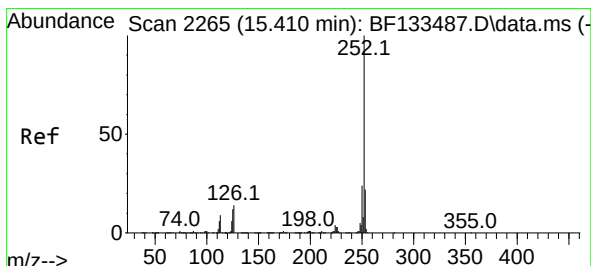
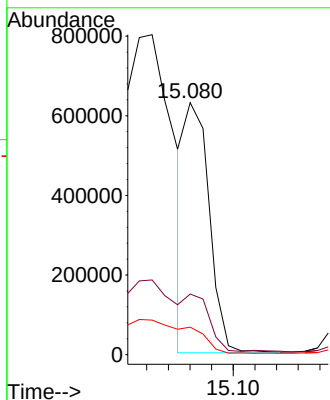
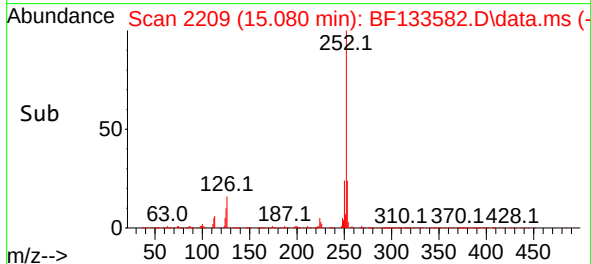
Instrument :
BNA_F
ClientSampleId :
SB07



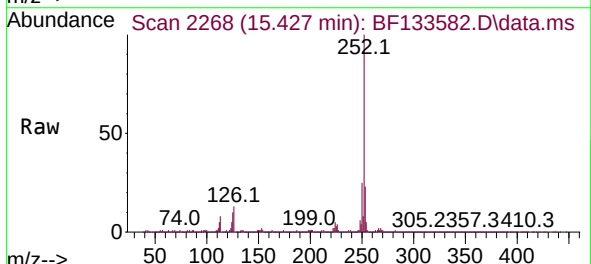
Tgt Ion:252 Resp: 489258
Ion Ratio Lower Upper
252 100
253 24.1 17.4 26.2
125 10.9 8.3 12.5

Manual Integrations
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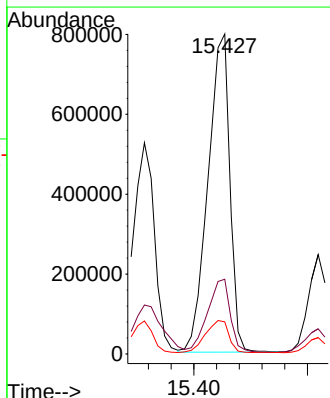
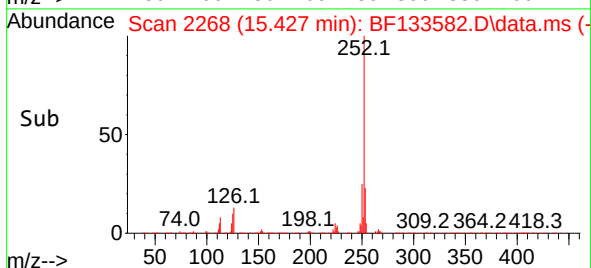
Reviewed By :Yogesh Patel 06/06/2023
Supervised By :mohammad ahmed 06/08/2023

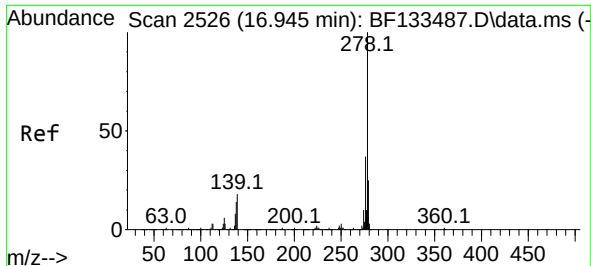


#90
Benzo(a)pyrene
Concen: 103.226 ng
RT: 15.427 min Scan# 2268
Delta R.T. 0.029 min
Lab File: BF133582.D
Acq: 05 Jun 2023 23:52



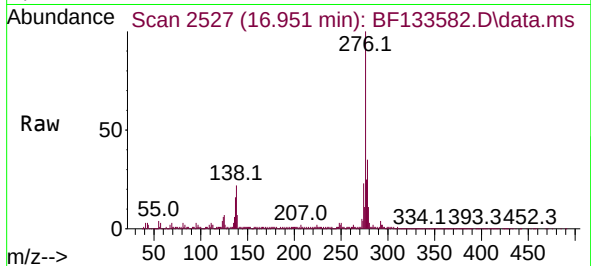
Tgt Ion:252 Resp: 1065844
Ion Ratio Lower Upper
252 100
253 23.4 17.4 26.0
125 10.1 9.4 14.0





#91
Dibenzo(a,h)anthracene
Concen: 16.848 ng m
RT: 16.951 min Scan# 21
Delta R.T. 0.024 min
Lab File: BF133582.D
Acq: 05 Jun 2023 23:52

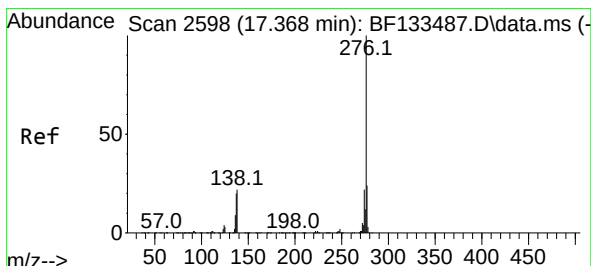
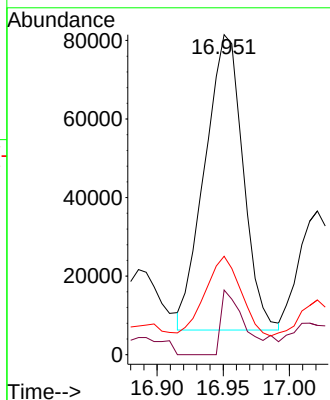
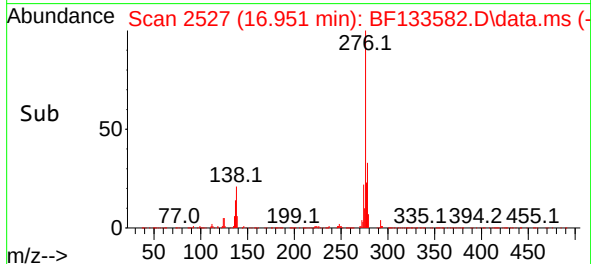
Instrument :
BNA_F
ClientSampleId :
SB07



Tgt Ion:278 Resp: 15162
Ion Ratio Lower Upper
278 100
139 20.2 14.1 21.1
279 30.7 19.7 29.5

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 06/06/2023
Supervised By :mohammad ahmed 06/08/2023



#92
Benzo(g,h,i)perylene
Concen: 54.901 ng
RT: 17.386 min Scan# 2601
Delta R.T. 0.041 min
Lab File: BF133582.D
Acq: 05 Jun 2023 23:52

Tgt Ion:276 Resp: 498206
Ion Ratio Lower Upper
276 100
277 24.7 18.8 28.2
138 22.4 17.8 26.6

