

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF103123\
 Data File : BF136051.D
 Acq On : 31 Oct 2023 15:02
 Operator : CG\JU
 Sample : 04805-01 5X
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 B-1(0-5)

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 11/01/2023
 Supervised By :mohammad ahmed 11/01/2023

Quant Time: Oct 31 16:09:36 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF103023.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Oct 31 01:13:02 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.822	152	136170	20.000	ng	0.00
21) Naphthalene-d8	8.104	136	502138	20.000	ng	0.00
39) Acenaphthene-d10	9.857	164	216553	20.000	ng	0.00
64) Phenanthrene-d10	11.351	188	333753	20.000	ng	0.00
76) Chrysene-d12	14.016	240	277244	20.000	ng	# 0.00
86) Perylene-d12	15.515	264	315359	20.000	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.440	112	176814	20.404	ng	-0.01
7) Phenol-d6	6.446	99	213482	19.773	ng	-0.01
23) Nitrobenzene-d5	7.375	82	114934	13.798	ng	-0.02
42) 2,4,6-Tribromophenol	10.651	330	37908	16.400	ng	0.00
45) 2-Fluorobiphenyl	9.181	172	219351	16.147	ng	0.00
79) Terphenyl-d14	12.951	244	196557	11.018	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.122	128	283908	11.725	ng	100
37) 2-Methylnaphthalene	8.816	142	122994	7.575	ng	98
38) 1-Methylnaphthalene	8.916	142	90370	5.981	ng	99
49) Acenaphthylene	9.722	152	167653	8.831	ng	99
52) Acenaphthene	9.892	154	153666	12.732	ng	99
55) Dibenzofuran	10.063	168	167115	9.496	ng	98
58) Fluorene	10.410	166	287731	21.837	ng	100
71) Phenanthrene	11.380	178	1479207	88.024	ng	100
72) Anthracene	11.428	178	539316	31.320	ng	100
73) Carbazole	11.580	167	60436	4.039	ng	98
75) Fluoranthene	12.580	202	2234490	129.435	ng	100
78) Pyrene	12.816	202	2069583	84.669	ng	99
81) Benzo(a)anthracene	14.010	228	1250123	68.110	ng	96
83) Chrysene	14.045	228	1107571	61.274	ng	97
87) Indeno(1,2,3-cd)pyrene	17.033	276	633738	30.748	ng	95
88) Benzo(b)fluoranthene	15.080	252	1780230m	95.402	ng	
89) Benzo(k)fluoranthene	15.104	252	502049m	27.192	ng	
90) Benzo(a)pyrene	15.457	252	1265879	73.010	ng	97
91) Dibenzo(a,h)anthracene	17.045	278	160257	9.492	ng	# 92
92) Benzo(g,h,i)perylene	17.498	276	547057	29.639	ng	99

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

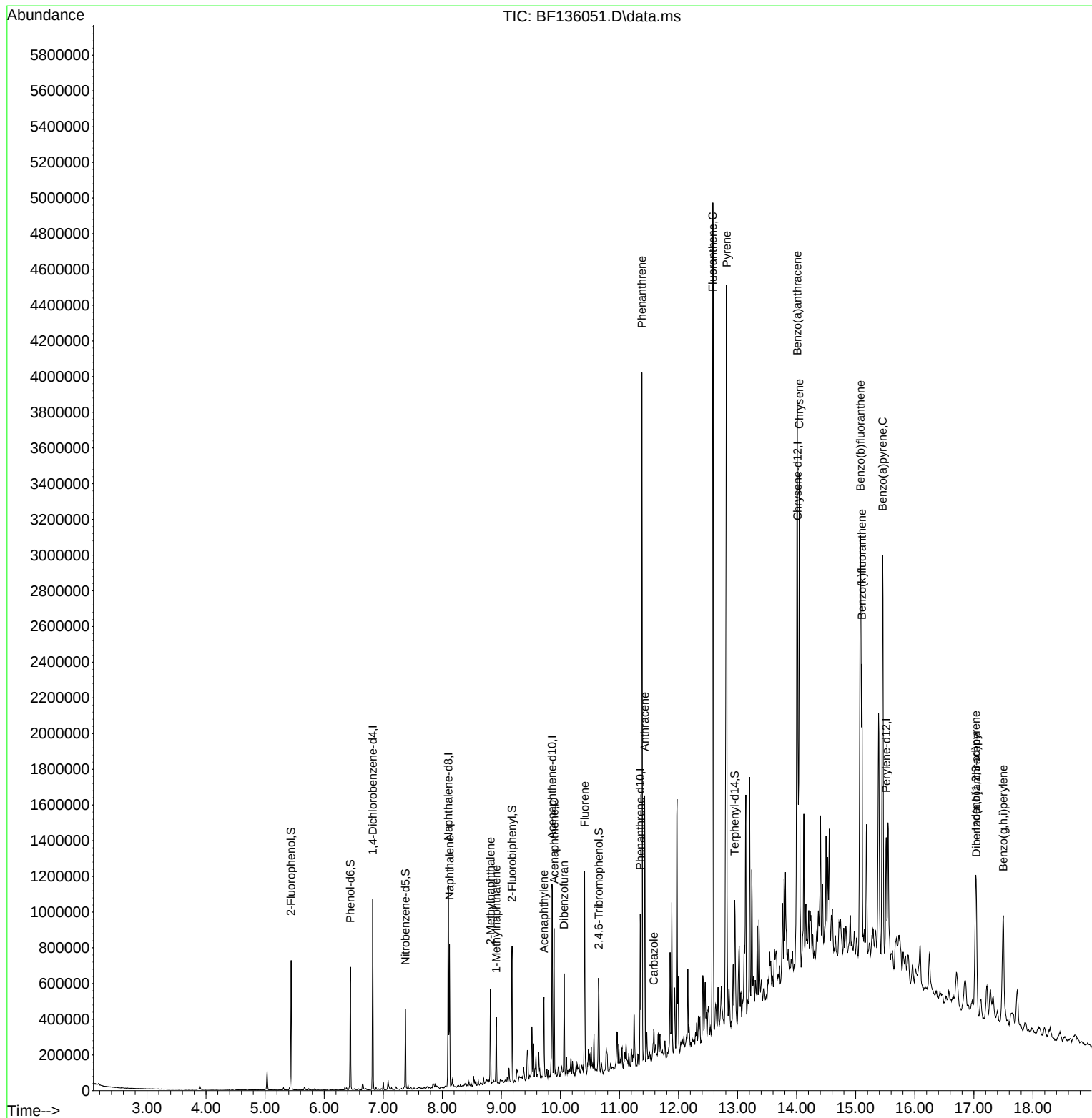
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF103123\
Data File : BF136051.D
Acq On : 31 Oct 2023 15:02
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Misc :
ALS Vial : 9 Sample Multiplier: 1

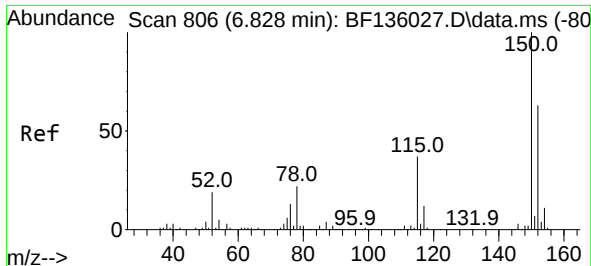
Instrument :
BNA_F
ClientSampleId :
B-1(0-5)

Quant Time: Oct 31 16:09:36 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF103023.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 31 01:13:02 2023
Response via : Initial Calibration

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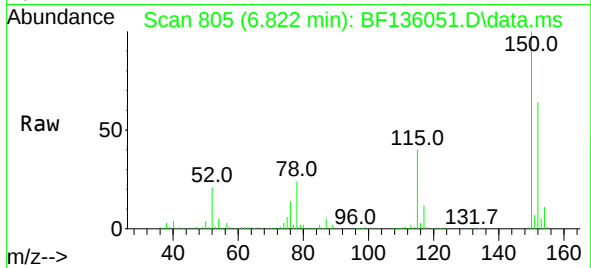
Reviewed By :Yogesh Patel 11/01/2023
Supervised By :mohammad ahmed 11/01/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.822 min Scan# 806
Delta R.T. -0.006 min
Lab File: BF136051.D
Acq: 31 Oct 2023 15:02

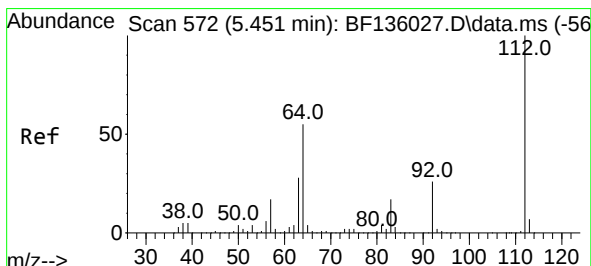
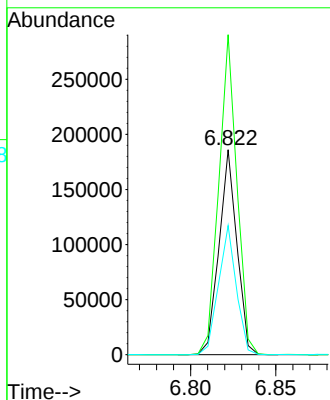
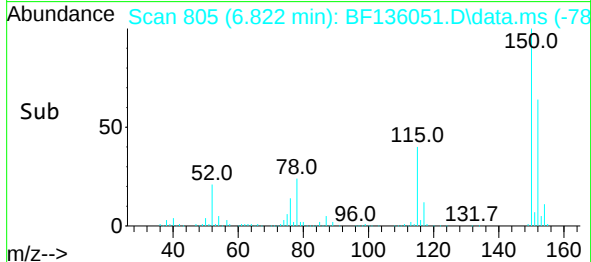
Instrument :
BNA_F
Client SampleId :
B-1(0-5)



Tgt Ion:152 Resp: 136170
Ion Ratio Lower Upper
152 100
150 156.2 126.4 189.6
115 63.1 47.0 70.4

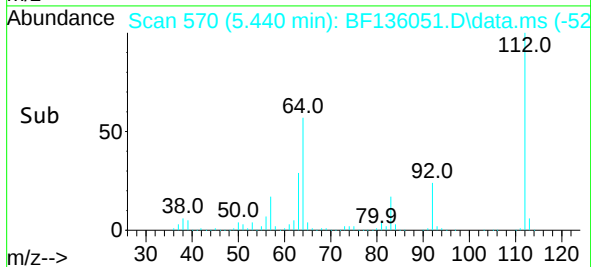
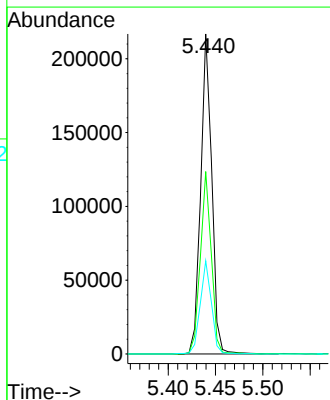
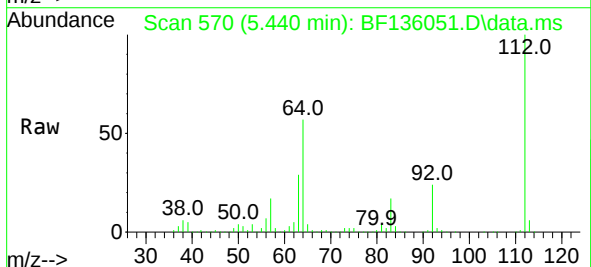
Manual Integrations
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Reviewed By :Yogesh Patel 11/01/2023
Supervised By :mohammad ahmed 11/01/2023



#5
2-Fluorophenol
Concen: 20.404 ng
RT: 5.440 min Scan# 570
Delta R.T. -0.012 min
Lab File: BF136051.D
Acq: 31 Oct 2023 15:02

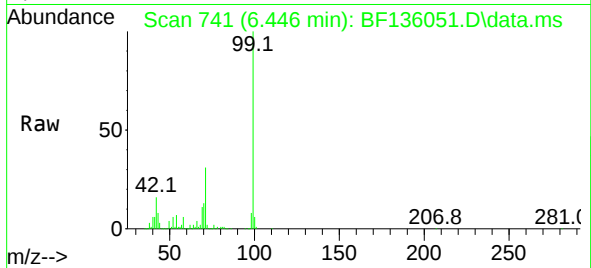
Tgt Ion:112 Resp: 176814
Ion Ratio Lower Upper
112 100
64 57.0 43.9 65.9
63 29.1 22.4 33.6





#7
Phenol-d6
Concen: 19.773 ng
RT: 6.446 min Scan# 743
Delta R.T. -0.012 min
Lab File: BF136051.D
Acq: 31 Oct 2023 15:02

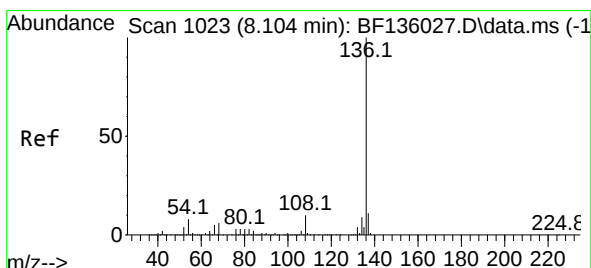
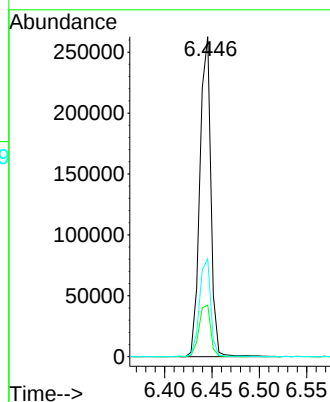
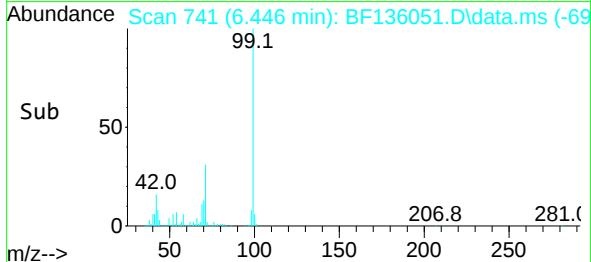
Instrument :
BNA_F
Client SampleId :
B-1(0-5)



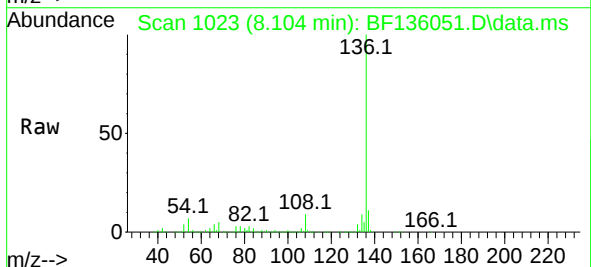
Tgt Ion: 99 Resp: 21348
Ion Ratio Lower Upper
99 100
42 16.2 13.7 20.5
71 30.6 25.9 38.9

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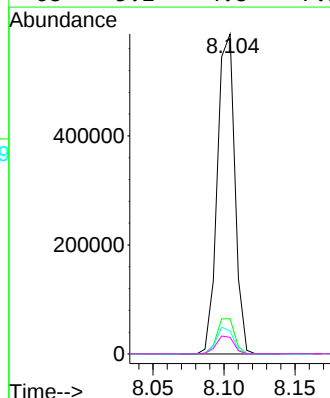
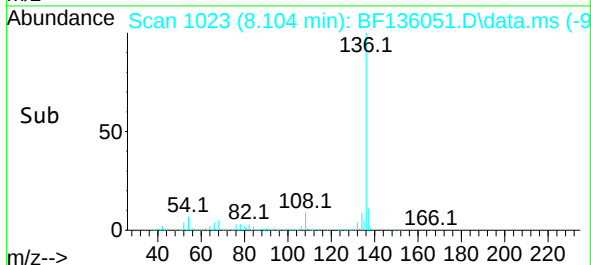
Reviewed By :Yogesh Patel 11/01/2023
Supervised By :mohammad ahmed 11/01/2023



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.104 min Scan# 1023
Delta R.T. 0.000 min
Lab File: BF136051.D
Acq: 31 Oct 2023 15:02



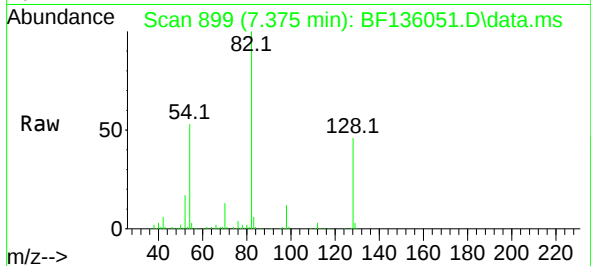
Tgt Ion:136 Resp: 502138
Ion Ratio Lower Upper
136 100
137 11.0 8.6 13.0
54 7.2 6.6 9.8
68 5.2 4.8 7.2





#23
Nitrobenzene-d5
Concen: 13.798 ng
RT: 7.375 min Scan# 899
Delta R.T. -0.017 min
Lab File: BF136051.D
Acq: 31 Oct 2023 15:02

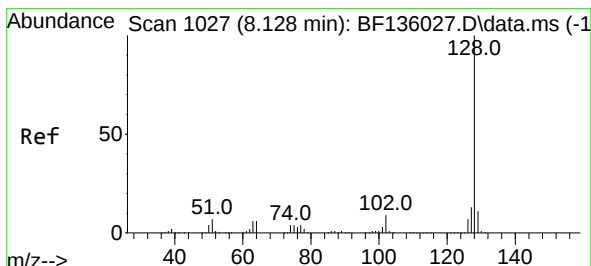
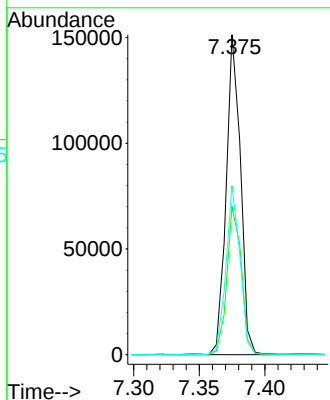
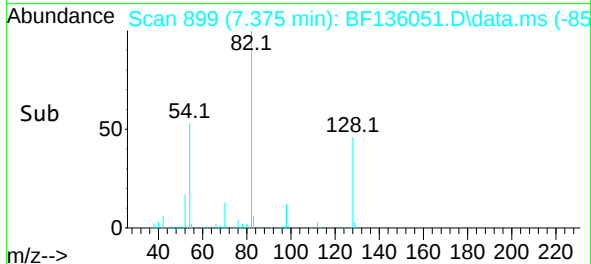
Instrument :
BNA_F
ClientSampleId :
B-1(0-5)



Tgt Ion: 82 Resp: 114934
Ion Ratio Lower Upper
82 100
128 46.2 38.6 57.8
54 52.8 40.8 61.2

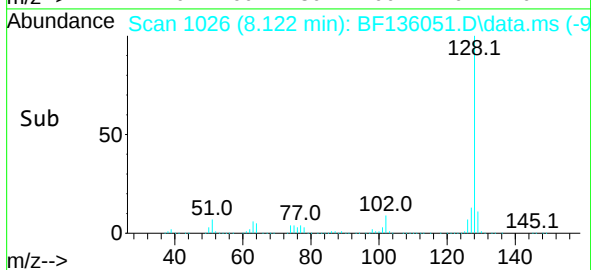
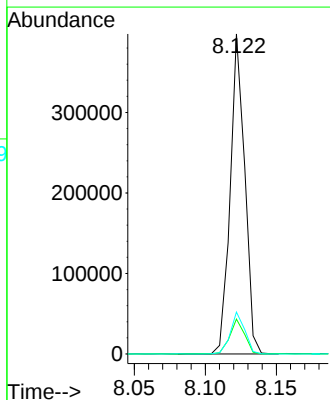
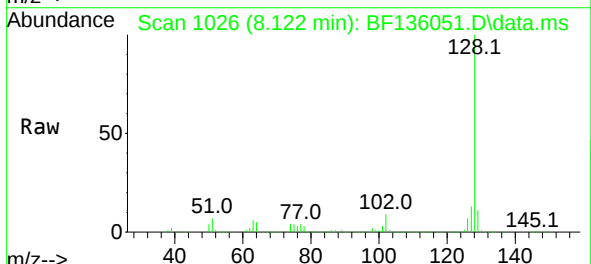
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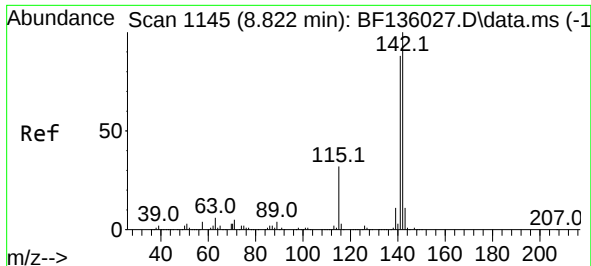
Reviewed By :Yogesh Patel 11/01/2023
Supervised By :mohammad ahmed 11/01/2023



#31
Naphthalene
Concen: 11.725 ng
RT: 8.122 min Scan# 1026
Delta R.T. -0.006 min
Lab File: BF136051.D
Acq: 31 Oct 2023 15:02

Tgt Ion:128 Resp: 283908
Ion Ratio Lower Upper
128 100
129 10.9 8.9 13.3
127 13.1 10.5 15.7





#37

2-Methylnaphthalene

Concen: 7.575 ng

RT: 8.816 min Scan# 1144

Delta R.T. -0.006 min

Lab File: BF136051.D

Acq: 31 Oct 2023 15:02

Instrument :

BNA_F

ClientSampleId :

B-1(0-5)

Tgt Ion:142 Resp: 122994

Ion Ratio Lower Upper

142 100

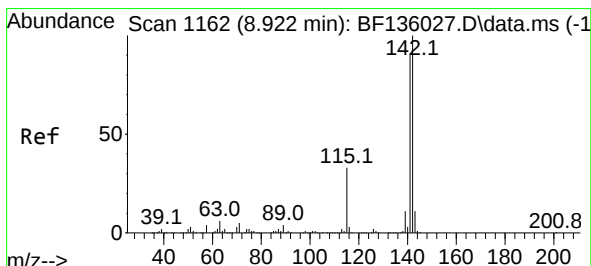
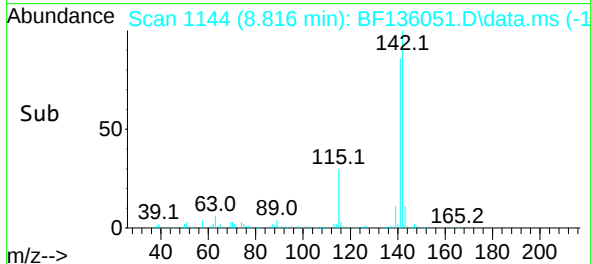
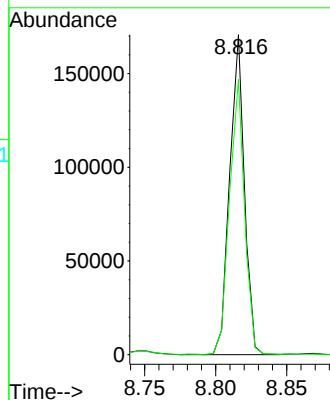
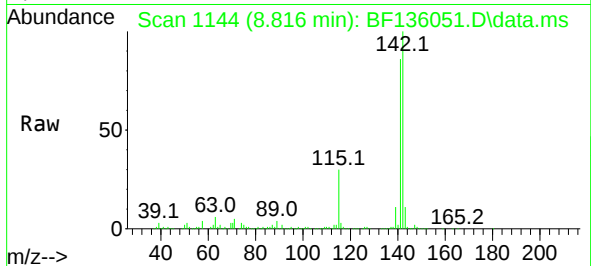
141 86.0 70.4 105.6

Manual Integrations

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Supervised By :mohammad ahmed 11/01/2023



#38

1-Methylnaphthalene

Concen: 5.981 ng

RT: 8.916 min Scan# 1161

Delta R.T. -0.006 min

Lab File: BF136051.D

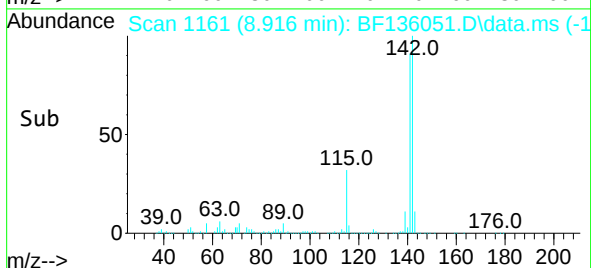
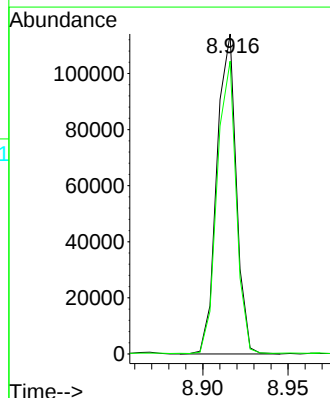
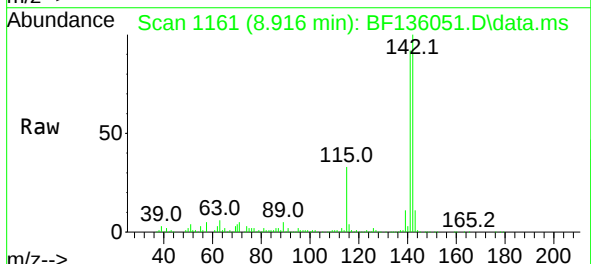
Acq: 31 Oct 2023 15:02

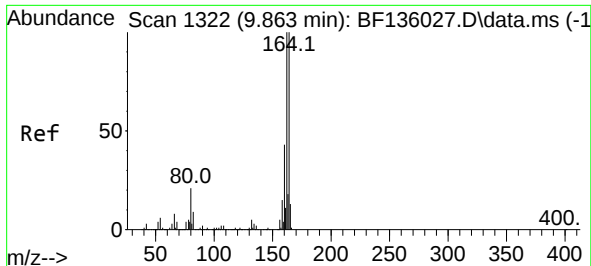
Tgt Ion:142 Resp: 90370

Ion Ratio Lower Upper

142 100

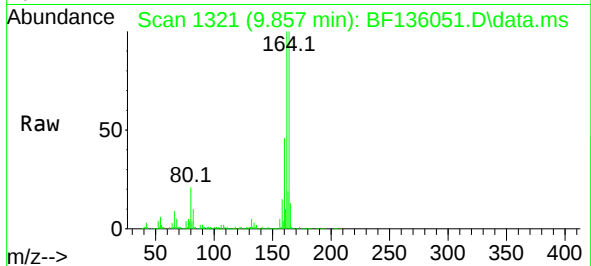
141 91.5 72.6 109.0





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.857 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF136051.D
Acq: 31 Oct 2023 15:02

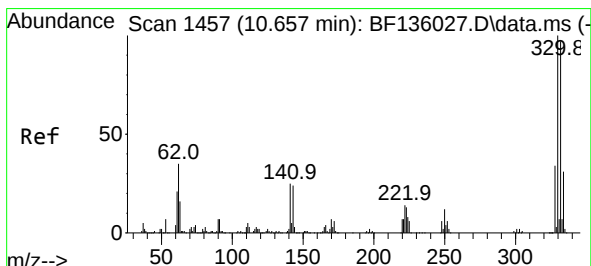
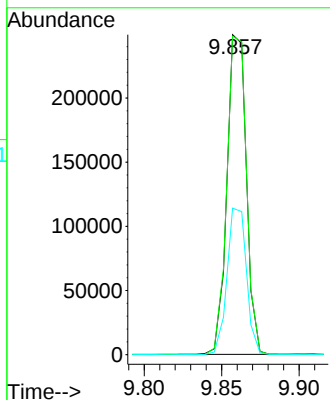
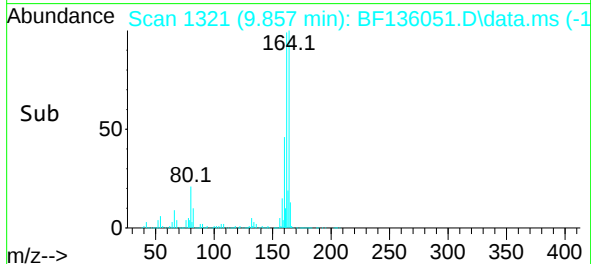
Instrument :
BNA_F
ClientSampleId :
B-1(0-5)



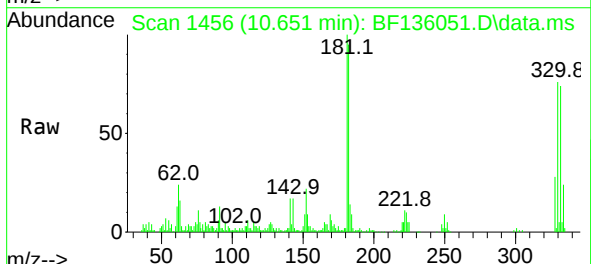
Tgt Ion:164 Resp: 21655
Ion Ratio Lower Upper
164 100
162 99.6 80.1 120.1
160 45.8 34.8 52.2

Manual Integrations
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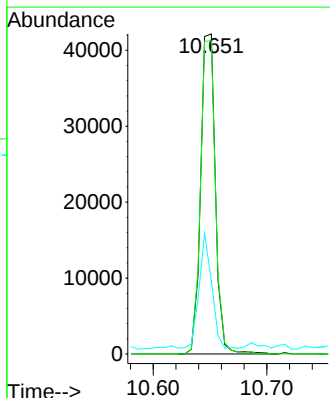
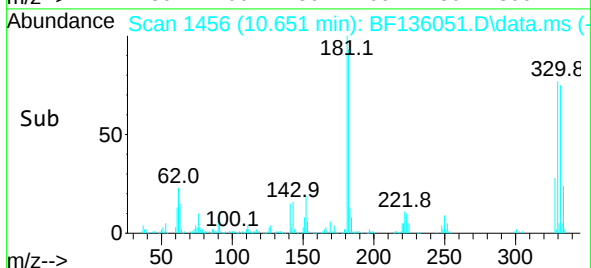
Reviewed By :Yogesh Patel 11/01/2023
Supervised By :mohammad ahmed 11/01/2023

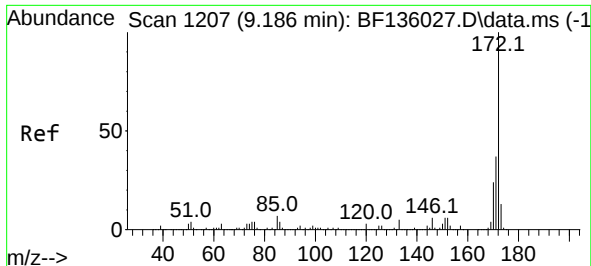


#42
2,4,6-Tribromophenol
Concen: 16.400 ng
RT: 10.651 min Scan# 1456
Delta R.T. -0.006 min
Lab File: BF136051.D
Acq: 31 Oct 2023 15:02



Tgt Ion:330 Resp: 37908
Ion Ratio Lower Upper
330 100
332 99.7 76.9 115.3
141 30.6 23.2 34.8





#45

2-Fluorobiphenyl

Concen: 16.147 ng

RT: 9.181 min Scan# 1206

Delta R.T. -0.006 min

Lab File: BF136051.D

Acq: 31 Oct 2023 15:02

Instrument :

BNA_F

ClientSampleId :

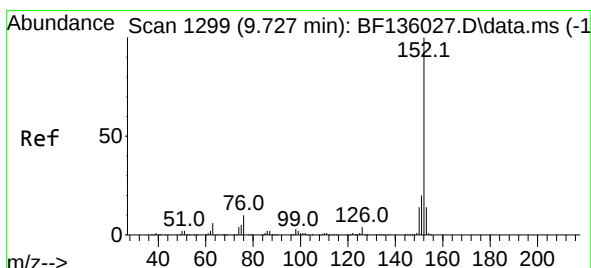
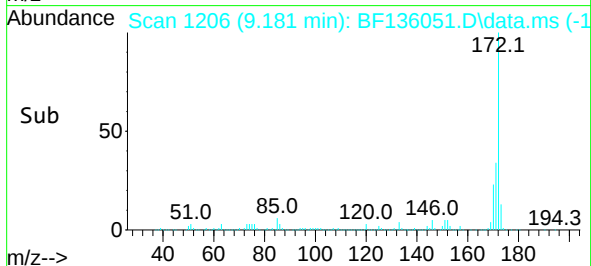
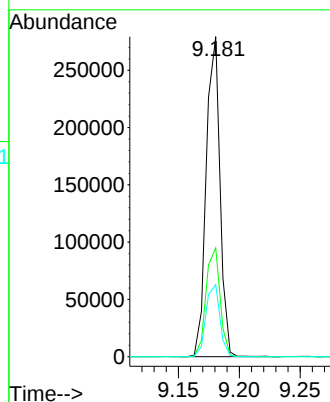
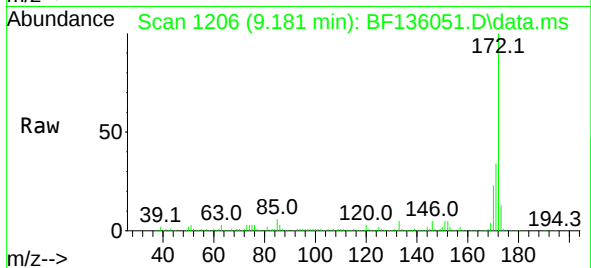
B-1(0-5)

Tgt Ion:172 Resp: 21935
 Ion Ratio Lower Upper
 172 100
 171 34.0 29.4 44.0
 170 22.5 19.3 28.9

Manual Integrations

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 Supervised By :mohammad ahmed 11/01/2023



#49

Acenaphthylene

Concen: 8.831 ng

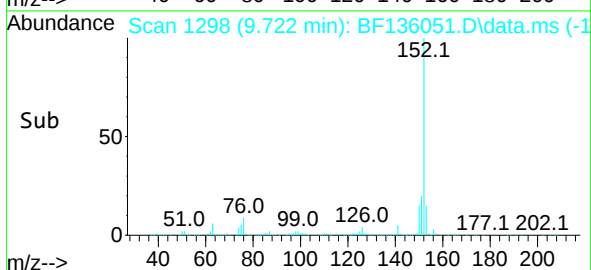
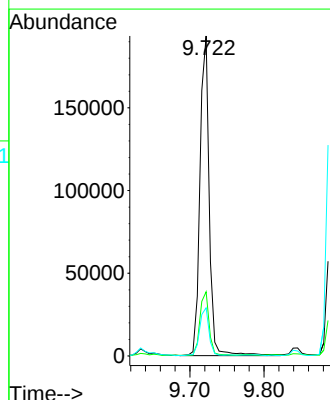
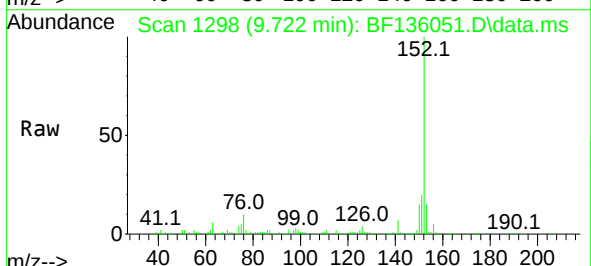
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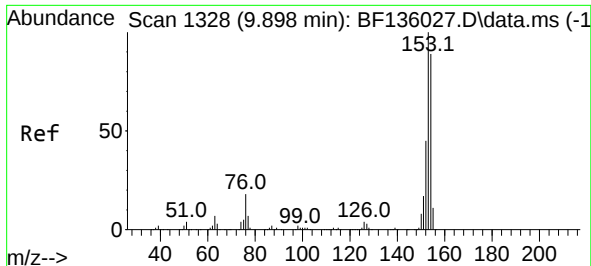
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Lab File: BF136051.D

Acq: 31 Oct 2023 15:02

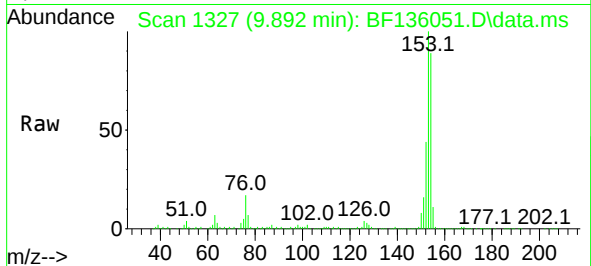
Tgt Ion:152 Resp: 167653
 Ion Ratio Lower Upper
 152 100
 151 20.0 16.1 24.1
 153 15.0 11.4 17.2





#52
Acenaphthene
Concen: 12.732 ng
RT: 9.892 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF136051.D
Acq: 31 Oct 2023 15:02

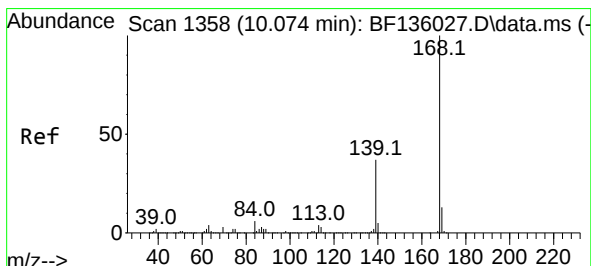
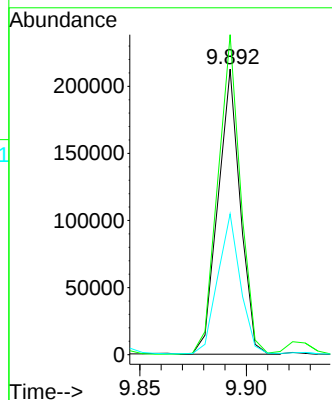
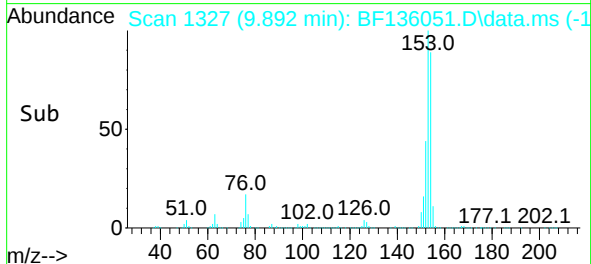
Instrument :
BNA_F
ClientSampleId :
B-1(0-5)



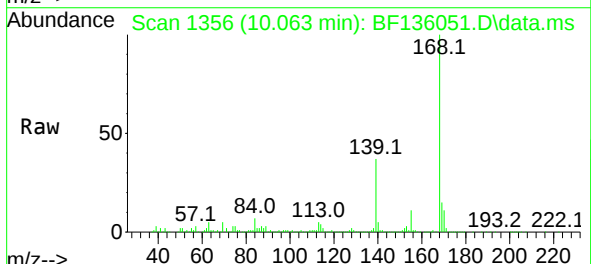
Tgt Ion:154 Resp: 15366
Ion Ratio Lower Upper
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153 112.1 89.9 134.9
152 49.3 40.2 60.2

Manual Integrations
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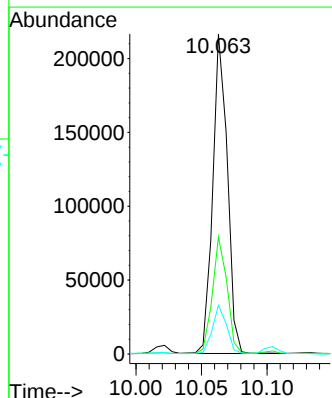
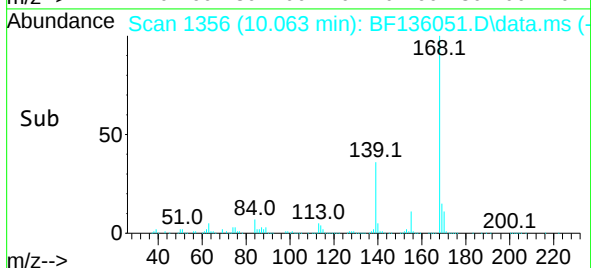
Reviewed By :Yogesh Patel 11/01/2023
Supervised By :mohammad ahmed 11/01/2023

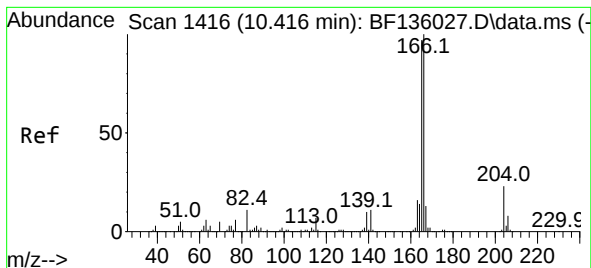


#55
Dibenzofuran
Concen: 9.496 ng
RT: 10.063 min Scan# 1356
Delta R.T. -0.012 min
Lab File: BF136051.D
Acq: 31 Oct 2023 15:02



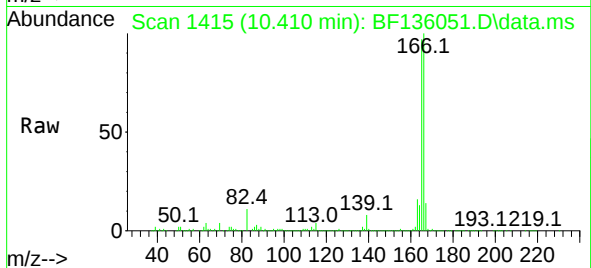
Tgt Ion:168 Resp: 167115
Ion Ratio Lower Upper
168 100
139 36.6 29.4 44.0
169 15.2 10.5 15.7





#58
Fluorene
Concen: 21.837 ng
RT: 10.410 min Scan# 1416
Delta R.T. -0.006 min
Lab File: BF136051.D
Acq: 31 Oct 2023 15:02

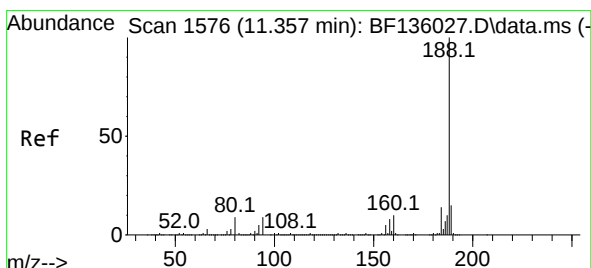
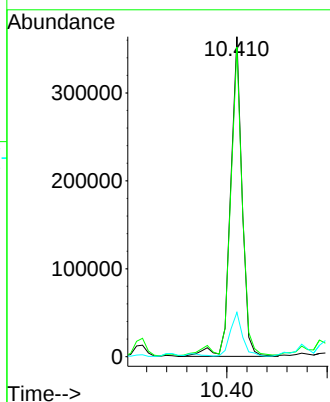
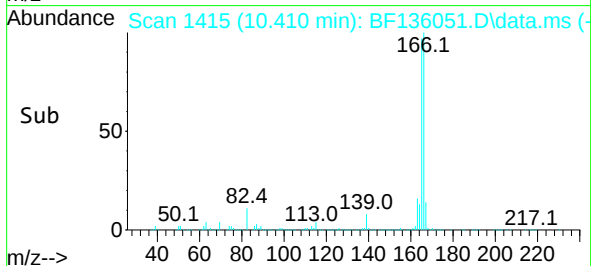
Instrument :
BNA_F
ClientSampleId :
B-1(0-5)



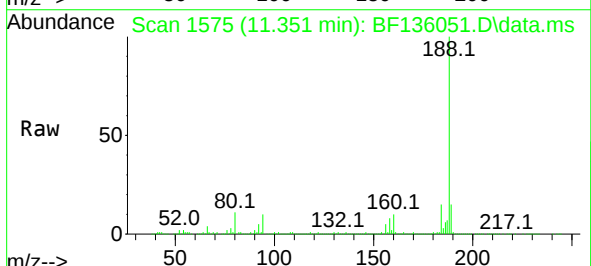
Tgt Ion:166 Resp: 28773
Ion Ratio Lower Upper
166 100
165 96.8 77.7 116.5
167 13.8 10.6 16.0

Manual Integrations
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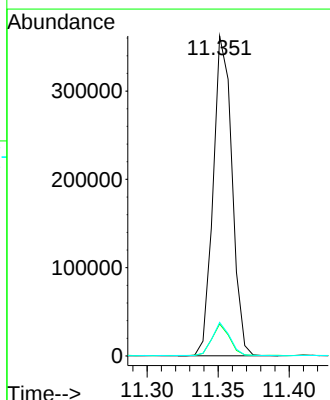
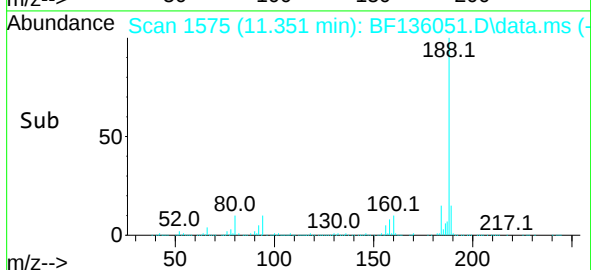
Reviewed By :Yogesh Patel 11/01/2023
Supervised By :mohammad ahmed 11/01/2023

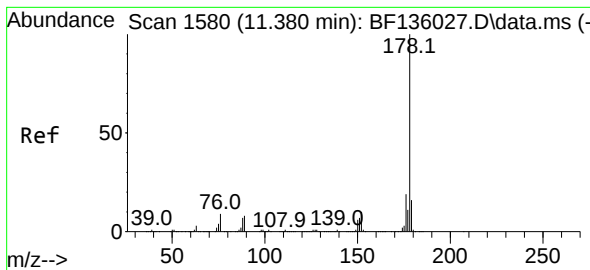


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.351 min Scan# 1575
Delta R.T. -0.006 min
Lab File: BF136051.D
Acq: 31 Oct 2023 15:02



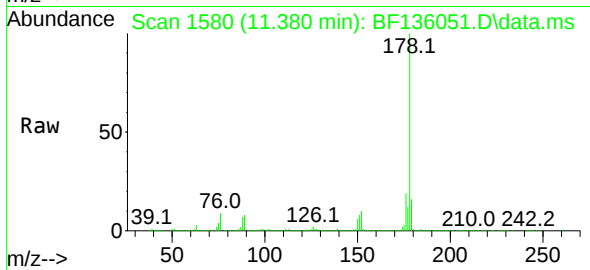
Tgt Ion:188 Resp: 333753
Ion Ratio Lower Upper
188 100
94 10.0 7.2 10.8
80 10.5 7.4 11.0





#71
Phenanthrene
Concen: 88.024 ng
RT: 11.380 min Scan# 1580
Delta R.T. 0.000 min
Lab File: BF136051.D
Acq: 31 Oct 2023 15:02

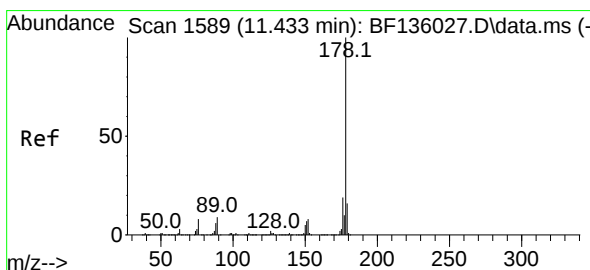
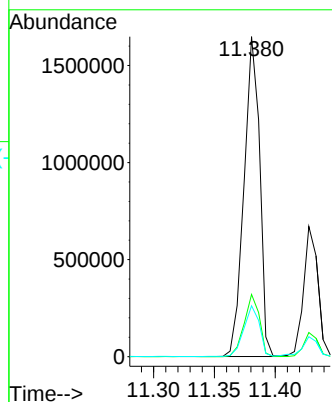
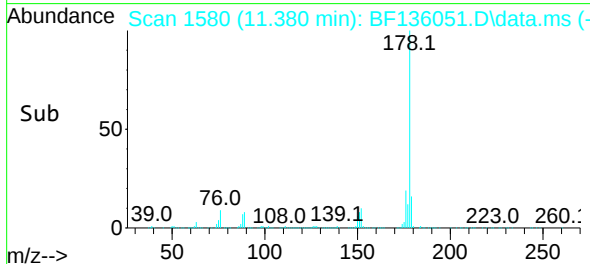
Instrument :
BNA_F
ClientSampleId :
B-1(0-5)



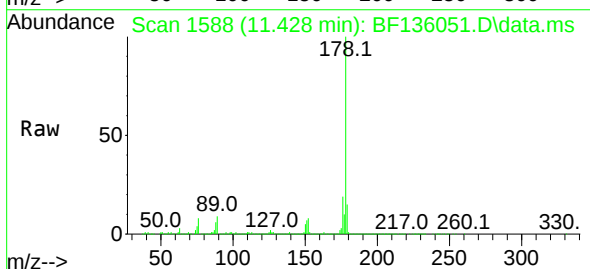
Tgt Ion:178 Resp: 147920
Ion Ratio Lower Upper
178 100
176 19.4 15.5 23.3
179 15.9 12.9 19.3

Manual Integrations
APPROVED

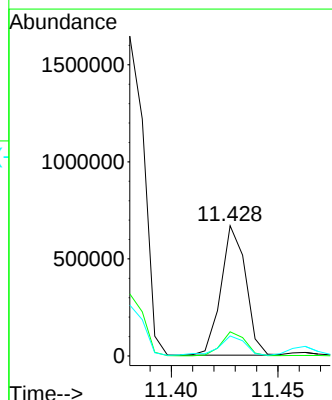
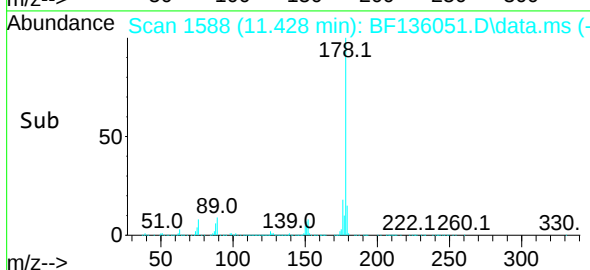
Reviewed By :Yogesh Patel 11/01/2023
Supervised By :mohammad ahmed 11/01/2023

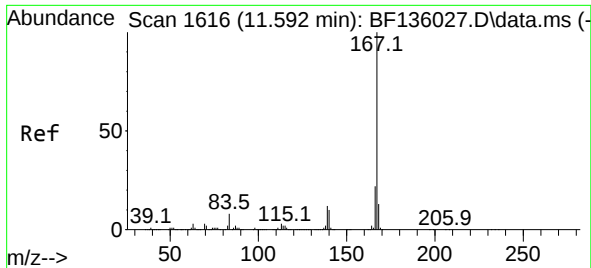


#72
Anthracene
Concen: 31.320 ng
RT: 11.428 min Scan# 1588
Delta R.T. -0.006 min
Lab File: BF136051.D
Acq: 31 Oct 2023 15:02



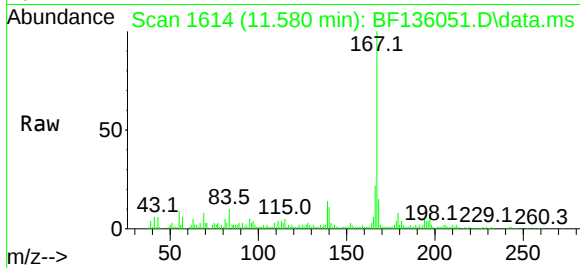
Tgt Ion:178 Resp: 539316
Ion Ratio Lower Upper
178 100
176 18.5 15.0 22.4
179 15.4 12.6 18.8





#73
 Carbazole
 Concen: 4.039 ng
 RT: 11.580 min Scan# 1616
 Delta R.T. -0.012 min
 Lab File: BF136051.D
 Acq: 31 Oct 2023 15:02

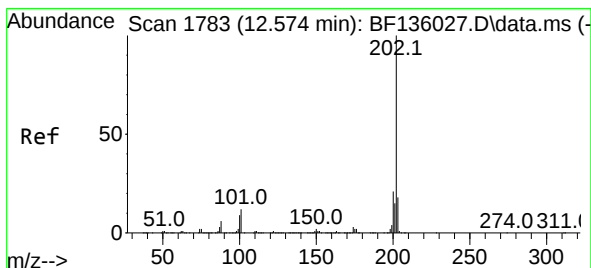
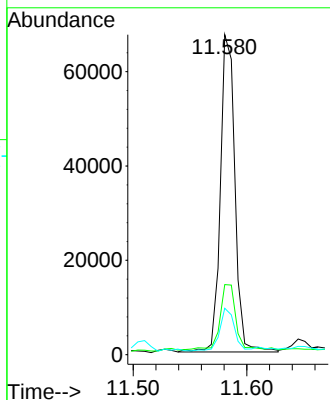
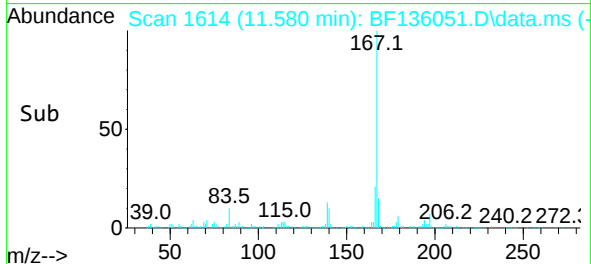
Instrument :
 BNA_F
 ClientSampleId :
 B-1(0-5)



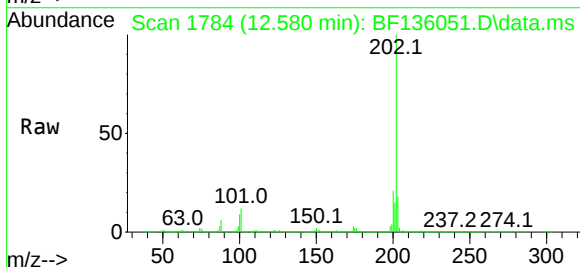
Tgt Ion:167 Resp: 60430
 Ion Ratio Lower Upper
 167 100
 166 21.9 17.2 25.8
 139 14.5 9.9 14.9

Manual Integrations
 APPROVED

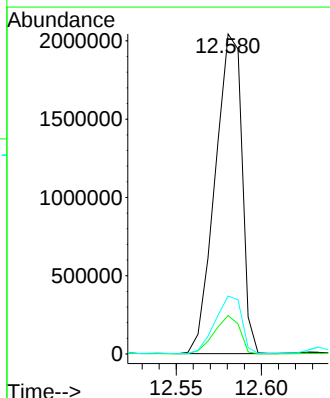
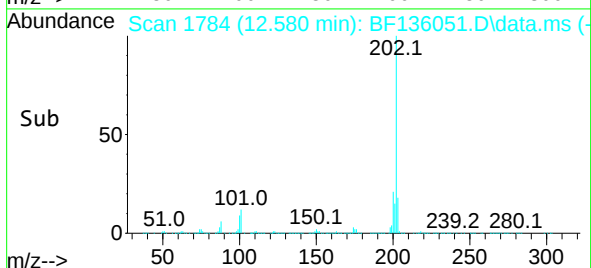
Reviewed By :Yogesh Patel 11/01/2023
 Supervised By :mohammad ahmed 11/01/2023

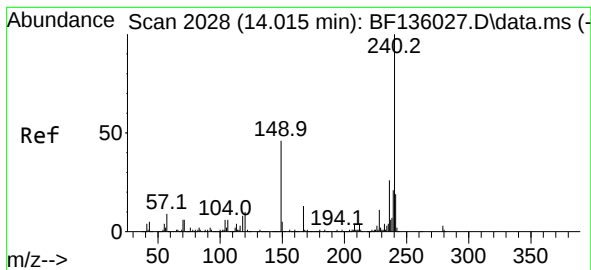


#75
 Fluoranthene
 Concen: 129.435 ng
 RT: 12.580 min Scan# 1784
 Delta R.T. 0.006 min
 Lab File: BF136051.D
 Acq: 31 Oct 2023 15:02



Tgt Ion:202 Resp: 2234490
 Ion Ratio Lower Upper
 202 100
 101 12.0 0.0 31.8
 203 18.1 0.0 37.9





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.016 min Scan# 2028

Delta R.T. 0.000 min

Lab File: BF136051.D

Acq: 31 Oct 2023 15:02

Instrument :

BNA_F

ClientSampleId :

B-1(0-5)

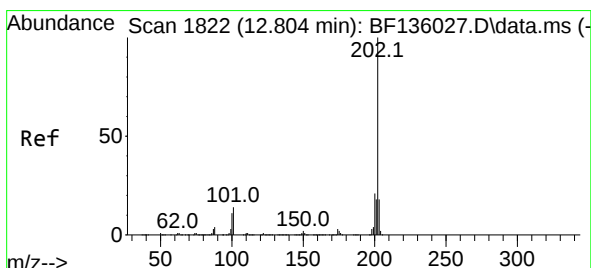
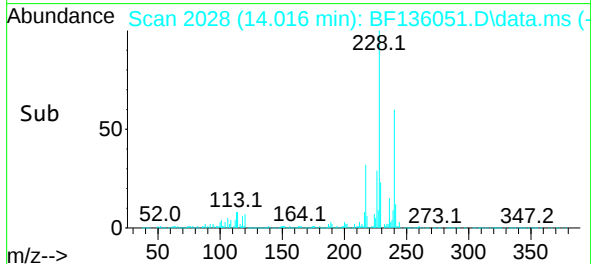
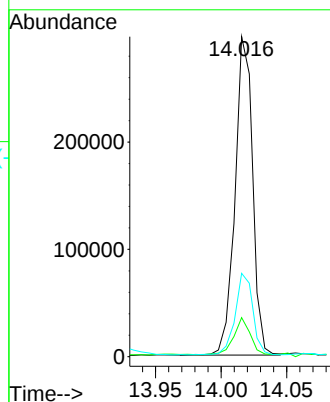
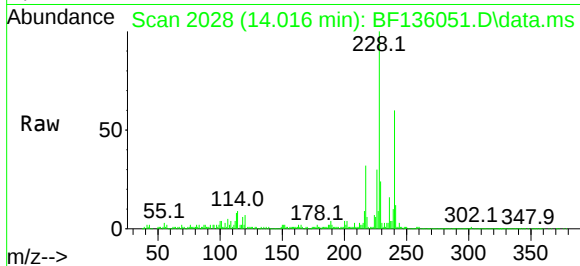
Tgt Ion:240 Resp: 277244
 Ion Ratio Lower Upper
 240 100
 120 12.2 7.6 11.4
 236 26.0 20.6 31.0

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/01/2023

Supervised By :mohammad ahmed 11/01/2023



#78

Pyrene

Concen: 84.669 ng

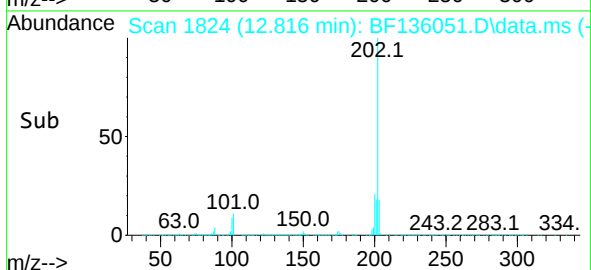
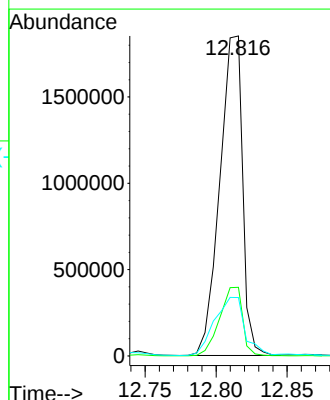
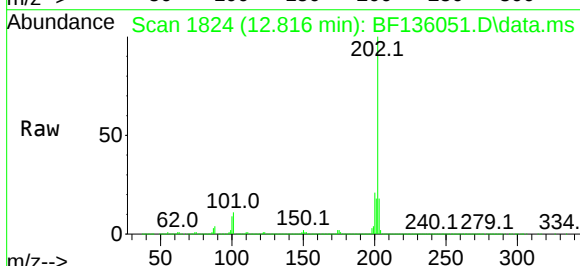
RT: 12.816 min Scan# 1824

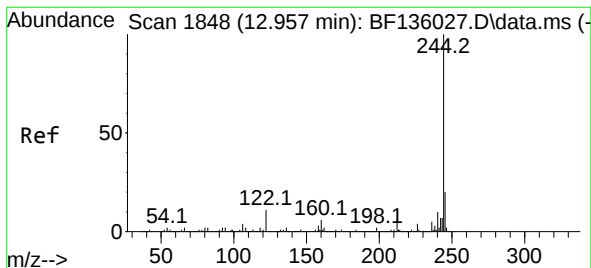
Delta R.T. 0.012 min

Lab File: BF136051.D

Acq: 31 Oct 2023 15:02

Tgt Ion:202 Resp: 2069583
 Ion Ratio Lower Upper
 202 100
 200 21.5 17.0 25.4
 203 18.3 14.4 21.6





#79

Terphenyl-d14

Concen: 11.018 ng

RT: 12.951 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF136051.D

Acq: 31 Oct 2023 15:02

Instrument :

BNA_F

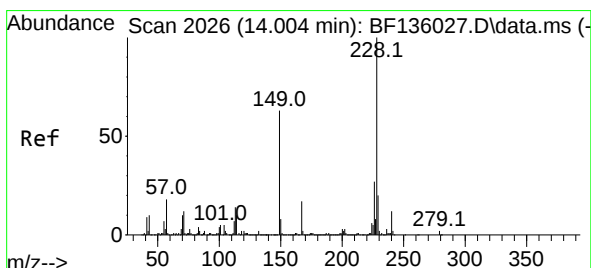
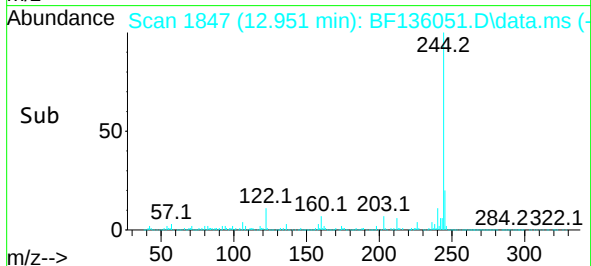
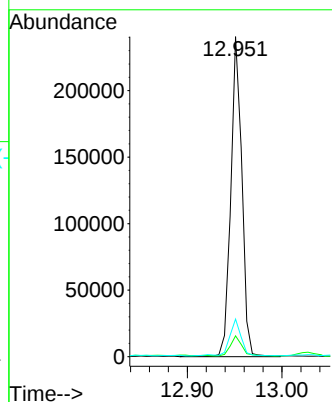
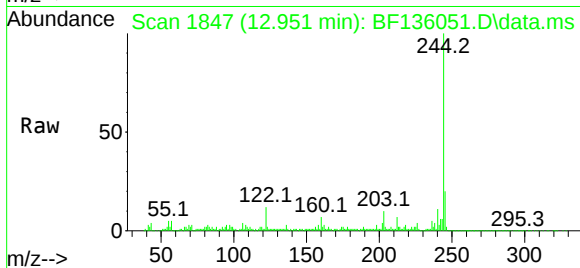
ClientSampleId :

B-1(0-5)

Tgt Ion:244 Resp: 19655
 Ion Ratio Lower Upper
 244 100
 212 6.5 5.1 7.7
 122 11.8 8.6 12.8

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 11/01/2023
 Supervised By :mohammad ahmed 11/01/2023



#81

Benzo(a)anthracene

Concen: 68.110 ng

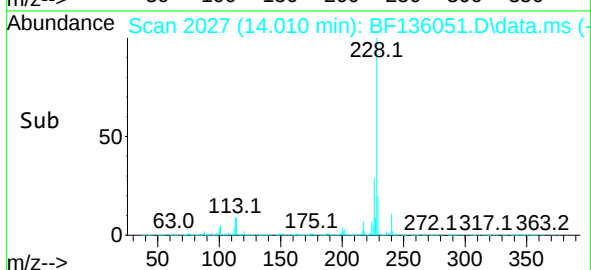
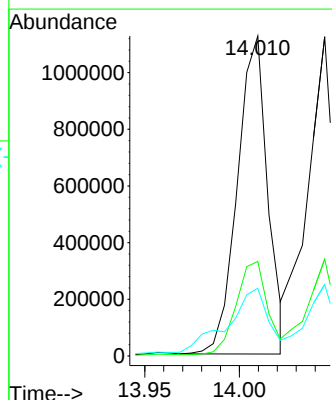
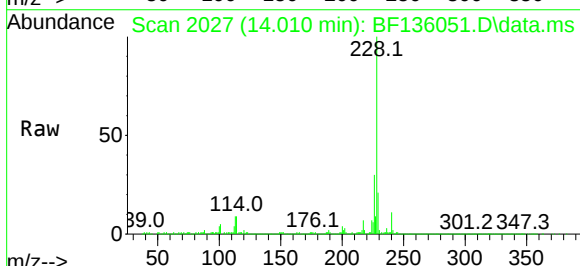
RT: 14.010 min Scan# 2027

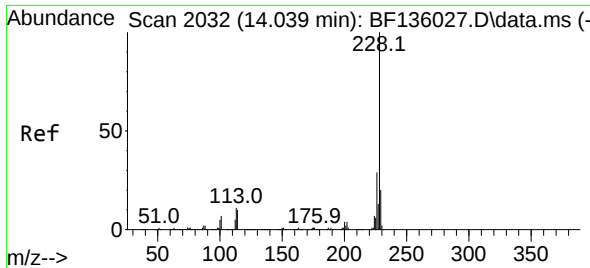
Delta R.T. 0.006 min

Lab File: BF136051.D

Acq: 31 Oct 2023 15:02

Tgt Ion:228 Resp: 1250123
 Ion Ratio Lower Upper
 228 100
 226 29.5 21.5 32.3
 229 21.2 15.8 23.6





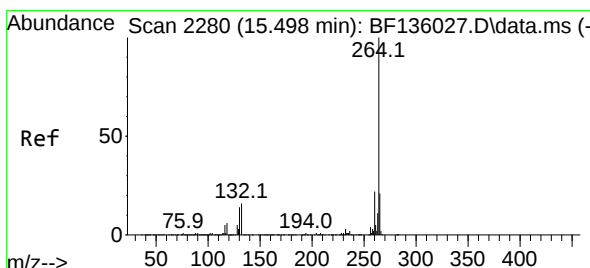
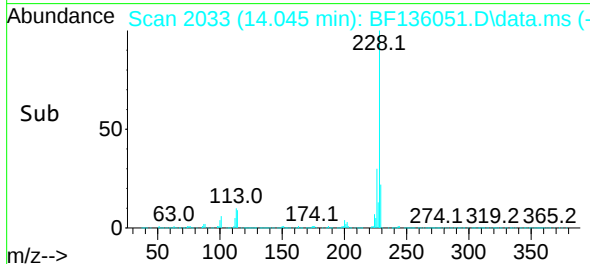
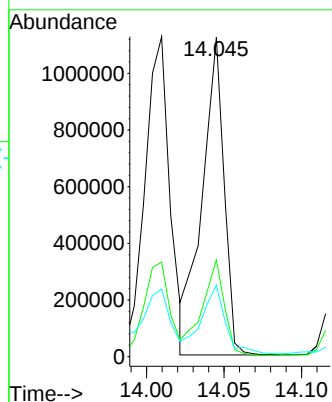
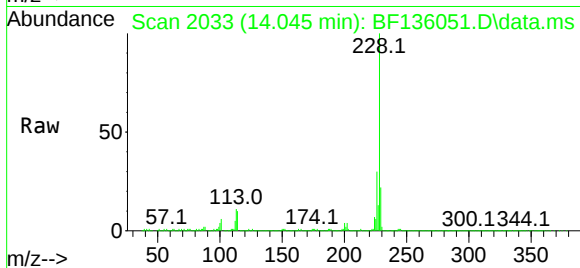
#83
Chrysene
Concen: 61.274 ng
RT: 14.045 min Scan# 2032
Delta R.T. 0.006 min
Lab File: BF136051.D
Acq: 31 Oct 2023 15:02

Instrument :
BNA_F
Client SampleId :
B-1(0-5)

Tgt Ion:228 Resp: 110757
Ion Ratio Lower Upper
228 100
226 30.3 23.5 35.3
229 22.4 16.0 24.0

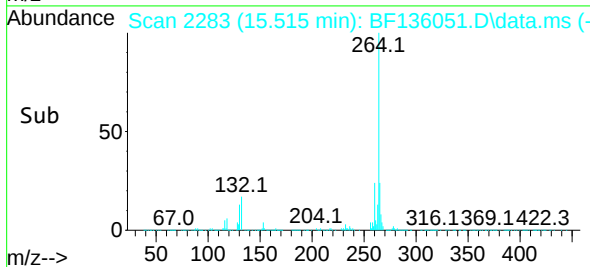
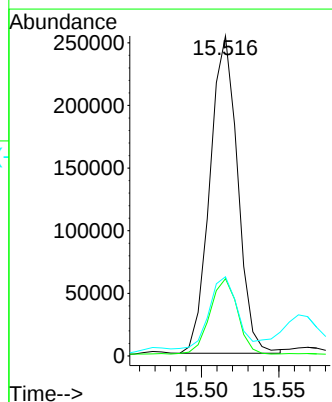
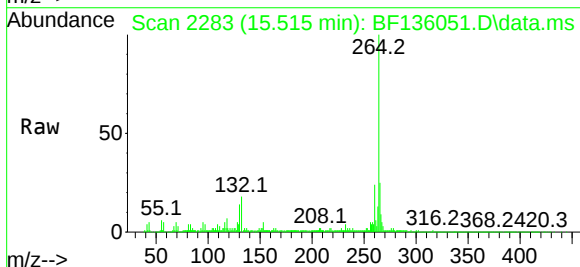
Manual Integrations
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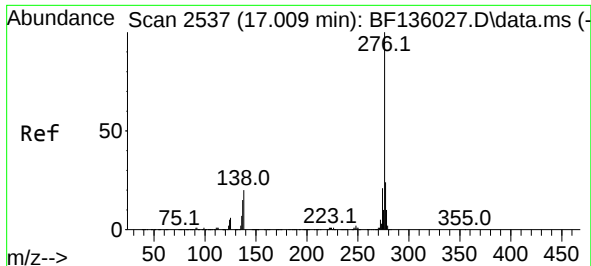
Reviewed By :Yogesh Patel 11/01/2023
Supervised By :mohammad ahmed 11/01/2023



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.515 min Scan# 2283
Delta R.T. 0.018 min
Lab File: BF136051.D
Acq: 31 Oct 2023 15:02

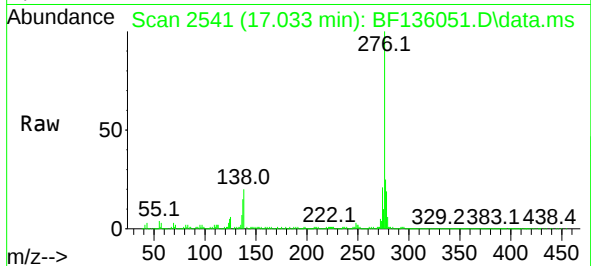
Tgt Ion:264 Resp: 315359
Ion Ratio Lower Upper
264 100
260 24.1 17.9 26.9
265 24.8 16.8 25.2





#87
Indeno(1,2,3-cd)pyrene
Concen: 30.748 ng
RT: 17.033 min Scan# 21
Delta R.T. 0.024 min
Lab File: BF136051.D
Acq: 31 Oct 2023 15:02

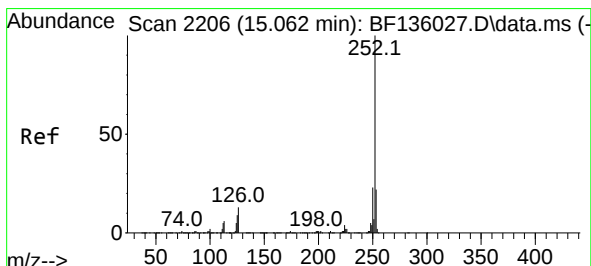
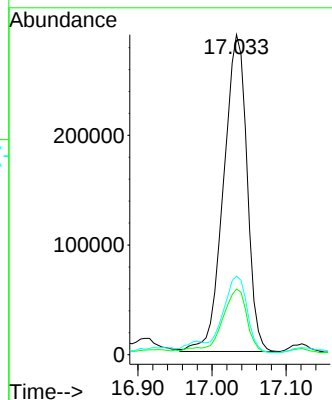
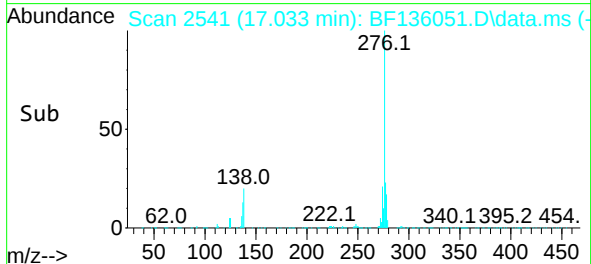
Instrument :
BNA_F
ClientSampleId :
B-1(0-5)



Tgt Ion:276 Resp: 633738
Ion Ratio Lower Upper
276 100
138 21.3 20.4 30.6
277 24.3 20.2 30.2

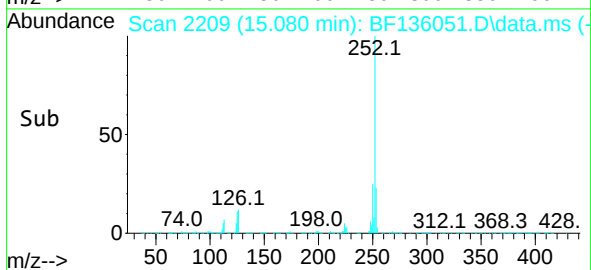
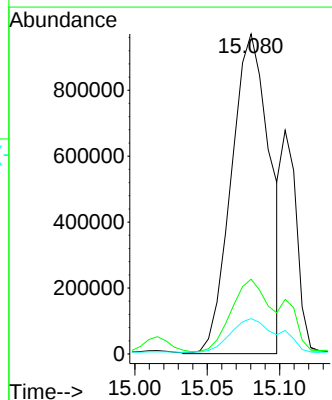
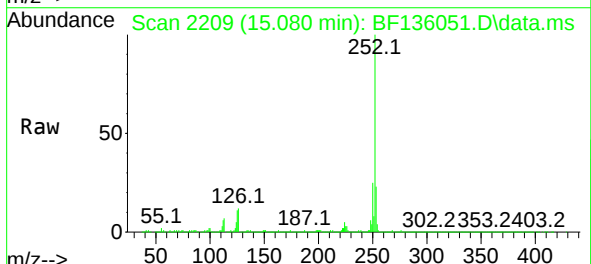
Manual Integrations
APPROVED

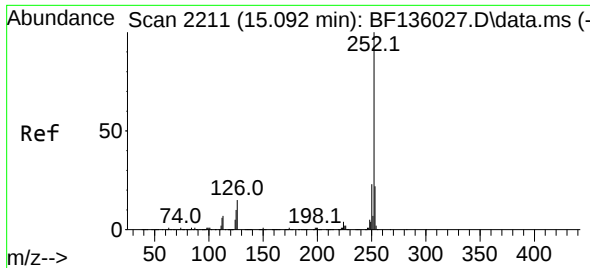
Reviewed By :Yogesh Patel 11/01/2023
Supervised By :mohammad ahmed 11/01/2023



#88
Benzo(b)fluoranthene
Concen: 95.402 ng m
RT: 15.080 min Scan# 2209
Delta R.T. 0.018 min
Lab File: BF136051.D
Acq: 31 Oct 2023 15:02

Tgt Ion:252 Resp: 1780230
Ion Ratio Lower Upper
252 100
253 23.3 17.7 26.5
125 11.0 7.5 11.3





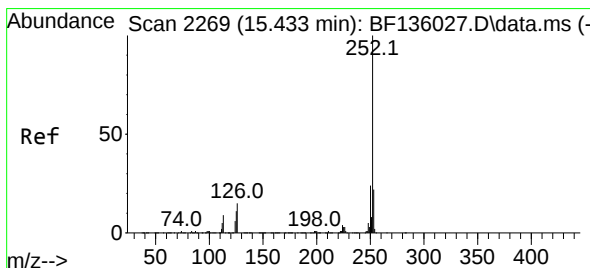
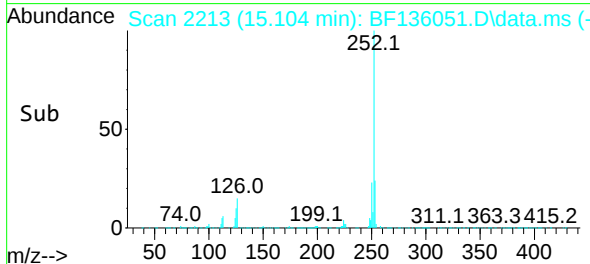
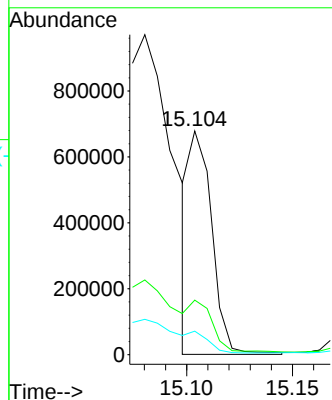
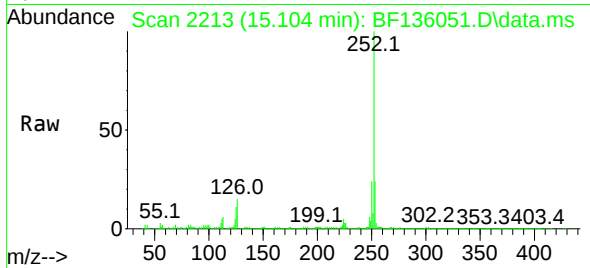
#89
Benzo(k)fluoranthene
Concen: 27.192 ng m
RT: 15.104 min Scan# 21
Delta R.T. 0.012 min
Lab File: BF136051.D
Acq: 31 Oct 2023 15:02

Instrument :
BNA_F
ClientSampleId :
B-1(0-5)

Tgt Ion:252 Resp: 502049
Ion Ratio Lower Upper
252 100
253 24.4 17.4 26.0
125 10.5 8.0 12.0

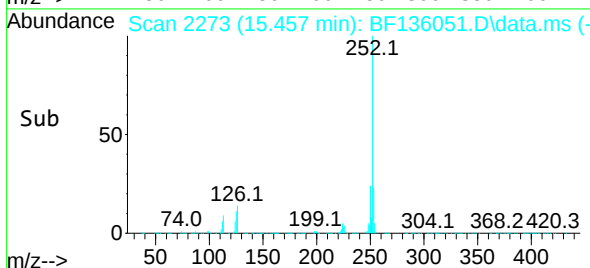
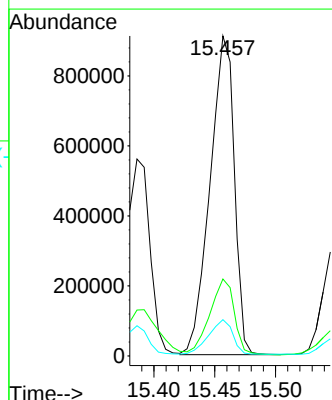
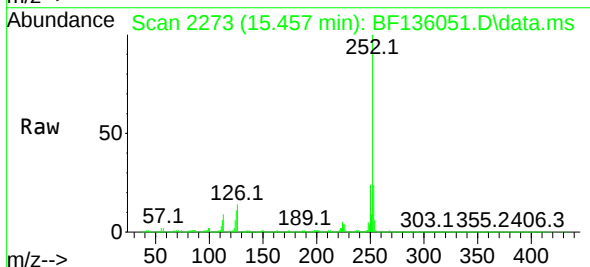
Manual Integrations
APPROVED

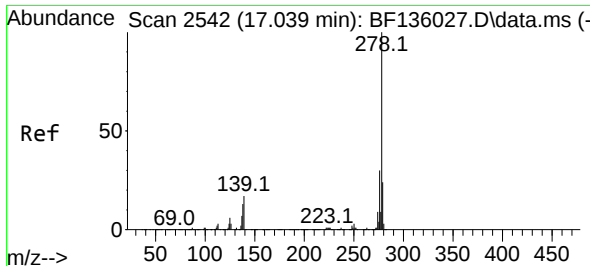
Reviewed By :Yogesh Patel 11/01/2023
Supervised By :mohammad ahmed 11/01/2023



#90
Benzo(a)pyrene
Concen: 73.010 ng
RT: 15.457 min Scan# 2273
Delta R.T. 0.024 min
Lab File: BF136051.D
Acq: 31 Oct 2023 15:02

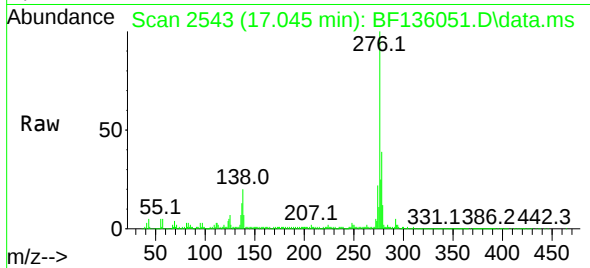
Tgt Ion:252 Resp: 1265879
Ion Ratio Lower Upper
252 100
253 24.0 17.3 25.9
125 11.4 9.0 13.6





#91
Dibenzo(a,h)anthracene
Concen: 9.492 ng
RT: 17.045 min Scan# 21
Delta R.T. 0.006 min
Lab File: BF136051.D
Acq: 31 Oct 2023 15:02

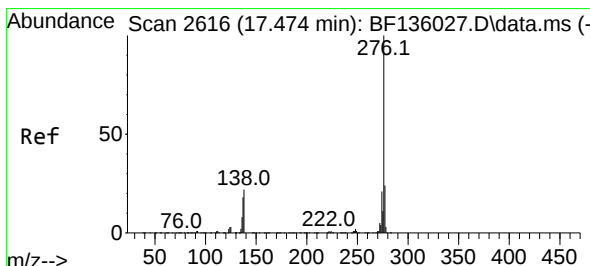
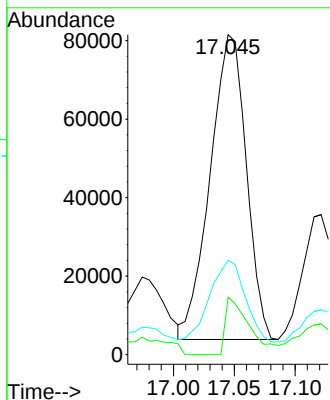
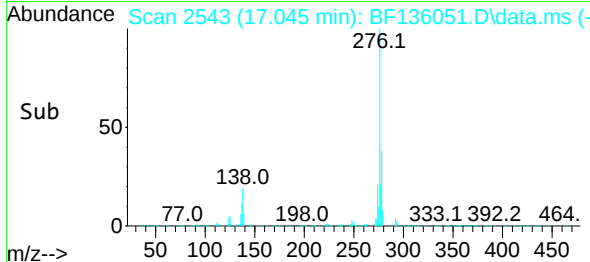
Instrument :
BNA_F
ClientSampleId :
B-1(0-5)



Tgt Ion:278 Resp: 16025
Ion Ratio Lower Upper
278 100
139 18.0 13.7 20.5
279 29.5 19.0 28.6

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/01/2023
Supervised By :mohammad ahmed 11/01/2023



#92
Benzo(g,h,i)perylene
Concen: 29.639 ng
RT: 17.498 min Scan# 2620
Delta R.T. 0.024 min
Lab File: BF136051.D
Acq: 31 Oct 2023 15:02

Tgt Ion:276 Resp: 547057
Ion Ratio Lower Upper
276 100
277 23.4 19.0 28.4
138 21.1 17.4 26.2

