

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110123\
 Data File : BF136079.D
 Acq On : 01 Nov 2023 16:27
 Operator : CG\JU
 Sample : 04805-05DL 10X
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 M-2(0-5)DL

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 11/02/2023
 Supervised By :mohammad ahmed 11/02/2023

Quant Time: Nov 01 22:40:55 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	132287	20.000	ng	0.00
21) Naphthalene-d8	8.104	136	510752	20.000	ng	0.00
39) Acenaphthene-d10	9.863	164	250376	20.000	ng	0.00
64) Phenanthrene-d10	11.351	188	384376	20.000	ng	0.00
76) Chrysene-d12	14.010	240	266321	20.000	ng	# 0.00
86) Perylene-d12	15.504	264	281970	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.440	112	73466	8.727	ng	-0.01
7) Phenol-d6	6.445	99	92515	8.820	ng	-0.01
23) Nitrobenzene-d5	7.375	82	49115	5.797	ng	-0.02
42) 2,4,6-Tribromophenol	10.651	330	18979	7.102	ng	0.00
45) 2-Fluorobiphenyl	9.181	172	105290	6.704	ng	0.00
79) Terphenyl-d14	12.951	244	84584	4.936	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.122	128	176111	7.150	ng	100
37) 2-Methylnaphthalene	8.816	142	44500	2.695	ng	99
38) 1-Methylnaphthalene	8.916	142	130888	8.517	ng	97
46) 1,1'-Biphenyl	9.281	154	53193	2.787	ng	99
49) Acenaphthylene	9.722	152	143996	6.560	ng	99
52) Acenaphthene	9.892	154	61585	4.413	ng	98
55) Dibenzofuran	10.063	168	58806	2.890	ng	# 90
58) Fluorene	10.410	166	115778	7.600	ng	99
71) Phenanthrene	11.380	178	563601	29.121	ng	99
72) Anthracene	11.428	178	197608	9.964	ng	99
75) Fluoranthene	12.574	202	595727	29.963	ng	99
78) Pyrene	12.804	202	783306	33.360	ng	100
81) Benzo(a)anthracene	14.004	228	345169m	19.577	ng	
83) Chrysene	14.039	228	333232	19.191	ng	97
87) Indeno(1,2,3-cd)pyrene	17.009	276	119024	6.459	ng	96
88) Benzo(b)fluoranthene	15.063	252	362262m	21.712	ng	
89) Benzo(k)fluoranthene	15.092	252	88165m	5.341	ng	
90) Benzo(a)pyrene	15.439	252	308170	19.879	ng	99
91) Dibenzo(a,h)anthracene	17.021	278	36929m	2.446	ng	
92) Benzo(g,h,i)perylene	17.474	276	118039	9.349	ng	100

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

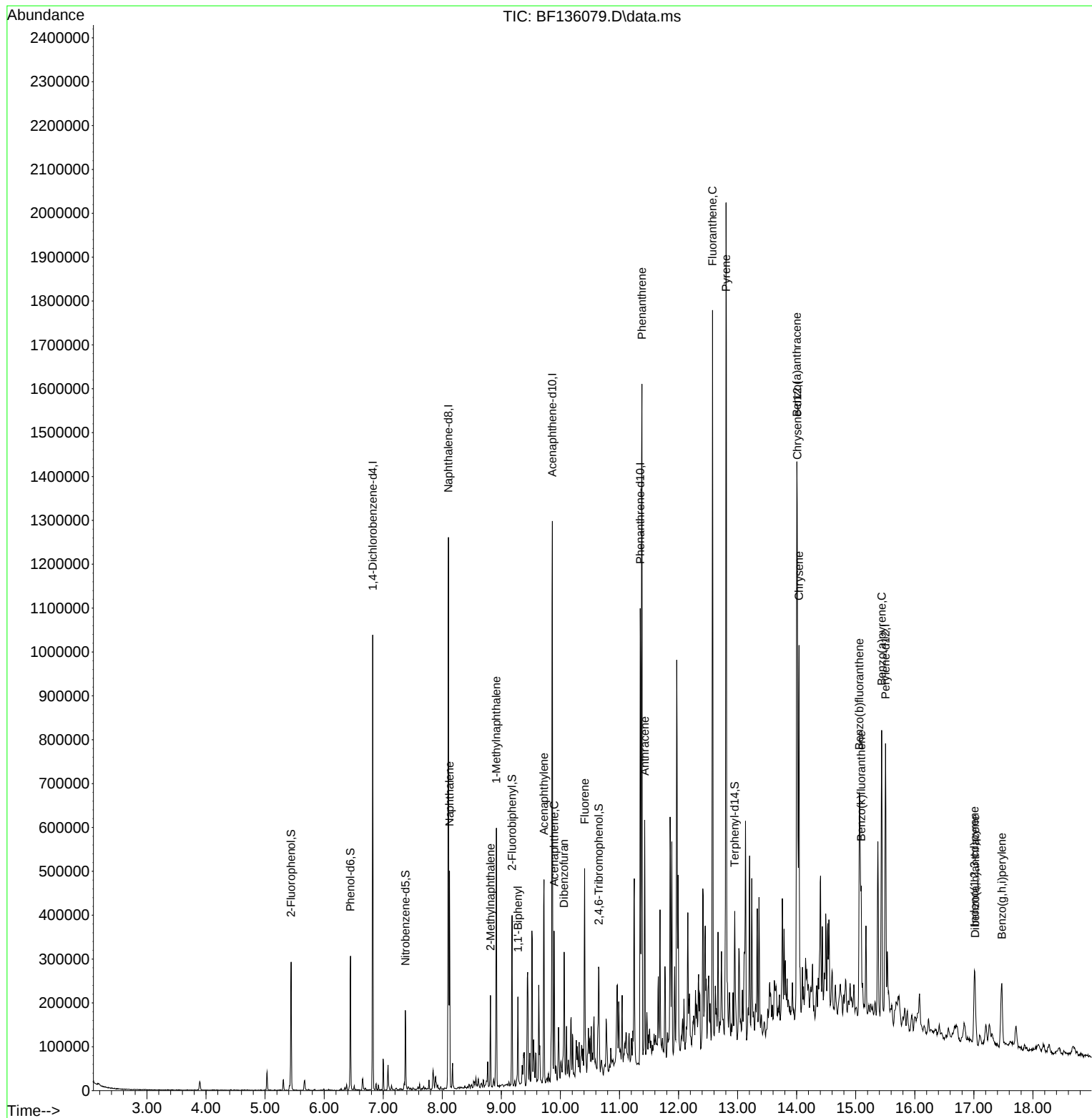
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110123\
Data File : BF136079.D
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Misc :
ALS Vial : 13 Sample Multiplier: 1

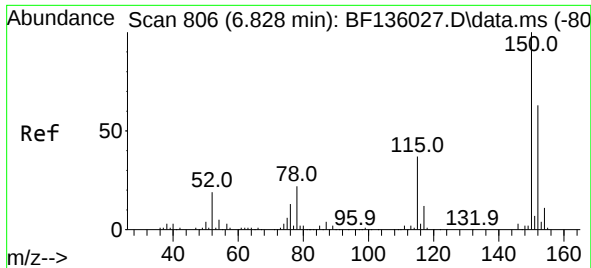
Instrument :
BNA_F
ClientSampleId :
M-2(0-5)DL

Quant Time: Nov 01 22:40:55 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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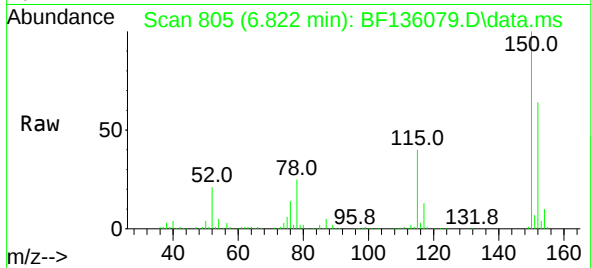
Reviewed By :Yogesh Patel 11/02/2023
Supervised By :mohammad ahmed 11/02/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.822 min Scan# 806
Delta R.T. -0.006 min
Lab File: BF136079.D
Acq: 01 Nov 2023 16:27

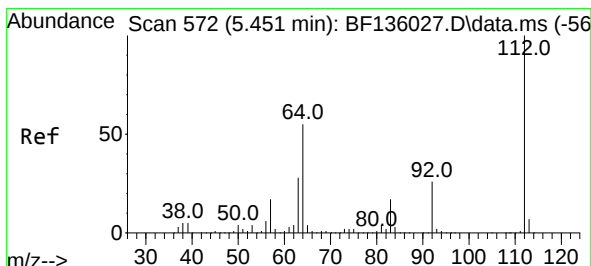
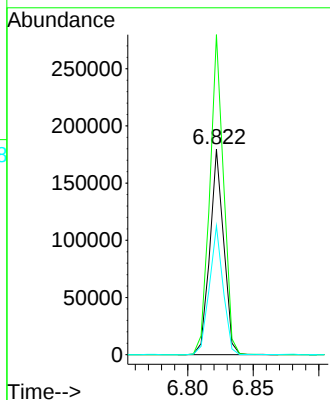
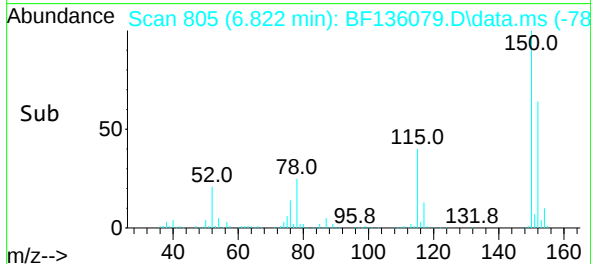
Instrument :
BNA_F
ClientSampleId :
M-2(0-5)DL



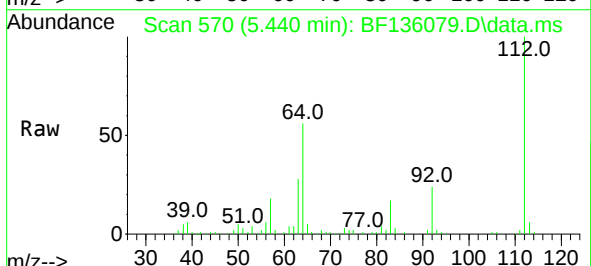
Tgt Ion:152 Resp: 13228
Ion Ratio Lower Upper
152 100
150 155.8 126.4 189.6
115 62.7 47.0 70.4

Manual Integrations
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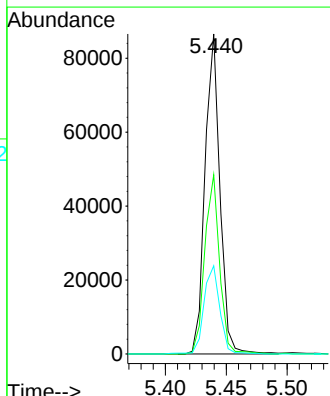
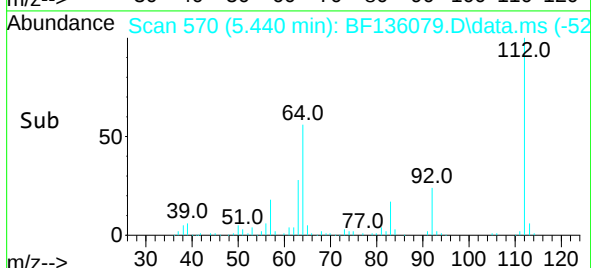
Reviewed By :Yogesh Patel 11/02/2023
Supervised By :mohammad ahmed 11/02/2023

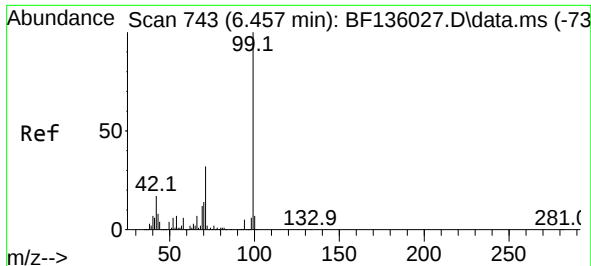


#5
2-Fluorophenol
Concen: 8.727 ng
RT: 5.440 min Scan# 570
Delta R.T. -0.012 min
Lab File: BF136079.D
Acq: 01 Nov 2023 16:27



Tgt Ion:112 Resp: 73466
Ion Ratio Lower Upper
112 100
64 56.0 43.9 65.9
63 27.5 22.4 33.6





#7

Phenol-d6

Concen: 8.820 ng

RT: 6.445 min Scan# 743

Delta R.T. -0.012 min

Lab File: BF136079.D

Acq: 01 Nov 2023 16:27

Instrument :

BNA_F

ClientSampleId :

M-2(0-5)DL

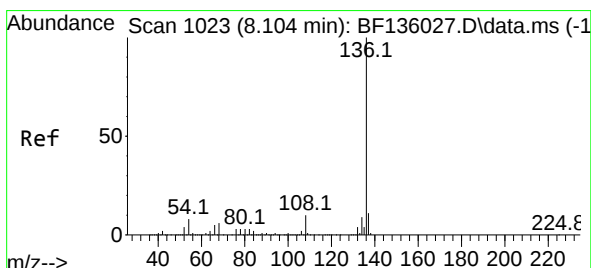
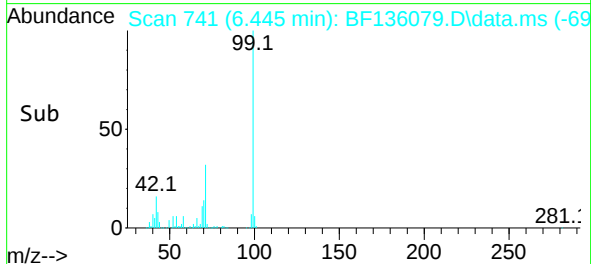
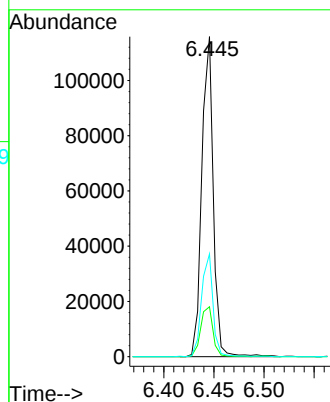
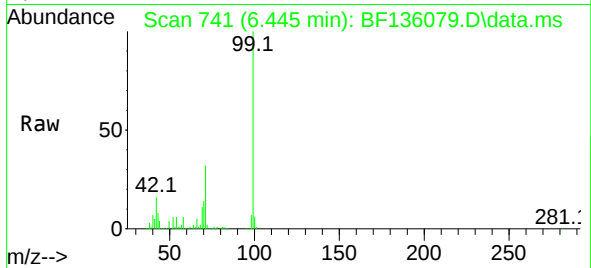
Tgt Ion:	99	Resp:	9251
Ion Ratio	Lower	Upper	
99	100		
42	15.6	13.7	20.5
71	32.1	25.9	38.9

Manual Integrations

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Supervised By :mohammad ahmed 11/02/2023



#21

Naphthalene-d8

Concen: 20.000 ng

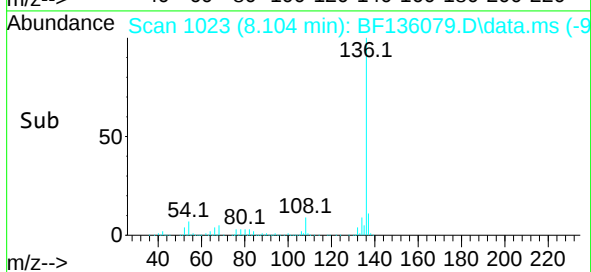
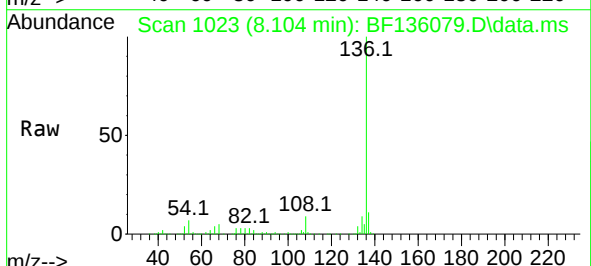
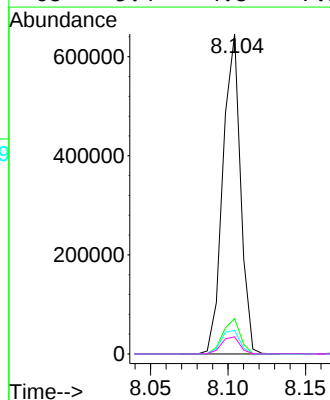
RT: 8.104 min Scan# 1023

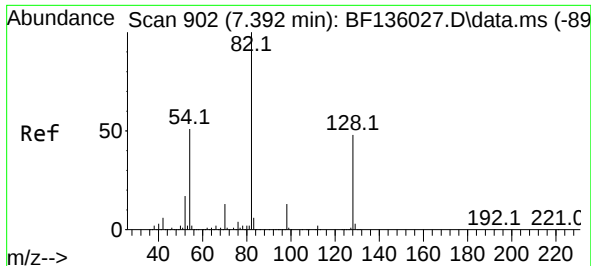
Delta R.T. 0.000 min

Lab File: BF136079.D

Acq: 01 Nov 2023 16:27

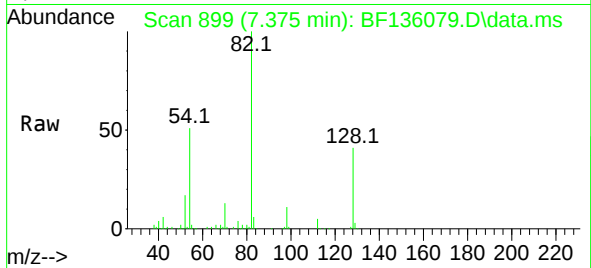
Tgt Ion:	136	Resp:	510752
Ion Ratio	Lower	Upper	
136	100		
137	11.0	8.6	13.0
54	7.4	6.6	9.8
68	5.4	4.8	7.2





#23
Nitrobenzene-d5
Concen: 5.797 ng
RT: 7.375 min Scan# 899
Delta R.T. -0.017 min
Lab File: BF136079.D
Acq: 01 Nov 2023 16:27

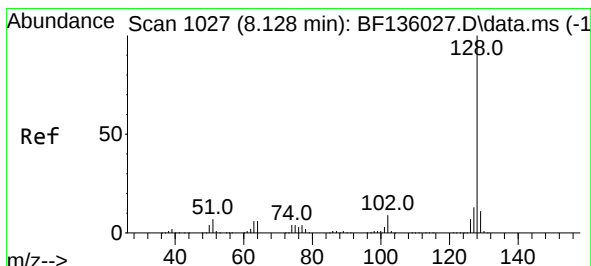
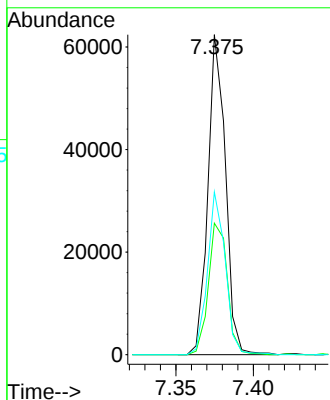
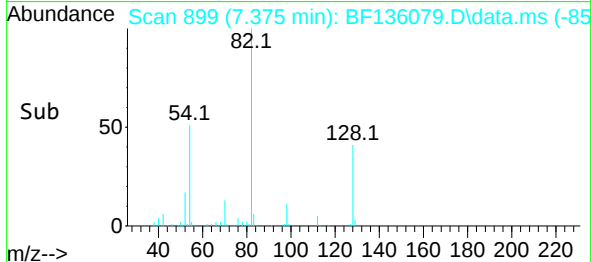
Instrument :
BNA_F
ClientSampleId :
M-2(0-5)DL



Tgt Ion: 82 Resp: 4911
Ion Ratio Lower Upper
82 100
128 41.1 38.6 57.8
54 50.9 40.8 61.2

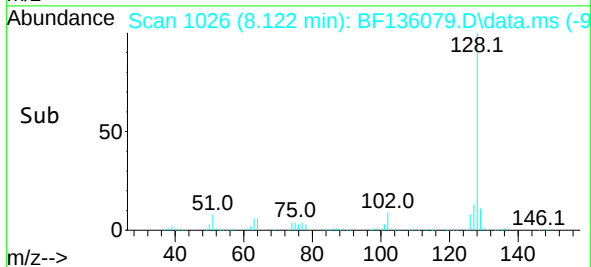
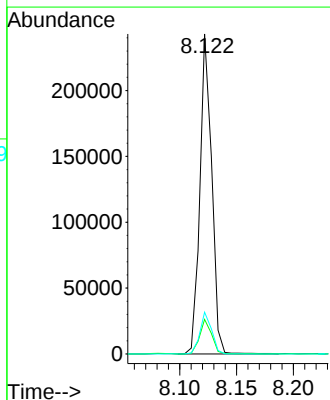
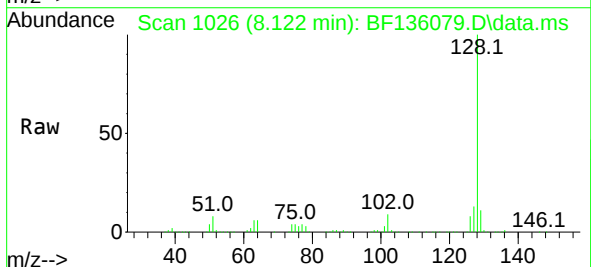
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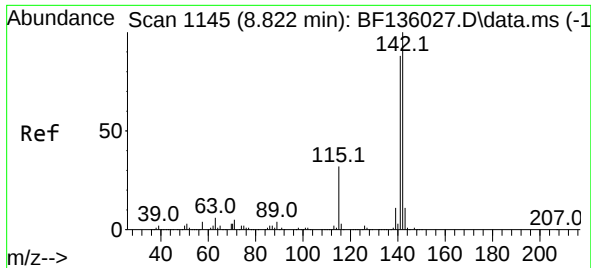
Reviewed By :Yogesh Patel 11/02/2023
Supervised By :mohammad ahmed 11/02/2023



#31
Naphthalene
Concen: 7.150 ng
RT: 8.122 min Scan# 1026
Delta R.T. -0.006 min
Lab File: BF136079.D
Acq: 01 Nov 2023 16:27

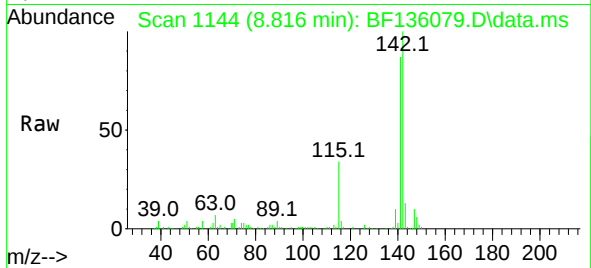
Tgt Ion:128 Resp: 176111
Ion Ratio Lower Upper
128 100
129 10.8 8.9 13.3
127 13.1 10.5 15.7





#37
2-Methylnaphthalene
Concen: 2.695 ng
RT: 8.816 min Scan# 1144
Delta R.T. -0.006 min
Lab File: BF136079.D
Acq: 01 Nov 2023 16:27

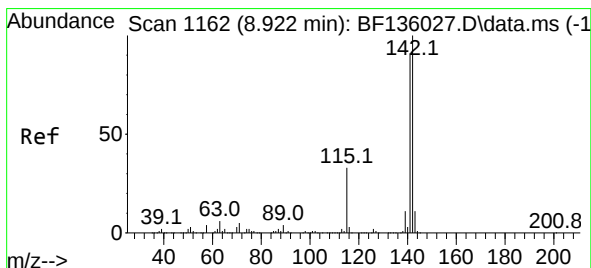
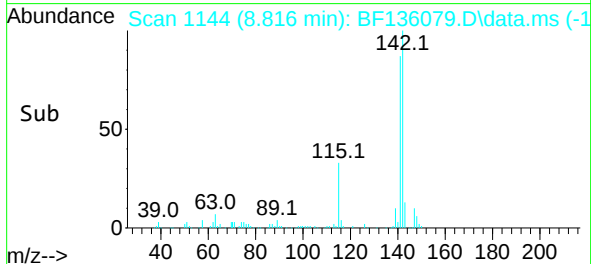
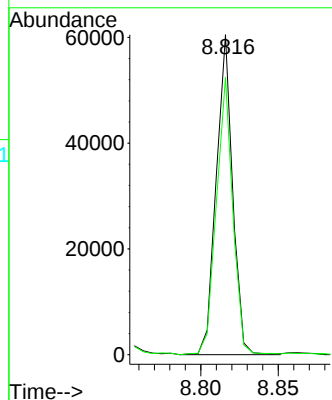
Instrument :
BNA_F
ClientSampleId :
M-2(0-5)DL



Tgt Ion:142 Resp: 44500
Ion Ratio Lower Upper
142 100
141 86.7 70.4 105.6

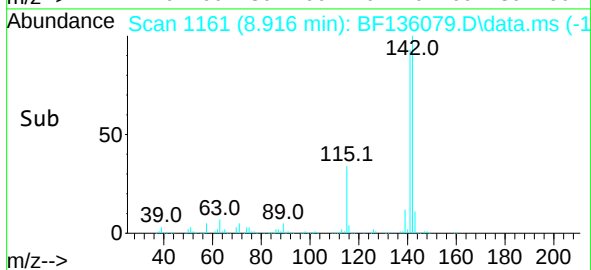
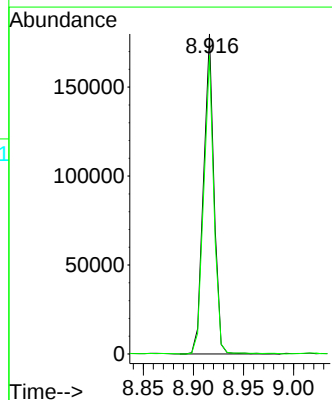
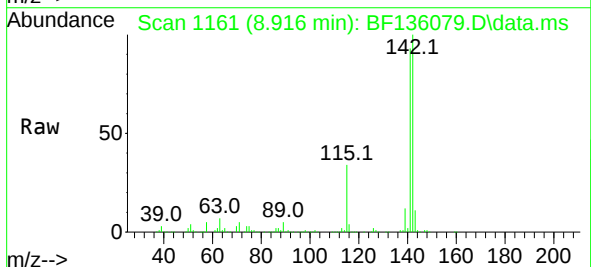
Manual Integrations
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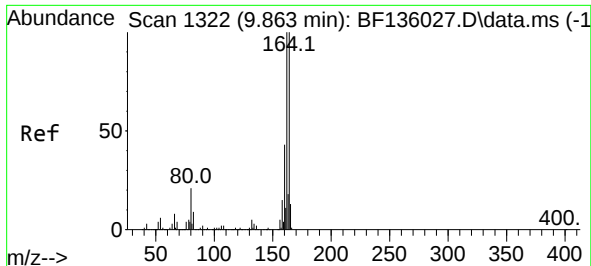
Reviewed By :Yogesh Patel 11/02/2023
Supervised By :mohammad ahmed 11/02/2023



#38
1-Methylnaphthalene
Concen: 8.517 ng
RT: 8.916 min Scan# 1161
Delta R.T. -0.006 min
Lab File: BF136079.D
Acq: 01 Nov 2023 16:27

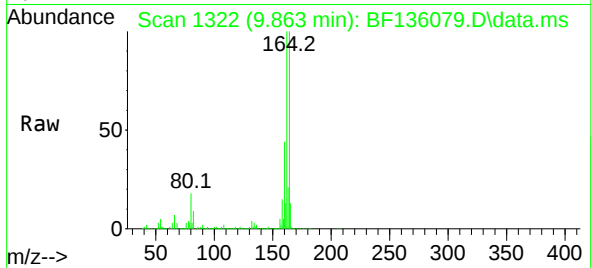
Tgt Ion:142 Resp: 130888
Ion Ratio Lower Upper
142 100
141 93.2 72.6 109.0





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.863 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF136079.D
Acq: 01 Nov 2023 16:27

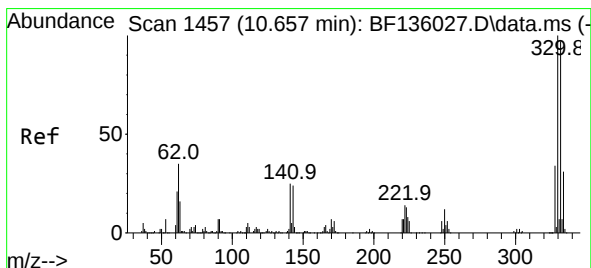
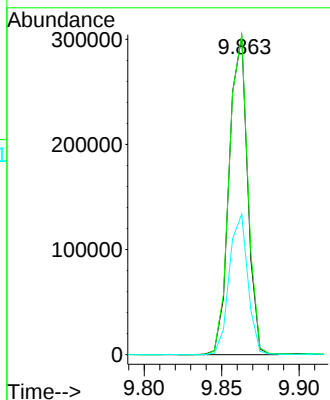
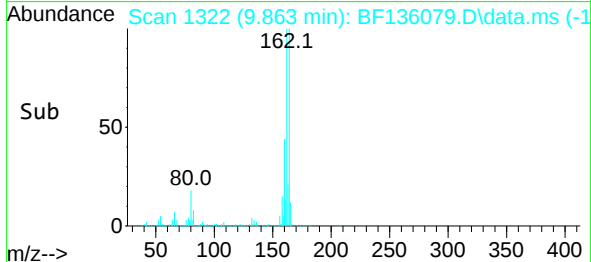
Instrument :
BNA_F
ClientSampleId :
M-2(0-5)DL



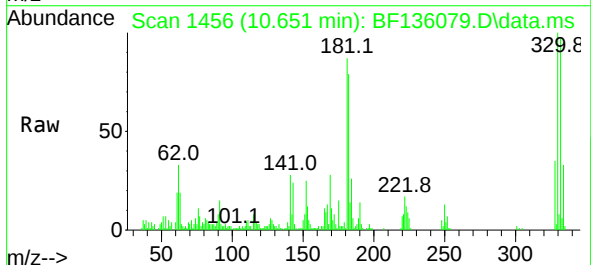
Tgt Ion:164 Resp: 250370
Ion Ratio Lower Upper
164 100
162 100.4 80.1 120.1
160 44.1 34.8 52.2

Manual Integrations
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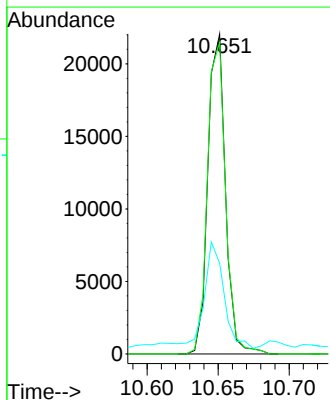
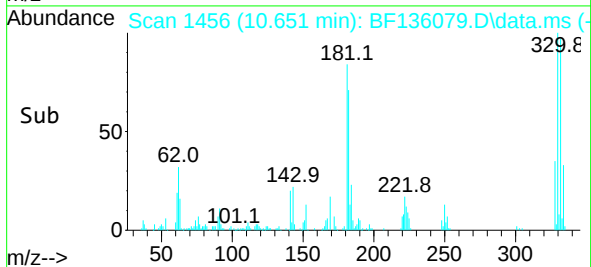
Reviewed By :Yogesh Patel 11/02/2023
Supervised By :mohammad ahmed 11/02/2023

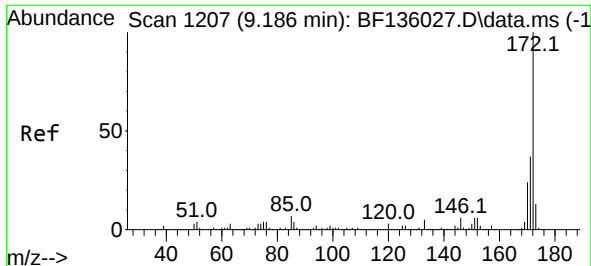


#42
2,4,6-Tribromophenol
Concen: 7.102 ng
RT: 10.651 min Scan# 1456
Delta R.T. -0.006 min
Lab File: BF136079.D
Acq: 01 Nov 2023 16:27



Tgt Ion:330 Resp: 18979
Ion Ratio Lower Upper
330 100
332 100.8 76.9 115.3
141 39.8 23.2 34.8#





#45

2-Fluorobiphenyl

Concen: 6.704 ng

RT: 9.181 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF136079.D

Acq: 01 Nov 2023 16:27

Instrument :

BNA_F

ClientSampleId :

M-2(0-5)DL

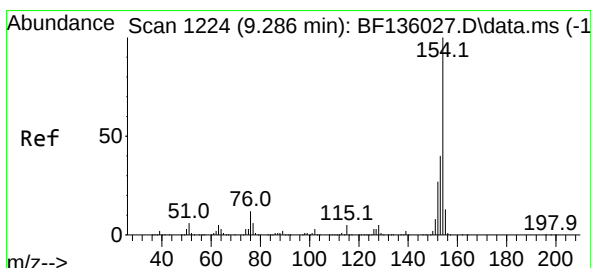
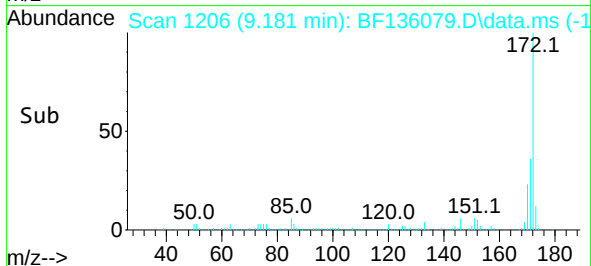
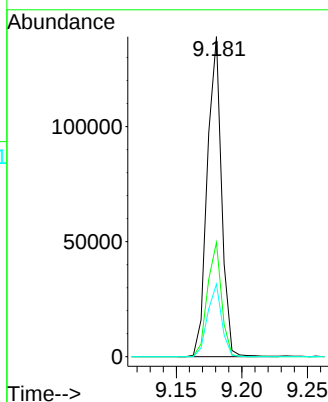
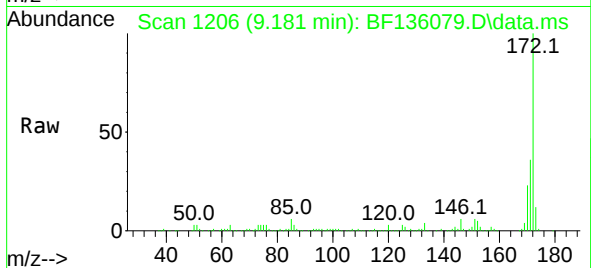
Tgt Ion:172 Resp: 105290
 Ion Ratio Lower Upper
 172 100
 171 35.7 29.4 44.0
 170 22.7 19.3 28.9

Manual Integrations

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Reviewed By :Yogesh Patel 11/02/2023

Supervised By :mohammad ahmed 11/02/2023



#46

1,1'-Biphenyl

Concen: 2.787 ng

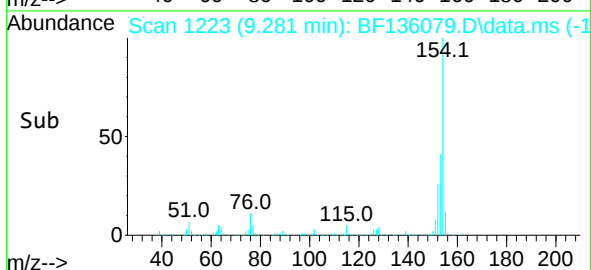
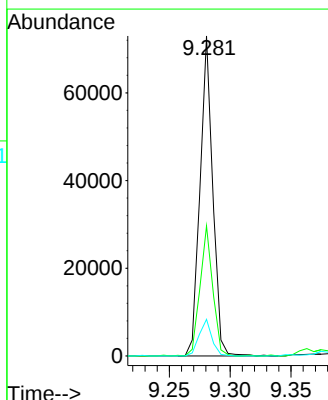
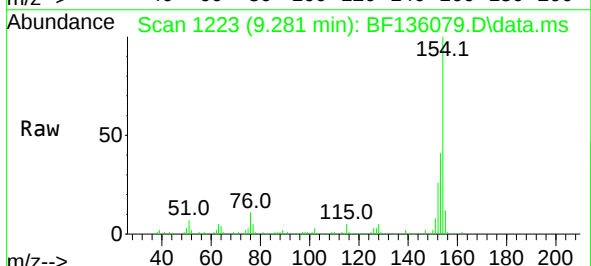
RT: 9.281 min Scan# 1223

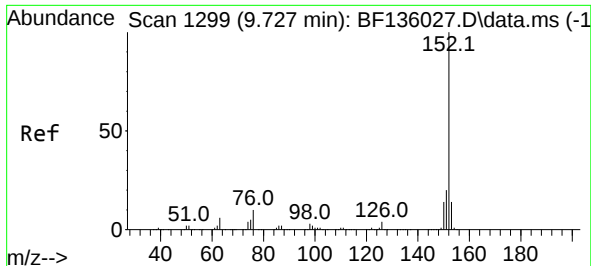
Delta R.T. -0.006 min

Lab File: BF136079.D

Acq: 01 Nov 2023 16:27

Tgt Ion:154 Resp: 53193
 Ion Ratio Lower Upper
 154 100
 153 40.7 20.1 60.1
 76 11.5 0.0 32.5





#49

Acenaphthylene

Concen: 6.560 ng

RT: 9.722 min Scan# 1299

Delta R.T. -0.006 min

Lab File: BF136079.D

Acq: 01 Nov 2023 16:27

Instrument :

BNA_F

ClientSampleId :

M-2(0-5)DL

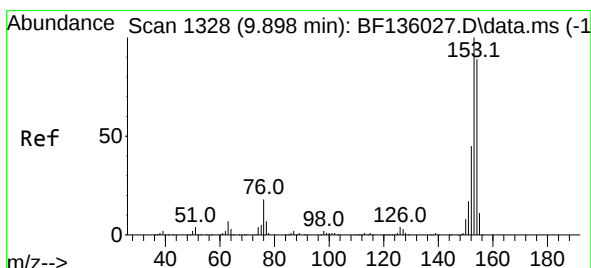
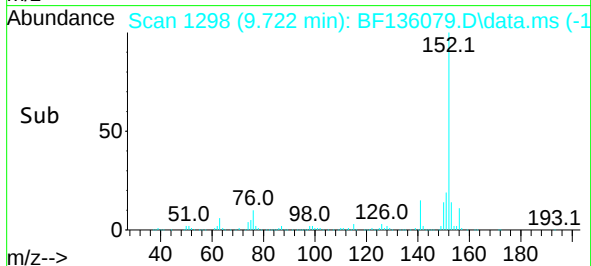
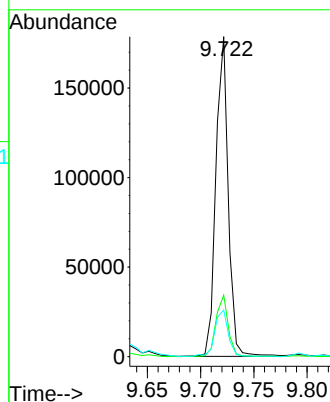
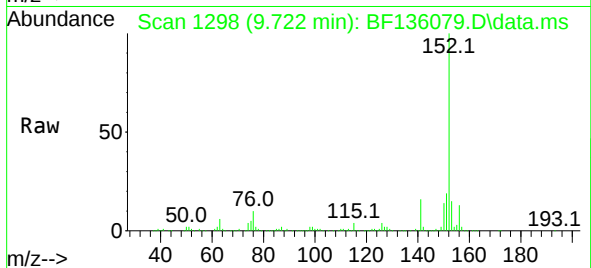
Tgt Ion:152	Resp:	143990
Ion Ratio	Lower	Upper
152	100	
151	19.2	16.1 24.1
153	14.5	11.4 17.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/02/2023

Supervised By :mohammad ahmed 11/02/2023



#52

Acenaphthene

Concen: 4.413 ng

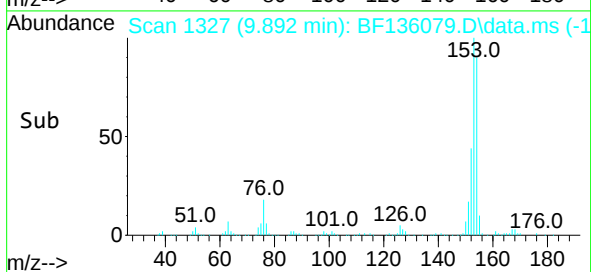
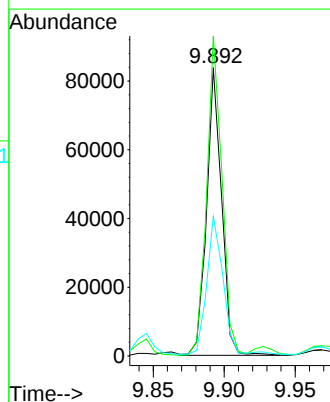
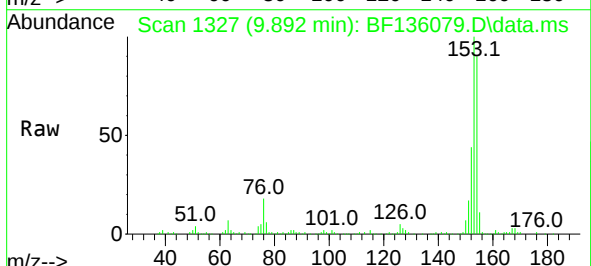
RT: 9.892 min Scan# 1327

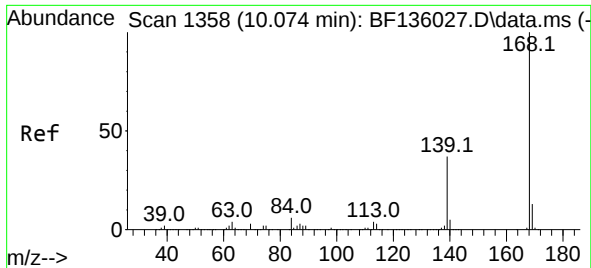
Delta R.T. -0.006 min

Lab File: BF136079.D

Acq: 01 Nov 2023 16:27

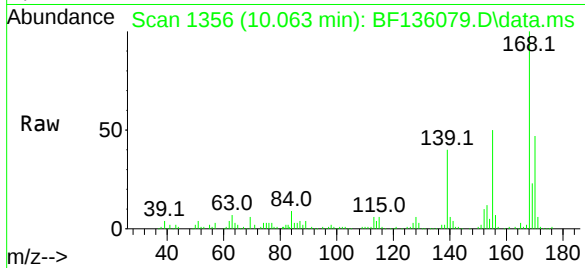
Tgt Ion:154	Resp:	61585
Ion Ratio	Lower	Upper
154	100	
153	111.0	89.9 134.9
152	48.5	40.2 60.2





#55
Dibenzenofuran
Concen: 2.890 ng
RT: 10.063 min Scan# 1356
Delta R.T. -0.012 min
Lab File: BF136079.D
Acq: 01 Nov 2023 16:27

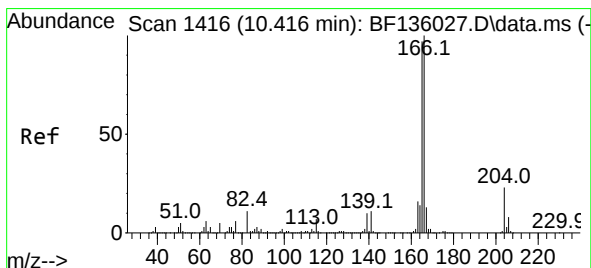
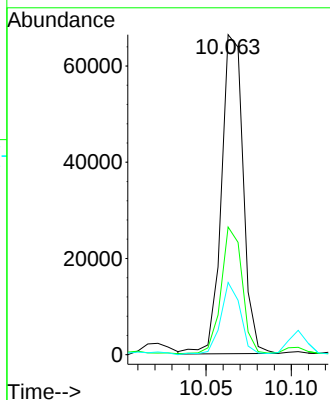
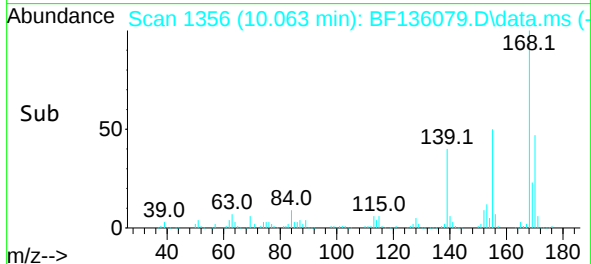
Instrument :
BNA_F
ClientSampleId :
M-2(0-5)DL



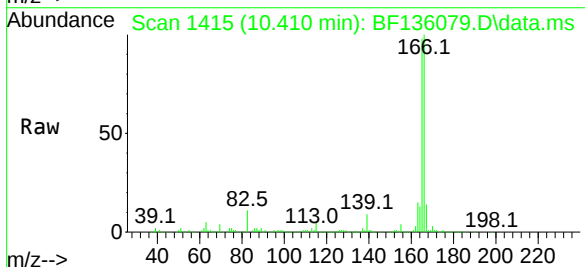
Tgt Ion:168 Resp: 58800
Ion Ratio Lower Upper
168 100
139 39.9 29.4 44.0
169 22.5 10.5 15.7

Manual Integrations
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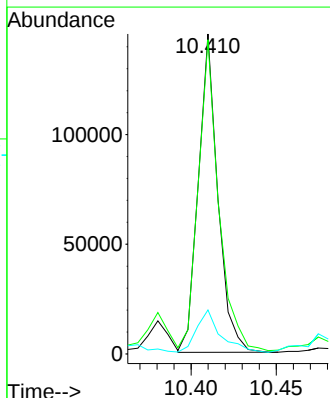
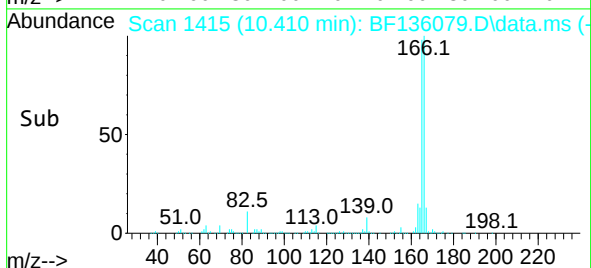
Reviewed By :Yogesh Patel 11/02/2023
Supervised By :mohammad ahmed 11/02/2023

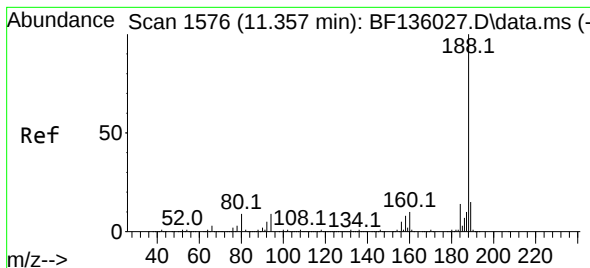


#58
Fluorene
Concen: 7.600 ng
RT: 10.410 min Scan# 1415
Delta R.T. -0.006 min
Lab File: BF136079.D
Acq: 01 Nov 2023 16:27



Tgt Ion:166 Resp: 115778
Ion Ratio Lower Upper
166 100
165 98.2 77.7 116.5
167 13.8 10.6 16.0





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.351 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF136079.D

Acq: 01 Nov 2023 16:27

Instrument :

BNA_F

ClientSampleId :

M-2(0-5)DL

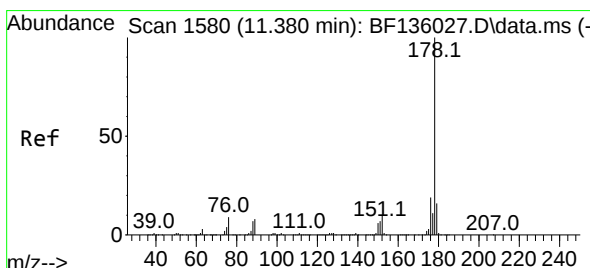
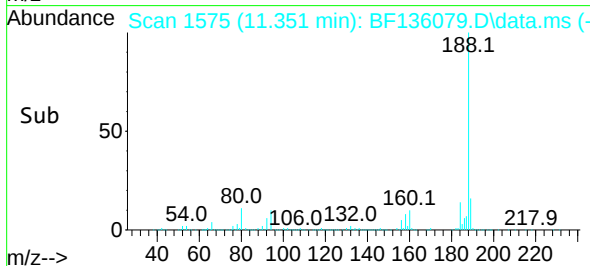
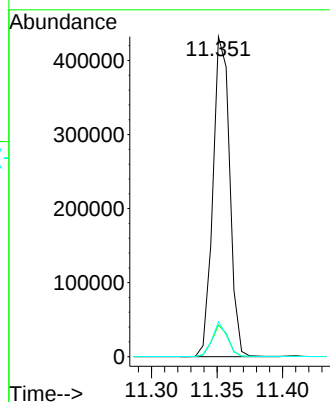
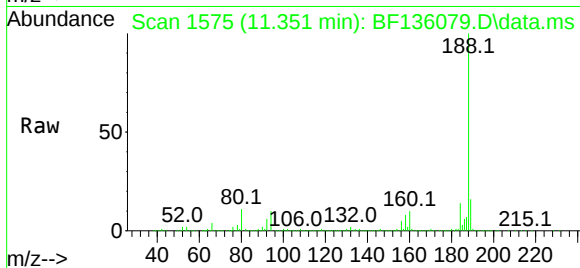
Tgt Ion:188 Resp: 384370
 Ion Ratio Lower Upper
 188 100
 94 9.9 7.2 10.8
 80 10.9 7.4 11.0

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/02/2023

Supervised By :mohammad ahmed 11/02/2023



#71

Phenanthrene

Concen: 29.121 ng

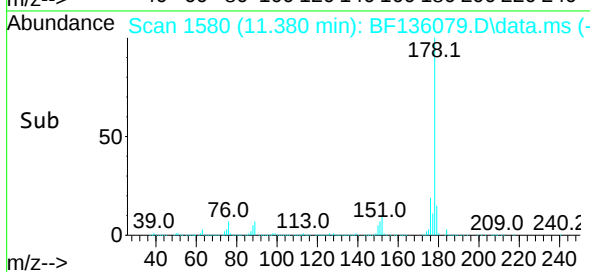
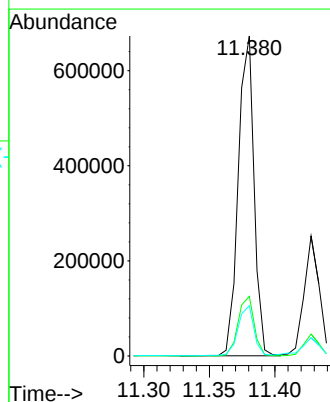
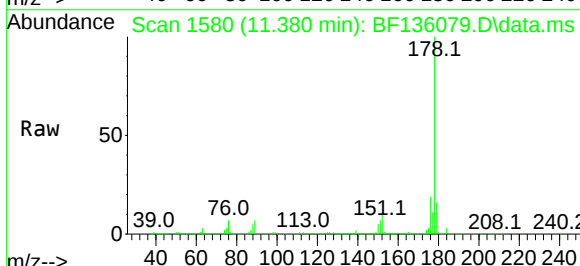
RT: 11.380 min Scan# 1580

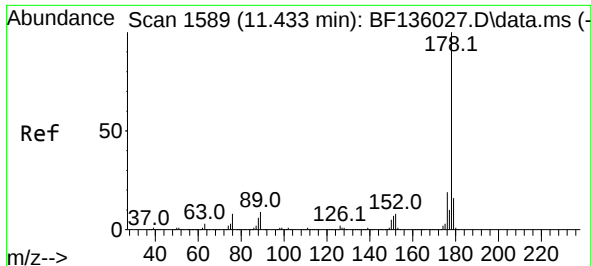
Delta R.T. 0.000 min

Lab File: BF136079.D

Acq: 01 Nov 2023 16:27

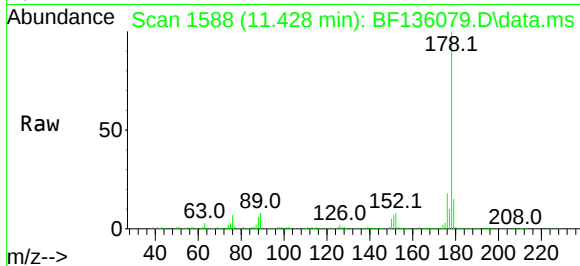
Tgt Ion:178 Resp: 563601
 Ion Ratio Lower Upper
 178 100
 176 18.7 15.5 23.3
 179 15.7 12.9 19.3





#72
 Anthracene
 Concen: 9.964 ng
 RT: 11.428 min Scan# 1589
 Delta R.T. -0.006 min
 Lab File: BF136079.D
 Acq: 01 Nov 2023 16:27

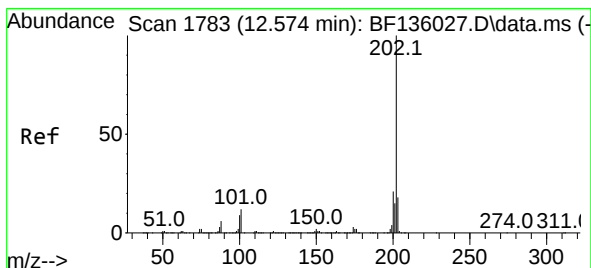
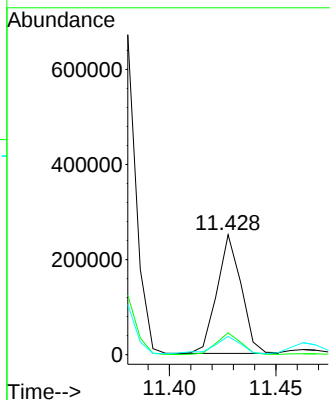
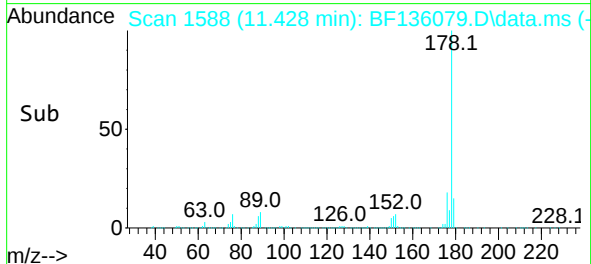
Instrument :
 BNA_F
 ClientSampleId :
 M-2(0-5)DL



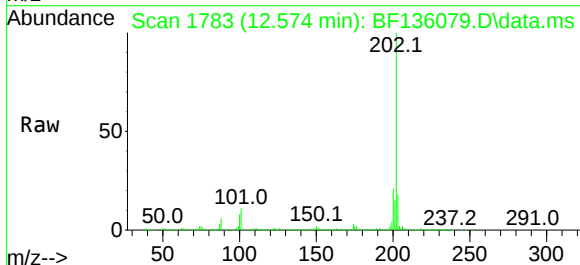
Tgt Ion:178 Resp: 197608
 Ion Ratio Lower Upper
 178 100
 176 18.2 15.0 22.4
 179 15.2 12.6 18.8

Manual Integrations
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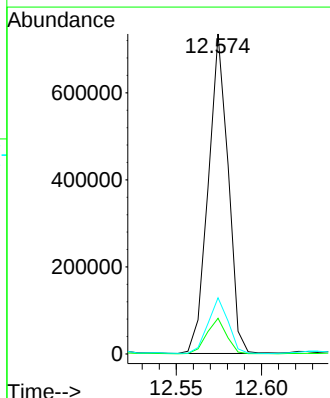
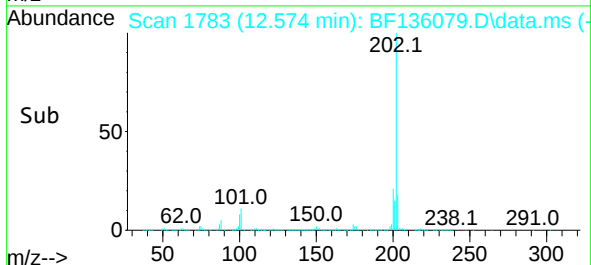
Reviewed By :Yogesh Patel 11/02/2023
 Supervised By :mohammad ahmed 11/02/2023

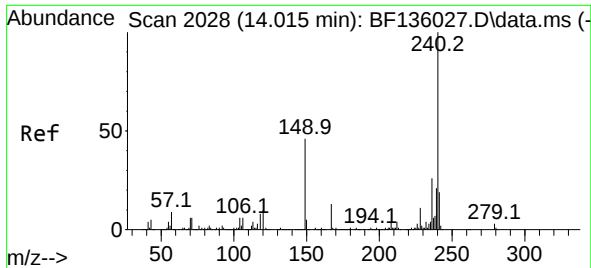


#75
 Fluoranthene
 Concen: 29.963 ng
 RT: 12.574 min Scan# 1783
 Delta R.T. 0.000 min
 Lab File: BF136079.D
 Acq: 01 Nov 2023 16:27



Tgt Ion:202 Resp: 595727
 Ion Ratio Lower Upper
 202 100
 101 11.2 0.0 31.8
 203 17.5 0.0 37.9





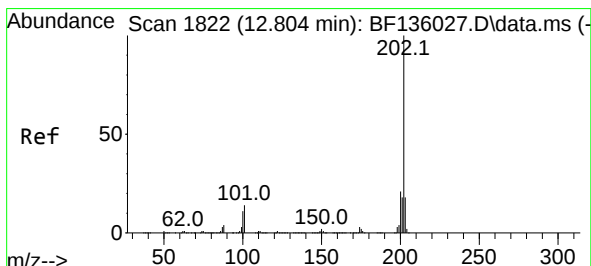
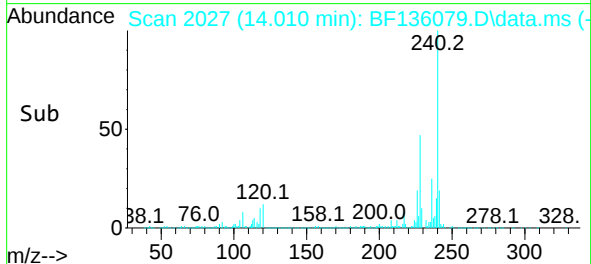
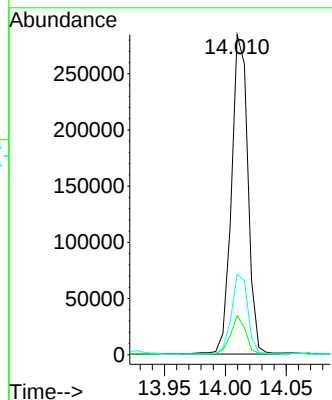
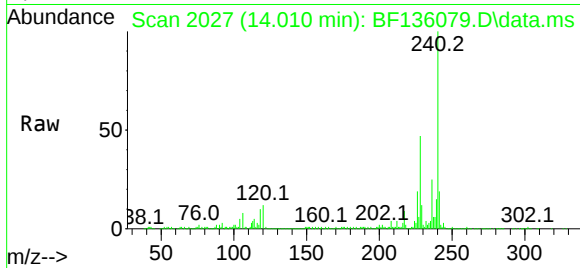
#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.010 min Scan# 2028
Delta R.T. -0.006 min
Lab File: BF136079.D
Acq: 01 Nov 2023 16:27

Instrument :
BNA_F
ClientSampleId :
M-2(0-5)DL

Tgt Ion:240 Resp: 26632
Ion Ratio Lower Upper
240 100
120 12.2 7.6 11.4
236 25.1 20.6 31.0

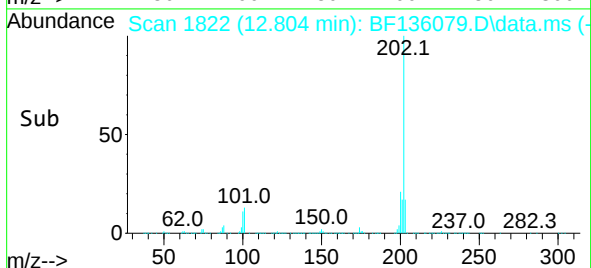
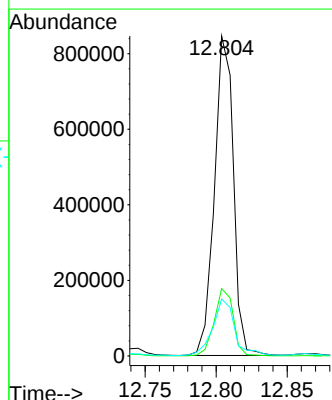
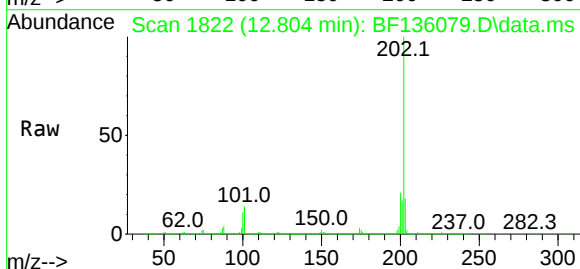
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APPROVED

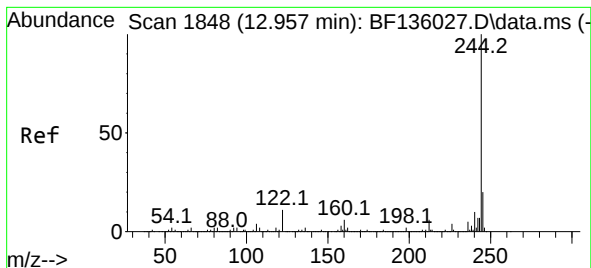
Reviewed By :Yogesh Patel 11/02/2023
Supervised By :mohammad ahmed 11/02/2023



#78
Pyrene
Concen: 33.360 ng
RT: 12.804 min Scan# 1822
Delta R.T. 0.000 min
Lab File: BF136079.D
Acq: 01 Nov 2023 16:27

Tgt Ion:202 Resp: 783306
Ion Ratio Lower Upper
202 100
200 21.1 17.0 25.4
203 17.8 14.4 21.6





#79

Terphenyl-d14

Concen: 4.936 ng

RT: 12.951 min Scan# 1847

Delta R.T. -0.006 min

Lab File: BF136079.D

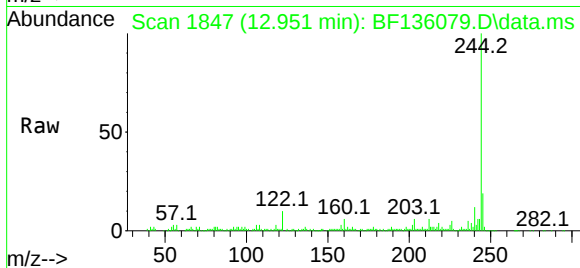
Acq: 01 Nov 2023 16:27

Instrument :

BNA_F

ClientSampleId :

M-2(0-5)DL



Tgt Ion:244 Resp: 84584

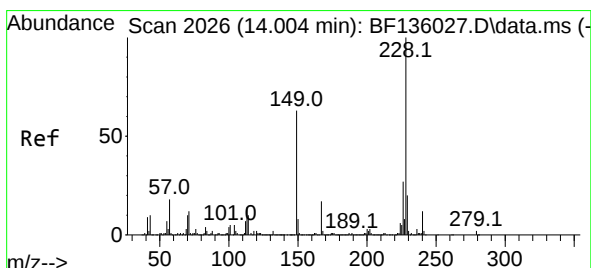
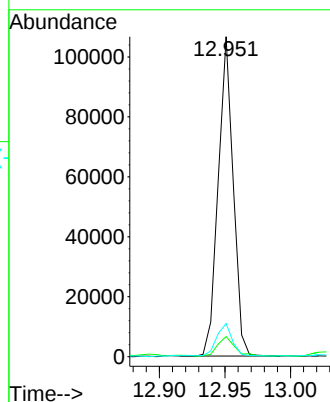
Ion	Ratio	Lower	Upper
244	100		
212	6.3	5.1	7.7
122	10.3	8.6	12.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/02/2023

Supervised By :mohammad ahmed 11/02/2023



#81

Benzo(a)anthracene

Concen: 19.577 ng m

RT: 14.004 min Scan# 2026

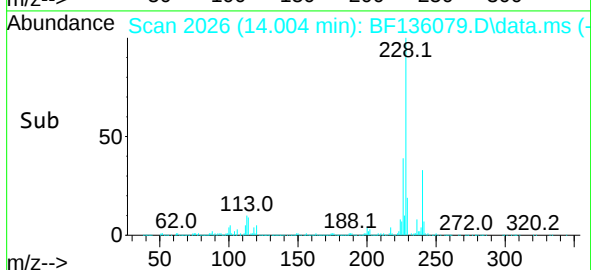
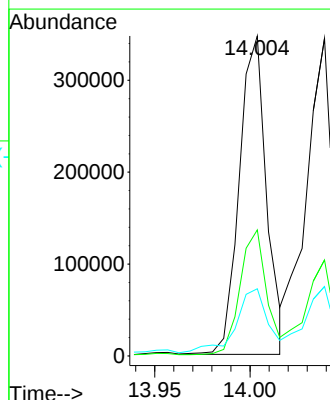
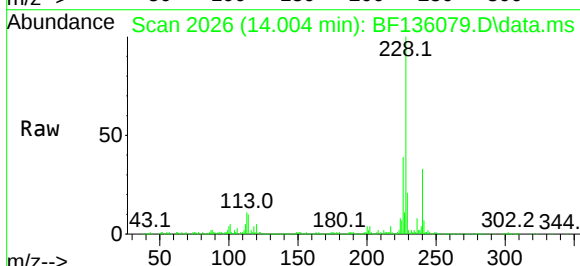
Delta R.T. 0.000 min

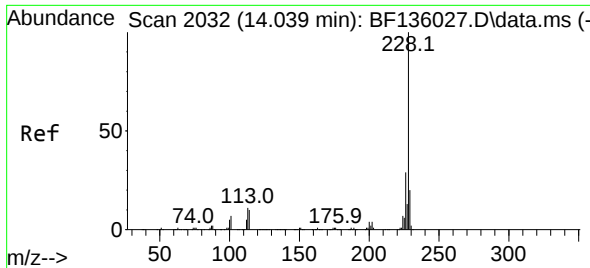
Lab File: BF136079.D

Acq: 01 Nov 2023 16:27

Tgt Ion:228 Resp: 345169

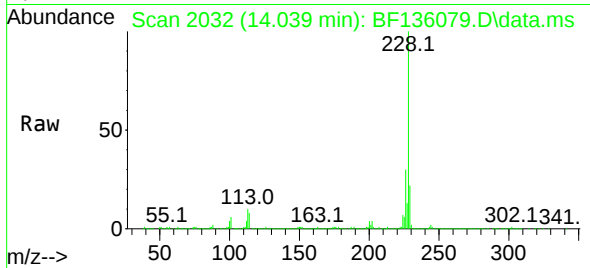
Ion	Ratio	Lower	Upper
228	100		
226	39.4	21.5	32.3
229	21.0	15.8	23.6





#83
Chrysene
Concen: 19.191 ng
RT: 14.039 min Scan# 2032
Delta R.T. 0.000 min
Lab File: BF136079.D
Acq: 01 Nov 2023 16:27

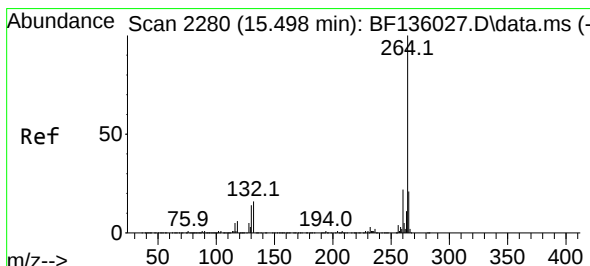
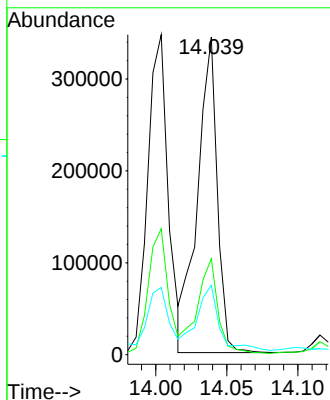
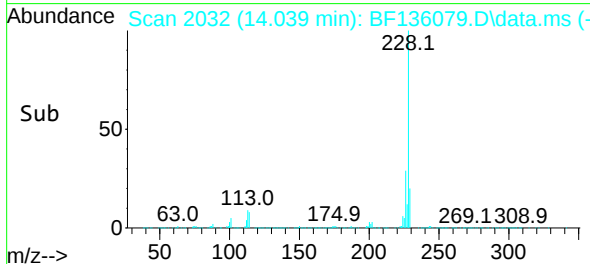
Instrument :
BNA_F
ClientSampleId :
M-2(0-5)DL



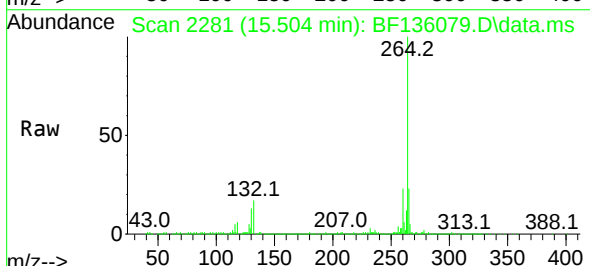
Tgt Ion:228 Resp: 33323
Ion Ratio Lower Upper
228 100
226 30.3 23.5 35.3
229 21.9 16.0 24.0

Manual Integrations
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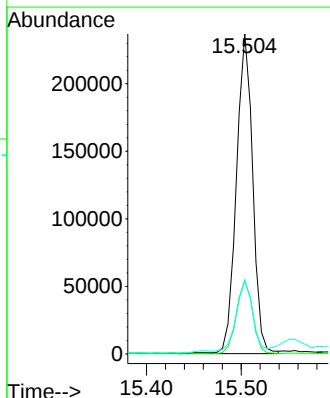
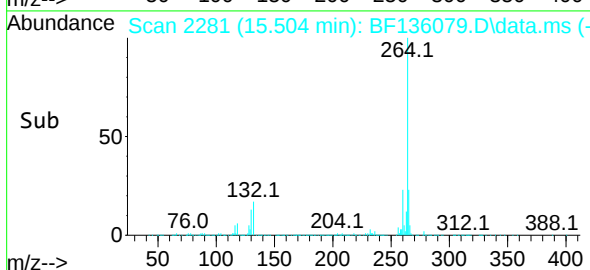
Reviewed By :Yogesh Patel 11/02/2023
Supervised By :mohammad ahmed 11/02/2023

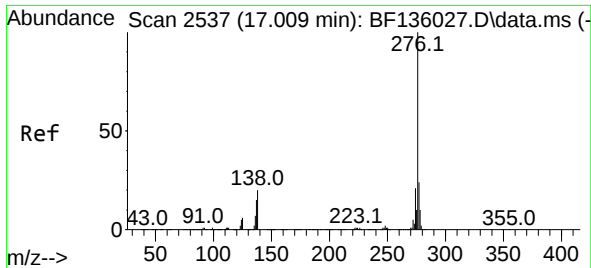


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.504 min Scan# 2281
Delta R.T. 0.006 min
Lab File: BF136079.D
Acq: 01 Nov 2023 16:27



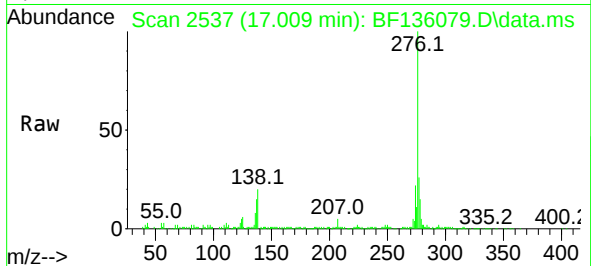
Tgt Ion:264 Resp: 281970
Ion Ratio Lower Upper
264 100
260 22.9 17.9 26.9
265 23.1 16.8 25.2





#87
Indeno(1,2,3-cd)pyrene
Concen: 6.459 ng
RT: 17.009 min Scan# 21
Delta R.T. 0.000 min
Lab File: BF136079.D
Acq: 01 Nov 2023 16:27

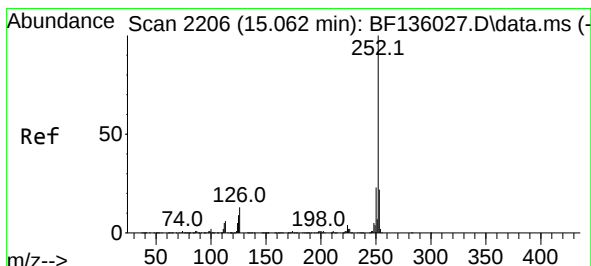
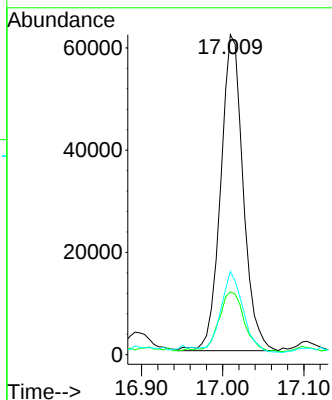
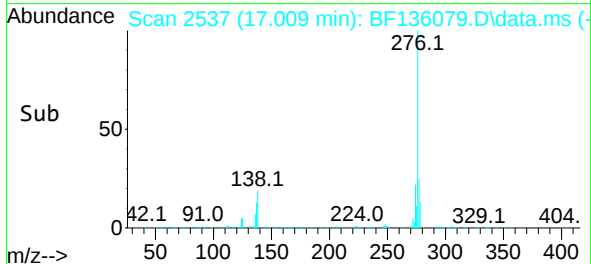
Instrument :
BNA_F
ClientSampleId :
M-2(0-5)DL



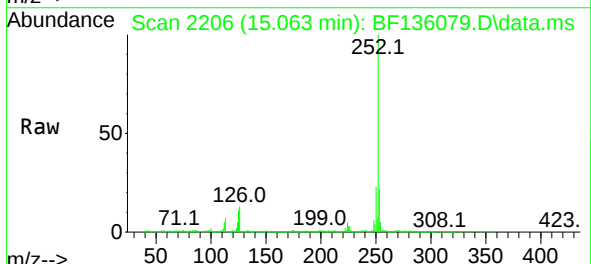
Tgt Ion:276 Resp: 119024
Ion Ratio Lower Upper
276 100
138 21.5 20.4 30.6
277 25.6 20.2 30.2

Manual Integrations
APPROVED

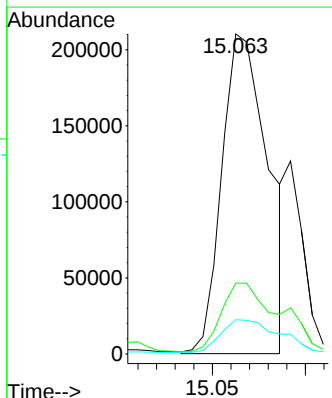
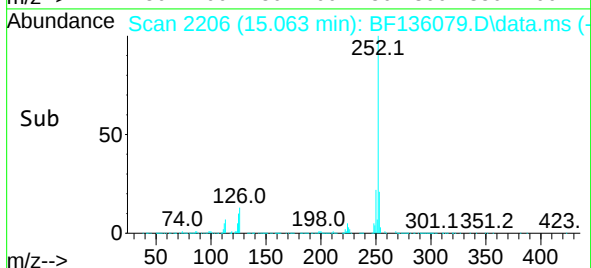
Reviewed By :Yogesh Patel 11/02/2023
Supervised By :mohammad ahmed 11/02/2023

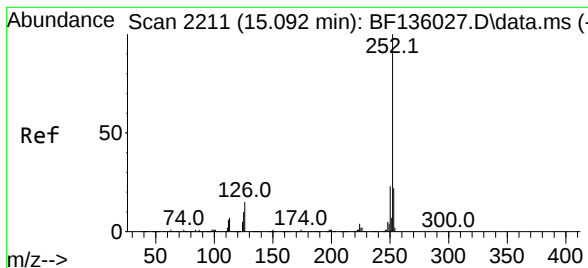


#88
Benzo(b)fluoranthene
Concen: 21.712 ng m
RT: 15.063 min Scan# 2206
Delta R.T. 0.000 min
Lab File: BF136079.D
Acq: 01 Nov 2023 16:27



Tgt Ion:252 Resp: 362262
Ion Ratio Lower Upper
252 100
253 22.2 17.7 26.5
125 10.7 7.5 11.3





#89

Benzo(k)fluoranthene

Concen: 5.341 ng m

RT: 15.092 min Scan# 21

Delta R.T. 0.000 min

Lab File: BF136079.D

Acq: 01 Nov 2023 16:27

Instrument :

BNA_F

ClientSampleId :

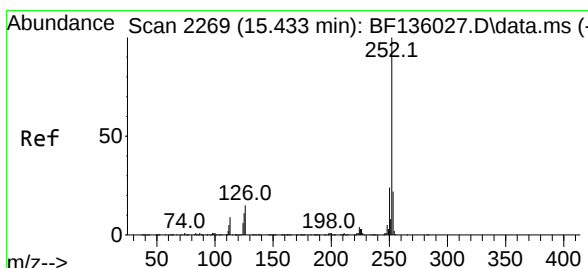
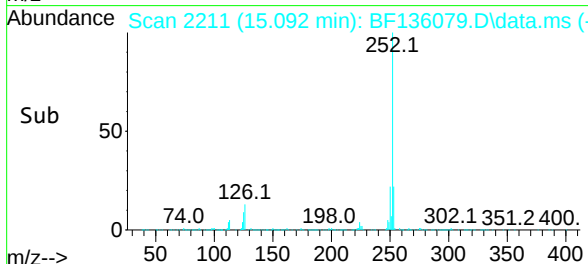
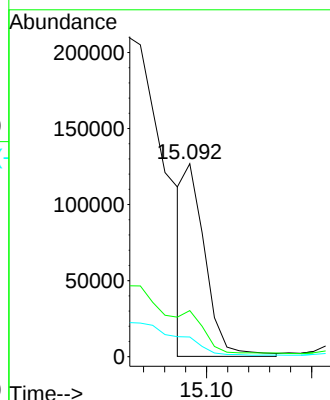
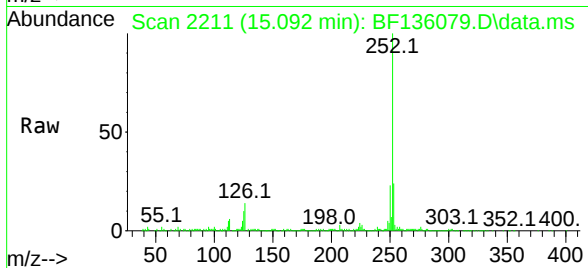
M-2(0-5)DL

Tgt Ion:252 Resp: 8816
 Ion Ratio Lower Upper
 252 100
 253 23.9 17.4 26.0
 125 10.2 8.0 12.0

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/02/2023
 Supervised By :mohammad ahmed 11/02/2023



#90

Benzo(a)pyrene

Concen: 19.879 ng

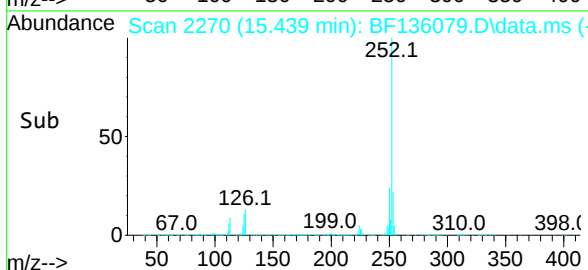
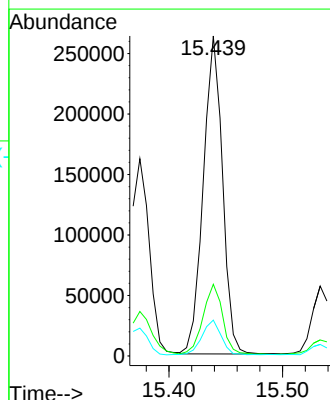
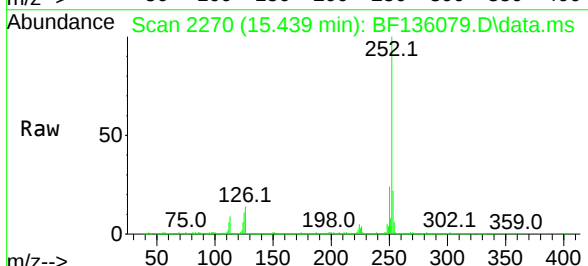
RT: 15.439 min Scan# 2270

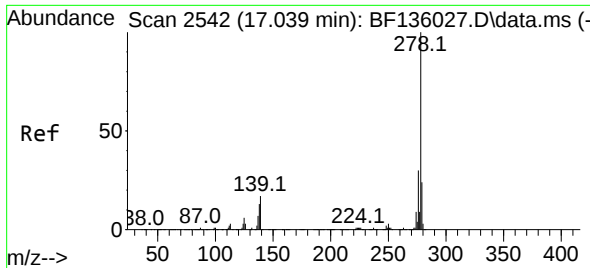
Delta R.T. 0.006 min

Lab File: BF136079.D

Acq: 01 Nov 2023 16:27

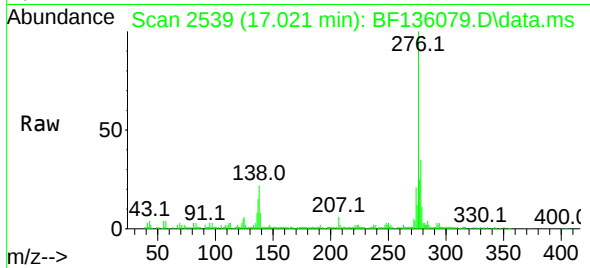
Tgt Ion:252 Resp: 308170
 Ion Ratio Lower Upper
 252 100
 253 22.4 17.3 25.9
 125 11.2 9.0 13.6





#91
Dibenzo(a,h)anthracene
Concen: 2.446 ng m
RT: 17.021 min Scan# 2539
Delta R.T. -0.017 min
Lab File: BF136079.D
Acq: 01 Nov 2023 16:27

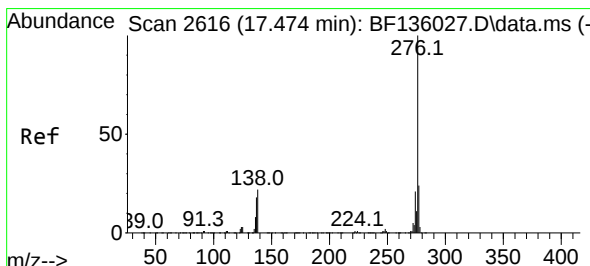
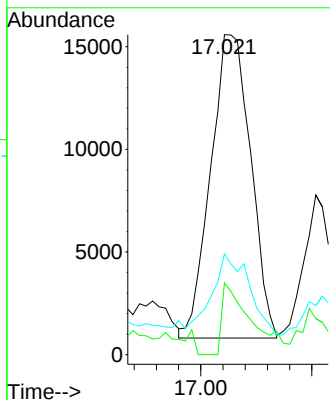
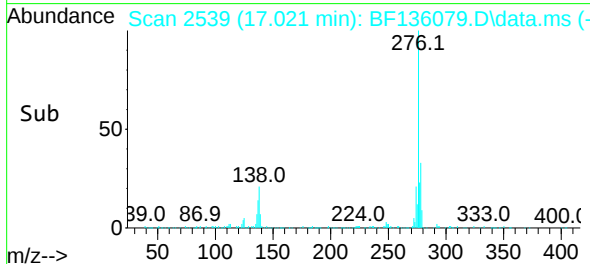
Instrument :
BNA_F
ClientSampleId :
M-2(0-5)DL



Tgt Ion:278 Resp: 36929
Ion Ratio Lower Upper
278 100
139 22.4 13.7 20.5
279 31.5 19.0 28.6

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/02/2023
Supervised By :mohammad ahmed 11/02/2023



#92
Benzo(g,h,i)perylene
Concen: 9.349 ng
RT: 17.474 min Scan# 2616
Delta R.T. 0.000 min
Lab File: BF136079.D
Acq: 01 Nov 2023 16:27

Tgt Ion:276 Resp: 118039
Ion Ratio Lower Upper
276 100
277 23.5 19.0 28.4
138 21.6 17.4 26.2

