

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF103023\
 Data File : BF136042.D
 Acq On : 30 Oct 2023 22:34
 Operator : CG\JU
 Sample : 04704-04DL 25X
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 R-3(10-15)DL

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 10/31/2023
 Supervised By :mohammad ahmed 10/31/2023

Quant Time: Oct 31 01:42:58 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	169061	20.000	ng	0.00
21) Naphthalene-d8	8.104	136	631669	20.000	ng	0.00
39) Acenaphthene-d10	9.863	164	282037	20.000	ng	0.00
64) Phenanthrene-d10	11.357	188	437274	20.000	ng	0.00
76) Chrysene-d12	14.016	240	330041	20.000	ng	0.00
86) Perylene-d12	15.504	264	256245	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.440	112	36756	3.416	ng	-0.01
7) Phenol-d6	6.445	99	48558	3.623	ng	-0.01
23) Nitrobenzene-d5	7.375	82	24800	2.367	ng	-0.02
42) 2,4,6-Tribromophenol	10.651	330	6723	2.233	ng	0.00
45) 2-Fluorobiphenyl	9.181	172	56329	3.184	ng	0.00
79) Terphenyl-d14	12.951	244	52742	2.483	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.128	128	382425	12.555	ng	99
37) 2-Methylnaphthalene	8.816	142	145752	7.136	ng	98
38) 1-Methylnaphthalene	8.916	142	307564	16.182	ng	100
46) 1,1'-Biphenyl	9.281	154	61951	2.881	ng	98
49) Acenaphthylene	9.722	152	150658	6.093	ng	97
52) Acenaphthene	9.892	154	42799	2.723	ng	98
58) Fluorene	10.410	166	180642	10.526	ng	99
71) Phenanthrene	11.380	178	812111	36.886	ng	99
72) Anthracene	11.428	178	141967	6.293	ng	99
75) Fluoranthene	12.574	202	455379	20.133	ng	100
78) Pyrene	12.810	202	726671	24.973	ng	99
81) Benzo(a)anthracene	14.004	228	258264m	11.820	ng	
83) Chrysene	14.039	228	258894	12.031	ng	97
87) Indeno(1,2,3-cd)pyrene	17.015	276	67929	4.056	ng	97
88) Benzo(b)fluoranthene	15.063	252	170787m	11.264	ng	
89) Benzo(k)fluoranthene	15.092	252	45660m	3.044	ng	
90) Benzo(a)pyrene	15.439	252	160699	11.407	ng	95
92) Benzo(g,h,i)perylene	17.468	276	74402	7.371	ng	97

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

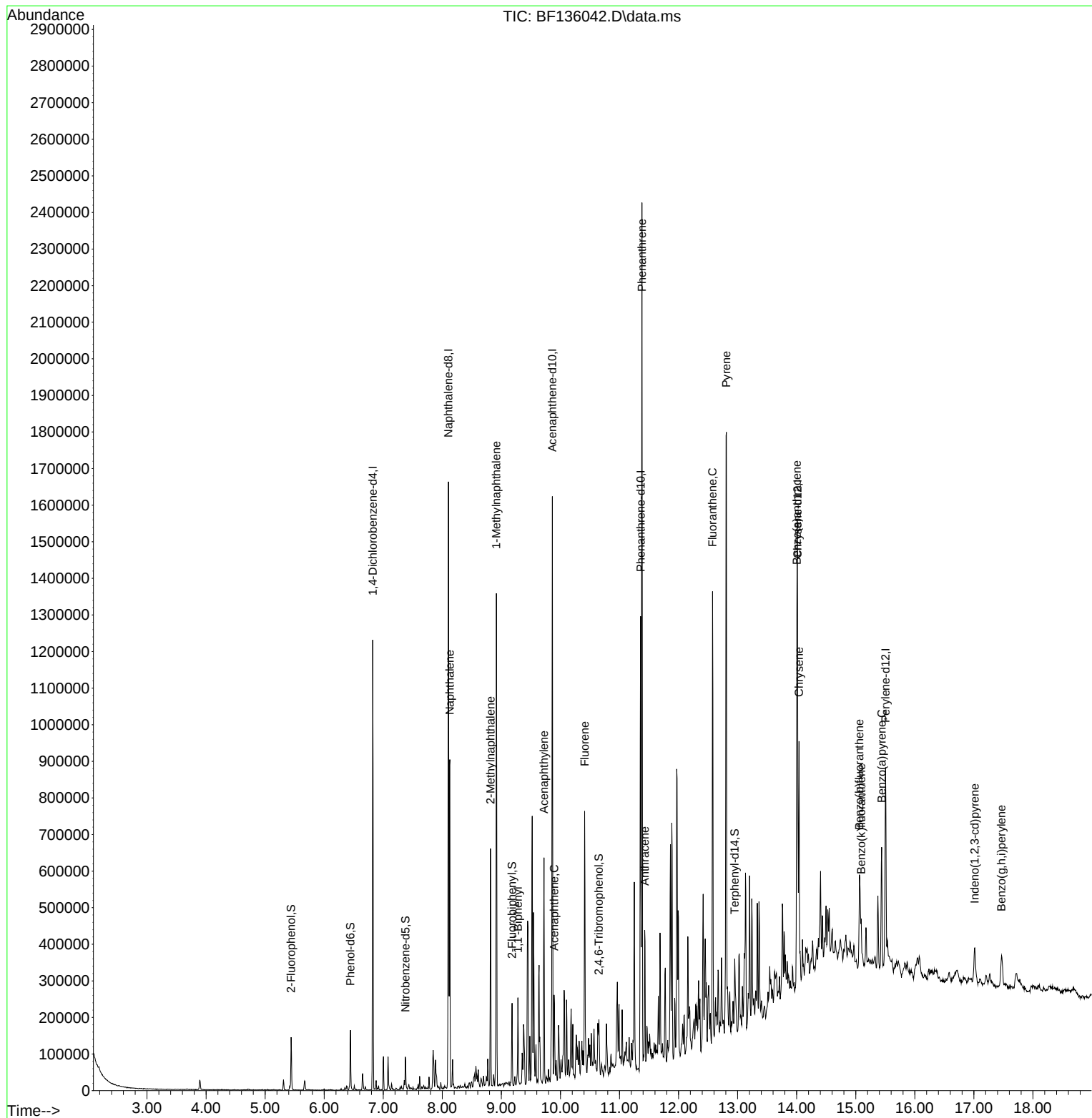
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF103023\
Data File : BF136042.D
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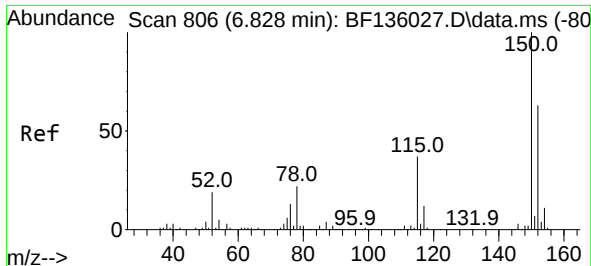
Instrument :
BNA_F
ClientSampleId :
R-3(10-15)DL

Quant Time: Oct 31 01:42:58 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF103023.M
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Manual Integrations
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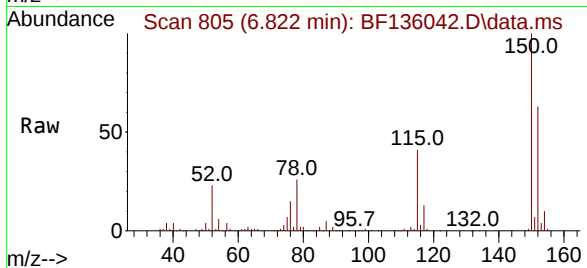
Reviewed By :Yogesh Patel 10/31/2023
Supervised By :mohammad ahmed 10/31/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.822 min Scan# 806
Delta R.T. -0.006 min
Lab File: BF136042.D
Acq: 30 Oct 2023 22:34

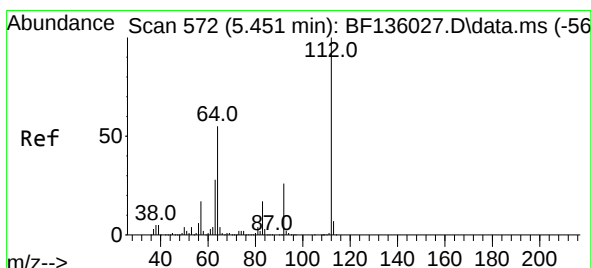
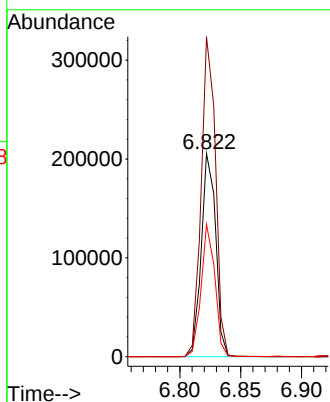
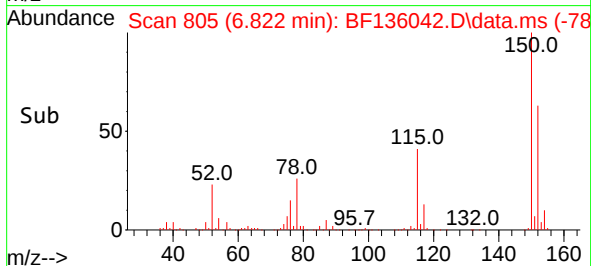
Instrument :
BNA_F
ClientSampleId :
R-3(10-15)DL



Tgt Ion:152 Resp: 16906
Ion Ratio Lower Upper
152 100
150 157.5 126.4 189.6
115 65.2 47.0 70.4

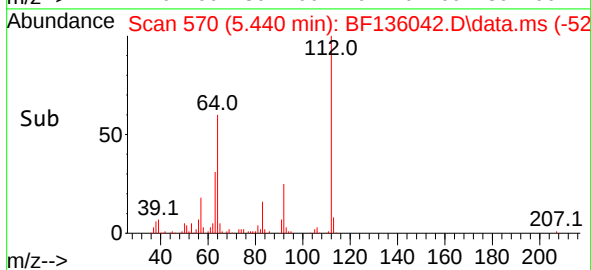
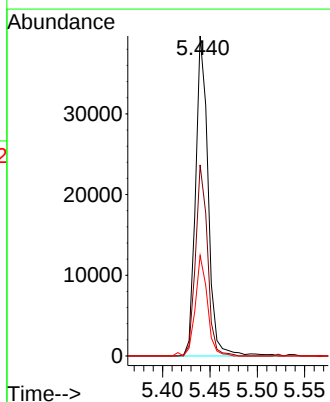
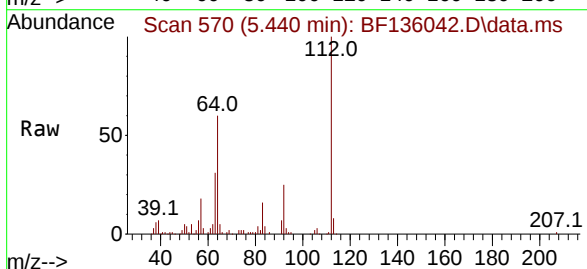
Manual Integrations
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Supervised By :mohammad ahmed 10/31/2023



#5
2-Fluorophenol
Concen: 3.416 ng
RT: 5.440 min Scan# 570
Delta R.T. -0.012 min
Lab File: BF136042.D
Acq: 30 Oct 2023 22:34

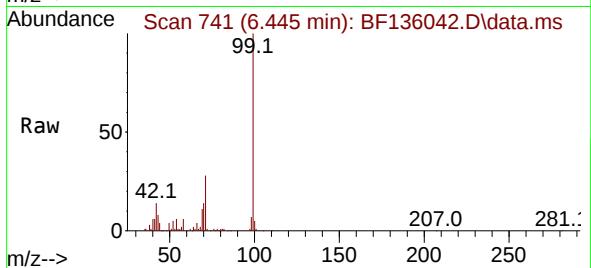
Tgt Ion:112 Resp: 36756
Ion Ratio Lower Upper
112 100
64 59.7 43.9 65.9
63 31.4 22.4 33.6





#7
Phenol-d6
Concen: 3.623 ng
RT: 6.445 min Scan# 743
Delta R.T. -0.012 min
Lab File: BF136042.D
Acq: 30 Oct 2023 22:34

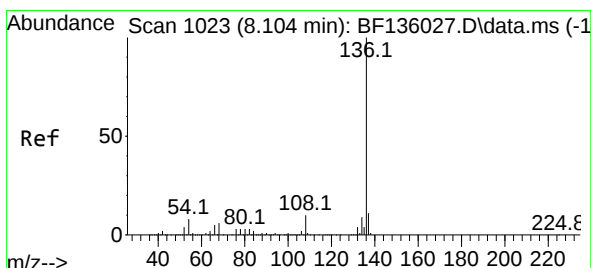
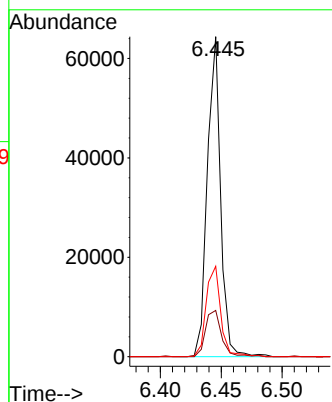
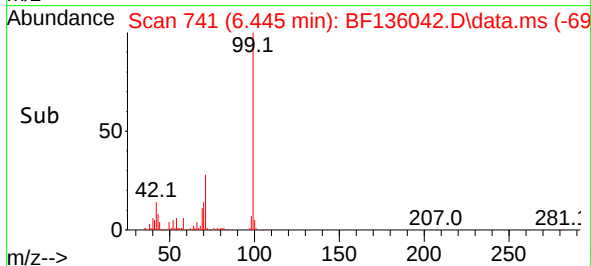
Instrument :
BNA_F
ClientSampleId :
R-3(10-15)DL



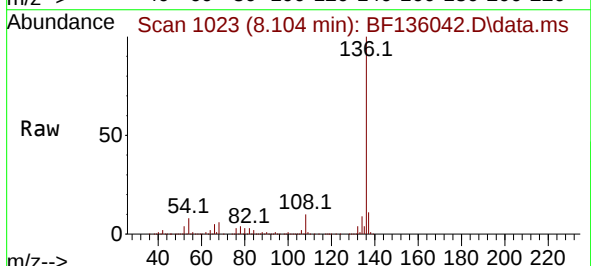
Tgt Ion: 99 Resp: 48558
Ion Ratio Lower Upper
99 100
42 14.5 13.7 20.5
71 28.2 25.9 38.9

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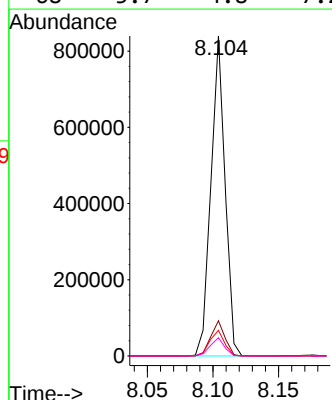
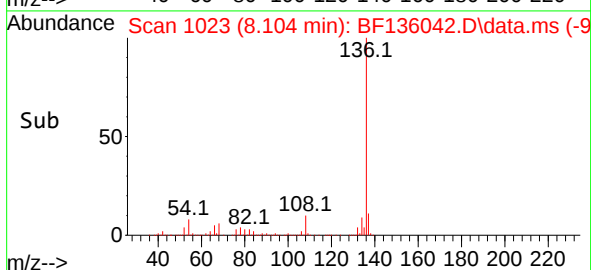
Reviewed By :Yogesh Patel 10/31/2023
Supervised By :mohammad ahmed 10/31/2023

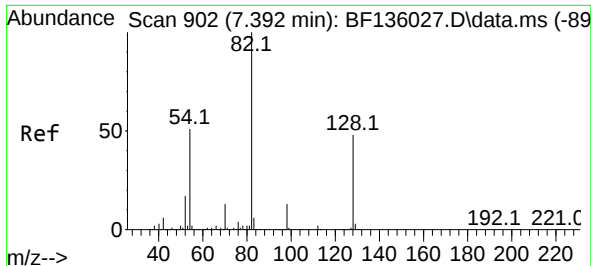


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.104 min Scan# 1023
Delta R.T. 0.000 min
Lab File: BF136042.D
Acq: 30 Oct 2023 22:34



Tgt Ion:136 Resp: 631669
Ion Ratio Lower Upper
136 100
137 11.0 8.6 13.0
54 8.0 6.6 9.8
68 5.7 4.8 7.2





#23

Nitrobenzene-d5

Concen: 2.367 ng

RT: 7.375 min Scan# 899

Delta R.T. -0.017 min

Lab File: BF136042.D

Acq: 30 Oct 2023 22:34

Instrument :

BNA_F

ClientSampleId :

R-3(10-15)DL

Tgt Ion: 82 Resp: 24800

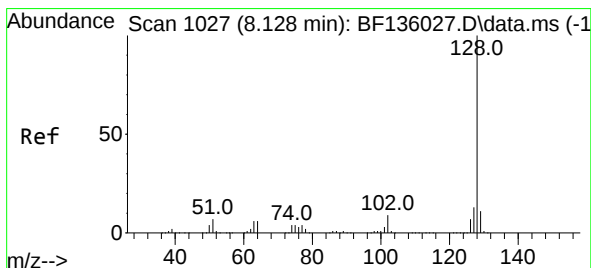
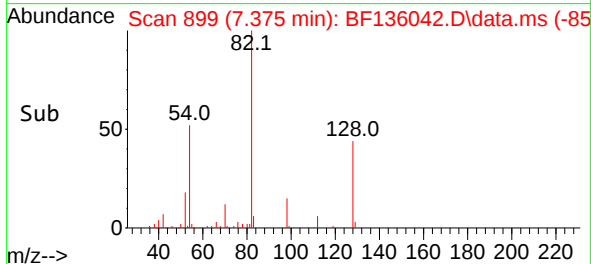
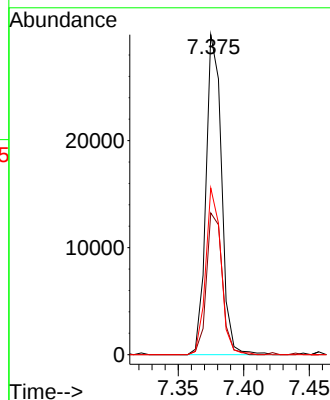
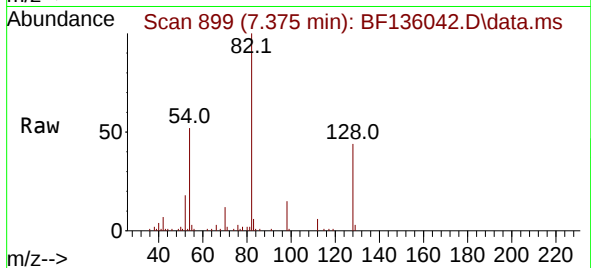
Ion	Ratio	Lower	Upper
82	100		
128	44.3	38.6	57.8
54	52.1	40.8	61.2

Manual Integrations

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#31

Naphthalene

Concen: 12.555 ng

RT: 8.128 min Scan# 1027

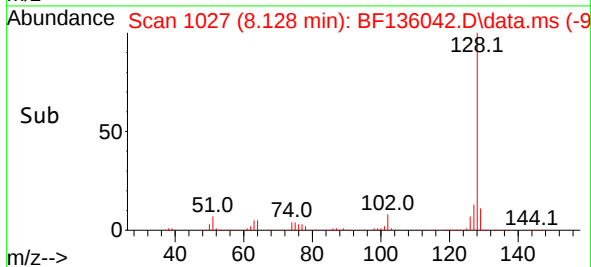
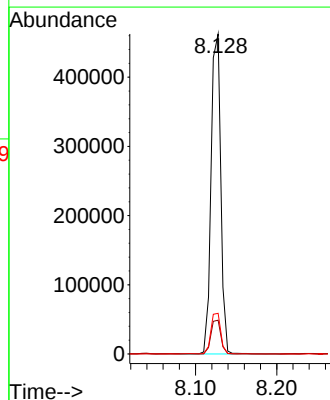
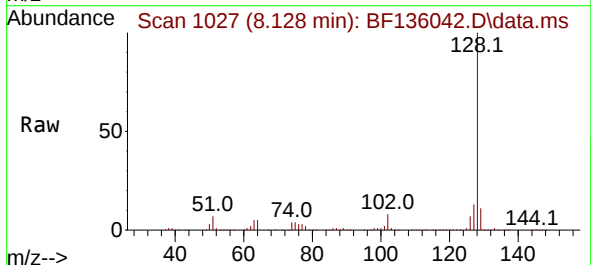
Delta R.T. 0.000 min

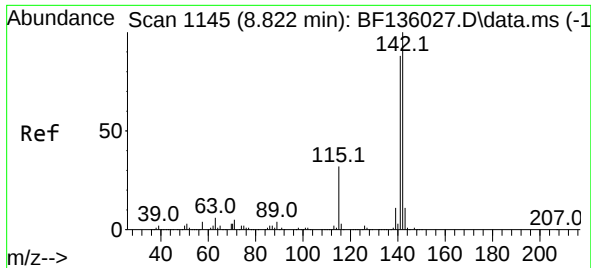
Lab File: BF136042.D

Acq: 30 Oct 2023 22:34

Tgt Ion:128 Resp: 382425

Ion	Ratio	Lower	Upper
128	100		
129	10.6	8.9	13.3
127	12.7	10.5	15.7





#37

2-Methylnaphthalene

Concen: 7.136 ng

RT: 8.816 min Scan# 1144

Delta R.T. -0.006 min

Lab File: BF136042.D

Acq: 30 Oct 2023 22:34

Instrument :

BNA_F

ClientSampleId :

R-3(10-15)DL

Tgt Ion:142 Resp: 145752

Ion Ratio Lower Upper

142 100

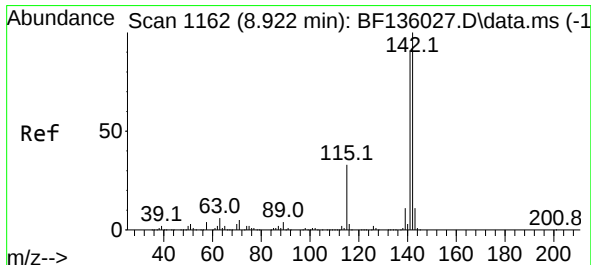
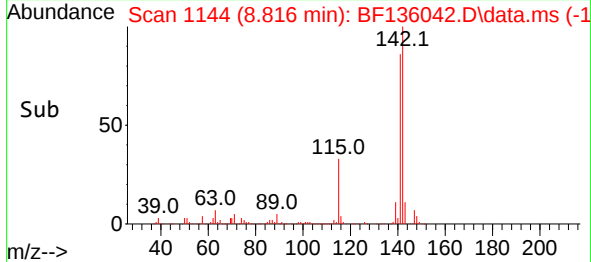
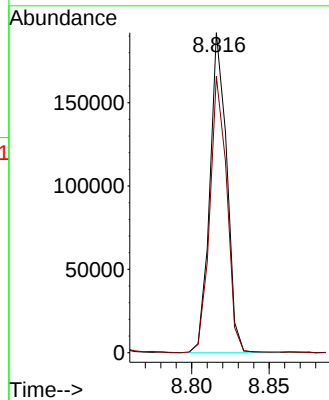
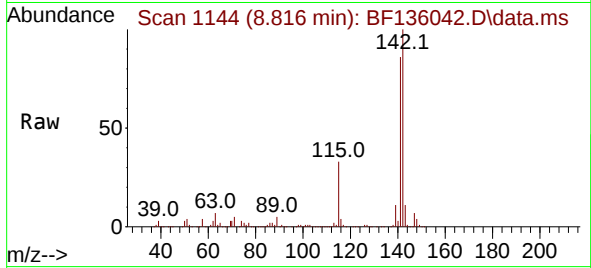
141 86.4 70.4 105.6

Manual Integrations

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#38

1-Methylnaphthalene

Concen: 16.182 ng

RT: 8.916 min Scan# 1161

Delta R.T. -0.006 min

Lab File: BF136042.D

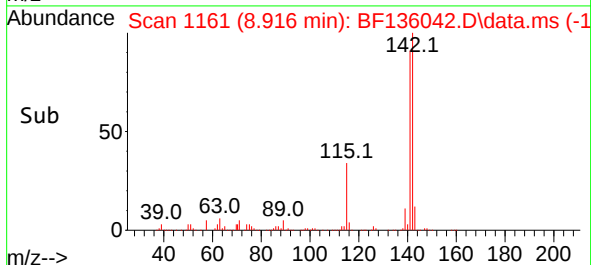
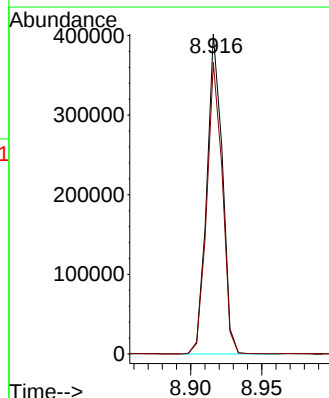
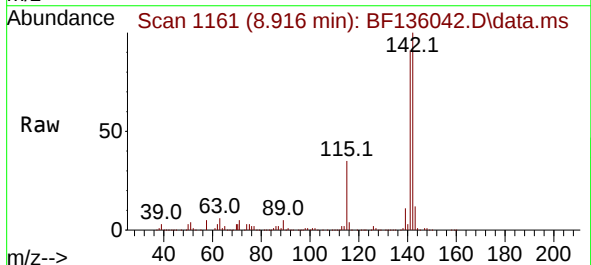
Acq: 30 Oct 2023 22:34

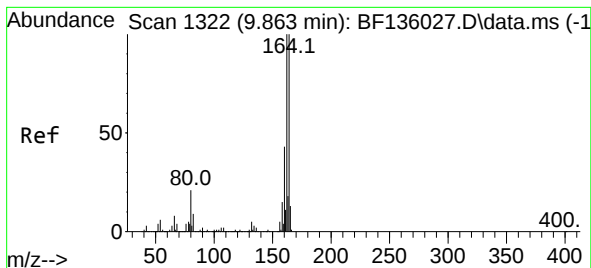
Tgt Ion:142 Resp: 307564

Ion Ratio Lower Upper

142 100

141 91.1 72.6 109.0





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.863 min Scan# 1322

Delta R.T. -0.000 min

Lab File: BF136042.D

Acq: 30 Oct 2023 22:34

Instrument :

BNA_F

ClientSampleId :

R-3(10-15)DL

Tgt Ion:164 Resp: 28203

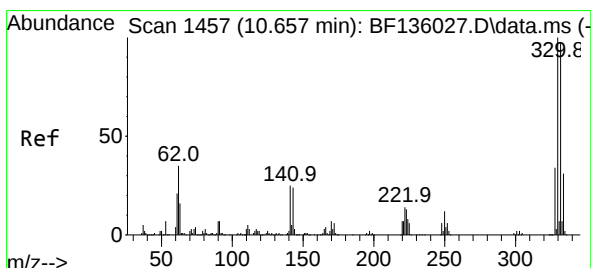
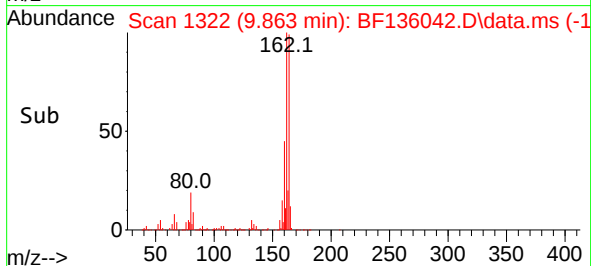
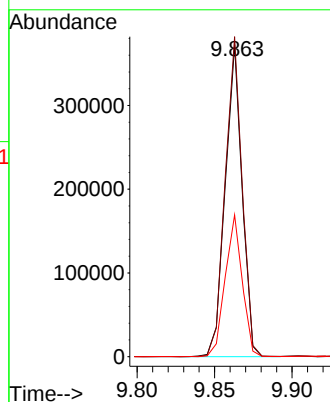
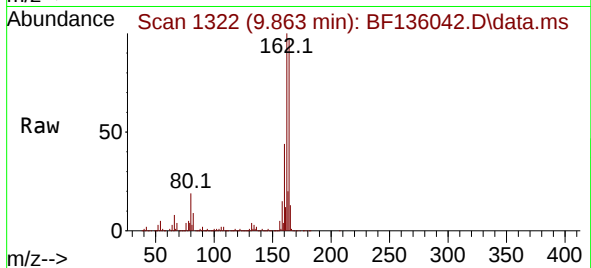
Ion	Ratio	Lower	Upper
164	100		
162	102.6	80.1	120.1
160	45.5	34.8	52.2

Manual Integrations

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#42

2,4,6-Tribromophenol

Concen: 2.233 ng

RT: 10.651 min Scan# 1456

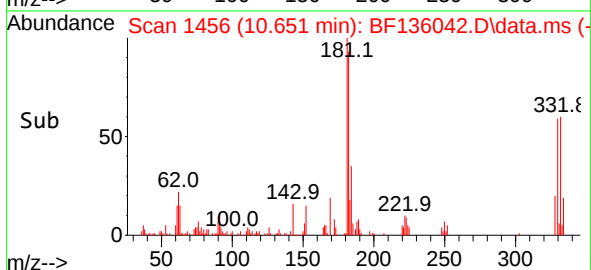
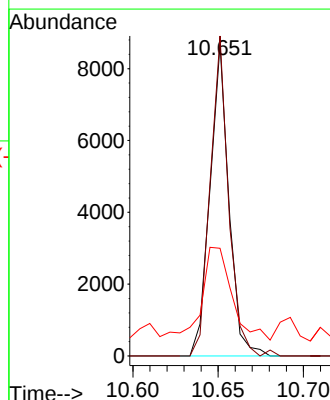
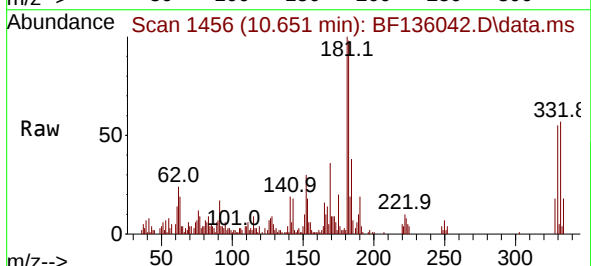
Delta R.T. -0.006 min

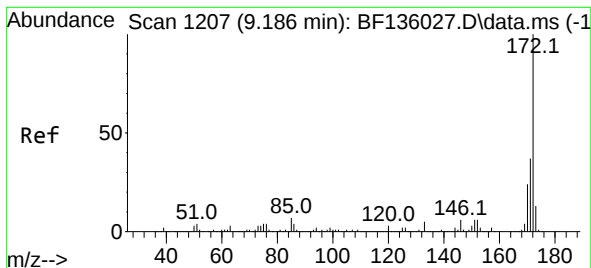
Lab File: BF136042.D

Acq: 30 Oct 2023 22:34

Tgt Ion:330 Resp: 6723

Ion	Ratio	Lower	Upper
330	100		
332	100.2	76.9	115.3
141	45.4	23.2	34.8





#45

2-Fluorobiphenyl

Concen: 3.184 ng

RT: 9.181 min Scan# 1206

Delta R.T. -0.006 min

Lab File: BF136042.D

Acq: 30 Oct 2023 22:34

Instrument :

BNA_F

ClientSampleId :

R-3(10-15)DL

Tgt Ion:172 Resp: 56329

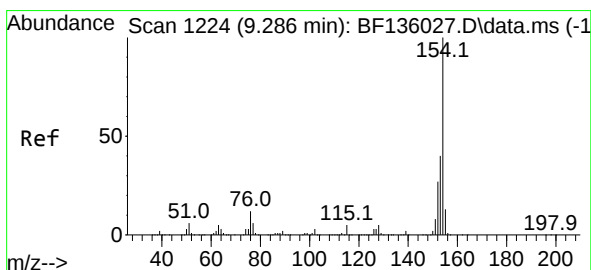
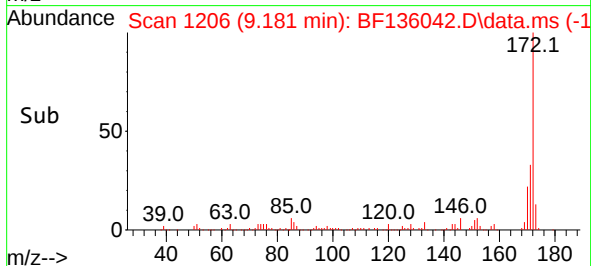
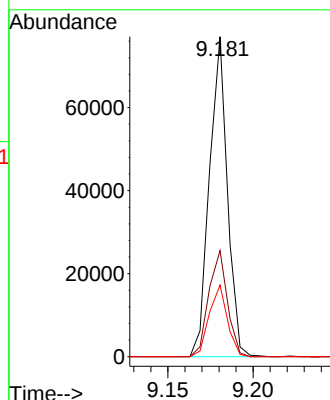
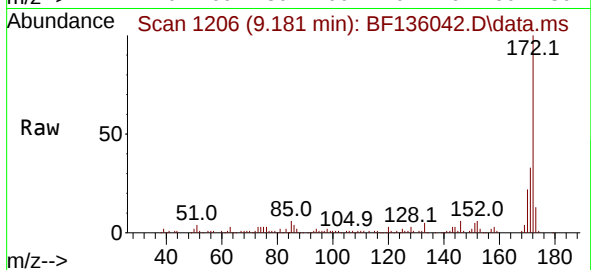
Ion	Ratio	Lower	Upper
172	100		
171	33.2	29.4	44.0
170	22.4	19.3	28.9

Manual Integrations

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Supervised By :mohammad ahmed 10/31/2023



#46

1,1'-Biphenyl

Concen: 2.881 ng

RT: 9.281 min Scan# 1223

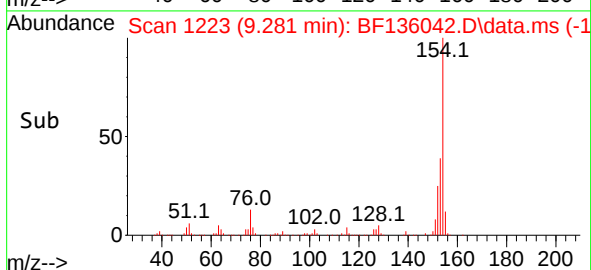
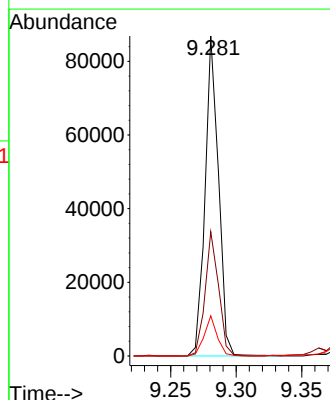
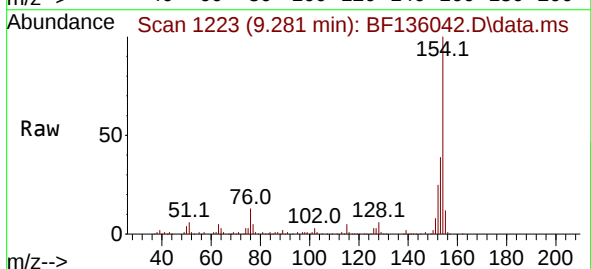
Delta R.T. -0.006 min

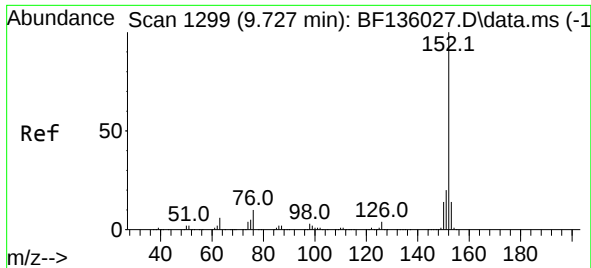
Lab File: BF136042.D

Acq: 30 Oct 2023 22:34

Tgt Ion:154 Resp: 61951

Ion	Ratio	Lower	Upper
154	100		
153	38.9	20.1	60.1
76	12.5	0.0	32.5





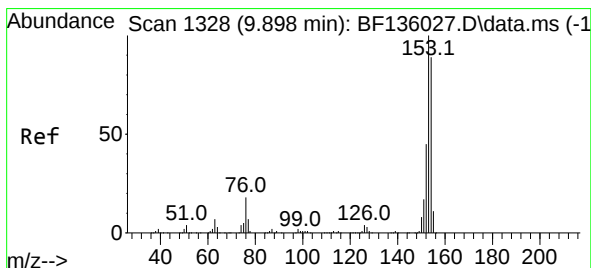
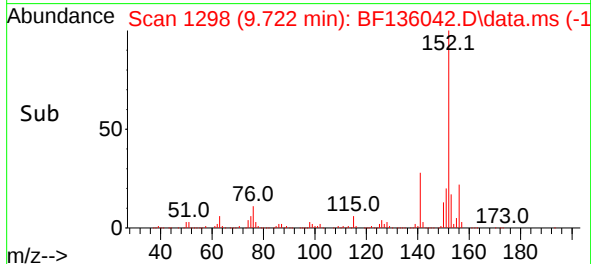
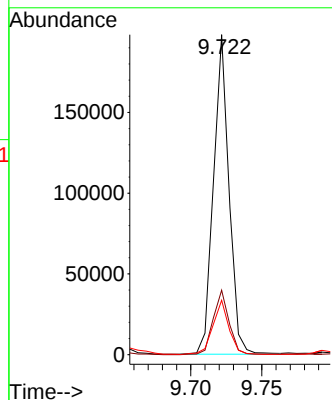
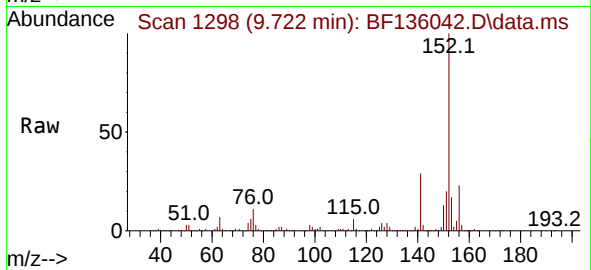
#49
Acenaphthylene
Concen: 6.093 ng
RT: 9.722 min Scan# 1299
Delta R.T. -0.006 min
Lab File: BF136042.D
Acq: 30 Oct 2023 22:34

Instrument :
BNA_F
ClientSampleId :
R-3(10-15)DL

Tgt Ion:152 Resp: 150658
Ion Ratio Lower Upper
152 100
151 20.2 16.1 24.1
153 17.0 11.4 17.2

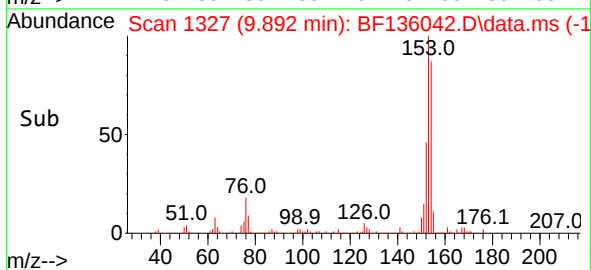
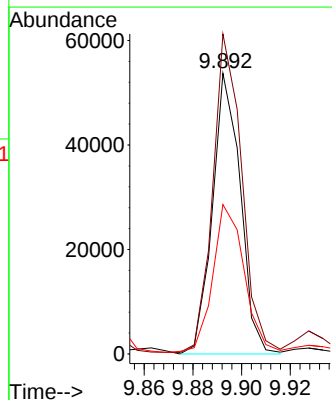
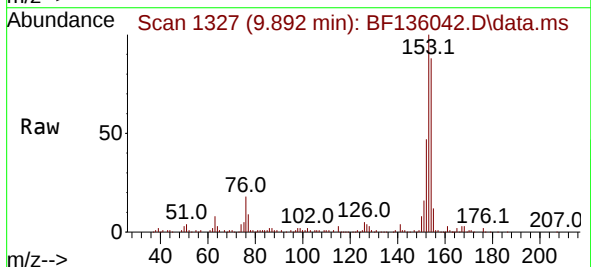
Manual Integrations
APPROVED

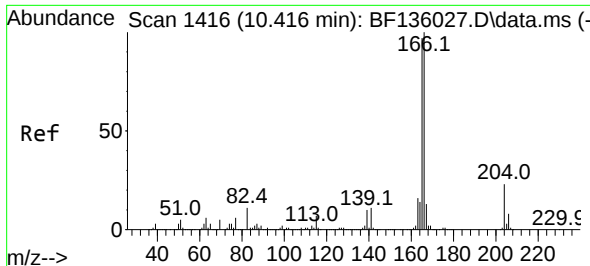
Reviewed By :Yogesh Patel 10/31/2023
Supervised By :mohammad ahmed 10/31/2023



#52
Acenaphthene
Concen: 2.723 ng
RT: 9.892 min Scan# 1327
Delta R.T. -0.006 min
Lab File: BF136042.D
Acq: 30 Oct 2023 22:34

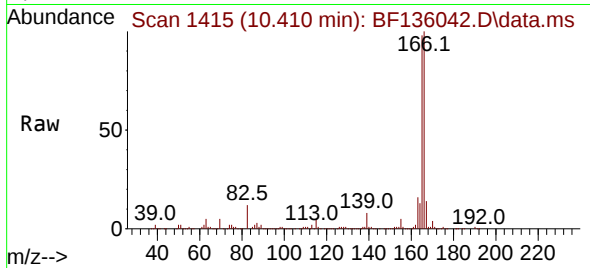
Tgt Ion:154 Resp: 42799
Ion Ratio Lower Upper
154 100
153 114.0 89.9 134.9
152 53.3 40.2 60.2





#58
Fluorene
Concen: 10.526 ng
RT: 10.410 min Scan# 1416
Delta R.T. -0.006 min
Lab File: BF136042.D
Acq: 30 Oct 2023 22:34

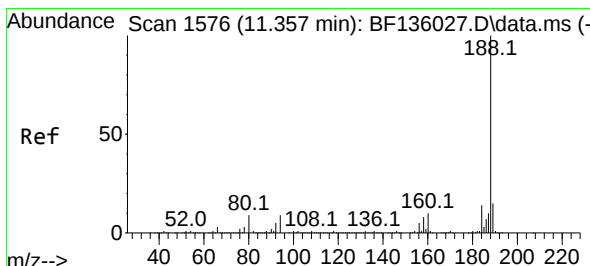
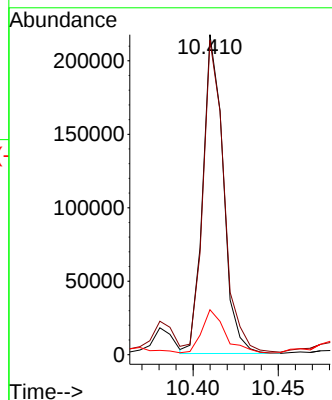
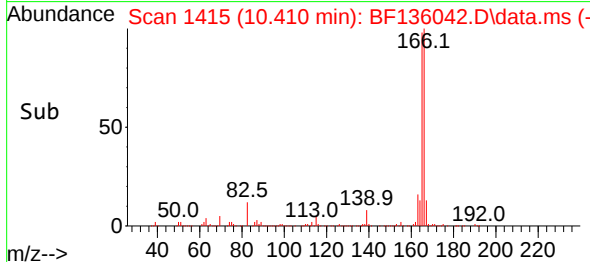
Instrument :
BNA_F
ClientSampleId :
R-3(10-15)DL



Tgt Ion:166 Resp: 18064
Ion Ratio Lower Upper
166 100
165 98.3 77.7 116.5
167 14.0 10.6 16.0

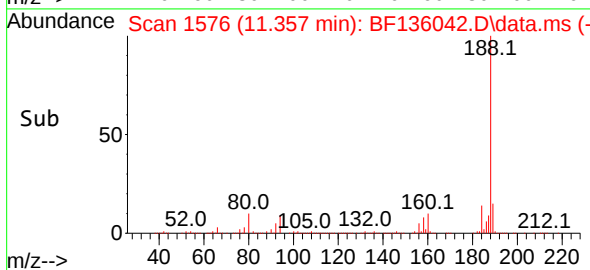
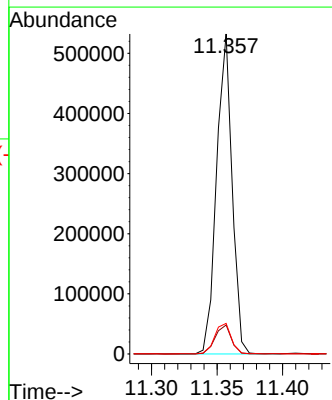
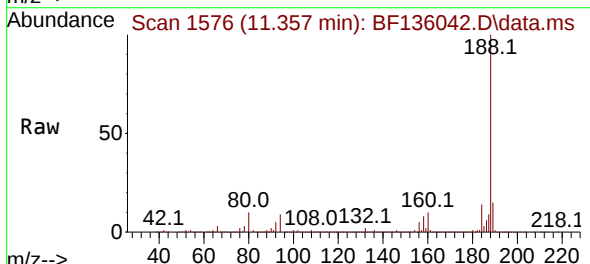
Manual Integrations
APPROVED

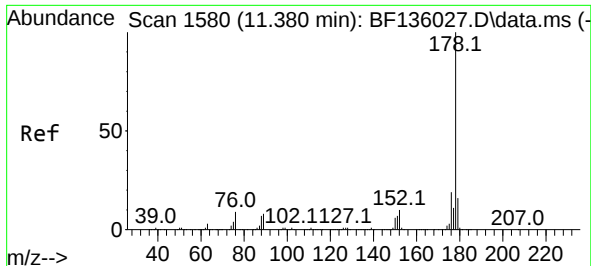
Reviewed By :Yogesh Patel 10/31/2023
Supervised By :mohammad ahmed 10/31/2023



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.357 min Scan# 1576
Delta R.T. -0.000 min
Lab File: BF136042.D
Acq: 30 Oct 2023 22:34

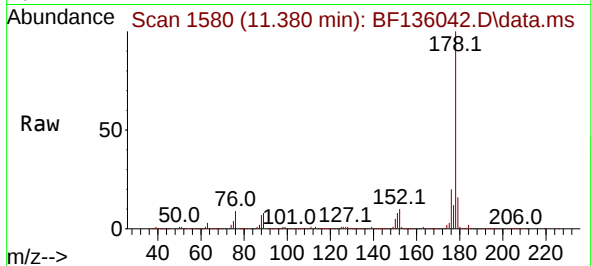
Tgt Ion:188 Resp: 437274
Ion Ratio Lower Upper
188 100
94 9.1 7.2 10.8
80 9.6 7.4 11.0





#71
Phenanthrene
Concen: 36.886 ng
RT: 11.380 min Scan# 1580
Delta R.T. 0.000 min
Lab File: BF136042.D
Acq: 30 Oct 2023 22:34

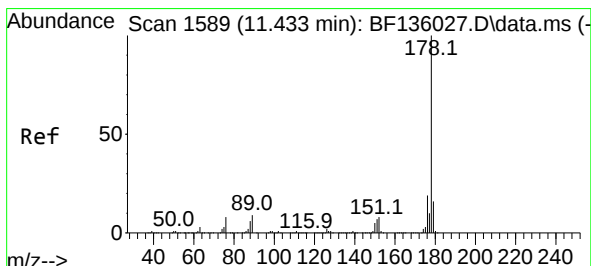
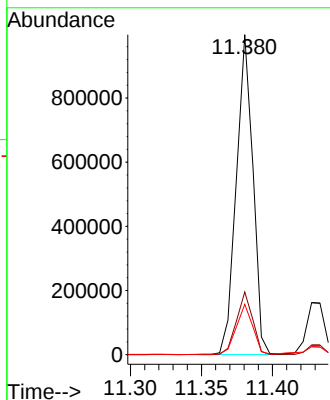
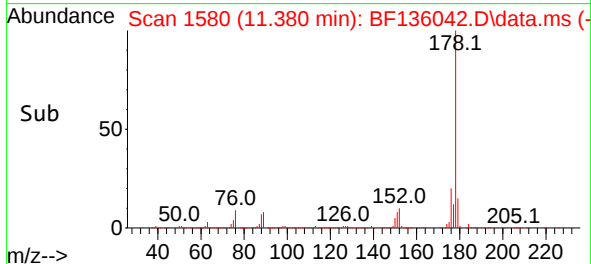
Instrument :
BNA_F
ClientSampleId :
R-3(10-15)DL



Tgt Ion:178 Resp: 812111
Ion Ratio Lower Upper
178 100
176 19.6 15.5 23.3
179 15.8 12.9 19.3

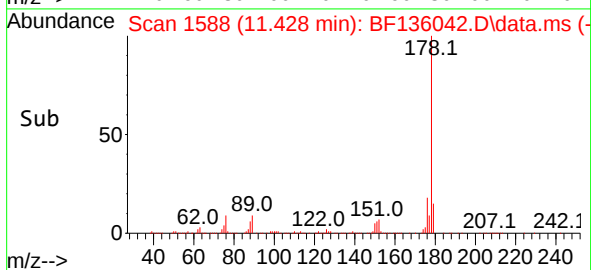
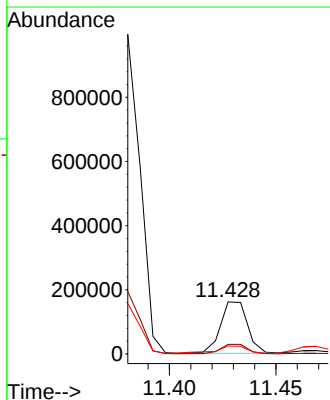
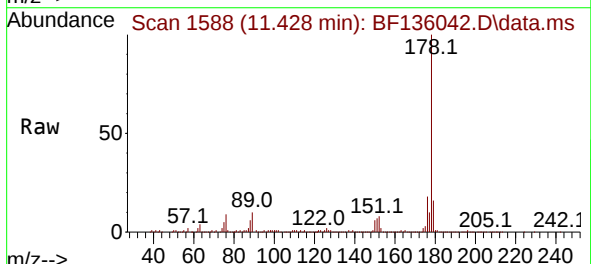
Manual Integrations
APPROVED

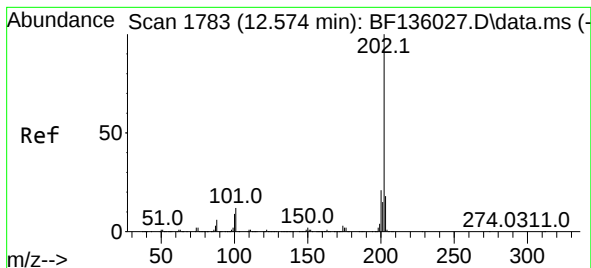
Reviewed By :Yogesh Patel 10/31/2023
Supervised By :mohammad ahmed 10/31/2023



#72
Anthracene
Concen: 6.293 ng
RT: 11.428 min Scan# 1588
Delta R.T. -0.006 min
Lab File: BF136042.D
Acq: 30 Oct 2023 22:34

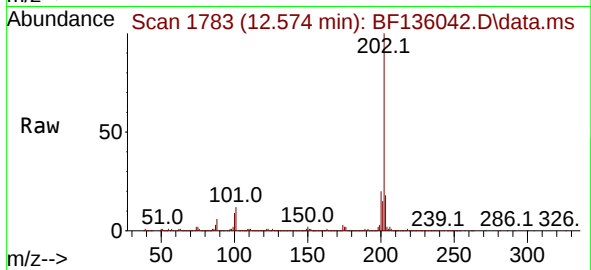
Tgt Ion:178 Resp: 141967
Ion Ratio Lower Upper
178 100
176 18.4 15.0 22.4
179 15.5 12.6 18.8





#75
Fluoranthene
Concen: 20.133 ng
RT: 12.574 min Scan# 1783
Delta R.T. 0.000 min
Lab File: BF136042.D
Acq: 30 Oct 2023 22:34

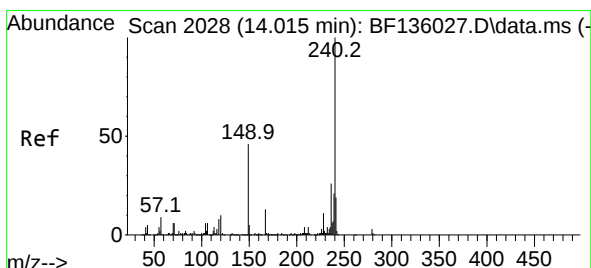
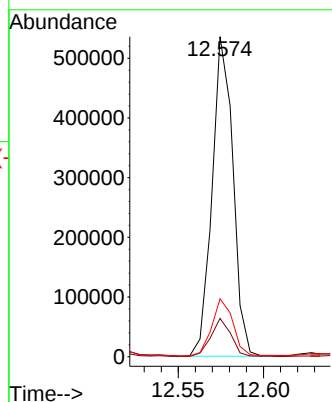
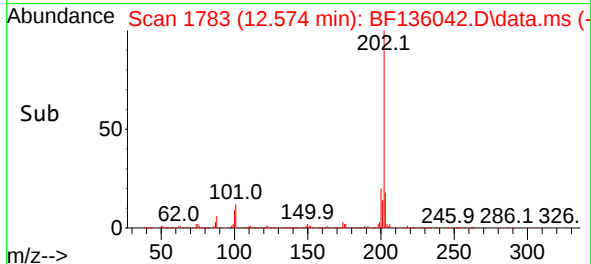
Instrument :
BNA_F
ClientSampleId :
R-3(10-15)DL



Tgt Ion:202 Resp: 455379
Ion Ratio Lower Upper
202 100
101 12.0 0.0 31.8
203 18.1 0.0 37.9

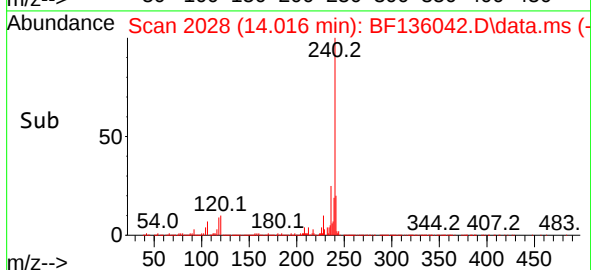
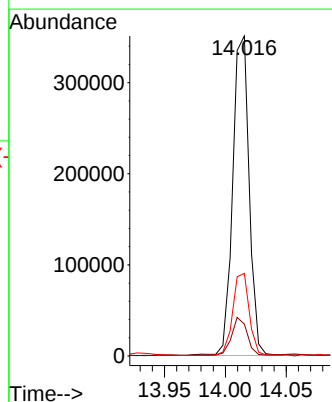
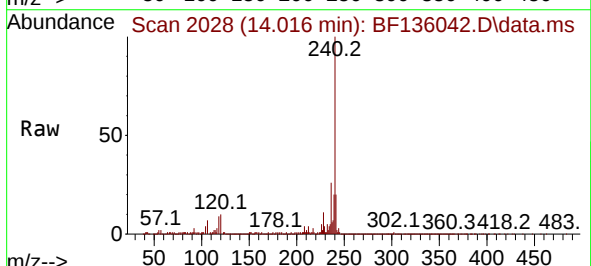
Manual Integrations
APPROVED

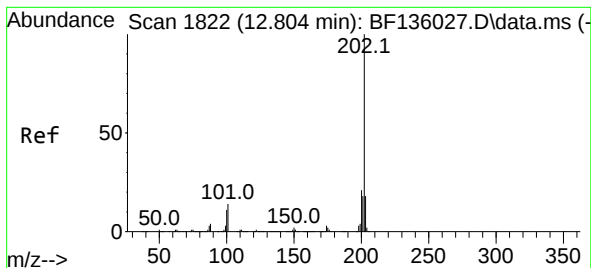
Reviewed By :Yogesh Patel 10/31/2023
Supervised By :mohammad ahmed 10/31/2023



#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.016 min Scan# 2028
Delta R.T. 0.000 min
Lab File: BF136042.D
Acq: 30 Oct 2023 22:34

Tgt Ion:240 Resp: 330041
Ion Ratio Lower Upper
240 100
120 9.9 7.6 11.4
236 25.8 20.6 31.0





#78

Pyrene

Concen: 24.973 ng

RT: 12.810 min Scan# 1822

Delta R.T. 0.006 min

Lab File: BF136042.D

Acq: 30 Oct 2023 22:34

Instrument :

BNA_F

ClientSampleId :

R-3(10-15)DL

Tgt Ion:202 Resp: 72667

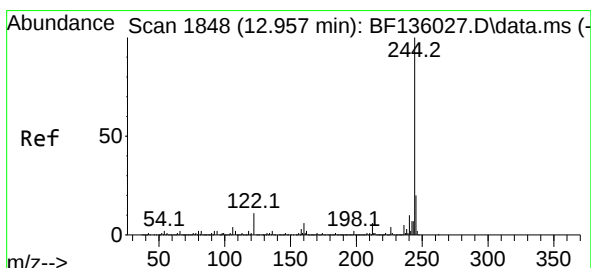
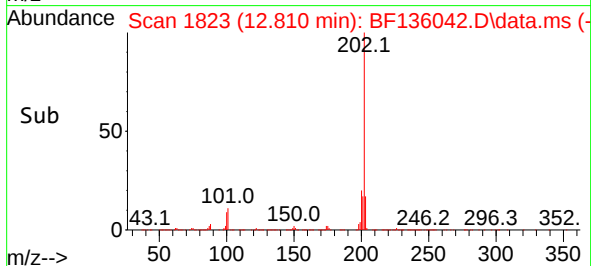
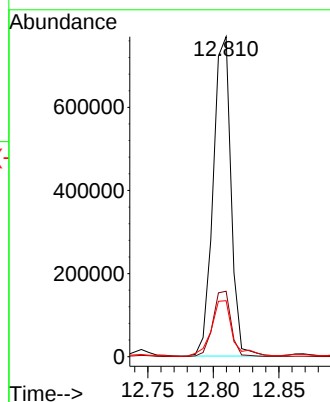
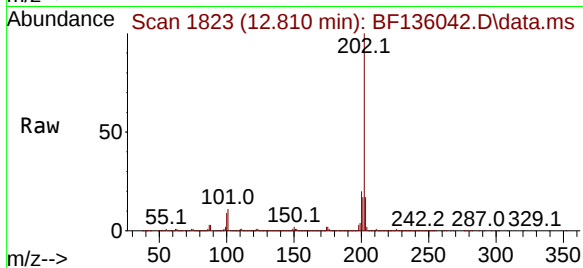
Ion	Ratio	Lower	Upper
202	100		
200	20.5	17.0	25.4
203	17.5	14.4	21.6

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/31/2023

Supervised By :mohammad ahmed 10/31/2023



#79

Terphenyl-d14

Concen: 2.483 ng

RT: 12.951 min Scan# 1847

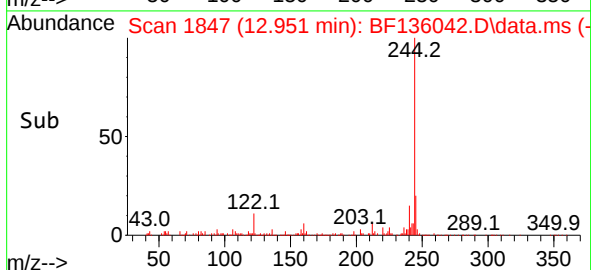
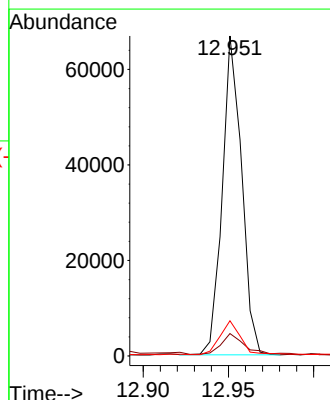
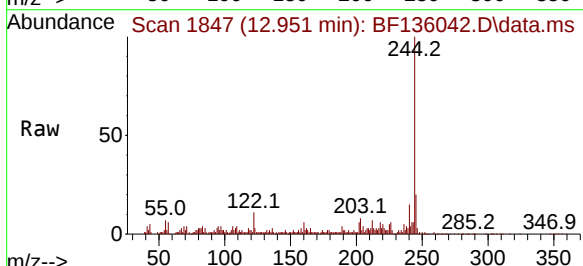
Delta R.T. -0.006 min

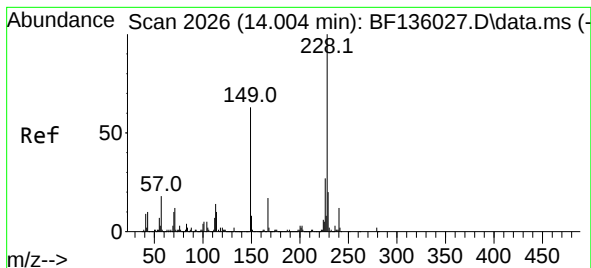
Lab File: BF136042.D

Acq: 30 Oct 2023 22:34

Tgt Ion:244 Resp: 52742

Ion	Ratio	Lower	Upper
244	100		
212	7.0	5.1	7.7
122	11.0	8.6	12.8





#81

Benzo(a)anthracene

Concen: 11.820 ng m

RT: 14.004 min Scan# 2026

Delta R.T. 0.000 min

Lab File: BF136042.D

Acq: 30 Oct 2023 22:34

Instrument :

BNA_F

ClientSampleId :

R-3(10-15)DL

Tgt Ion:228 Resp: 258264

Ion Ratio Lower Upper

228 100

226 36.6 21.5 32.3

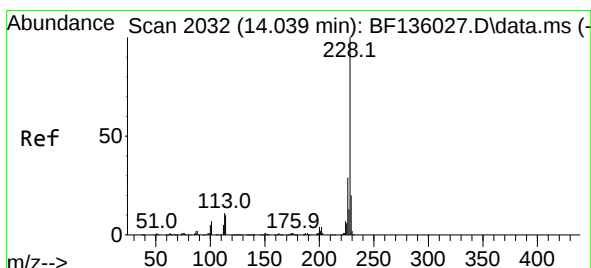
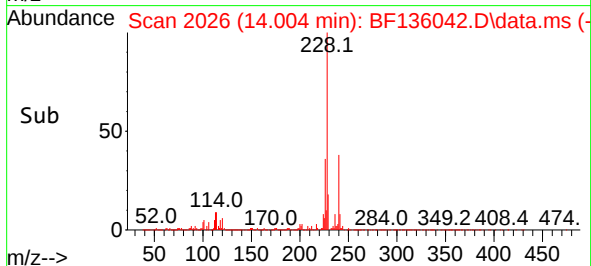
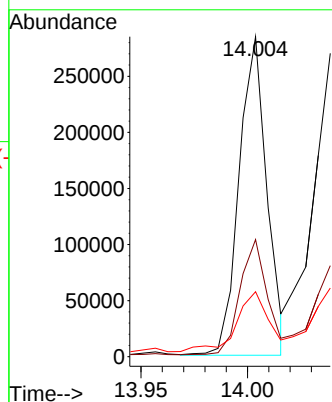
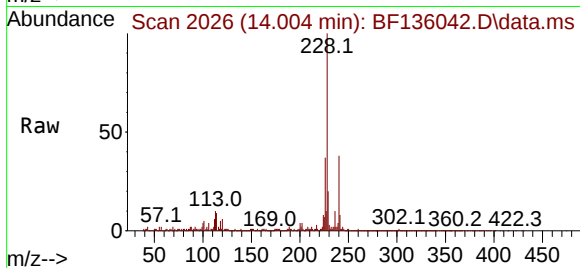
229 20.3 15.8 23.6

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/31/2023

Supervised By :mohammad ahmed 10/31/2023



#83

Chrysene

Concen: 12.031 ng

RT: 14.039 min Scan# 2032

Delta R.T. 0.000 min

Lab File: BF136042.D

Acq: 30 Oct 2023 22:34

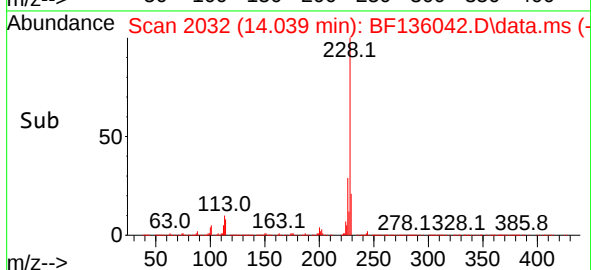
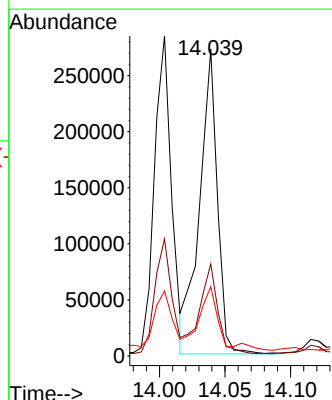
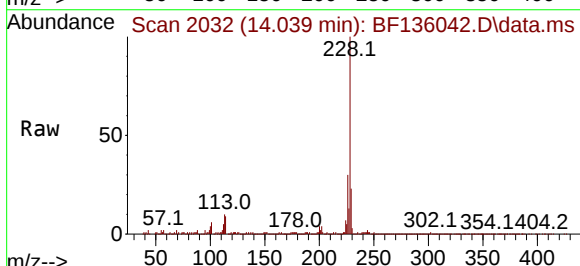
Tgt Ion:228 Resp: 258894

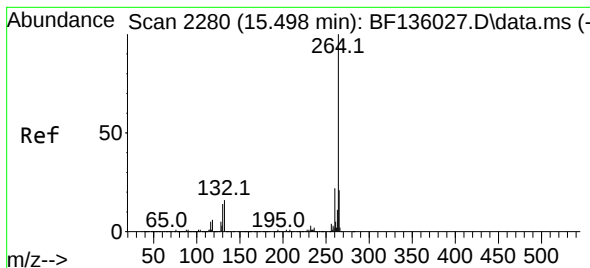
Ion Ratio Lower Upper

228 100

226 30.0 23.5 35.3

229 22.6 16.0 24.0





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.504 min Scan# 21

Delta R.T. 0.006 min

Lab File: BF136042.D

Acq: 30 Oct 2023 22:34

Instrument :

BNA_F

ClientSampleId :

R-3(10-15)DL

Tgt Ion:264 Resp: 25624

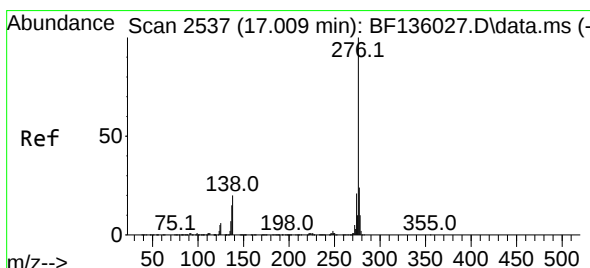
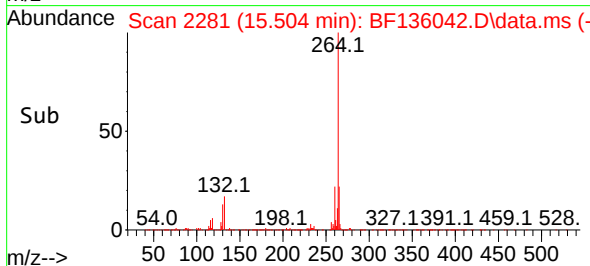
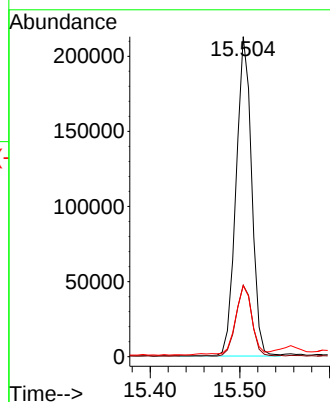
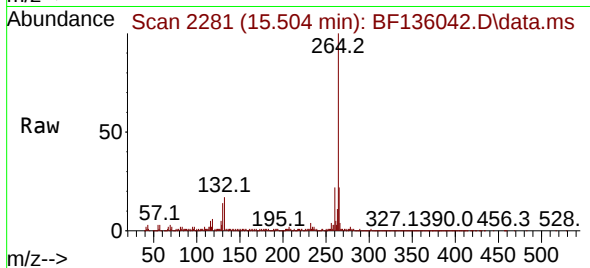
Ion	Ratio	Lower	Upper
264	100		
260	22.4	17.9	26.9
265	22.2	16.8	25.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/31/2023

Supervised By :mohammad ahmed 10/31/2023



#87

Indeno(1,2,3-cd)pyrene

Concen: 4.056 ng

RT: 17.015 min Scan# 2538

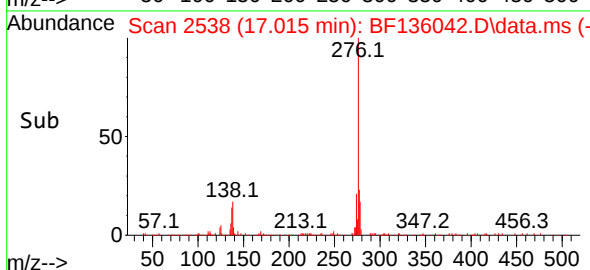
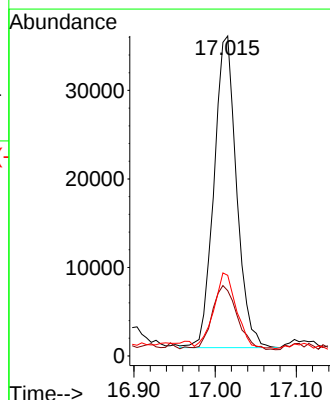
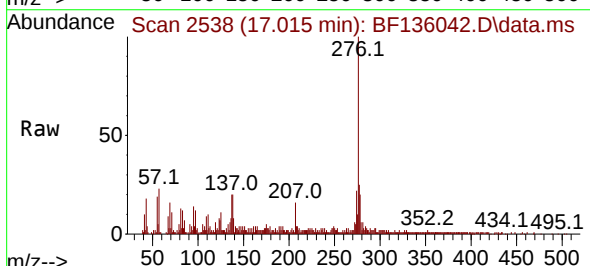
Delta R.T. 0.006 min

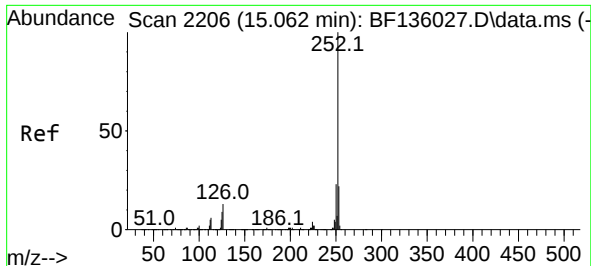
Lab File: BF136042.D

Acq: 30 Oct 2023 22:34

Tgt Ion:276 Resp: 67929

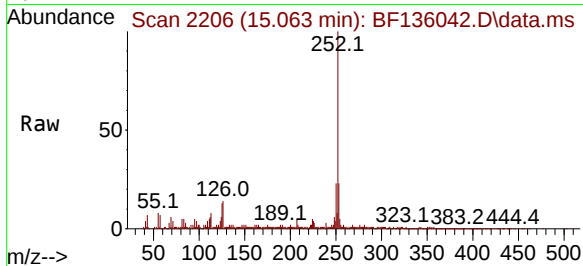
Ion	Ratio	Lower	Upper
276	100		
138	23.0	20.4	30.6
277	24.6	20.2	30.2





#88
Benzo(b)fluoranthene
Concen: 11.264 ng m
RT: 15.063 min Scan# 2206
Delta R.T. 0.000 min
Lab File: BF136042.D
Acq: 30 Oct 2023 22:34

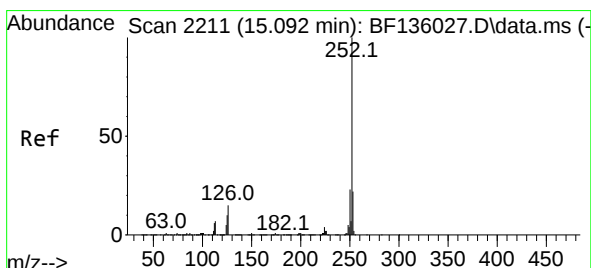
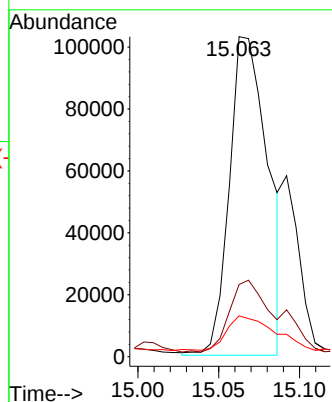
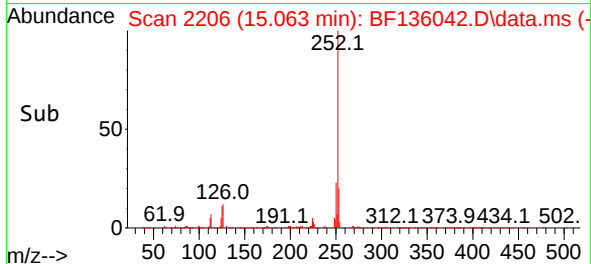
Instrument :
BNA_F
ClientSampleId :
R-3(10-15)DL



Tgt Ion:252 Resp: 17078
Ion Ratio Lower Upper
252 100
253 22.6 17.7 26.5
125 12.8 7.5 11.3

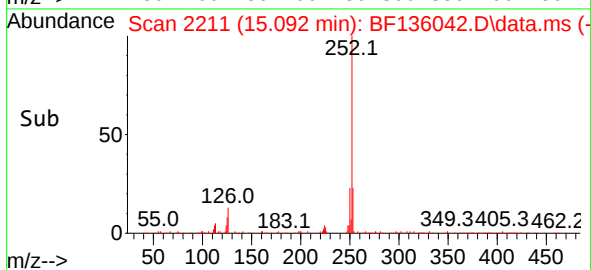
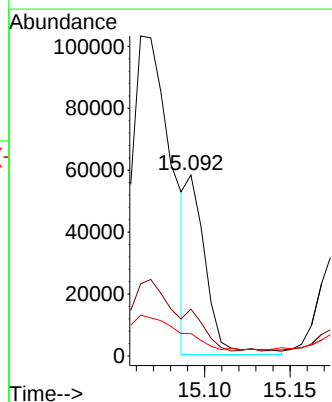
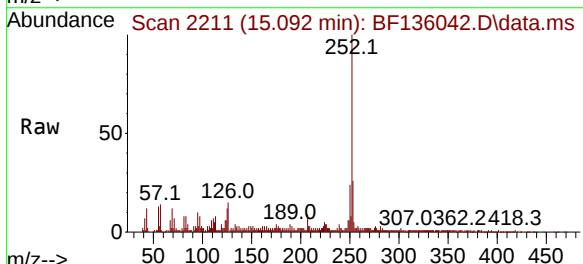
Manual Integrations
APPROVED

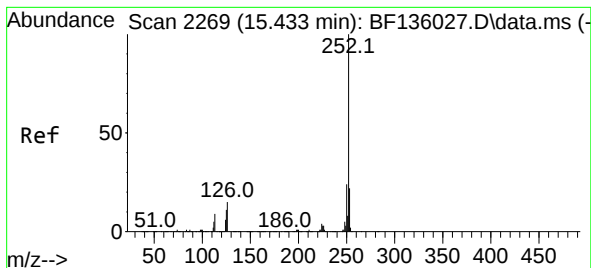
Reviewed By :Yogesh Patel 10/31/2023
Supervised By :mohammad ahmed 10/31/2023



#89
Benzo(k)fluoranthene
Concen: 3.044 ng m
RT: 15.092 min Scan# 2211
Delta R.T. 0.000 min
Lab File: BF136042.D
Acq: 30 Oct 2023 22:34

Tgt Ion:252 Resp: 45660
Ion Ratio Lower Upper
252 100
253 25.9 17.4 26.0
125 12.3 8.0 12.0





#90

Benzo(a)pyrene

Concen: 11.407 ng

RT: 15.439 min Scan# 21

Delta R.T. 0.006 min

Lab File: BF136042.D

Acq: 30 Oct 2023 22:34

Instrument :

BNA_F

ClientSampleId :

R-3(10-15)DL

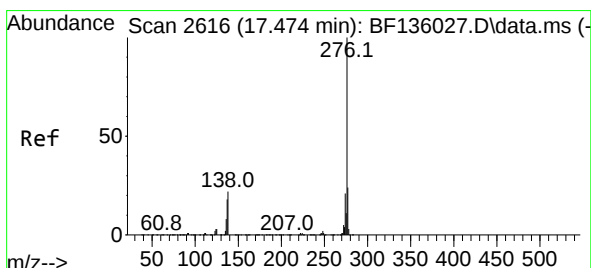
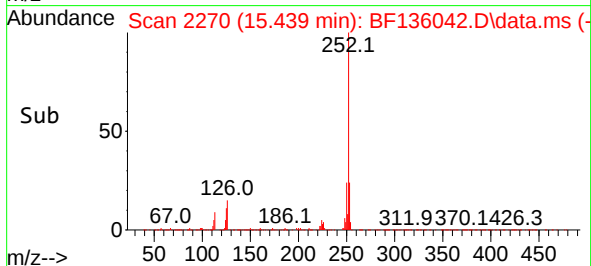
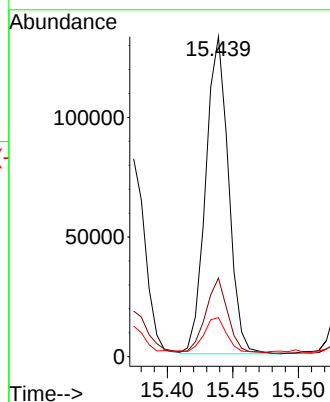
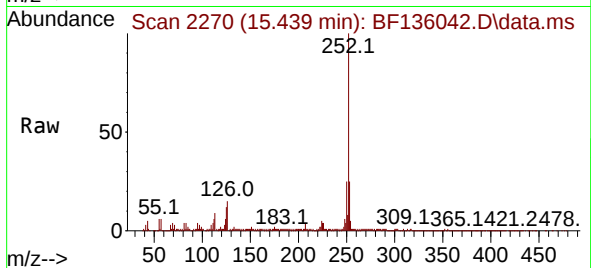
Tgt Ion:252 Resp: 160699
 Ion Ratio Lower Upper
 252 100
 253 24.5 17.3 25.9
 125 12.2 9.0 13.6

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/31/2023

Supervised By :mohammad ahmed 10/31/2023



#92

Benzo(g,h,i)perylene

Concen: 7.371 ng

RT: 17.468 min Scan# 2615

Delta R.T. -0.006 min

Lab File: BF136042.D

Acq: 30 Oct 2023 22:34

Tgt Ion:276 Resp: 74402
 Ion Ratio Lower Upper
 276 100
 277 24.5 19.0 28.4
 138 24.0 17.4 26.2

