

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110123\
 Data File : BF136081.D
 Acq On : 01 Nov 2023 17:27
 Operator : CG\JU
 Sample : 05040-01DL 5X
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 M-4(50FT)(0-5)DL

Manual Integrations
 APPROVED

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

Quant Time: Nov 01 22:41:30 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	6.823	152	131023	20.000	ng	0.00
21) Naphthalene-d8	8.099	136	502033	20.000	ng	0.00
39) Acenaphthene-d10	9.864	164	246978	20.000	ng	0.00
64) Phenanthrene-d10	11.352	188	382561	20.000	ng	0.00
76) Chrysene-d12	14.011	240	269296	20.000	ng	0.00
86) Perylene-d12	15.505	264	258338	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.441	112	185966	22.304	ng	-0.01
7) Phenol-d6	6.447	99	235016	22.623	ng	-0.01
23) Nitrobenzene-d5	7.376	82	129362	15.533	ng	-0.02
42) 2,4,6-Tribromophenol	10.652	330	51755	19.633	ng	0.00
45) 2-Fluorobiphenyl	9.182	172	286271	18.477	ng	0.00
79) Terphenyl-d14	12.952	244	243725	14.065	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.123	128	68815	2.843	ng	100
38) 1-Methylnaphthalene	8.917	142	32010	2.119	ng	97
49) Acenaphthylene	9.723	152	91423	4.222	ng	99
58) Fluorene	10.411	166	48180	3.206	ng	98
71) Phenanthrene	11.376	178	290860	15.100	ng	99
72) Anthracene	11.429	178	124441	6.305	ng	98
75) Fluoranthene	12.576	202	447536	22.616	ng	100
78) Pyrene	12.805	202	610817	25.727	ng	99
81) Benzo(a)anthracene	14.005	228	277983m	15.592	ng	
83) Chrysene	14.040	228	276391	15.742	ng	98
87) Indeno(1,2,3-cd)pyrene	17.011	276	94976	5.625	ng	96
88) Benzo(b)fluoranthene	15.064	252	272795m	17.846	ng	
89) Benzo(k)fluoranthene	15.093	252	64333m	4.253	ng	
90) Benzo(a)pyrene	15.440	252	222332	15.654	ng	98
92) Benzo(g,h,i)perylene	17.469	276	100114	8.870	ng	99

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

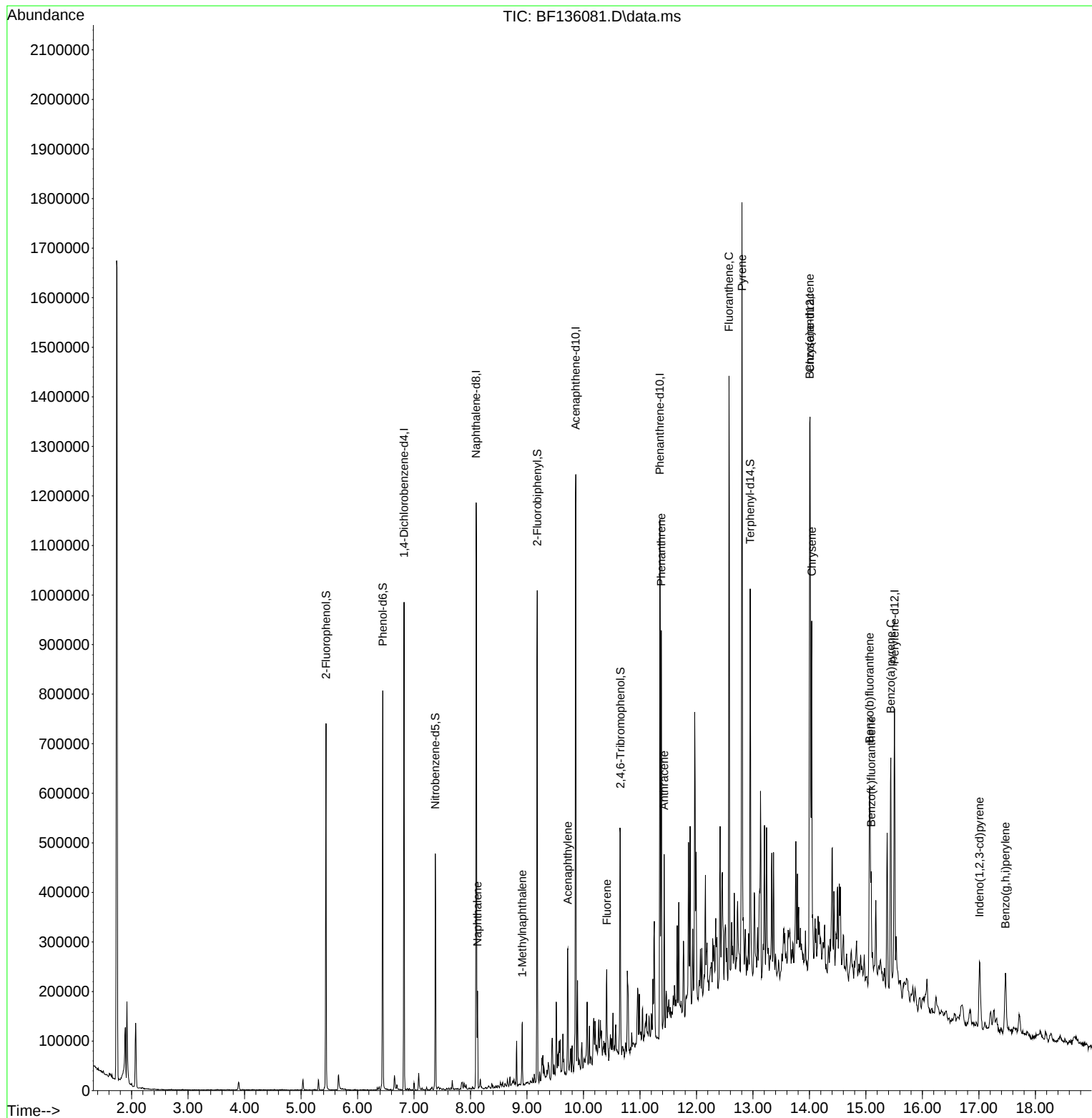
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110123\
Data File : BF136081.D
Acq On : 01 Nov 2023 17:27
Operator : CG\JU
Sample : 05040-01DL 5X
Misc :
ALS Vial : 15 Sample Multiplier: 1

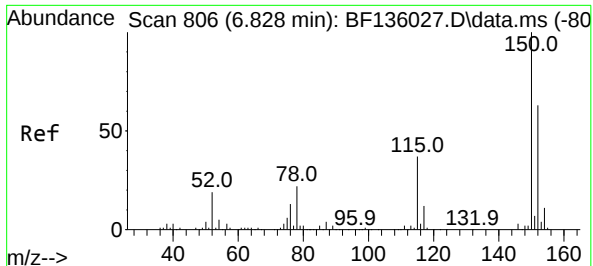
Instrument :
BNA_F
ClientSampleId :
M-4(50FT)(0-5)DL

Manual Integrations
APPROVED

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

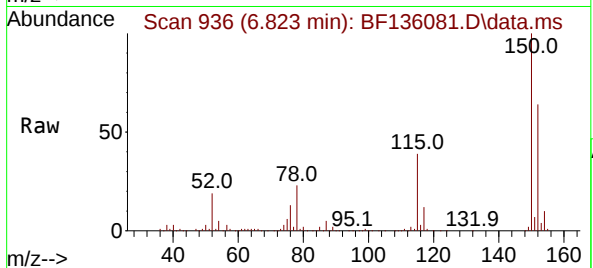
Quant Time: Nov 01 22:41:30 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF103023.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 31 01:13:02 2023
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.823 min Scan# 91
Delta R.T. -0.005 min
Lab File: BF136081.D
Acq: 01 Nov 2023 17:27

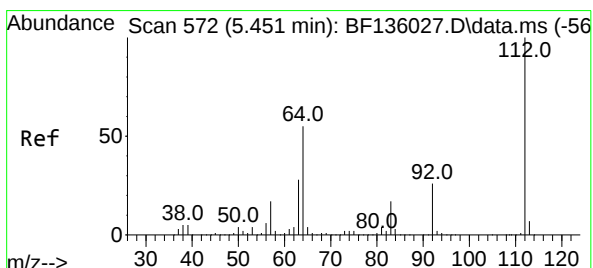
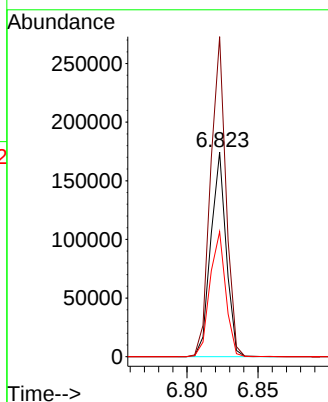
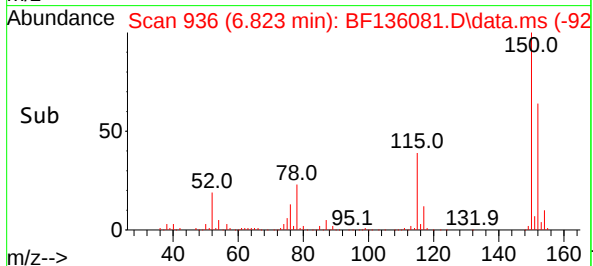
Instrument :
BNA_F
ClientSampleId :
M-4(50FT)(0-5)DL



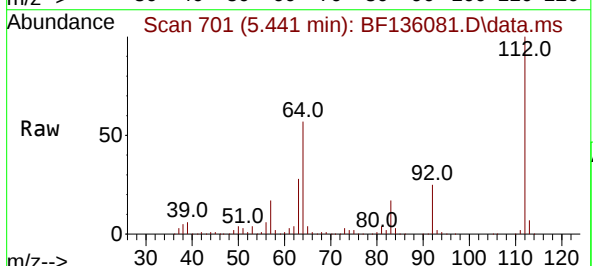
Tgt Ion:152 Resp: 131023
Ion Ratio Lower Upper
152 100
150 156.4 126.4 189.6
115 61.1 47.0 70.4

Manual Integrations
APPROVED

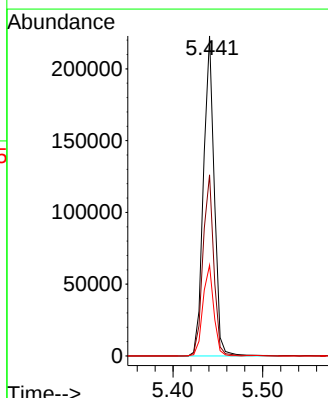
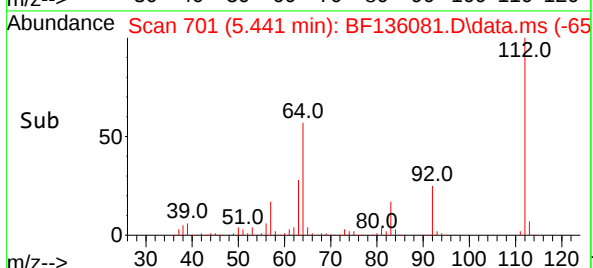
Reviewed By :Yogesh Patel 11/02/2023
Supervised By :mohammad ahmed 11/02/2023

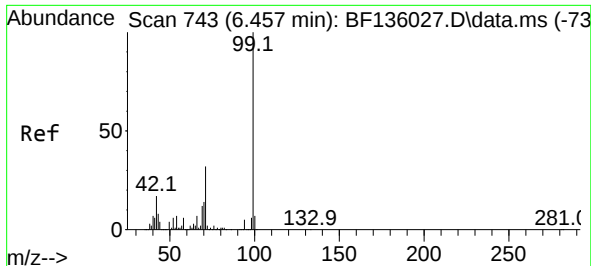


#5
2-Fluorophenol
Concen: 22.304 ng
RT: 5.441 min Scan# 701
Delta R.T. -0.010 min
Lab File: BF136081.D
Acq: 01 Nov 2023 17:27



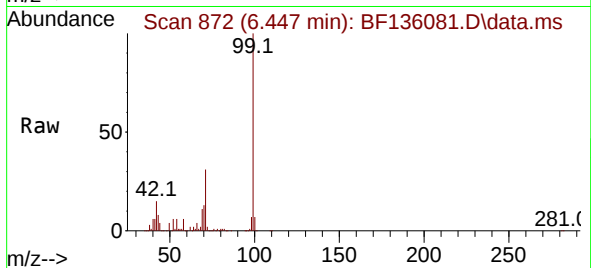
Tgt Ion:112 Resp: 185966
Ion Ratio Lower Upper
112 100
64 56.6 43.9 65.9
63 28.4 22.4 33.6





#7
Phenol-d6
Concen: 22.623 ng
RT: 6.447 min Scan# 81
Delta R.T. -0.011 min
Lab File: BF136081.D
Acq: 01 Nov 2023 17:27

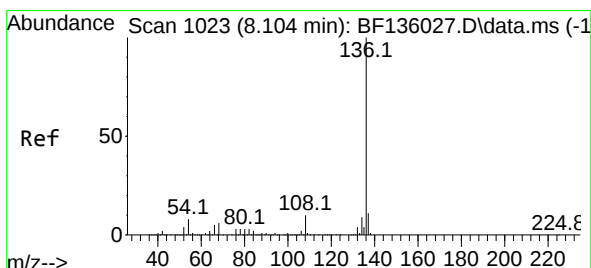
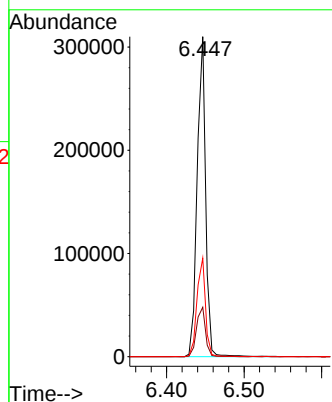
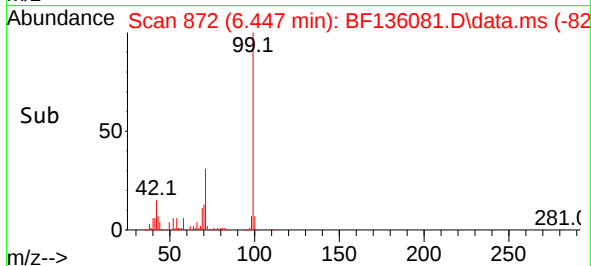
Instrument :
BNA_F
ClientSampleId :
M-4(50FT)(0-5)DL



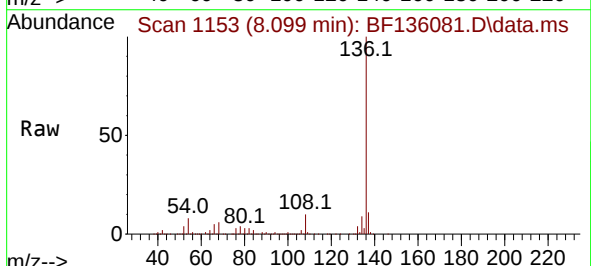
Tgt Ion: 99 Resp: 235010
Ion Ratio Lower Upper
99 100
42 15.4 13.7 20.5
71 30.8 25.9 38.9

Manual Integrations
APPROVED

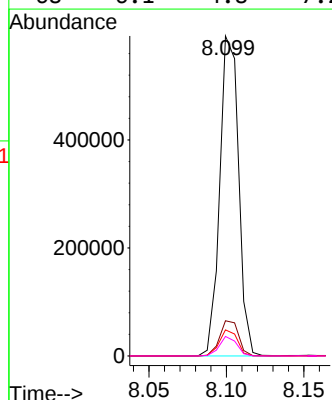
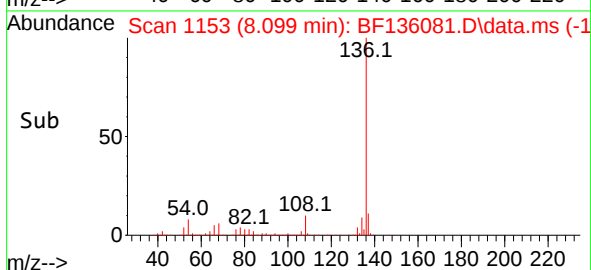
Reviewed By :Yogesh Patel 11/02/2023
Supervised By :mohammad ahmed 11/02/2023



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.099 min Scan# 1153
Delta R.T. -0.005 min
Lab File: BF136081.D
Acq: 01 Nov 2023 17:27



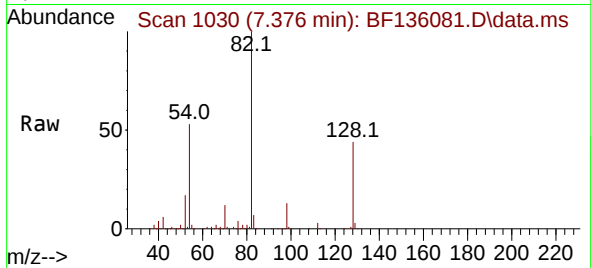
Tgt Ion:136 Resp: 502033
Ion Ratio Lower Upper
136 100
137 11.0 8.6 13.0
54 8.2 6.6 9.8
68 6.1 4.8 7.2





#23
Nitrobenzene-d5
Concen: 15.533 ng
RT: 7.376 min Scan# 1157
Delta R.T. -0.016 min
Lab File: BF136081.D
Acq: 01 Nov 2023 17:27

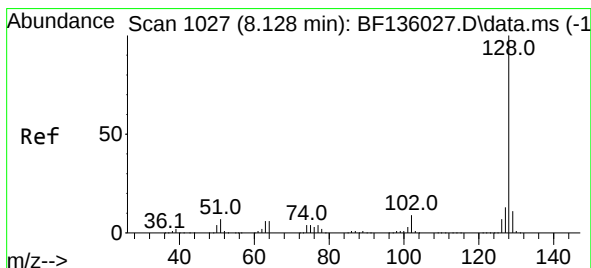
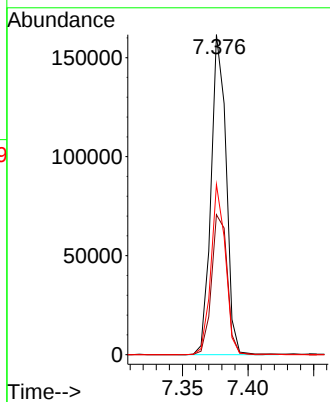
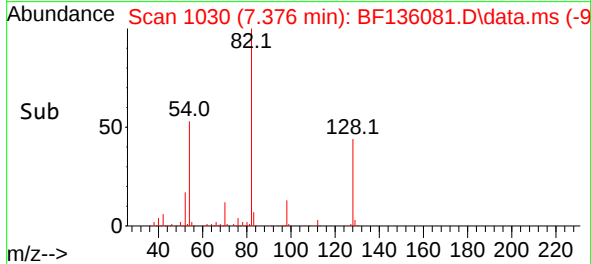
Instrument :
BNA_F
ClientSampleId :
M-4(50FT)(0-5)DL



Tgt Ion: 82 Resp: 129362
Ion Ratio Lower Upper
82 100
128 43.8 38.6 57.8
54 53.2 40.8 61.2

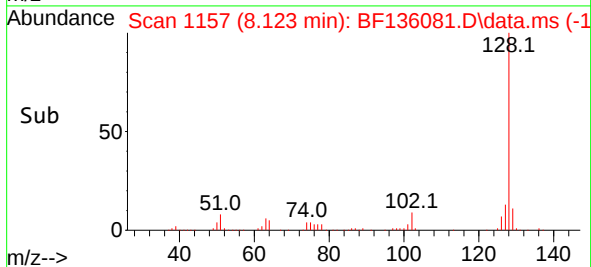
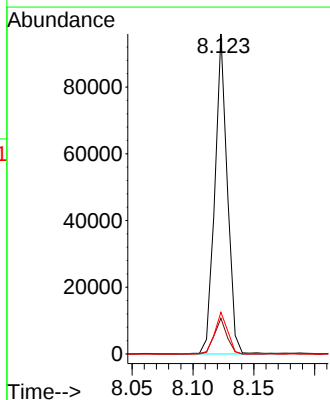
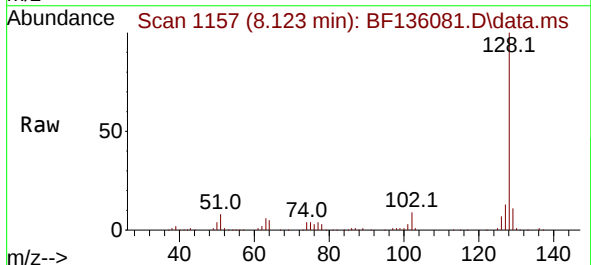
Manual Integrations
APPROVED

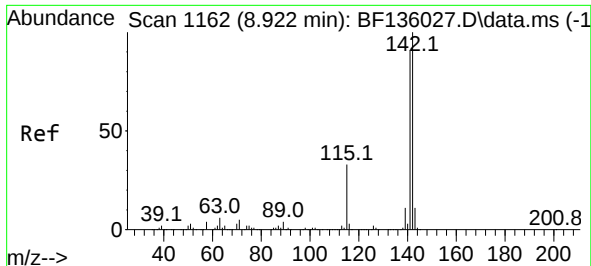
Reviewed By :Yogesh Patel 11/02/2023
Supervised By :mohammad ahmed 11/02/2023



#31
Naphthalene
Concen: 2.843 ng
RT: 8.123 min Scan# 1157
Delta R.T. -0.005 min
Lab File: BF136081.D
Acq: 01 Nov 2023 17:27

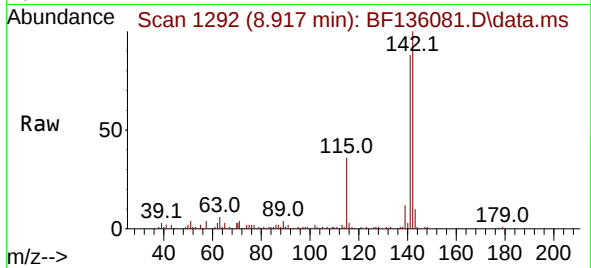
Tgt Ion:128 Resp: 68815
Ion Ratio Lower Upper
128 100
129 11.2 8.9 13.3
127 13.0 10.5 15.7





#38
1-Methylnaphthalene
Concen: 2.119 ng
RT: 8.917 min Scan# 1453
Delta R.T. -0.005 min
Lab File: BF136081.D
Acq: 01 Nov 2023 17:27

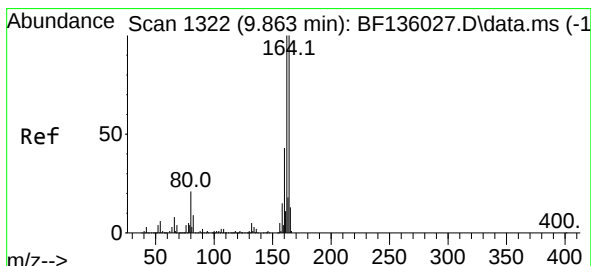
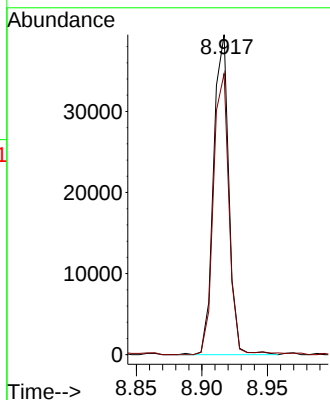
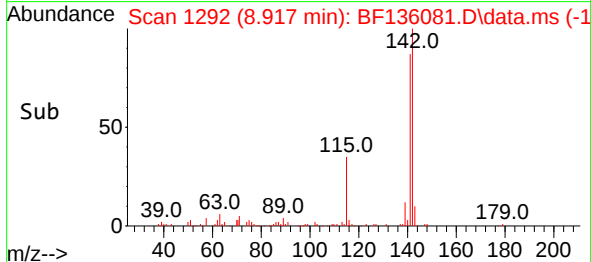
Instrument :
BNA_F
ClientSampleId :
M-4(50FT)(0-5)DL



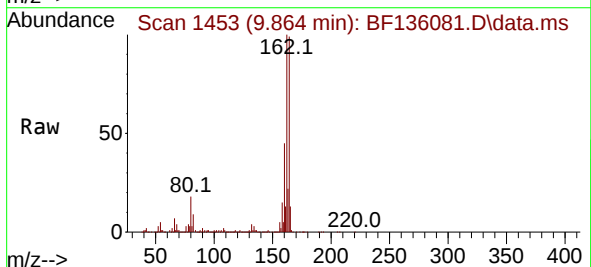
Tgt Ion:142 Resp: 32010
Ion Ratio Lower Upper
142 100
141 87.9 72.6 109.0

Manual Integrations
APPROVED

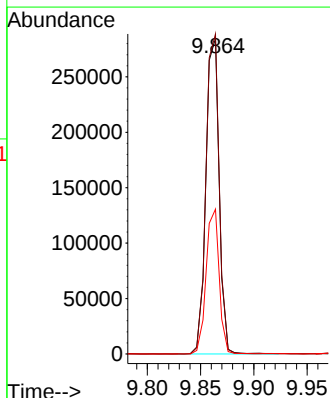
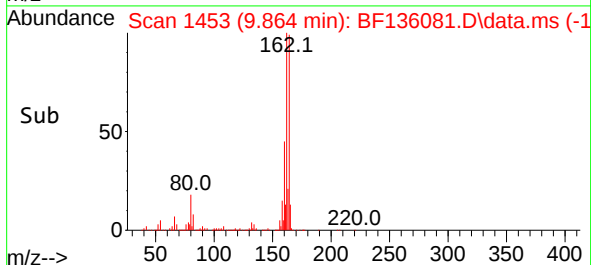
Reviewed By :Yogesh Patel 11/02/2023
Supervised By :mohammad ahmed 11/02/2023

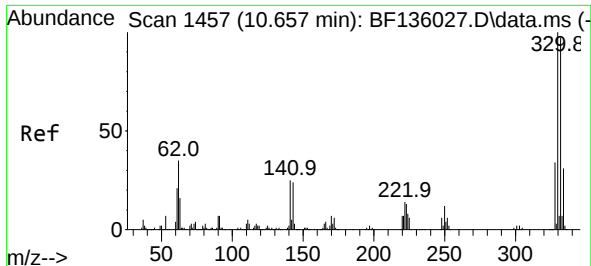


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.864 min Scan# 1453
Delta R.T. 0.001 min
Lab File: BF136081.D
Acq: 01 Nov 2023 17:27



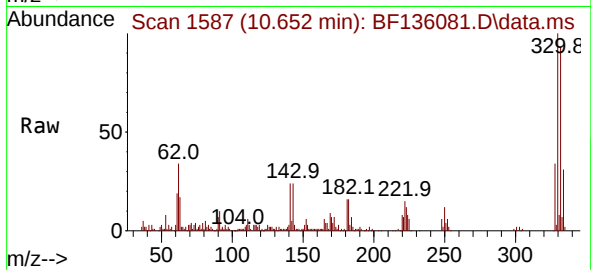
Tgt Ion:164 Resp: 246978
Ion Ratio Lower Upper
164 100
162 101.4 80.1 120.1
160 45.9 34.8 52.2





#42
2,4,6-Tribromophenol
Concen: 19.633 ng
RT: 10.652 min Scan# 11
Delta R.T. -0.005 min
Lab File: BF136081.D
Acq: 01 Nov 2023 17:27

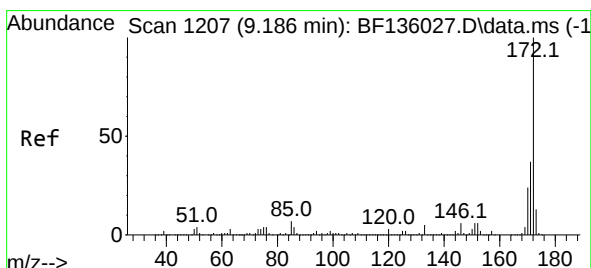
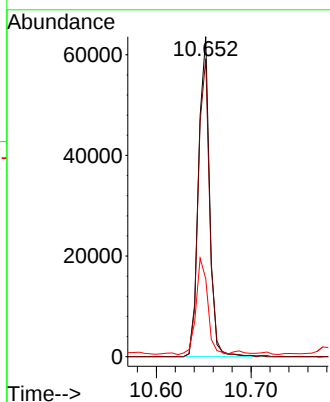
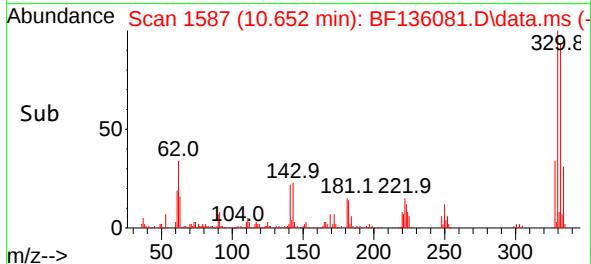
Instrument :
BNA_F
ClientSampleId :
M-4(50FT)(0-5)DL



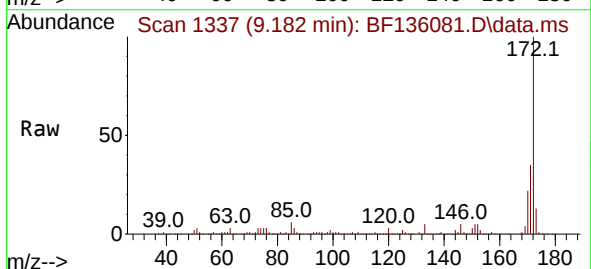
Tgt Ion: 330 Resp: 5175
Ion Ratio Lower Upper
330 100
332 95.4 76.9 115.3
141 31.8 23.2 34.8

Manual Integrations
APPROVED

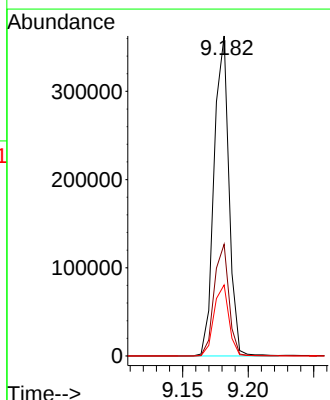
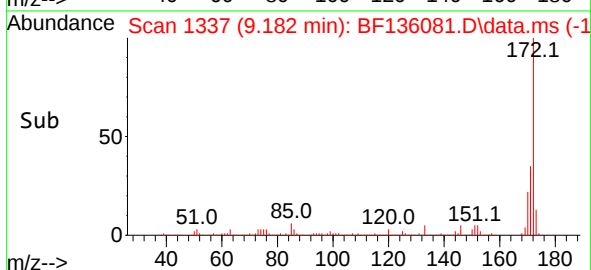
Reviewed By : Yogesh Patel 11/02/2023
Supervised By : mohammad ahmed 11/02/2023

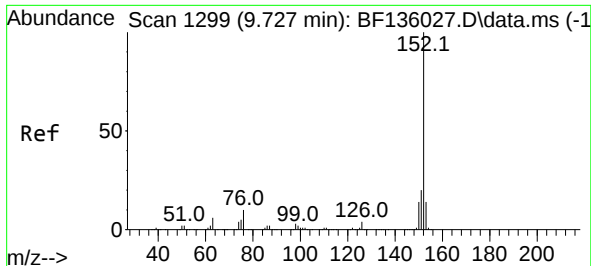


#45
2-Fluorobiphenyl
Concen: 18.477 ng
RT: 9.182 min Scan# 1337
Delta R.T. -0.005 min
Lab File: BF136081.D
Acq: 01 Nov 2023 17:27



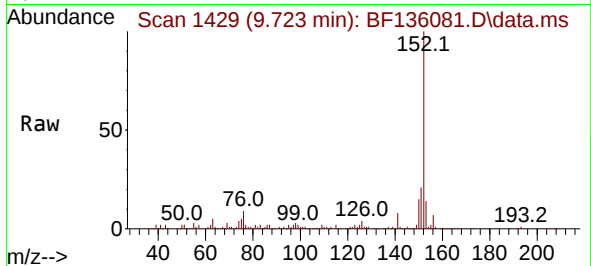
Tgt Ion: 172 Resp: 286271
Ion Ratio Lower Upper
172 100
171 34.9 29.4 44.0
170 22.2 19.3 28.9





#49
Acenaphthylene
Concen: 4.222 ng
RT: 9.723 min Scan# 1429
Delta R.T. -0.005 min
Lab File: BF136081.D
Acq: 01 Nov 2023 17:27

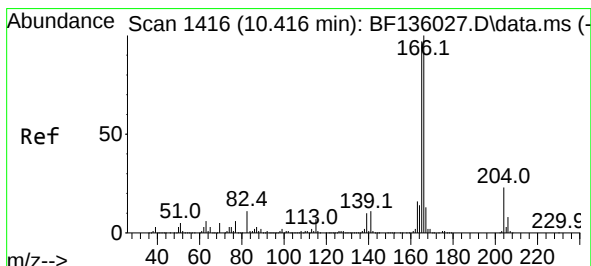
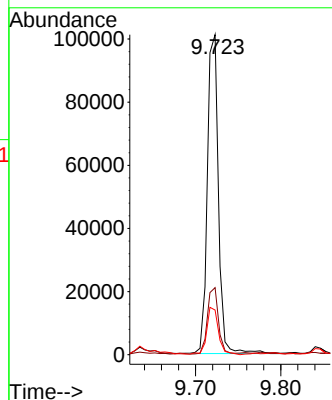
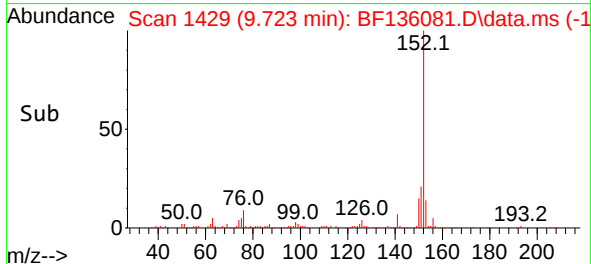
Instrument :
BNA_F
ClientSampleId :
M-4(50FT)(0-5)DL



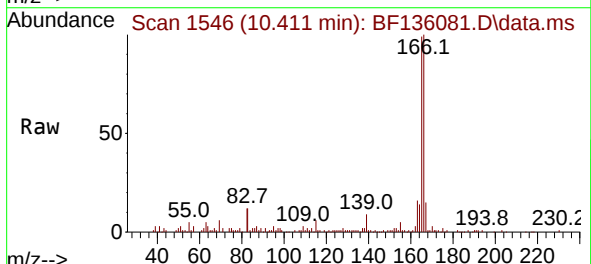
Tgt Ion:152 Resp: 9142
Ion Ratio Lower Upper
152 100
151 21.0 16.1 24.1
153 14.0 11.4 17.2

Manual Integrations
APPROVED

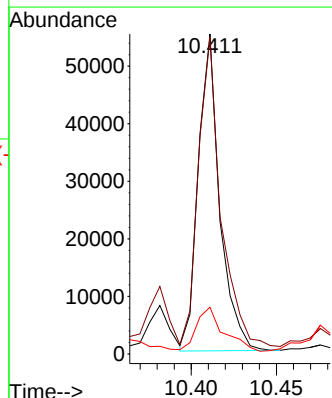
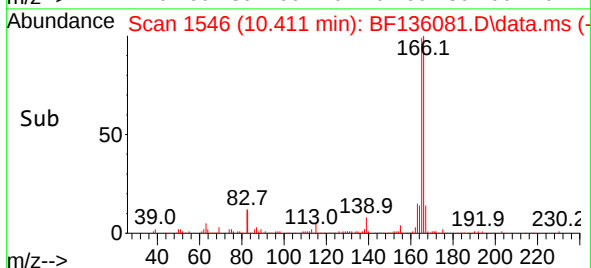
Reviewed By :Yogesh Patel 11/02/2023
Supervised By :mohammad ahmed 11/02/2023

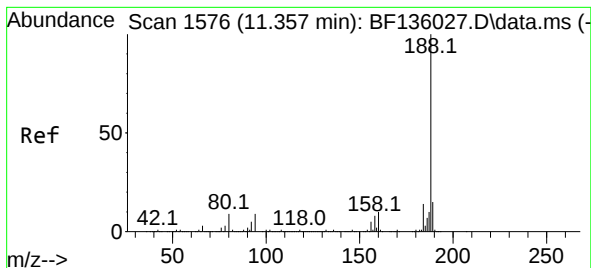


#58
Fluorene
Concen: 3.206 ng
RT: 10.411 min Scan# 1546
Delta R.T. -0.005 min
Lab File: BF136081.D
Acq: 01 Nov 2023 17:27



Tgt Ion:166 Resp: 48180
Ion Ratio Lower Upper
166 100
165 99.0 77.7 116.5
167 14.6 10.6 16.0





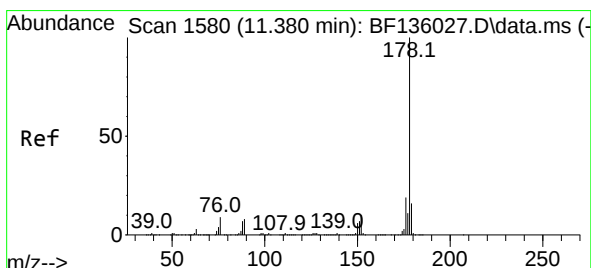
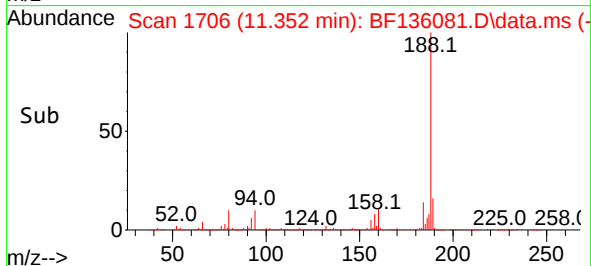
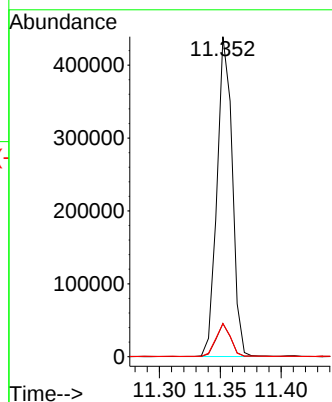
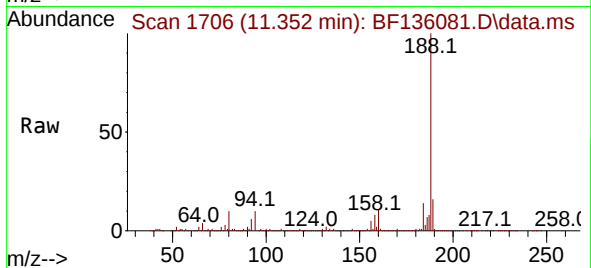
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.352 min Scan# 1710
Delta R.T. -0.005 min
Lab File: BF136081.D
Acq: 01 Nov 2023 17:27

Instrument :
BNA_F
ClientSampleId :
M-4(50FT)(0-5)DL

Tgt Ion:188 Resp: 38256
Ion Ratio Lower Upper
188 100
94 10.4 7.2 10.8
80 10.4 7.4 11.0

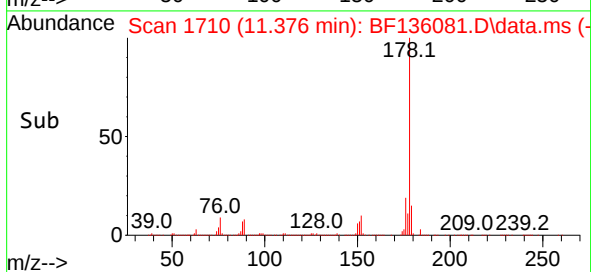
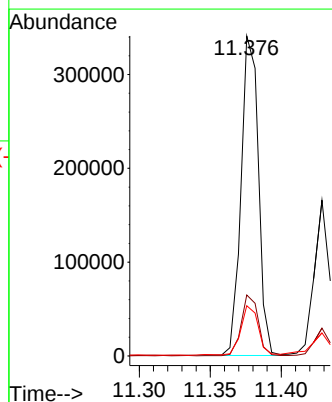
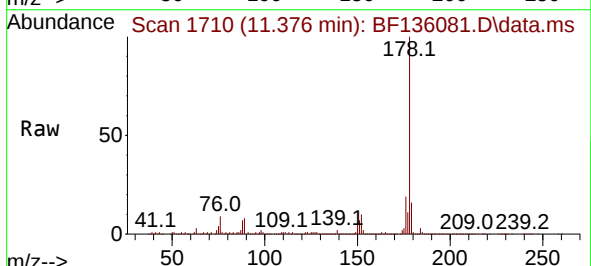
Manual Integrations
APPROVED

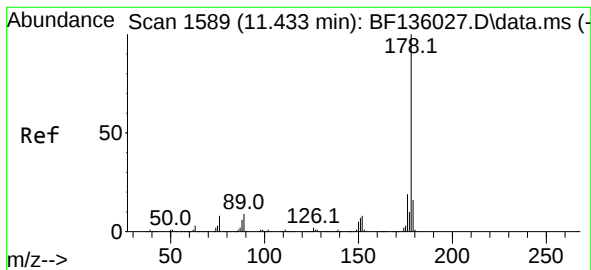
Reviewed By :Yogesh Patel 11/02/2023
Supervised By :mohammad ahmed 11/02/2023



#71
Phenanthrene
Concen: 15.100 ng
RT: 11.376 min Scan# 1710
Delta R.T. -0.005 min
Lab File: BF136081.D
Acq: 01 Nov 2023 17:27

Tgt Ion:178 Resp: 290860
Ion Ratio Lower Upper
178 100
176 19.0 15.5 23.3
179 15.7 12.9 19.3





#72

Anthracene

Concen: 6.305 ng

RT: 11.429 min Scan# 1

Delta R.T. -0.005 min

Lab File: BF136081.D

Acq: 01 Nov 2023 17:27

Instrument :

BNA_F

ClientSampleId :

M-4(50FT)(0-5)DL

Tgt Ion:178 Resp: 12444

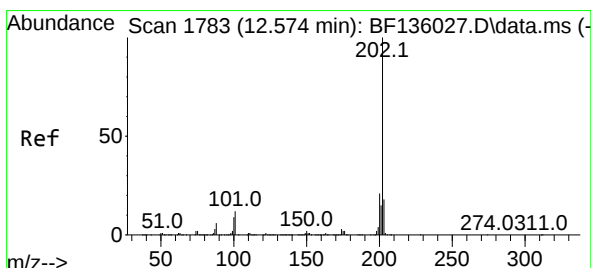
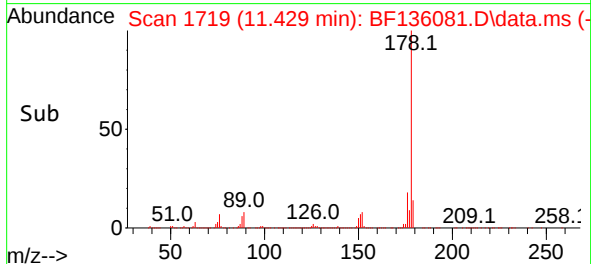
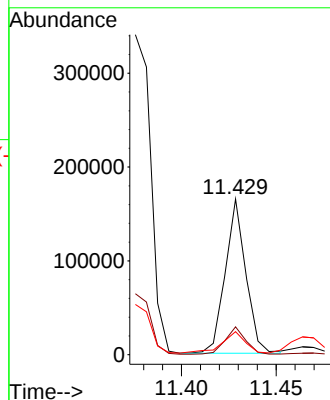
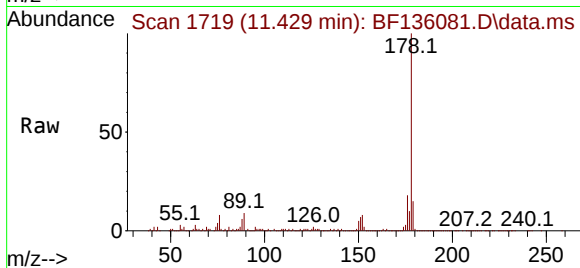
Ion	Ratio	Lower	Upper
178	100		
176	17.8	15.0	22.4
179	14.8	12.6	18.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/02/2023

Supervised By :mohammad ahmed 11/02/2023



#75

Fluoranthene

Concen: 22.616 ng

RT: 12.576 min Scan# 1914

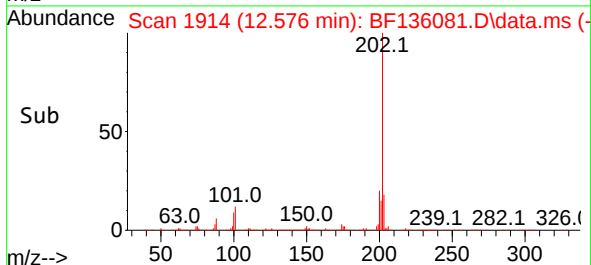
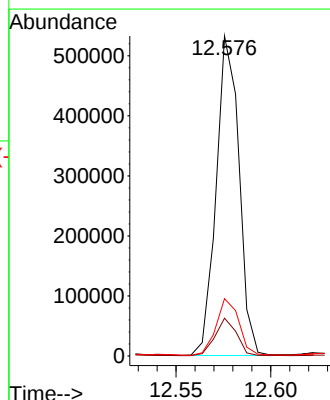
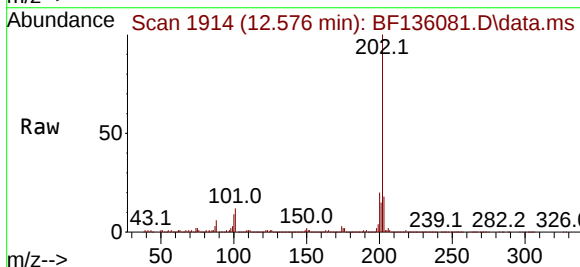
Delta R.T. 0.001 min

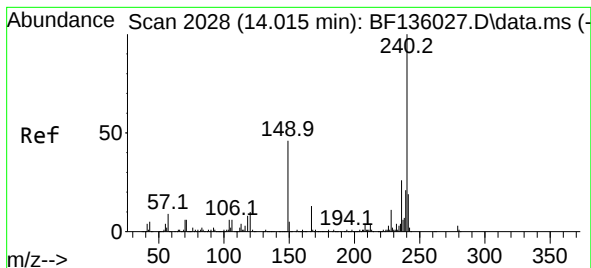
Lab File: BF136081.D

Acq: 01 Nov 2023 17:27

Tgt Ion:202 Resp: 447536

Ion	Ratio	Lower	Upper
202	100		
101	11.8	0.0	31.8
203	17.9	0.0	37.9





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.011 min Scan# 2158

Delta R.T. -0.005 min

Lab File: BF136081.D

Acq: 01 Nov 2023 17:27

Instrument :

BNA_F

ClientSampleId :

M-4(50FT)(0-5)DL

Tgt Ion:240 Resp: 269290

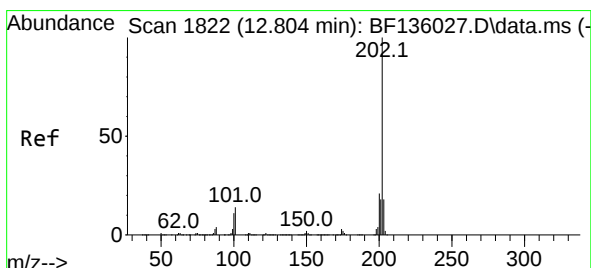
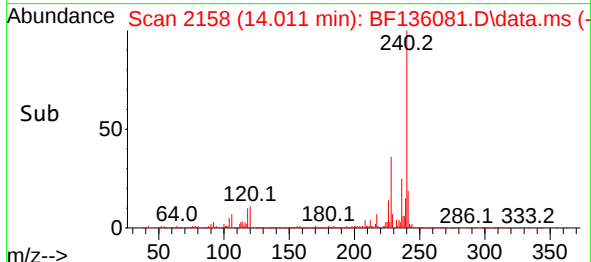
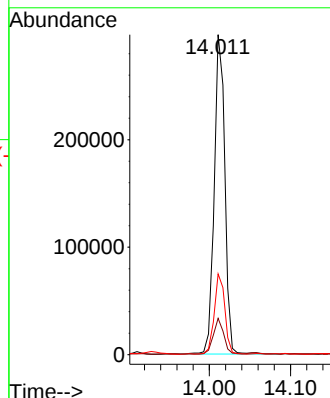
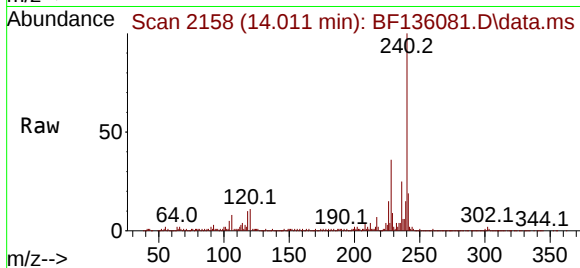
Ion	Ratio	Lower	Upper
240	100		
120	11.4	7.6	11.4
236	25.3	20.6	31.0

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/02/2023

Supervised By :mohammad ahmed 11/02/2023



#78

Pyrene

Concen: 25.727 ng

RT: 12.805 min Scan# 1953

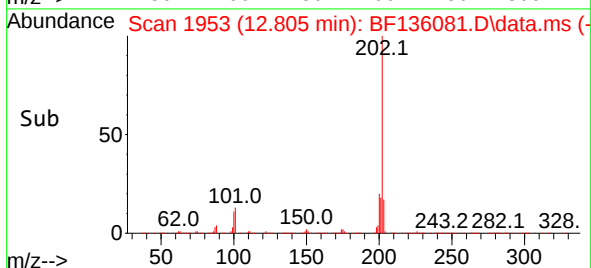
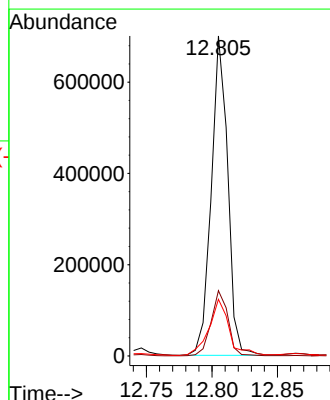
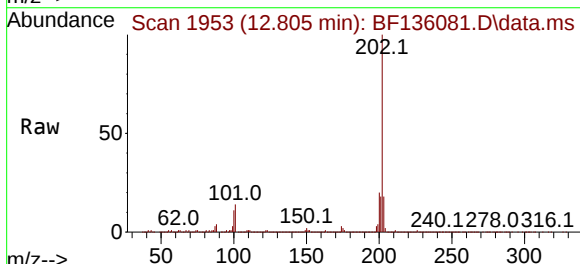
Delta R.T. 0.001 min

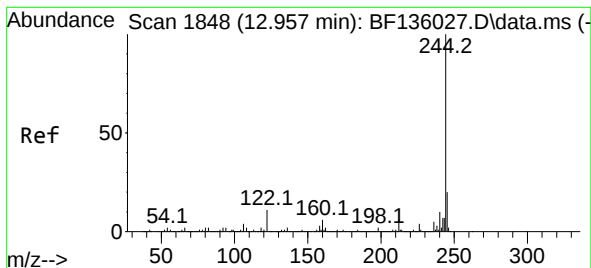
Lab File: BF136081.D

Acq: 01 Nov 2023 17:27

Tgt Ion:202 Resp: 610817

Ion	Ratio	Lower	Upper
202	100		
200	20.4	17.0	25.4
203	17.7	14.4	21.6





#79

Terphenyl-d14

Concen: 14.065 ng

RT: 12.952 min Scan# 11

Delta R.T. -0.005 min

Lab File: BF136081.D

Acq: 01 Nov 2023 17:27

Instrument :

BNA_F

ClientSampleId :

M-4(50FT)(0-5)DL

Tgt Ion:244 Resp: 24372

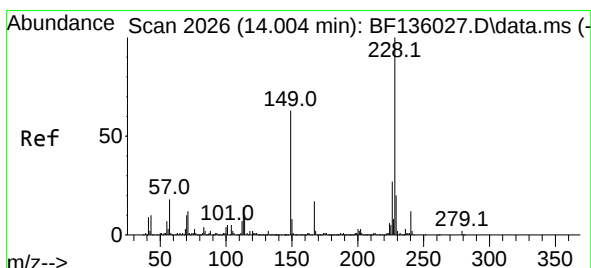
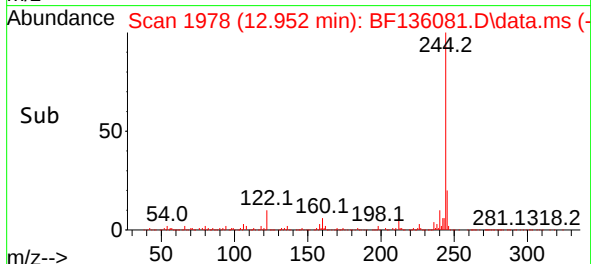
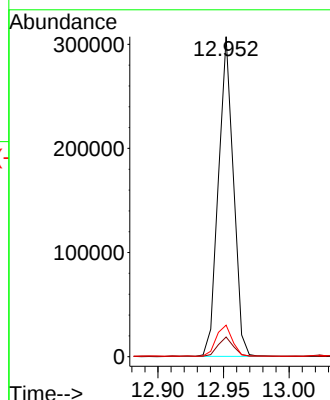
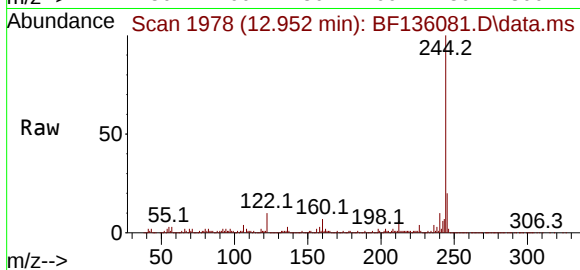
Ion	Ratio	Lower	Upper
244	100		
212	6.2	5.1	7.7
122	9.8	8.6	12.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/02/2023

Supervised By :mohammad ahmed 11/02/2023



#81

Benzo(a)anthracene

Concen: 15.592 ng m

RT: 14.005 min Scan# 2157

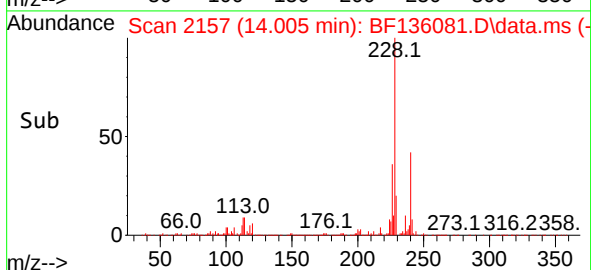
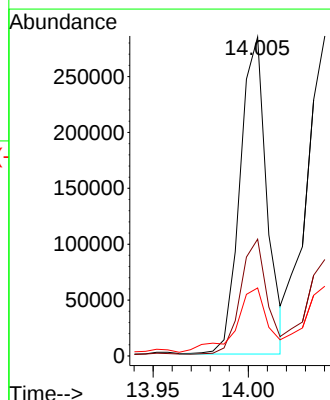
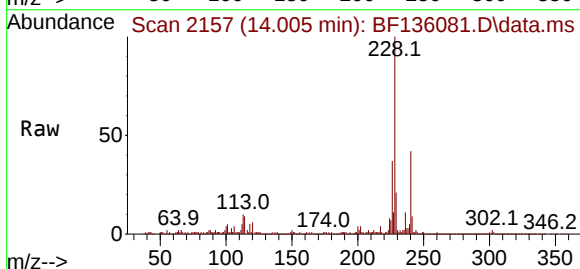
Delta R.T. 0.001 min

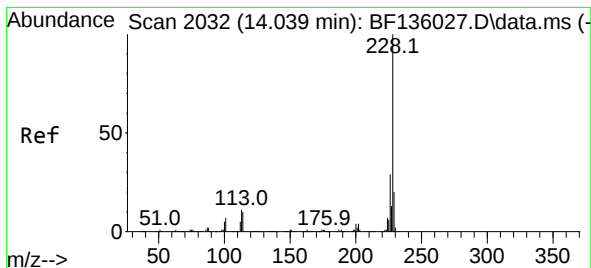
Lab File: BF136081.D

Acq: 01 Nov 2023 17:27

Tgt Ion:228 Resp: 277983

Ion	Ratio	Lower	Upper
228	100		
226	36.6	21.5	32.3
229	21.3	15.8	23.6





#83

Chrysene

Concen: 15.742 ng

RT: 14.040 min Scan# 2163

Delta R.T. 0.001 min

Lab File: BF136081.D

Acq: 01 Nov 2023 17:27

Instrument :

BNA_F

ClientSampleId :

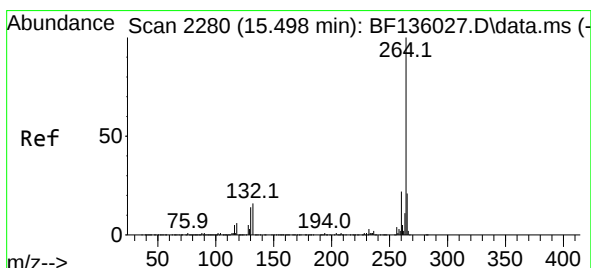
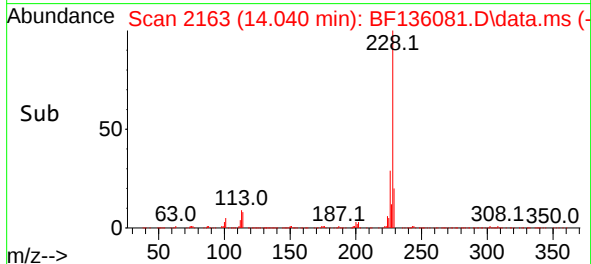
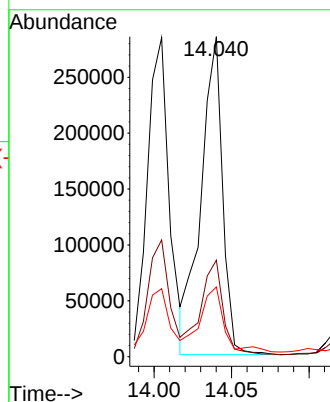
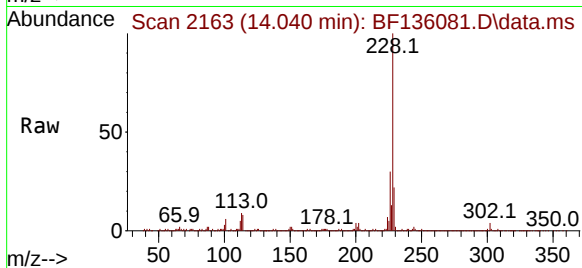
M-4(50FT)(0-5)DL

Tgt Ion:228 Resp: 27639
 Ion Ratio Lower Upper
 228 100
 226 30.1 23.5 35.3
 229 21.8 16.0 24.0

Manual Integrations

APPROVED

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



#86

Perylene-d12

Concen: 20.000 ng

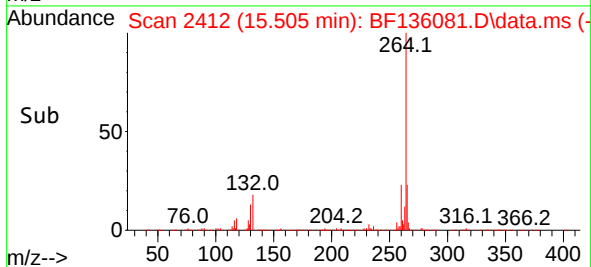
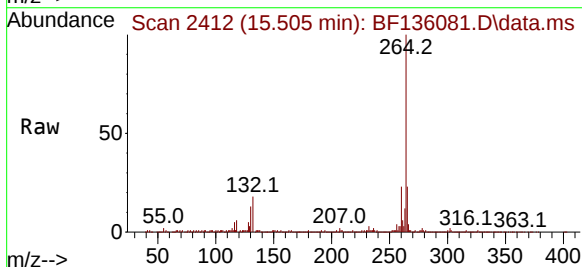
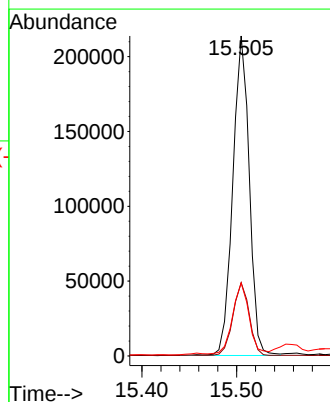
RT: 15.505 min Scan# 2412

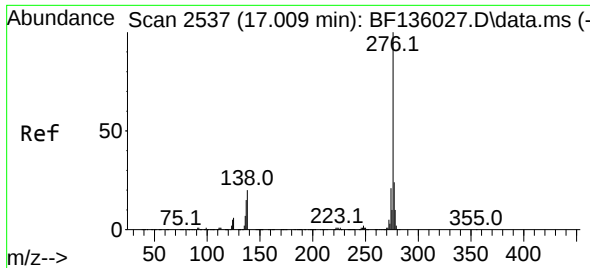
Delta R.T. 0.007 min

Lab File: BF136081.D

Acq: 01 Nov 2023 17:27

Tgt Ion:264 Resp: 258338
 Ion Ratio Lower Upper
 264 100
 260 22.9 17.9 26.9
 265 22.8 16.8 25.2





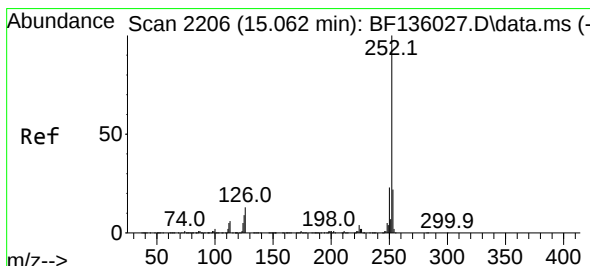
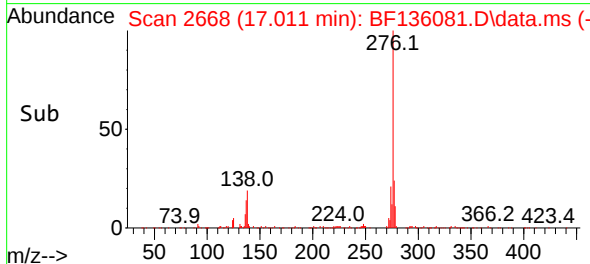
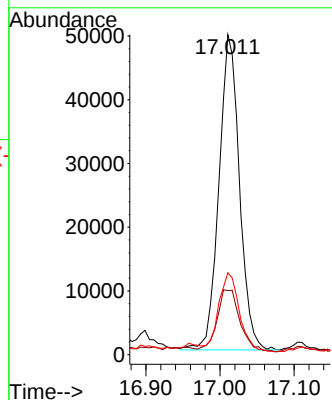
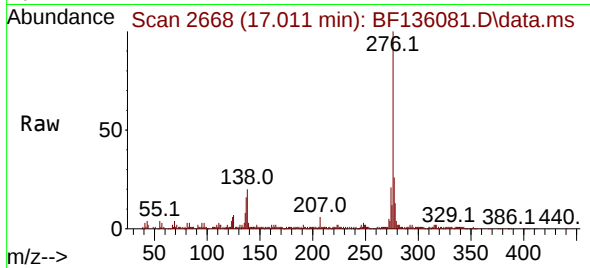
#87
Indeno(1,2,3-cd)pyrene
Concen: 5.625 ng
RT: 17.011 min Scan# 20
Delta R.T. 0.001 min
Lab File: BF136081.D
Acq: 01 Nov 2023 17:27

Instrument :
BNA_F
ClientSampleId :
M-4(50FT)(0-5)DL

Tgt Ion:276 Resp: 94970
Ion Ratio Lower Upper
276 100
138 22.1 20.4 30.6
277 25.8 20.2 30.2

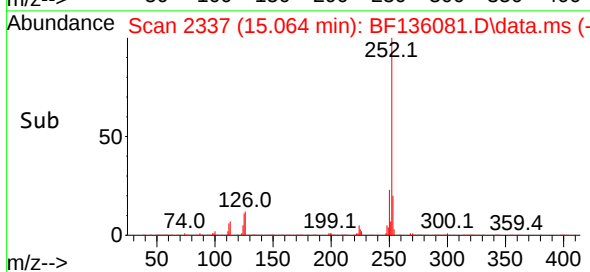
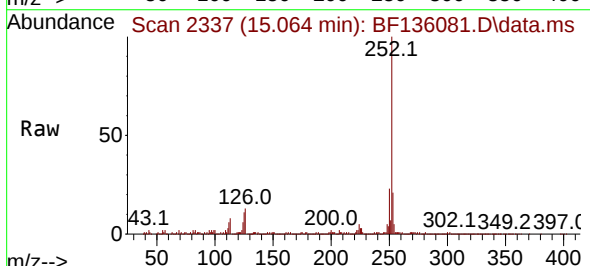
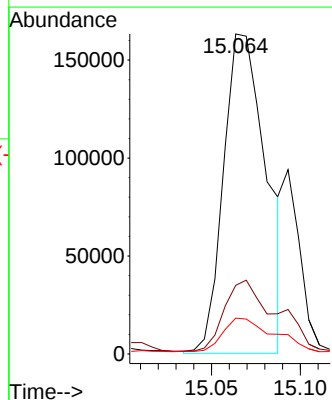
Manual Integrations
APPROVED

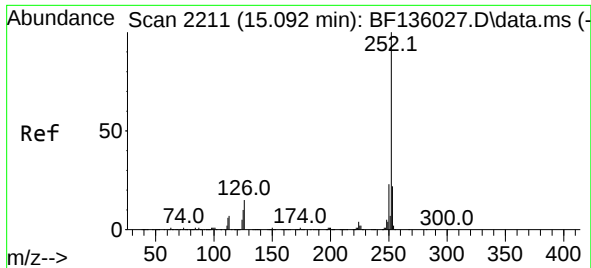
Reviewed By :Yogesh Patel 11/02/2023
Supervised By :mohammad ahmed 11/02/2023



#88
Benzo(b)fluoranthene
Concen: 17.846 ng m
RT: 15.064 min Scan# 2337
Delta R.T. 0.001 min
Lab File: BF136081.D
Acq: 01 Nov 2023 17:27

Tgt Ion:252 Resp: 272795
Ion Ratio Lower Upper
252 100
253 21.4 17.7 26.5
125 11.2 7.5 11.3





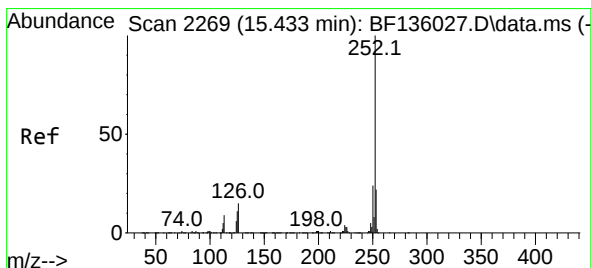
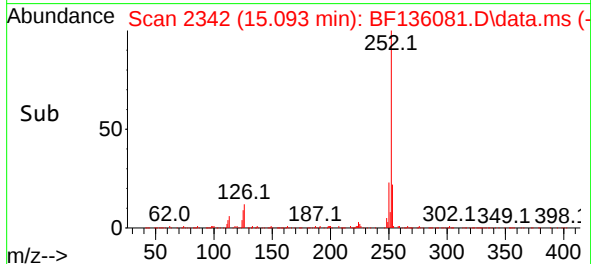
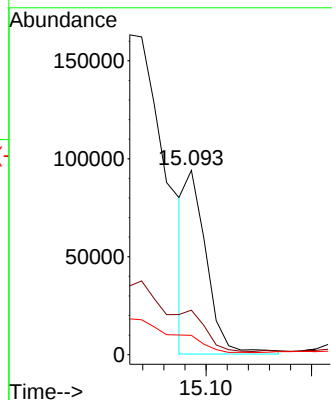
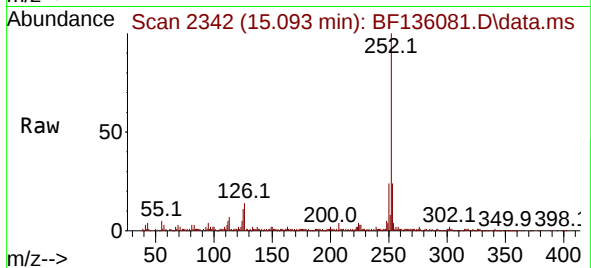
#89
Benzo(k)fluoranthene
Concen: 4.253 ng m
RT: 15.093 min Scan# 21
Delta R.T. 0.001 min
Lab File: BF136081.D
Acq: 01 Nov 2023 17:27

Instrument :
BNA_F
ClientSampleId :
M-4(50FT)(0-5)DL

Tgt Ion:252 Resp: 6433
Ion Ratio Lower Upper
252 100
253 24.1 17.4 26.0
125 10.5 8.0 12.0

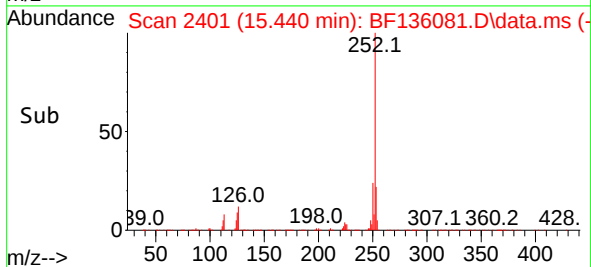
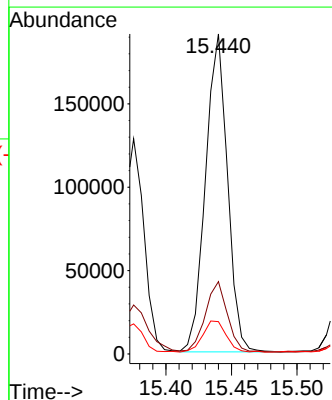
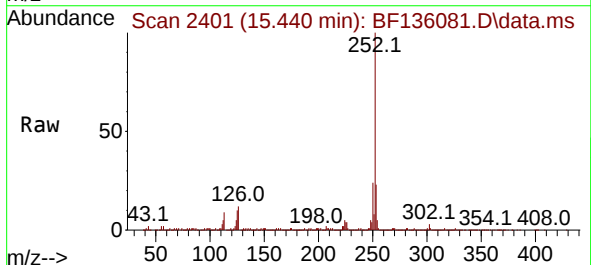
Manual Integrations
APPROVED

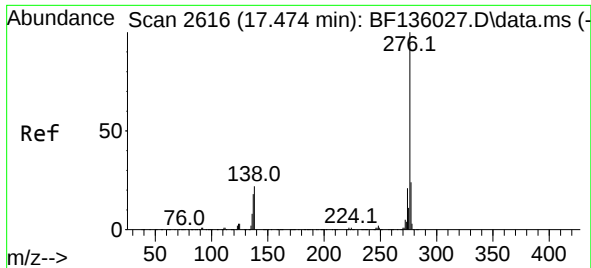
Reviewed By :Yogesh Patel 11/02/2023
Supervised By :mohammad ahmed 11/02/2023



#90
Benzo(a)pyrene
Concen: 15.654 ng
RT: 15.440 min Scan# 2401
Delta R.T. 0.007 min
Lab File: BF136081.D
Acq: 01 Nov 2023 17:27

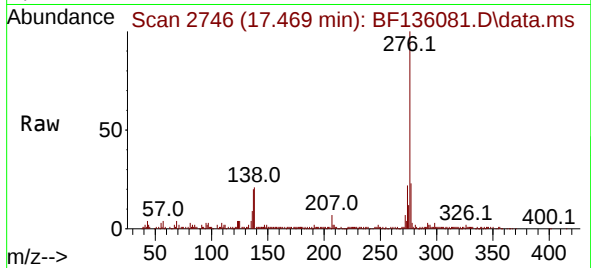
Tgt Ion:252 Resp: 222332
Ion Ratio Lower Upper
252 100
253 22.6 17.3 25.9
125 10.1 9.0 13.6





#92
 Benzo(g,h,i)perylene
 Concen: 8.870 ng
 RT: 17.469 min Scan# 21
 Delta R.T. -0.005 min
 Lab File: BF136081.D
 Acq: 01 Nov 2023 17:27

Instrument :
 BNA_F
 ClientSampleId :
 M-4(50FT)(0-5)DL



Tgt Ion:276	Resp:	100114
Ion Ratio	Lower	Upper
276	100	
277	23.4	19.0 28.4
138	20.7	17.4 26.2

Manual Integrations
 APPROVED

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

