

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF120423\
 Data File : BF136384.D
 Acq On : 04 Dec 2023 16:23
 Operator : CG\JU
 Sample : 05577-01DL 20X
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 EO-03-112923DL

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 12/05/2023
 Supervised By :mohammad ahmed 12/05/2023

Quant Time: Dec 04 17:02:59 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112723.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Dec 04 13:30:53 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.798	152	132754	20.000	ng	0.00
21) Naphthalene-d8	8.081	136	515929	20.000	ng	0.00
39) Acenaphthene-d10	9.833	164	229984	20.000	ng	0.00
64) Phenanthrene-d10	11.328	188	363878	20.000	ng	0.00
76) Chrysene-d12	13.980	240	287211	20.000	ng	0.00
86) Perylene-d12	15.468	264	268568	20.000	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.428	112	50061	5.249	ng	-0.01
7) Phenol-d6	6.428	99	62385	5.231	ng	-0.02
23) Nitrobenzene-d5	7.357	82	35325	3.618	ng	-0.01
42) 2,4,6-Tribromophenol	10.622	330	13347	4.747	ng	-0.01
45) 2-Fluorobiphenyl	9.151	172	79905	4.438	ng	-0.01
79) Terphenyl-d14	12.916	244	72564	2.914	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	8.098	128	549651	18.954	ng	# 96
37) 2-Methylnaphthalene	8.792	142	122686	6.744	ng	91
38) 1-Methylnaphthalene	8.886	142	70195	3.956	ng	88
52) Acenaphthene	9.869	154	118551	8.346	ng	89
55) Dibenzofuran	10.039	168	213575	10.105	ng	# 97
58) Fluorene	10.386	166	265277	16.001	ng	95
71) Phenanthrene	11.357	178	1462559	71.513	ng	99
72) Anthracene	11.404	178	441343	21.519	ng	98
73) Carbazole	11.557	167	120666	6.918	ng	99
75) Fluoranthene	12.551	202	1437572	69.241	ng	96
78) Pyrene	12.780	202	1147351	36.476	ng	97
81) Benzo(a)anthracene	13.974	228	618289	28.983	ng	98
83) Chrysene	14.010	228	501285m	24.337	ng	
87) Indeno(1,2,3-cd)pyrene	16.968	276	193499	11.780	ng	98
88) Benzo(b)fluoranthene	15.033	252	618697m	32.835	ng	
89) Benzo(k)fluoranthene	15.057	252	162598m	9.086	ng	
90) Benzo(a)pyrene	15.404	252	412268	26.765	ng	95
91) Dibenzo(a,h)anthracene	16.980	278	45530	5.379	ng	# 82
92) Benzo(g,h,i)perylene	17.427	276	163953	11.640	ng	99

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

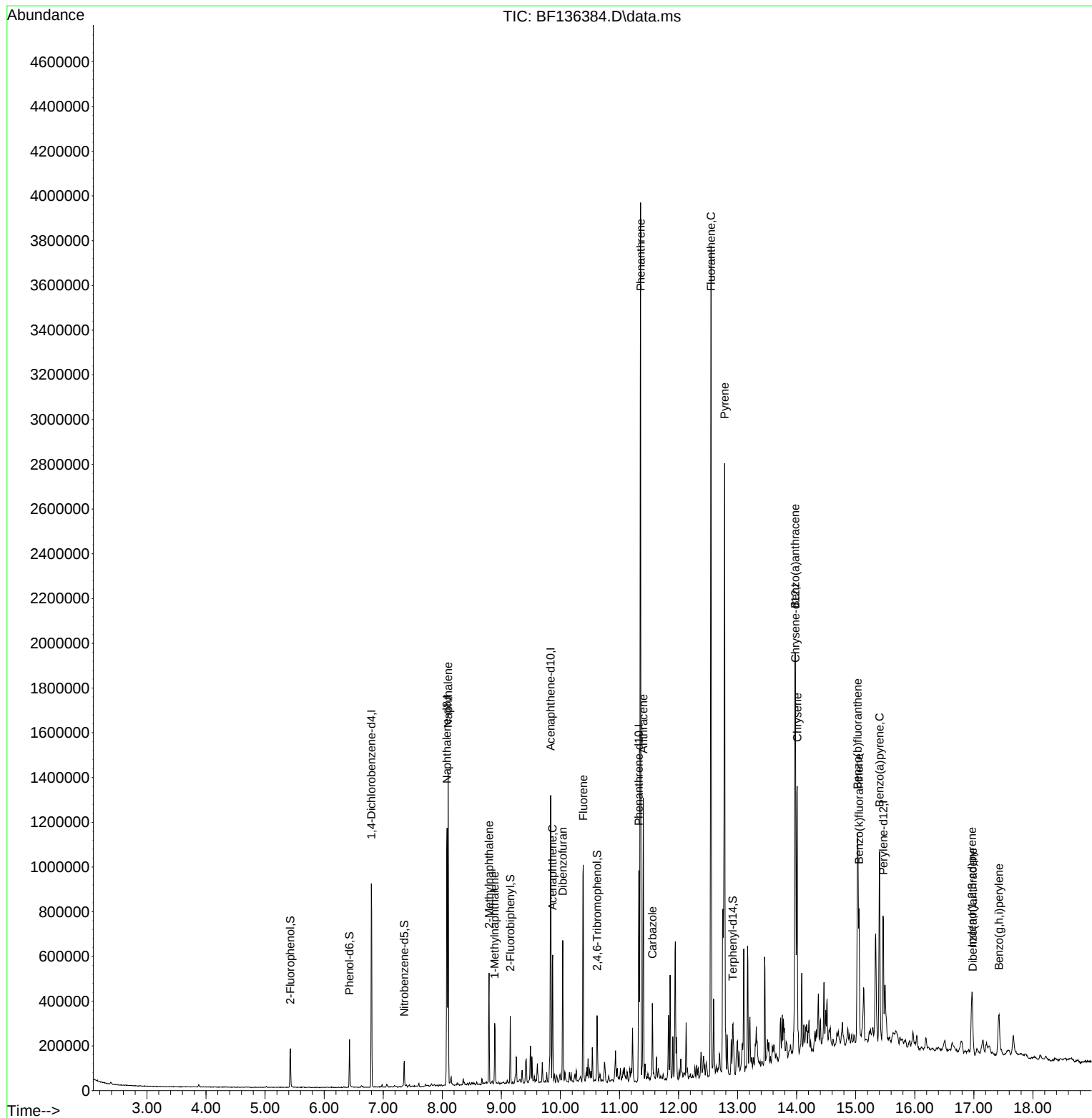
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF120423\
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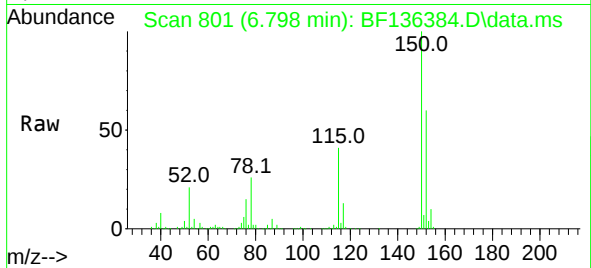
Reviewed By :Yogesh Patel 12/05/2023
Supervised By :mohammad ahmed 12/05/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.798 min Scan# 803
Delta R.T. -0.006 min
Lab File: BF136384.D
Acq: 04 Dec 2023 16:23

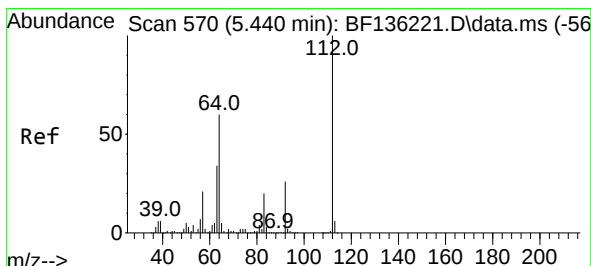
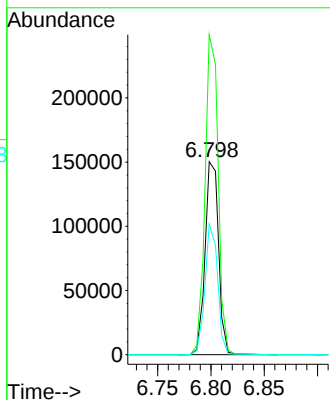
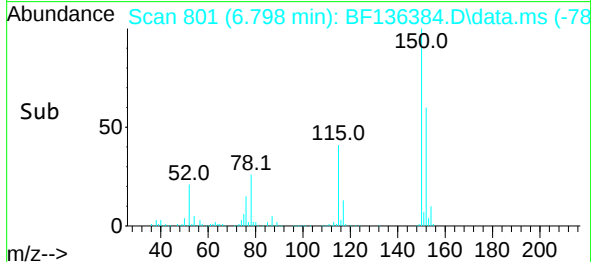
Instrument :
BNA_F
ClientSampleId :
EO-03-112923DL



Tgt Ion:152 Resp: 132754
Ion Ratio Lower Upper
152 100
150 165.8 137.8 206.8
115 67.9 52.7 79.1

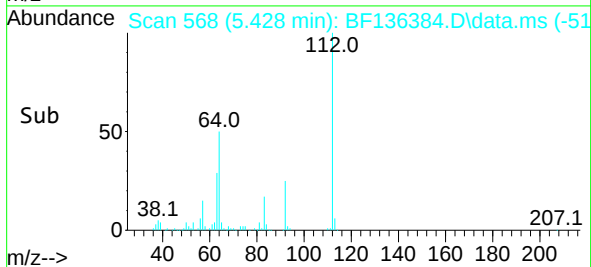
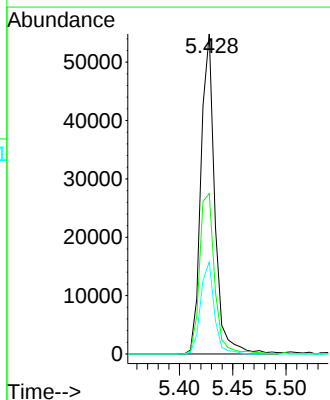
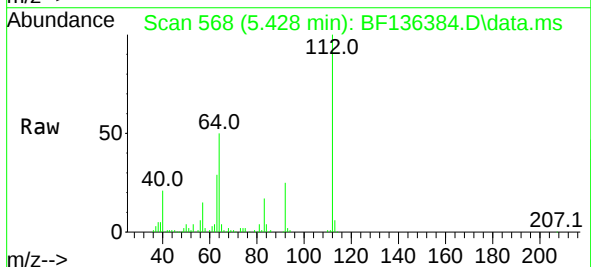
Manual Integrations
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Reviewed By :Yogesh Patel 12/05/2023
Supervised By :mohammad ahmed 12/05/2023



#5
2-Fluorophenol
Concen: 5.249 ng
RT: 5.428 min Scan# 568
Delta R.T. -0.012 min
Lab File: BF136384.D
Acq: 04 Dec 2023 16:23

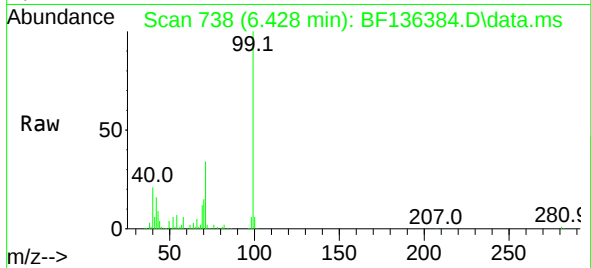
Tgt Ion:112 Resp: 50061
Ion Ratio Lower Upper
112 100
64 50.1 48.2 72.4
63 28.8 27.0 40.6





#7
Phenol-d6
Concen: 5.231 ng
RT: 6.428 min Scan# 71
Delta R.T. -0.017 min
Lab File: BF136384.D
Acq: 04 Dec 2023 16:23

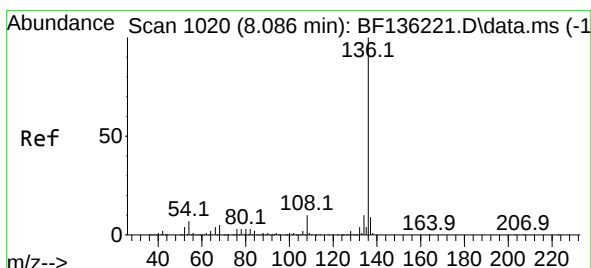
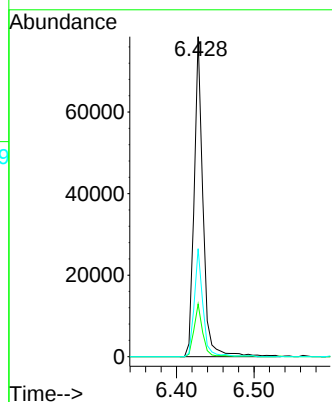
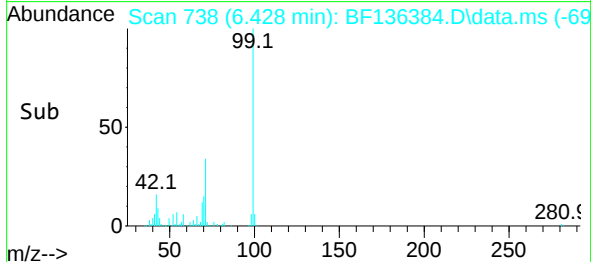
Instrument :
BNA_F
ClientSampleId :
EO-03-112923DL



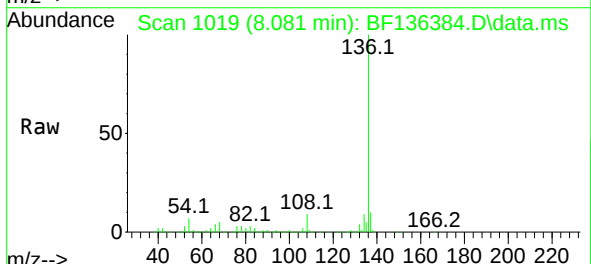
Tgt Ion: 99 Resp: 62385
Ion Ratio Lower Upper
99 100
42 16.5 15.0 22.6
71 33.7 28.9 43.3

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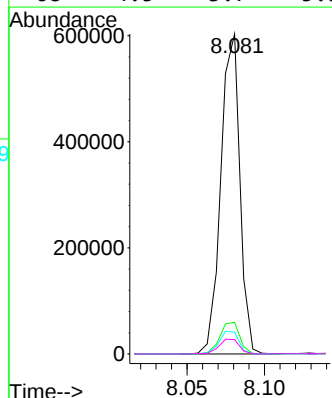
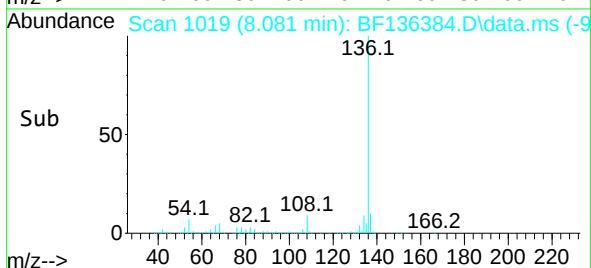
Reviewed By :Yogesh Patel 12/05/2023
Supervised By :mohammad ahmed 12/05/2023



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.081 min Scan# 1019
Delta R.T. 0.000 min
Lab File: BF136384.D
Acq: 04 Dec 2023 16:23



Tgt Ion:136 Resp: 515929
Ion Ratio Lower Upper
136 100
137 9.9 7.4 11.2
54 6.8 5.5 8.3
68 4.5 3.7 5.5





#23

Nitrobenzene-d5

Concen: 3.618 ng

RT: 7.357 min Scan# 899

Delta R.T. -0.012 min

Lab File: BF136384.D

Acq: 04 Dec 2023 16:23

Instrument :

BNA_F

ClientSampleId :

EO-03-112923DL

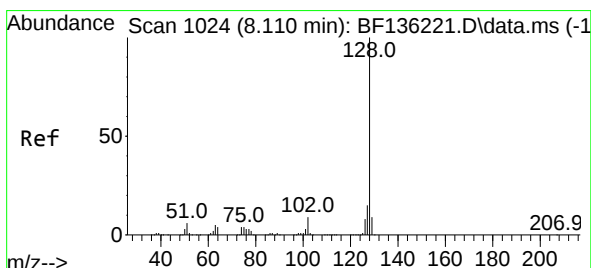
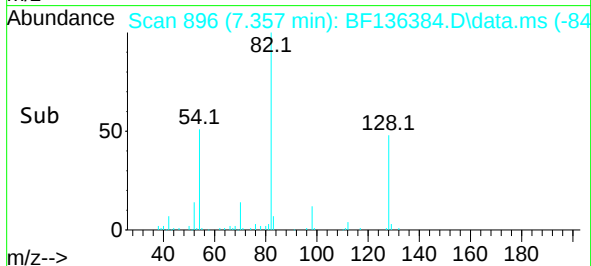
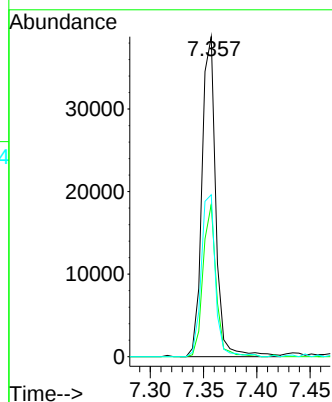
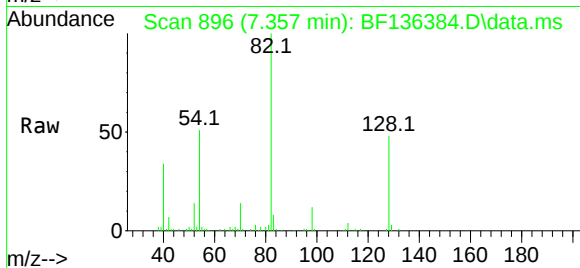
Tgt Ion:	82	Resp:	3532
Ion Ratio	Lower	Upper	
82	100		
128	47.6	33.4	50.2
54	50.6	41.7	62.5

Manual Integrations

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Supervised By :mohammad ahmed 12/05/2023



#31

Naphthalene

Concen: 18.954 ng

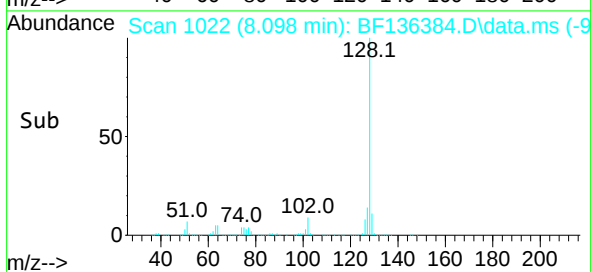
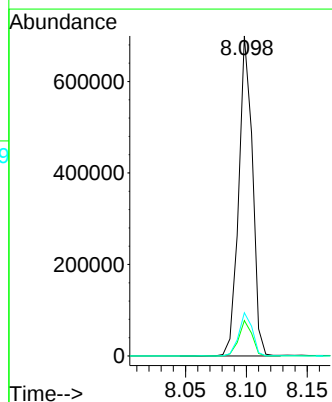
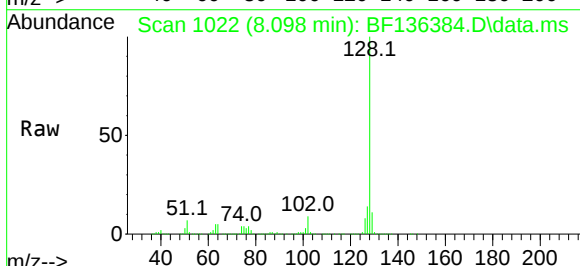
RT: 8.098 min Scan# 1022

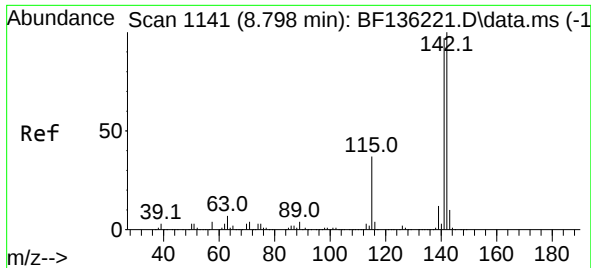
Delta R.T. -0.006 min

Lab File: BF136384.D

Acq: 04 Dec 2023 16:23

Tgt Ion:	128	Resp:	549651
Ion Ratio	Lower	Upper	
128	100		
129	11.1	7.3	10.9
127	13.5	11.8	17.6





#37

2-Methylnaphthalene

Concen: 6.744 ng

RT: 8.792 min Scan# 1141

Delta R.T. 0.000 min

Lab File: BF136384.D

Acq: 04 Dec 2023 16:23

Instrument :

BNA_F

ClientSampleId :

EO-03-112923DL

Tgt Ion:142 Resp: 122680

Ion Ratio Lower Upper

142 100

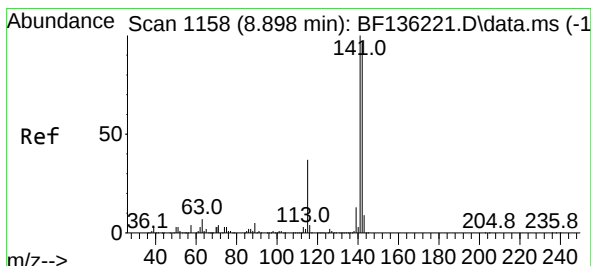
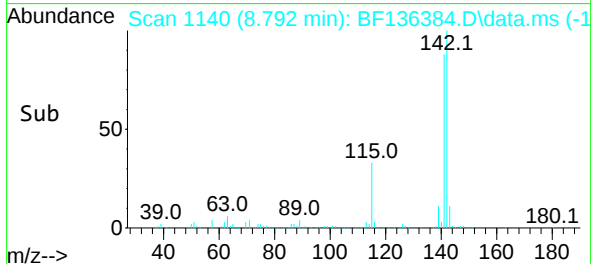
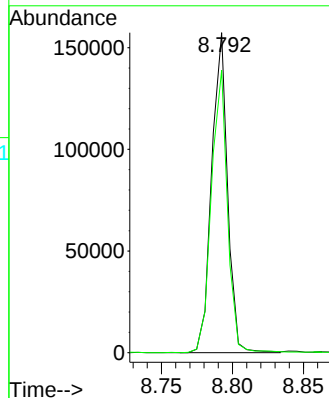
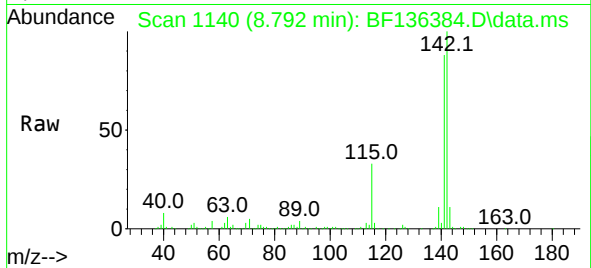
141 88.2 77.8 116.8

Manual Integrations

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Supervised By :mohammad ahmed 12/05/2023



#38

1-Methylnaphthalene

Concen: 3.956 ng

RT: 8.886 min Scan# 1156

Delta R.T. -0.006 min

Lab File: BF136384.D

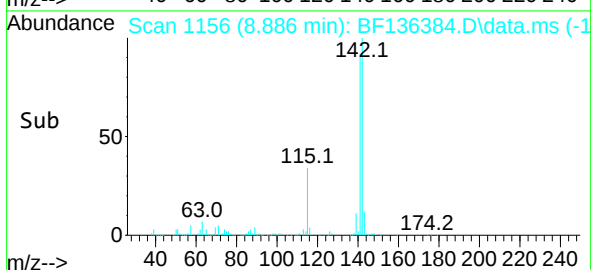
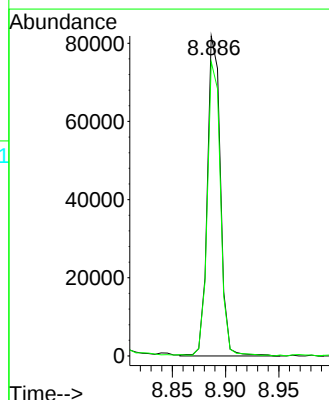
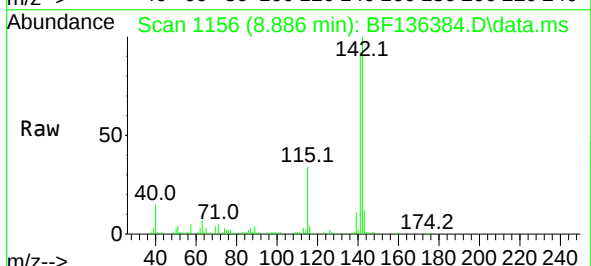
Acq: 04 Dec 2023 16:23

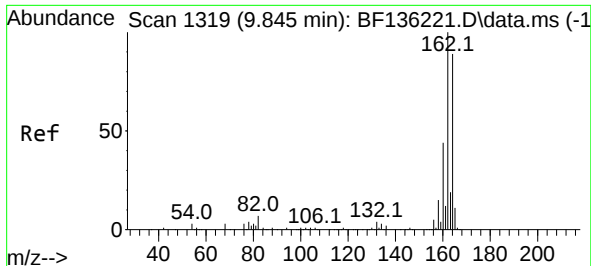
Tgt Ion:142 Resp: 70195

Ion Ratio Lower Upper

142 100

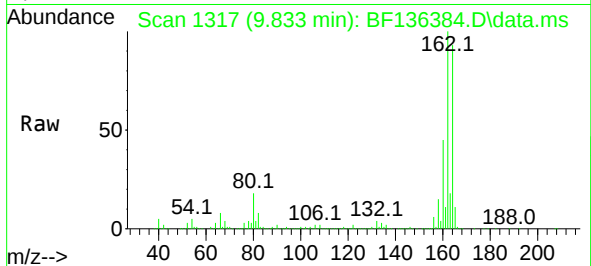
141 91.9 83.8 125.6





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.833 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF136384.D
Acq: 04 Dec 2023 16:23

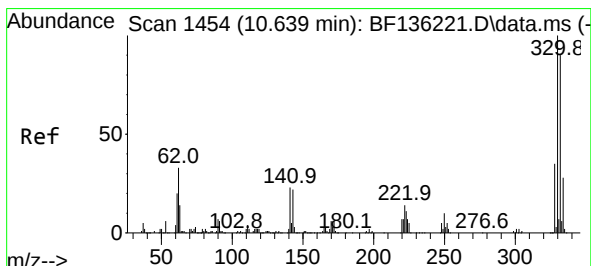
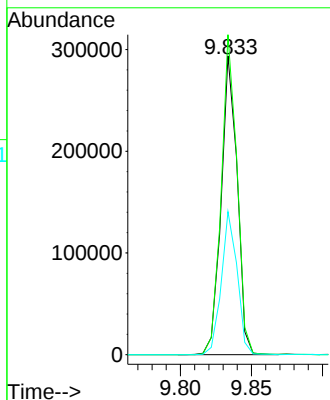
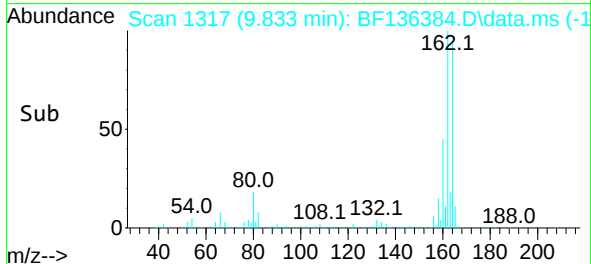
Instrument :
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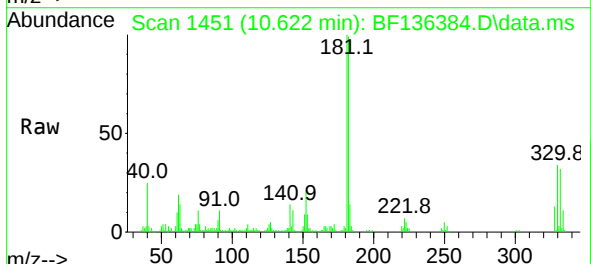
Tgt Ion:164 Resp: 229984
Ion Ratio Lower Upper
164 100
162 107.1 89.5 134.3
160 47.8 39.6 59.4

Manual Integrations
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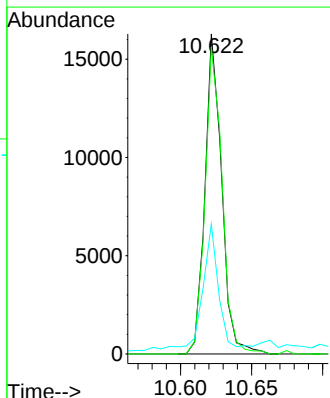
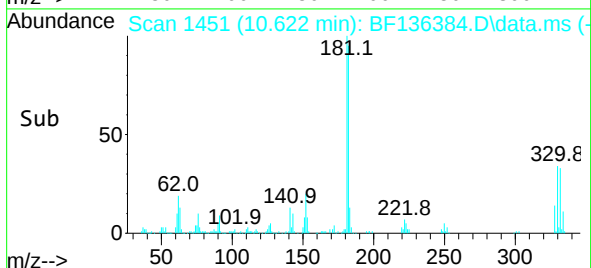
Reviewed By :Yogesh Patel 12/05/2023
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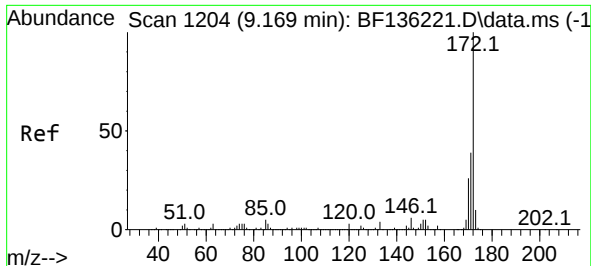


#42
2,4,6-Tribromophenol
Concen: 4.747 ng
RT: 10.622 min Scan# 1451
Delta R.T. -0.012 min
Lab File: BF136384.D
Acq: 04 Dec 2023 16:23



Tgt Ion:330 Resp: 13347
Ion Ratio Lower Upper
330 100
332 98.4 73.0 109.6
141 38.9 24.2 36.2#





#45

2-Fluorobiphenyl

Concen: 4.438 ng

RT: 9.151 min Scan# 11

Delta R.T. -0.012 min

Lab File: BF136384.D

Acq: 04 Dec 2023 16:23

Instrument :

BNA_F

ClientSampleId :

EO-03-112923DL

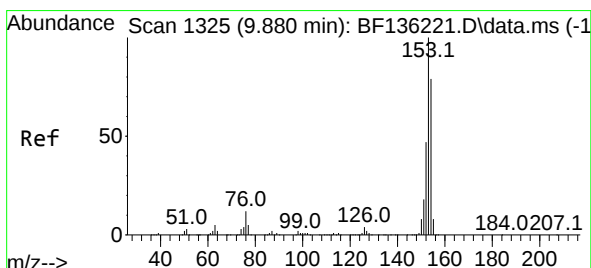
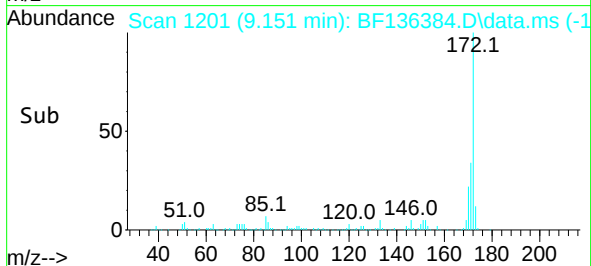
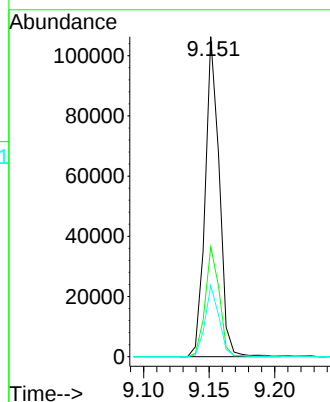
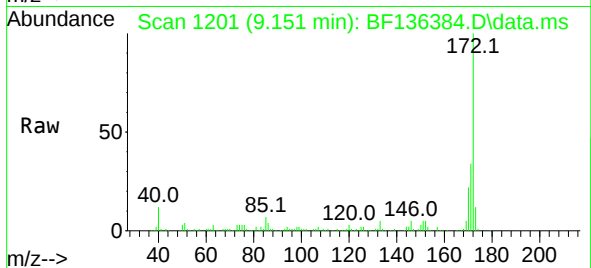
Tgt Ion:172	Resp:	7990
Ion Ratio	Lower	Upper
172	100	
171	34.3	31.5 47.3
170	22.2	20.8 31.2

Manual Integrations

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#52

Acenaphthene

Concen: 8.346 ng

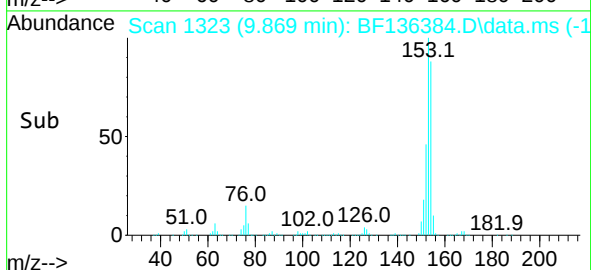
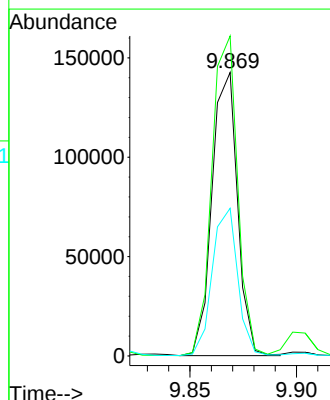
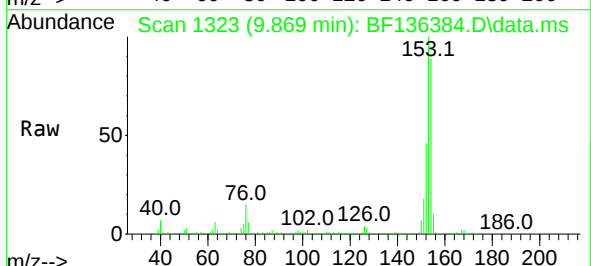
RT: 9.869 min Scan# 1323

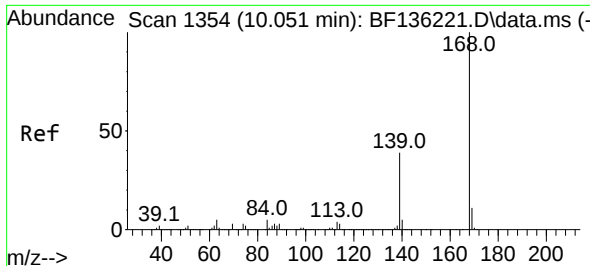
Delta R.T. -0.006 min

Lab File: BF136384.D

Acq: 04 Dec 2023 16:23

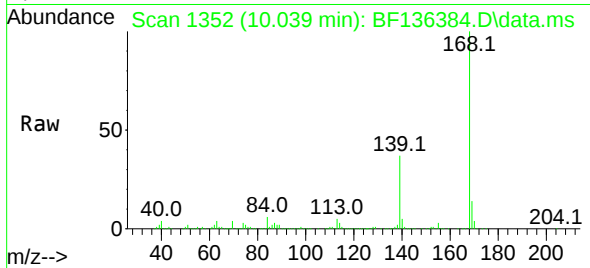
Tgt Ion:154	Resp:	118551
Ion Ratio	Lower	Upper
154	100	
153	112.9	100.8 151.2
152	52.1	47.0 70.6





#55
Dibenzenofuran
Concen: 10.105 ng
RT: 10.039 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF136384.D
Acq: 04 Dec 2023 16:23

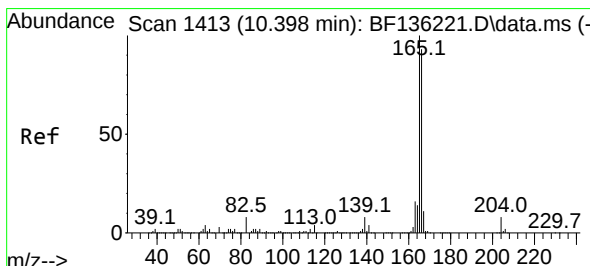
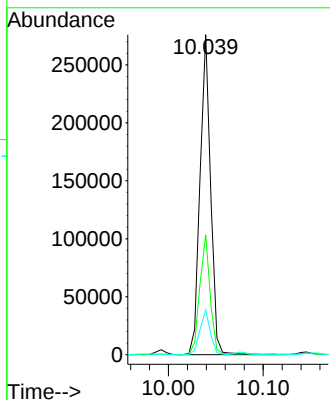
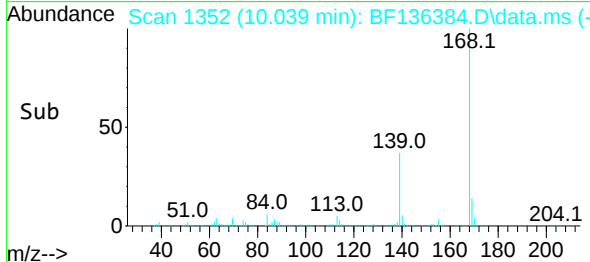
Instrument :
BNA_F
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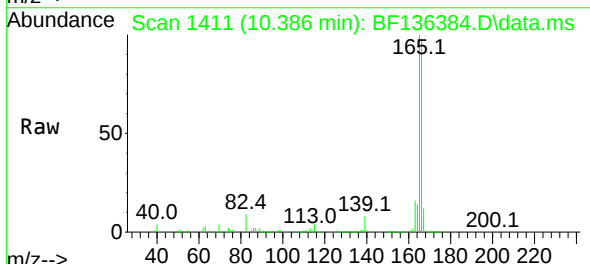
Tgt Ion:168 Resp: 21357
Ion Ratio Lower Upper
168 100
139 37.5 30.9 46.3
169 14.0 9.1 13.7

Manual Integrations
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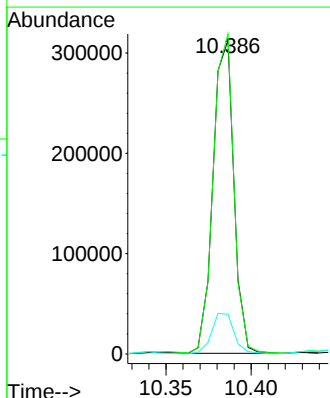
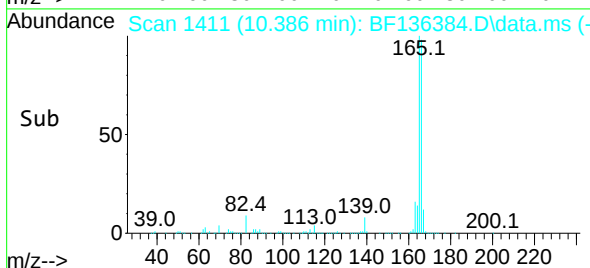
Reviewed By :Yogesh Patel 12/05/2023
Supervised By :mohammad ahmed 12/05/2023

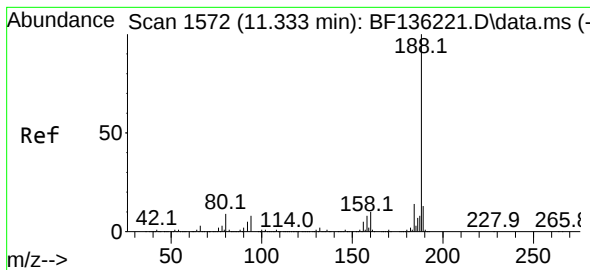


#58
Fluorene
Concen: 16.001 ng
RT: 10.386 min Scan# 1411
Delta R.T. -0.006 min
Lab File: BF136384.D
Acq: 04 Dec 2023 16:23



Tgt Ion:166 Resp: 265277
Ion Ratio Lower Upper
166 100
165 102.0 86.2 129.4
167 12.7 9.1 13.7





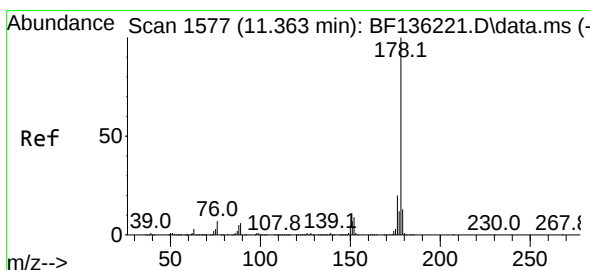
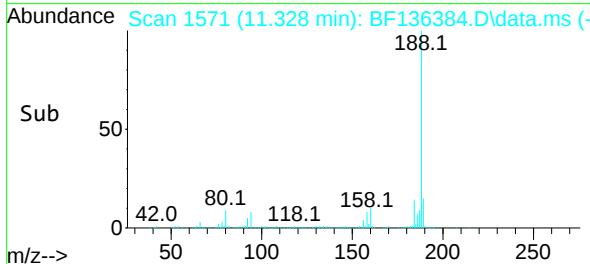
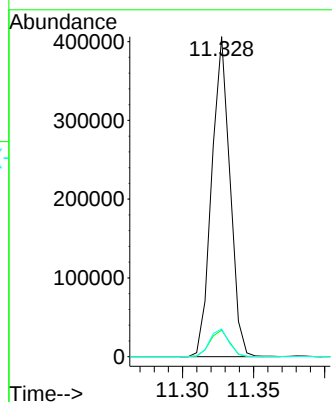
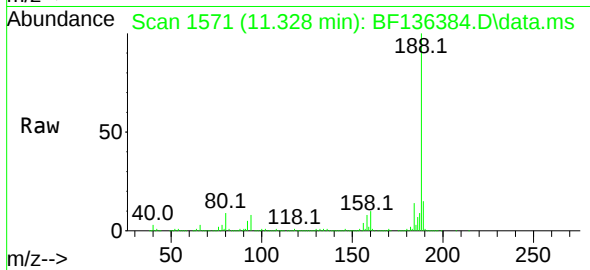
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.328 min Scan# 1571
Delta R.T. 0.000 min
Lab File: BF136384.D
Acq: 04 Dec 2023 16:23

Instrument :
BNA_F
ClientSampleId :
EO-03-112923DL

Tgt Ion:188 Resp: 363878
Ion Ratio Lower Upper
188 100
94 8.3 6.7 10.1
80 8.7 7.2 10.8

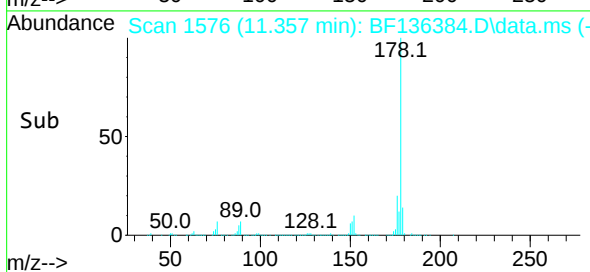
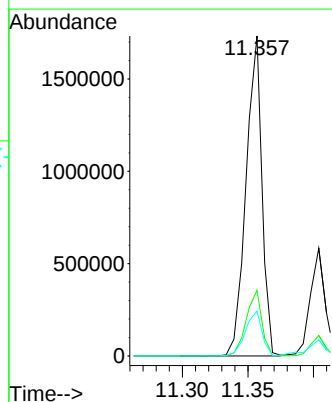
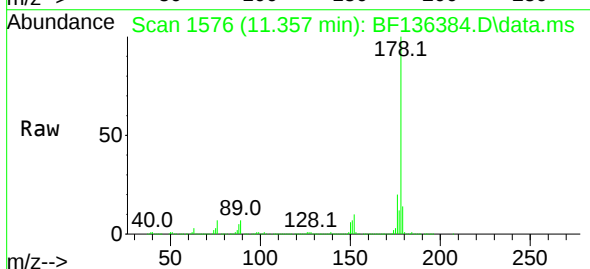
Manual Integrations
APPROVED

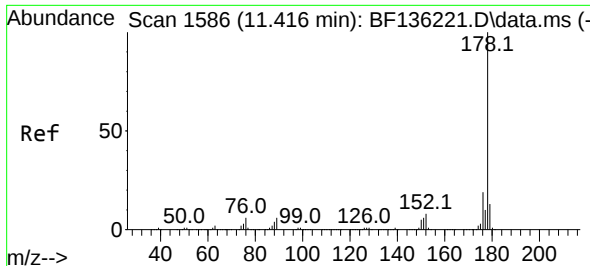
Reviewed By :Yogesh Patel 12/05/2023
Supervised By :mohammad ahmed 12/05/2023



#71
Phenanthrene
Concen: 71.513 ng
RT: 11.357 min Scan# 1576
Delta R.T. 0.000 min
Lab File: BF136384.D
Acq: 04 Dec 2023 16:23

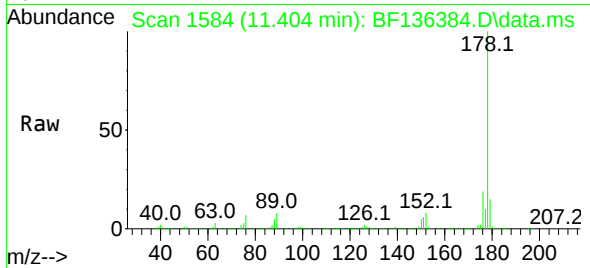
Tgt Ion:178 Resp: 1462559
Ion Ratio Lower Upper
178 100
176 20.5 16.2 24.2
179 14.0 10.3 15.5





#72
 Anthracene
 Concen: 21.519 ng
 RT: 11.404 min Scan# 11
 Delta R.T. -0.006 min
 Lab File: BF136384.D
 Acq: 04 Dec 2023 16:23

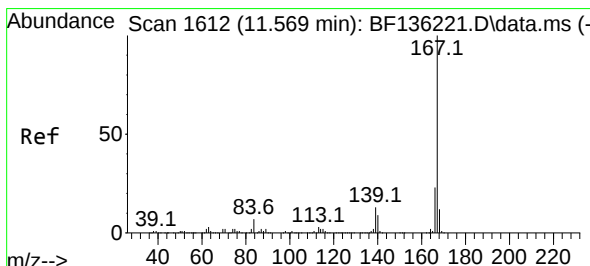
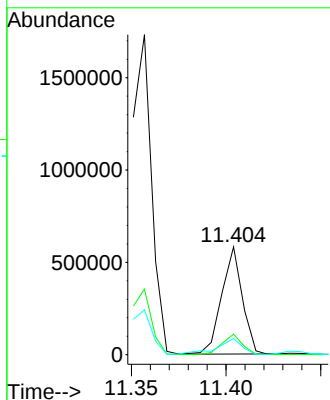
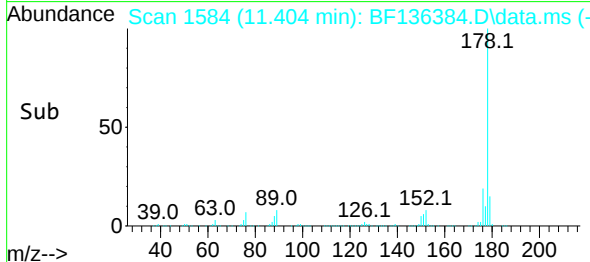
Instrument :
 BNA_F
 ClientSampleId :
 EO-03-112923DL



Tgt Ion:178 Resp: 44134
 Ion Ratio Lower Upper
 178 100
 176 19.0 15.5 23.3
 179 15.0 10.5 15.7

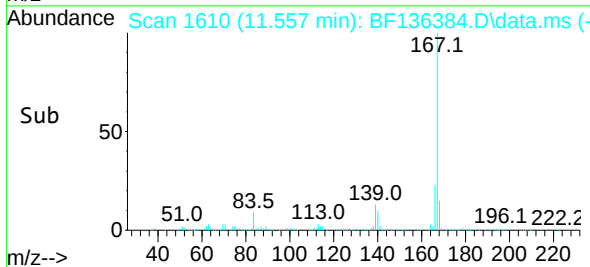
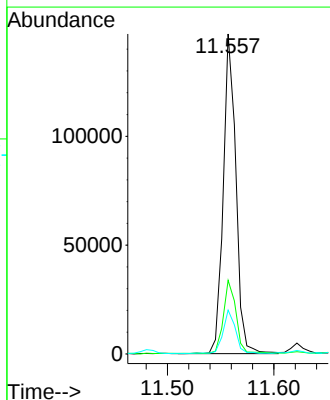
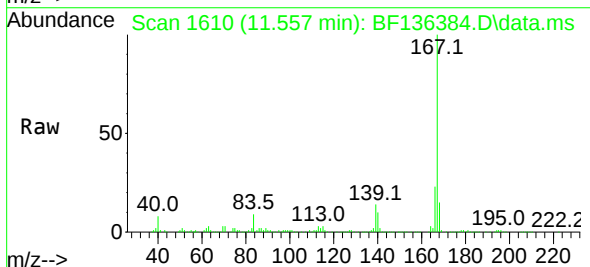
Manual Integrations
 APPROVED

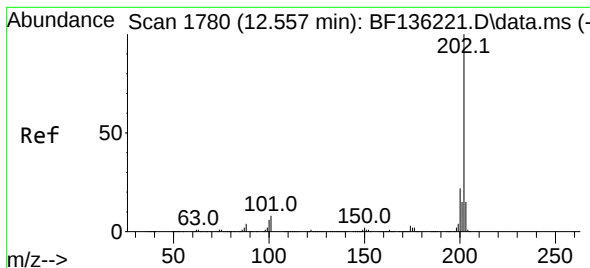
Reviewed By :Yogesh Patel 12/05/2023
 Supervised By :mohammad ahmed 12/05/2023



#73
 Carbazole
 Concen: 6.918 ng
 RT: 11.557 min Scan# 1610
 Delta R.T. -0.006 min
 Lab File: BF136384.D
 Acq: 04 Dec 2023 16:23

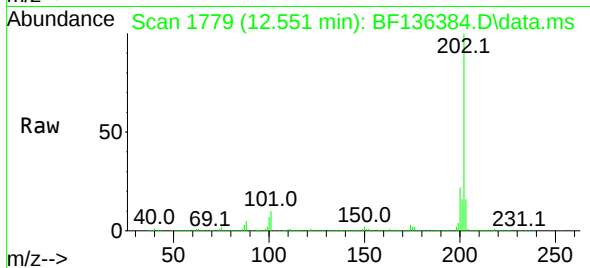
Tgt Ion:167 Resp: 120666
 Ion Ratio Lower Upper
 167 100
 166 23.0 18.4 27.6
 139 13.7 10.5 15.7





#75
Fluoranthene
Concen: 69.241 ng
RT: 12.551 min Scan# 11
Delta R.T. 0.006 min
Lab File: BF136384.D
Acq: 04 Dec 2023 16:23

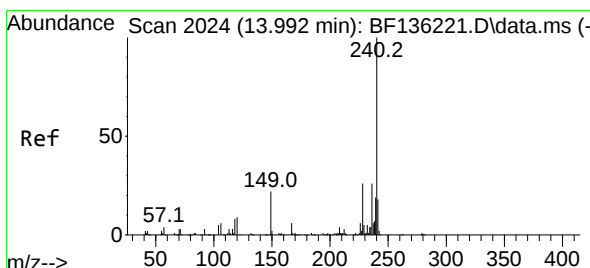
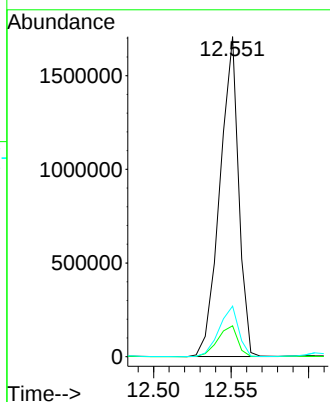
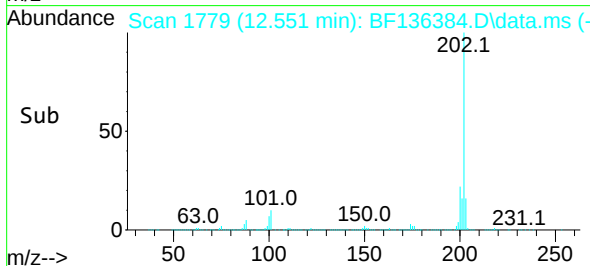
Instrument :
BNA_F
ClientSampleId :
EO-03-112923DL



Tgt Ion:202 Resp: 1437572
Ion Ratio Lower Upper
202 100
101 9.7 0.0 27.8
203 15.8 0.0 34.5

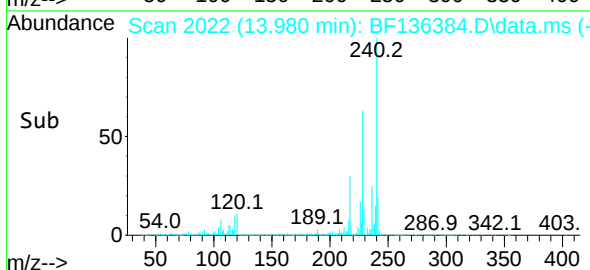
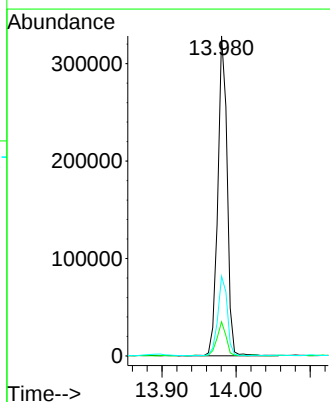
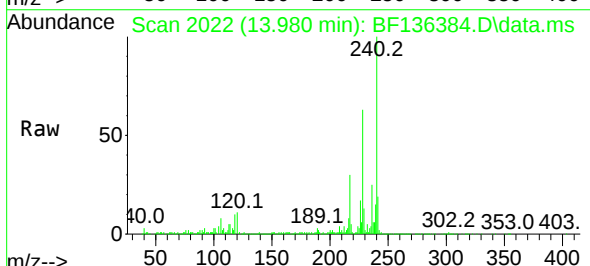
Manual Integrations
APPROVED

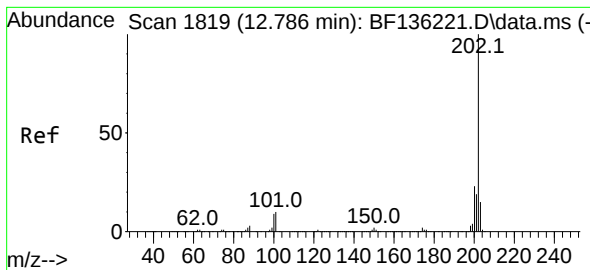
Reviewed By :Yogesh Patel 12/05/2023
Supervised By :mohammad ahmed 12/05/2023



#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.980 min Scan# 2022
Delta R.T. 0.000 min
Lab File: BF136384.D
Acq: 04 Dec 2023 16:23

Tgt Ion:240 Resp: 287211
Ion Ratio Lower Upper
240 100
120 10.7 7.4 11.2
236 24.9 21.1 31.7





#78

Pyrene

Concen: 36.476 ng

RT: 12.780 min Scan# 11

Delta R.T. 0.006 min

Lab File: BF136384.D

Acq: 04 Dec 2023 16:23

Instrument :

BNA_F

ClientSampleId :

EO-03-112923DL

Tgt Ion:202 Resp: 114735

Ion Ratio Lower Upper

202 100

200 21.9 18.4 27.6

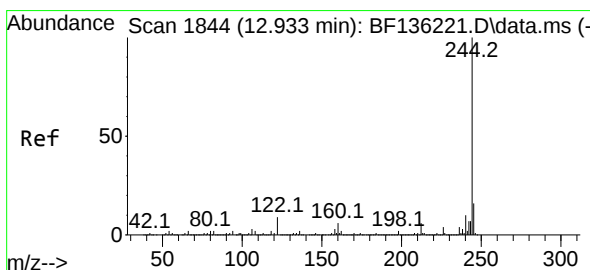
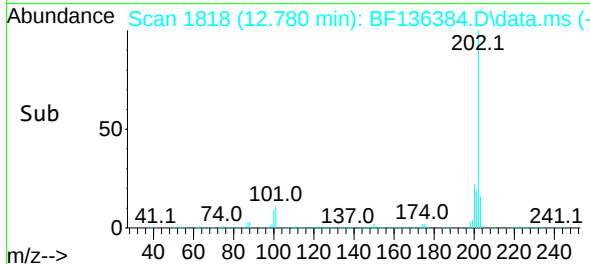
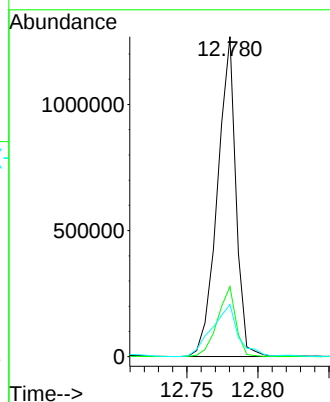
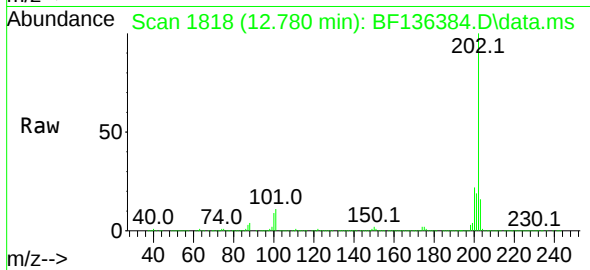
203 16.3 11.8 17.6

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/05/2023

Supervised By :mohammad ahmed 12/05/2023



#79

Terphenyl-d14

Concen: 2.914 ng

RT: 12.916 min Scan# 1841

Delta R.T. -0.012 min

Lab File: BF136384.D

Acq: 04 Dec 2023 16:23

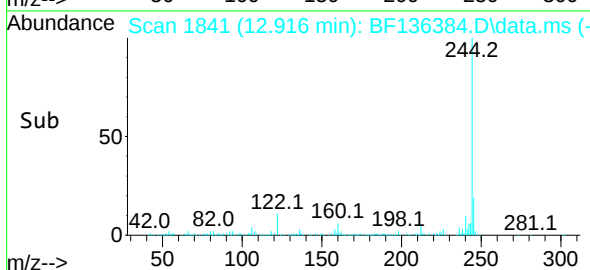
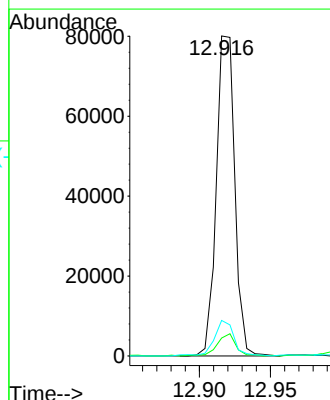
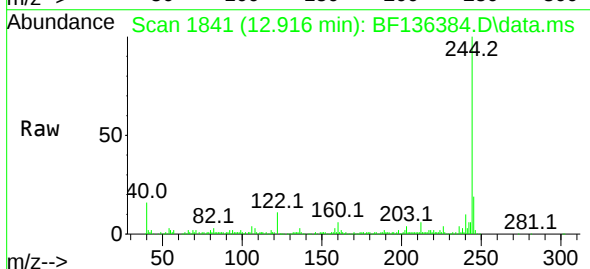
Tgt Ion:244 Resp: 72564

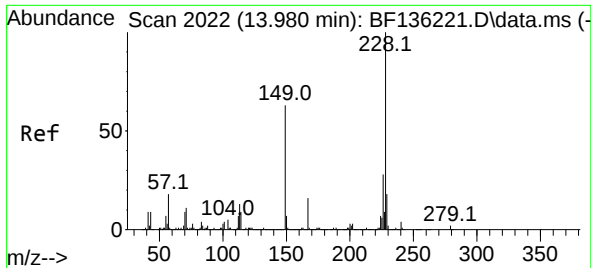
Ion Ratio Lower Upper

244 100

212 5.6 4.6 7.0

122 11.1 7.3 10.9#





#81
Benzo(a)anthracene
Concen: 28.983 ng
RT: 13.974 min Scan# 2021
Delta R.T. 0.006 min
Lab File: BF136384.D
Acq: 04 Dec 2023 16:23

Instrument :

BNA_F

ClientSampleId :

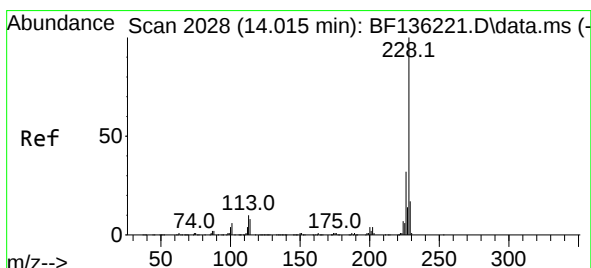
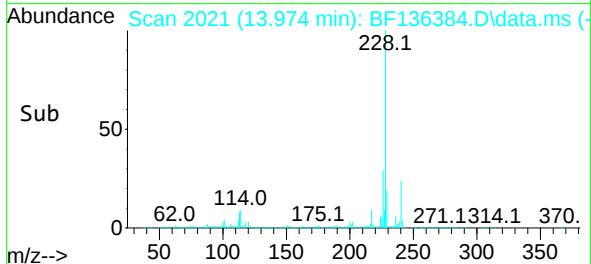
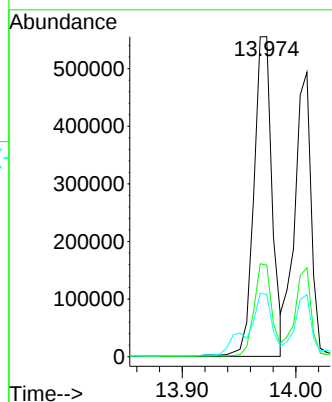
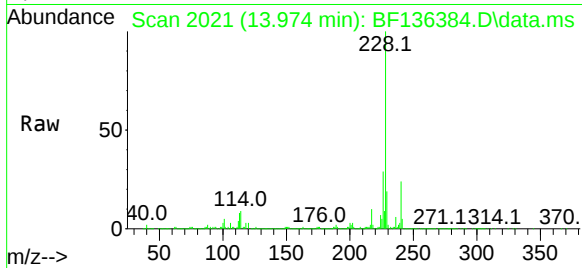
EO-03-112923DL

Tgt Ion:228 Resp: 618289
Ion Ratio Lower Upper
228 100
226 28.6 22.6 34.0
229 19.4 14.0 21.0

Manual Integrations

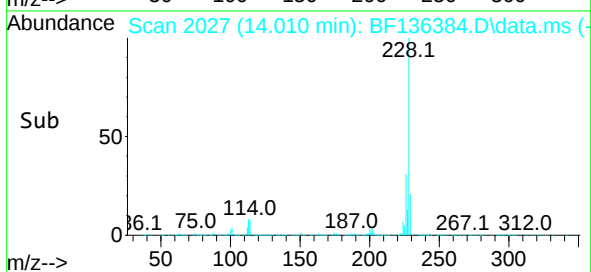
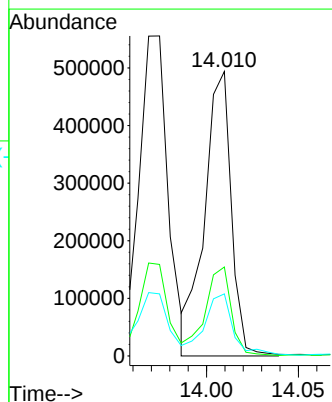
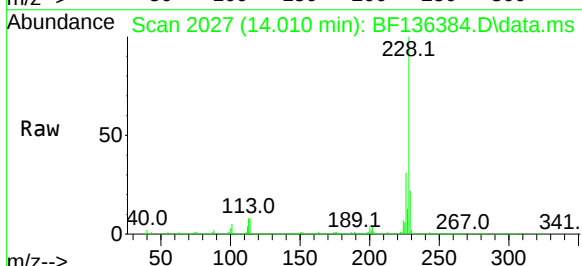
APPROVED

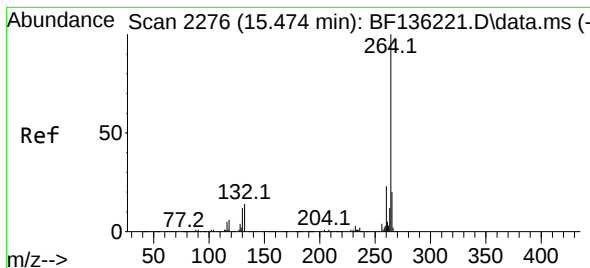
Reviewed By :Yogesh Patel 12/05/2023
Supervised By :mohammad ahmed 12/05/2023



#83
Chrysene
Concen: 24.337 ng m
RT: 14.010 min Scan# 2027
Delta R.T. 0.000 min
Lab File: BF136384.D
Acq: 04 Dec 2023 16:23

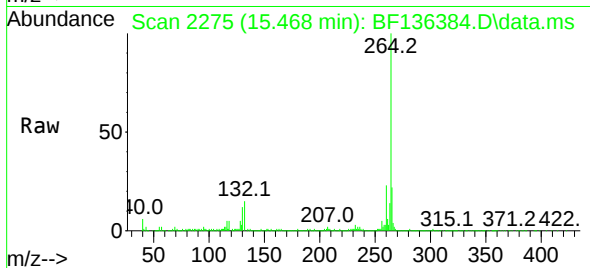
Tgt Ion:228 Resp: 501285
Ion Ratio Lower Upper
228 100
226 31.3 25.5 38.3
229 21.8 13.9 20.9#





#86
Perylene-d12
Concen: 20.000 ng
RT: 15.468 min Scan# 21
Delta R.T. 0.012 min
Lab File: BF136384.D
Acq: 04 Dec 2023 16:23

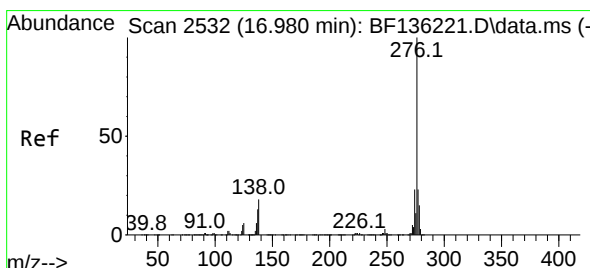
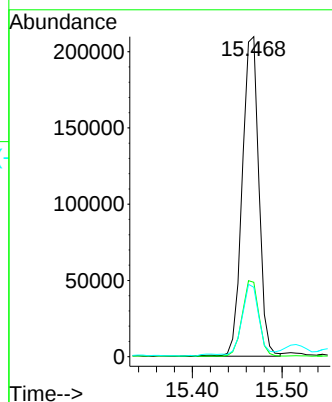
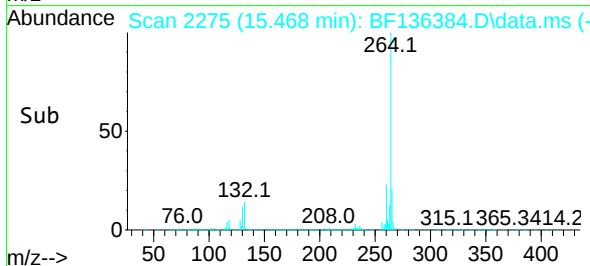
Instrument :
BNA_F
ClientSampleId :
EO-03-112923DL



Tgt Ion:264 Resp: 26856
Ion Ratio Lower Upper
264 100
260 23.2 18.6 27.8
265 21.7 15.7 23.5

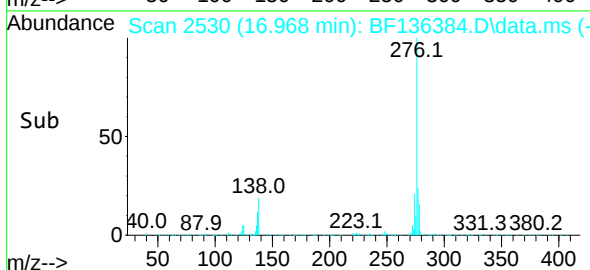
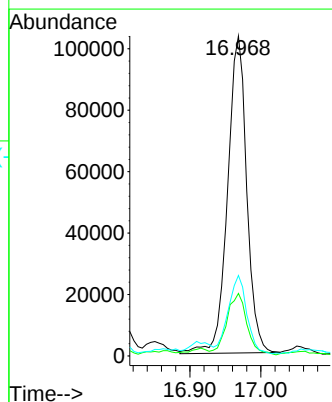
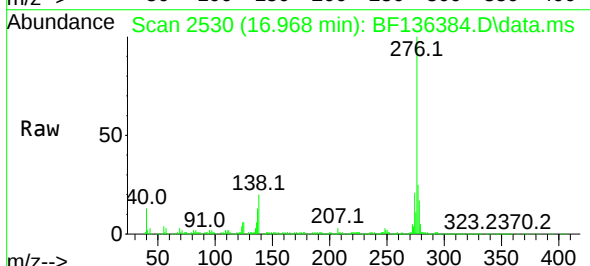
Manual Integrations
APPROVED

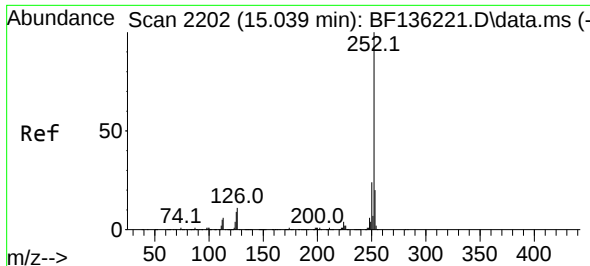
Reviewed By :Yogesh Patel 12/05/2023
Supervised By :mohammad ahmed 12/05/2023



#87
Indeno(1,2,3-cd)pyrene
Concen: 11.780 ng
RT: 16.968 min Scan# 2530
Delta R.T. 0.006 min
Lab File: BF136384.D
Acq: 04 Dec 2023 16:23

Tgt Ion:276 Resp: 193499
Ion Ratio Lower Upper
276 100
138 20.3 17.7 26.5
277 23.9 19.6 29.4





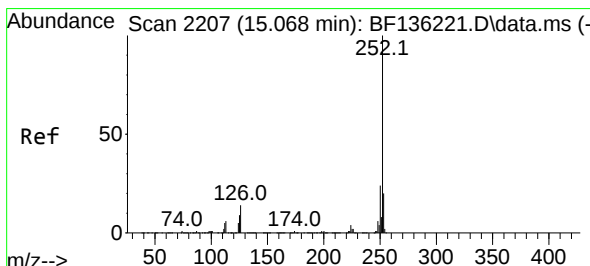
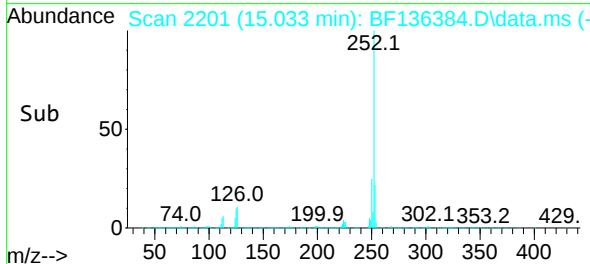
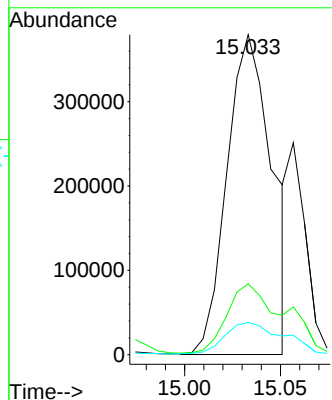
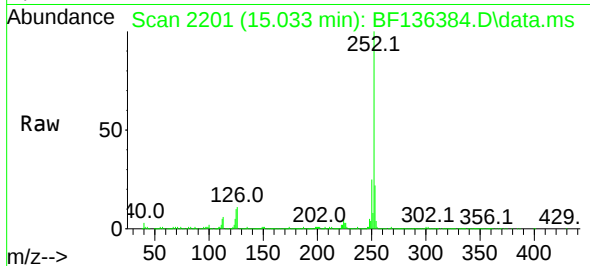
#88
Benzo(b)fluoranthene
Concen: 32.835 ng m
RT: 15.033 min Scan# 21
Delta R.T. 0.006 min
Lab File: BF136384.D
Acq: 04 Dec 2023 16:23

Instrument :
BNA_F
ClientSampleId :
EO-03-112923DL

Tgt Ion:252 Resp: 61869
Ion Ratio Lower Upper
252 100
253 22.2 16.2 24.2
125 10.0 6.9 10.3

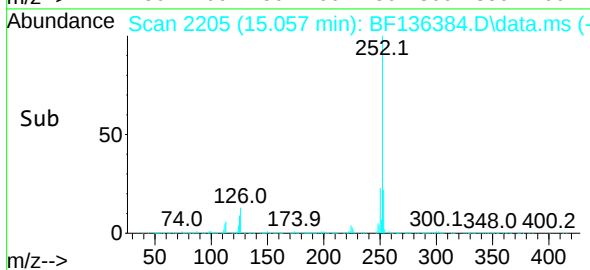
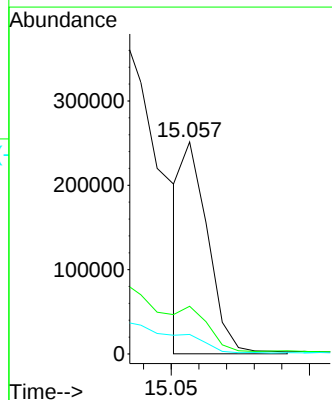
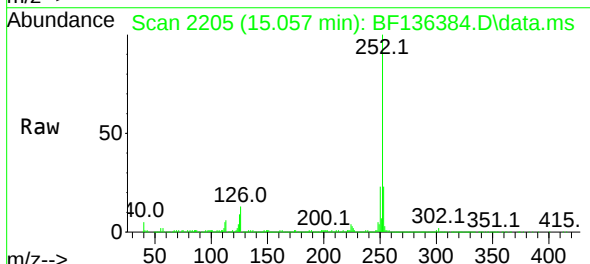
Manual Integrations
APPROVED

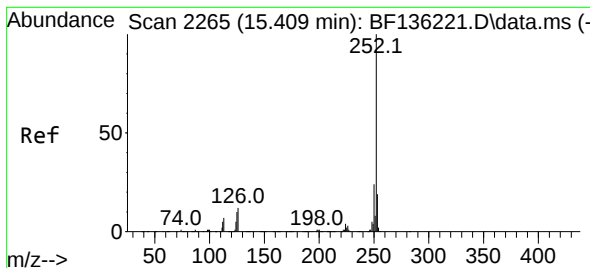
Reviewed By :Yogesh Patel 12/05/2023
Supervised By :mohammad ahmed 12/05/2023



#89
Benzo(k)fluoranthene
Concen: 9.086 ng m
RT: 15.057 min Scan# 2205
Delta R.T. 0.000 min
Lab File: BF136384.D
Acq: 04 Dec 2023 16:23

Tgt Ion:252 Resp: 162598
Ion Ratio Lower Upper
252 100
253 22.5 15.6 23.4
125 9.2 7.0 10.4





#90

Benzo(a)pyrene

Concen: 26.765 ng

RT: 15.404 min Scan# 21

Delta R.T. 0.006 min

Lab File: BF136384.D

Acq: 04 Dec 2023 16:23

Instrument :

BNA_F

ClientSampleId :

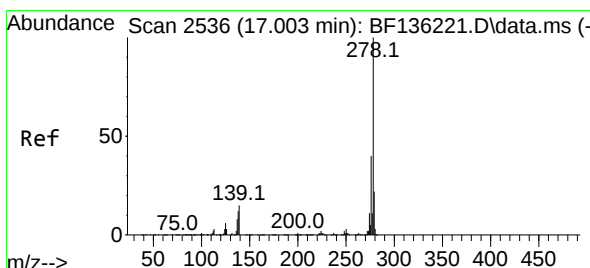
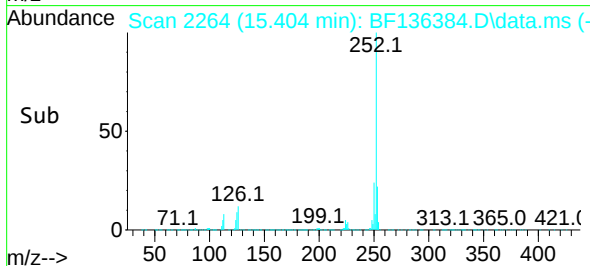
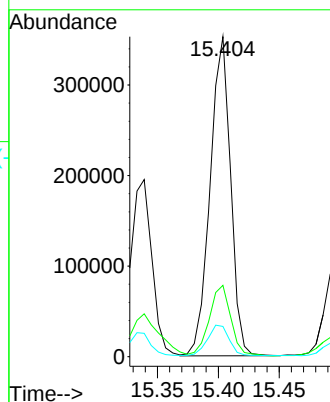
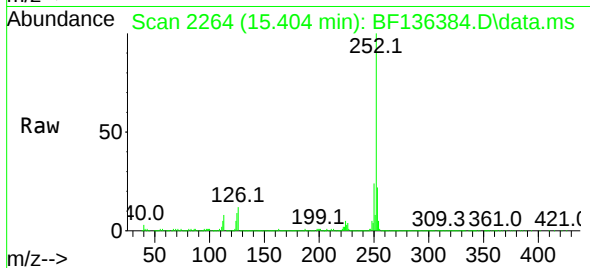
EO-03-112923DL

Tgt Ion:252 Resp: 412268
 Ion Ratio Lower Upper
 252 100
 253 22.3 15.5 23.3
 125 9.4 7.9 11.9

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/05/2023
 Supervised By :mohammad ahmed 12/05/2023



#91

Dibenzo(a,h)anthracene

Concen: 5.379 ng

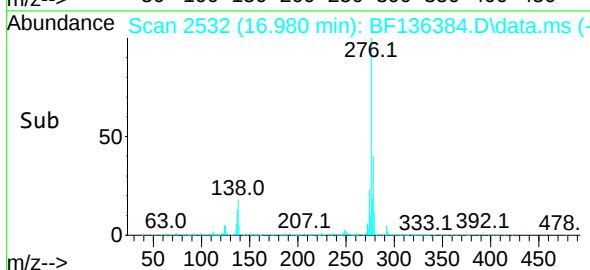
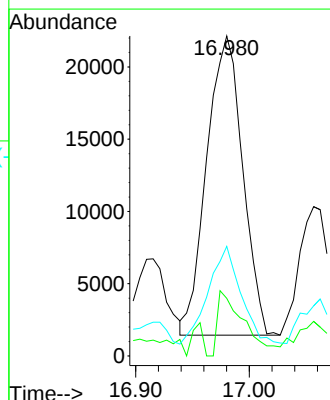
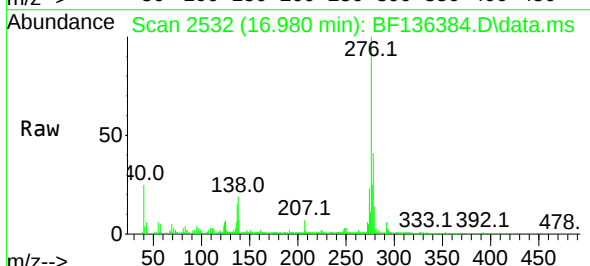
RT: 16.980 min Scan# 2532

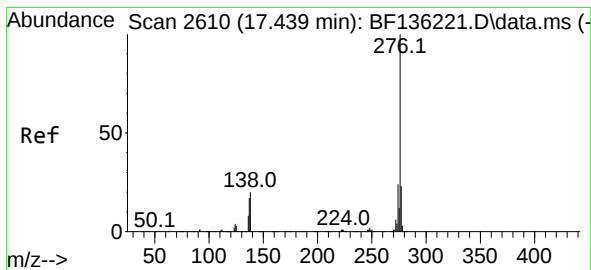
Delta R.T. -0.012 min

Lab File: BF136384.D

Acq: 04 Dec 2023 16:23

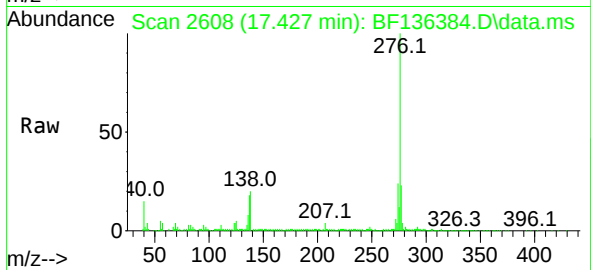
Tgt Ion:278 Resp: 45530
 Ion Ratio Lower Upper
 278 100
 139 18.0 11.7 17.5#
 279 34.2 17.8 26.8#





#92
Benzo(g,h,i)perylene
Concen: 11.640 ng
RT: 17.427 min Scan# 20
Delta R.T. 0.006 min
Lab File: BF136384.D
Acq: 04 Dec 2023 16:23

Instrument :
BNA_F
ClientSampleId :
EO-03-112923DL



Tgt Ion:276 Resp: 16395
Ion Ratio Lower Upper
276 100
277 22.8 18.6 27.8
138 19.7 15.8 23.8

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/05/2023
Supervised By :mohammad ahmed 12/05/2023

