

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF113023\
 Data File : BF136325.D
 Acq On : 30 Nov 2023 21:17
 Operator : CG\JU
 Sample : 05577-01 2X
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 EO-03-112923

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 12/01/2023
 Supervised By :mohammad ahmed 12/01/2023

Quant Time: Dec 01 00:13:52 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112723.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Nov 28 03:04:20 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.804	152	92263	20.000	ng	0.00
21) Naphthalene-d8	8.087	136	315575	20.000	ng	0.00
39) Acenaphthene-d10	9.839	164	148177	20.000	ng	0.00
64) Phenanthrene-d10	11.339	188	287960	20.000	ng	0.00
76) Chrysene-d12	14.010	240	205013	20.000	ng	0.02
86) Perylene-d12	15.492	264	154457	20.000	ng	# 0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.434	112	279650	42.187	ng	0.00
7) Phenol-d6	6.434	99	308611	37.234	ng	-0.01
23) Nitrobenzene-d5	7.363	82	182627	30.581	ng	-0.01
42) 2,4,6-Tribromophenol	10.633	330	81737	45.119	ng	0.00
45) 2-Fluorobiphenyl	9.157	172	341225	29.414	ng	-0.01
79) Terphenyl-d14	12.933	244	494360	27.815	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.110	128	2478326	139.720	ng	100
37) 2-Methylnaphthalene	8.798	142	539223	48.462	ng	99
38) 1-Methylnaphthalene	8.898	142	305769	28.170	ng	92
46) 1,1'-Biphenyl	9.257	154	165328	12.652	ng	94
49) Acenaphthylene	9.698	152	99427	6.866	ng	# 93
52) Acenaphthene	9.875	154	545269	59.583	ng	98
55) Dibenzofuran	10.051	168	978862	71.882	ng	97
58) Fluorene	10.398	166	1282443	120.061	ng	100
71) Phenanthrene	11.386	178	7286410	450.205	ng	95
72) Anthracene	11.427	178	2568504	158.253	ng	98
73) Carbazole	11.569	167	804880	58.308	ng	100
75) Fluoranthene	12.586	202	8191098	498.540	ng	96
78) Pyrene	12.816	202	6995992	311.591	ng	96
81) Benzo(a)anthracene	13.998	228	3601714	236.524	ng	98
83) Chrysene	14.039	228	2606890	177.304	ng	96
87) Indeno(1,2,3-cd)pyrene	17.021	276	971574	82.135	ng	94
88) Benzo(b)fluoranthene	15.063	252	2520962m	232.637	ng	
89) Benzo(k)fluoranthene	15.086	252	785377m	76.309	ng	
90) Benzo(a)pyrene	15.445	252	1707492	192.750	ng	96
91) Dibenzo(a,h)anthracene	17.027	278	221241m	25.239	ng	
92) Benzo(g,h,i)perylene	17.486	276	893864	94.226	ng	99

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

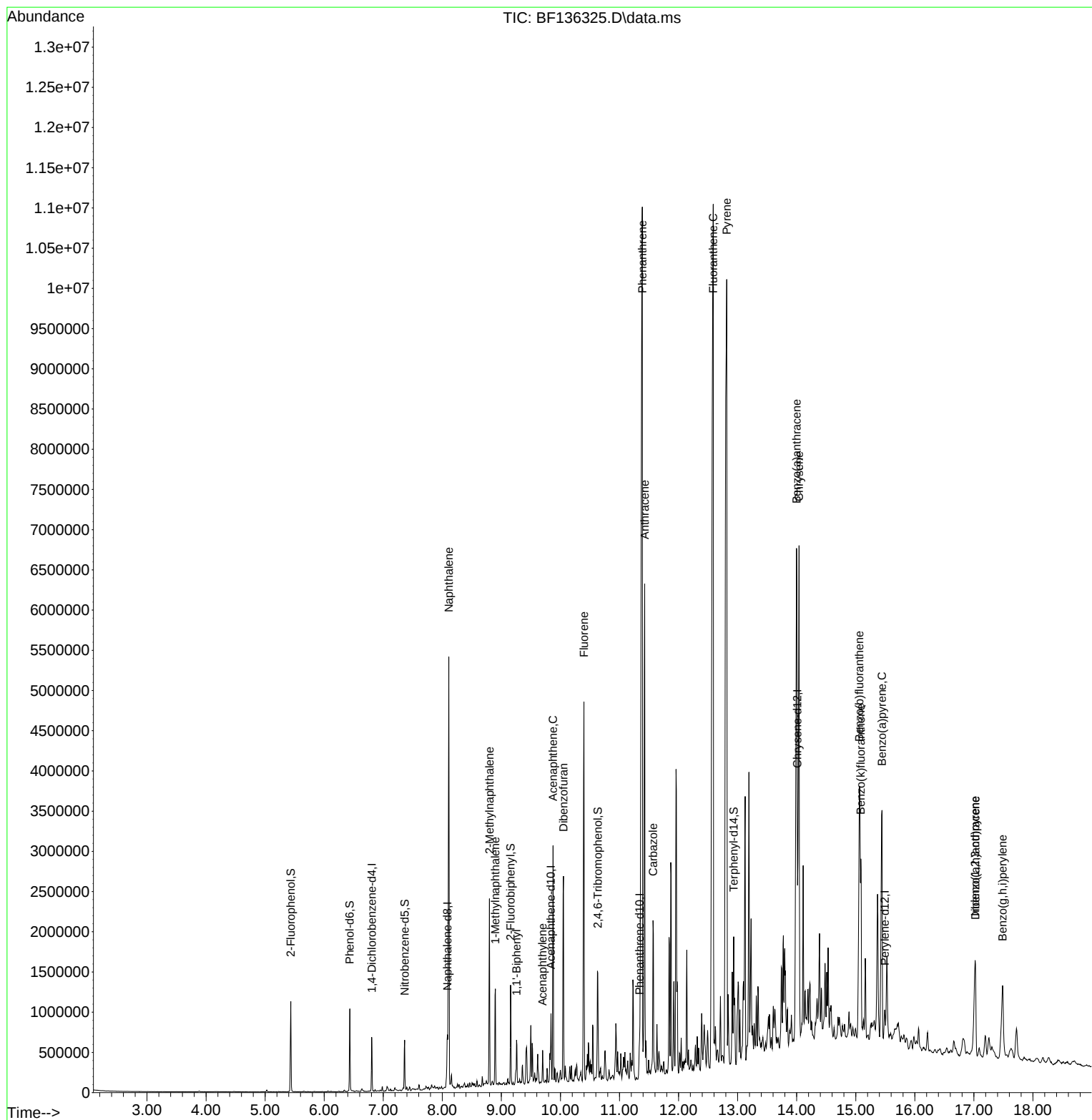
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF113023\
Data File : BF136325.D
Acq On : 30 Nov 2023 21:17
Operator : CG\JU
Sample : 05577-01 2X
Misc :
ALS Vial : 21 Sample Multiplier: 1

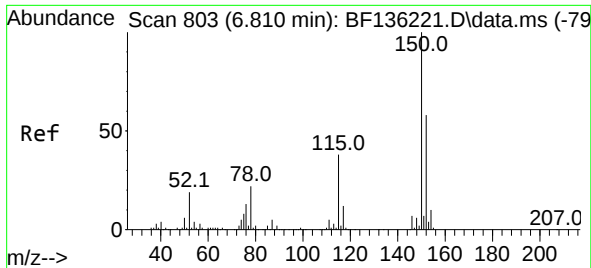
Instrument :
BNA_F
ClientSampleId :
EO-03-112923

Quant Time: Dec 01 00:13:52 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112723.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Nov 28 03:04:20 2023
Response via : Initial Calibration

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Supervised By :mohammad ahmed 12/01/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.804 min Scan# 803
Delta R.T. -0.006 min
Lab File: BF136325.D
Acq: 30 Nov 2023 21:17

Instrument :

BNA_F

ClientSampleId :

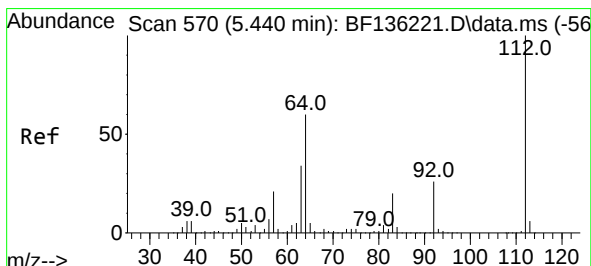
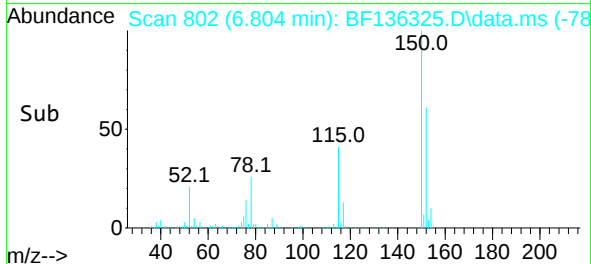
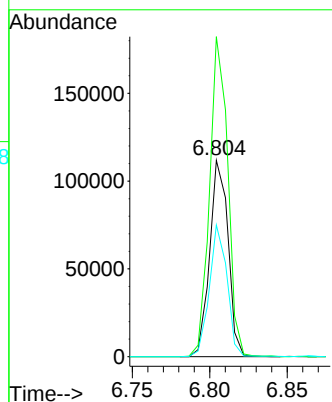
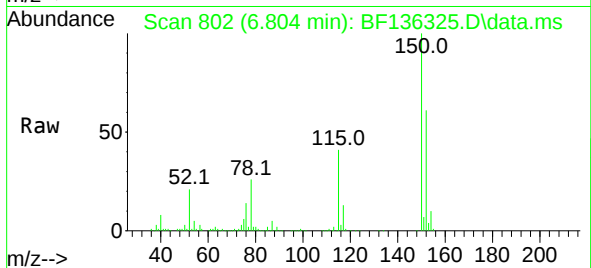
EO-03-112923

Tgt Ion:152 Resp: 92261
Ion Ratio Lower Upper
152 100
150 163.0 137.8 206.8
115 67.1 52.7 79.1

Manual Integrations

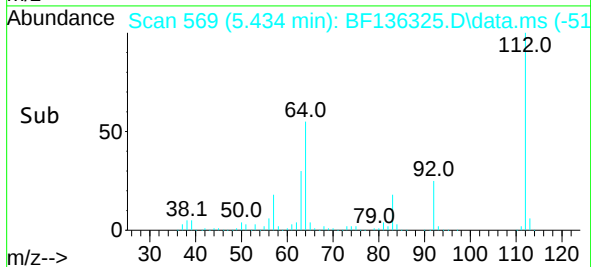
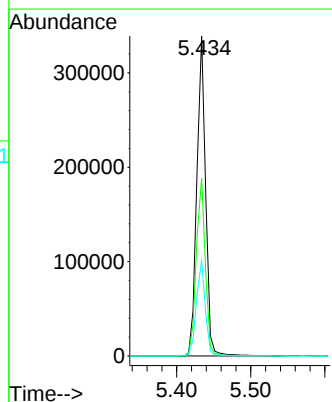
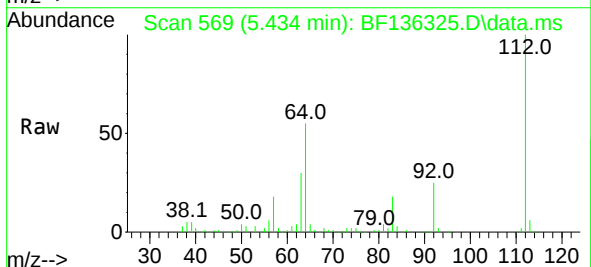
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Reviewed By :Yogesh Patel 12/01/2023
Supervised By :mohammad ahmed 12/01/2023



#5
2-Fluorophenol
Concen: 42.187 ng
RT: 5.434 min Scan# 569
Delta R.T. -0.006 min
Lab File: BF136325.D
Acq: 30 Nov 2023 21:17

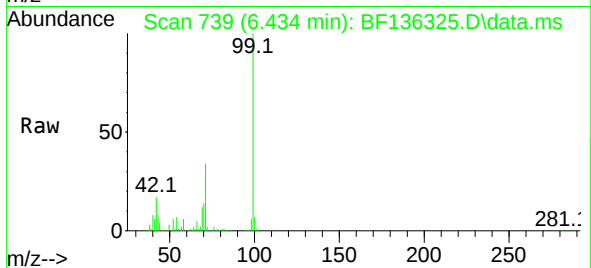
Tgt Ion:112 Resp: 279650
Ion Ratio Lower Upper
112 100
64 55.4 48.2 72.4
63 29.8 27.0 40.6





#7
Phenol-d6
Concen: 37.234 ng
RT: 6.434 min Scan# 741
Delta R.T. -0.012 min
Lab File: BF136325.D
Acq: 30 Nov 2023 21:17

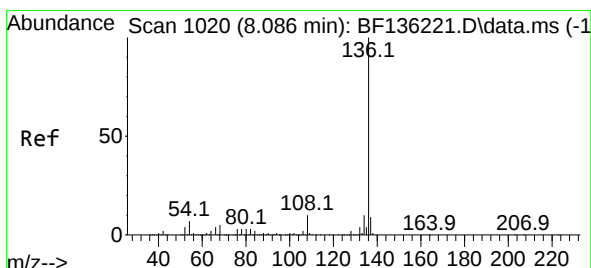
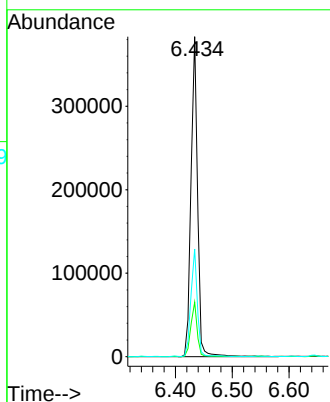
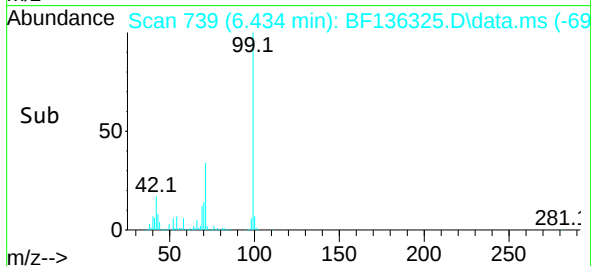
Instrument :
BNA_F
ClientSampleId :
EO-03-112923



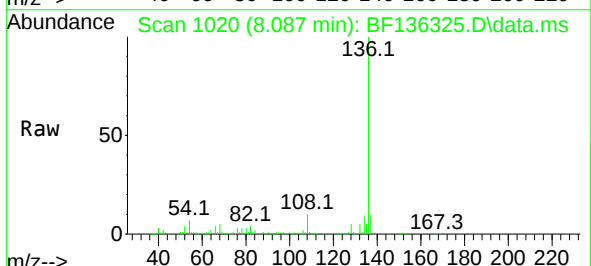
Tgt Ion: 99 Resp: 30861
Ion Ratio Lower Upper
99 100
42 17.1 15.0 22.6
71 33.6 28.9 43.3

Manual Integrations
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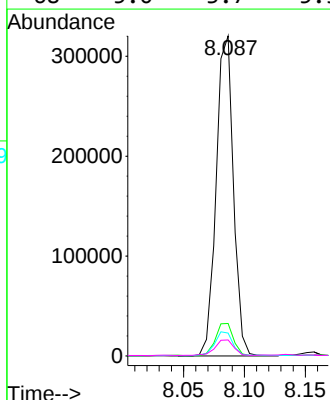
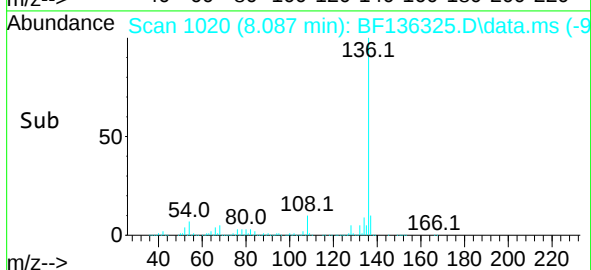
Reviewed By :Yogesh Patel 12/01/2023
Supervised By :mohammad ahmed 12/01/2023



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.087 min Scan# 1020
Delta R.T. 0.000 min
Lab File: BF136325.D
Acq: 30 Nov 2023 21:17



Tgt Ion:136 Resp: 315575
Ion Ratio Lower Upper
136 100
137 10.2 7.4 11.2
54 7.2 5.5 8.3
68 5.0 3.7 5.5





#23

Nitrobenzene-d5

Concen: 30.581 ng

RT: 7.363 min Scan# 899

Delta R.T. -0.012 min

Lab File: BF136325.D

Acq: 30 Nov 2023 21:17

Instrument :

BNA_F

ClientSampleId :

EO-03-112923

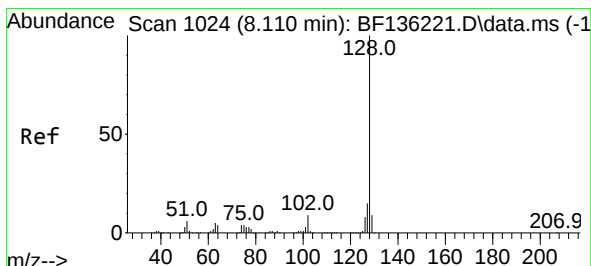
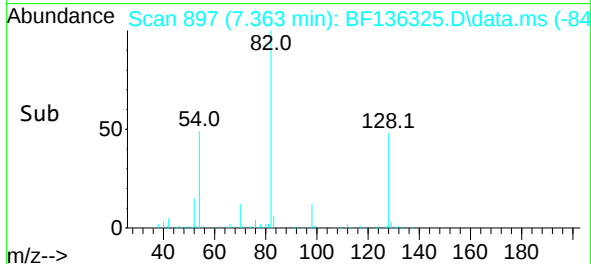
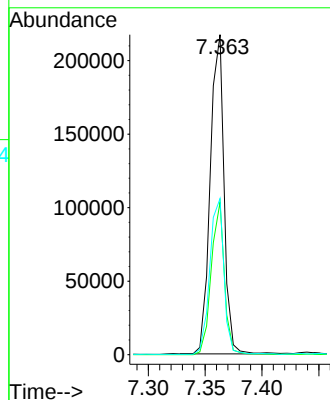
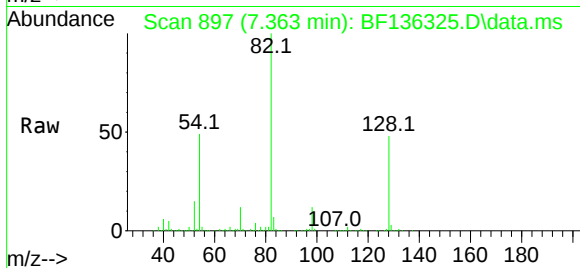
Tgt Ion:	82	Resp:	18262
Ion	Ratio	Lower	Upper
82	100		
128	47.6	33.4	50.2
54	48.8	41.7	62.5

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Supervised By :mohammad ahmed 12/01/2023



#31

Naphthalene

Concen: 139.720 ng

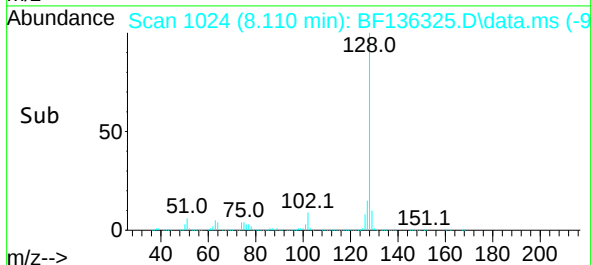
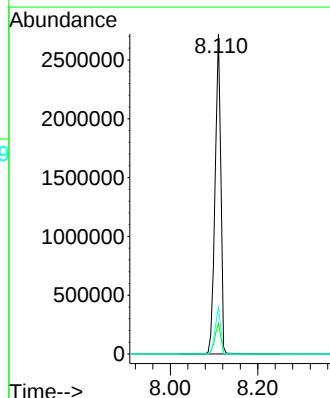
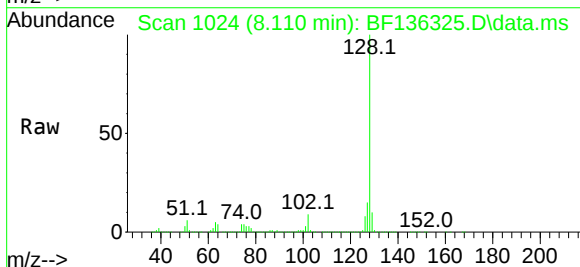
RT: 8.110 min Scan# 1024

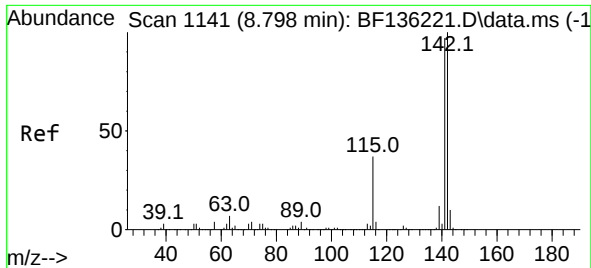
Delta R.T. 0.000 min

Lab File: BF136325.D

Acq: 30 Nov 2023 21:17

Tgt Ion:	128	Resp:	2478326
Ion	Ratio	Lower	Upper
128	100		
129	9.5	7.3	10.9
127	14.7	11.8	17.6





#37

2-Methylnaphthalene

Concen: 48.462 ng

RT: 8.798 min Scan# 1141

Delta R.T. 0.000 min

Lab File: BF136325.D

Acq: 30 Nov 2023 21:17

Instrument :

BNA_F

ClientSampleId :

EO-03-112923

Tgt Ion:142 Resp: 53922

Ion Ratio Lower Upper

142 100

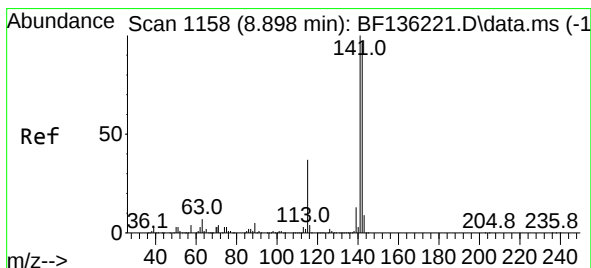
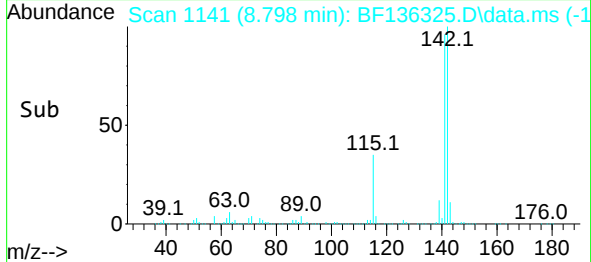
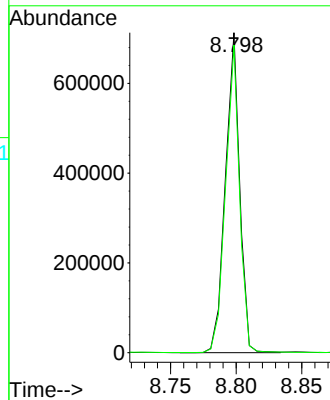
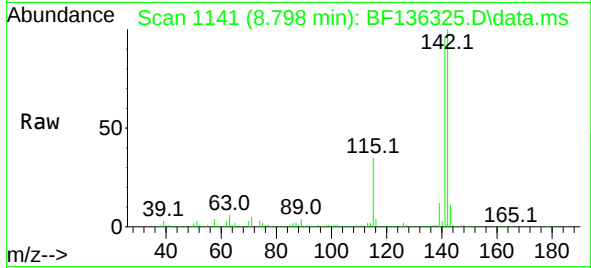
141 96.2 77.8 116.8

Manual Integrations

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Reviewed By :Yogesh Patel 12/01/2023

Supervised By :mohammad ahmed 12/01/2023



#38

1-Methylnaphthalene

Concen: 28.170 ng

RT: 8.898 min Scan# 1158

Delta R.T. 0.000 min

Lab File: BF136325.D

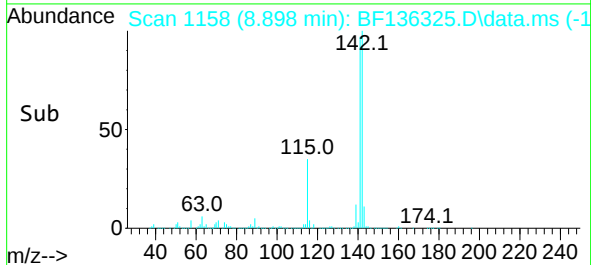
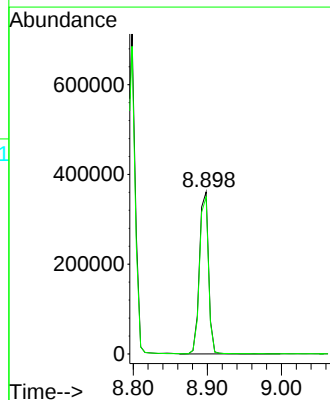
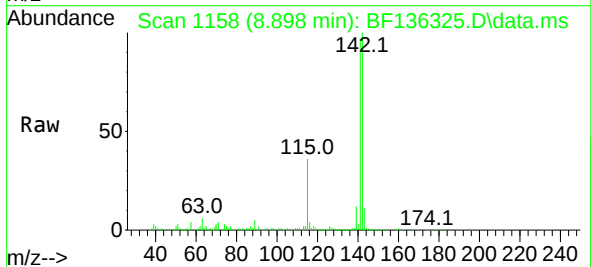
Acq: 30 Nov 2023 21:17

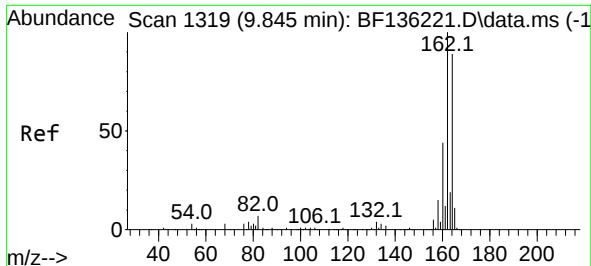
Tgt Ion:142 Resp: 305769

Ion Ratio Lower Upper

142 100

141 96.8 83.8 125.6





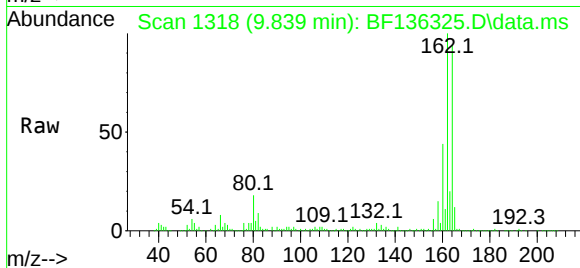
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.839 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF136325.D
Acq: 30 Nov 2023 21:17

Instrument :

BNA_F

ClientSampleId :

EO-03-112923



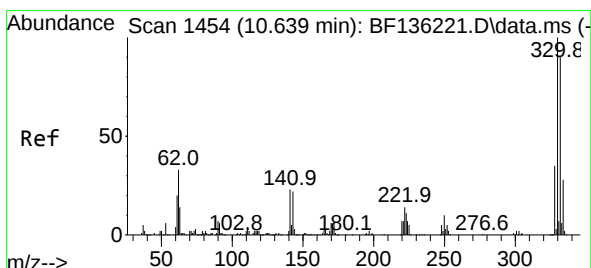
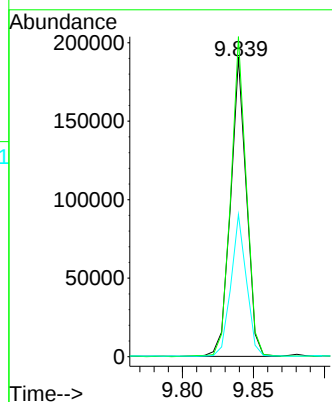
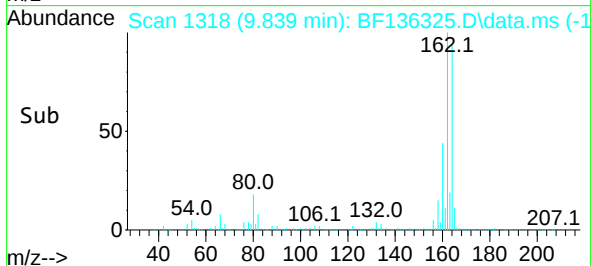
Tgt Ion:164 Resp: 14817
Ion Ratio Lower Upper
164 100
162 106.9 89.5 134.3
160 47.5 39.6 59.4

Manual Integrations

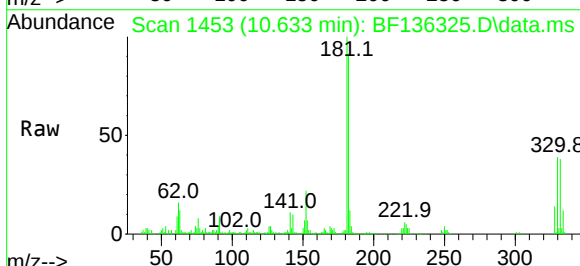
APPROVED

Reviewed By :Yogesh Patel 12/01/2023

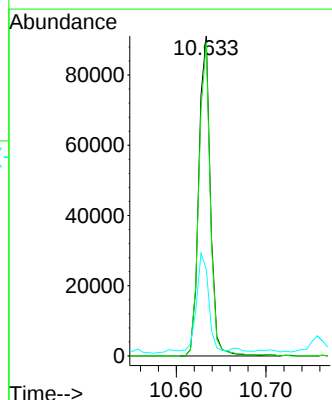
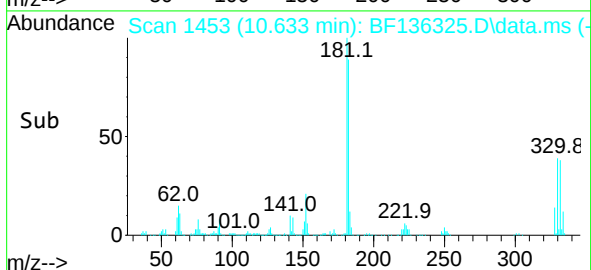
Supervised By :mohammad ahmed 12/01/2023

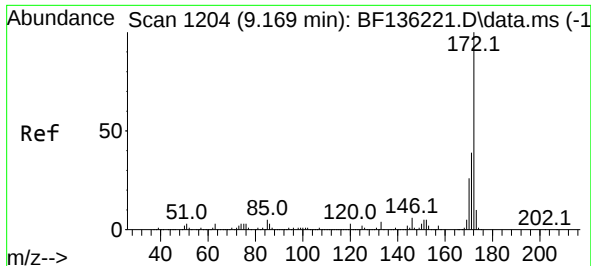


#42
2,4,6-Tribromophenol
Concen: 45.119 ng
RT: 10.633 min Scan# 1453
Delta R.T. -0.006 min
Lab File: BF136325.D
Acq: 30 Nov 2023 21:17



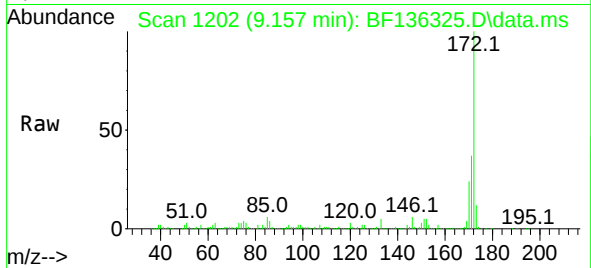
Tgt Ion:330 Resp: 81737
Ion Ratio Lower Upper
330 100
332 97.0 73.0 109.6
141 34.6 24.2 36.2





#45
2-Fluorobiphenyl
Concen: 29.414 ng
RT: 9.157 min Scan# 1202
Delta R.T. -0.012 min
Lab File: BF136325.D
Acq: 30 Nov 2023 21:17

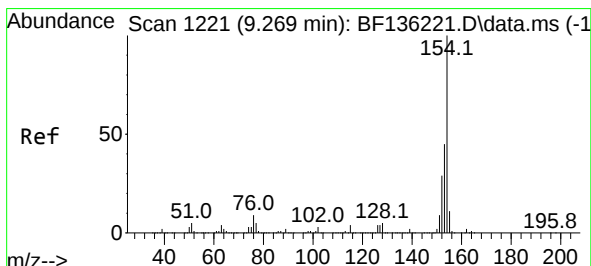
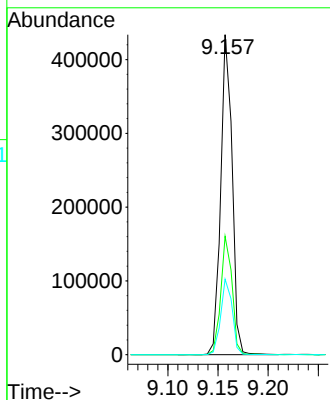
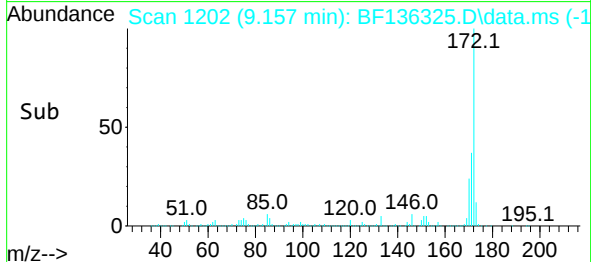
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BNA_F
ClientSampleId :
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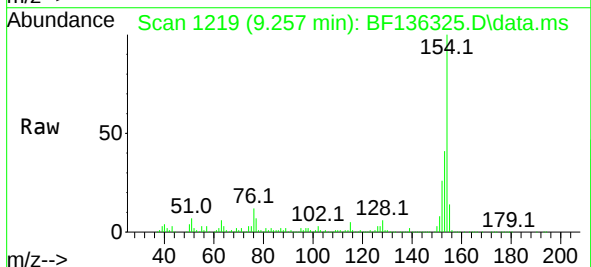
Tgt Ion:172 Resp: 341225
Ion Ratio Lower Upper
172 100
171 37.0 31.5 47.3
170 23.6 20.8 31.2

Manual Integrations
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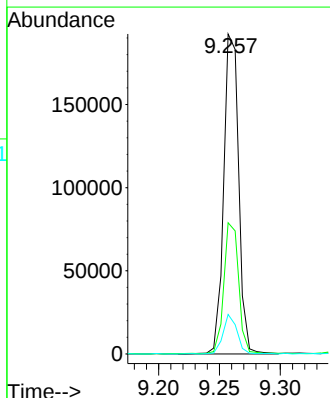
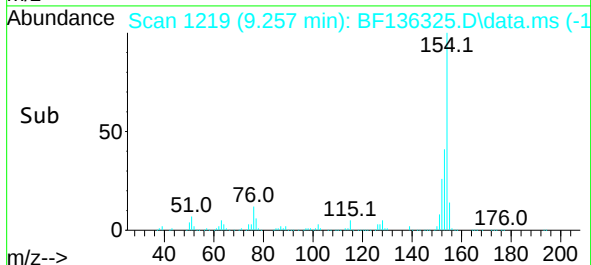
Reviewed By :Yogesh Patel 12/01/2023
Supervised By :mohammad ahmed 12/01/2023

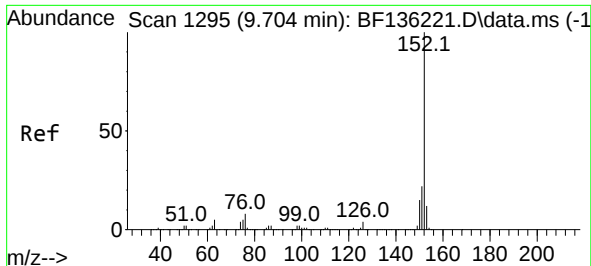


#46
1,1'-Biphenyl
Concen: 12.652 ng
RT: 9.257 min Scan# 1219
Delta R.T. -0.012 min
Lab File: BF136325.D
Acq: 30 Nov 2023 21:17



Tgt Ion:154 Resp: 165328
Ion Ratio Lower Upper
154 100
153 41.0 24.6 64.6
76 12.4 0.0 29.4





#49

Acenaphthylene

Concen: 6.866 ng

RT: 9.698 min Scan# 1294

Delta R.T. -0.006 min

Lab File: BF136325.D

Acq: 30 Nov 2023 21:17

Instrument :

BNA_F

ClientSampleId :

EO-03-112923

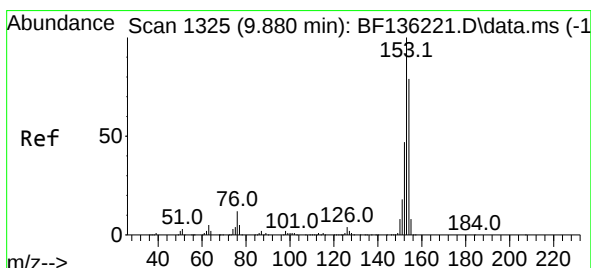
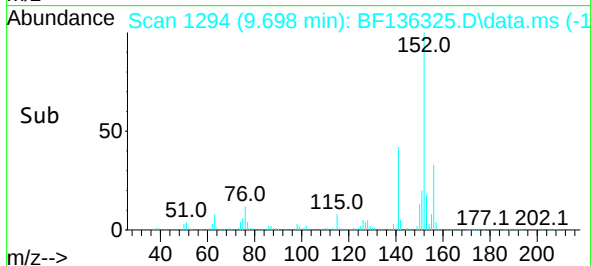
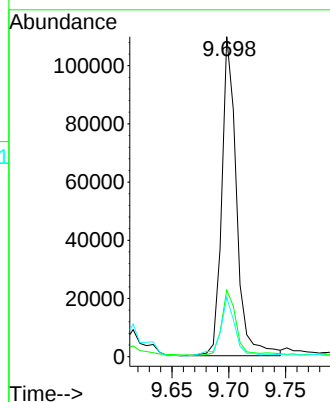
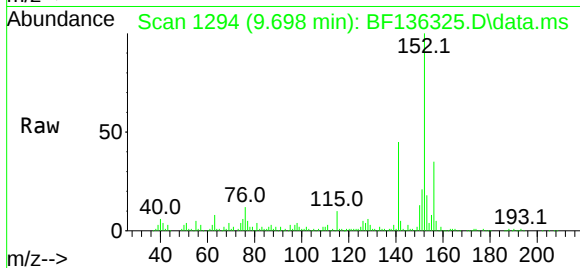
Tgt Ion:	152	Resp:	9942
Ion Ratio	Lower	Upper	
152	100		
151	20.8	17.5	26.3
153	18.5	9.6	14.4

Manual Integrations

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Reviewed By :Yogesh Patel 12/01/2023

Supervised By :mohammad ahmed 12/01/2023



#52

Acenaphthene

Concen: 59.583 ng

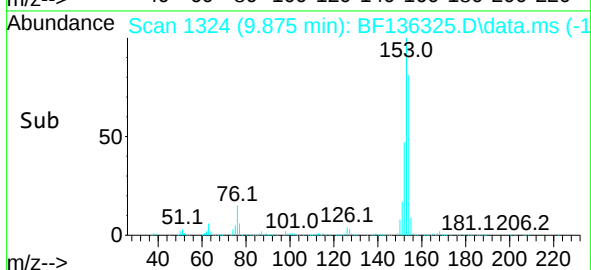
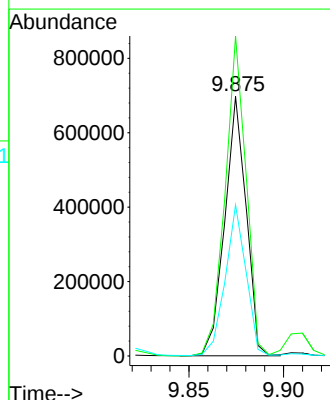
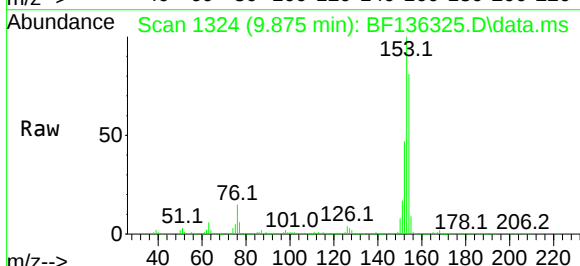
RT: 9.875 min Scan# 1324

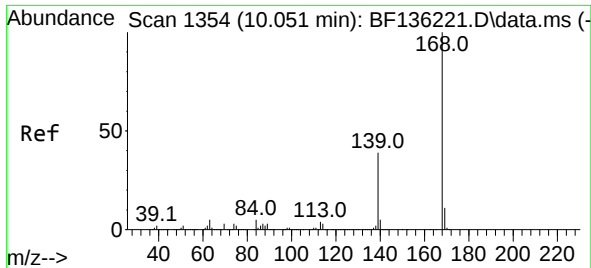
Delta R.T. -0.006 min

Lab File: BF136325.D

Acq: 30 Nov 2023 21:17

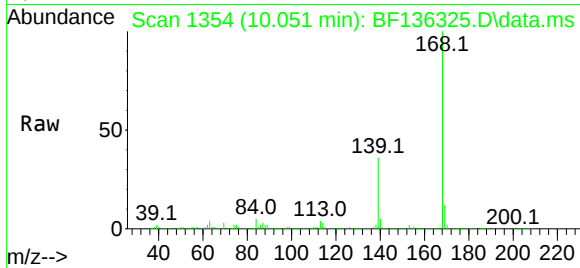
Tgt Ion:	154	Resp:	545269
Ion Ratio	Lower	Upper	
154	100		
153	123.3	100.8	151.2
152	58.2	47.0	70.6





#55
Dibenzenofuran
Concen: 71.882 ng
RT: 10.051 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF136325.D
Acq: 30 Nov 2023 21:17

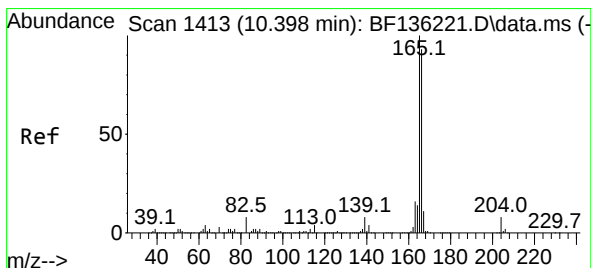
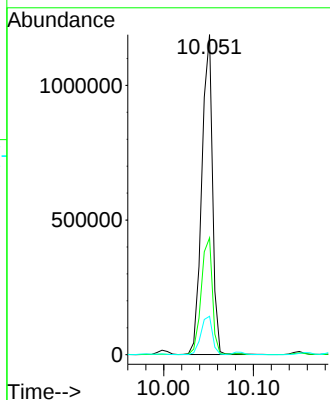
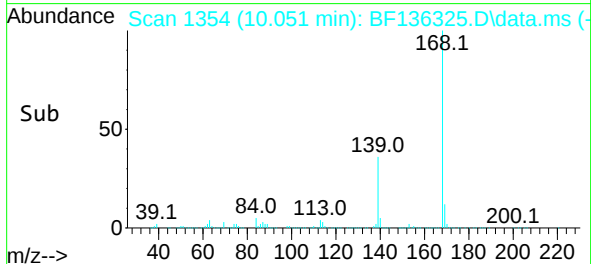
Instrument :
BNA_F
ClientSampleId :
EO-03-112923



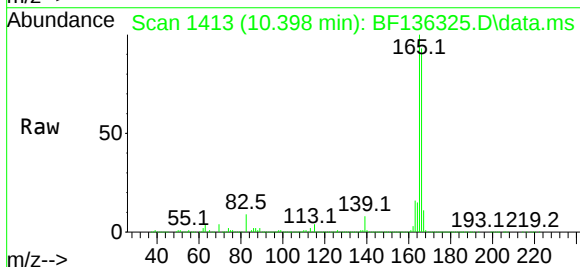
Tgt Ion:168 Resp: 978862
Ion Ratio Lower Upper
168 100
139 36.5 30.9 46.3
169 12.0 9.1 13.7

Manual Integrations
APPROVED

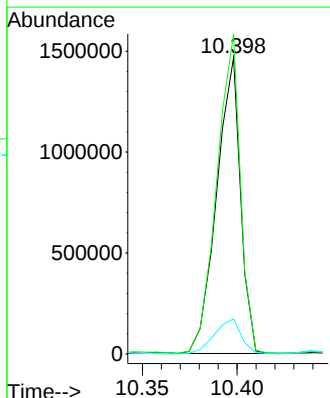
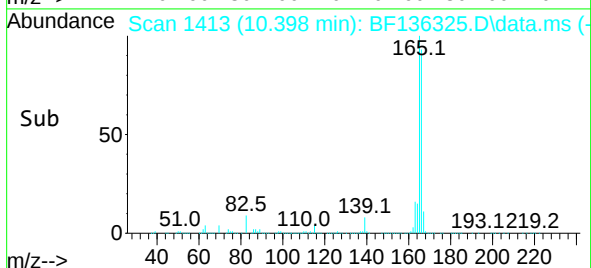
Reviewed By :Yogesh Patel 12/01/2023
Supervised By :mohammad ahmed 12/01/2023

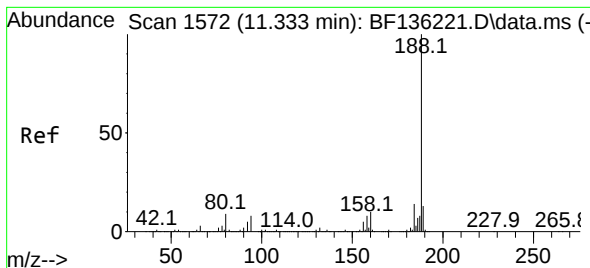


#58
Fluorene
Concen: 120.061 ng
RT: 10.398 min Scan# 1413
Delta R.T. 0.000 min
Lab File: BF136325.D
Acq: 30 Nov 2023 21:17



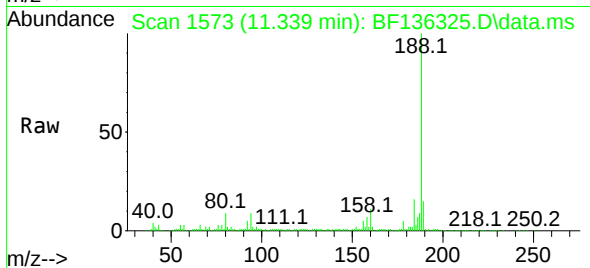
Tgt Ion:166 Resp: 1282443
Ion Ratio Lower Upper
166 100
165 107.9 86.2 129.4
167 11.8 9.1 13.7





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.339 min Scan# 11
Delta R.T. 0.006 min
Lab File: BF136325.D
Acq: 30 Nov 2023 21:17

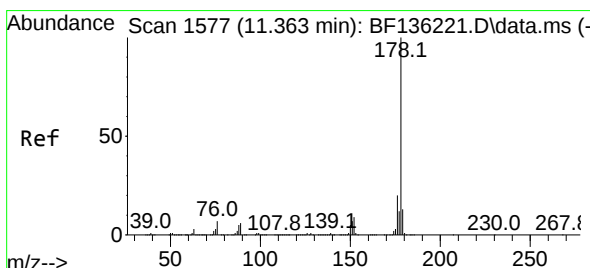
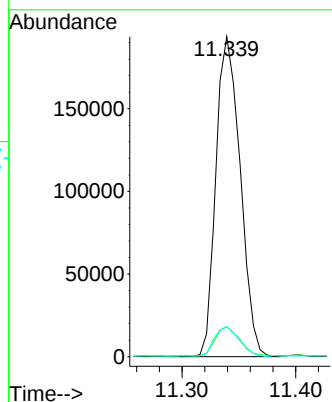
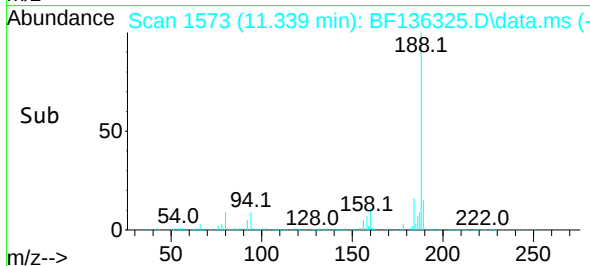
Instrument :
BNA_F
ClientSampleId :
EO-03-112923



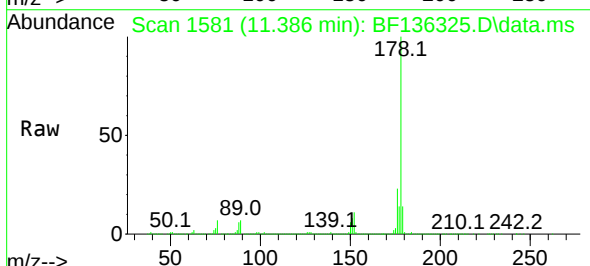
Tgt Ion:188 Resp: 287960
Ion Ratio Lower Upper
188 100
94 9.3 6.7 10.1
80 9.4 7.2 10.8

Manual Integrations
APPROVED

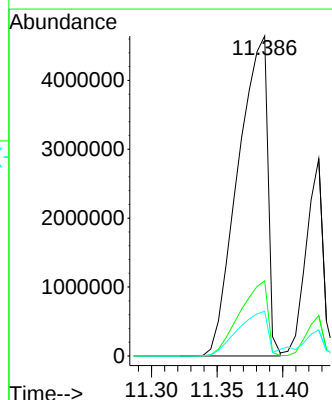
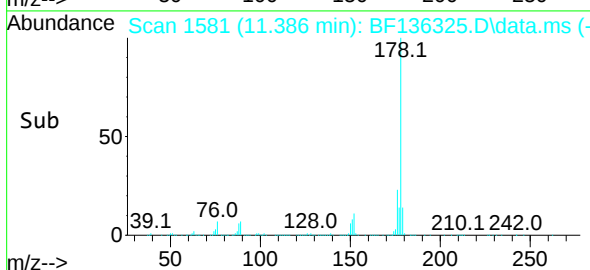
Reviewed By :Yogesh Patel 12/01/2023
Supervised By :mohammad ahmed 12/01/2023

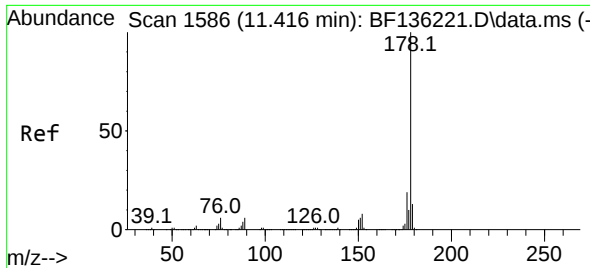


#71
Phenanthrene
Concen: 450.205 ng
RT: 11.386 min Scan# 1581
Delta R.T. 0.024 min
Lab File: BF136325.D
Acq: 30 Nov 2023 21:17



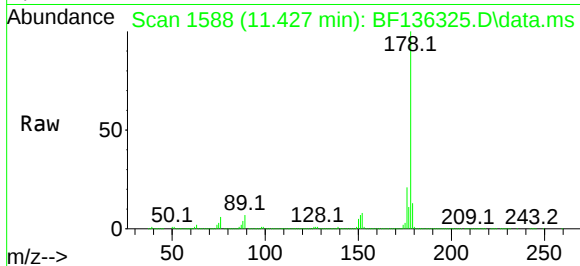
Tgt Ion:178 Resp: 7286410
Ion Ratio Lower Upper
178 100
176 23.4 16.2 24.2
179 14.0 10.3 15.5





#72
 Anthracene
 Concen: 158.253 ng
 RT: 11.427 min Scan# 1586
 Delta R.T. 0.012 min
 Lab File: BF136325.D
 Acq: 30 Nov 2023 21:17

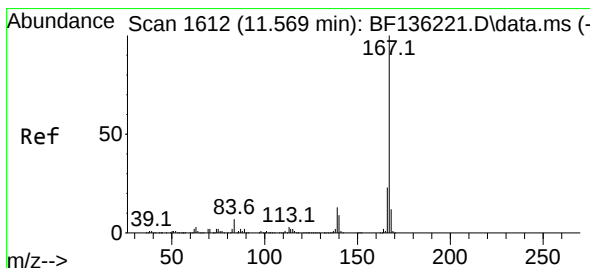
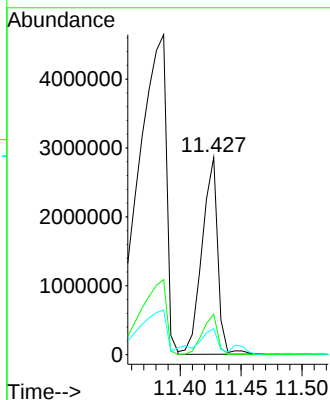
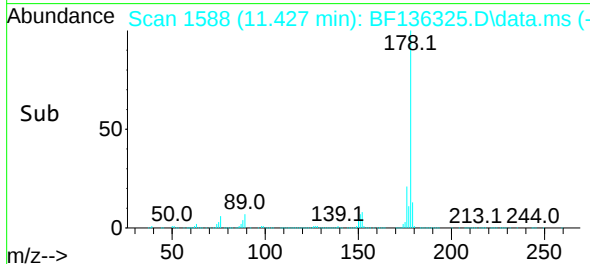
Instrument :
 BNA_F
 ClientSampleId :
 EO-03-112923



Tgt Ion:178 Resp: 2568504
 Ion Ratio Lower Upper
 178 100
 176 20.6 15.5 23.3
 179 13.3 10.5 15.7

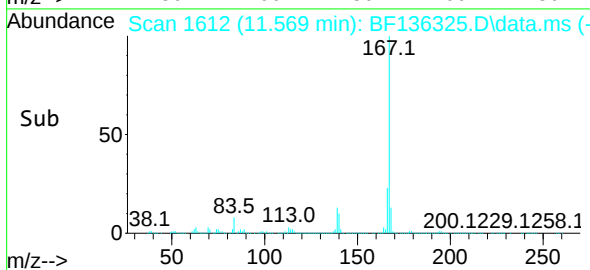
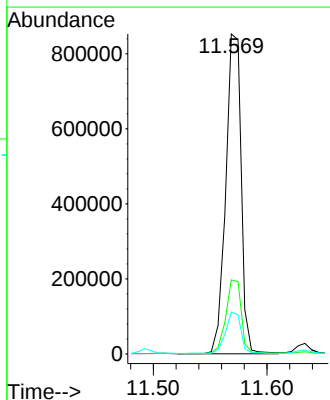
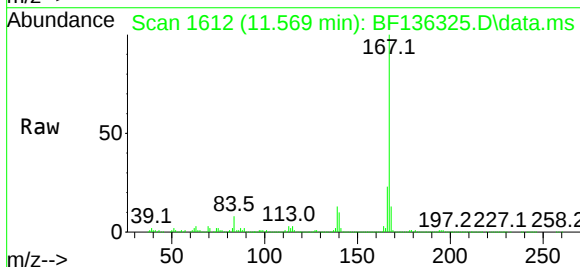
Manual Integrations
 APPROVED

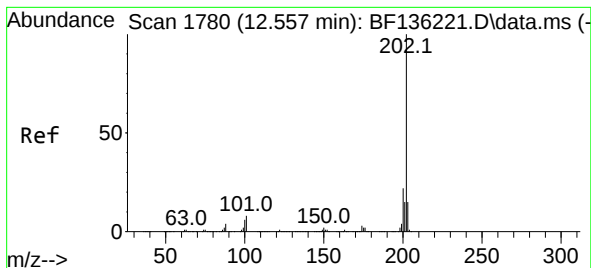
Reviewed By :Yogesh Patel 12/01/2023
 Supervised By :mohammad ahmed 12/01/2023



#73
 Carbazole
 Concen: 58.308 ng
 RT: 11.569 min Scan# 1612
 Delta R.T. 0.000 min
 Lab File: BF136325.D
 Acq: 30 Nov 2023 21:17

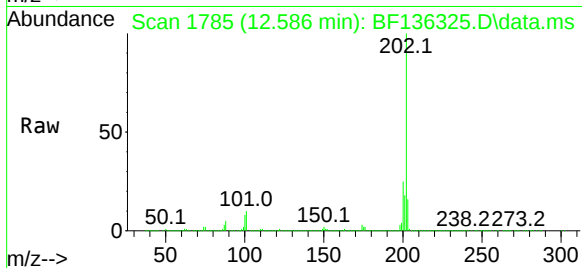
Tgt Ion:167 Resp: 804880
 Ion Ratio Lower Upper
 167 100
 166 23.1 18.4 27.6
 139 13.1 10.5 15.7





#75
Fluoranthene
Concen: 498.540 ng
RT: 12.586 min Scan# 11
Delta R.T. 0.030 min
Lab File: BF136325.D
Acq: 30 Nov 2023 21:17

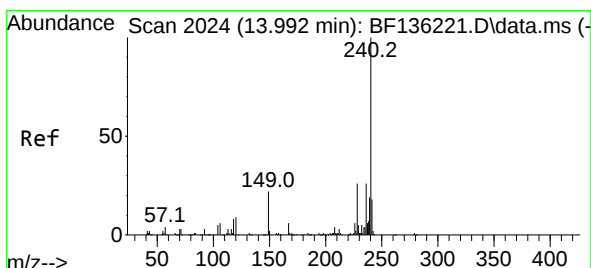
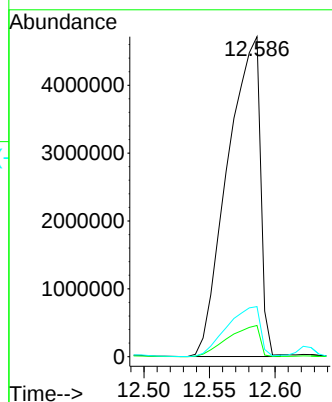
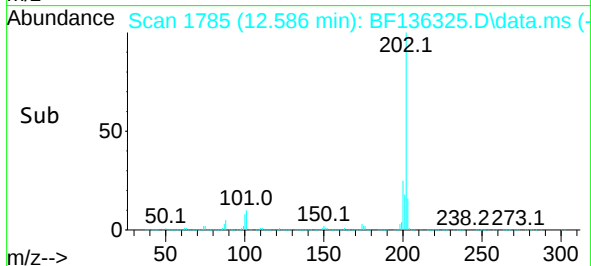
Instrument :
BNA_F
ClientSampleId :
EO-03-112923



Tgt Ion:202 Resp: 8191098
Ion Ratio Lower Upper
202 100
101 9.8 0.0 27.8
203 15.7 0.0 34.5

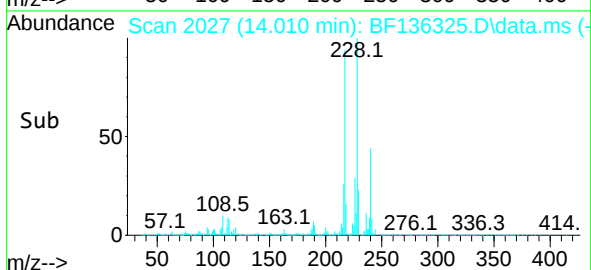
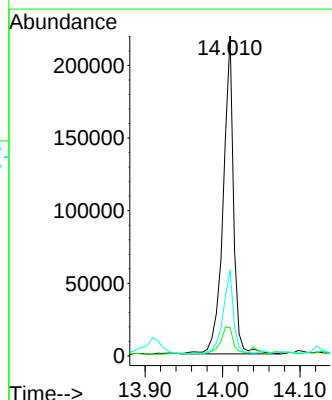
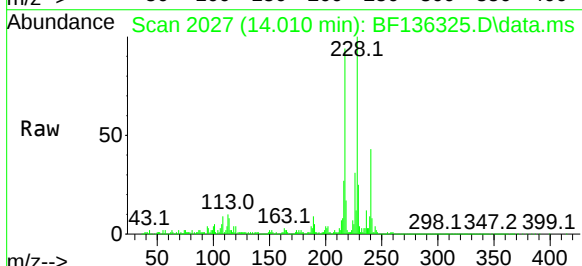
Manual Integrations
APPROVED

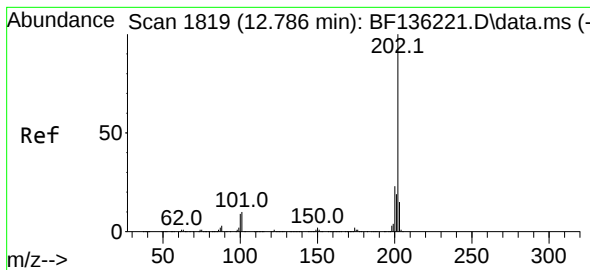
Reviewed By :Yogesh Patel 12/01/2023
Supervised By :mohammad ahmed 12/01/2023



#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.010 min Scan# 2027
Delta R.T. 0.018 min
Lab File: BF136325.D
Acq: 30 Nov 2023 21:17

Tgt Ion:240 Resp: 205013
Ion Ratio Lower Upper
240 100
120 8.9 7.4 11.2
236 26.6 21.1 31.7





#78

Pyrene

Concen: 311.591 ng

RT: 12.816 min Scan# 1824

Delta R.T. 0.030 min

Lab File: BF136325.D

Acq: 30 Nov 2023 21:17

Instrument :

BNA_F

ClientSampleId :

EO-03-112923

Tgt Ion:202 Resp: 6995992

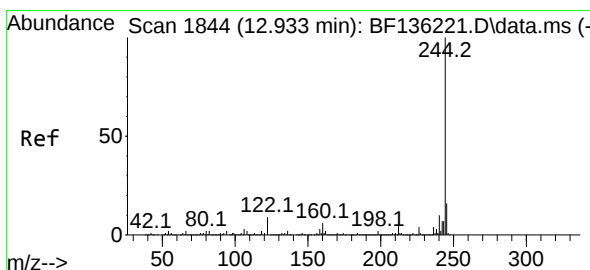
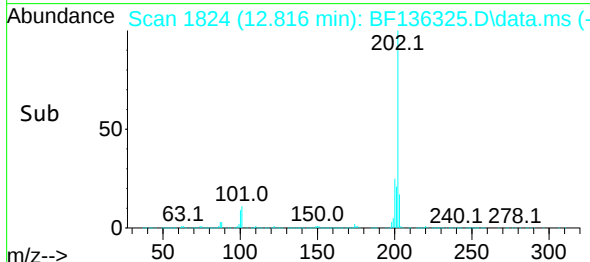
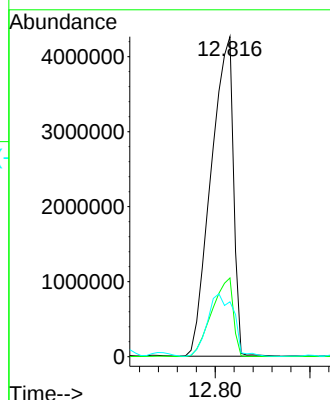
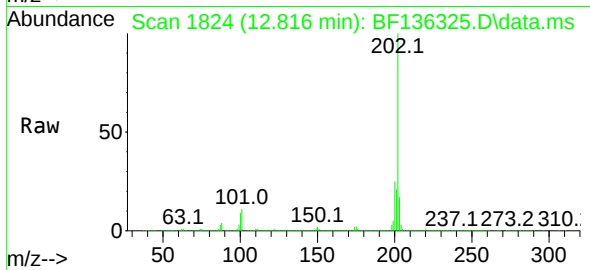
Ion	Ratio	Lower	Upper
202	100		
200	24.6	18.4	27.6
203	17.1	11.8	17.6

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/01/2023

Supervised By :mohammad ahmed 12/01/2023



#79

Terphenyl-d14

Concen: 27.815 ng

RT: 12.933 min Scan# 1844

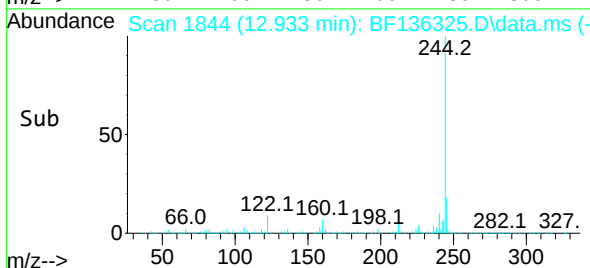
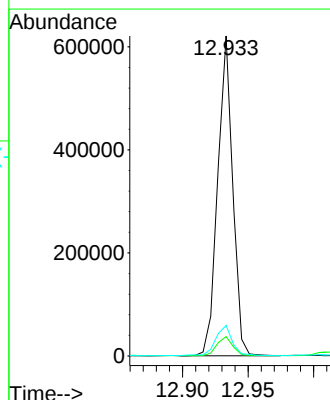
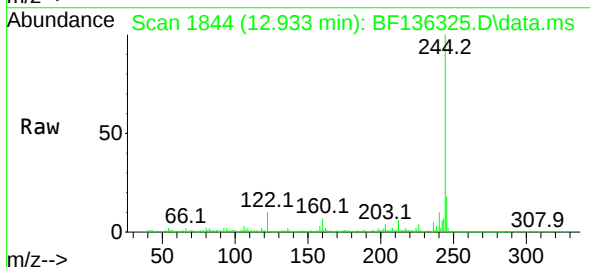
Delta R.T. 0.000 min

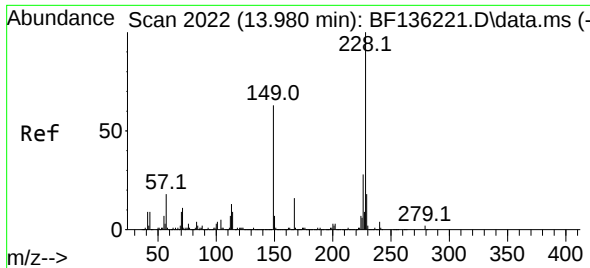
Lab File: BF136325.D

Acq: 30 Nov 2023 21:17

Tgt Ion:244 Resp: 494360

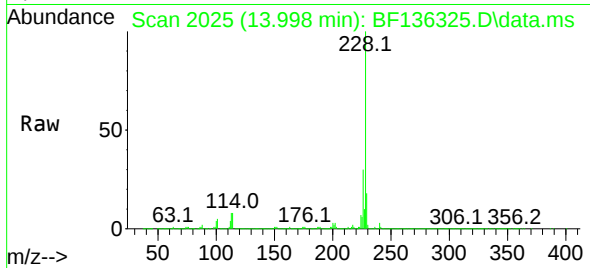
Ion	Ratio	Lower	Upper
244	100		
212	6.1	4.6	7.0
122	9.5	7.3	10.9





#81
Benzo(a)anthracene
Concen: 236.524 ng
RT: 13.998 min Scan# 2025
Delta R.T. 0.018 min
Lab File: BF136325.D
Acq: 30 Nov 2023 21:17

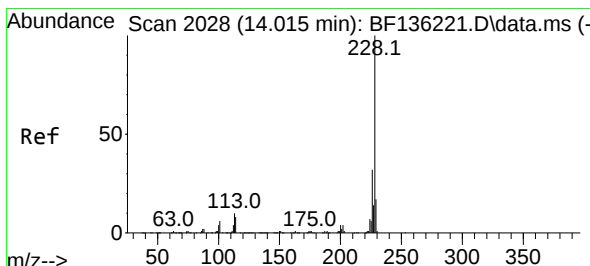
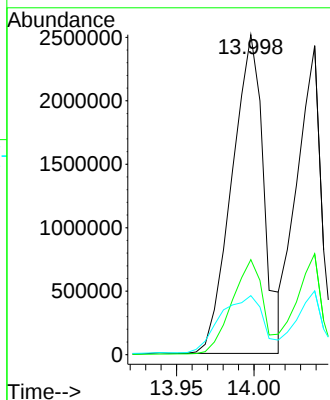
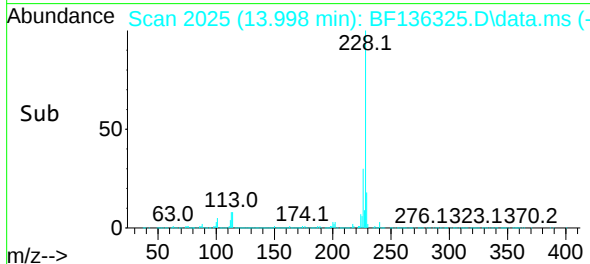
Instrument :
BNA_F
ClientSampleId :
EO-03-112923



Tgt Ion:228 Resp: 3601714
Ion Ratio Lower Upper
228 100
226 29.7 22.6 34.0
229 18.5 14.0 21.0

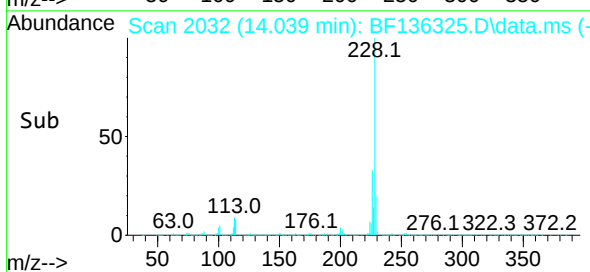
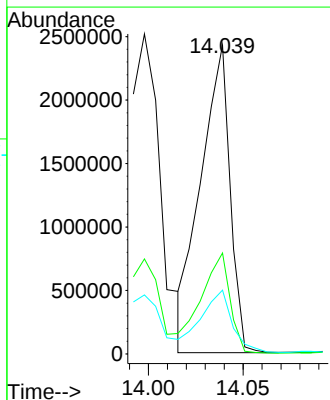
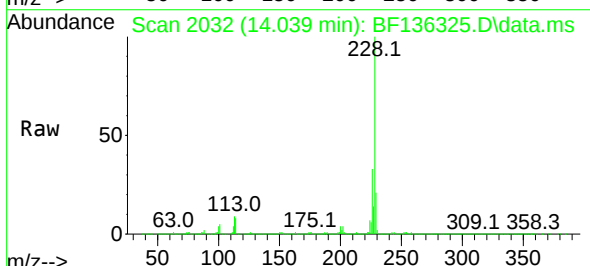
Manual Integrations
APPROVED

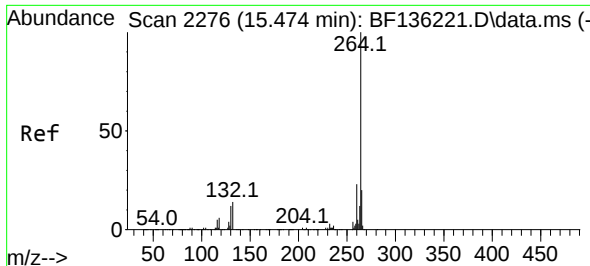
Reviewed By :Yogesh Patel 12/01/2023
Supervised By :mohammad ahmed 12/01/2023



#83
Chrysene
Concen: 177.304 ng
RT: 14.039 min Scan# 2032
Delta R.T. 0.024 min
Lab File: BF136325.D
Acq: 30 Nov 2023 21:17

Tgt Ion:228 Resp: 2606890
Ion Ratio Lower Upper
228 100
226 32.7 25.5 38.3
229 20.7 13.9 20.9





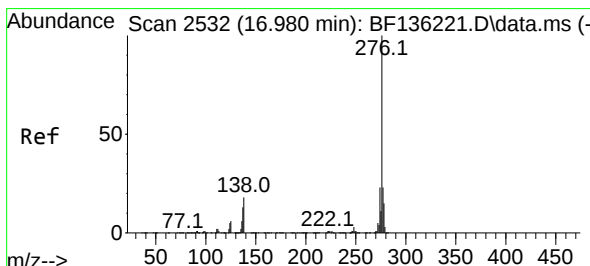
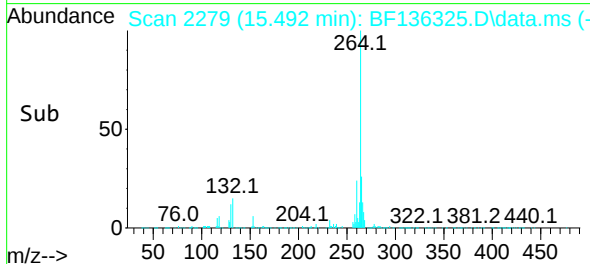
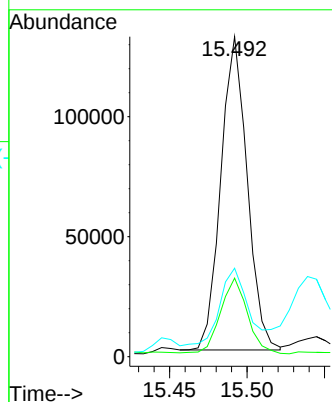
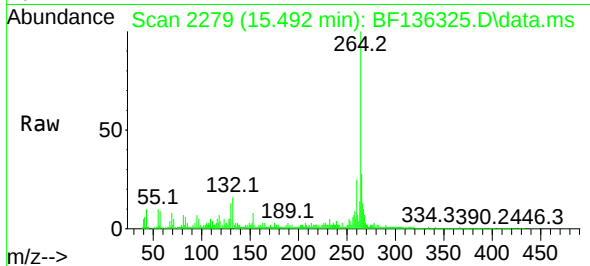
#86
Perylene-d12
Concen: 20.000 ng
RT: 15.492 min Scan# 21
Delta R.T. 0.018 min
Lab File: BF136325.D
Acq: 30 Nov 2023 21:17

Instrument :
BNA_F
ClientSampleId :
EO-03-112923

Tgt Ion:264 Resp: 15445
Ion Ratio Lower Upper
264 100
260 24.6 18.6 27.8
265 27.6 15.7 23.5

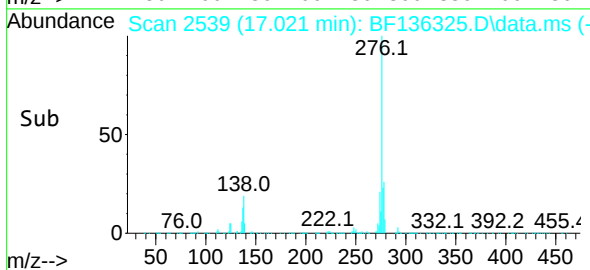
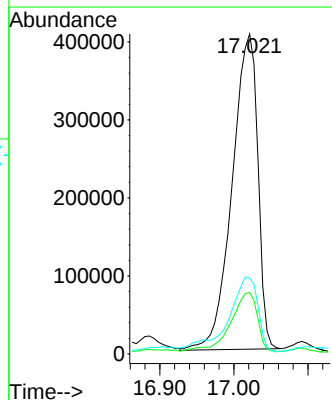
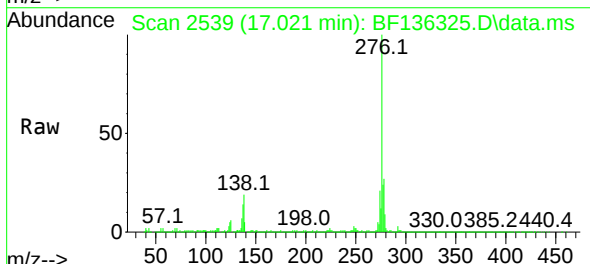
Manual Integrations
APPROVED

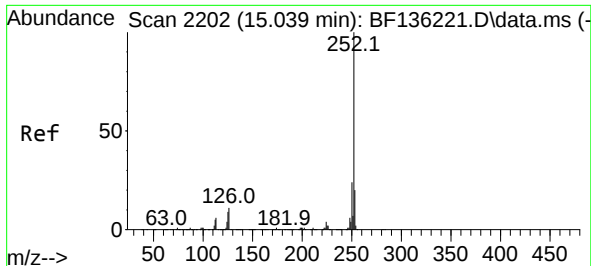
Reviewed By :Yogesh Patel 12/01/2023
Supervised By :mohammad ahmed 12/01/2023



#87
Indeno(1,2,3-cd)pyrene
Concen: 82.135 ng
RT: 17.021 min Scan# 2539
Delta R.T. 0.041 min
Lab File: BF136325.D
Acq: 30 Nov 2023 21:17

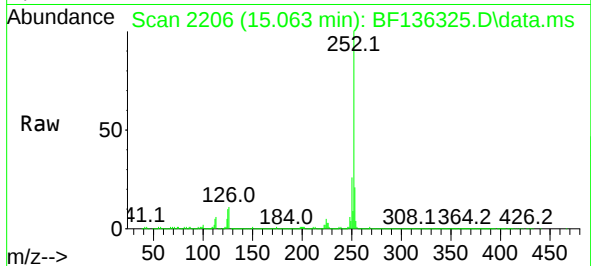
Tgt Ion:276 Resp: 971574
Ion Ratio Lower Upper
276 100
138 19.7 17.7 26.5
277 27.5 19.6 29.4





#88
Benzo(b)fluoranthene
Concen: 232.637 ng m
RT: 15.063 min Scan# 2110
Delta R.T. 0.024 min
Lab File: BF136325.D
Acq: 30 Nov 2023 21:17

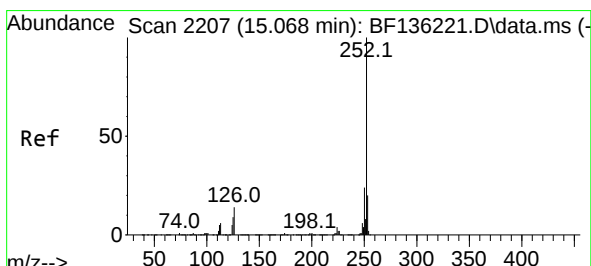
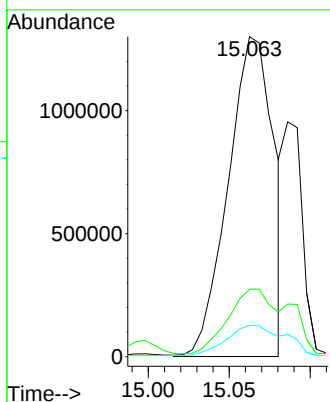
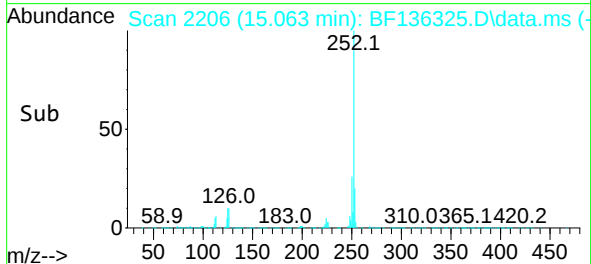
Instrument :
BNA_F
ClientSampleId :
EO-03-112923



Tgt Ion:252 Resp: 252096
Ion Ratio Lower Upper
252 100
253 21.1 16.2 24.2
125 9.9 6.9 10.3

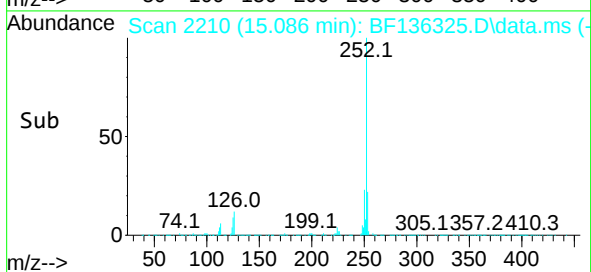
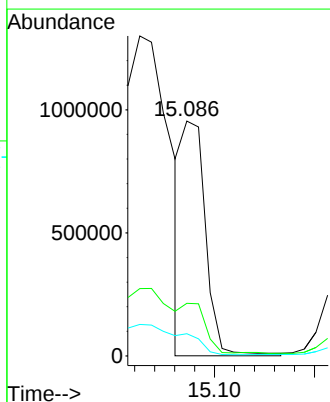
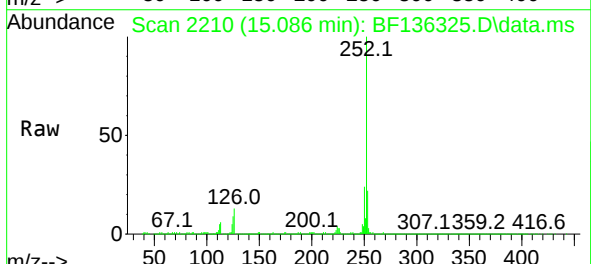
Manual Integrations
APPROVED

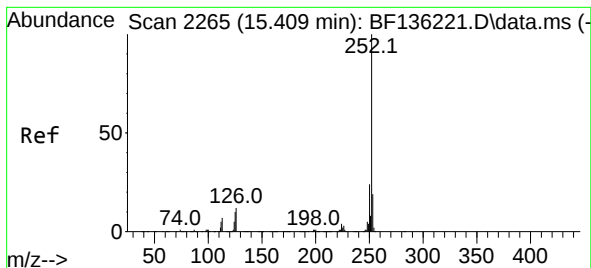
Reviewed By :Yogesh Patel 12/01/2023
Supervised By :mohammad ahmed 12/01/2023



#89
Benzo(k)fluoranthene
Concen: 76.309 ng m
RT: 15.086 min Scan# 2210
Delta R.T. 0.018 min
Lab File: BF136325.D
Acq: 30 Nov 2023 21:17

Tgt Ion:252 Resp: 785377
Ion Ratio Lower Upper
252 100
253 22.4 15.6 23.4
125 9.5 7.0 10.4





#90

Benzo(a)pyrene

Concen: 192.750 ng

RT: 15.445 min Scan# 21

Delta R.T. 0.036 min

Lab File: BF136325.D

Acq: 30 Nov 2023 21:17

Instrument :

BNA_F

ClientSampleId :

EO-03-112923

Tgt Ion:252 Resp: 170749

Ion Ratio Lower Upper

252 100

253 21.7 15.5 23.3

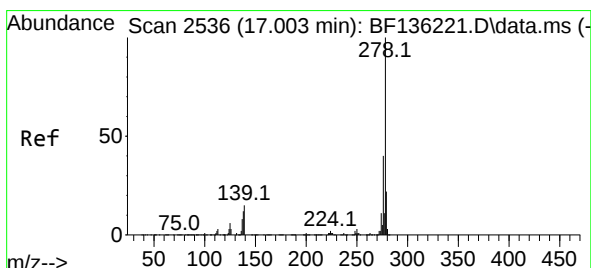
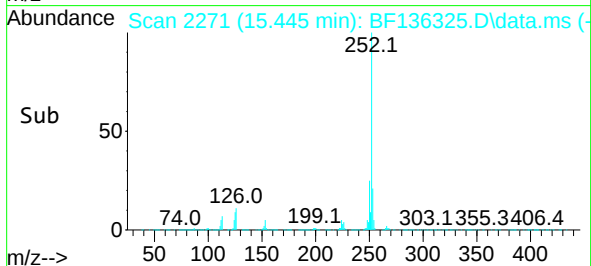
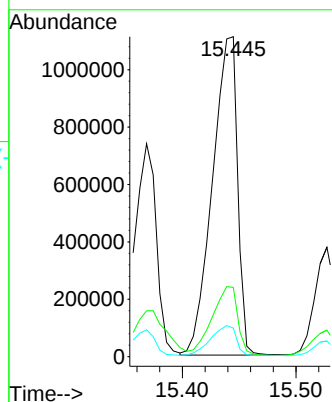
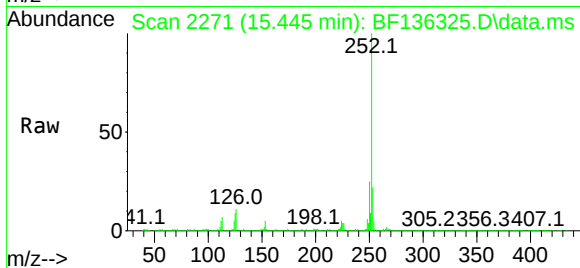
125 8.9 7.9 11.9

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/01/2023

Supervised By :mohammad ahmed 12/01/2023



#91

Dibenzo(a,h)anthracene

Concen: 25.239 ng m

RT: 17.027 min Scan# 2540

Delta R.T. 0.024 min

Lab File: BF136325.D

Acq: 30 Nov 2023 21:17

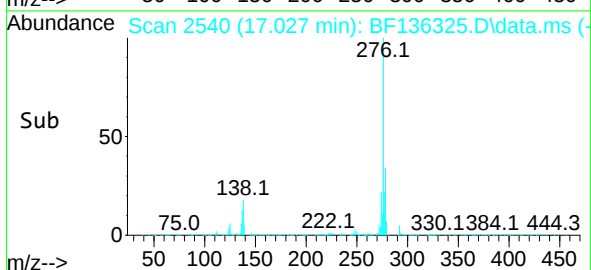
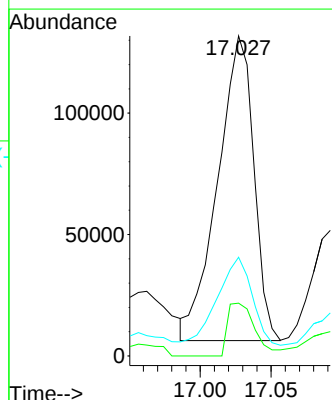
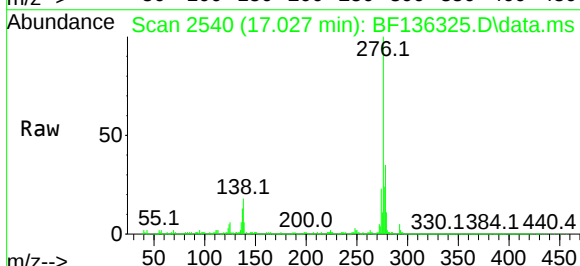
Tgt Ion:278 Resp: 221241

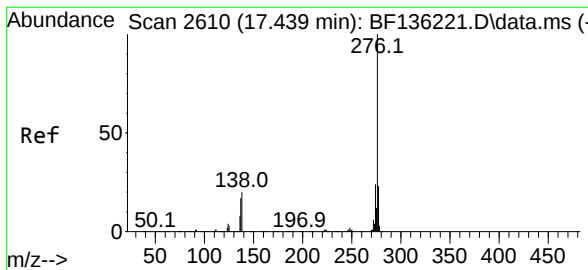
Ion Ratio Lower Upper

278 100

139 16.5 11.7 17.5

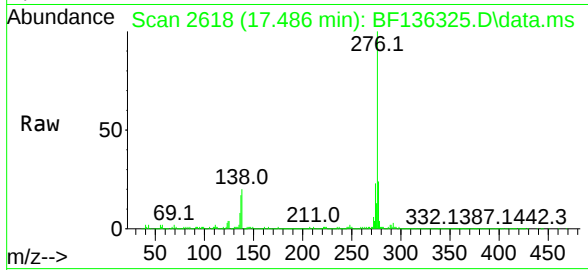
279 30.8 17.8 26.8#





#92
 Benzo(g,h,i)perylene
 Concen: 94.226 ng
 RT: 17.486 min Scan# 20
 Delta R.T. 0.047 min
 Lab File: BF136325.D
 Acq: 30 Nov 2023 21:17

Instrument :
 BNA_F
 ClientSampleId :
 EO-03-112923



Tgt Ion:276 Resp: 893864
 Ion Ratio Lower Upper
 276 100
 277 23.6 18.6 27.8
 138 19.9 15.8 23.8

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 12/01/2023
 Supervised By :mohammad ahmed 12/01/2023

