

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF103123\
 Data File : BF136048.D
 Acq On : 31 Oct 2023 13:31
 Operator : CG\JU
 Sample : 04704-03DL 20X
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 R-2(5-10)DL

Quant Time: Oct 31 14:08:34 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

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/01/2023
 Supervised By :mohammad ahmed 11/01/2023

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.822	152	172243	20.000	ng	0.00
21) Naphthalene-d8	8.104	136	664640	20.000	ng	0.00
39) Acenaphthene-d10	9.863	164	318534	20.000	ng	0.00
64) Phenanthrene-d10	11.357	188	496662	20.000	ng	0.00
76) Chrysene-d12	14.010	240	311161	20.000	ng	0.00
86) Perylene-d12	15.504	264	401983	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.440	112	41745	3.808	ng	-0.01
7) Phenol-d6	6.440	99	57548	4.214	ng	-0.02
23) Nitrobenzene-d5	7.375	82	30956	2.808	ng	-0.02
42) 2,4,6-Tribromophenol	10.651	330	9910	2.915	ng	0.00
45) 2-Fluorobiphenyl	9.181	172	67947	3.400	ng	0.00
79) Terphenyl-d14	12.951	244	52433	2.619	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.122	128	292644	9.131	ng	100
37) 2-Methylnaphthalene	8.816	142	190922	8.884	ng	99
38) 1-Methylnaphthalene	8.916	142	325853	16.293	ng	100
46) 1,1'-Biphenyl	9.281	154	109405	4.506	ng	97
49) Acenaphthylene	9.722	152	140184	5.020	ng	# 96
52) Acenaphthene	9.892	154	54202	3.053	ng	95
55) Dibenzofuran	10.063	168	53113	2.052	ng	# 83
58) Fluorene	10.410	166	262406	13.539	ng	100
71) Phenanthrene	11.380	178	1202218	48.075	ng	99
72) Anthracene	11.428	178	181547	7.085	ng	98
75) Fluoranthene	12.575	202	502954	19.578	ng	98
78) Pyrene	12.804	202	724741	26.418	ng	100
81) Benzo(a)anthracene	13.998	228	286175m	13.892	ng	
83) Chrysene	14.033	228	265828	13.103	ng	96
87) Indeno(1,2,3-cd)pyrene	17.004	276	123722	4.709	ng	96
88) Benzo(b)fluoranthene	15.063	252	248134m	10.432	ng	
89) Benzo(k)fluoranthene	15.086	252	65808m	2.796	ng	
90) Benzo(a)pyrene	15.433	252	267479	12.103	ng	99
92) Benzo(g,h,i)perylene	17.462	276	132381	7.972	ng	98

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

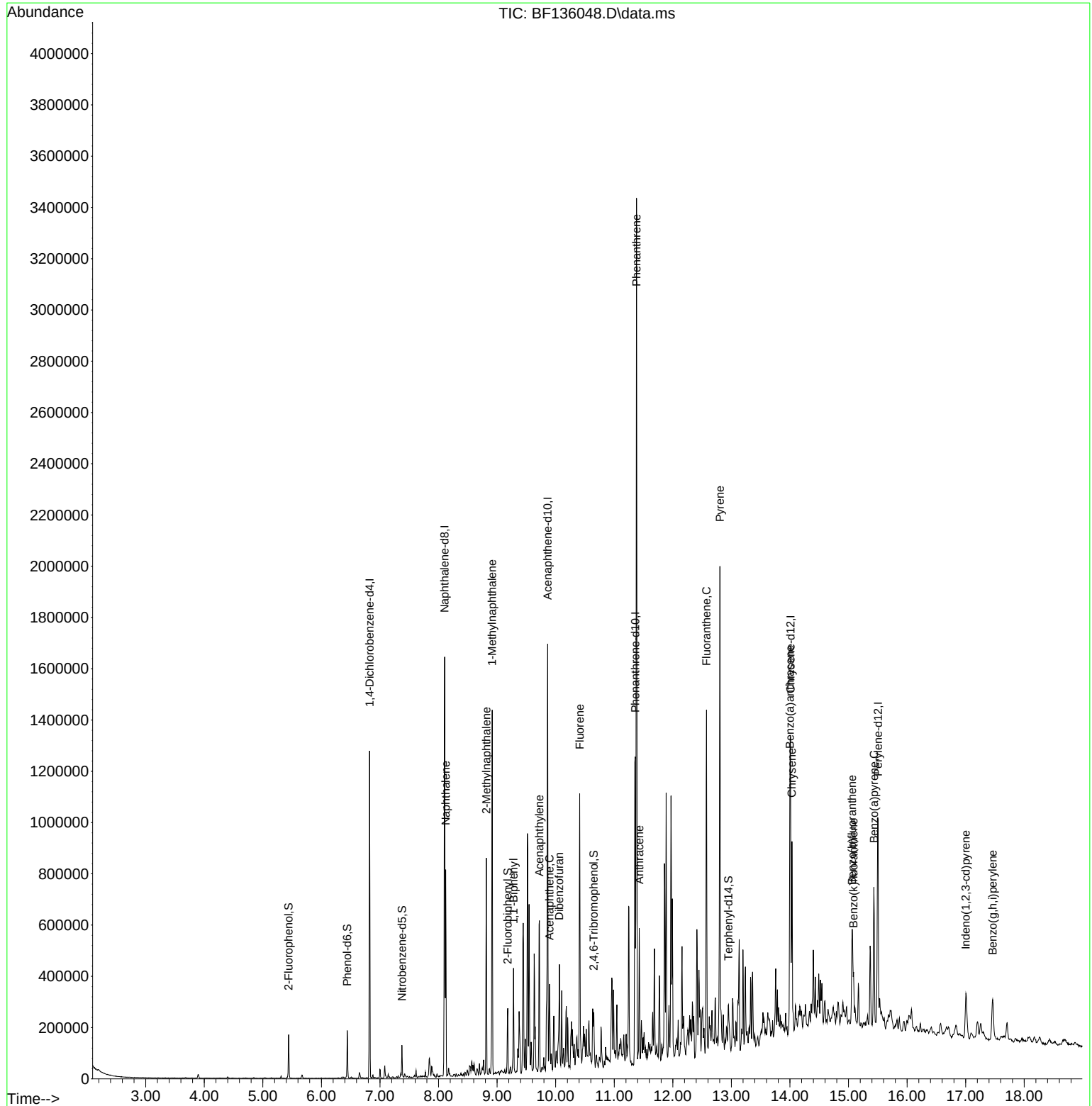
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF103123\
Data File : BF136048.D
Acq On : 31 Oct 2023 13:31
Operator : CG\JU
Sample : 04704-03DL 20X
Misc :
ALS Vial : 6 Sample Multiplier: 1

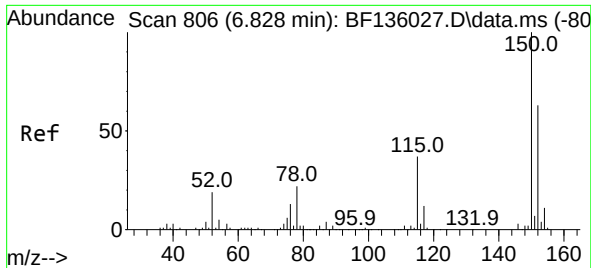
Instrument :
BNA_F
ClientSampleId :
R-2(5-10)DL

Quant Time: Oct 31 14:08:34 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
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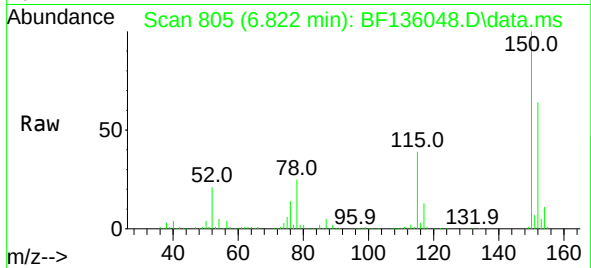
Reviewed By :Yogesh Patel 11/01/2023
Supervised By :mohammad ahmed 11/01/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.822 min Scan# 806
Delta R.T. -0.006 min
Lab File: BF136048.D
Acq: 31 Oct 2023 13:31

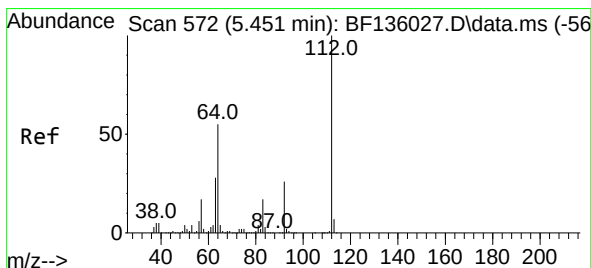
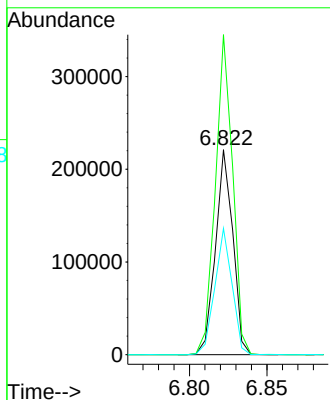
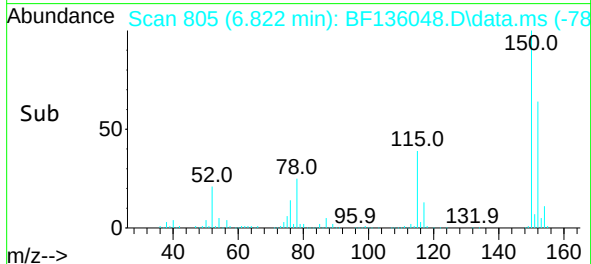
Instrument :
BNA_F
ClientSampleId :
R-2(5-10)DL



Tgt Ion:152 Resp: 17224
Ion Ratio Lower Upper
152 100
150 156.1 126.4 189.6
115 61.6 47.0 70.4

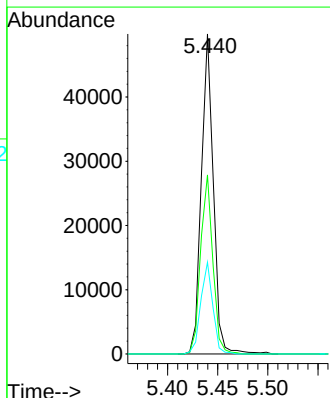
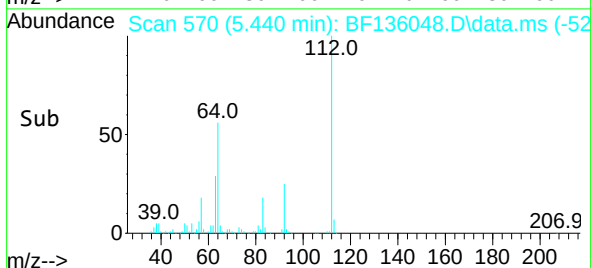
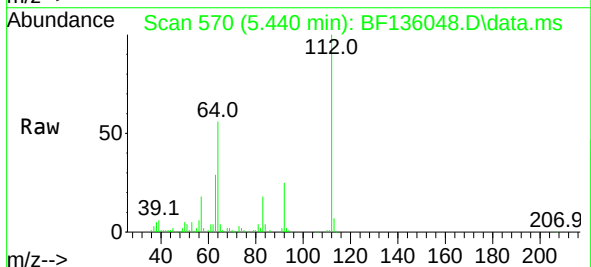
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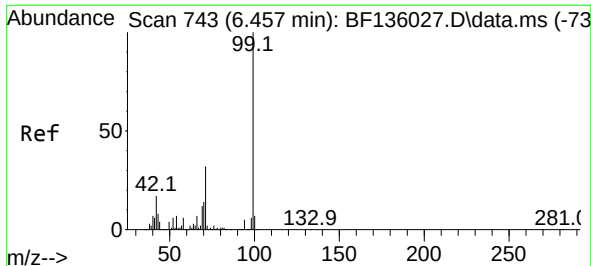
Reviewed By :Yogesh Patel 11/01/2023
Supervised By :mohammad ahmed 11/01/2023



#5
2-Fluorophenol
Concen: 3.808 ng
RT: 5.440 min Scan# 570
Delta R.T. -0.012 min
Lab File: BF136048.D
Acq: 31 Oct 2023 13:31

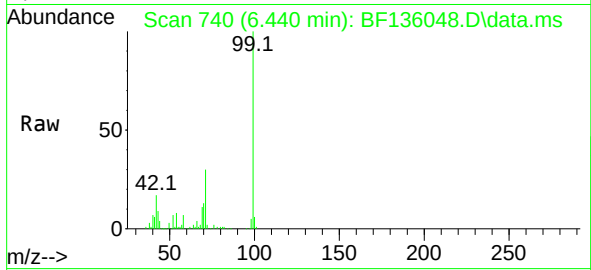
Tgt Ion:112 Resp: 41745
Ion Ratio Lower Upper
112 100
64 55.9 43.9 65.9
63 28.7 22.4 33.6





#7
Phenol-d6
Concen: 4.214 ng
RT: 6.440 min Scan# 743
Delta R.T. -0.017 min
Lab File: BF136048.D
Acq: 31 Oct 2023 13:31

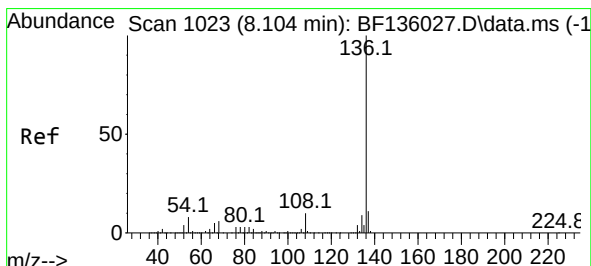
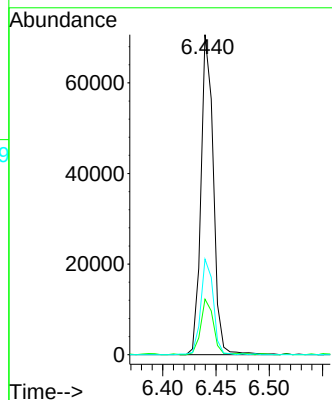
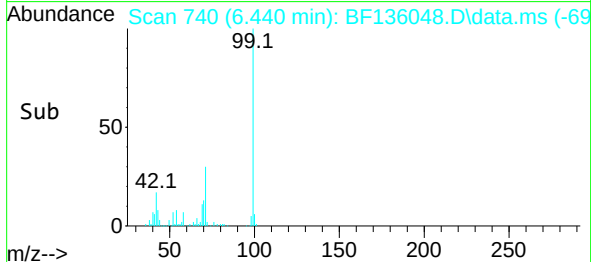
Instrument :
BNA_F
ClientSampleId :
R-2(5-10)DL



Tgt Ion: 99 Resp: 57548
Ion Ratio Lower Upper
99 100
42 17.4 13.7 20.5
71 29.8 25.9 38.9

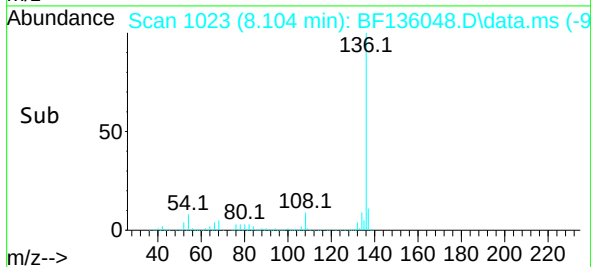
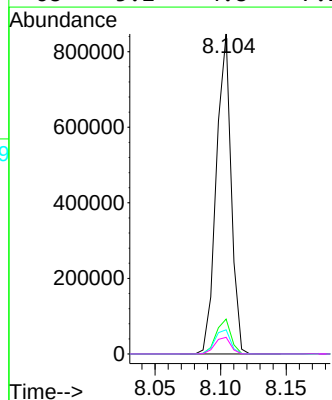
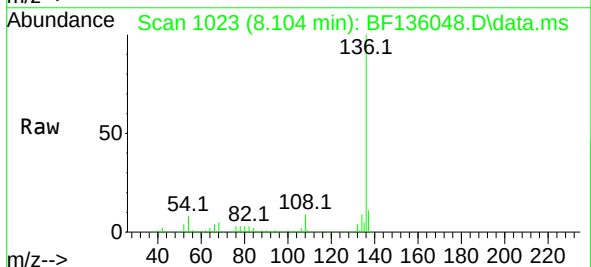
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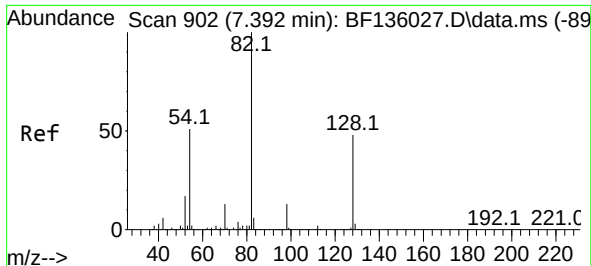
Reviewed By :Yogesh Patel 11/01/2023
Supervised By :mohammad ahmed 11/01/2023



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.104 min Scan# 1023
Delta R.T. 0.000 min
Lab File: BF136048.D
Acq: 31 Oct 2023 13:31

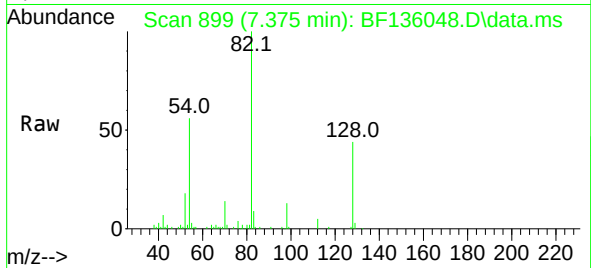
Tgt Ion:136 Resp: 664640
Ion Ratio Lower Upper
136 100
137 10.9 8.6 13.0
54 7.5 6.6 9.8
68 5.2 4.8 7.2





#23
Nitrobenzene-d5
Concen: 2.808 ng
RT: 7.375 min Scan# 899
Delta R.T. -0.017 min
Lab File: BF136048.D
Acq: 31 Oct 2023 13:31

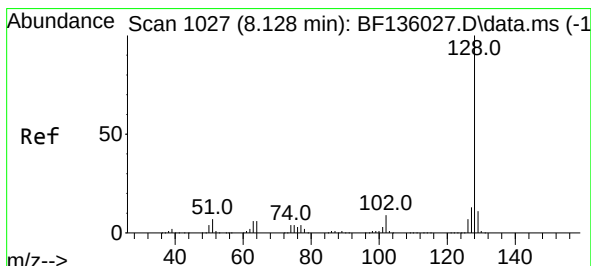
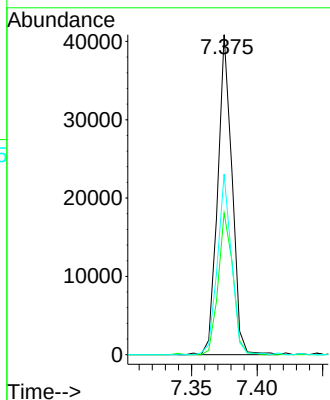
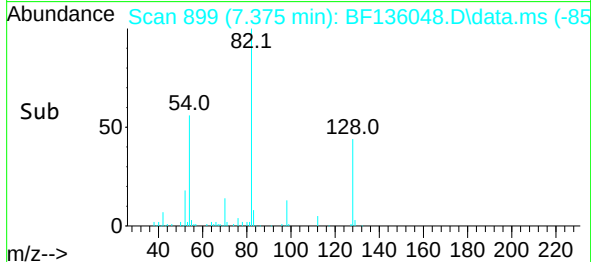
Instrument :
BNA_F
ClientSampleId :
R-2(5-10)DL



Tgt Ion: 82 Resp: 30950
Ion Ratio Lower Upper
82 100
128 44.3 38.6 57.8
54 56.4 40.8 61.2

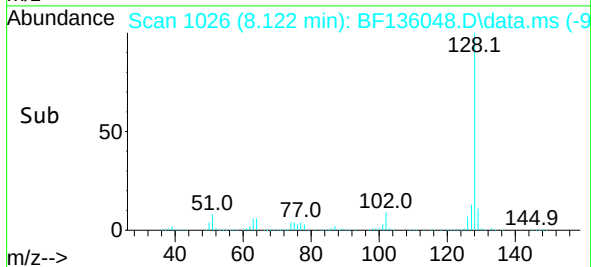
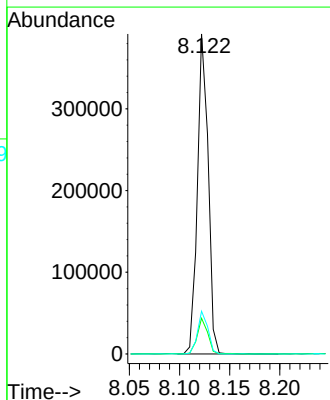
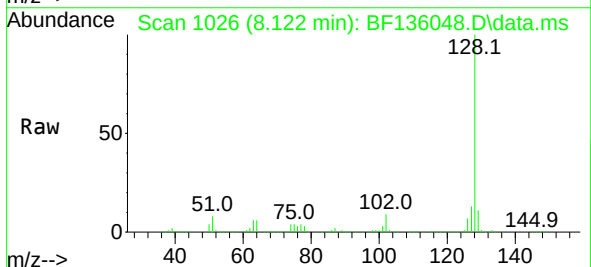
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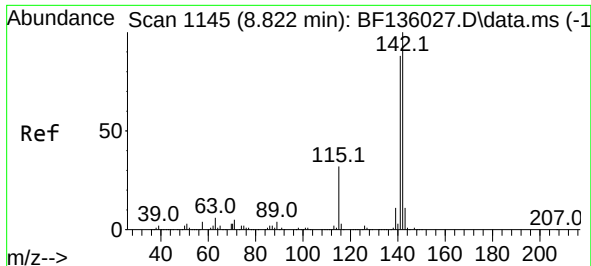
Reviewed By :Yogesh Patel 11/01/2023
Supervised By :mohammad ahmed 11/01/2023



#31
Naphthalene
Concen: 9.131 ng
RT: 8.122 min Scan# 1026
Delta R.T. -0.006 min
Lab File: BF136048.D
Acq: 31 Oct 2023 13:31

Tgt Ion:128 Resp: 292644
Ion Ratio Lower Upper
128 100
129 11.2 8.9 13.3
127 13.3 10.5 15.7





#37

2-Methylnaphthalene

Concen: 8.884 ng

RT: 8.816 min Scan# 1144

Delta R.T. -0.006 min

Lab File: BF136048.D

Acq: 31 Oct 2023 13:31

Instrument :

BNA_F

ClientSampleId :

R-2(5-10)DL

Tgt Ion:142 Resp: 19092

Ion Ratio Lower Upper

142 100

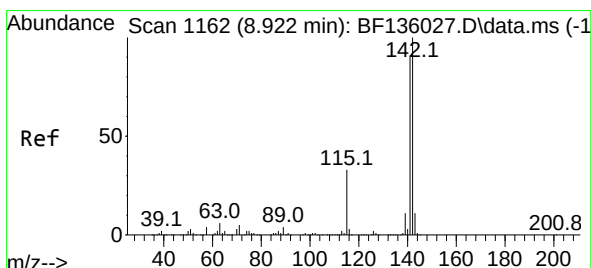
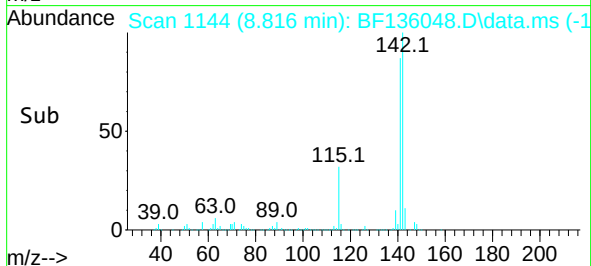
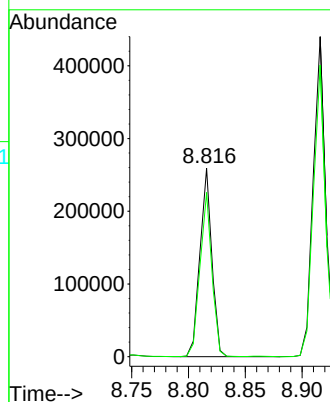
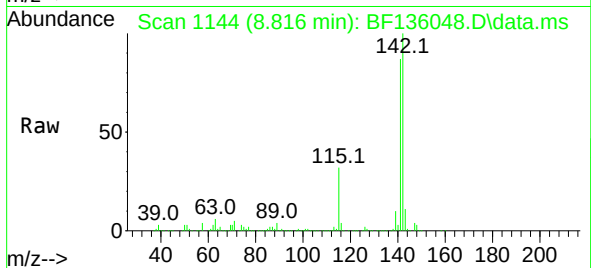
141 87.1 70.4 105.6

Manual Integrations

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Reviewed By :Yogesh Patel 11/01/2023

Supervised By :mohammad ahmed 11/01/2023



#38

1-Methylnaphthalene

Concen: 16.293 ng

RT: 8.916 min Scan# 1161

Delta R.T. -0.006 min

Lab File: BF136048.D

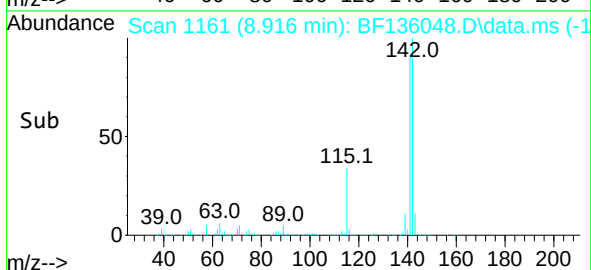
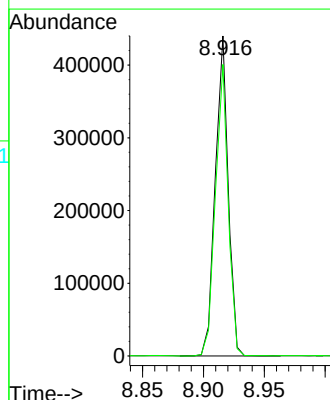
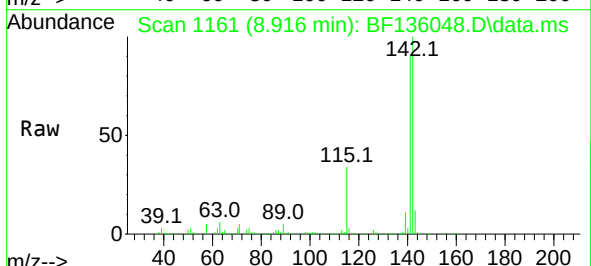
Acq: 31 Oct 2023 13:31

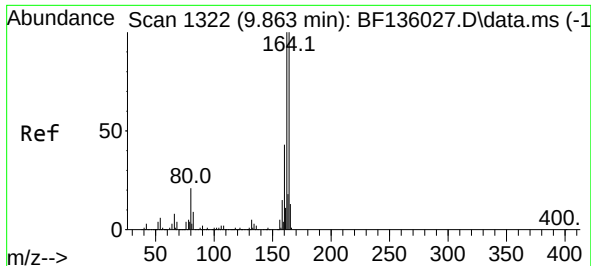
Tgt Ion:142 Resp: 325853

Ion Ratio Lower Upper

142 100

141 91.1 72.6 109.0





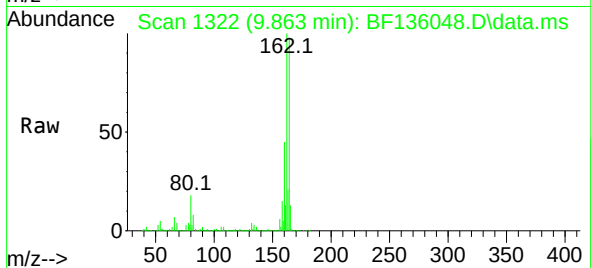
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.863 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF136048.D
Acq: 31 Oct 2023 13:31

Instrument :

BNA_F

ClientSampleId :

R-2(5-10)DL



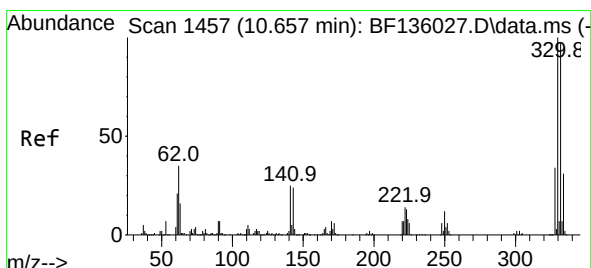
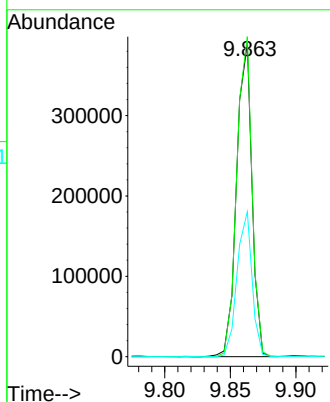
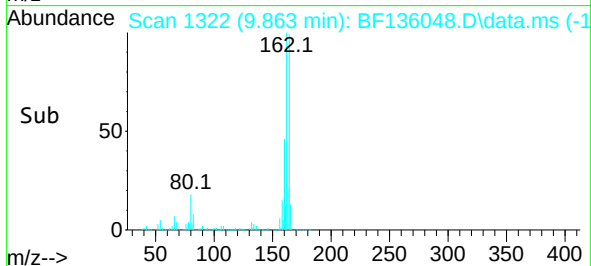
Tgt Ion:164 Resp: 318534
Ion Ratio Lower Upper
164 100
162 102.2 80.1 120.1
160 46.3 34.8 52.2

Manual Integrations

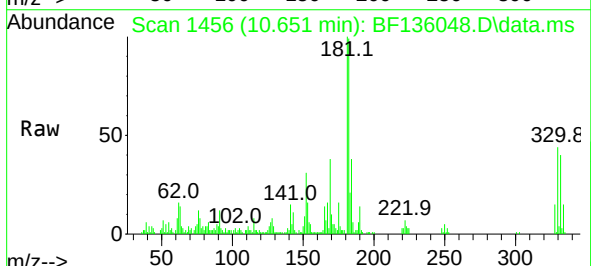
APPROVED

Reviewed By :Yogesh Patel 11/01/2023

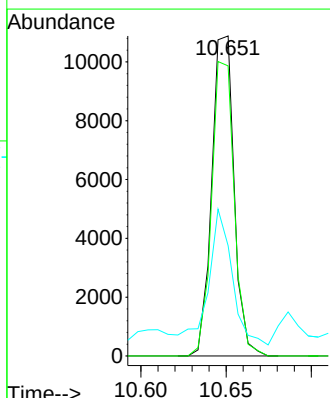
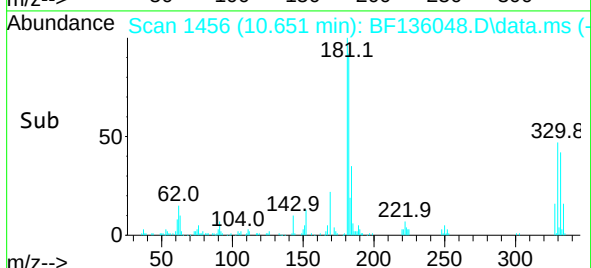
Supervised By :mohammad ahmed 11/01/2023

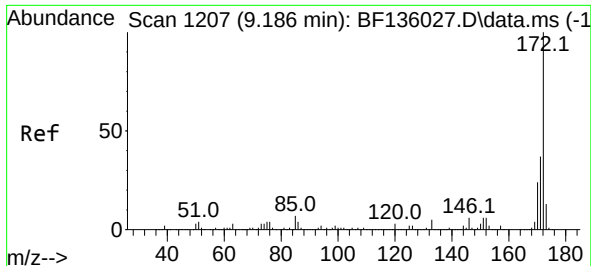


#42
2,4,6-Tribromophenol
Concen: 2.915 ng
RT: 10.651 min Scan# 1456
Delta R.T. -0.006 min
Lab File: BF136048.D
Acq: 31 Oct 2023 13:31



Tgt Ion:330 Resp: 9910
Ion Ratio Lower Upper
330 100
332 93.2 76.9 115.3
141 44.4 23.2 34.8#





#45

2-Fluorobiphenyl

Concen: 3.400 ng

RT: 9.181 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF136048.D

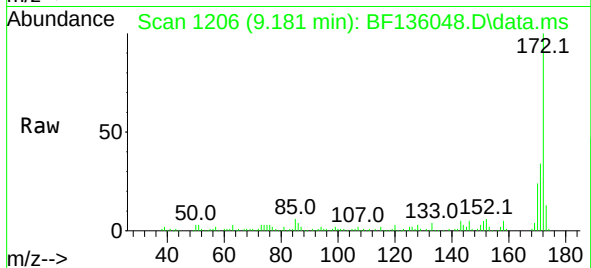
Acq: 31 Oct 2023 13:31

Instrument :

BNA_F

ClientSampleId :

R-2(5-10)DL



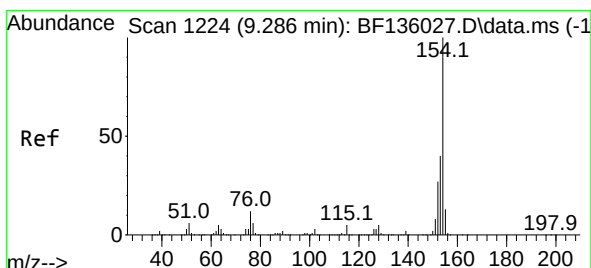
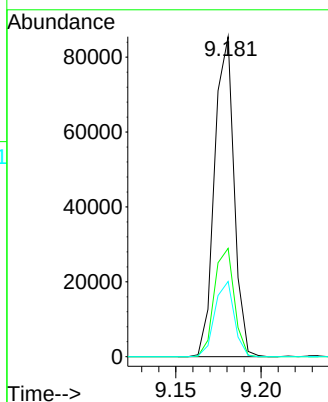
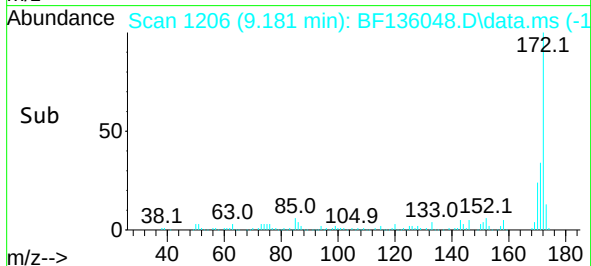
Tgt Ion:172	Resp:	6794
Ion Ratio	Lower	Upper
172	100	
171	33.9	29.4 44.0
170	23.5	19.3 28.9

Manual Integrations

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Supervised By :mohammad ahmed 11/01/2023



#46

1,1'-Biphenyl

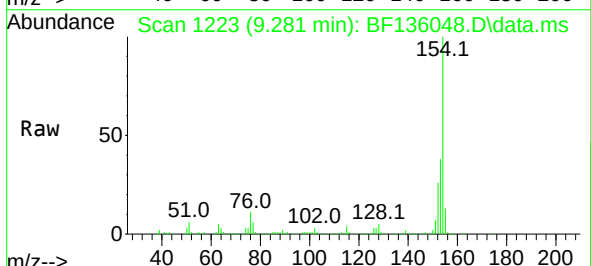
Concen: 4.506 ng

RT: 9.281 min Scan# 1223

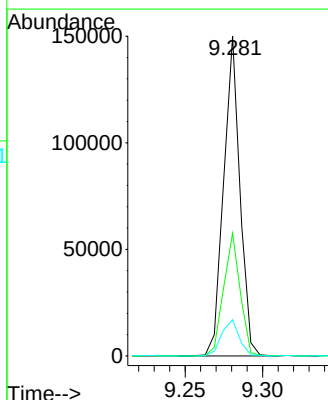
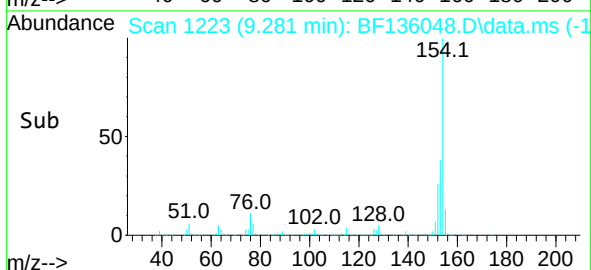
Delta R.T. -0.006 min

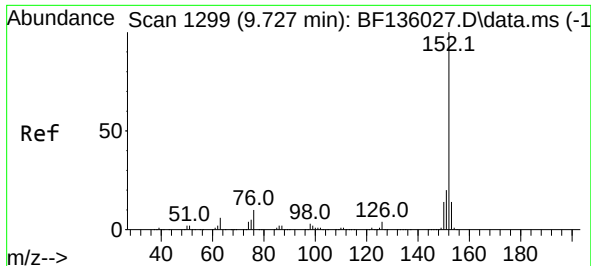
Lab File: BF136048.D

Acq: 31 Oct 2023 13:31



Tgt Ion:154	Resp:	109405
Ion Ratio	Lower	Upper
154	100	
153	38.4	20.1 60.1
76	11.4	0.0 32.5





#49

Acenaphthylene

Concen: 5.020 ng

RT: 9.722 min Scan# 1299

Delta R.T. -0.006 min

Lab File: BF136048.D

Acq: 31 Oct 2023 13:31

Instrument :

BNA_F

ClientSampleId :

R-2(5-10)DL

Tgt Ion:152 Resp: 140184

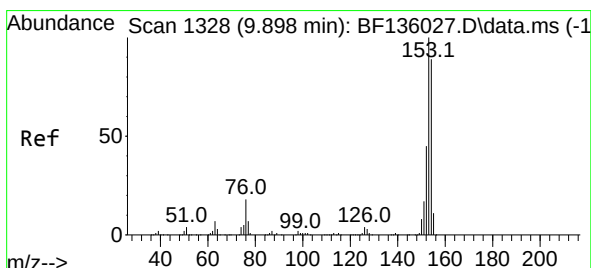
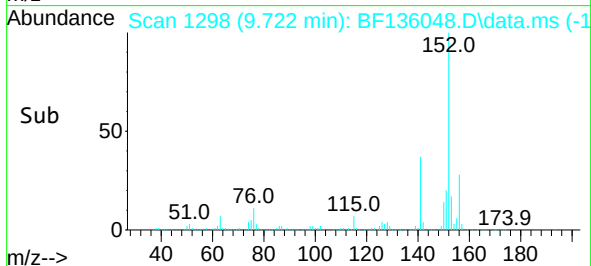
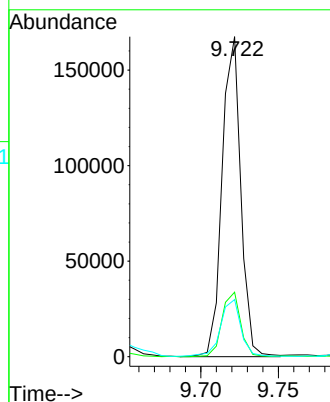
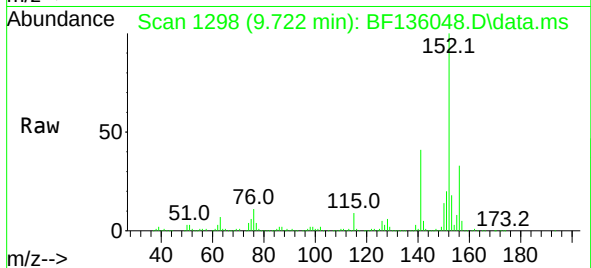
Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.1	24.1
153	17.9	11.4	17.2

Manual Integrations

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Reviewed By :Yogesh Patel 11/01/2023

Supervised By :mohammad ahmed 11/01/2023



#52

Acenaphthene

Concen: 3.053 ng

RT: 9.892 min Scan# 1327

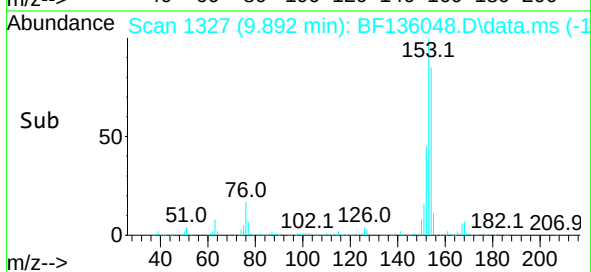
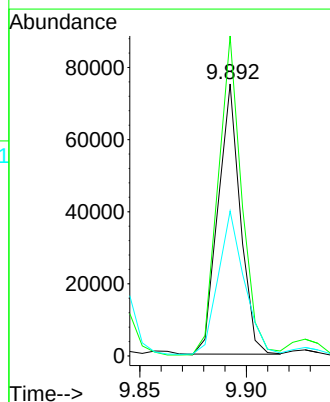
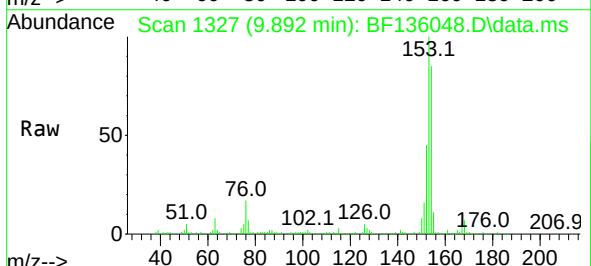
Delta R.T. -0.006 min

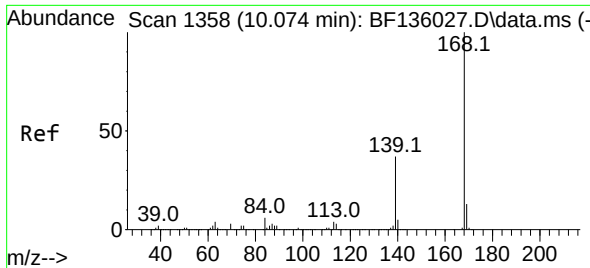
Lab File: BF136048.D

Acq: 31 Oct 2023 13:31

Tgt Ion:154 Resp: 54202

Ion	Ratio	Lower	Upper
154	100		
153	117.6	89.9	134.9
152	53.3	40.2	60.2





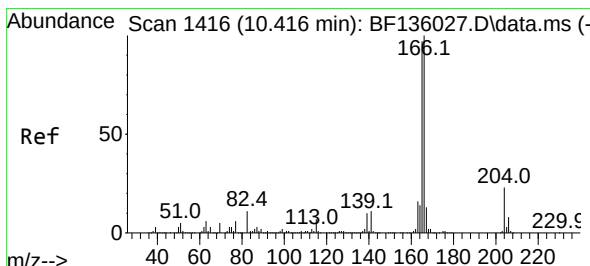
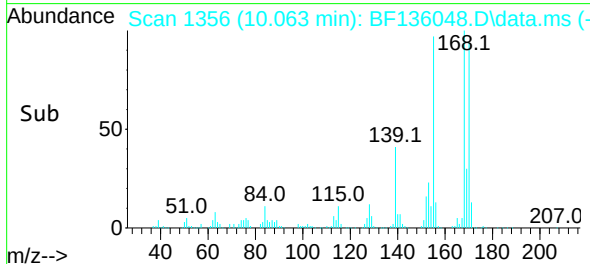
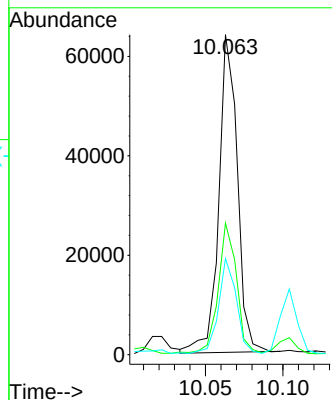
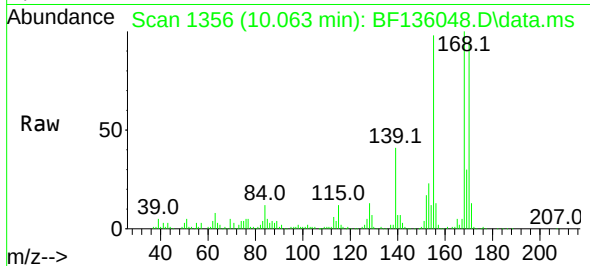
#55
Dibenzenofuran
Concen: 2.052 ng
RT: 10.063 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF136048.D
Acq: 31 Oct 2023 13:31

Instrument :
BNA_F
ClientSampleId :
R-2(5-10)DL

Tgt Ion:168 Resp: 5311
Ion Ratio Lower Upper
168 100
139 41.2 29.4 44.0
169 30.1 10.5 15.7

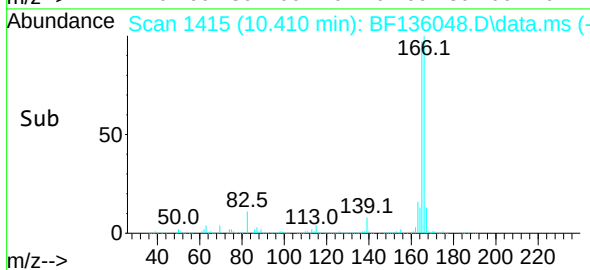
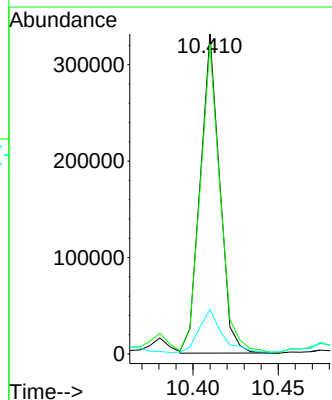
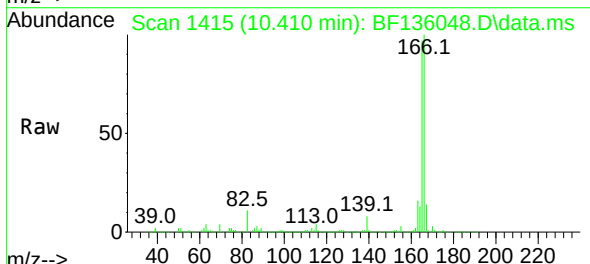
Manual Integrations
APPROVED

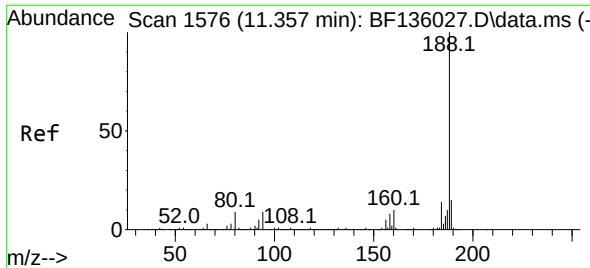
Reviewed By :Yogesh Patel 11/01/2023
Supervised By :mohammad ahmed 11/01/2023



#58
Fluorene
Concen: 13.539 ng
RT: 10.410 min Scan# 1415
Delta R.T. -0.006 min
Lab File: BF136048.D
Acq: 31 Oct 2023 13:31

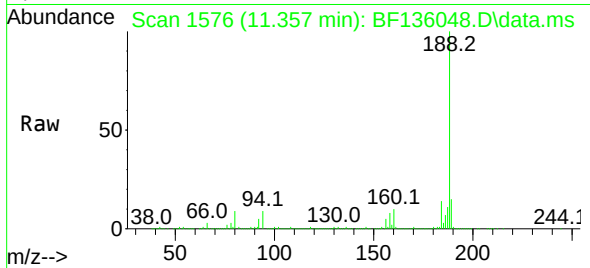
Tgt Ion:166 Resp: 262406
Ion Ratio Lower Upper
166 100
165 96.8 77.7 116.5
167 13.9 10.6 16.0





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.357 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF136048.D
Acq: 31 Oct 2023 13:31

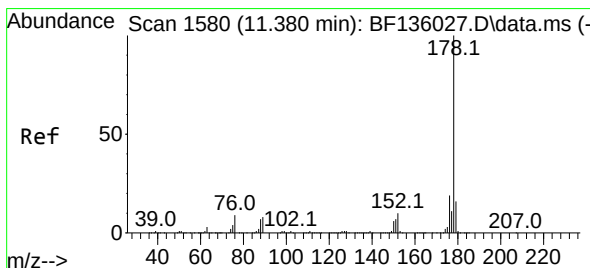
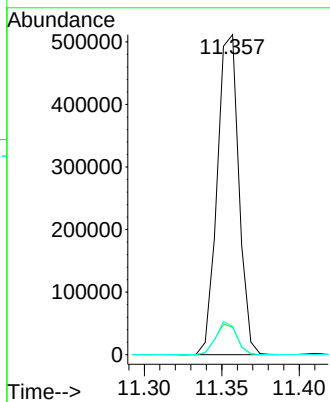
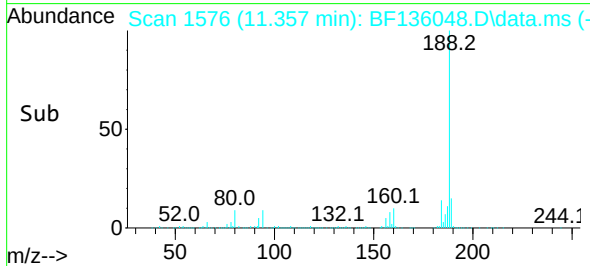
Instrument :
BNA_F
ClientSampleId :
R-2(5-10)DL



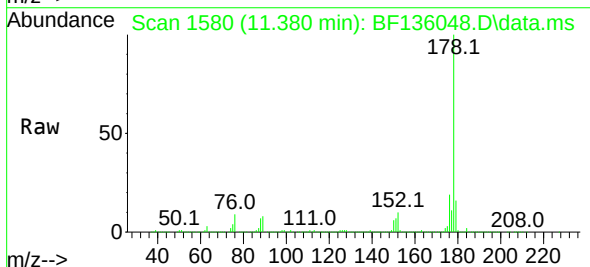
Tgt Ion:188 Resp: 496662
Ion Ratio Lower Upper
188 100
94 8.6 7.2 10.8
80 8.9 7.4 11.0

Manual Integrations
APPROVED

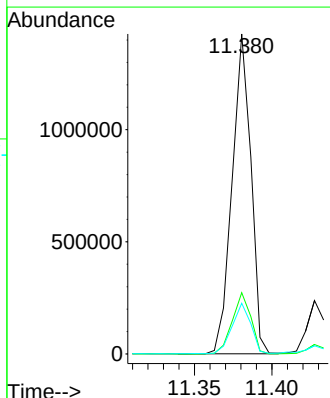
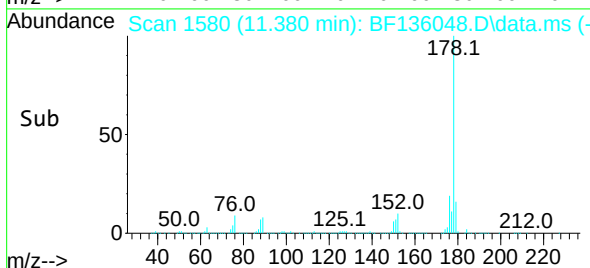
Reviewed By :Yogesh Patel 11/01/2023
Supervised By :mohammad ahmed 11/01/2023

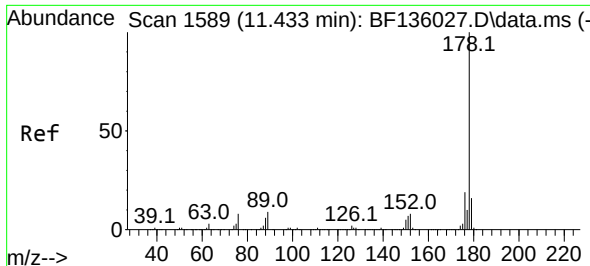


#71
Phenanthrene
Concen: 48.075 ng
RT: 11.380 min Scan# 1580
Delta R.T. 0.000 min
Lab File: BF136048.D
Acq: 31 Oct 2023 13:31



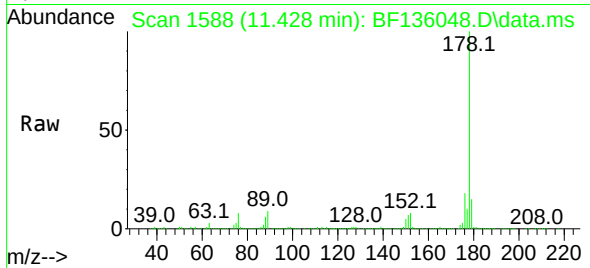
Tgt Ion:178 Resp: 1202218
Ion Ratio Lower Upper
178 100
176 19.2 15.5 23.3
179 15.9 12.9 19.3





#72
 Anthracene
 Concen: 7.085 ng
 RT: 11.428 min Scan# 1589
 Delta R.T. -0.006 min
 Lab File: BF136048.D
 Acq: 31 Oct 2023 13:31

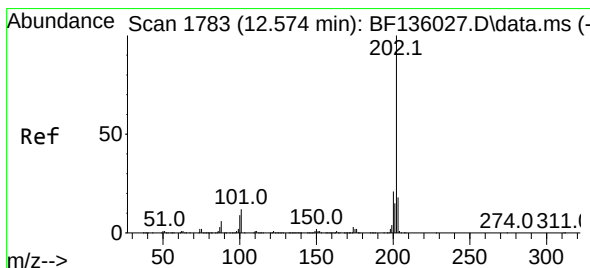
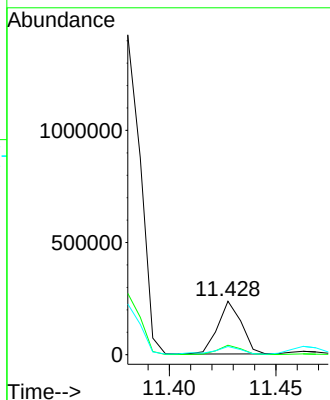
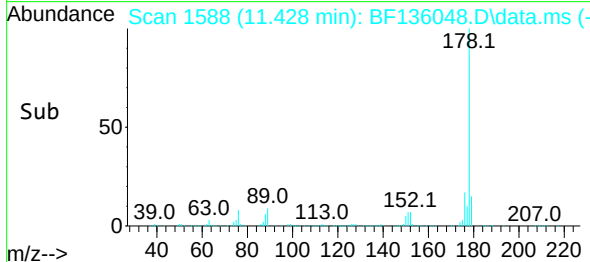
Instrument :
 BNA_F
 ClientSampleId :
 R-2(5-10)DL



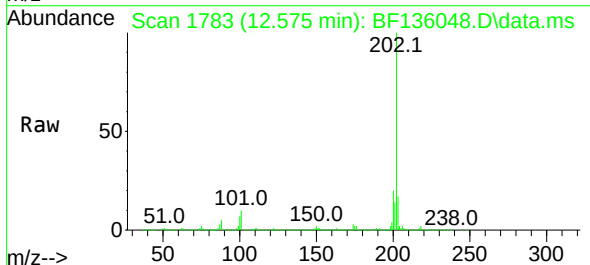
Tgt Ion:178 Resp: 18154
 Ion Ratio Lower Upper
 178 100
 176 17.7 15.0 22.4
 179 15.3 12.6 18.8

Manual Integrations
 APPROVED

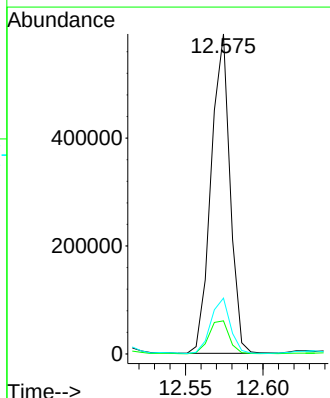
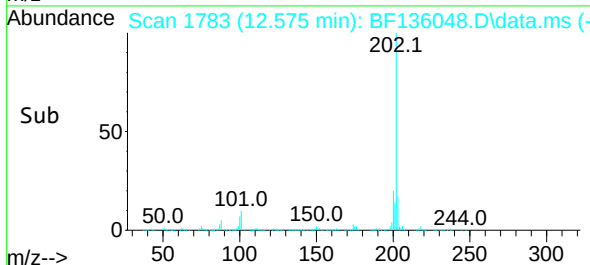
Reviewed By :Yogesh Patel 11/01/2023
 Supervised By :mohammad ahmed 11/01/2023

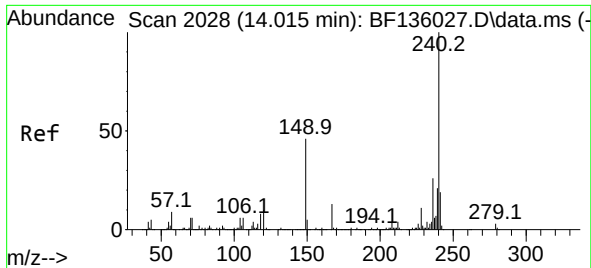


#75
 Fluoranthene
 Concen: 19.578 ng
 RT: 12.575 min Scan# 1783
 Delta R.T. 0.000 min
 Lab File: BF136048.D
 Acq: 31 Oct 2023 13:31



Tgt Ion:202 Resp: 502954
 Ion Ratio Lower Upper
 202 100
 101 10.4 0.0 31.8
 203 17.4 0.0 37.9





#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.010 min Scan# 2028
Delta R.T. -0.006 min
Lab File: BF136048.D
Acq: 31 Oct 2023 13:31

Instrument :

BNA_F

ClientSampleId :

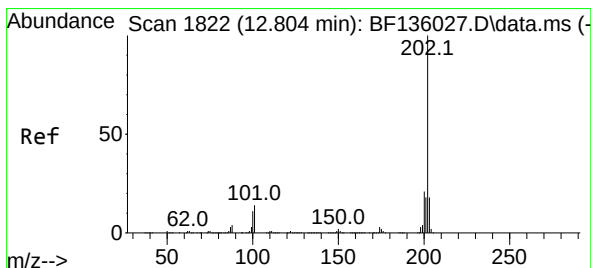
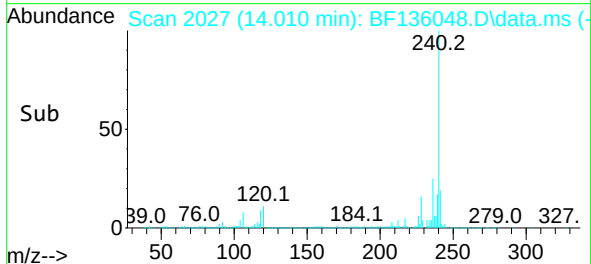
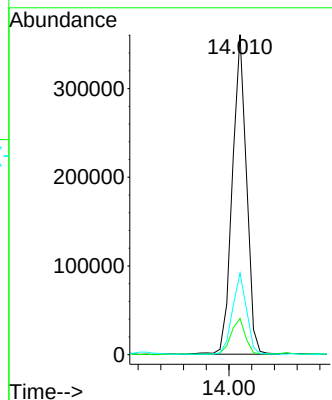
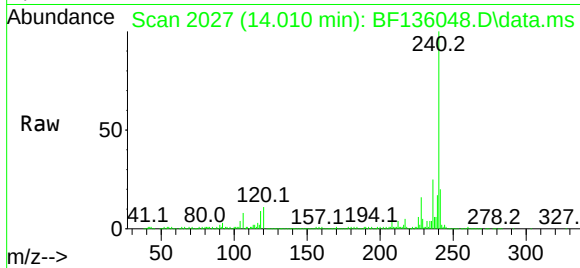
R-2(5-10)DL

Tgt Ion:240 Resp: 31116
Ion Ratio Lower Upper
240 100
120 11.3 7.6 11.4
236 25.5 20.6 31.0

Manual Integrations

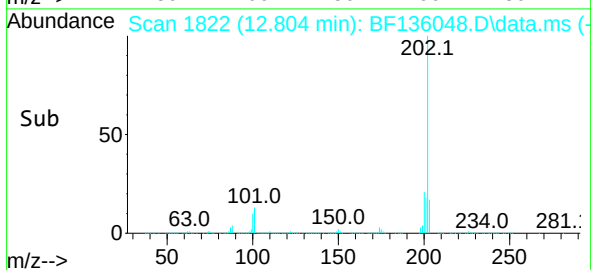
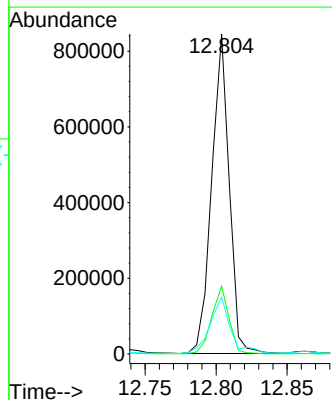
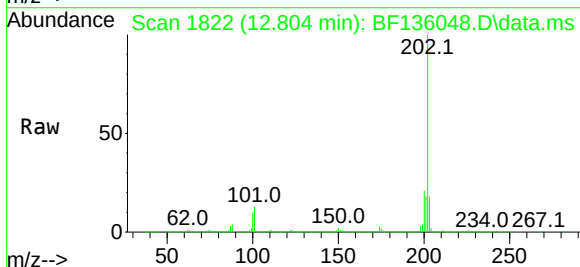
APPROVED

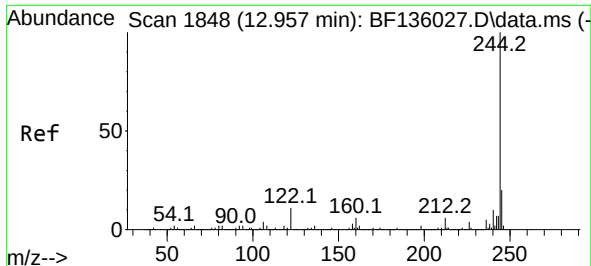
Reviewed By :Yogesh Patel 11/01/2023
Supervised By :mohammad ahmed 11/01/2023



#78
Pyrene
Concen: 26.418 ng
RT: 12.804 min Scan# 1822
Delta R.T. 0.000 min
Lab File: BF136048.D
Acq: 31 Oct 2023 13:31

Tgt Ion:202 Resp: 724741
Ion Ratio Lower Upper
202 100
200 21.2 17.0 25.4
203 17.7 14.4 21.6





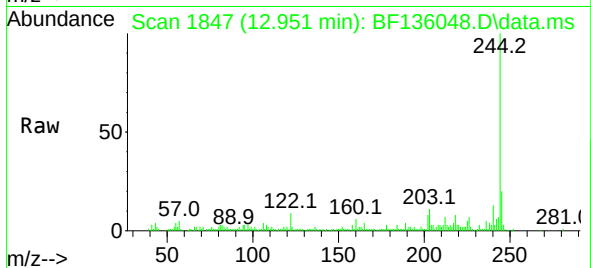
#79
Terphenyl-d14
Concen: 2.619 ng
RT: 12.951 min Scan# 1848
Delta R.T. -0.006 min
Lab File: BF136048.D
Acq: 31 Oct 2023 13:31

Instrument :

BNA_F

ClientSampleId :

R-2(5-10)DL

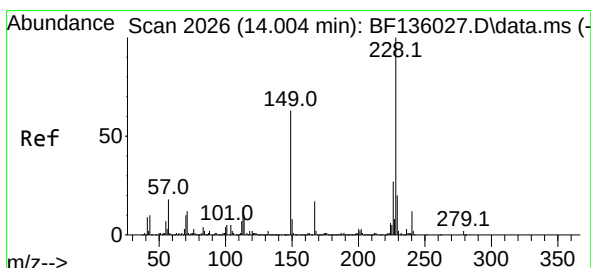
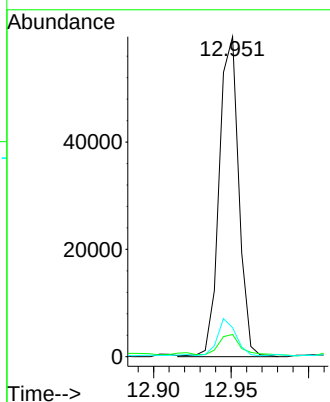
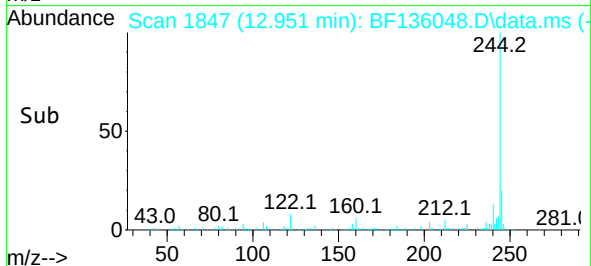


Tgt Ion:244 Resp: 52438
Ion Ratio Lower Upper
244 100
212 7.0 5.1 7.7
122 9.0 8.6 12.8

Manual Integrations

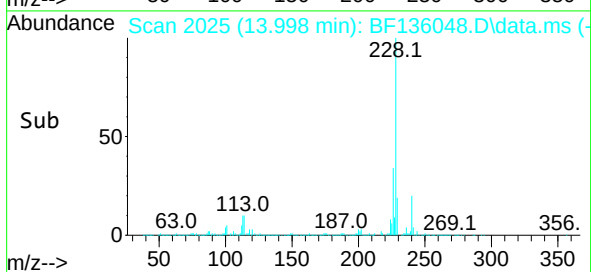
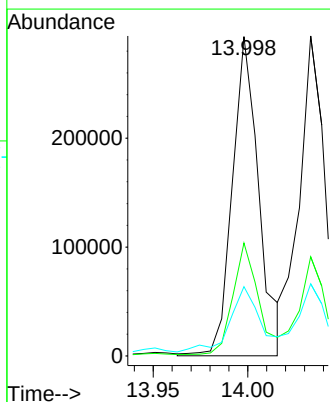
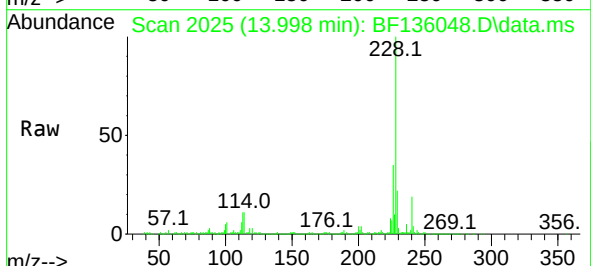
APPROVED

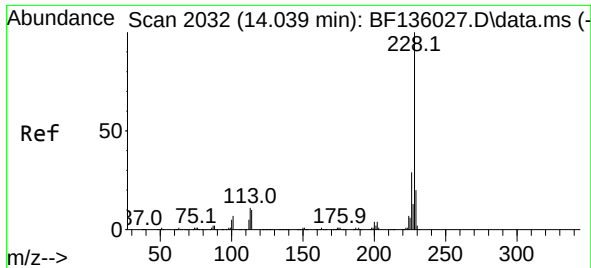
Reviewed By :Yogesh Patel 11/01/2023
Supervised By :mohammad ahmed 11/01/2023



#81
Benzo(a)anthracene
Concen: 13.892 ng m
RT: 13.998 min Scan# 2025
Delta R.T. -0.006 min
Lab File: BF136048.D
Acq: 31 Oct 2023 13:31

Tgt Ion:228 Resp: 286175
Ion Ratio Lower Upper
228 100
226 35.3 21.5 32.3#
229 21.7 15.8 23.6





#83
Chrysene
Concen: 13.103 ng
RT: 14.033 min Scan# 2032
Delta R.T. -0.006 min
Lab File: BF136048.D
Acq: 31 Oct 2023 13:31

Instrument :

BNA_F

ClientSampleId :

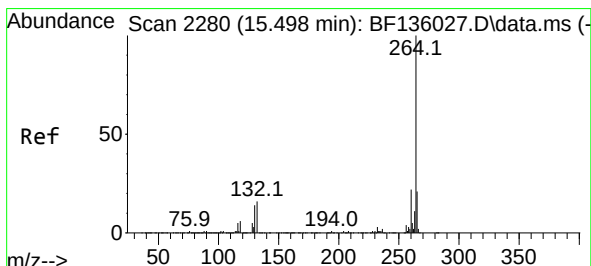
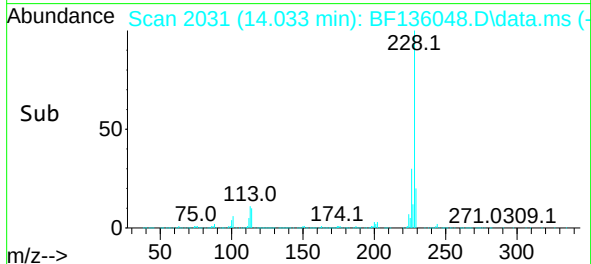
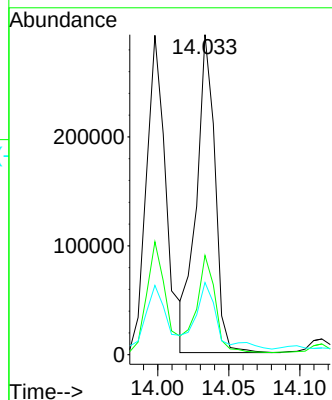
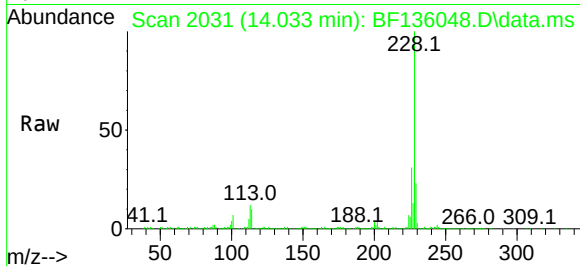
R-2(5-10)DL

Tgt Ion:228 Resp: 265828
Ion Ratio Lower Upper
228 100
226 31.0 23.5 35.3
229 22.6 16.0 24.0

Manual Integrations

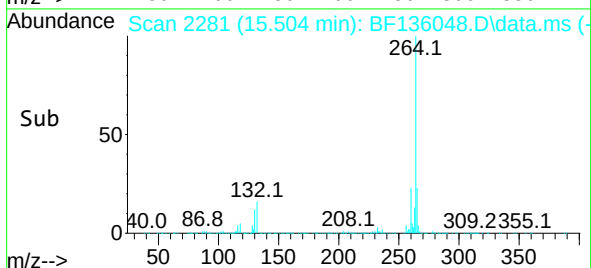
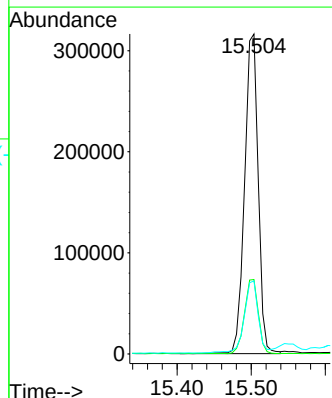
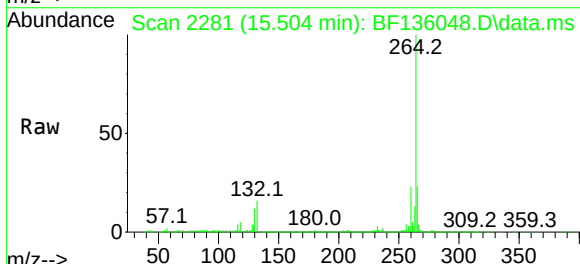
APPROVED

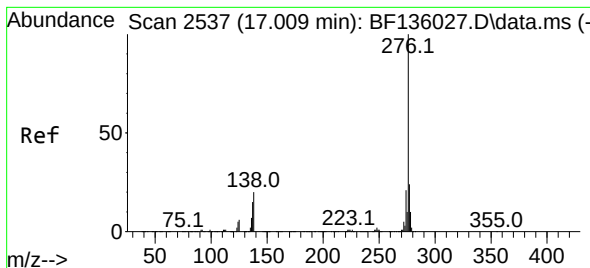
Reviewed By :Yogesh Patel 11/01/2023
Supervised By :mohammad ahmed 11/01/2023



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.504 min Scan# 2281
Delta R.T. 0.006 min
Lab File: BF136048.D
Acq: 31 Oct 2023 13:31

Tgt Ion:264 Resp: 401983
Ion Ratio Lower Upper
264 100
260 23.3 17.9 26.9
265 22.8 16.8 25.2





#87

Indeno(1,2,3-cd)pyrene

Concen: 4.709 ng

RT: 17.004 min Scan# 21

Delta R.T. -0.006 min

Lab File: BF136048.D

Acq: 31 Oct 2023 13:31

Instrument :

BNA_F

ClientSampleId :

R-2(5-10)DL

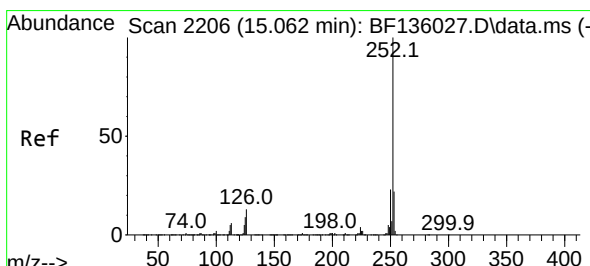
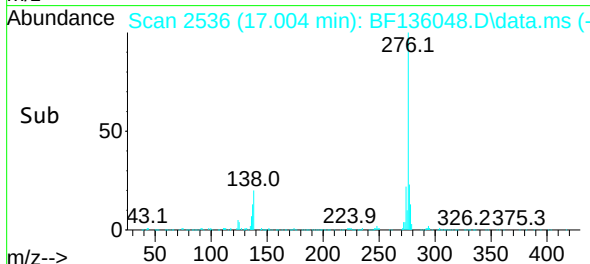
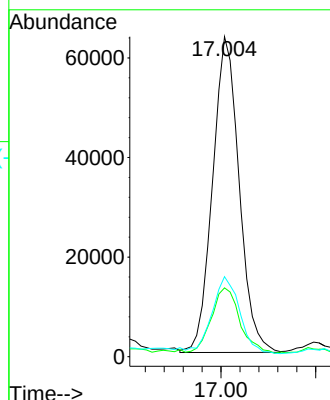
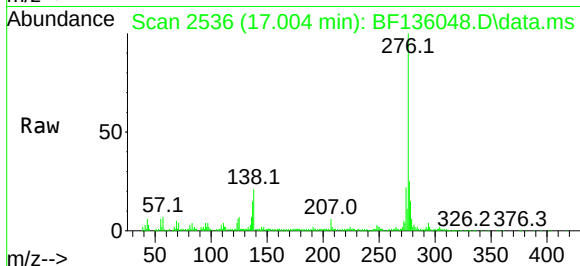
Tgt Ion:	276	Resp:	12372
Ion Ratio	Lower	Upper	
276	100		
138	21.8	20.4	30.6
277	25.3	20.2	30.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/01/2023

Supervised By :mohammad ahmed 11/01/2023



#88

Benzo(b)fluoranthene

Concen: 10.432 ng m

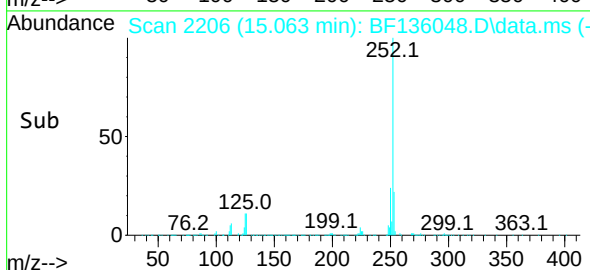
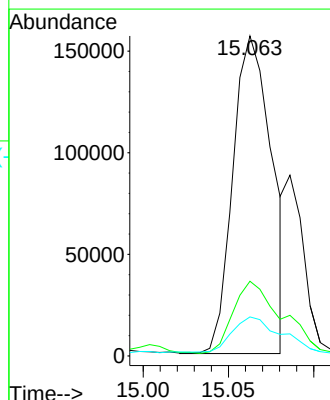
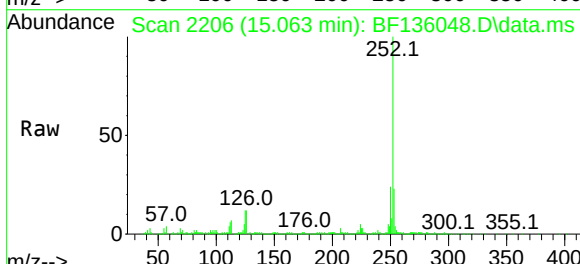
RT: 15.063 min Scan# 2206

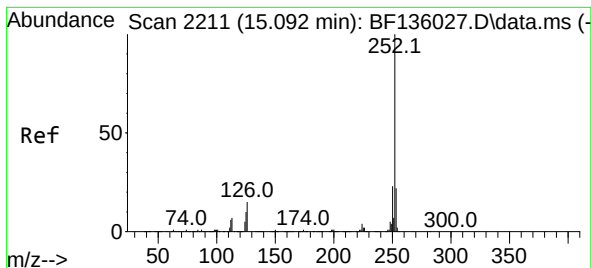
Delta R.T. 0.000 min

Lab File: BF136048.D

Acq: 31 Oct 2023 13:31

Tgt Ion:	252	Resp:	248134
Ion Ratio	Lower	Upper	
252	100		
253	23.4	17.7	26.5
125	12.2	7.5	11.3





#89

Benzo(k)fluoranthene

Concen: 2.796 ng m

RT: 15.086 min Scan# 21

Delta R.T. -0.006 min

Lab File: BF136048.D

Acq: 31 Oct 2023 13:31

Instrument :

BNA_F

ClientSampleId :

R-2(5-10)DL

Tgt Ion:252 Resp: 65808

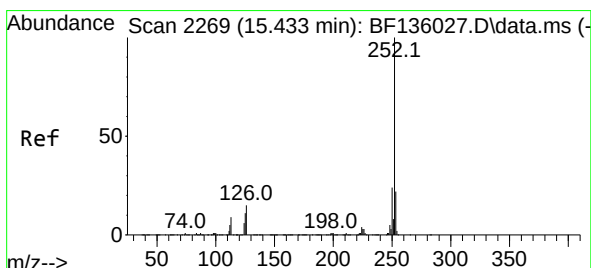
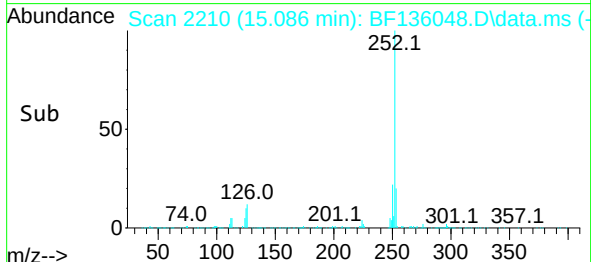
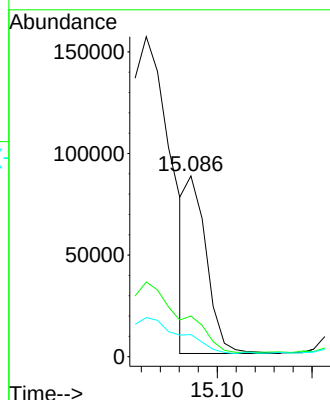
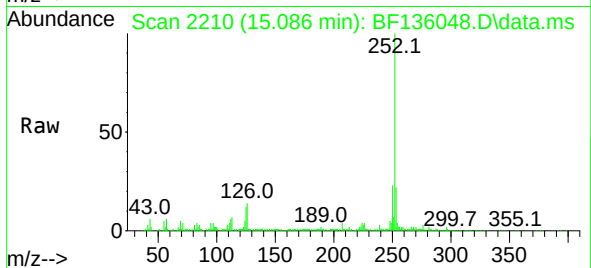
Ion	Ratio	Lower	Upper
252	100		
253	22.4	17.4	26.0
125	12.2	8.0	12.0

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/01/2023

Supervised By :mohammad ahmed 11/01/2023



#90

Benzo(a)pyrene

Concen: 12.103 ng

RT: 15.433 min Scan# 2269

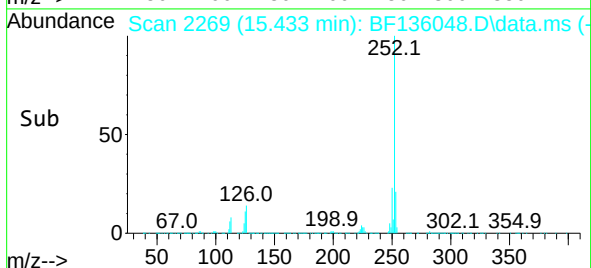
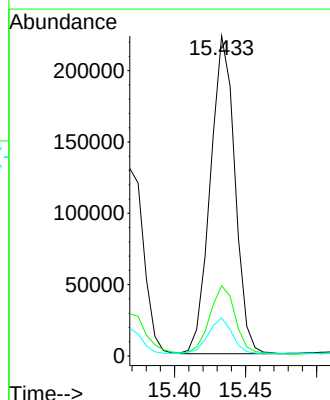
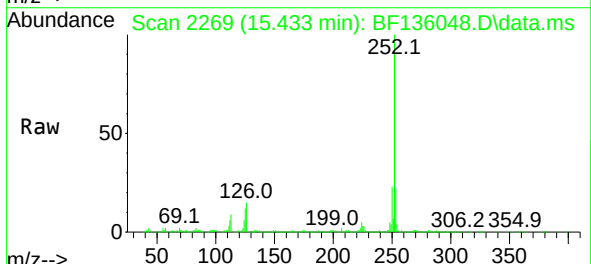
Delta R.T. 0.000 min

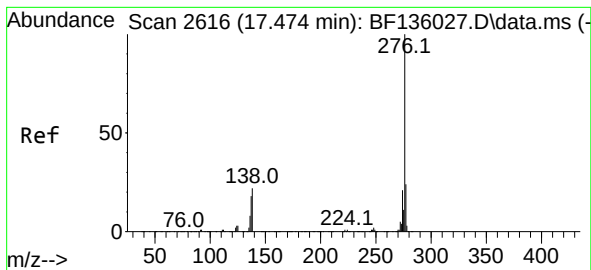
Lab File: BF136048.D

Acq: 31 Oct 2023 13:31

Tgt Ion:252 Resp: 267479

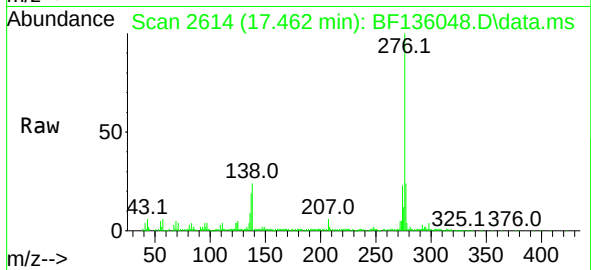
Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.3	25.9
125	11.9	9.0	13.6





#92
Benzo(g,h,i)perylene
Concen: 7.972 ng
RT: 17.462 min Scan# 20
Delta R.T. -0.012 min
Lab File: BF136048.D
Acq: 31 Oct 2023 13:31

Instrument :
BNA_F
ClientSampleId :
R-2(5-10)DL



Tgt Ion:276 Resp: 13238
Ion Ratio Lower Upper
276 100
277 23.7 19.0 28.4
138 23.5 17.4 26.2

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/01/2023
Supervised By :mohammad ahmed 11/01/2023

