

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF113023\
 Data File : BF136312.D
 Acq On : 30 Nov 2023 14:20
 Operator : CG\JU
 Sample : 05253-03DL2 50X
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 L-3(120FT)(0-5)DL2

Manual Integrations
 APPROVED

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

Quant Time: Nov 30 14:37:04 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	116757	20.000	ng	0.00
21) Naphthalene-d8	8.081	136	466741	20.000	ng	0.00
39) Acenaphthene-d10	9.839	164	211852	20.000	ng	0.00
64) Phenanthrene-d10	11.327	188	310001	20.000	ng	0.00
76) Chrysene-d12	13.980	240	237600	20.000	ng	-0.01
86) Perylene-d12	15.468	264	264609	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.428	112	14618	1.743	ng	-0.01
7) Phenol-d6	6.428	99	20008	1.908	ng	-0.02
23) Nitrobenzene-d5	7.357	82	12770	1.446	ng	-0.02
42) 2,4,6-Tribromophenol	10.628	330	3569	1.378	ng	-0.01
45) 2-Fluorobiphenyl	9.157	172	27784	1.675	ng	-0.01
79) Terphenyl-d14	12.921	244	22725	1.103	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	8.104	128	269695	10.280	ng	97
37) 2-Methylnaphthalene	8.792	142	145210	8.824	ng	94
38) 1-Methylnaphthalene	8.892	142	214866	13.384	ng	93
46) 1,1'-Biphenyl	9.257	154	47666	2.551	ng	95
49) Acenaphthylene	9.698	152	79266	3.828	ng	# 93
52) Acenaphthene	9.869	154	35577	2.719	ng	86
58) Fluorene	10.386	166	106207	6.955	ng	92
71) Phenanthrene	11.351	178	453675	26.038	ng	98
72) Anthracene	11.404	178	65754	3.763	ng	98
75) Fluoranthene	12.545	202	189843	10.733	ng	91
78) Pyrene	12.774	202	327298	12.578	ng	95
81) Benzo(a)anthracene	13.968	228	128304	7.270	ng	# 88
83) Chrysene	14.004	228	135182m	7.933	ng	
87) Indeno(1,2,3-cd)pyrene	16.957	276	36058	4.400	ng	98
88) Benzo(b)fluoranthene	15.027	252	104110m	5.608	ng	
89) Benzo(k)fluoranthene	15.045	252	36194m	2.053	ng	
90) Benzo(a)pyrene	15.398	252	112620	7.421	ng	98
91) Dibenzo(a,h)anthracene	16.968	278	14007m	3.546	ng	
92) Benzo(g,h,i)perylene	17.415	276	39815	4.301	ng	97

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

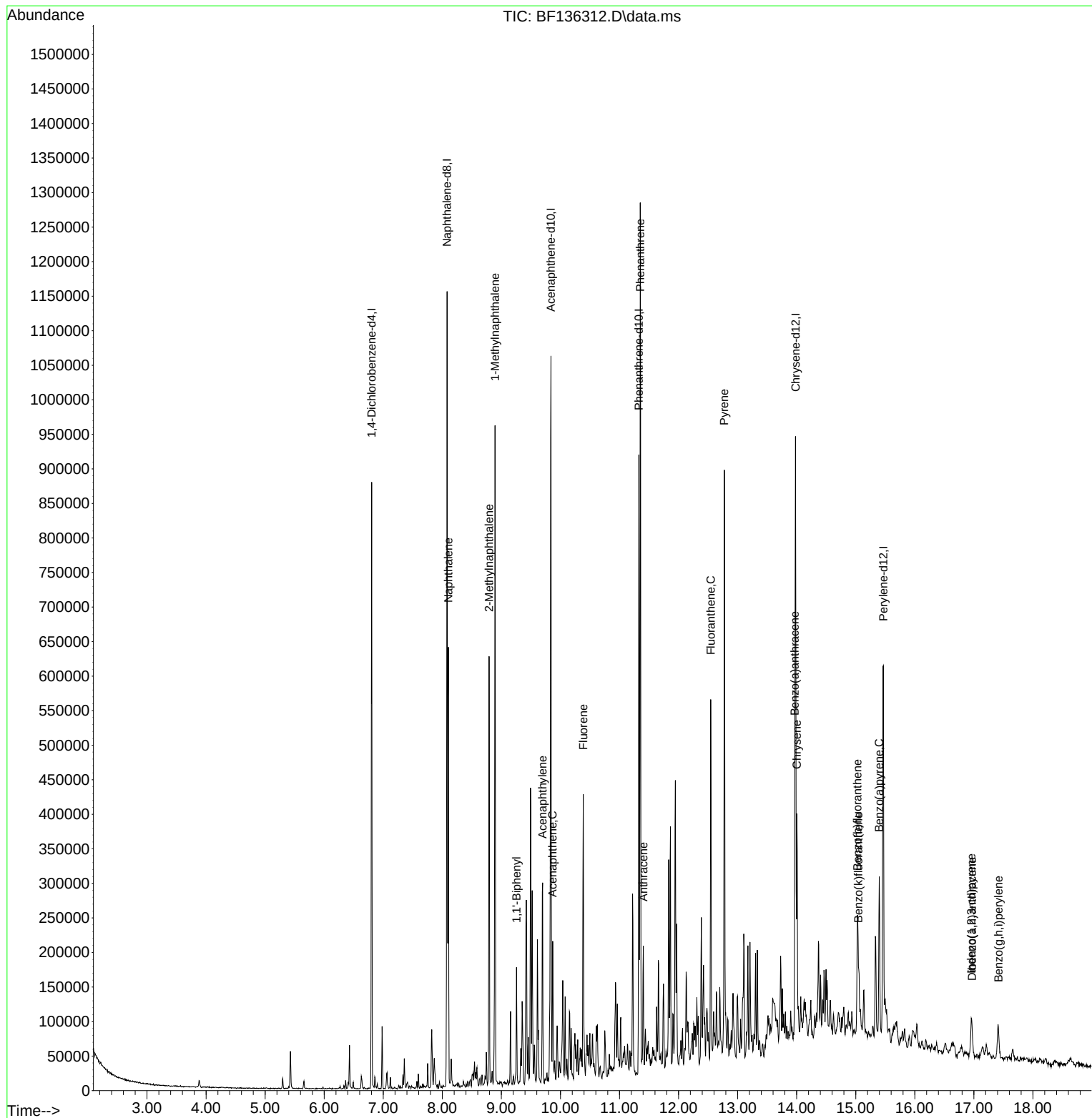
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF113023\
Data File : BF136312.D
Acq On : 30 Nov 2023 14:20
Operator : CG\JU
Sample : 05253-03DL2 50X
Misc :
ALS Vial : 8 Sample Multiplier: 1

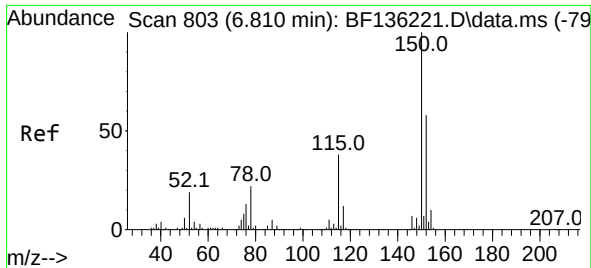
Instrument :
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L-3(120FT)(0-5)DL2

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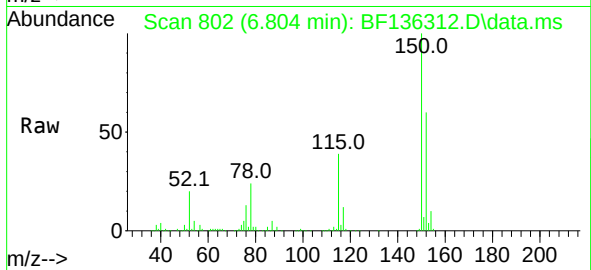
Quant Time: Nov 30 14:37:04 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112723.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Nov 28 03:04:20 2023
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.804 min Scan# 803
Delta R.T. -0.006 min
Lab File: BF136312.D
Acq: 30 Nov 2023 14:20

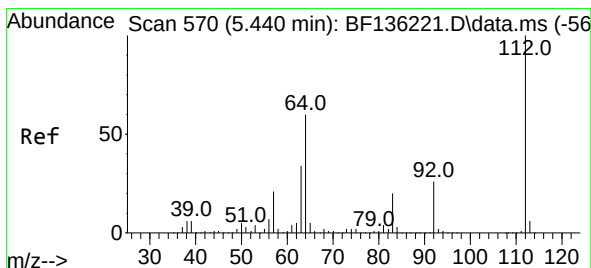
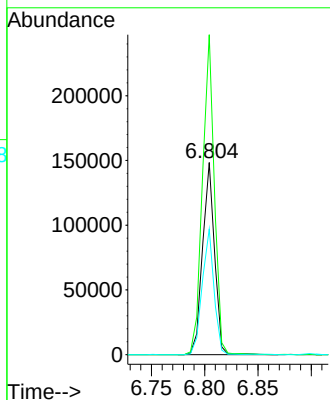
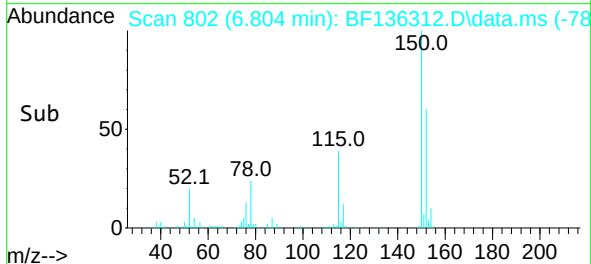
Instrument :
BNA_F
ClientSampleId :
L-3(120FT)(0-5)DL2



Tgt Ion:152 Resp: 11675
Ion Ratio Lower Upper
152 100
150 166.5 137.8 206.8
115 65.4 52.7 79.1

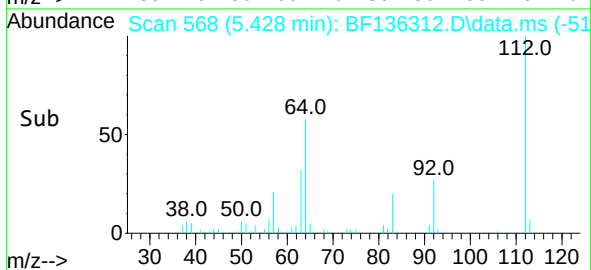
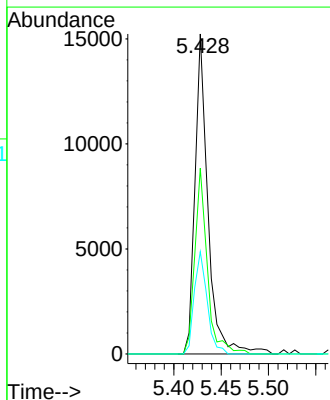
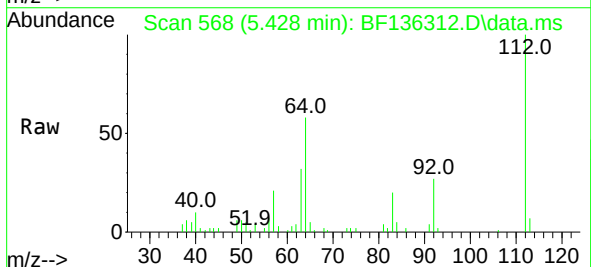
Manual Integrations
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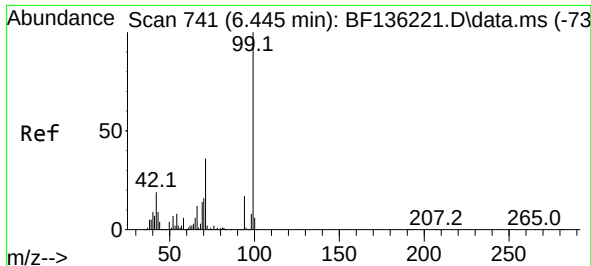
Reviewed By :Yogesh Patel 12/01/2023
Supervised By :mohammad ahmed 12/01/2023



#5
2-Fluorophenol
Concen: 1.743 ng
RT: 5.428 min Scan# 568
Delta R.T. -0.012 min
Lab File: BF136312.D
Acq: 30 Nov 2023 14:20

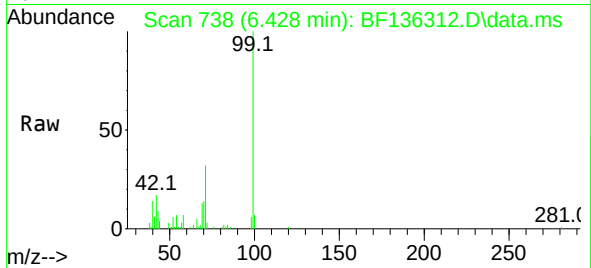
Tgt Ion:112 Resp: 14618
Ion Ratio Lower Upper
112 100
64 58.1 48.2 72.4
63 31.9 27.0 40.6





#7
Phenol-d6
Concen: 1.908 ng
RT: 6.428 min Scan# 71
Delta R.T. -0.018 min
Lab File: BF136312.D
Acq: 30 Nov 2023 14:20

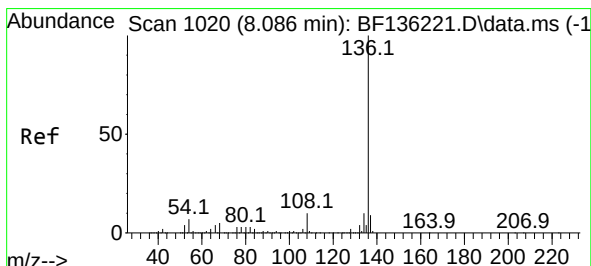
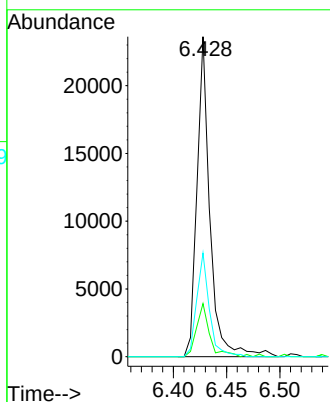
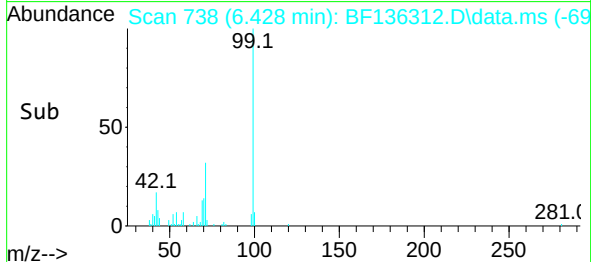
Instrument :
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L-3(120FT)(0-5)DL2



Tgt Ion: 99 Resp: 2000
Ion Ratio Lower Upper
99 100
42 16.6 15.0 22.6
71 32.4 28.9 43.3

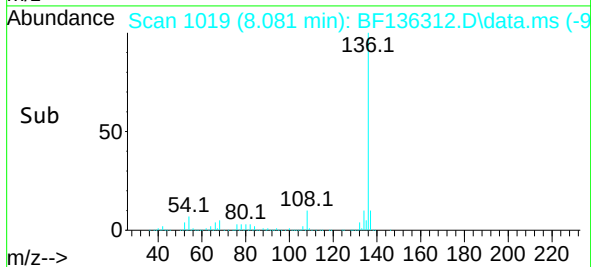
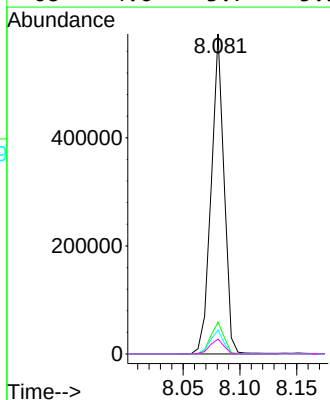
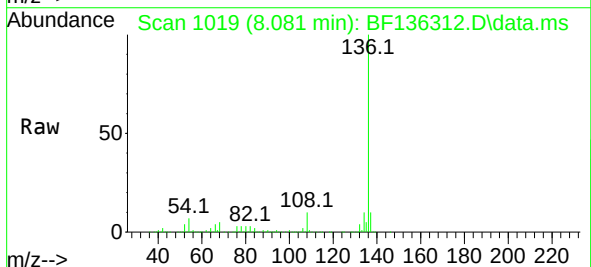
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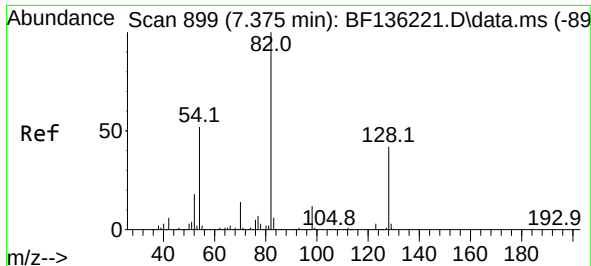
Reviewed By :Yogesh Patel 12/01/2023
Supervised By :mohammad ahmed 12/01/2023



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.081 min Scan# 1019
Delta R.T. -0.006 min
Lab File: BF136312.D
Acq: 30 Nov 2023 14:20

Tgt Ion:136 Resp: 466741
Ion Ratio Lower Upper
136 100
137 10.0 7.4 11.2
54 7.5 5.5 8.3
68 4.6 3.7 5.5





#23

Nitrobenzene-d5

Concen: 1.446 ng

RT: 7.357 min Scan# 899

Delta R.T. -0.018 min

Lab File: BF136312.D

Acq: 30 Nov 2023 14:20

Instrument :

BNA_F

ClientSampleId :

L-3(120FT)(0-5)DL2

Tgt Ion: 82 Resp: 12770

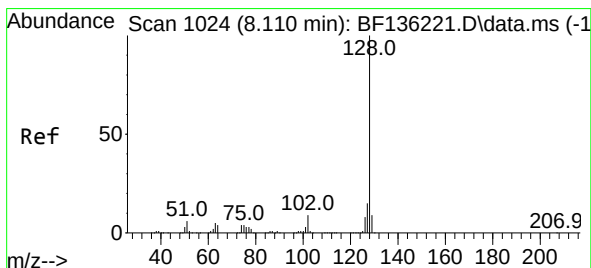
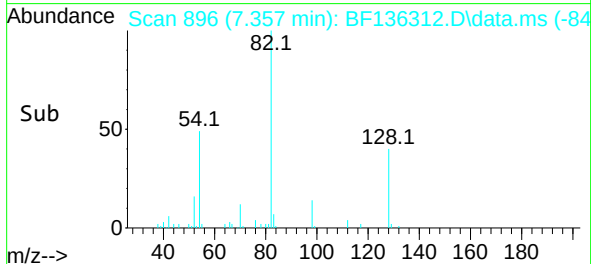
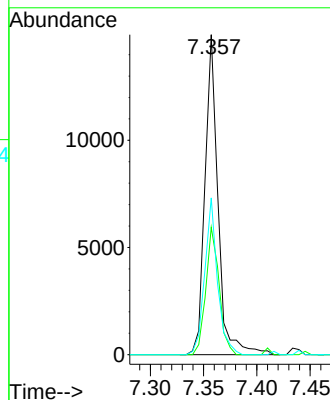
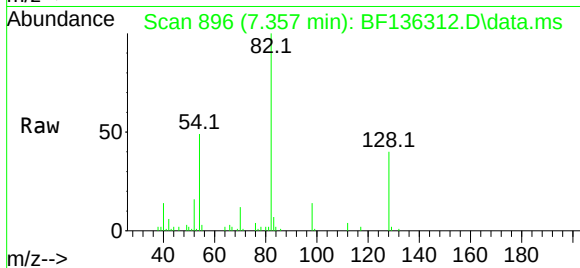
Ion	Ratio	Lower	Upper
82	100		
128	39.8	33.4	50.2
54	49.0	41.7	62.5

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Supervised By :mohammad ahmed 12/01/2023



#31

Naphthalene

Concen: 10.280 ng

RT: 8.104 min Scan# 1023

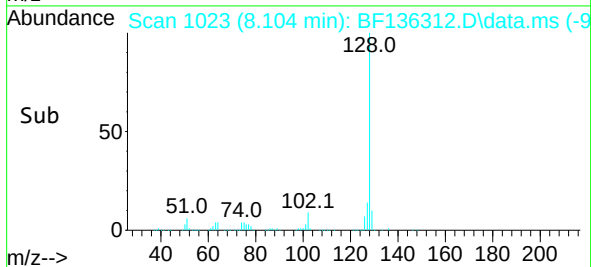
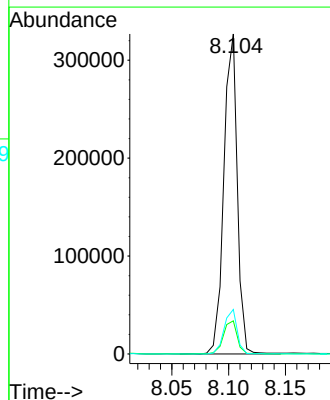
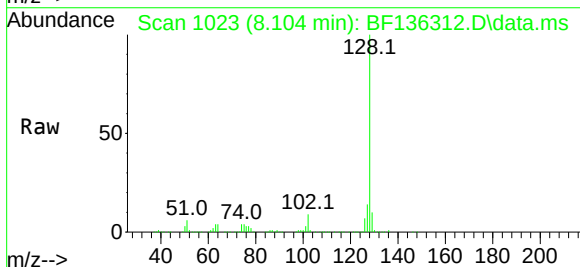
Delta R.T. -0.006 min

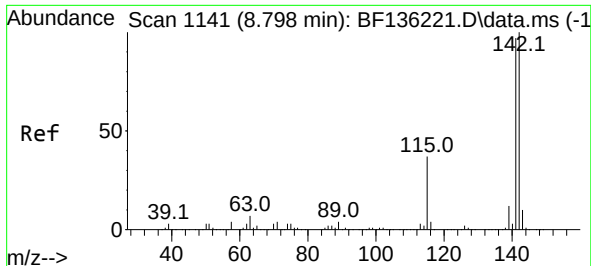
Lab File: BF136312.D

Acq: 30 Nov 2023 14:20

Tgt Ion:128 Resp: 269695

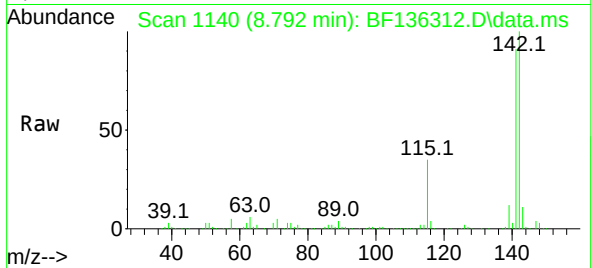
Ion	Ratio	Lower	Upper
128	100		
129	10.4	7.3	10.9
127	13.9	11.8	17.6





#37
2-Methylnaphthalene
Concen: 8.824 ng
RT: 8.792 min Scan# 1141
Delta R.T. -0.006 min
Lab File: BF136312.D
Acq: 30 Nov 2023 14:20

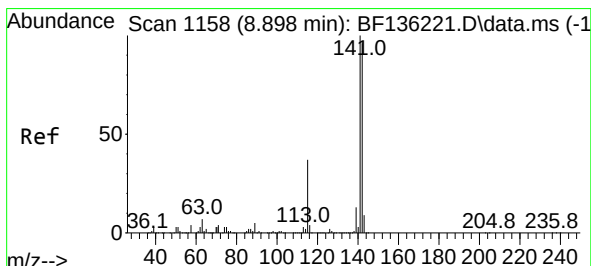
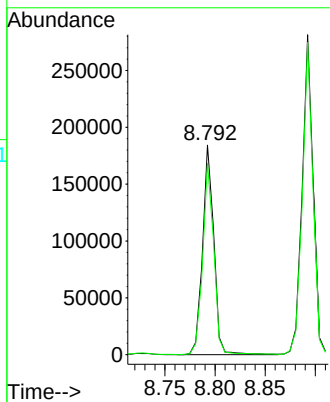
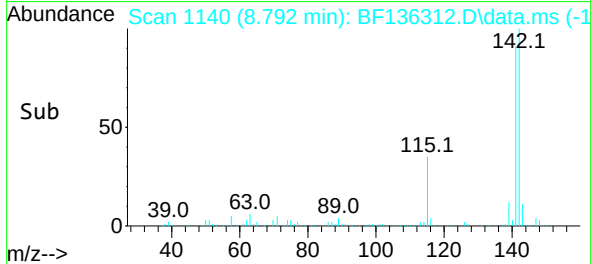
Instrument :
BNA_F
ClientSampleId :
L-3(120FT)(0-5)DL2



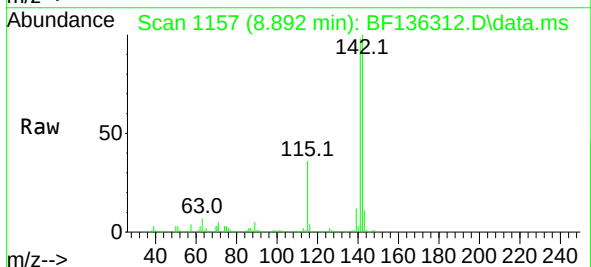
Tgt Ion:142 Resp: 145210
Ion Ratio Lower Upper
142 100
141 91.3 77.8 116.8

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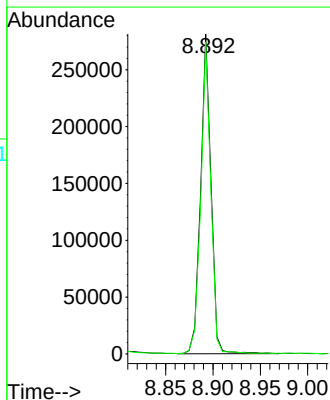
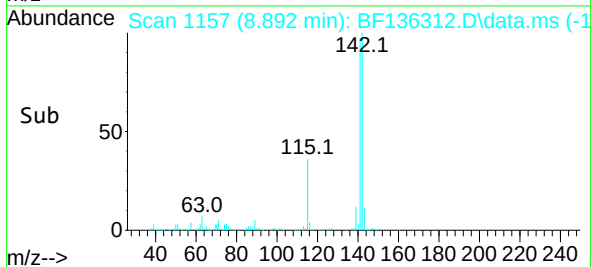
Reviewed By :Yogesh Patel 12/01/2023
Supervised By :mohammad ahmed 12/01/2023

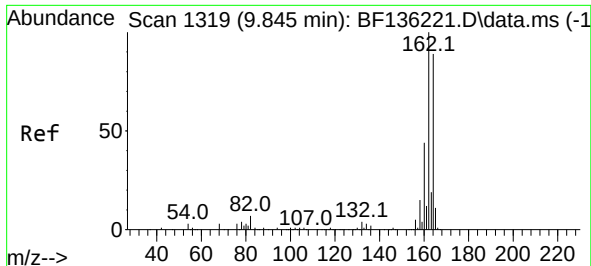


#38
1-Methylnaphthalene
Concen: 13.384 ng
RT: 8.892 min Scan# 1157
Delta R.T. -0.006 min
Lab File: BF136312.D
Acq: 30 Nov 2023 14:20



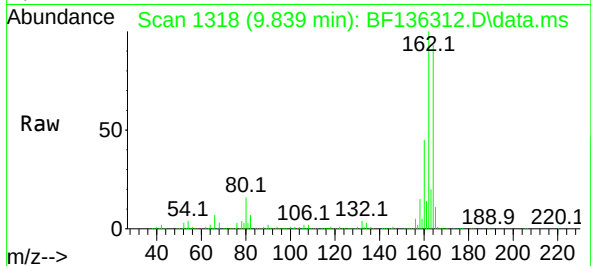
Tgt Ion:142 Resp: 214866
Ion Ratio Lower Upper
142 100
141 97.6 83.8 125.6





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.839 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF136312.D
Acq: 30 Nov 2023 14:20

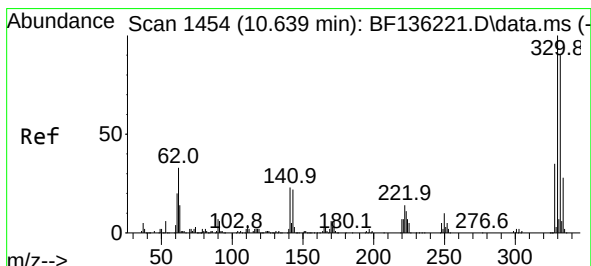
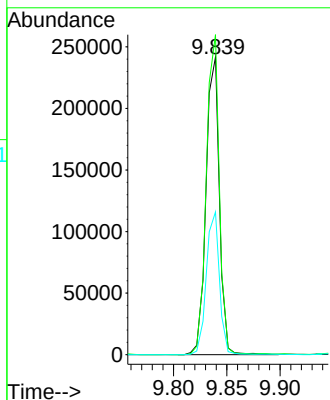
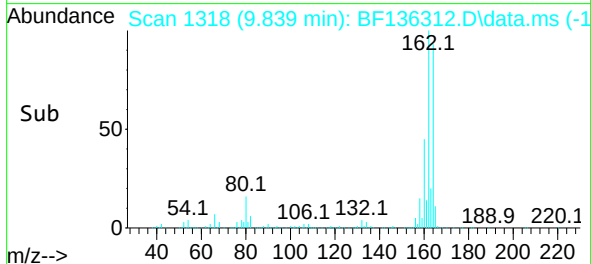
Instrument :
BNA_F
ClientSampleId :
L-3(120FT)(0-5)DL2



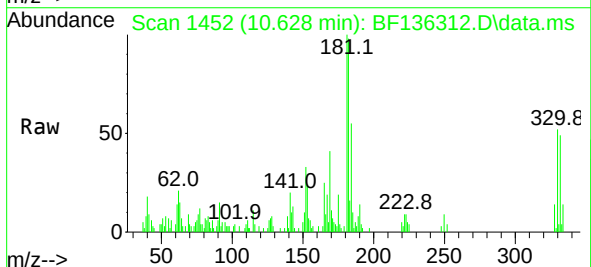
Tgt Ion:164 Resp: 21185
Ion Ratio Lower Upper
164 100
162 107.5 89.5 134.3
160 48.0 39.6 59.4

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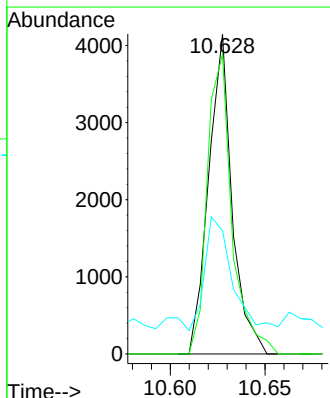
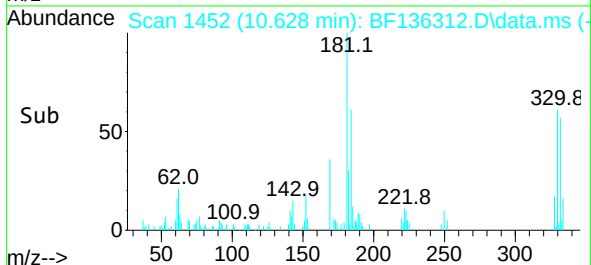
Reviewed By :Yogesh Patel 12/01/2023
Supervised By :mohammad ahmed 12/01/2023

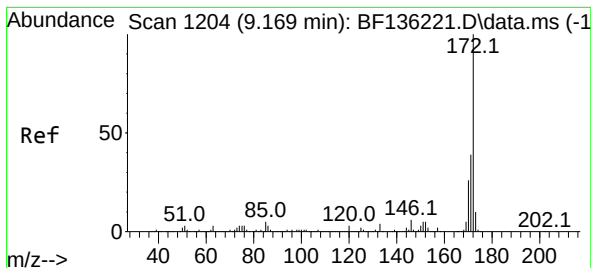


#42
2,4,6-Tribromophenol
Concen: 1.378 ng
RT: 10.628 min Scan# 1452
Delta R.T. -0.012 min
Lab File: BF136312.D
Acq: 30 Nov 2023 14:20



Tgt Ion:330 Resp: 3569
Ion Ratio Lower Upper
330 100
332 98.8 73.0 109.6
141 48.3 24.2 36.2#





#45

2-Fluorobiphenyl

Concen: 1.675 ng

RT: 9.157 min Scan# 11

Delta R.T. -0.012 min

Lab File: BF136312.D

Acq: 30 Nov 2023 14:20

Instrument :

BNA_F

ClientSampleId :

L-3(120FT)(0-5)DL2

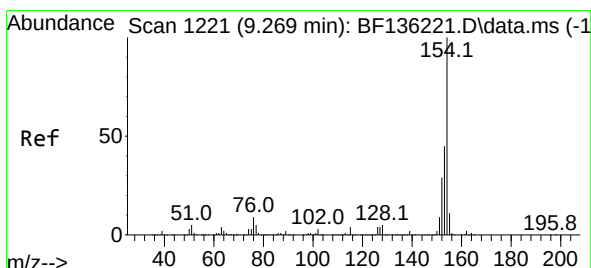
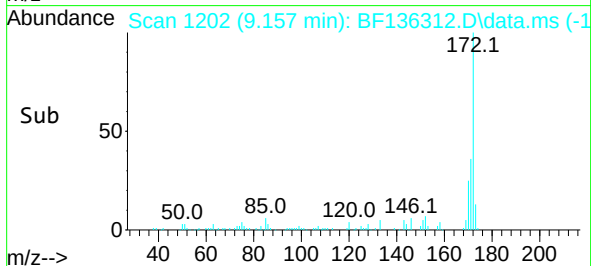
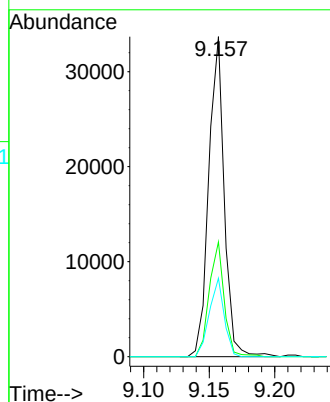
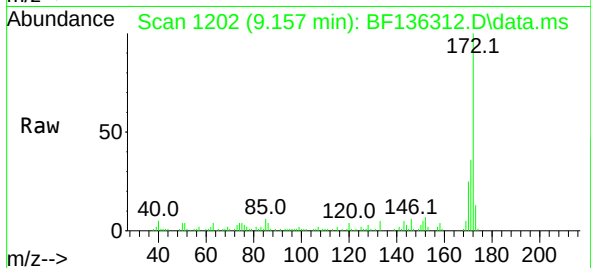
Tgt Ion:172 Resp: 27784
 Ion Ratio Lower Upper
 172 100
 171 35.8 31.5 47.3
 170 24.5 20.8 31.2

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: 2.551 ng

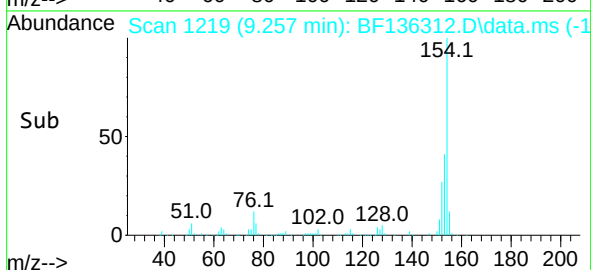
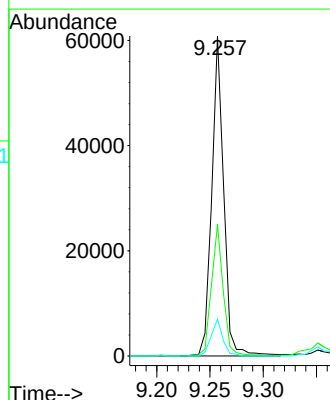
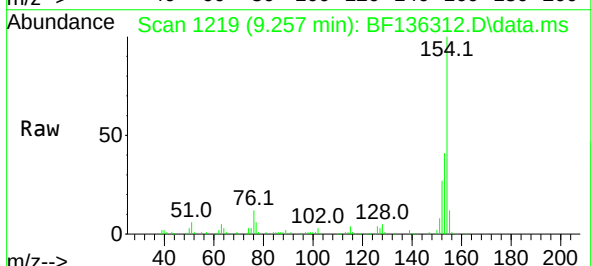
RT: 9.257 min Scan# 1219

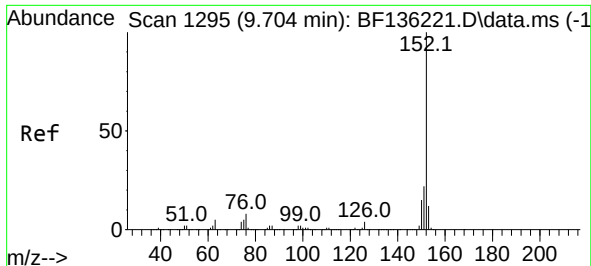
Delta R.T. -0.012 min

Lab File: BF136312.D

Acq: 30 Nov 2023 14:20

Tgt Ion:154 Resp: 47666
 Ion Ratio Lower Upper
 154 100
 153 41.1 24.6 64.6
 76 11.6 0.0 29.4





#49

Acenaphthylene

Concen: 3.828 ng

RT: 9.698 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF136312.D

Acq: 30 Nov 2023 14:20

Instrument :

BNA_F

ClientSampleId :

L-3(120FT)(0-5)DL2

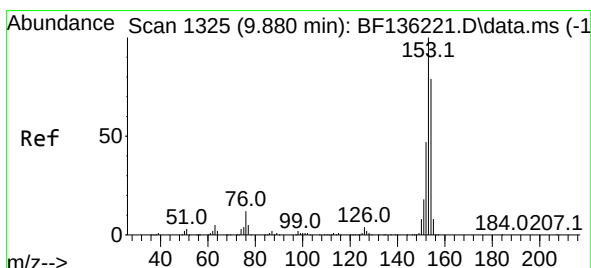
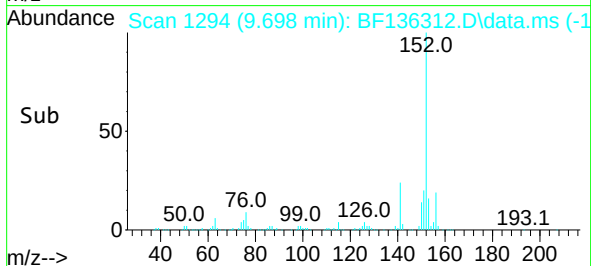
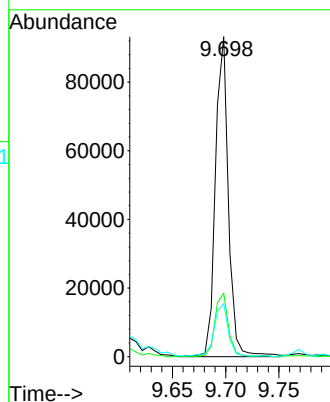
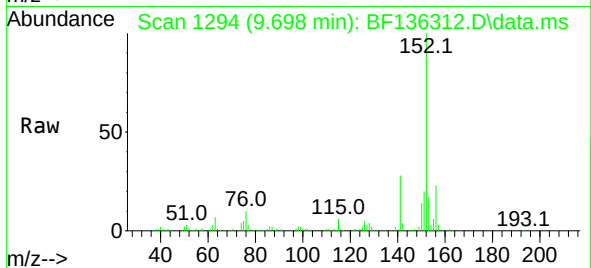
Tgt Ion:152 Resp: 79260
 Ion Ratio Lower Upper
 152 100
 151 19.8 17.5 26.3
 153 16.5 9.6 14.4

Manual Integrations

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Reviewed By :Yogesh Patel 12/01/2023

Supervised By :mohammad ahmed 12/01/2023



#52

Acenaphthene

Concen: 2.719 ng

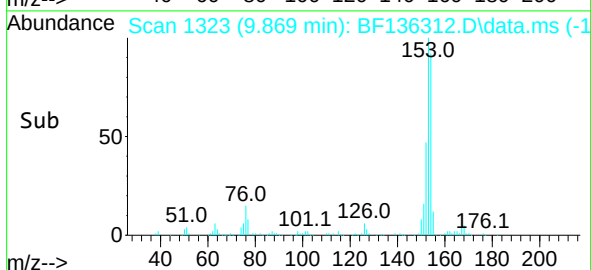
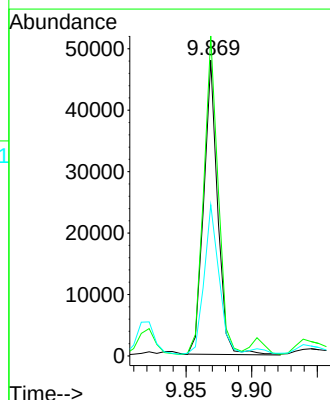
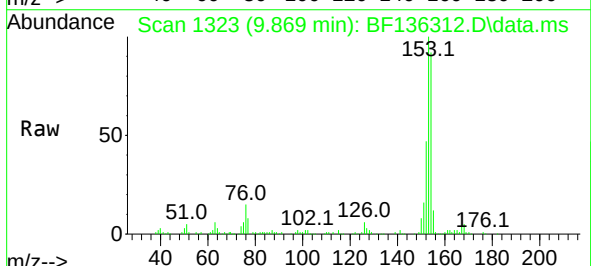
RT: 9.869 min Scan# 1323

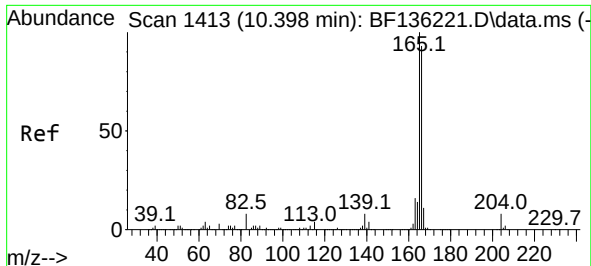
Delta R.T. -0.012 min

Lab File: BF136312.D

Acq: 30 Nov 2023 14:20

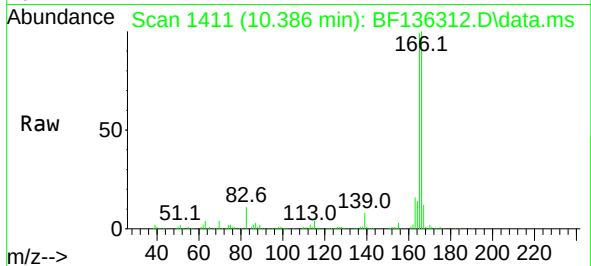
Tgt Ion:154 Resp: 35577
 Ion Ratio Lower Upper
 154 100
 153 108.2 100.8 151.2
 152 51.1 47.0 70.6





#58
Fluorene
Concen: 6.955 ng
RT: 10.386 min Scan# 1413
Delta R.T. -0.012 min
Lab File: BF136312.D
Acq: 30 Nov 2023 14:20

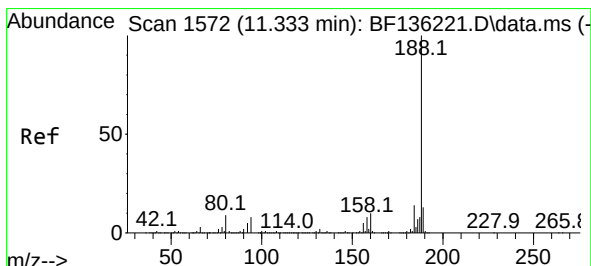
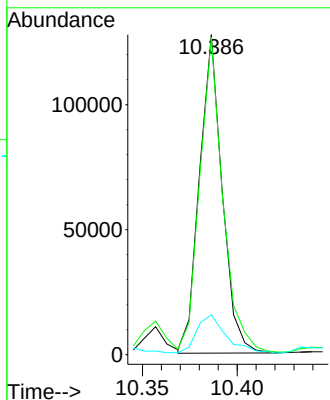
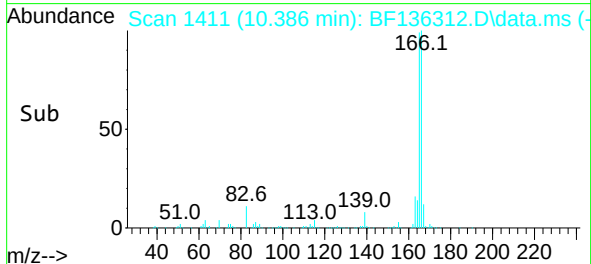
Instrument :
BNA_F
ClientSampleId :
L-3(120FT)(0-5)DL2



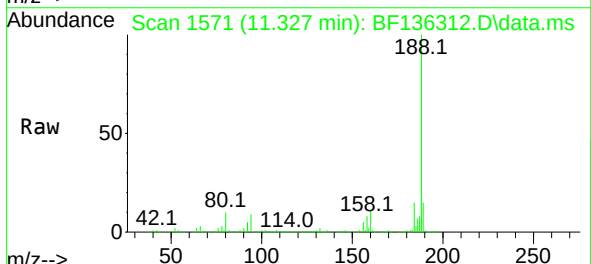
Tgt Ion:166 Resp: 106207
Ion Ratio Lower Upper
166 100
165 99.2 86.2 129.4
167 12.5 9.1 13.7

Manual Integrations
APPROVED

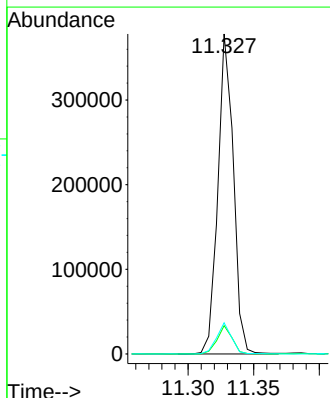
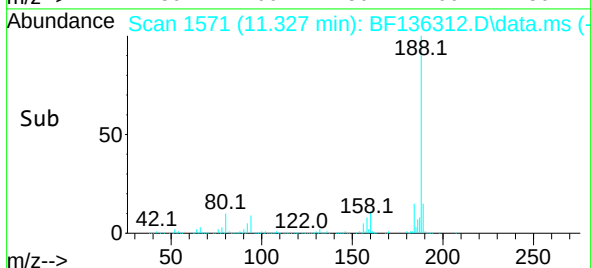
Reviewed By :Yogesh Patel 12/01/2023
Supervised By :mohammad ahmed 12/01/2023

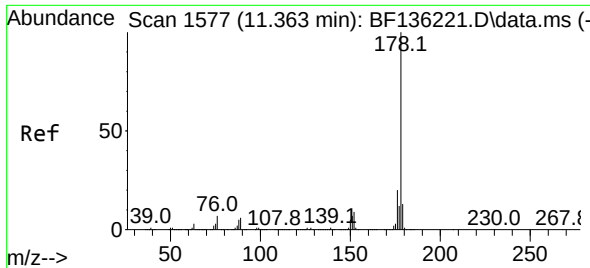


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.327 min Scan# 1571
Delta R.T. -0.006 min
Lab File: BF136312.D
Acq: 30 Nov 2023 14:20



Tgt Ion:188 Resp: 310001
Ion Ratio Lower Upper
188 100
94 8.9 6.7 10.1
80 9.8 7.2 10.8





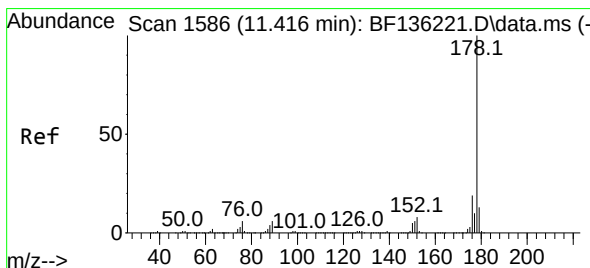
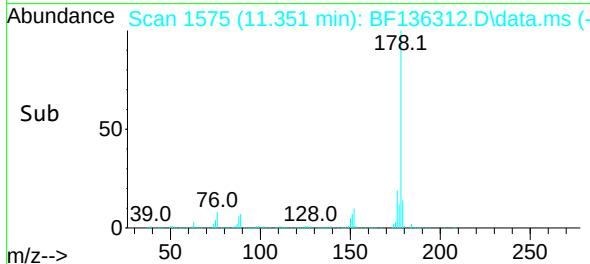
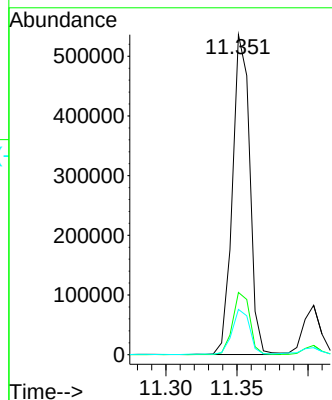
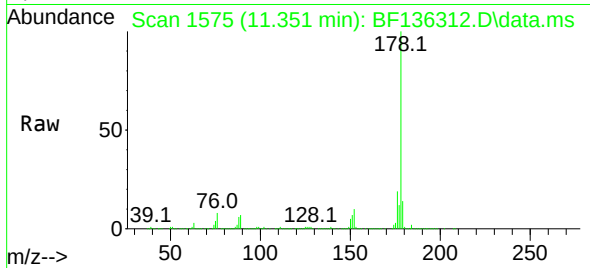
#71
Phenanthrene
Concen: 26.038 ng
RT: 11.351 min Scan# 11351
Delta R.T. -0.012 min
Lab File: BF136312.D
Acq: 30 Nov 2023 14:20

Instrument :
BNA_F
ClientSampleId :
L-3(120FT)(0-5)DL2

Tgt Ion:178 Resp: 453679
Ion Ratio Lower Upper
178 100
176 19.5 16.2 24.2
179 14.1 10.3 15.5

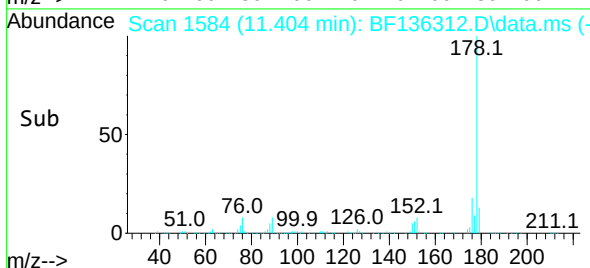
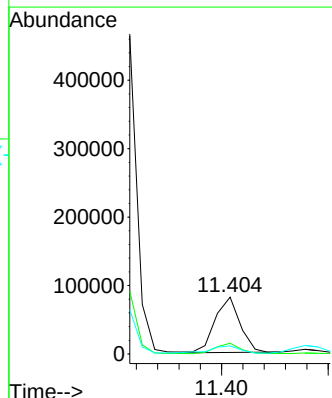
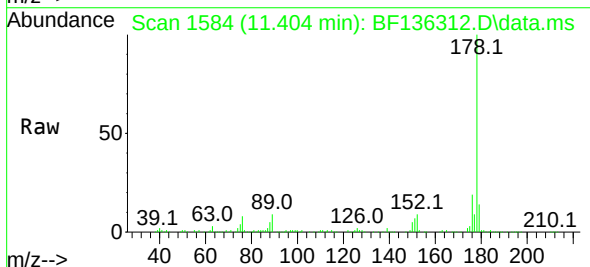
Manual Integrations
APPROVED

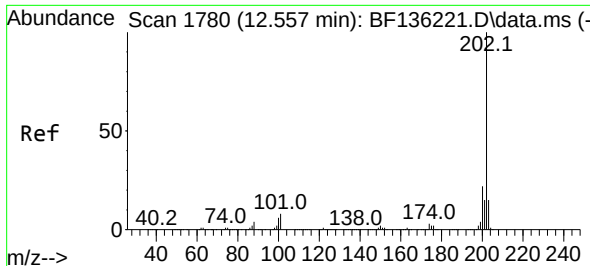
Reviewed By :Yogesh Patel 12/01/2023
Supervised By :mohammad ahmed 12/01/2023



#72
Anthracene
Concen: 3.763 ng
RT: 11.404 min Scan# 1584
Delta R.T. -0.012 min
Lab File: BF136312.D
Acq: 30 Nov 2023 14:20

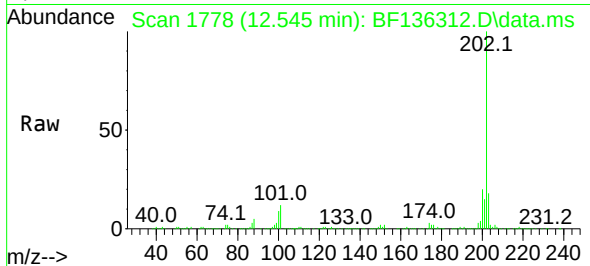
Tgt Ion:178 Resp: 65754
Ion Ratio Lower Upper
178 100
176 18.8 15.5 23.3
179 14.2 10.5 15.7





#75
Fluoranthene
Concen: 10.733 ng
RT: 12.545 min Scan# 1778
Delta R.T. -0.012 min
Lab File: BF136312.D
Acq: 30 Nov 2023 14:20

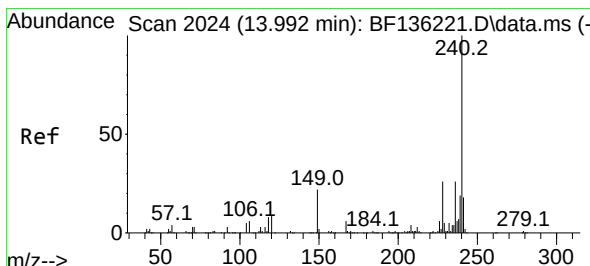
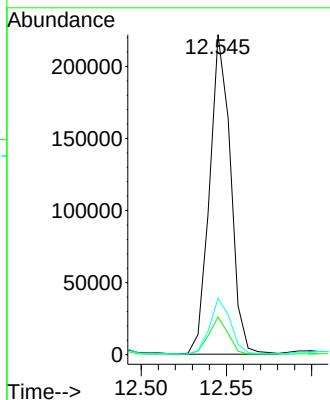
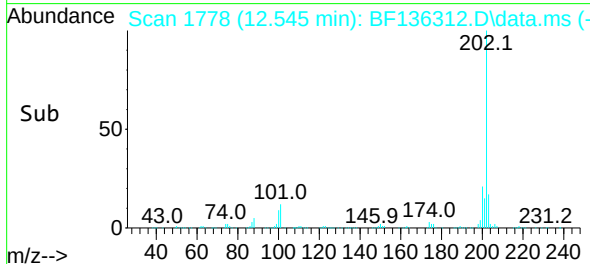
Instrument :
BNA_F
ClientSampleId :
L-3(120FT)(0-5)DL2



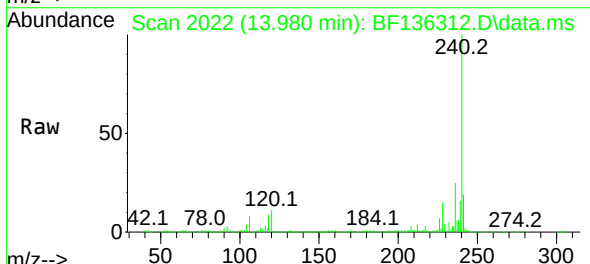
Tgt Ion:202 Resp: 18984
Ion Ratio Lower Upper
202 100
101 11.7 0.0 27.8
203 17.6 0.0 34.5

Manual Integrations
APPROVED

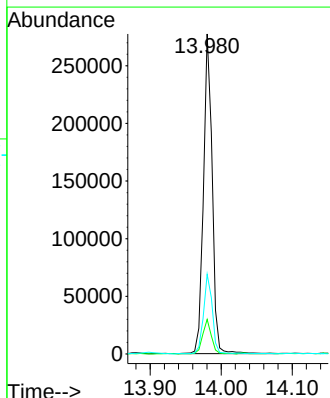
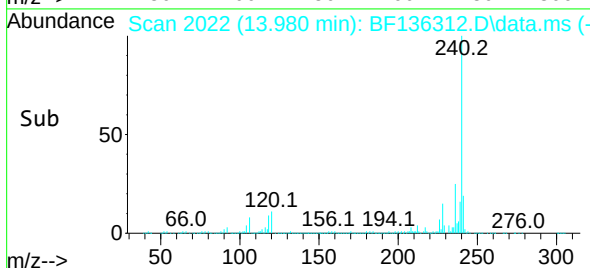
Reviewed By :Yogesh Patel 12/01/2023
Supervised By :mohammad ahmed 12/01/2023

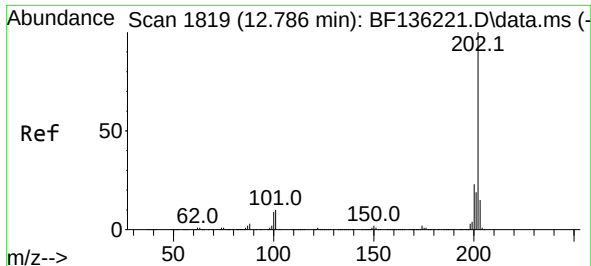


#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.980 min Scan# 2022
Delta R.T. -0.012 min
Lab File: BF136312.D
Acq: 30 Nov 2023 14:20



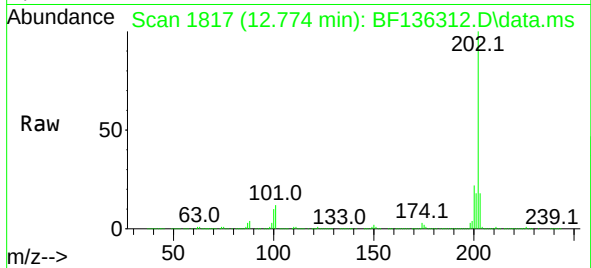
Tgt Ion:240 Resp: 237600
Ion Ratio Lower Upper
240 100
120 10.8 7.4 11.2
236 24.9 21.1 31.7





#78
Pyrene
Concen: 12.578 ng
RT: 12.774 min Scan# 1817
Delta R.T. -0.012 min
Lab File: BF136312.D
Acq: 30 Nov 2023 14:20

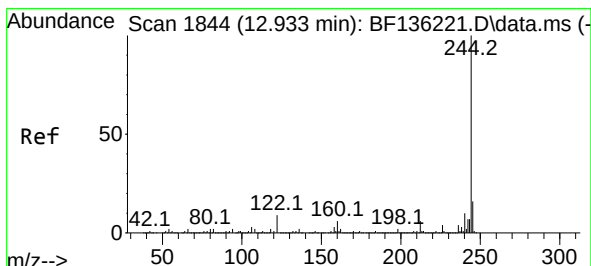
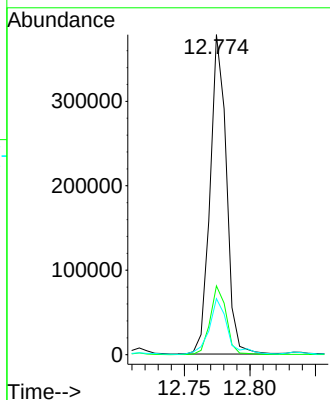
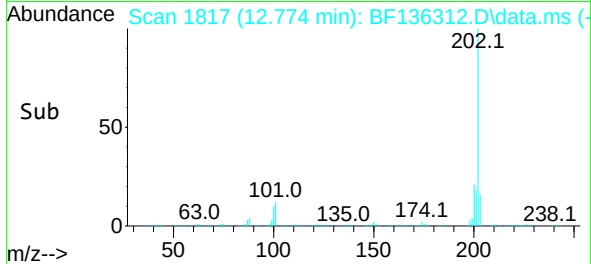
Instrument :
BNA_F
ClientSampleId :
L-3(120FT)(0-5)DL2



Tgt Ion:202 Resp: 327298
Ion Ratio Lower Upper
202 100
200 21.5 18.4 27.6
203 17.5 11.8 17.6

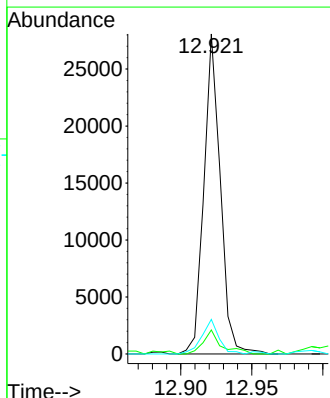
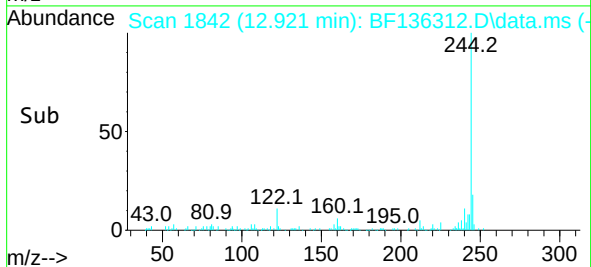
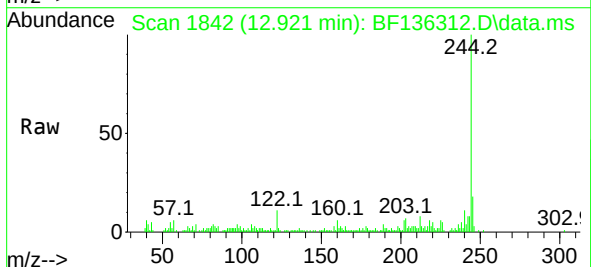
Manual Integrations
APPROVED

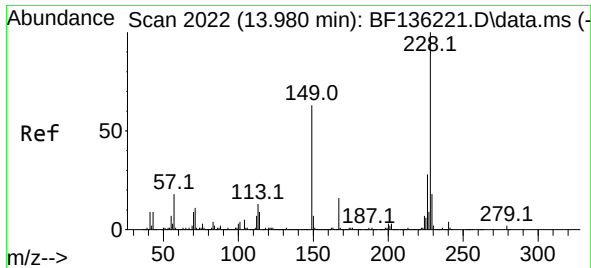
Reviewed By :Yogesh Patel 12/01/2023
Supervised By :mohammad ahmed 12/01/2023



#79
Terphenyl-d14
Concen: 1.103 ng
RT: 12.921 min Scan# 1842
Delta R.T. -0.012 min
Lab File: BF136312.D
Acq: 30 Nov 2023 14:20

Tgt Ion:244 Resp: 22725
Ion Ratio Lower Upper
244 100
212 7.5 4.6 7.0#
122 10.8 7.3 10.9





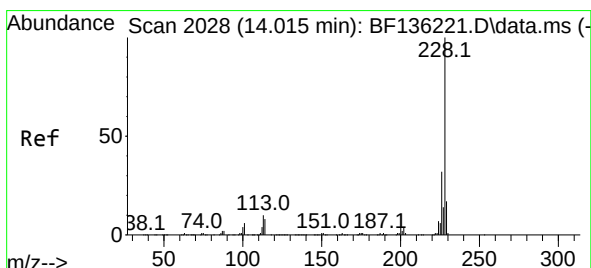
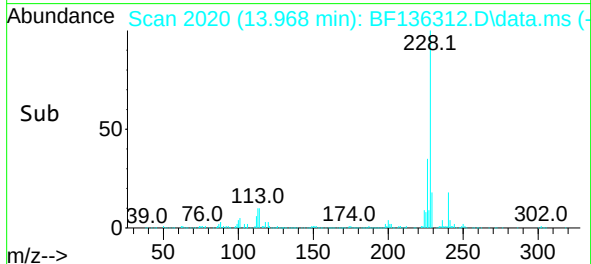
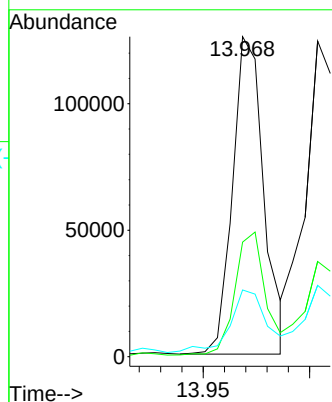
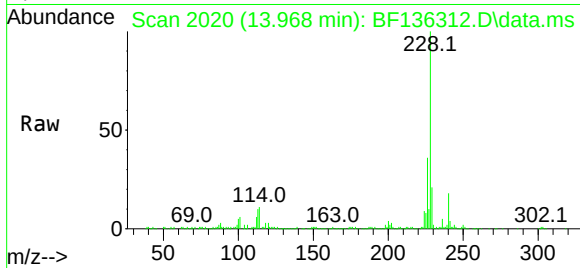
#81
Benzo(a)anthracene
Concen: 7.270 ng
RT: 13.968 min Scan# 2020
Delta R.T. -0.012 min
Lab File: BF136312.D
Acq: 30 Nov 2023 14:20

Instrument :
BNA_F
ClientSampleId :
L-3(120FT)(0-5)DL2

Tgt Ion:228 Resp: 128304
Ion Ratio Lower Upper
228 100
226 35.8 22.6 34.0
229 20.8 14.0 21.0

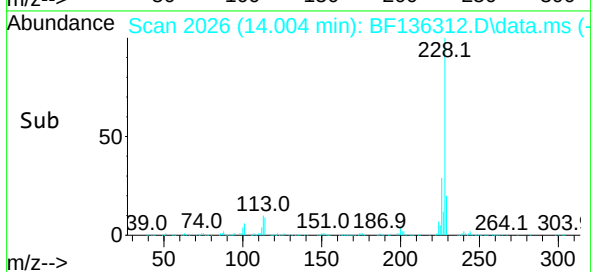
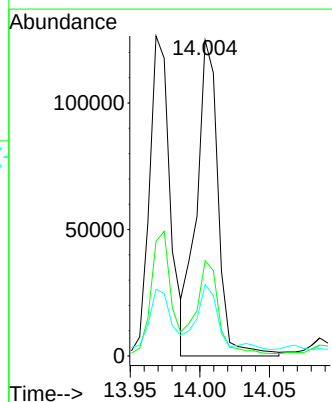
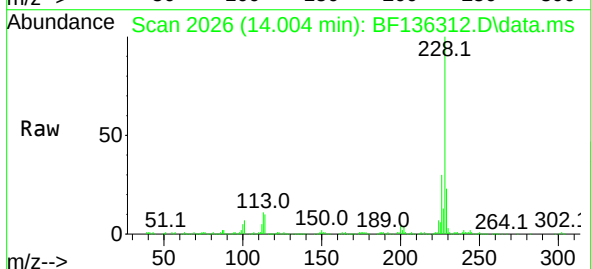
Manual Integrations
APPROVED

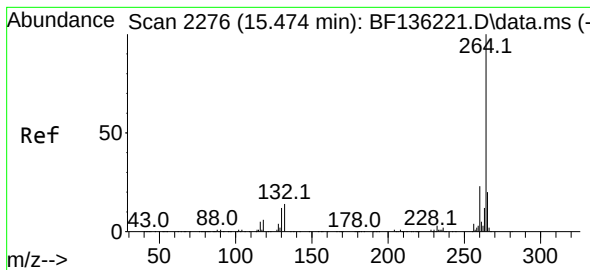
Reviewed By :Yogesh Patel 12/01/2023
Supervised By :mohammad ahmed 12/01/2023



#83
Chrysene
Concen: 7.933 ng m
RT: 14.004 min Scan# 2026
Delta R.T. -0.012 min
Lab File: BF136312.D
Acq: 30 Nov 2023 14:20

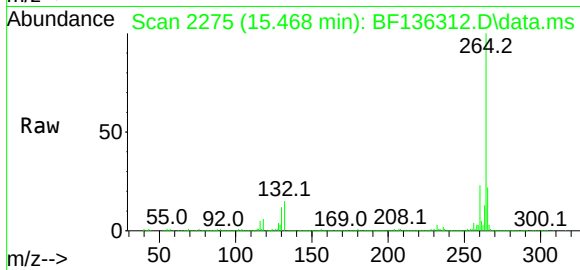
Tgt Ion:228 Resp: 135182
Ion Ratio Lower Upper
228 100
226 30.2 25.5 38.3
229 22.6 13.9 20.9#





#86
Perylene-d12
Concen: 20.000 ng
RT: 15.468 min Scan# 21
Delta R.T. -0.006 min
Lab File: BF136312.D
Acq: 30 Nov 2023 14:20

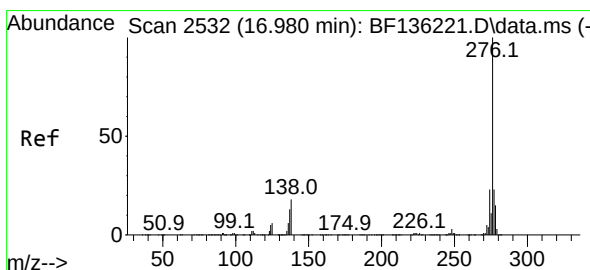
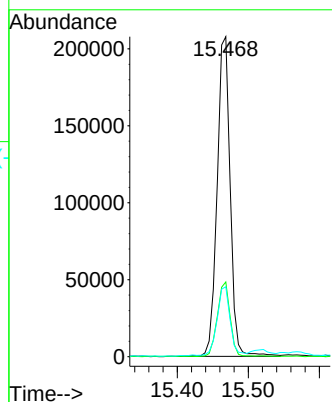
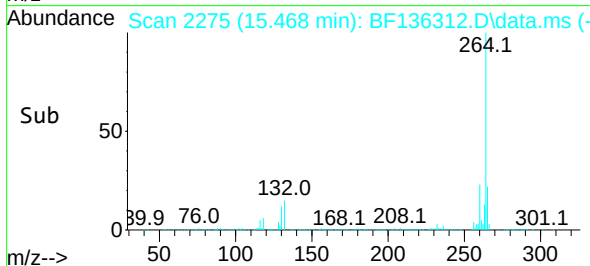
Instrument :
BNA_F
ClientSampleId :
L-3(120FT)(0-5)DL2



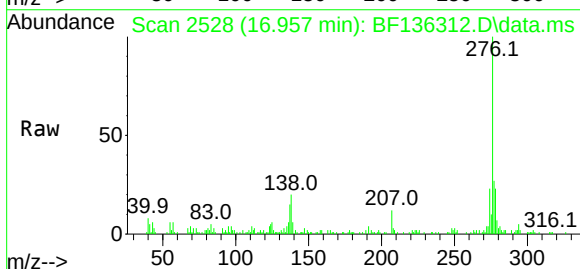
Tgt Ion:264 Resp: 264609
Ion Ratio Lower Upper
264 100
260 23.3 18.6 27.8
265 21.9 15.7 23.5

Manual Integrations
APPROVED

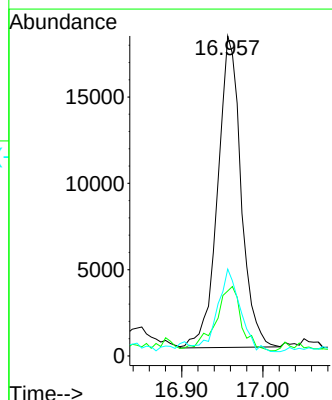
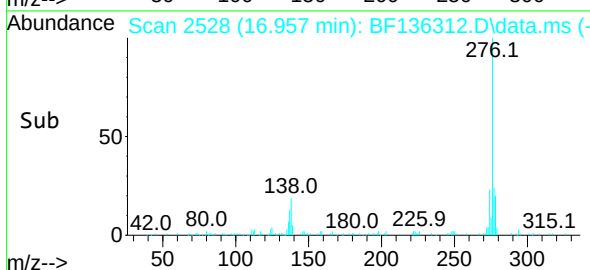
Reviewed By :Yogesh Patel 12/01/2023
Supervised By :mohammad ahmed 12/01/2023

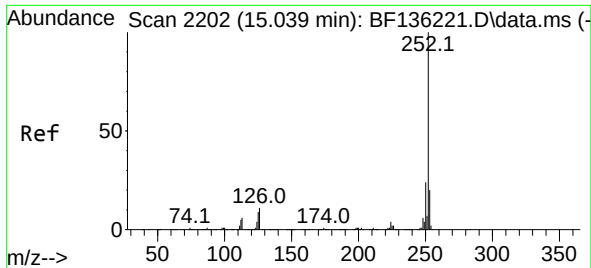


#87
Indeno(1,2,3-cd)pyrene
Concen: 4.400 ng
RT: 16.957 min Scan# 2528
Delta R.T. -0.023 min
Lab File: BF136312.D
Acq: 30 Nov 2023 14:20



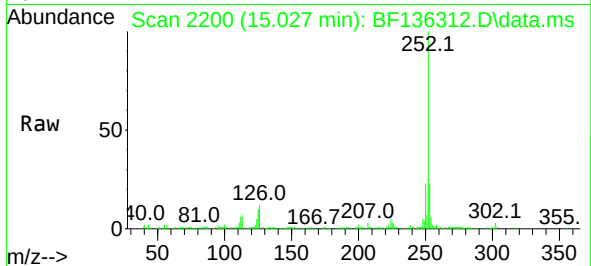
Tgt Ion:276 Resp: 36058
Ion Ratio Lower Upper
276 100
138 23.0 17.7 26.5
277 25.9 19.6 29.4





#88
Benzo(b)fluoranthene
Concen: 5.608 ng m
RT: 15.027 min Scan# 210
Delta R.T. -0.012 min
Lab File: BF136312.D
Acq: 30 Nov 2023 14:20

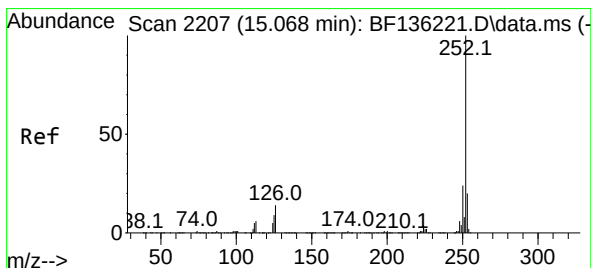
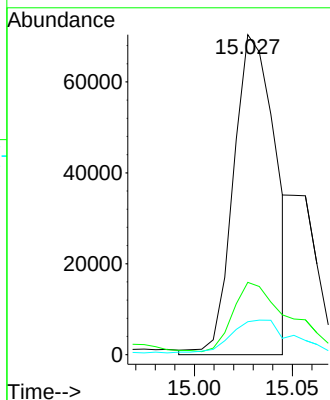
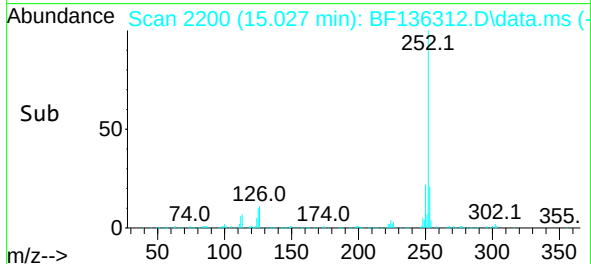
Instrument :
BNA_F
ClientSampleId :
L-3(120FT)(0-5)DL2



Tgt Ion:252 Resp: 104110
Ion Ratio Lower Upper
252 100
253 22.6 16.2 24.2
125 10.3 6.9 10.3

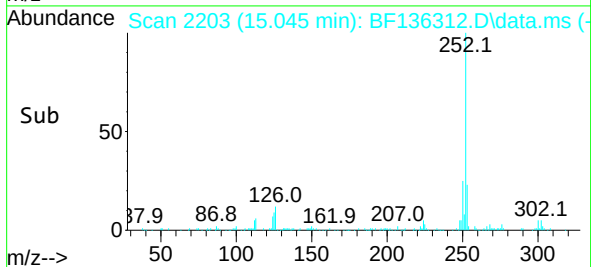
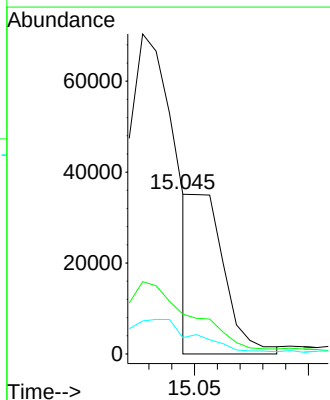
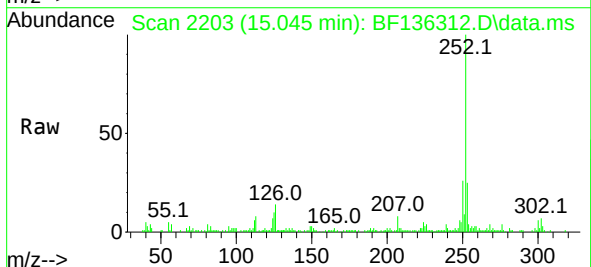
Manual Integrations
APPROVED

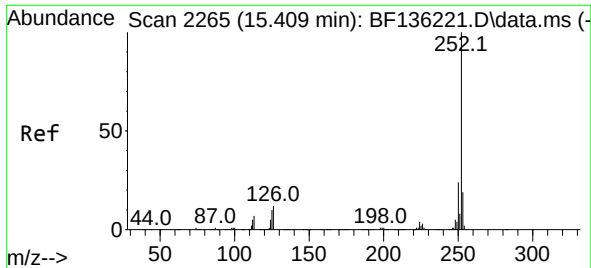
Reviewed By :Yogesh Patel 12/01/2023
Supervised By :mohammad ahmed 12/01/2023



#89
Benzo(k)fluoranthene
Concen: 2.053 ng m
RT: 15.045 min Scan# 2203
Delta R.T. -0.023 min
Lab File: BF136312.D
Acq: 30 Nov 2023 14:20

Tgt Ion:252 Resp: 36194
Ion Ratio Lower Upper
252 100
253 25.0 15.6 23.4#
125 10.3 7.0 10.4





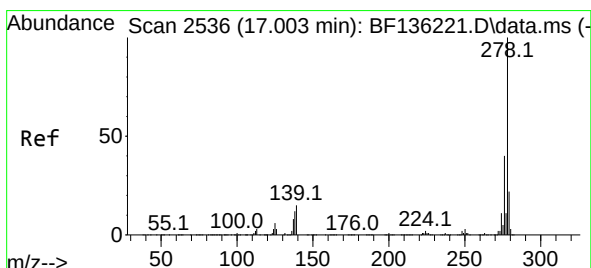
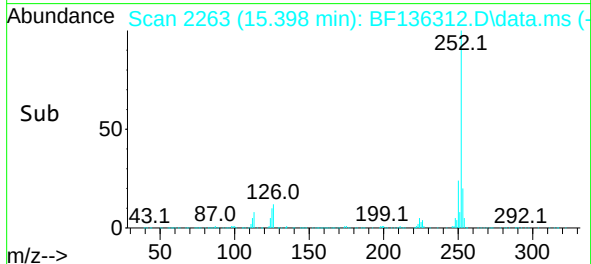
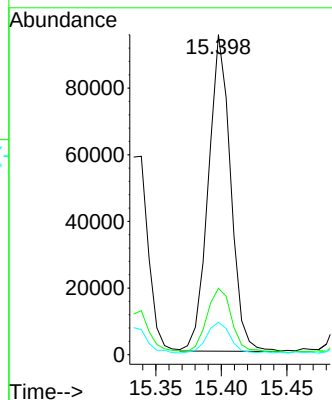
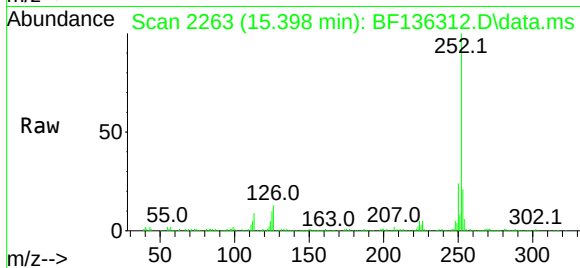
#90
Benzo(a)pyrene
Concen: 7.421 ng
RT: 15.398 min Scan# 21
Delta R.T. -0.011 min
Lab File: BF136312.D
Acq: 30 Nov 2023 14:20

Instrument :
BNA_F
ClientSampleId :
L-3(120FT)(0-5)DL2

Tgt Ion:252 Resp: 112620
Ion Ratio Lower Upper
252 100
253 20.8 15.5 23.3
125 10.2 7.9 11.9

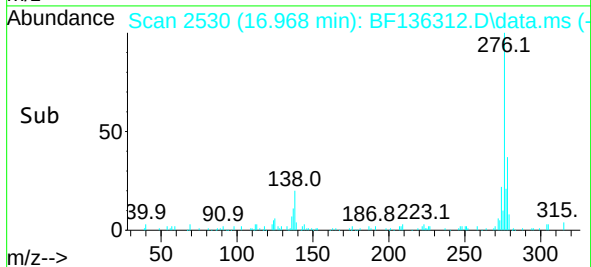
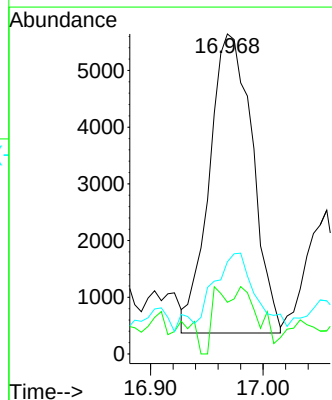
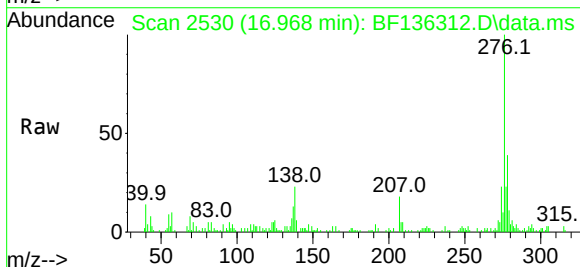
Manual Integrations
APPROVED

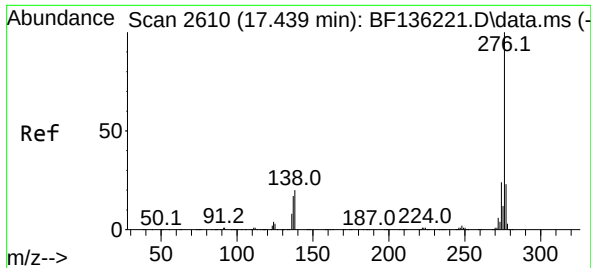
Reviewed By :Yogesh Patel 12/01/2023
Supervised By :mohammad ahmed 12/01/2023



#91
Dibenzo(a,h)anthracene
Concen: 3.546 ng m
RT: 16.968 min Scan# 2530
Delta R.T. -0.035 min
Lab File: BF136312.D
Acq: 30 Nov 2023 14:20

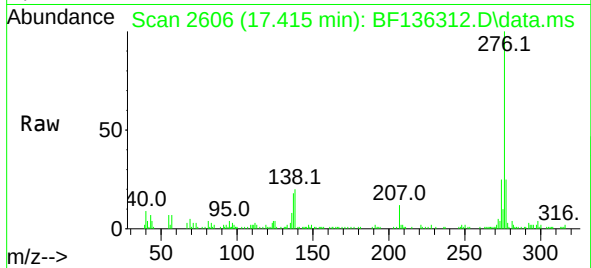
Tgt Ion:278 Resp: 14007
Ion Ratio Lower Upper
278 100
139 16.2 11.7 17.5
279 28.8 17.8 26.8#





#92
 Benzo(g,h,i)perylene
 Concen: 4.301 ng
 RT: 17.415 min Scan# 20
 Delta R.T. -0.024 min
 Lab File: BF136312.D
 Acq: 30 Nov 2023 14:20

Instrument :
 BNA_F
 ClientSampleId :
 L-3(120FT)(0-5)DL2



Tgt Ion: 276 Resp: 39815
 Ion Ratio Lower Upper
 276 100
 277 25.2 18.6 27.8
 138 20.0 15.8 23.8

Manual Integrations
 APPROVED

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

