

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF061323\
 Data File : BF133741.D
 Acq On : 13 Jun 2023 20:39
 Operator : CG\JU
 Sample : 03044-11DL 5X
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-07-0-2.0DL

Quant Time: Jun 13 21:51:27 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF060923.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jun 13 11:26:55 2023
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 06/14/2023
 Supervised By :mohammad ahmed 06/16/2023

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.834	152	56890	20.000	ng	0.00
21) Naphthalene-d8	8.116	136	187089	20.000	ng	0.00
39) Acenaphthene-d10	9.869	164	90977	20.000	ng	-0.01
64) Phenanthrene-d10	11.357	188	207001	20.000	ng	-0.01
76) Chrysene-d12	14.004	240	162703	20.000	ng	-0.01
86) Perylene-d12	15.468	264	110848	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.434	112	56796	17.380	ng	-0.01
7) Phenol-d6	6.451	99	60837	14.302	ng	-0.02
23) Nitrobenzene-d5	7.386	82	34945	10.173	ng	-0.02
42) 2,4,6-Tribromophenol	10.657	330	18840	16.360	ng	-0.01
45) 2-Fluorobiphenyl	9.186	172	71366	11.151	ng	-0.01
79) Terphenyl-d14	12.945	244	107585	10.232	ng	-0.01
Target Compounds						Qvalue
52) Acenaphthene	9.904	154	23082	4.305	ng	99
55) Dibenzofuran	10.075	168	24607	3.007	ng	93
58) Fluorene	10.416	166	31874	5.094	ng	98
71) Phenanthrene	11.386	178	402173	38.294	ng	100
72) Anthracene	11.433	178	99732	9.108	ng	98
73) Carbazole	11.586	167	27880	2.734	ng	99
75) Fluoranthene	12.574	202	474181	42.517	ng	99
78) Pyrene	12.804	202	421388	27.803	ng	98
81) Benzo(a)anthracene	13.992	228	180350	16.025	ng	98
83) Chrysene	14.033	228	152090	14.288	ng	97
87) Indeno(1,2,3-cd)pyrene	16.921	276	43526	5.708	ng	99
88) Benzo(b)fluoranthene	15.039	252	111725m	16.592	ng	
89) Benzo(k)fluoranthene	15.068	252	41561m	6.336	ng	
90) Benzo(a)pyrene	15.404	252	82625	13.222	ng	97
91) Dibenzo(a,h)anthracene	16.933	278	13276	2.103	ng	# 81
92) Benzo(g,h,i)perylene	17.362	276	40501	6.470	ng	# 95

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

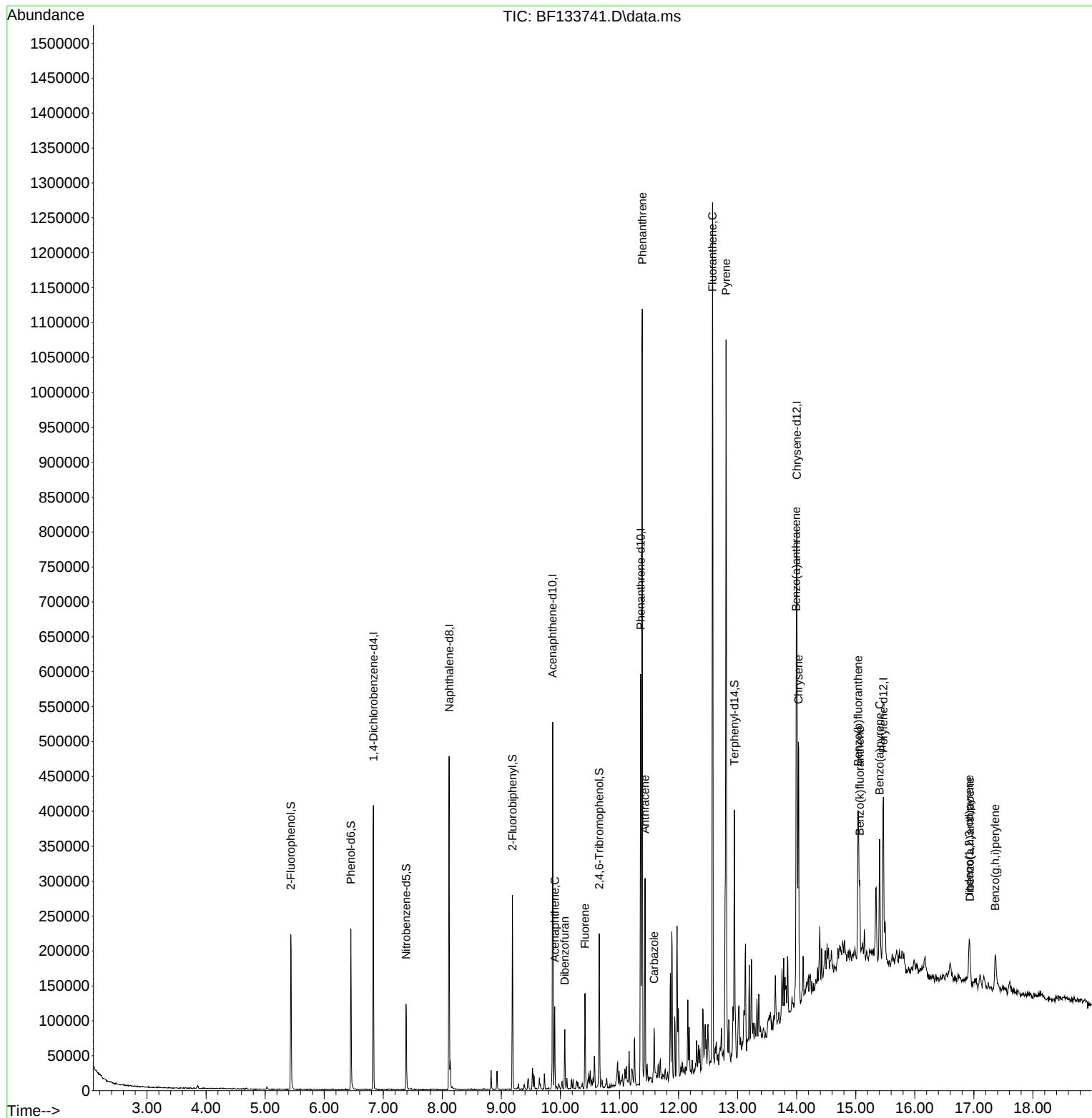
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF061323\
Data File : BF133741.D
Acq On : 13 Jun 2023 20:39
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Sample : 03044-11DL 5X
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ALS Vial : 21 Sample Multiplier: 1

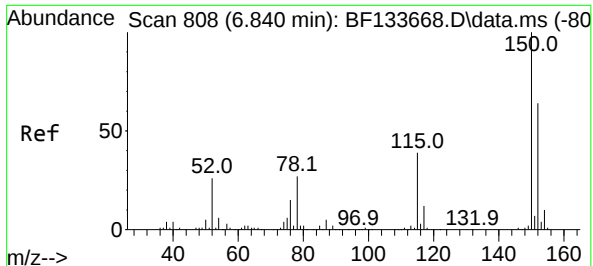
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SB-07-0-2.0DL

Quant Time: Jun 13 21:51:27 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF060923.M
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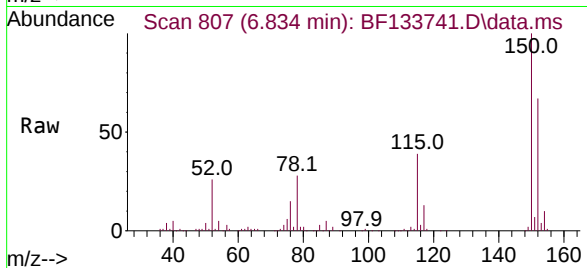
Reviewed By :Yogesh Patel 06/14/2023
Supervised By :mohammad ahmed 06/16/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.834 min Scan# 808
Delta R.T. -0.000 min
Lab File: BF133741.D
Acq: 13 Jun 2023 20:39

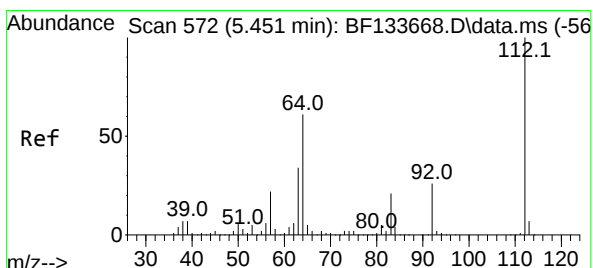
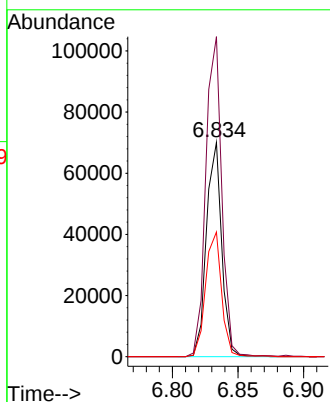
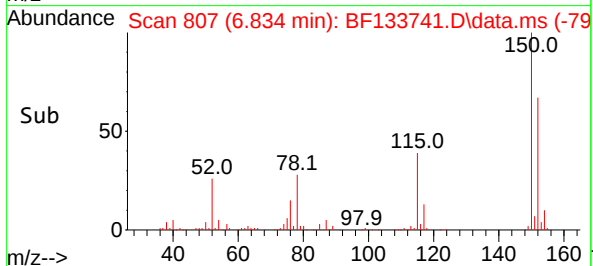
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BNA_F
ClientSampleId :
SB-07-0-2.0DL



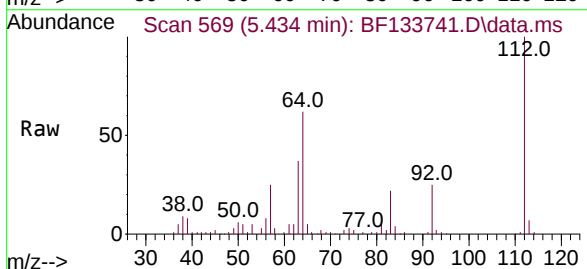
Tgt Ion:152 Resp: 56890
Ion Ratio Lower Upper
152 100
150 149.3 124.3 186.5
115 58.2 48.5 72.7

Manual Integrations
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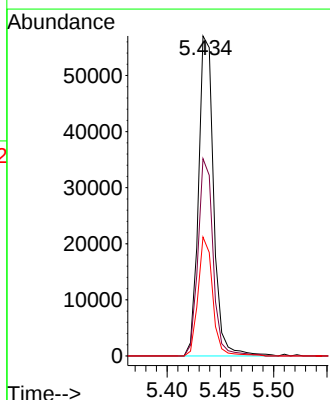
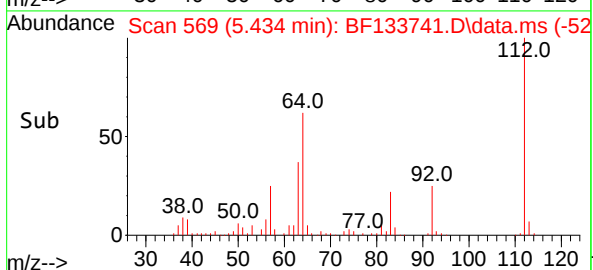
Reviewed By :Yogesh Patel 06/14/2023
Supervised By :mohammad ahmed 06/16/2023

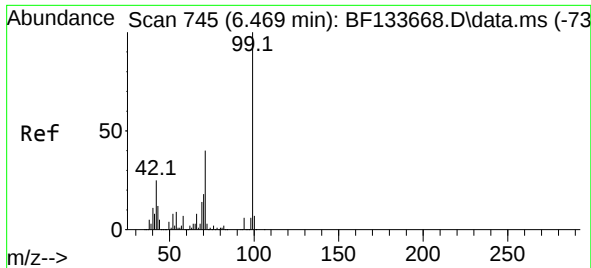


#5
2-Fluorophenol
Concen: 17.380 ng
RT: 5.434 min Scan# 569
Delta R.T. -0.012 min
Lab File: BF133741.D
Acq: 13 Jun 2023 20:39



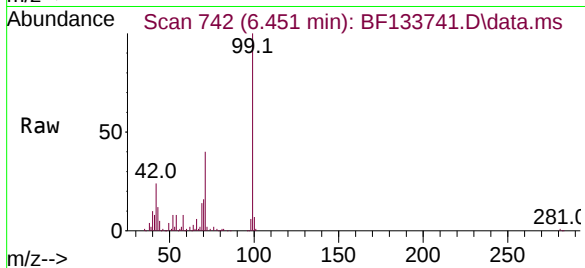
Tgt Ion:112 Resp: 56796
Ion Ratio Lower Upper
112 100
64 61.7 49.0 73.4
63 37.2 26.8 40.2





#7
Phenol-d6
Concen: 14.302 ng
RT: 6.451 min Scan# 745
Delta R.T. -0.018 min
Lab File: BF133741.D
Acq: 13 Jun 2023 20:39

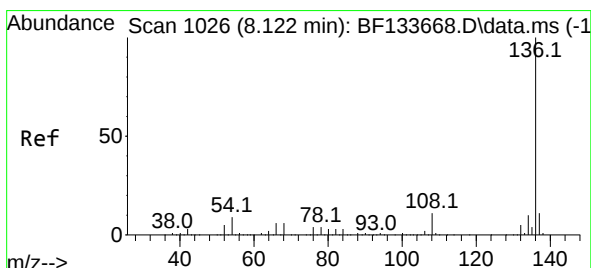
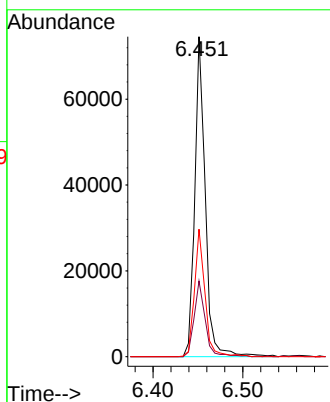
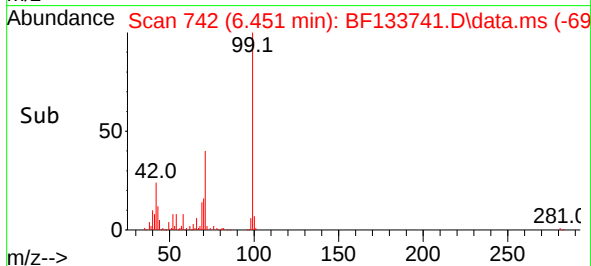
Instrument :
BNA_F
ClientSampleId :
SB-07-0-2.0DL



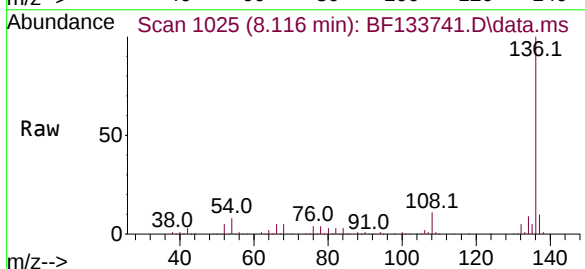
Tgt Ion: 99 Resp: 6083
Ion Ratio Lower Upper
99 100
42 23.6 19.9 29.9
71 39.9 32.2 48.4

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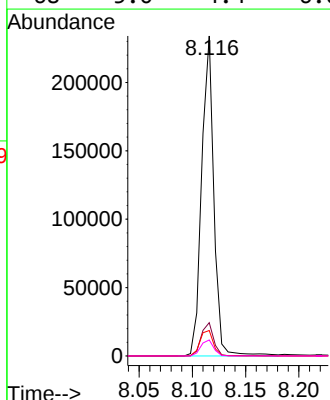
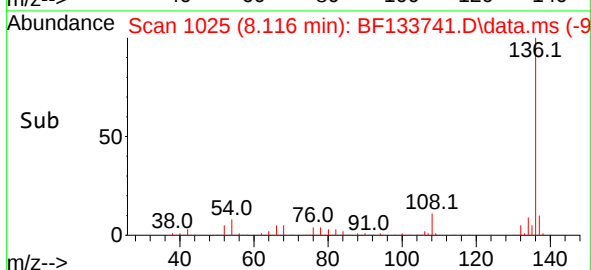
Reviewed By :Yogesh Patel 06/14/2023
Supervised By :mohammad ahmed 06/16/2023

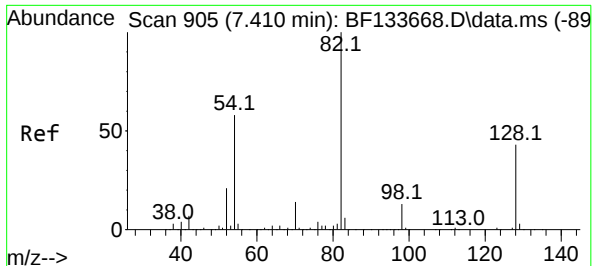


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.116 min Scan# 1025
Delta R.T. -0.006 min
Lab File: BF133741.D
Acq: 13 Jun 2023 20:39



Tgt Ion:136 Resp: 187089
Ion Ratio Lower Upper
136 100
137 10.4 8.8 13.2
54 8.0 7.4 11.0
68 5.0 4.4 6.6





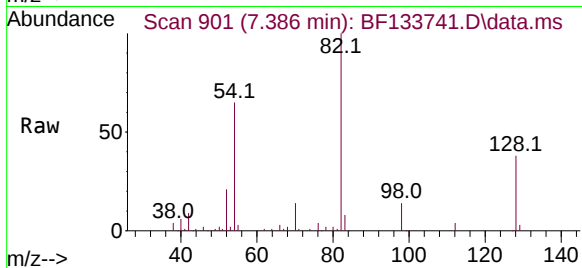
#23
Nitrobenzene-d5
Concen: 10.173 ng
RT: 7.386 min Scan# 905
Delta R.T. -0.018 min
Lab File: BF133741.D
Acq: 13 Jun 2023 20:39

Instrument :

BNA_F

ClientSampleId :

SB-07-0-2.0DL

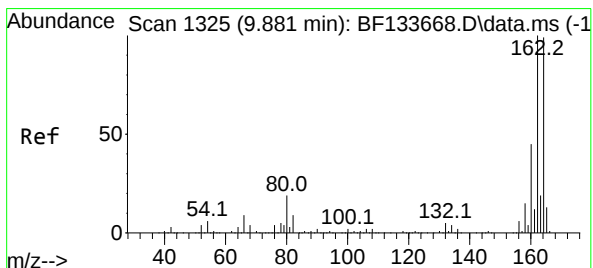
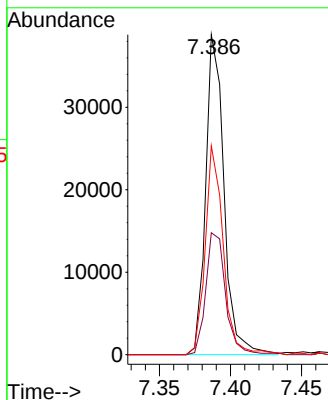
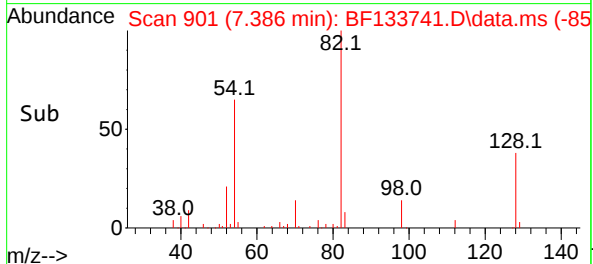


Tgt Ion: 82 Resp: 34945
Ion Ratio Lower Upper
82 100
128 38.1 34.2 51.2
54 65.3 46.5 69.7

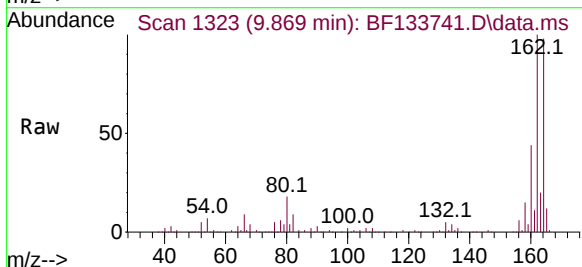
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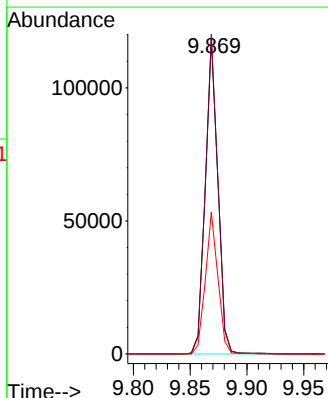
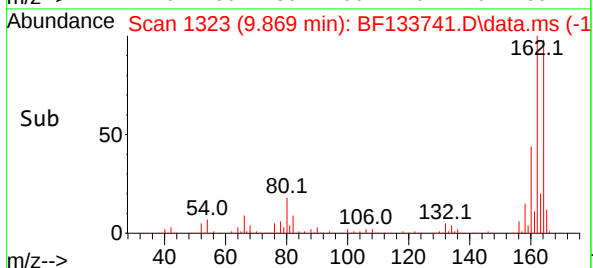
Reviewed By :Yogesh Patel 06/14/2023
Supervised By :mohammad ahmed 06/16/2023

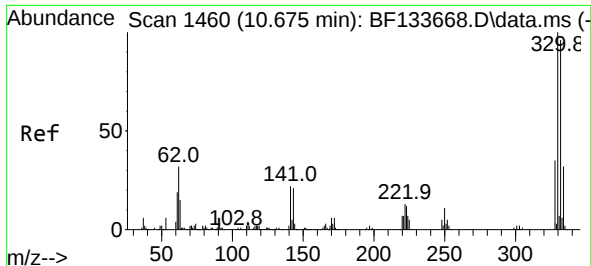


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.869 min Scan# 1323
Delta R.T. -0.012 min
Lab File: BF133741.D
Acq: 13 Jun 2023 20:39



Tgt Ion:164 Resp: 90977
Ion Ratio Lower Upper
164 100
162 101.7 80.8 121.2
160 45.0 36.7 55.1





#42
2,4,6-Tribromophenol
Concen: 16.360 ng
RT: 10.657 min Scan# 1460
Delta R.T. -0.012 min
Lab File: BF133741.D
Acq: 13 Jun 2023 20:39

Instrument :

BNA_F

ClientSampleId :

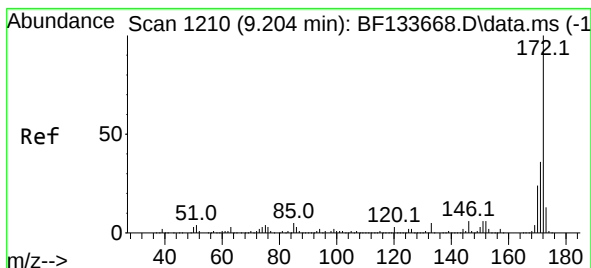
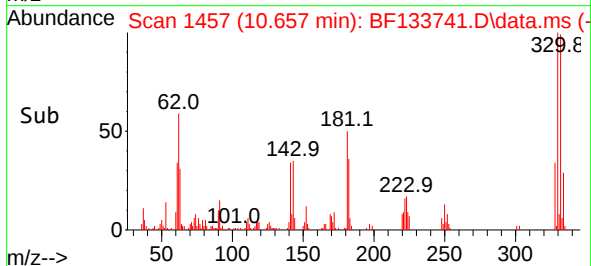
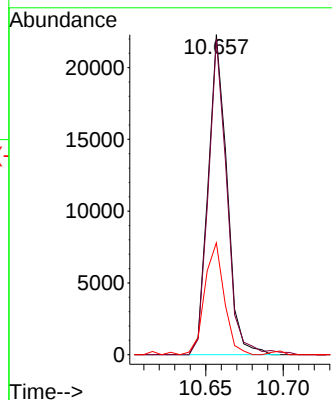
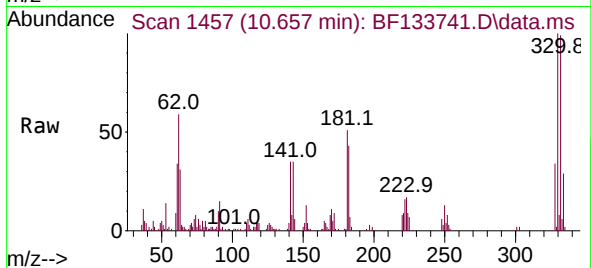
SB-07-0-2.0DL

Tgt Ion:330 Resp: 18840
Ion Ratio Lower Upper
330 100
332 97.2 77.2 115.8
141 36.2 24.9 37.3

Manual Integrations

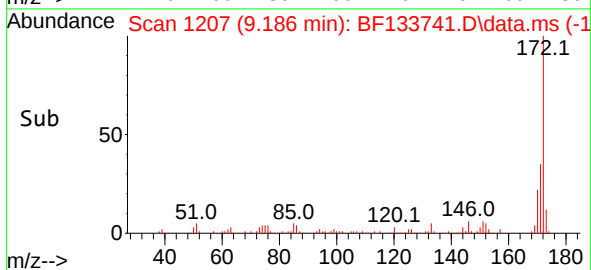
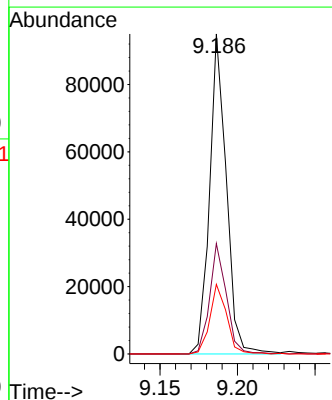
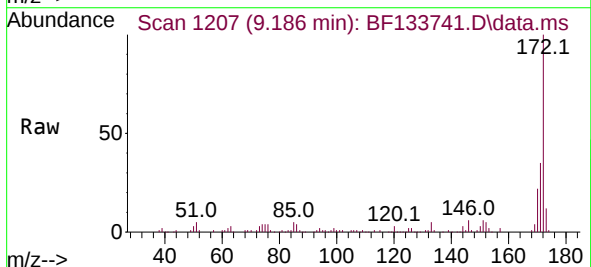
APPROVED

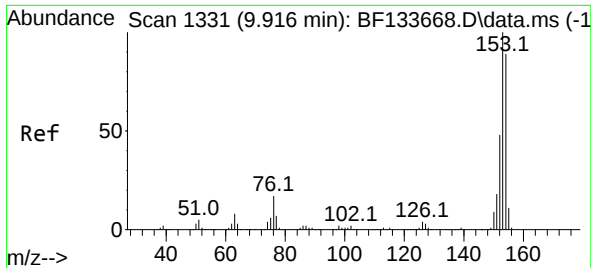
Reviewed By :Yogesh Patel 06/14/2023
Supervised By :mohammad ahmed 06/16/2023



#45
2-Fluorobiphenyl
Concen: 11.151 ng
RT: 9.186 min Scan# 1207
Delta R.T. -0.012 min
Lab File: BF133741.D
Acq: 13 Jun 2023 20:39

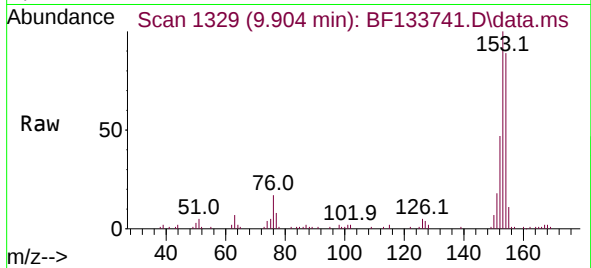
Tgt Ion:172 Resp: 71366
Ion Ratio Lower Upper
172 100
171 34.5 28.6 43.0
170 21.7 19.1 28.7





#52
Acenaphthene
Concen: 4.305 ng
RT: 9.904 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF133741.D
Acq: 13 Jun 2023 20:39

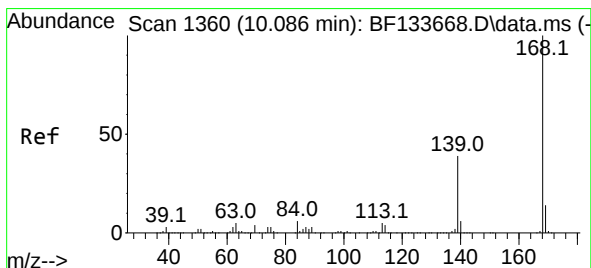
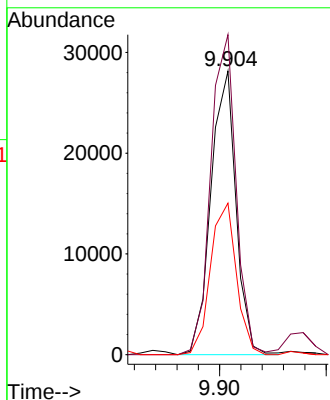
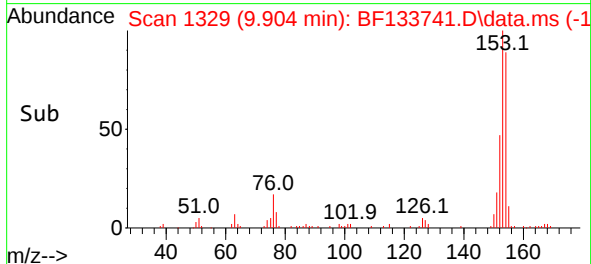
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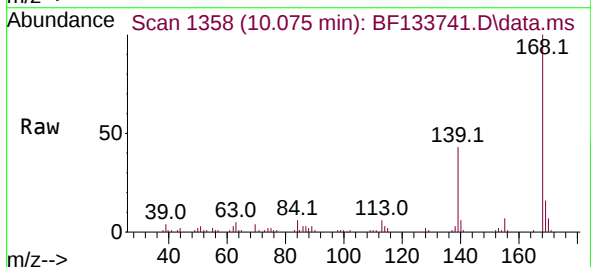
Tgt Ion:154 Resp: 2308
Ion Ratio Lower Upper
154 100
153 112.9 89.8 134.8
152 53.4 43.4 65.2

Manual Integrations
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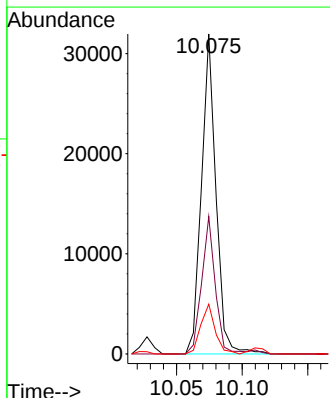
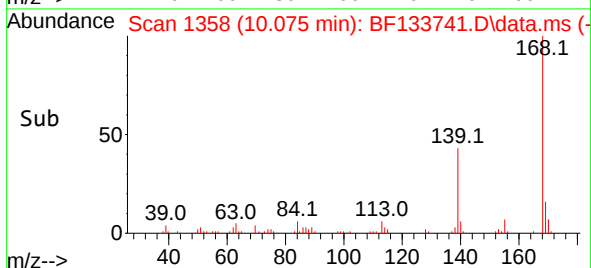
Reviewed By :Yogesh Patel 06/14/2023
Supervised By :mohammad ahmed 06/16/2023

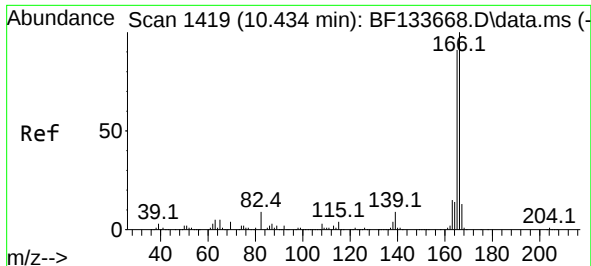


#55
Dibenzofuran
Concen: 3.007 ng
RT: 10.075 min Scan# 1358
Delta R.T. -0.012 min
Lab File: BF133741.D
Acq: 13 Jun 2023 20:39



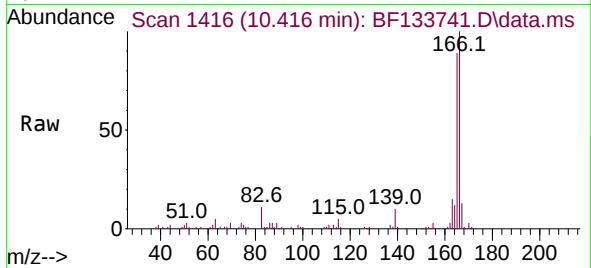
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Ion Ratio Lower Upper
168 100
139 43.0 30.9 46.3
169 15.5 10.9 16.3





#58
Fluorene
Concen: 5.094 ng
RT: 10.416 min Scan# 1419
Delta R.T. -0.012 min
Lab File: BF133741.D
Acq: 13 Jun 2023 20:39

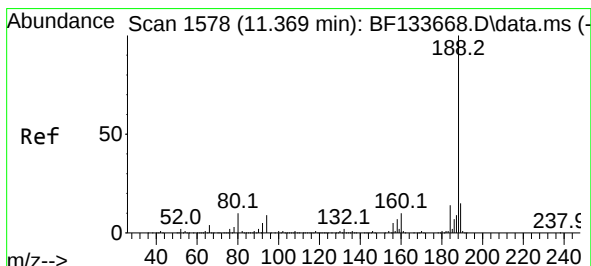
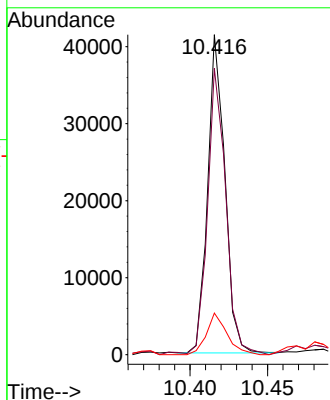
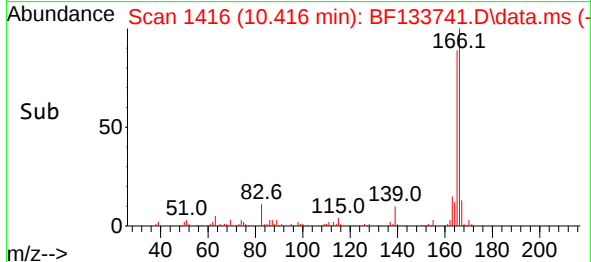
Instrument :
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SB-07-0-2.0DL



Tgt Ion:166 Resp: 31874
Ion Ratio Lower Upper
166 100
165 89.4 73.1 109.7
167 13.0 10.5 15.7

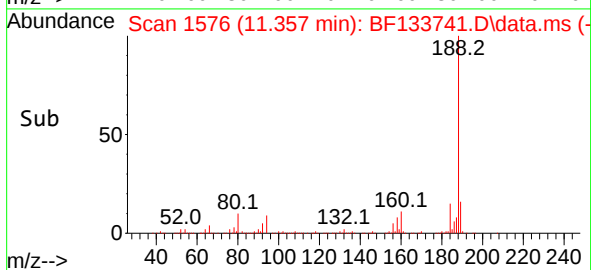
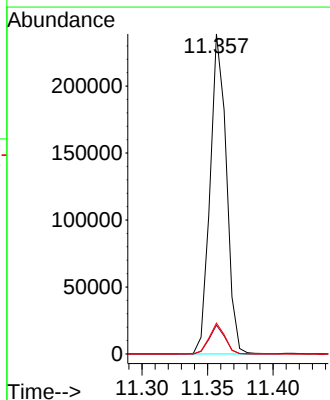
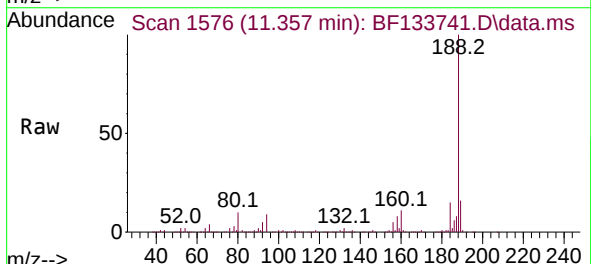
Manual Integrations
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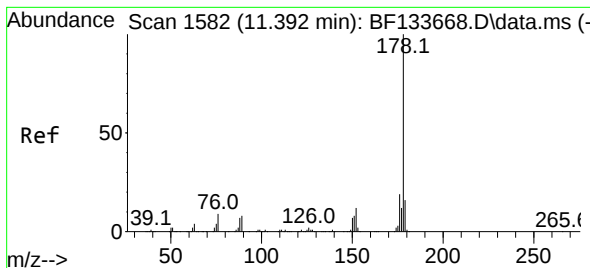
Reviewed By :Yogesh Patel 06/14/2023
Supervised By :mohammad ahmed 06/16/2023



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.357 min Scan# 1576
Delta R.T. -0.012 min
Lab File: BF133741.D
Acq: 13 Jun 2023 20:39

Tgt Ion:188 Resp: 207001
Ion Ratio Lower Upper
188 100
94 9.0 6.8 10.2
80 9.6 7.8 11.6





#71

Phenanthrene

Concen: 38.294 ng

RT: 11.386 min Scan# 1581

Delta R.T. -0.006 min

Lab File: BF133741.D

Acq: 13 Jun 2023 20:39

Instrument :

BNA_F

ClientSampleId :

SB-07-0-2.0DL

Tgt Ion:178 Resp: 40217

Ion Ratio Lower Upper

178 100

176 19.5 15.6 23.4

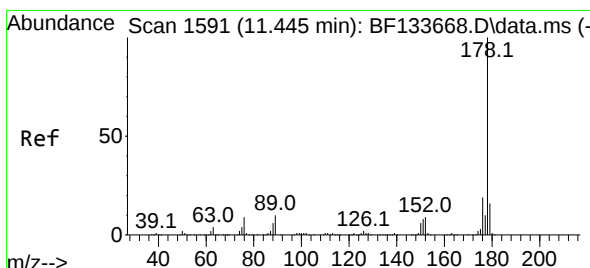
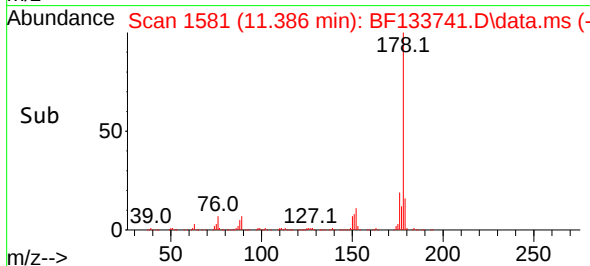
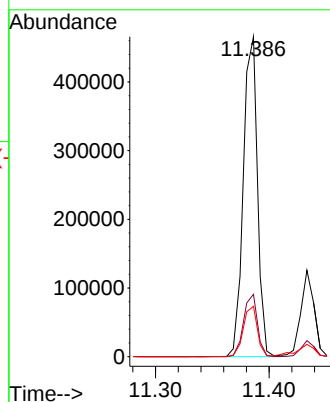
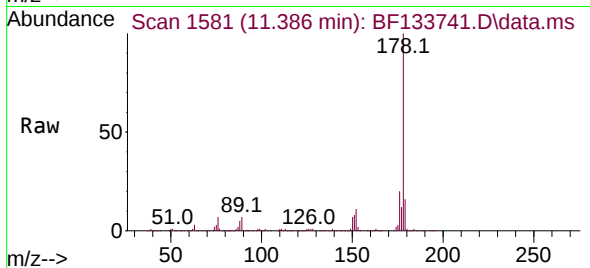
179 15.8 12.4 18.6

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 06/14/2023

Supervised By :mohammad ahmed 06/16/2023



#72

Anthracene

Concen: 9.108 ng

RT: 11.433 min Scan# 1589

Delta R.T. -0.012 min

Lab File: BF133741.D

Acq: 13 Jun 2023 20:39

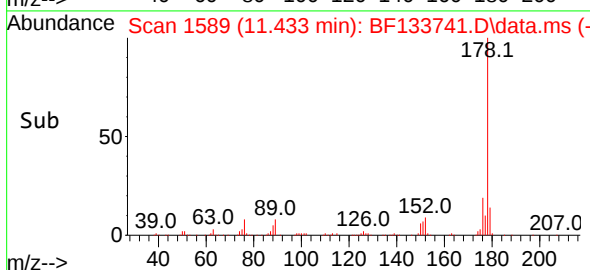
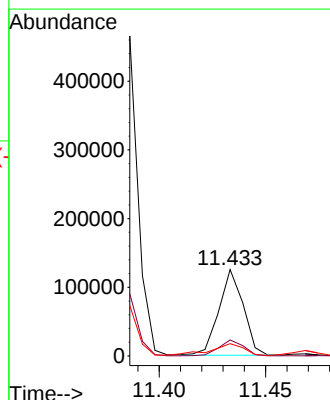
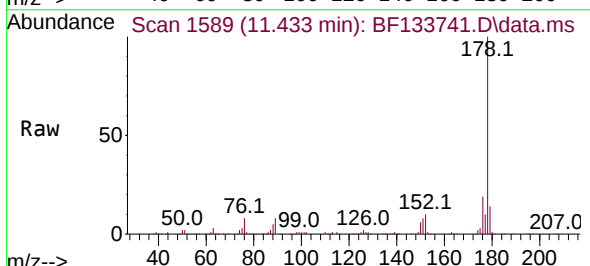
Tgt Ion:178 Resp: 99732

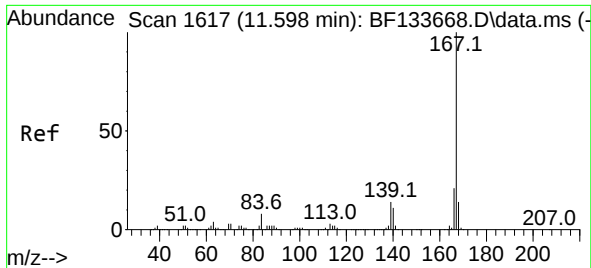
Ion Ratio Lower Upper

178 100

176 18.5 15.1 22.7

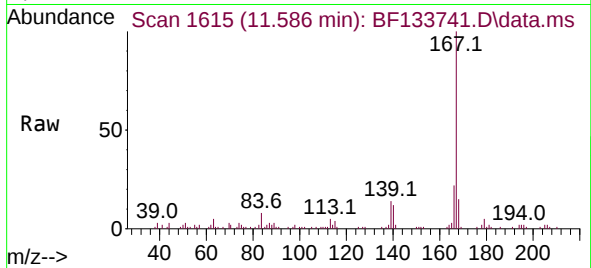
179 14.2 12.6 18.8





#73
 Carbazole
 Concen: 2.734 ng
 RT: 11.586 min Scan# 1615
 Delta R.T. -0.012 min
 Lab File: BF133741.D
 Acq: 13 Jun 2023 20:39

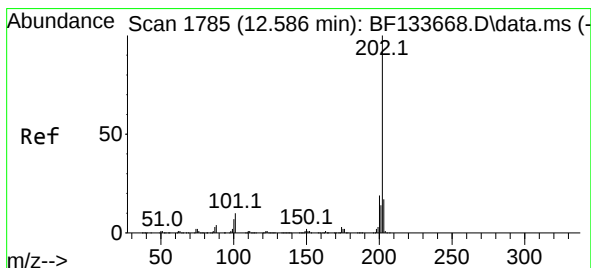
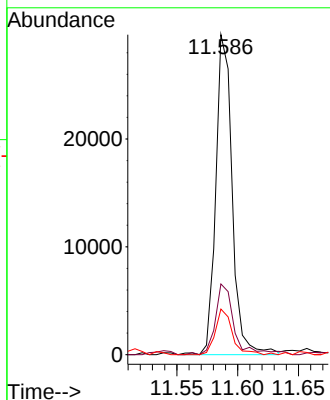
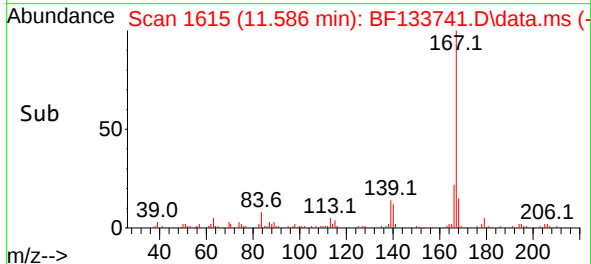
Instrument :
 BNA_F
 ClientSampleId :
 SB-07-0-2.0DL



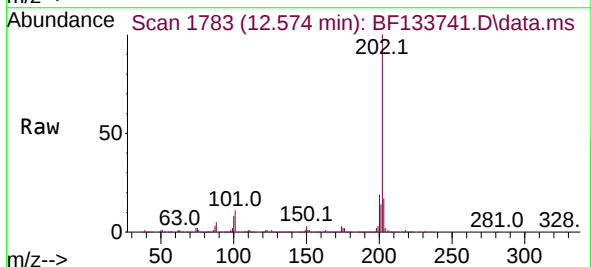
Tgt Ion:167 Resp: 27880
 Ion Ratio Lower Upper
 167 100
 166 22.1 17.0 25.6
 139 14.2 11.2 16.8

Manual Integrations
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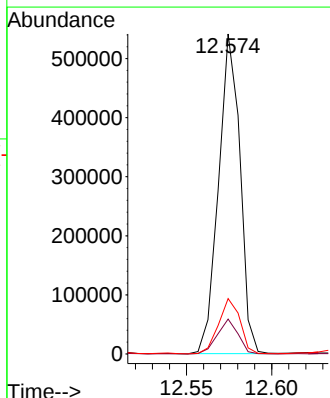
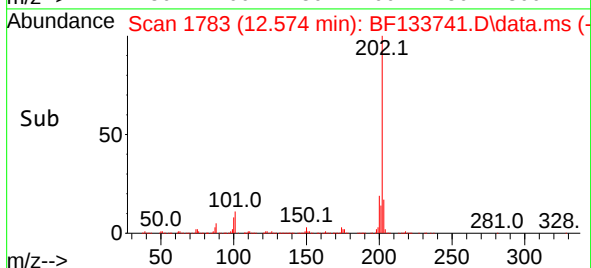
Reviewed By :Yogesh Patel 06/14/2023
 Supervised By :mohammad ahmed 06/16/2023

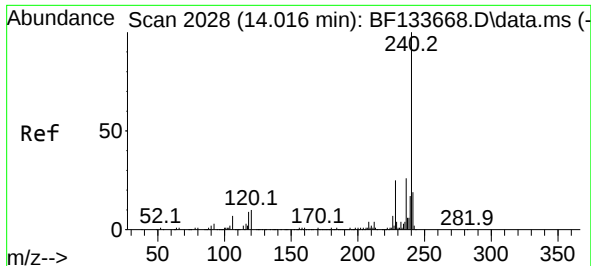


#75
 Fluoranthene
 Concen: 42.517 ng
 RT: 12.574 min Scan# 1783
 Delta R.T. -0.012 min
 Lab File: BF133741.D
 Acq: 13 Jun 2023 20:39



Tgt Ion:202 Resp: 474181
 Ion Ratio Lower Upper
 202 100
 101 10.9 0.0 29.6
 203 17.3 0.0 37.4





#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.004 min Scan# 2028
Delta R.T. -0.012 min
Lab File: BF133741.D
Acq: 13 Jun 2023 20:39

Instrument :

BNA_F

ClientSampleId :

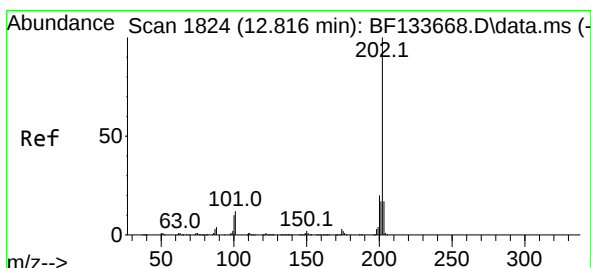
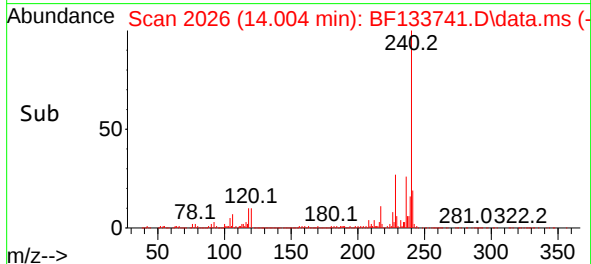
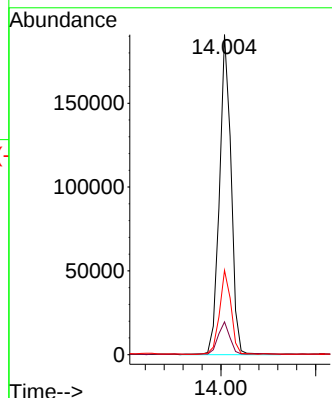
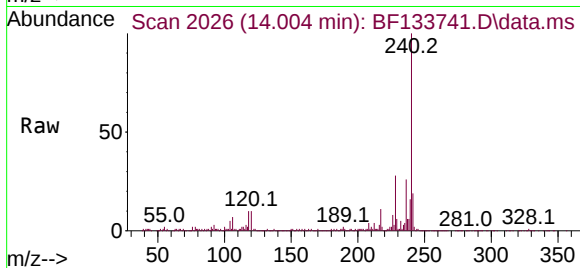
SB-07-0-2.0DL

Tgt Ion:240 Resp: 162700
Ion Ratio Lower Upper
240 100
120 10.2 8.1 12.1
236 26.4 20.5 30.7

Manual Integrations

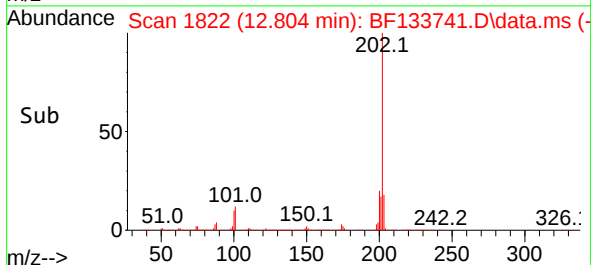
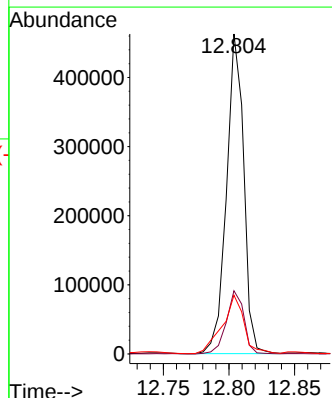
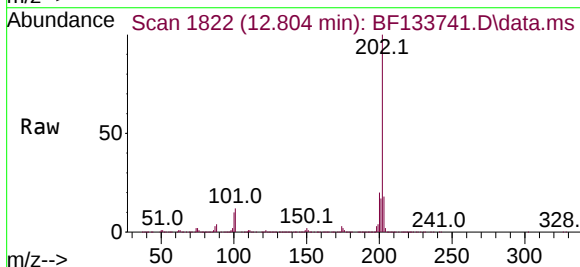
APPROVED

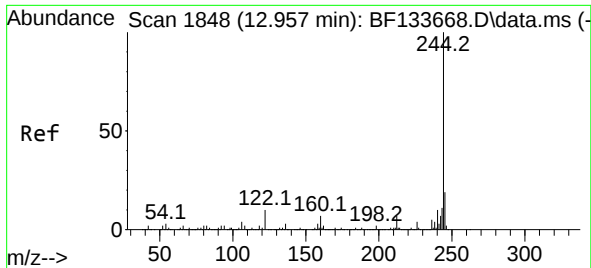
Reviewed By :Yogesh Patel 06/14/2023
Supervised By :mohammad ahmed 06/16/2023



#78
Pyrene
Concen: 27.803 ng
RT: 12.804 min Scan# 1822
Delta R.T. -0.012 min
Lab File: BF133741.D
Acq: 13 Jun 2023 20:39

Tgt Ion:202 Resp: 421388
Ion Ratio Lower Upper
202 100
200 19.7 16.2 24.2
203 18.4 13.9 20.9





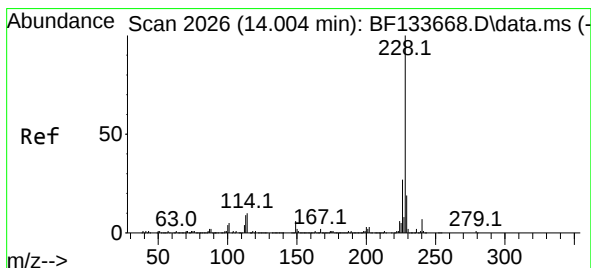
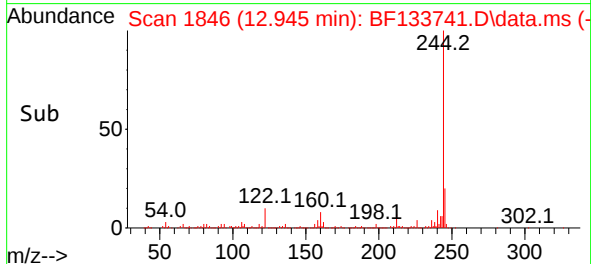
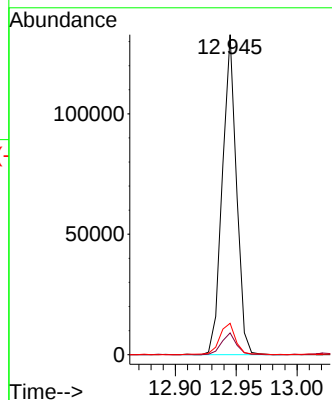
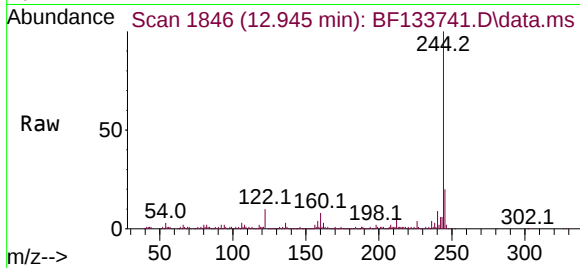
#79
 Terphenyl-d14
 Concen: 10.232 ng
 RT: 12.945 min Scan# 11
 Delta R.T. -0.012 min
 Lab File: BF133741.D
 Acq: 13 Jun 2023 20:39

Instrument :
 BNA_F
 ClientSampleId :
 SB-07-0-2.0DL

Tgt Ion:244 Resp: 10758
 Ion Ratio Lower Upper
 244 100
 212 6.8 5.4 8.2
 122 9.8 8.1 12.1

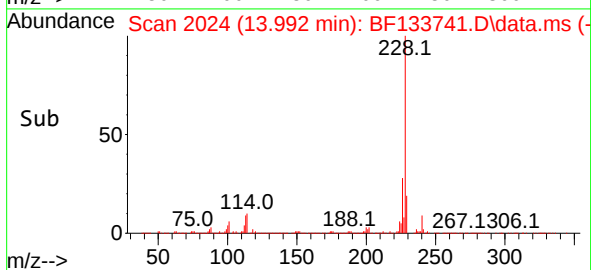
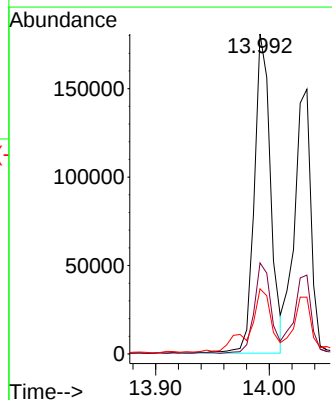
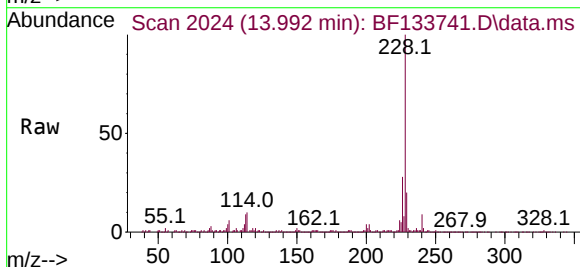
Manual Integrations
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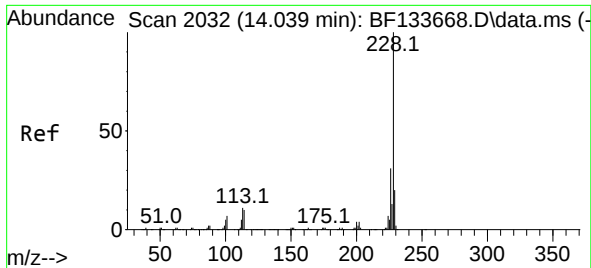
Reviewed By :Yogesh Patel 06/14/2023
 Supervised By :mohammad ahmed 06/16/2023



#81
 Benzo(a)anthracene
 Concen: 16.025 ng
 RT: 13.992 min Scan# 2024
 Delta R.T. -0.012 min
 Lab File: BF133741.D
 Acq: 13 Jun 2023 20:39

Tgt Ion:228 Resp: 180350
 Ion Ratio Lower Upper
 228 100
 226 28.4 21.7 32.5
 229 20.4 15.4 23.2





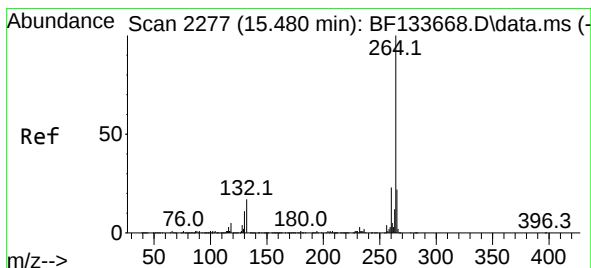
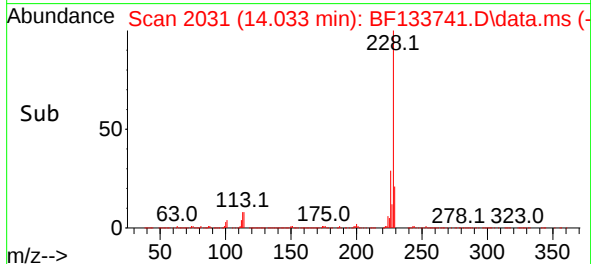
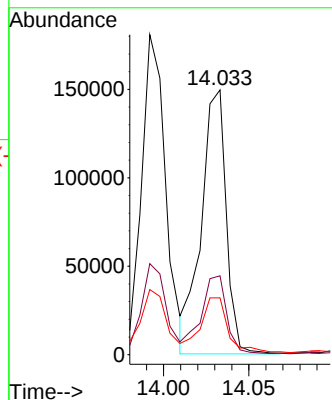
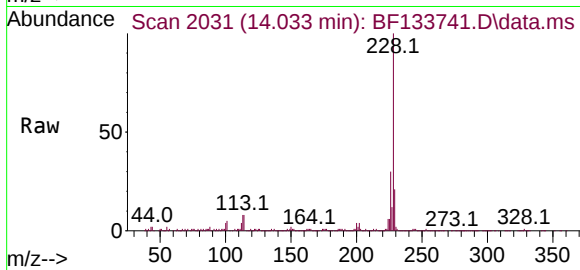
#83
Chrysene
Concen: 14.288 ng
RT: 14.033 min Scan# 2032
Delta R.T. -0.012 min
Lab File: BF133741.D
Acq: 13 Jun 2023 20:39

Instrument :
BNA_F
ClientSampleId :
SB-07-0-2.0DL

Tgt Ion:228 Resp: 152090
Ion Ratio Lower Upper
228 100
226 29.8 25.0 37.6
229 21.4 15.8 23.8

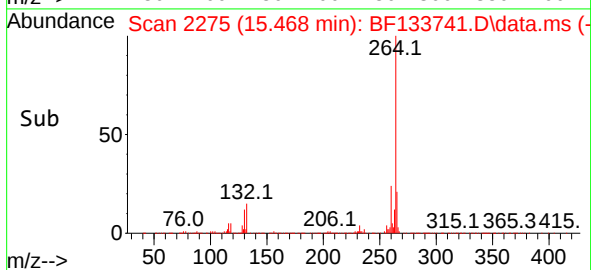
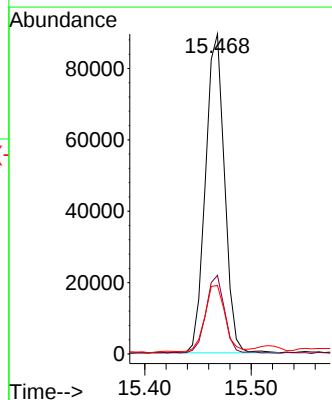
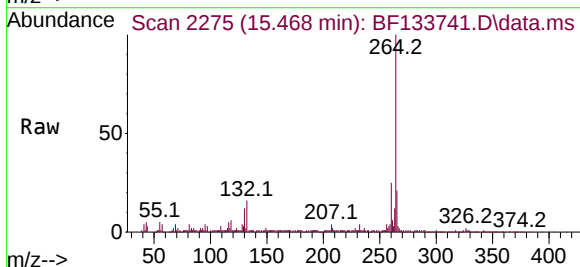
Manual Integrations
APPROVED

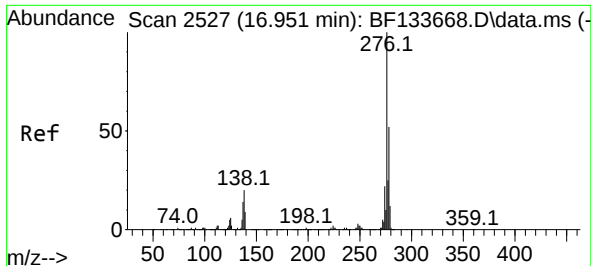
Reviewed By :Yogesh Patel 06/14/2023
Supervised By :mohammad ahmed 06/16/2023



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.468 min Scan# 2275
Delta R.T. -0.012 min
Lab File: BF133741.D
Acq: 13 Jun 2023 20:39

Tgt Ion:264 Resp: 110848
Ion Ratio Lower Upper
264 100
260 24.6 18.2 27.2
265 21.4 17.8 26.6





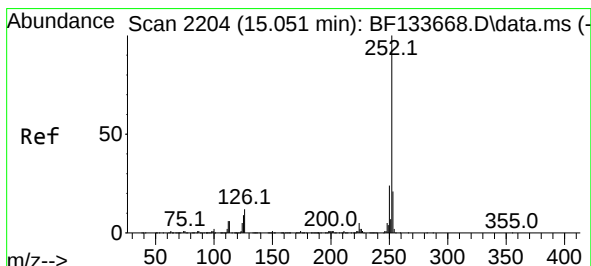
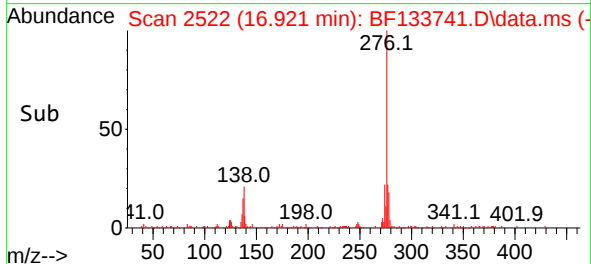
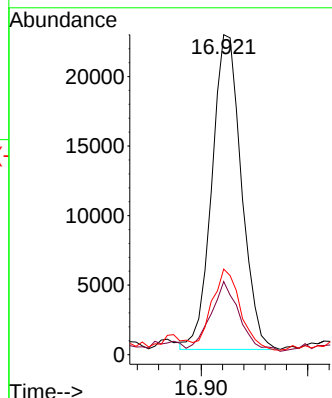
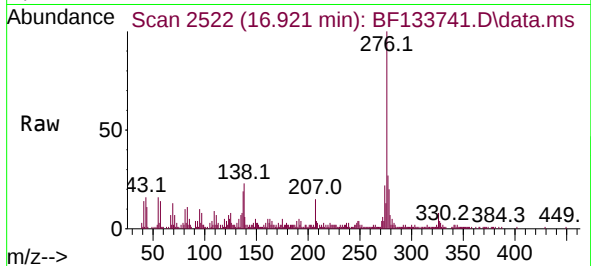
#87
Indeno(1,2,3-cd)pyrene
Concen: 5.708 ng
RT: 16.921 min Scan# 21
Delta R.T. -0.035 min
Lab File: BF133741.D
Acq: 13 Jun 2023 20:39

Instrument :
BNA_F
ClientSampleId :
SB-07-0-2.0DL

Tgt Ion:276 Resp: 43520
Ion Ratio Lower Upper
276 100
138 21.6 17.9 26.9
277 24.8 20.3 30.5

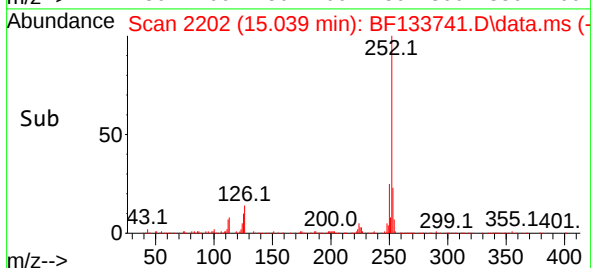
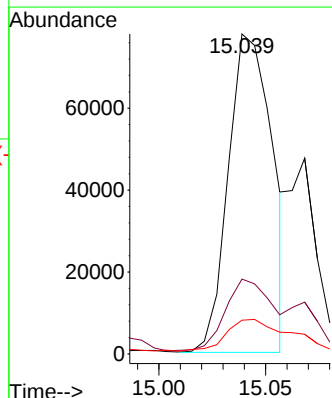
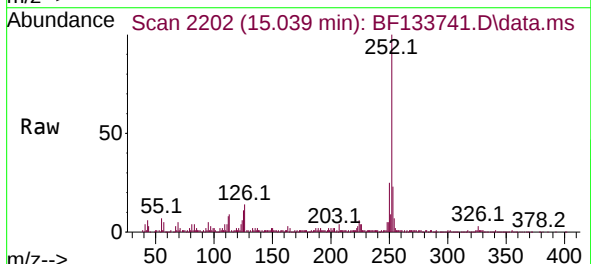
Manual Integrations
APPROVED

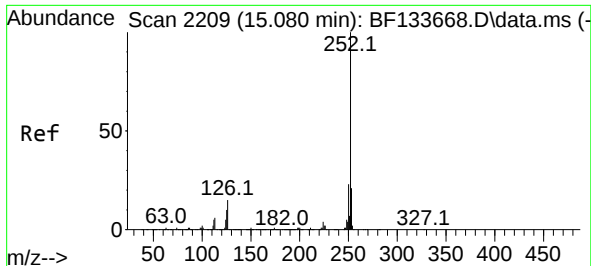
Reviewed By :Yogesh Patel 06/14/2023
Supervised By :mohammad ahmed 06/16/2023



#88
Benzo(b)fluoranthene
Concen: 16.592 ng m
RT: 15.039 min Scan# 2202
Delta R.T. -0.018 min
Lab File: BF133741.D
Acq: 13 Jun 2023 20:39

Tgt Ion:252 Resp: 111725
Ion Ratio Lower Upper
252 100
253 23.4 17.0 25.6
125 10.6 7.3 10.9





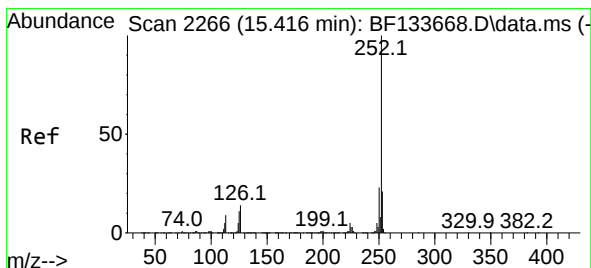
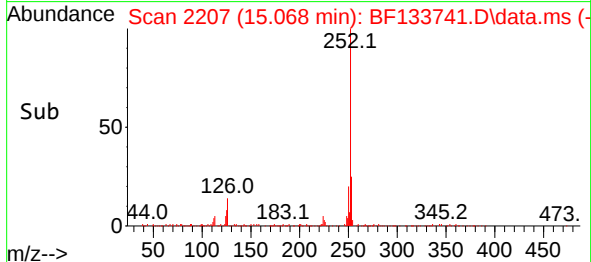
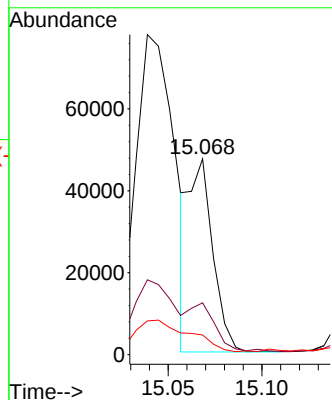
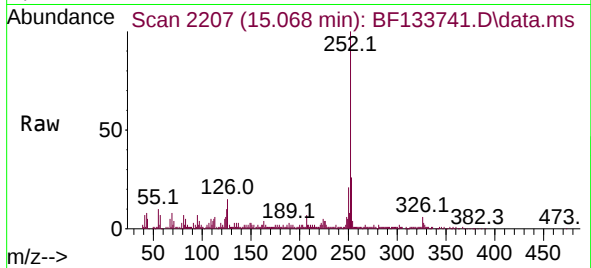
#89
Benzo(k)fluoranthene
Concen: 6.336 ng m
RT: 15.068 min Scan# 21
Delta R.T. -0.018 min
Lab File: BF133741.D
Acq: 13 Jun 2023 20:39

Instrument :
BNA_F
ClientSampleId :
SB-07-0-2.0DL

Tgt Ion:252 Resp: 4156
Ion Ratio Lower Upper
252 100
253 26.5 17.0 25.4
125 10.1 7.8 11.6

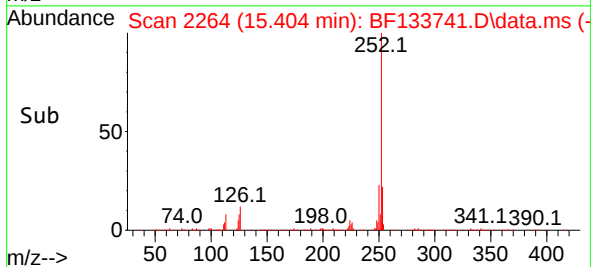
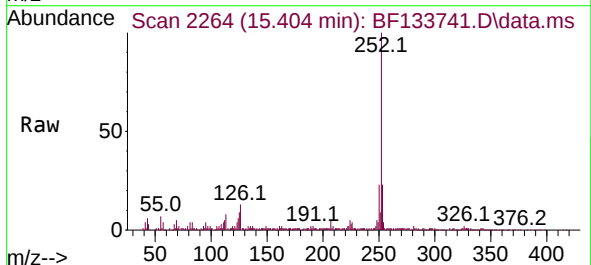
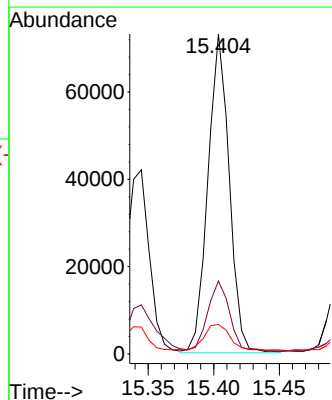
Manual Integrations
APPROVED

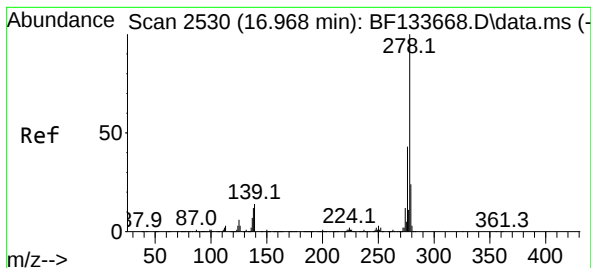
Reviewed By :Yogesh Patel 06/14/2023
Supervised By :mohammad ahmed 06/16/2023



#90
Benzo(a)pyrene
Concen: 13.222 ng
RT: 15.404 min Scan# 2264
Delta R.T. -0.018 min
Lab File: BF133741.D
Acq: 13 Jun 2023 20:39

Tgt Ion:252 Resp: 82625
Ion Ratio Lower Upper
252 100
253 22.8 17.1 25.7
125 9.2 8.6 13.0





#91

Dibenzo(a,h)anthracene

Concen: 2.103 ng

RT: 16.933 min Scan# 2524

Delta R.T. -0.041 min

Lab File: BF133741.D

Acq: 13 Jun 2023 20:39

Instrument :

BNA_F

ClientSampleId :

SB-07-0-2.0DL

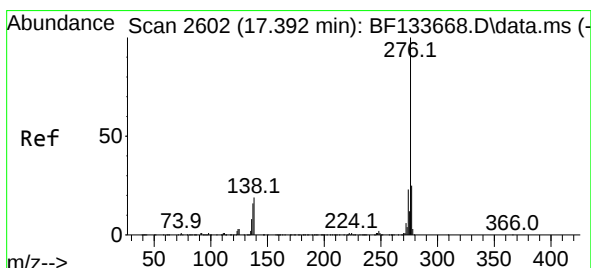
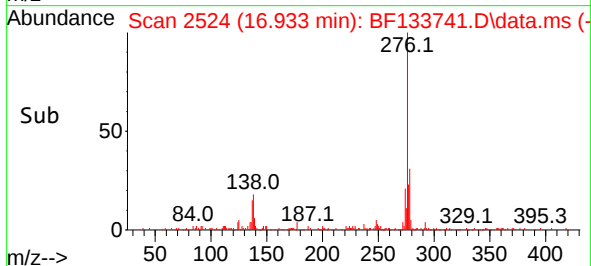
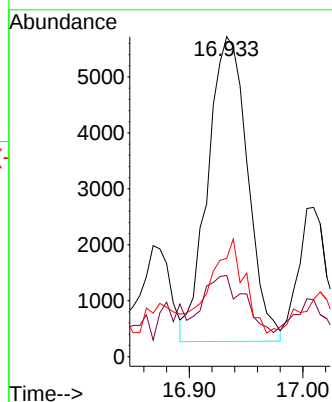
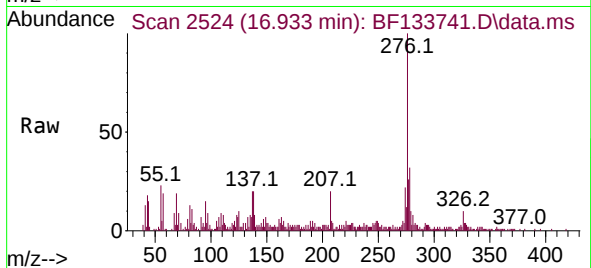
Tgt Ion:	278	Resp:	13270
Ion Ratio	Lower	Upper	
278	100		
139	25.3	11.4	17.2
279	30.8	19.0	28.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 06/14/2023

Supervised By :mohammad ahmed 06/16/2023



#92

Benzo(g,h,i)perylene

Concen: 6.470 ng

RT: 17.362 min Scan# 2597

Delta R.T. -0.041 min

Lab File: BF133741.D

Acq: 13 Jun 2023 20:39

Tgt Ion:	276	Resp:	40501
Ion Ratio	Lower	Upper	
276	100		
277	25.4	19.8	29.8
138	22.7	15.0	22.4

