

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF060823\
 Data File : BF133642.D
 Acq On : 08 Jun 2023 15:02
 Operator : CG\JU
 Sample : 03049-03
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 HR-03-060523

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 06/09/2023
 Supervised By :mohammad ahmed 06/13/2023

Quant Time: Jun 08 15:28:15 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052523.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jun 08 11:43:32 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.834	152	115811	20.000	ng	0.00
21) Naphthalene-d8	8.116	136	404511	20.000	ng	0.00
39) Acenaphthene-d10	9.875	164	168136	20.000	ng	0.00
64) Phenanthrene-d10	11.369	188	284686	20.000	ng	0.00
76) Chrysene-d12	14.021	240	147164	20.000	ng	0.00
86) Perylene-d12	15.498	264	127287	20.000	ng	# 0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.445	112	444363	64.018	ng	0.00
7) Phenol-d6	6.463	99	528820	61.889	ng	0.00
23) Nitrobenzene-d5	7.398	82	329094	54.320	ng	0.00
42) 2,4,6-Tribromophenol	10.663	330	110429	65.888	ng	0.00
45) 2-Fluorobiphenyl	9.192	172	589150	54.082	ng	0.00
79) Terphenyl-d14	12.957	244	508178	61.396	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.139	128	48941	2.496	ng	99
37) 2-Methylnaphthalene	8.833	142	31514	2.354	ng	98
38) 1-Methylnaphthalene	8.928	142	30178	2.418	ng	99
49) Acenaphthylene	9.733	152	62654	3.708	ng	96
52) Acenaphthene	9.910	154	123949	12.111	ng	98
55) Dibenzofuran	10.080	168	128786	8.458	ng	99
58) Fluorene	10.422	166	171276	15.354	ng	99
71) Phenanthrene	11.398	178	1286699	89.236	ng	99
72) Anthracene	11.445	178	475515	32.043	ng	99
73) Carbazole	11.592	167	80403	5.729	ng	94
75) Fluoranthene	12.598	202	2256121	141.654	ng	97
78) Pyrene	12.827	202	2004300	160.049	ng	99
81) Benzo(a)anthracene	14.010	228	852719	86.980	ng	97
83) Chrysene	14.051	228	701054	70.836	ng	97
87) Indeno(1,2,3-cd)pyrene	16.980	276	411370m	50.736	ng	
88) Benzo(b)fluoranthene	15.068	252	827159m	99.795	ng	
89) Benzo(k)fluoranthene	15.092	252	264470m	32.723	ng	
90) Benzo(a)pyrene	15.439	252	607772	80.584	ng	97
91) Dibenzo(a,h)anthracene	16.986	278	87939	13.377	ng	# 89
92) Benzo(g,h,i)perylene	17.427	276	389596	58.776	ng	97

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

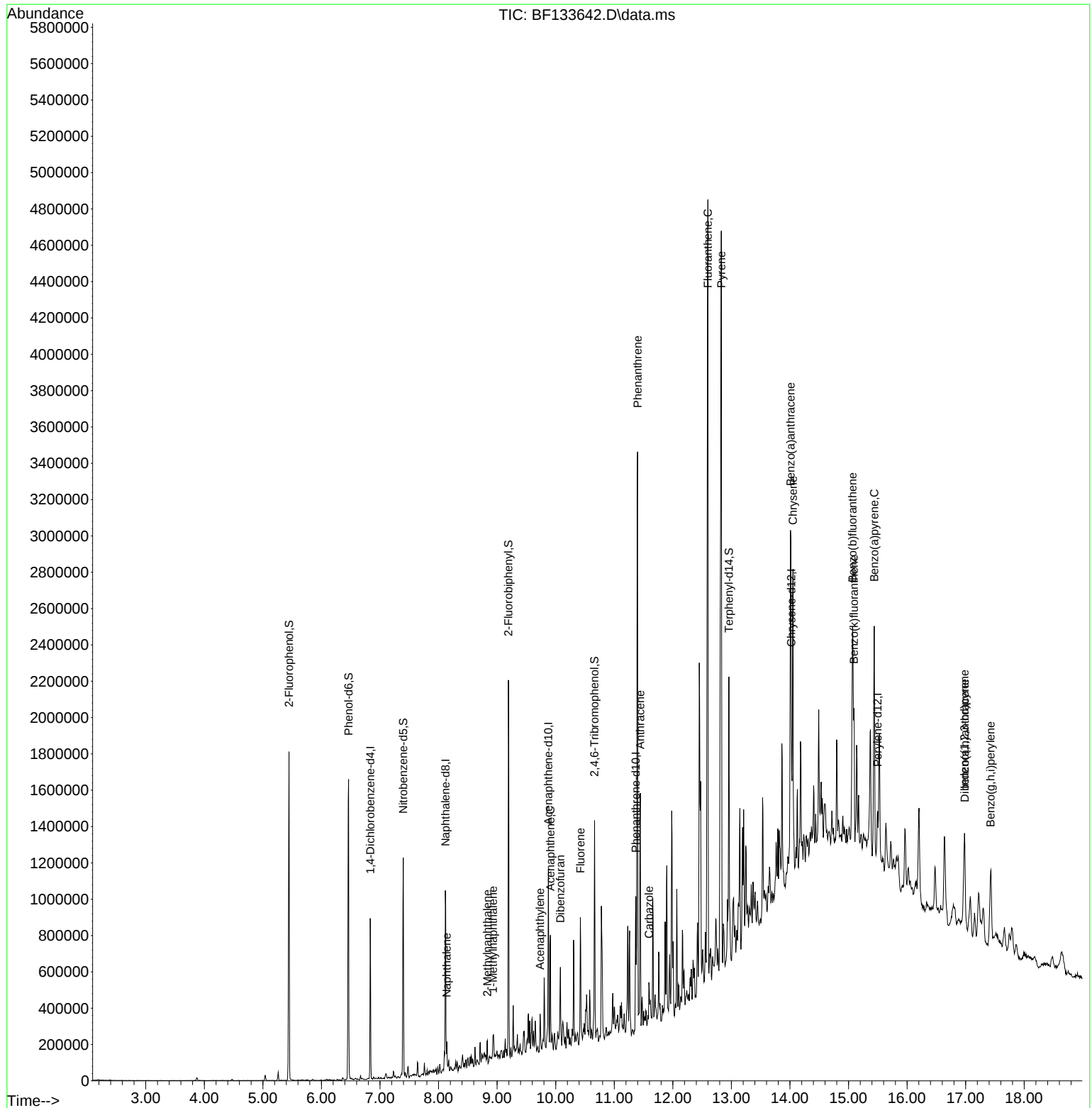
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF060823\
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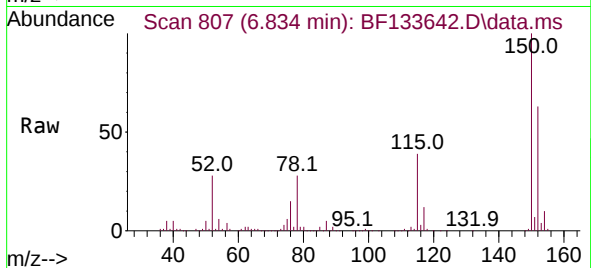
Reviewed By :Yogesh Patel 06/09/2023
Supervised By :mohammad ahmed 06/13/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.834 min Scan# 808
Delta R.T. -0.005 min
Lab File: BF133642.D
Acq: 08 Jun 2023 15:02

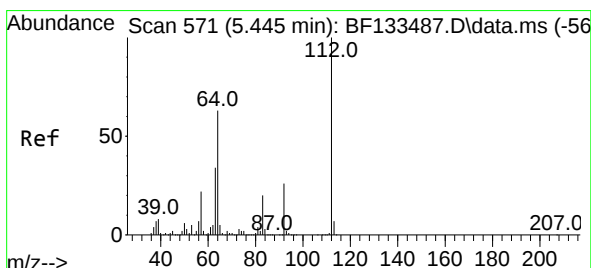
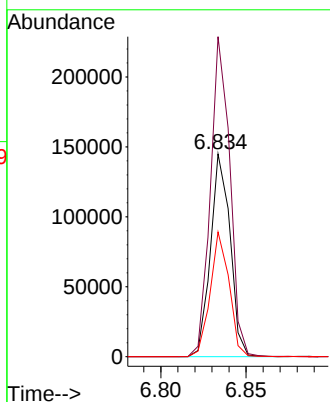
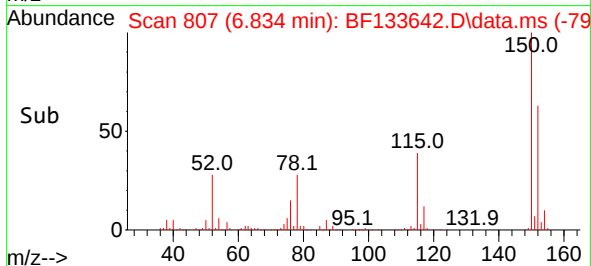
Instrument :
BNA_F
ClientSampleId :
HR-03-060523



Tgt Ion:152 Resp: 11581
Ion Ratio Lower Upper
152 100
150 157.9 124.9 187.3
115 61.5 48.1 72.1

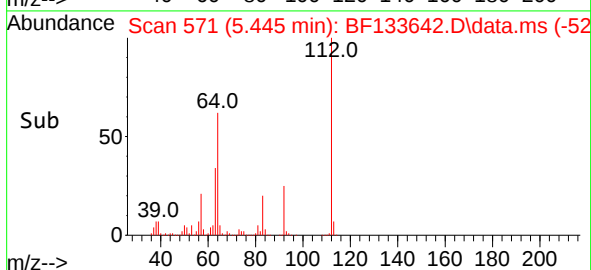
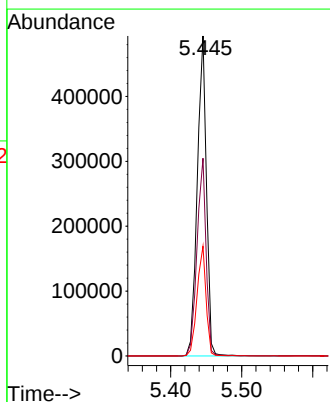
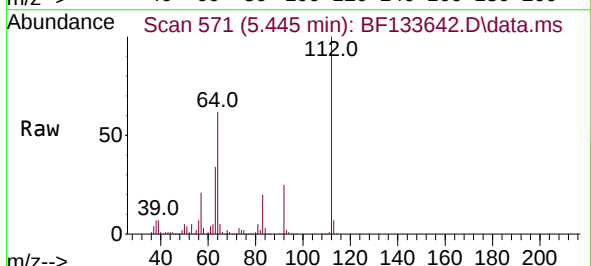
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Reviewed By :Yogesh Patel 06/09/2023
Supervised By :mohammad ahmed 06/13/2023



#5
2-Fluorophenol
Concen: 64.018 ng
RT: 5.445 min Scan# 571
Delta R.T. -0.000 min
Lab File: BF133642.D
Acq: 08 Jun 2023 15:02

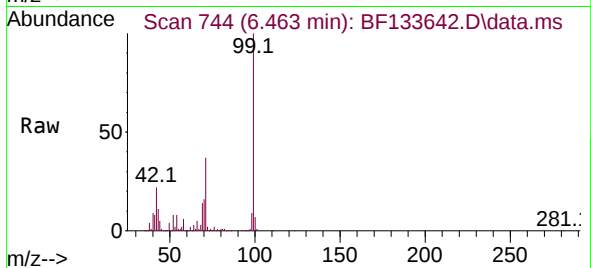
Tgt Ion:112 Resp: 444363
Ion Ratio Lower Upper
112 100
64 61.8 50.1 75.1
63 34.3 27.5 41.3





#7
Phenol-d6
Concen: 61.889 ng
RT: 6.463 min Scan# 744
Delta R.T. -0.006 min
Lab File: BF133642.D
Acq: 08 Jun 2023 15:02

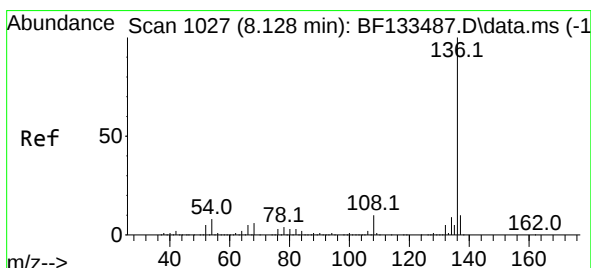
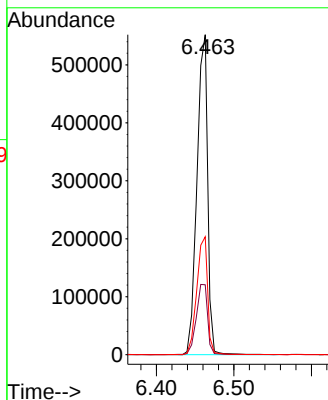
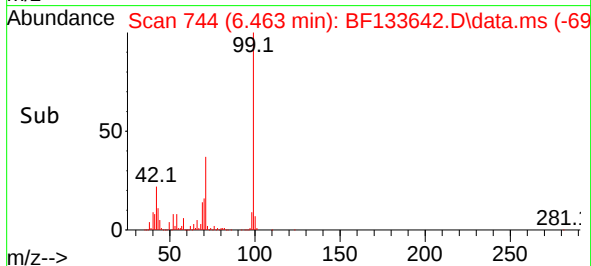
Instrument :
BNA_F
ClientSampleId :
HR-03-060523



Tgt Ion: 99 Resp: 528820
Ion Ratio Lower Upper
99 100
42 21.9 19.7 29.5
71 36.9 29.8 44.8

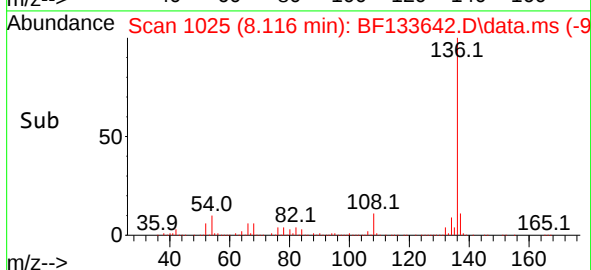
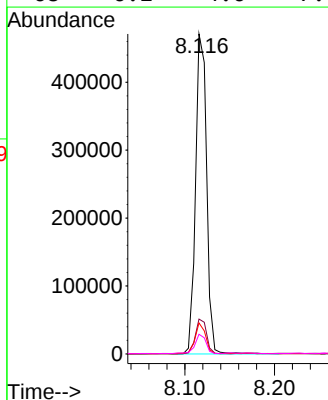
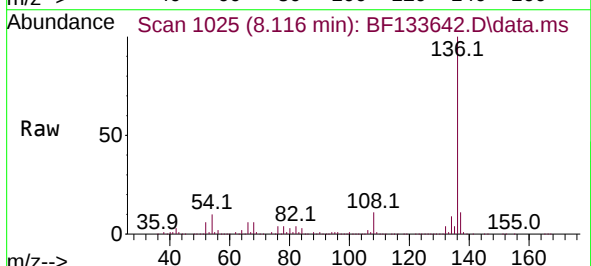
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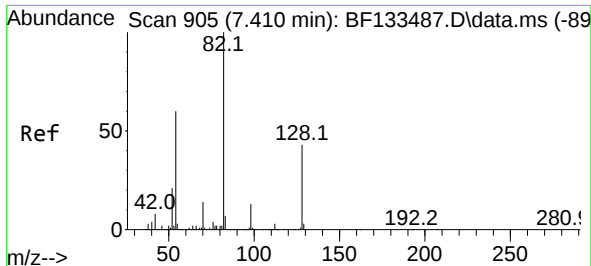
Reviewed By :Yogesh Patel 06/09/2023
Supervised By :mohammad ahmed 06/13/2023



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.116 min Scan# 1025
Delta R.T. -0.006 min
Lab File: BF133642.D
Acq: 08 Jun 2023 15:02

Tgt Ion:136 Resp: 404511
Ion Ratio Lower Upper
136 100
137 10.9 8.2 12.4
54 9.7 6.6 10.0
68 6.2 4.6 7.0





#23

Nitrobenzene-d5

Concen: 54.320 ng

RT: 7.398 min Scan# 905

Delta R.T. -0.006 min

Lab File: BF133642.D

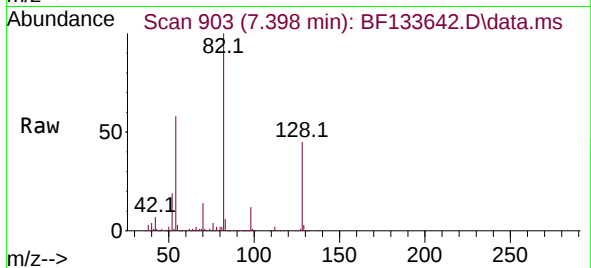
Acq: 08 Jun 2023 15:02

Instrument :

BNA_F

ClientSampleId :

HR-03-060523



Tgt Ion: 82 Resp: 329094

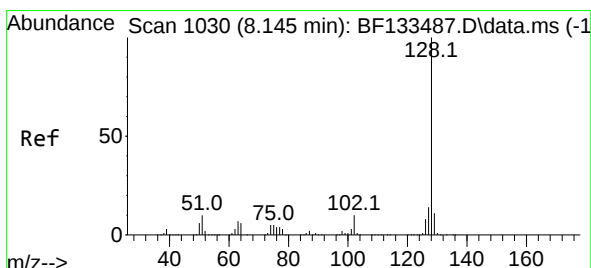
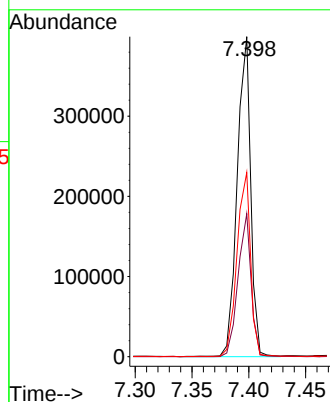
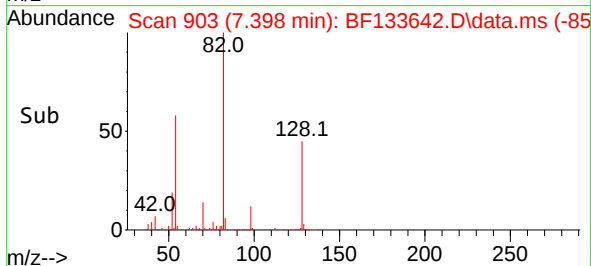
Ion	Ratio	Lower	Upper
82	100		
128	44.7	34.2	51.4
54	57.6	48.2	72.4

Manual Integrations

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Reviewed By :Yogesh Patel 06/09/2023

Supervised By :mohammad ahmed 06/13/2023



#31

Naphthalene

Concen: 2.496 ng

RT: 8.139 min Scan# 1029

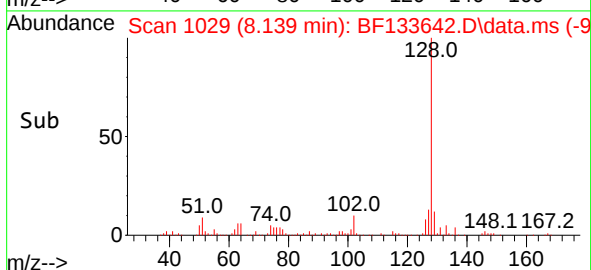
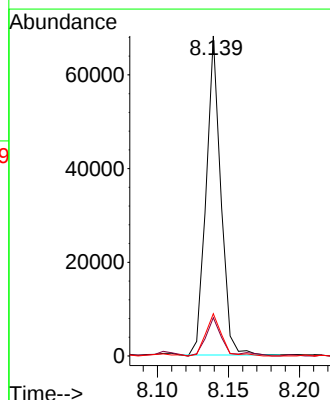
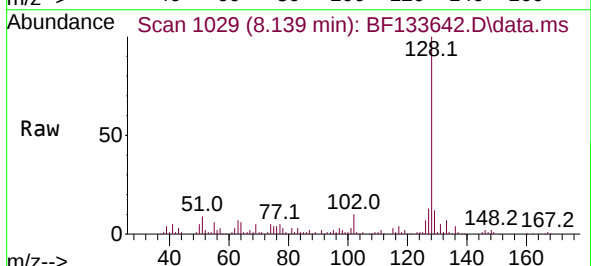
Delta R.T. -0.006 min

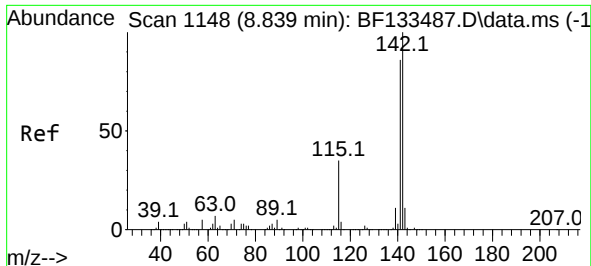
Lab File: BF133642.D

Acq: 08 Jun 2023 15:02

Tgt Ion:128 Resp: 48941

Ion	Ratio	Lower	Upper
128	100		
129	12.0	9.2	13.8
127	13.2	10.9	16.3





#37
2-Methylnaphthalene
Concen: 2.354 ng
RT: 8.833 min Scan# 1148
Delta R.T. -0.000 min
Lab File: BF133642.D
Acq: 08 Jun 2023 15:02

Instrument :

BNA_F

ClientSampleId :

HR-03-060523

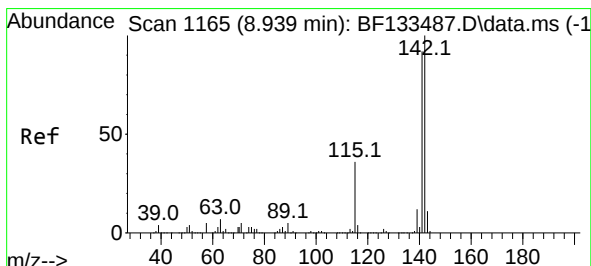
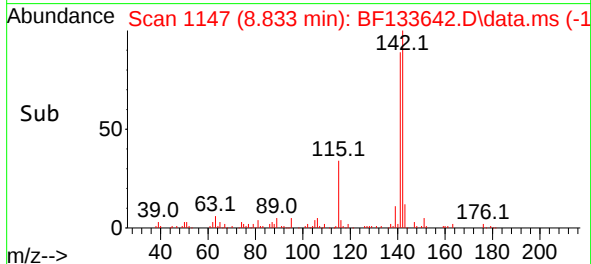
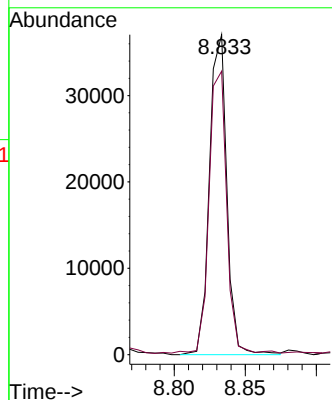
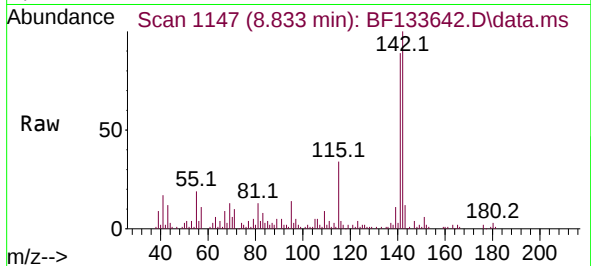
Tgt Ion:142 Resp: 31514
Ion Ratio Lower Upper
142 100
141 88.6 69.2 103.8

Manual Integrations

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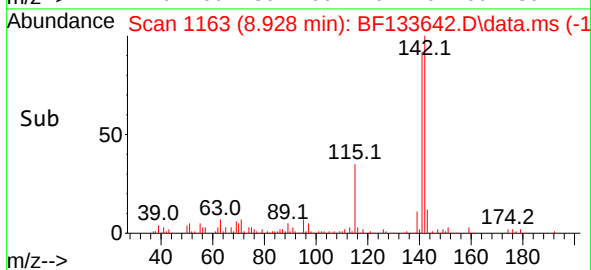
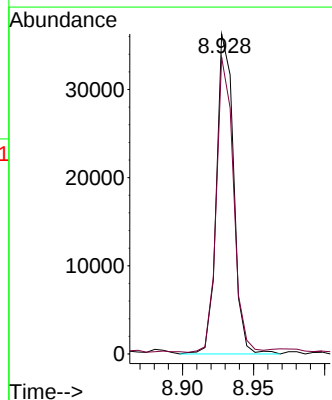
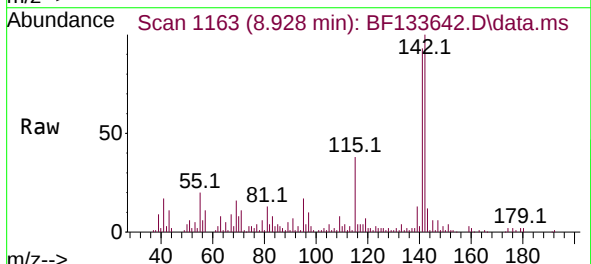
Reviewed By :Yogesh Patel 06/09/2023

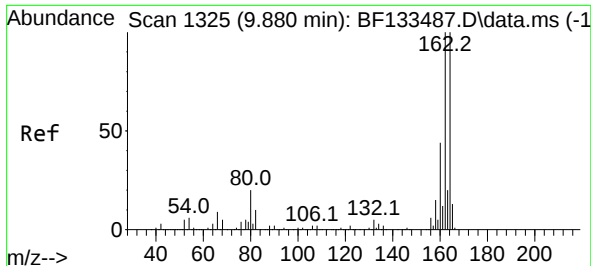
Supervised By :mohammad ahmed 06/13/2023



#38
1-Methylnaphthalene
Concen: 2.418 ng
RT: 8.928 min Scan# 1163
Delta R.T. -0.006 min
Lab File: BF133642.D
Acq: 08 Jun 2023 15:02

Tgt Ion:142 Resp: 30178
Ion Ratio Lower Upper
142 100
141 92.7 73.6 110.4





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.875 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF133642.D
Acq: 08 Jun 2023 15:02

Instrument :

BNA_F

ClientSampleId :

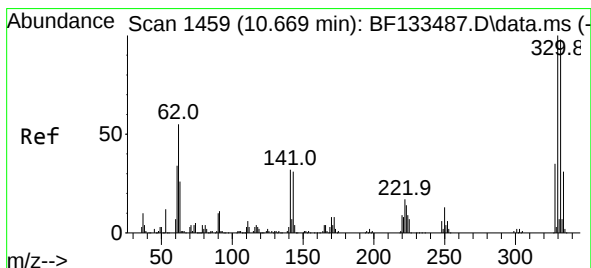
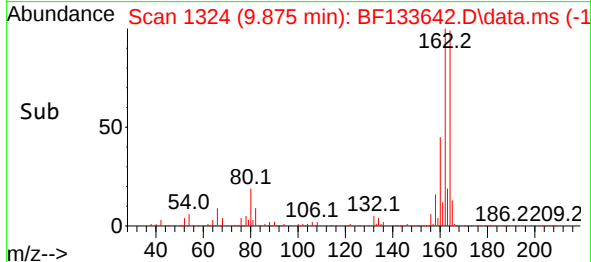
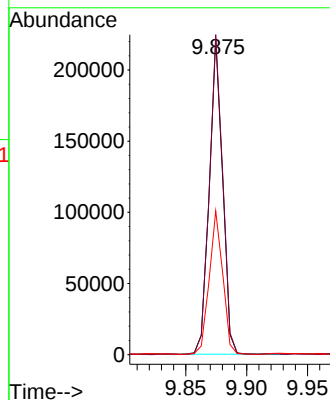
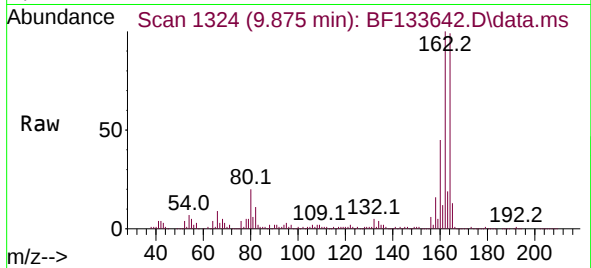
HR-03-060523

Tgt Ion:164 Resp: 168130
Ion Ratio Lower Upper
164 100
162 101.2 79.7 119.5
160 45.5 35.4 53.0

Manual Integrations

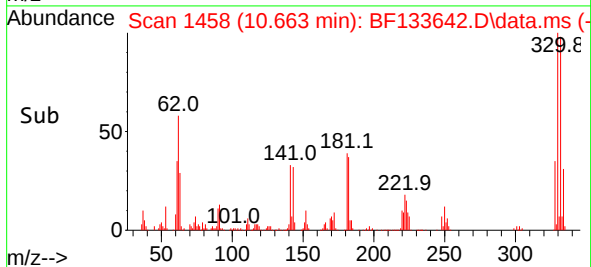
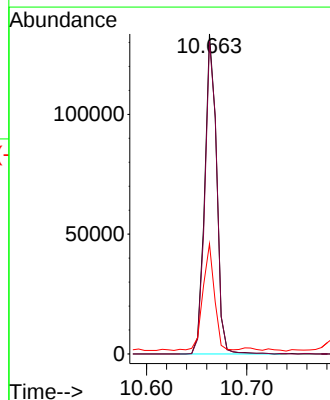
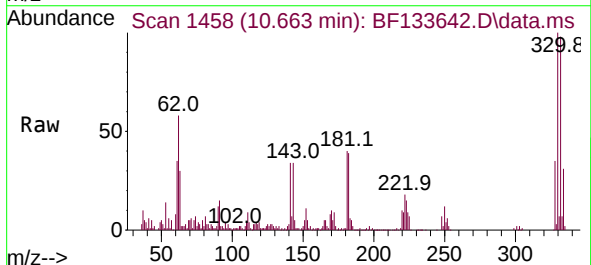
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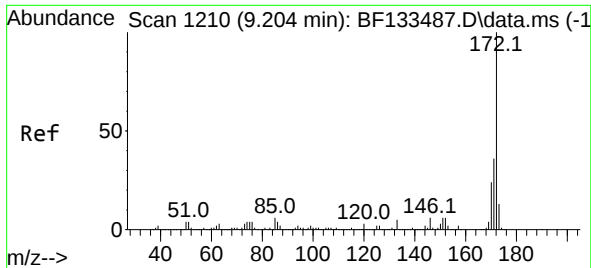
Reviewed By :Yogesh Patel 06/09/2023
Supervised By :mohammad ahmed 06/13/2023



#42
2,4,6-Tribromophenol
Concen: 65.888 ng
RT: 10.663 min Scan# 1458
Delta R.T. -0.006 min
Lab File: BF133642.D
Acq: 08 Jun 2023 15:02

Tgt Ion:330 Resp: 110429
Ion Ratio Lower Upper
330 100
332 98.1 77.8 116.6
141 32.3 26.6 40.0





#45
2-Fluorobiphenyl
Concen: 54.082 ng
RT: 9.192 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF133642.D
Acq: 08 Jun 2023 15:02

Instrument :

BNA_F

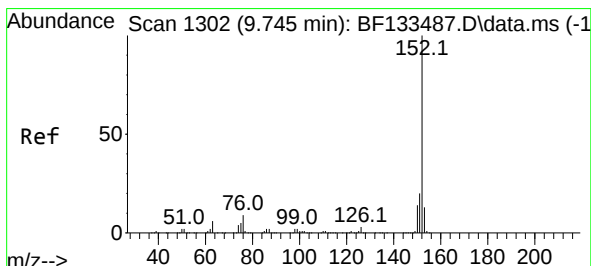
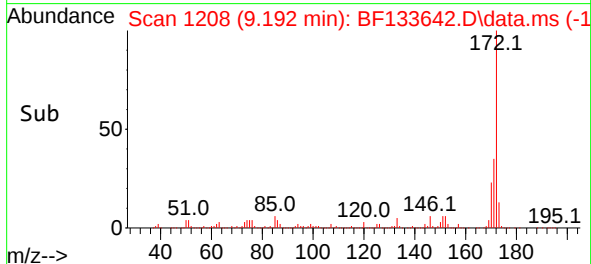
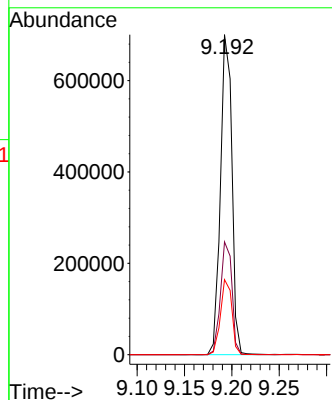
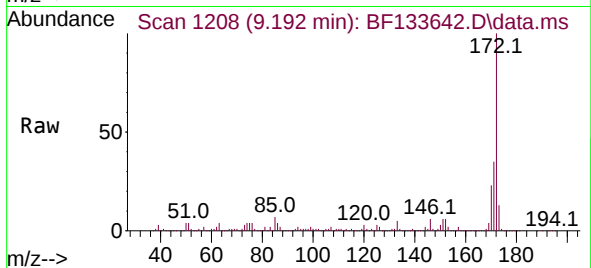
ClientSampleId :

HR-03-060523

Tgt Ion:172 Resp: 589150
Ion Ratio Lower Upper
172 100
171 35.3 28.4 42.6
170 23.5 19.3 28.9

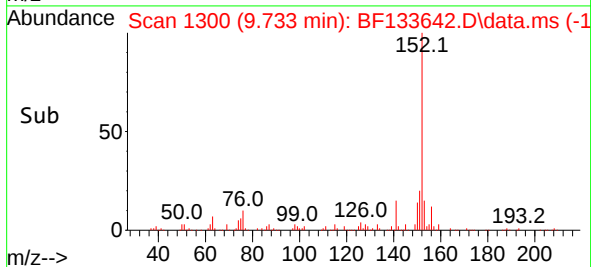
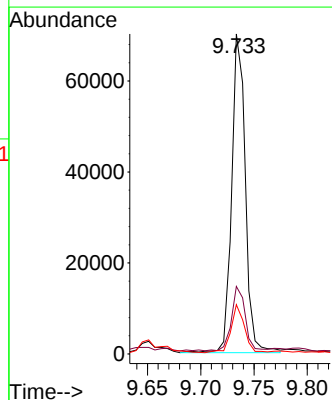
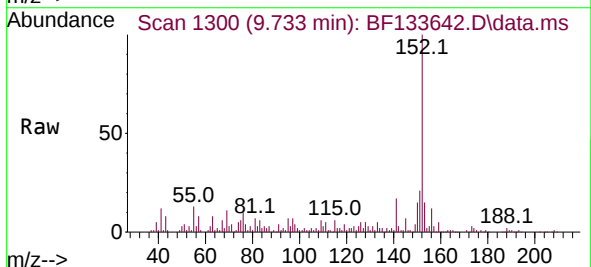
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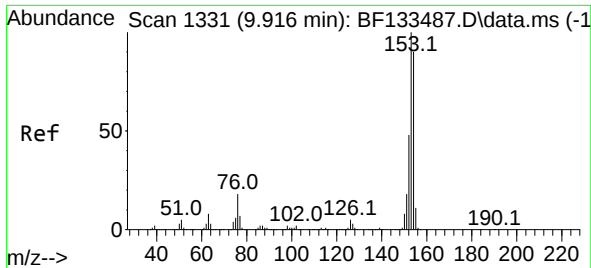
Reviewed By :Yogesh Patel 06/09/2023
Supervised By :mohammad ahmed 06/13/2023



#49
Acenaphthylene
Concen: 3.708 ng
RT: 9.733 min Scan# 1300
Delta R.T. -0.006 min
Lab File: BF133642.D
Acq: 08 Jun 2023 15:02

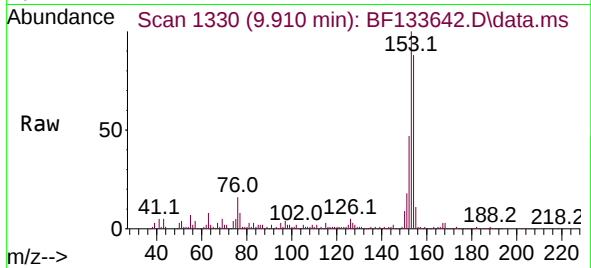
Tgt Ion:152 Resp: 62654
Ion Ratio Lower Upper
152 100
151 21.1 16.0 24.0
153 15.4 10.4 15.6





#52
Acenaphthene
Concen: 12.111 ng
RT: 9.910 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF133642.D
Acq: 08 Jun 2023 15:02

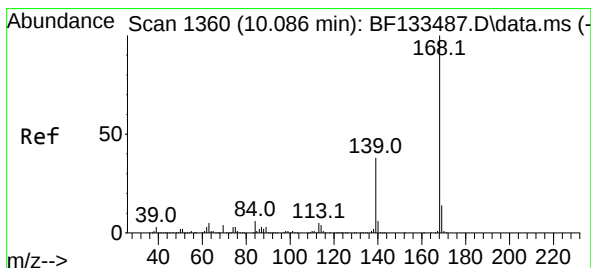
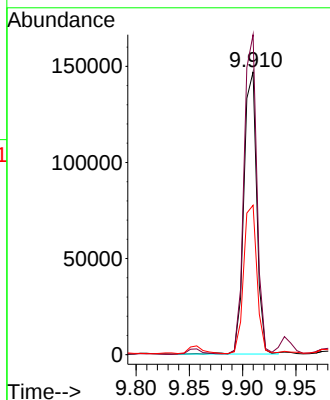
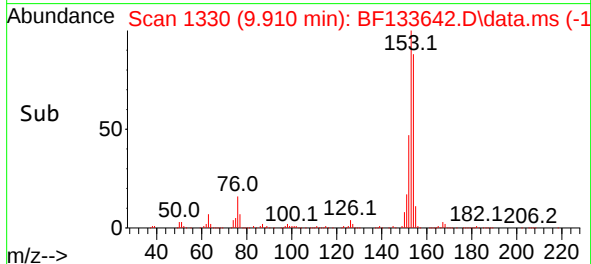
Instrument :
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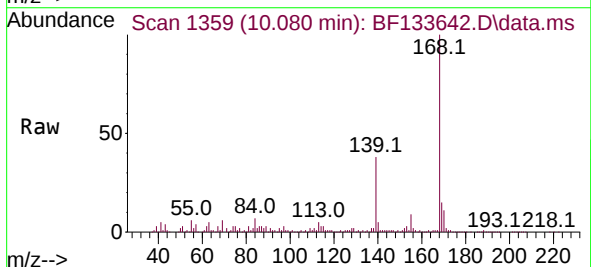
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Ion Ratio Lower Upper
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Manual Integrations
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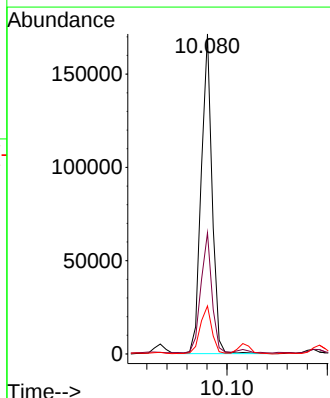
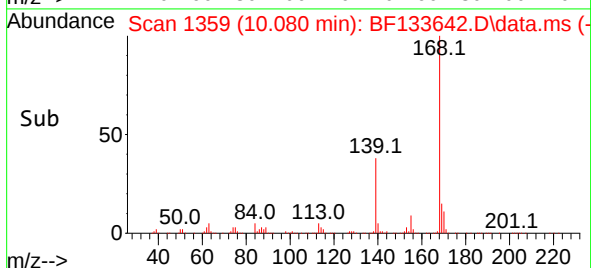
Reviewed By :Yogesh Patel 06/09/2023
Supervised By :mohammad ahmed 06/13/2023

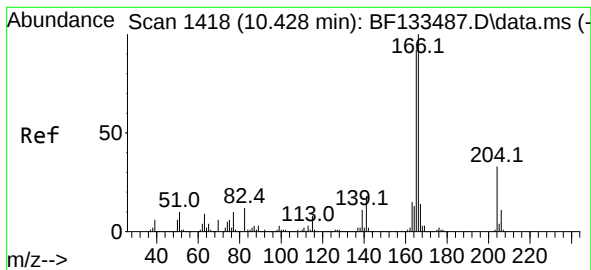


#55
Dibenzofuran
Concen: 8.458 ng
RT: 10.080 min Scan# 1359
Delta R.T. -0.006 min
Lab File: BF133642.D
Acq: 08 Jun 2023 15:02



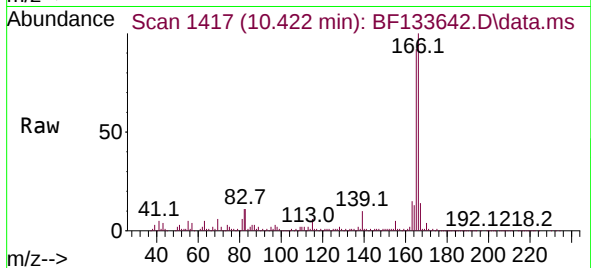
Tgt Ion:168 Resp: 128786
Ion Ratio Lower Upper
168 100
139 37.8 30.6 46.0
169 15.0 10.9 16.3





#58
Fluorene
Concen: 15.354 ng
RT: 10.422 min Scan# 1418
Delta R.T. -0.006 min
Lab File: BF133642.D
Acq: 08 Jun 2023 15:02

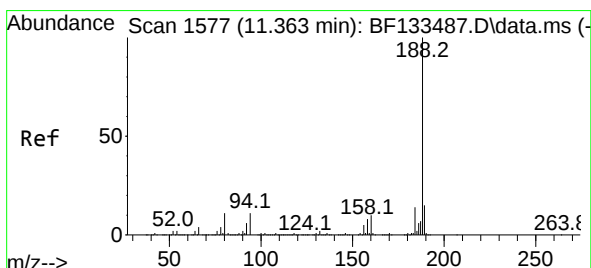
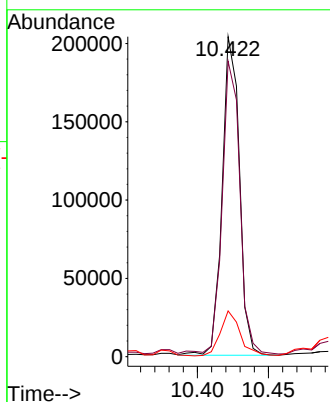
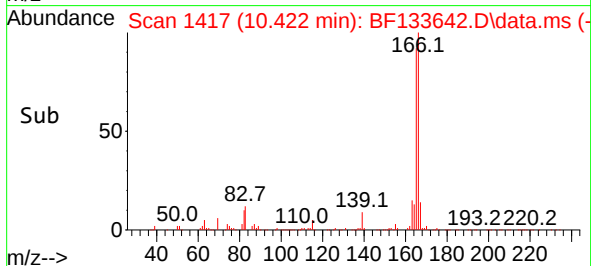
Instrument :
BNA_F
ClientSampleId :
HR-03-060523



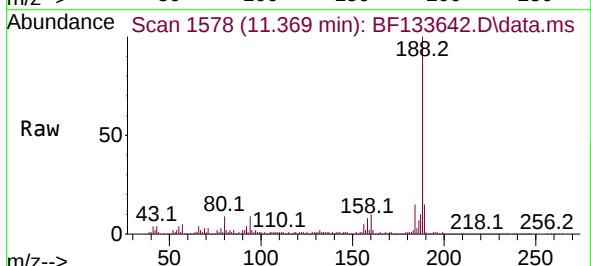
Tgt Ion:166 Resp: 171270
Ion Ratio Lower Upper
166 100
165 92.3 73.4 110.0
167 14.3 10.9 16.3

Manual Integrations
APPROVED

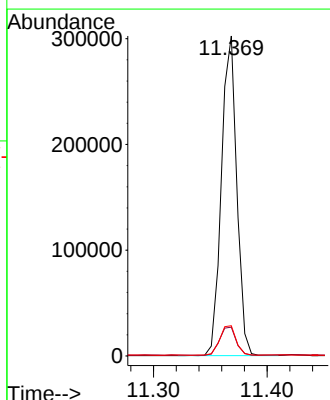
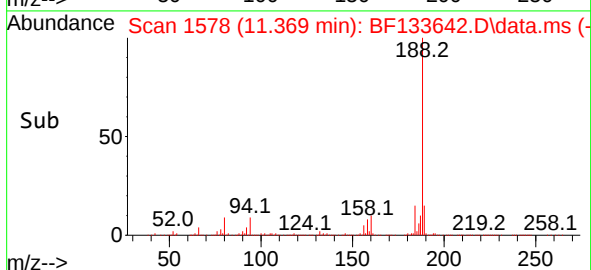
Reviewed By :Yogesh Patel 06/09/2023
Supervised By :mohammad ahmed 06/13/2023

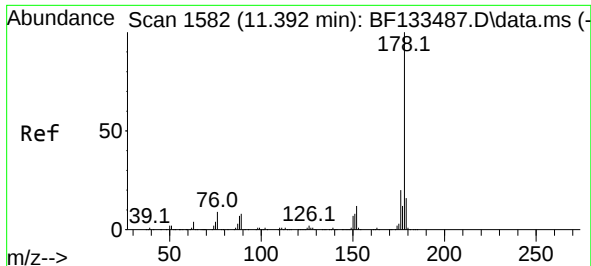


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.369 min Scan# 1578
Delta R.T. -0.000 min
Lab File: BF133642.D
Acq: 08 Jun 2023 15:02



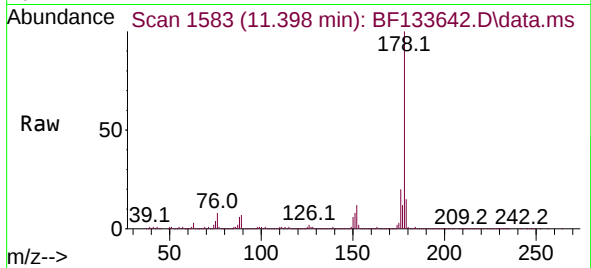
Tgt Ion:188 Resp: 284686
Ion Ratio Lower Upper
188 100
94 9.0 8.6 12.8
80 9.4 9.2 13.8





#71
Phenanthrene
Concen: 89.236 ng
RT: 11.398 min Scan# 1582
Delta R.T. 0.006 min
Lab File: BF133642.D
Acq: 08 Jun 2023 15:02

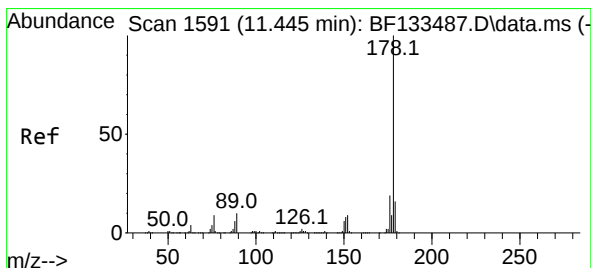
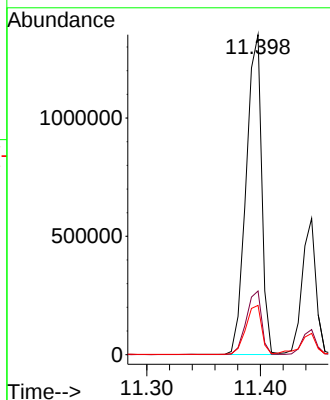
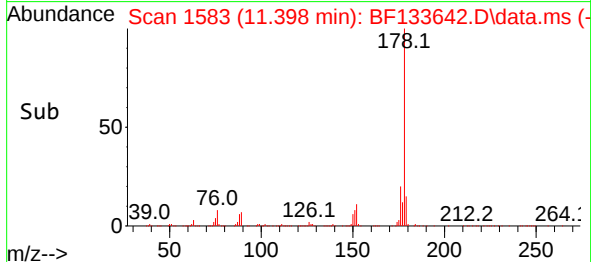
Instrument :
BNA_F
ClientSampleId :
HR-03-060523



Tgt Ion:178 Resp: 1286699
Ion Ratio Lower Upper
178 100
176 19.9 15.6 23.4
179 15.4 12.4 18.6

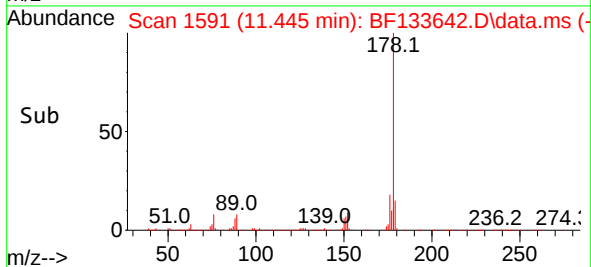
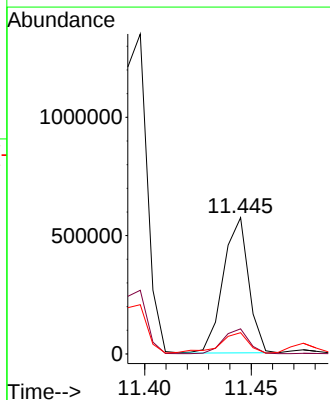
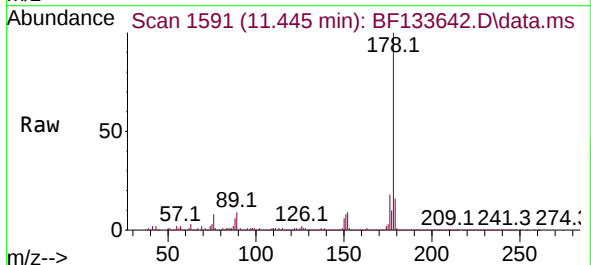
Manual Integrations
APPROVED

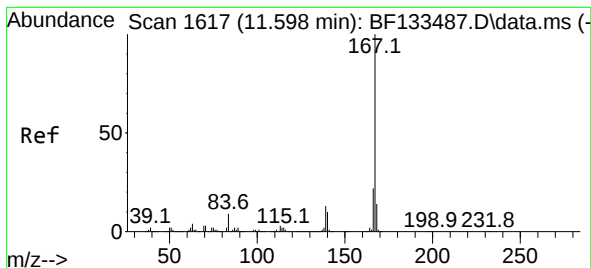
Reviewed By :Yogesh Patel 06/09/2023
Supervised By :mohammad ahmed 06/13/2023



#72
Anthracene
Concen: 32.043 ng
RT: 11.445 min Scan# 1591
Delta R.T. -0.000 min
Lab File: BF133642.D
Acq: 08 Jun 2023 15:02

Tgt Ion:178 Resp: 475515
Ion Ratio Lower Upper
178 100
176 18.5 15.3 22.9
179 15.6 12.6 18.8





#73

Carbazole

Concen: 5.729 ng

RT: 11.592 min Scan# 1

Delta R.T. -0.006 min

Lab File: BF133642.D

Acq: 08 Jun 2023 15:02

Instrument :

BNA_F

ClientSampleId :

HR-03-060523

Tgt Ion:167 Resp: 8040

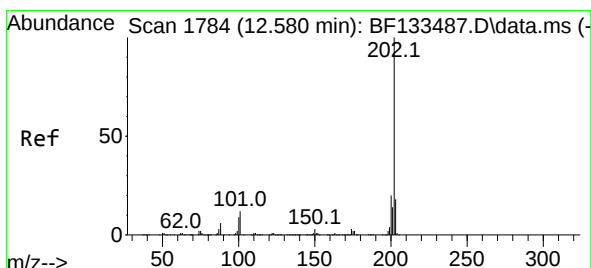
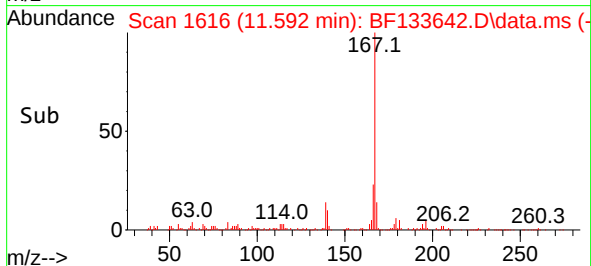
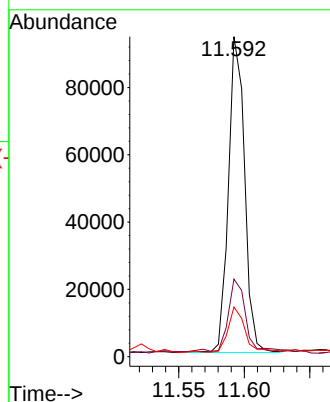
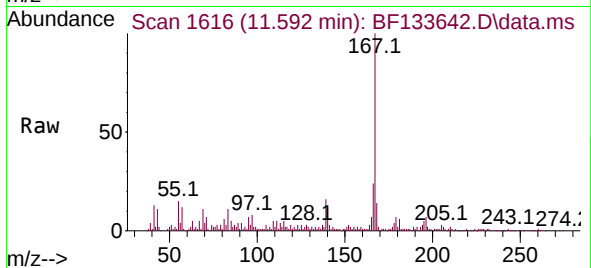
Ion	Ratio	Lower	Upper
167	100		
166	24.3	17.3	25.9
139	15.5	10.7	16.1

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 06/09/2023

Supervised By :mohammad ahmed 06/13/2023



#75

Fluoranthene

Concen: 141.654 ng

RT: 12.598 min Scan# 1787

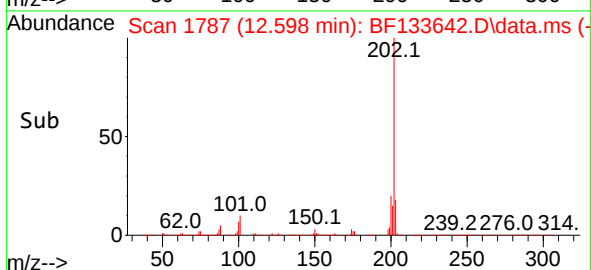
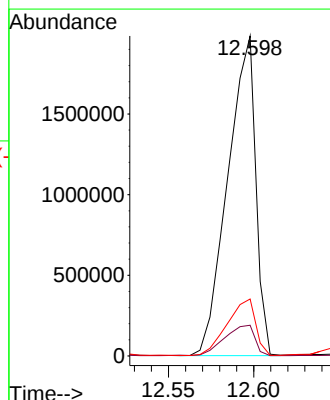
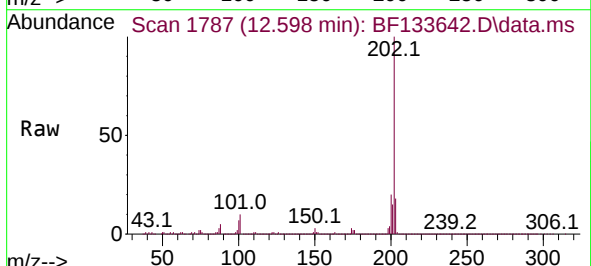
Delta R.T. 0.012 min

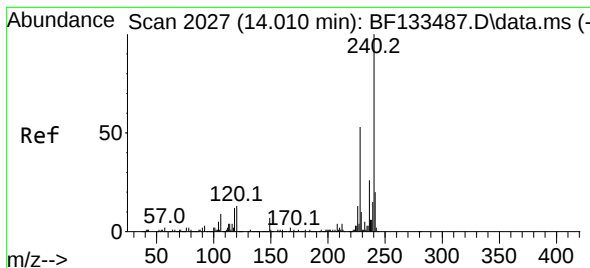
Lab File: BF133642.D

Acq: 08 Jun 2023 15:02

Tgt Ion:202 Resp: 2256121

Ion	Ratio	Lower	Upper
202	100		
101	9.6	0.0	32.2
203	17.8	0.0	37.8





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.021 min Scan# 2027

Delta R.T. 0.006 min

Lab File: BF133642.D

Acq: 08 Jun 2023 15:02

Instrument :

BNA_F

ClientSampleId :

HR-03-060523

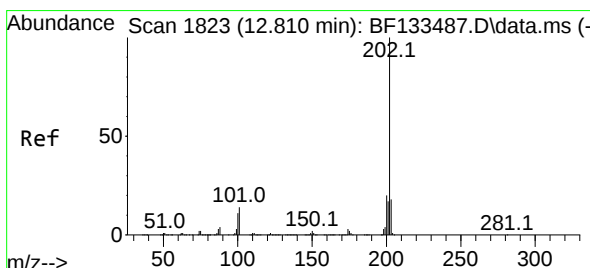
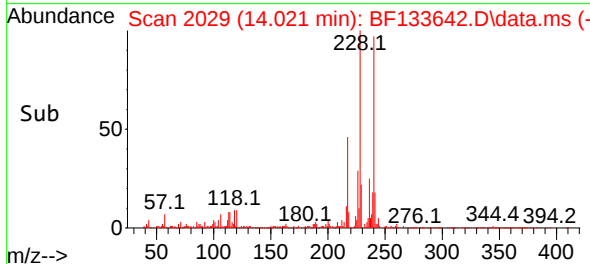
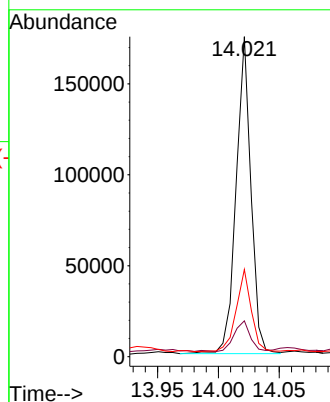
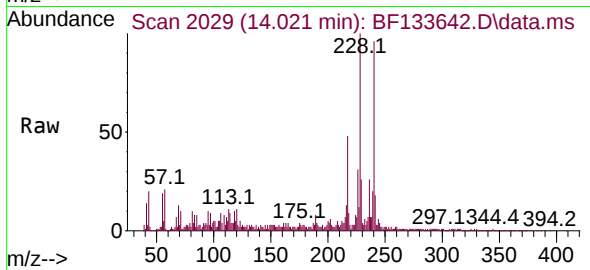
Tgt Ion:240 Resp: 147164
 Ion Ratio Lower Upper
 240 100
 120 11.2 10.3 15.5
 236 27.3 20.5 30.7

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 06/09/2023

Supervised By :mohammad ahmed 06/13/2023



#78

Pyrene

Concen: 160.049 ng

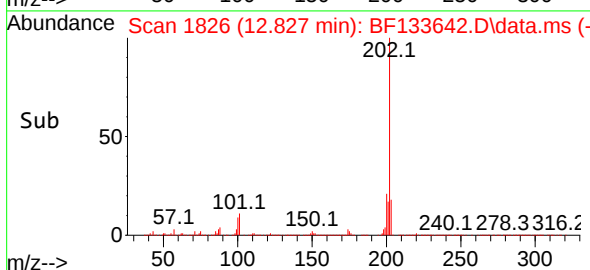
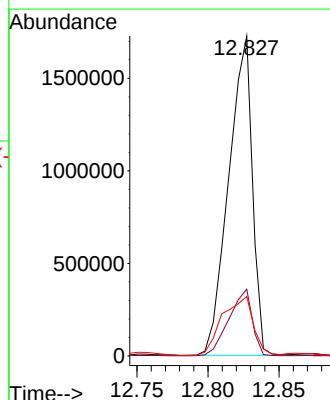
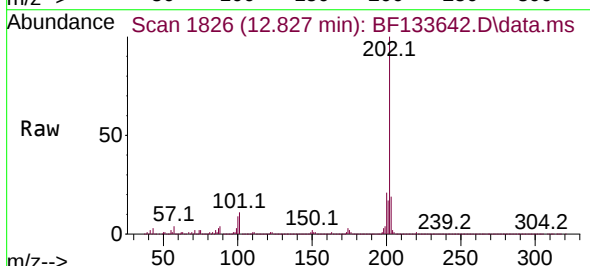
RT: 12.827 min Scan# 1826

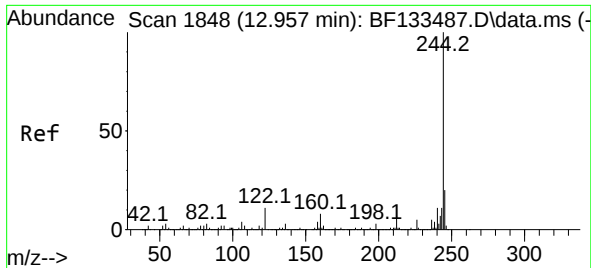
Delta R.T. 0.012 min

Lab File: BF133642.D

Acq: 08 Jun 2023 15:02

Tgt Ion:202 Resp: 2004300
 Ion Ratio Lower Upper
 202 100
 200 20.8 16.3 24.5
 203 18.6 14.3 21.5





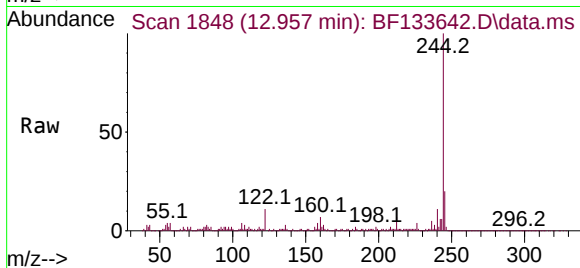
#79
 Terphenyl-d14
 Concen: 61.396 ng
 RT: 12.957 min Scan# 1848
 Delta R.T. -0.000 min
 Lab File: BF133642.D
 Acq: 08 Jun 2023 15:02

Instrument :

BNA_F

ClientSampleId :

HR-03-060523

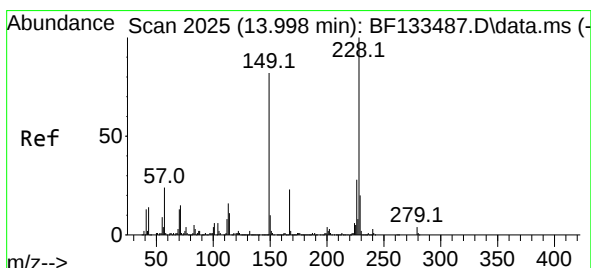
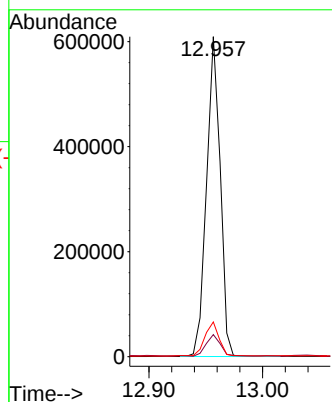
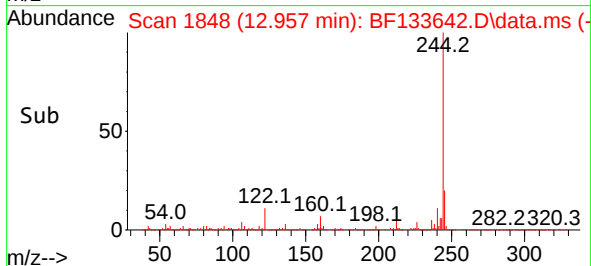


Tgt Ion:244 Resp: 508178
 Ion Ratio Lower Upper
 244 100
 212 6.9 5.8 8.6
 122 10.8 8.5 12.7

Manual Integrations

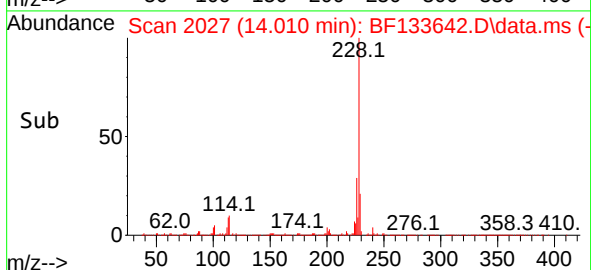
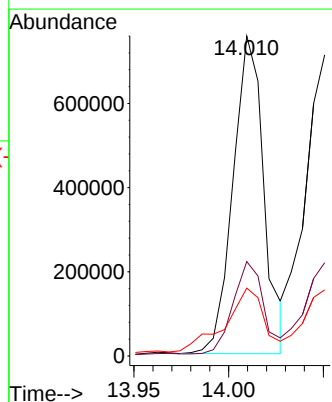
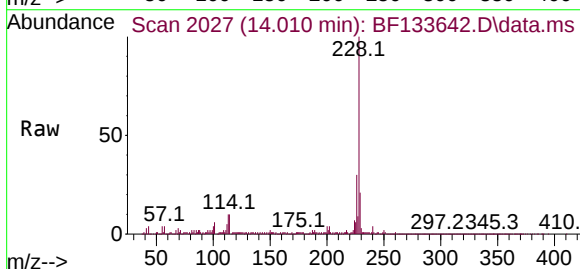
APPROVED

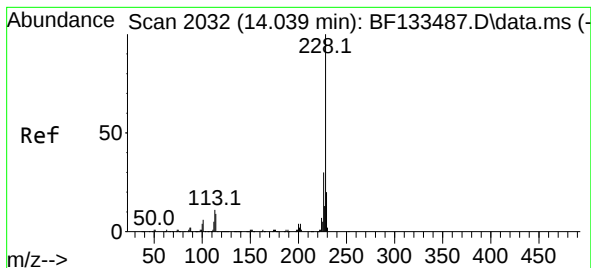
Reviewed By :Yogesh Patel 06/09/2023
 Supervised By :mohammad ahmed 06/13/2023



#81
 Benzo(a)anthracene
 Concen: 86.980 ng
 RT: 14.010 min Scan# 2027
 Delta R.T. 0.006 min
 Lab File: BF133642.D
 Acq: 08 Jun 2023 15:02

Tgt Ion:228 Resp: 852719
 Ion Ratio Lower Upper
 228 100
 226 29.5 22.3 33.5
 229 21.2 16.1 24.1





#83

Chrysene

Concen: 70.836 ng

RT: 14.051 min Scan# 2032

Delta R.T. 0.006 min

Lab File: BF133642.D

Acq: 08 Jun 2023 15:02

Instrument :

BNA_F

ClientSampleId :

HR-03-060523

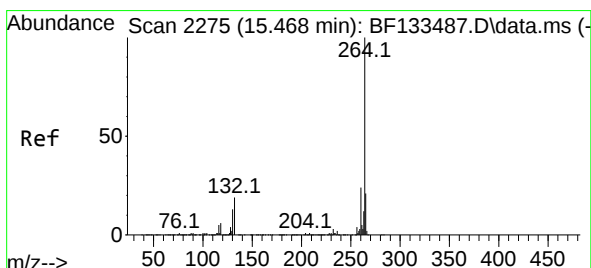
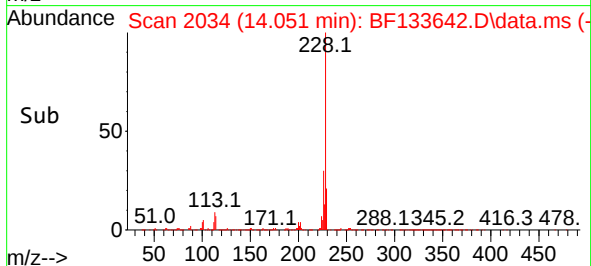
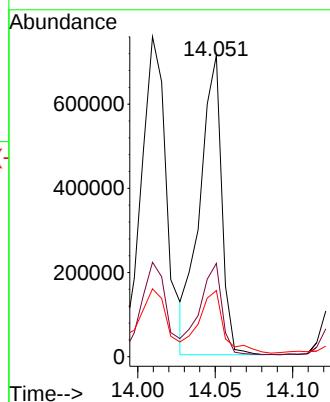
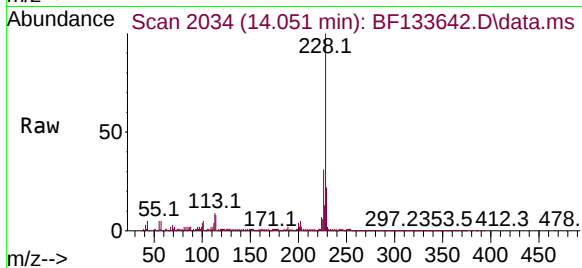
Tgt Ion:	228	Resp:	701054
Ion Ratio	Lower	Upper	
228	100		
226	31.0	24.1	36.1
229	22.0	15.8	23.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 06/09/2023

Supervised By :mohammad ahmed 06/13/2023



#86

Perylene-d12

Concen: 20.000 ng

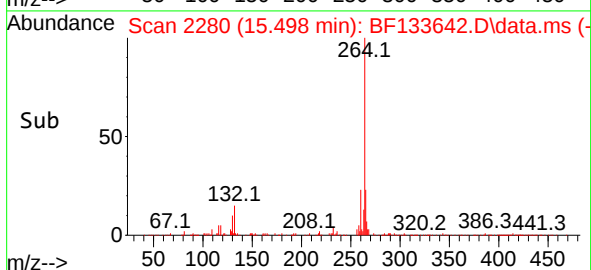
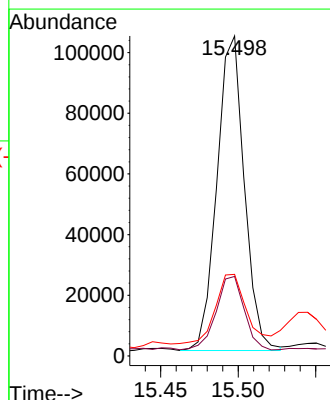
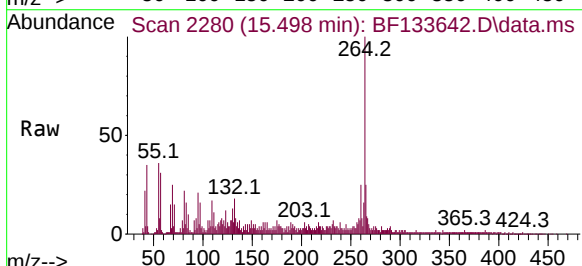
RT: 15.498 min Scan# 2280

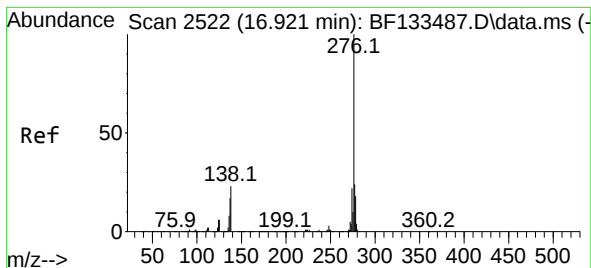
Delta R.T. 0.018 min

Lab File: BF133642.D

Acq: 08 Jun 2023 15:02

Tgt Ion:	264	Resp:	127287
Ion Ratio	Lower	Upper	
264	100		
260	24.9	19.0	28.4
265	25.5	16.8	25.2





#87

Indeno(1,2,3-cd)pyrene

Concen: 50.736 ng m

RT: 16.980 min Scan# 21

Delta R.T. 0.035 min

Lab File: BF133642.D

Acq: 08 Jun 2023 15:02

Instrument :

BNA_F

ClientSampleId :

HR-03-060523

Tgt Ion:276 Resp: 411370

Ion Ratio Lower Upper

276 100

138 0.8 21.4 32.2

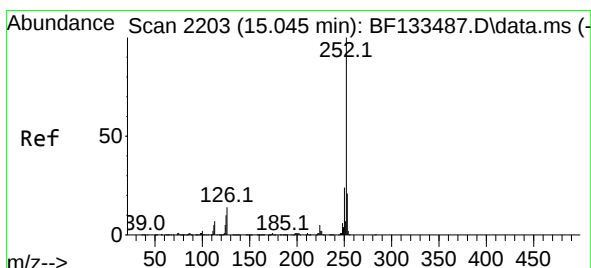
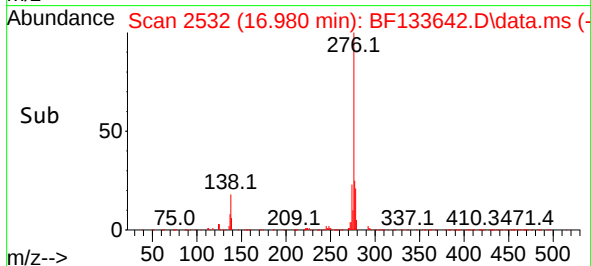
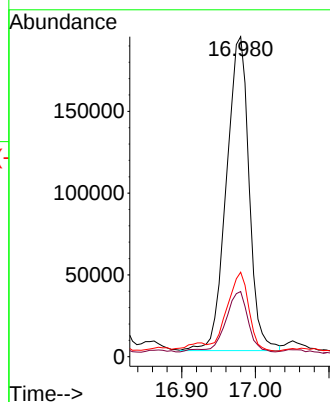
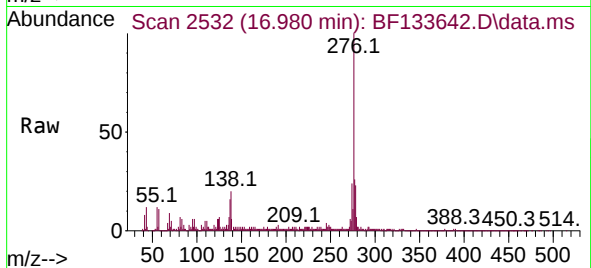
277 0.8 20.0 30.0

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 06/09/2023

Supervised By :mohammad ahmed 06/13/2023



#88

Benzo(b)fluoranthene

Concen: 99.795 ng m

RT: 15.068 min Scan# 2207

Delta R.T. 0.018 min

Lab File: BF133642.D

Acq: 08 Jun 2023 15:02

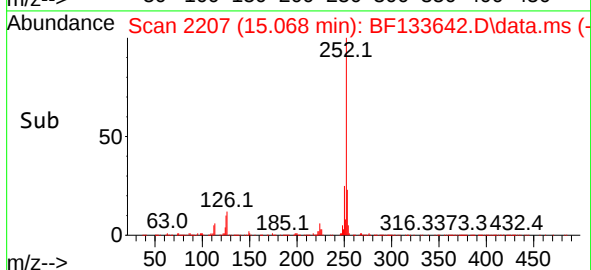
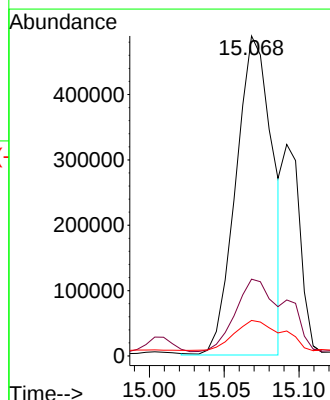
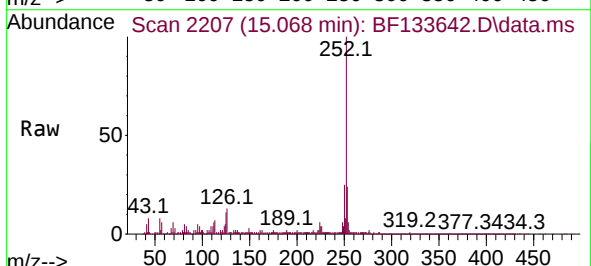
Tgt Ion:252 Resp: 827159

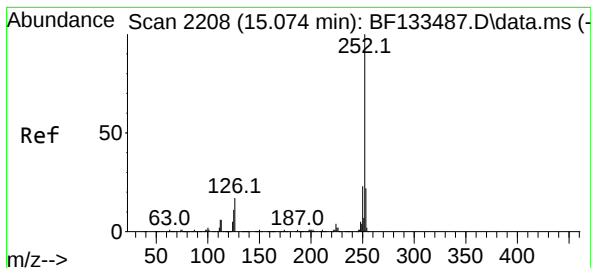
Ion Ratio Lower Upper

252 100

253 24.0 17.2 25.8

125 11.1 8.1 12.1





#89

Benzo(k)fluoranthene

Concen: 32.723 ng m

RT: 15.092 min Scan# 211

Delta R.T. 0.006 min

Lab File: BF133642.D

Acq: 08 Jun 2023 15:02

Instrument :

BNF

ClientSampleId :

HR-03-060523

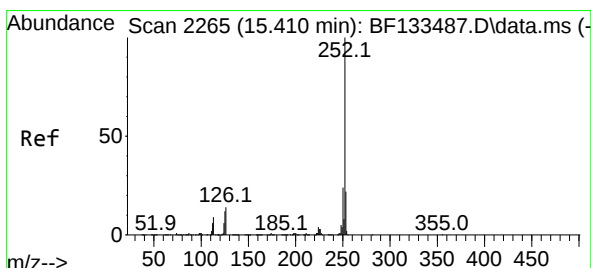
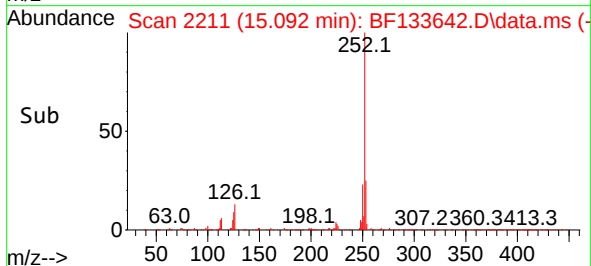
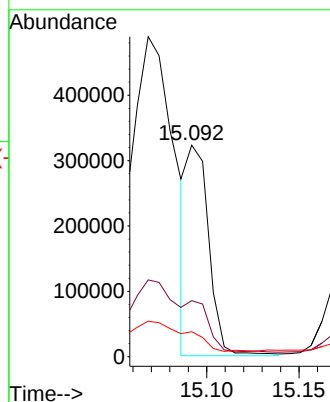
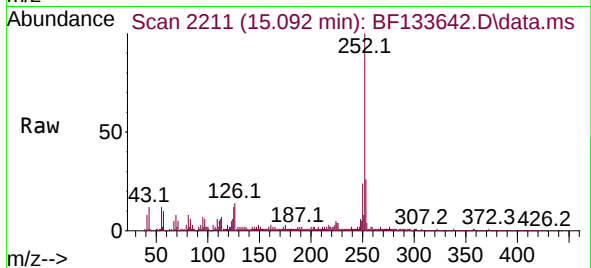
Tgt Ion:252 Resp: 264470
 Ion Ratio Lower Upper
 252 100
 253 26.5 17.4 26.2
 125 11.8 8.3 12.5

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 06/09/2023

Supervised By :mohammad ahmed 06/13/2023



#90

Benzo(a)pyrene

Concen: 80.584 ng

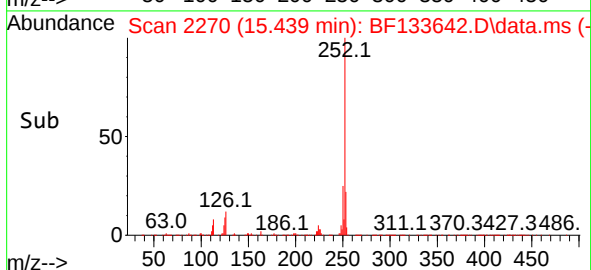
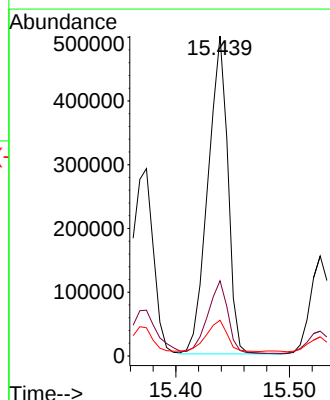
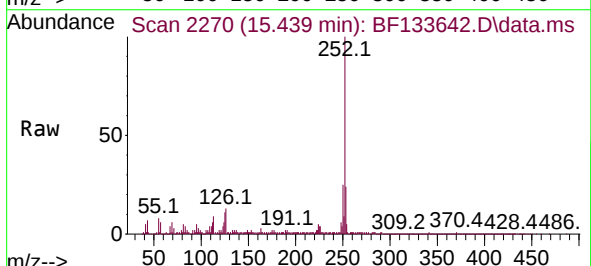
RT: 15.439 min Scan# 2270

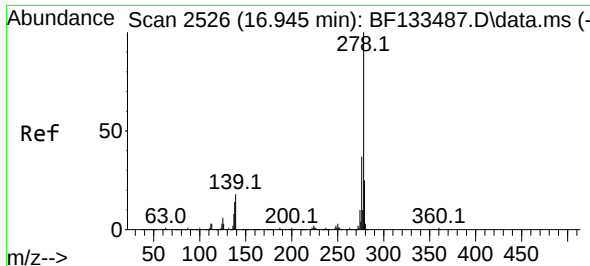
Delta R.T. 0.024 min

Lab File: BF133642.D

Acq: 08 Jun 2023 15:02

Tgt Ion:252 Resp: 607772
 Ion Ratio Lower Upper
 252 100
 253 23.5 17.4 26.0
 125 11.2 9.4 14.0





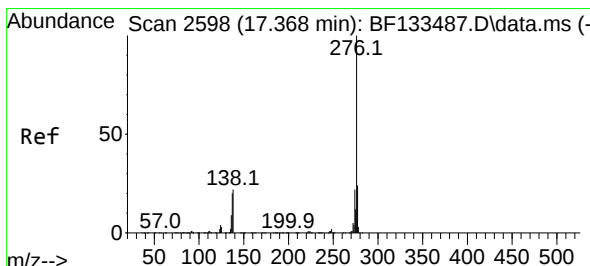
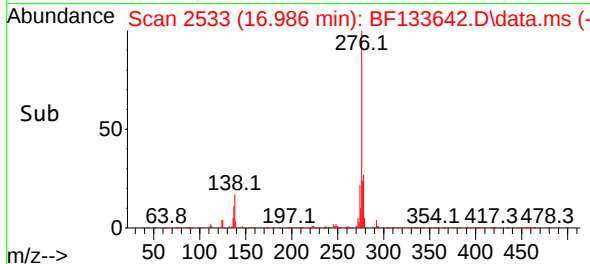
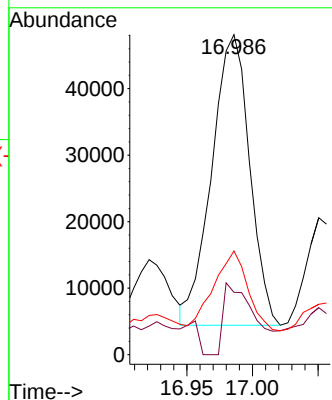
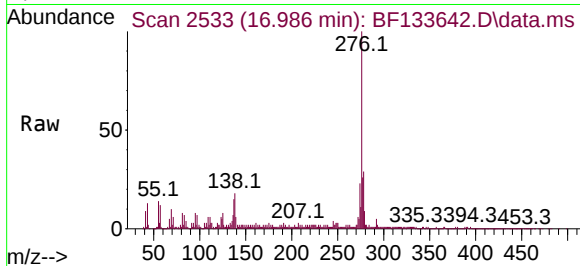
#91
Dibenzo(a,h)anthracene
Concen: 13.377 ng
RT: 16.986 min Scan# 21
Delta R.T. 0.018 min
Lab File: BF133642.D
Acq: 08 Jun 2023 15:02

Instrument :
BNA_F
ClientSampleId :
HR-03-060523

Tgt Ion:278 Resp: 87939
Ion Ratio Lower Upper
278 100
139 19.5 14.1 21.1
279 32.4 19.7 29.5

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 06/09/2023
Supervised By :mohammad ahmed 06/13/2023



#92
Benzo(g,h,i)perylene
Concen: 58.776 ng
RT: 17.427 min Scan# 2608
Delta R.T. 0.035 min
Lab File: BF133642.D
Acq: 08 Jun 2023 15:02

Tgt Ion:276 Resp: 389596
Ion Ratio Lower Upper
276 100
277 24.4 18.8 28.2
138 19.7 17.8 26.6

