

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF062723\
 Data File : BF134004.D
 Acq On : 27 Jun 2023 22:22
 Operator : CG\JU
 Sample : 03394-01 5X
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 ORA-1651

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 06/28/2023
 Supervised By :mohammad ahmed 06/29/2023

Quant Time: Jun 28 01:32:00 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF062623.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jun 26 23:12:04 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.851	152	82287	20.000	ng	0.00
21) Naphthalene-d8	8.133	136	269917	20.000	ng	0.00
39) Acenaphthene-d10	9.892	164	113624	20.000	ng	0.00
64) Phenanthrene-d10	11.386	188	212825	20.000	ng	0.00
76) Chrysene-d12	14.045	240	131437	20.000	ng	0.00
86) Perylene-d12	15.557	264	104722	20.000	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.481	112	105538	21.454	ng	0.00
7) Phenol-d6	6.481	99	122407	20.234	ng	-0.01
23) Nitrobenzene-d5	7.410	82	75353	15.049	ng	0.00
42) 2,4,6-Tribromophenol	10.680	330	27068	19.000	ng	0.00
45) 2-Fluorobiphenyl	9.204	172	128572	16.452	ng	0.00
79) Terphenyl-d14	12.980	244	133044	16.291	ng	0.00
Target Compounds						Qvalue
49) Acenaphthylene	9.751	152	49718	4.364	ng	98
52) Acenaphthene	9.922	154	30315	4.586	ng	98
55) Dibenzofuran	10.098	168	28217	2.731	ng	# 98
58) Fluorene	10.439	166	42983	5.348	ng	98
71) Phenanthrene	11.410	178	295403	27.572	ng	99
72) Anthracene	11.463	178	117926	10.582	ng	99
75) Fluoranthene	12.610	202	713168	61.571	ng	99
78) Pyrene	12.839	202	676581	55.312	ng	99
81) Benzo(a)anthracene	14.039	228	261184	28.653	ng	95
83) Chrysene	14.074	228	230422	26.099	ng	97
87) Indeno(1,2,3-cd)pyrene	17.104	276	97438	13.409	ng	95
88) Benzo(b)fluoranthene	15.110	252	233149m	37.863	ng	
89) Benzo(k)fluoranthene	15.133	252	80465m	12.834	ng	
90) Benzo(a)pyrene	15.492	252	175947	29.549	ng	99
91) Dibenzo(a,h)anthracene	17.115	278	24185	4.075	ng	# 79
92) Benzo(g,h,i)perylene	17.574	276	91198	14.900	ng	96

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

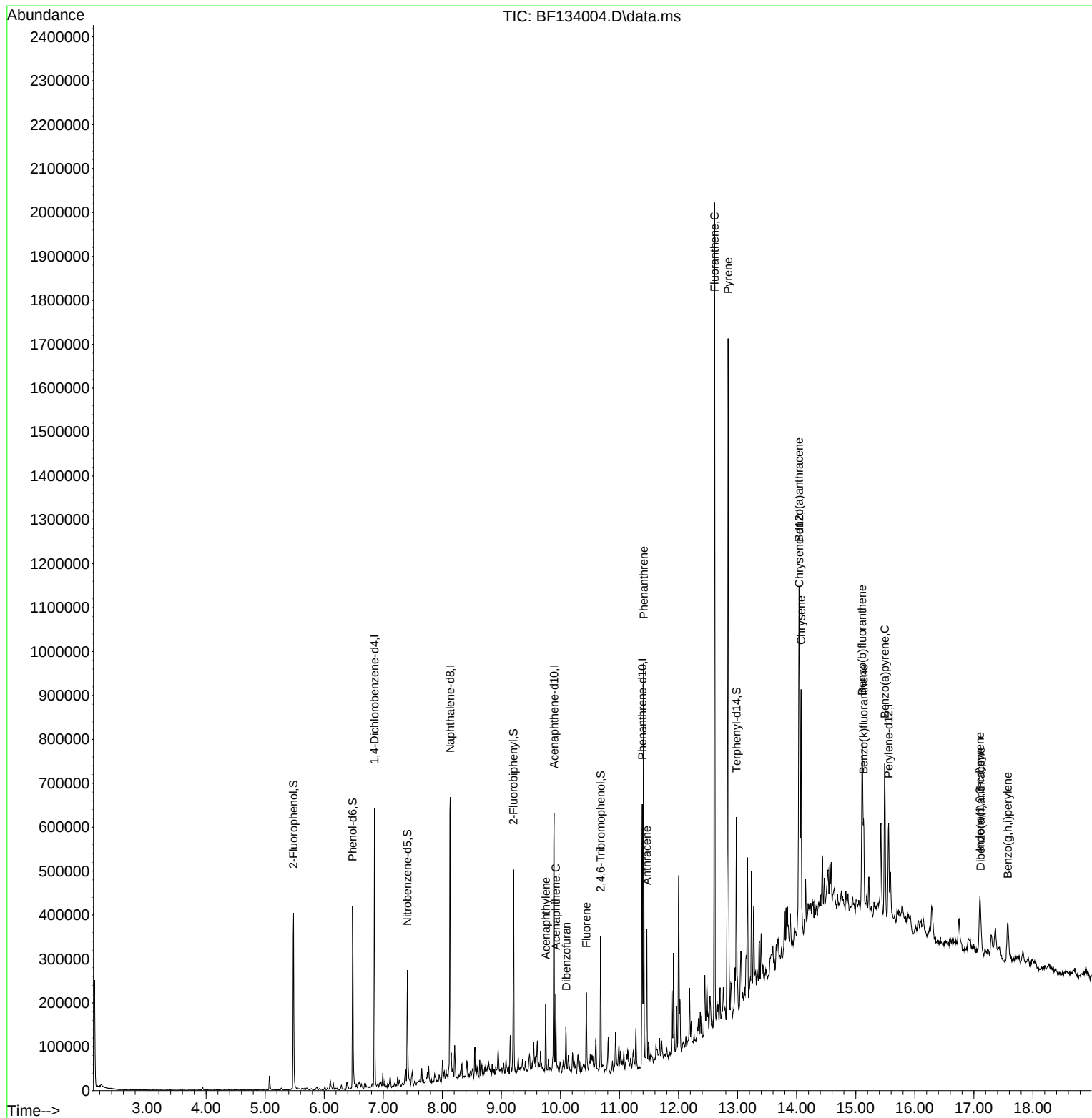
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF062723\
Data File : BF134004.D
Acq On : 27 Jun 2023 22:22
Operator : CG\JU
Sample : 03394-01 5X
Misc :
ALS Vial : 23 Sample Multiplier: 1

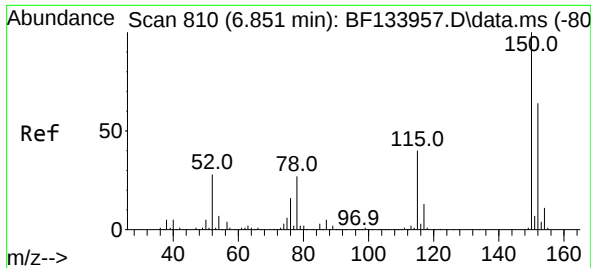
Instrument :
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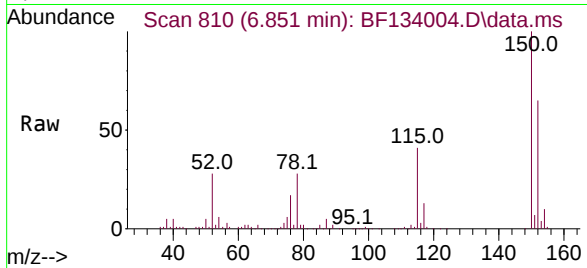
Quant Time: Jun 28 01:32:00 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF062623.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Jun 26 23:12:04 2023
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.851 min Scan# 810
Delta R.T. 0.000 min
Lab File: BF134004.D
Acq: 27 Jun 2023 22:22

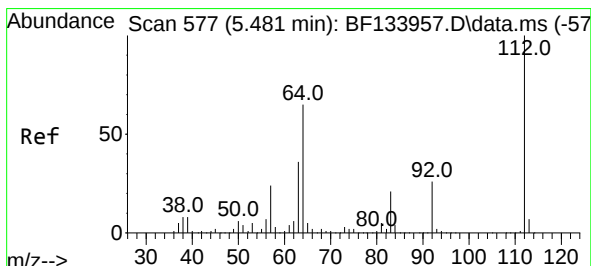
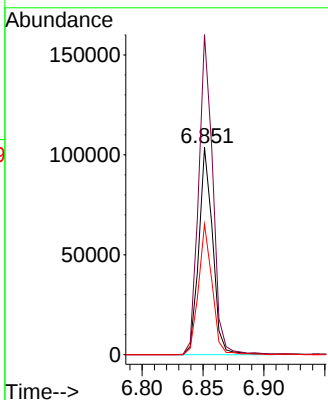
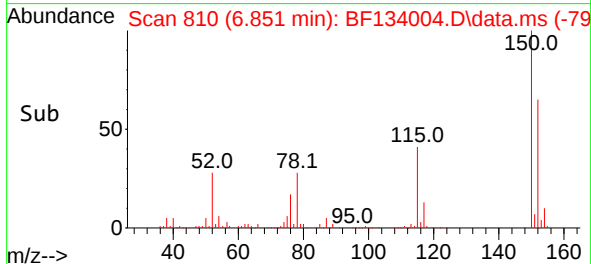
Instrument :
BNA_F
ClientSampleId :
ORA-1651



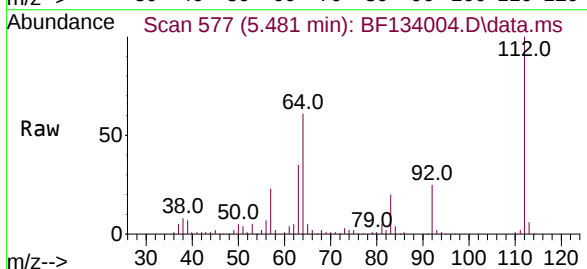
Tgt Ion:152 Resp: 8228
Ion Ratio Lower Upper
152 100
150 154.4 124.5 186.7
115 63.0 50.2 75.2

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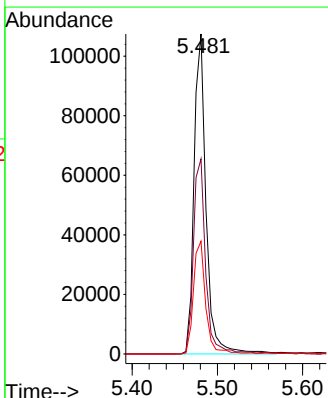
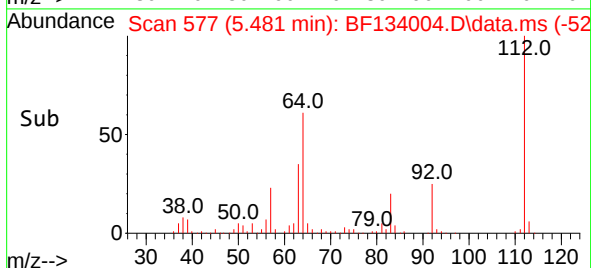
Reviewed By :Yogesh Patel 06/28/2023
Supervised By :mohammad ahmed 06/29/2023

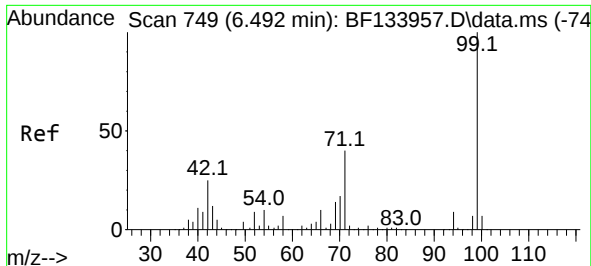


#5
2-Fluorophenol
Concen: 21.454 ng
RT: 5.481 min Scan# 577
Delta R.T. 0.000 min
Lab File: BF134004.D
Acq: 27 Jun 2023 22:22



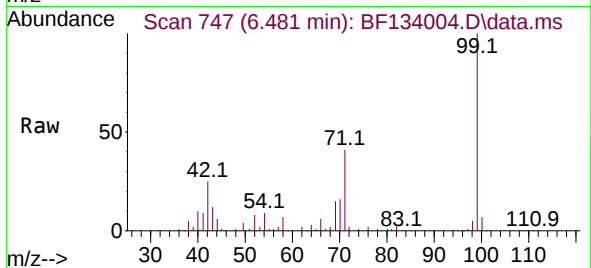
Tgt Ion:112 Resp: 105538
Ion Ratio Lower Upper
112 100
64 61.0 52.1 78.1
63 35.2 28.6 42.8





#7
Phenol-d6
Concen: 20.234 ng
RT: 6.481 min Scan# 749
Delta R.T. -0.012 min
Lab File: BF134004.D
Acq: 27 Jun 2023 22:22

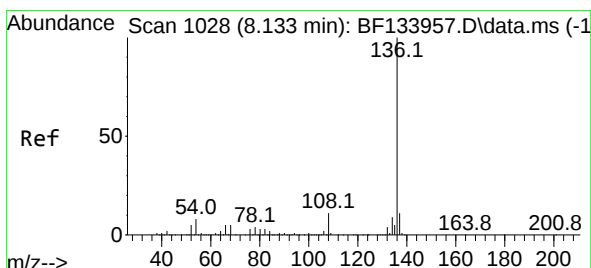
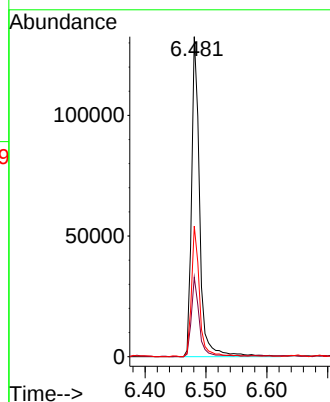
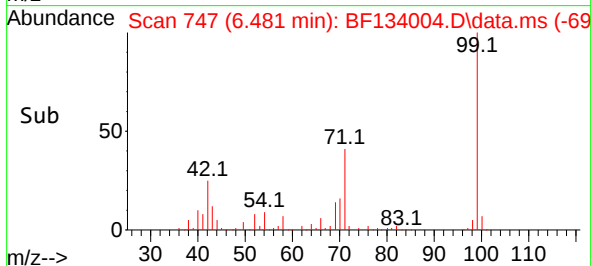
Instrument :
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ClientSampleId :
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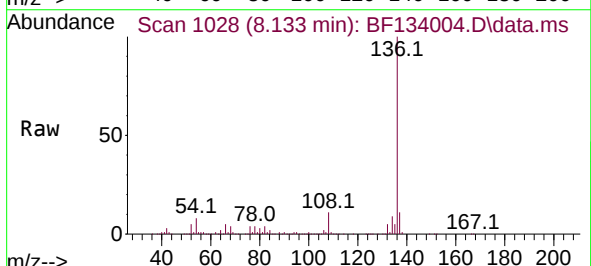
Tgt Ion: 99 Resp: 12240
Ion Ratio Lower Upper
99 100
42 24.8 19.8 29.6
71 40.8 31.9 47.9

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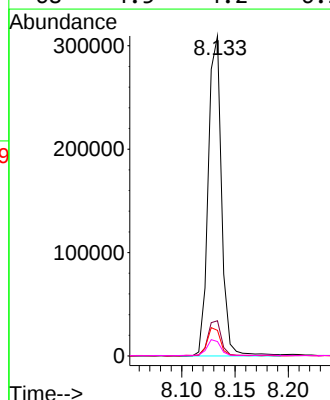
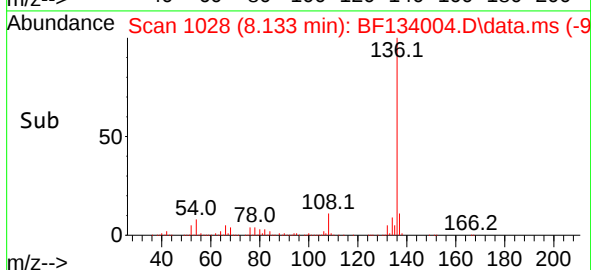
Reviewed By :Yogesh Patel 06/28/2023
Supervised By :mohammad ahmed 06/29/2023

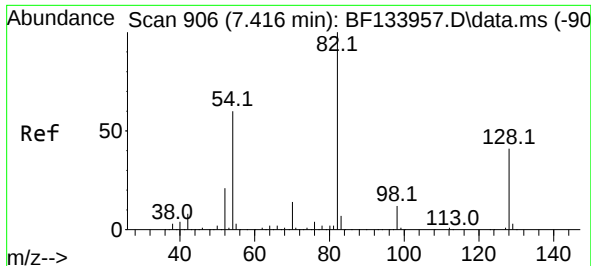


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.133 min Scan# 1028
Delta R.T. 0.000 min
Lab File: BF134004.D
Acq: 27 Jun 2023 22:22



Tgt Ion:136 Resp: 269917
Ion Ratio Lower Upper
136 100
137 11.0 8.6 12.8
54 8.0 6.5 9.7
68 4.5 4.2 6.2





#23

Nitrobenzene-d5

Concen: 15.049 ng

RT: 7.410 min Scan# 906

Delta R.T. -0.006 min

Lab File: BF134004.D

Acq: 27 Jun 2023 22:22

Instrument :

BNA_F

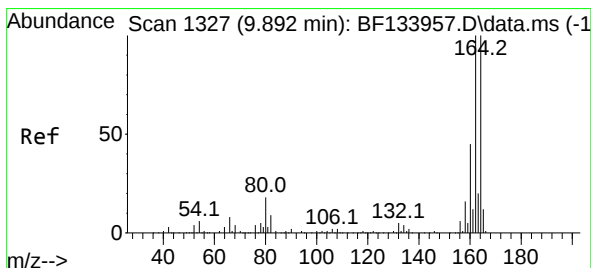
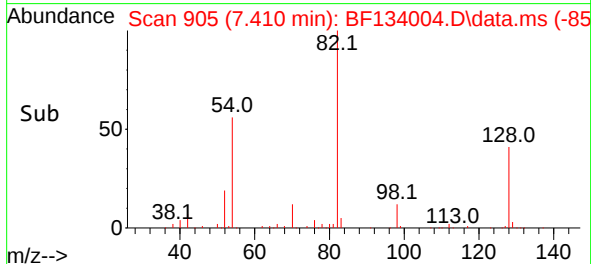
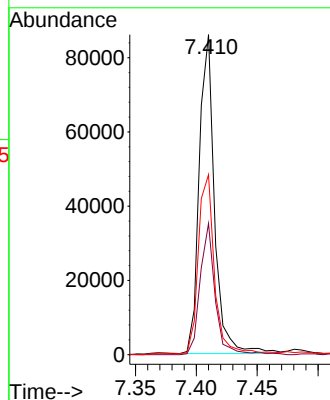
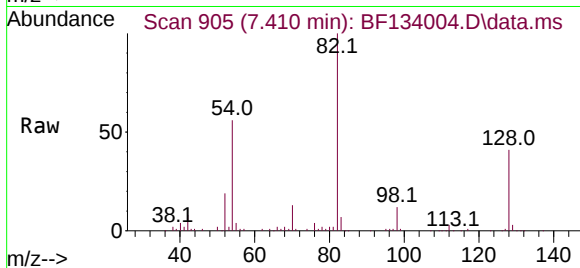
ClientSampleId :

ORA-1651

Tgt Ion: 82 Resp: 7535
 Ion Ratio Lower Upper
 82 100
 128 41.0 32.5 48.7
 54 56.2 48.2 72.2

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#39

Acenaphthene-d10

Concen: 20.000 ng

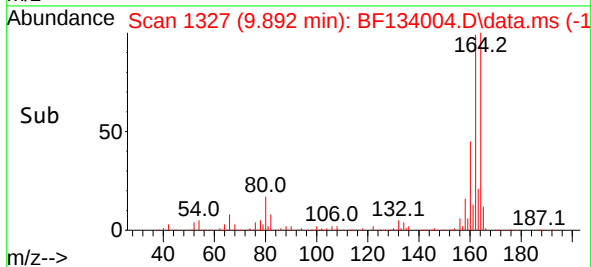
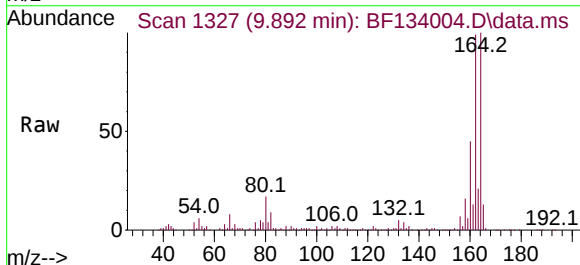
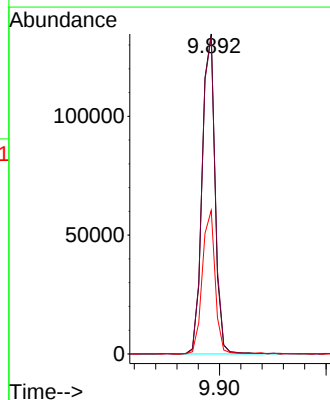
RT: 9.892 min Scan# 1327

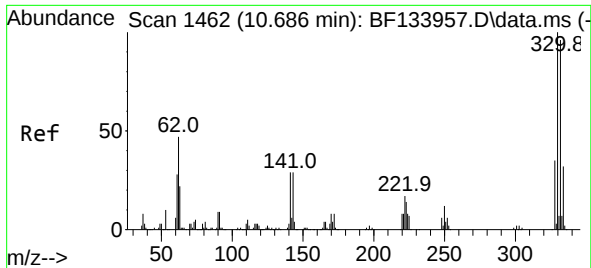
Delta R.T. 0.000 min

Lab File: BF134004.D

Acq: 27 Jun 2023 22:22

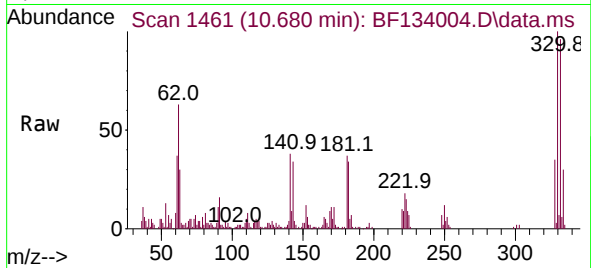
Tgt Ion:164 Resp: 113624
 Ion Ratio Lower Upper
 164 100
 162 99.2 80.0 120.0
 160 44.9 35.9 53.9





#42
2,4,6-Tribromophenol
Concen: 19.000 ng
RT: 10.680 min Scan# 1461
Delta R.T. -0.006 min
Lab File: BF134004.D
Acq: 27 Jun 2023 22:22

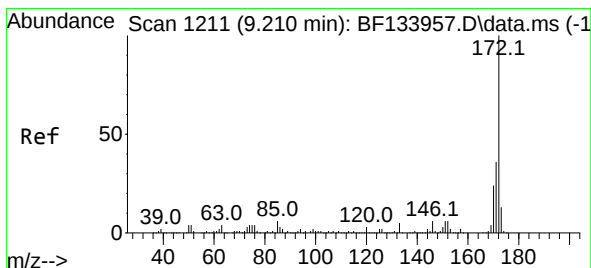
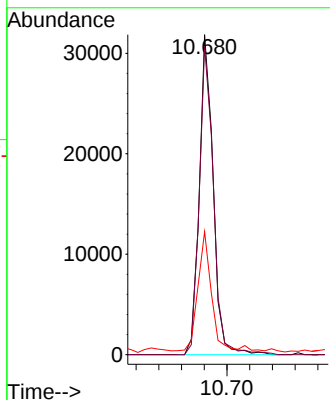
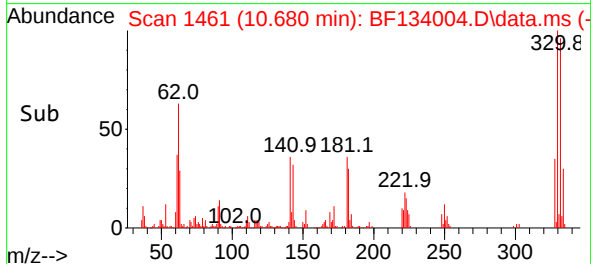
Instrument :
BNA_F
ClientSampleId :
ORA-1651



Tgt Ion: 330 Resp: 27068
Ion Ratio Lower Upper
330 100
332 98.4 77.0 115.6
141 35.5 26.3 39.5

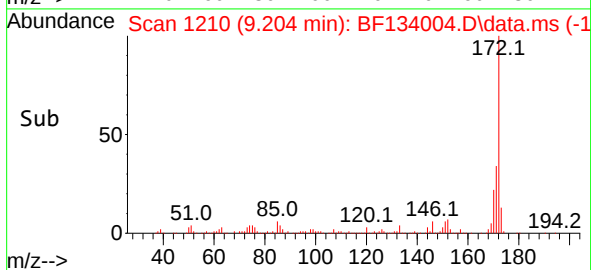
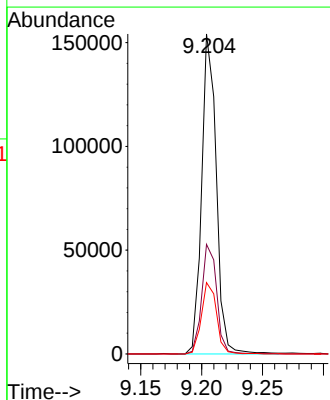
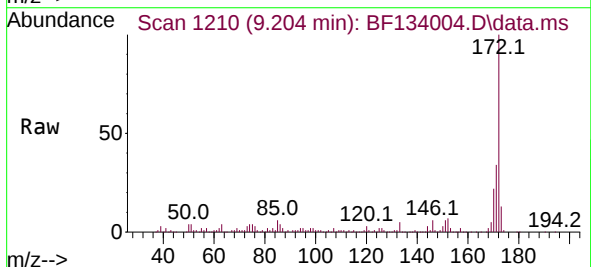
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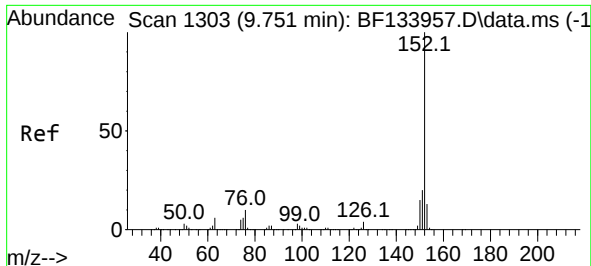
Reviewed By : Yogesh Patel 06/28/2023
Supervised By : mohammad ahmed 06/29/2023



#45
2-Fluorobiphenyl
Concen: 16.452 ng
RT: 9.204 min Scan# 1210
Delta R.T. -0.006 min
Lab File: BF134004.D
Acq: 27 Jun 2023 22:22

Tgt Ion: 172 Resp: 128572
Ion Ratio Lower Upper
172 100
171 34.2 28.6 43.0
170 22.3 19.4 29.0





#49

Acenaphthylene

Concen: 4.364 ng

RT: 9.751 min Scan# 1303

Delta R.T. 0.000 min

Lab File: BF134004.D

Acq: 27 Jun 2023 22:22

Instrument :

BNA_F

ClientSampleId :

ORA-1651

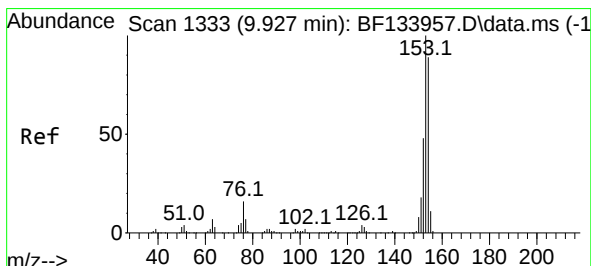
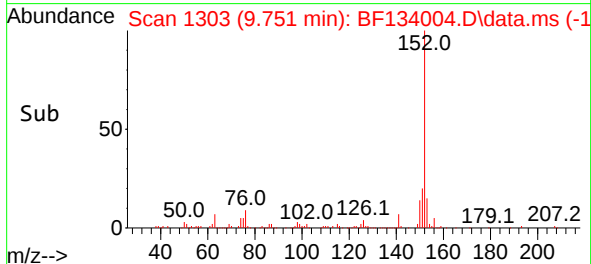
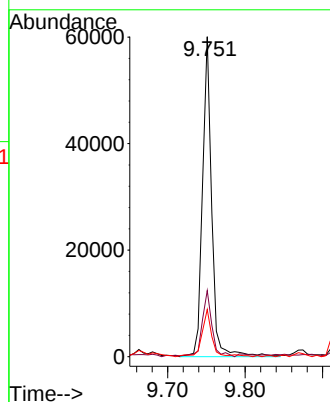
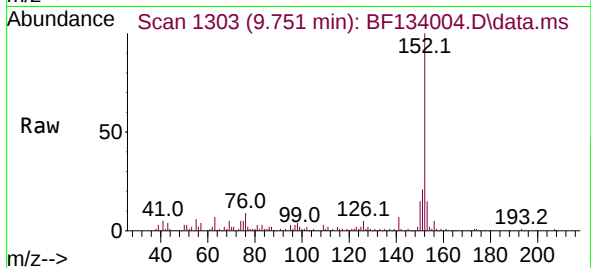
Tgt Ion:	152	Resp:	49718
Ion Ratio	Lower	Upper	
152	100		
151	20.7	16.2	24.2
153	14.7	10.8	16.2

Manual Integrations

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Reviewed By :Yogesh Patel 06/28/2023

Supervised By :mohammad ahmed 06/29/2023



#52

Acenaphthene

Concen: 4.586 ng

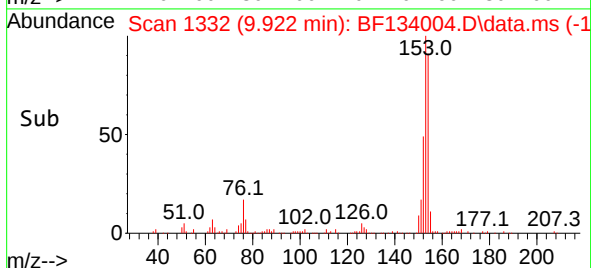
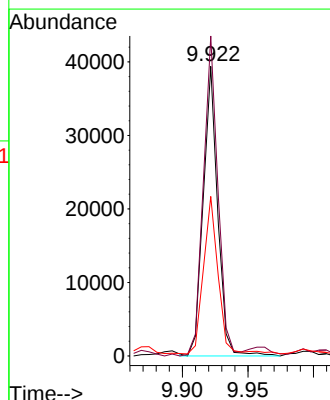
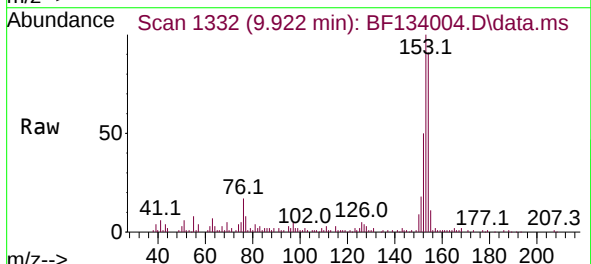
RT: 9.922 min Scan# 1332

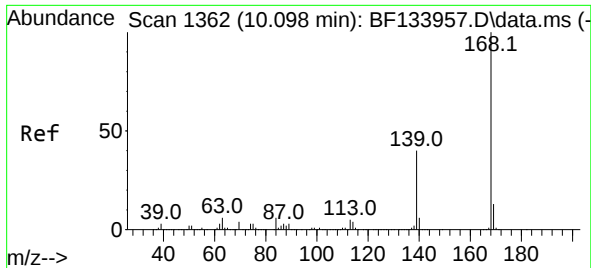
Delta R.T. -0.005 min

Lab File: BF134004.D

Acq: 27 Jun 2023 22:22

Tgt Ion:	154	Resp:	30315
Ion Ratio	Lower	Upper	
154	100		
153	110.5	89.4	134.2
152	55.1	42.8	64.2





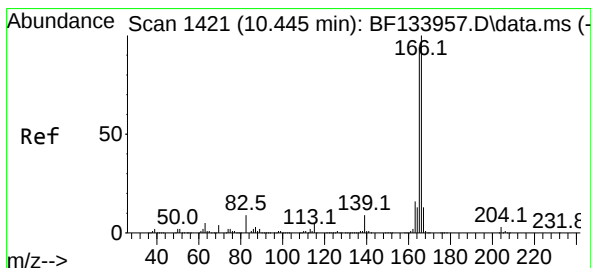
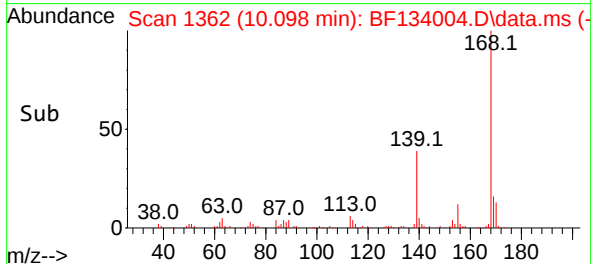
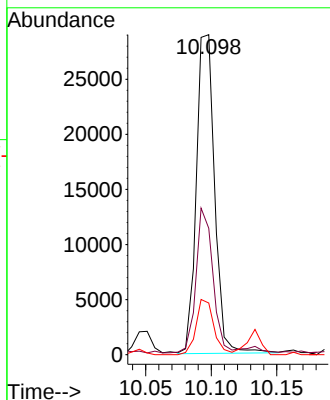
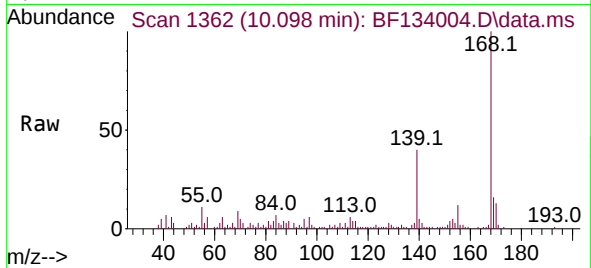
#55
Dibenzenofuran
Concen: 2.731 ng
RT: 10.098 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF134004.D
Acq: 27 Jun 2023 22:22

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Tgt Ion:168 Resp: 2821
Ion Ratio Lower Upper
168 100
139 39.5 32.0 48.0
169 16.2 10.6 16.0

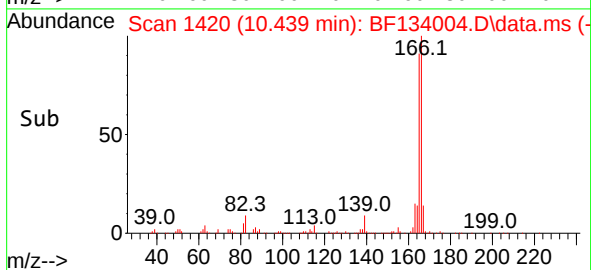
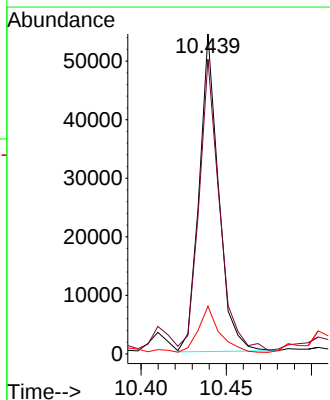
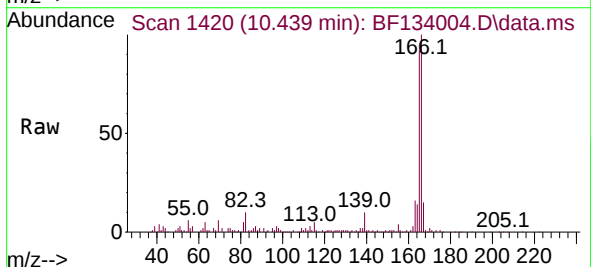
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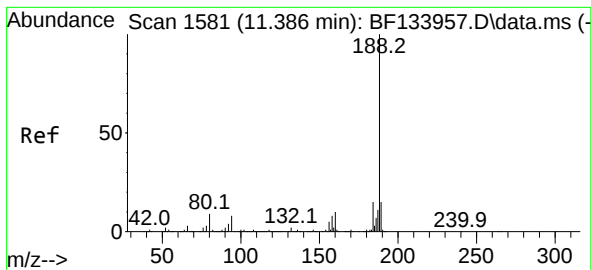
Reviewed By :Yogesh Patel 06/28/2023
Supervised By :mohammad ahmed 06/29/2023



#58
Fluorene
Concen: 5.348 ng
RT: 10.439 min Scan# 1420
Delta R.T. -0.006 min
Lab File: BF134004.D
Acq: 27 Jun 2023 22:22

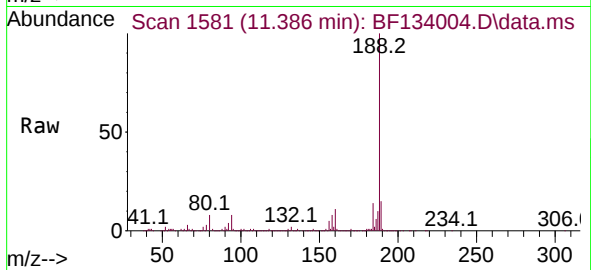
Tgt Ion:166 Resp: 42983
Ion Ratio Lower Upper
166 100
165 92.1 75.0 112.4
167 14.9 10.6 15.8





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.386 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BF134004.D
Acq: 27 Jun 2023 22:22

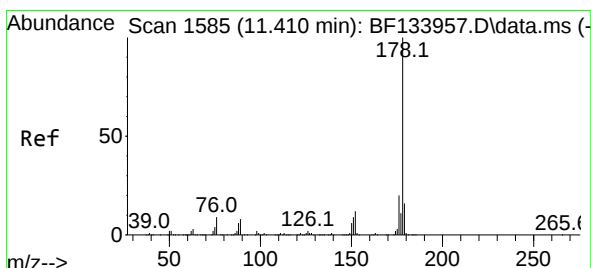
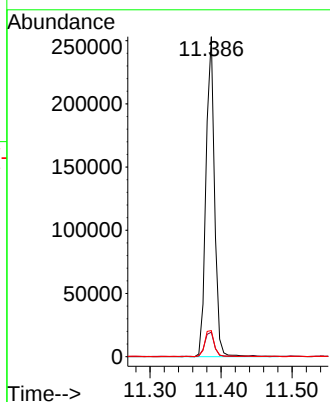
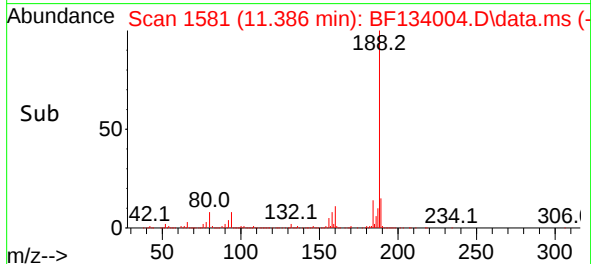
Instrument :
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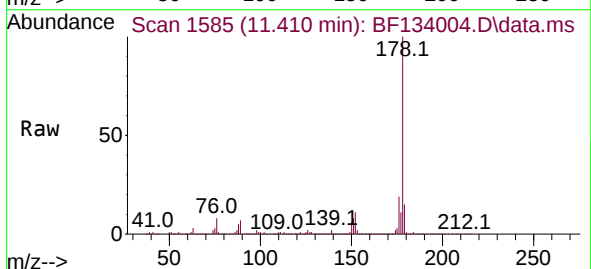
Tgt Ion:188 Resp: 212825
Ion Ratio Lower Upper
188 100
94 7.7 6.4 9.6
80 8.2 7.3 10.9

Manual Integrations
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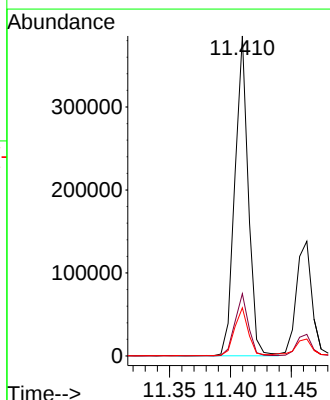
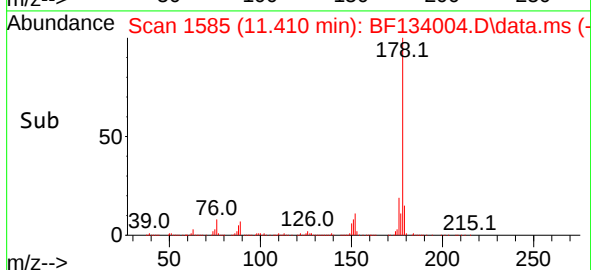
Reviewed By :Yogesh Patel 06/28/2023
Supervised By :mohammad ahmed 06/29/2023

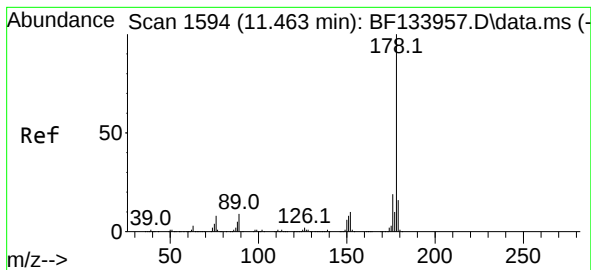


#71
Phenanthrene
Concen: 27.572 ng
RT: 11.410 min Scan# 1585
Delta R.T. 0.000 min
Lab File: BF134004.D
Acq: 27 Jun 2023 22:22



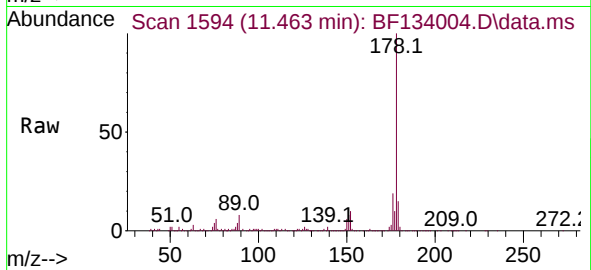
Tgt Ion:178 Resp: 295403
Ion Ratio Lower Upper
178 100
176 19.4 16.0 24.0
179 15.0 12.4 18.6





#72
 Anthracene
 Concen: 10.582 ng
 RT: 11.463 min Scan# 11792
 Delta R.T. 0.000 min
 Lab File: BF134004.D
 Acq: 27 Jun 2023 22:22

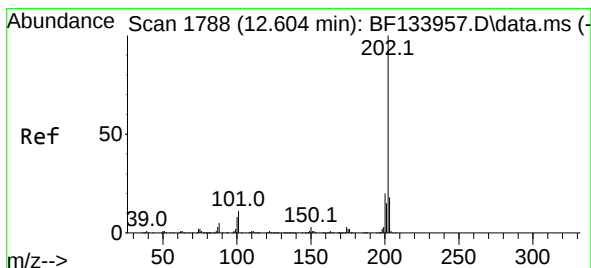
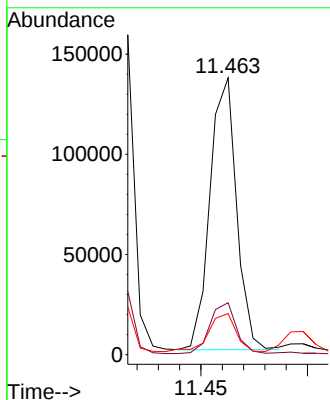
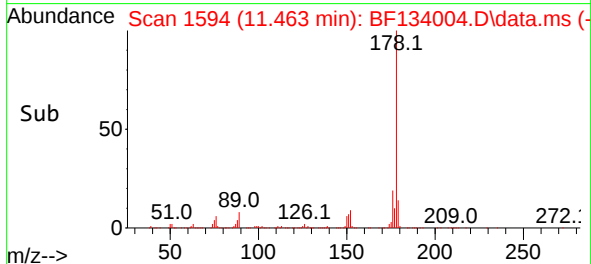
Instrument :
 BNA_F
 ClientSampleId :
 ORA-1651



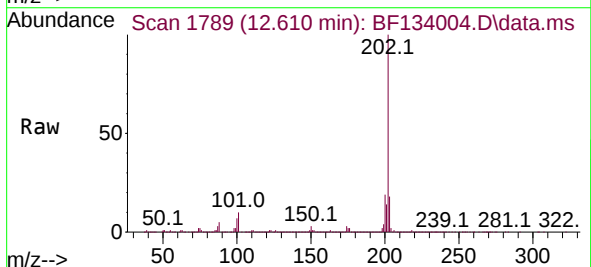
Tgt Ion:178 Resp: 117920
 Ion Ratio Lower Upper
 178 100
 176 18.8 15.3 22.9
 179 14.8 12.4 18.6

Manual Integrations
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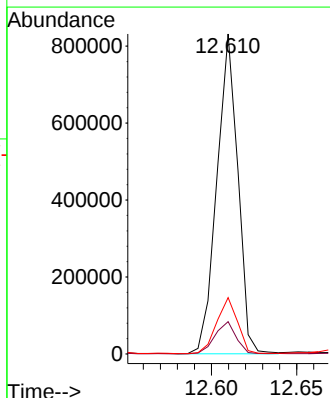
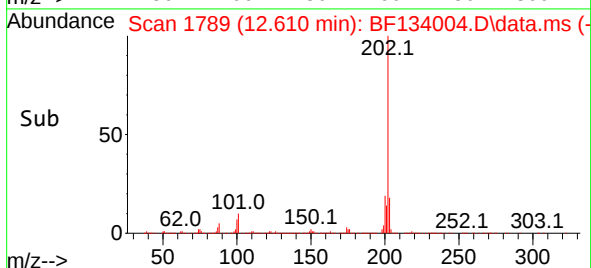
Reviewed By :Yogesh Patel 06/28/2023
 Supervised By :mohammad ahmed 06/29/2023

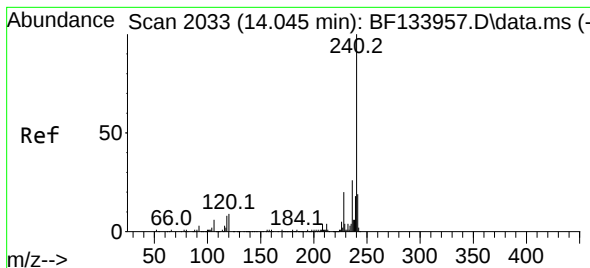


#75
 Fluoranthene
 Concen: 61.571 ng
 RT: 12.610 min Scan# 1789
 Delta R.T. 0.006 min
 Lab File: BF134004.D
 Acq: 27 Jun 2023 22:22



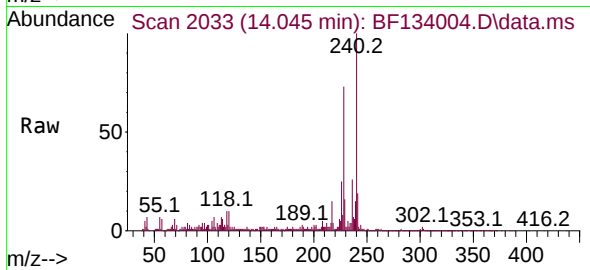
Tgt Ion:202 Resp: 713168
 Ion Ratio Lower Upper
 202 100
 101 10.1 0.0 31.0
 203 17.6 0.0 37.6





#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.045 min Scan# 2033
Delta R.T. 0.000 min
Lab File: BF134004.D
Acq: 27 Jun 2023 22:22

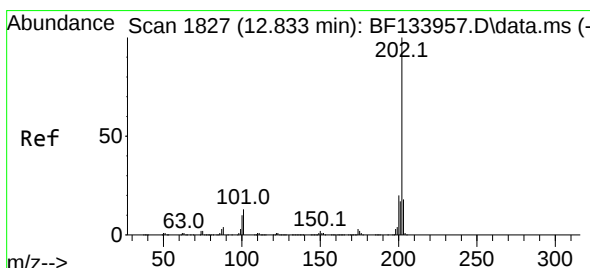
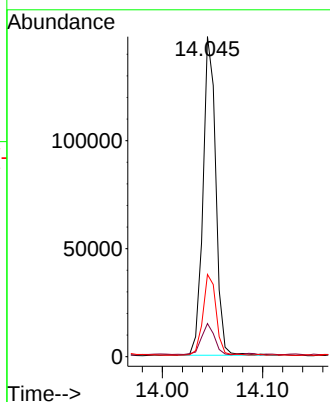
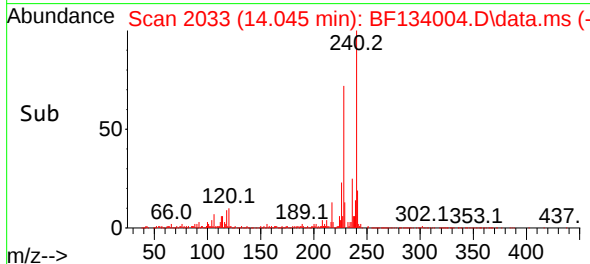
Instrument :
BNA_F
ClientSampleId :
ORA-1651



Tgt Ion:240 Resp: 13143
Ion Ratio Lower Upper
240 100
120 10.4 7.4 11.0
236 25.7 21.0 31.6

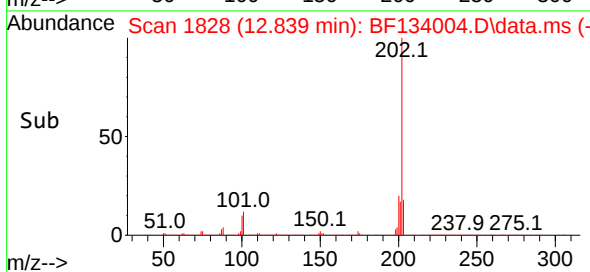
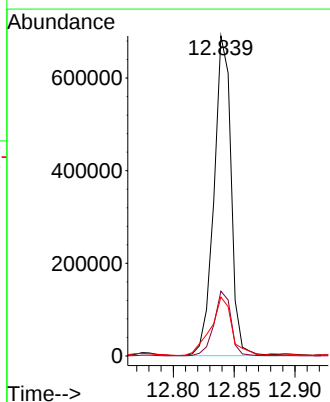
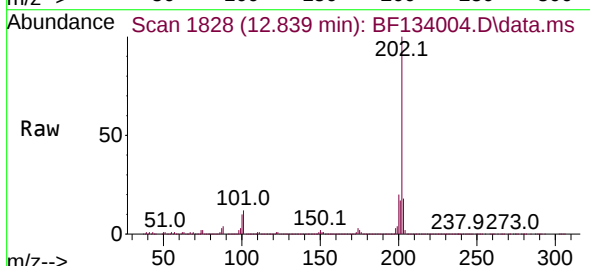
Manual Integrations
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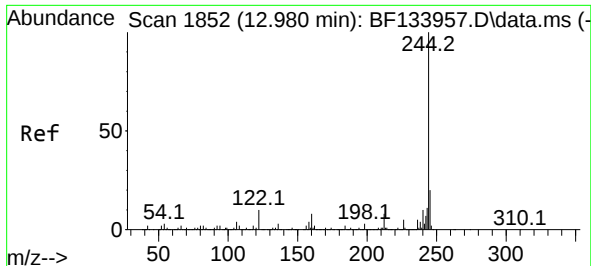
Reviewed By :Yogesh Patel 06/28/2023
Supervised By :mohammad ahmed 06/29/2023



#78
Pyrene
Concen: 55.312 ng
RT: 12.839 min Scan# 1828
Delta R.T. 0.006 min
Lab File: BF134004.D
Acq: 27 Jun 2023 22:22

Tgt Ion:202 Resp: 676581
Ion Ratio Lower Upper
202 100
200 20.2 16.1 24.1
203 18.4 14.3 21.5





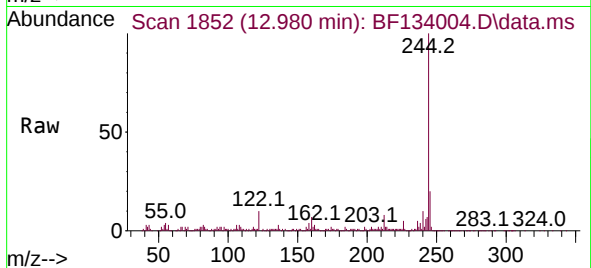
#79
 Terphenyl-d14
 Concen: 16.291 ng
 RT: 12.980 min Scan# 1852
 Delta R.T. 0.000 min
 Lab File: BF134004.D
 Acq: 27 Jun 2023 22:22

Instrument :

BNA_F

ClientSampleId :

ORA-1651

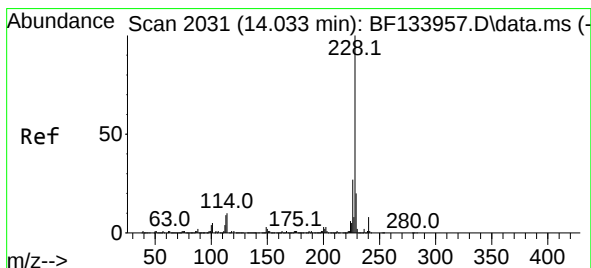
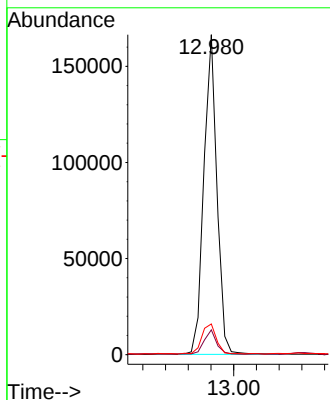
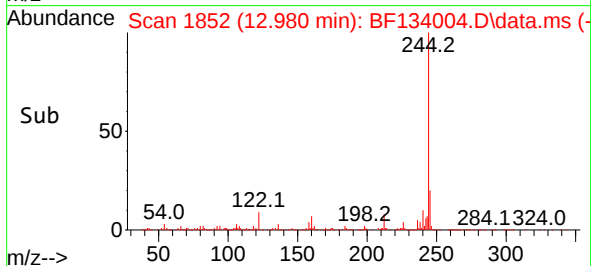


Tgt Ion:244 Resp: 133044
 Ion Ratio Lower Upper
 244 100
 212 7.7 6.0 9.0
 122 9.6 8.3 12.5

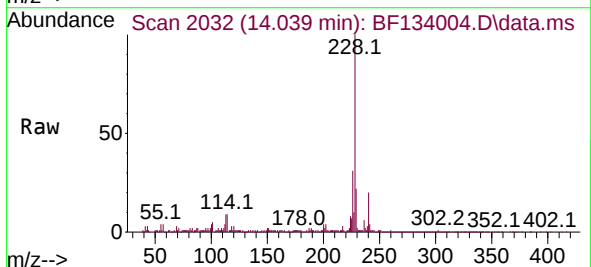
Manual Integrations

APPROVED

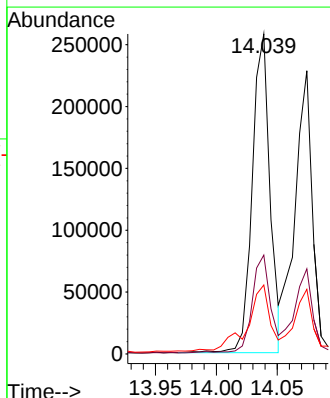
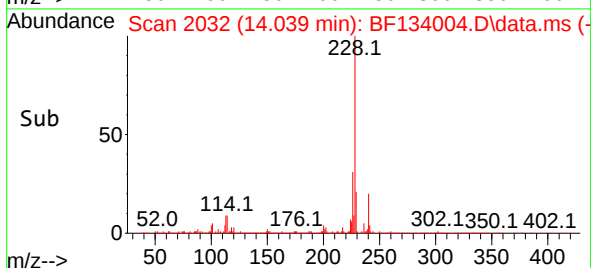
Reviewed By :Yogesh Patel 06/28/2023
 Supervised By :mohammad ahmed 06/29/2023

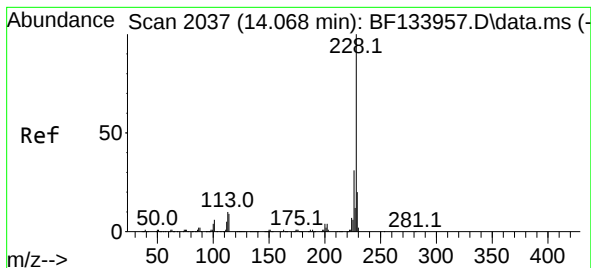


#81
 Benzo(a)anthracene
 Concen: 28.653 ng
 RT: 14.039 min Scan# 2032
 Delta R.T. 0.006 min
 Lab File: BF134004.D
 Acq: 27 Jun 2023 22:22



Tgt Ion:228 Resp: 261184
 Ion Ratio Lower Upper
 228 100
 226 30.9 22.0 33.0
 229 21.6 16.3 24.5





#83

Chrysene

Concen: 26.099 ng

RT: 14.074 min Scan# 2037

Delta R.T. 0.006 min

Lab File: BF134004.D

Acq: 27 Jun 2023 22:22

Instrument :

BNA_F

ClientSampleId :

ORA-1651

Tgt Ion:228 Resp: 23042

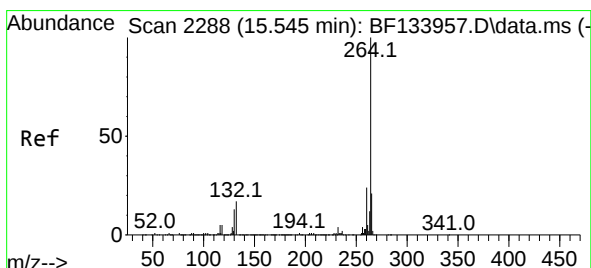
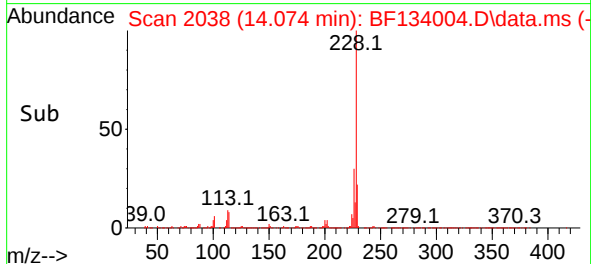
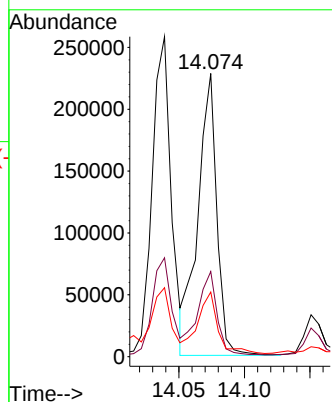
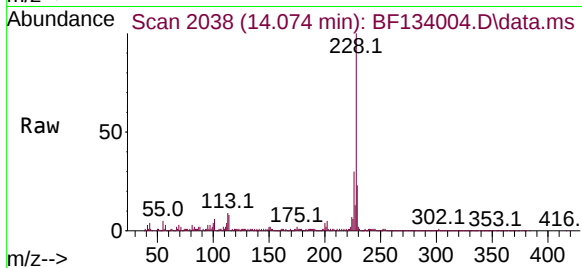
Ion	Ratio	Lower	Upper
228	100		
226	30.0	24.4	36.6
229	22.8	16.1	24.1

Manual Integrations

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Reviewed By :Yogesh Patel 06/28/2023

Supervised By :mohammad ahmed 06/29/2023



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.557 min Scan# 2290

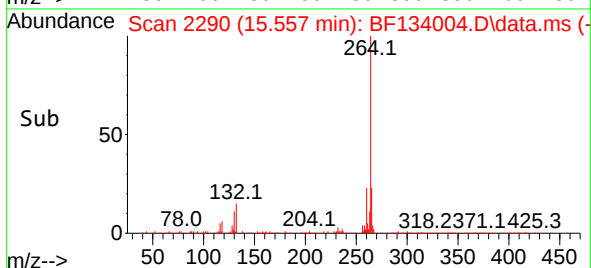
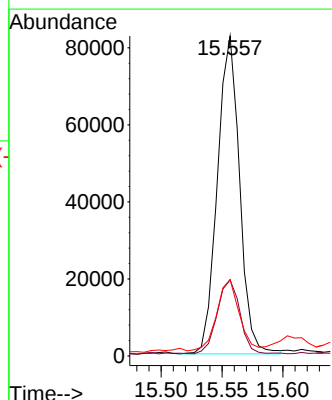
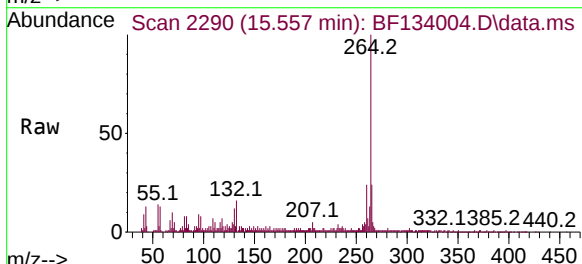
Delta R.T. 0.012 min

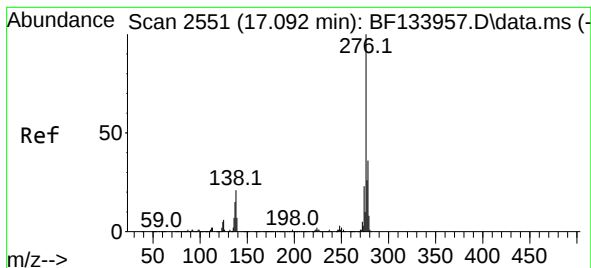
Lab File: BF134004.D

Acq: 27 Jun 2023 22:22

Tgt Ion:264 Resp: 104722

Ion	Ratio	Lower	Upper
264	100		
260	23.8	19.5	29.3
265	23.9	16.6	25.0





#87

Indeno(1,2,3-cd)pyrene

Concen: 13.409 ng

RT: 17.104 min Scan# 2114

Delta R.T. 0.012 min

Lab File: BF134004.D

Acq: 27 Jun 2023 22:22

Instrument :

BNA_F

ClientSampleId :

ORA-1651

Tgt Ion:276 Resp: 97438

Ion Ratio Lower Upper

276 100

138 20.0 18.7 28.1

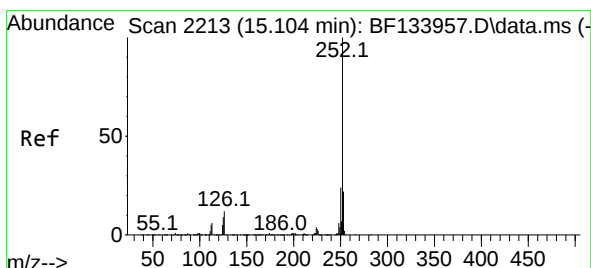
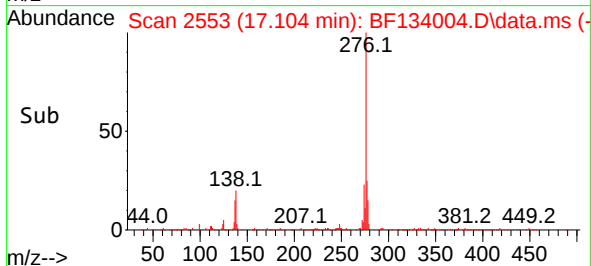
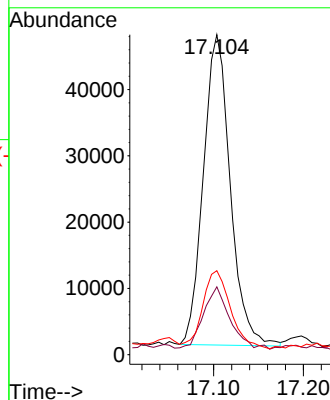
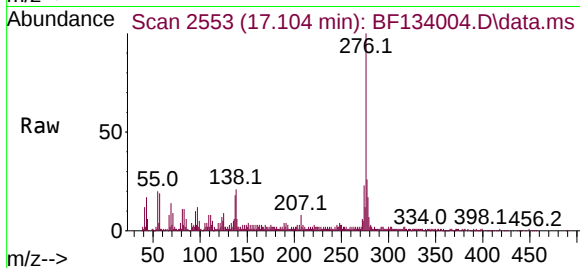
277 26.2 19.9 29.9

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 06/28/2023

Supervised By :mohammad ahmed 06/29/2023



#88

Benzo(b)fluoranthene

Concen: 37.863 ng m

RT: 15.110 min Scan# 2214

Delta R.T. 0.006 min

Lab File: BF134004.D

Acq: 27 Jun 2023 22:22

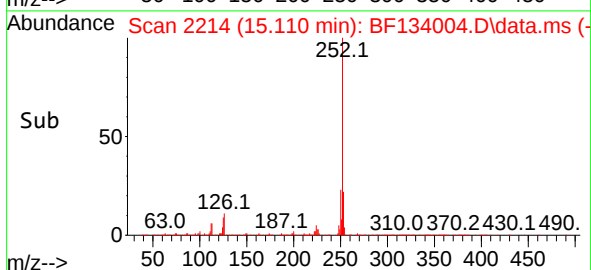
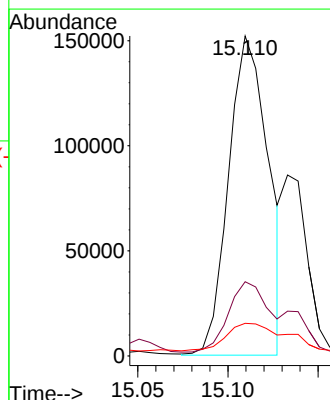
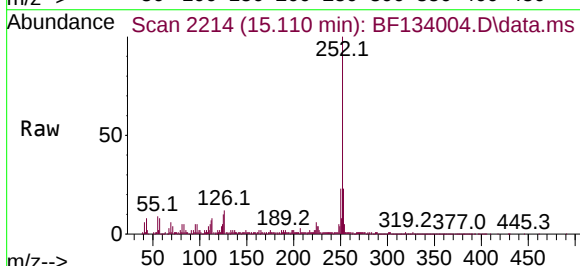
Tgt Ion:252 Resp: 233149

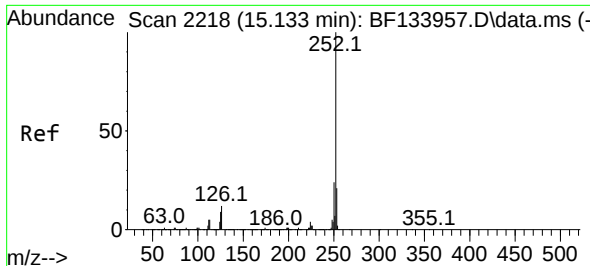
Ion Ratio Lower Upper

252 100

253 23.2 17.4 26.0

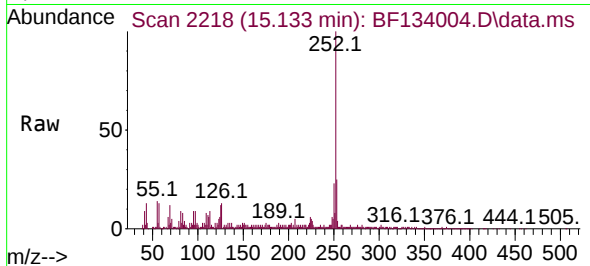
125 10.2 7.1 10.7





#89
Benzo(k)fluoranthene
Concen: 12.834 ng m
RT: 15.133 min Scan# 2218
Delta R.T. 0.000 min
Lab File: BF134004.D
Acq: 27 Jun 2023 22:22

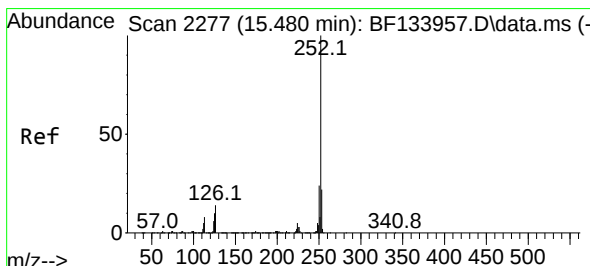
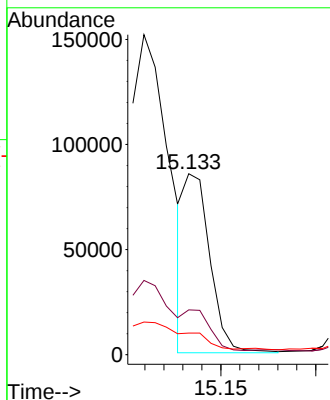
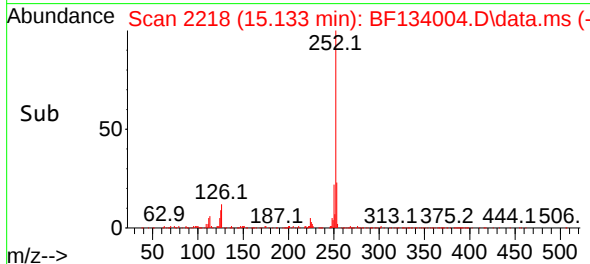
Instrument :
BNA_F
ClientSampleId :
ORA-1651



Tgt Ion:252 Resp: 8046
Ion Ratio Lower Upper
252 100
253 24.8 16.9 25.3
125 12.0 7.4 11.2

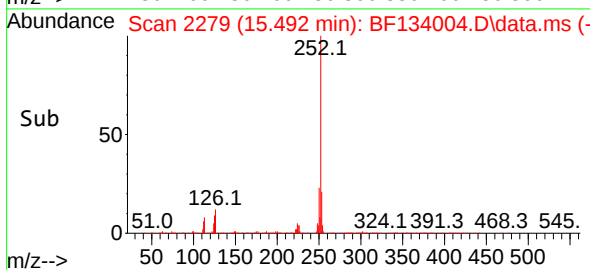
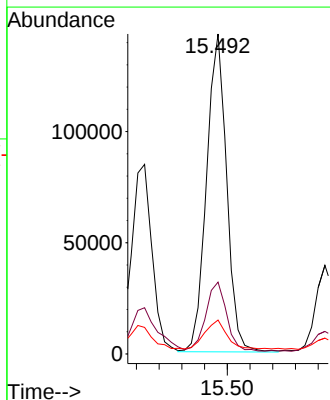
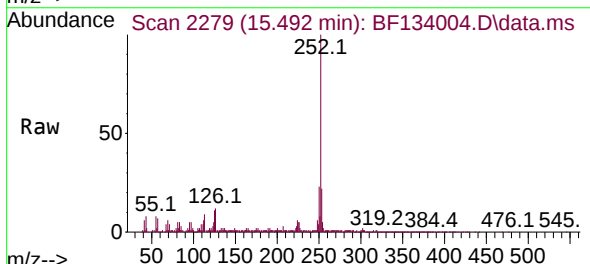
Manual Integrations
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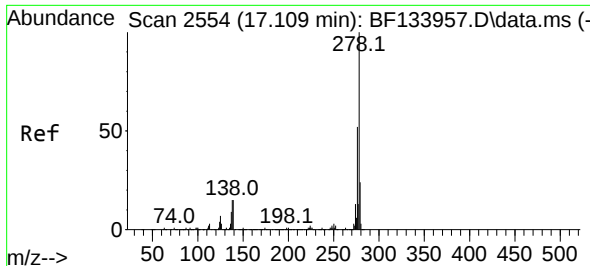
Reviewed By :Yogesh Patel 06/28/2023
Supervised By :mohammad ahmed 06/29/2023



#90
Benzo(a)pyrene
Concen: 29.549 ng
RT: 15.492 min Scan# 2279
Delta R.T. 0.012 min
Lab File: BF134004.D
Acq: 27 Jun 2023 22:22

Tgt Ion:252 Resp: 175947
Ion Ratio Lower Upper
252 100
253 22.4 17.4 26.0
125 10.6 8.4 12.6





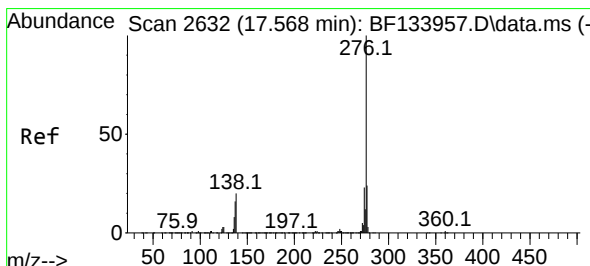
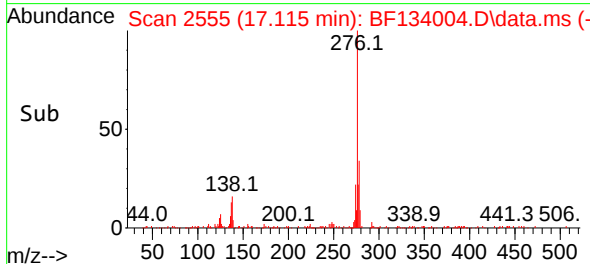
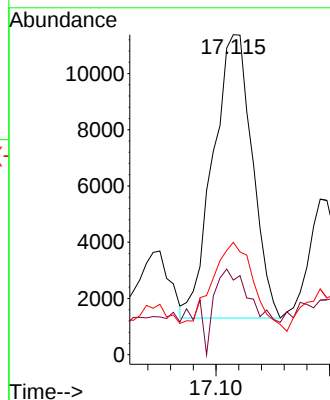
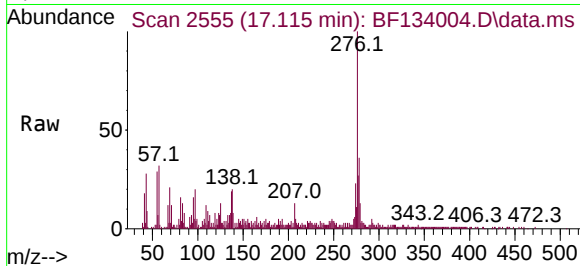
#91
Dibenzo(a,h)anthracene
Concen: 4.075 ng
RT: 17.115 min Scan# 21
Delta R.T. 0.006 min
Lab File: BF134004.D
Acq: 27 Jun 2023 22:22

Instrument :
BNA_F
ClientSampleId :
ORA-1651

Tgt Ion:278 Resp: 2418
Ion Ratio Lower Upper
278 100
139 23.3 12.2 18.4
279 35.1 19.4 29.2

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 06/28/2023
Supervised By :mohammad ahmed 06/29/2023



#92
Benzo(g,h,i)perylene
Concen: 14.900 ng
RT: 17.574 min Scan# 2633
Delta R.T. 0.006 min
Lab File: BF134004.D
Acq: 27 Jun 2023 22:22

Tgt Ion:276 Resp: 91198
Ion Ratio Lower Upper
276 100
277 25.9 19.0 28.6
138 21.9 16.2 24.2

