

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082523\
 Data File : BF134948.D
 Acq On : 25 Aug 2023 19:07
 Operator : CG\JU
 Sample : 04110-14
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP-21(3-4)

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 08/28/2023
 Supervised By :mohammad ahmed 08/28/2023

Quant Time: Aug 26 02:50:45 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082223.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Aug 22 19:33:25 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.786	152	92865	20.000	ng	0.00
21) Naphthalene-d8	8.069	136	353904	20.000	ng	0.00
39) Acenaphthene-d10	9.822	164	164706	20.000	ng	-0.01
64) Phenanthrene-d10	11.316	188	268660	20.000	ng	-0.01
76) Chrysene-d12	13.980	240	166568	20.000	ng	0.00
86) Perylene-d12	15.456	264	146689	20.000	ng	# 0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.410	112	441347	75.787	ng	-0.01
7) Phenol-d6	6.422	99	557698	74.946	ng	-0.02
23) Nitrobenzene-d5	7.351	82	338957	52.776	ng	-0.01
42) 2,4,6-Tribromophenol	10.616	330	124517	64.190	ng	-0.01
45) 2-Fluorobiphenyl	9.145	172	638172	59.897	ng	-0.01
79) Terphenyl-d14	12.915	244	592325	48.910	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.086	128	242501	13.723	ng	100
37) 2-Methylnaphthalene	8.780	142	80967	6.870	ng	99
38) 1-Methylnaphthalene	8.880	142	55916	5.074	ng	99
49) Acenaphthylene	9.686	152	99421	6.648	ng	98
52) Acenaphthene	9.857	154	60232	6.393	ng	98
55) Dibenzofuran	10.027	168	76512	5.578	ng	# 97
58) Fluorene	10.374	166	65301	6.277	ng	96
71) Phenanthrene	11.345	178	719411	51.101	ng	99
72) Anthracene	11.392	178	196660	13.634	ng	100
73) Carbazole	11.551	167	111263	9.361	ng	99
75) Fluoranthene	12.545	202	1233475	92.469	ng	99
78) Pyrene	12.774	202	1118121	63.312	ng	100
81) Benzo(a)anthracene	13.968	228	555660	48.894	ng	94
83) Chrysene	14.004	228	542399	48.372	ng	97
87) Indeno(1,2,3-cd)pyrene	16.945	276	222580	21.228	ng	94
88) Benzo(b)fluoranthene	15.027	252	645422m	77.986	ng	
89) Benzo(k)fluoranthene	15.051	252	165629m	20.380	ng	
90) Benzo(a)pyrene	15.392	252	375655	45.468	ng	97
91) Dibenzo(a,h)anthracene	16.956	278	60624	7.146	ng	# 89
92) Benzo(g,h,i)perylene	17.392	276	196444	22.620	ng	99

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

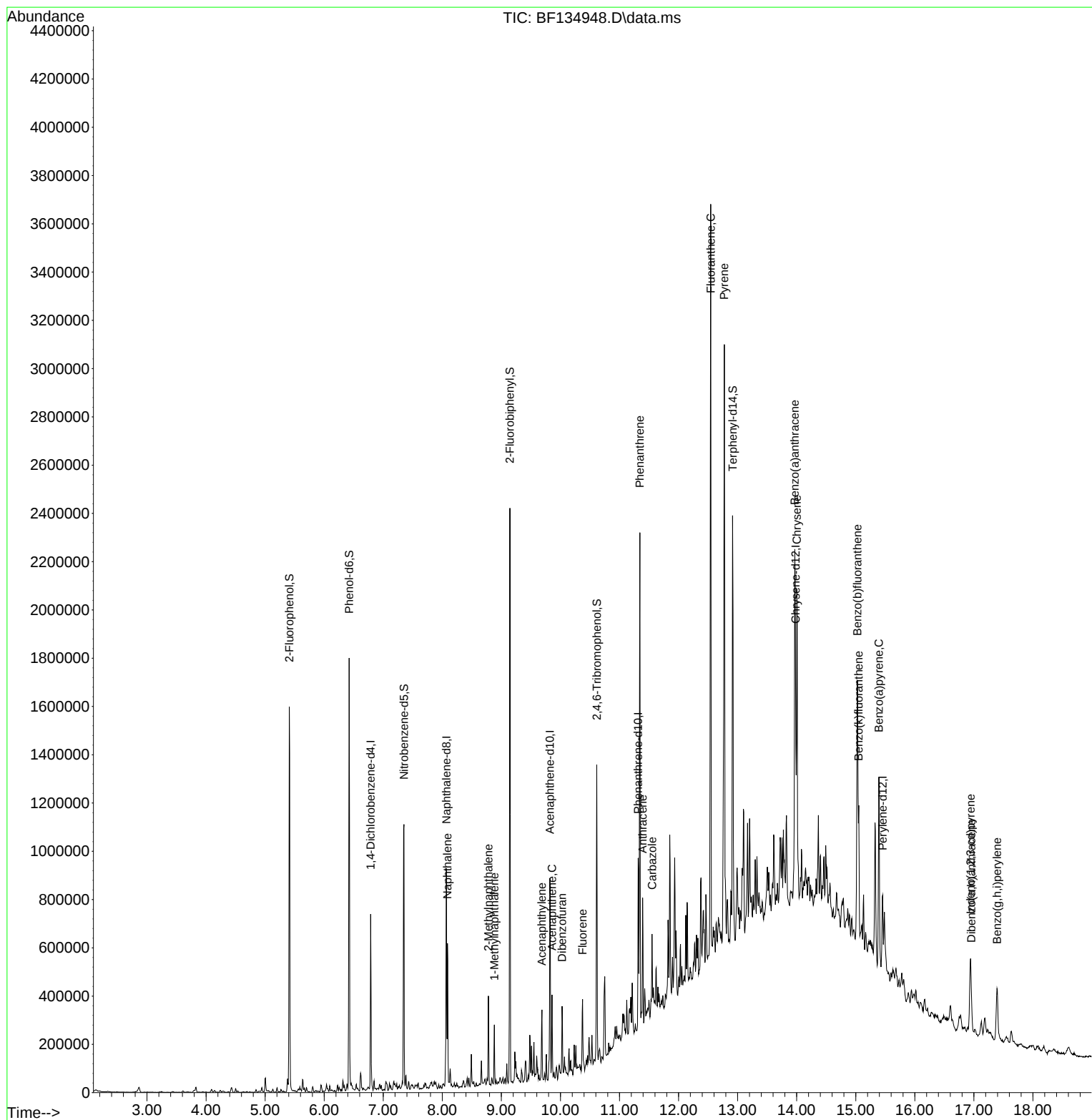
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082523\
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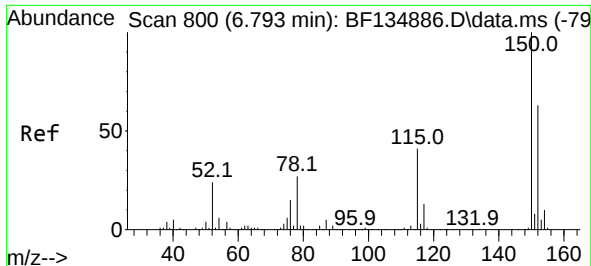
Instrument :
 BNA_F
 ClientSampleId :
 TP-21(3-4)

Quant Time: Aug 26 02:50:45 2023
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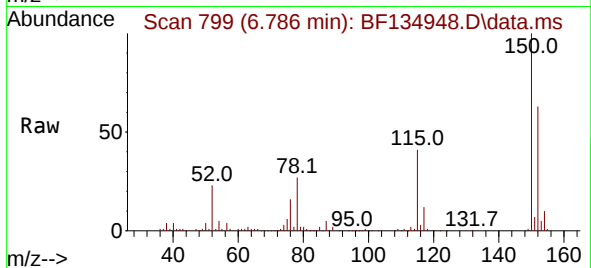
Reviewed By :Yogesh Patel 08/28/2023
 Supervised By :mohammad ahmed 08/28/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.786 min Scan# 79
Delta R.T. -0.007 min
Lab File: BF134948.D
Acq: 25 Aug 2023 19:07

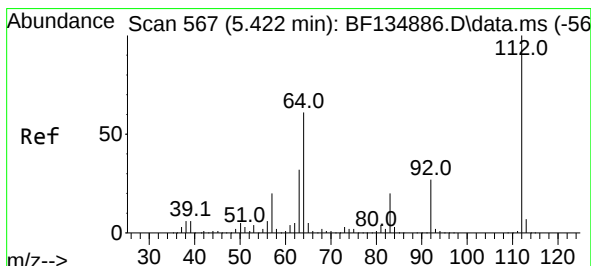
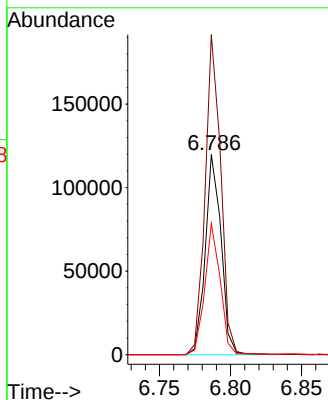
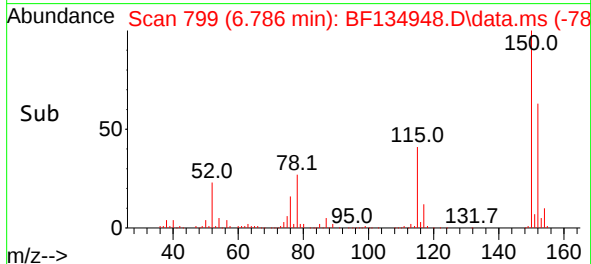
Instrument :
BNA_F
ClientSampleId :
TP-21(3-4)



Tgt Ion:152 Resp: 9286
Ion Ratio Lower Upper
152 100
150 159.9 126.1 189.1
115 65.5 51.1 76.7

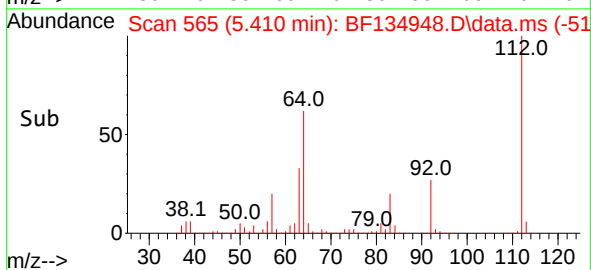
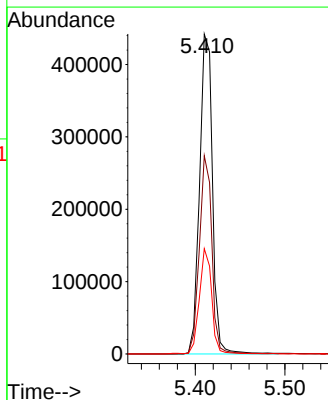
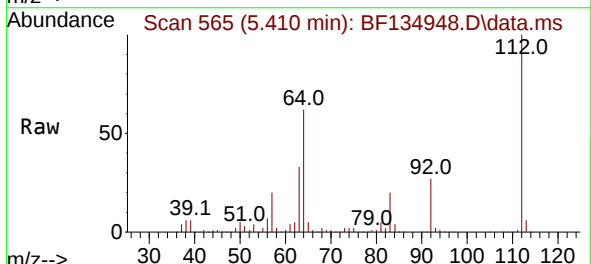
Manual Integrations
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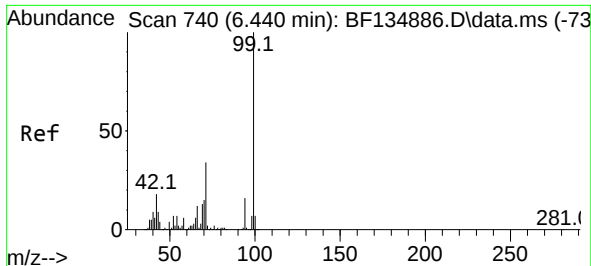
Reviewed By :Yogesh Patel 08/28/2023
Supervised By :mohammad ahmed 08/28/2023



#5
2-Fluorophenol
Concen: 75.787 ng
RT: 5.410 min Scan# 565
Delta R.T. -0.012 min
Lab File: BF134948.D
Acq: 25 Aug 2023 19:07

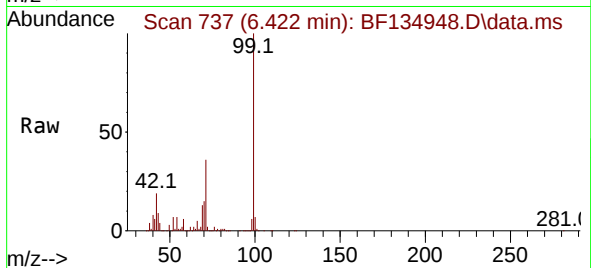
Tgt Ion:112 Resp: 441347
Ion Ratio Lower Upper
112 100
64 62.0 48.6 73.0
63 32.9 25.7 38.5





#7
Phenol-d6
Concen: 74.946 ng
RT: 6.422 min Scan# 71
Delta R.T. -0.018 min
Lab File: BF134948.D
Acq: 25 Aug 2023 19:07

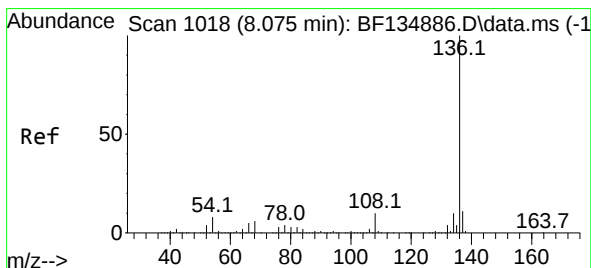
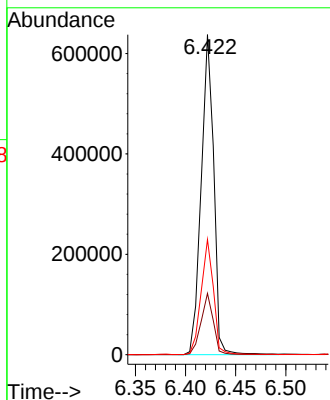
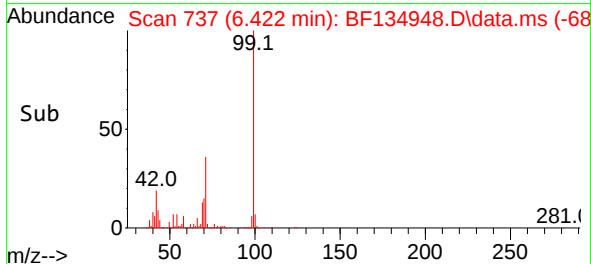
Instrument :
BNA_F
ClientSampleId :
TP-21(3-4)



Tgt Ion: 99 Resp: 557698
Ion Ratio Lower Upper
99 100
42 19.2 14.6 22.0
71 36.0 27.6 41.4

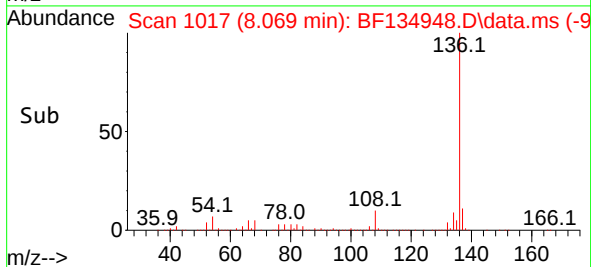
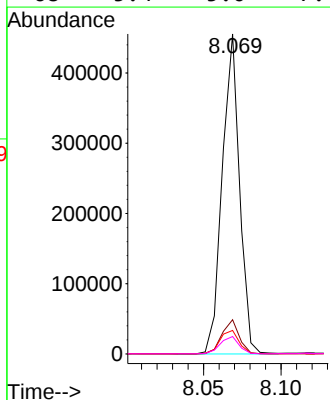
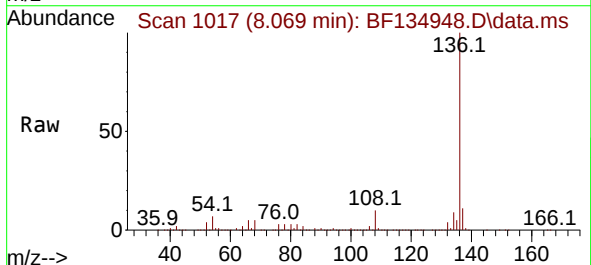
Manual Integrations
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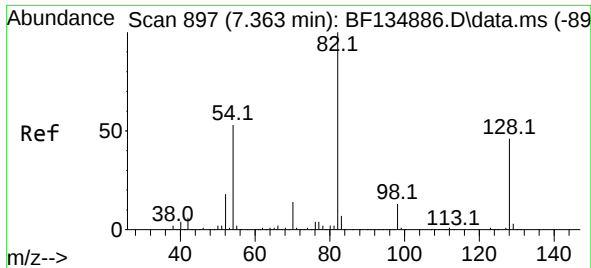
Reviewed By :Yogesh Patel 08/28/2023
Supervised By :mohammad ahmed 08/28/2023



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.069 min Scan# 1017
Delta R.T. -0.006 min
Lab File: BF134948.D
Acq: 25 Aug 2023 19:07

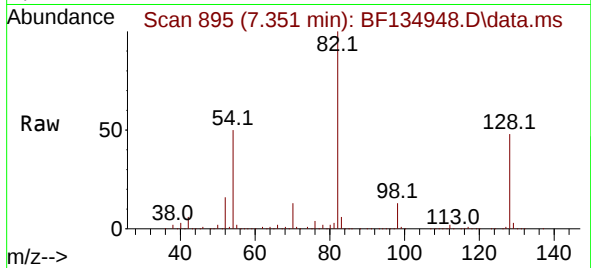
Tgt Ion:136 Resp: 353904
Ion Ratio Lower Upper
136 100
137 10.7 8.9 13.3
54 7.4 6.6 9.8
68 5.4 5.0 7.4





#23
Nitrobenzene-d5
Concen: 52.776 ng
RT: 7.351 min Scan# 895
Delta R.T. -0.012 min
Lab File: BF134948.D
Acq: 25 Aug 2023 19:07

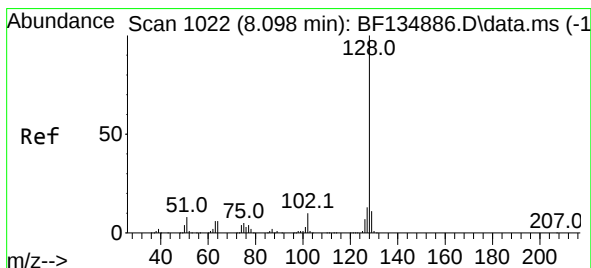
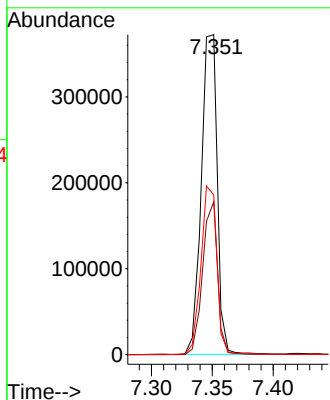
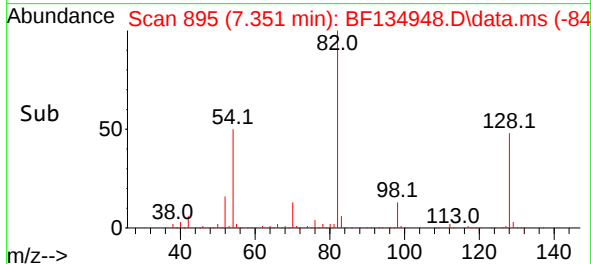
Instrument :
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ClientSampleId :
TP-21(3-4)



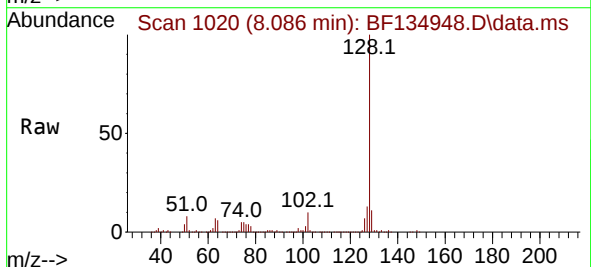
Tgt Ion: 82 Resp: 33895
Ion Ratio Lower Upper
82 100
128 47.7 36.6 54.8
54 50.0 42.6 63.8

Manual Integrations
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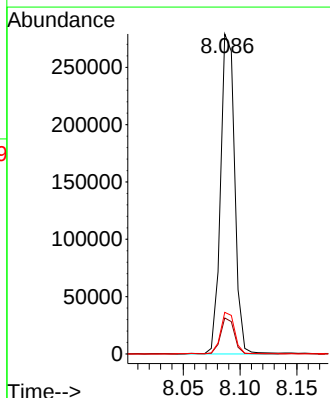
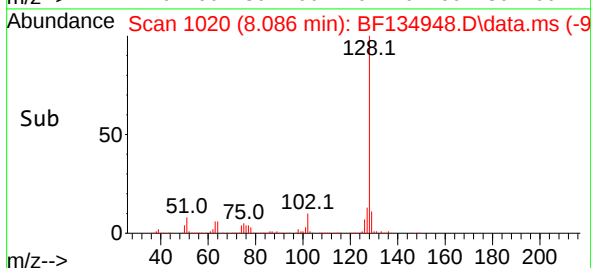
Reviewed By :Yogesh Patel 08/28/2023
Supervised By :mohammad ahmed 08/28/2023

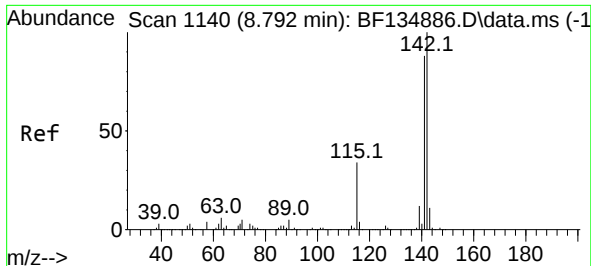


#31
Naphthalene
Concen: 13.723 ng
RT: 8.086 min Scan# 1020
Delta R.T. -0.012 min
Lab File: BF134948.D
Acq: 25 Aug 2023 19:07



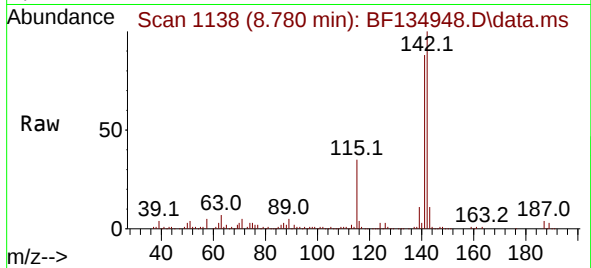
Tgt Ion:128 Resp: 242501
Ion Ratio Lower Upper
128 100
129 11.2 9.0 13.4
127 13.0 10.6 16.0





#37
2-Methylnaphthalene
Concen: 6.870 ng
RT: 8.780 min Scan# 1138
Delta R.T. -0.012 min
Lab File: BF134948.D
Acq: 25 Aug 2023 19:07

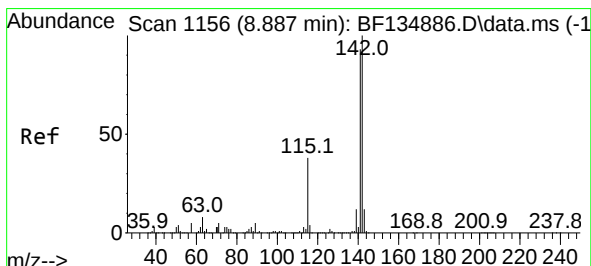
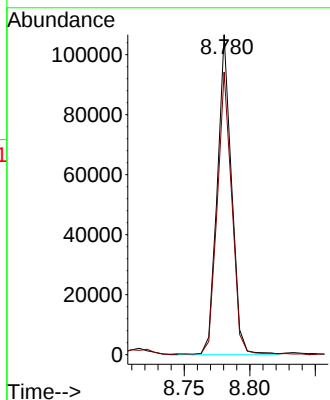
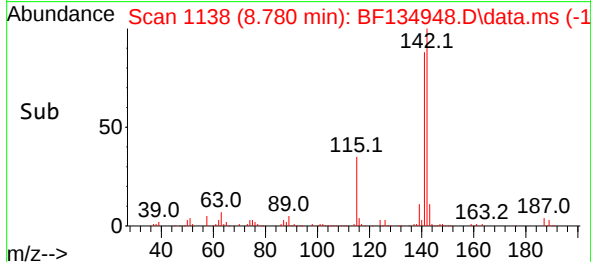
Instrument :
BNA_F
ClientSampleId :
TP-21(3-4)



Tgt Ion:142 Resp: 8096
Ion Ratio Lower Upper
142 100
141 88.3 70.2 105.2

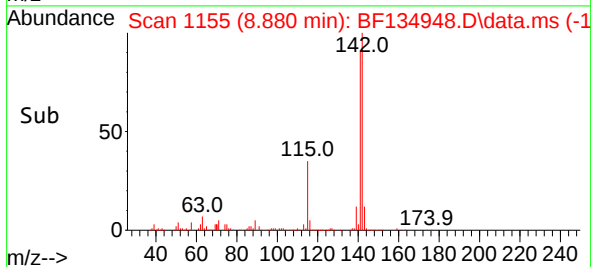
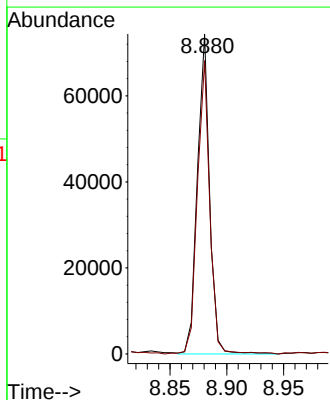
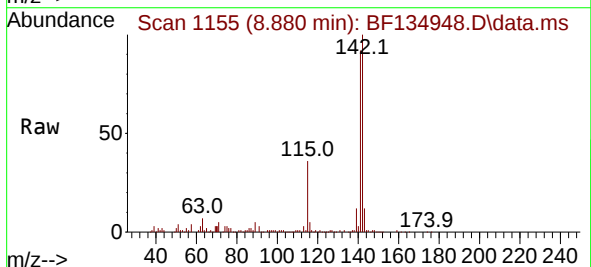
Manual Integrations
APPROVED

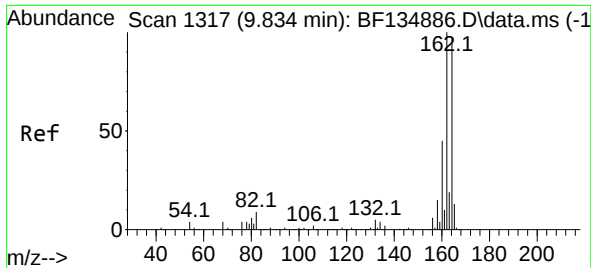
Reviewed By :Yogesh Patel 08/28/2023
Supervised By :mohammad ahmed 08/28/2023



#38
1-Methylnaphthalene
Concen: 5.074 ng
RT: 8.880 min Scan# 1155
Delta R.T. -0.006 min
Lab File: BF134948.D
Acq: 25 Aug 2023 19:07

Tgt Ion:142 Resp: 55916
Ion Ratio Lower Upper
142 100
141 91.6 74.1 111.1





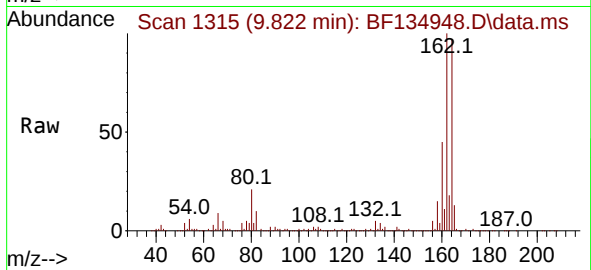
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.822 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF134948.D
Acq: 25 Aug 2023 19:07

Instrument :

BNA_F

ClientSampleId :

TP-21(3-4)

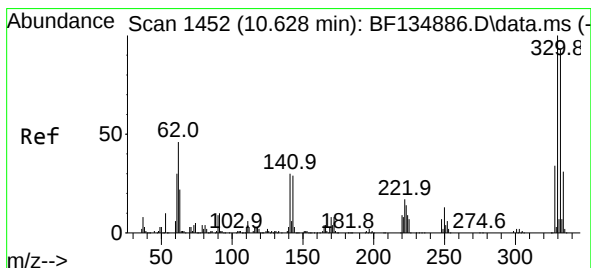
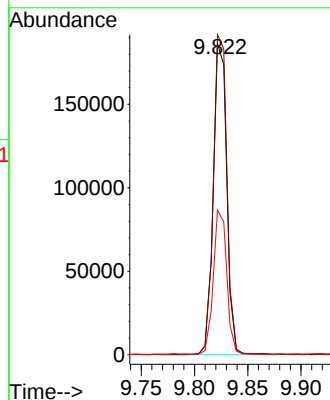
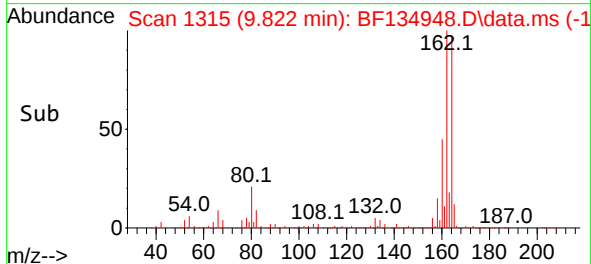


Tgt Ion:164 Resp: 164700
Ion Ratio Lower Upper
164 100
162 102.9 82.6 123.8
160 46.4 37.0 55.4

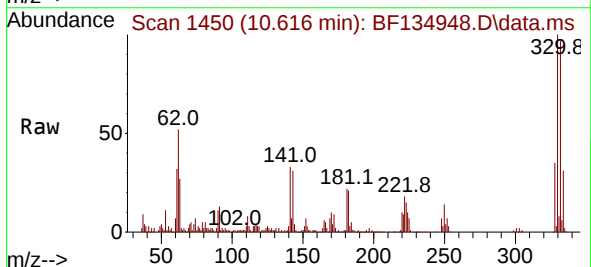
Manual Integrations

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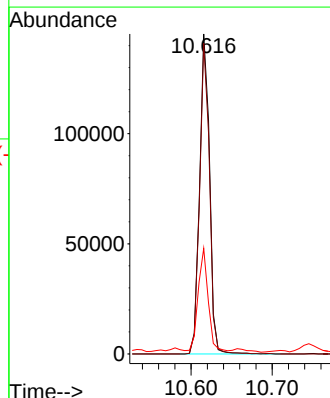
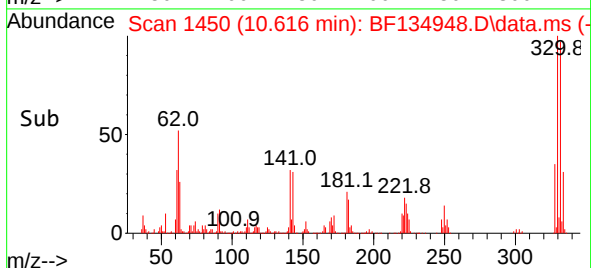
Reviewed By :Yogesh Patel 08/28/2023
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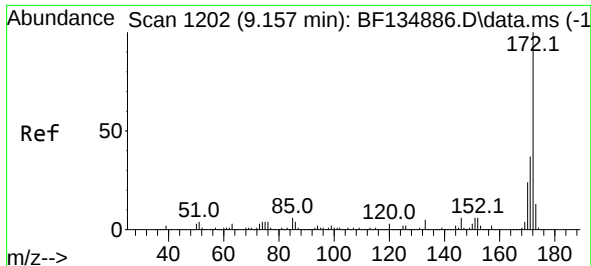


#42
2,4,6-Tribromophenol
Concen: 64.190 ng
RT: 10.616 min Scan# 1450
Delta R.T. -0.012 min
Lab File: BF134948.D
Acq: 25 Aug 2023 19:07



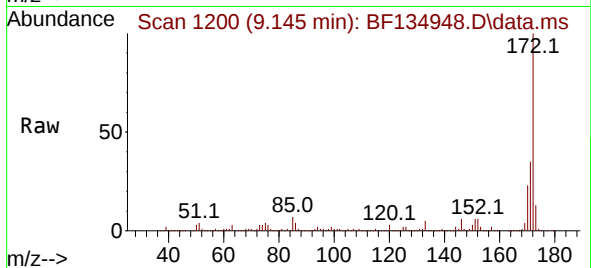
Tgt Ion:330 Resp: 124517
Ion Ratio Lower Upper
330 100
332 95.9 76.3 114.5
141 33.2 23.4 35.2





#45
2-Fluorobiphenyl
Concen: 59.897 ng
RT: 9.145 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF134948.D
Acq: 25 Aug 2023 19:07

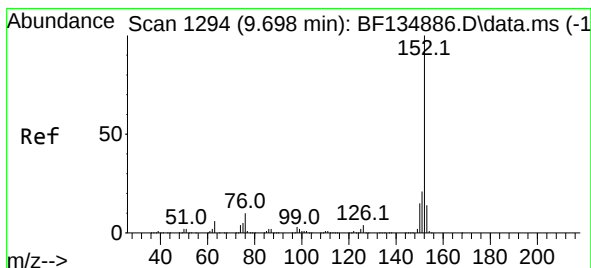
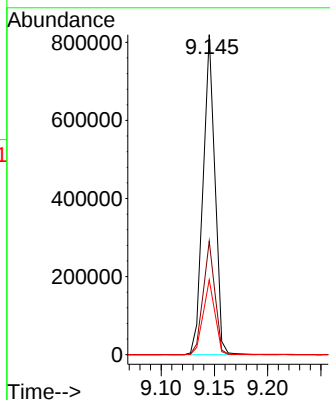
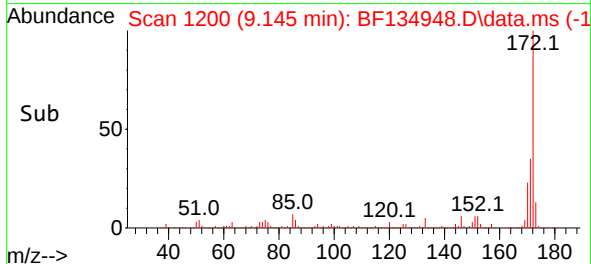
Instrument :
BNA_F
ClientSampleId :
TP-21(3-4)



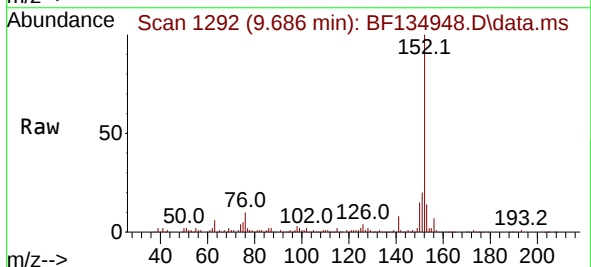
Tgt Ion:172 Resp: 638172
Ion Ratio Lower Upper
172 100
171 35.5 29.4 44.0
170 23.4 19.6 29.4

Manual Integrations
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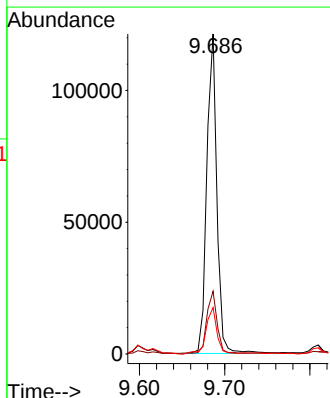
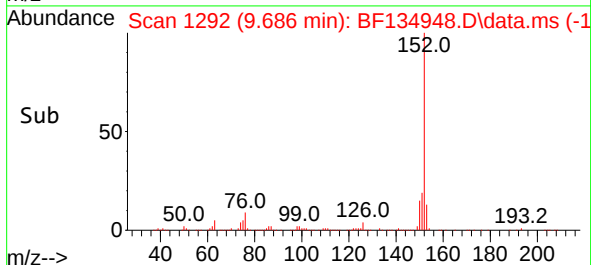
Reviewed By :Yogesh Patel 08/28/2023
Supervised By :mohammad ahmed 08/28/2023

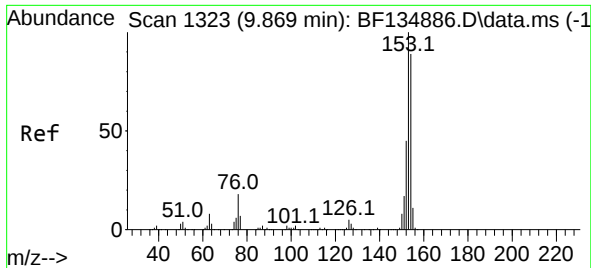


#49
Acenaphthylene
Concen: 6.648 ng
RT: 9.686 min Scan# 1292
Delta R.T. -0.012 min
Lab File: BF134948.D
Acq: 25 Aug 2023 19:07



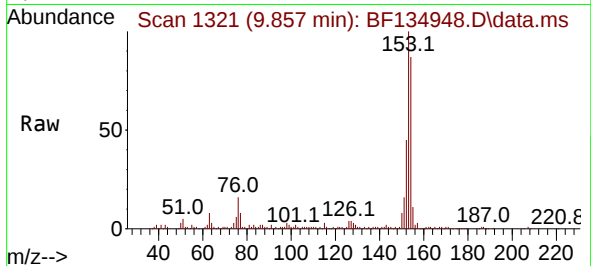
Tgt Ion:152 Resp: 99421
Ion Ratio Lower Upper
152 100
151 19.6 16.5 24.7
153 14.5 11.3 16.9





#52
Acenaphthene
Concen: 6.393 ng
RT: 9.857 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF134948.D
Acq: 25 Aug 2023 19:07

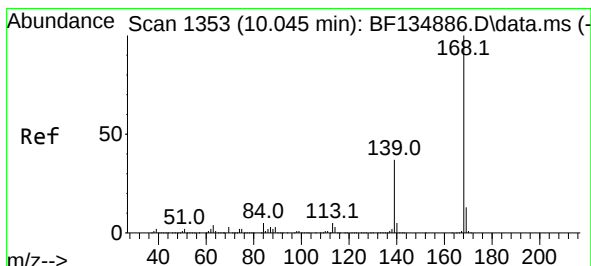
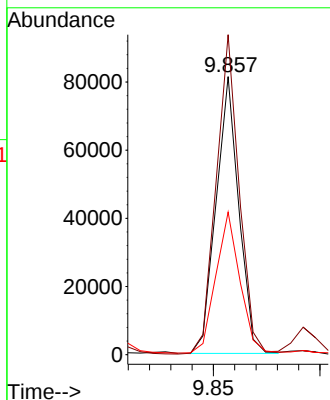
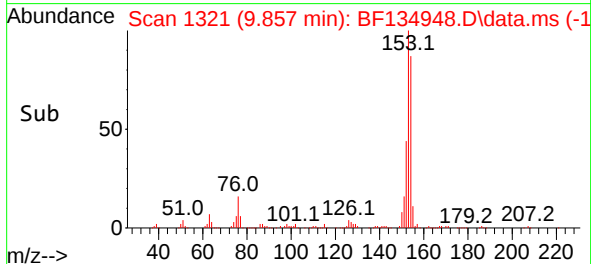
Instrument :
BNA_F
ClientSampleId :
TP-21(3-4)



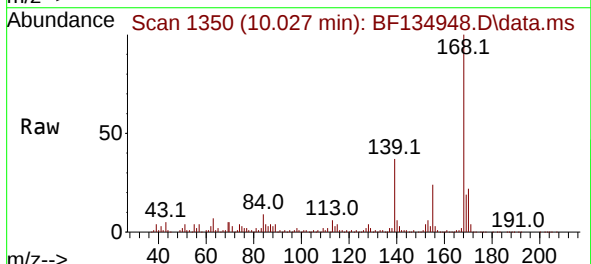
Tgt Ion:154 Resp: 6023
Ion Ratio Lower Upper
154 100
153 115.1 89.6 134.4
152 51.3 40.5 60.7

Manual Integrations
APPROVED

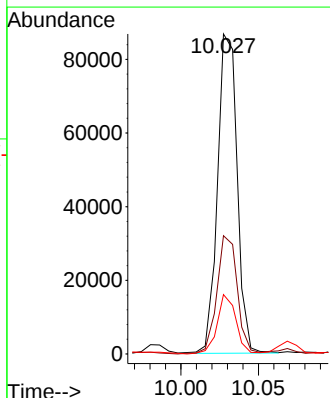
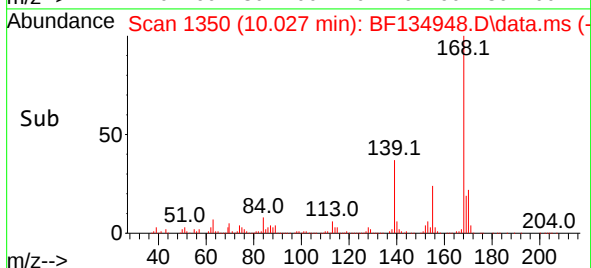
Reviewed By :Yogesh Patel 08/28/2023
Supervised By :mohammad ahmed 08/28/2023

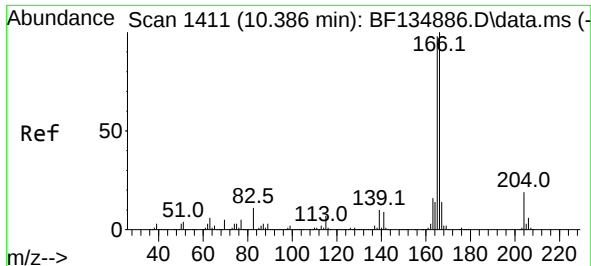


#55
Dibenzofuran
Concen: 5.578 ng
RT: 10.027 min Scan# 1350
Delta R.T. -0.018 min
Lab File: BF134948.D
Acq: 25 Aug 2023 19:07



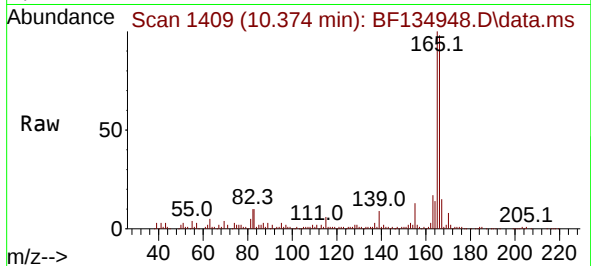
Tgt Ion:168 Resp: 76512
Ion Ratio Lower Upper
168 100
139 36.9 29.5 44.3
169 18.6 10.7 16.1#





#58
Fluorene
Concen: 6.277 ng
RT: 10.374 min Scan# 1411
Delta R.T. -0.012 min
Lab File: BF134948.D
Acq: 25 Aug 2023 19:07

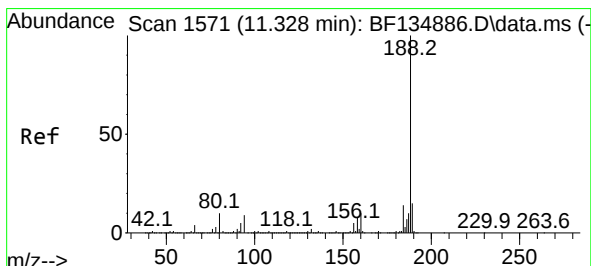
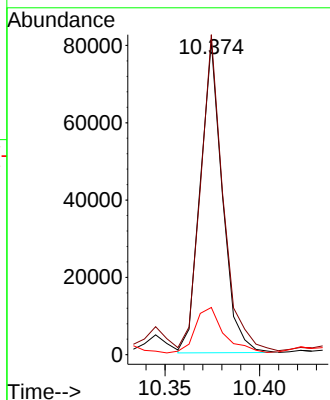
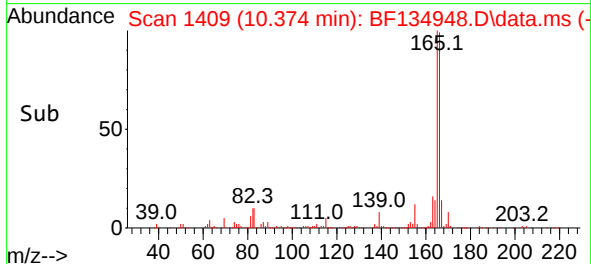
Instrument :
BNA_F
ClientSampleId :
TP-21(3-4)



Tgt Ion:166 Resp: 6530
Ion Ratio Lower Upper
166 100
165 102.2 78.5 117.7
167 15.1 11.0 16.6

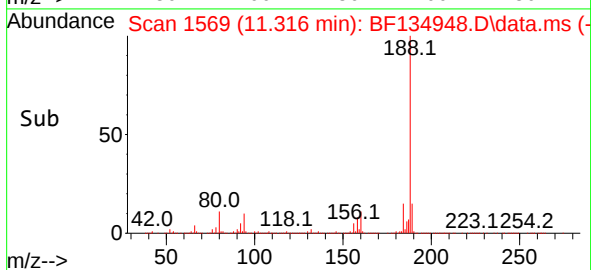
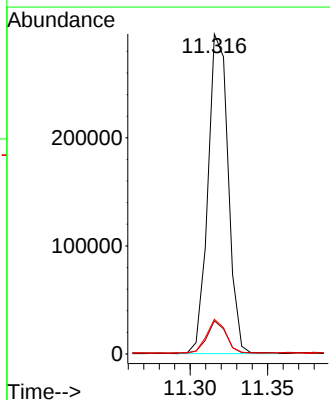
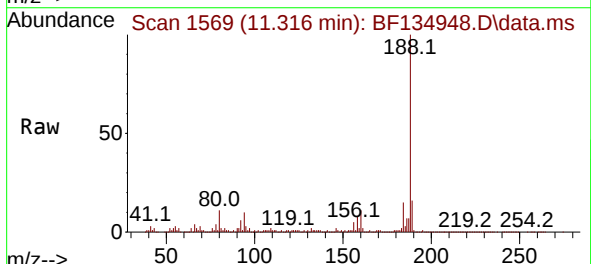
Manual Integrations
APPROVED

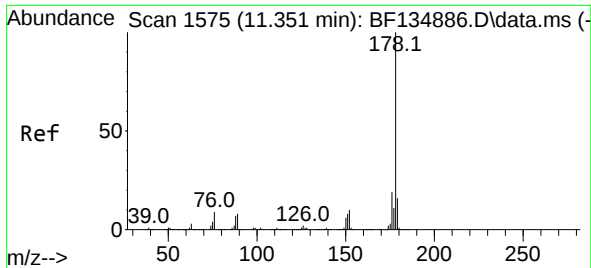
Reviewed By :Yogesh Patel 08/28/2023
Supervised By :mohammad ahmed 08/28/2023



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.316 min Scan# 1569
Delta R.T. -0.012 min
Lab File: BF134948.D
Acq: 25 Aug 2023 19:07

Tgt Ion:188 Resp: 268660
Ion Ratio Lower Upper
188 100
94 10.3 7.5 11.3
80 10.9 7.8 11.6





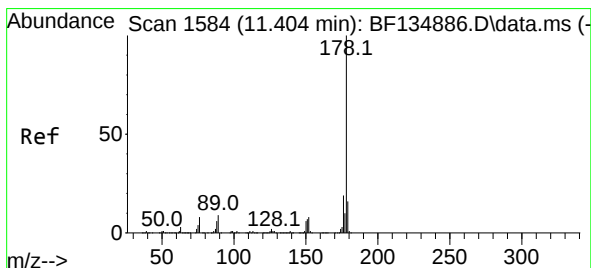
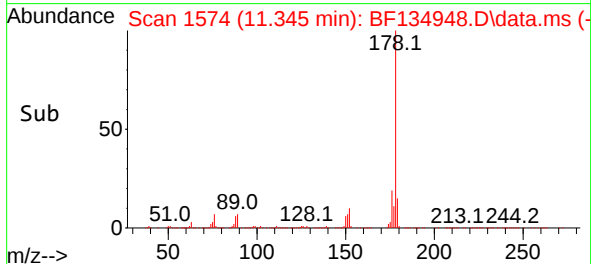
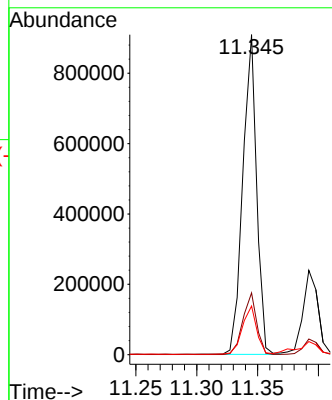
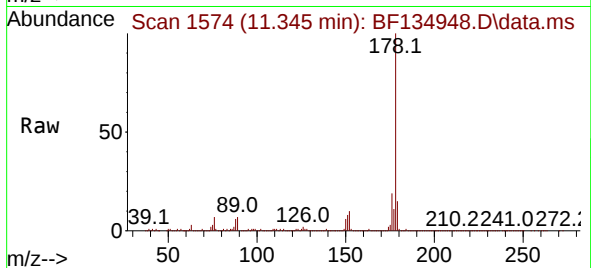
#71
Phenanthrene
Concen: 51.101 ng
RT: 11.345 min Scan# 1575
Delta R.T. -0.006 min
Lab File: BF134948.D
Acq: 25 Aug 2023 19:07

Instrument :
BNA_F
ClientSampleId :
TP-21(3-4)

Tgt Ion:178 Resp: 71941
Ion Ratio Lower Upper
178 100
176 19.3 15.5 23.3
179 15.2 12.6 19.0

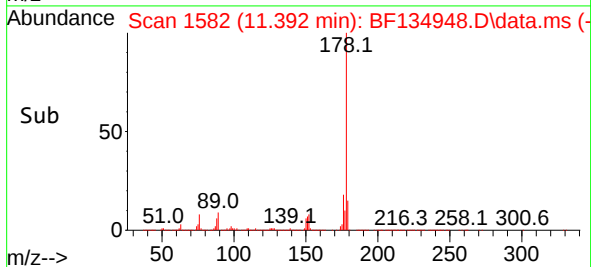
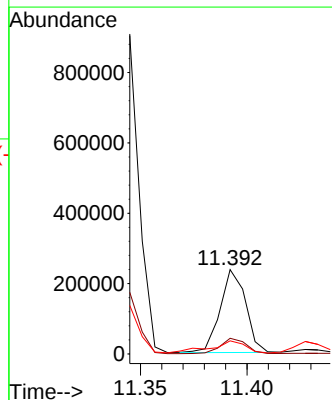
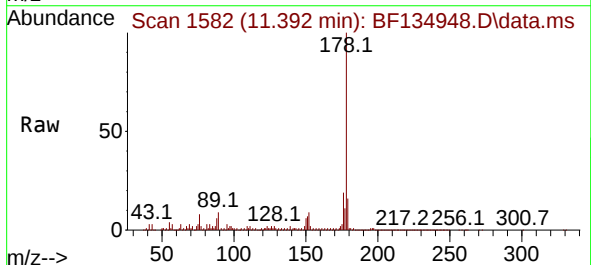
Manual Integrations
APPROVED

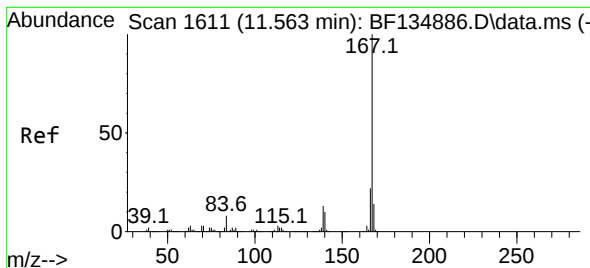
Reviewed By :Yogesh Patel 08/28/2023
Supervised By :mohammad ahmed 08/28/2023



#72
Anthracene
Concen: 13.634 ng
RT: 11.392 min Scan# 1582
Delta R.T. -0.012 min
Lab File: BF134948.D
Acq: 25 Aug 2023 19:07

Tgt Ion:178 Resp: 196660
Ion Ratio Lower Upper
178 100
176 18.5 15.0 22.6
179 15.6 12.5 18.7





#73

Carbazole

Concen: 9.361 ng

RT: 11.551 min Scan# 1609

Delta R.T. -0.012 min

Lab File: BF134948.D

Acq: 25 Aug 2023 19:07

Instrument :

BNA_F

ClientSampleId :

TP-21(3-4)

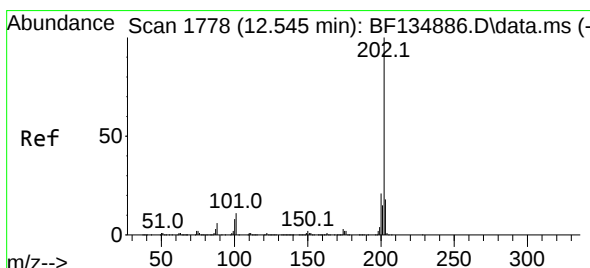
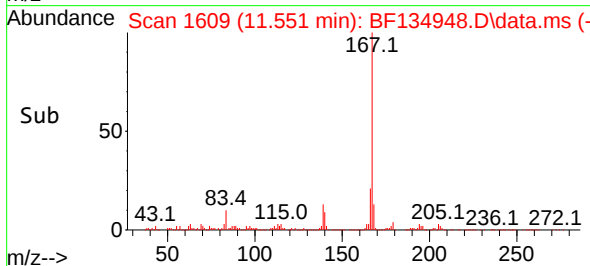
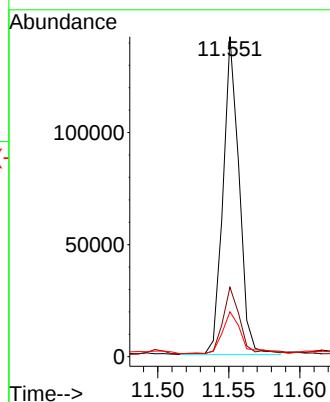
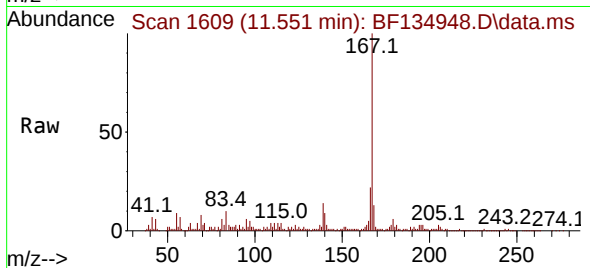
Tgt Ion:	167	Resp:	11126
Ion Ratio	Lower	Upper	
167	100		
166	21.7	17.4	26.2
139	14.1	10.4	15.6

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/28/2023

Supervised By :mohammad ahmed 08/28/2023



#75

Fluoranthene

Concen: 92.469 ng

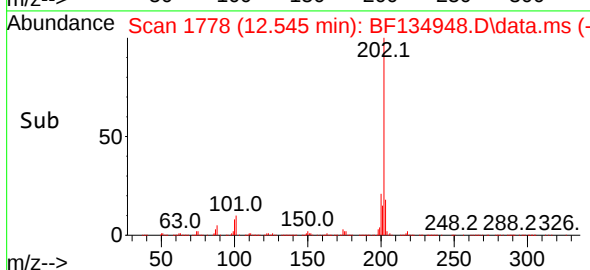
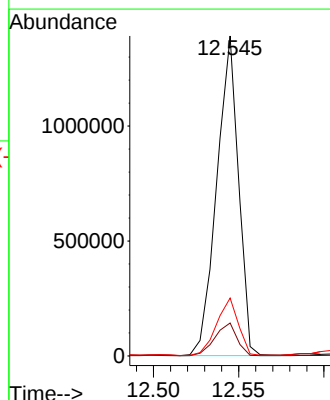
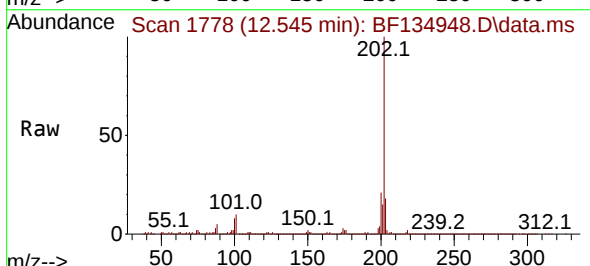
RT: 12.545 min Scan# 1778

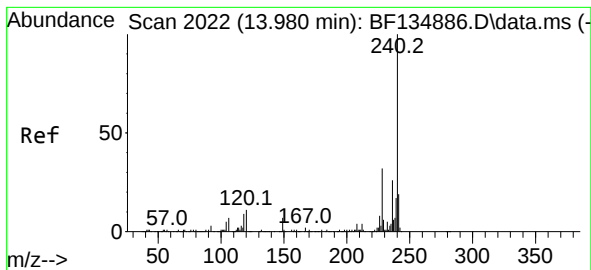
Delta R.T. -0.000 min

Lab File: BF134948.D

Acq: 25 Aug 2023 19:07

Tgt Ion:	202	Resp:	1233475
Ion Ratio	Lower	Upper	
202	100		
101	10.3	0.0	30.5
203	18.1	0.0	37.8





#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.980 min Scan# 2022

Delta R.T. -0.000 min

Lab File: BF134948.D

Acq: 25 Aug 2023 19:07

Instrument :

BNA_F

ClientSampleId :

TP-21(3-4)

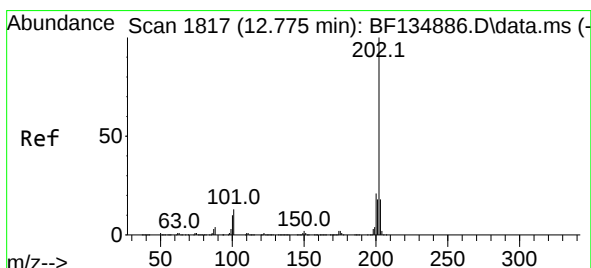
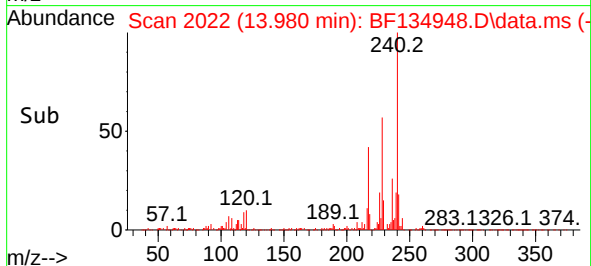
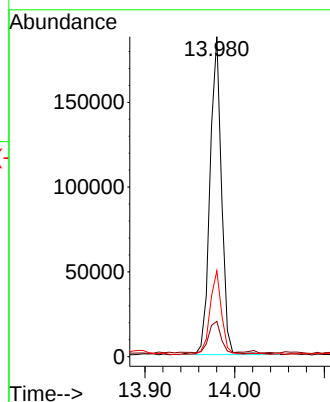
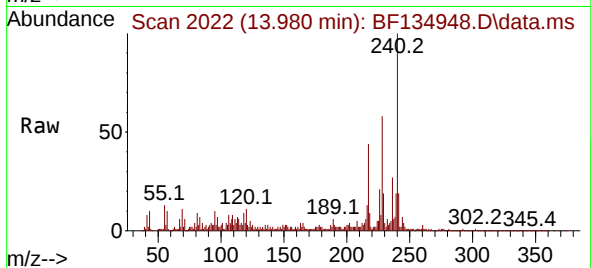
Tgt Ion:240 Resp: 166568
 Ion Ratio Lower Upper
 240 100
 120 11.1 8.6 12.8
 236 26.8 20.6 31.0

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/28/2023

Supervised By :mohammad ahmed 08/28/2023



#78

Pyrene

Concen: 63.312 ng

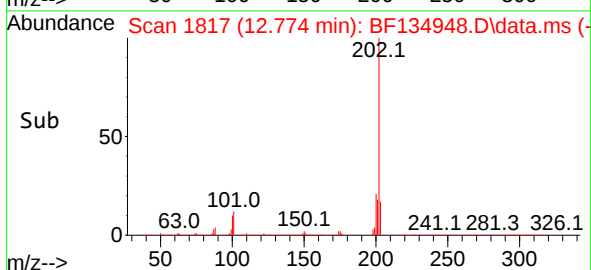
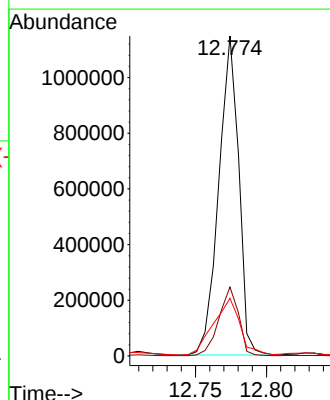
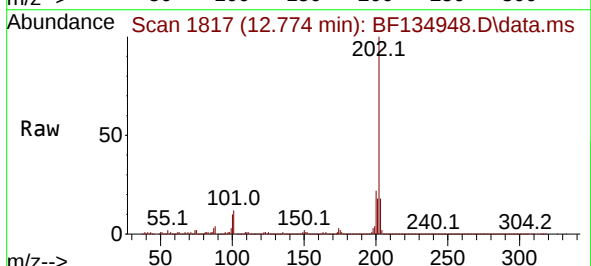
RT: 12.774 min Scan# 1817

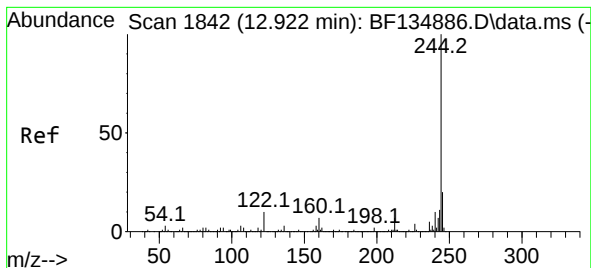
Delta R.T. -0.000 min

Lab File: BF134948.D

Acq: 25 Aug 2023 19:07

Tgt Ion:202 Resp: 1118121
 Ion Ratio Lower Upper
 202 100
 200 21.5 17.1 25.7
 203 18.0 14.2 21.2





#79

Terphenyl-d14

Concen: 48.910 ng

RT: 12.915 min Scan# 1841

Delta R.T. -0.007 min

Lab File: BF134948.D

Acq: 25 Aug 2023 19:07

Instrument :

BNA_F

ClientSampleId :

TP-21(3-4)

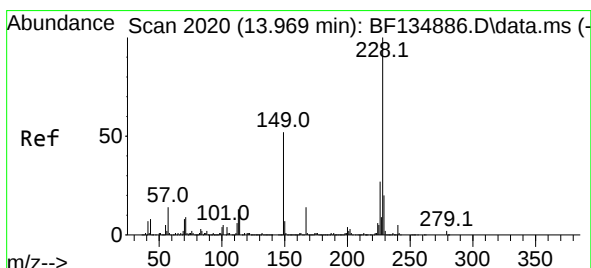
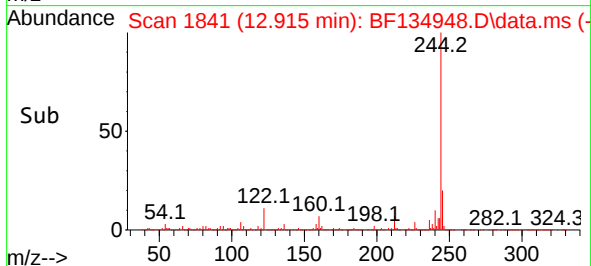
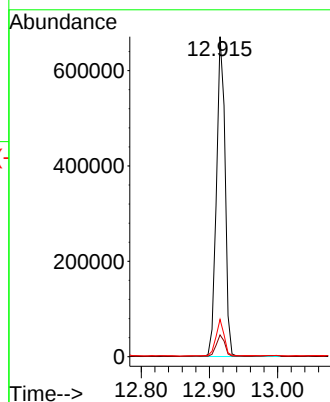
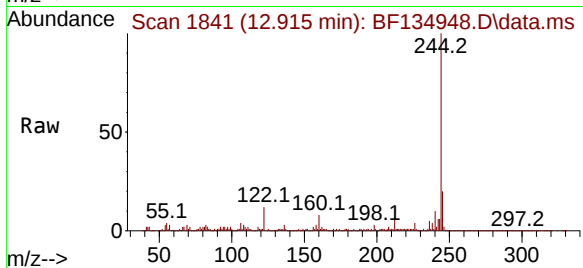
Tgt Ion:244 Resp: 592325
 Ion Ratio Lower Upper
 244 100
 212 6.8 5.4 8.0
 122 11.6 8.2 12.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/28/2023

Supervised By :mohammad ahmed 08/28/2023



#81

Benzo(a)anthracene

Concen: 48.894 ng

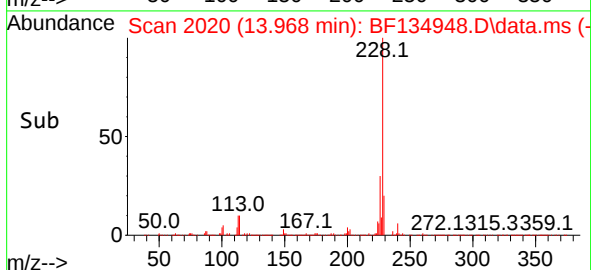
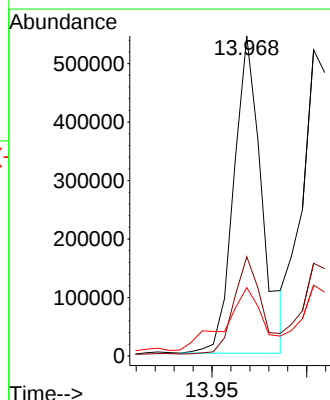
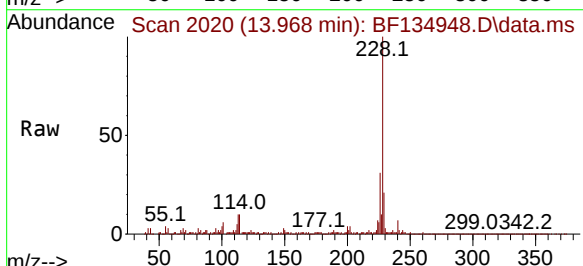
RT: 13.968 min Scan# 2020

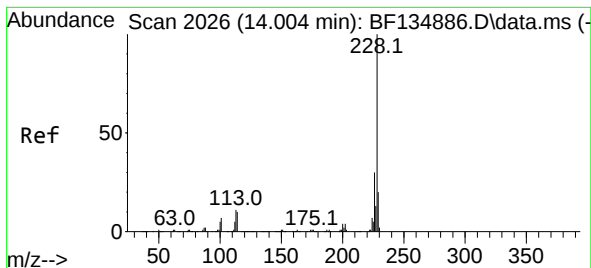
Delta R.T. -0.000 min

Lab File: BF134948.D

Acq: 25 Aug 2023 19:07

Tgt Ion:228 Resp: 555660
 Ion Ratio Lower Upper
 228 100
 226 31.0 21.8 32.6
 229 21.4 15.6 23.4





#83

Chrysene

Concen: 48.372 ng

RT: 14.004 min Scan# 2026

Delta R.T. -0.000 min

Lab File: BF134948.D

Acq: 25 Aug 2023 19:07

Instrument :

BNA_F

ClientSampleId :

TP-21(3-4)

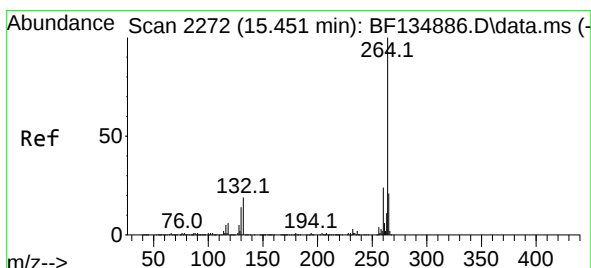
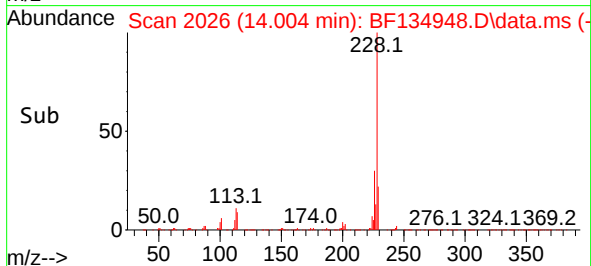
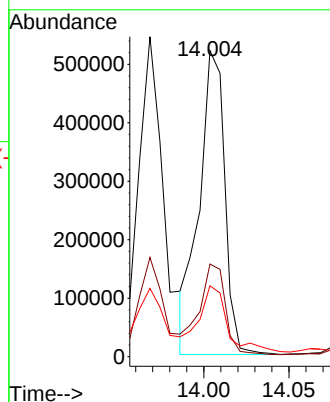
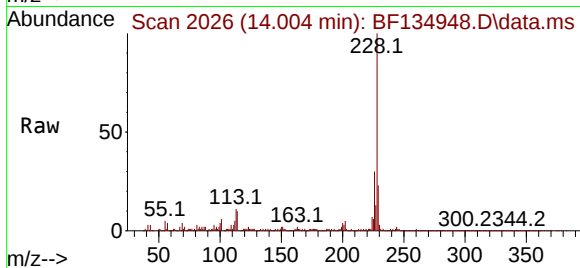
Tgt Ion:228	Resp: 54239
Ion Ratio	Lower Upper
228 100	
226 30.3	24.2 36.2
229 23.1	16.0 24.0

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/28/2023

Supervised By :mohammad ahmed 08/28/2023



#86

Perylene-d12

Concen: 20.000 ng

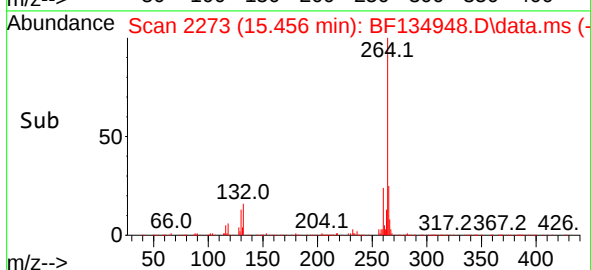
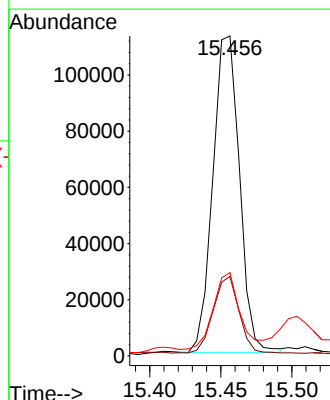
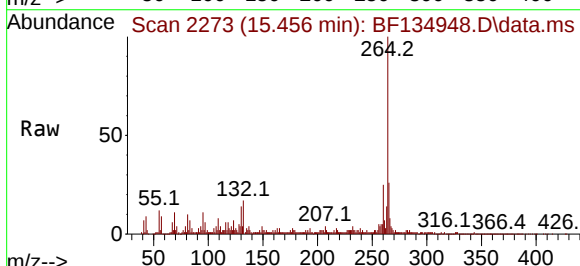
RT: 15.456 min Scan# 2273

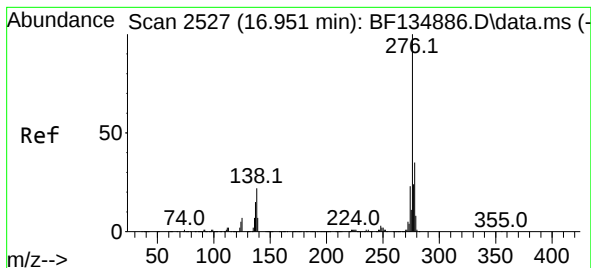
Delta R.T. 0.006 min

Lab File: BF134948.D

Acq: 25 Aug 2023 19:07

Tgt Ion:264	Resp: 146689
Ion Ratio	Lower Upper
264 100	
260 24.9	19.0 28.6
265 26.1	17.1 25.7





#87

Indeno(1,2,3-cd)pyrene

Concen: 21.228 ng

RT: 16.945 min Scan# 21

Delta R.T. -0.006 min

Lab File: BF134948.D

Acq: 25 Aug 2023 19:07

Instrument :

BNA_F

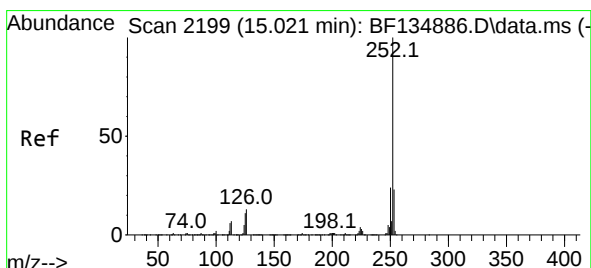
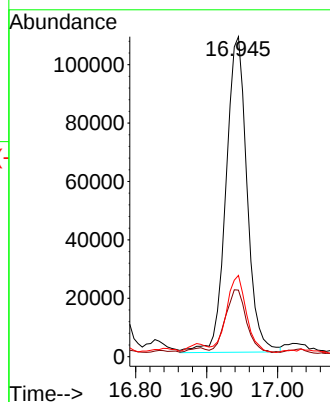
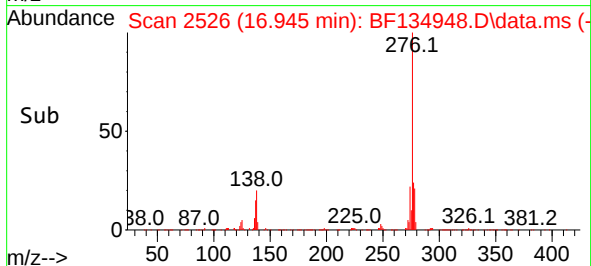
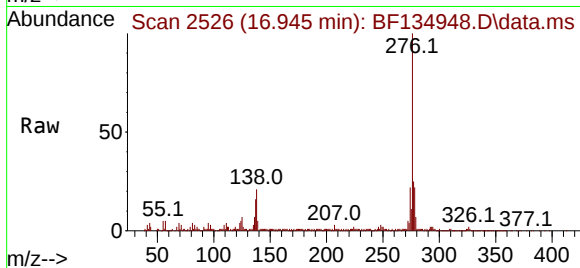
ClientSampleId :

TP-21(3-4)

Tgt Ion:276 Resp: 222580
 Ion Ratio Lower Upper
 276 100
 138 20.1 19.7 29.5
 277 23.1 20.1 30.1

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 08/28/2023
 Supervised By :mohammad ahmed 08/28/2023



#88

Benzo(b)fluoranthene

Concen: 77.986 ng m

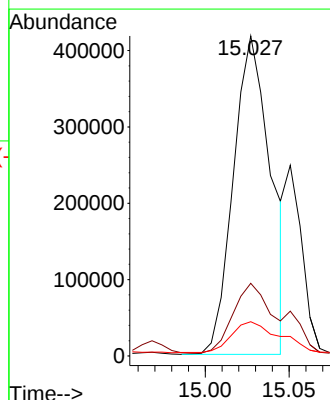
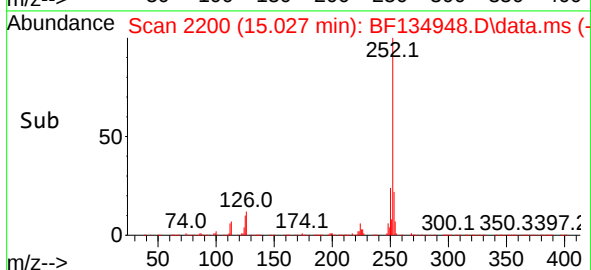
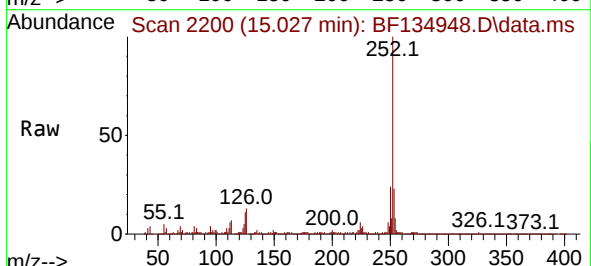
RT: 15.027 min Scan# 2200

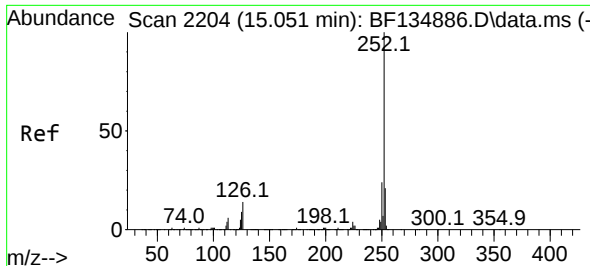
Delta R.T. 0.006 min

Lab File: BF134948.D

Acq: 25 Aug 2023 19:07

Tgt Ion:252 Resp: 645422
 Ion Ratio Lower Upper
 252 100
 253 22.7 18.1 27.1
 125 10.7 8.4 12.6





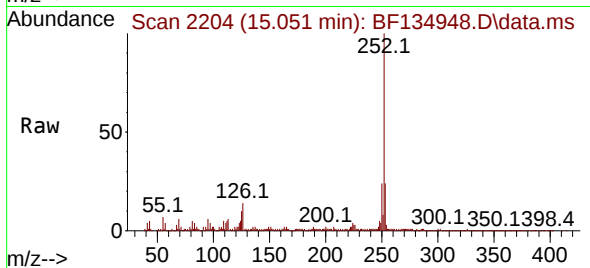
#89
Benzo(k)fluoranthene
Concen: 20.380 ng m
RT: 15.051 min Scan# 21
Delta R.T. -0.000 min
Lab File: BF134948.D
Acq: 25 Aug 2023 19:07

Instrument :

BNA_F

ClientSampleId :

TP-21(3-4)

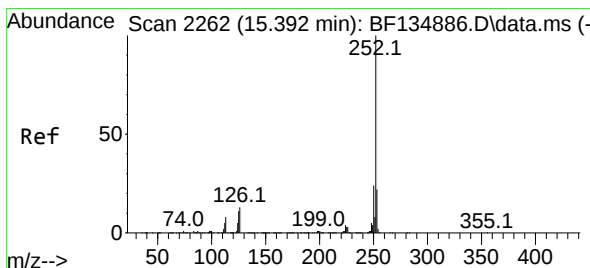
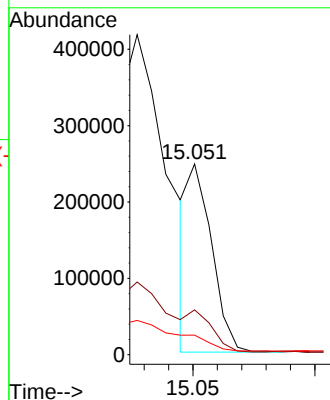
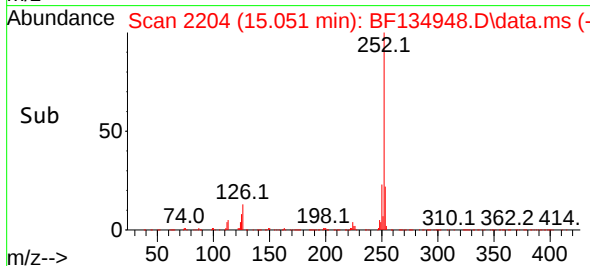


Tgt Ion:252 Resp: 165629
Ion Ratio Lower Upper
252 100
253 23.5 17.1 25.7
125 10.2 8.0 12.0

Manual Integrations

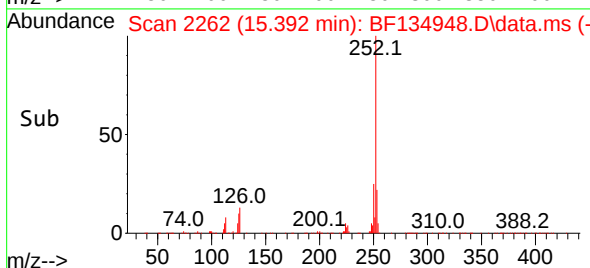
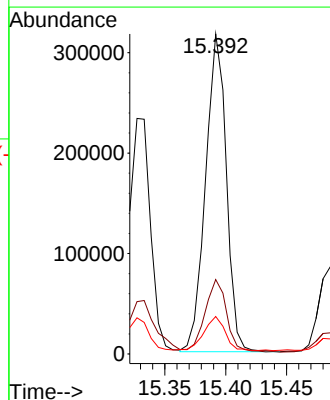
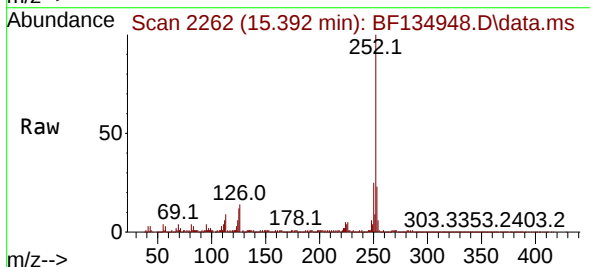
APPROVED

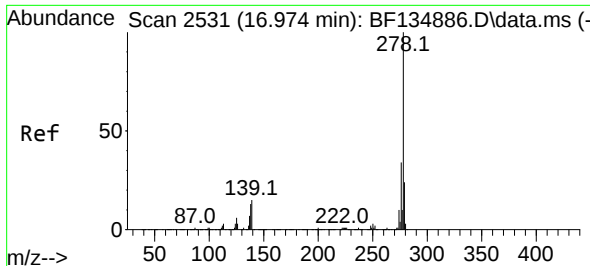
Reviewed By :Yogesh Patel 08/28/2023
Supervised By :mohammad ahmed 08/28/2023



#90
Benzo(a)pyrene
Concen: 45.468 ng
RT: 15.392 min Scan# 2262
Delta R.T. -0.000 min
Lab File: BF134948.D
Acq: 25 Aug 2023 19:07

Tgt Ion:252 Resp: 375655
Ion Ratio Lower Upper
252 100
253 23.2 17.6 26.4
125 11.7 8.4 12.6





#91
Dibenzo(a,h)anthracene
Concen: 7.146 ng
RT: 16.956 min Scan# 2531
Delta R.T. -0.018 min
Lab File: BF134948.D
Acq: 25 Aug 2023 19:07

Instrument :

BNA_F

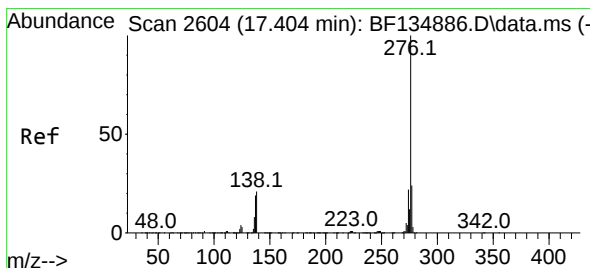
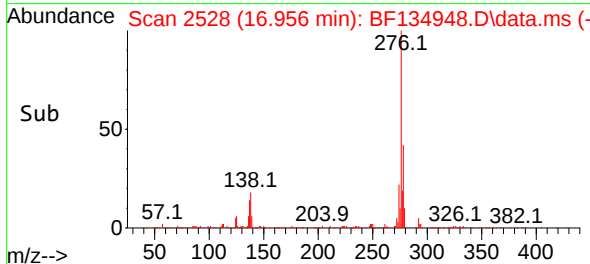
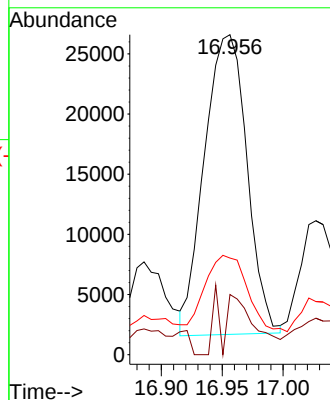
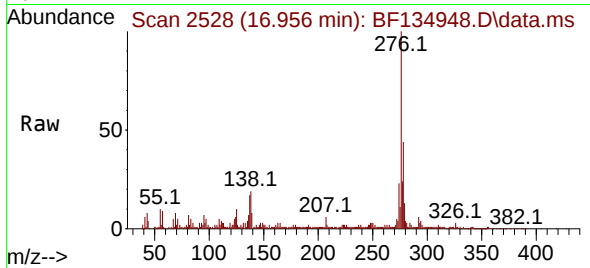
ClientSampleId :

TP-21(3-4)

Tgt Ion:278 Resp: 60624
Ion Ratio Lower Upper
278 100
139 18.8 12.2 18.4
279 30.2 19.1 28.7

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/28/2023
Supervised By :mohammad ahmed 08/28/2023



#92
Benzo(g,h,i)perylene
Concen: 22.620 ng
RT: 17.392 min Scan# 2602
Delta R.T. -0.012 min
Lab File: BF134948.D
Acq: 25 Aug 2023 19:07

Tgt Ion:276 Resp: 196444
Ion Ratio Lower Upper
276 100
277 23.4 19.2 28.8
138 21.3 17.0 25.6

