

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF062723\
 Data File : BF134020.D
 Acq On : 28 Jun 2023 08:31
 Operator : CG\JU
 Sample : 03355-12 2X
 Misc :
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-06-COMP

Manual Integrations
 APPROVED

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

Quant Time: Jun 28 08:51:56 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	100397	20.000	ng	0.00
21) Naphthalene-d8	8.133	136	340771	20.000	ng	0.00
39) Acenaphthene-d10	9.892	164	139640	20.000	ng	0.00
64) Phenanthrene-d10	11.386	188	262283	20.000	ng	0.00
76) Chrysene-d12	14.051	240	146757	20.000	ng	0.00
86) Perylene-d12	15.556	264	143039	20.000	ng	# 0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.481	112	277034	46.158	ng	0.00
7) Phenol-d6	6.486	99	297574	40.316	ng	0.00
23) Nitrobenzene-d5	7.410	82	187545	29.667	ng	0.00
42) 2,4,6-Tribromophenol	10.680	330	67004	38.270	ng	0.00
45) 2-Fluorobiphenyl	9.204	172	331736	34.539	ng	0.00
79) Terphenyl-d14	12.980	244	341960	37.501	ng	0.00
Target Compounds						Qvalue
49) Acenaphthylene	9.751	152	63282	4.520	ng	99
52) Acenaphthene	9.922	154	17561	2.162	ng	92
58) Fluorene	10.439	166	38137	3.861	ng	98
71) Phenanthrene	11.410	178	603708	45.722	ng	99
72) Anthracene	11.463	178	159487	11.613	ng	99
75) Fluoranthene	12.615	202	1185462	83.048	ng	99
78) Pyrene	12.845	202	1143722	83.742	ng	99
81) Benzo(a)anthracene	14.039	228	474500	46.621	ng	97
83) Chrysene	14.074	228	376058	38.148	ng	95
87) Indeno(1,2,3-cd)pyrene	17.109	276	144314	14.540	ng	94
88) Benzo(b)fluoranthene	15.115	252	469154m	55.780	ng	
89) Benzo(k)fluoranthene	15.139	252	133135m	15.547	ng	
90) Benzo(a)pyrene	15.498	252	320237	39.374	ng	97
91) Dibenzo(a,h)anthracene	17.121	278	37711	4.652	ng	# 75
92) Benzo(g,h,i)perylene	17.580	276	125837	15.052	ng	98

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

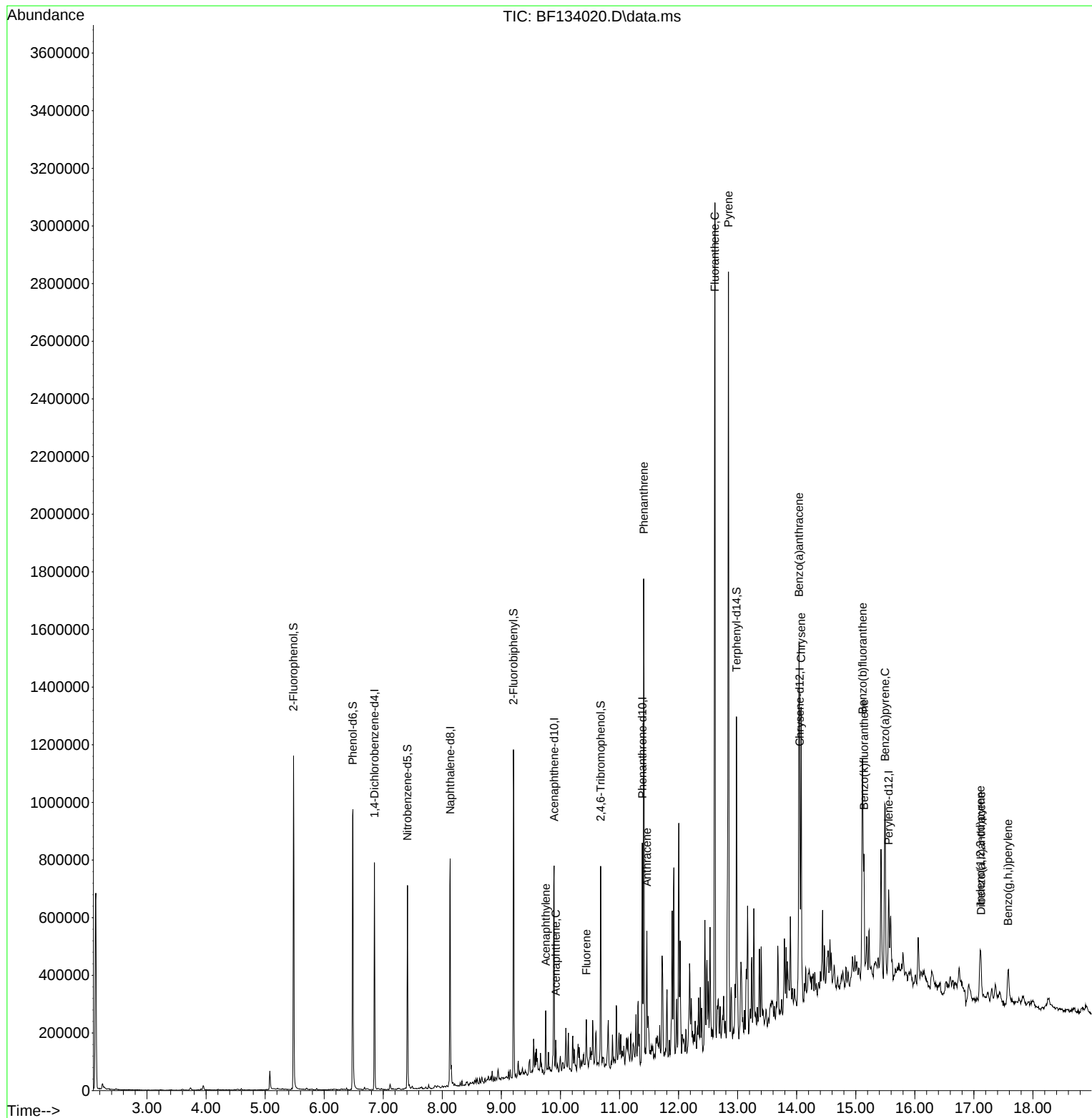
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF062723\
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APPROVED

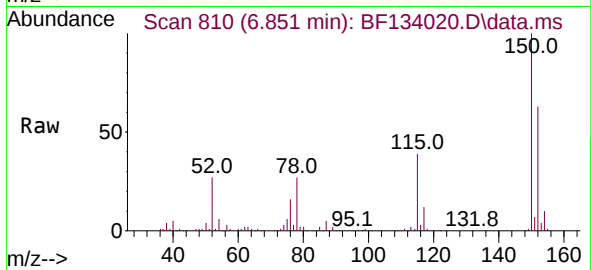
Reviewed By :Yogesh Patel 06/28/2023
Supervised By :mohammad ahmed 06/29/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.851 min Scan# 810
Delta R.T. 0.000 min
Lab File: BF134020.D
Acq: 28 Jun 2023 08:31

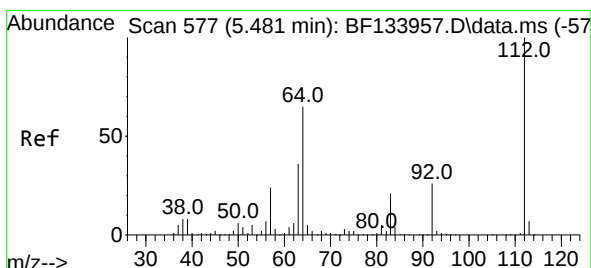
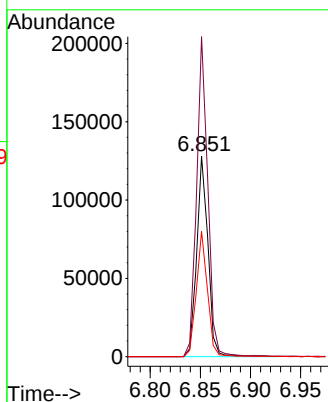
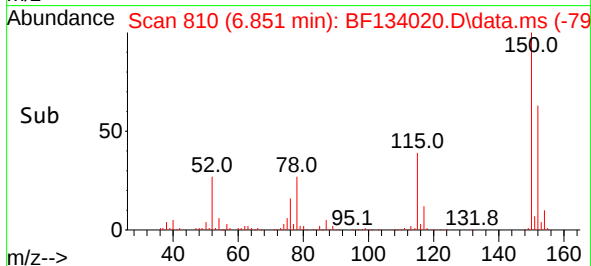
Instrument :
BNA_F
ClientSampleId :
SB-06-COMP



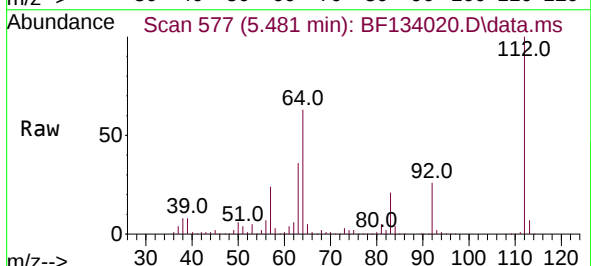
Tgt Ion:152 Resp: 100397
Ion Ratio Lower Upper
152 100
150 159.6 124.5 186.7
115 62.6 50.2 75.2

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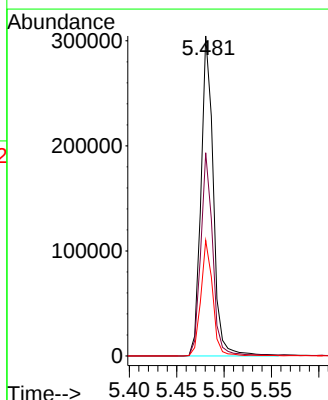
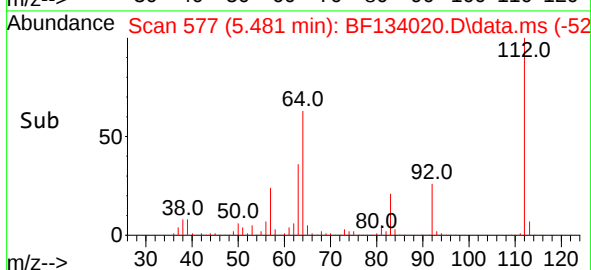
Reviewed By :Yogesh Patel 06/28/2023
Supervised By :mohammad ahmed 06/29/2023



#5
2-Fluorophenol
Concen: 46.158 ng
RT: 5.481 min Scan# 577
Delta R.T. -0.000 min
Lab File: BF134020.D
Acq: 28 Jun 2023 08:31



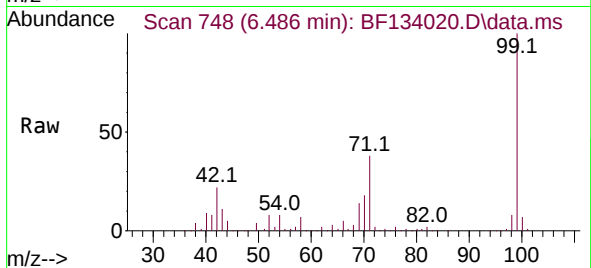
Tgt Ion:112 Resp: 277034
Ion Ratio Lower Upper
112 100
64 63.5 52.1 78.1
63 36.1 28.6 42.8





#7
Phenol-d6
Concen: 40.316 ng
RT: 6.486 min Scan# 749
Delta R.T. -0.006 min
Lab File: BF134020.D
Acq: 28 Jun 2023 08:31

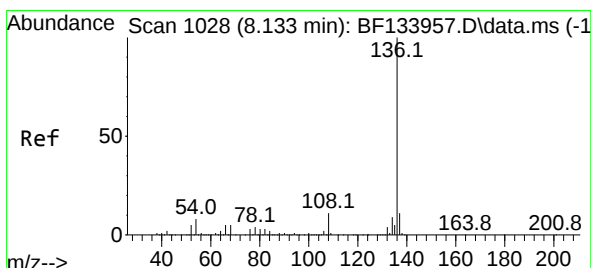
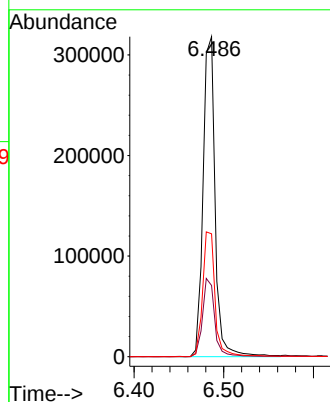
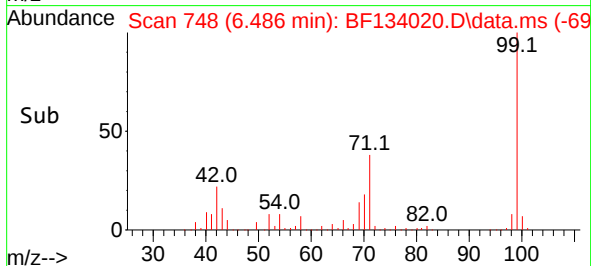
Instrument :
BNA_F
ClientSampleId :
SB-06-COMP



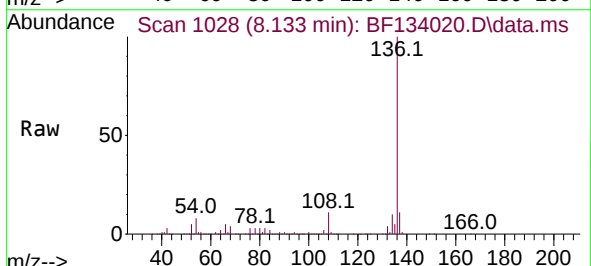
Tgt Ion: 99 Resp: 297574
Ion Ratio Lower Upper
99 100
42 22.3 19.8 29.6
71 38.4 31.9 47.9

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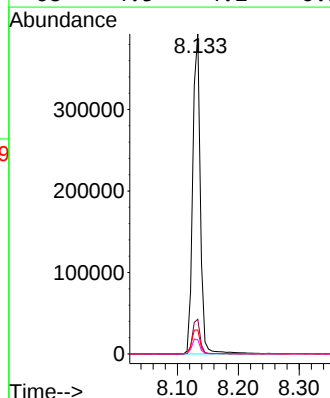
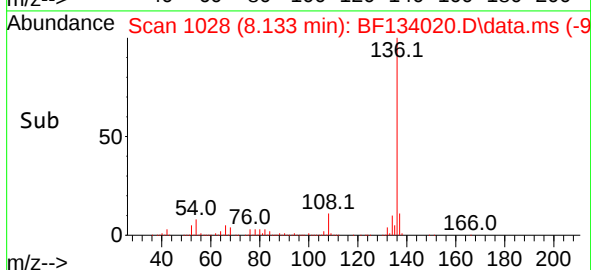
Reviewed By :Yogesh Patel 06/28/2023
Supervised By :mohammad ahmed 06/29/2023



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.133 min Scan# 1028
Delta R.T. -0.000 min
Lab File: BF134020.D
Acq: 28 Jun 2023 08:31



Tgt Ion:136 Resp: 340771
Ion Ratio Lower Upper
136 100
137 10.9 8.6 12.8
54 7.5 6.5 9.7
68 4.5 4.2 6.2





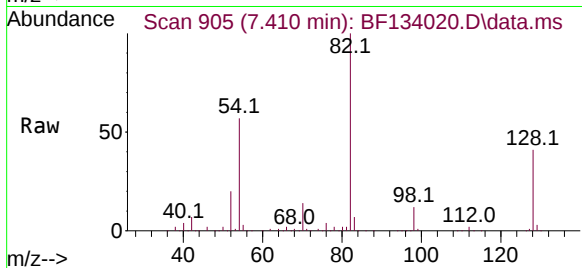
#23
Nitrobenzene-d5
Concen: 29.667 ng
RT: 7.410 min Scan# 906
Delta R.T. -0.006 min
Lab File: BF134020.D
Acq: 28 Jun 2023 08:31

Instrument :

BNA_F

ClientSampleId :

SB-06-COMP

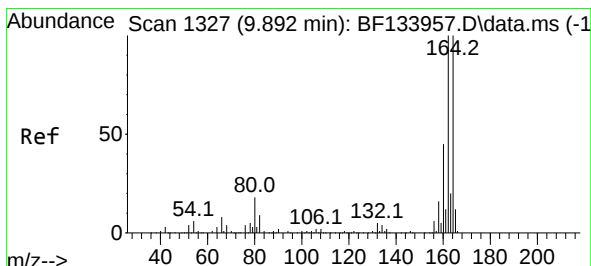
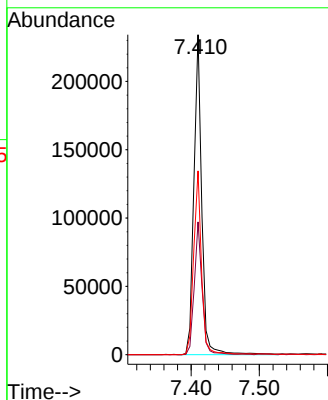
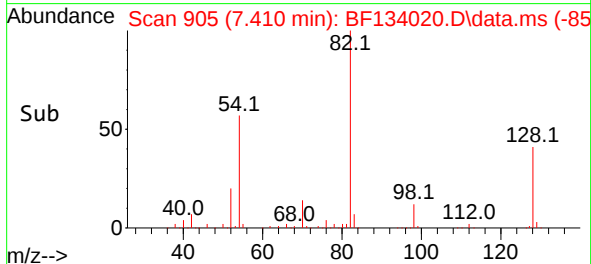


Tgt Ion: 82 Resp: 187549
Ion Ratio Lower Upper
82 100
128 41.5 32.5 48.7
54 57.5 48.2 72.2

Manual Integrations

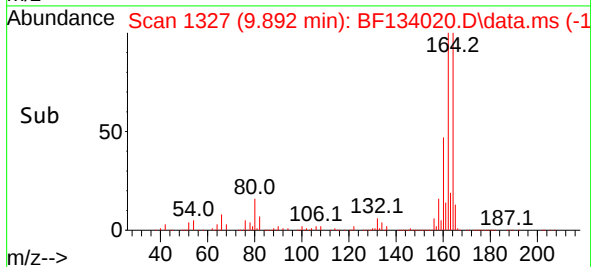
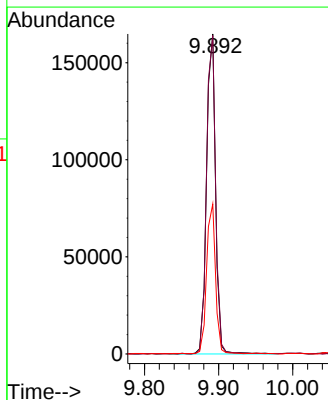
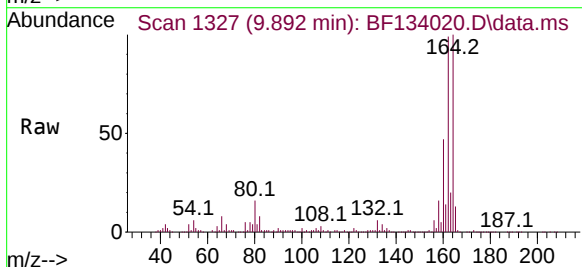
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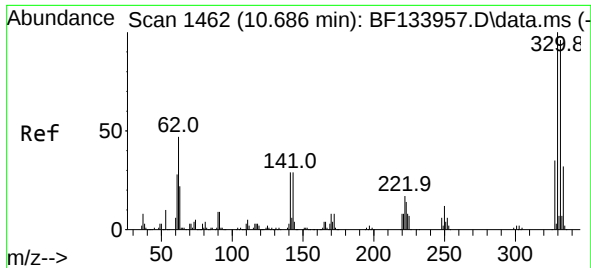
Reviewed By :Yogesh Patel 06/28/2023
Supervised By :mohammad ahmed 06/29/2023



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.892 min Scan# 1327
Delta R.T. -0.000 min
Lab File: BF134020.D
Acq: 28 Jun 2023 08:31

Tgt Ion:164 Resp: 139640
Ion Ratio Lower Upper
164 100
162 99.5 80.0 120.0
160 46.8 35.9 53.9





#42
2,4,6-Tribromophenol
Concen: 38.270 ng
RT: 10.680 min Scan# 1462
Delta R.T. -0.006 min
Lab File: BF134020.D
Acq: 28 Jun 2023 08:31

Instrument :

BNA_F

ClientSampleId :

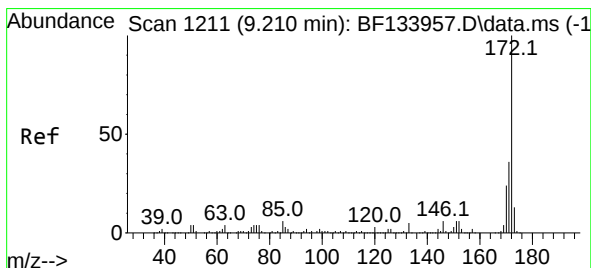
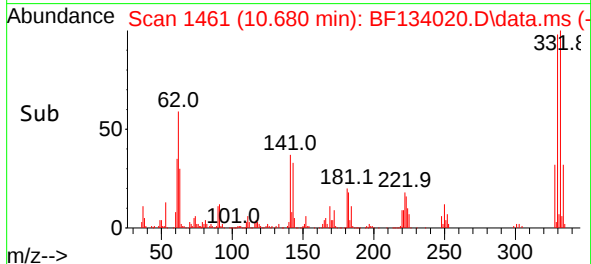
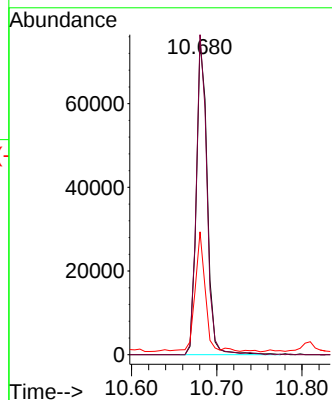
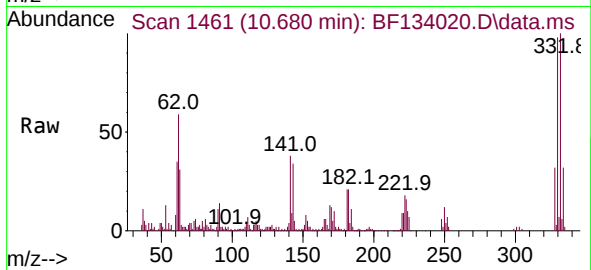
SB-06-COMP

Tgt Ion:330 Resp: 67004
Ion Ratio Lower Upper
330 100
332 99.0 77.0 115.6
141 33.2 26.3 39.5

Manual Integrations

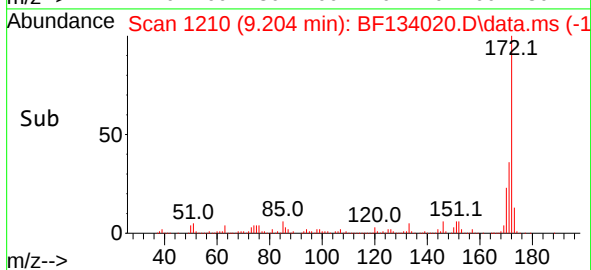
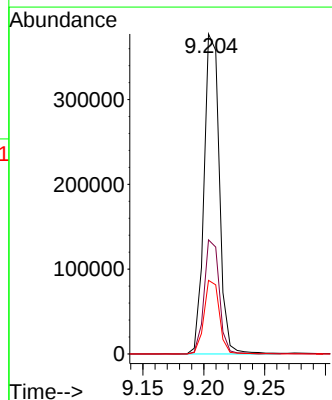
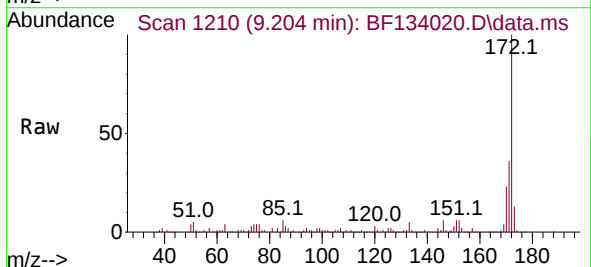
APPROVED

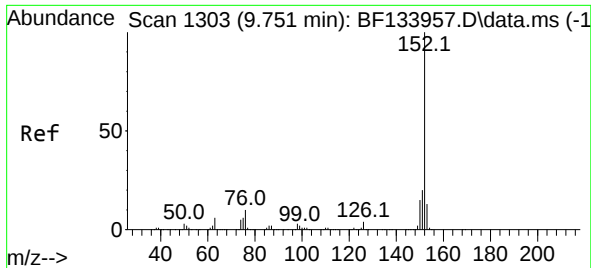
Reviewed By :Yogesh Patel 06/28/2023
Supervised By :mohammad ahmed 06/29/2023



#45
2-Fluorobiphenyl
Concen: 34.539 ng
RT: 9.204 min Scan# 1210
Delta R.T. -0.006 min
Lab File: BF134020.D
Acq: 28 Jun 2023 08:31

Tgt Ion:172 Resp: 331736
Ion Ratio Lower Upper
172 100
171 35.6 28.6 43.0
170 23.0 19.4 29.0





#49
Acenaphthylene
Concen: 4.520 ng
RT: 9.751 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF134020.D
Acq: 28 Jun 2023 08:31

Instrument :

BNA_F

ClientSampleId :

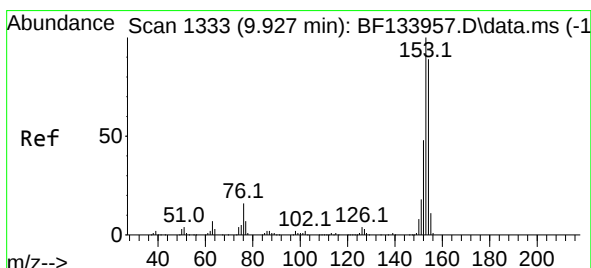
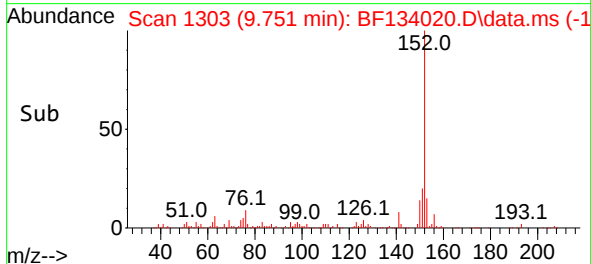
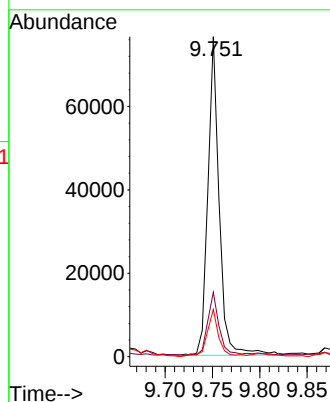
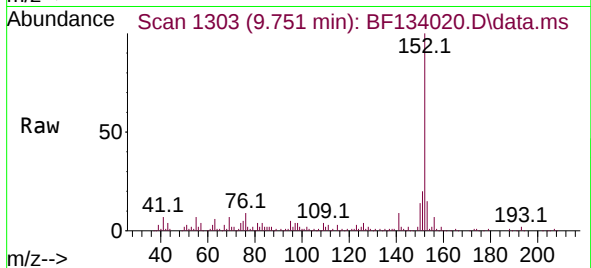
SB-06-COMP

Tgt Ion:152 Resp: 6328
Ion Ratio Lower Upper
152 100
151 20.2 16.2 24.2
153 14.8 10.8 16.2

Manual Integrations

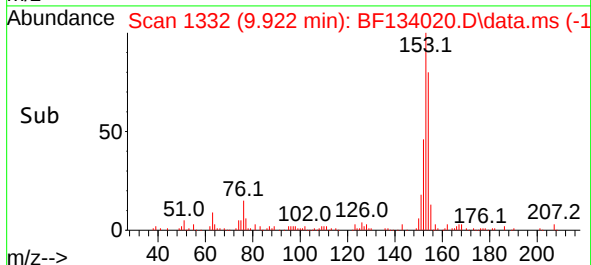
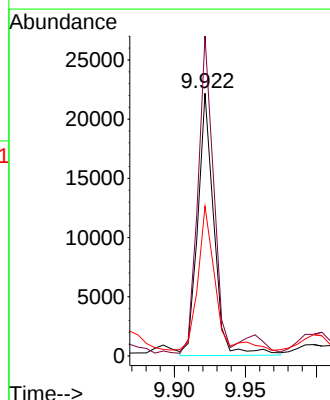
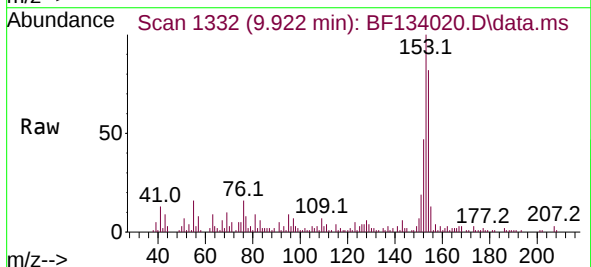
APPROVED

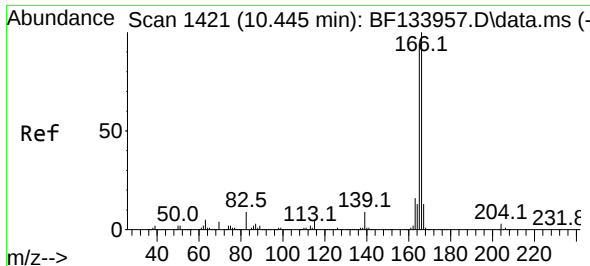
Reviewed By :Yogesh Patel 06/28/2023
Supervised By :mohammad ahmed 06/29/2023



#52
Acenaphthene
Concen: 2.162 ng
RT: 9.922 min Scan# 1332
Delta R.T. -0.005 min
Lab File: BF134020.D
Acq: 28 Jun 2023 08:31

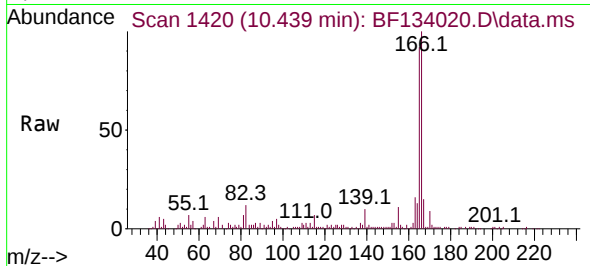
Tgt Ion:154 Resp: 17561
Ion Ratio Lower Upper
154 100
153 121.8 89.4 134.2
152 57.0 42.8 64.2





#58
Fluorene
Concen: 3.861 ng
RT: 10.439 min Scan# 1421
Delta R.T. -0.006 min
Lab File: BF134020.D
Acq: 28 Jun 2023 08:31

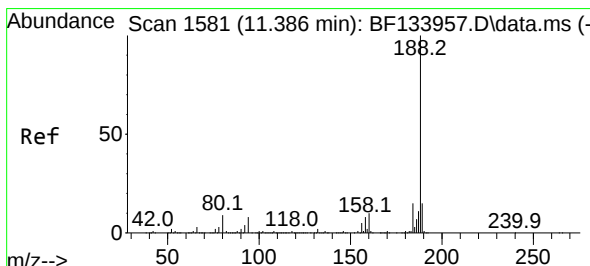
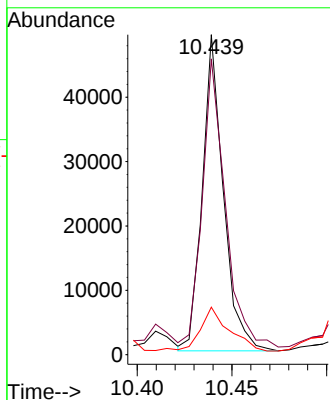
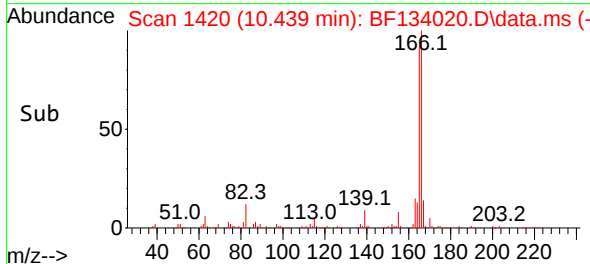
Instrument :
BNA_F
ClientSampleId :
SB-06-COMP



Tgt Ion:166 Resp: 3813
Ion Ratio Lower Upper
166 100
165 92.5 75.0 112.4
167 14.9 10.6 15.8

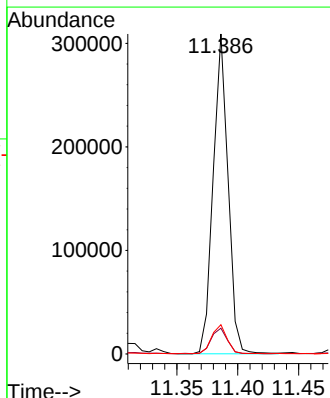
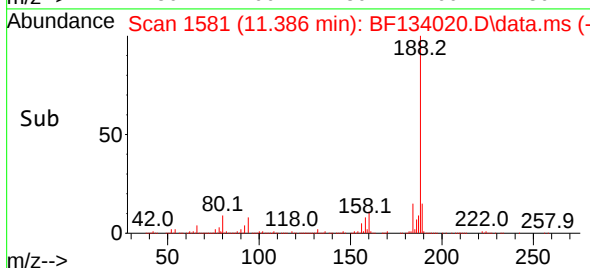
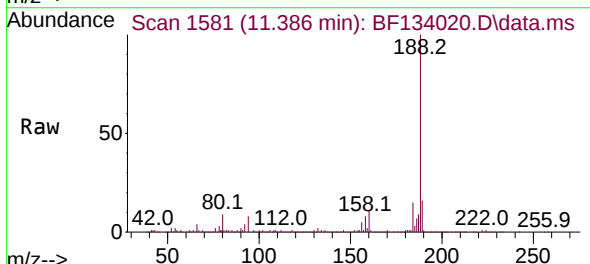
Manual Integrations
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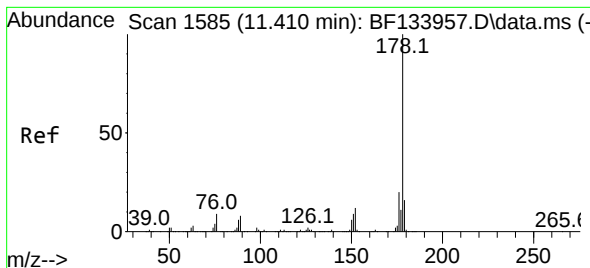
Reviewed By :Yogesh Patel 06/28/2023
Supervised By :mohammad ahmed 06/29/2023



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.386 min Scan# 1581
Delta R.T. -0.000 min
Lab File: BF134020.D
Acq: 28 Jun 2023 08:31

Tgt Ion:188 Resp: 262283
Ion Ratio Lower Upper
188 100
94 8.1 6.4 9.6
80 9.1 7.3 10.9





#71

Phenanthrene

Concen: 45.722 ng

RT: 11.410 min Scan# 1585

Delta R.T. -0.000 min

Lab File: BF134020.D

Acq: 28 Jun 2023 08:31

Instrument :

BNA_F

ClientSampleId :

SB-06-COMP

Tgt Ion:178 Resp: 603708

Ion Ratio Lower Upper

178 100

176 19.8 16.0 24.0

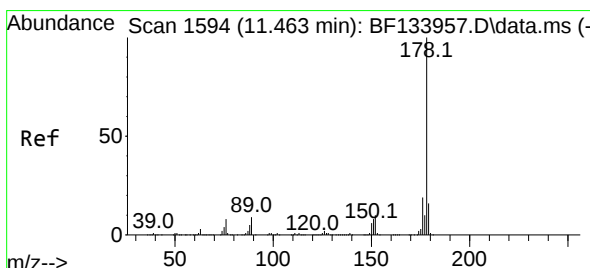
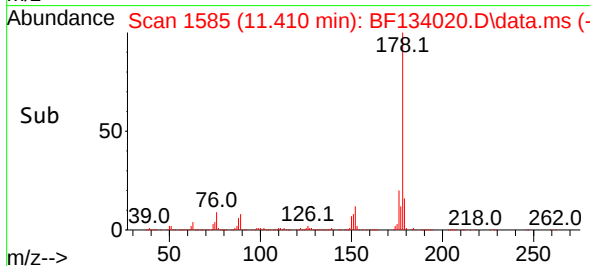
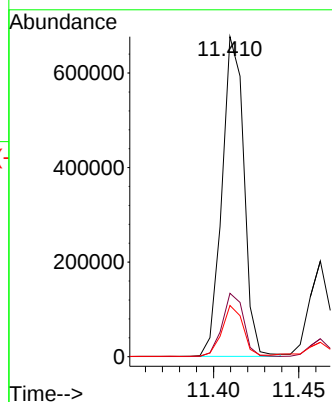
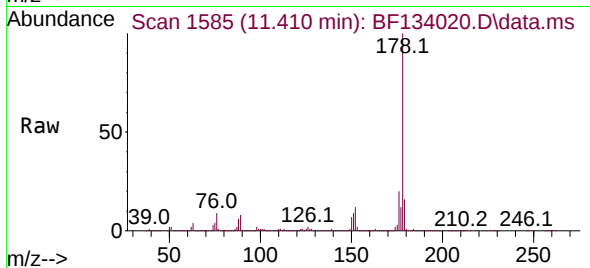
179 16.0 12.4 18.6

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 06/28/2023

Supervised By :mohammad ahmed 06/29/2023



#72

Anthracene

Concen: 11.613 ng

RT: 11.463 min Scan# 1594

Delta R.T. -0.000 min

Lab File: BF134020.D

Acq: 28 Jun 2023 08:31

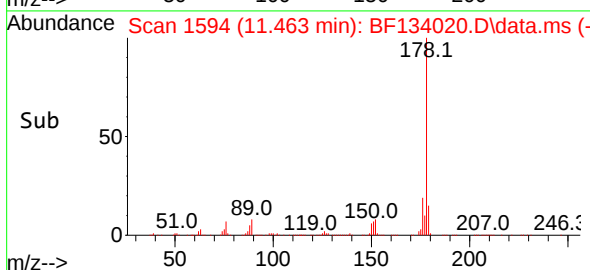
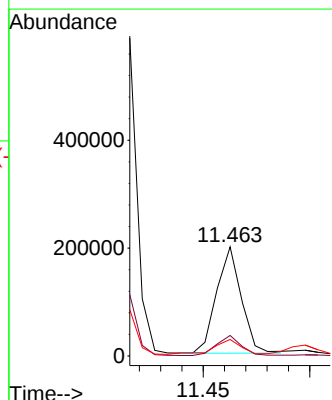
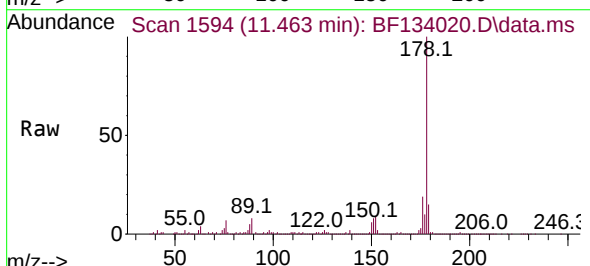
Tgt Ion:178 Resp: 159487

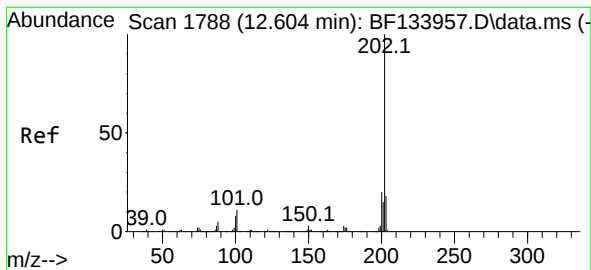
Ion Ratio Lower Upper

178 100

176 18.8 15.3 22.9

179 15.1 12.4 18.6





#75

Fluoranthene

Concen: 83.048 ng

RT: 12.615 min Scan# 11

Delta R.T. 0.012 min

Lab File: BF134020.D

Acq: 28 Jun 2023 08:31

Instrument :

BNA_F

ClientSampleId :

SB-06-COMP

Tgt Ion:202 Resp: 118546

Ion Ratio Lower Upper

202 100

101 9.8 0.0 31.0

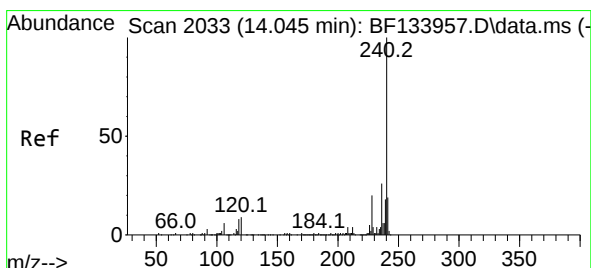
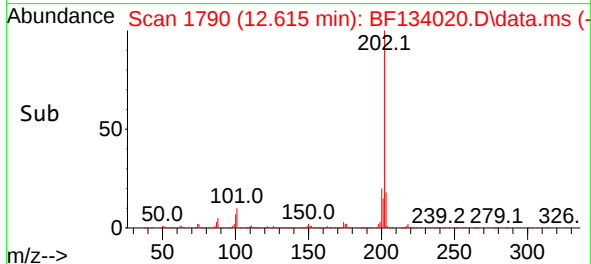
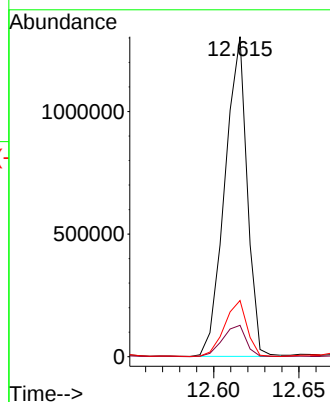
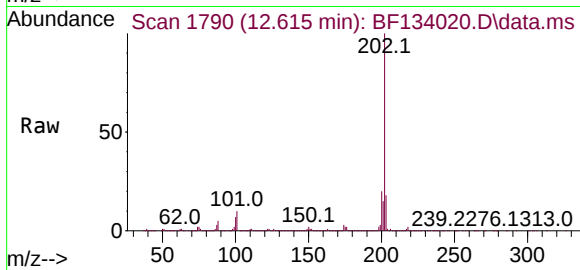
203 17.5 0.0 37.6

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 06/28/2023

Supervised By :mohammad ahmed 06/29/2023



#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.051 min Scan# 2034

Delta R.T. 0.006 min

Lab File: BF134020.D

Acq: 28 Jun 2023 08:31

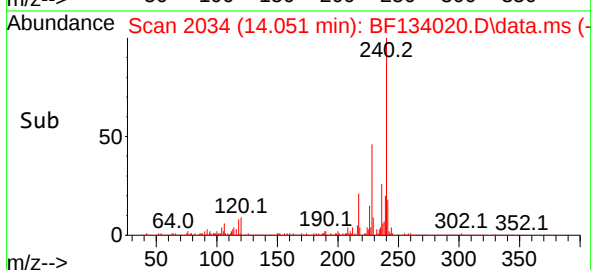
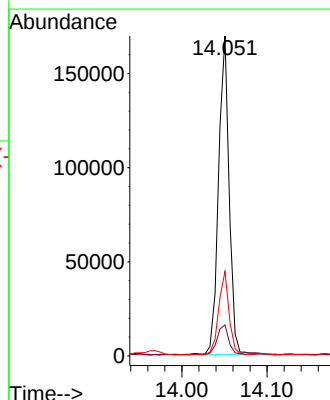
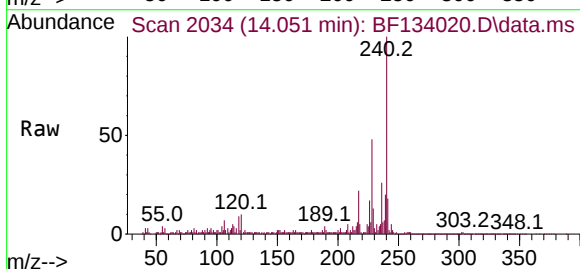
Tgt Ion:240 Resp: 146757

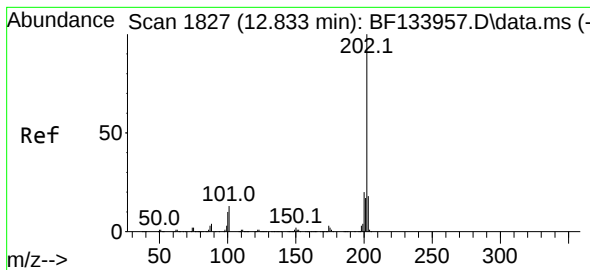
Ion Ratio Lower Upper

240 100

120 9.7 7.4 11.0

236 26.5 21.0 31.6





#78

Pyrene

Concen: 83.742 ng

RT: 12.845 min Scan# 1829

Delta R.T. 0.012 min

Lab File: BF134020.D

Acq: 28 Jun 2023 08:31

Instrument :

BNA_F

ClientSampleId :

SB-06-COMP

Tgt Ion:202 Resp: 114372

Ion Ratio Lower Upper

202 100

200 19.9 16.1 24.1

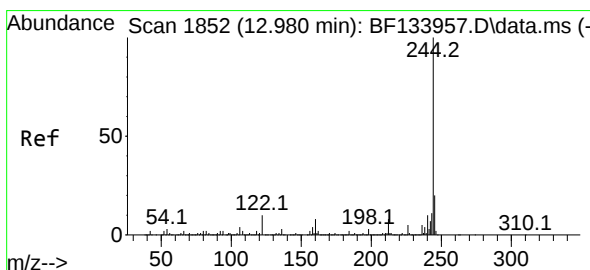
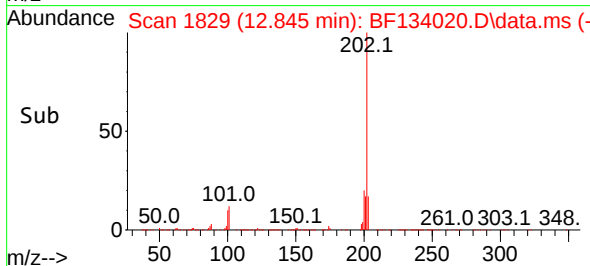
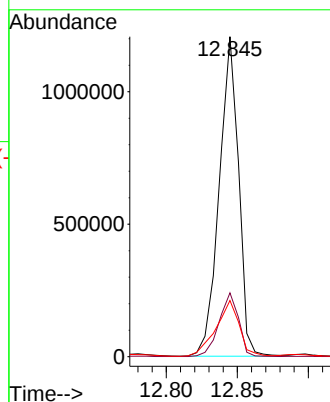
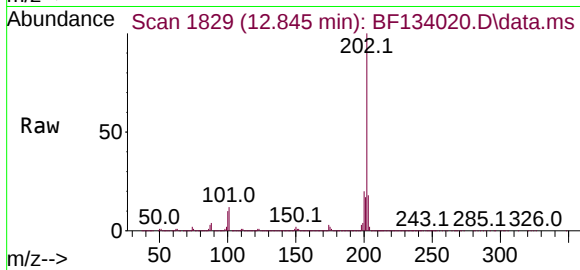
203 17.6 14.3 21.5

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 06/28/2023

Supervised By :mohammad ahmed 06/29/2023



#79

Terphenyl-d14

Concen: 37.501 ng

RT: 12.980 min Scan# 1852

Delta R.T. -0.000 min

Lab File: BF134020.D

Acq: 28 Jun 2023 08:31

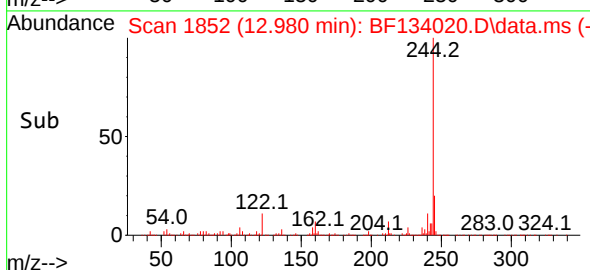
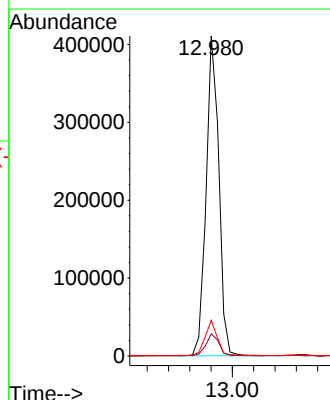
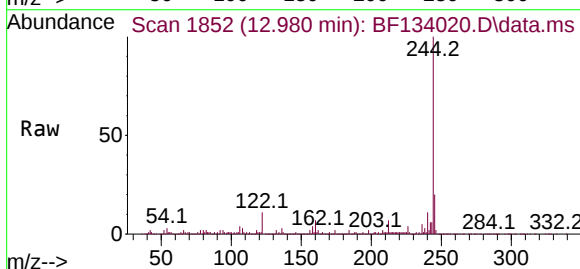
Tgt Ion:244 Resp: 341960

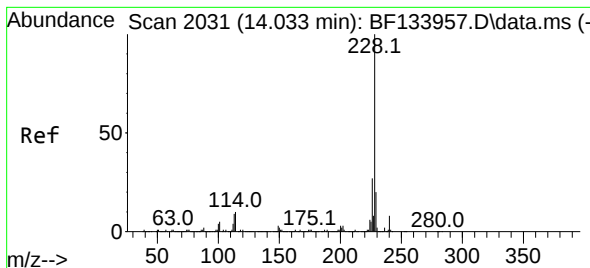
Ion Ratio Lower Upper

244 100

212 6.9 6.0 9.0

122 11.1 8.3 12.5





#81

Benzo(a)anthracene

Concen: 46.621 ng

RT: 14.039 min Scan# 2031

Delta R.T. 0.006 min

Lab File: BF134020.D

Acq: 28 Jun 2023 08:31

Instrument :

BNA_F

ClientSampleId :

SB-06-COMP

Tgt Ion:228 Resp: 474500

Ion Ratio Lower Upper

228 100

226 30.0 22.0 33.0

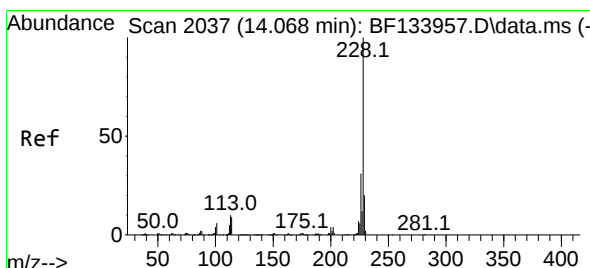
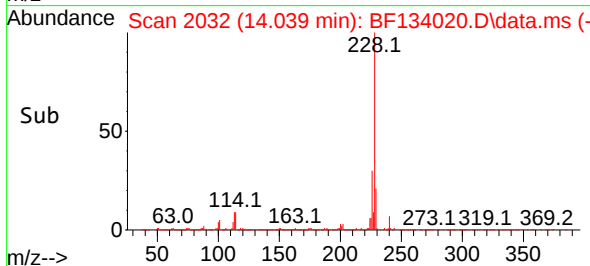
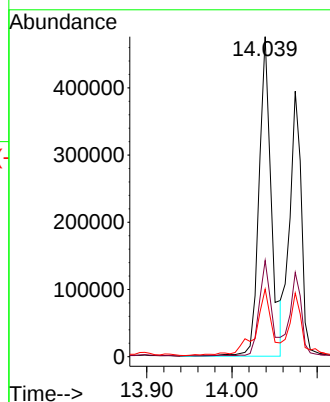
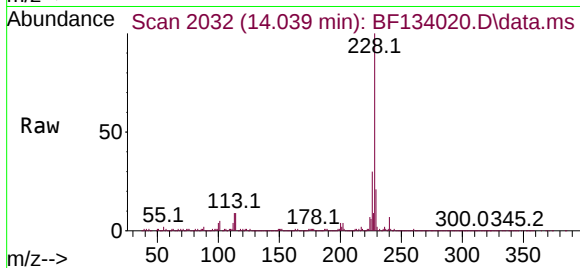
229 21.1 16.3 24.5

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 06/28/2023

Supervised By :mohammad ahmed 06/29/2023



#83

Chrysene

Concen: 38.148 ng

RT: 14.074 min Scan# 2038

Delta R.T. 0.006 min

Lab File: BF134020.D

Acq: 28 Jun 2023 08:31

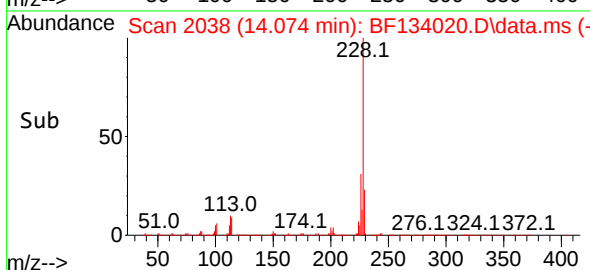
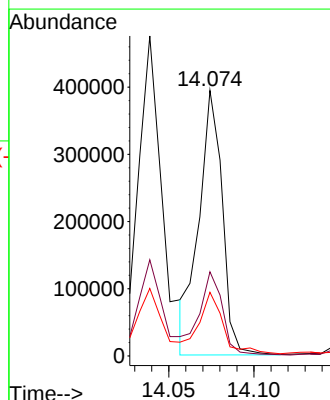
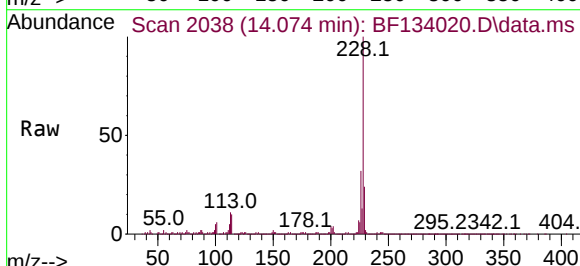
Tgt Ion:228 Resp: 376058

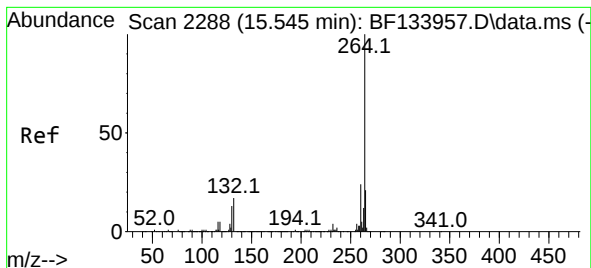
Ion Ratio Lower Upper

228 100

226 31.7 24.4 36.6

229 24.0 16.1 24.1





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.556 min Scan# 21

Delta R.T. 0.012 min

Lab File: BF134020.D

Acq: 28 Jun 2023 08:31

Instrument :

BNA_F

ClientSampleId :

SB-06-COMP

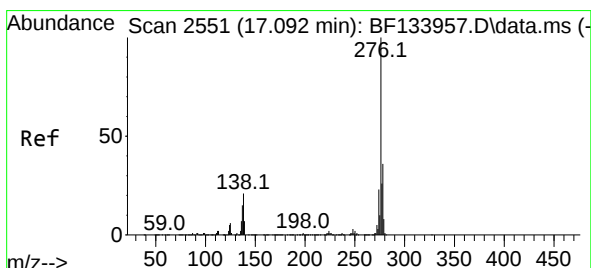
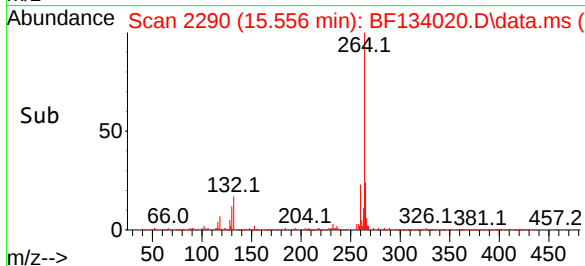
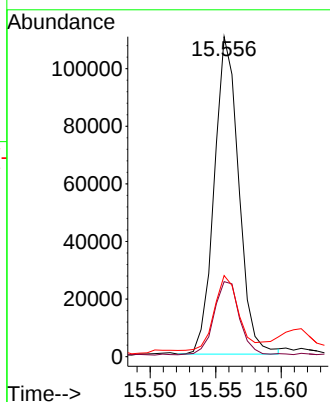
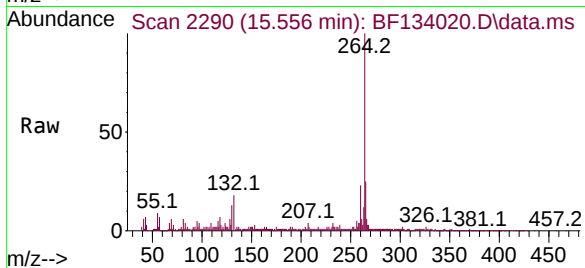
Tgt Ion:264 Resp: 143039
 Ion Ratio Lower Upper
 264 100
 260 23.5 19.5 29.3
 265 25.3 16.6 25.0

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 06/28/2023

Supervised By :mohammad ahmed 06/29/2023



#87

Indeno(1,2,3-cd)pyrene

Concen: 14.540 ng

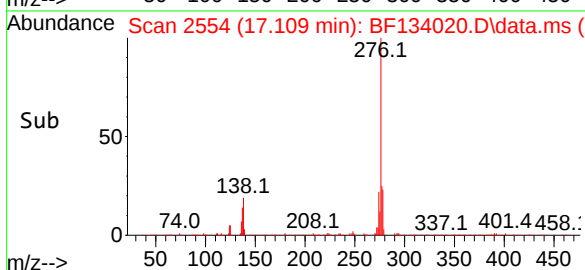
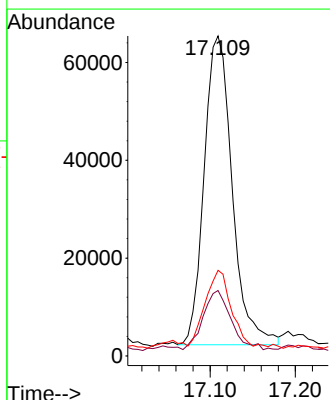
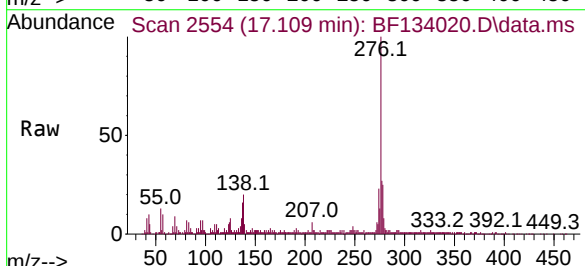
RT: 17.109 min Scan# 2554

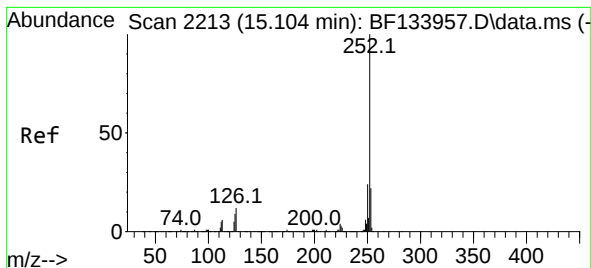
Delta R.T. 0.018 min

Lab File: BF134020.D

Acq: 28 Jun 2023 08:31

Tgt Ion:276 Resp: 144314
 Ion Ratio Lower Upper
 276 100
 138 18.9 18.7 28.1
 277 23.0 19.9 29.9





#88

Benzo(b)fluoranthene

Concen: 55.780 ng m

RT: 15.115 min Scan# 2215

Delta R.T. 0.012 min

Lab File: BF134020.D

Acq: 28 Jun 2023 08:31

Instrument :

BNA_F

ClientSampleId :

SB-06-COMP

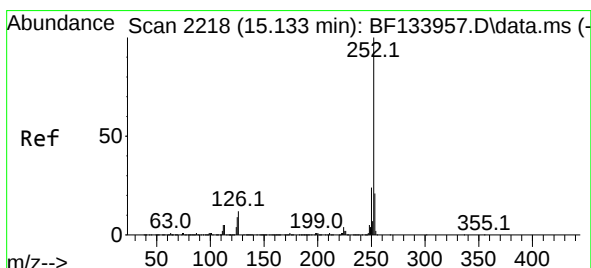
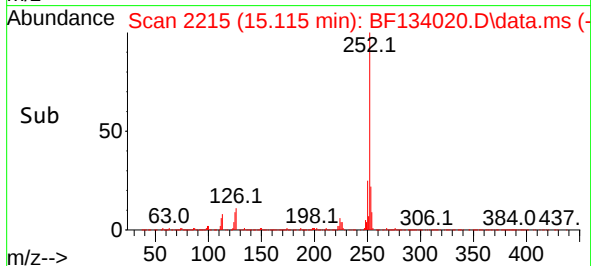
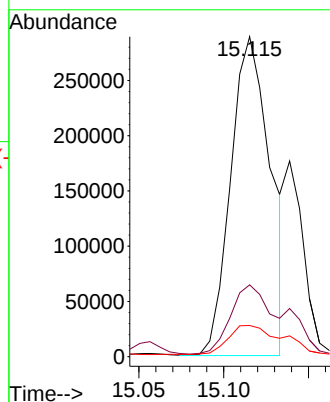
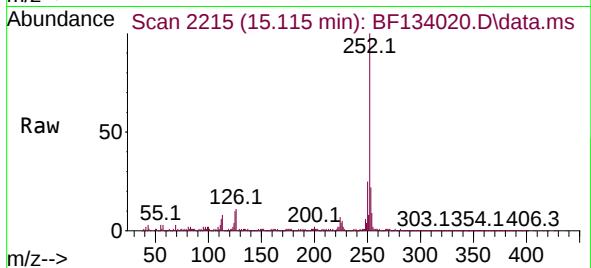
Tgt Ion:252 Resp: 469154
 Ion Ratio Lower Upper
 252 100
 253 22.4 17.4 26.0
 125 9.8 7.1 10.7

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 06/28/2023

Supervised By :mohammad ahmed 06/29/2023



#89

Benzo(k)fluoranthene

Concen: 15.547 ng m

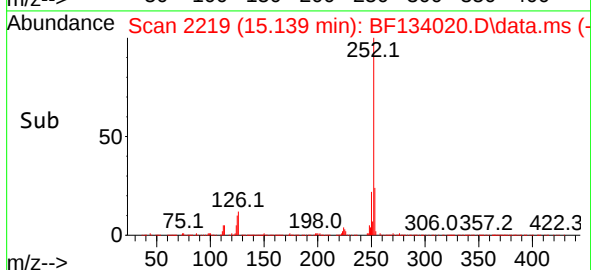
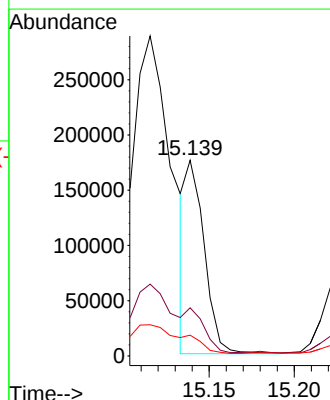
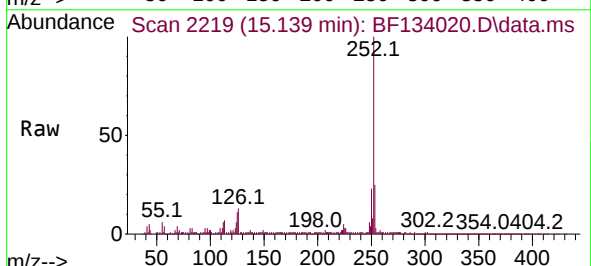
RT: 15.139 min Scan# 2219

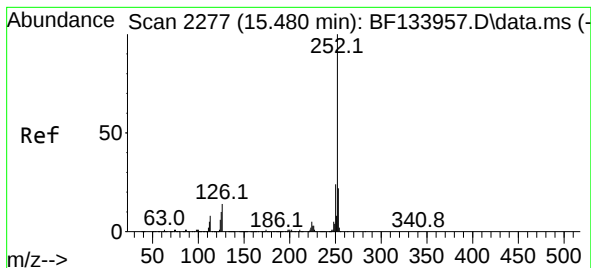
Delta R.T. 0.006 min

Lab File: BF134020.D

Acq: 28 Jun 2023 08:31

Tgt Ion:252 Resp: 133135
 Ion Ratio Lower Upper
 252 100
 253 24.6 16.9 25.3
 125 10.6 7.4 11.2





#90

Benzo(a)pyrene

Concen: 39.374 ng

RT: 15.498 min Scan# 21

Delta R.T. 0.018 min

Lab File: BF134020.D

Acq: 28 Jun 2023 08:31

Instrument :

BNA_F

ClientSampleId :

SB-06-COMP

Tgt Ion:252 Resp: 32023

Ion Ratio Lower Upper

252 100

253 22.7 17.4 26.0

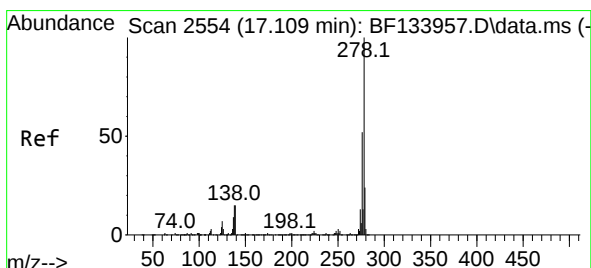
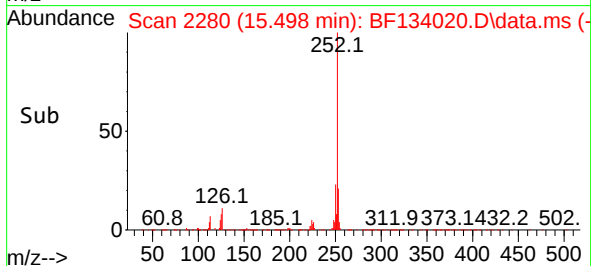
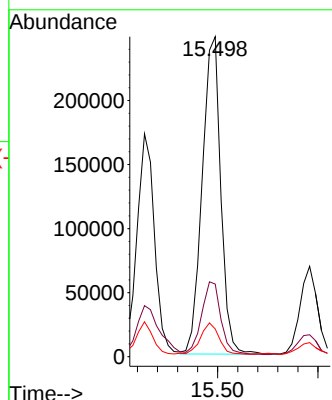
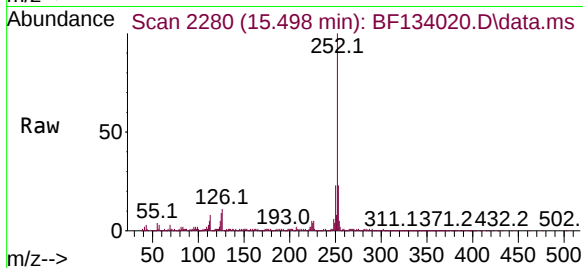
125 8.6 8.4 12.6

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 06/28/2023

Supervised By :mohammad ahmed 06/29/2023



#91

Dibenzo(a,h)anthracene

Concen: 4.652 ng

RT: 17.121 min Scan# 2556

Delta R.T. 0.012 min

Lab File: BF134020.D

Acq: 28 Jun 2023 08:31

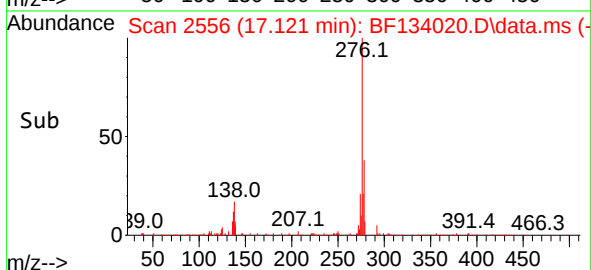
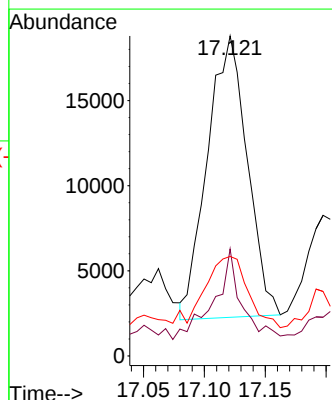
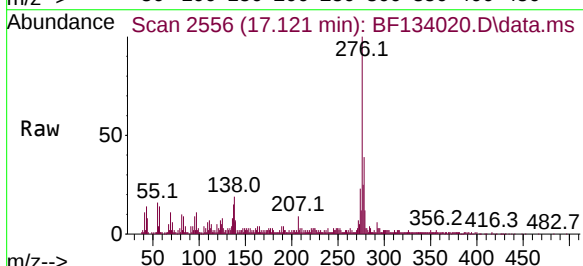
Tgt Ion:278 Resp: 37711

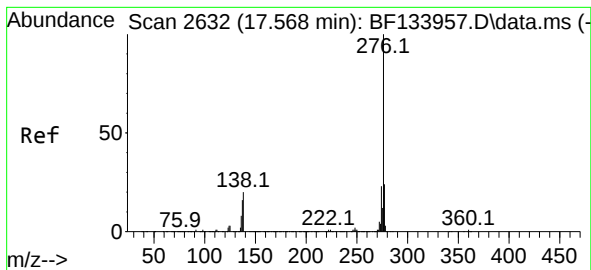
Ion Ratio Lower Upper

278 100

139 33.5 12.2 18.4#

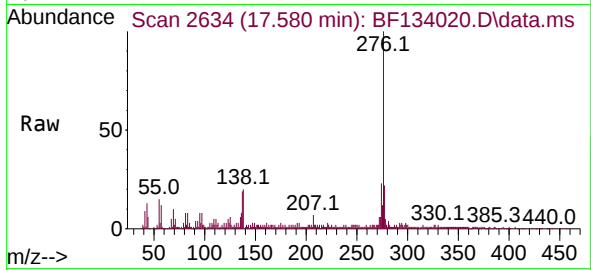
279 31.1 19.4 29.2#





#92
 Benzo(g,h,i)perylene
 Concen: 15.052 ng
 RT: 17.580 min Scan# 20
 Delta R.T. 0.012 min
 Lab File: BF134020.D
 Acq: 28 Jun 2023 08:31

Instrument :
 BNA_F
 ClientSampleId :
 SB-06-COMP



Tgt Ion: 276 Resp: 12583
 Ion Ratio Lower Upper
 276 100
 277 22.5 19.0 28.6
 138 20.4 16.2 24.2

Manual Integrations
 APPROVED

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

