

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF092923\
 Data File : BF135520.D
 Acq On : 29 Sep 2023 17:15
 Operator : CG\JU
 Sample : 04636-01
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 OR-03-09272023

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 10/02/2023
 Supervised By :mohammad ahmed 10/03/2023

Quant Time: Sep 30 00:23:19 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF091123.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Sep 30 00:12:20 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.745	152	154928	20.000	ng	0.00
21) Naphthalene-d8	8.022	136	541929	20.000	ng	# 0.00
39) Acenaphthene-d10	9.780	164	215681	20.000	ng	0.00
64) Phenanthrene-d10	11.274	188	343749	20.000	ng	0.00
76) Chrysene-d12	13.933	240	273836	20.000	ng	0.00
86) Perylene-d12	15.392	264	222784	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.381	112	823229	86.423	ng	0.00
7) Phenol-d6	6.398	99	997445	82.350	ng	0.00
23) Nitrobenzene-d5	7.310	82	600925	60.244	ng	-0.01
42) 2,4,6-Tribromophenol	10.575	330	138598	64.664	ng	0.00
45) 2-Fluorobiphenyl	9.104	172	946311	66.196	ng	0.00
79) Terphenyl-d14	12.868	244	763391	43.216	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.045	128	69901	2.655	ng	98
37) 2-Methylnaphthalene	8.739	142	38473	2.174	ng	99
38) 1-Methylnaphthalene	8.833	142	34067	2.056	ng	100
52) Acenaphthene	9.810	154	90896	7.699	ng	95
55) Dibenzofuran	9.986	168	94011	5.218	ng	99
58) Fluorene	10.327	166	130948	9.454	ng	98
71) Phenanthrene	11.298	178	775185	47.681	ng	99
72) Anthracene	11.351	178	250192	14.971	ng	98
73) Carbazole	11.510	167	84465	5.552	ng	98
75) Fluoranthene	12.492	202	940717	55.531	ng	96
78) Pyrene	12.721	202	814742	31.251	ng	99
81) Benzo(a)anthracene	13.921	228	379725	21.475	ng	99
83) Chrysene	13.957	228	354067m	20.140	ng	
87) Indeno(1,2,3-cd)pyrene	16.874	276	106844	7.314	ng	99
88) Benzo(b)fluoranthene	14.968	252	300459m	24.913	ng	
89) Benzo(k)fluoranthene	14.998	252	108029m	9.068	ng	
90) Benzo(a)pyrene	15.333	252	218504	18.999	ng	98
91) Dibenzo(a,h)anthracene	16.880	278	26543	2.221	ng	# 85
92) Benzo(g,h,i)perylene	17.321	276	99188	7.946	ng	95

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

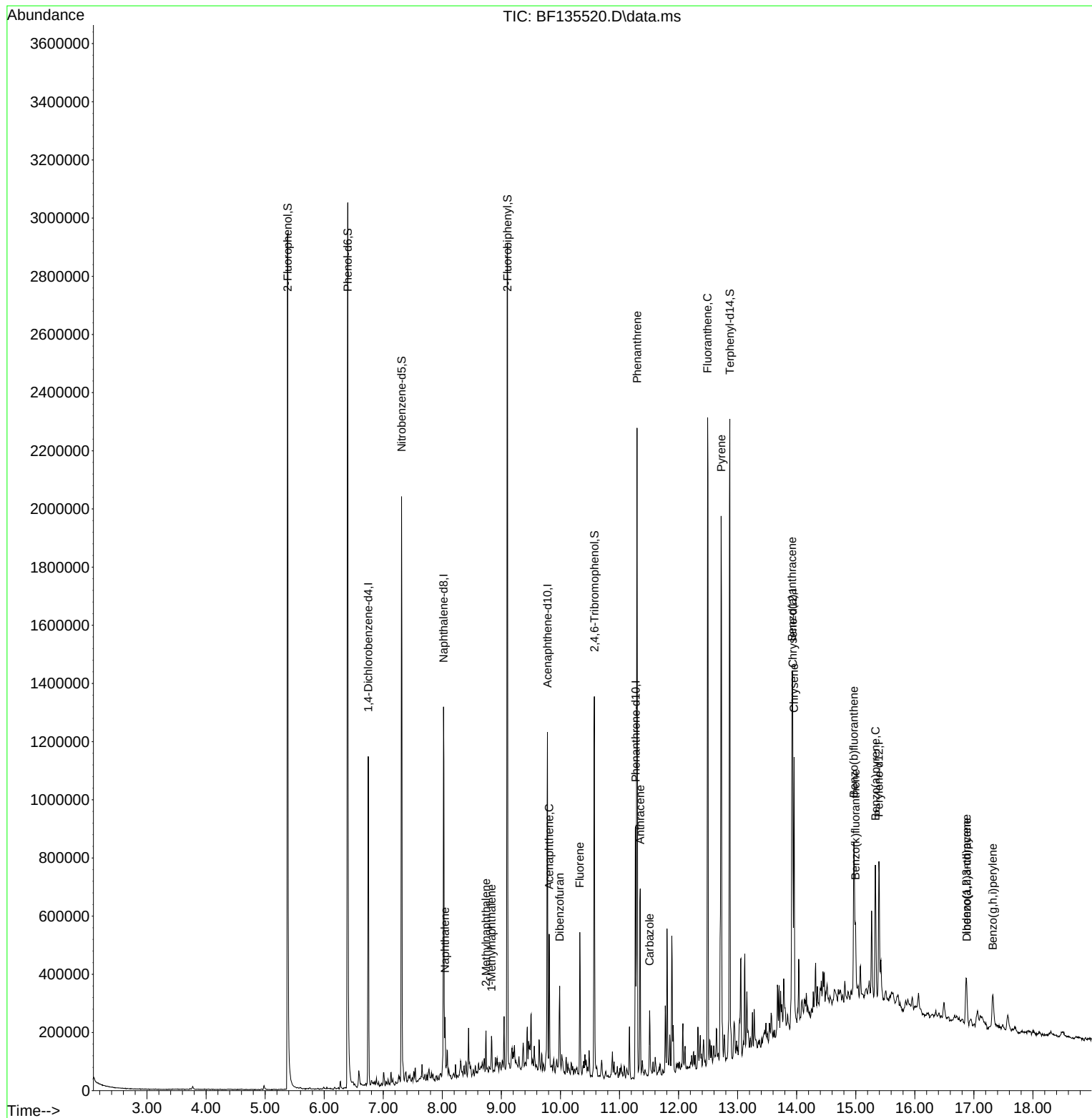
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF092923\
Data File : BF135520.D
Acq On : 29 Sep 2023 17:15
Operator : CG\JU
Sample : 04636-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

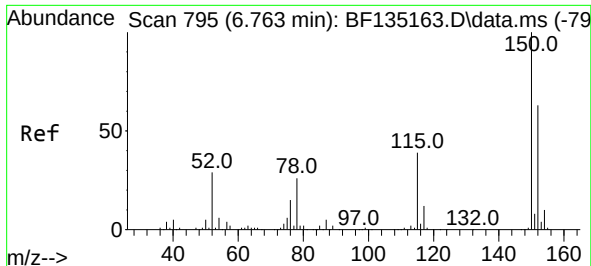
Instrument :
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ClientSampleId :
OR-03-09272023

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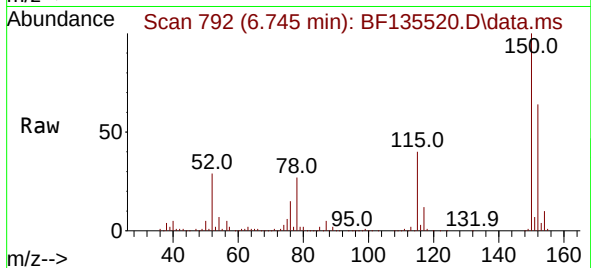
Quant Time: Sep 30 00:23:19 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF091123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Sep 30 00:12:20 2023
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.745 min Scan# 795
Delta R.T. -0.006 min
Lab File: BF135520.D
Acq: 29 Sep 2023 17:15

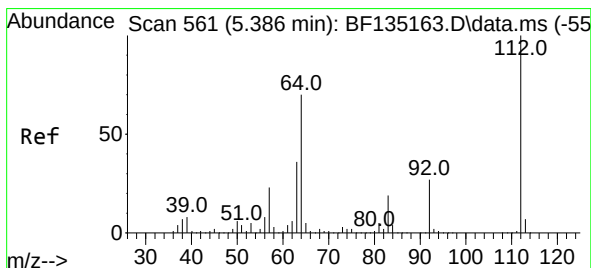
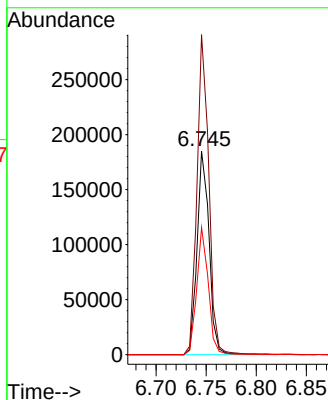
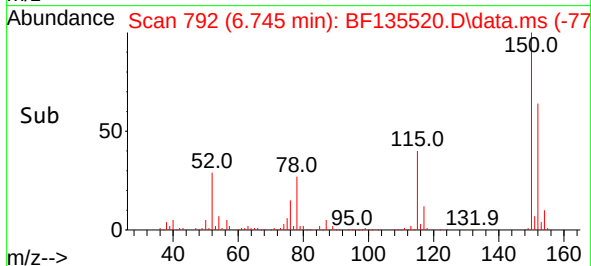
Instrument :
BNA_F
ClientSampleId :
OR-03-09272023



Tgt Ion:152 Resp: 154928
Ion Ratio Lower Upper
152 100
150 157.2 127.8 191.6
115 62.4 49.8 74.8

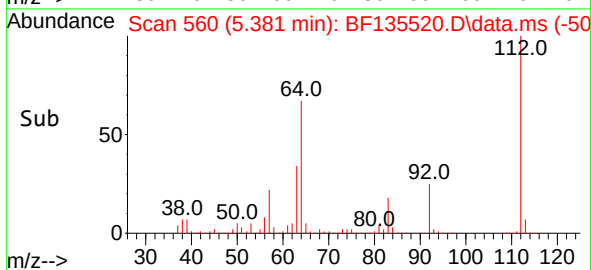
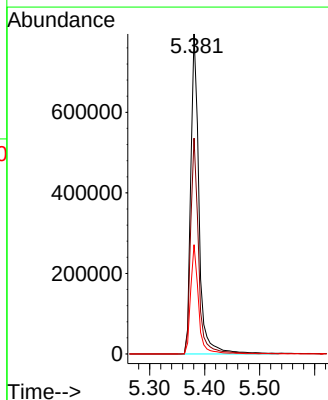
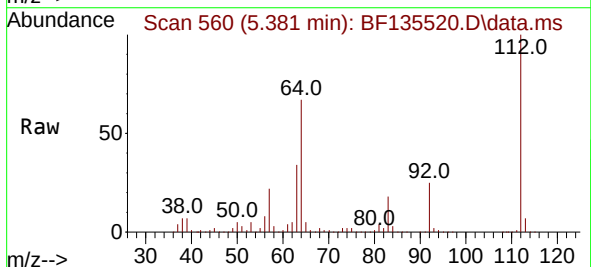
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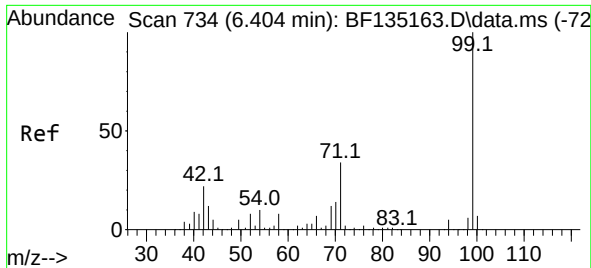
Reviewed By :Yogesh Patel 10/02/2023
Supervised By :mohammad ahmed 10/03/2023



#5
2-Fluorophenol
Concen: 86.423 ng
RT: 5.381 min Scan# 560
Delta R.T. -0.000 min
Lab File: BF135520.D
Acq: 29 Sep 2023 17:15

Tgt Ion:112 Resp: 823229
Ion Ratio Lower Upper
112 100
64 67.5 55.9 83.9
63 34.2 29.0 43.6





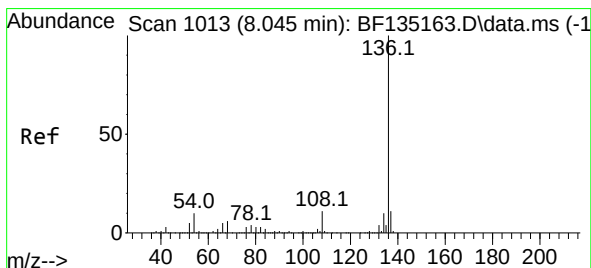
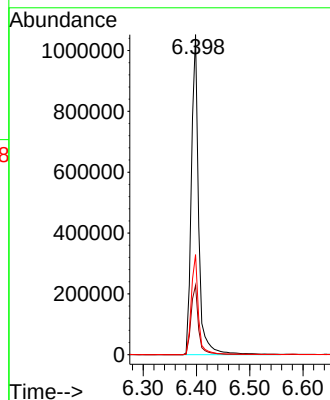
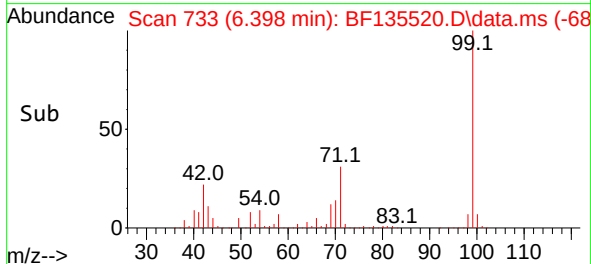
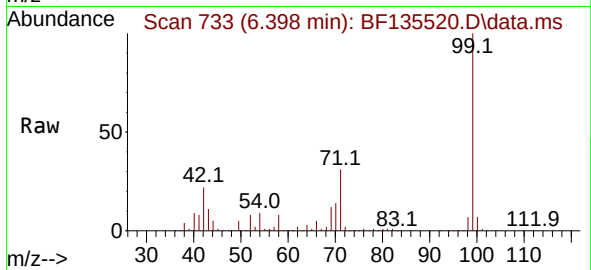
#7
Phenol-d6
Concen: 82.350 ng
RT: 6.398 min Scan# 71
Delta R.T. -0.006 min
Lab File: BF135520.D
Acq: 29 Sep 2023 17:15

Instrument :
BNA_F
ClientSampleId :
OR-03-09272023

Tgt Ion: 99 Resp: 99744
Ion Ratio Lower Upper
99 100
42 21.6 17.9 26.9
71 31.3 27.0 40.6

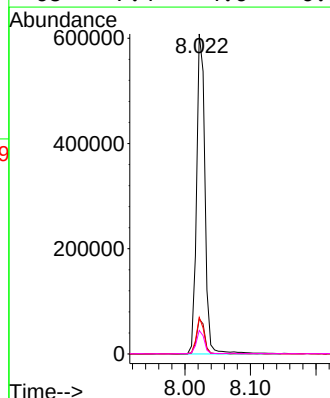
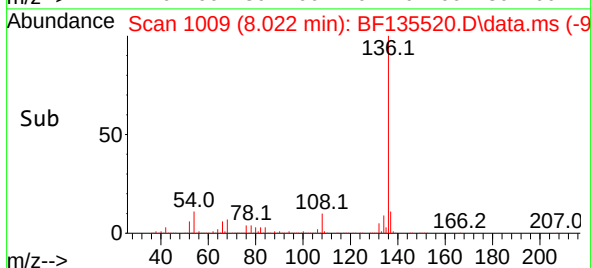
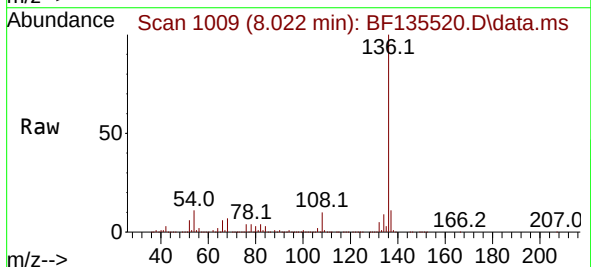
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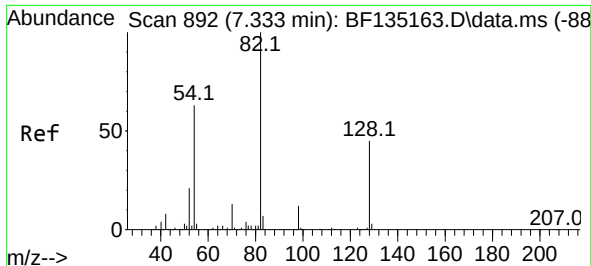
Reviewed By :Yogesh Patel 10/02/2023
Supervised By :mohammad ahmed 10/03/2023



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.022 min Scan# 1009
Delta R.T. -0.006 min
Lab File: BF135520.D
Acq: 29 Sep 2023 17:15

Tgt Ion:136 Resp: 541929
Ion Ratio Lower Upper
136 100
137 11.0 8.8 13.2
54 11.4 7.7 11.5
68 7.4 4.6 6.8#





#23

Nitrobenzene-d5

Concen: 60.244 ng

RT: 7.310 min Scan# 81

Delta R.T. -0.012 min

Lab File: BF135520.D

Acq: 29 Sep 2023 17:15

Instrument :

BNA_F

ClientSampleId :

OR-03-09272023

Tgt Ion: 82 Resp: 600925

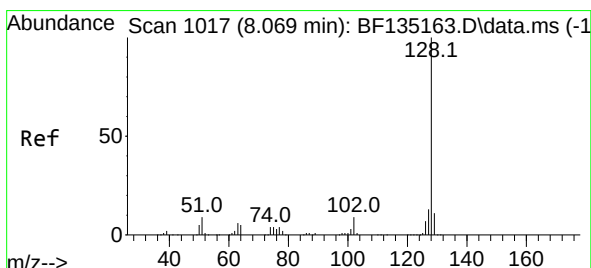
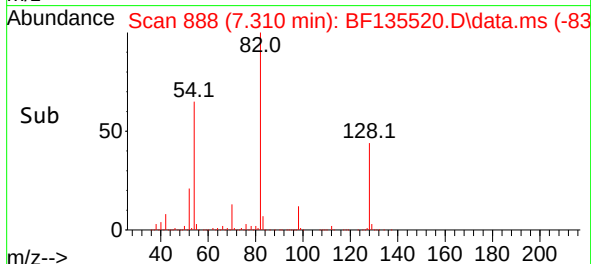
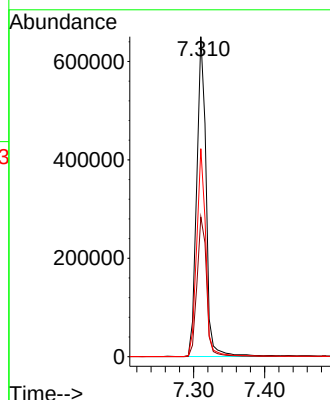
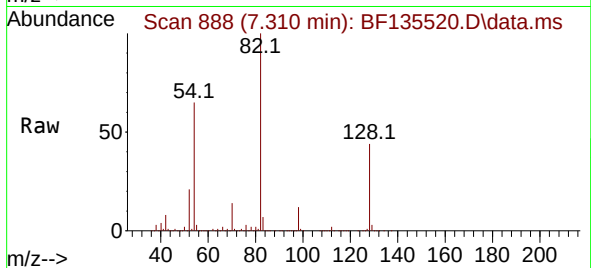
Ion	Ratio	Lower	Upper
82	100		
128	43.6	35.8	53.6
54	65.0	50.6	76.0

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#31

Naphthalene

Concen: 2.655 ng

RT: 8.045 min Scan# 1013

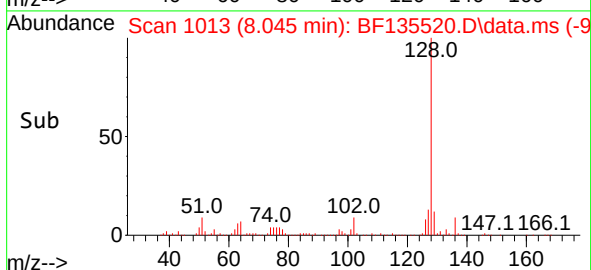
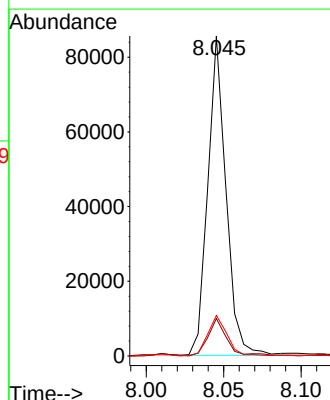
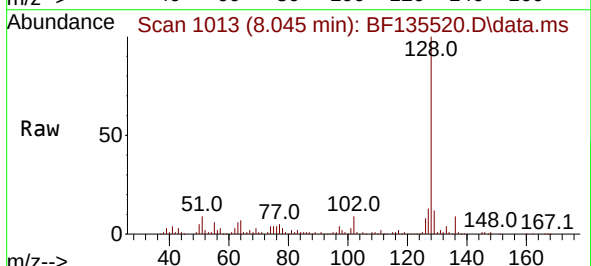
Delta R.T. -0.006 min

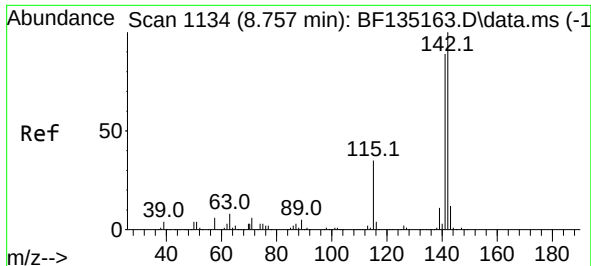
Lab File: BF135520.D

Acq: 29 Sep 2023 17:15

Tgt Ion:128 Resp: 69901

Ion	Ratio	Lower	Upper
128	100		
129	11.7	8.7	13.1
127	12.7	10.7	16.1





#37

2-Methylnaphthalene

Concen: 2.174 ng

RT: 8.739 min Scan# 1134

Delta R.T. -0.000 min

Lab File: BF135520.D

Acq: 29 Sep 2023 17:15

Instrument :

BNA_F

ClientSampleId :

OR-03-09272023

Tgt Ion:142 Resp: 3847

Ion Ratio Lower Upper

142 100

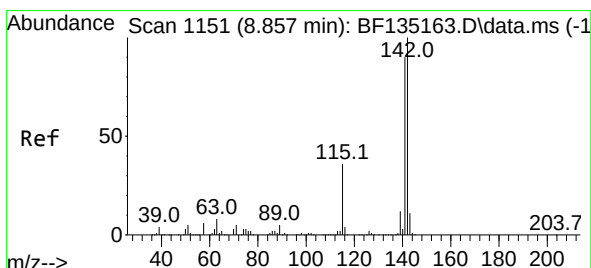
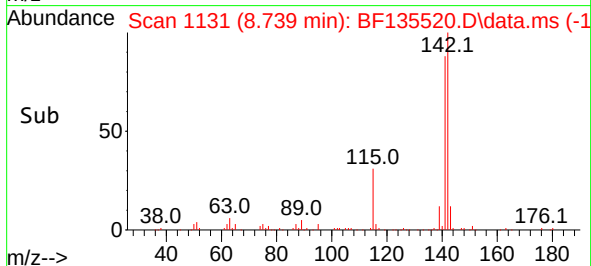
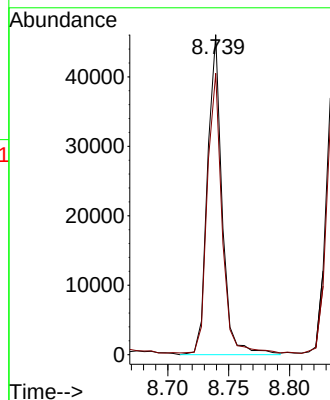
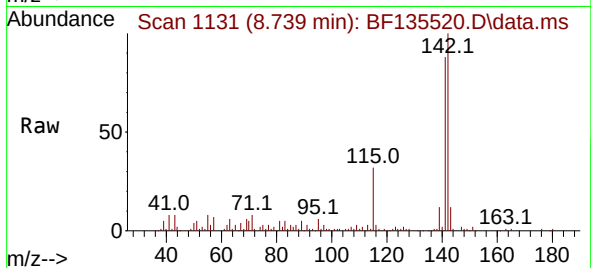
141 87.9 71.0 106.6

Manual Integrations

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Reviewed By :Yogesh Patel 10/02/2023

Supervised By :mohammad ahmed 10/03/2023



#38

1-Methylnaphthalene

Concen: 2.056 ng

RT: 8.833 min Scan# 1147

Delta R.T. -0.006 min

Lab File: BF135520.D

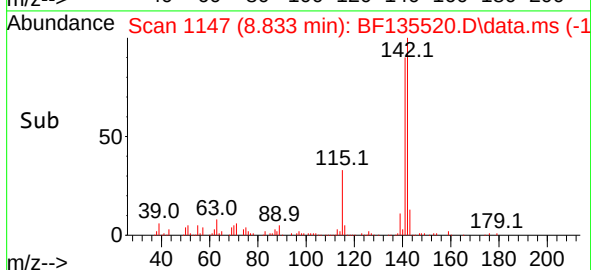
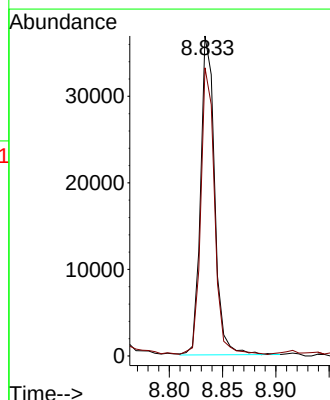
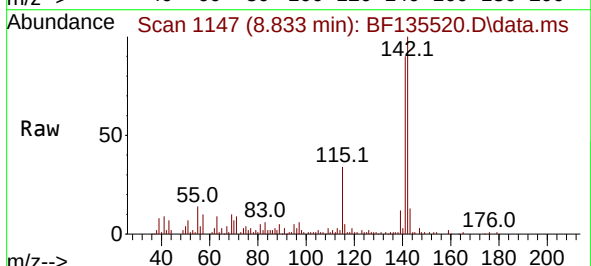
Acq: 29 Sep 2023 17:15

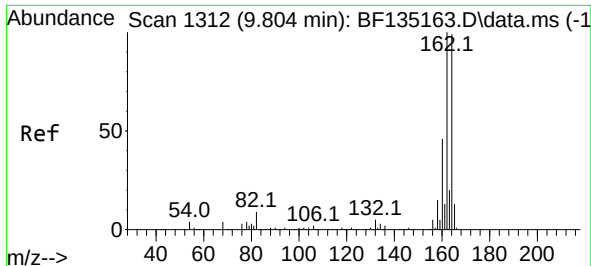
Tgt Ion:142 Resp: 34067

Ion Ratio Lower Upper

142 100

141 90.1 72.4 108.6





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.780 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF135520.D

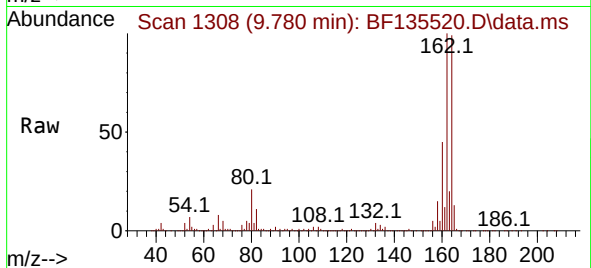
Acq: 29 Sep 2023 17:15

Instrument :

BNA_F

ClientSampleId :

OR-03-09272023



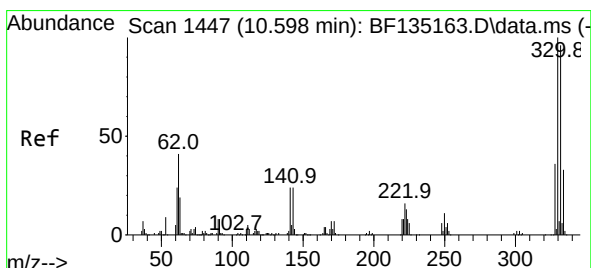
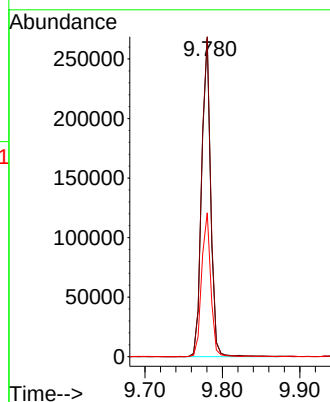
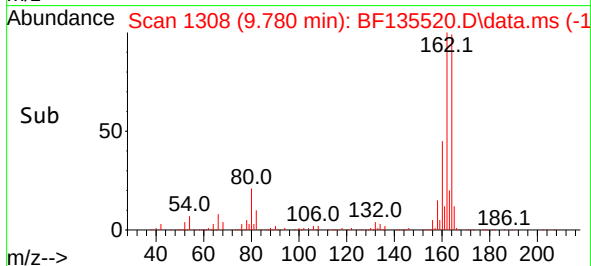
Tgt Ion:	164	Resp:	21568
Ion Ratio	Lower	Upper	
164	100		
162	100.5	81.0	121.4
160	45.2	37.0	55.4

Manual Integrations

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Supervised By :mohammad ahmed 10/03/2023



#42

2,4,6-Tribromophenol

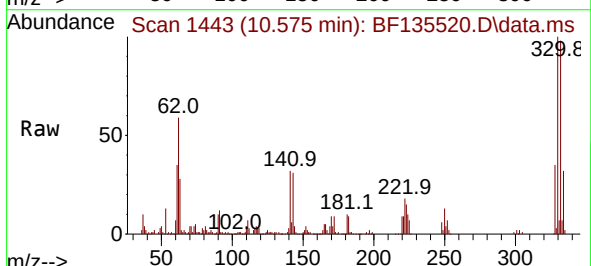
Concen: 64.664 ng

RT: 10.575 min Scan# 1443

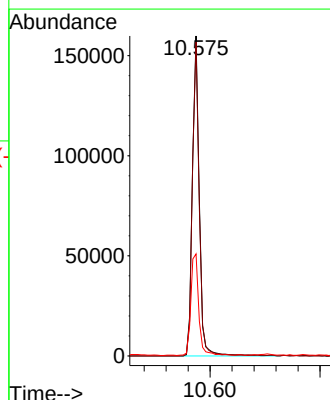
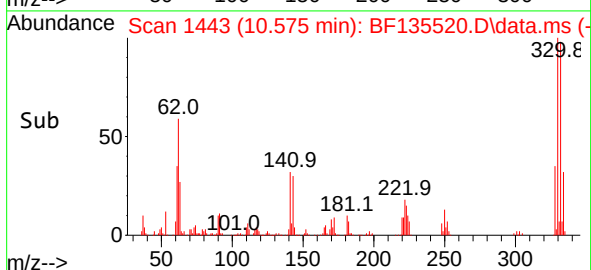
Delta R.T. -0.006 min

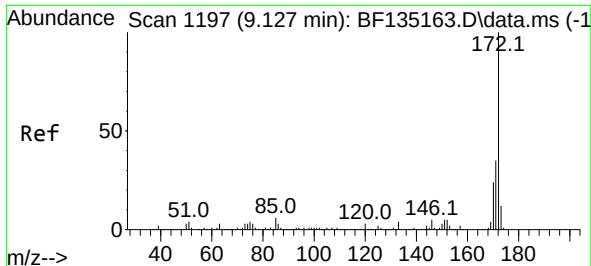
Lab File: BF135520.D

Acq: 29 Sep 2023 17:15



Tgt Ion:	330	Resp:	138598
Ion Ratio	Lower	Upper	
330	100		
332	96.8	77.3	115.9
141	36.5	25.8	38.8





#45

2-Fluorobiphenyl

Concen: 66.196 ng

RT: 9.104 min Scan# 1193

Delta R.T. -0.006 min

Lab File: BF135520.D

Acq: 29 Sep 2023 17:15

Instrument :

BNA_F

ClientSampleId :

OR-03-09272023

Tgt Ion:172 Resp: 94631

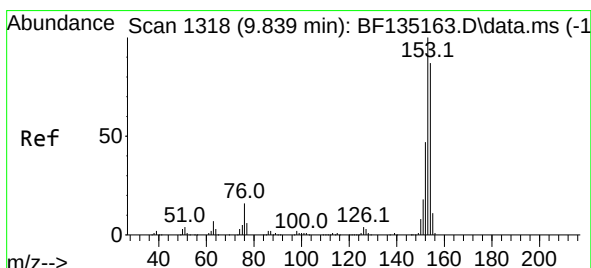
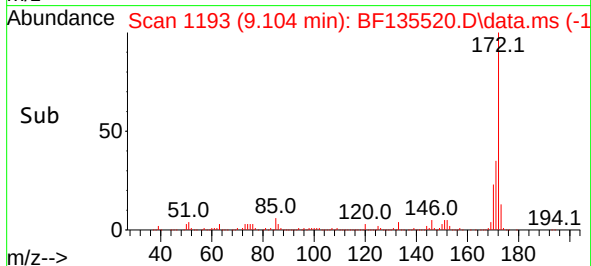
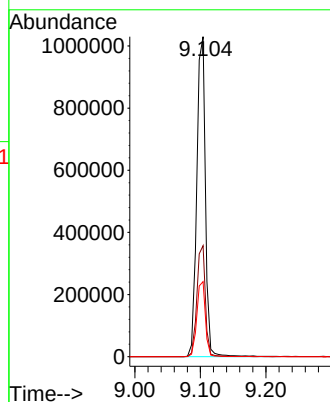
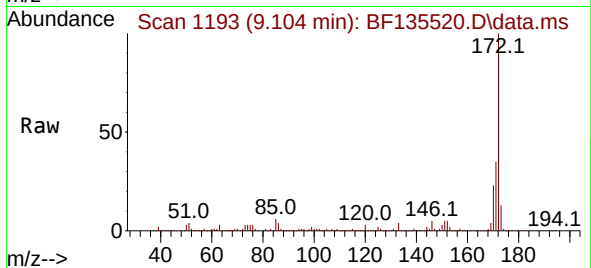
Ion	Ratio	Lower	Upper
172	100		
171	34.7	28.4	42.6
170	23.4	19.0	28.4

Manual Integrations

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Supervised By :mohammad ahmed 10/03/2023



#52

Acenaphthene

Concen: 7.699 ng

RT: 9.810 min Scan# 1313

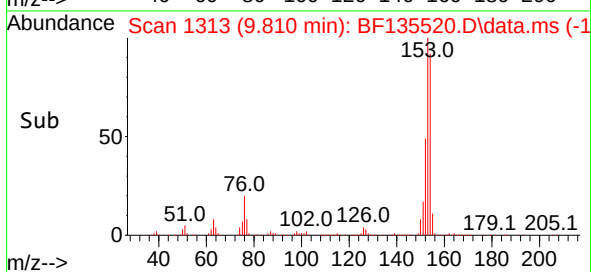
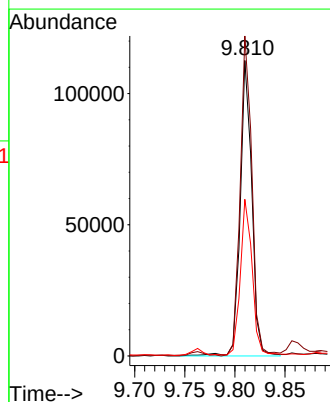
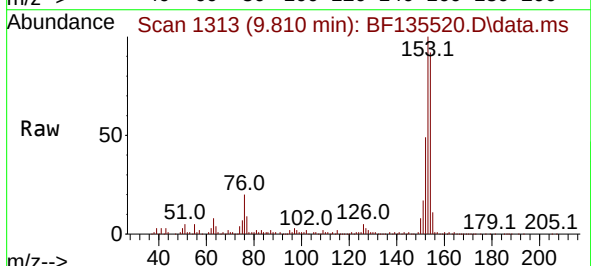
Delta R.T. -0.012 min

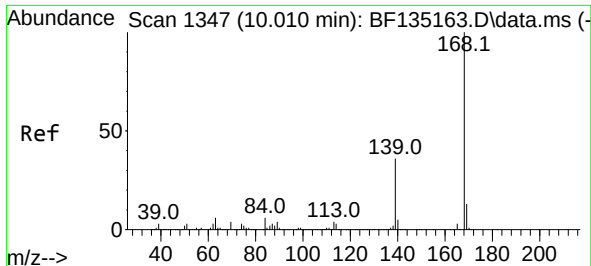
Lab File: BF135520.D

Acq: 29 Sep 2023 17:15

Tgt Ion:154 Resp: 90896

Ion	Ratio	Lower	Upper
154	100		
153	108.3	92.1	138.1
152	53.0	43.1	64.7





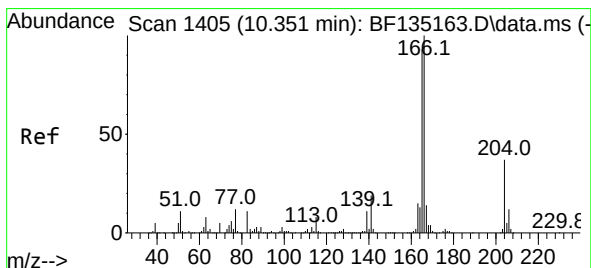
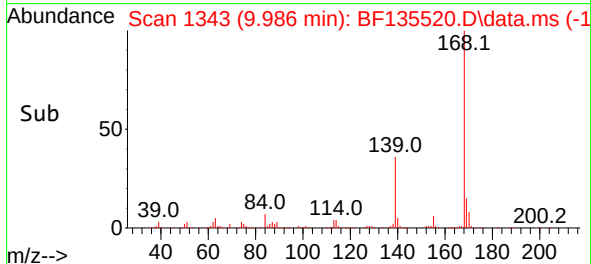
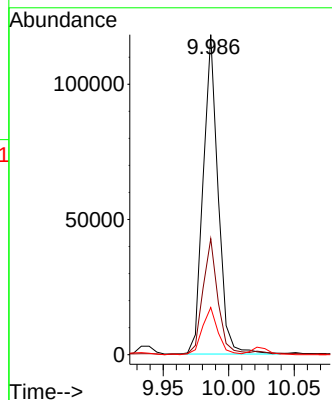
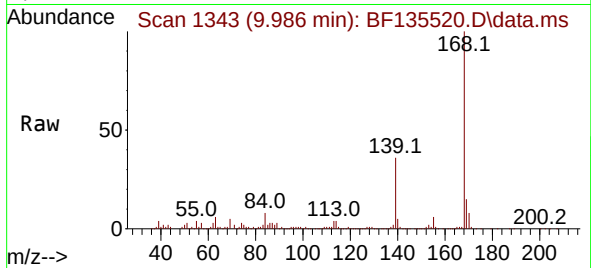
#55
Dibenzenofuran
Concen: 5.218 ng
RT: 9.986 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF135520.D
Acq: 29 Sep 2023 17:15

Instrument :
BNA_F
ClientSampleId :
OR-03-09272023

Tgt Ion:168 Resp: 9401
Ion Ratio Lower Upper
168 100
139 36.2 29.0 43.6
169 14.7 10.4 15.6

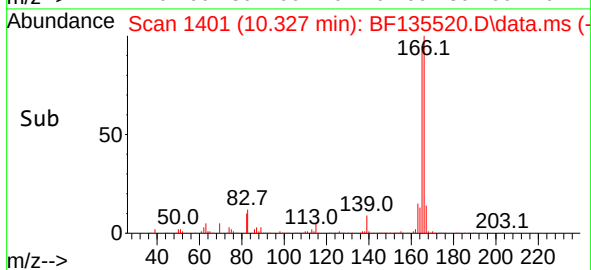
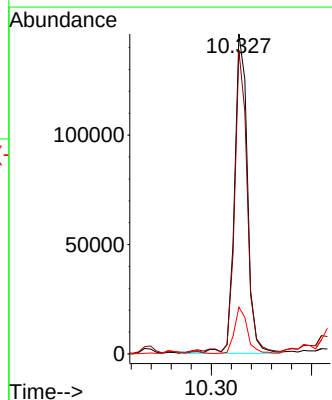
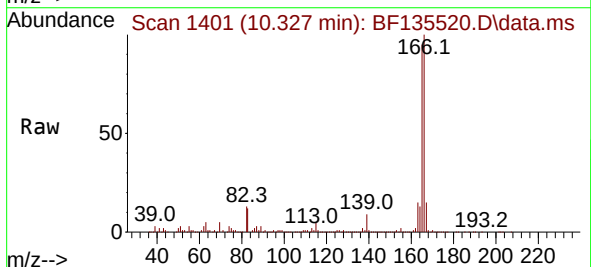
Manual Integrations
APPROVED

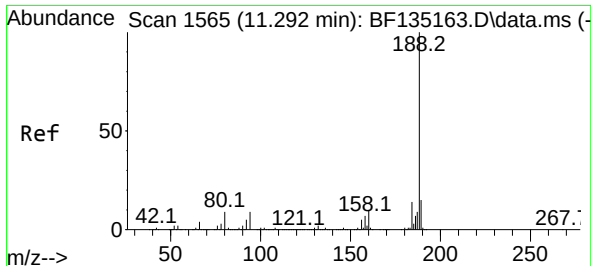
Reviewed By :Yogesh Patel 10/02/2023
Supervised By :mohammad ahmed 10/03/2023



#58
Fluorene
Concen: 9.454 ng
RT: 10.327 min Scan# 1401
Delta R.T. -0.012 min
Lab File: BF135520.D
Acq: 29 Sep 2023 17:15

Tgt Ion:166 Resp: 130948
Ion Ratio Lower Upper
166 100
165 94.9 74.3 111.5
167 14.6 10.9 16.3





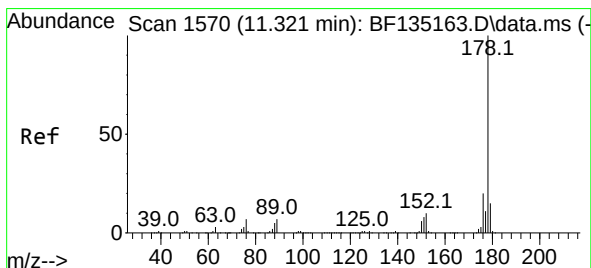
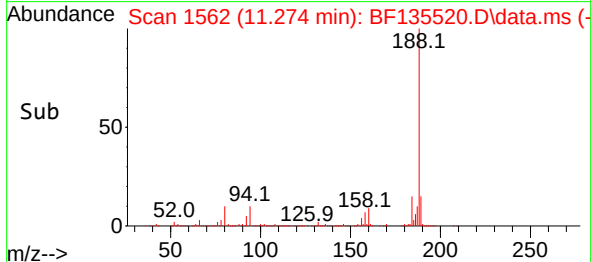
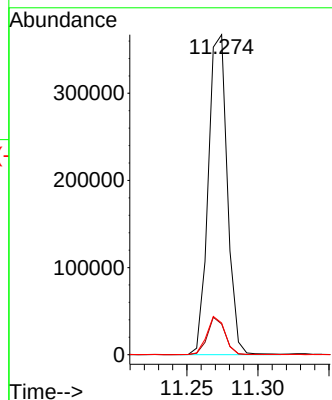
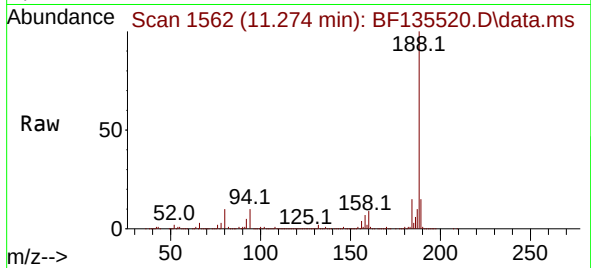
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.274 min Scan# 1562
Delta R.T. -0.000 min
Lab File: BF135520.D
Acq: 29 Sep 2023 17:15

Instrument :
BNA_F
ClientSampleId :
OR-03-09272023

Tgt Ion:188 Resp: 343749
Ion Ratio Lower Upper
188 100
94 9.6 7.0 10.6
80 9.9 7.5 11.3

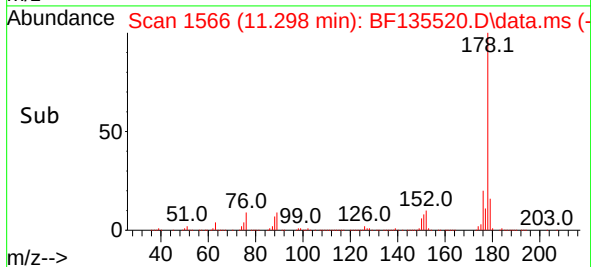
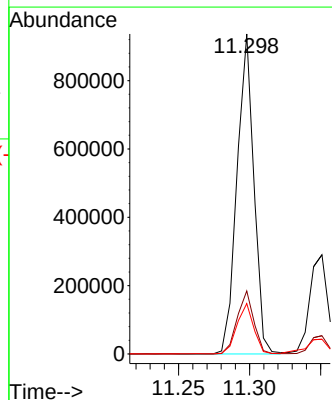
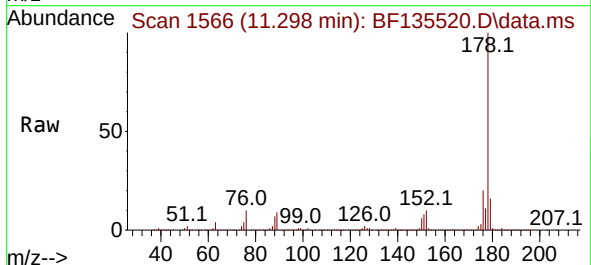
Manual Integrations
APPROVED

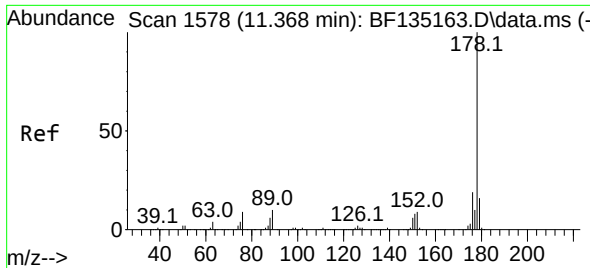
Reviewed By :Yogesh Patel 10/02/2023
Supervised By :mohammad ahmed 10/03/2023



#71
Phenanthrene
Concen: 47.681 ng
RT: 11.298 min Scan# 1566
Delta R.T. -0.006 min
Lab File: BF135520.D
Acq: 29 Sep 2023 17:15

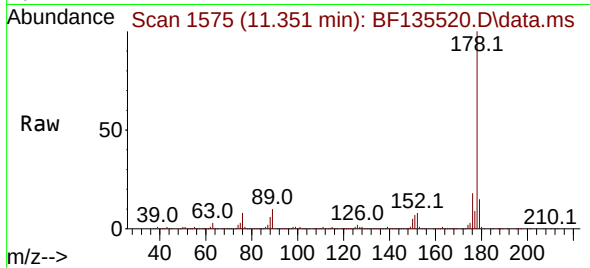
Tgt Ion:178 Resp: 775185
Ion Ratio Lower Upper
178 100
176 19.7 15.6 23.4
179 15.7 12.0 18.0





#72
 Anthracene
 Concen: 14.971 ng
 RT: 11.351 min Scan# 11
 Delta R.T. -0.006 min
 Lab File: BF135520.D
 Acq: 29 Sep 2023 17:15

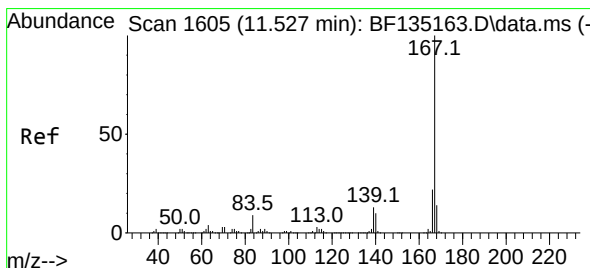
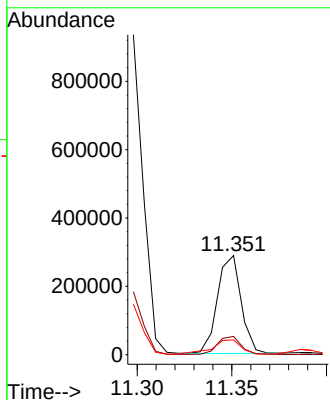
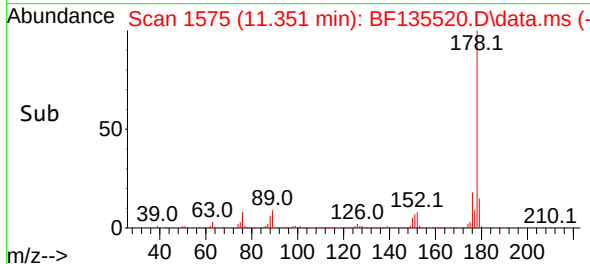
Instrument :
 BNA_F
 ClientSampleId :
 OR-03-09272023



Tgt Ion:178 Resp: 250192
 Ion Ratio Lower Upper
 178 100
 176 18.4 15.4 23.2
 179 14.9 12.6 19.0

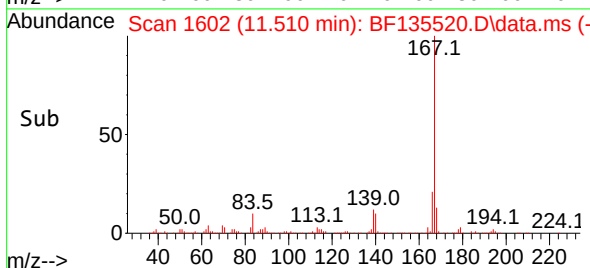
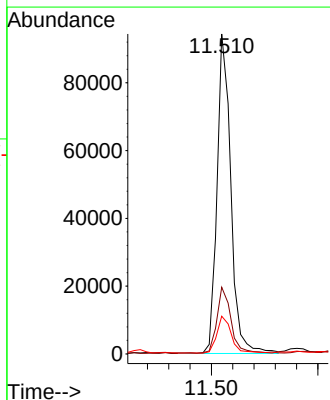
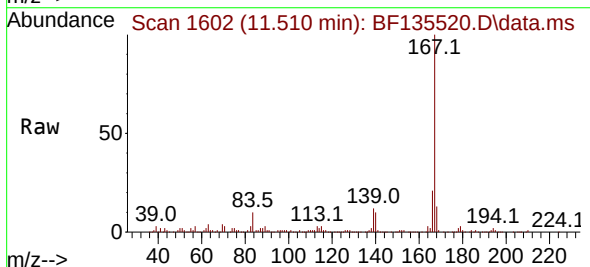
Manual Integrations
 APPROVED

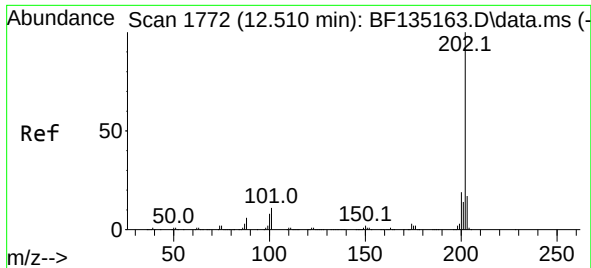
Reviewed By :Yogesh Patel 10/02/2023
 Supervised By :mohammad ahmed 10/03/2023



#73
 Carbazole
 Concen: 5.552 ng
 RT: 11.510 min Scan# 1602
 Delta R.T. -0.006 min
 Lab File: BF135520.D
 Acq: 29 Sep 2023 17:15

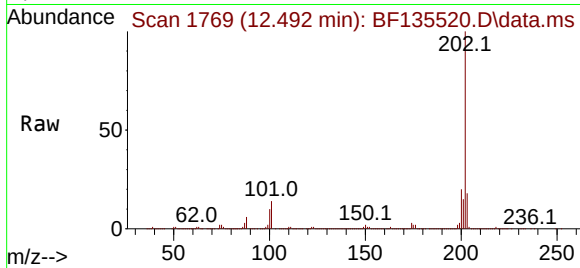
Tgt Ion:167 Resp: 84465
 Ion Ratio Lower Upper
 167 100
 166 20.9 17.4 26.0
 139 11.8 10.6 15.8





#75
Fluoranthene
Concen: 55.531 ng
RT: 12.492 min Scan# 1772
Delta R.T. -0.006 min
Lab File: BF135520.D
Acq: 29 Sep 2023 17:15

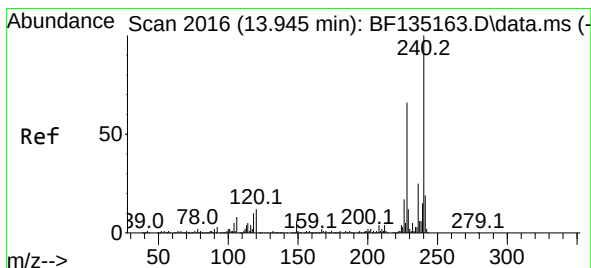
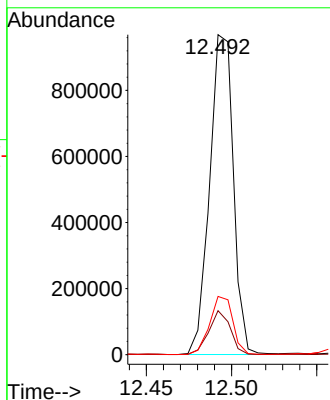
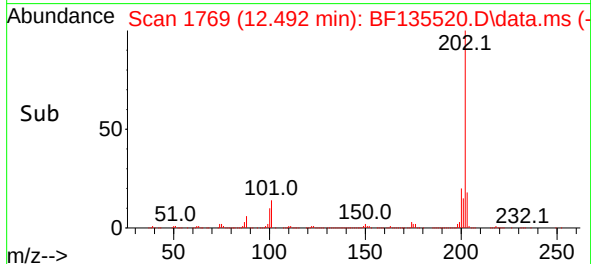
Instrument :
BNA_F
ClientSampleId :
OR-03-09272023



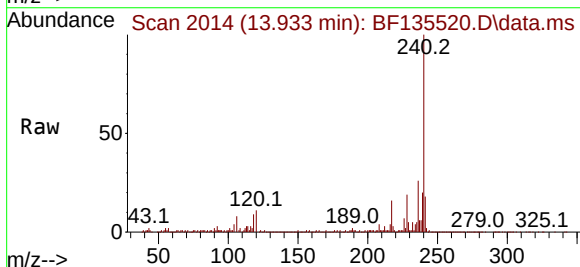
Tgt Ion:202 Resp: 94071
Ion Ratio Lower Upper
202 100
101 13.8 0.0 31.3
203 18.2 0.0 37.4

Manual Integrations
APPROVED

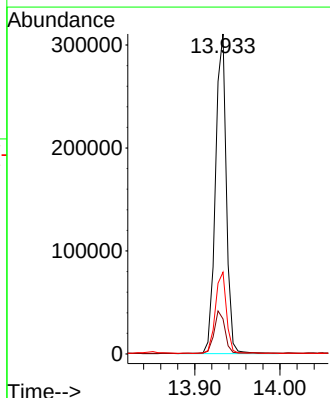
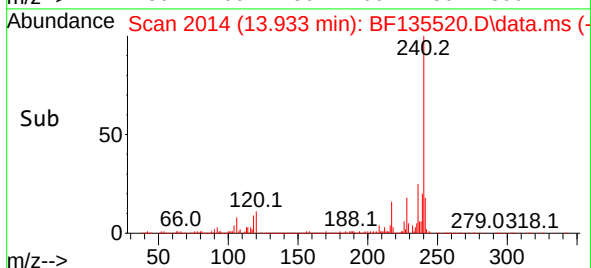
Reviewed By :Yogesh Patel 10/02/2023
Supervised By :mohammad ahmed 10/03/2023

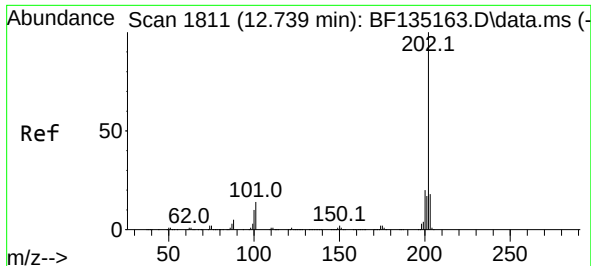


#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.933 min Scan# 2014
Delta R.T. -0.000 min
Lab File: BF135520.D
Acq: 29 Sep 2023 17:15



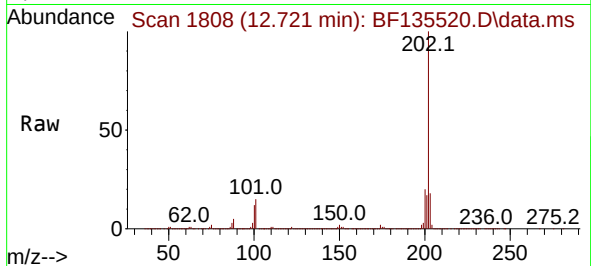
Tgt Ion:240 Resp: 273836
Ion Ratio Lower Upper
240 100
120 10.9 9.4 14.2
236 25.5 19.8 29.8





#78
Pyrene
Concen: 31.251 ng
RT: 12.721 min Scan# 1808
Delta R.T. -0.006 min
Lab File: BF135520.D
Acq: 29 Sep 2023 17:15

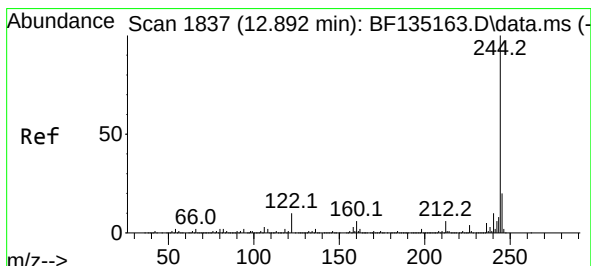
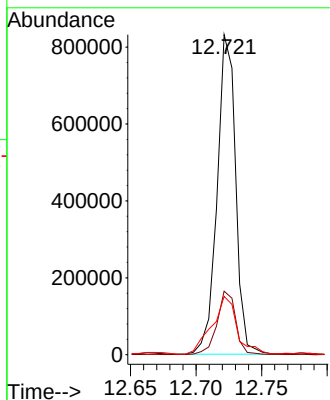
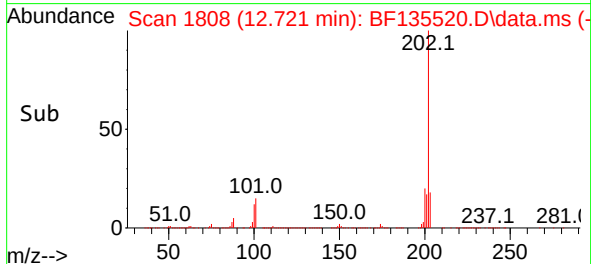
Instrument :
BNA_F
ClientSampleId :
OR-03-09272023



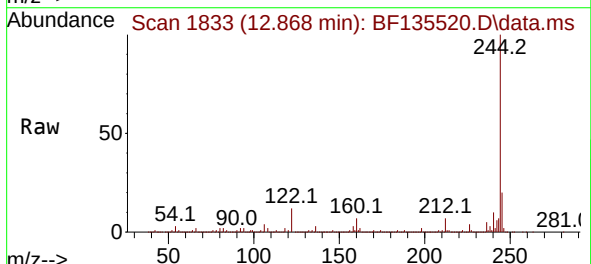
Tgt Ion:202 Resp: 81474
Ion Ratio Lower Upper
202 100
200 19.9 16.2 24.2
203 18.2 14.2 21.4

Manual Integrations
APPROVED

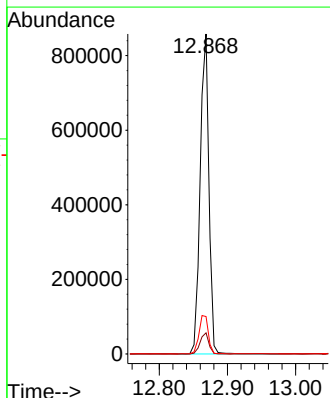
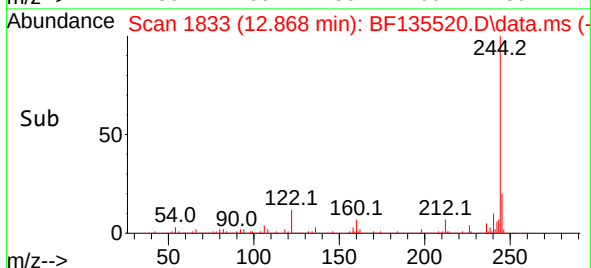
Reviewed By :Yogesh Patel 10/02/2023
Supervised By :mohammad ahmed 10/03/2023

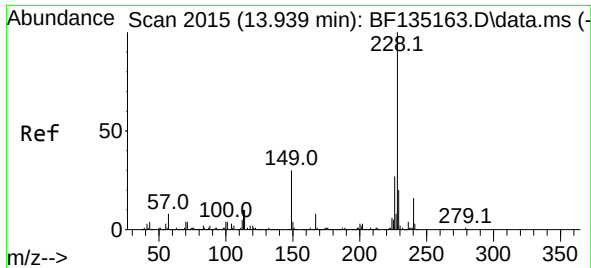


#79
Terphenyl-d14
Concen: 43.216 ng
RT: 12.868 min Scan# 1833
Delta R.T. -0.006 min
Lab File: BF135520.D
Acq: 29 Sep 2023 17:15



Tgt Ion:244 Resp: 763391
Ion Ratio Lower Upper
244 100
212 6.6 5.1 7.7
122 11.7 7.9 11.9





#81
Benzo(a)anthracene
Concen: 21.475 ng
RT: 13.921 min Scan# 2018
Delta R.T. -0.000 min
Lab File: BF135520.D
Acq: 29 Sep 2023 17:15

Instrument :

BNA_F

ClientSampleId :

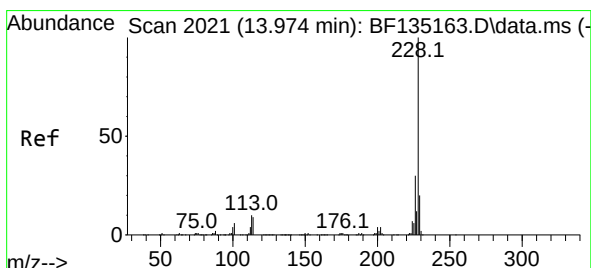
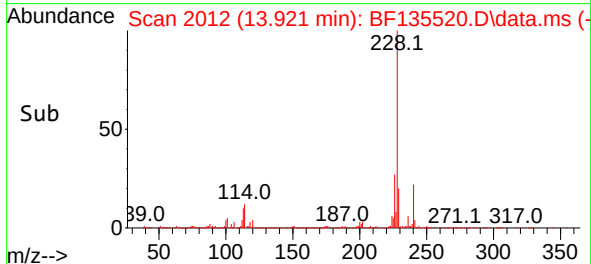
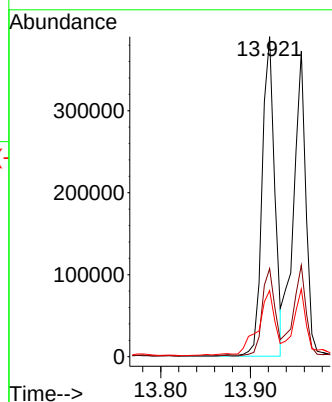
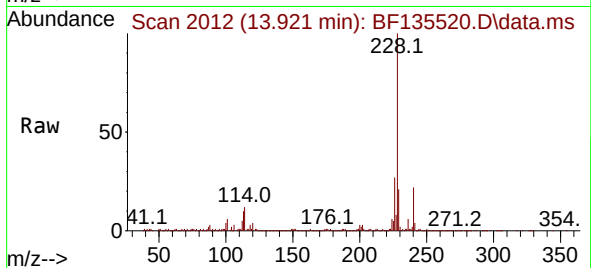
OR-03-09272023

Tgt Ion:228 Resp: 379725
Ion Ratio Lower Upper
228 100
226 27.5 21.7 32.5
229 20.6 15.8 23.8

Manual Integrations

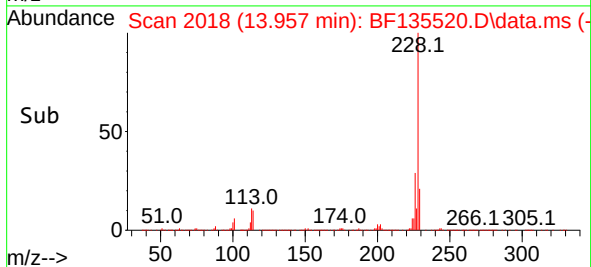
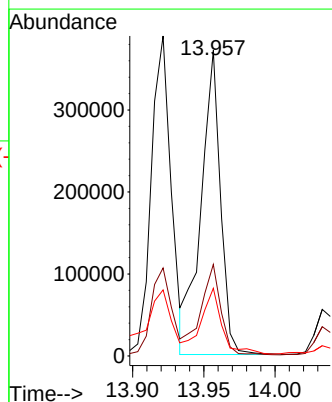
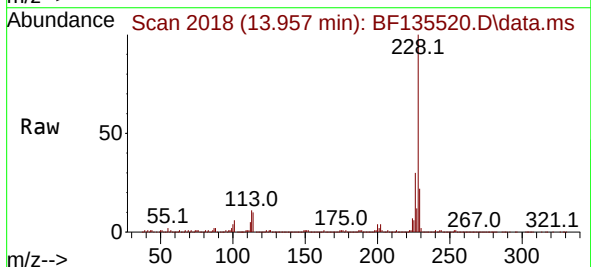
APPROVED

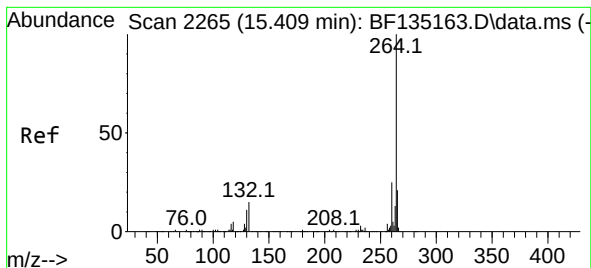
Reviewed By :Yogesh Patel 10/02/2023
Supervised By :mohammad ahmed 10/03/2023



#83
Chrysene
Concen: 20.140 ng m
RT: 13.957 min Scan# 2018
Delta R.T. -0.006 min
Lab File: BF135520.D
Acq: 29 Sep 2023 17:15

Tgt Ion:228 Resp: 354067
Ion Ratio Lower Upper
228 100
226 30.0 24.3 36.5
229 22.2 16.0 24.0





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.392 min Scan# 21

Delta R.T. -0.000 min

Lab File: BF135520.D

Acq: 29 Sep 2023 17:15

Instrument :

BNA_F

ClientSampleId :

OR-03-09272023

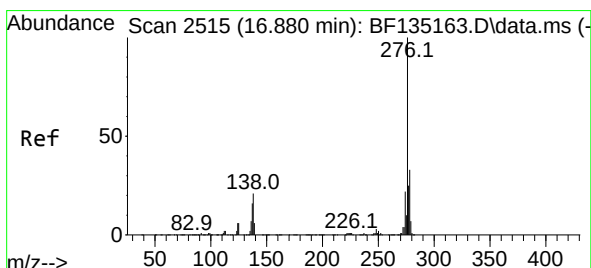
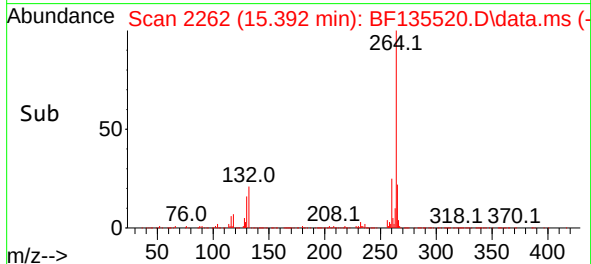
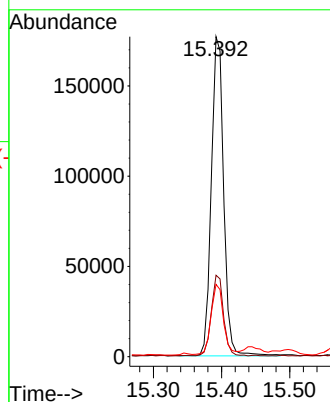
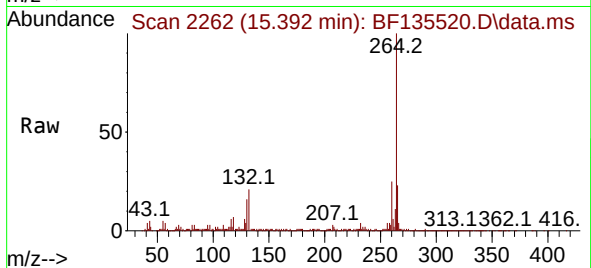
Tgt Ion:	264	Resp:	222784
Ion Ratio	Lower	Upper	
264	100		
260	25.5	19.8	29.6
265	22.6	17.0	25.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/02/2023

Supervised By :mohammad ahmed 10/03/2023



#87

Indeno(1,2,3-cd)pyrene

Concen: 7.314 ng

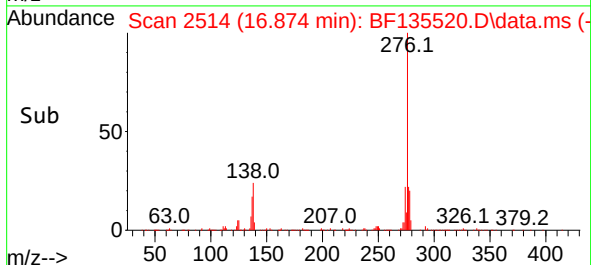
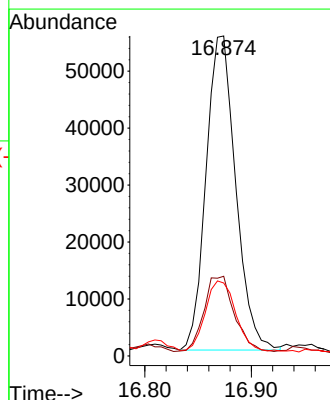
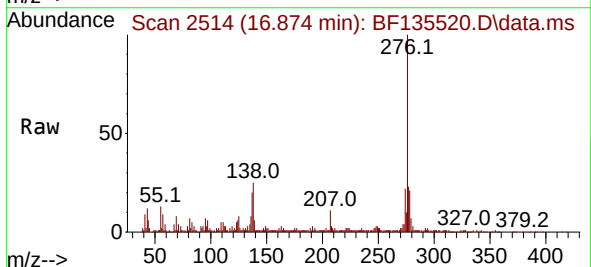
RT: 16.874 min Scan# 2514

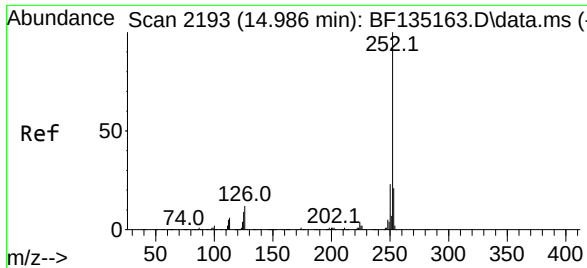
Delta R.T. -0.006 min

Lab File: BF135520.D

Acq: 29 Sep 2023 17:15

Tgt Ion:	276	Resp:	106844
Ion Ratio	Lower	Upper	
276	100		
138	24.3	19.2	28.8
277	23.5	19.7	29.5





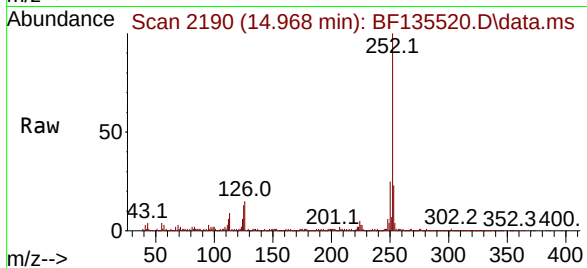
#88
Benzo(b)fluoranthene
Concen: 24.913 ng m
RT: 14.968 min Scan# 2193
Delta R.T. -0.000 min
Lab File: BF135520.D
Acq: 29 Sep 2023 17:15

Instrument :

BNA_F

ClientSampleId :

OR-03-09272023

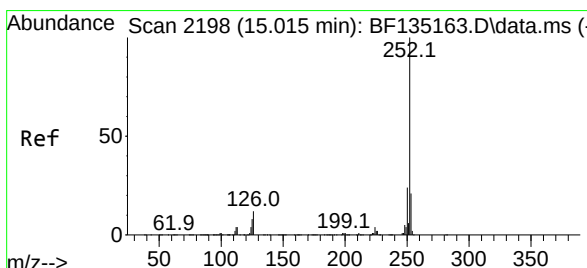
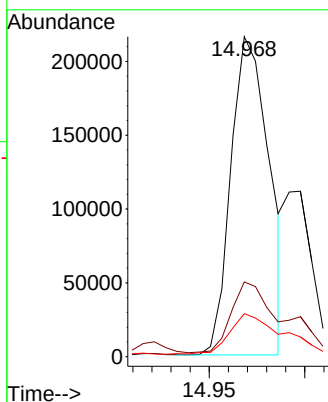
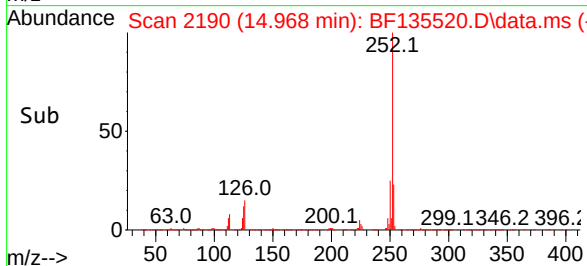


Tgt Ion:252 Resp: 300459
Ion Ratio Lower Upper
252 100
253 23.4 17.2 25.8
125 13.5 7.1 10.7

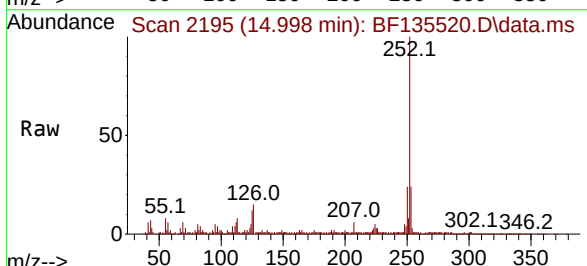
Manual Integrations

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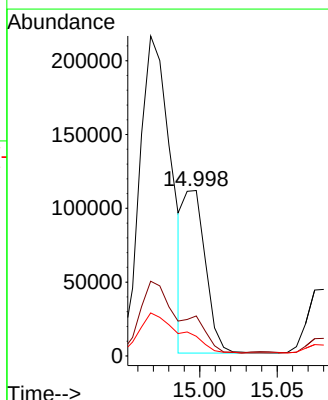
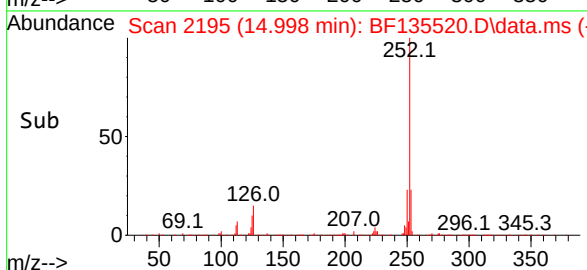
Reviewed By :Yogesh Patel 10/02/2023
Supervised By :mohammad ahmed 10/03/2023

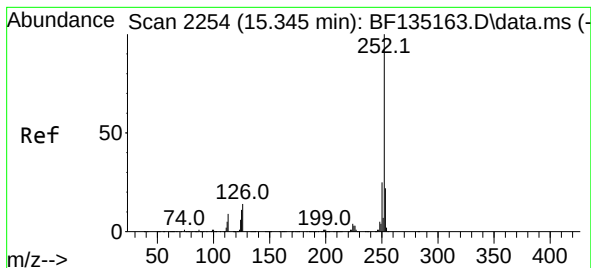


#89
Benzo(k)fluoranthene
Concen: 9.068 ng m
RT: 14.998 min Scan# 2195
Delta R.T. -0.000 min
Lab File: BF135520.D
Acq: 29 Sep 2023 17:15



Tgt Ion:252 Resp: 108029
Ion Ratio Lower Upper
252 100
253 24.2 17.4 26.0
125 11.9 7.2 10.8





#90

Benzo(a)pyrene

Concen: 18.999 ng

RT: 15.333 min Scan# 21

Delta R.T. -0.000 min

Lab File: BF135520.D

Acq: 29 Sep 2023 17:15

Instrument :

BNA_F

ClientSampleId :

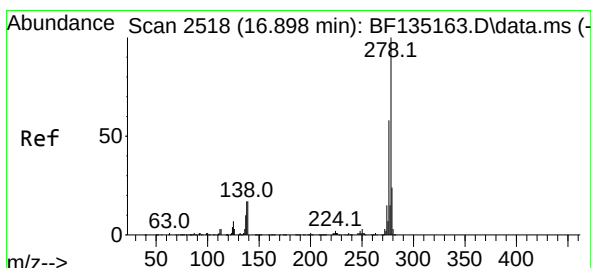
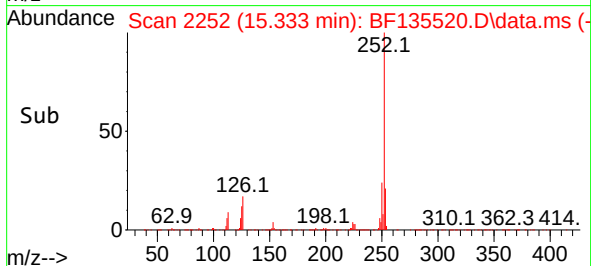
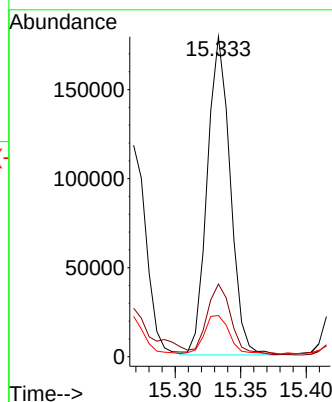
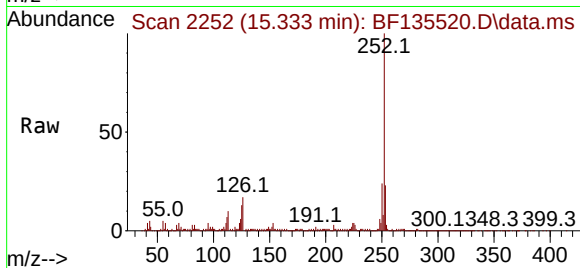
OR-03-09272023

Tgt Ion:252 Resp: 218504
 Ion Ratio Lower Upper
 252 100
 253 22.7 17.5 26.3
 125 12.9 9.2 13.8

Manual Integrations

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Reviewed By :Yogesh Patel 10/02/2023
 Supervised By :mohammad ahmed 10/03/2023



#91

Dibenzo(a,h)anthracene

Concen: 2.221 ng

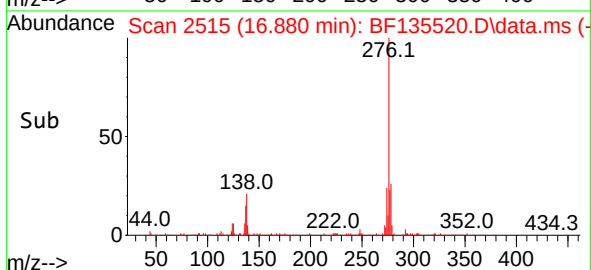
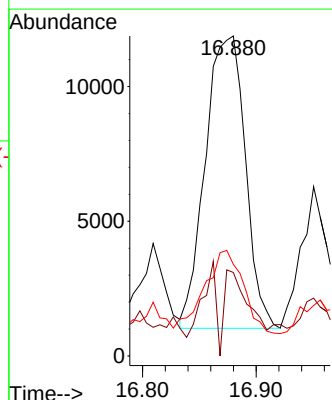
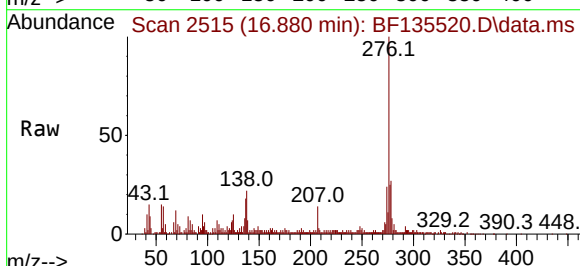
RT: 16.880 min Scan# 2515

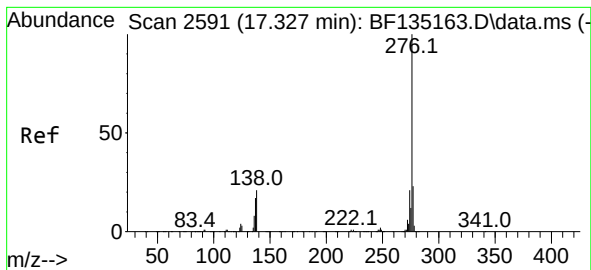
Delta R.T. -0.006 min

Lab File: BF135520.D

Acq: 29 Sep 2023 17:15

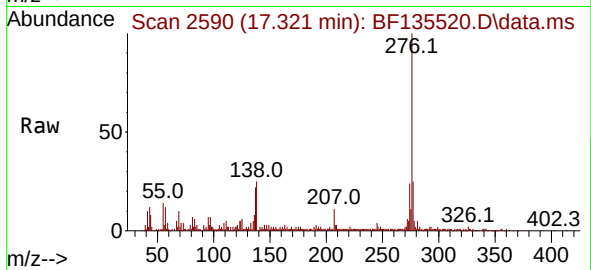
Tgt Ion:278 Resp: 26543
 Ion Ratio Lower Upper
 278 100
 139 26.1 13.4 20.0#
 279 28.6 19.0 28.6#





#92
 Benzo(g,h,i)perylene
 Concen: 7.946 ng
 RT: 17.321 min Scan# 21
 Delta R.T. -0.000 min
 Lab File: BF135520.D
 Acq: 29 Sep 2023 17:15

Instrument :
 BNA_F
 ClientSampleId :
 OR-03-09272023



Tgt Ion: 276 Resp: 9918
 Ion Ratio Lower Upper
 276 100
 277 24.8 18.8 28.2
 138 24.8 16.9 25.3

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 10/02/2023
 Supervised By :mohammad ahmed 10/03/2023

