

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF090523\
 Data File : BF135095.D
 Acq On : 05 Sep 2023 14:59
 Operator : CG\JU
 Sample : 04110-17
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP-24(4-5)

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 09/06/2023
 Supervised By :mohammad ahmed 09/07/2023

Quant Time: Sep 05 18:49:51 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF083023.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Aug 31 03:48:08 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.769	152	94323	20.000	ng	0.00
21) Naphthalene-d8	8.051	136	365232	20.000	ng	0.00
39) Acenaphthene-d10	9.810	164	174616	20.000	ng	0.00
64) Phenanthrene-d10	11.304	188	271284	20.000	ng	0.00
76) Chrysene-d12	13.962	240	183415	20.000	ng	0.00
86) Perylene-d12	15.433	264	221413	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.398	112	444055	72.718	ng	0.00
7) Phenol-d6	6.410	99	555870	73.031	ng	0.00
23) Nitrobenzene-d5	7.333	82	383287	58.958	ng	-0.01
42) 2,4,6-Tribromophenol	10.598	330	114725	61.936	ng	-0.01
45) 2-Fluorobiphenyl	9.127	172	624193	58.199	ng	-0.01
79) Terphenyl-d14	12.898	244	426409	37.939	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.069	128	207091	11.607	ng	100
37) 2-Methylnaphthalene	8.763	142	45398	3.814	ng	100
38) 1-Methylnaphthalene	8.863	142	27753	2.492	ng	96
52) Acenaphthene	9.839	154	136957	14.171	ng	98
55) Dibenzofuran	10.010	168	75624	5.424	ng	95
58) Fluorene	10.357	166	85207	8.017	ng	98
71) Phenanthrene	11.327	178	803004	57.375	ng	99
72) Anthracene	11.374	178	221481	15.489	ng	99
73) Carbazole	11.533	167	104992	8.513	ng	99
75) Fluoranthene	12.527	202	975272	68.922	ng	99
78) Pyrene	12.757	202	850261	48.825	ng	100
81) Benzo(a)anthracene	13.951	228	614414	49.108	ng	98
83) Chrysene	13.986	228	503906	40.982	ng	96
87) Indeno(1,2,3-cd)pyrene	16.909	276	370260m	24.827	ng	
88) Benzo(b)fluoranthene	15.009	252	836502m	60.719	ng	
89) Benzo(k)fluoranthene	15.033	252	300491m	22.577	ng	
90) Benzo(a)pyrene	15.374	252	651520	50.908	ng	97
91) Dibenzo(a,h)anthracene	16.921	278	91264	7.556	ng	95
92) Benzo(g,h,i)perylene	17.362	276	334990	26.665	ng	96

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

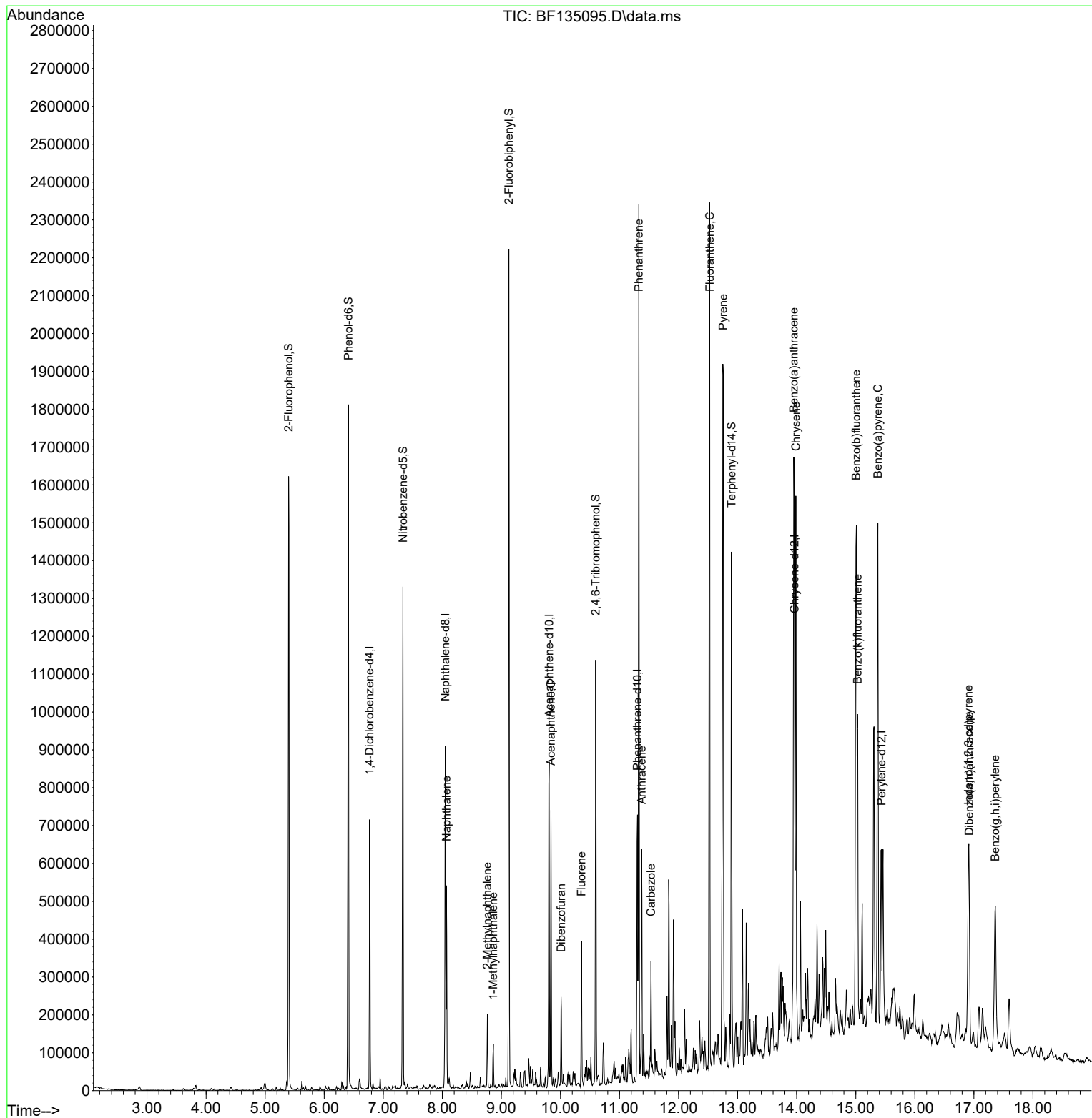
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF090523\
Data File : BF135095.D
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Sample : 04110-17
Misc :
ALS Vial : 9 Sample Multiplier: 1

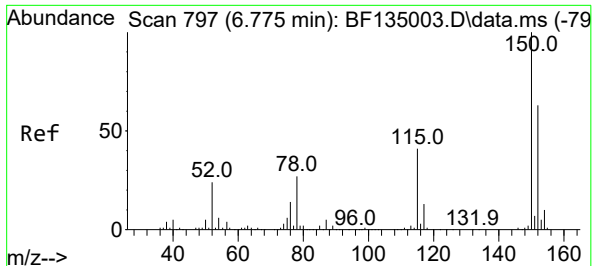
Instrument :
BNA_F
ClientSampleId :
TP-24(4-5)

Quant Time: Sep 05 18:49:51 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF083023.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 31 03:48:08 2023
Response via : Initial Calibration

Manual Integrations
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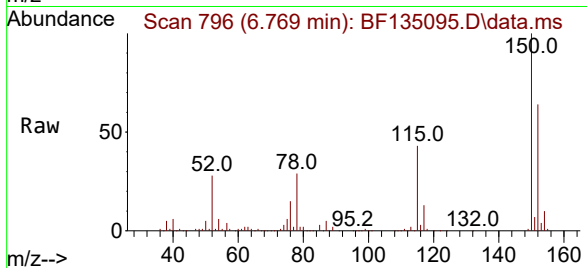
Reviewed By :Yogesh Patel 09/06/2023
Supervised By :mohammad ahmed 09/07/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.769 min Scan# 797
Delta R.T. -0.006 min
Lab File: BF135095.D
Acq: 05 Sep 2023 14:59

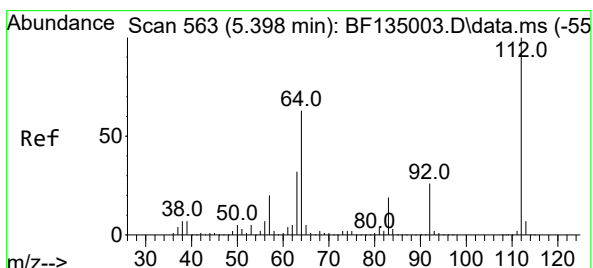
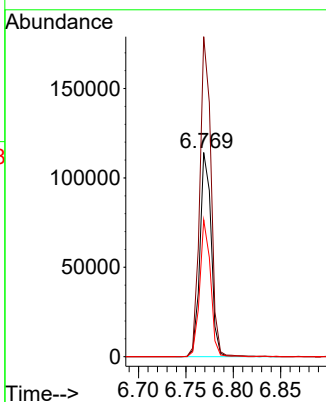
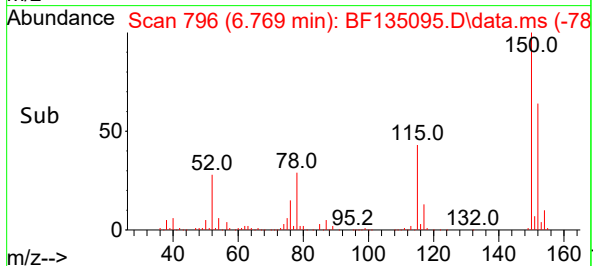
Instrument :
BNA_F
ClientSampleId :
TP-24(4-5)



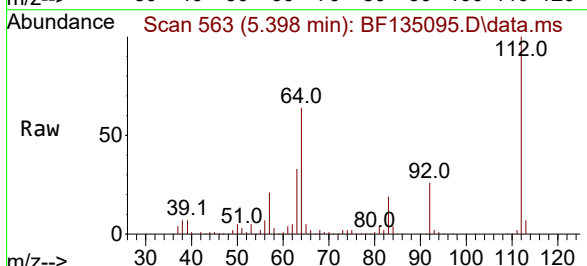
Tgt Ion:152 Resp: 94320
Ion Ratio Lower Upper
152 100
150 156.7 126.2 189.4
115 67.0 51.2 76.8

Manual Integrations
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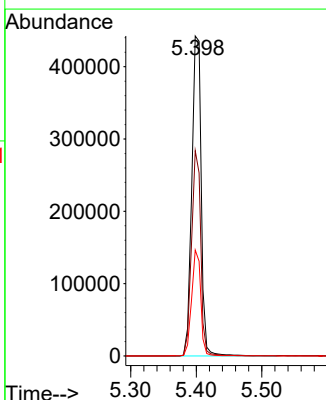
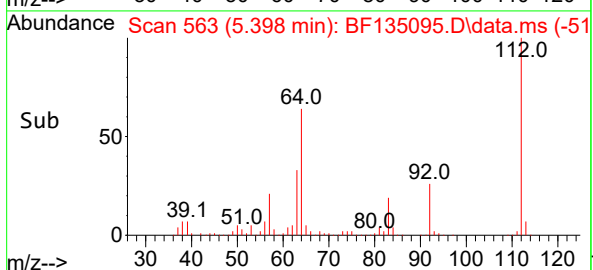
Reviewed By :Yogesh Patel 09/06/2023
Supervised By :mohammad ahmed 09/07/2023

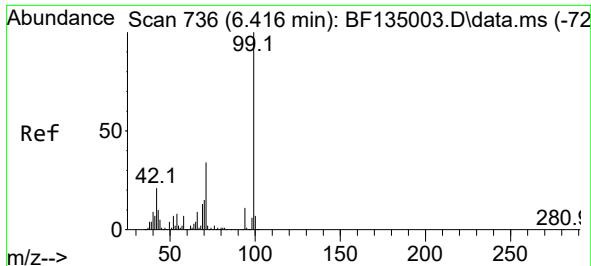


#5
2-Fluorophenol
Concen: 72.718 ng
RT: 5.398 min Scan# 563
Delta R.T. -0.000 min
Lab File: BF135095.D
Acq: 05 Sep 2023 14:59



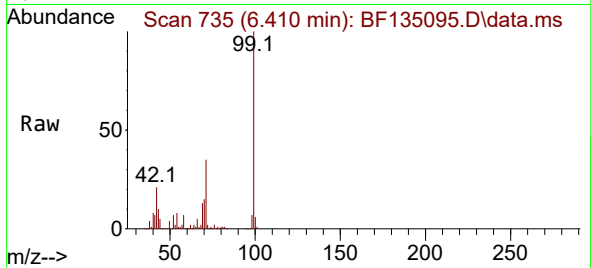
Tgt Ion:112 Resp: 444055
Ion Ratio Lower Upper
112 100
64 64.2 50.5 75.7
63 33.1 25.9 38.9





#7
Phenol-d6
Concen: 73.031 ng
RT: 6.410 min Scan# 71
Delta R.T. -0.006 min
Lab File: BF135095.D
Acq: 05 Sep 2023 14:59

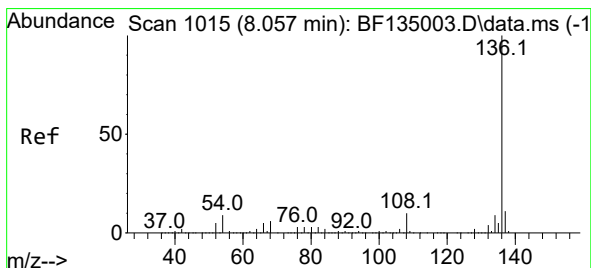
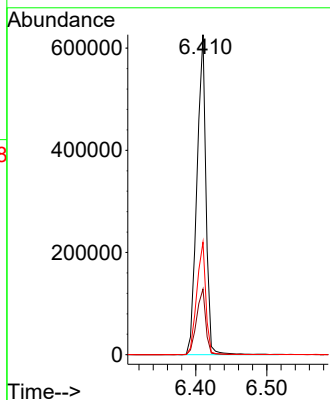
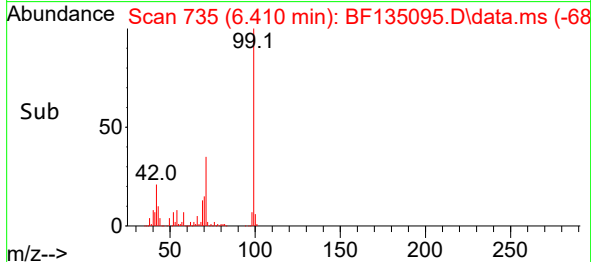
Instrument :
BNA_F
ClientSampleId :
TP-24(4-5)



Tgt Ion: 99 Resp: 555870
Ion Ratio Lower Upper
99 100
42 20.5 16.6 25.0
71 35.1 27.0 40.6

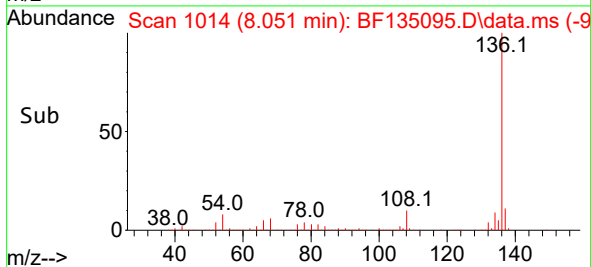
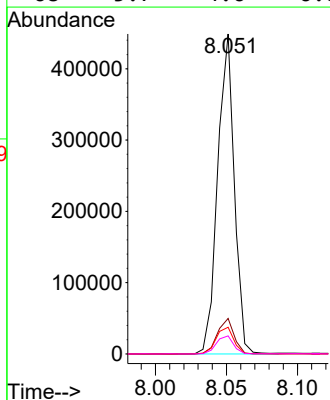
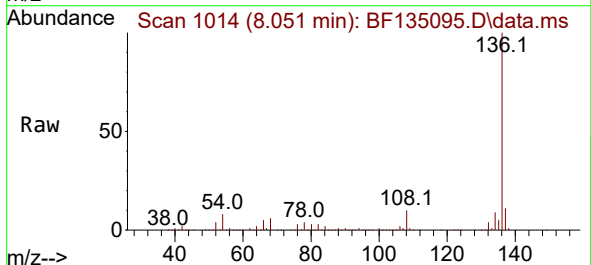
Manual Integrations
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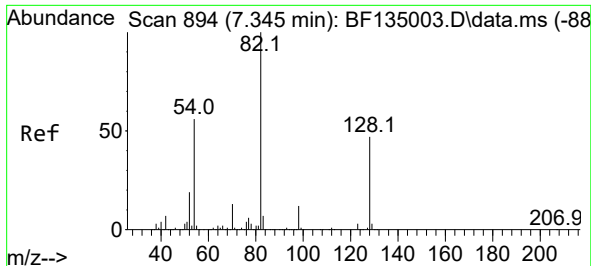
Reviewed By :Yogesh Patel 09/06/2023
Supervised By :mohammad ahmed 09/07/2023



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.051 min Scan# 1014
Delta R.T. -0.006 min
Lab File: BF135095.D
Acq: 05 Sep 2023 14:59

Tgt Ion:136 Resp: 365232
Ion Ratio Lower Upper
136 100
137 11.1 8.8 13.2
54 8.3 7.0 10.4
68 5.7 4.6 6.8





#23

Nitrobenzene-d5

Concen: 58.958 ng

RT: 7.333 min Scan# 894

Delta R.T. -0.012 min

Lab File: BF135095.D

Acq: 05 Sep 2023 14:59

Instrument :

BNA_F

ClientSampleId :

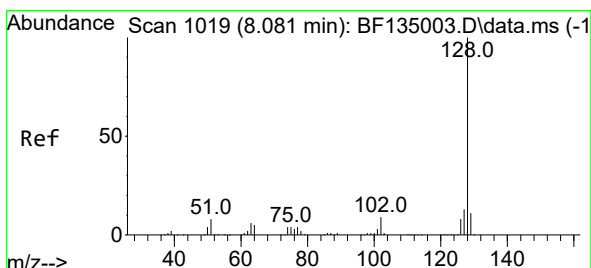
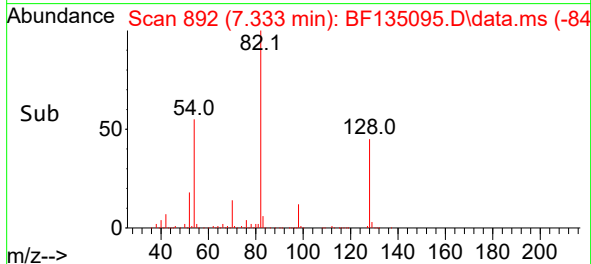
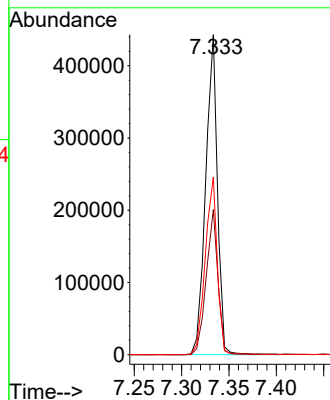
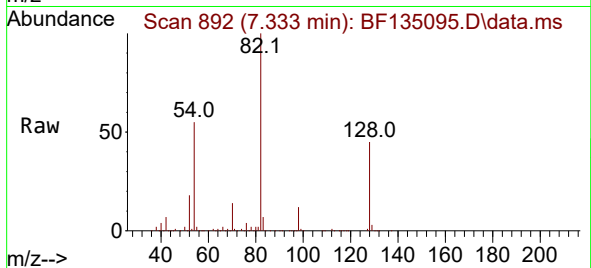
TP-24(4-5)

Tgt Ion:	82	Resp:	38328
Ion Ratio	Lower	Upper	
82	100		
128	45.4	37.8	56.8
54	55.5	45.0	67.6

Manual Integrations

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Reviewed By :Yogesh Patel 09/06/2023
Supervised By :mohammad ahmed 09/07/2023



#31

Naphthalene

Concen: 11.607 ng

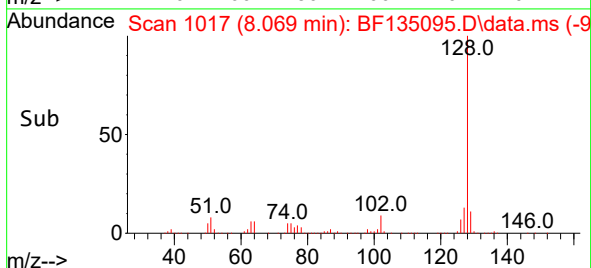
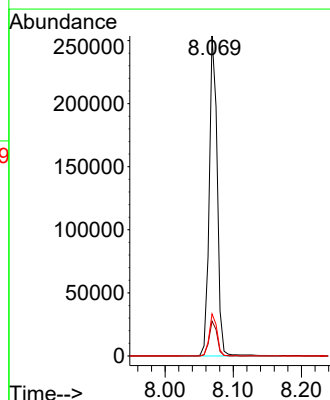
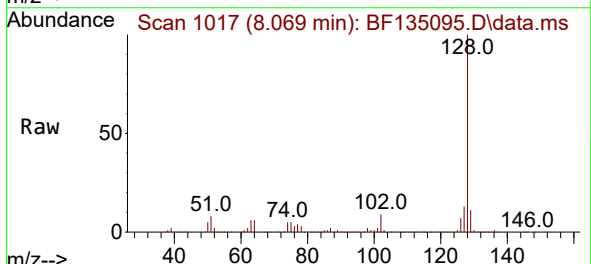
RT: 8.069 min Scan# 1017

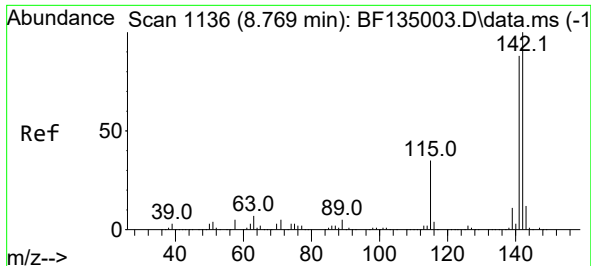
Delta R.T. -0.012 min

Lab File: BF135095.D

Acq: 05 Sep 2023 14:59

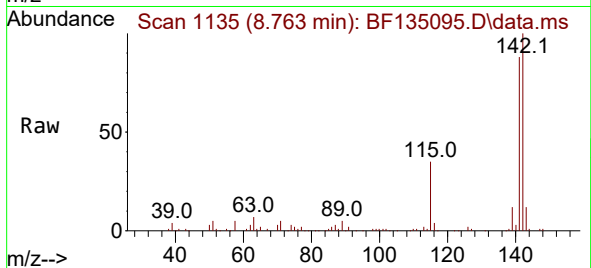
Tgt Ion:	128	Resp:	207091
Ion Ratio	Lower	Upper	
128	100		
129	10.9	8.6	13.0
127	13.1	10.6	16.0





#37
2-Methylnaphthalene
Concen: 3.814 ng
RT: 8.763 min Scan# 1135
Delta R.T. -0.006 min
Lab File: BF135095.D
Acq: 05 Sep 2023 14:59

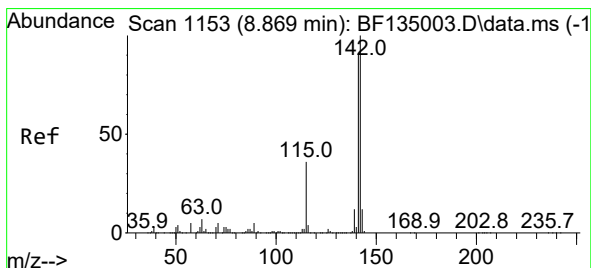
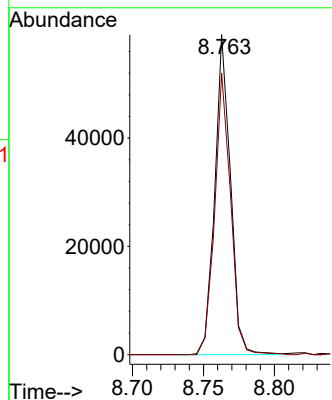
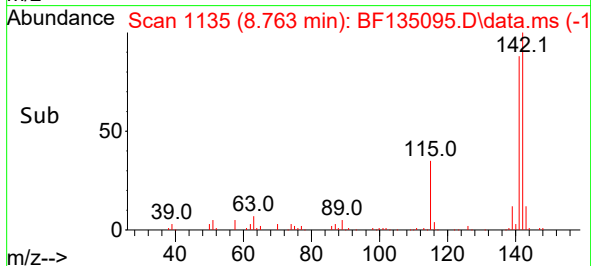
Instrument :
BNA_F
ClientSampleId :
TP-24(4-5)



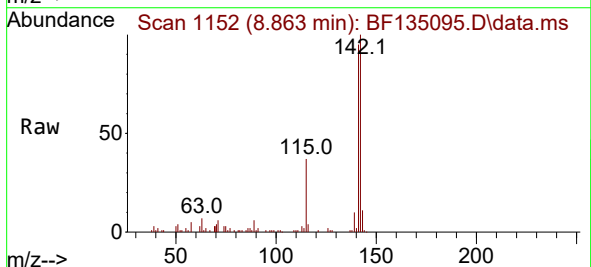
Tgt Ion:142 Resp: 45398
Ion Ratio Lower Upper
142 100
141 88.0 70.7 106.1

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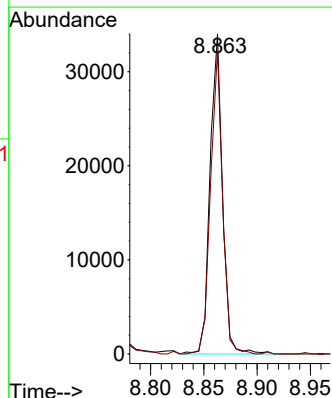
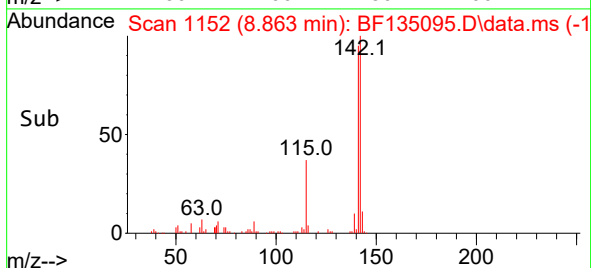
Reviewed By :Yogesh Patel 09/06/2023
Supervised By :mohammad ahmed 09/07/2023

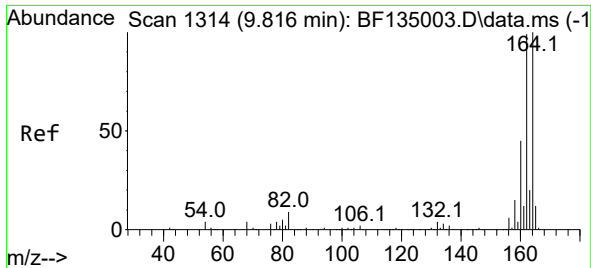


#38
1-Methylnaphthalene
Concen: 2.492 ng
RT: 8.863 min Scan# 1152
Delta R.T. -0.006 min
Lab File: BF135095.D
Acq: 05 Sep 2023 14:59



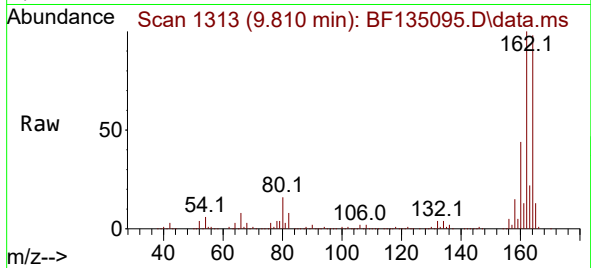
Tgt Ion:142 Resp: 27753
Ion Ratio Lower Upper
142 100
141 94.8 73.0 109.4





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.810 min Scan# 1314
Delta R.T. -0.006 min
Lab File: BF135095.D
Acq: 05 Sep 2023 14:59

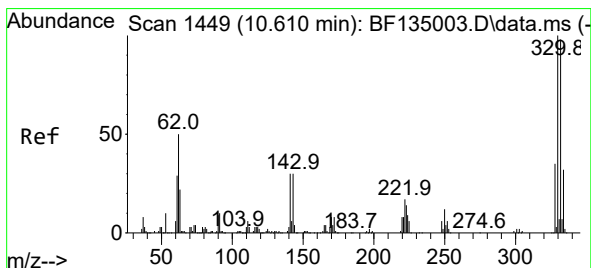
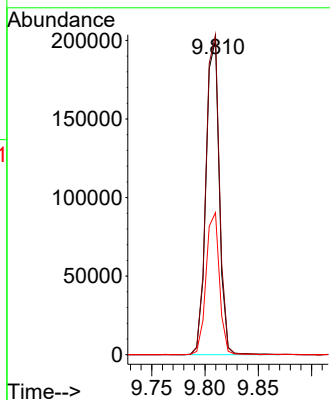
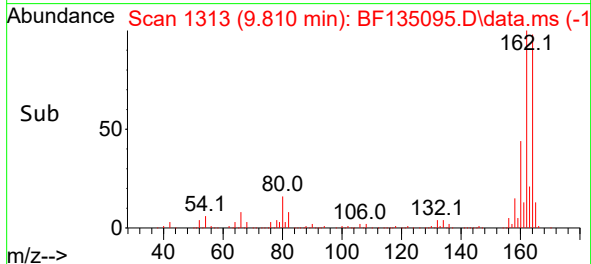
Instrument :
BNA_F
ClientSampleId :
TP-24(4-5)



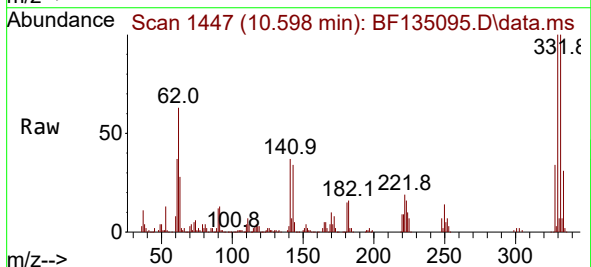
Tgt Ion:164 Resp: 174610
Ion Ratio Lower Upper
164 100
162 101.6 79.5 119.3
160 45.1 36.0 54.0

Manual Integrations
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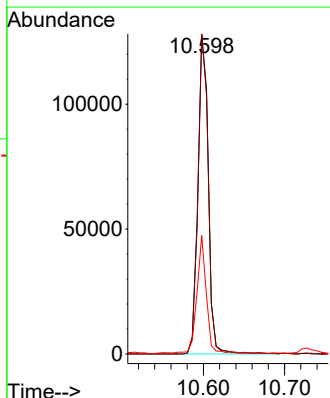
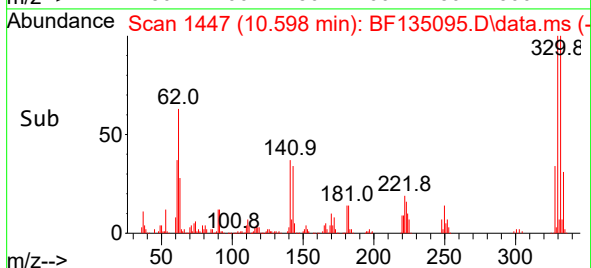
Reviewed By :Yogesh Patel 09/06/2023
Supervised By :mohammad ahmed 09/07/2023

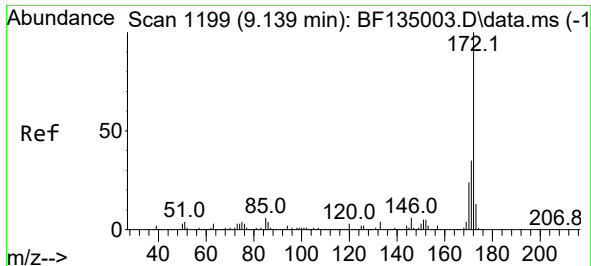


#42
2,4,6-Tribromophenol
Concen: 61.936 ng
RT: 10.598 min Scan# 1447
Delta R.T. -0.012 min
Lab File: BF135095.D
Acq: 05 Sep 2023 14:59



Tgt Ion:330 Resp: 114725
Ion Ratio Lower Upper
330 100
332 98.1 77.6 116.4
141 34.0 26.3 39.5





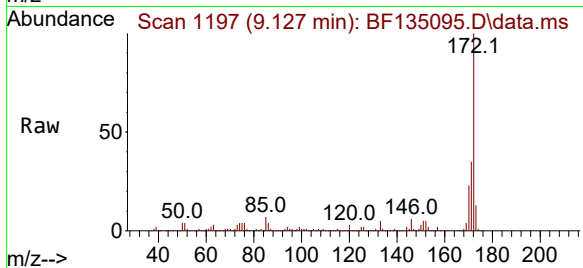
#45
2-Fluorobiphenyl
Concen: 58.199 ng
RT: 9.127 min Scan# 1197
Delta R.T. -0.012 min
Lab File: BF135095.D
Acq: 05 Sep 2023 14:59

Instrument :

BNA_F

ClientSampleId :

TP-24(4-5)

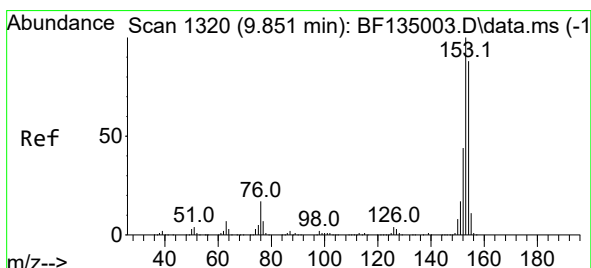
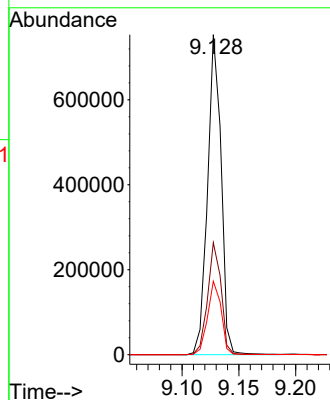
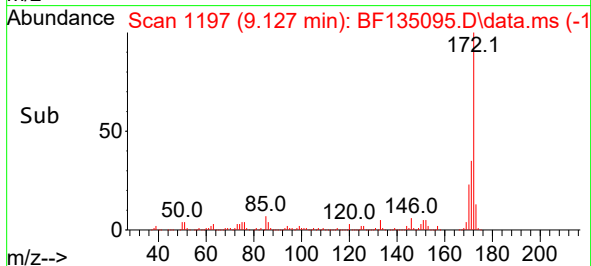


Tgt Ion:172 Resp: 62419
Ion Ratio Lower Upper
172 100
171 35.0 28.2 42.2
170 22.9 19.0 28.4

Manual Integrations

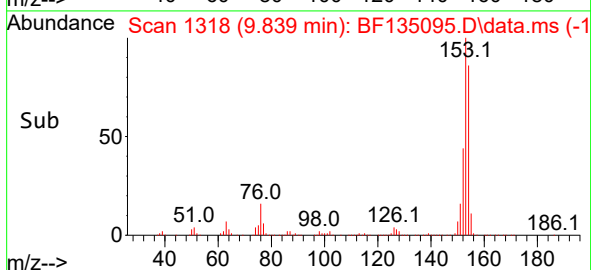
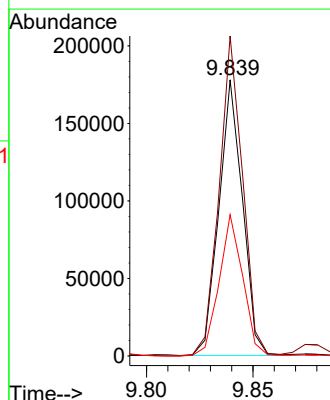
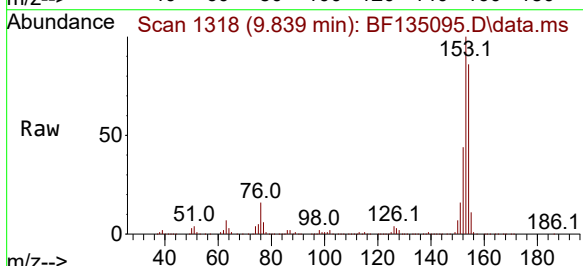
APPROVED

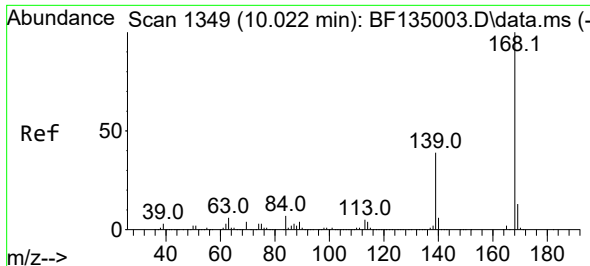
Reviewed By :Yogesh Patel 09/06/2023
Supervised By :mohammad ahmed 09/07/2023



#52
Acenaphthene
Concen: 14.171 ng
RT: 9.839 min Scan# 1318
Delta R.T. -0.012 min
Lab File: BF135095.D
Acq: 05 Sep 2023 14:59

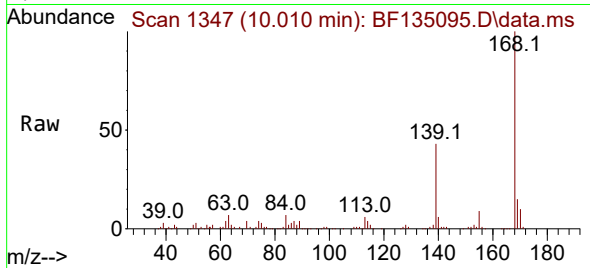
Tgt Ion:154 Resp: 136957
Ion Ratio Lower Upper
154 100
153 115.9 90.8 136.2
152 51.2 40.2 60.4





#55
Dibenzenofuran
Concen: 5.424 ng
RT: 10.010 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF135095.D
Acq: 05 Sep 2023 14:59

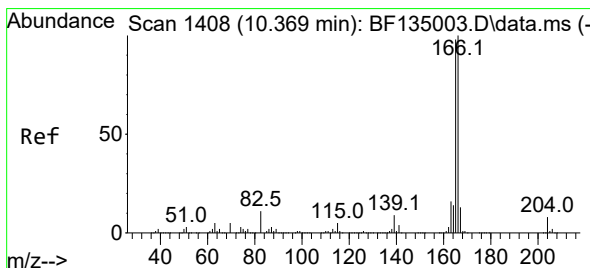
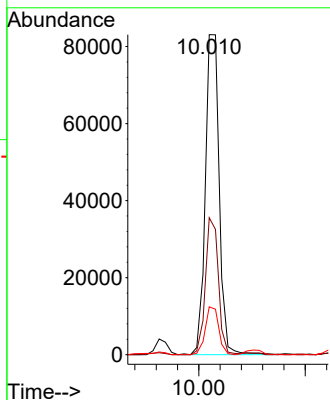
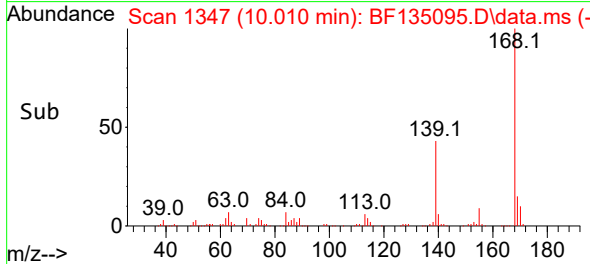
Instrument :
BNA_F
ClientSampleId :
TP-24(4-5)



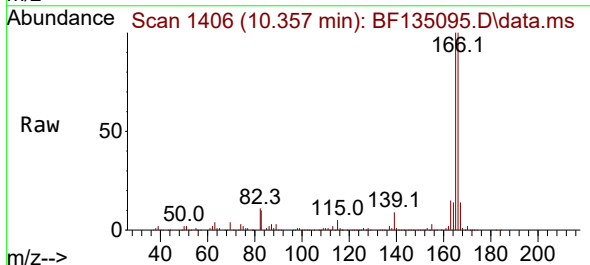
Tgt Ion:168 Resp: 75624
Ion Ratio Lower Upper
168 100
139 42.8 31.5 47.3
169 14.9 10.7 16.1

Manual Integrations
APPROVED

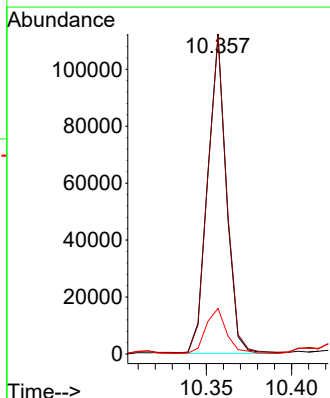
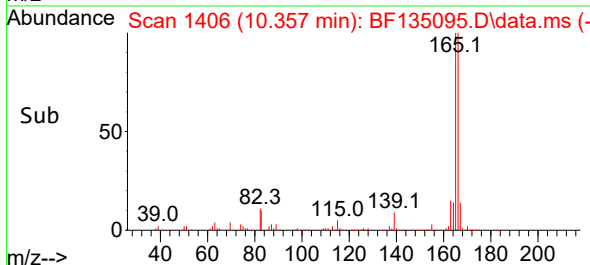
Reviewed By :Yogesh Patel 09/06/2023
Supervised By :mohammad ahmed 09/07/2023

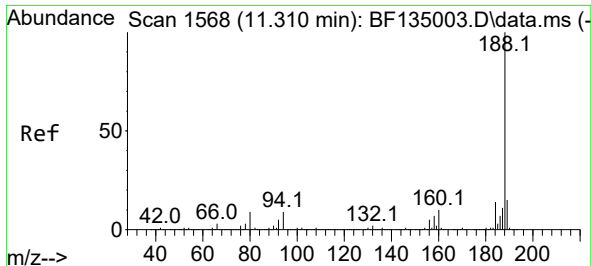


#58
Fluorene
Concen: 8.017 ng
RT: 10.357 min Scan# 1406
Delta R.T. -0.012 min
Lab File: BF135095.D
Acq: 05 Sep 2023 14:59



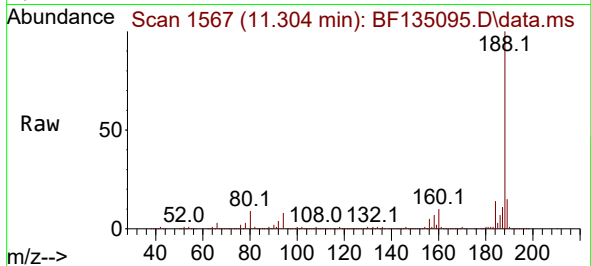
Tgt Ion:166 Resp: 85207
Ion Ratio Lower Upper
166 100
165 99.6 78.0 117.0
167 14.2 10.8 16.2





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.304 min Scan# 1568
Delta R.T. -0.006 min
Lab File: BF135095.D
Acq: 05 Sep 2023 14:59

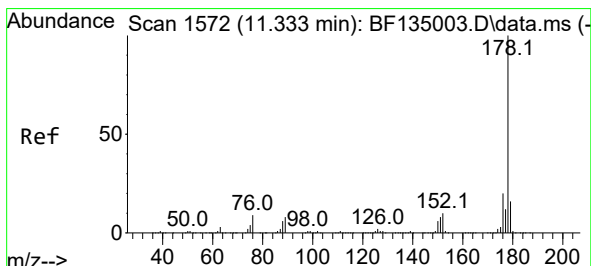
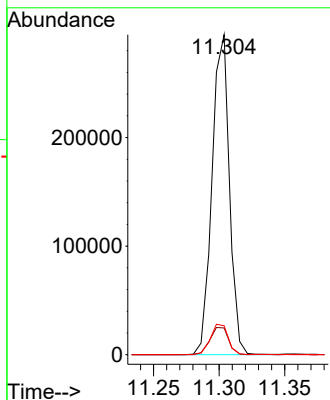
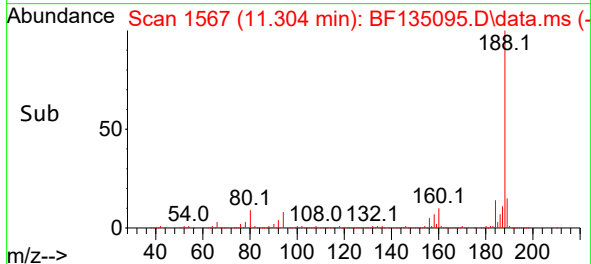
Instrument :
BNA_F
ClientSampleId :
TP-24(4-5)



Tgt Ion:188 Resp: 271284
Ion Ratio Lower Upper
188 100
94 8.4 7.0 10.4
80 9.1 7.4 11.2

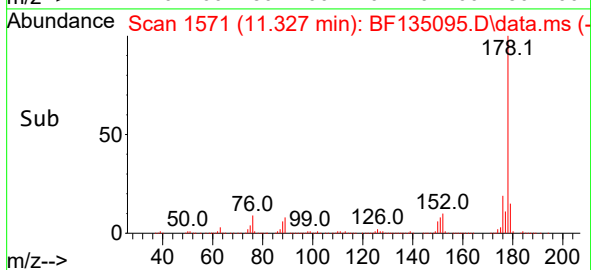
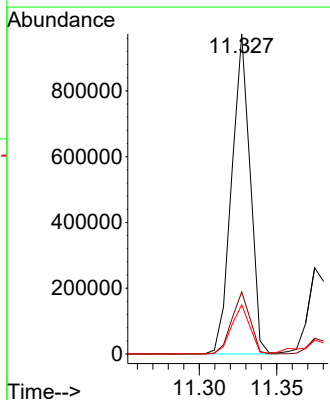
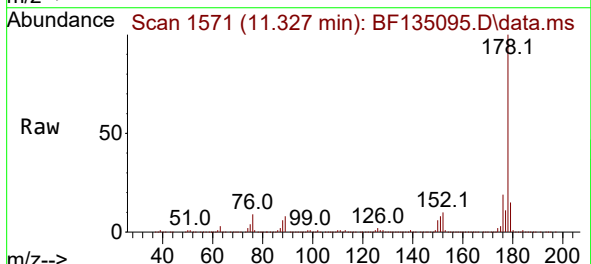
Manual Integrations
APPROVED

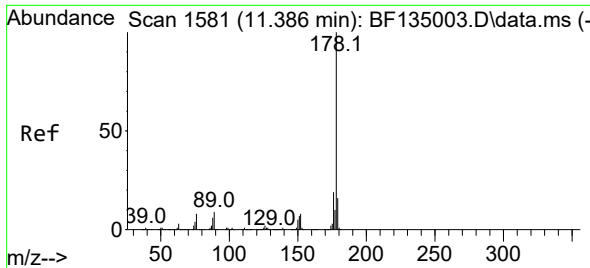
Reviewed By :Yogesh Patel 09/06/2023
Supervised By :mohammad ahmed 09/07/2023



#71
Phenanthrene
Concen: 57.375 ng
RT: 11.327 min Scan# 1571
Delta R.T. -0.006 min
Lab File: BF135095.D
Acq: 05 Sep 2023 14:59

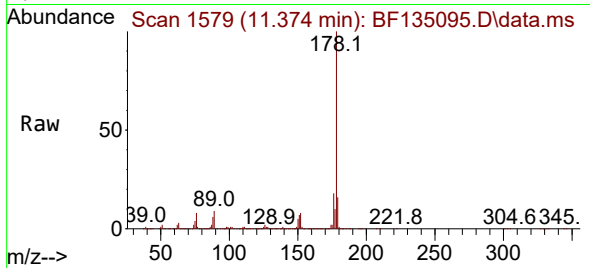
Tgt Ion:178 Resp: 803004
Ion Ratio Lower Upper
178 100
176 19.4 15.9 23.9
179 15.3 12.5 18.7





#72
 Anthracene
 Concen: 15.489 ng
 RT: 11.374 min Scan# 11
 Delta R.T. -0.012 min
 Lab File: BF135095.D
 Acq: 05 Sep 2023 14:59

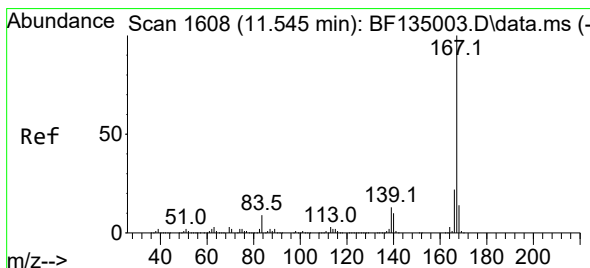
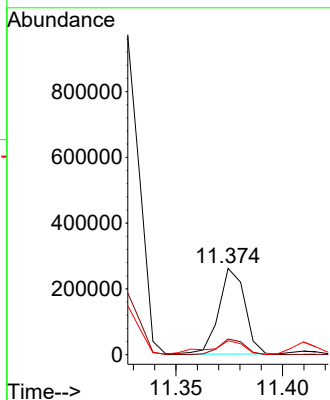
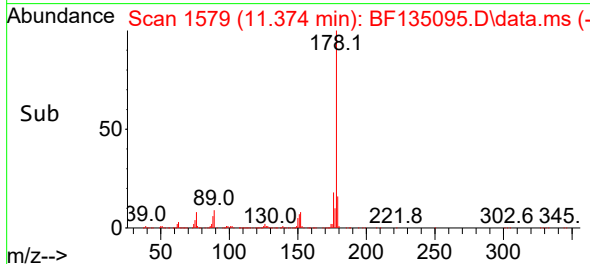
Instrument :
 BNA_F
 ClientSampleId :
 TP-24(4-5)



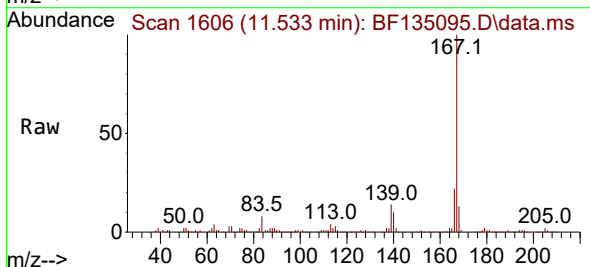
Tgt Ion:178 Resp: 22148
 Ion Ratio Lower Upper
 178 100
 176 18.3 15.4 23.2
 179 16.1 12.8 19.2

Manual Integrations
 APPROVED

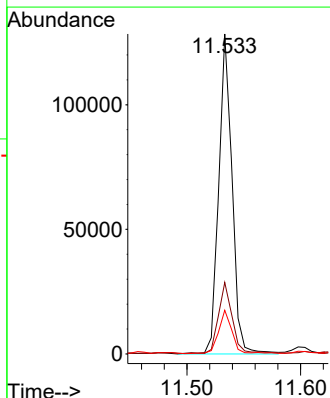
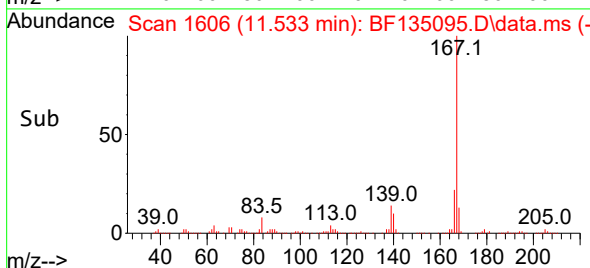
Reviewed By :Yogesh Patel 09/06/2023
 Supervised By :mohammad ahmed 09/07/2023

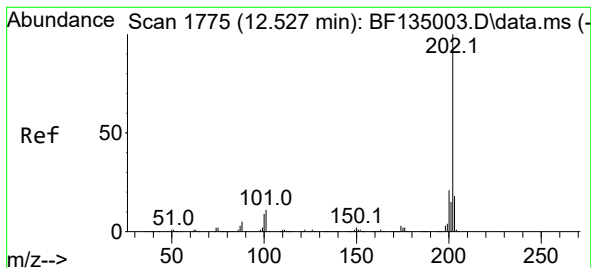


#73
 Carbazole
 Concen: 8.513 ng
 RT: 11.533 min Scan# 1606
 Delta R.T. -0.012 min
 Lab File: BF135095.D
 Acq: 05 Sep 2023 14:59



Tgt Ion:167 Resp: 104992
 Ion Ratio Lower Upper
 167 100
 166 22.4 17.4 26.2
 139 13.7 10.3 15.5





#75

Fluoranthene

Concen: 68.922 ng

RT: 12.527 min Scan# 1775

Delta R.T. -0.000 min

Lab File: BF135095.D

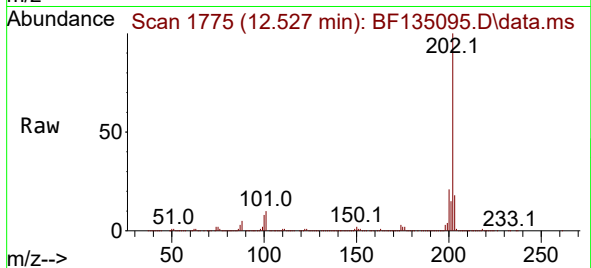
Acq: 05 Sep 2023 14:59

Instrument :

BNA_F

ClientSampleId :

TP-24(4-5)



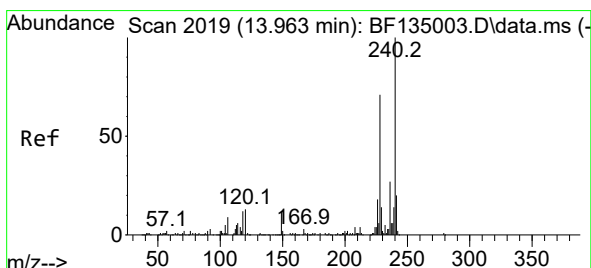
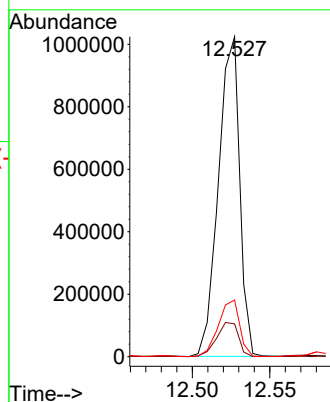
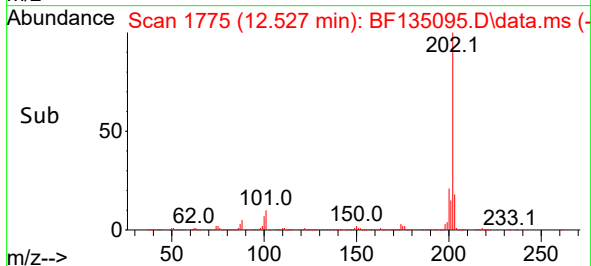
Tgt Ion:	202	Resp:	975272
Ion Ratio	Lower	Upper	
202	100		
101	10.3	0.0	31.5
203	17.7	0.0	37.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 09/06/2023

Supervised By :mohammad ahmed 09/07/2023



#76

Chrysene-d12

Concen: 20.000 ng

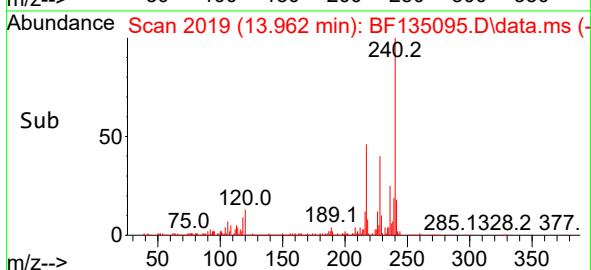
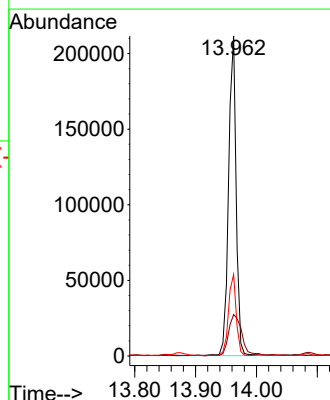
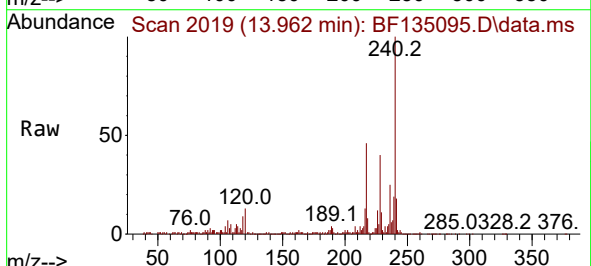
RT: 13.962 min Scan# 2019

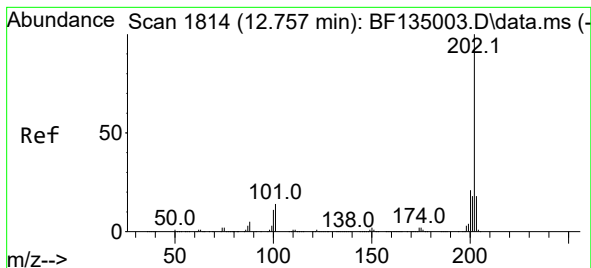
Delta R.T. -0.000 min

Lab File: BF135095.D

Acq: 05 Sep 2023 14:59

Tgt Ion:	240	Resp:	183415
Ion Ratio	Lower	Upper	
240	100		
120	13.0	10.2	15.2
236	25.5	21.3	31.9





#78

Pyrene

Concen: 48.825 ng

RT: 12.757 min Scan# 1814

Delta R.T. -0.000 min

Lab File: BF135095.D

Acq: 05 Sep 2023 14:59

Instrument :

BNA_F

ClientSampleId :

TP-24(4-5)

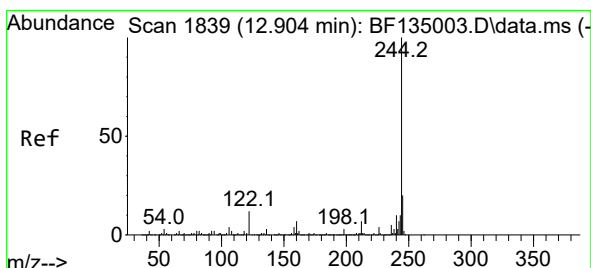
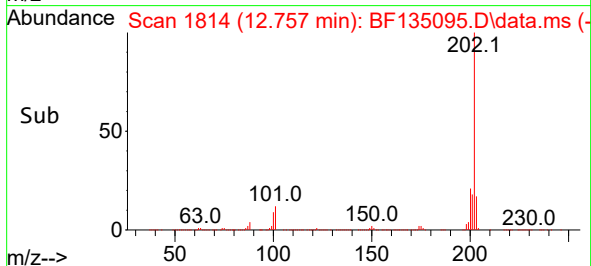
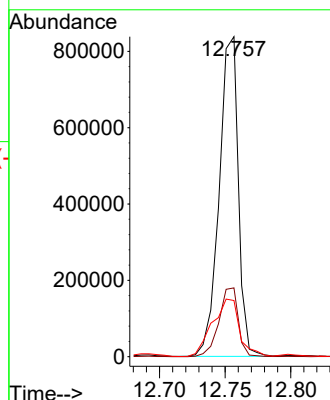
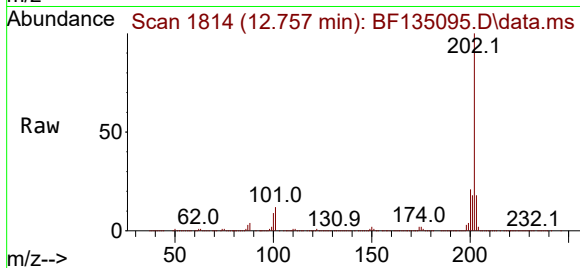
Tgt Ion:202 Resp: 850263
 Ion Ratio Lower Upper
 202 100
 200 21.5 17.0 25.6
 203 17.6 14.2 21.2

Manual Integrations

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Reviewed By :Yogesh Patel 09/06/2023

Supervised By :mohammad ahmed 09/07/2023



#79

Terphenyl-d14

Concen: 37.939 ng

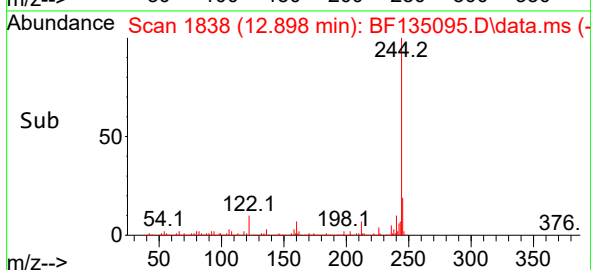
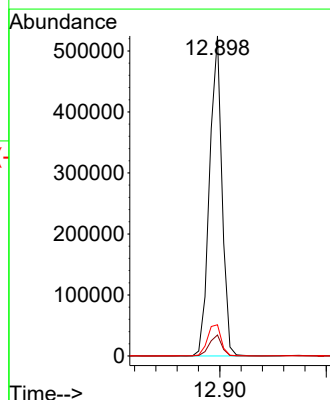
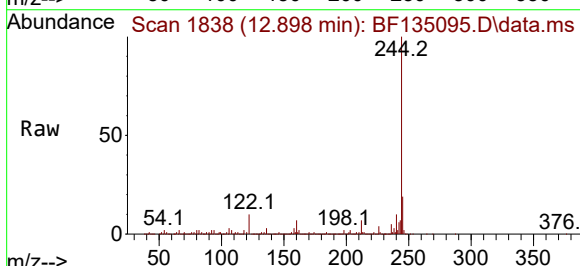
RT: 12.898 min Scan# 1838

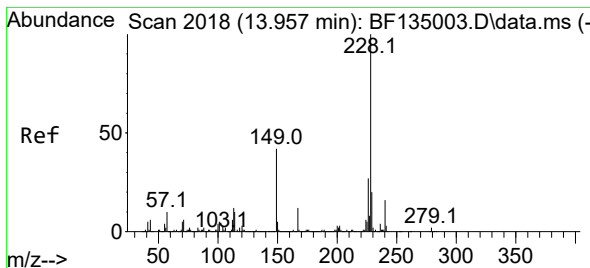
Delta R.T. -0.006 min

Lab File: BF135095.D

Acq: 05 Sep 2023 14:59

Tgt Ion:244 Resp: 426409
 Ion Ratio Lower Upper
 244 100
 212 6.6 5.6 8.4
 122 9.7 9.8 14.6#





#81

Benzo(a)anthracene

Concen: 49.108 ng

RT: 13.951 min Scan# 20

Delta R.T. -0.006 min

Lab File: BF135095.D

Acq: 05 Sep 2023 14:59

Instrument :

BNA_F

ClientSampleId :

TP-24(4-5)

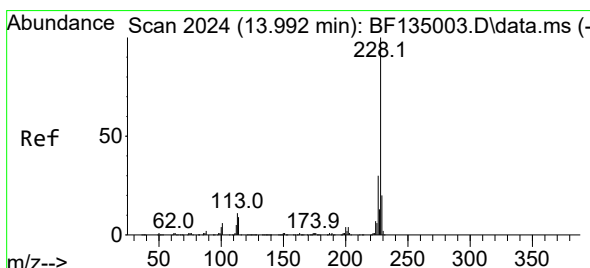
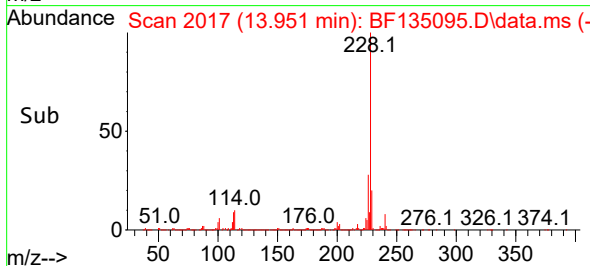
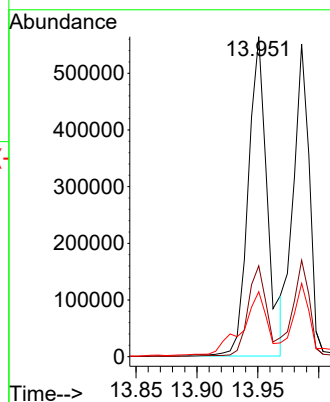
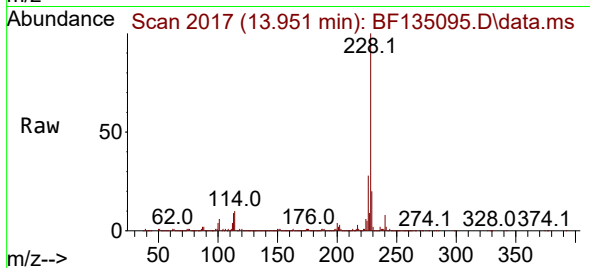
Tgt Ion:228 Resp: 614414
 Ion Ratio Lower Upper
 228 100
 226 28.4 21.6 32.4
 229 20.3 15.6 23.4

Manual Integrations

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Reviewed By :Yogesh Patel 09/06/2023

Supervised By :mohammad ahmed 09/07/2023



#83

Chrysene

Concen: 40.982 ng

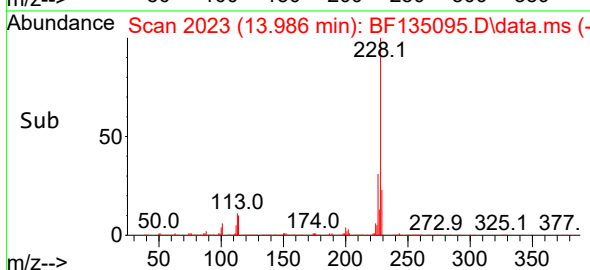
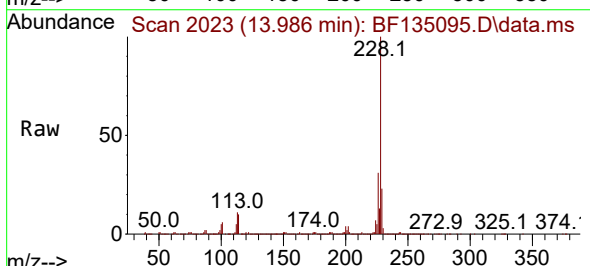
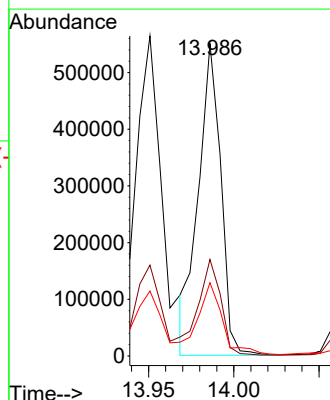
RT: 13.986 min Scan# 2023

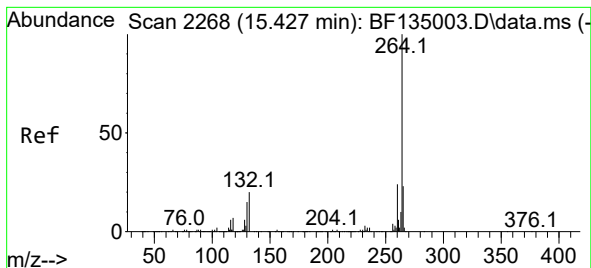
Delta R.T. -0.006 min

Lab File: BF135095.D

Acq: 05 Sep 2023 14:59

Tgt Ion:228 Resp: 503906
 Ion Ratio Lower Upper
 228 100
 226 30.9 24.2 36.4
 229 23.4 15.9 23.9





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.433 min Scan# 2268

Delta R.T. 0.006 min

Lab File: BF135095.D

Acq: 05 Sep 2023 14:59

Instrument :

BNA_F

ClientSampleId :

TP-24(4-5)

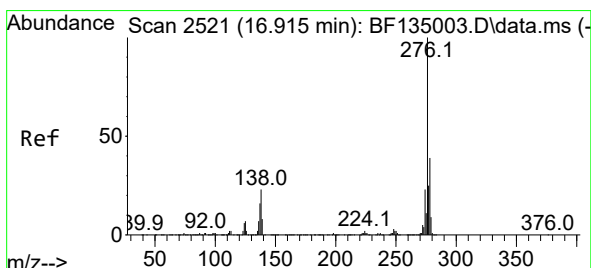
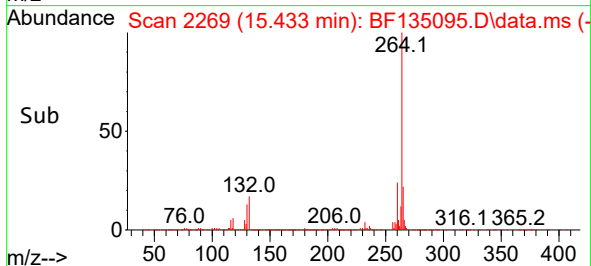
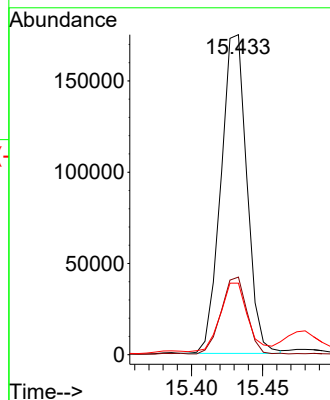
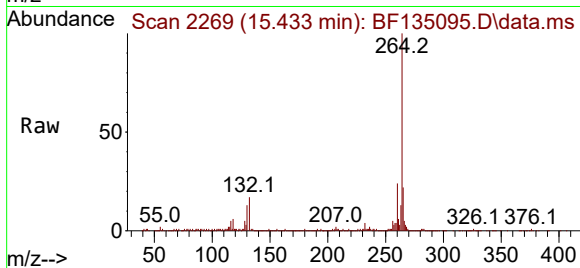
Tgt Ion:264 Resp: 221411
 Ion Ratio Lower Upper
 264 100
 260 24.3 19.0 28.6
 265 22.3 18.2 27.2

Manual Integrations

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Reviewed By :Yogesh Patel 09/06/2023

Supervised By :mohammad ahmed 09/07/2023



#87

Indeno(1,2,3-cd)pyrene

Concen: 24.827 ng m

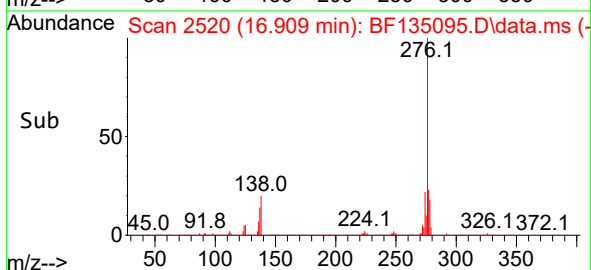
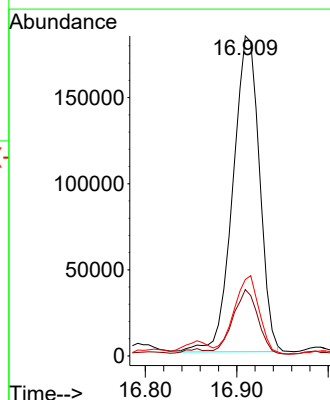
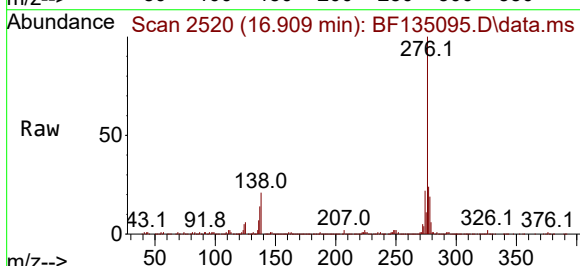
RT: 16.909 min Scan# 2520

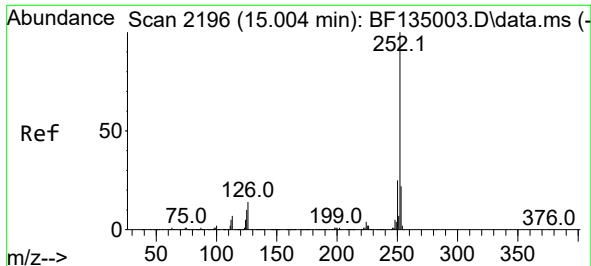
Delta R.T. -0.006 min

Lab File: BF135095.D

Acq: 05 Sep 2023 14:59

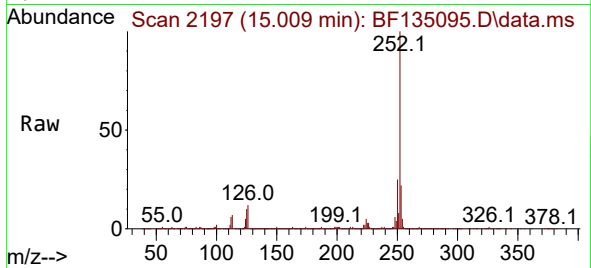
Tgt Ion:276 Resp: 370260
 Ion Ratio Lower Upper
 276 100
 138 0.0 20.2 30.2#
 277 0.0 20.4 30.6#





#88
Benzo(b)fluoranthene
Concen: 60.719 ng m
RT: 15.009 min Scan# 2196
Delta R.T. 0.006 min
Lab File: BF135095.D
Acq: 05 Sep 2023 14:59

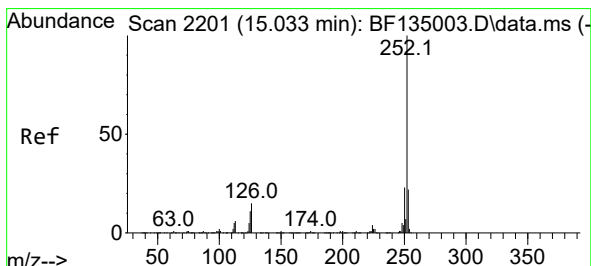
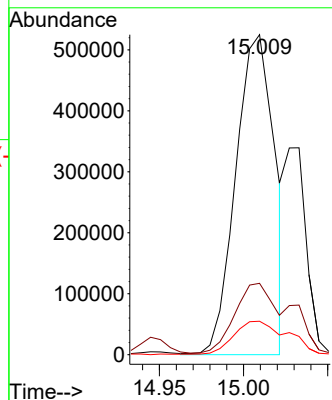
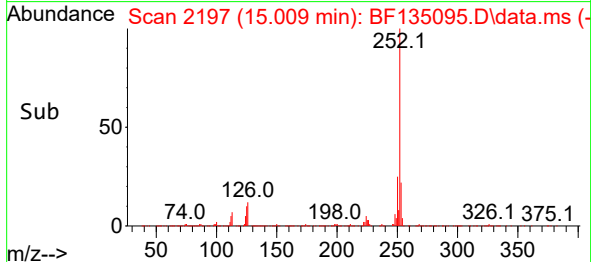
Instrument :
BNA_F
ClientSampleId :
TP-24(4-5)



Tgt Ion:252 Resp: 836502
Ion Ratio Lower Upper
252 100
253 22.3 17.8 26.8
125 10.4 8.4 12.6

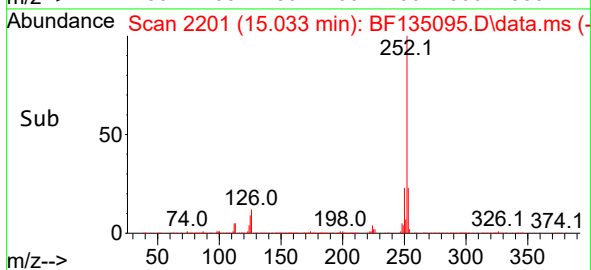
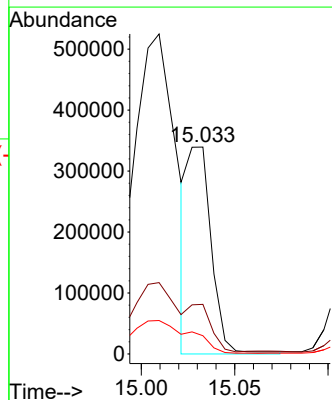
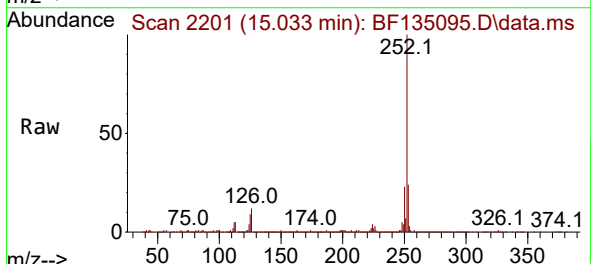
Manual Integrations
APPROVED

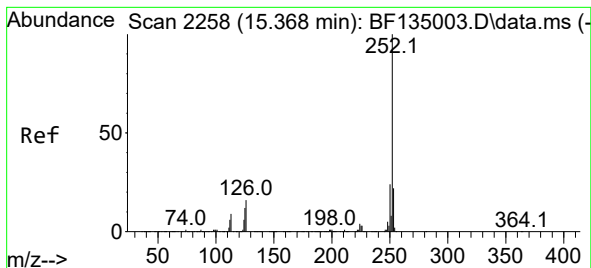
Reviewed By :Yogesh Patel 09/06/2023
Supervised By :mohammad ahmed 09/07/2023



#89
Benzo(k)fluoranthene
Concen: 22.577 ng m
RT: 15.033 min Scan# 2201
Delta R.T. -0.000 min
Lab File: BF135095.D
Acq: 05 Sep 2023 14:59

Tgt Ion:252 Resp: 300491
Ion Ratio Lower Upper
252 100
253 24.0 17.4 26.0
125 8.8 8.5 12.7





#90

Benzo(a)pyrene

Concen: 50.908 ng

RT: 15.374 min Scan# 21

Delta R.T. 0.006 min

Lab File: BF135095.D

Acq: 05 Sep 2023 14:59

Instrument :

BNA_F

ClientSampleId :

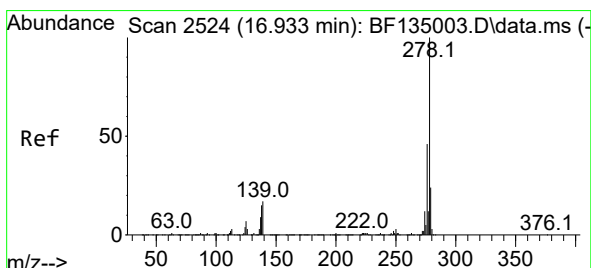
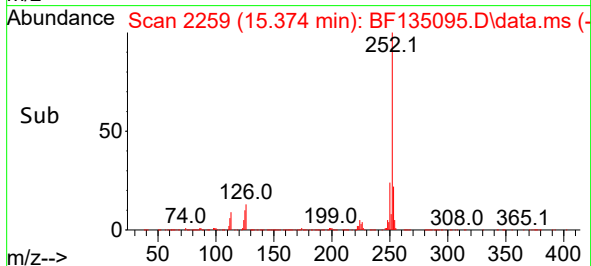
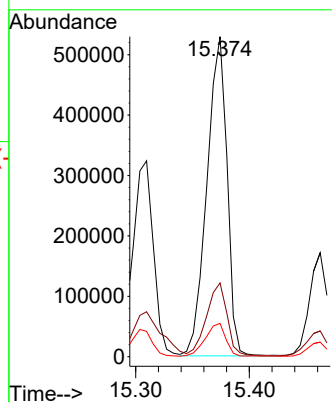
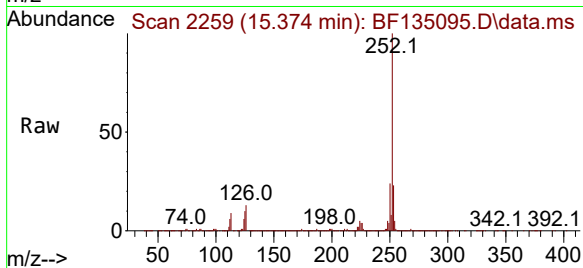
TP-24(4-5)

Tgt Ion:252 Resp: 651520
 Ion Ratio Lower Upper
 252 100
 253 23.0 17.4 26.0
 125 10.4 9.5 14.3

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 09/06/2023
 Supervised By :mohammad ahmed 09/07/2023



#91

Dibenzo(a,h)anthracene

Concen: 7.556 ng

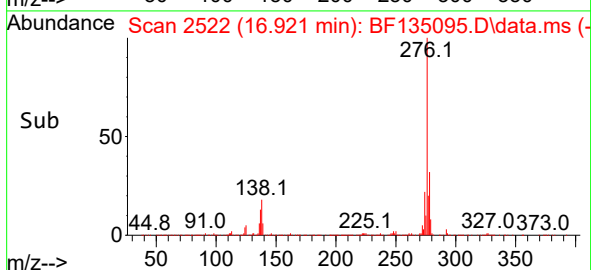
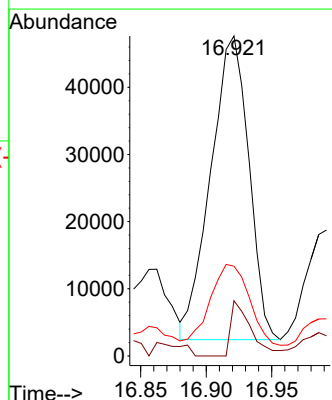
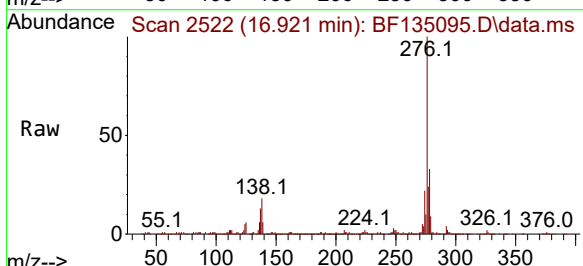
RT: 16.921 min Scan# 2522

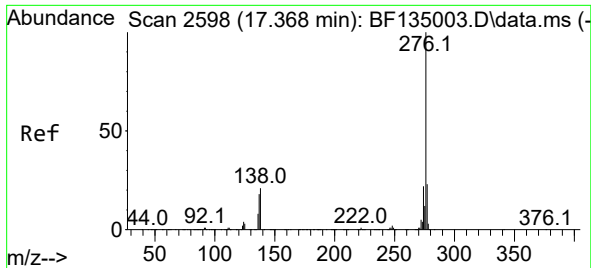
Delta R.T. -0.012 min

Lab File: BF135095.D

Acq: 05 Sep 2023 14:59

Tgt Ion:278 Resp: 91264
 Ion Ratio Lower Upper
 278 100
 139 17.2 13.4 20.2
 279 28.1 19.5 29.3





#92

Benzo(g,h,i)perylene

Concen: 26.665 ng

RT: 17.362 min Scan# 2597

Delta R.T. -0.006 min

Lab File: BF135095.D

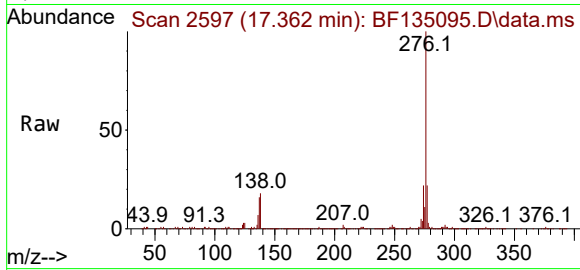
Acq: 05 Sep 2023 14:59

Instrument :

BNA_F

ClientSampleId :

TP-24(4-5)



Tgt Ion:276 Resp: 334990

Ion Ratio Lower Upper

276 100

277 22.4 18.5 27.7

138 17.7 17.1 25.7

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 09/06/2023

Supervised By :mohammad ahmed 09/07/2023

