

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF091523\
 Data File : BF135295.D
 Acq On : 15 Sep 2023 23:41
 Operator : CG\JU
 Sample : 04405-01 5X
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 OR-02-091223

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 09/18/2023
 Supervised By :mohammad ahmed 09/19/2023

Quant Time: Sep 16 01:57:24 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF091123.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Sep 12 00:19:07 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.757	152	78240	20.000	ng	0.00
21) Naphthalene-d8	8.039	136	262536	20.000	ng	0.00
39) Acenaphthene-d10	9.792	164	115347	20.000	ng	-0.01
64) Phenanthrene-d10	11.286	188	227584	20.000	ng	0.00
76) Chrysene-d12	13.945	240	175207	20.000	ng	0.00
86) Perylene-d12	15.410	264	143852	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.387	112	96198	19.998	ng	0.00
7) Phenol-d6	6.398	99	120248	19.659	ng	0.00
23) Nitrobenzene-d5	7.316	82	68898	14.258	ng	-0.02
42) 2,4,6-Tribromophenol	10.586	330	26930	23.494	ng	-0.01
45) 2-Fluorobiphenyl	9.116	172	122345	16.003	ng	-0.01
79) Terphenyl-d14	12.880	244	179052	15.842	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	8.057	128	31398	2.461	ng	98
37) 2-Methylnaphthalene	8.751	142	22316	2.603	ng	100
38) 1-Methylnaphthalene	8.851	142	25374	3.161	ng	93
49) Acenaphthylene	9.657	152	23146	2.165	ng	# 94
52) Acenaphthene	9.828	154	44943	7.118	ng	98
55) Dibenzofuran	9.998	168	47657	4.946	ng	96
58) Fluorene	10.345	166	71572	9.662	ng	98
71) Phenanthrene	11.310	178	458217	42.570	ng	99
72) Anthracene	11.363	178	121392	10.972	ng	99
73) Carbazole	11.522	167	47195	4.686	ng	98
75) Fluoranthene	12.510	202	585735	52.224	ng	98
78) Pyrene	12.739	202	501208	30.047	ng	99
81) Benzo(a)anthracene	13.933	228	218204	19.287	ng	96
83) Chrysene	13.968	228	179672	15.973	ng	97
87) Indeno(1,2,3-cd)pyrene	16.886	276	58214	6.172	ng	95
88) Benzo(b)fluoranthene	14.986	252	169604m	21.780	ng	
89) Benzo(k)fluoranthene	15.010	252	46544m	6.051	ng	
90) Benzo(a)pyrene	15.351	252	116578	15.698	ng	95
91) Dibenzo(a,h)anthracene	16.886	278	15633	2.026	ng	# 81
92) Benzo(g,h,i)perylene	17.333	276	56956	7.067	ng	97

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

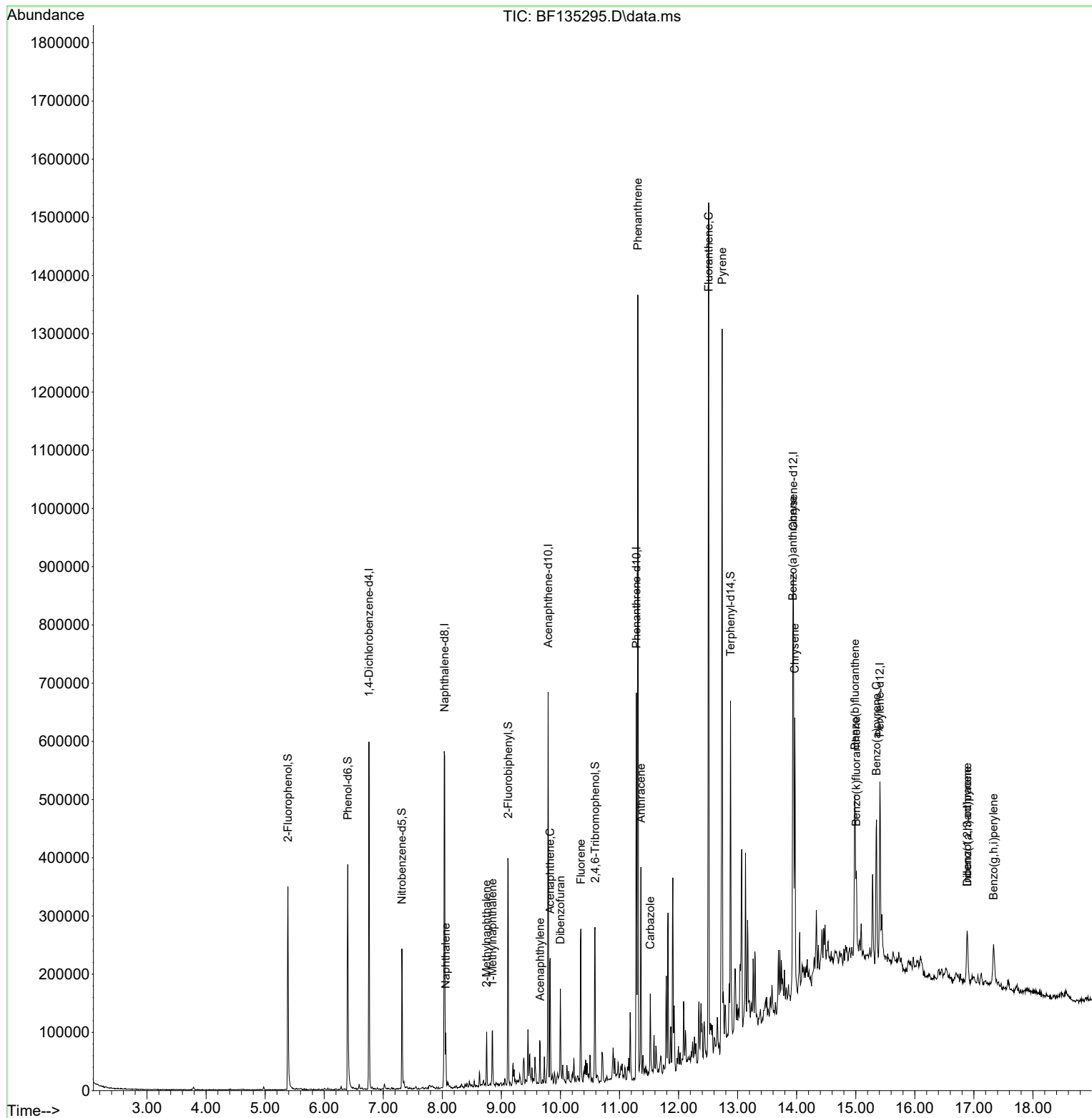
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF091523\
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Misc :
ALS Vial : 20 Sample Multiplier: 1

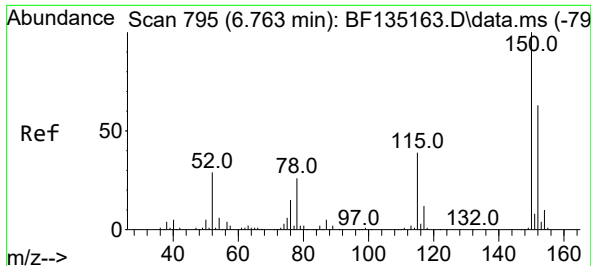
Instrument :
BNA_F
ClientSampleId :
OR-02-091223

Quant Time: Sep 16 01:57:24 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF091123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Sep 12 00:19:07 2023
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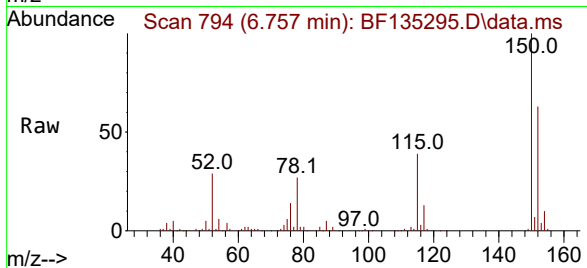
Reviewed By :Yogesh Patel 09/18/2023
Supervised By :mohammad ahmed 09/19/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.757 min Scan# 795
Delta R.T. -0.006 min
Lab File: BF135295.D
Acq: 15 Sep 2023 23:41

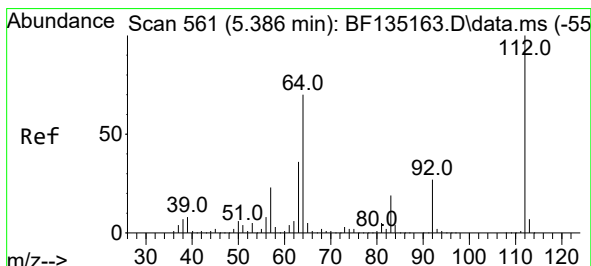
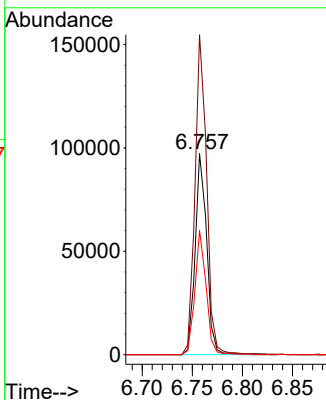
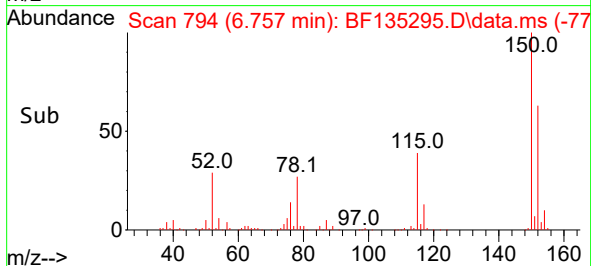
Instrument :
BNA_F
ClientSampleId :
OR-02-091223



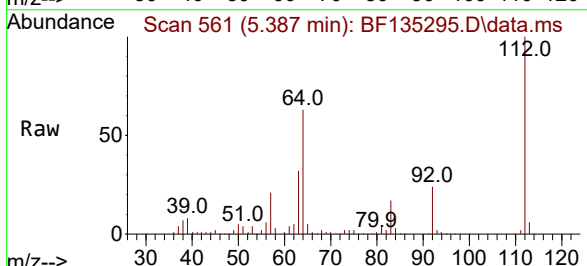
Tgt Ion:152 Resp: 78240
Ion Ratio Lower Upper
152 100
150 159.1 127.8 191.6
115 61.8 49.8 74.8

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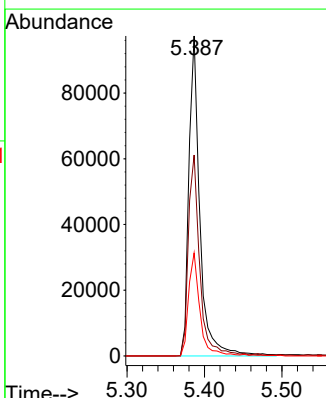
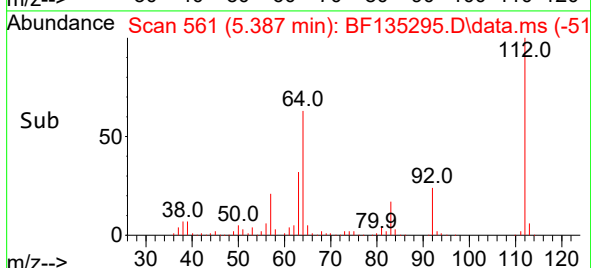
Reviewed By :Yogesh Patel 09/18/2023
Supervised By :mohammad ahmed 09/19/2023

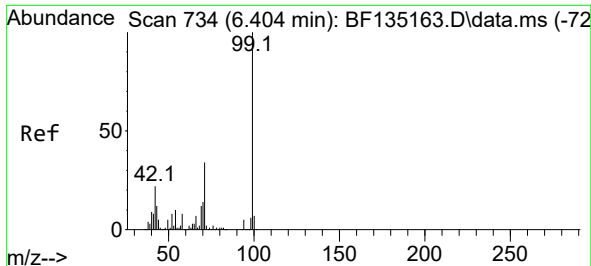


#5
2-Fluorophenol
Concen: 19.998 ng
RT: 5.387 min Scan# 561
Delta R.T. 0.000 min
Lab File: BF135295.D
Acq: 15 Sep 2023 23:41



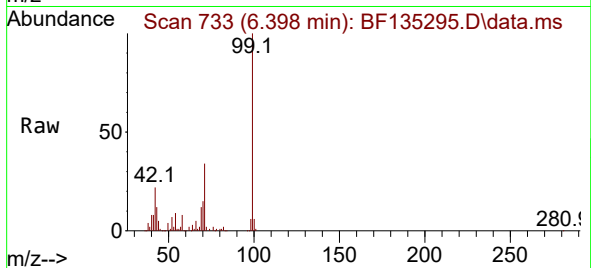
Tgt Ion:112 Resp: 96198
Ion Ratio Lower Upper
112 100
64 62.8 55.9 83.9
63 32.2 29.0 43.6





#7
Phenol-d6
Concen: 19.659 ng
RT: 6.398 min Scan# 71
Delta R.T. -0.006 min
Lab File: BF135295.D
Acq: 15 Sep 2023 23:41

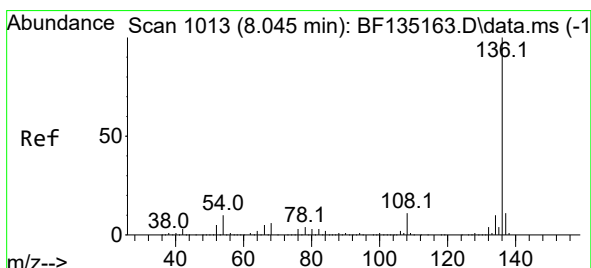
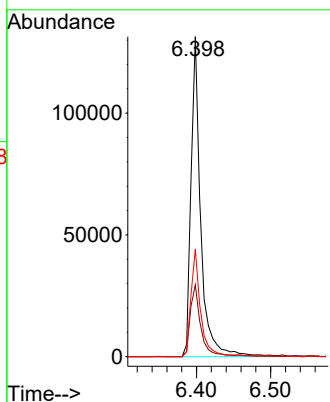
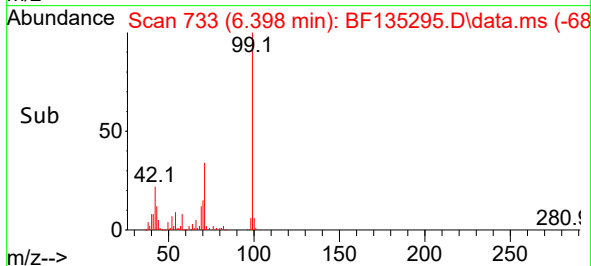
Instrument :
BNA_F
ClientSampleId :
OR-02-091223



Tgt Ion: 99 Resp: 120248
Ion Ratio Lower Upper
99 100
42 22.4 17.9 26.9
71 33.6 27.0 40.6

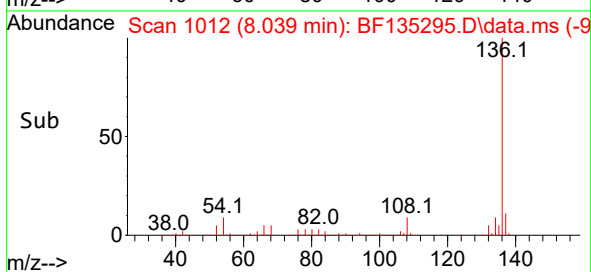
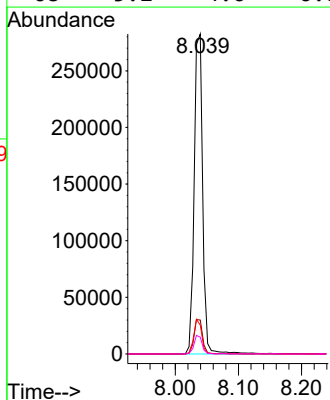
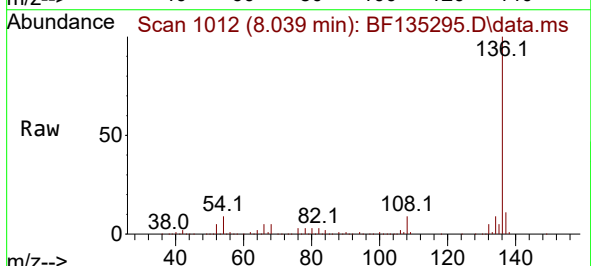
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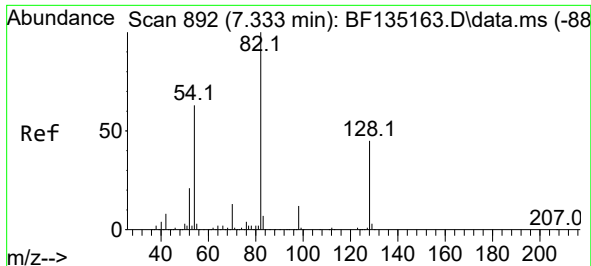
Reviewed By :Yogesh Patel 09/18/2023
Supervised By :mohammad ahmed 09/19/2023



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.039 min Scan# 1012
Delta R.T. -0.006 min
Lab File: BF135295.D
Acq: 15 Sep 2023 23:41

Tgt Ion:136 Resp: 262536
Ion Ratio Lower Upper
136 100
137 10.6 8.8 13.2
54 9.0 7.7 11.5
68 5.2 4.6 6.8





#23

Nitrobenzene-d5

Concen: 14.258 ng

RT: 7.316 min Scan# 81

Delta R.T. -0.018 min

Lab File: BF135295.D

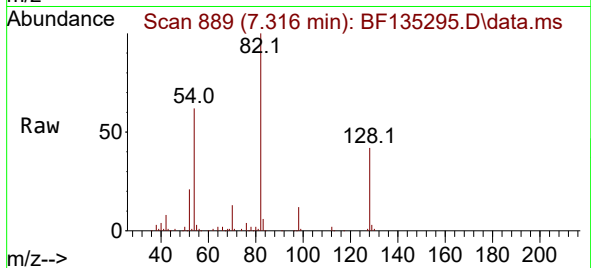
Acq: 15 Sep 2023 23:41

Instrument :

BNA_F

ClientSampleId :

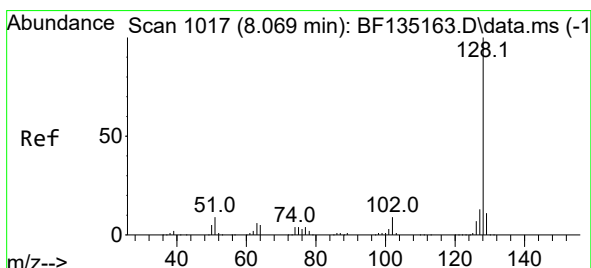
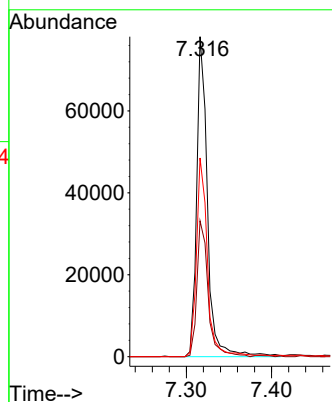
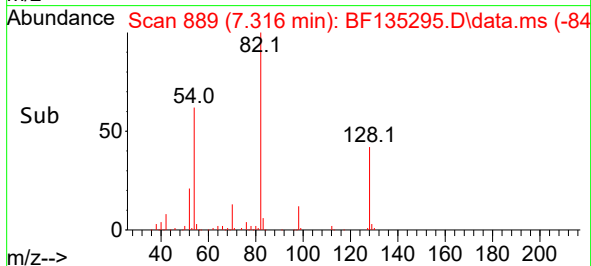
OR-02-091223



Tgt Ion:	82	Resp:	68898
Ion Ratio	Lower	Upper	
82	100		
128	42.5	35.8	53.6
54	62.1	50.6	76.0

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Supervised By :mohammad ahmed 09/19/2023



#31

Naphthalene

Concen: 2.461 ng

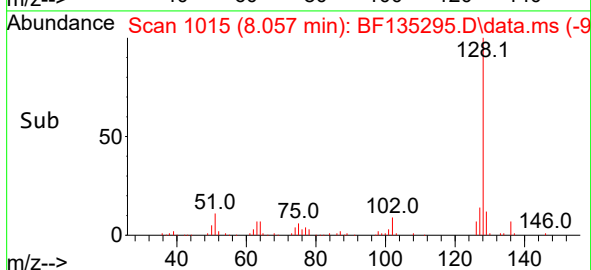
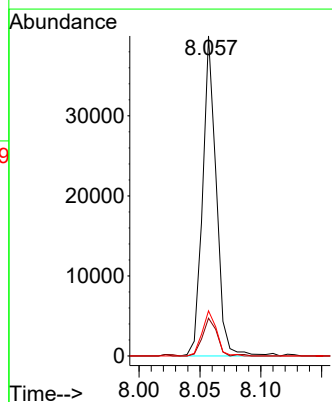
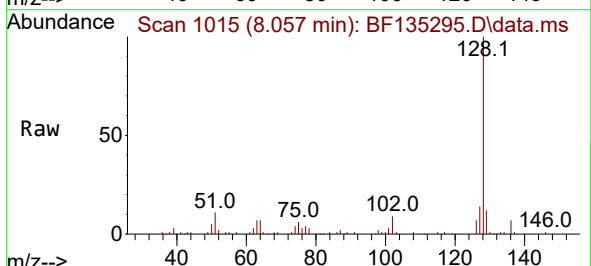
RT: 8.057 min Scan# 1015

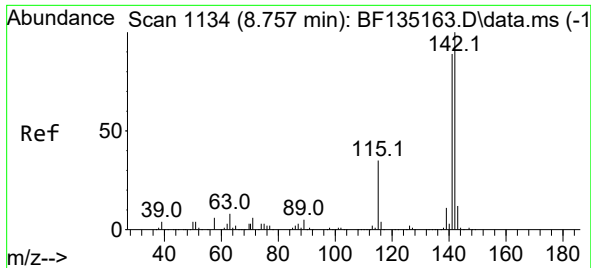
Delta R.T. -0.012 min

Lab File: BF135295.D

Acq: 15 Sep 2023 23:41

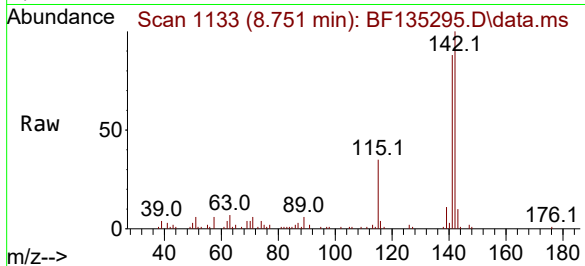
Tgt Ion:	128	Resp:	31398
Ion Ratio	Lower	Upper	
128	100		
129	11.8	8.7	13.1
127	14.1	10.7	16.1





#37
2-Methylnaphthalene
Concen: 2.603 ng
RT: 8.751 min Scan# 1134
Delta R.T. -0.006 min
Lab File: BF135295.D
Acq: 15 Sep 2023 23:41

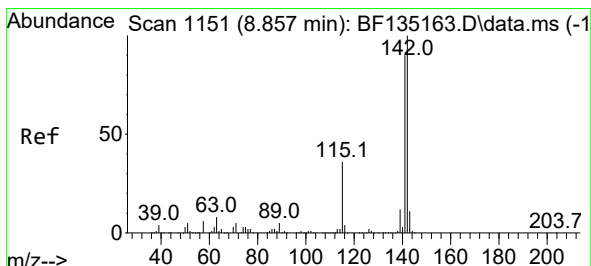
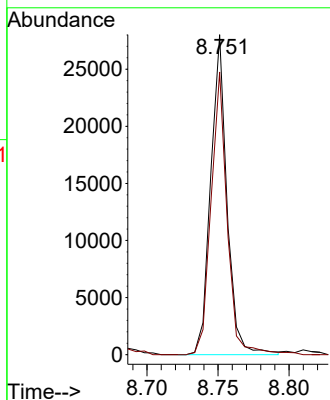
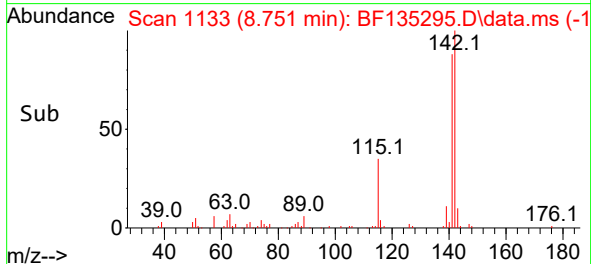
Instrument :
BNA_F
ClientSampleId :
OR-02-091223



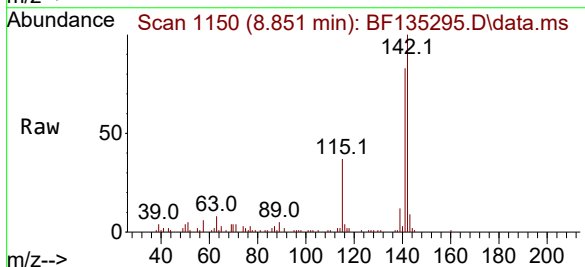
Tgt Ion:142 Resp: 22310
Ion Ratio Lower Upper
142 100
141 88.4 71.0 106.6

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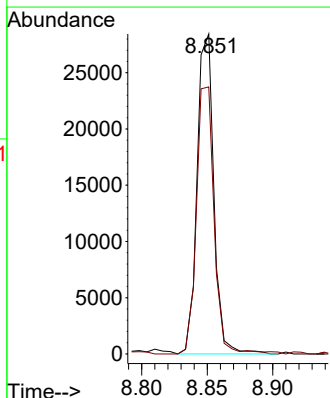
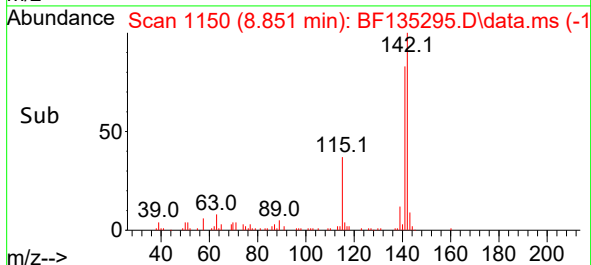
Reviewed By :Yogesh Patel 09/18/2023
Supervised By :mohammad ahmed 09/19/2023

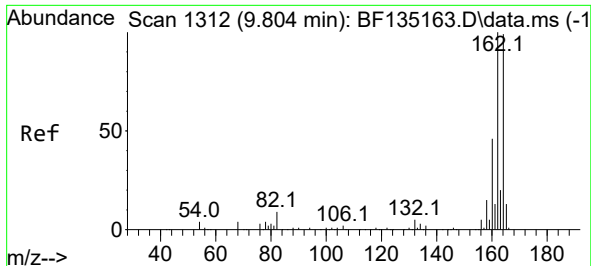


#38
1-Methylnaphthalene
Concen: 3.161 ng
RT: 8.851 min Scan# 1150
Delta R.T. -0.006 min
Lab File: BF135295.D
Acq: 15 Sep 2023 23:41



Tgt Ion:142 Resp: 25374
Ion Ratio Lower Upper
142 100
141 83.5 72.4 108.6





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.792 min Scan# 11

Delta R.T. -0.012 min

Lab File: BF135295.D

Acq: 15 Sep 2023 23:41

Instrument :

BNA_F

ClientSampleId :

OR-02-091223

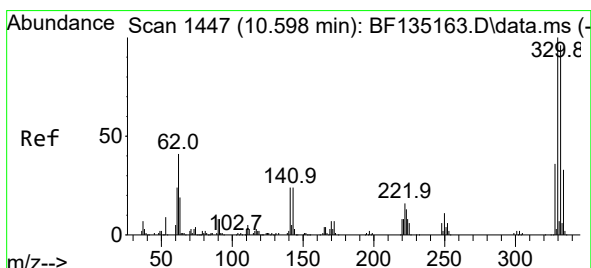
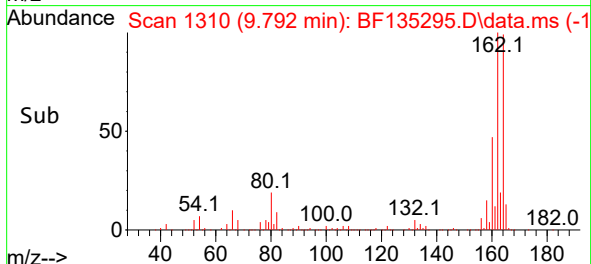
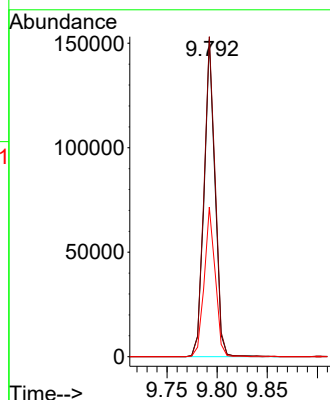
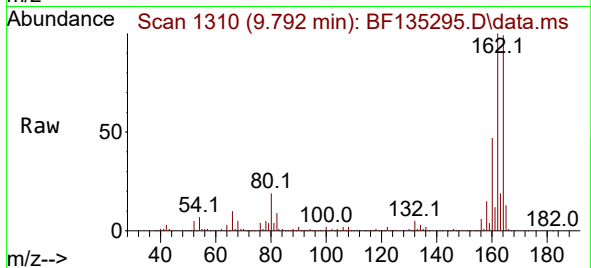
Tgt Ion:164	Resp:	11534
Ion Ratio	Lower	Upper
164	100	
162	100.9	81.0 121.4
160	47.2	37.0 55.4

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Reviewed By :Yogesh Patel 09/18/2023

Supervised By :mohammad ahmed 09/19/2023



#42

2,4,6-Tribromophenol

Concen: 23.494 ng

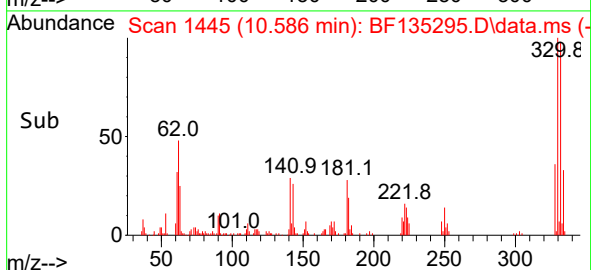
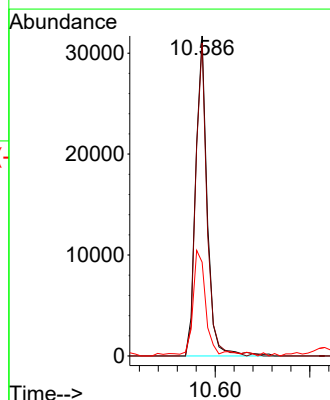
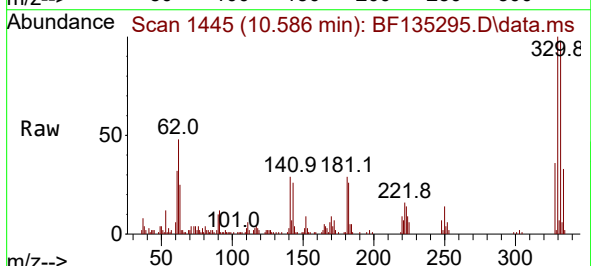
RT: 10.586 min Scan# 1445

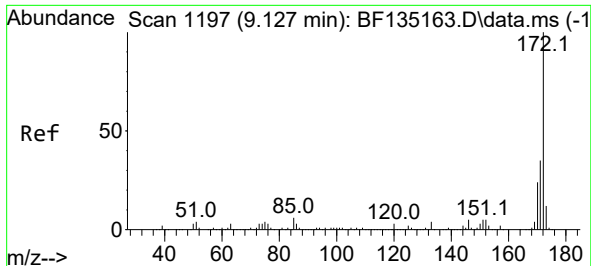
Delta R.T. -0.012 min

Lab File: BF135295.D

Acq: 15 Sep 2023 23:41

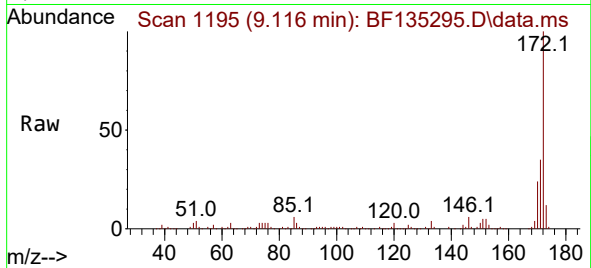
Tgt Ion:330	Resp:	26930
Ion Ratio	Lower	Upper
330	100	
332	94.9	77.3 115.9
141	37.2	25.8 38.8





#45
2-Fluorobiphenyl
Concen: 16.003 ng
RT: 9.116 min Scan# 1197
Delta R.T. -0.012 min
Lab File: BF135295.D
Acq: 15 Sep 2023 23:41

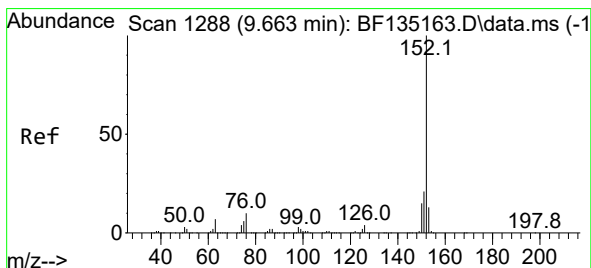
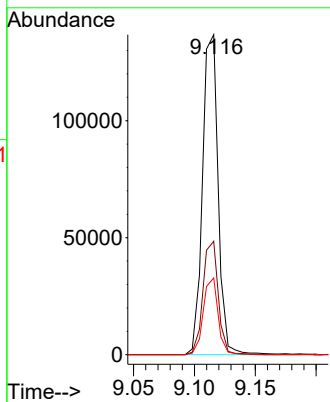
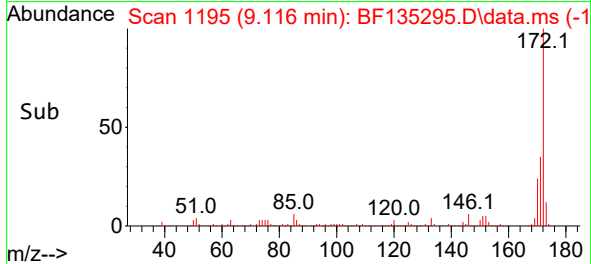
Instrument :
BNA_F
ClientSampleId :
OR-02-091223



Tgt Ion:172 Resp: 122345
Ion Ratio Lower Upper
172 100
171 35.5 28.4 42.6
170 24.0 19.0 28.4

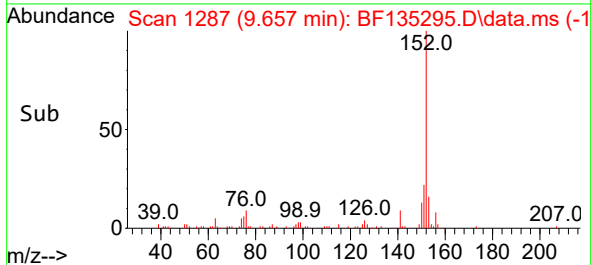
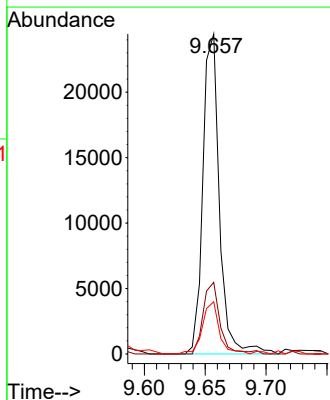
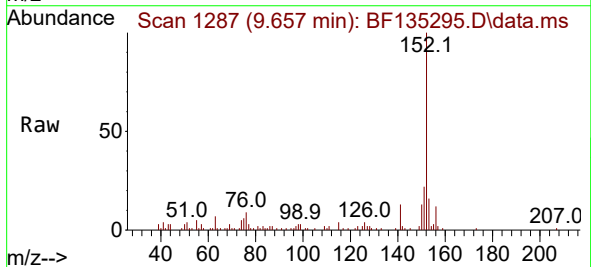
Manual Integrations
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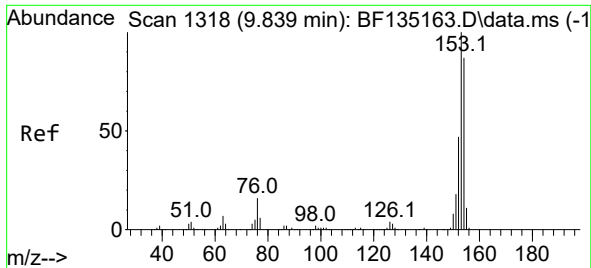
Reviewed By :Yogesh Patel 09/18/2023
Supervised By :mohammad ahmed 09/19/2023



#49
Acenaphthylene
Concen: 2.165 ng
RT: 9.657 min Scan# 1287
Delta R.T. -0.006 min
Lab File: BF135295.D
Acq: 15 Sep 2023 23:41

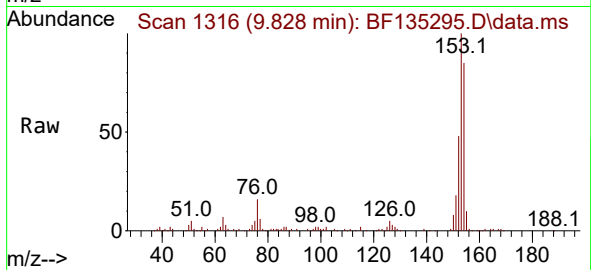
Tgt Ion:152 Resp: 23146
Ion Ratio Lower Upper
152 100
151 22.4 16.4 24.6
153 16.3 10.4 15.6#





#52
Acenaphthene
Concen: 7.118 ng
RT: 9.828 min Scan# 1316
Delta R.T. -0.011 min
Lab File: BF135295.D
Acq: 15 Sep 2023 23:41

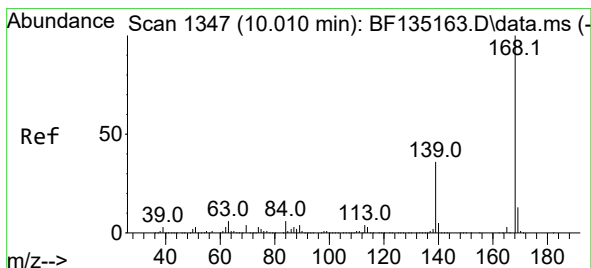
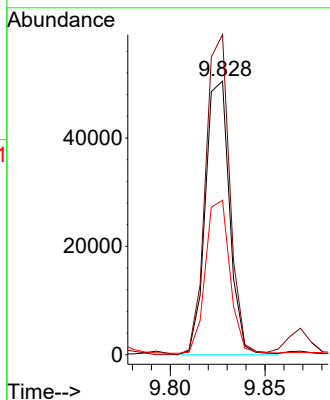
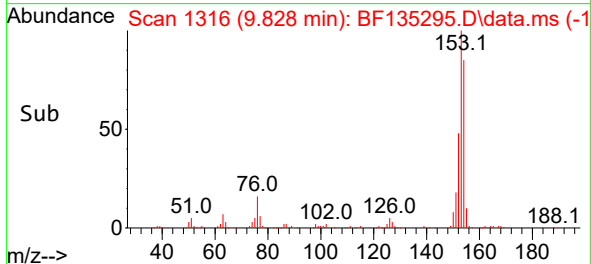
Instrument :
BNA_F
ClientSampleId :
OR-02-091223



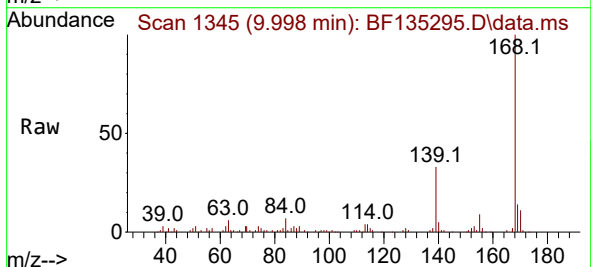
Tgt Ion:154 Resp: 4494
Ion Ratio Lower Upper
154 100
153 117.0 92.1 138.1
152 56.4 43.1 64.7

Manual Integrations
APPROVED

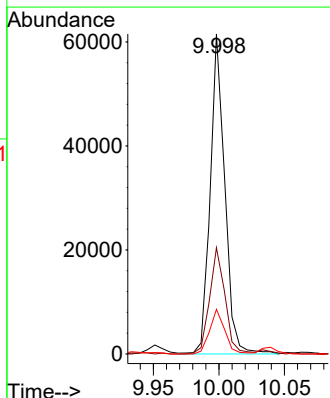
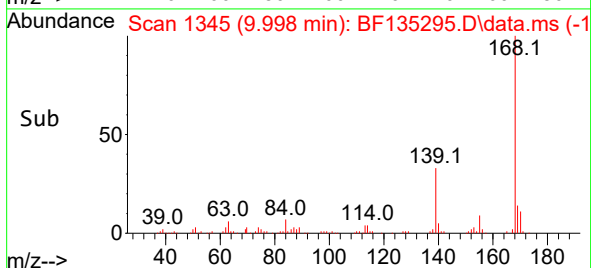
Reviewed By :Yogesh Patel 09/18/2023
Supervised By :mohammad ahmed 09/19/2023

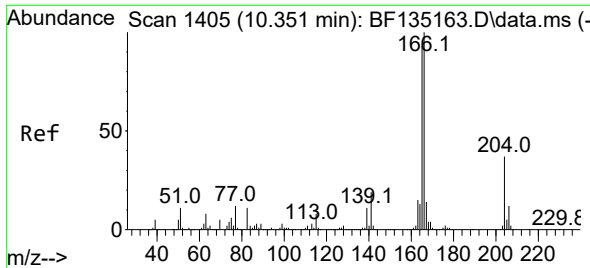


#55
Dibenzofuran
Concen: 4.946 ng
RT: 9.998 min Scan# 1345
Delta R.T. -0.012 min
Lab File: BF135295.D
Acq: 15 Sep 2023 23:41



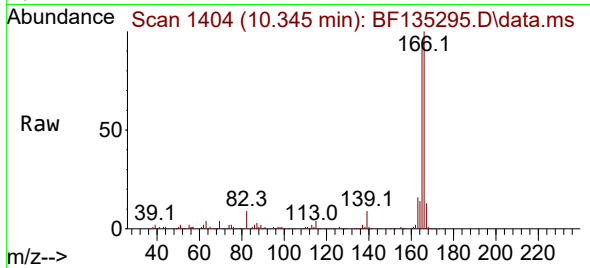
Tgt Ion:168 Resp: 47657
Ion Ratio Lower Upper
168 100
139 33.2 29.0 43.6
169 14.0 10.4 15.6





#58
Fluorene
Concen: 9.662 ng
RT: 10.345 min Scan# 1405
Delta R.T. -0.006 min
Lab File: BF135295.D
Acq: 15 Sep 2023 23:41

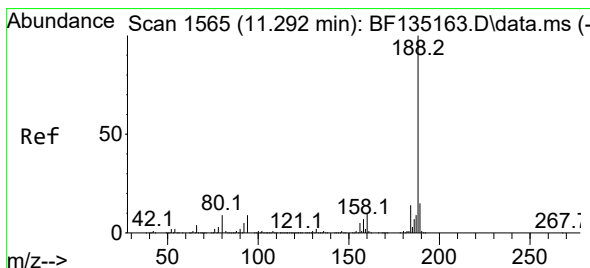
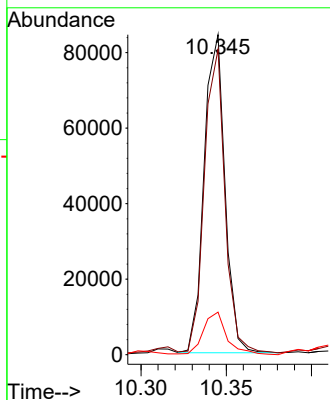
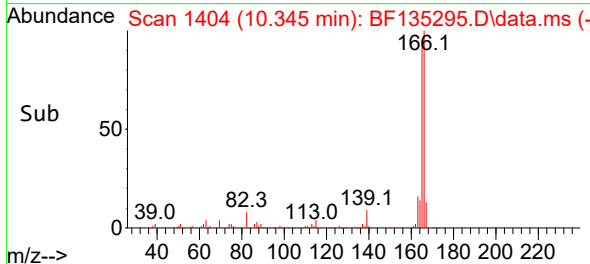
Instrument :
BNA_F
ClientSampleId :
OR-02-091223



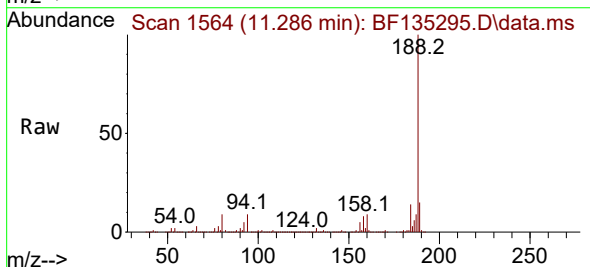
Tgt Ion:166 Resp: 71572
Ion Ratio Lower Upper
166 100
165 95.4 74.3 111.5
167 13.3 10.9 16.3

Manual Integrations
APPROVED

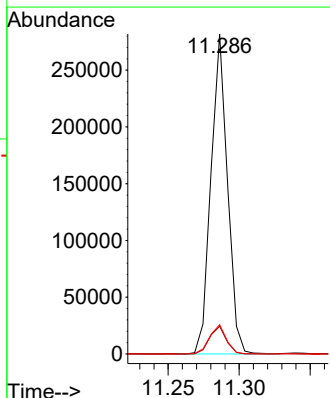
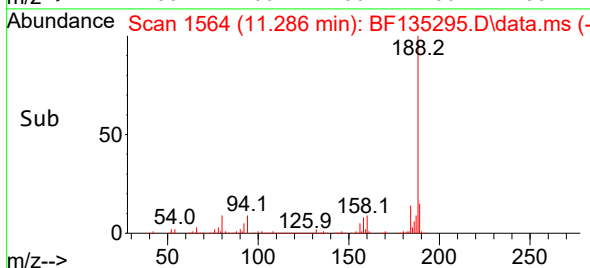
Reviewed By :Yogesh Patel 09/18/2023
Supervised By :mohammad ahmed 09/19/2023

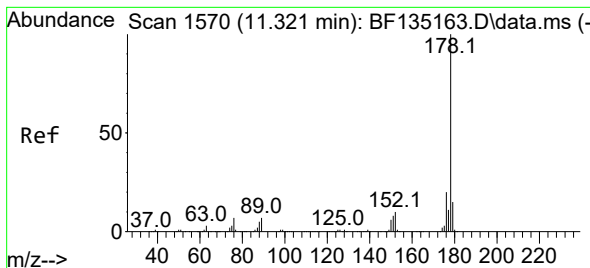


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.286 min Scan# 1564
Delta R.T. -0.006 min
Lab File: BF135295.D
Acq: 15 Sep 2023 23:41



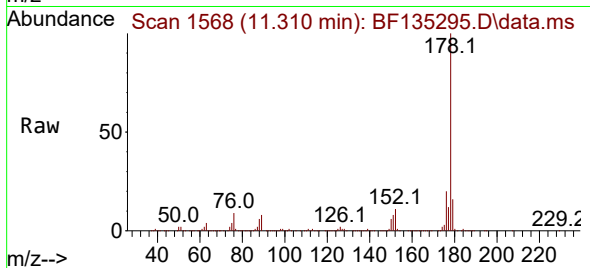
Tgt Ion:188 Resp: 227584
Ion Ratio Lower Upper
188 100
94 8.7 7.0 10.6
80 9.1 7.5 11.3





#71
Phenanthrene
Concen: 42.570 ng
RT: 11.310 min Scan# 1568
Delta R.T. -0.012 min
Lab File: BF135295.D
Acq: 15 Sep 2023 23:41

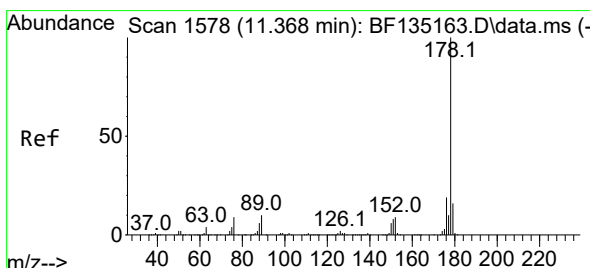
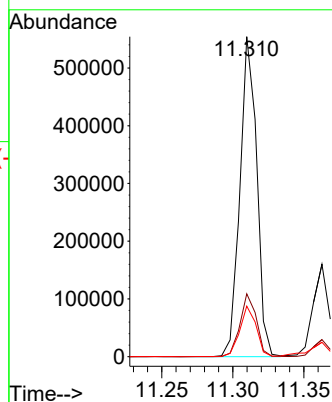
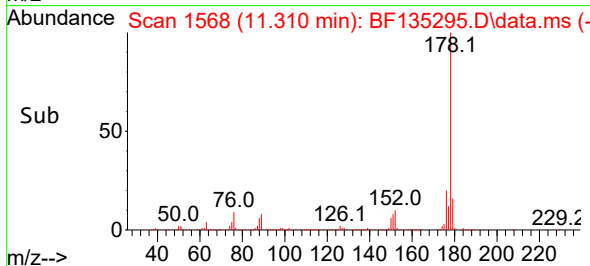
Instrument :
BNA_F
ClientSampleId :
OR-02-091223



Tgt Ion:178 Resp: 45821
Ion Ratio Lower Upper
178 100
176 19.6 15.6 23.4
179 15.8 12.0 18.0

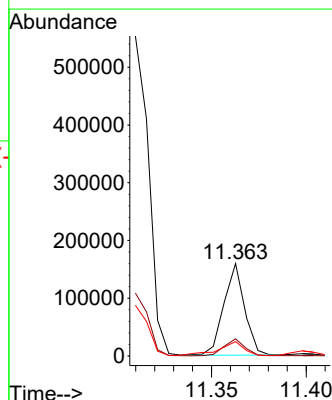
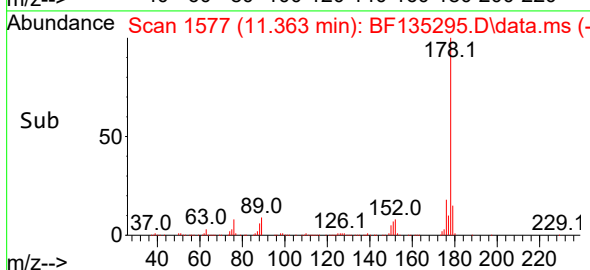
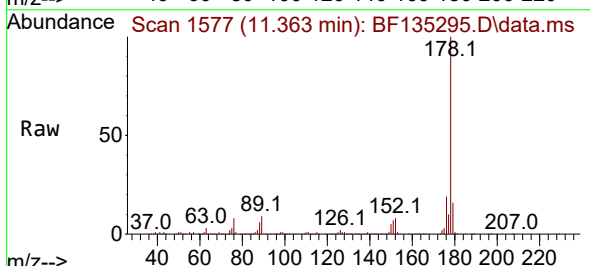
Manual Integrations
APPROVED

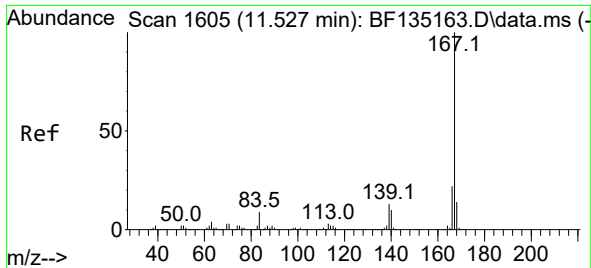
Reviewed By :Yogesh Patel 09/18/2023
Supervised By :mohammad ahmed 09/19/2023



#72
Anthracene
Concen: 10.972 ng
RT: 11.363 min Scan# 1577
Delta R.T. -0.006 min
Lab File: BF135295.D
Acq: 15 Sep 2023 23:41

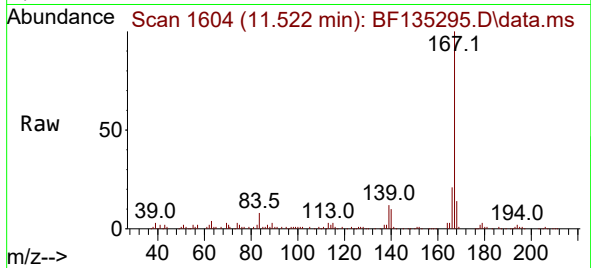
Tgt Ion:178 Resp: 121392
Ion Ratio Lower Upper
178 100
176 18.5 15.4 23.2
179 15.5 12.6 19.0





#73
 Carbazole
 Concen: 4.686 ng
 RT: 11.522 min Scan# 1604
 Delta R.T. -0.006 min
 Lab File: BF135295.D
 Acq: 15 Sep 2023 23:41

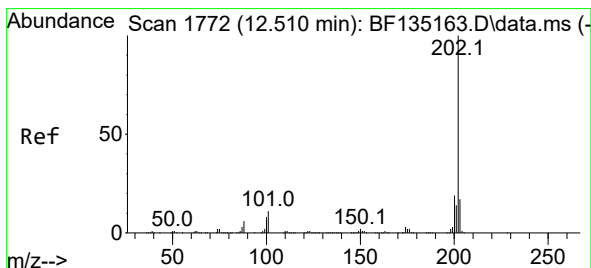
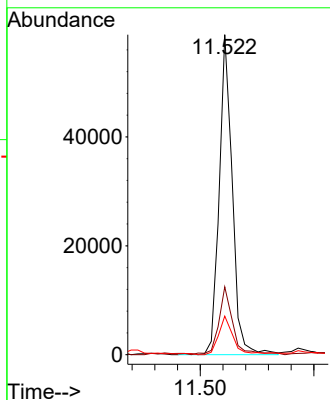
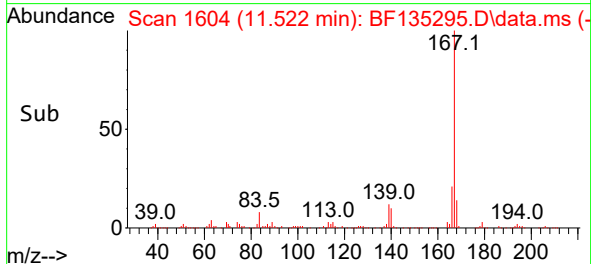
Instrument :
 BNA_F
 ClientSampleId :
 OR-02-091223



Tgt Ion:167 Resp: 47195
 Ion Ratio Lower Upper
 167 100
 166 21.2 17.4 26.0
 139 12.1 10.6 15.8

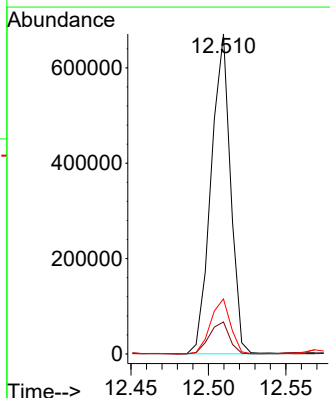
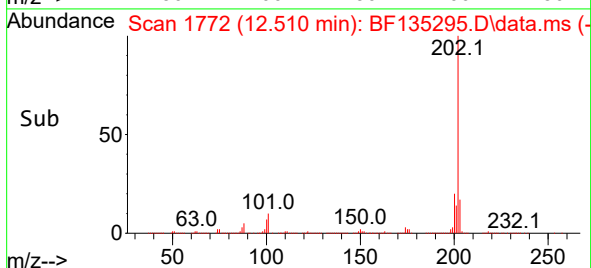
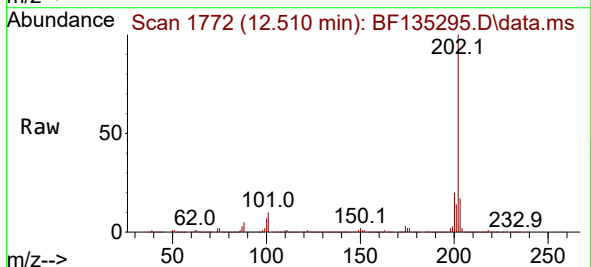
Manual Integrations
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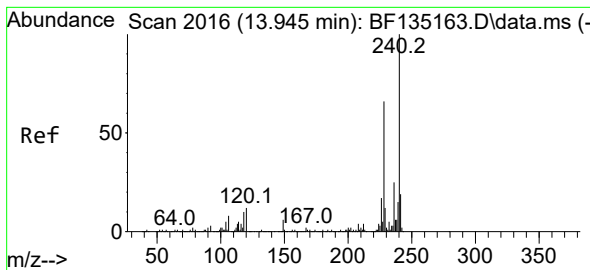
Reviewed By :Yogesh Patel 09/18/2023
 Supervised By :mohammad ahmed 09/19/2023



#75
 Fluoranthene
 Concen: 52.224 ng
 RT: 12.510 min Scan# 1772
 Delta R.T. 0.000 min
 Lab File: BF135295.D
 Acq: 15 Sep 2023 23:41

Tgt Ion:202 Resp: 585735
 Ion Ratio Lower Upper
 202 100
 101 10.0 0.0 31.3
 203 17.2 0.0 37.4





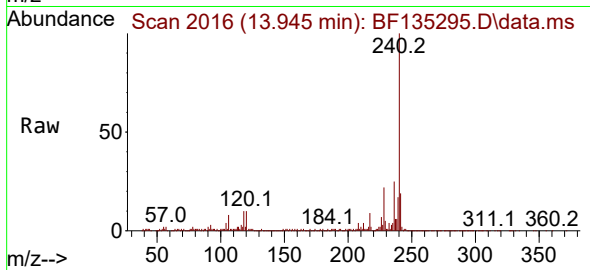
#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.945 min Scan# 2016
Delta R.T. 0.000 min
Lab File: BF135295.D
Acq: 15 Sep 2023 23:41

Instrument :

BNA_F

ClientSampleId :

OR-02-091223

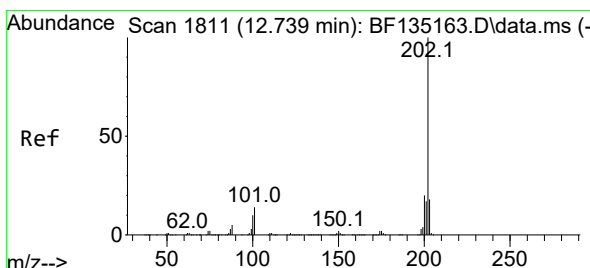
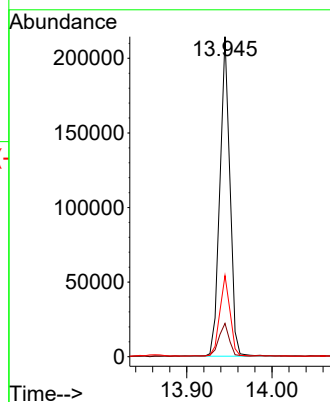
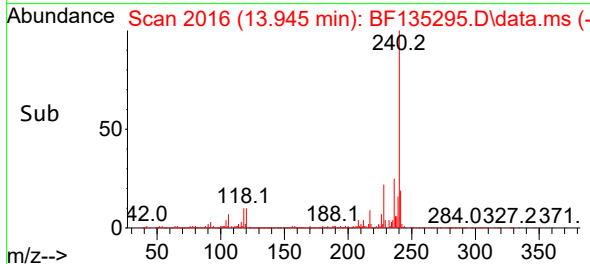


Tgt Ion:240 Resp: 175207
Ion Ratio Lower Upper
240 100
120 10.4 9.4 14.2
236 25.4 19.8 29.8

Manual Integrations

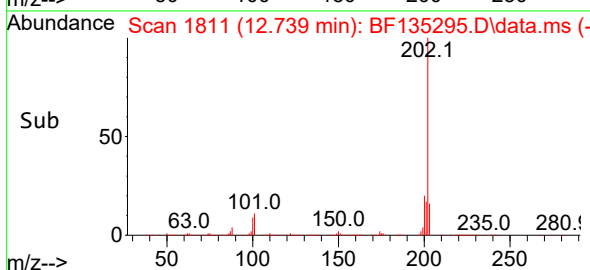
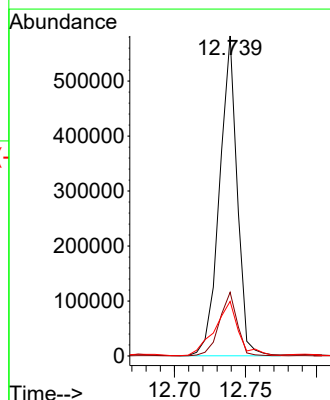
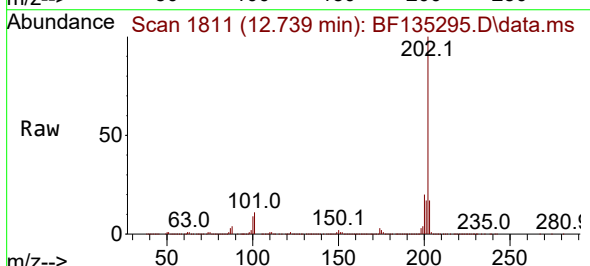
APPROVED

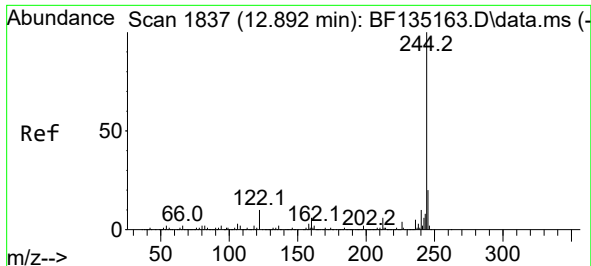
Reviewed By :Yogesh Patel 09/18/2023
Supervised By :mohammad ahmed 09/19/2023



#78
Pyrene
Concen: 30.047 ng
RT: 12.739 min Scan# 1811
Delta R.T. 0.000 min
Lab File: BF135295.D
Acq: 15 Sep 2023 23:41

Tgt Ion:202 Resp: 501208
Ion Ratio Lower Upper
202 100
200 19.9 16.2 24.2
203 17.1 14.2 21.4





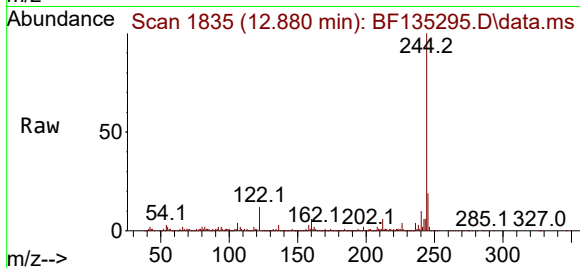
#79
 Terphenyl-d14
 Concen: 15.842 ng
 RT: 12.880 min Scan# 11
 Delta R.T. -0.012 min
 Lab File: BF135295.D
 Acq: 15 Sep 2023 23:41

Instrument :

BNA_F

ClientSampleId :

OR-02-091223



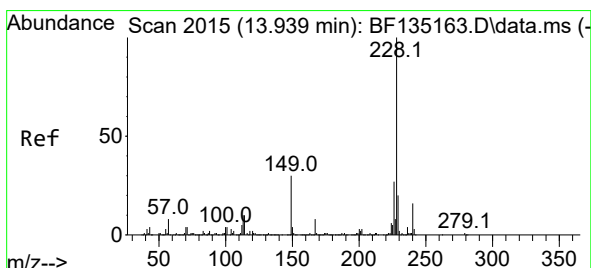
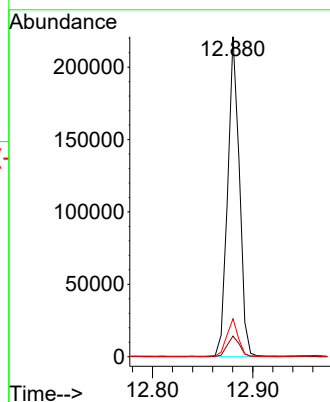
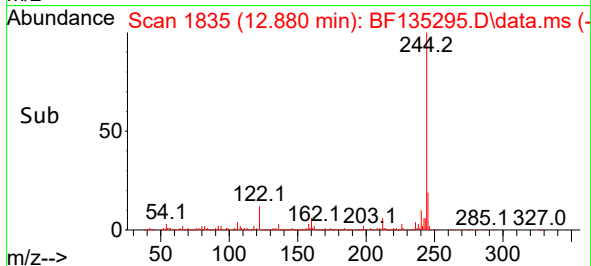
Tgt Ion:244 Resp: 179052
 Ion Ratio Lower Upper
 244 100
 212 6.4 5.1 7.7
 122 11.9 7.9 11.9

Manual Integrations

APPROVED

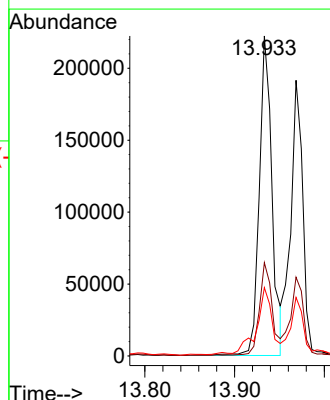
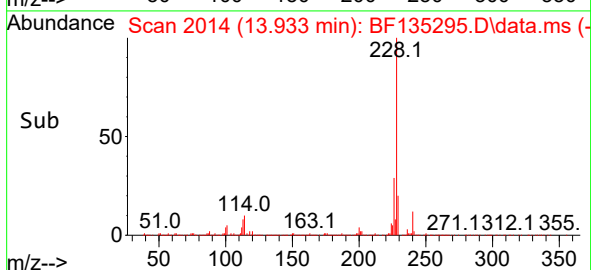
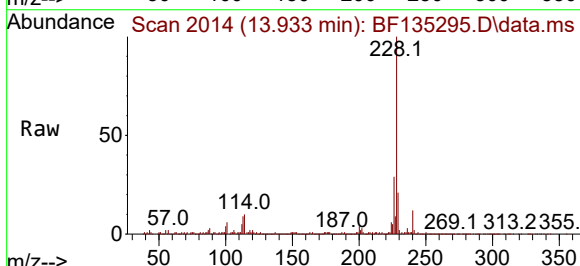
Reviewed By :Yogesh Patel 09/18/2023

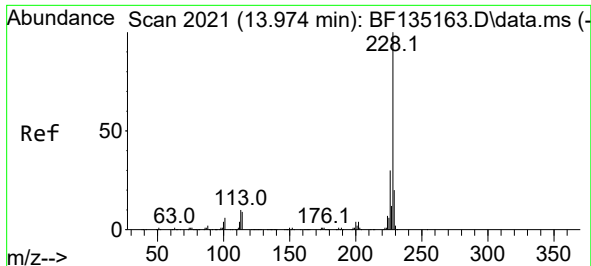
Supervised By :mohammad ahmed 09/19/2023



#81
 Benzo(a)anthracene
 Concen: 19.287 ng
 RT: 13.933 min Scan# 2014
 Delta R.T. -0.006 min
 Lab File: BF135295.D
 Acq: 15 Sep 2023 23:41

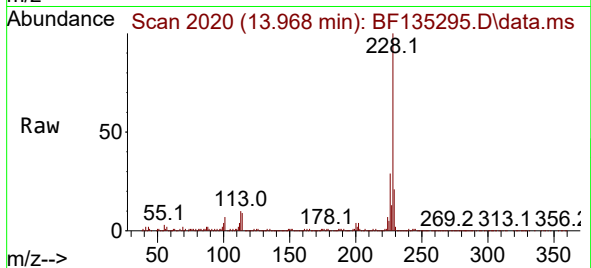
Tgt Ion:228 Resp: 218204
 Ion Ratio Lower Upper
 228 100
 226 29.2 21.7 32.5
 229 21.3 15.8 23.8





#83
Chrysene
Concen: 15.973 ng
RT: 13.968 min Scan# 2021
Delta R.T. -0.006 min
Lab File: BF135295.D
Acq: 15 Sep 2023 23:41

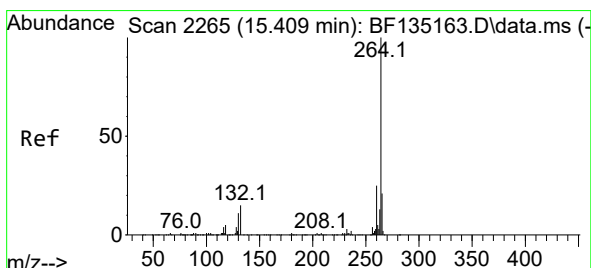
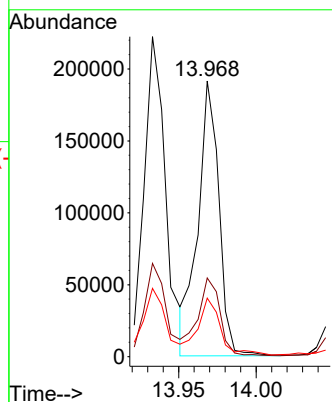
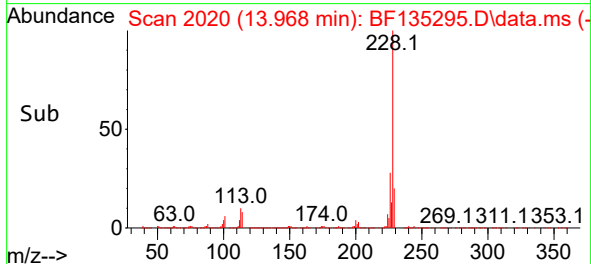
Instrument :
BNA_F
ClientSampleId :
OR-02-091223



Tgt Ion:228 Resp: 179672
Ion Ratio Lower Upper
228 100
226 28.6 24.3 36.5
229 21.2 16.0 24.0

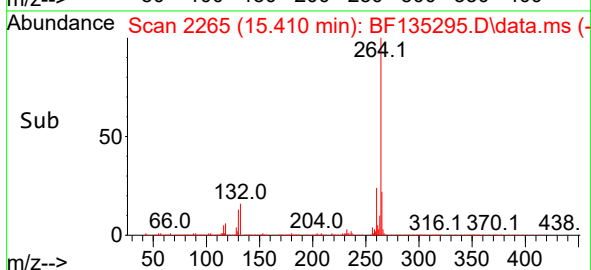
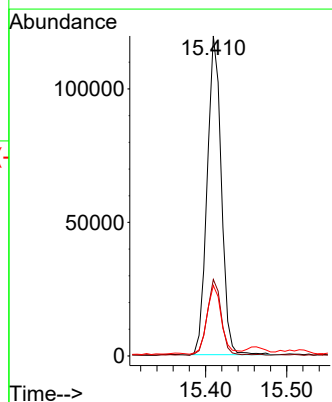
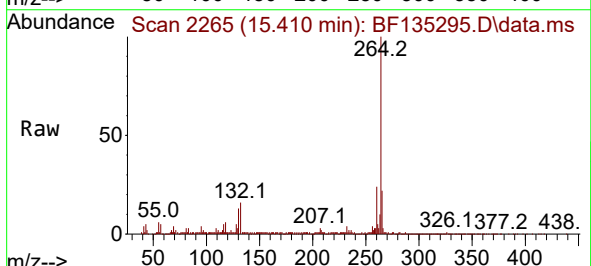
Manual Integrations
APPROVED

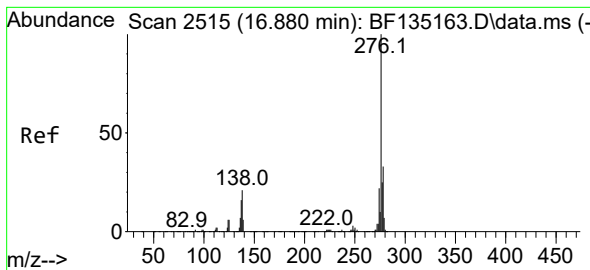
Reviewed By :Yogesh Patel 09/18/2023
Supervised By :mohammad ahmed 09/19/2023



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.410 min Scan# 2265
Delta R.T. 0.000 min
Lab File: BF135295.D
Acq: 15 Sep 2023 23:41

Tgt Ion:264 Resp: 143852
Ion Ratio Lower Upper
264 100
260 23.9 19.8 29.6
265 22.0 17.0 25.4





#87

Indeno(1,2,3-cd)pyrene

Concen: 6.172 ng

RT: 16.886 min Scan# 2515

Delta R.T. 0.006 min

Lab File: BF135295.D

Acq: 15 Sep 2023 23:41

Instrument :

BNA_F

ClientSampleId :

OR-02-091223

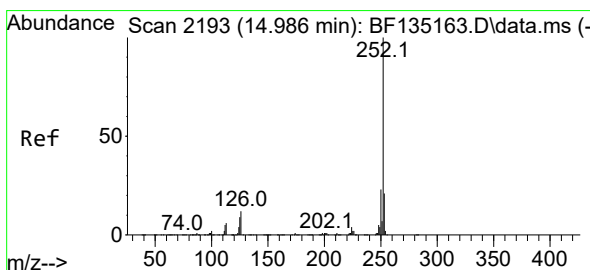
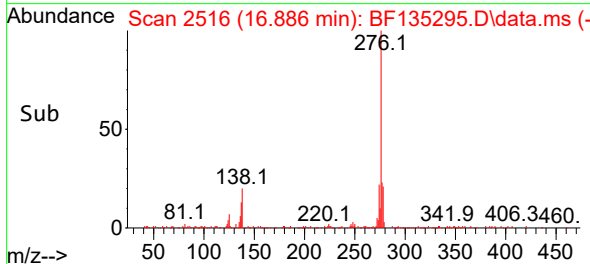
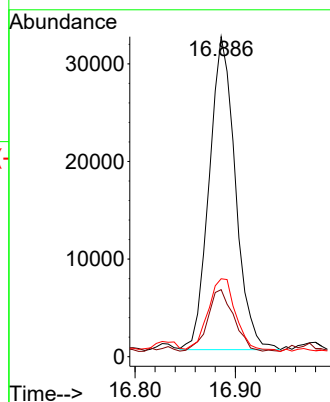
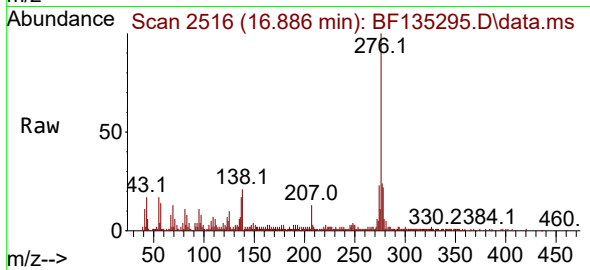
Tgt Ion:	276	Resp:	58214
Ion Ratio	Lower	Upper	
276	100		
138	19.8	19.2	28.8
277	25.2	19.7	29.5

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 09/18/2023

Supervised By :mohammad ahmed 09/19/2023



#88

Benzo(b)fluoranthene

Concen: 21.780 ng m

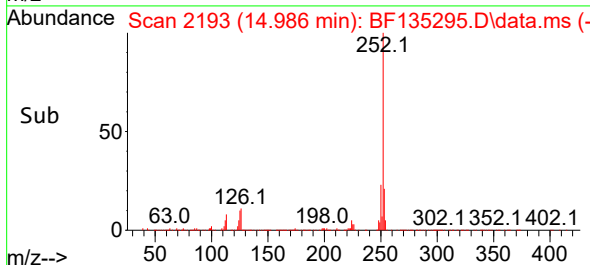
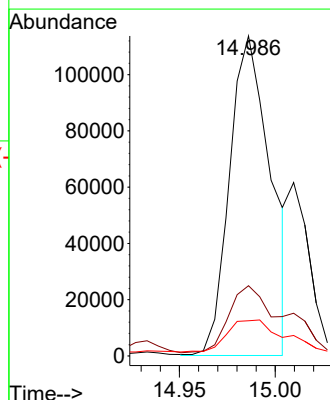
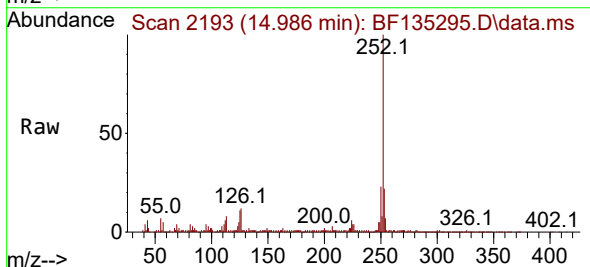
RT: 14.986 min Scan# 2193

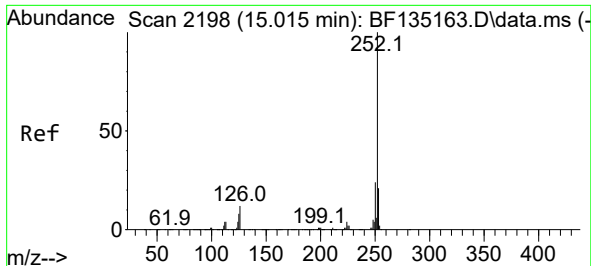
Delta R.T. 0.000 min

Lab File: BF135295.D

Acq: 15 Sep 2023 23:41

Tgt Ion:	252	Resp:	169604
Ion Ratio	Lower	Upper	
252	100		
253	22.0	17.2	25.8
125	11.0	7.1	10.7#





#89

Benzo(k)fluoranthene

Concen: 6.051 ng m

RT: 15.010 min Scan# 2198

Delta R.T. -0.006 min

Lab File: BF135295.D

Acq: 15 Sep 2023 23:41

Instrument :

BNF

ClientSampleId :

OR-02-091223

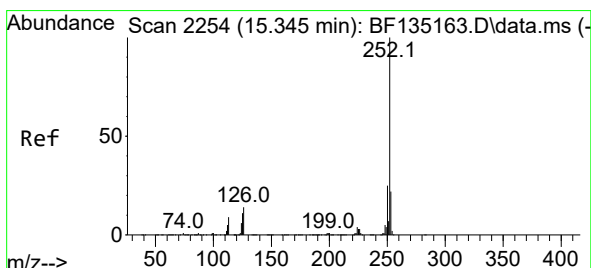
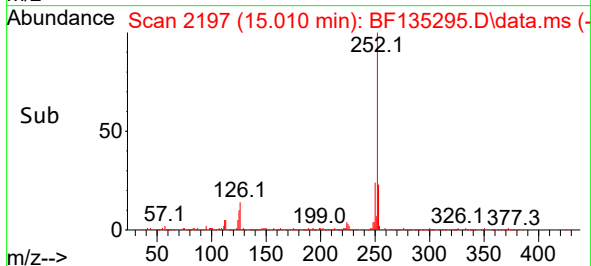
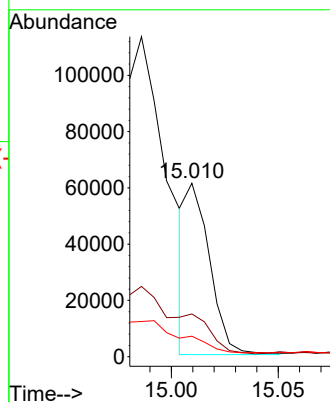
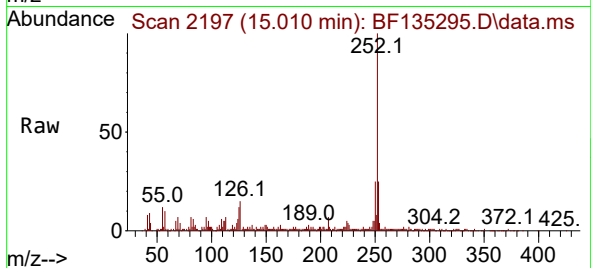
Tgt Ion:252 Resp: 46544
 Ion Ratio Lower Upper
 252 100
 253 24.6 17.4 26.0
 125 11.9 7.2 10.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 09/18/2023

Supervised By :mohammad ahmed 09/19/2023



#90

Benzo(a)pyrene

Concen: 15.698 ng

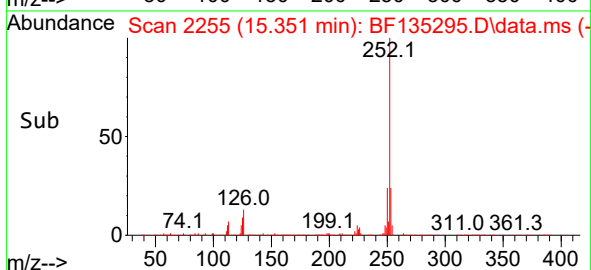
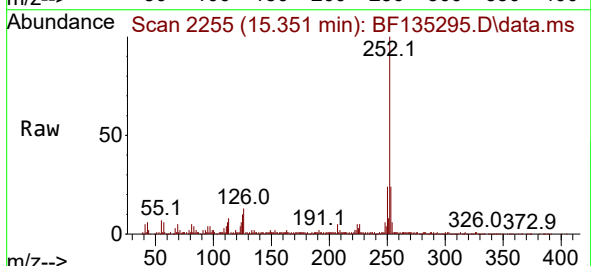
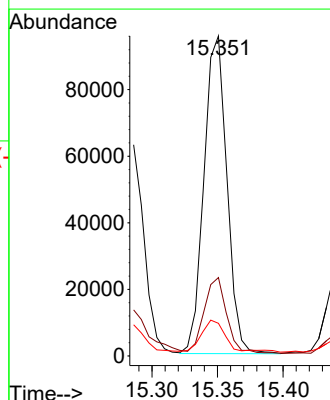
RT: 15.351 min Scan# 2255

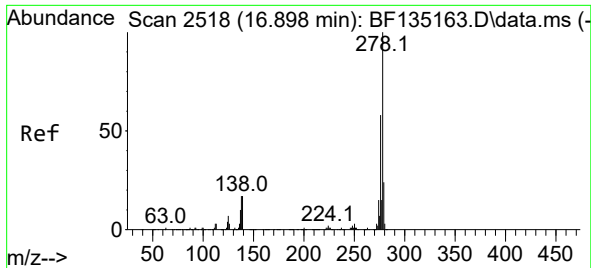
Delta R.T. 0.006 min

Lab File: BF135295.D

Acq: 15 Sep 2023 23:41

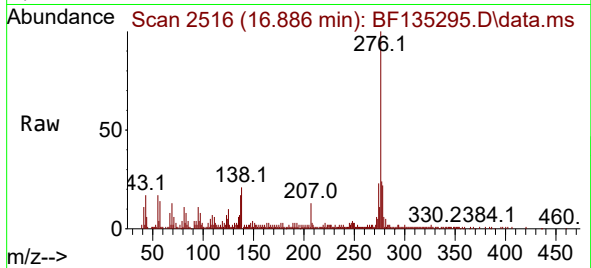
Tgt Ion:252 Resp: 116578
 Ion Ratio Lower Upper
 252 100
 253 24.5 17.5 26.3
 125 10.2 9.2 13.8





#91
Dibenzo(a,h)anthracene
Concen: 2.026 ng
RT: 16.886 min Scan# 2518
Delta R.T. -0.012 min
Lab File: BF135295.D
Acq: 15 Sep 2023 23:41

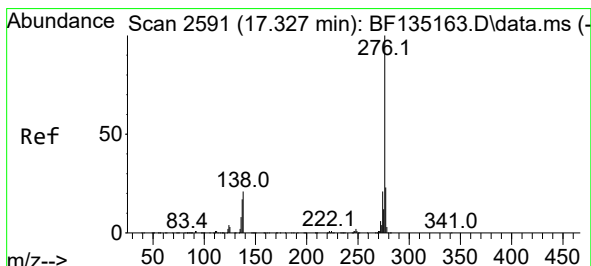
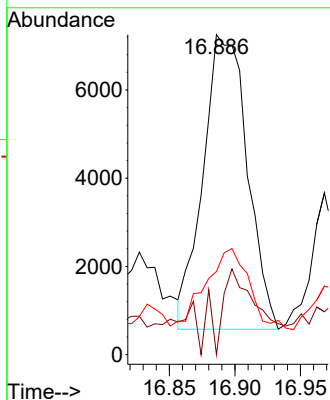
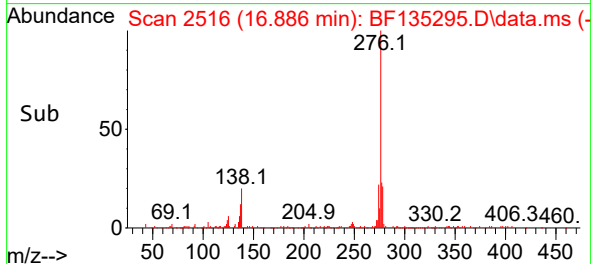
Instrument :
BNA_F
ClientSampleId :
OR-02-091223



Tgt Ion: 278 Resp: 1563
Ion Ratio Lower Upper
278 100
139 0.0 13.4 20.0
279 26.0 19.0 28.6

Manual Integrations
APPROVED

Reviewed By : Yogesh Patel 09/18/2023
Supervised By : mohammad ahmed 09/19/2023



#92
Benzo(g,h,i)perylene
Concen: 7.067 ng
RT: 17.333 min Scan# 2592
Delta R.T. 0.006 min
Lab File: BF135295.D
Acq: 15 Sep 2023 23:41

Tgt Ion: 276 Resp: 56956
Ion Ratio Lower Upper
276 100
277 25.3 18.8 28.2
138 20.0 16.9 25.3

