

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101223\
 Data File : BF135738.D
 Acq On : 12 Oct 2023 16:59
 Operator : CG\JU
 Sample : 04657-09
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 W-2(0-2IN)

Quant Time: Oct 13 00:56:24 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF091123.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Oct 11 02:43:17 2023
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/13/2023
 Supervised By :mohammad ahmed 10/13/2023

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.739	152	82845	20.000	ng	0.00
21) Naphthalene-d8	8.016	136	301056	20.000	ng	0.00
39) Acenaphthene-d10	9.774	164	150556	20.000	ng	0.00
64) Phenanthrene-d10	11.268	188	235186	20.000	ng	0.00
76) Chrysene-d12	13.933	240	149457	20.000	ng	0.00
86) Perylene-d12	15.409	264	139308	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.375	112	469764	92.226	ng	0.00
7) Phenol-d6	6.392	99	581460	89.775	ng	0.00
23) Nitrobenzene-d5	7.304	82	315693	56.971	ng	0.00
42) 2,4,6-Tribromophenol	10.574	330	108907	72.791	ng	0.00
45) 2-Fluorobiphenyl	9.098	172	563463	56.465	ng	0.00
79) Terphenyl-d14	12.863	244	390375	40.490	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.039	128	72644	4.966	ng	99
37) 2-Methylnaphthalene	8.733	142	25057	2.548	ng	98
38) 1-Methylnaphthalene	8.833	142	19652	2.135	ng	94
49) Acenaphthylene	9.639	152	103174	7.395	ng	99
58) Fluorene	10.327	166	28292	2.926	ng	# 99
71) Phenanthrene	11.292	178	281431	25.301	ng	99
72) Anthracene	11.351	178	88743	7.762	ng	100
75) Fluoranthene	12.492	202	417617	36.031	ng	99
78) Pyrene	12.727	202	483475	33.977	ng	99
80) Butylbenzylphthalate	13.345	149	10463	2.088	ng	93
81) Benzo(a)anthracene	13.927	228	268715m	27.844	ng	
83) Chrysene	13.962	228	249201	25.972	ng	97
84) Bis(2-ethylhexyl)phtha...	13.904	149	11252	2.189	ng	98
87) Indeno(1,2,3-cd)pyrene	16.903	276	95325	10.436	ng	95
88) Benzo(b)fluoranthene	14.980	252	305311m	40.485	ng	
89) Benzo(k)fluoranthene	15.004	252	105281m	14.133	ng	
90) Benzo(a)pyrene	15.345	252	210855	29.320	ng	99
91) Dibenzo(a,h)anthracene	16.903	278	27632m	3.697	ng	
92) Benzo(g,h,i)perylene	17.356	276	91682	11.746	ng	98

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

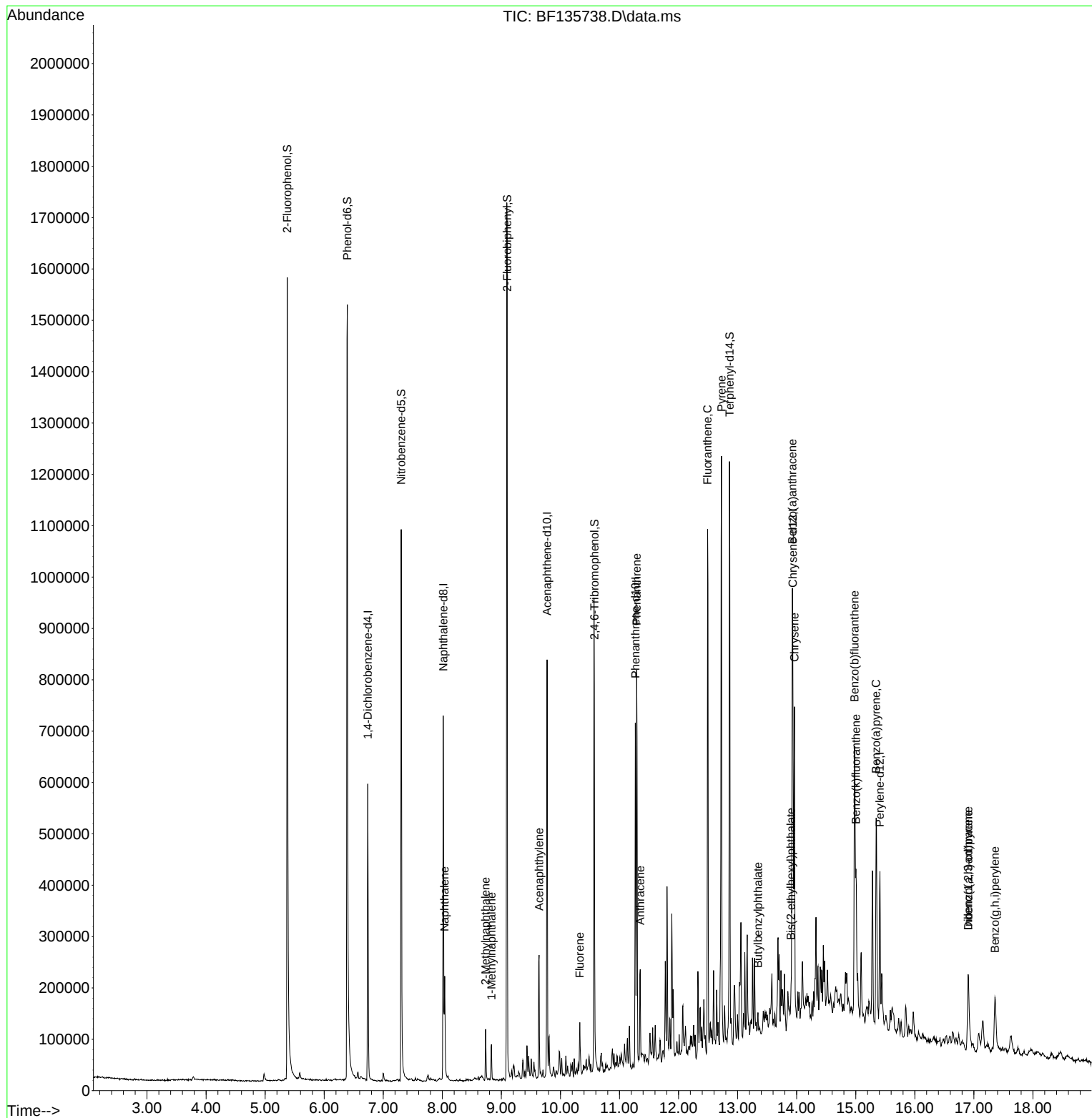
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101223\
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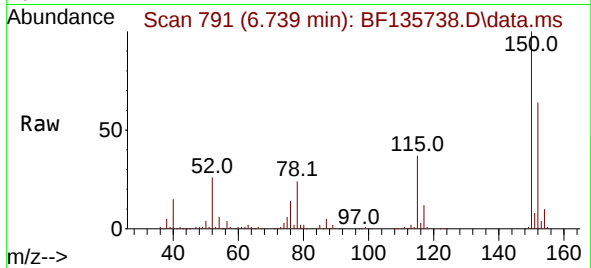
Reviewed By :Yogesh Patel 10/13/2023
Supervised By :mohammad ahmed 10/13/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.739 min Scan# 795
Delta R.T. 0.000 min
Lab File: BF135738.D
Acq: 12 Oct 2023 16:59

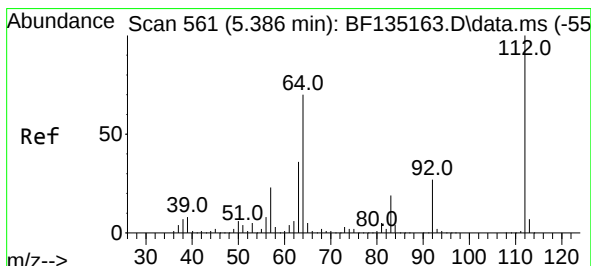
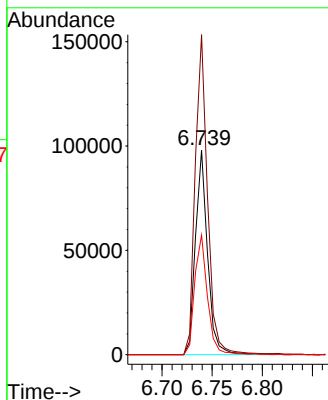
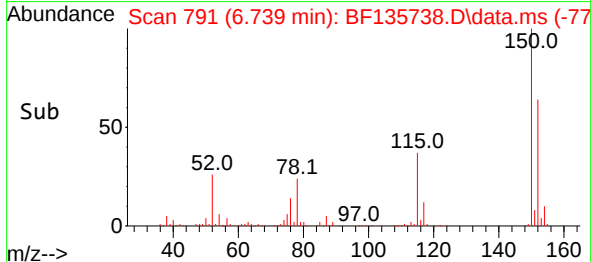
Instrument :
BNA_F
ClientSampleId :
W-2(0-2IN)



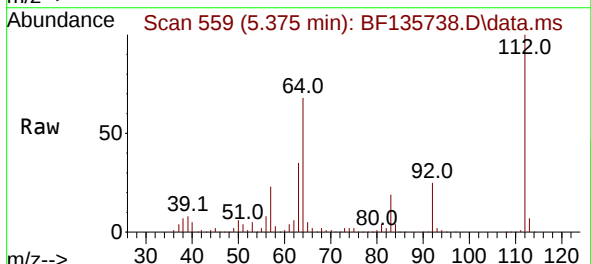
Tgt Ion:152 Resp: 82849
Ion Ratio Lower Upper
152 100
150 156.4 127.8 191.6
115 58.5 49.8 74.8

Manual Integrations
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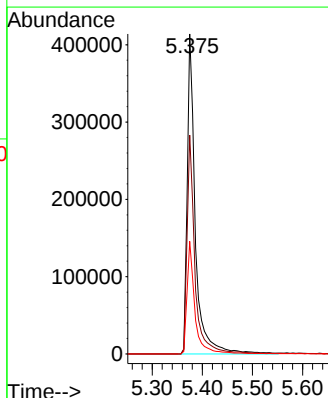
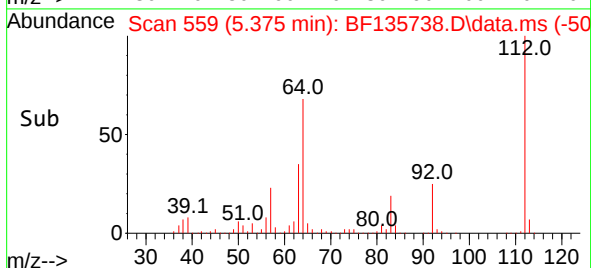
Reviewed By :Yogesh Patel 10/13/2023
Supervised By :mohammad ahmed 10/13/2023

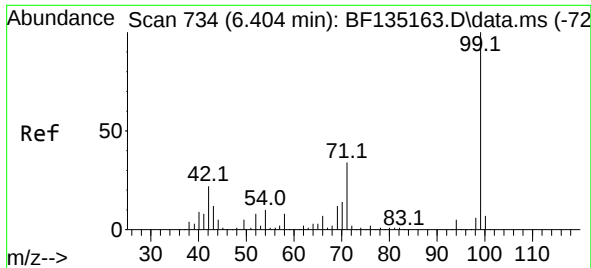


#5
2-Fluorophenol
Concen: 92.226 ng
RT: 5.375 min Scan# 559
Delta R.T. 0.006 min
Lab File: BF135738.D
Acq: 12 Oct 2023 16:59



Tgt Ion:112 Resp: 469764
Ion Ratio Lower Upper
112 100
64 68.4 55.9 83.9
63 35.2 29.0 43.6





#7

Phenol-d6

Concen: 89.775 ng

RT: 6.392 min Scan# 71

Delta R.T. -0.000 min

Lab File: BF135738.D

Acq: 12 Oct 2023 16:59

Instrument :

BNA_F

ClientSampleId :

W-2(0-2IN)

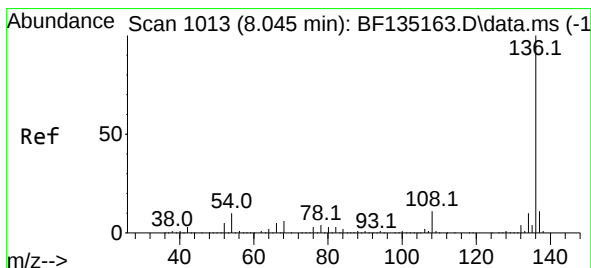
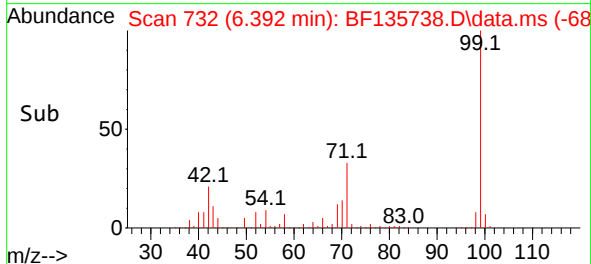
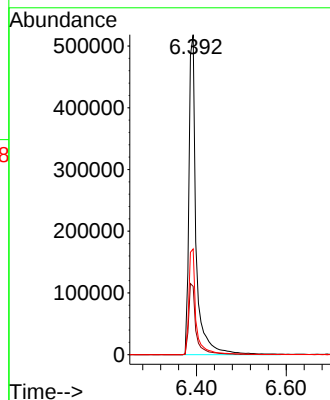
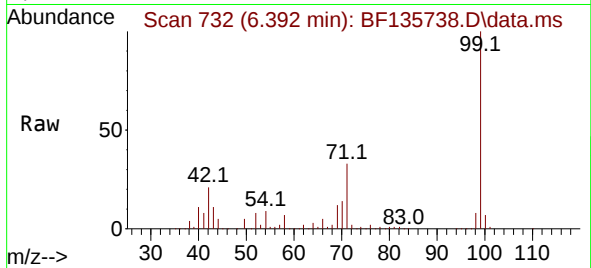
Tgt Ion: 99 Resp: 581460
 Ion Ratio Lower Upper
 99 100
 42 21.4 17.9 26.9
 71 33.0 27.0 40.6

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#21

Naphthalene-d8

Concen: 20.000 ng

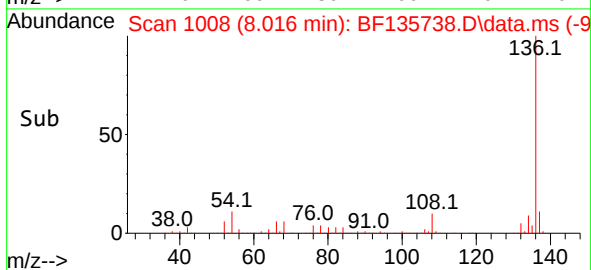
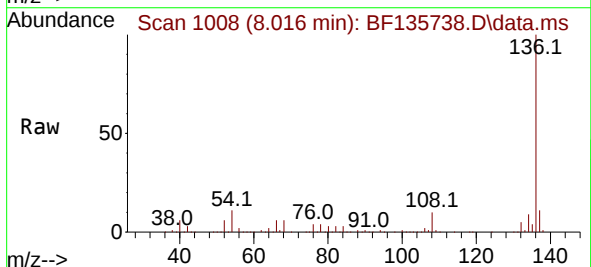
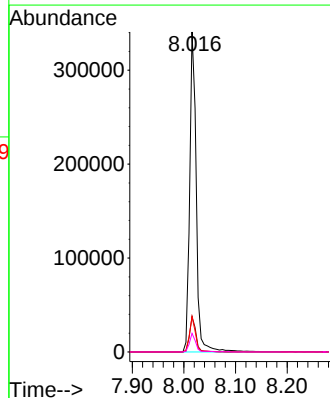
RT: 8.016 min Scan# 1008

Delta R.T. -0.006 min

Lab File: BF135738.D

Acq: 12 Oct 2023 16:59

Tgt Ion:136 Resp: 301056
 Ion Ratio Lower Upper
 136 100
 137 11.1 8.8 13.2
 54 11.0 7.7 11.5
 68 5.8 4.6 6.8





#23

Nitrobenzene-d5

Concen: 56.971 ng

RT: 7.304 min Scan# 81

Delta R.T. -0.006 min

Lab File: BF135738.D

Acq: 12 Oct 2023 16:59

Instrument :

BNA_F

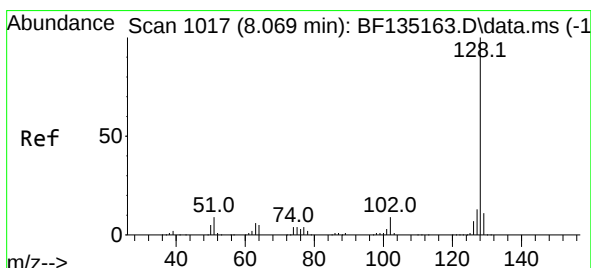
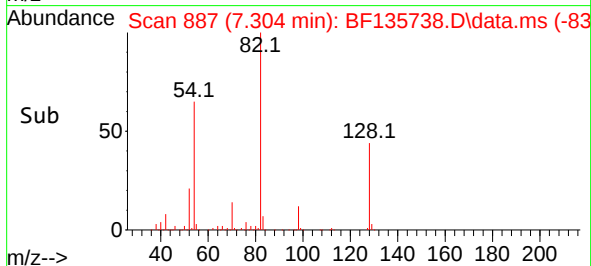
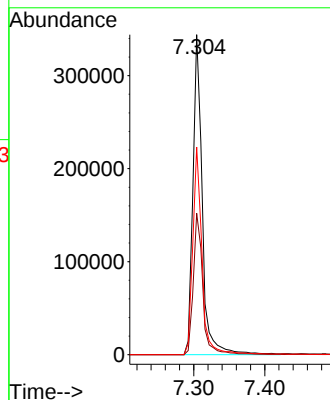
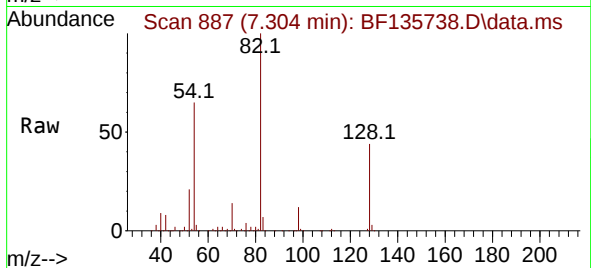
ClientSampleId :

W-2(0-2IN)

Tgt Ion: 82 Resp: 31569
 Ion Ratio Lower Upper
 82 100
 128 44.2 35.8 53.6
 54 64.9 50.6 76.0

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 Supervised By :mohammad ahmed 10/13/2023



#31

Naphthalene

Concen: 4.966 ng

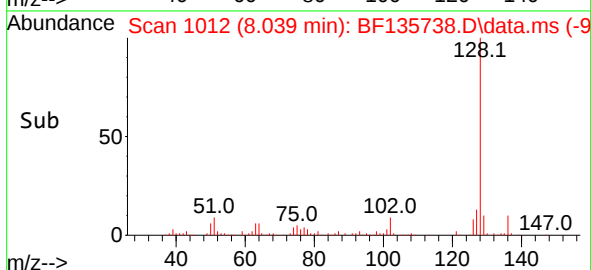
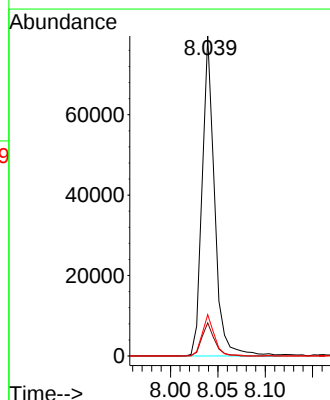
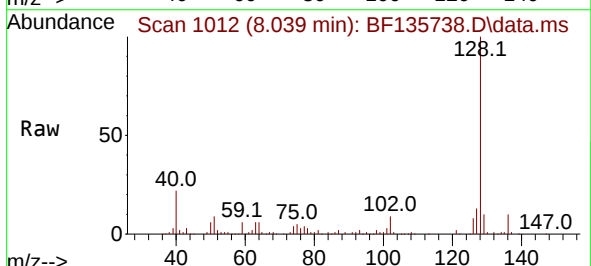
RT: 8.039 min Scan# 1012

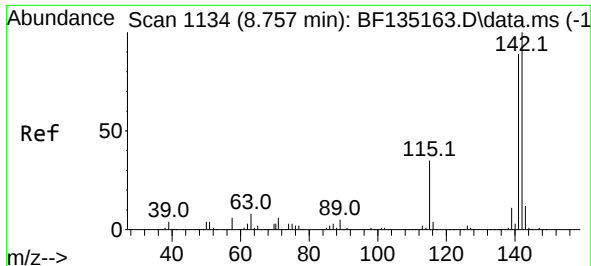
Delta R.T. -0.000 min

Lab File: BF135738.D

Acq: 12 Oct 2023 16:59

Tgt Ion:128 Resp: 72644
 Ion Ratio Lower Upper
 128 100
 129 10.3 8.7 13.1
 127 12.9 10.7 16.1





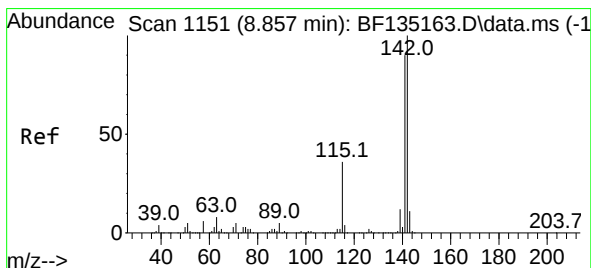
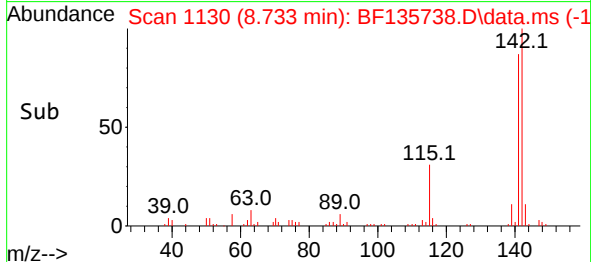
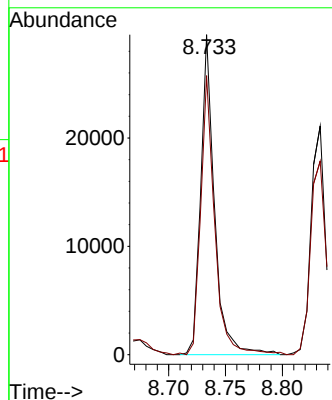
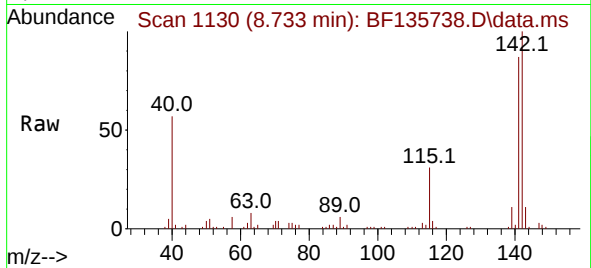
#37
2-Methylnaphthalene
Concen: 2.548 ng
RT: 8.733 min Scan# 1147
Delta R.T. -0.000 min
Lab File: BF135738.D
Acq: 12 Oct 2023 16:59

Instrument :
BNA_F
ClientSampleId :
W-2(0-2IN)

Tgt Ion:142 Resp: 2505
Ion Ratio Lower Upper
142 100
141 87.2 71.0 106.6

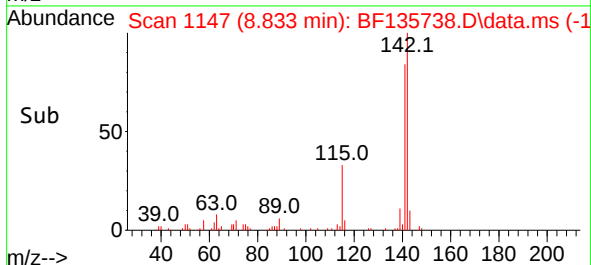
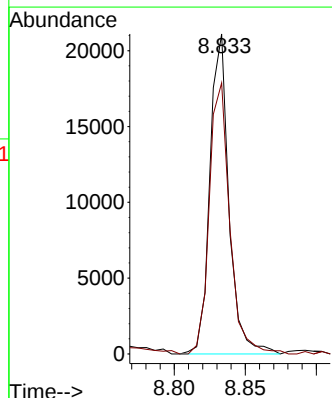
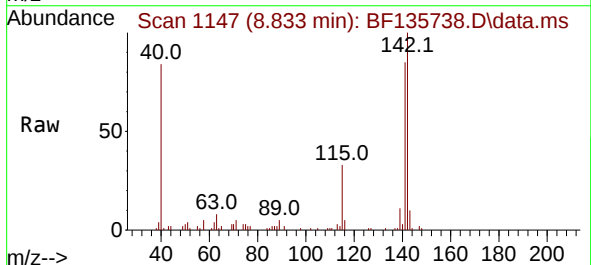
Manual Integrations
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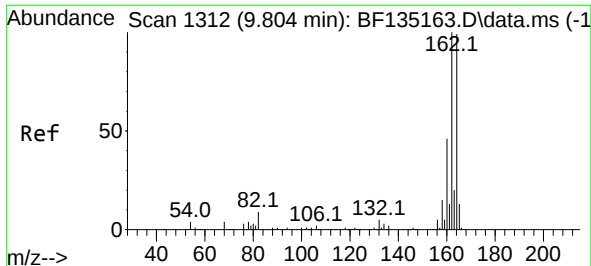
Reviewed By :Yogesh Patel 10/13/2023
Supervised By :mohammad ahmed 10/13/2023



#38
1-Methylnaphthalene
Concen: 2.135 ng
RT: 8.833 min Scan# 1147
Delta R.T. -0.000 min
Lab File: BF135738.D
Acq: 12 Oct 2023 16:59

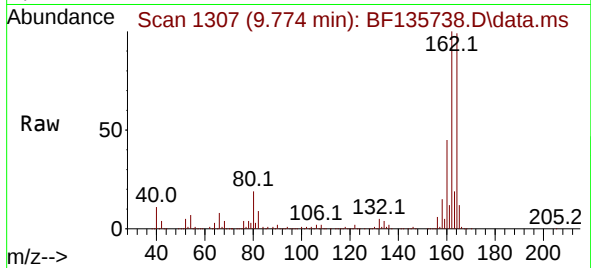
Tgt Ion:142 Resp: 19652
Ion Ratio Lower Upper
142 100
141 84.7 72.4 108.6





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.774 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF135738.D
Acq: 12 Oct 2023 16:59

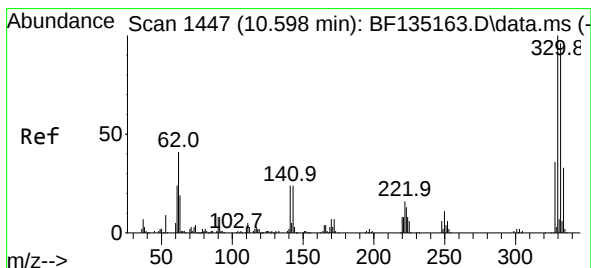
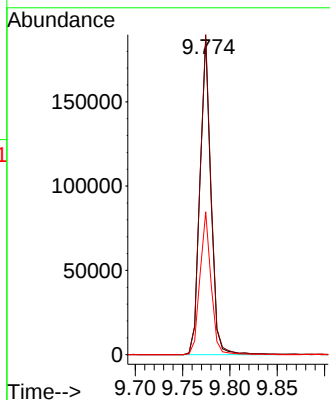
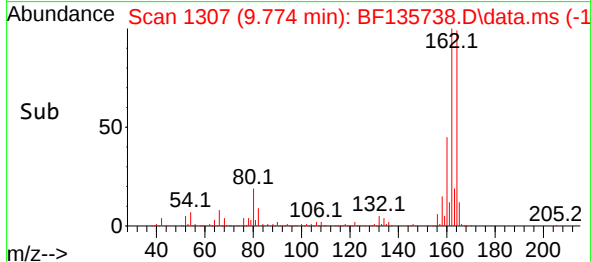
Instrument :
BNA_F
ClientSampleId :
W-2(0-2IN)



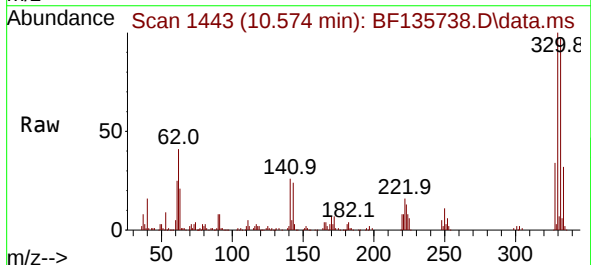
Tgt Ion:164 Resp: 150550
Ion Ratio Lower Upper
164 100
162 101.3 81.0 121.4
160 45.2 37.0 55.4

Manual Integrations
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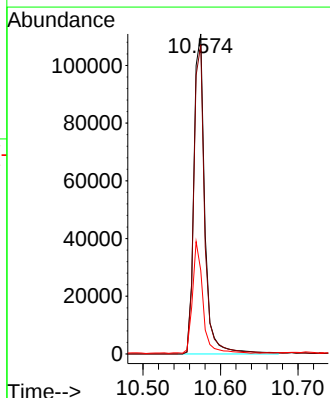
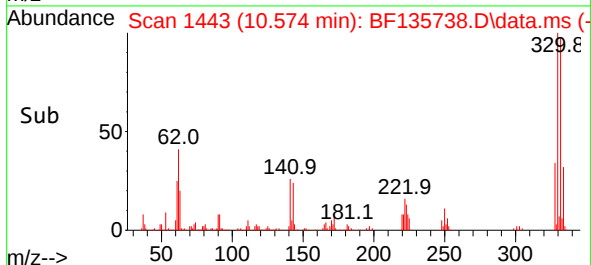
Reviewed By :Yogesh Patel 10/13/2023
Supervised By :mohammad ahmed 10/13/2023

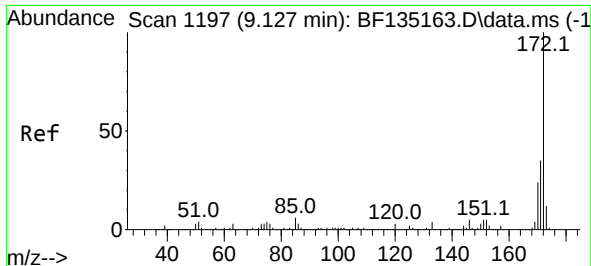


#42
2,4,6-Tribromophenol
Concen: 72.791 ng
RT: 10.574 min Scan# 1443
Delta R.T. -0.000 min
Lab File: BF135738.D
Acq: 12 Oct 2023 16:59



Tgt Ion:330 Resp: 108907
Ion Ratio Lower Upper
330 100
332 95.6 77.3 115.9
141 32.7 25.8 38.8





#45

2-Fluorobiphenyl

Concen: 56.465 ng

RT: 9.098 min Scan# 1197

Delta R.T. -0.000 min

Lab File: BF135738.D

Acq: 12 Oct 2023 16:59

Instrument :

BNA_F

ClientSampleId :

W-2(0-2IN)

Tgt Ion:172 Resp: 56346

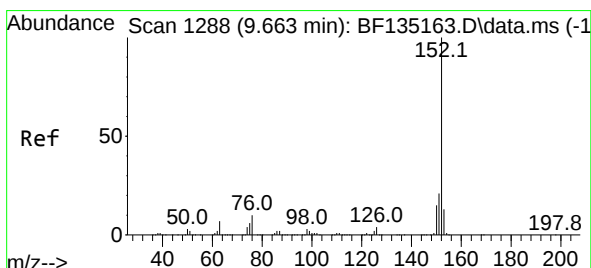
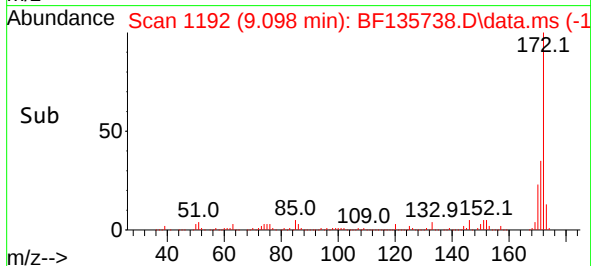
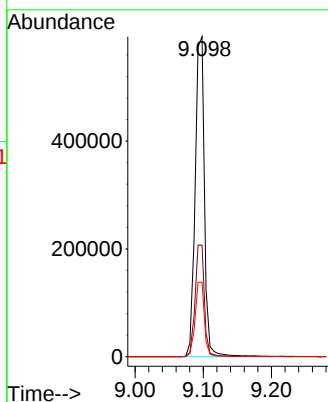
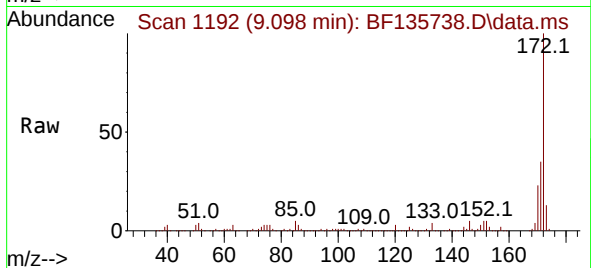
Ion	Ratio	Lower	Upper
172	100		
171	34.9	28.4	42.6
170	23.3	19.0	28.4

Manual Integrations

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Supervised By :mohammad ahmed 10/13/2023



#49

Acenaphthylene

Concen: 7.395 ng

RT: 9.639 min Scan# 1284

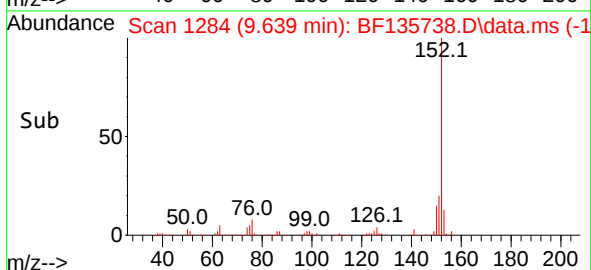
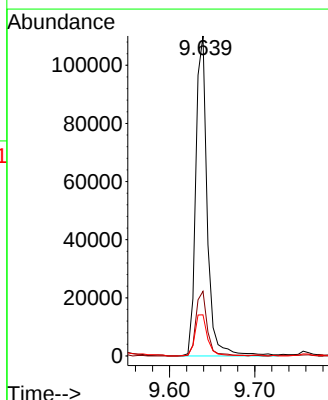
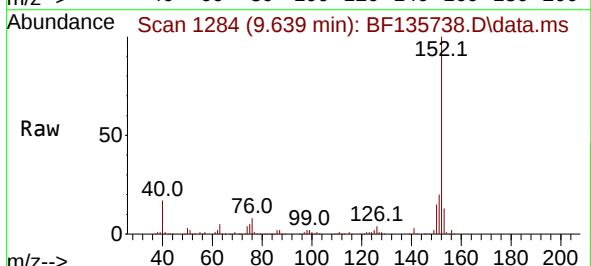
Delta R.T. -0.000 min

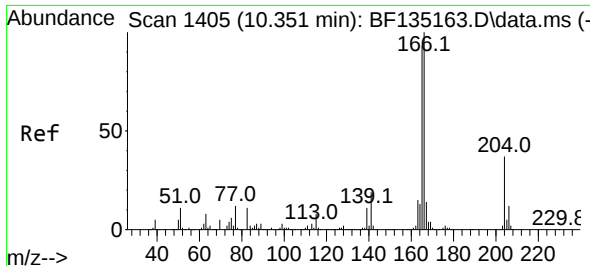
Lab File: BF135738.D

Acq: 12 Oct 2023 16:59

Tgt Ion:152 Resp: 103174

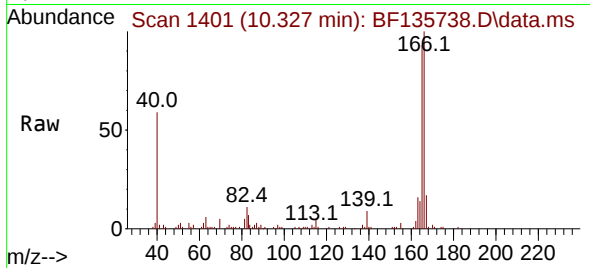
Ion	Ratio	Lower	Upper
152	100		
151	20.2	16.4	24.6
153	12.9	10.4	15.6





#58
Fluorene
Concen: 2.926 ng
RT: 10.327 min Scan# 1405
Delta R.T. -0.006 min
Lab File: BF135738.D
Acq: 12 Oct 2023 16:59

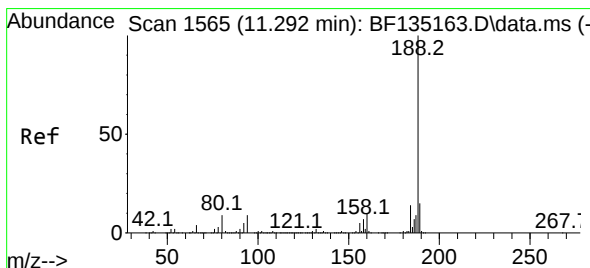
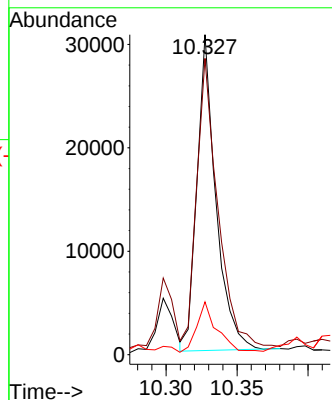
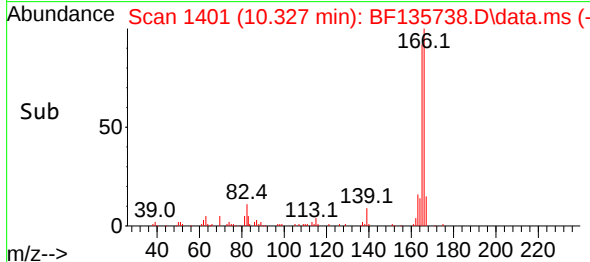
Instrument :
BNA_F
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W-2(0-2IN)



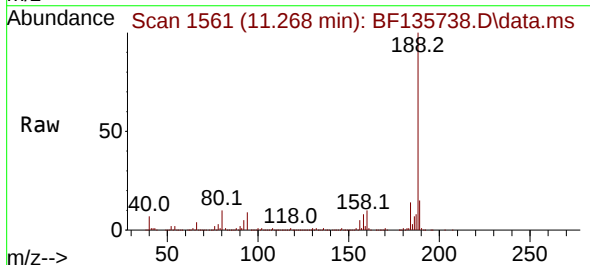
Tgt Ion:166 Resp: 2829
Ion Ratio Lower Upper
166 100
165 92.6 74.3 111.5
167 16.5 10.9 16.3

Manual Integrations
APPROVED

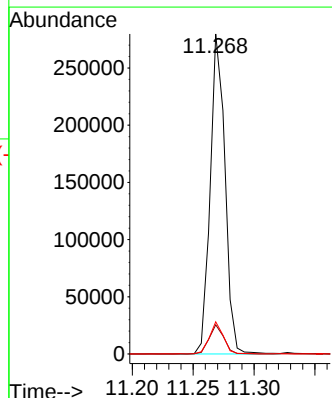
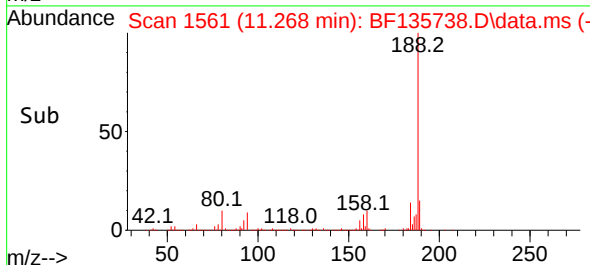
Reviewed By :Yogesh Patel 10/13/2023
Supervised By :mohammad ahmed 10/13/2023

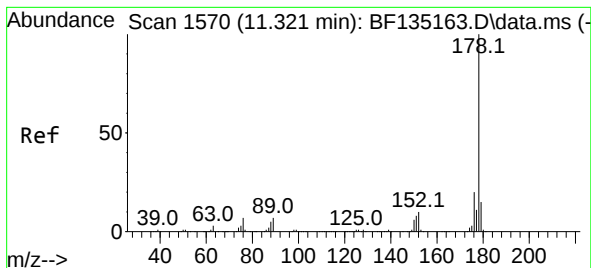


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.268 min Scan# 1561
Delta R.T. -0.006 min
Lab File: BF135738.D
Acq: 12 Oct 2023 16:59



Tgt Ion:188 Resp: 235186
Ion Ratio Lower Upper
188 100
94 9.1 7.0 10.6
80 10.0 7.5 11.3





#71

Phenanthrene

Concen: 25.301 ng

RT: 11.292 min Scan# 1565

Delta R.T. -0.006 min

Lab File: BF135738.D

Acq: 12 Oct 2023 16:59

Instrument :

BNA_F

ClientSampleId :

W-2(0-2IN)

Tgt Ion:178 Resp: 28143

Ion Ratio Lower Upper

178 100

176 19.9 15.6 23.4

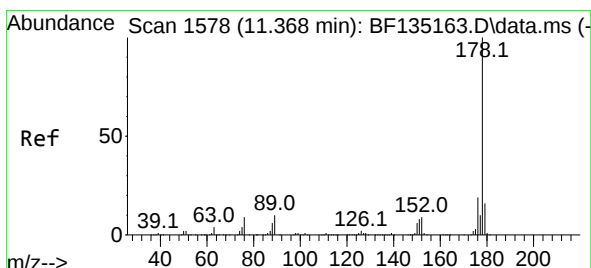
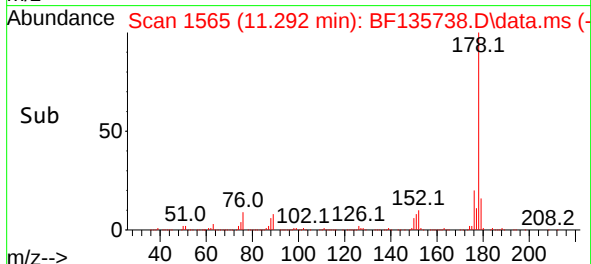
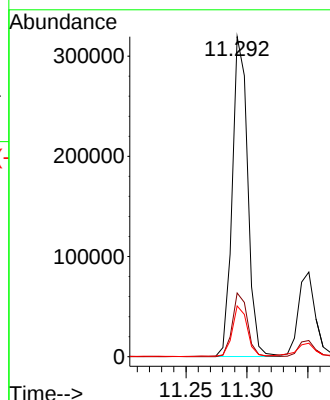
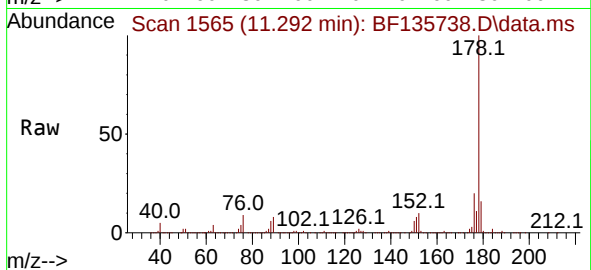
179 15.9 12.0 18.0

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/13/2023

Supervised By :mohammad ahmed 10/13/2023



#72

Anthracene

Concen: 7.762 ng

RT: 11.351 min Scan# 1575

Delta R.T. -0.000 min

Lab File: BF135738.D

Acq: 12 Oct 2023 16:59

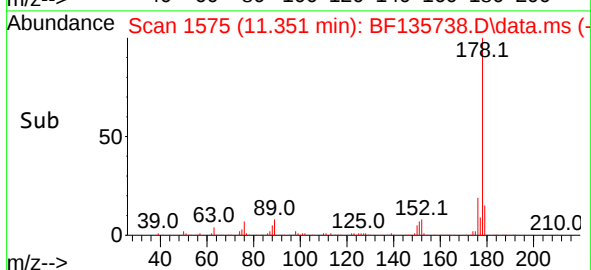
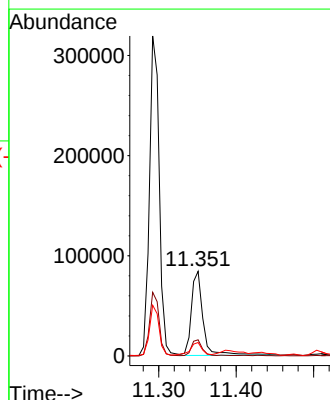
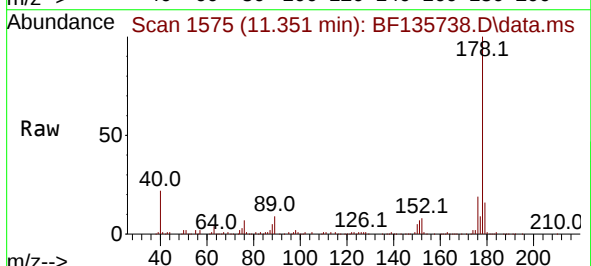
Tgt Ion:178 Resp: 88743

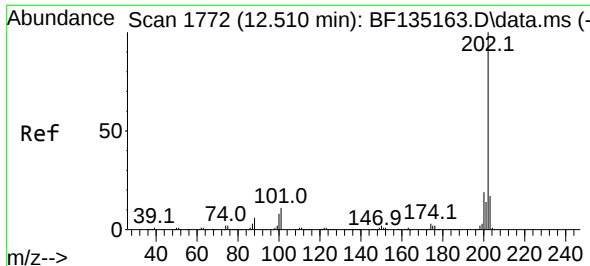
Ion Ratio Lower Upper

178 100

176 19.1 15.4 23.2

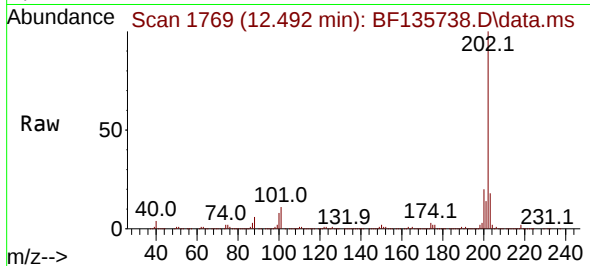
179 15.9 12.6 19.0





#75
Fluoranthene
Concen: 36.031 ng
RT: 12.492 min Scan# 1769
Delta R.T. -0.006 min
Lab File: BF135738.D
Acq: 12 Oct 2023 16:59

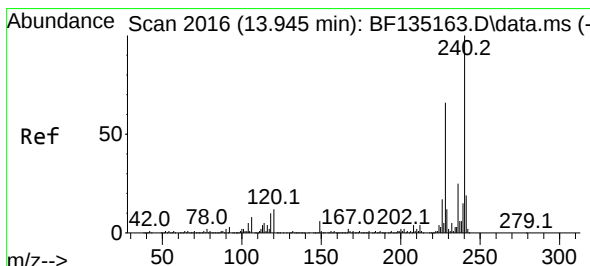
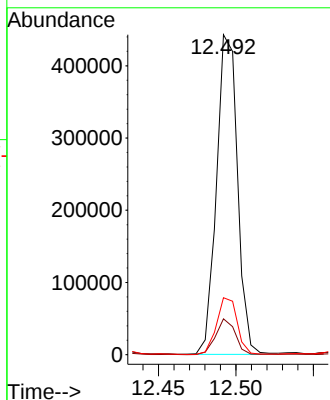
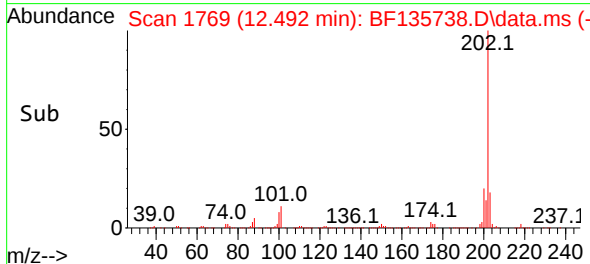
Instrument :
BNA_F
ClientSampleId :
W-2(0-2IN)



Tgt Ion:202 Resp: 41761
Ion Ratio Lower Upper
202 100
101 11.2 0.0 31.3
203 17.8 0.0 37.4

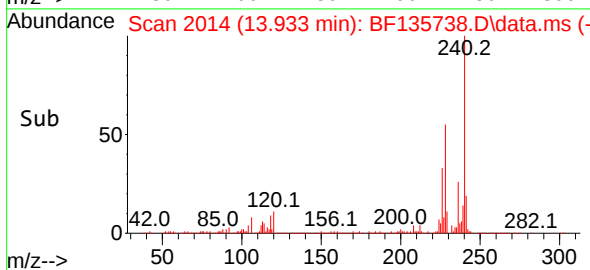
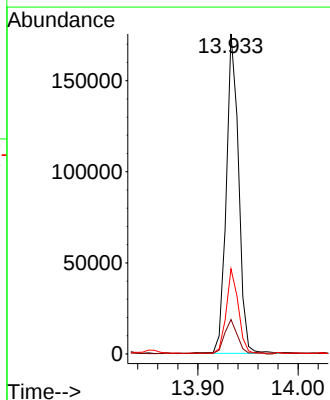
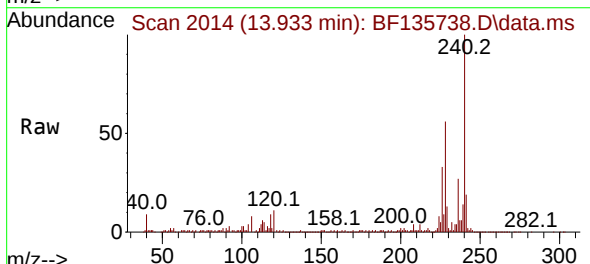
Manual Integrations
APPROVED

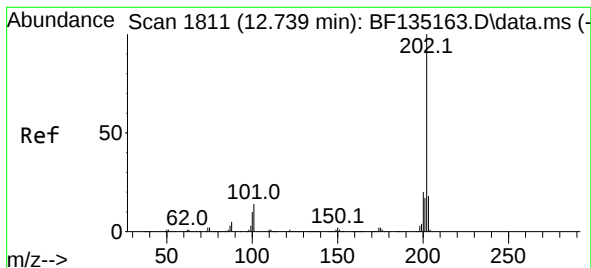
Reviewed By :Yogesh Patel 10/13/2023
Supervised By :mohammad ahmed 10/13/2023



#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.933 min Scan# 2014
Delta R.T. -0.006 min
Lab File: BF135738.D
Acq: 12 Oct 2023 16:59

Tgt Ion:240 Resp: 149457
Ion Ratio Lower Upper
240 100
120 10.7 9.4 14.2
236 26.6 19.8 29.8





#78

Pyrene

Concen: 33.977 ng

RT: 12.727 min Scan# 1809

Delta R.T. -0.000 min

Lab File: BF135738.D

Acq: 12 Oct 2023 16:59

Instrument :

BNA_F

ClientSampleId :

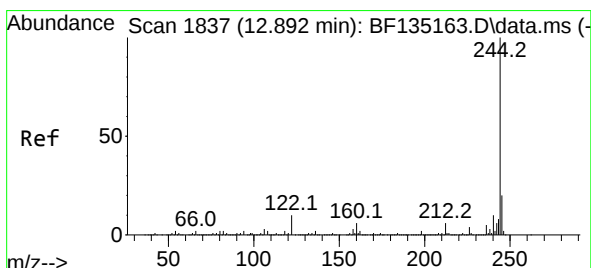
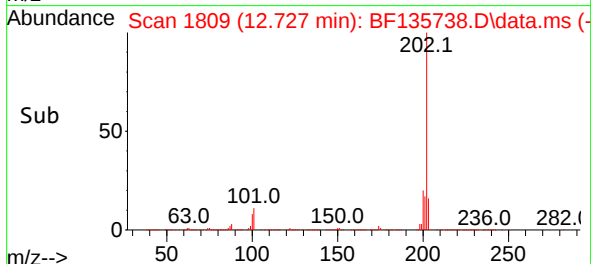
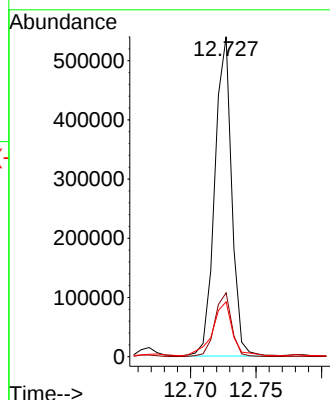
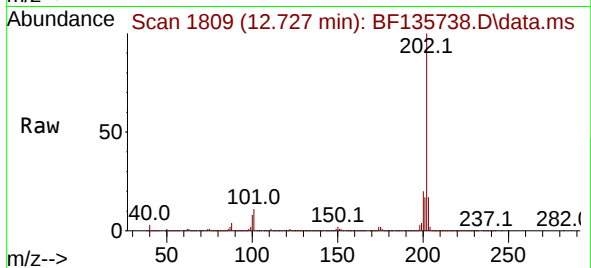
W-2(0-2IN)

Tgt Ion:202 Resp: 483475
 Ion Ratio Lower Upper
 202 100
 200 20.0 16.2 24.2
 203 17.2 14.2 21.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/13/2023
 Supervised By :mohammad ahmed 10/13/2023



#79

Terphenyl-d14

Concen: 40.490 ng

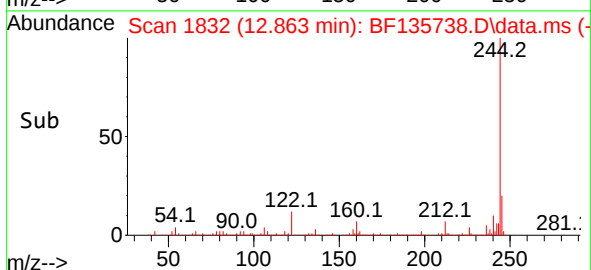
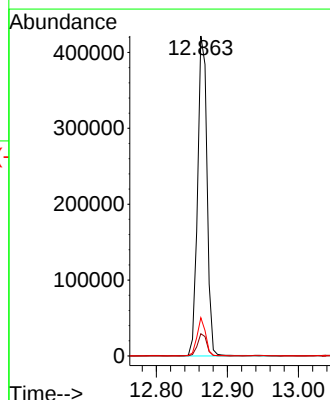
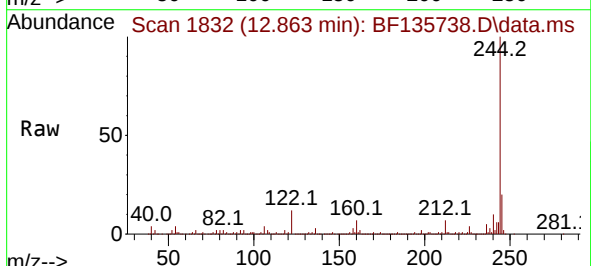
RT: 12.863 min Scan# 1832

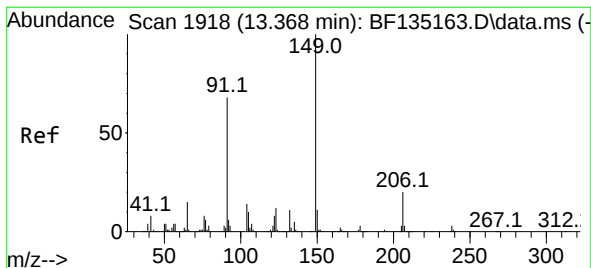
Delta R.T. -0.006 min

Lab File: BF135738.D

Acq: 12 Oct 2023 16:59

Tgt Ion:244 Resp: 390375
 Ion Ratio Lower Upper
 244 100
 212 6.9 5.1 7.7
 122 12.0 7.9 11.9#





#80

Butylbenzylphthalate

Concen: 2.088 ng

RT: 13.345 min Scan# 1918

Delta R.T. -0.000 min

Lab File: BF135738.D

Acq: 12 Oct 2023 16:59

Instrument :

BNA_F

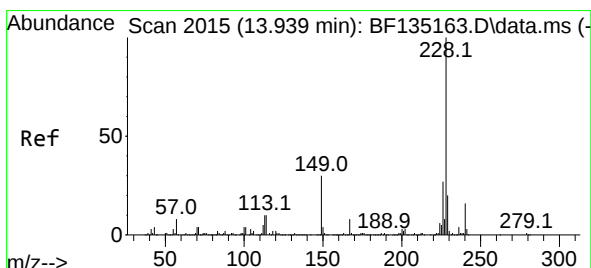
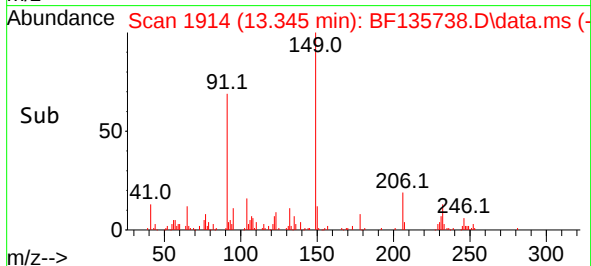
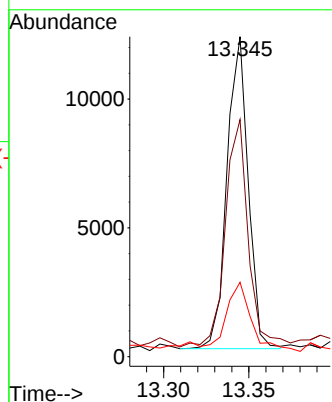
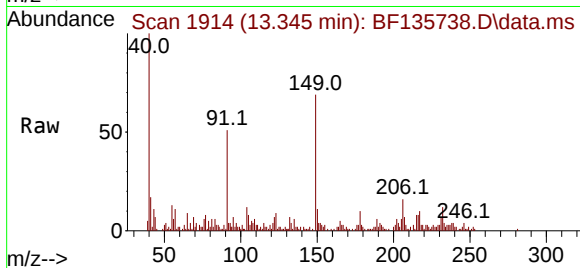
ClientSampleId :

W-2(0-2IN)

Tgt Ion:	149	Resp:	1046
Ion Ratio	Lower	Upper	
149	100		
91	74.1	54.7	82.1
206	23.3	16.3	24.5

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/13/2023
Supervised By :mohammad ahmed 10/13/2023



#81

Benzo(a)anthracene

Concen: 27.844 ng m

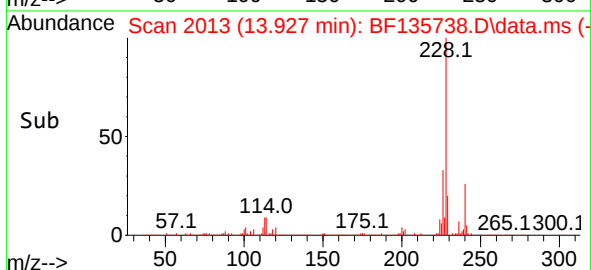
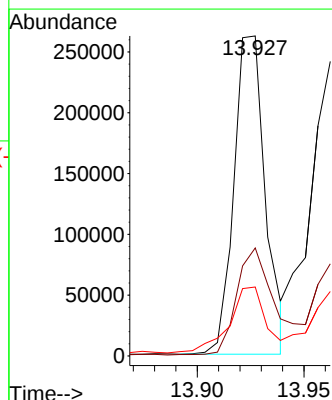
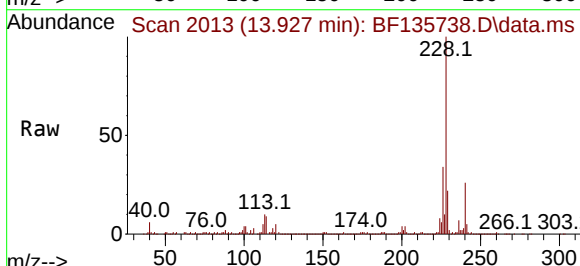
RT: 13.927 min Scan# 2013

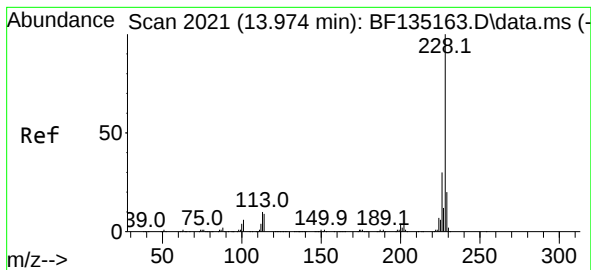
Delta R.T. -0.000 min

Lab File: BF135738.D

Acq: 12 Oct 2023 16:59

Tgt Ion:	228	Resp:	268715
Ion Ratio	Lower	Upper	
228	100		
226	33.8	21.7	32.5
229	21.6	15.8	23.8





#83

Chrysene

Concen: 25.972 ng

RT: 13.962 min Scan# 2009

Delta R.T. -0.000 min

Lab File: BF135738.D

Acq: 12 Oct 2023 16:59

Instrument :

BNA_F

ClientSampleId :

W-2(0-2IN)

Tgt Ion:228 Resp: 24920

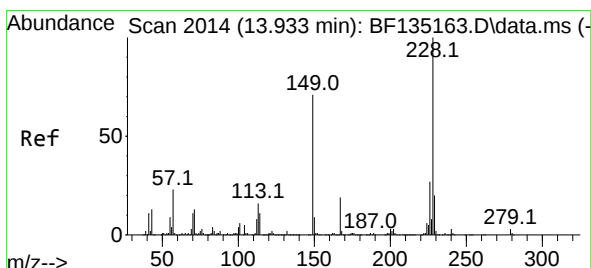
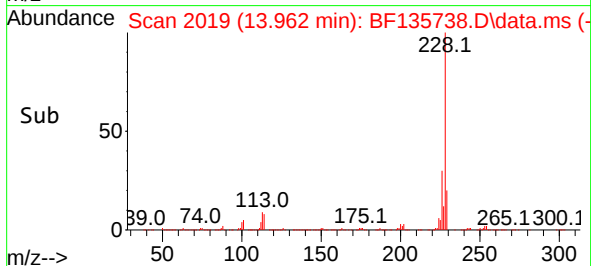
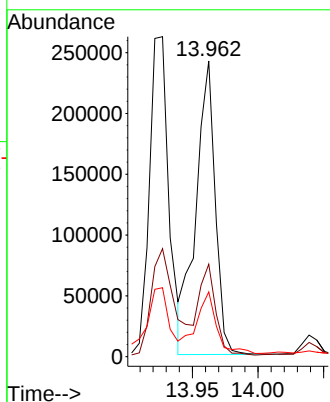
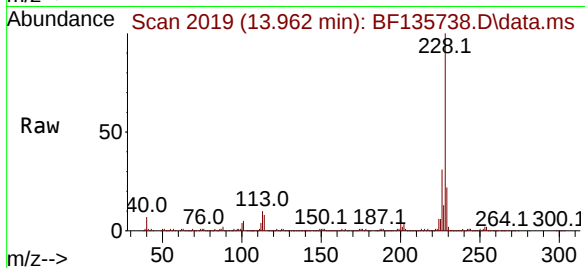
Ion	Ratio	Lower	Upper
228	100		
226	31.3	24.3	36.5
229	21.9	16.0	24.0

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/13/2023

Supervised By :mohammad ahmed 10/13/2023



#84

Bis(2-ethylhexyl)phthalate

Concen: 2.189 ng

RT: 13.904 min Scan# 2009

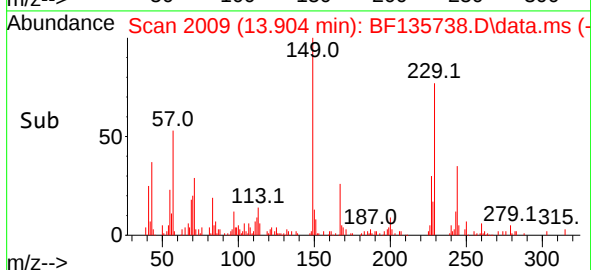
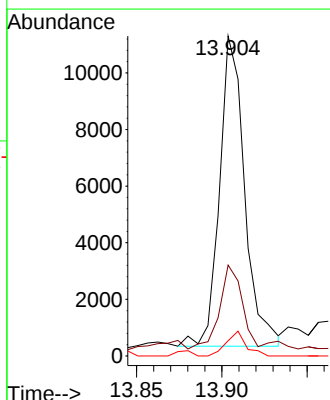
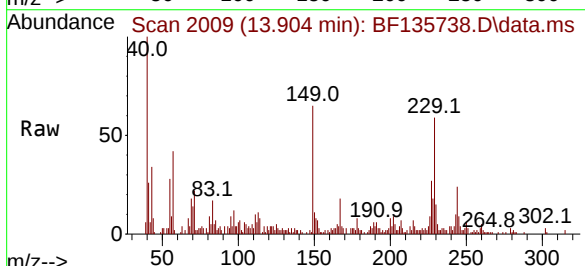
Delta R.T. -0.006 min

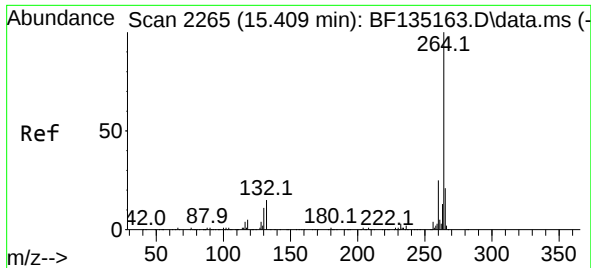
Lab File: BF135738.D

Acq: 12 Oct 2023 16:59

Tgt Ion:149 Resp: 11252

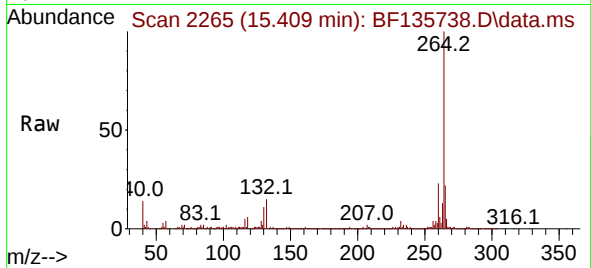
Ion	Ratio	Lower	Upper
149	100		
167	28.4	21.9	32.9
279	4.8	3.3	4.9





#86
Perylene-d12
Concen: 20.000 ng
RT: 15.409 min Scan# 21
Delta R.T. 0.006 min
Lab File: BF135738.D
Acq: 12 Oct 2023 16:59

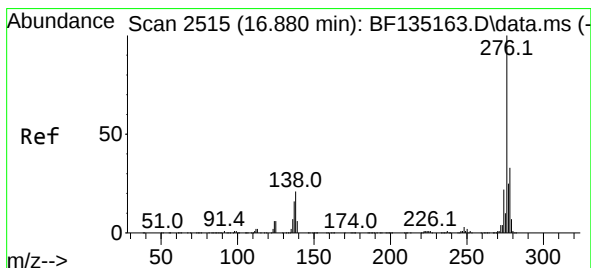
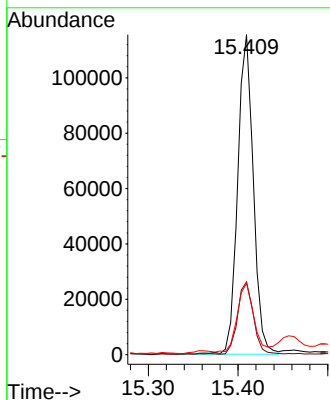
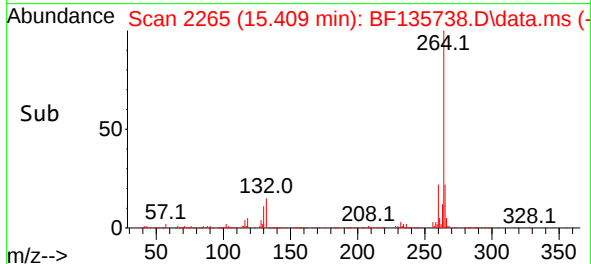
Instrument :
BNA_F
ClientSampleId :
W-2(0-2IN)



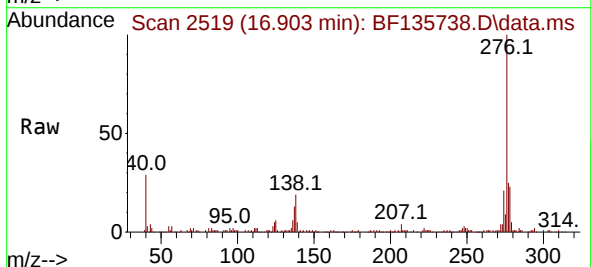
Tgt Ion:264 Resp: 139308
Ion Ratio Lower Upper
264 100
260 22.7 19.8 29.6
265 22.4 17.0 25.4

Manual Integrations
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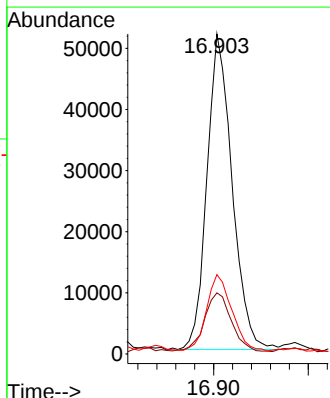
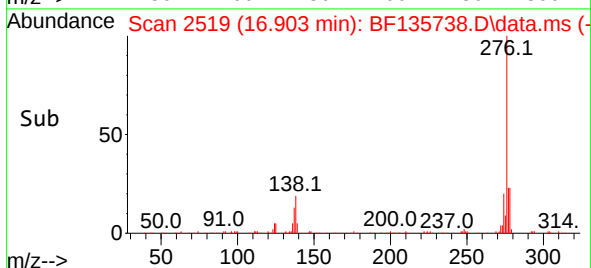
Reviewed By :Yogesh Patel 10/13/2023
Supervised By :mohammad ahmed 10/13/2023

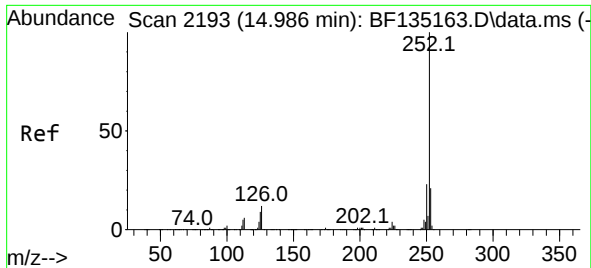


#87
Indeno(1,2,3-cd)pyrene
Concen: 10.436 ng
RT: 16.903 min Scan# 2519
Delta R.T. -0.000 min
Lab File: BF135738.D
Acq: 12 Oct 2023 16:59



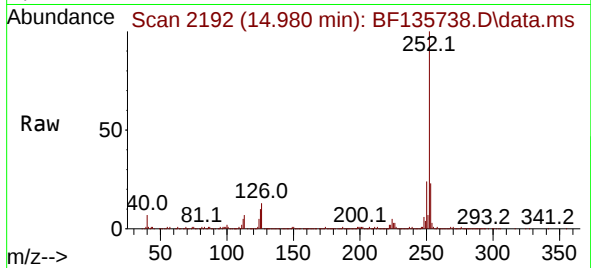
Tgt Ion:276 Resp: 95325
Ion Ratio Lower Upper
276 100
138 19.6 19.2 28.8
277 24.3 19.7 29.5





#88
Benzo(b)fluoranthene
Concen: 40.485 ng m
RT: 14.980 min Scan# 2193
Delta R.T. -0.000 min
Lab File: BF135738.D
Acq: 12 Oct 2023 16:59

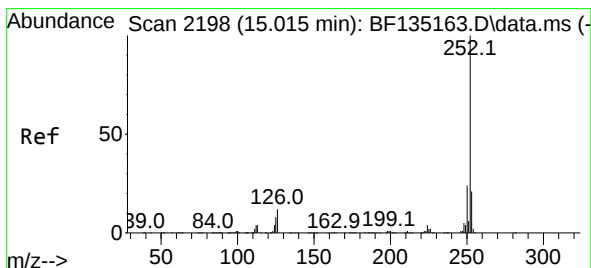
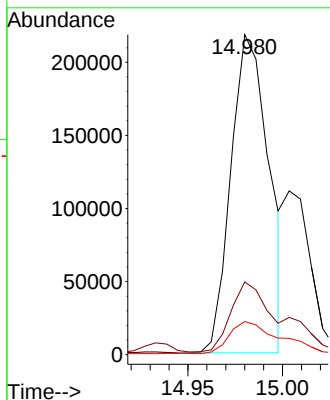
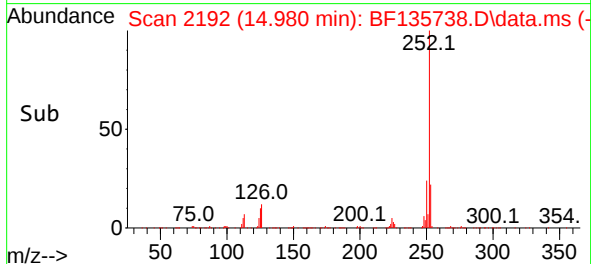
Instrument :
BNA_F
ClientSampleId :
W-2(0-2IN)



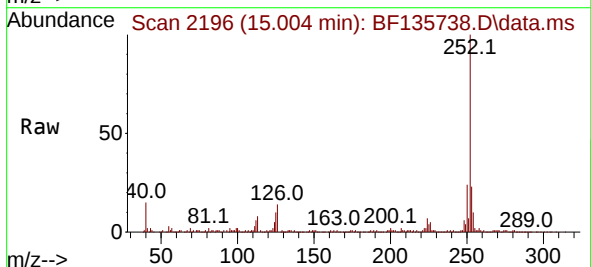
Tgt Ion:252 Resp: 30531
Ion Ratio Lower Upper
252 100
253 22.7 17.2 25.8
125 10.3 7.1 10.7

Manual Integrations
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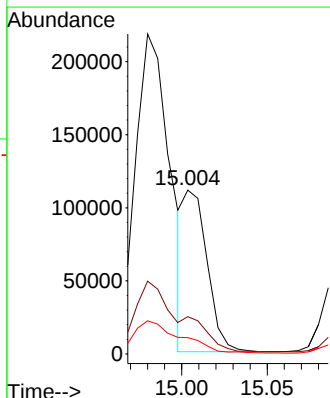
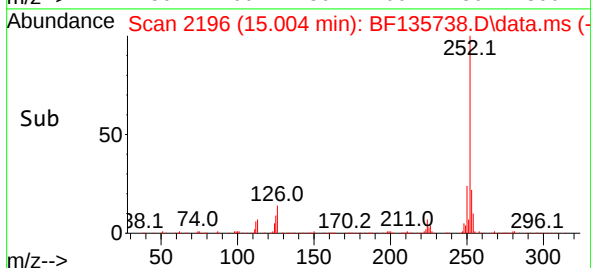
Reviewed By :Yogesh Patel 10/13/2023
Supervised By :mohammad ahmed 10/13/2023

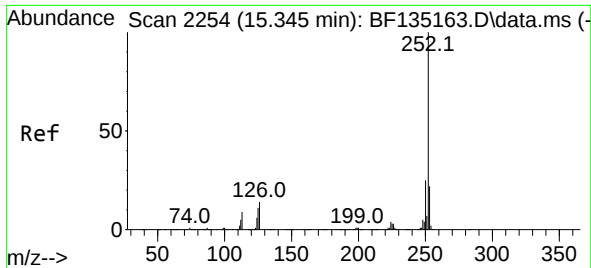


#89
Benzo(k)fluoranthene
Concen: 14.133 ng m
RT: 15.004 min Scan# 2196
Delta R.T. -0.000 min
Lab File: BF135738.D
Acq: 12 Oct 2023 16:59



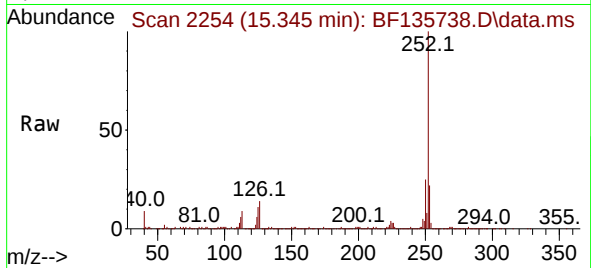
Tgt Ion:252 Resp: 105281
Ion Ratio Lower Upper
252 100
253 22.7 17.4 26.0
125 9.9 7.2 10.8





#90
Benzo(a)pyrene
Concen: 29.320 ng
RT: 15.345 min Scan# 21085
Delta R.T. -0.000 min
Lab File: BF135738.D
Acq: 12 Oct 2023 16:59

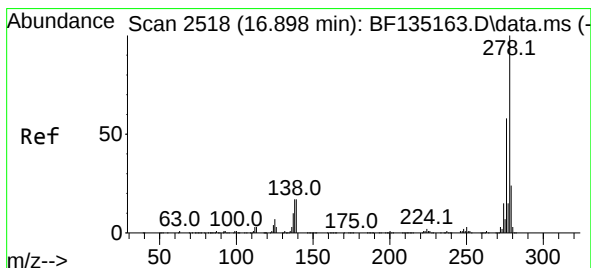
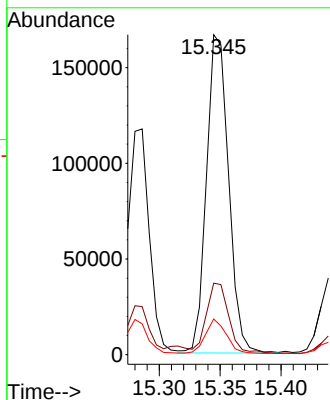
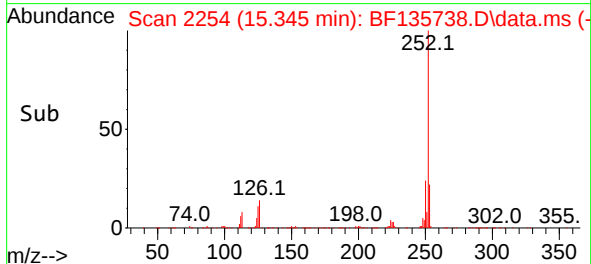
Instrument :
BNA_F
ClientSampleId :
W-2(0-2IN)



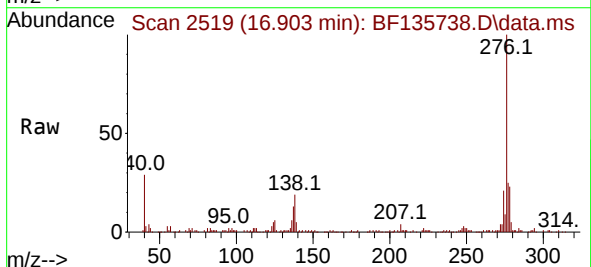
Tgt Ion:252 Resp: 21085
Ion Ratio Lower Upper
252 100
253 22.4 17.5 26.3
125 11.1 9.2 13.8

Manual Integrations
APPROVED

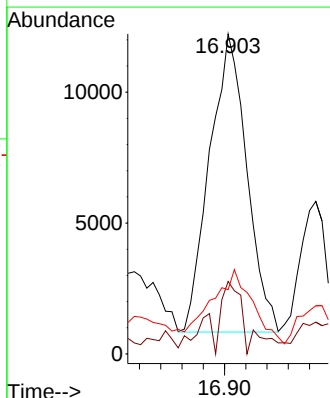
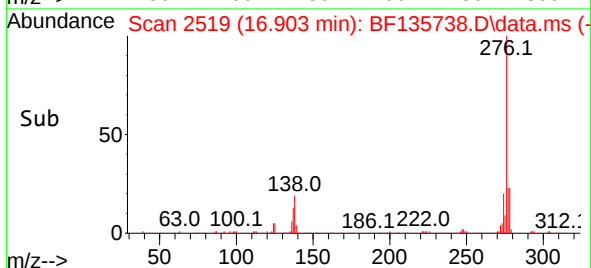
Reviewed By :Yogesh Patel 10/13/2023
Supervised By :mohammad ahmed 10/13/2023

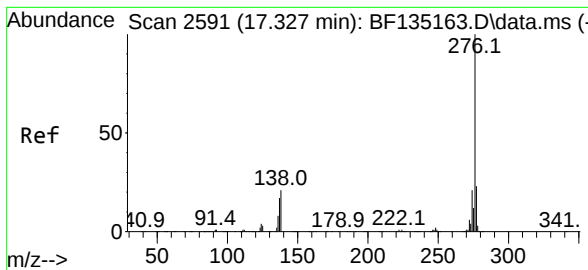


#91
Dibenzo(a,h)anthracene
Concen: 3.697 ng m
RT: 16.903 min Scan# 2519
Delta R.T. -0.006 min
Lab File: BF135738.D
Acq: 12 Oct 2023 16:59



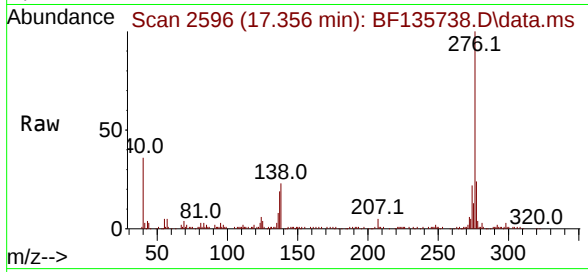
Tgt Ion:278 Resp: 27632
Ion Ratio Lower Upper
278 100
139 22.6 13.4 20.0#
279 20.1 19.0 28.6





#92
Benzo(g,h,i)perylene
Concen: 11.746 ng
RT: 17.356 min Scan# 2596
Delta R.T. 0.006 min
Lab File: BF135738.D
Acq: 12 Oct 2023 16:59

Instrument :
BNA_F
ClientSampleId :
W-2(0-2IN)



Tgt Ion:276 Resp: 9168
Ion Ratio Lower Upper
276 100
277 24.3 18.8 28.2
138 22.7 16.9 25.3

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/13/2023
Supervised By :mohammad ahmed 10/13/2023

