

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020524\
 Data File : BF137282.D
 Acq On : 05 Feb 2024 18:20
 Operator : CG\JU
 Sample : P1066-01
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 WC-N-COMP

Manual Integrations
 APPROVED

Reviewed By :Jagrut Upadhyay 02/06/2024
 Supervised By :mohammad ahmed 02/07/2024

Quant Time: Feb 06 01:16:10 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF013024.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jan 31 04:56:22 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.793	152	58681	20.000	ng	0.00
21) Naphthalene-d8	8.069	136	211091	20.000	ng	0.00
39) Acenaphthene-d10	9.822	164	107411	20.000	ng	0.00
64) Phenanthrene-d10	11.316	188	180163	20.000	ng	0.00
76) Chrysene-d12	13.974	240	121612	20.000	ng	0.00
86) Perylene-d12	15.457	264	107081	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.434	112	408009	114.730	ng	0.02
7) Phenol-d6	6.428	99	568352	111.988	ng	0.00
23) Nitrobenzene-d5	7.351	82	386867	82.053	ng	0.00
42) 2,4,6-Tribromophenol	10.616	330	103625	85.425	ng	0.00
45) 2-Fluorobiphenyl	9.151	172	625966	80.112	ng	0.00
79) Terphenyl-d14	12.916	244	596409	66.670	ng	0.00
Target Compounds					Qvalue	
31) Naphthalene	8.092	128	139092	12.188	ng	99
37) 2-Methylnaphthalene	8.781	142	33370	4.362	ng	99
38) 1-Methylnaphthalene	8.881	142	20436	2.876	ng	97
52) Acenaphthene	9.857	154	72184	12.130	ng	98
55) Dibenzofuran	10.028	168	92000	9.718	ng	97
58) Fluorene	10.375	166	95122	12.816	ng	100
71) Phenanthrene	11.345	178	842191	89.293	ng	99
72) Anthracene	11.392	178	246675	25.092	ng	99
73) Carbazole	11.551	167	103860	12.642	ng	98
75) Fluoranthene	12.539	202	868581	88.007	ng	98
78) Pyrene	12.769	202	690734	59.103	ng	99
81) Benzo(a)anthracene	13.963	228	321615	37.342	ng	100
83) Chrysene	13.998	228	245500	28.994	ng	96
87) Indeno(1,2,3-cd)pyrene	16.945	276	81736	10.865	ng	97
88) Benzo(b)fluoranthene	15.021	252	258948m	39.322	ng	
89) Benzo(k)fluoranthene	15.045	252	88511m	12.705	ng	
90) Benzo(a)pyrene	15.392	252	179935	29.035	ng	99
91) Dibenzo(a,h)anthracene	16.962	278	20413m	3.386	ng	
92) Benzo(g,h,i)perylene	17.398	276	77449	13.091	ng	# 92

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

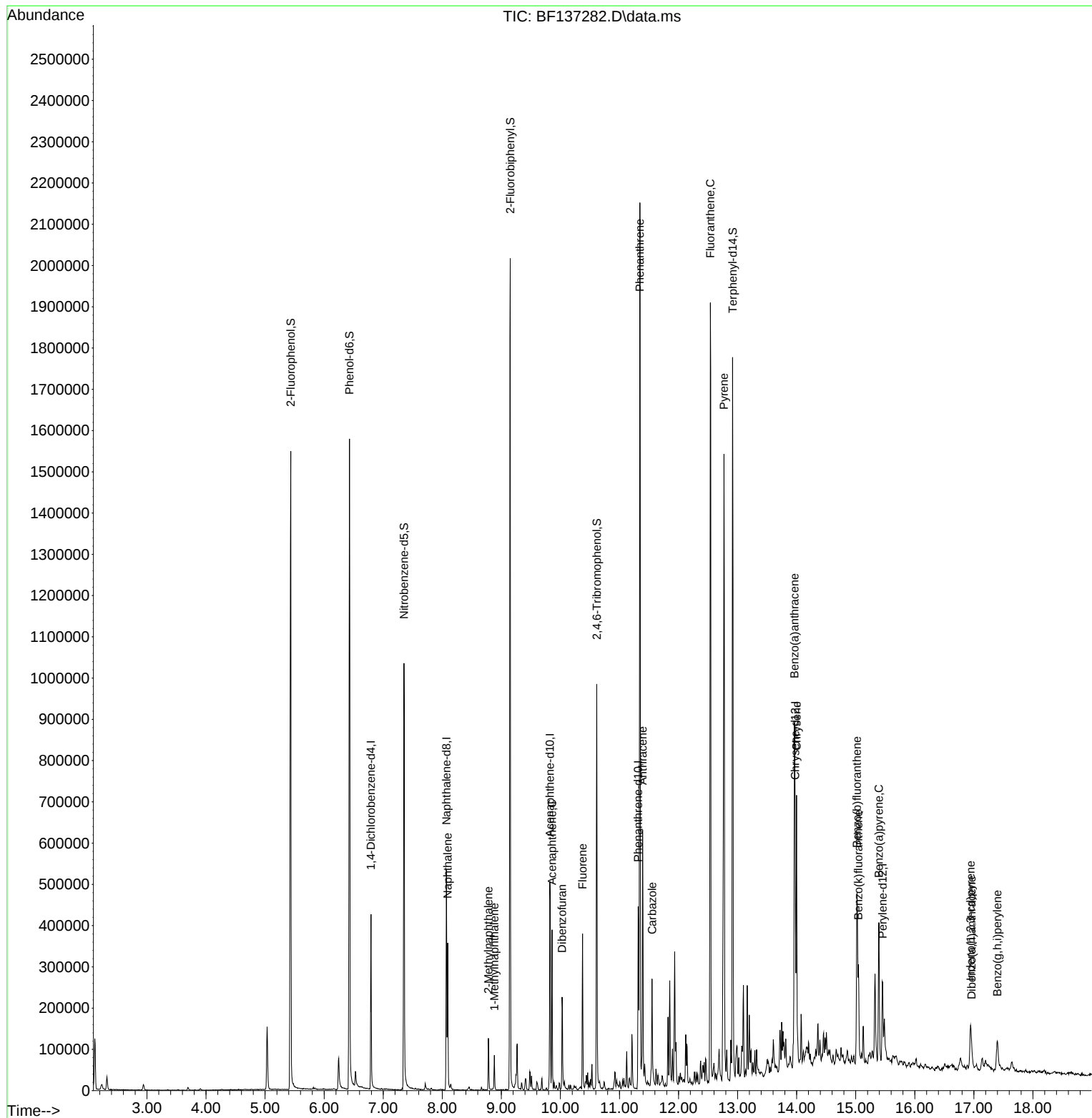
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020524\
Data File : BF137282.D
Acq On : 05 Feb 2024 18:20
Operator : CG\JU
Sample : P1066-01
Misc :
ALS Vial : 14 Sample Multiplier: 1

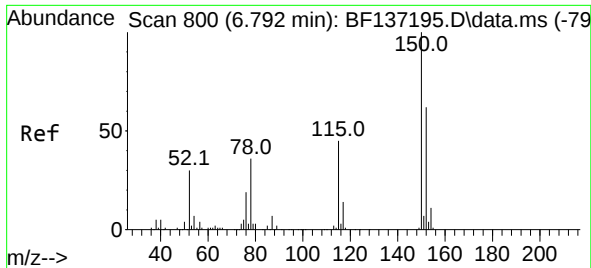
Instrument :
BNA_F
ClientSampleId :
WC-N-COMP

Quant Time: Feb 06 01:16:10 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF013024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 31 04:56:22 2024
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 02/06/2024
Supervised By :mohammad ahmed 02/07/2024





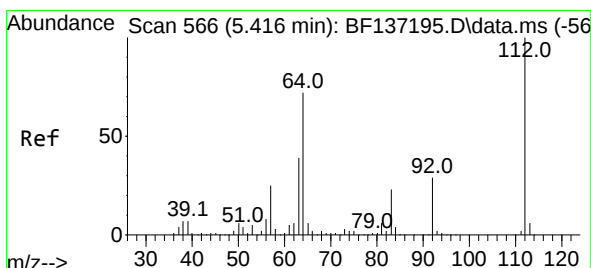
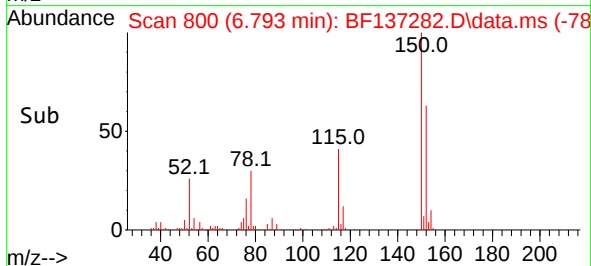
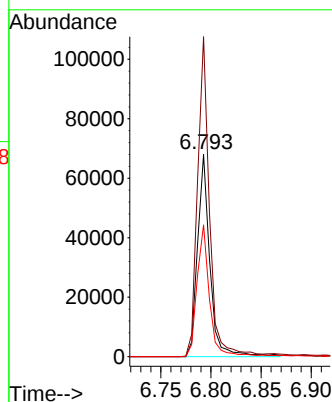
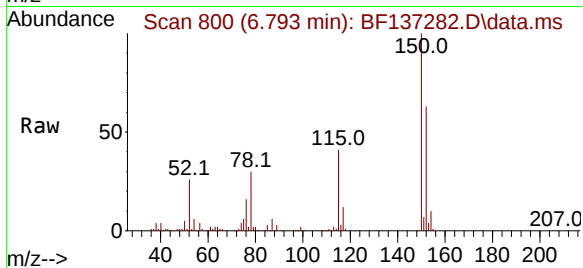
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.793 min Scan# 800
Delta R.T. 0.001 min
Lab File: BF137282.D
Acq: 05 Feb 2024 18:20

Instrument :
BNA_F
ClientSampleId :
WC-N-COMP

Tgt Ion:152 Resp: 5868
Ion Ratio Lower Upper
152 100
150 158.2 129.8 194.8
115 65.2 58.5 87.7

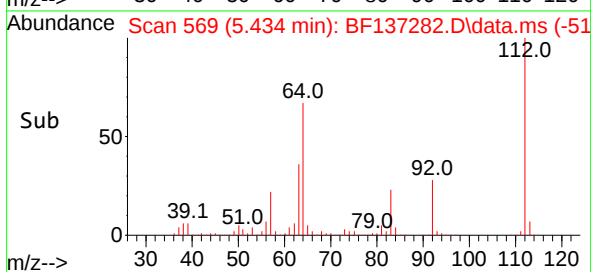
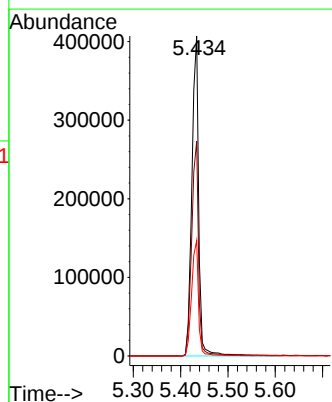
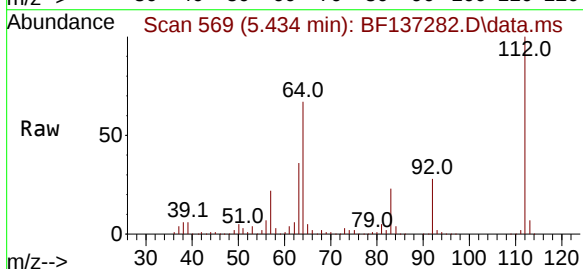
Manual Integrations
APPROVED

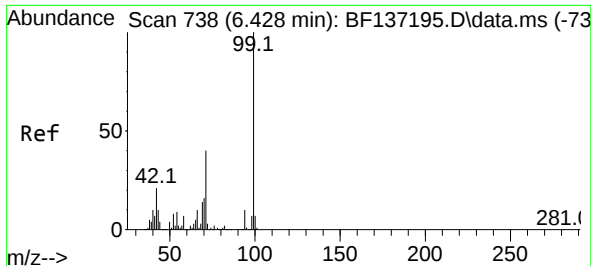
Reviewed By :Jagrut Upadhyay 02/06/2024
Supervised By :mohammad ahmed 02/07/2024



#5
2-Fluorophenol
Concen: 114.730 ng
RT: 5.434 min Scan# 569
Delta R.T. 0.018 min
Lab File: BF137282.D
Acq: 05 Feb 2024 18:20

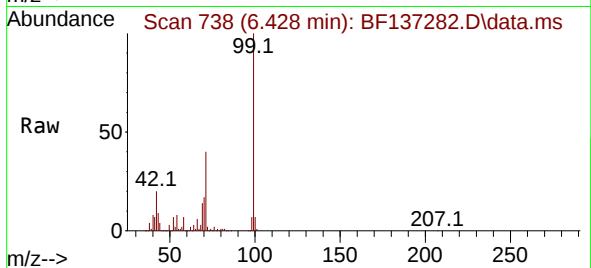
Tgt Ion:112 Resp: 408009
Ion Ratio Lower Upper
112 100
64 67.2 57.8 86.6
63 36.1 31.4 47.0





#7
Phenol-d6
Concen: 111.988 ng
RT: 6.428 min Scan# 71
Delta R.T. 0.000 min
Lab File: BF137282.D
Acq: 05 Feb 2024 18:20

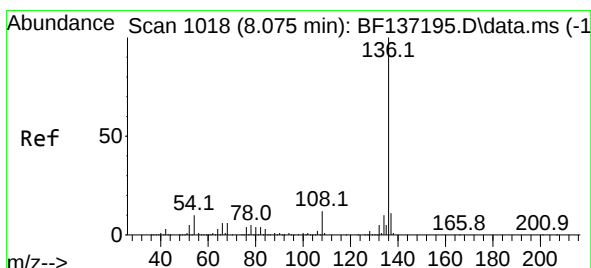
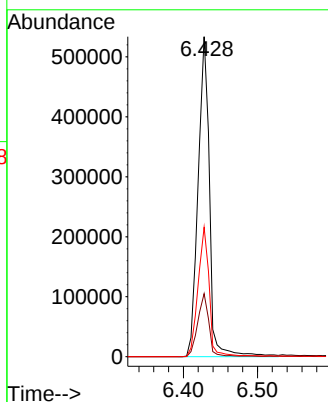
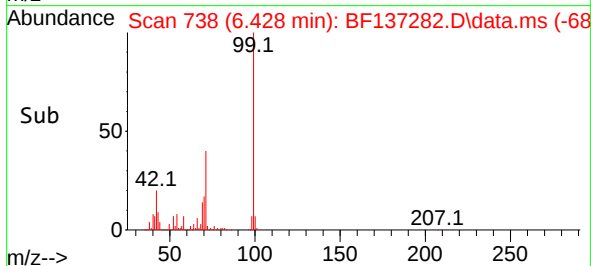
Instrument :
BNA_F
ClientSampleId :
WC-N-COMP



Tgt Ion: 99 Resp: 568352
Ion Ratio Lower Upper
99 100
42 19.7 16.4 24.6
71 40.5 32.4 48.6

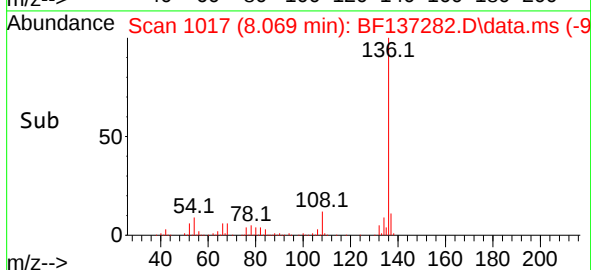
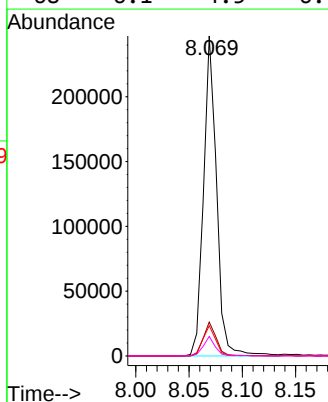
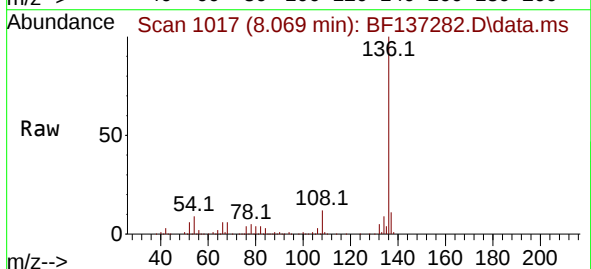
Manual Integrations
APPROVED

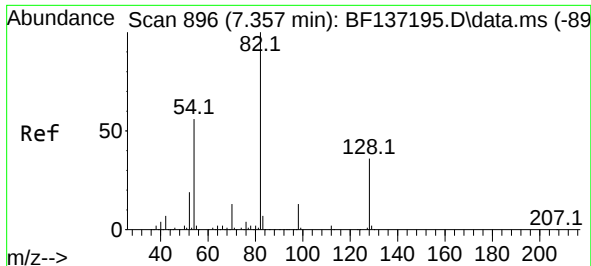
Reviewed By :Jagrut Upadhyay 02/06/2024
Supervised By :mohammad ahmed 02/07/2024



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.069 min Scan# 1017
Delta R.T. -0.006 min
Lab File: BF137282.D
Acq: 05 Feb 2024 18:20

Tgt Ion:136 Resp: 211091
Ion Ratio Lower Upper
136 100
137 10.6 8.9 13.3
54 9.5 7.8 11.8
68 6.1 4.5 6.7





#23

Nitrobenzene-d5

Concen: 82.053 ng

RT: 7.351 min Scan# 896

Delta R.T. -0.006 min

Lab File: BF137282.D

Acq: 05 Feb 2024 18:20

Instrument :

BNA_F

ClientSampleId :

WC-N-COMP

Tgt Ion: 82 Resp: 38686

Ion Ratio Lower Upper

82 100

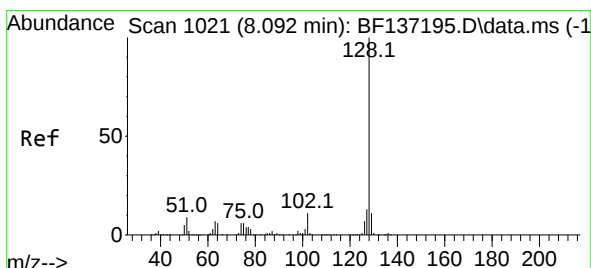
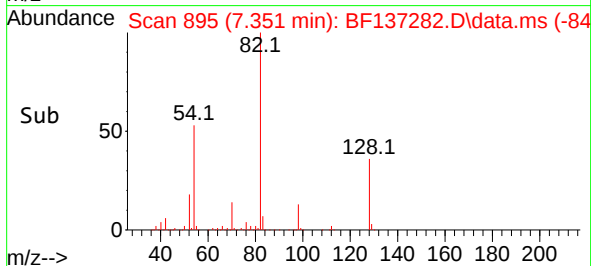
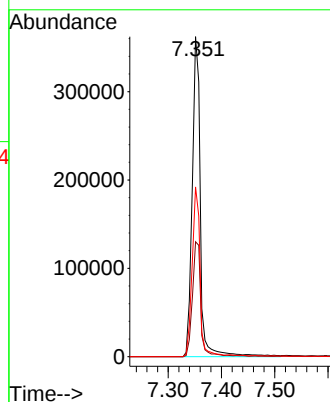
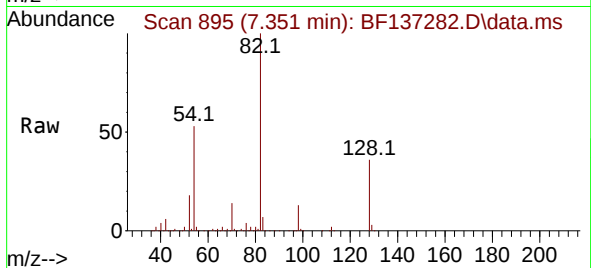
128 35.9 29.1 43.7

54 53.0 45.0 67.6

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 02/06/2024
Supervised By :mohammad ahmed 02/07/2024



#31

Naphthalene

Concen: 12.188 ng

RT: 8.092 min Scan# 1021

Delta R.T. 0.000 min

Lab File: BF137282.D

Acq: 05 Feb 2024 18:20

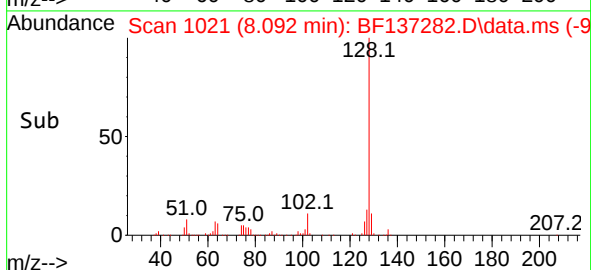
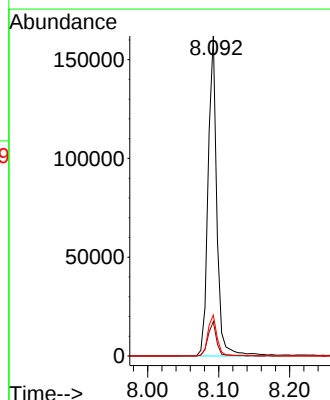
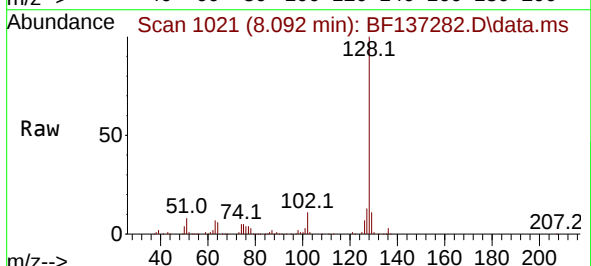
Tgt Ion:128 Resp: 139092

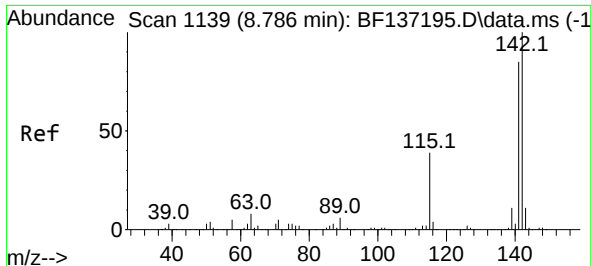
Ion Ratio Lower Upper

128 100

129 10.8 8.5 12.7

127 12.8 10.5 15.7





#37

2-Methylnaphthalene

Concen: 4.362 ng

RT: 8.781 min Scan# 1139

Delta R.T. -0.006 min

Lab File: BF137282.D

Acq: 05 Feb 2024 18:20

Instrument :

BNA_F

ClientSampleId :

WC-N-COMP

Tgt Ion:142 Resp: 33370

Ion Ratio Lower Upper

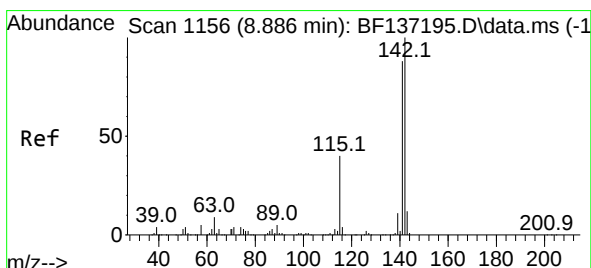
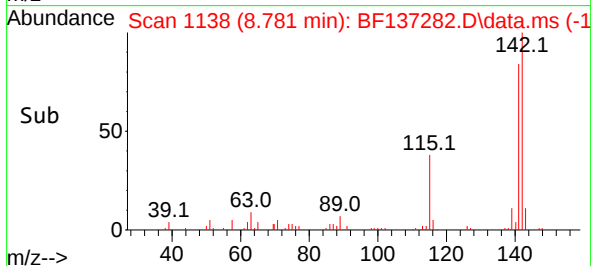
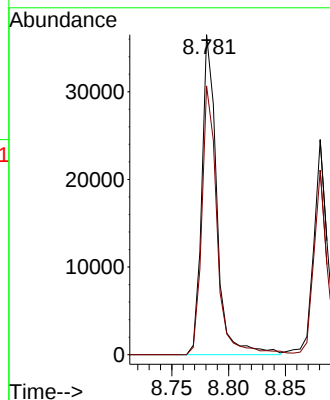
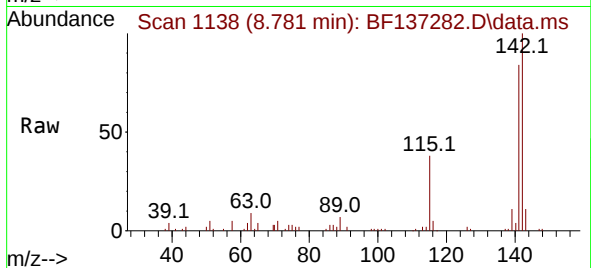
142 100

141 84.0 67.8 101.8

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 02/06/2024
Supervised By :mohammad ahmed 02/07/2024



#38

1-Methylnaphthalene

Concen: 2.876 ng

RT: 8.881 min Scan# 1155

Delta R.T. -0.006 min

Lab File: BF137282.D

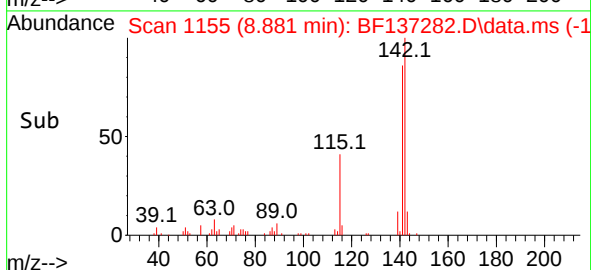
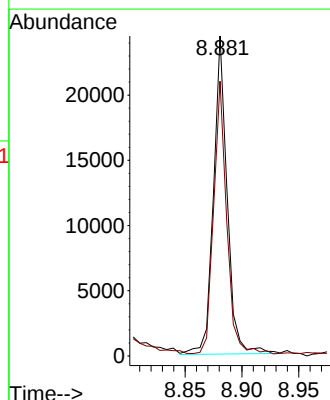
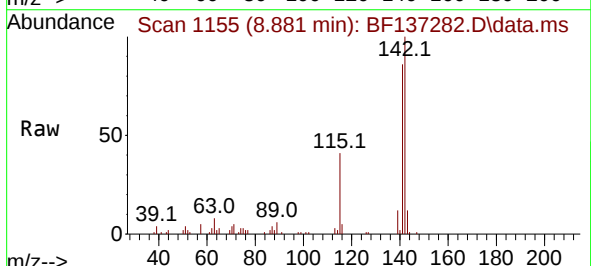
Acq: 05 Feb 2024 18:20

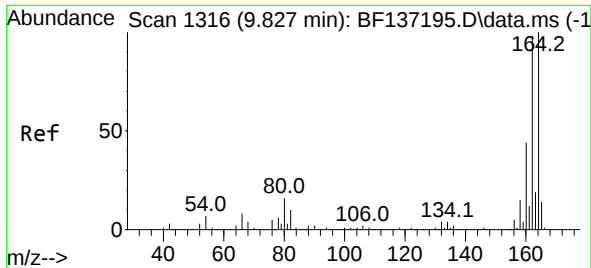
Tgt Ion:142 Resp: 20436

Ion Ratio Lower Upper

142 100

141 85.8 70.6 105.8





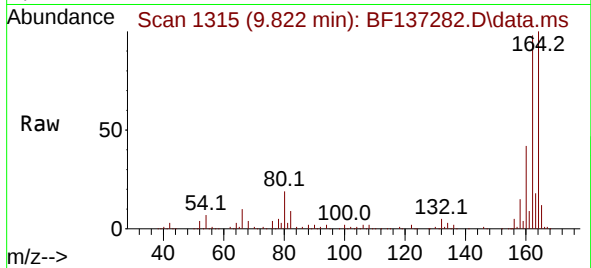
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.822 min Scan# 11
Delta R.T. -0.005 min
Lab File: BF137282.D
Acq: 05 Feb 2024 18:20

Instrument :

BNA_F

ClientSampleId :

WC-N-COMP

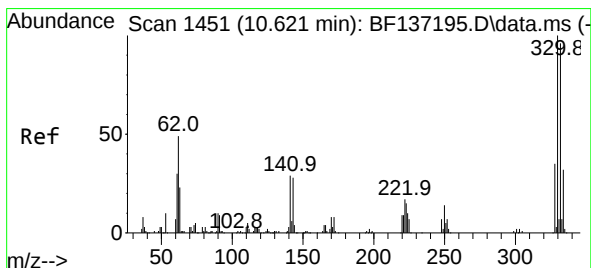
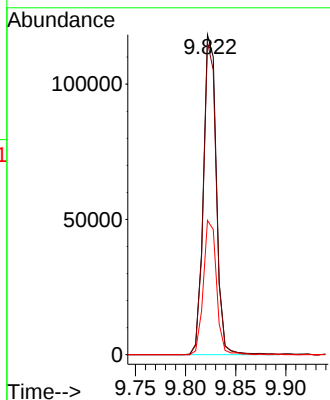
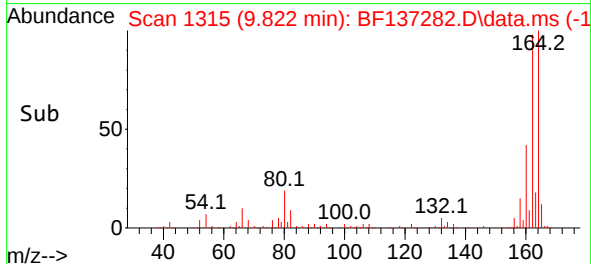


Tgt Ion:164 Resp: 10741
Ion Ratio Lower Upper
164 100
162 97.7 78.3 117.5
160 42.0 35.4 53.2

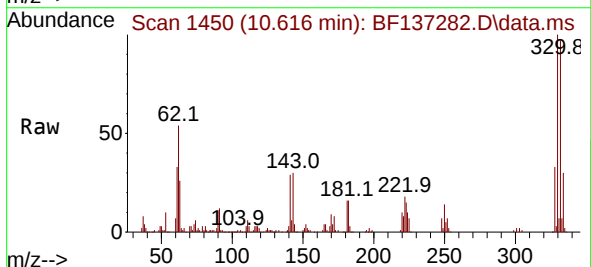
Manual Integrations

APPROVED

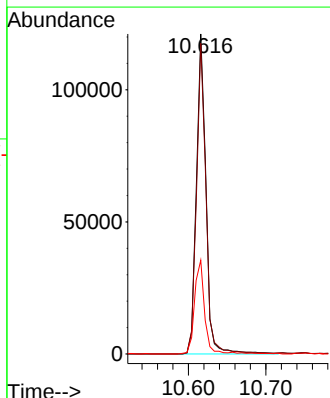
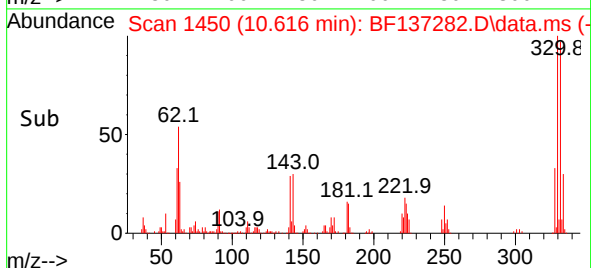
Reviewed By :Jagrut Upadhyay 02/06/2024
Supervised By :mohammad ahmed 02/07/2024

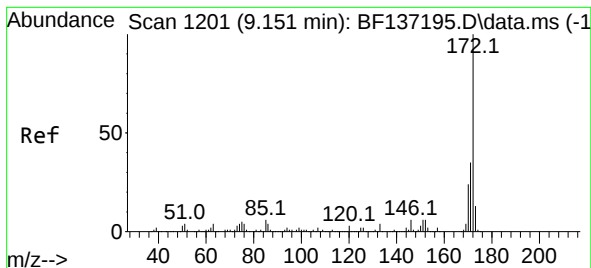


#42
2,4,6-Tribromophenol
Concen: 85.425 ng
RT: 10.616 min Scan# 1450
Delta R.T. -0.006 min
Lab File: BF137282.D
Acq: 05 Feb 2024 18:20



Tgt Ion:330 Resp: 103625
Ion Ratio Lower Upper
330 100
332 96.5 77.3 115.9
141 30.2 25.2 37.8





#45

2-Fluorobiphenyl

Concen: 80.112 ng

RT: 9.151 min Scan# 1201

Delta R.T. 0.000 min

Lab File: BF137282.D

Acq: 05 Feb 2024 18:20

Instrument :

BNA_F

ClientSampleId :

WC-N-COMP

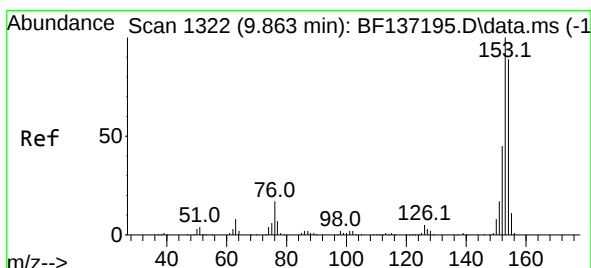
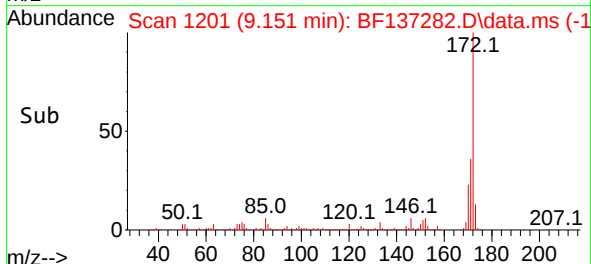
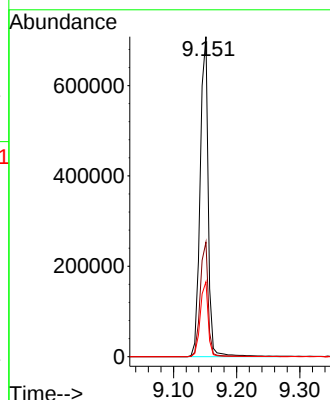
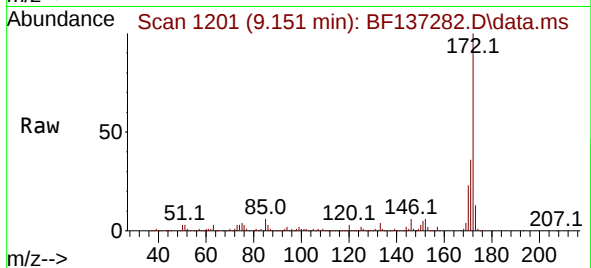
Tgt Ion:172 Resp: 62596

Ion	Ratio	Lower	Upper
172	100		
171	35.8	28.3	42.5
170	23.4	19.1	28.7

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 02/06/2024
Supervised By :mohammad ahmed 02/07/2024



#52

Acenaphthene

Concen: 12.130 ng

RT: 9.857 min Scan# 1321

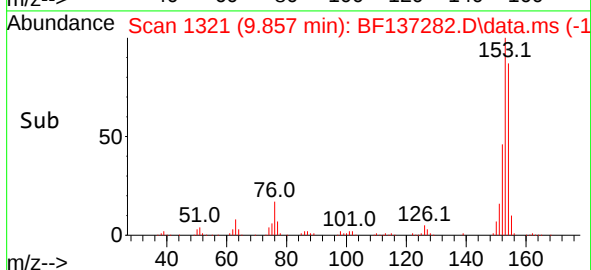
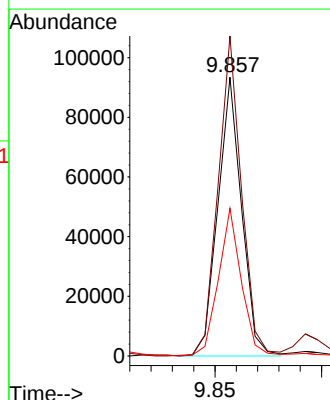
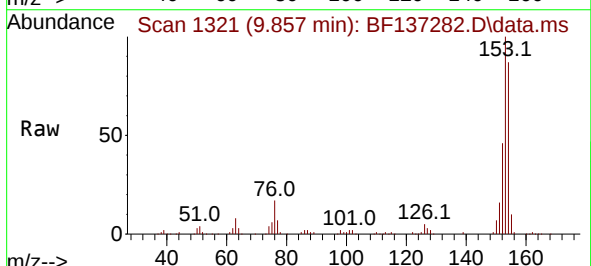
Delta R.T. -0.006 min

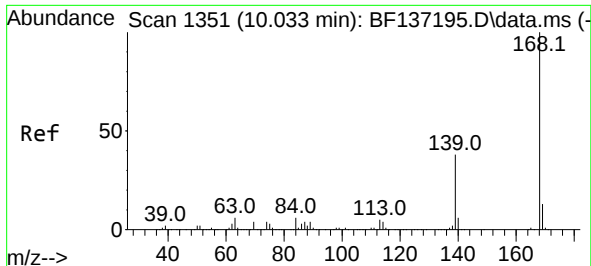
Lab File: BF137282.D

Acq: 05 Feb 2024 18:20

Tgt Ion:154 Resp: 72184

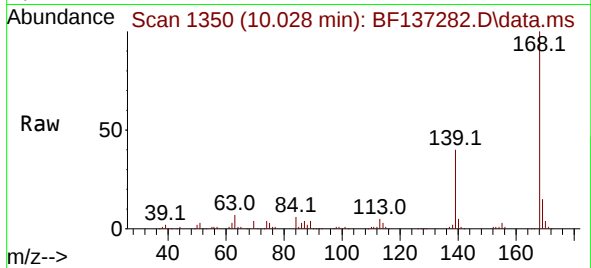
Ion	Ratio	Lower	Upper
154	100		
153	114.8	90.2	135.4
152	53.0	40.6	60.8





#55
Dibenzenofuran
Concen: 9.718 ng
RT: 10.028 min Scan# 11
Delta R.T. -0.005 min
Lab File: BF137282.D
Acq: 05 Feb 2024 18:20

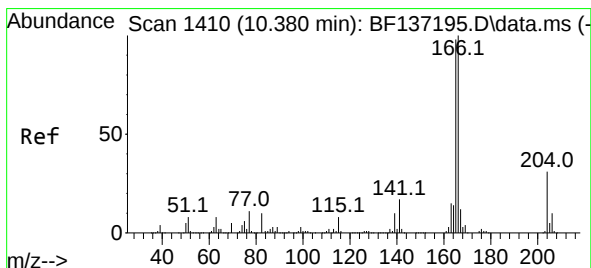
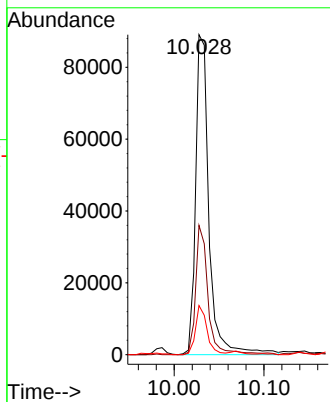
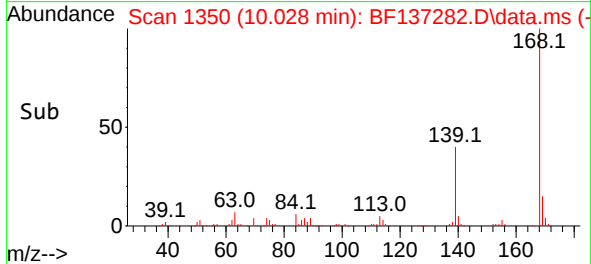
Instrument :
BNA_F
ClientSampleId :
WC-N-COMP



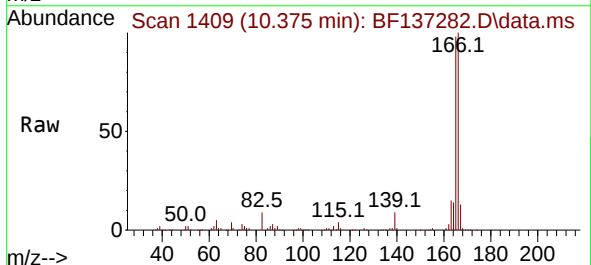
Tgt Ion:168 Resp: 92000
Ion Ratio Lower Upper
168 100
139 40.4 31.1 46.7
169 15.4 10.6 16.0

Manual Integrations
APPROVED

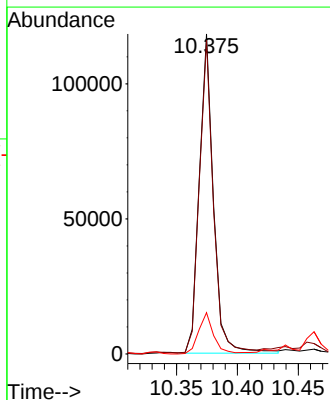
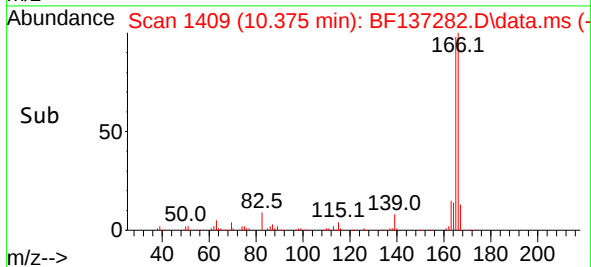
Reviewed By :Jagrut Upadhyay 02/06/2024
Supervised By :mohammad ahmed 02/07/2024

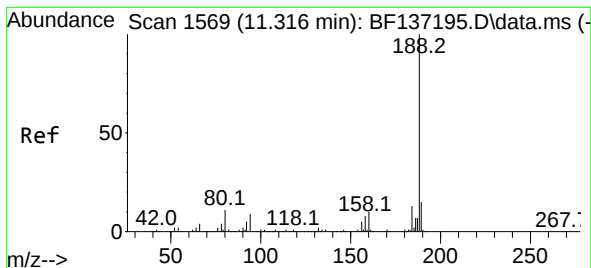


#58
Fluorene
Concen: 12.816 ng
RT: 10.375 min Scan# 1409
Delta R.T. -0.006 min
Lab File: BF137282.D
Acq: 05 Feb 2024 18:20



Tgt Ion:166 Resp: 95122
Ion Ratio Lower Upper
166 100
165 98.0 78.5 117.7
167 12.9 10.0 15.0





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.316 min Scan# 1569
Delta R.T. -0.000 min
Lab File: BF137282.D
Acq: 05 Feb 2024 18:20

Instrument :

BNA_F

ClientSampleId :

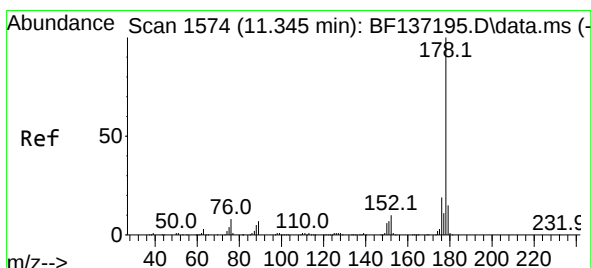
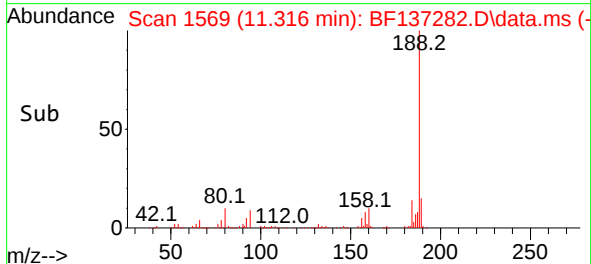
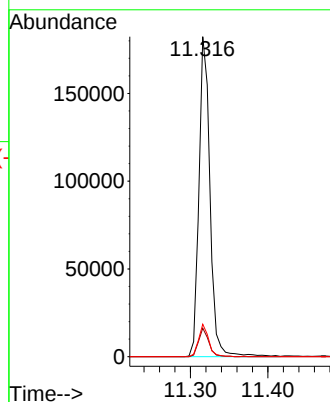
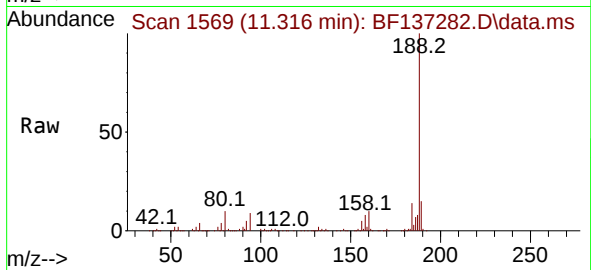
WC-N-COMP

Tgt Ion:188 Resp: 18016
Ion Ratio Lower Upper
188 100
94 8.9 7.0 10.4
80 10.1 8.8 13.2

Manual Integrations

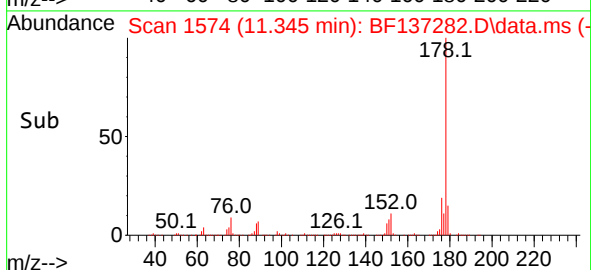
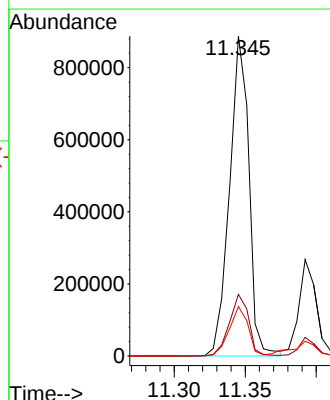
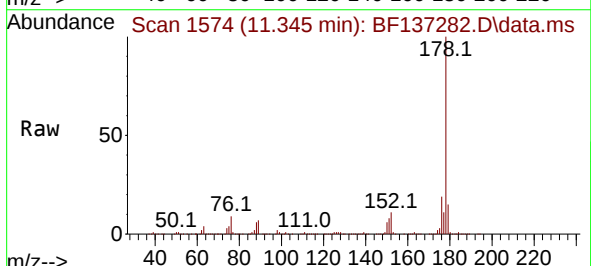
APPROVED

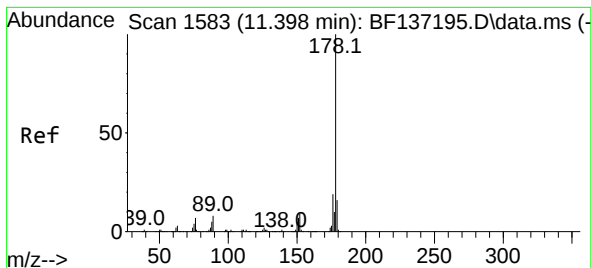
Reviewed By :Jagrut Upadhyay 02/06/2024
Supervised By :mohammad ahmed 02/07/2024



#71
Phenanthrene
Concen: 89.293 ng
RT: 11.345 min Scan# 1574
Delta R.T. 0.000 min
Lab File: BF137282.D
Acq: 05 Feb 2024 18:20

Tgt Ion:178 Resp: 842191
Ion Ratio Lower Upper
178 100
176 19.3 15.1 22.7
179 15.4 12.1 18.1





#72

Anthracene

Concen: 25.092 ng

RT: 11.392 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF137282.D

Acq: 05 Feb 2024 18:20

Instrument :

BNA_F

ClientSampleId :

WC-N-COMP

Tgt Ion:178 Resp: 24667

Ion Ratio Lower Upper

178 100

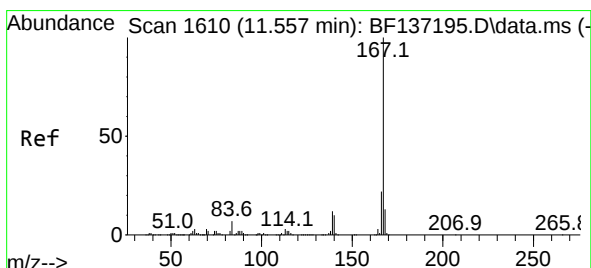
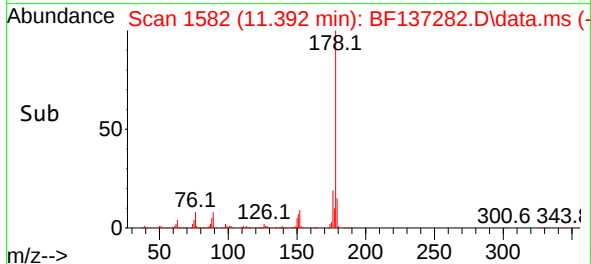
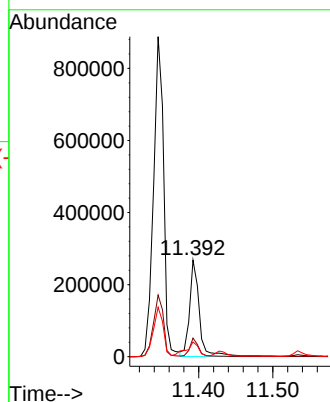
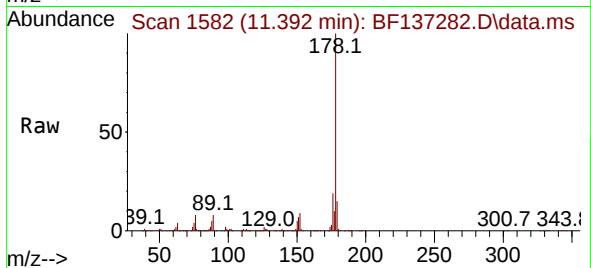
176 19.2 15.3 22.9

179 15.2 12.7 19.1

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 02/06/2024
Supervised By :mohammad ahmed 02/07/2024



#73

Carbazole

Concen: 12.642 ng

RT: 11.551 min Scan# 1609

Delta R.T. -0.006 min

Lab File: BF137282.D

Acq: 05 Feb 2024 18:20

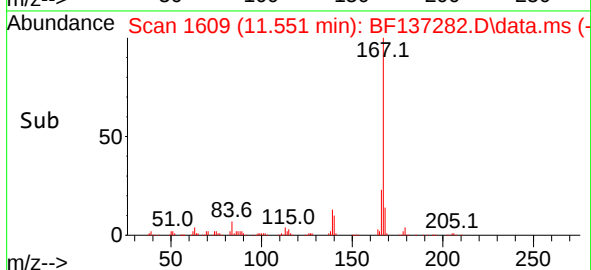
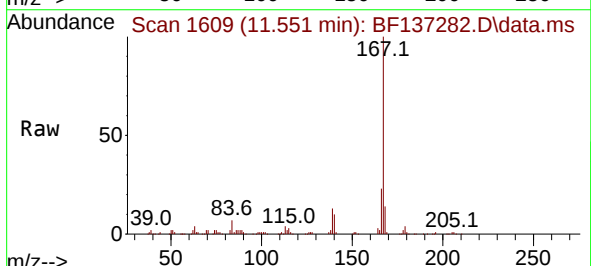
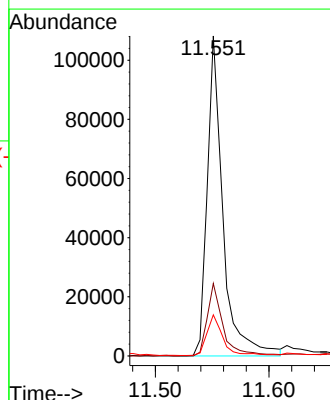
Tgt Ion:167 Resp: 103860

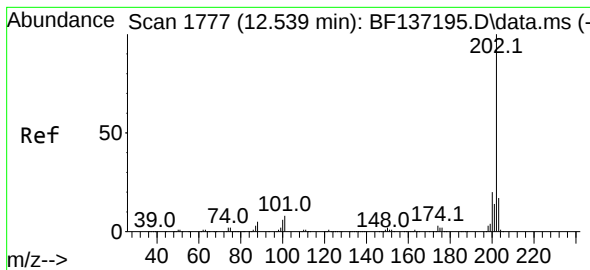
Ion Ratio Lower Upper

167 100

166 22.6 17.6 26.4

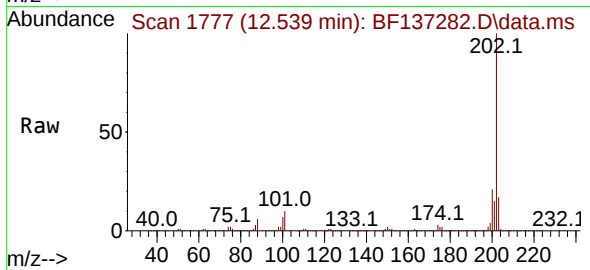
139 12.8 9.7 14.5





#75
Fluoranthene
Concen: 88.007 ng
RT: 12.539 min Scan# 1777
Delta R.T. 0.000 min
Lab File: BF137282.D
Acq: 05 Feb 2024 18:20

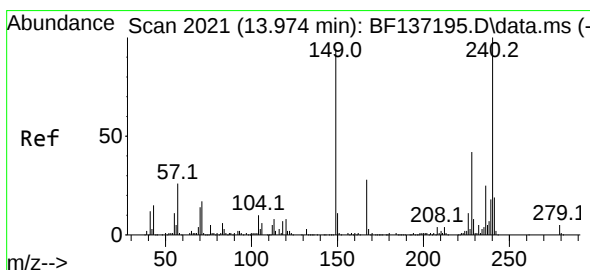
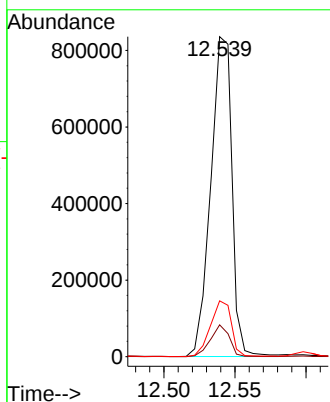
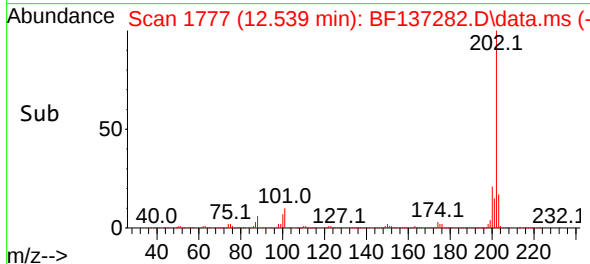
Instrument :
BNA_F
ClientSampleId :
WC-N-COMP



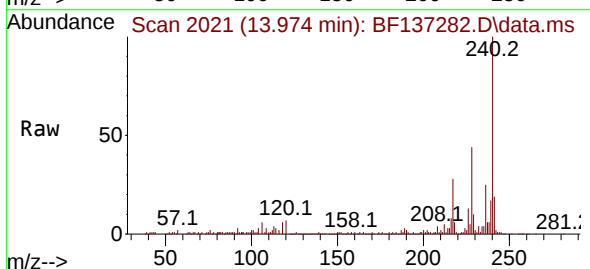
Tgt Ion:202 Resp: 86858
Ion Ratio Lower Upper
202 100
101 10.0 0.0 28.4
203 17.4 0.0 37.3

Manual Integrations
APPROVED

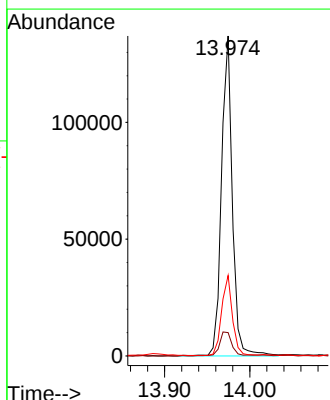
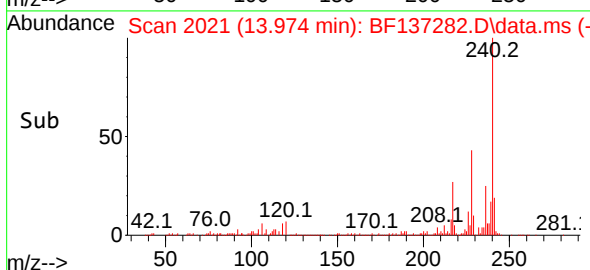
Reviewed By :Jagrut Upadhyay 02/06/2024
Supervised By :mohammad ahmed 02/07/2024

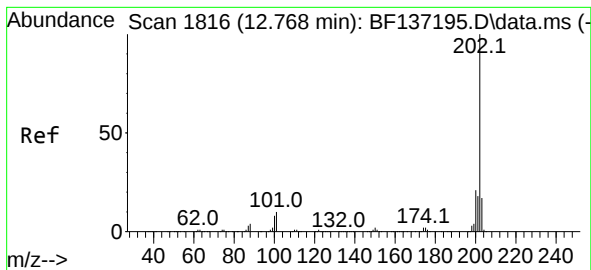


#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.974 min Scan# 2021
Delta R.T. 0.000 min
Lab File: BF137282.D
Acq: 05 Feb 2024 18:20



Tgt Ion:240 Resp: 121612
Ion Ratio Lower Upper
240 100
120 7.3 6.3 9.5
236 25.1 20.3 30.5





#78

Pyrene

Concen: 59.103 ng

RT: 12.769 min Scan# 1816

Delta R.T. 0.000 min

Lab File: BF137282.D

Acq: 05 Feb 2024 18:20

Instrument :

BNA_F

ClientSampleId :

WC-N-COMP

Tgt Ion:202 Resp: 690734

Ion Ratio Lower Upper

202 100

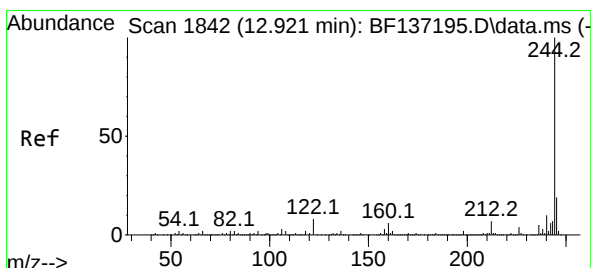
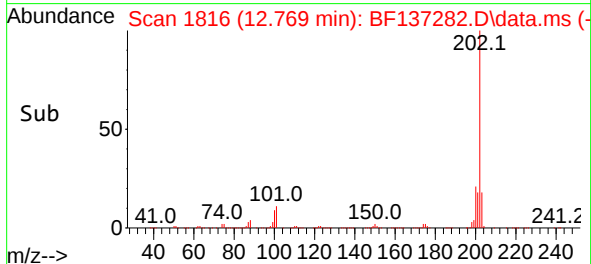
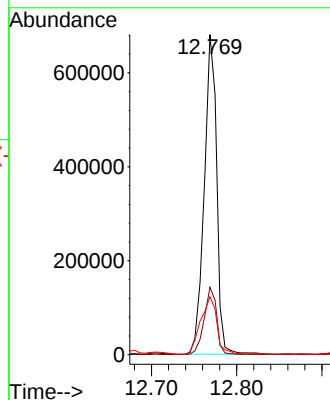
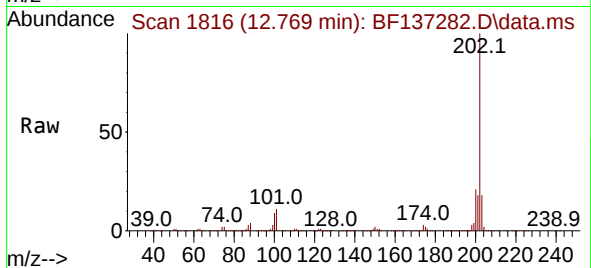
200 21.1 16.5 24.7

203 18.1 13.8 20.6

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 02/06/2024
Supervised By :mohammad ahmed 02/07/2024



#79

Terphenyl-d14

Concen: 66.670 ng

RT: 12.916 min Scan# 1841

Delta R.T. -0.006 min

Lab File: BF137282.D

Acq: 05 Feb 2024 18:20

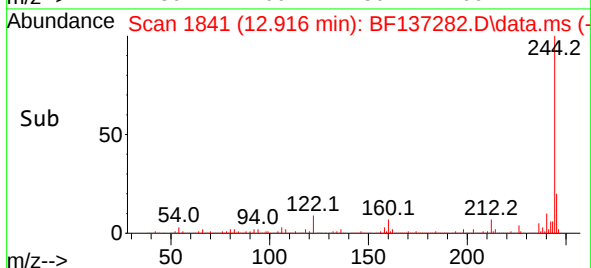
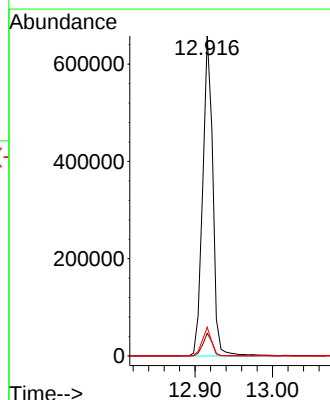
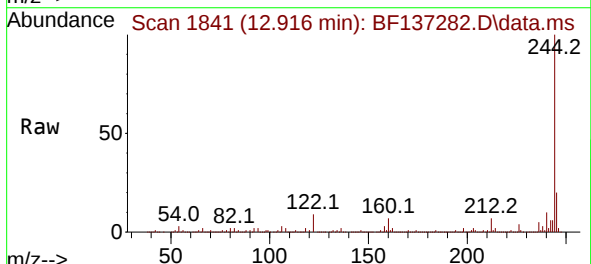
Tgt Ion:244 Resp: 596409

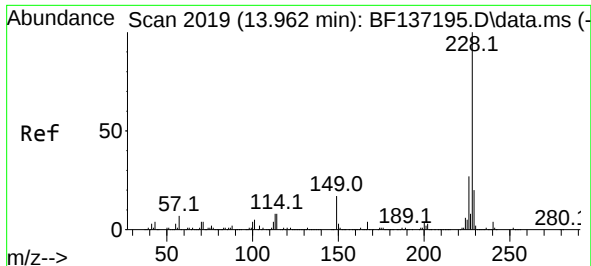
Ion Ratio Lower Upper

244 100

212 7.1 5.5 8.3

122 9.0 6.2 9.4





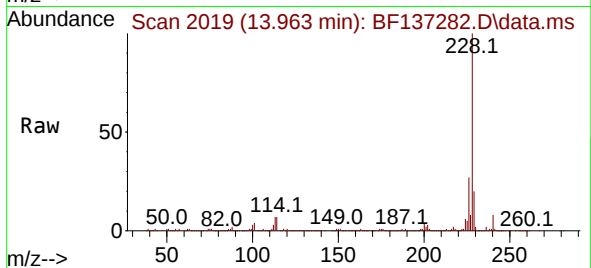
#81
Benzo(a)anthracene
Concen: 37.342 ng
RT: 13.963 min Scan# 2019
Delta R.T. 0.000 min
Lab File: BF137282.D
Acq: 05 Feb 2024 18:20

Instrument :

BNA_F

ClientSampleId :

WC-N-COMP

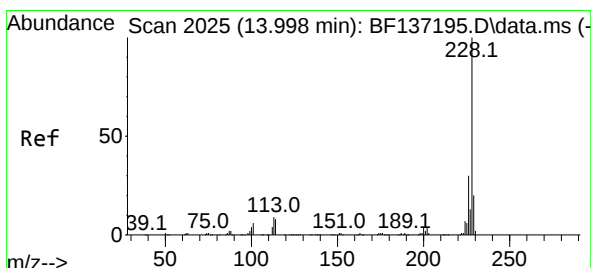
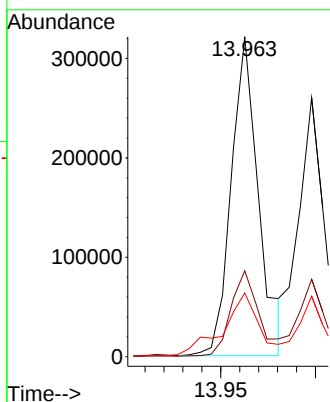
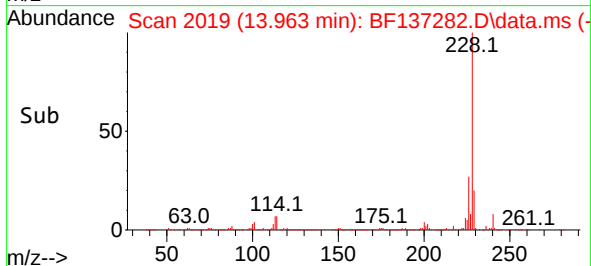


Tgt Ion:228 Resp: 321615
Ion Ratio Lower Upper
228 100
226 26.9 21.6 32.4
229 19.9 15.8 23.6

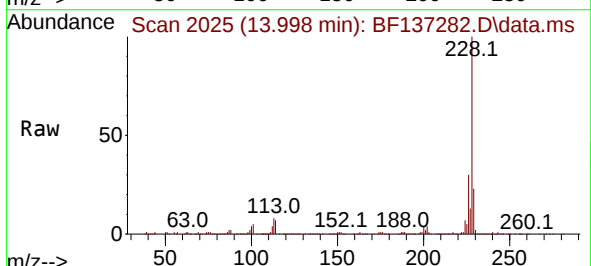
Manual Integrations

APPROVED

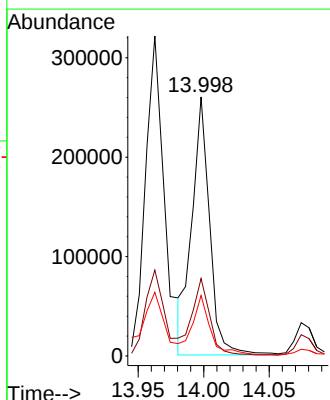
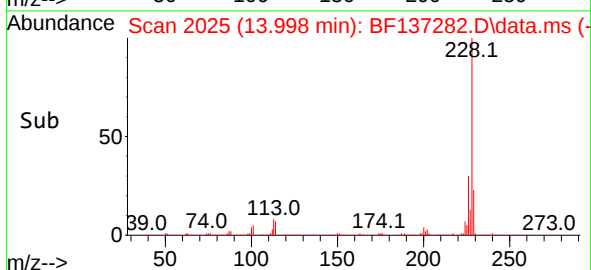
Reviewed By :Jagrut Upadhyay 02/06/2024
Supervised By :mohammad ahmed 02/07/2024

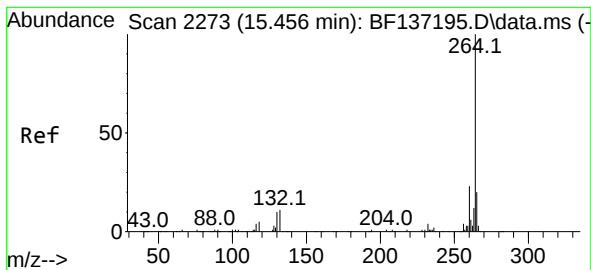


#83
Chrysene
Concen: 28.994 ng
RT: 13.998 min Scan# 2025
Delta R.T. 0.000 min
Lab File: BF137282.D
Acq: 05 Feb 2024 18:20



Tgt Ion:228 Resp: 245500
Ion Ratio Lower Upper
228 100
226 29.9 23.7 35.5
229 23.4 15.6 23.4





#86
Perylene-d12
Concen: 20.000 ng
RT: 15.457 min Scan# 21
Delta R.T. 0.000 min
Lab File: BF137282.D
Acq: 05 Feb 2024 18:20

Instrument :

BNA_F

ClientSampleId :

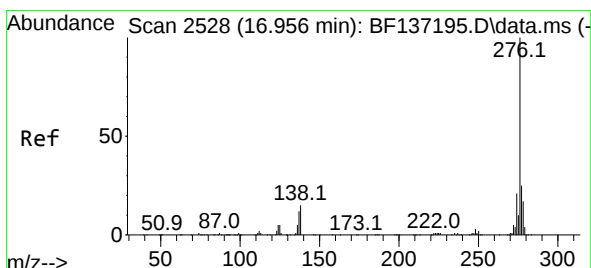
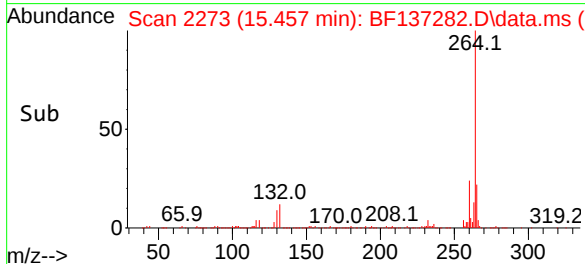
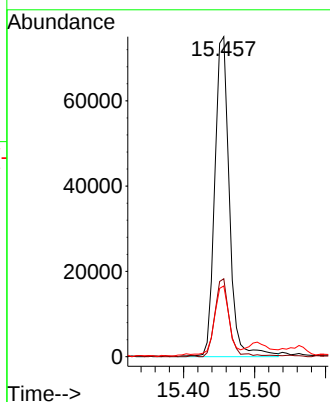
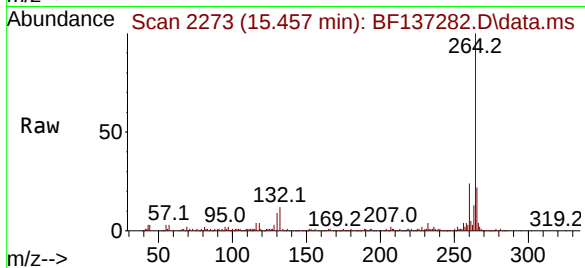
WC-N-COMP

Tgt Ion:264 Resp: 10708
Ion Ratio Lower Upper
264 100
260 24.3 18.2 27.4
265 22.1 16.2 24.2

Manual Integrations

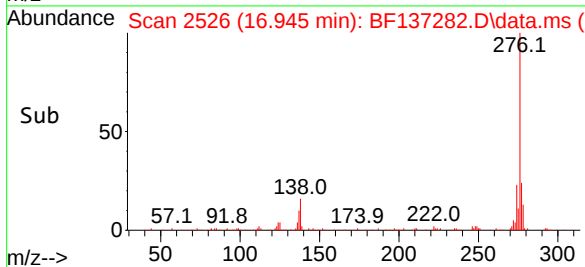
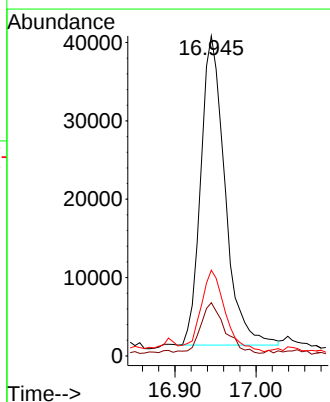
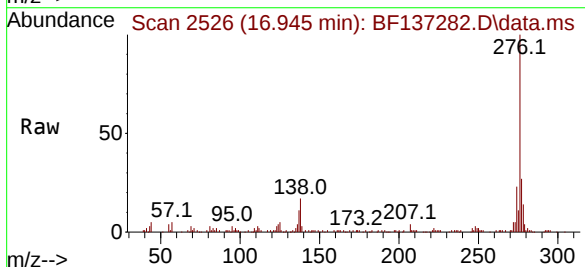
APPROVED

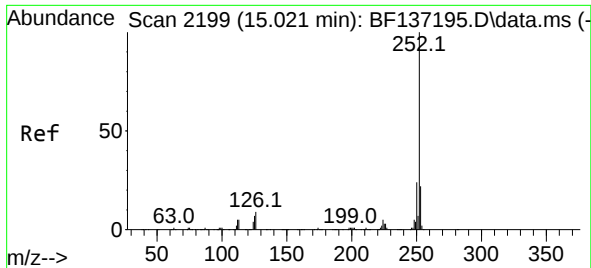
Reviewed By :Jagrut Upadhyay 02/06/2024
Supervised By :mohammad ahmed 02/07/2024



#87
Indeno(1,2,3-cd)pyrene
Concen: 10.865 ng
RT: 16.945 min Scan# 2526
Delta R.T. -0.012 min
Lab File: BF137282.D
Acq: 05 Feb 2024 18:20

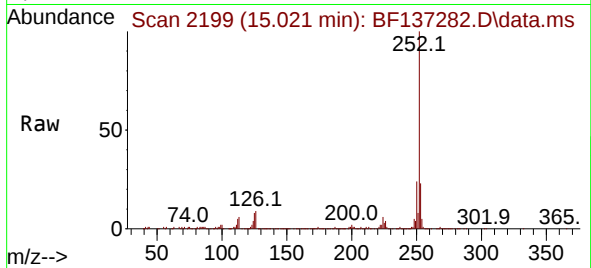
Tgt Ion:276 Resp: 81736
Ion Ratio Lower Upper
276 100
138 16.4 14.6 21.8
277 26.7 20.2 30.2





#88
Benzo(b)fluoranthene
Concen: 39.322 ng m
RT: 15.021 min Scan# 2199
Delta R.T. 0.000 min
Lab File: BF137282.D
Acq: 05 Feb 2024 18:20

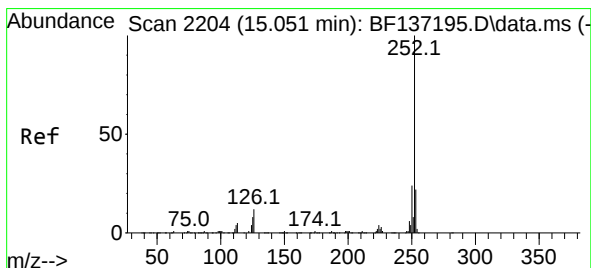
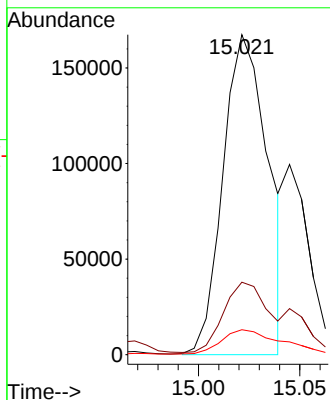
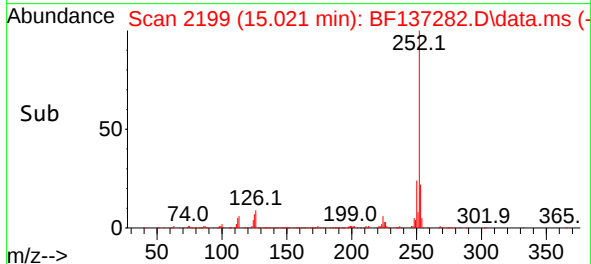
Instrument :
BNA_F
ClientSampleId :
WC-N-COMP



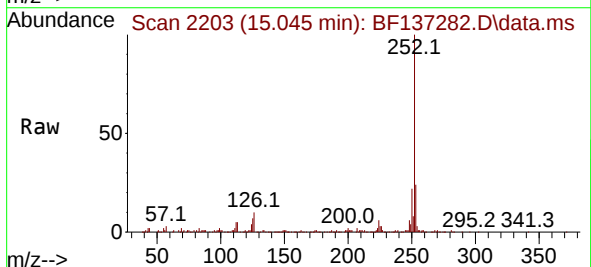
Tgt Ion:252 Resp: 25894
Ion Ratio Lower Upper
252 100
253 22.6 17.9 26.9
125 7.8 5.4 8.2

Manual Integrations
APPROVED

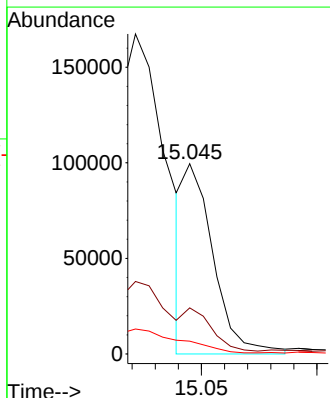
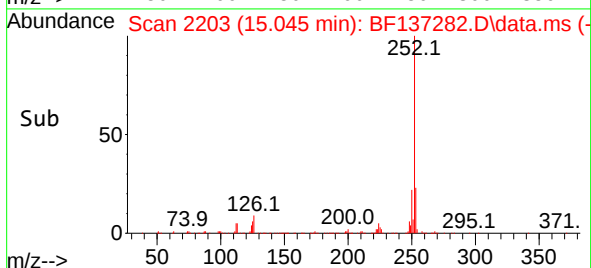
Reviewed By :Jagrut Upadhyay 02/06/2024
Supervised By :mohammad ahmed 02/07/2024

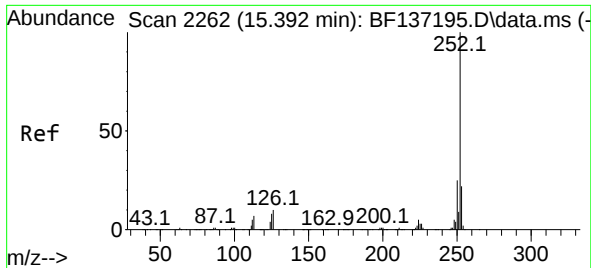


#89
Benzo(k)fluoranthene
Concen: 12.705 ng m
RT: 15.045 min Scan# 2203
Delta R.T. -0.006 min
Lab File: BF137282.D
Acq: 05 Feb 2024 18:20



Tgt Ion:252 Resp: 88511
Ion Ratio Lower Upper
252 100
253 24.3 17.0 25.6
125 6.8 5.9 8.9





#90
Benzo(a)pyrene
Concen: 29.035 ng
RT: 15.392 min Scan# 21
Delta R.T. 0.000 min
Lab File: BF137282.D
Acq: 05 Feb 2024 18:20

Instrument :

BNA_F

ClientSampleId :

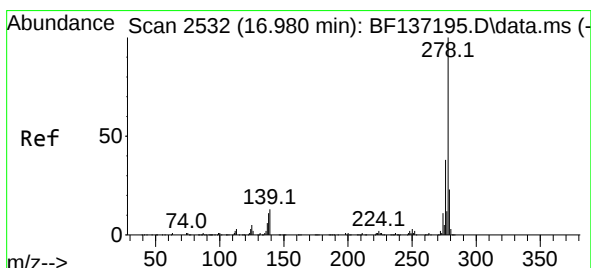
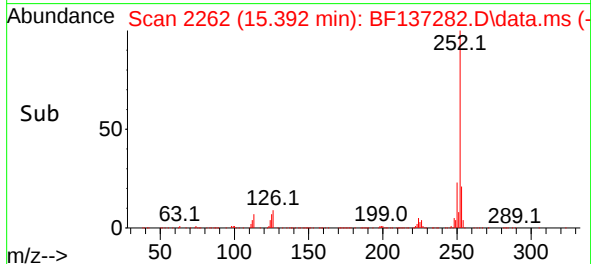
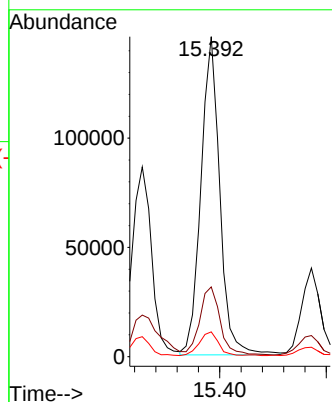
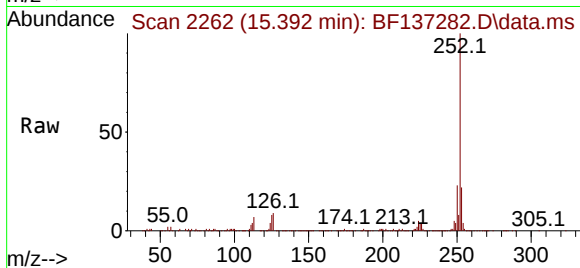
WC-N-COMP

Tgt Ion:252 Resp: 17993
Ion Ratio Lower Upper
252 100
253 21.8 17.8 26.6
125 7.8 6.5 9.7

Manual Integrations

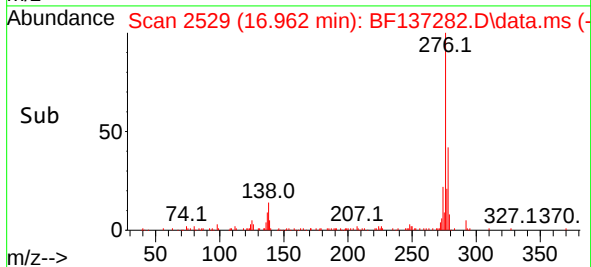
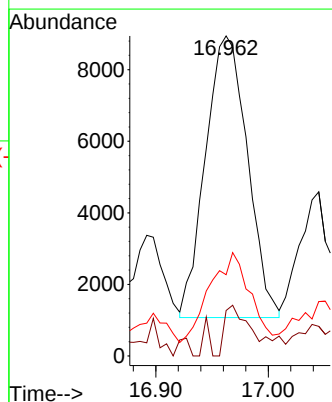
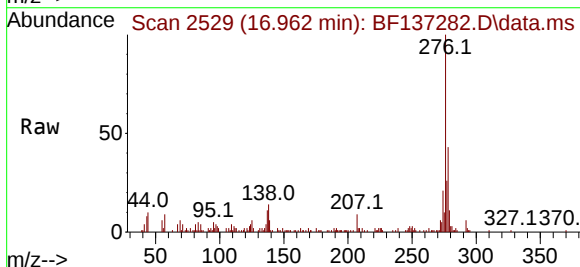
APPROVED

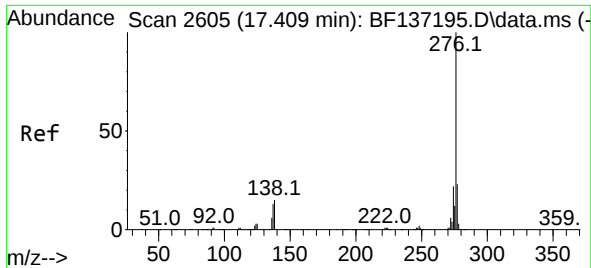
Reviewed By :Jagrut Upadhyay 02/06/2024
Supervised By :mohammad ahmed 02/07/2024



#91
Dibenzo(a,h)anthracene
Concen: 3.386 ng m
RT: 16.962 min Scan# 2529
Delta R.T. -0.017 min
Lab File: BF137282.D
Acq: 05 Feb 2024 18:20

Tgt Ion:278 Resp: 20413
Ion Ratio Lower Upper
278 100
139 14.2 10.0 15.0
279 25.4 18.5 27.7





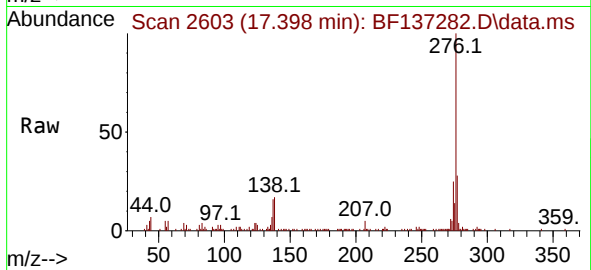
#92
 Benzo(g,h,i)perylene
 Concen: 13.091 ng
 RT: 17.398 min Scan# 20
 Delta R.T. -0.012 min
 Lab File: BF137282.D
 Acq: 05 Feb 2024 18:20

Instrument :

BNA_F

ClientSampleId :

WC-N-COMP



Tgt Ion:276 Resp: 77449
 Ion Ratio Lower Upper
 276 100
 277 28.0 18.4 27.6
 138 16.6 11.8 17.8

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 02/06/2024
 Supervised By :mohammad ahmed 02/07/2024

