

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF100923\
 Data File : BF135666.D
 Acq On : 09 Oct 2023 23:14
 Operator : CG\JU
 Sample : 04778-07
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SOIL-3

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 10/11/2023
 Supervised By :mohammad ahmed 10/11/2023

Quant Time: Oct 10 02:29:37 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 04 17:06:20 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.740	152	113155	20.000	ng	0.00
21) Naphthalene-d8	8.016	136	402118	20.000	ng	0.00
39) Acenaphthene-d10	9.775	164	196820	20.000	ng	0.00
64) Phenanthrene-d10	11.269	188	319755	20.000	ng	0.00
76) Chrysene-d12	13.933	240	198523	20.000	ng	0.00
86) Perylene-d12	15.398	264	216582	20.000	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.375	112	504847	72.565	ng	0.00
7) Phenol-d6	6.387	99	627374	70.918	ng	0.00
23) Nitrobenzene-d5	7.304	82	378579	51.149	ng	0.00
42) 2,4,6-Tribromophenol	10.569	330	134619	68.827	ng	0.00
45) 2-Fluorobiphenyl	9.092	172	629492	48.254	ng	0.00
79) Terphenyl-d14	12.863	244	499895	39.035	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.040	128	492451	25.205	ng	100
37) 2-Methylnaphthalene	8.734	142	175509	13.364	ng	100
38) 1-Methylnaphthalene	8.828	142	103512	8.418	ng	99
46) 1,1'-Biphenyl	9.198	154	42031	2.779	ng	97
52) Acenaphthene	9.810	154	187528	17.405	ng	98
55) Dibenzofuran	9.981	168	205101	12.475	ng	99
58) Fluorene	10.328	166	230791	18.259	ng	100
71) Phenanthrene	11.298	178	861458	56.963	ng	99
72) Anthracene	11.345	178	121511	7.817	ng	98
73) Carbazole	11.510	167	86968	6.146	ng	99
75) Fluoranthene	12.492	202	504137	31.992	ng	99
78) Pyrene	12.722	202	380626	20.138	ng	99
81) Benzo(a)anthracene	13.921	228	109379	8.532	ng	99
83) Chrysene	13.957	228	89585	7.029	ng	98
88) Benzo(b)fluoranthene	14.980	252	80610m	6.875	ng	
90) Benzo(a)pyrene	15.345	252	49254	4.405	ng	97

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

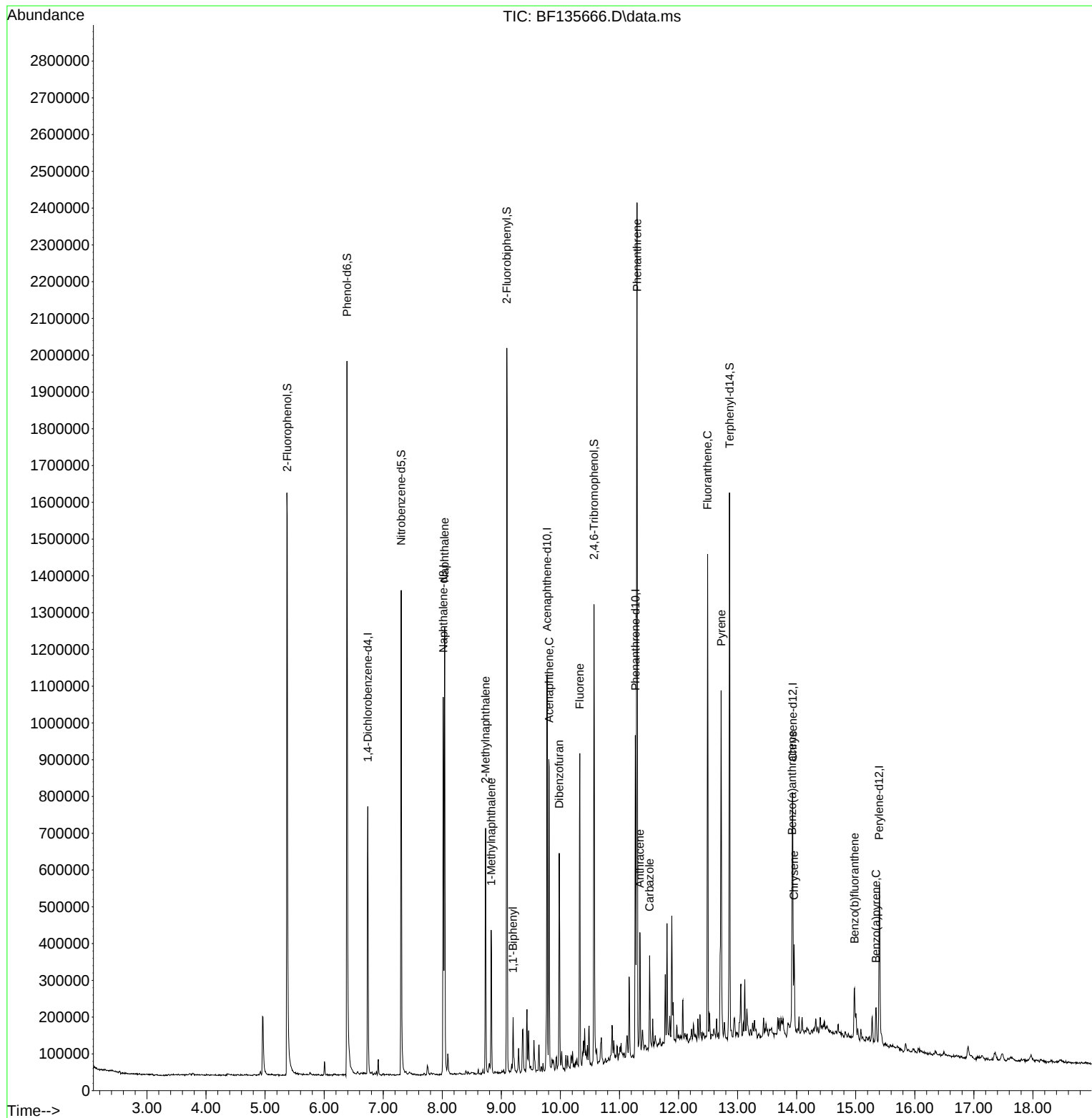
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF100923\
Data File : BF135666.D
Acq On : 09 Oct 2023 23:14
Operator : CG\JU
Sample : 04778-07
Misc :
ALS Vial : 13 Sample Multiplier: 1

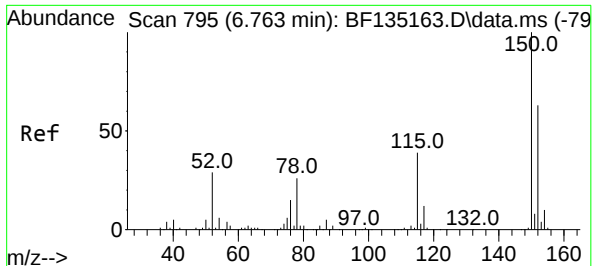
Instrument :
BNA_F
ClientSampleId :
SOIL-3

Quant Time: Oct 10 02:29:37 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 04 17:06:20 2023
Response via : Initial Calibration

Manual Integrations
APPROVED

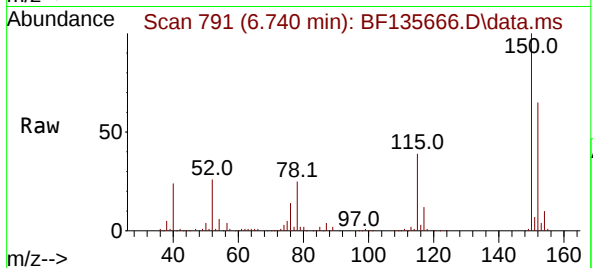
Reviewed By :Yogesh Patel 10/11/2023
Supervised By :mohammad ahmed 10/11/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.740 min Scan# 795
Delta R.T. 0.001 min
Lab File: BF135666.D
Acq: 09 Oct 2023 23:14

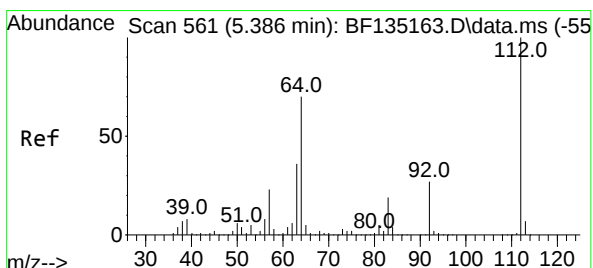
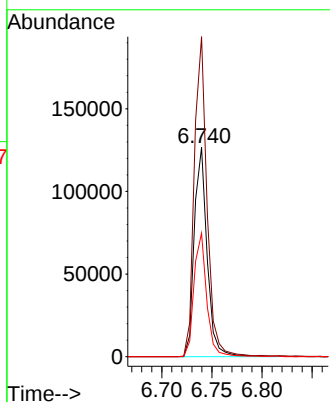
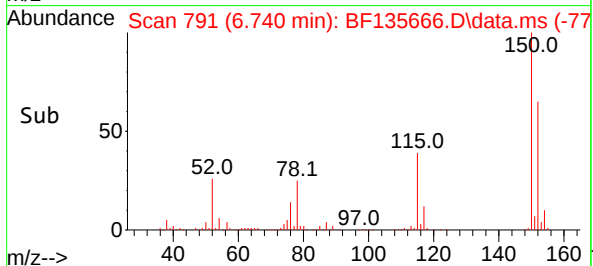
Instrument :
BNA_F
ClientSampleId :
SOIL-3



Tgt Ion:152 Resp: 11315
Ion Ratio Lower Upper
152 100
150 152.9 127.8 191.6
115 59.0 49.8 74.8

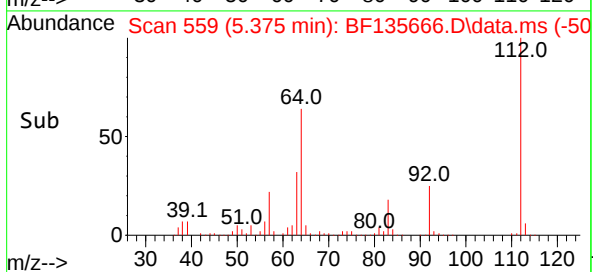
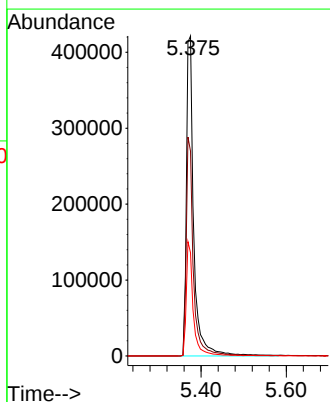
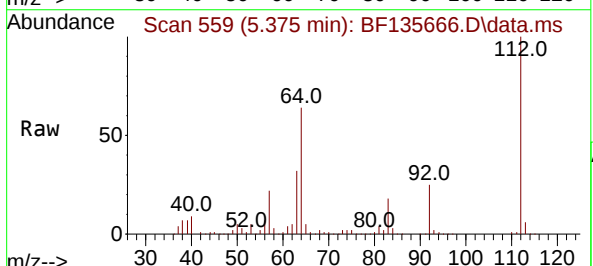
Manual Integrations
APPROVED

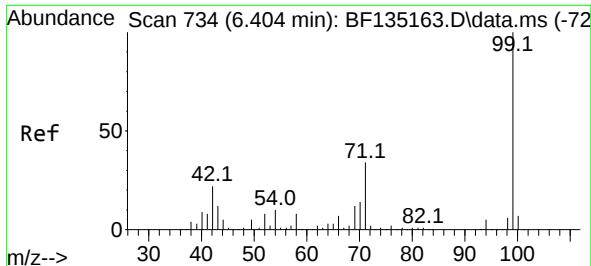
Reviewed By :Yogesh Patel 10/11/2023
Supervised By :mohammad ahmed 10/11/2023



#5
2-Fluorophenol
Concen: 72.565 ng
RT: 5.375 min Scan# 559
Delta R.T. 0.006 min
Lab File: BF135666.D
Acq: 09 Oct 2023 23:14

Tgt Ion:112 Resp: 504847
Ion Ratio Lower Upper
112 100
64 64.0 55.9 83.9
63 32.3 29.0 43.6





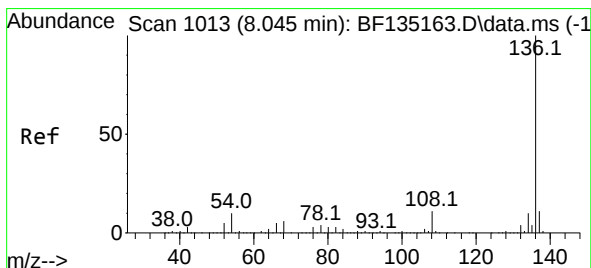
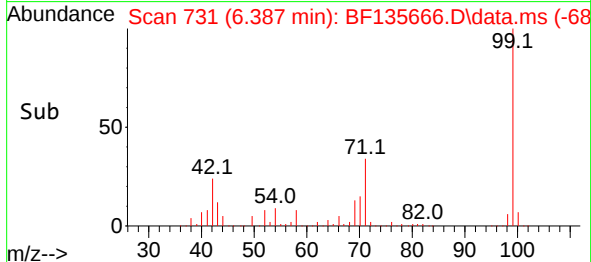
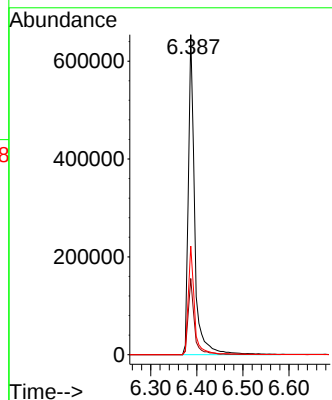
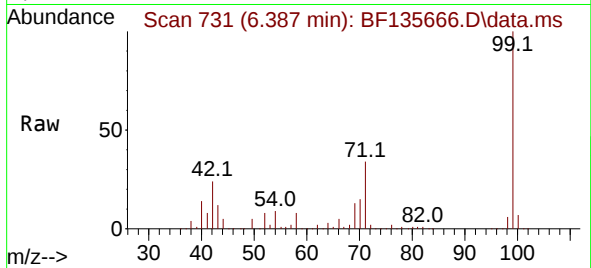
#7
Phenol-d6
Concen: 70.918 ng
RT: 6.387 min Scan# 71
Delta R.T. 0.000 min
Lab File: BF135666.D
Acq: 09 Oct 2023 23:14

Instrument :
BNA_F
ClientSampleId :
SOIL-3

Tgt Ion: 99 Resp: 627374
Ion Ratio Lower Upper
99 100
42 23.8 17.9 26.9
71 33.9 27.0 40.6

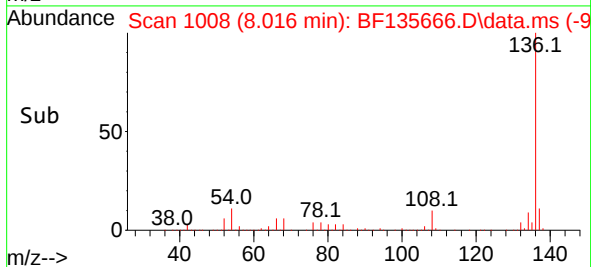
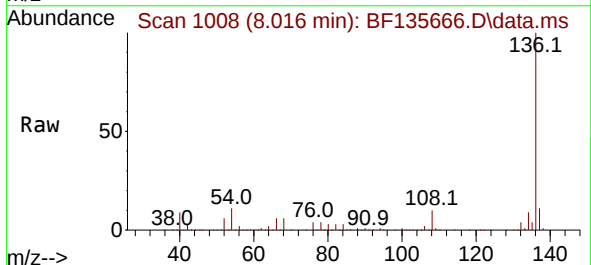
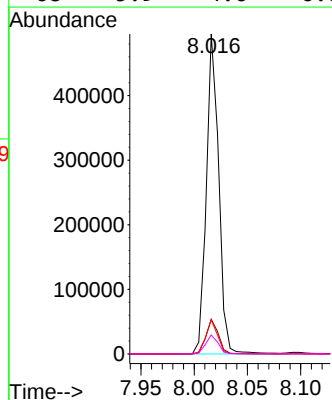
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/11/2023
Supervised By :mohammad ahmed 10/11/2023



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.016 min Scan# 1008
Delta R.T. 0.000 min
Lab File: BF135666.D
Acq: 09 Oct 2023 23:14

Tgt Ion:136 Resp: 402118
Ion Ratio Lower Upper
136 100
137 10.8 8.8 13.2
54 10.7 7.7 11.5
68 5.9 4.6 6.8





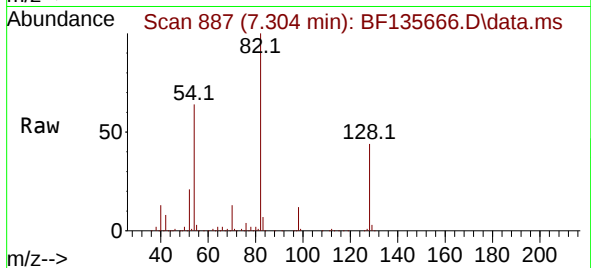
#23
Nitrobenzene-d5
Concen: 51.149 ng
RT: 7.304 min Scan# 88
Delta R.T. -0.006 min
Lab File: BF135666.D
Acq: 09 Oct 2023 23:14

Instrument :

BNA_F

ClientSampleId :

SOIL-3

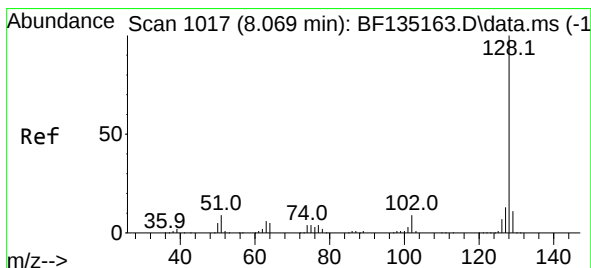
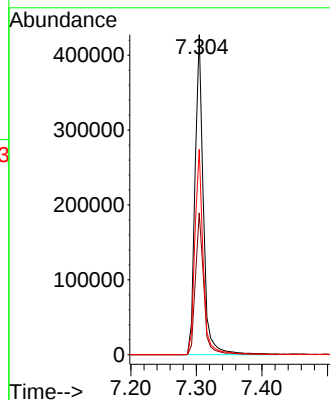
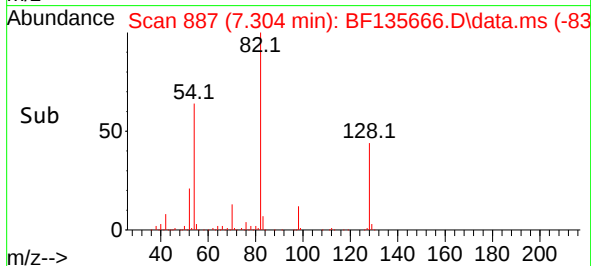


Tgt Ion: 82 Resp: 378579
Ion Ratio Lower Upper
82 100
128 44.3 35.8 53.6
54 64.2 50.6 76.0

Manual Integrations

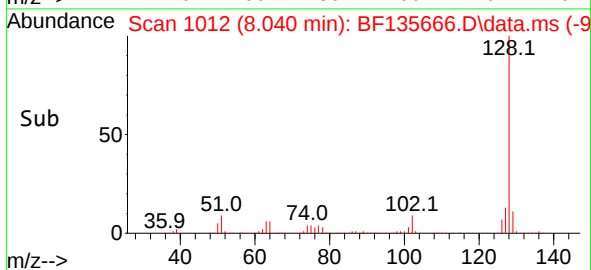
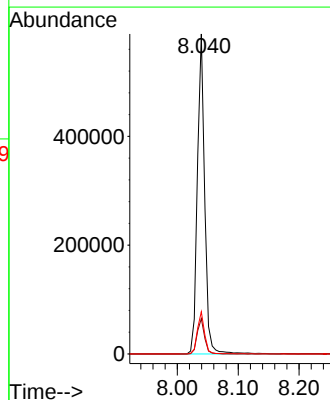
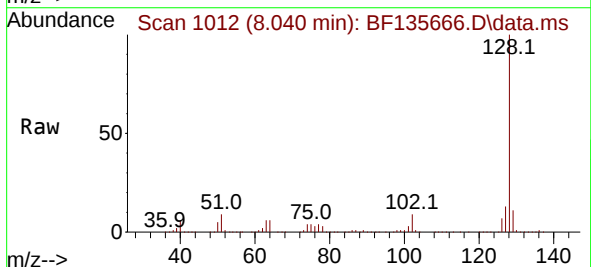
APPROVED

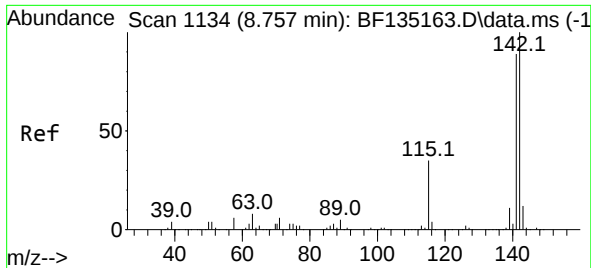
Reviewed By :Yogesh Patel 10/11/2023
Supervised By :mohammad ahmed 10/11/2023



#31
Naphthalene
Concen: 25.205 ng
RT: 8.040 min Scan# 1012
Delta R.T. 0.000 min
Lab File: BF135666.D
Acq: 09 Oct 2023 23:14

Tgt Ion:128 Resp: 492451
Ion Ratio Lower Upper
128 100
129 11.1 8.7 13.1
127 13.2 10.7 16.1





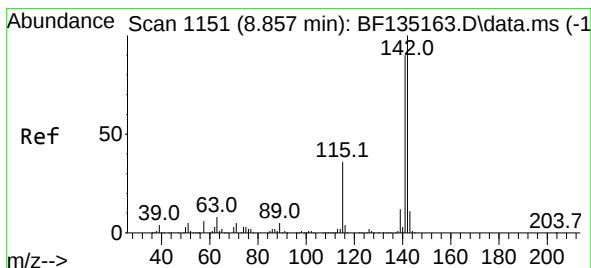
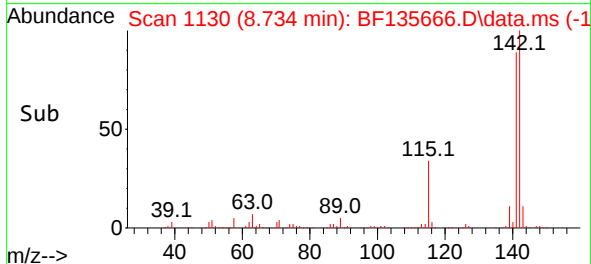
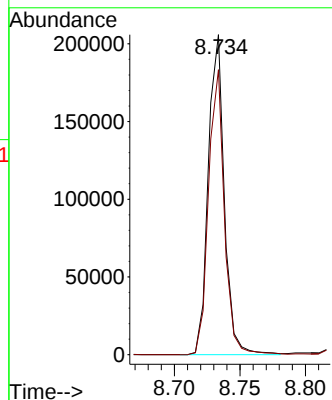
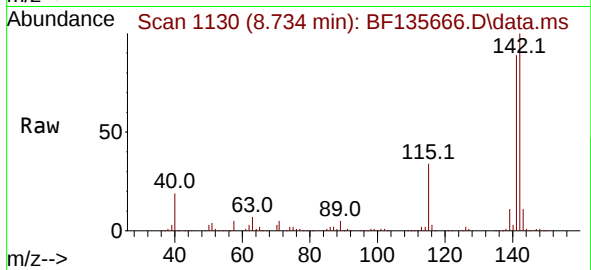
#37
2-Methylnaphthalene
Concen: 13.364 ng
RT: 8.734 min Scan# 1134
Delta R.T. 0.000 min
Lab File: BF135666.D
Acq: 09 Oct 2023 23:14

Instrument :
BNA_F
ClientSampleId :
SOIL-3

Tgt Ion:142 Resp: 175509
Ion Ratio Lower Upper
142 100
141 89.1 71.0 106.6

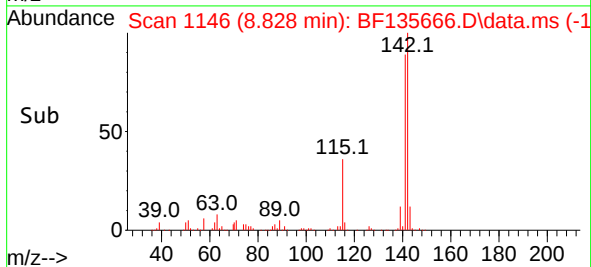
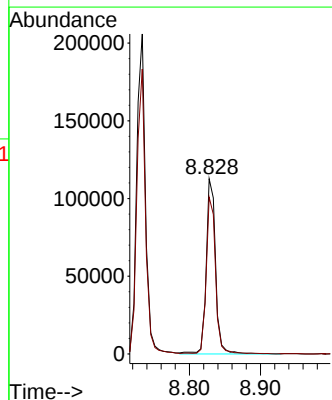
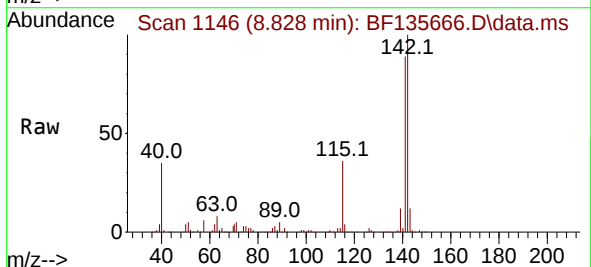
Manual Integrations
APPROVED

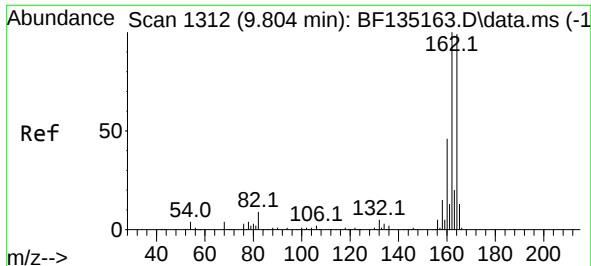
Reviewed By :Yogesh Patel 10/11/2023
Supervised By :mohammad ahmed 10/11/2023



#38
1-Methylnaphthalene
Concen: 8.418 ng
RT: 8.828 min Scan# 1146
Delta R.T. 0.000 min
Lab File: BF135666.D
Acq: 09 Oct 2023 23:14

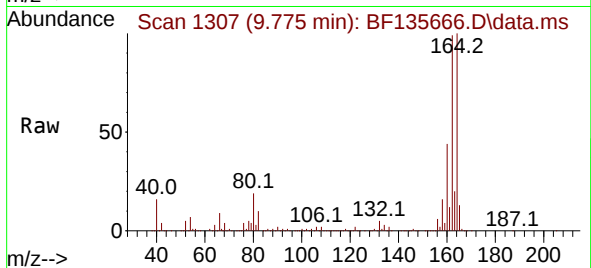
Tgt Ion:142 Resp: 103512
Ion Ratio Lower Upper
142 100
141 89.3 72.4 108.6





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.775 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF135666.D
Acq: 09 Oct 2023 23:14

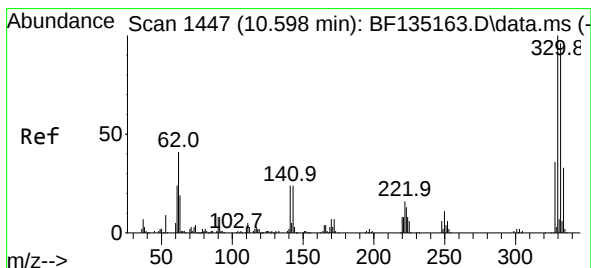
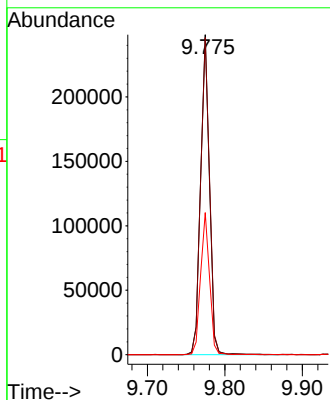
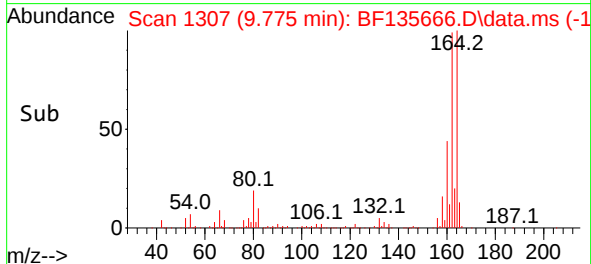
Instrument :
BNA_F
ClientSampleId :
SOIL-3



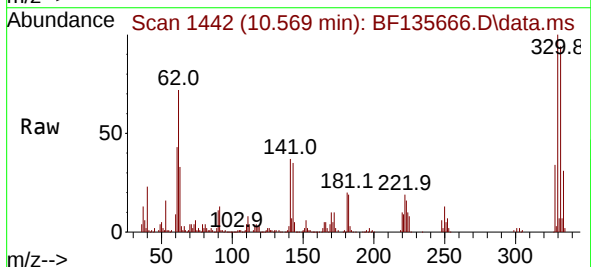
Tgt Ion:164 Resp: 196820
Ion Ratio Lower Upper
164 100
162 99.1 81.0 121.4
160 44.4 37.0 55.4

Manual Integrations
APPROVED

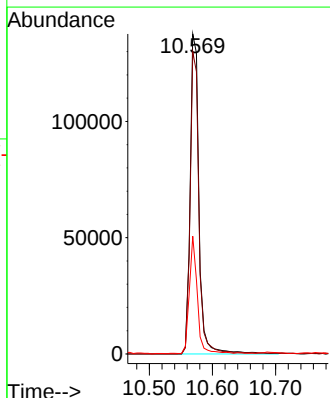
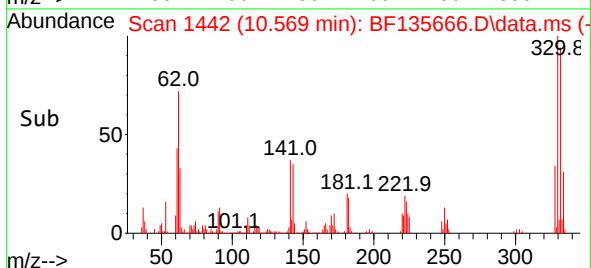
Reviewed By :Yogesh Patel 10/11/2023
Supervised By :mohammad ahmed 10/11/2023

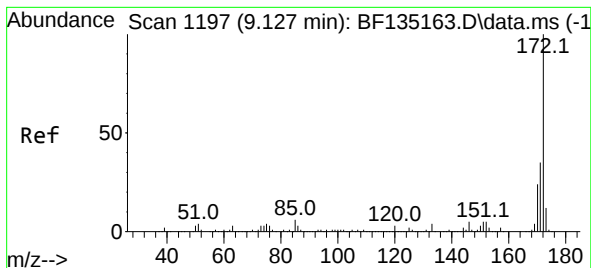


#42
2,4,6-Tribromophenol
Concen: 68.827 ng
RT: 10.569 min Scan# 1442
Delta R.T. 0.000 min
Lab File: BF135666.D
Acq: 09 Oct 2023 23:14



Tgt Ion:330 Resp: 134619
Ion Ratio Lower Upper
330 100
332 93.5 77.3 115.9
141 33.1 25.8 38.8





#45

2-Fluorobiphenyl

Concen: 48.254 ng

RT: 9.092 min Scan# 1197

Delta R.T. -0.006 min

Lab File: BF135666.D

Acq: 09 Oct 2023 23:14

Instrument :

BNA_F

ClientSampleId :

SOIL-3

Tgt Ion:172 Resp: 62949

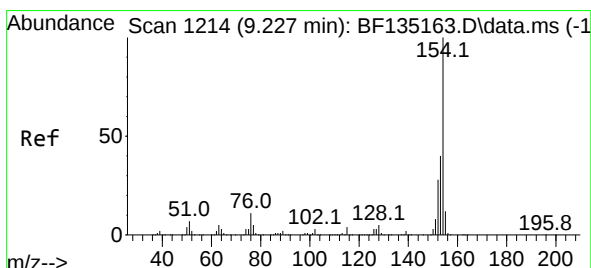
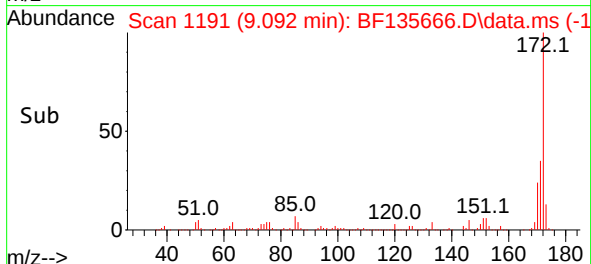
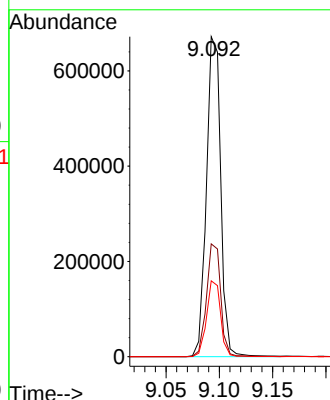
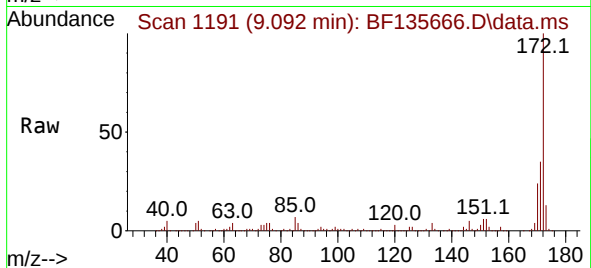
Ion	Ratio	Lower	Upper
172	100		
171	35.3	28.4	42.6
170	23.7	19.0	28.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/11/2023

Supervised By :mohammad ahmed 10/11/2023



#46

1,1'-Biphenyl

Concen: 2.779 ng

RT: 9.198 min Scan# 1209

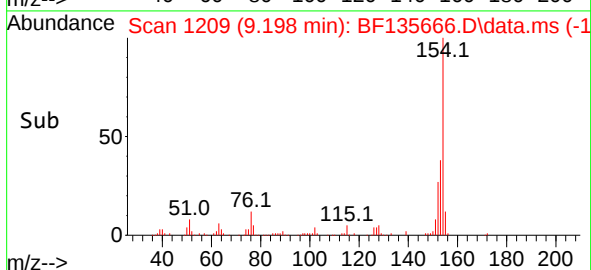
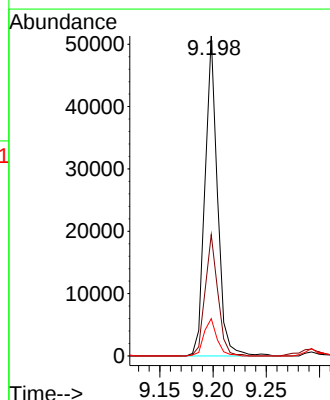
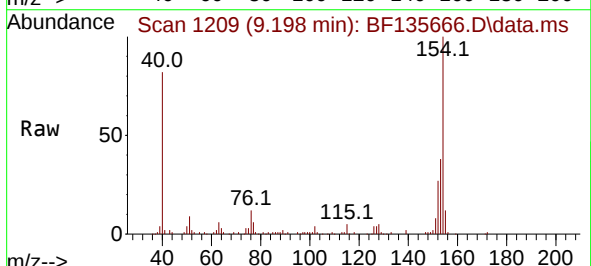
Delta R.T. 0.000 min

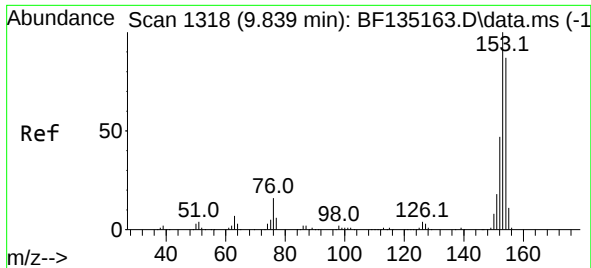
Lab File: BF135666.D

Acq: 09 Oct 2023 23:14

Tgt Ion:154 Resp: 42031

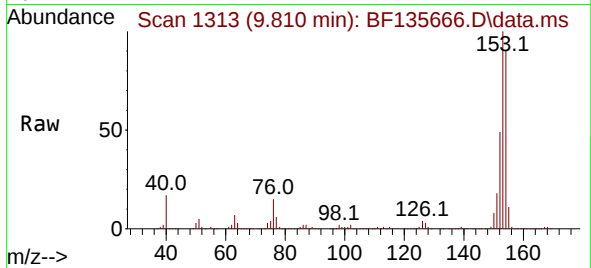
Ion	Ratio	Lower	Upper
154	100		
153	37.9	19.6	59.6
76	11.7	0.0	31.0





#52
Acenaphthene
Concen: 17.405 ng
RT: 9.810 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF135666.D
Acq: 09 Oct 2023 23:14

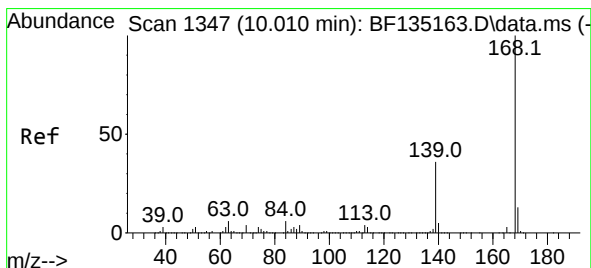
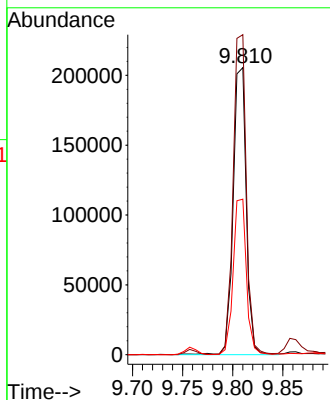
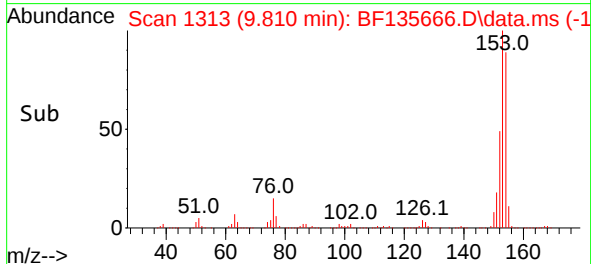
Instrument :
BNA_F
ClientSampleId :
SOIL-3



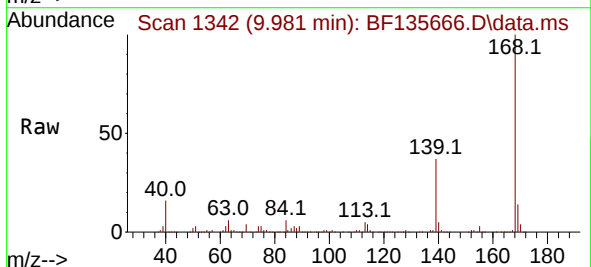
Tgt Ion:154 Resp: 187528
Ion Ratio Lower Upper
154 100
153 111.5 92.1 138.1
152 54.2 43.1 64.7

Manual Integrations
APPROVED

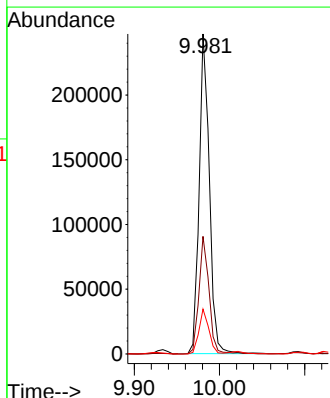
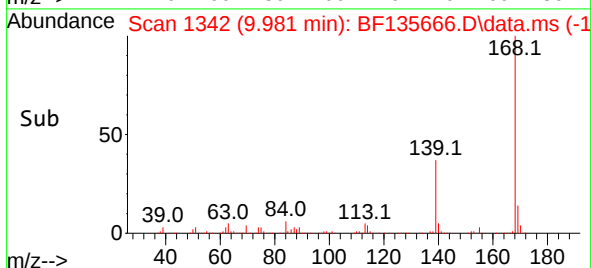
Reviewed By :Yogesh Patel 10/11/2023
Supervised By :mohammad ahmed 10/11/2023

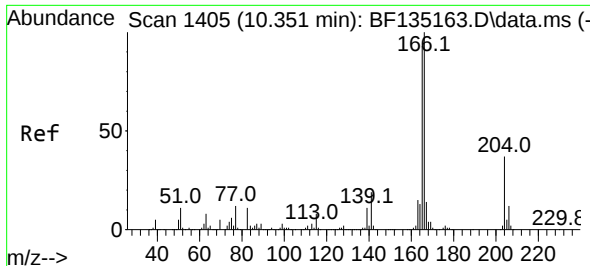


#55
Dibenzofuran
Concen: 12.475 ng
RT: 9.981 min Scan# 1342
Delta R.T. 0.000 min
Lab File: BF135666.D
Acq: 09 Oct 2023 23:14



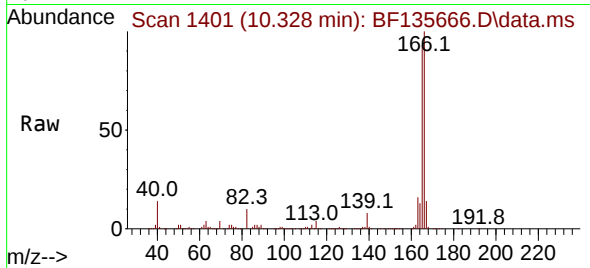
Tgt Ion:168 Resp: 205101
Ion Ratio Lower Upper
168 100
139 36.7 29.0 43.6
169 14.0 10.4 15.6





#58
Fluorene
Concen: 18.259 ng
RT: 10.328 min Scan# 1405
Delta R.T. 0.000 min
Lab File: BF135666.D
Acq: 09 Oct 2023 23:14

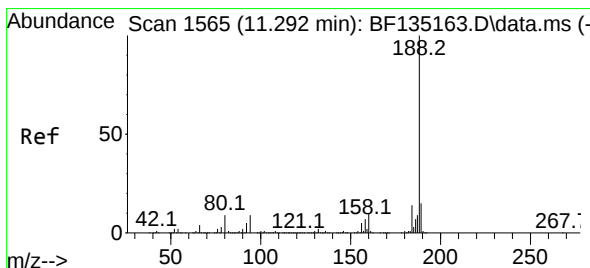
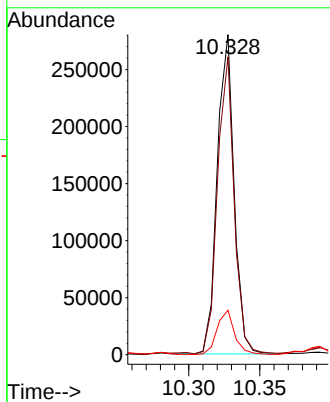
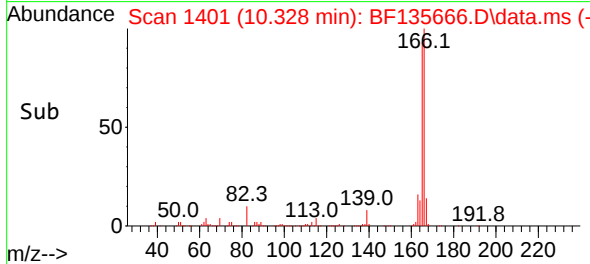
Instrument :
BNA_F
ClientSampleId :
SOIL-3



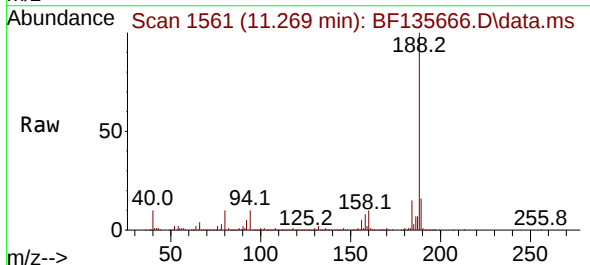
Tgt Ion:166 Resp: 230791
Ion Ratio Lower Upper
166 100
165 93.1 74.3 111.5
167 13.9 10.9 16.3

Manual Integrations
APPROVED

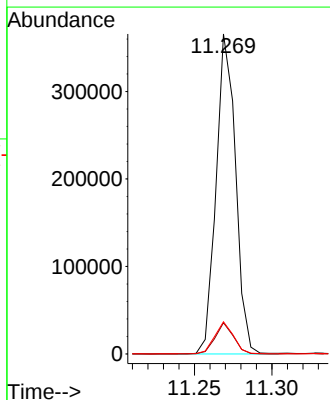
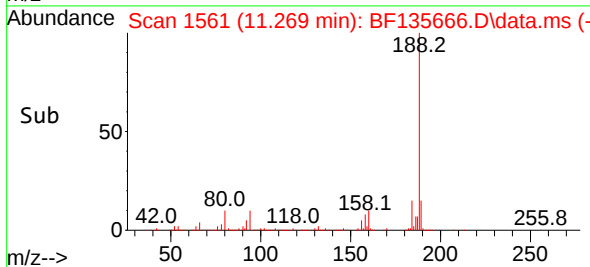
Reviewed By :Yogesh Patel 10/11/2023
Supervised By :mohammad ahmed 10/11/2023

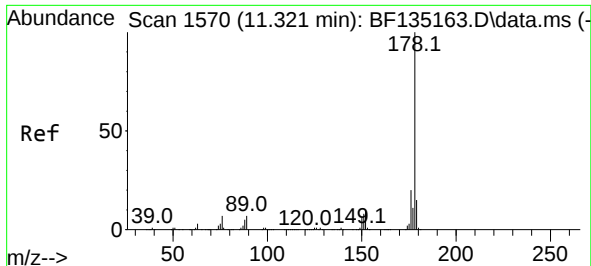


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.269 min Scan# 1561
Delta R.T. 0.000 min
Lab File: BF135666.D
Acq: 09 Oct 2023 23:14



Tgt Ion:188 Resp: 319755
Ion Ratio Lower Upper
188 100
94 9.7 7.0 10.6
80 10.1 7.5 11.3





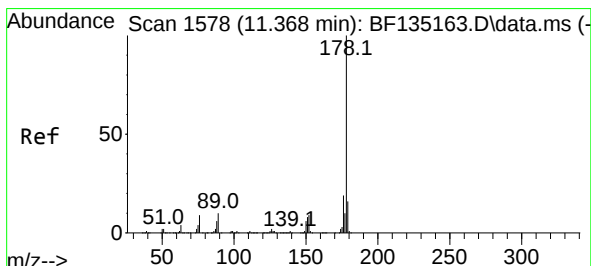
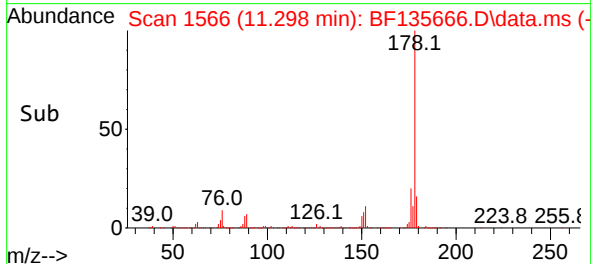
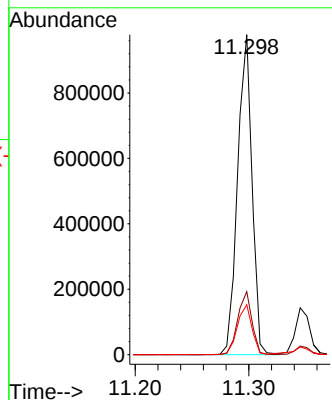
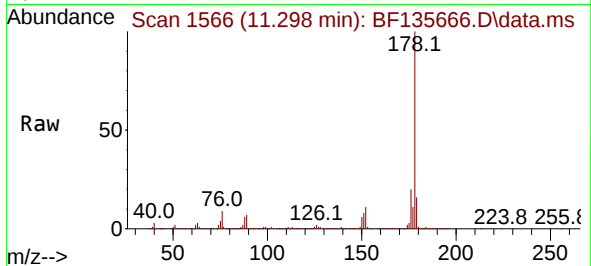
#71
Phenanthrene
Concen: 56.963 ng
RT: 11.298 min Scan# 1566
Delta R.T. 0.006 min
Lab File: BF135666.D
Acq: 09 Oct 2023 23:14

Instrument :
BNA_F
ClientSampleId :
SOIL-3

Tgt Ion:178 Resp: 861458
Ion Ratio Lower Upper
178 100
176 19.7 15.6 23.4
179 15.6 12.0 18.0

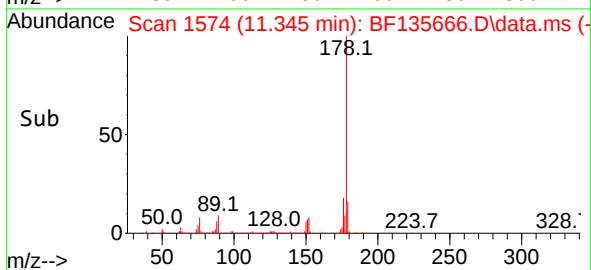
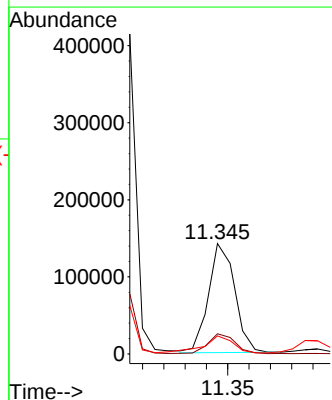
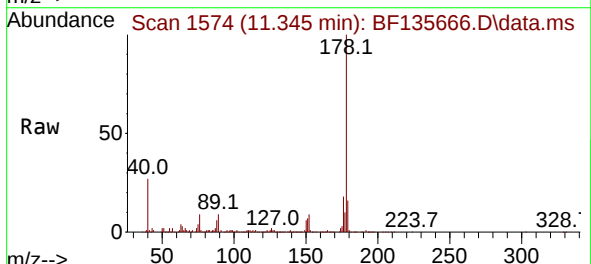
Manual Integrations
APPROVED

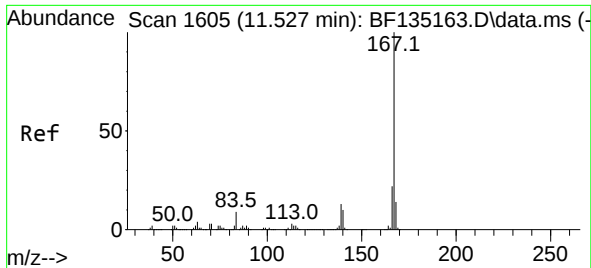
Reviewed By :Yogesh Patel 10/11/2023
Supervised By :mohammad ahmed 10/11/2023



#72
Anthracene
Concen: 7.817 ng
RT: 11.345 min Scan# 1574
Delta R.T. 0.000 min
Lab File: BF135666.D
Acq: 09 Oct 2023 23:14

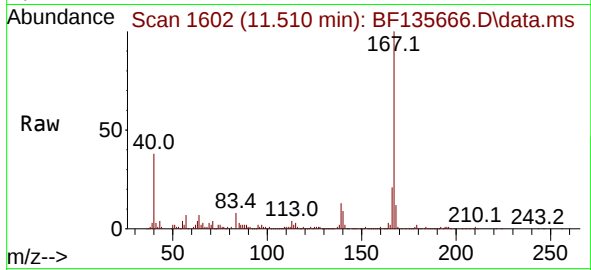
Tgt Ion:178 Resp: 121511
Ion Ratio Lower Upper
178 100
176 18.3 15.4 23.2
179 16.4 12.6 19.0





#73
 Carbazole
 Concen: 6.146 ng
 RT: 11.510 min Scan# 1602
 Delta R.T. 0.000 min
 Lab File: BF135666.D
 Acq: 09 Oct 2023 23:14

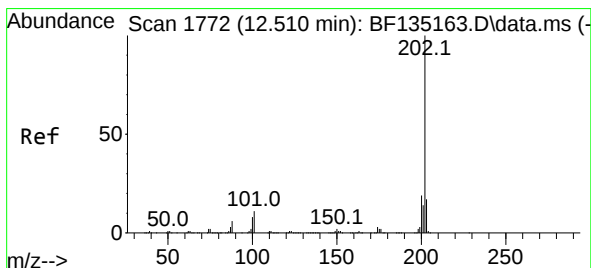
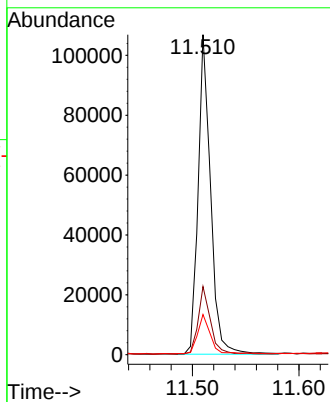
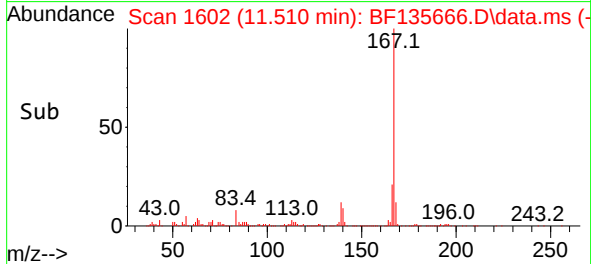
Instrument :
 BNA_F
 ClientSampleId :
 SOIL-3



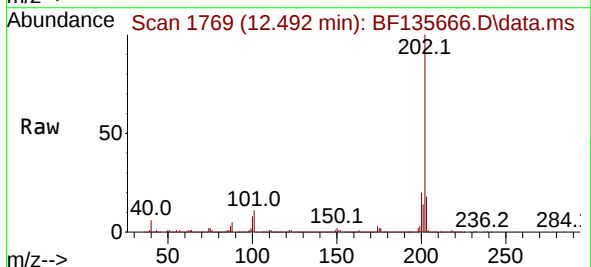
Tgt Ion:167 Resp: 86968
 Ion Ratio Lower Upper
 167 100
 166 21.3 17.4 26.0
 139 12.6 10.6 15.8

Manual Integrations
 APPROVED

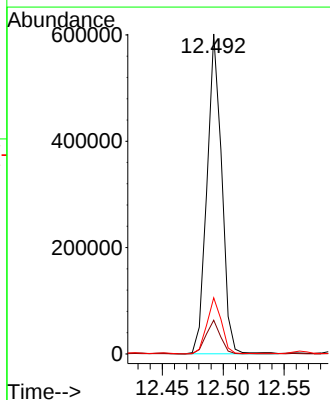
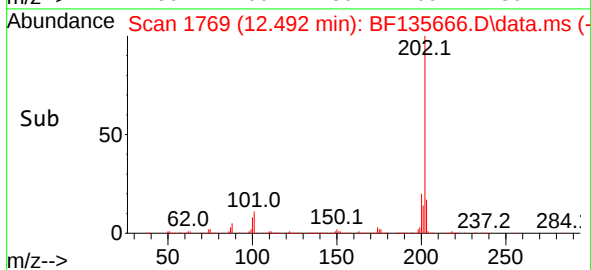
Reviewed By :Yogesh Patel 10/11/2023
 Supervised By :mohammad ahmed 10/11/2023

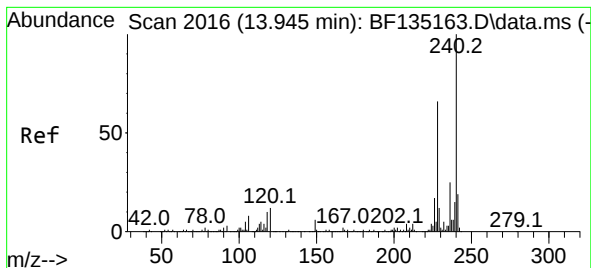


#75
 Fluoranthene
 Concen: 31.992 ng
 RT: 12.492 min Scan# 1769
 Delta R.T. 0.006 min
 Lab File: BF135666.D
 Acq: 09 Oct 2023 23:14



Tgt Ion:202 Resp: 504137
 Ion Ratio Lower Upper
 202 100
 101 10.6 0.0 31.3
 203 17.6 0.0 37.4





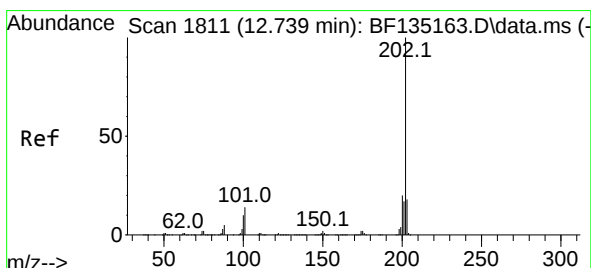
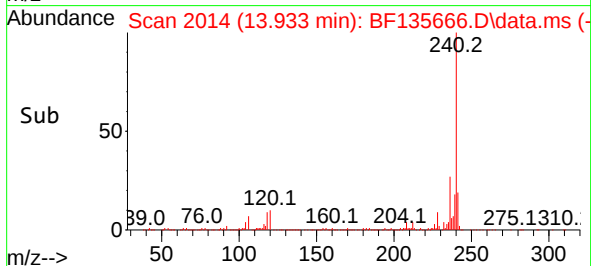
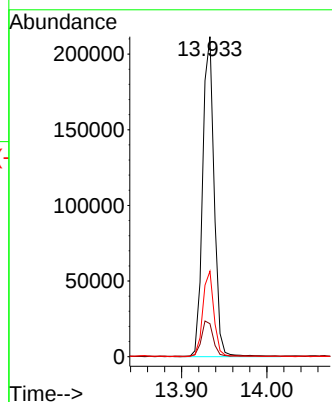
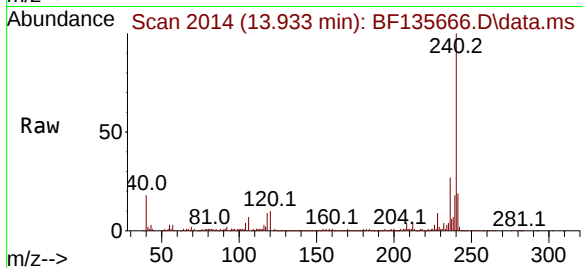
#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.933 min Scan# 2016
Delta R.T. 0.006 min
Lab File: BF135666.D
Acq: 09 Oct 2023 23:14

Instrument :
BNA_F
ClientSampleId :
SOIL-3

Tgt Ion:240 Resp: 19852
Ion Ratio Lower Upper
240 100
120 10.3 9.4 14.2
236 26.7 19.8 29.8

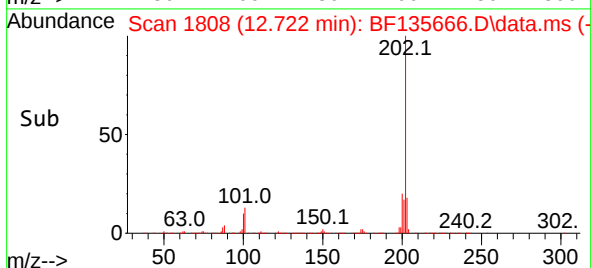
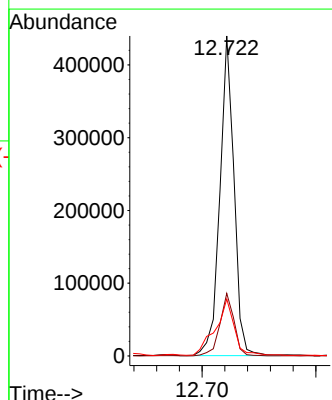
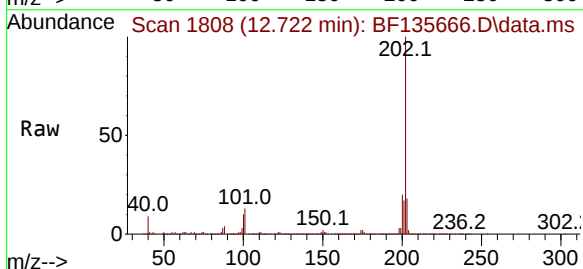
Manual Integrations
APPROVED

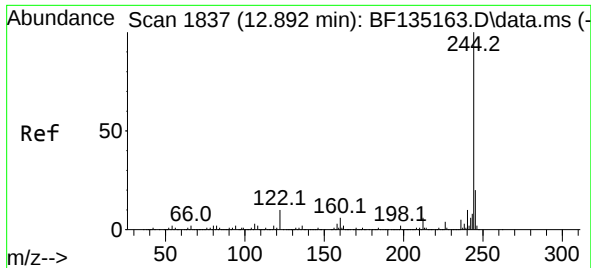
Reviewed By :Yogesh Patel 10/11/2023
Supervised By :mohammad ahmed 10/11/2023



#78
Pyrene
Concen: 20.138 ng
RT: 12.722 min Scan# 1808
Delta R.T. 0.006 min
Lab File: BF135666.D
Acq: 09 Oct 2023 23:14

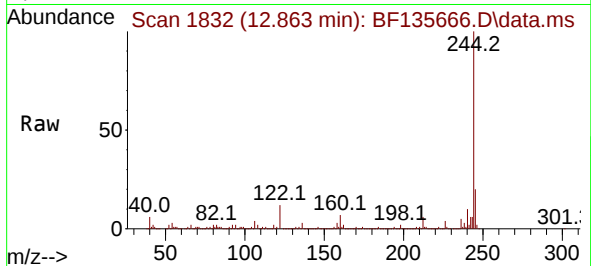
Tgt Ion:202 Resp: 380626
Ion Ratio Lower Upper
202 100
200 19.6 16.2 24.2
203 17.8 14.2 21.4





#79
 Terphenyl-d14
 Concen: 39.035 ng
 RT: 12.863 min Scan# 11
 Delta R.T. 0.000 min
 Lab File: BF135666.D
 Acq: 09 Oct 2023 23:14

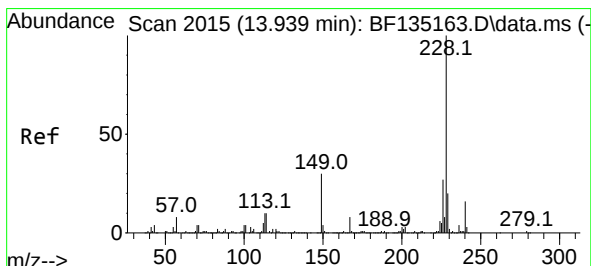
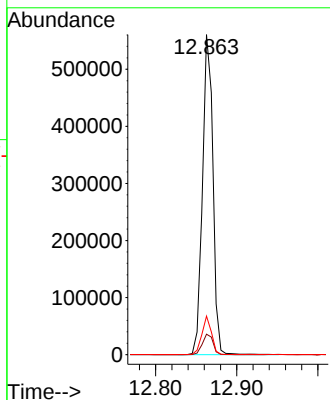
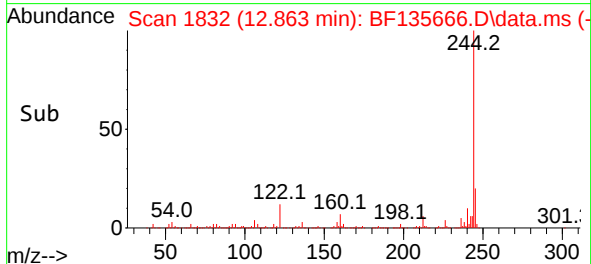
Instrument :
 BNA_F
 ClientSampleId :
 SOIL-3



Tgt Ion:244 Resp: 499899
 Ion Ratio Lower Upper
 244 100
 212 6.4 5.1 7.7
 122 12.1 7.9 11.9

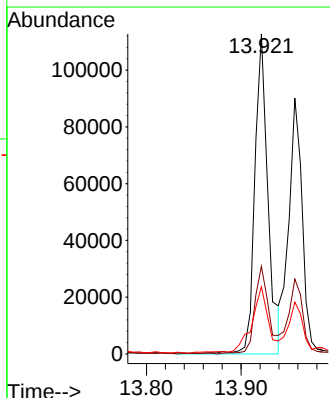
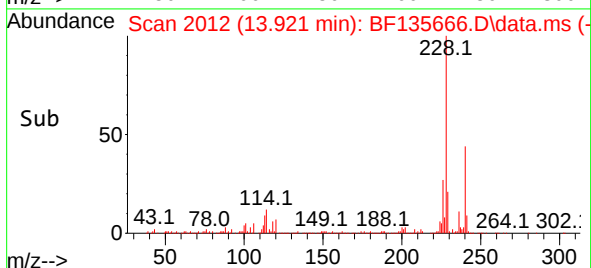
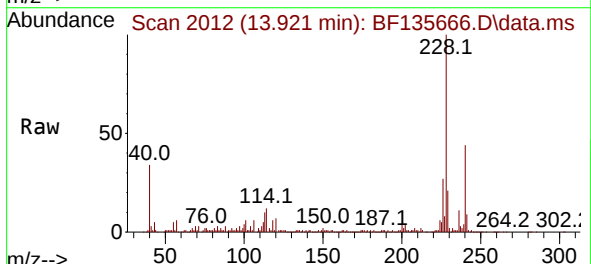
Manual Integrations
 APPROVED

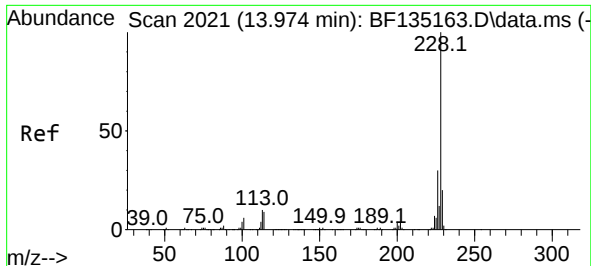
Reviewed By :Yogesh Patel 10/11/2023
 Supervised By :mohammad ahmed 10/11/2023



#81
 Benzo(a)anthracene
 Concen: 8.532 ng
 RT: 13.921 min Scan# 2012
 Delta R.T. 0.006 min
 Lab File: BF135666.D
 Acq: 09 Oct 2023 23:14

Tgt Ion:228 Resp: 109379
 Ion Ratio Lower Upper
 228 100
 226 27.4 21.7 32.5
 229 21.0 15.8 23.8





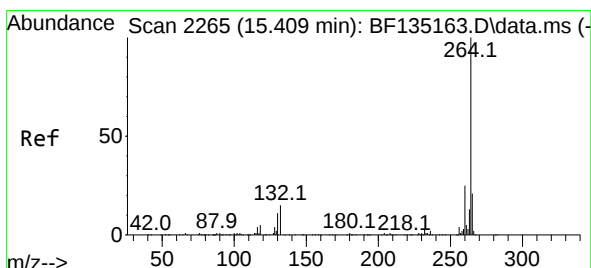
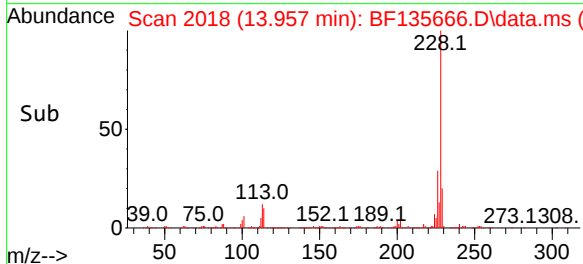
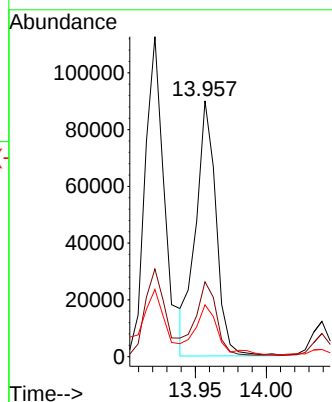
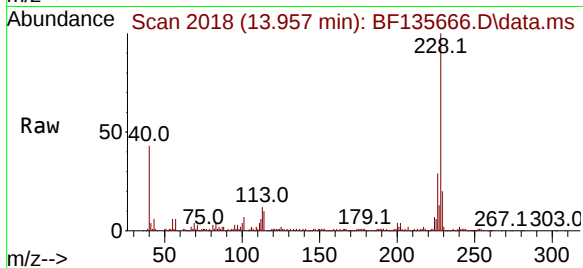
#83
Chrysene
Concen: 7.029 ng
RT: 13.957 min Scan# 2021
Delta R.T. 0.006 min
Lab File: BF135666.D
Acq: 09 Oct 2023 23:14

Instrument :
BNA_F
ClientSampleId :
SOIL-3

Tgt Ion:228 Resp: 8958
Ion Ratio Lower Upper
228 100
226 29.3 24.3 36.5
229 20.3 16.0 24.0

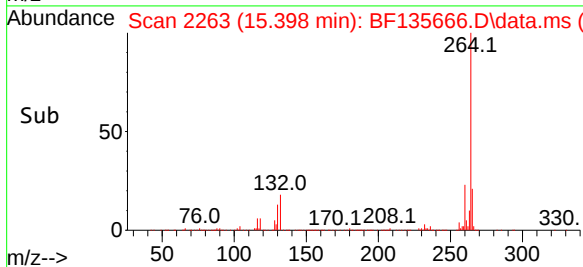
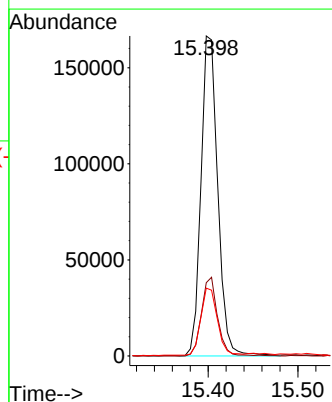
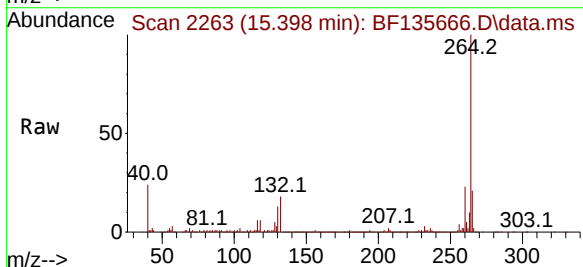
Manual Integrations
APPROVED

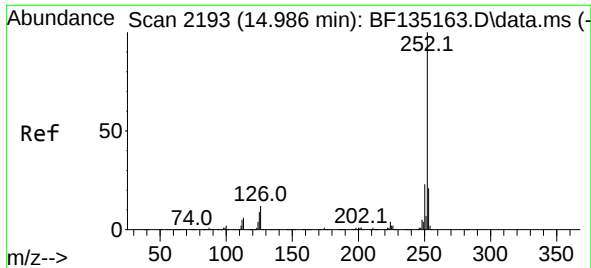
Reviewed By :Yogesh Patel 10/11/2023
Supervised By :mohammad ahmed 10/11/2023



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.398 min Scan# 2263
Delta R.T. 0.012 min
Lab File: BF135666.D
Acq: 09 Oct 2023 23:14

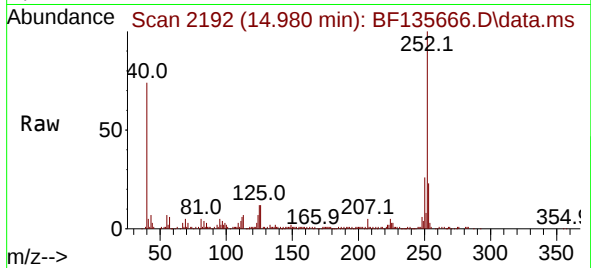
Tgt Ion:264 Resp: 216582
Ion Ratio Lower Upper
264 100
260 22.9 19.8 29.6
265 21.2 17.0 25.4





#88
Benzo(b)fluoranthene
Concen: 6.875 ng m
RT: 14.980 min Scan# 2193
Delta R.T. 0.018 min
Lab File: BF135666.D
Acq: 09 Oct 2023 23:14

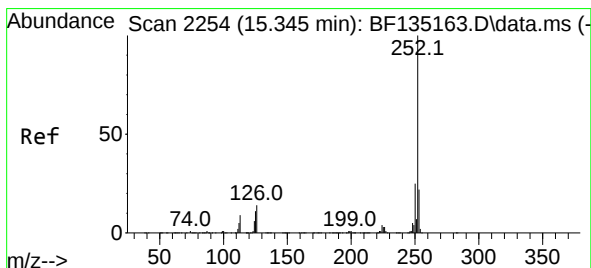
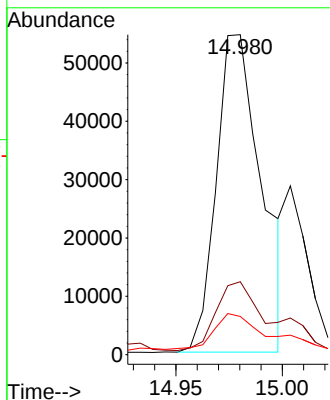
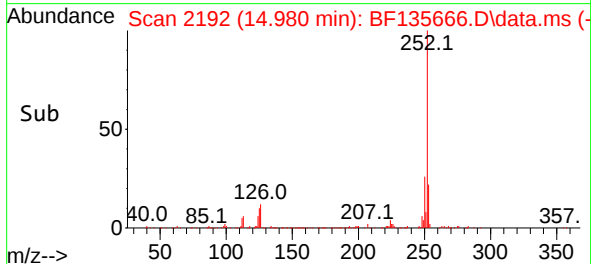
Instrument :
BNA_F
ClientSampleId :
SOIL-3



Tgt Ion:252 Resp: 80610
Ion Ratio Lower Upper
252 100
253 22.8 17.2 25.8
125 12.0 7.1 10.7

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/11/2023
Supervised By :mohammad ahmed 10/11/2023



#90
Benzo(a)pyrene
Concen: 4.405 ng
RT: 15.345 min Scan# 2254
Delta R.T. 0.018 min
Lab File: BF135666.D
Acq: 09 Oct 2023 23:14

Tgt Ion:252 Resp: 49254
Ion Ratio Lower Upper
252 100
253 23.7 17.5 26.3
125 12.0 9.2 13.8

