

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF072922\
 Data File : BF129440.D
 Acq On : 29 Jul 2022 14:02
 Operator : CG\JU
 Sample : N3964-05
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 HMGP-SOIL-C

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 08/01/2022
 Supervised By : Jagrut Upadhyay 08/01/2022

Quant Time: Jul 29 18:21:08 2022
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF072522.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jul 25 17:24:17 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.881	152	182691	20.000	ng	0.00
21) Naphthalene-d8	8.169	136	727818	20.000	ng	0.00
39) Acenaphthene-d10	9.928	164	380900	20.000	ng	0.00
64) Phenanthrene-d10	11.416	188	620264	20.000	ng	# 0.00
76) Chrysene-d12	14.063	240	360495	20.000	ng	0.00
86) Perylene-d12	15.557	264	372798	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.522	112	1373182	122.442	ng	0.02
7) Phenol-d6	6.528	99	1755858	124.560	ng	0.01
23) Nitrobenzene-d5	7.451	82	1099709	82.482	ng	0.00
42) 2,4,6-Tribromophenol	10.722	330	453542	123.849	ng	0.00
45) 2-Fluorobiphenyl	9.245	172	1826407	74.176	ng	0.00
79) Terphenyl-d14	13.004	244	1584085	82.900	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.192	128	1475840	39.912	ng	100
37) 2-Methylnaphthalene	8.881	142	196644	8.183	ng	98
38) 1-Methylnaphthalene	8.981	142	209844	9.046	ng	97
46) 1,1'-Biphenyl	9.345	154	72730	2.616	ng	98
52) Acenaphthene	9.957	154	118521	5.314	ng	99
58) Fluorene	10.475	166	128486	5.223	ng	95
71) Phenanthrene	11.439	178	508535	15.019	ng	99
72) Anthracene	11.492	178	157395	4.730	ng	98
75) Fluoranthene	12.633	202	309274	9.015	ng	99
78) Pyrene	12.863	202	416278	13.809	ng	98
81) Benzo(a)anthracene	14.051	228	114650m	4.656	ng	
83) Chrysene	14.086	228	91851	3.958	ng	99
88) Benzo(b)fluoranthene	15.115	252	68588m	2.774	ng	
90) Benzo(a)pyrene	15.492	252	76422	3.807	ng	98

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

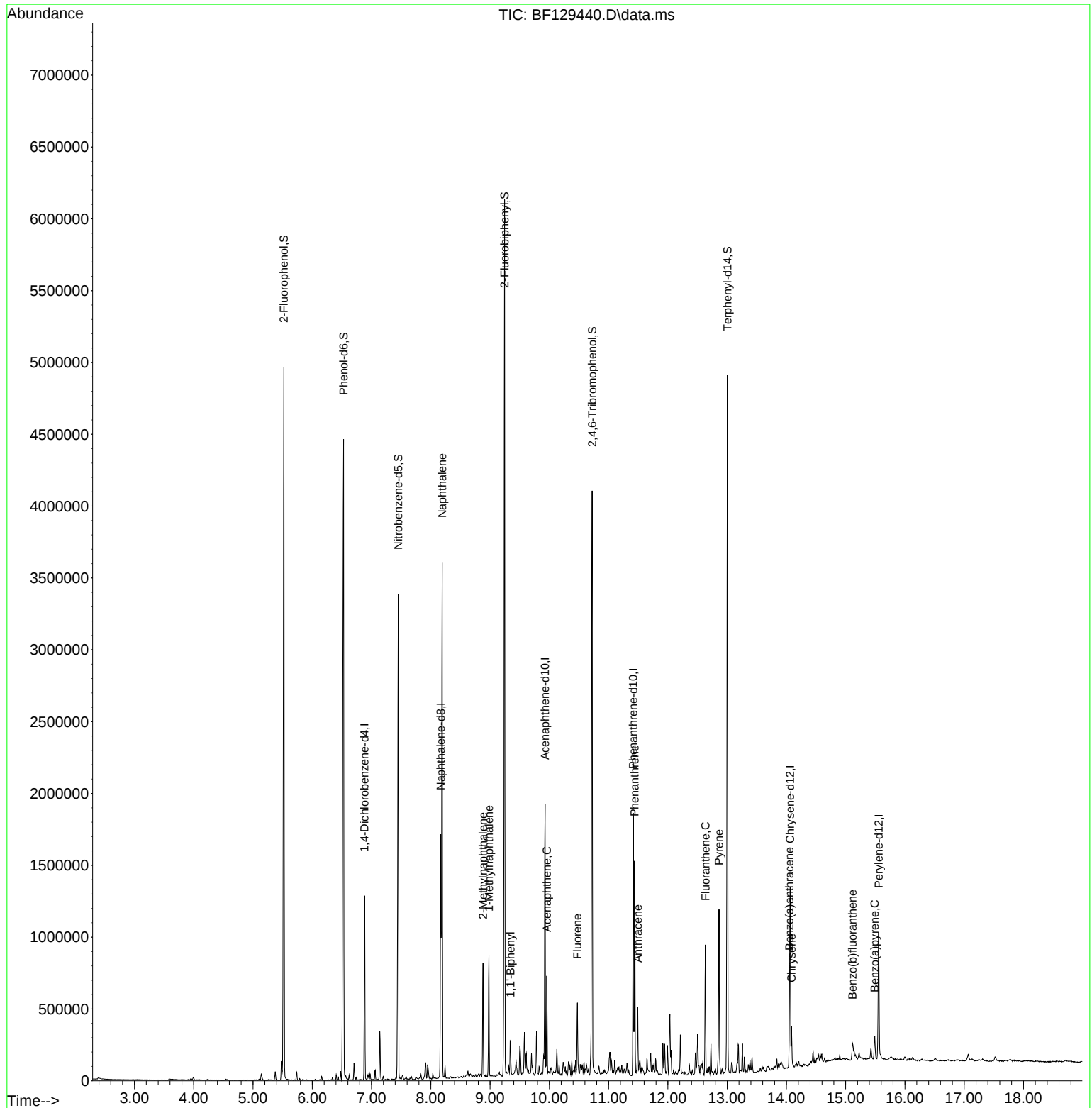
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF072922\
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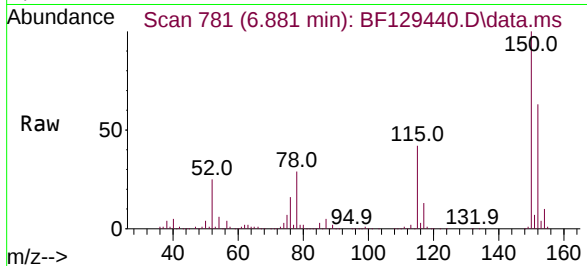
Reviewed By :Christian Giraldo 08/01/2022
Supervised By :Jagrut Upadhyay 08/01/2022





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.881 min Scan# 782
Delta R.T. -0.005 min
Lab File: BF129440.D
Acq: 29 Jul 2022 14:02

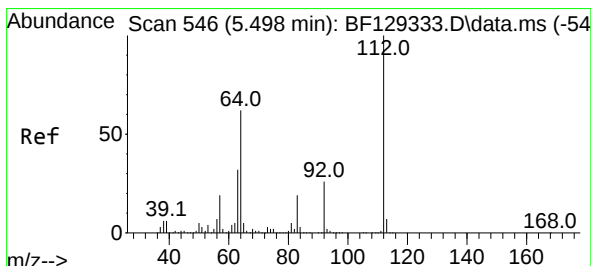
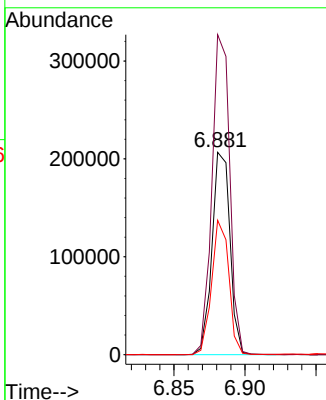
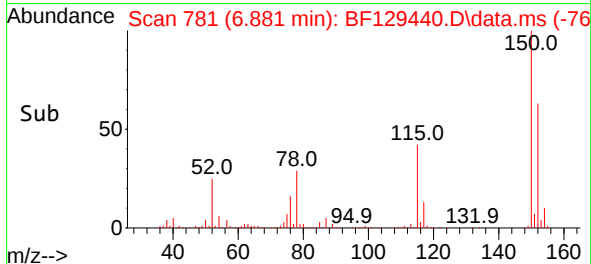
Instrument :
BNA_F
ClientSampleId :
HMGP-SOIL-C



Tgt Ion:152 Resp: 182691
Ion Ratio Lower Upper
152 100
150 158.2 123.7 185.5
115 66.4 49.9 74.9

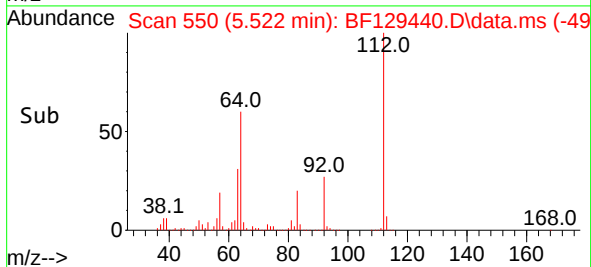
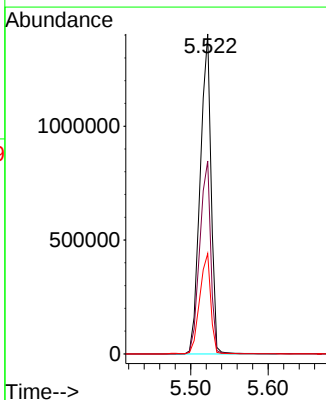
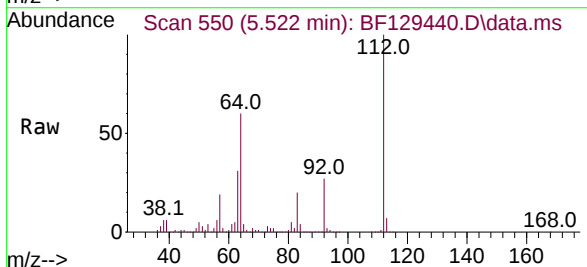
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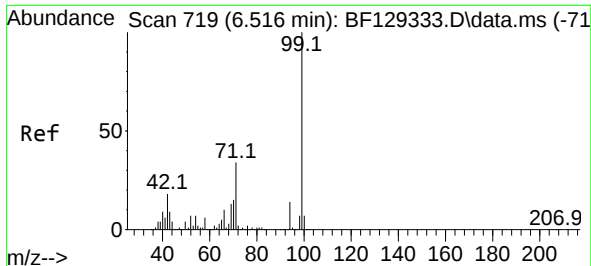
Reviewed By :Christian Giraldo 08/01/2022
Supervised By :Jagrut Upadhyay 08/01/2022



#5
2-Fluorophenol
Concen: 122.442 ng
RT: 5.522 min Scan# 550
Delta R.T. 0.024 min
Lab File: BF129440.D
Acq: 29 Jul 2022 14:02

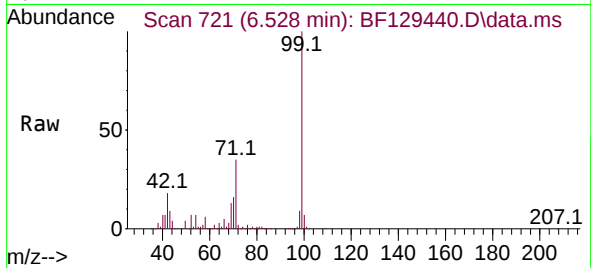
Tgt Ion:112 Resp: 1373182
Ion Ratio Lower Upper
112 100
64 60.3 53.3 79.9
63 31.3 28.0 42.0





#7
Phenol-d6
Concen: 124.560 ng
RT: 6.528 min Scan# 719
Delta R.T. 0.012 min
Lab File: BF129440.D
Acq: 29 Jul 2022 14:02

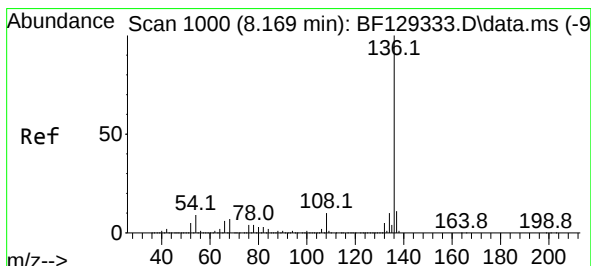
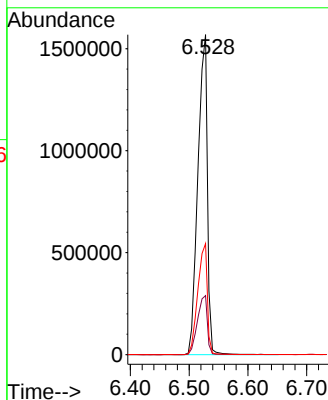
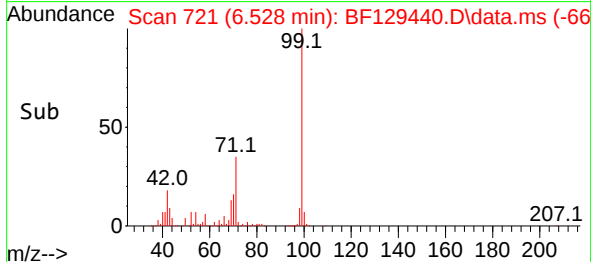
Instrument :
BNA_F
ClientSampleId :
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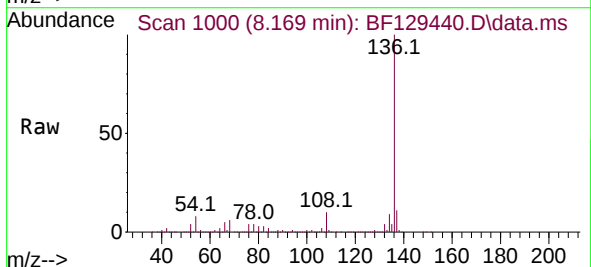
Tgt Ion: 99 Resp: 1755858
Ion Ratio Lower Upper
99 100
42 18.4 17.3 25.9
71 34.7 28.9 43.3

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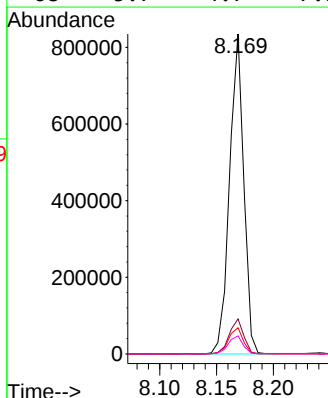
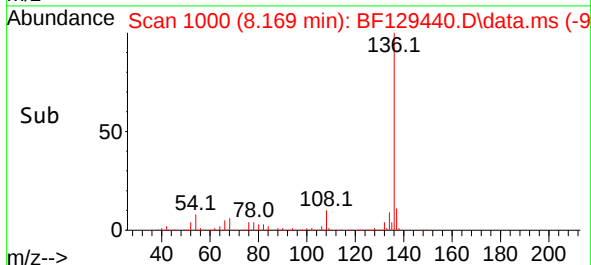
Reviewed By :Christian Giraldo 08/01/2022
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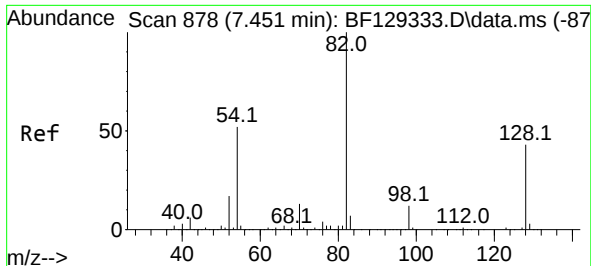


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.169 min Scan# 1000
Delta R.T. 0.000 min
Lab File: BF129440.D
Acq: 29 Jul 2022 14:02



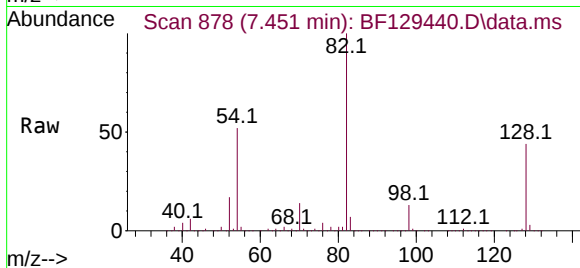
Tgt Ion:136 Resp: 727818
Ion Ratio Lower Upper
136 100
137 10.9 8.8 13.2
54 8.2 7.5 11.3
68 5.7 4.7 7.1





#23
Nitrobenzene-d5
Concen: 82.482 ng
RT: 7.451 min Scan# 81
Delta R.T. 0.000 min
Lab File: BF129440.D
Acq: 29 Jul 2022 14:02

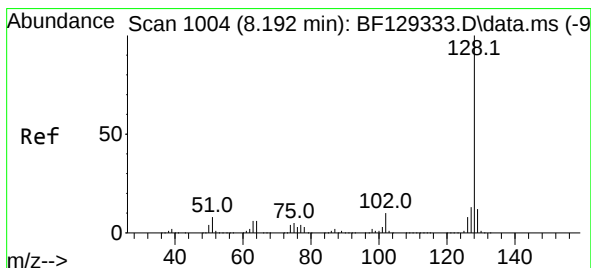
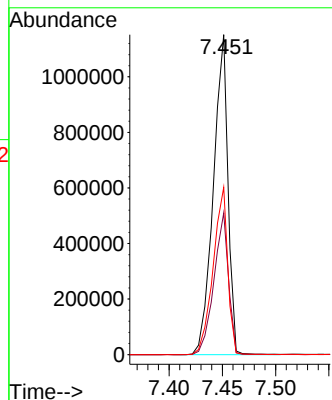
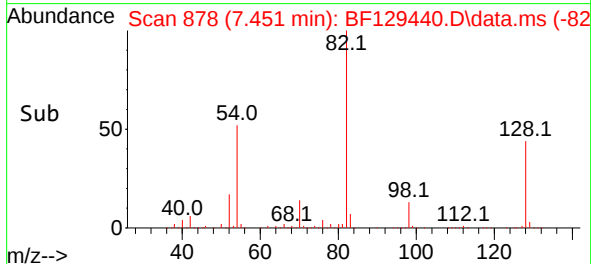
Instrument :
BNA_F
ClientSampleId :
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Tgt Ion: 82 Resp: 1099709
Ion Ratio Lower Upper
82 100
128 44.3 34.0 51.0
54 52.3 46.9 70.3

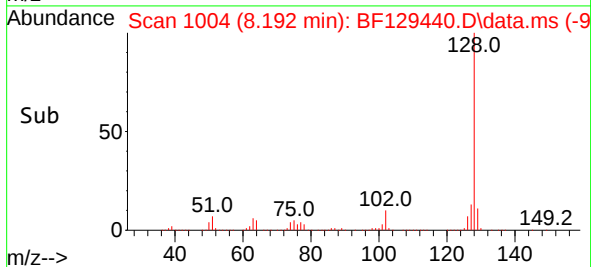
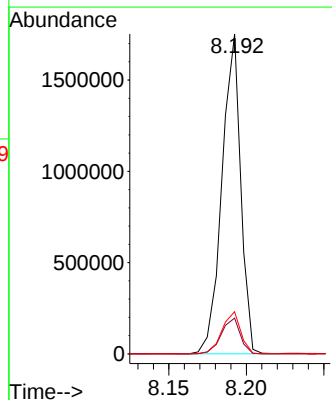
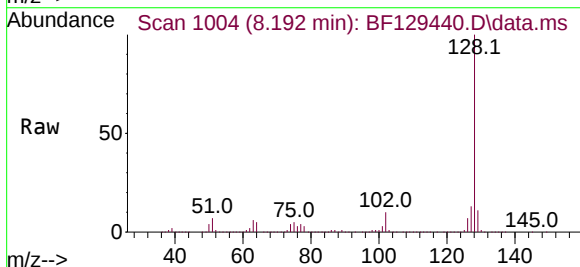
Manual Integrations
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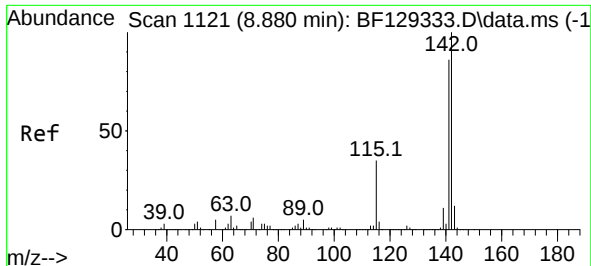
Reviewed By :Christian Giraldo 08/01/2022
Supervised By :Jagrut Upadhyay 08/01/2022



#31
Naphthalene
Concen: 39.912 ng
RT: 8.192 min Scan# 1004
Delta R.T. 0.000 min
Lab File: BF129440.D
Acq: 29 Jul 2022 14:02

Tgt Ion:128 Resp: 1475840
Ion Ratio Lower Upper
128 100
129 11.2 9.2 13.8
127 13.2 10.5 15.7





#37

2-Methylnaphthalene

Concen: 8.183 ng

RT: 8.881 min Scan# 1121

Delta R.T. 0.000 min

Lab File: BF129440.D

Acq: 29 Jul 2022 14:02

Instrument :

BNA_F

ClientSampleId :

HMGP-SOIL-C

Tgt Ion:142 Resp: 19664

Ion Ratio Lower Upper

142 100

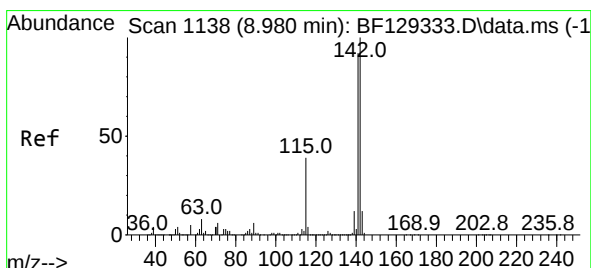
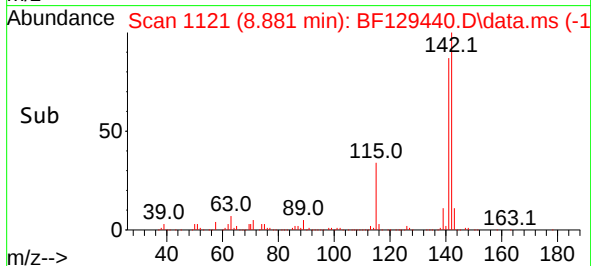
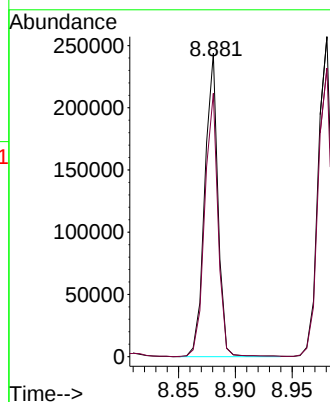
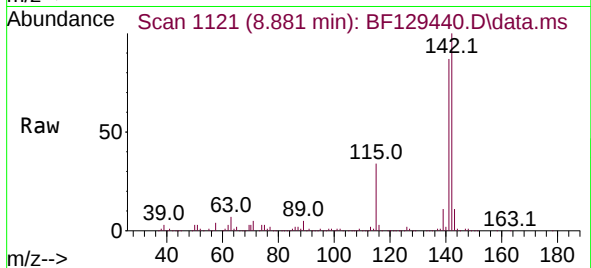
141 86.8 71.0 106.4

Manual Integrations

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Reviewed By :Christian Giraldo 08/01/2022

Supervised By :Jagrut Upadhyay 08/01/2022



#38

1-Methylnaphthalene

Concen: 9.046 ng

RT: 8.981 min Scan# 1138

Delta R.T. 0.000 min

Lab File: BF129440.D

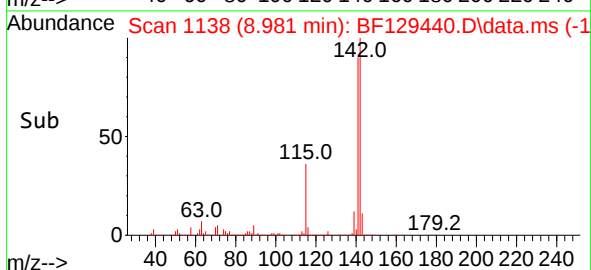
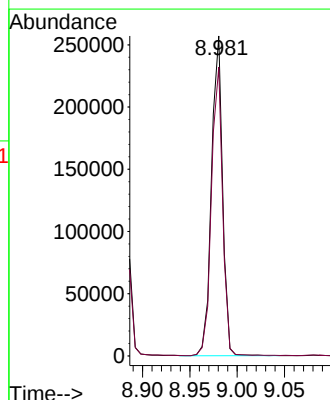
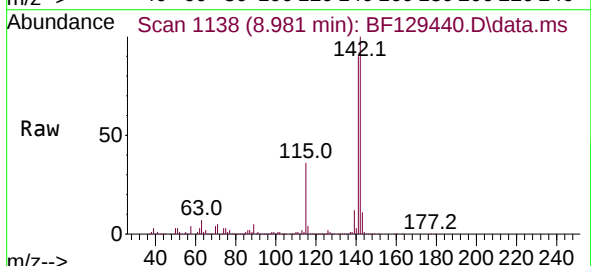
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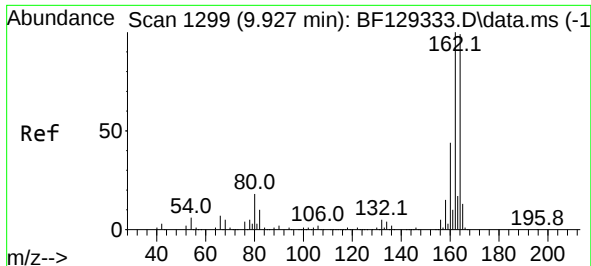
Tgt Ion:142 Resp: 209844

Ion Ratio Lower Upper

142 100

141 90.2 74.2 111.4





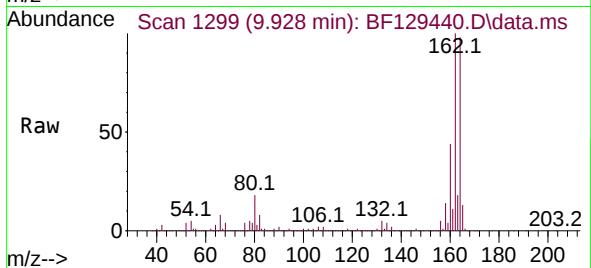
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.928 min Scan# 1299
Delta R.T. 0.000 min
Lab File: BF129440.D
Acq: 29 Jul 2022 14:02

Instrument :

BNA_F

ClientSampleId :

HMGP-SOIL-C

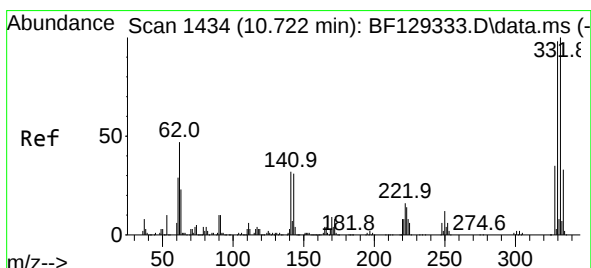
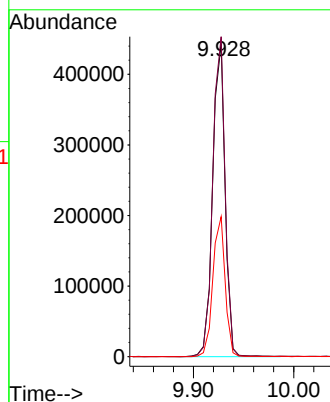
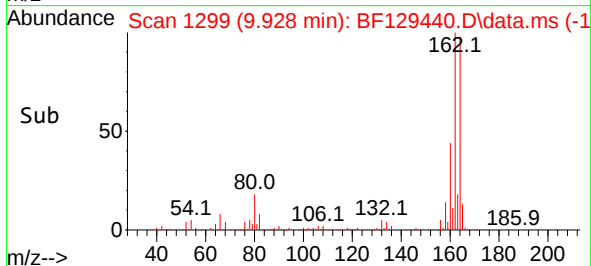


Tgt Ion:164 Resp: 380900
Ion Ratio Lower Upper
164 100
162 102.2 79.5 119.3
160 44.7 34.2 51.4

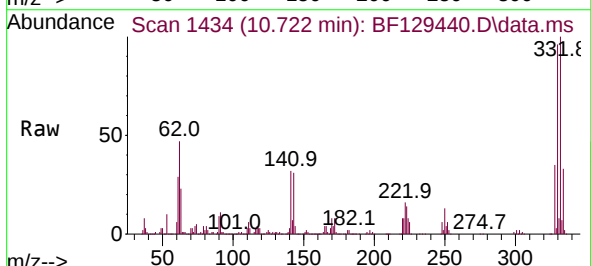
Manual Integrations

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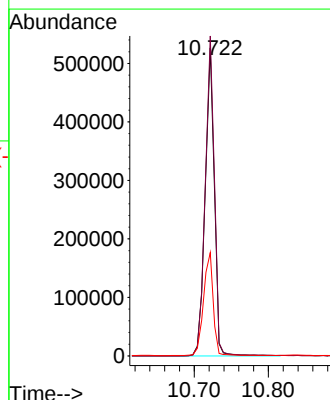
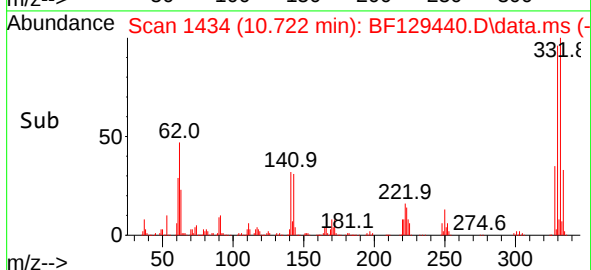
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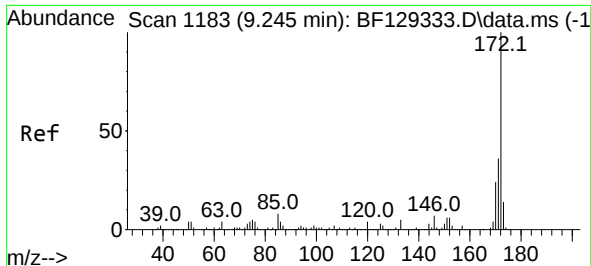


#42
2,4,6-Tribromophenol
Concen: 123.849 ng
RT: 10.722 min Scan# 1434
Delta R.T. 0.000 min
Lab File: BF129440.D
Acq: 29 Jul 2022 14:02



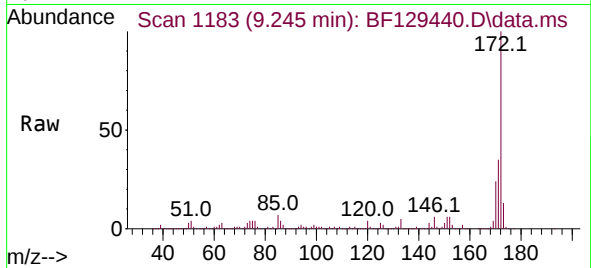
Tgt Ion:330 Resp: 453542
Ion Ratio Lower Upper
330 100
332 104.1 76.8 115.2
141 35.3 28.0 42.0





#45
2-Fluorobiphenyl
Concen: 74.176 ng
RT: 9.245 min Scan# 1183
Delta R.T. 0.000 min
Lab File: BF129440.D
Acq: 29 Jul 2022 14:02

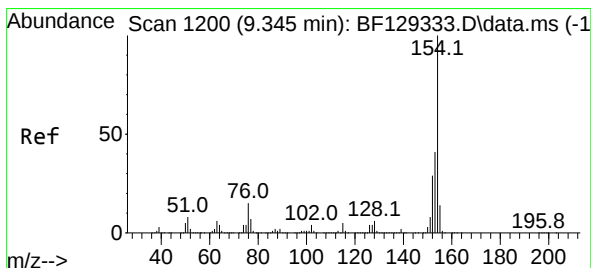
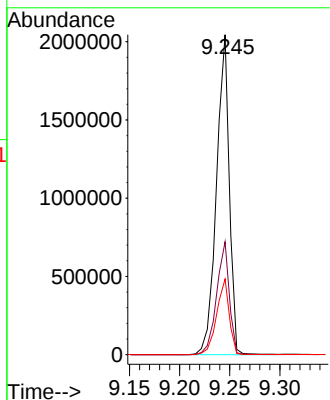
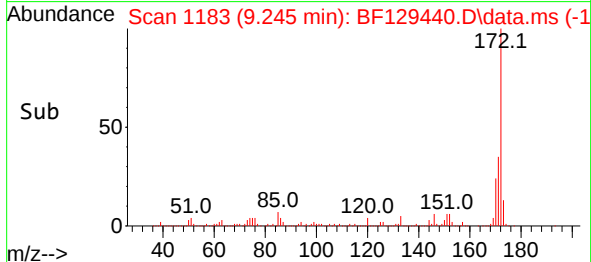
Instrument :
BNA_F
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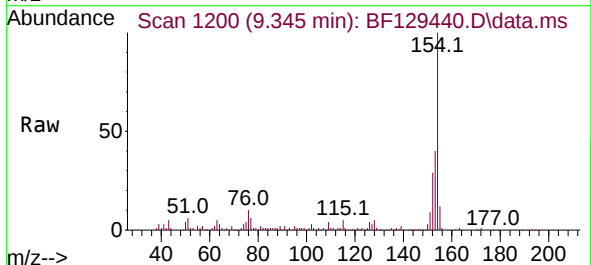
Tgt Ion:172 Resp: 182640
Ion Ratio Lower Upper
172 100
171 35.3 28.8 43.2
170 23.6 19.8 29.8

Manual Integrations
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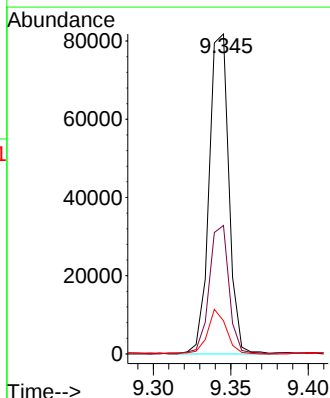
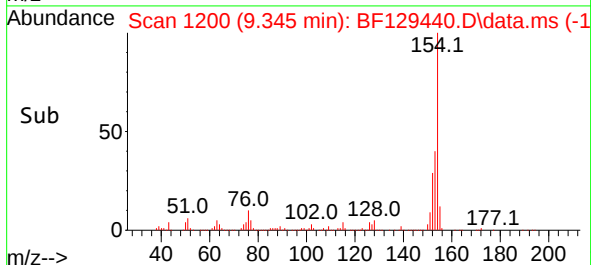
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Supervised By :Jagrut Upadhyay 08/01/2022

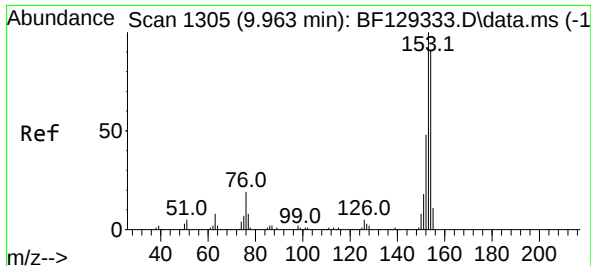


#46
1,1'-Biphenyl
Concen: 2.616 ng
RT: 9.345 min Scan# 1200
Delta R.T. 0.000 min
Lab File: BF129440.D
Acq: 29 Jul 2022 14:02



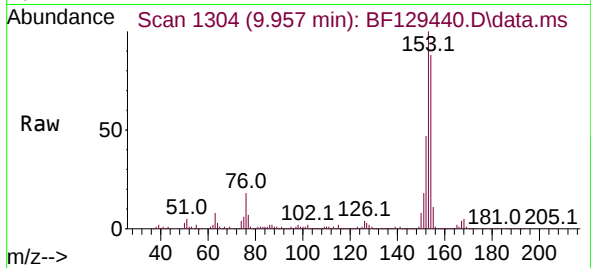
Tgt Ion:154 Resp: 72730
Ion Ratio Lower Upper
154 100
153 40.1 20.6 60.6
76 10.3 0.0 33.3





#52
Acenaphthene
Concen: 5.314 ng
RT: 9.957 min Scan# 1304
Delta R.T. -0.006 min
Lab File: BF129440.D
Acq: 29 Jul 2022 14:02

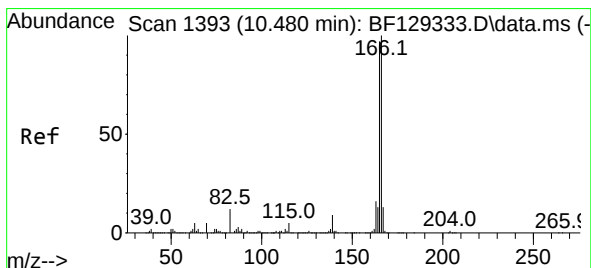
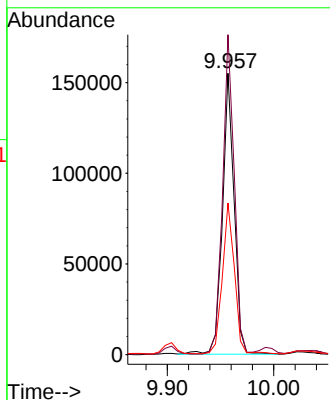
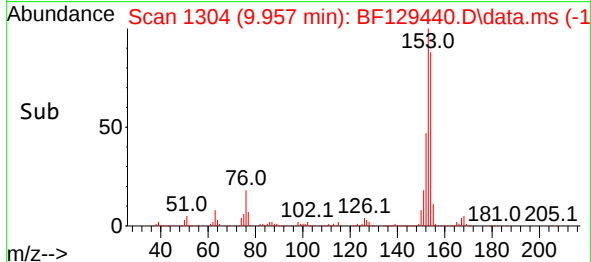
Instrument :
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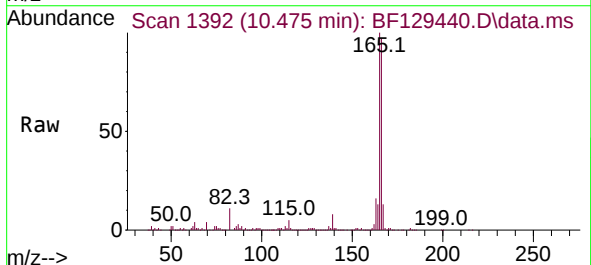
Tgt Ion:154 Resp: 11852
Ion Ratio Lower Upper
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153 113.7 89.6 134.4
152 53.9 42.4 63.6

Manual Integrations
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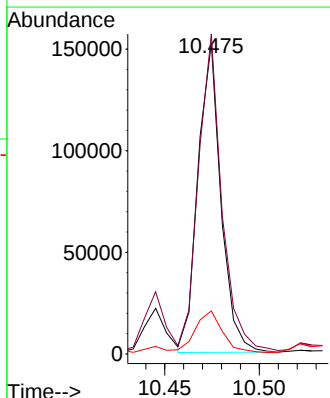
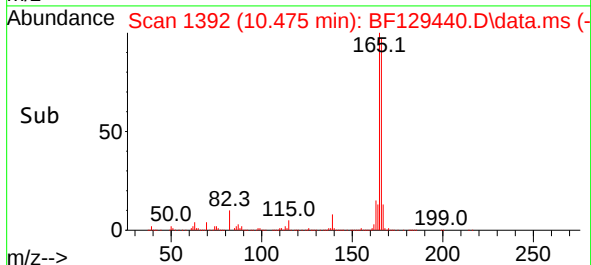
Reviewed By :Christian Giraldo 08/01/2022
Supervised By :Jagrut Upadhyay 08/01/2022

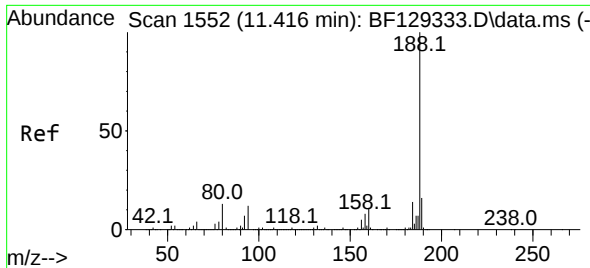


#58
Fluorene
Concen: 5.223 ng
RT: 10.475 min Scan# 1392
Delta R.T. -0.006 min
Lab File: BF129440.D
Acq: 29 Jul 2022 14:02



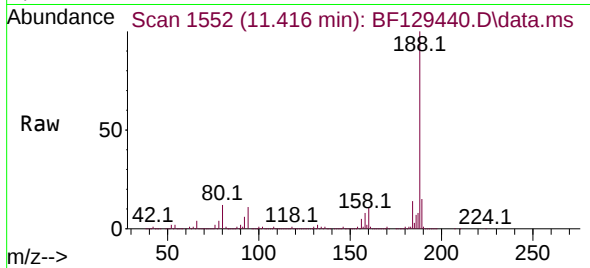
Tgt Ion:166 Resp: 128486
Ion Ratio Lower Upper
166 100
165 103.0 78.1 117.1
167 13.9 10.5 15.7





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.416 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF129440.D
Acq: 29 Jul 2022 14:02

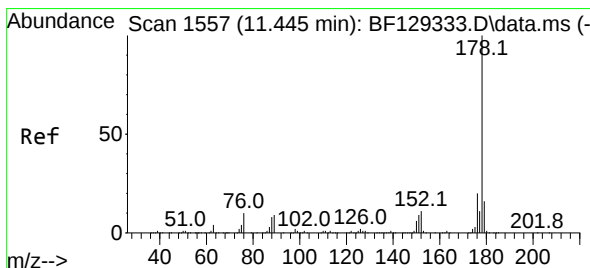
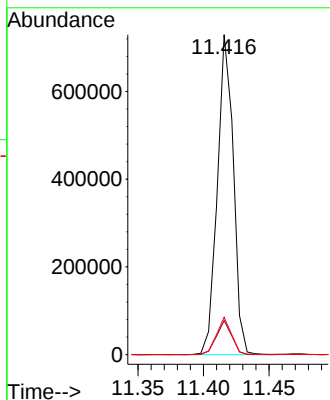
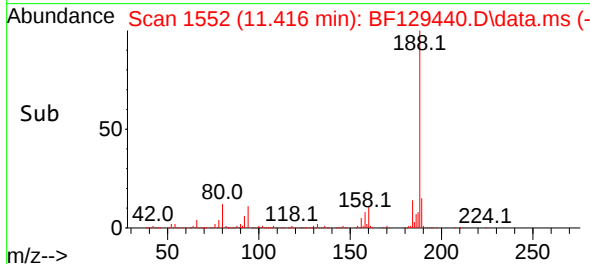
Instrument :
BNA_F
ClientSampleId :
HMGP-SOIL-C



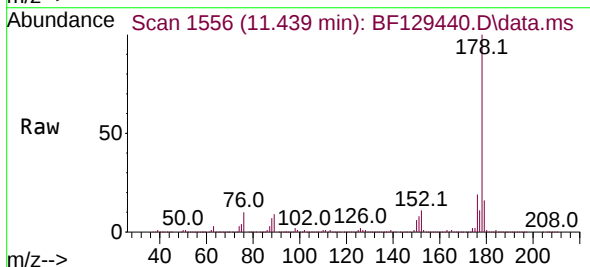
Tgt Ion:188 Resp: 620264
Ion Ratio Lower Upper
188 100
94 10.7 7.0 10.6
80 11.7 7.6 11.4

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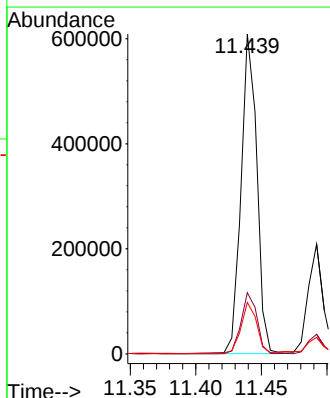
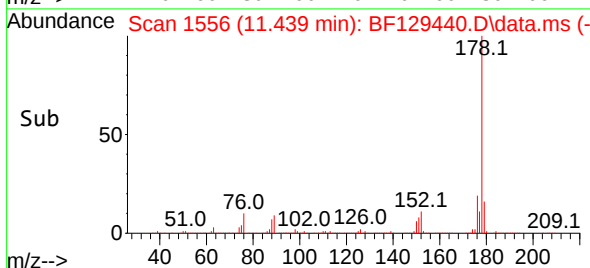
Reviewed By :Christian Giraldo 08/01/2022
Supervised By :Jagrut Upadhyay 08/01/2022

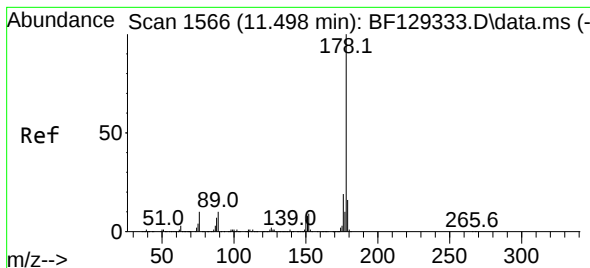


#71
Phenanthrene
Concen: 15.019 ng
RT: 11.439 min Scan# 1556
Delta R.T. -0.006 min
Lab File: BF129440.D
Acq: 29 Jul 2022 14:02



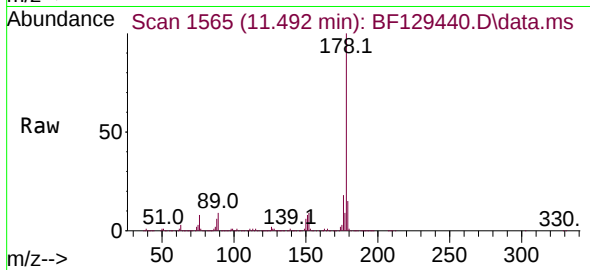
Tgt Ion:178 Resp: 508535
Ion Ratio Lower Upper
178 100
176 19.1 16.0 24.0
179 16.1 12.6 19.0





#72
 Anthracene
 Concen: 4.730 ng
 RT: 11.492 min Scan# 11
 Delta R.T. -0.006 min
 Lab File: BF129440.D
 Acq: 29 Jul 2022 14:02

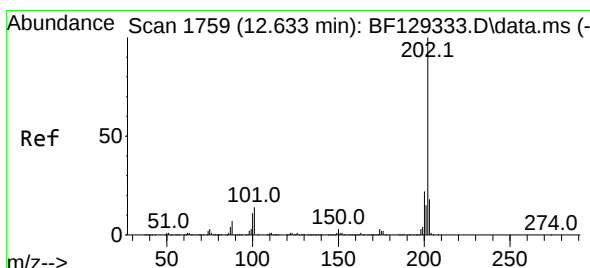
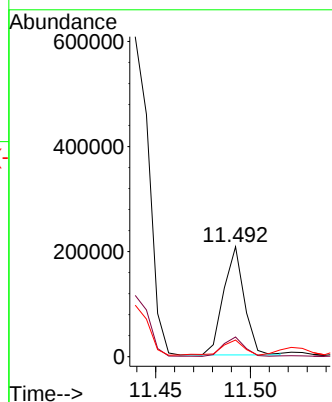
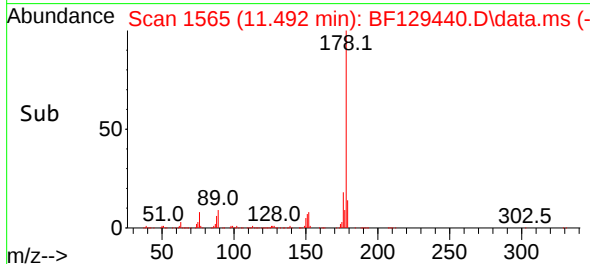
Instrument :
 BNA_F
 ClientSampleId :
 HMGP-SOIL-C



Tgt Ion:178 Resp: 157395
 Ion Ratio Lower Upper
 178 100
 176 17.8 15.4 23.2
 179 15.1 12.6 19.0

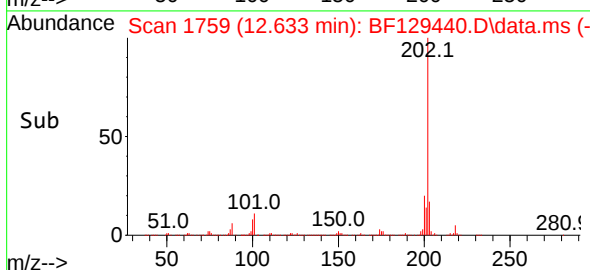
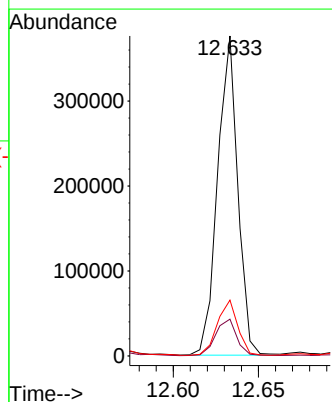
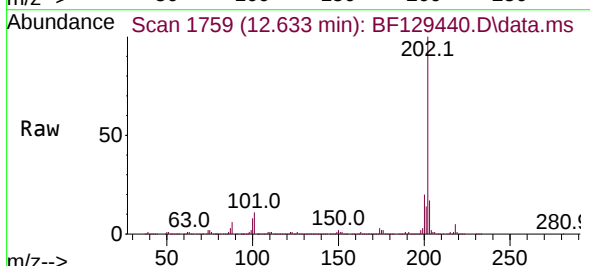
Manual Integrations
 APPROVED

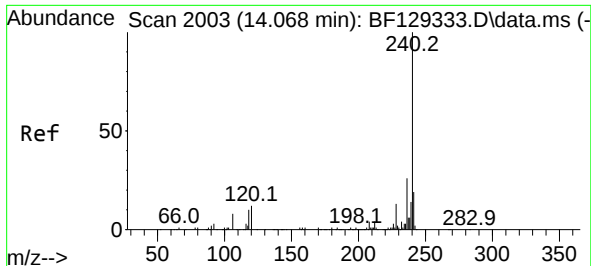
Reviewed By :Christian Giraldo 08/01/2022
 Supervised By :Jagrut Upadhyay 08/01/2022



#75
 Fluoranthene
 Concen: 9.015 ng
 RT: 12.633 min Scan# 1759
 Delta R.T. 0.000 min
 Lab File: BF129440.D
 Acq: 29 Jul 2022 14:02

Tgt Ion:202 Resp: 309274
 Ion Ratio Lower Upper
 202 100
 101 11.5 0.0 31.4
 203 17.4 0.0 38.0





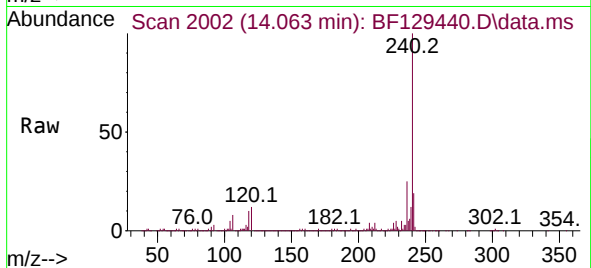
#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.063 min Scan# 2003
Delta R.T. -0.006 min
Lab File: BF129440.D
Acq: 29 Jul 2022 14:02

Instrument :

BNA_F

ClientSampleId :

HMGP-SOIL-C

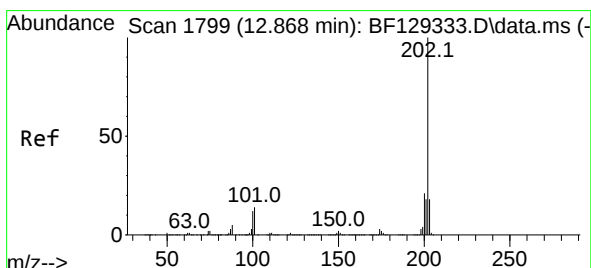
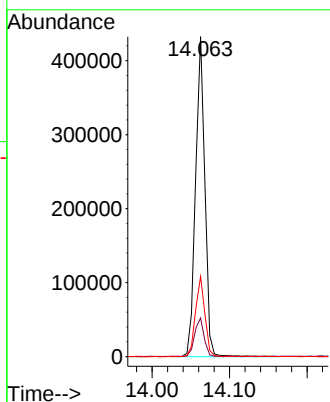
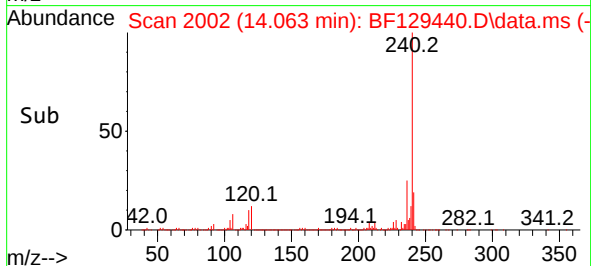


Tgt Ion:240 Resp: 360495
Ion Ratio Lower Upper
240 100
120 12.1 8.9 13.3
236 25.1 20.8 31.2

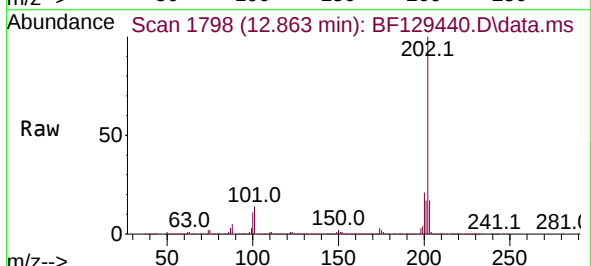
Manual Integrations

APPROVED

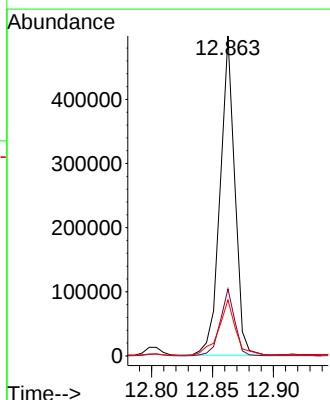
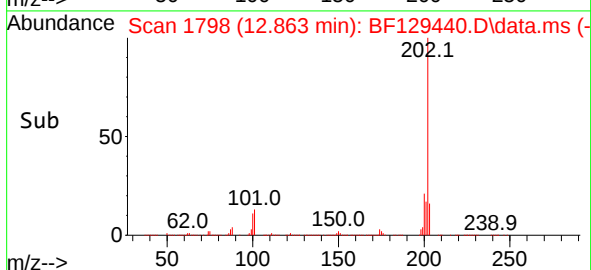
Reviewed By :Christian Giraldo 08/01/2022
Supervised By :Jagrut Upadhyay 08/01/2022

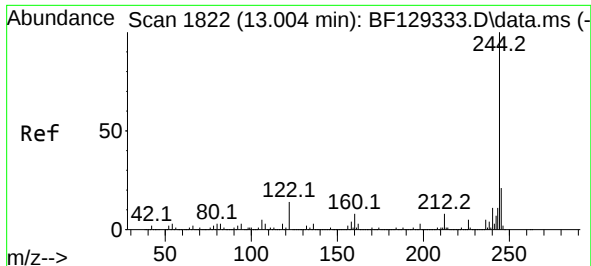


#78
Pyrene
Concen: 13.809 ng
RT: 12.863 min Scan# 1798
Delta R.T. -0.006 min
Lab File: BF129440.D
Acq: 29 Jul 2022 14:02



Tgt Ion:202 Resp: 416278
Ion Ratio Lower Upper
202 100
200 20.9 17.7 26.5
203 17.5 14.6 21.8





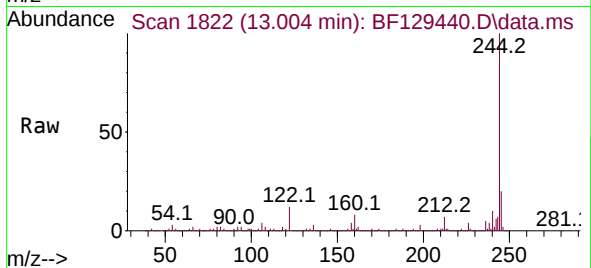
#79
 Terphenyl-d14
 Concen: 82.900 ng
 RT: 13.004 min Scan# 1822
 Delta R.T. 0.000 min
 Lab File: BF129440.D
 Acq: 29 Jul 2022 14:02

Instrument :

BNA_F

ClientSampleId :

HMGP-SOIL-C

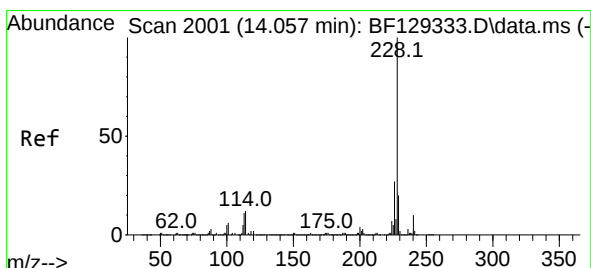
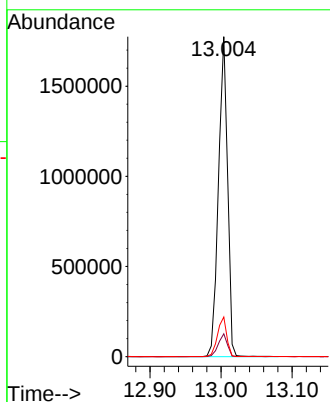
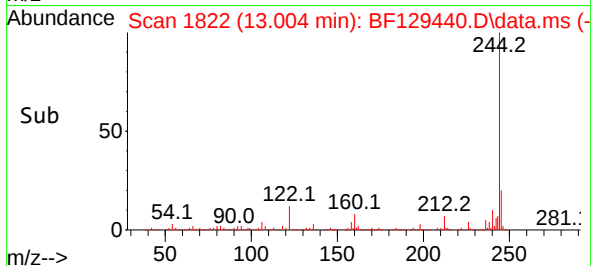


Tgt Ion:244 Resp: 1584085
 Ion Ratio Lower Upper
 244 100
 212 7.1 6.1 9.1
 122 12.4 8.8 13.2

Manual Integrations

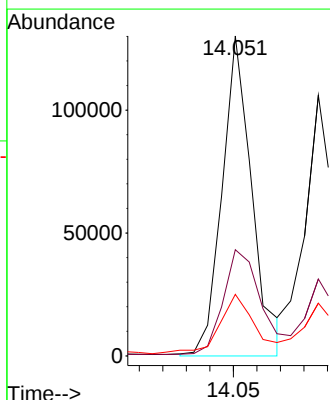
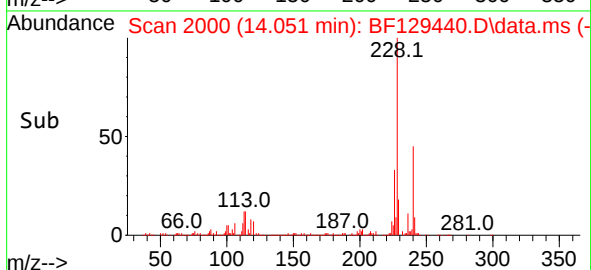
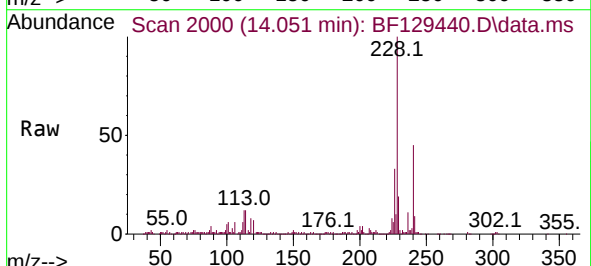
APPROVED

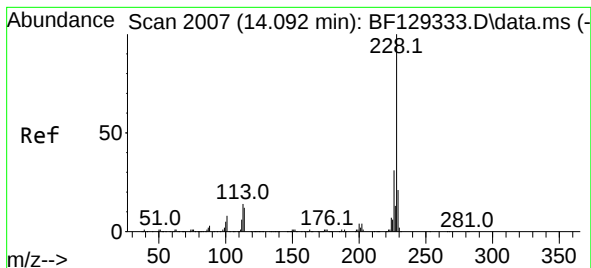
Reviewed By :Christian Giraldo 08/01/2022
 Supervised By :Jagrut Upadhyay 08/01/2022



#81
 Benzo(a)anthracene
 Concen: 4.656 ng m
 RT: 14.051 min Scan# 2000
 Delta R.T. -0.006 min
 Lab File: BF129440.D
 Acq: 29 Jul 2022 14:02

Tgt Ion:228 Resp: 114650
 Ion Ratio Lower Upper
 228 100
 226 33.2 22.1 33.1#
 229 19.2 15.8 23.8





#83

Chrysene

Concen: 3.958 ng

RT: 14.086 min Scan# 2006

Delta R.T. -0.006 min

Lab File: BF129440.D

Acq: 29 Jul 2022 14:02

Instrument :

BNA_F

ClientSampleId :

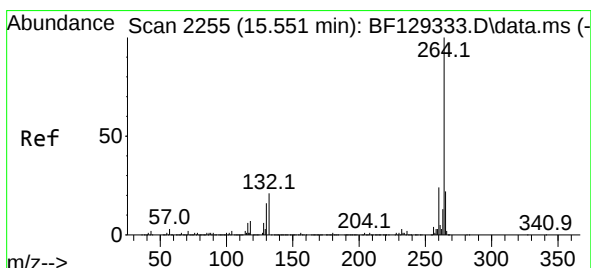
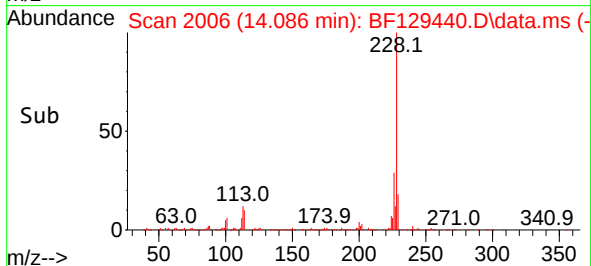
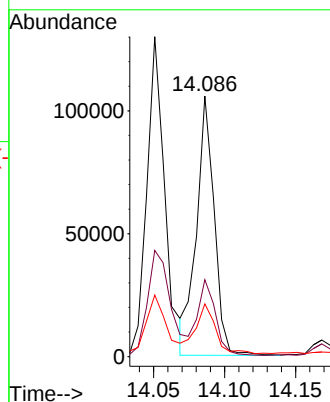
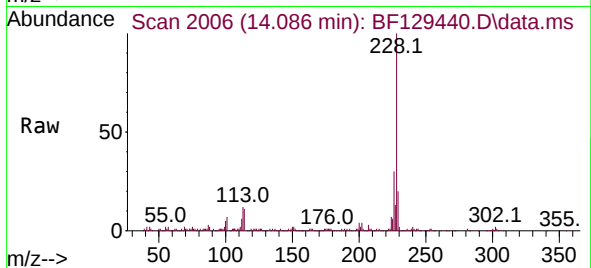
HMGP-SOIL-C

Tgt Ion:228	Resp:	9185
Ion Ratio	Lower	Upper
228	100	
226	29.5	24.3 36.5
229	20.3	15.9 23.9

Manual Integrations

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Reviewed By :Christian Giraldo 08/01/2022
Supervised By :Jagrut Upadhyay 08/01/2022



#86

Perylene-d12

Concen: 20.000 ng

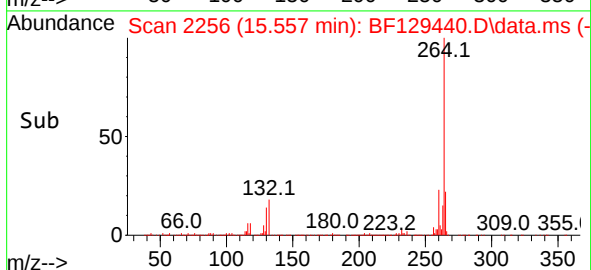
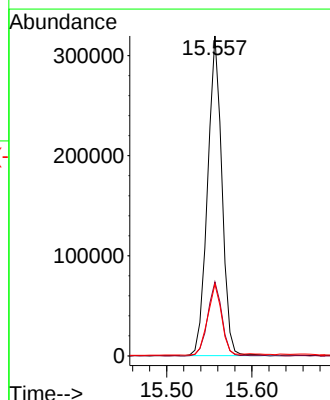
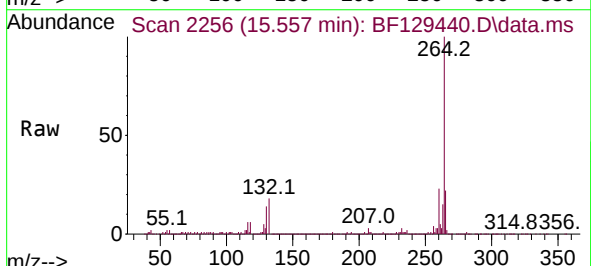
RT: 15.557 min Scan# 2256

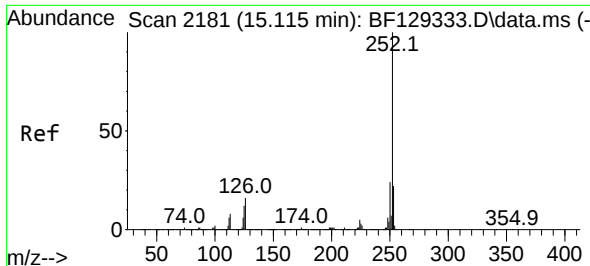
Delta R.T. 0.006 min

Lab File: BF129440.D

Acq: 29 Jul 2022 14:02

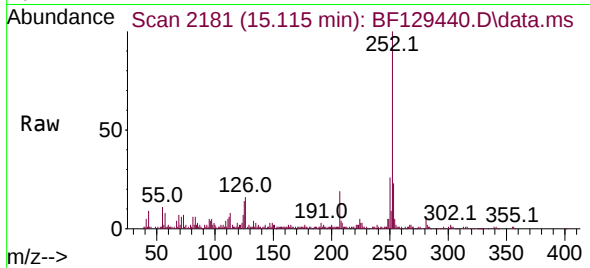
Tgt Ion:264	Resp:	372798
Ion Ratio	Lower	Upper
264	100	
260	23.1	18.4 27.6
265	22.4	17.2 25.8





#88
Benzo(b)fluoranthene
Concen: 2.774 ng m
RT: 15.115 min Scan# 2181
Delta R.T. 0.000 min
Lab File: BF129440.D
Acq: 29 Jul 2022 14:02

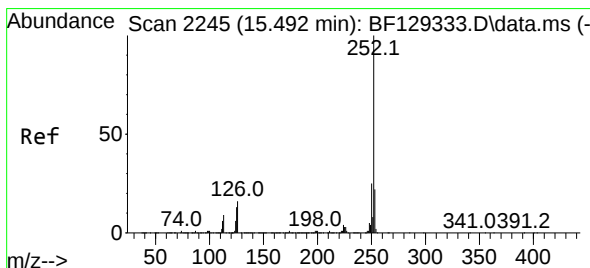
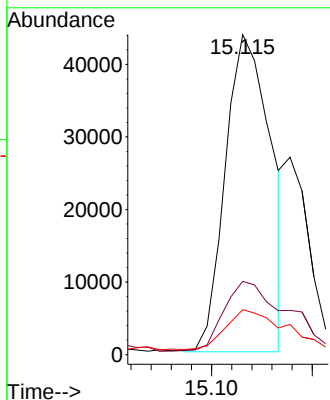
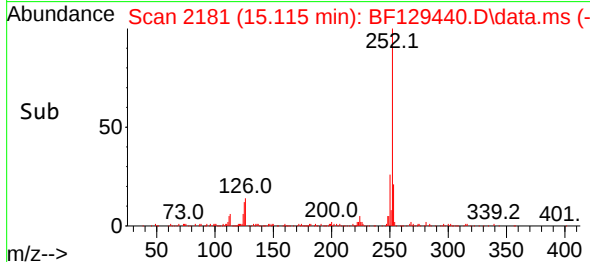
Instrument :
BNA_F
ClientSampleId :
HMGP-SOIL-C



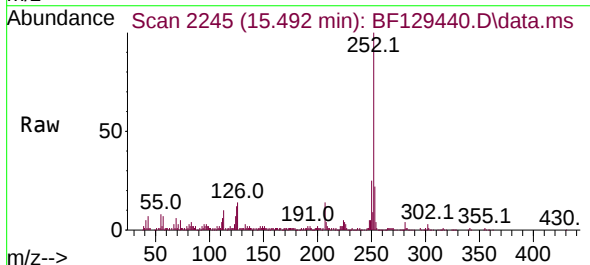
Tgt Ion:252 Resp: 68588
Ion Ratio Lower Upper
252 100
253 22.9 17.7 26.5
125 14.0 8.0 12.0

Manual Integrations
APPROVED

Reviewed By :Christian Giraldo 08/01/2022
Supervised By :Jagrut Upadhyay 08/01/2022



#90
Benzo(a)pyrene
Concen: 3.807 ng
RT: 15.492 min Scan# 2245
Delta R.T. 0.000 min
Lab File: BF129440.D
Acq: 29 Jul 2022 14:02



Tgt Ion:252 Resp: 76422
Ion Ratio Lower Upper
252 100
253 22.4 17.0 25.6
125 12.1 8.8 13.2

