

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101421\
 Data File : BF125856.D
 Acq On : 14 Oct 2021 21:23
 Operator : JU/CG
 Sample : M4195-03
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 HAR-SOILPILE

Manual Integrations
 APPROVED

mohammad
 10/18/2021 8:34:45 AM

Quant Time: Oct 15 10:43:43 2021
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF100721.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Oct 14 12:29:41 2021
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.833	152	196248	20.00	ng	-0.01
21) Naphthalene-d8	8.116	136	774760	20.00	ng	#-0.01
39) Acenaphthene-d10	9.868	164	408496	20.00	ng	-0.01
64) Phenanthrene-d10	11.351	188	546117	20.00	ng	#-0.01
76) Chrysene-d12	13.992	240	389988	20.00	ng	0.00
86) Perylene-d12	15.445	264	353134	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.451	112	1079071	89.83	ng	-0.01
7) Phenol-d6	6.463	99	1333964	86.26	ng	-0.01
23) Nitrobenzene-d5	7.392	82	798363	64.05	ng	-0.02
42) 2,4,6-Tribromophenol	10.657	330	261045	64.73	ng	-0.01
45) 2-Fluorobiphenyl	9.192	172	1460837	61.68	ng	-0.01
79) Terphenyl-d14	12.939	244	1113383	43.49	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.139	128	1600213	42.72	ng	99
37) 2-Methylnaphthalene	8.833	142	1285218	52.98	ng	100
38) 1-Methylnaphthalene	8.933	142	1517177	64.45	ng	98
46) 1,1'-Biphenyl	9.292	154	181690	6.05	ng	99
49) Acenaphthylene	9.733	152	552037	15.46	ng	# 91
52) Acenaphthene	9.904	154	511563	22.93	ng	94
55) Dibenzofuran	10.074	168	158669	4.75	ng	# 59
58) Fluorene	10.416	166	744298	30.41	ng	97
71) Phenanthrene	11.386	178	2449473	83.83	ng	95
72) Anthracene	11.427	178	784996	26.90	ng	98
75) Fluoranthene	12.580	202	1413679	53.62	ng	96
78) Pyrene	12.804	202	2363508	59.65	ng	93
81) Benzo(a)anthracene	13.980	228	863808	34.14	ng	97
83) Chrysene	14.015	228	766200	30.64	ng	95
84) Bis(2-ethylhexyl)phtha...	13.968	149	34218	2.48	ng	# 90
87) Indeno(1,2,3-cd)pyrene	16.880	276	204169	7.58	ng	95
88) Benzo(b)fluoranthene	15.021	252	611892m	30.69	ng	
89) Benzo(k)fluoranthene	15.045	252	157159m	7.68	ng	
90) Benzo(a)pyrene	15.380	252	589319	33.38	ng	98
91) Dibenzo(a,h)anthracene	16.892	278	61248	2.75	ng	# 91
92) Benzo(g,h,i)perylene	17.315	276	224759	9.90	ng	93

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

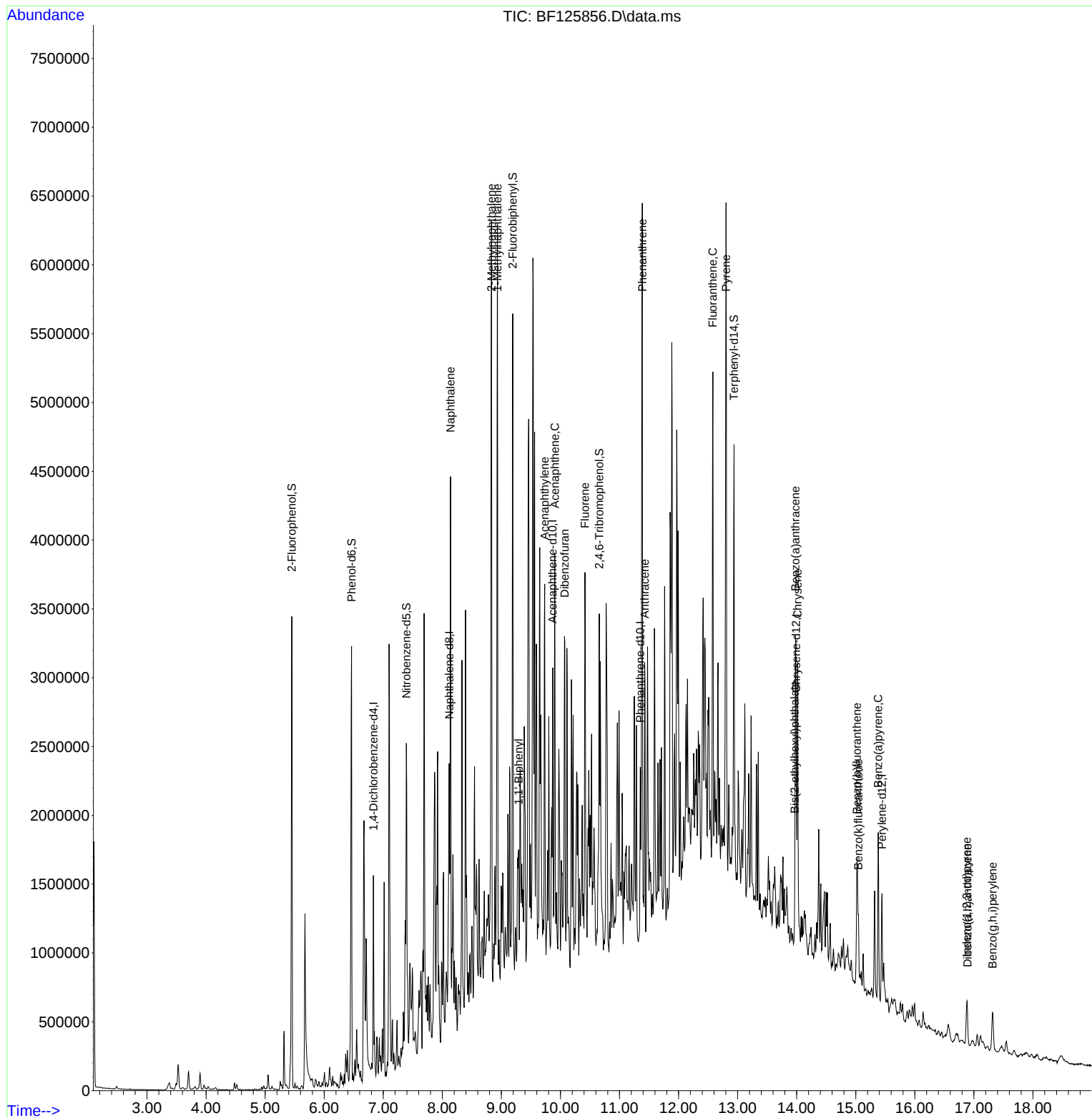
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101421\
Data File : BF125856.D
Acq On : 14 Oct 2021 21:23
Operator : JU/CG
Sample : M4195-03
Misc :
ALS Vial : 19 Sample Multiplier: 1

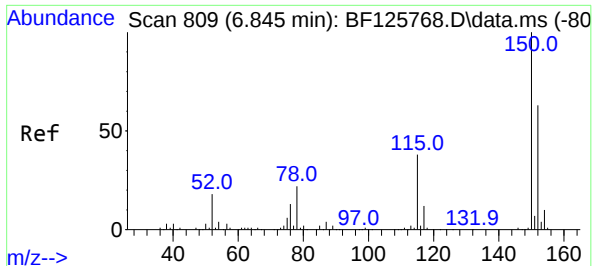
Instrument :
BNA_F
ClientSampleId :
HAR-SOILPILE

Manual Integrations
APPROVED

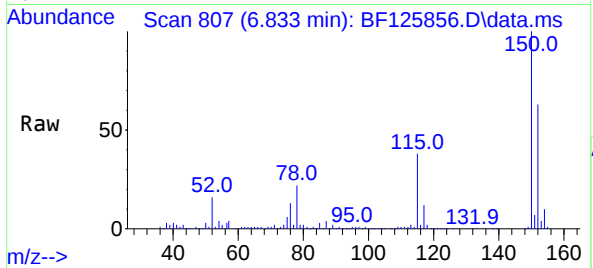
mohammad
10/18/2021 8:34:45 AM

Quant Time: Oct 15 10:43:43 2021
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF100721.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Oct 14 12:29:41 2021
Response via : Initial Calibration

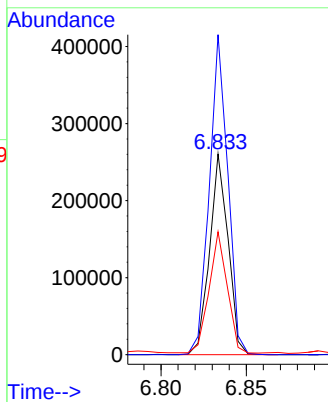
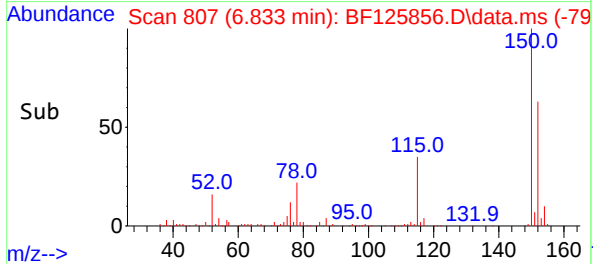




#1
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.833 min Scan# 807
Delta R.T. -0.012 min
Lab File: BF125856.D
Acq: 14 Oct 2021 21:23



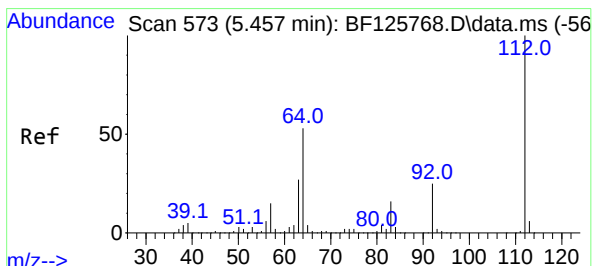
Tgt Ion:152 Resp: 196248
Ion Ratio Lower Upper
152 100
150 159.5 117.6 176.4
115 61.3 47.1 70.7



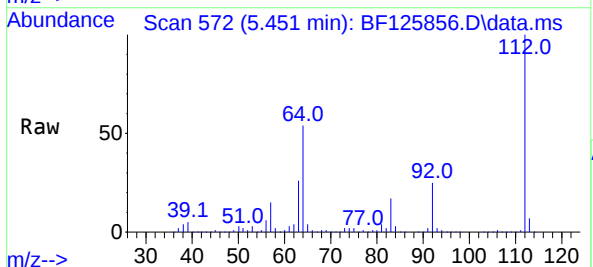
Instrument :
BNA_F
ClientSampleId :
HAR-SOILPILE

Manual Integrations
APPROVED

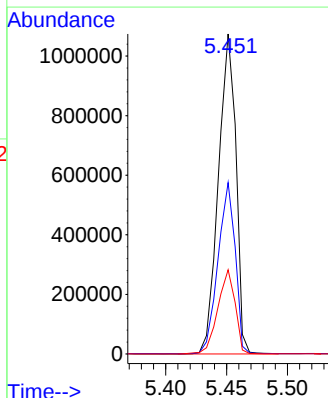
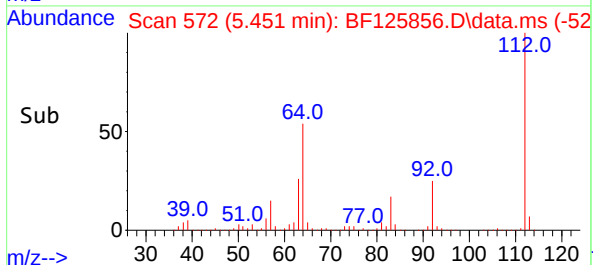
mohammad
10/18/2021 8:34:45 AM

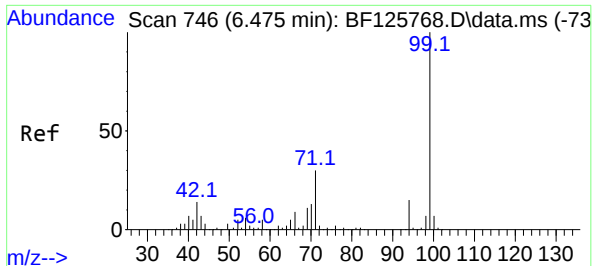


#5
2-Fluorophenol
Concen: 89.83 ng
RT: 5.451 min Scan# 572
Delta R.T. -0.012 min
Lab File: BF125856.D
Acq: 14 Oct 2021 21:23



Tgt Ion:112 Resp: 1079071
Ion Ratio Lower Upper
112 100
64 53.5 44.2 66.2
63 26.3 26.2 39.2





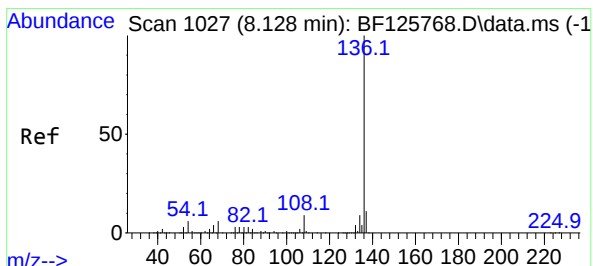
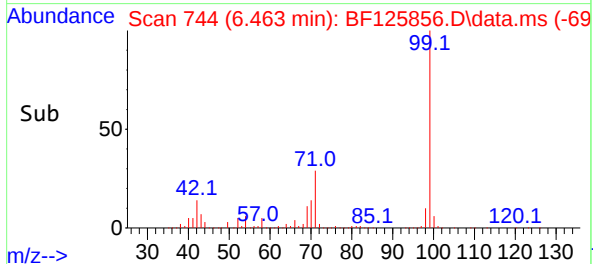
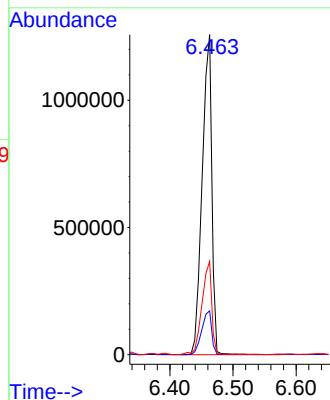
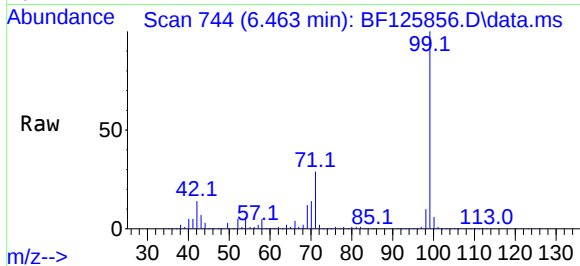
#7
Phenol-d6
Concen: 86.26 ng
RT: 6.463 min Scan# 744
Delta R.T. -0.012 min
Lab File: BF125856.D
Acq: 14 Oct 2021 21:23

Tgt Ion: 99 Resp: 1333964
Ion Ratio Lower Upper
99 100
42 13.7 23.5 35.3#
71 29.1 25.6 38.4

Instrument :
BNA_F
ClientSampleId :
HAR-SOILPILE

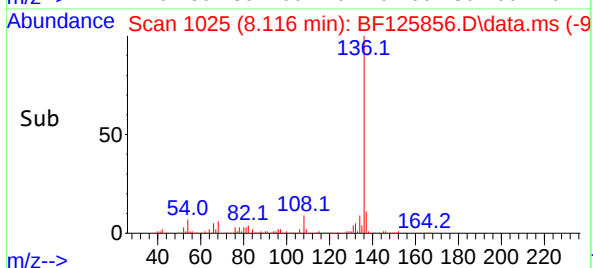
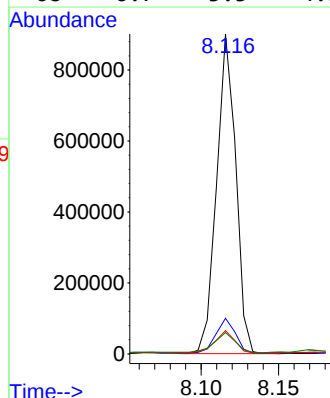
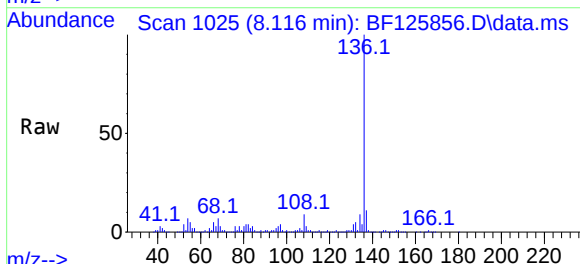
Manual Integrations
APPROVED

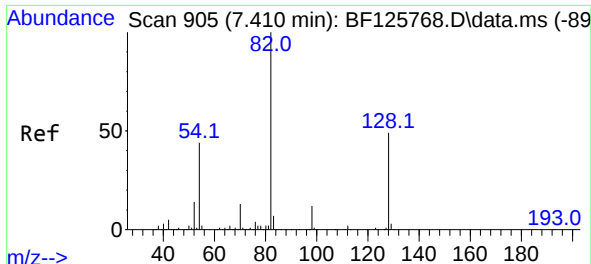
mohammad
10/18/2021 8:34:45 AM



#21
Naphthalene-d8
Concen: 20.00 ng
RT: 8.116 min Scan# 1025
Delta R.T. -0.012 min
Lab File: BF125856.D
Acq: 14 Oct 2021 21:23

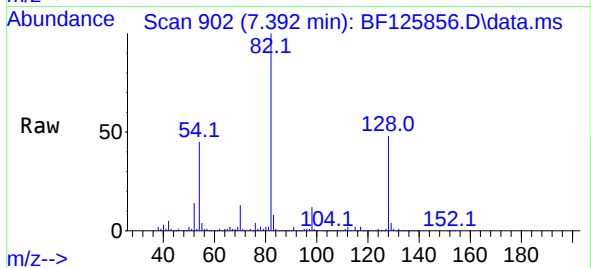
Tgt Ion:136 Resp: 774760
Ion Ratio Lower Upper
136 100
137 11.1 9.8 14.6
54 7.3 6.4 9.6
68 6.7 3.3 4.9#





#23
Nitrobenzene-d5
Concen: 64.05 ng
RT: 7.392 min Scan# 902
Delta R.T. -0.018 min
Lab File: BF125856.D
Acq: 14 Oct 2021 21:23

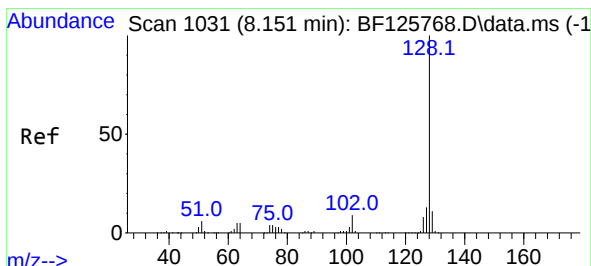
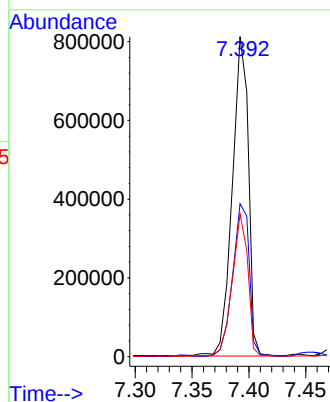
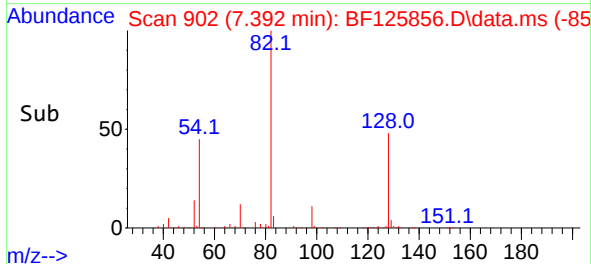
Instrument :
BNA_F
ClientSampleId :
HAR-SOILPILE



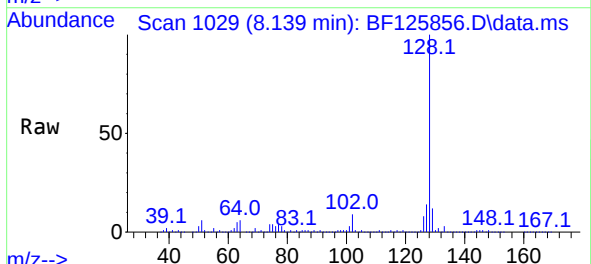
Tgt Ion: 82 Resp: 798363
Ion Ratio Lower Upper
82 100
128 47.8 40.6 60.8
54 44.6 49.6 74.4#

Manual Integrations
APPROVED

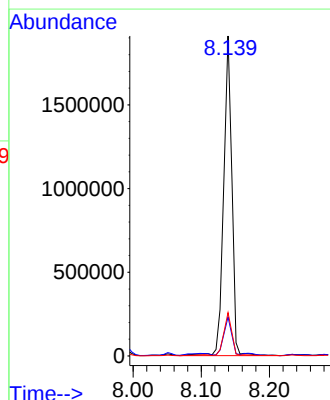
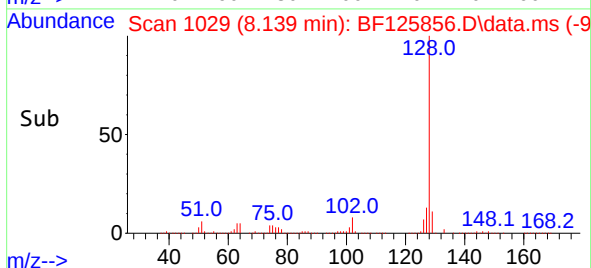
mohammad
10/18/2021 8:34:45 AM

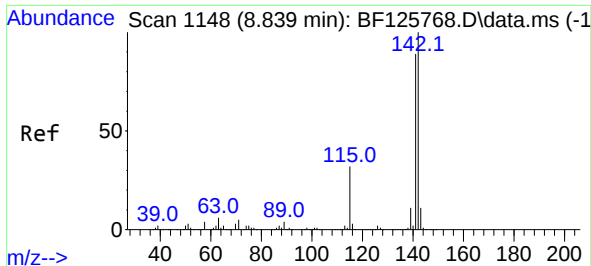


#31
Naphthalene
Concen: 42.72 ng
RT: 8.139 min Scan# 1029
Delta R.T. -0.012 min
Lab File: BF125856.D
Acq: 14 Oct 2021 21:23



Tgt Ion: 128 Resp: 1600213
Ion Ratio Lower Upper
128 100
129 12.2 9.4 14.0
127 13.5 10.9 16.3





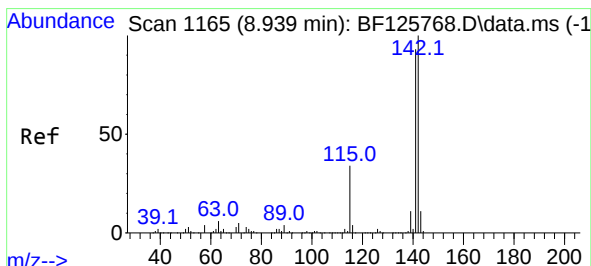
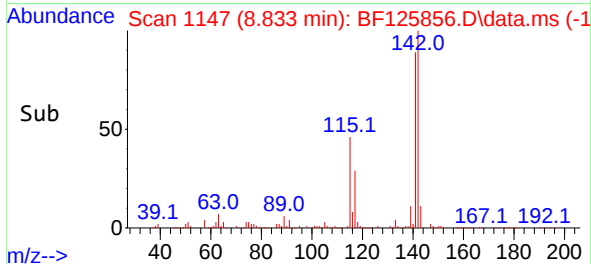
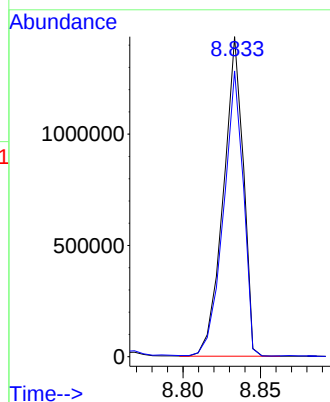
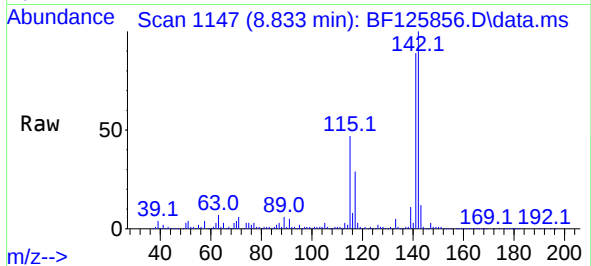
#37
2-Methylnaphthalene
Concen: 52.98 ng
RT: 8.833 min Scan# 1147
Delta R.T. -0.006 min
Lab File: BF125856.D
Acq: 14 Oct 2021 21:23

Tgt Ion:142 Resp: 1285218
Ion Ratio Lower Upper
142 100
141 89.3 71.2 106.8

Instrument :
BNA_F
ClientSampleId :
HAR-SOILPILE

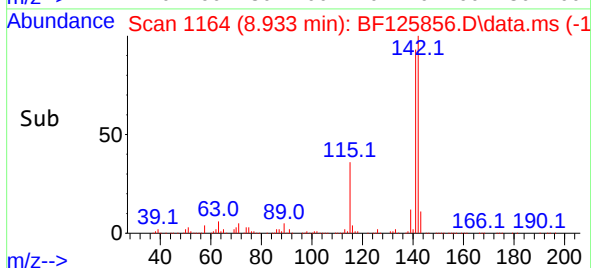
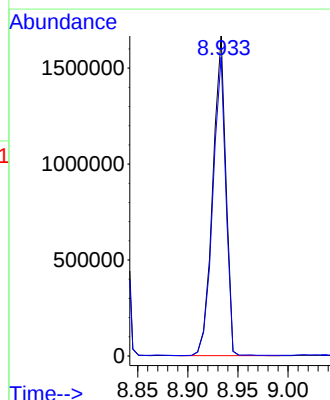
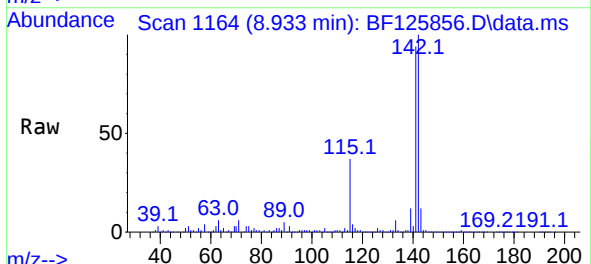
Manual Integrations
APPROVED

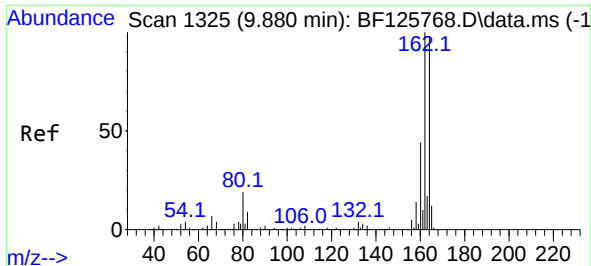
mohammad
10/18/2021 8:34:45 AM



#38
1-Methylnaphthalene
Concen: 64.45 ng
RT: 8.933 min Scan# 1164
Delta R.T. -0.006 min
Lab File: BF125856.D
Acq: 14 Oct 2021 21:23

Tgt Ion:142 Resp: 1517177
Ion Ratio Lower Upper
142 100
141 93.5 76.0 114.0





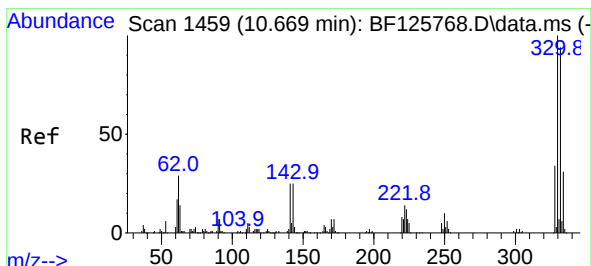
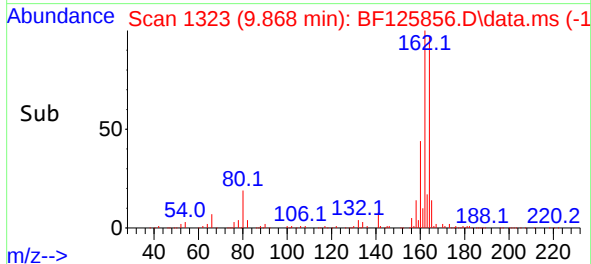
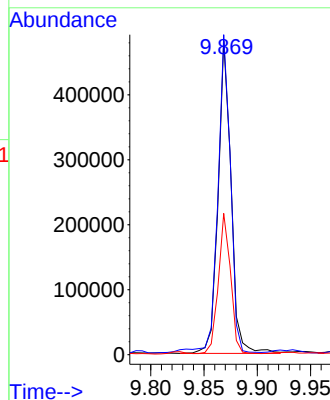
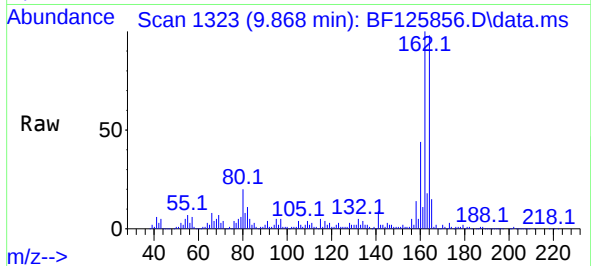
#39
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.868 min Scan# 1323
Delta R.T. -0.012 min
Lab File: BF125856.D
Acq: 14 Oct 2021 21:23

Tgt Ion:164 Resp: 408496
Ion Ratio Lower Upper
164 100
162 102.0 81.3 121.9
160 45.1 38.0 57.0

Instrument :
BNA_F
ClientSampleId :
HAR-SOILPILE

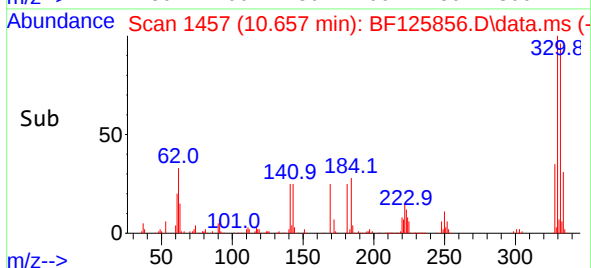
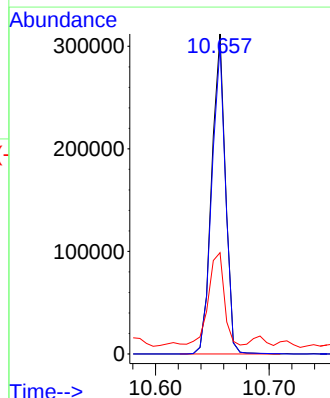
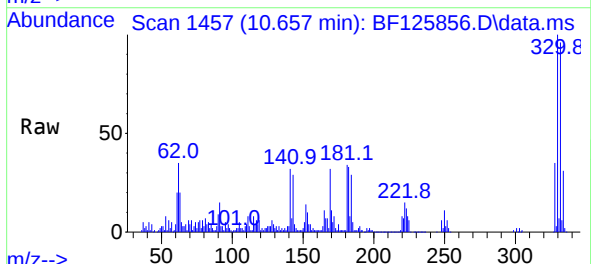
Manual Integrations
APPROVED

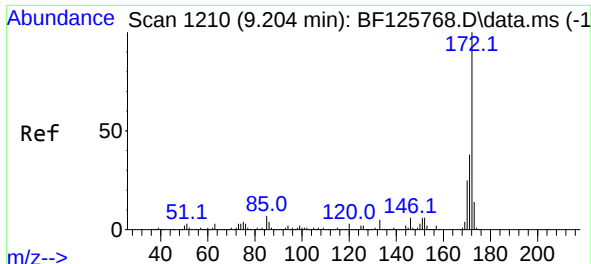
mohammad
10/18/2021 8:34:45 AM



#42
2,4,6-Tribromophenol
Concen: 64.73 ng
RT: 10.657 min Scan# 1457
Delta R.T. -0.012 min
Lab File: BF125856.D
Acq: 14 Oct 2021 21:23

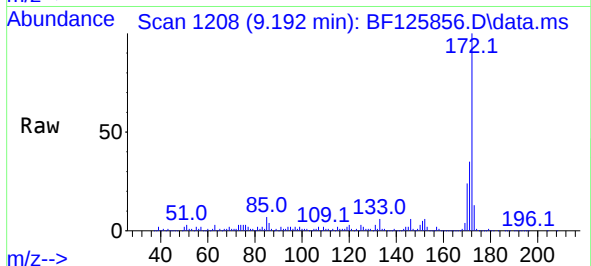
Tgt Ion:330 Resp: 261045
Ion Ratio Lower Upper
330 100
332 96.5 76.2 114.4
141 32.8 44.6 66.8#





#45
2-Fluorobiphenyl
Concen: 61.68 ng
RT: 9.192 min Scan# 1208
Delta R.T. -0.012 min
Lab File: BF125856.D
Acq: 14 Oct 2021 21:23

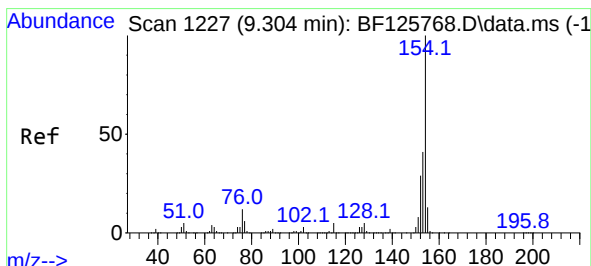
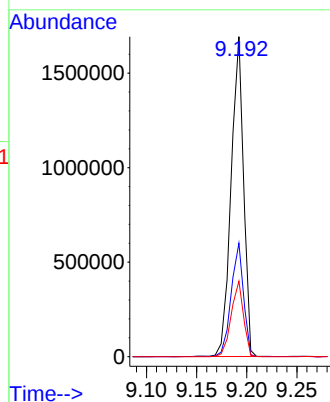
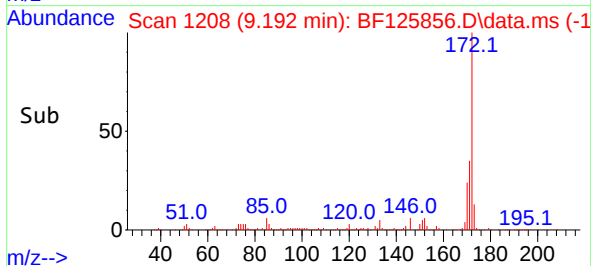
Instrument :
BNA_F
ClientSampleId :
HAR-SOILPILE



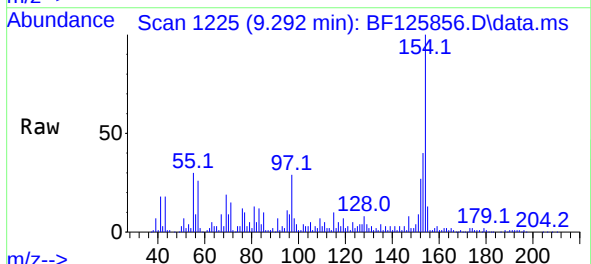
Tgt Ion:172 Resp: 1460837
Ion Ratio Lower Upper
172 100
171 35.4 26.5 39.7
170 23.6 18.8 28.2

Manual Integrations
APPROVED

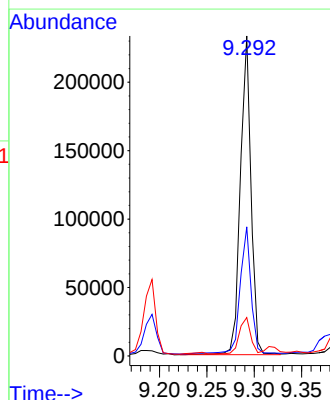
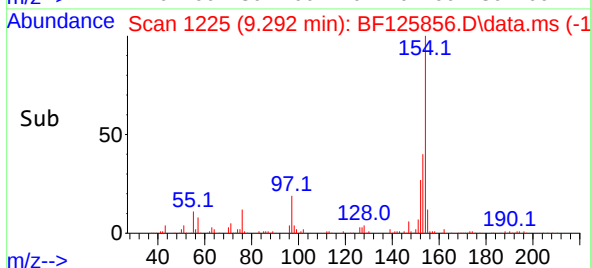
mohammad
10/18/2021 8:34:45 AM

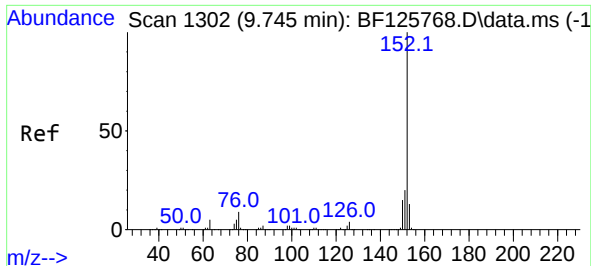


#46
1,1'-Biphenyl
Concen: 6.05 ng
RT: 9.292 min Scan# 1225
Delta R.T. -0.012 min
Lab File: BF125856.D
Acq: 14 Oct 2021 21:23



Tgt Ion:154 Resp: 181690
Ion Ratio Lower Upper
154 100
153 40.3 20.0 60.0
76 12.0 0.0 30.3





#49

Acenaphthylene

Concen: 15.46 ng

RT: 9.733 min Scan# 1300

Delta R.T. -0.012 min

Lab File: BF125856.D

Acq: 14 Oct 2021 21:23

Tgt Ion:152 Resp: 552037
Ion Ratio Lower Upper
152 100
151 20.8 15.7 23.5
153 19.3 9.8 14.8#

Instrument :

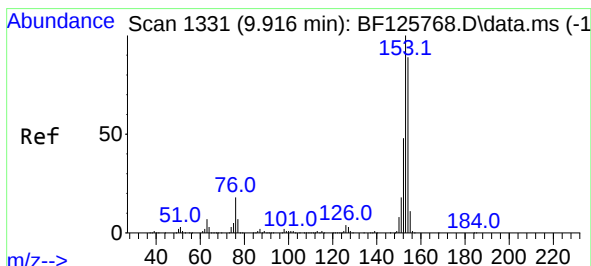
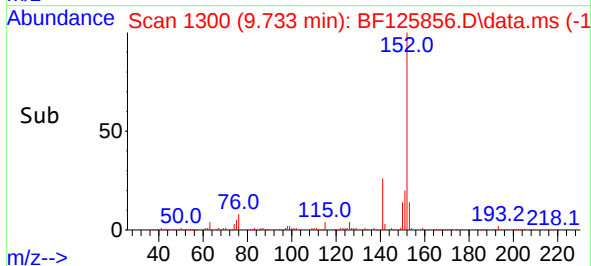
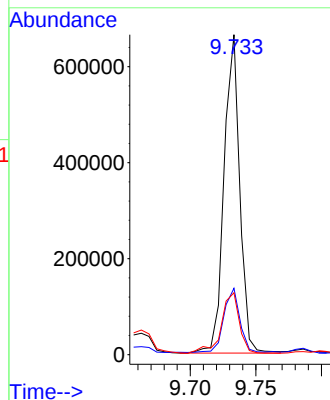
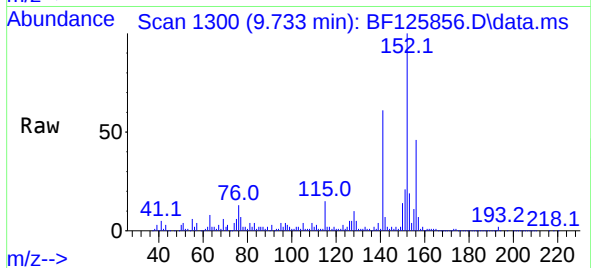
BNA_F

ClientSampleId :

HAR-SOILPILE

Manual Integrations
APPROVED

mohammad
10/18/2021 8:34:45 AM



#52

Acenaphthene

Concen: 22.93 ng

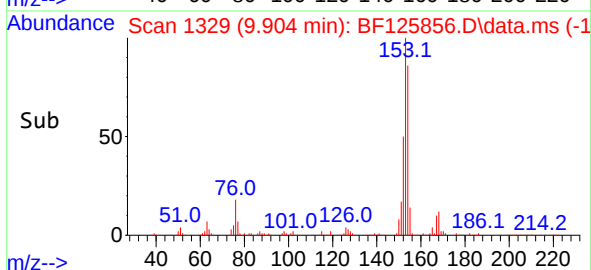
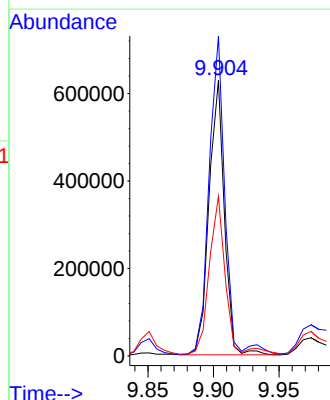
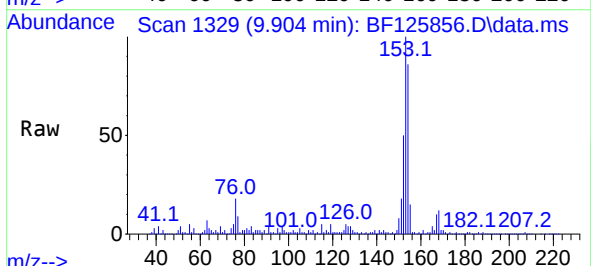
RT: 9.904 min Scan# 1329

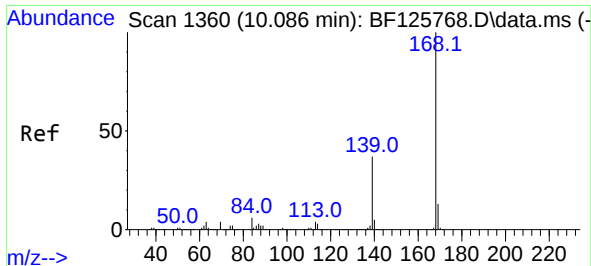
Delta R.T. -0.012 min

Lab File: BF125856.D

Acq: 14 Oct 2021 21:23

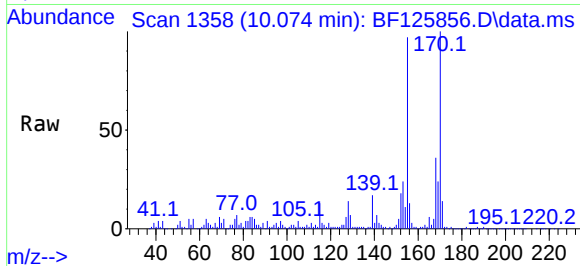
Tgt Ion:154 Resp: 511563
Ion Ratio Lower Upper
154 100
153 116.1 89.4 134.2
152 58.0 40.5 60.7





#55
Dibenzenofuran
Concen: 4.75 ng
RT: 10.074 min Scan# 1358
Delta R.T. -0.012 min
Lab File: BF125856.D
Acq: 14 Oct 2021 21:23

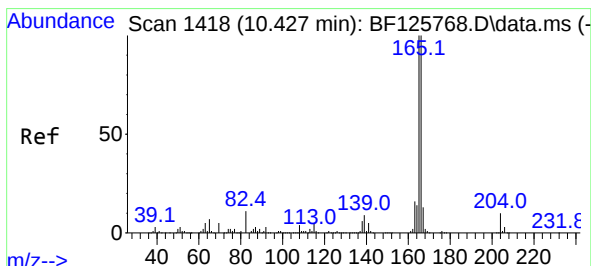
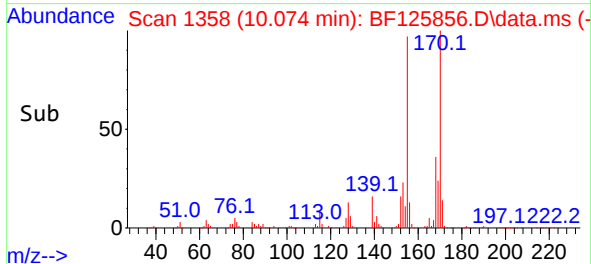
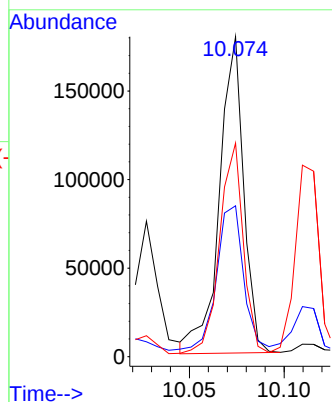
Instrument :
BNA_F
ClientSampleId :
HAR-SOILPILE



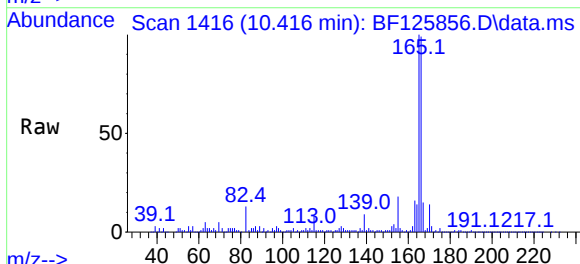
Tgt Ion:168 Resp: 158669
Ion Ratio Lower Upper
168 100
139 47.2 32.7 49.1
169 66.7 11.2 16.8#

Manual Integrations
APPROVED

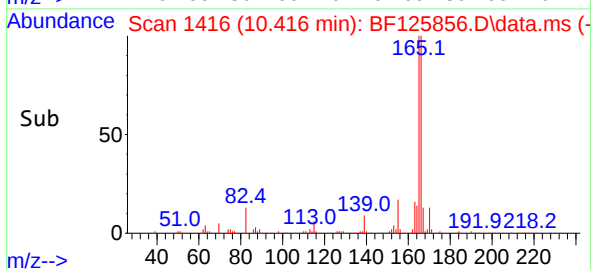
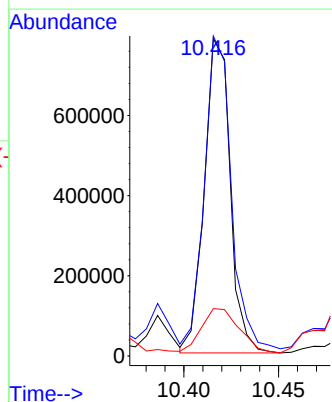
mohammad
10/18/2021 8:34:45 AM

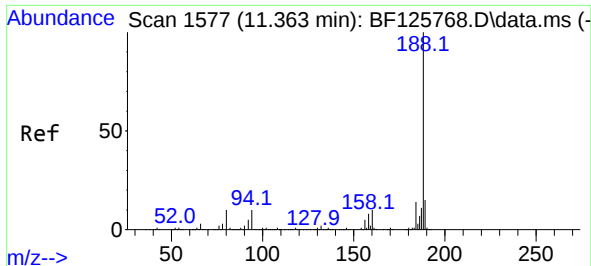


#58
Fluorene
Concen: 30.41 ng
RT: 10.416 min Scan# 1416
Delta R.T. -0.012 min
Lab File: BF125856.D
Acq: 14 Oct 2021 21:23



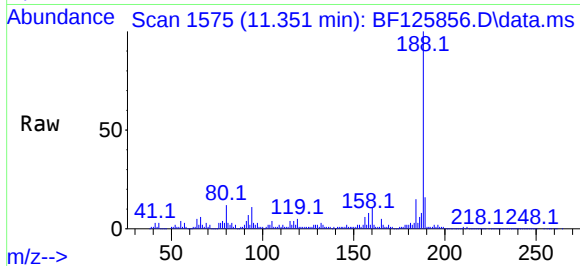
Tgt Ion:166 Resp: 744298
Ion Ratio Lower Upper
166 100
165 100.9 78.1 117.1
167 15.0 11.1 16.7





#64
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.351 min Scan# 1575
Delta R.T. -0.012 min
Lab File: BF125856.D
Acq: 14 Oct 2021 21:23

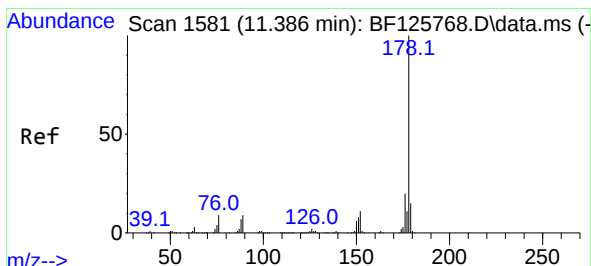
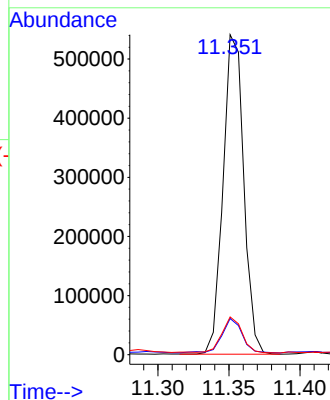
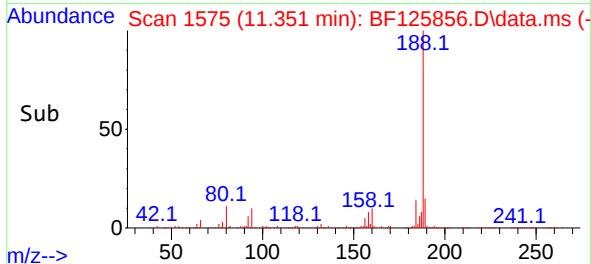
Instrument :
BNA_F
ClientSampleId :
HAR-SOILPILE



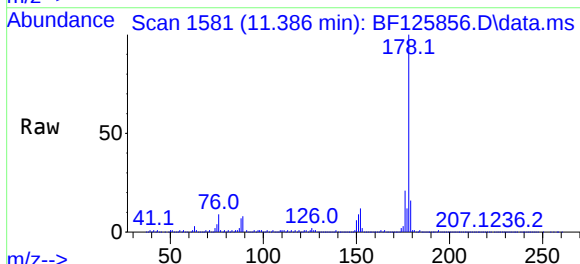
Tgt Ion:188 Resp: 546117
Ion Ratio Lower Upper
188 100
94 11.3 6.7 10.1#
80 11.8 7.5 11.3#

Manual Integrations
APPROVED

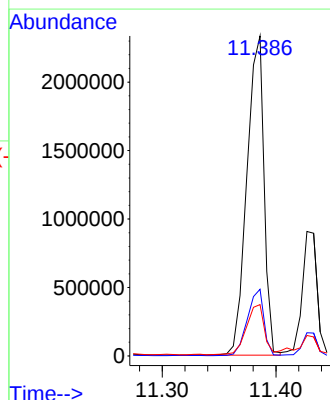
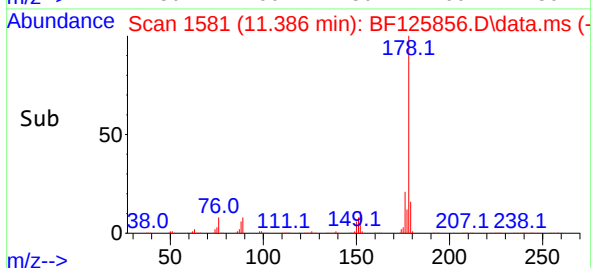
mohammad
10/18/2021 8:34:45 AM

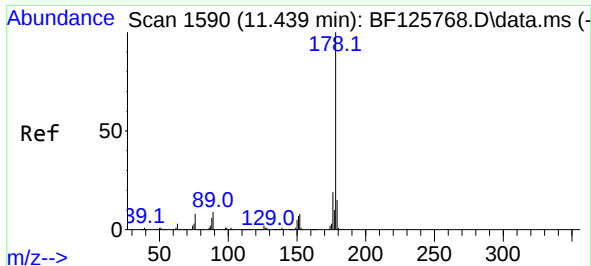


#71
Phenanthrene
Concen: 83.83 ng
RT: 11.386 min Scan# 1581
Delta R.T. -0.006 min
Lab File: BF125856.D
Acq: 14 Oct 2021 21:23

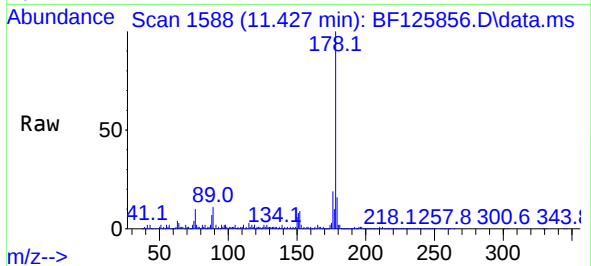


Tgt Ion:178 Resp: 2449473
Ion Ratio Lower Upper
178 100
176 20.8 14.7 22.1
179 16.1 11.5 17.3

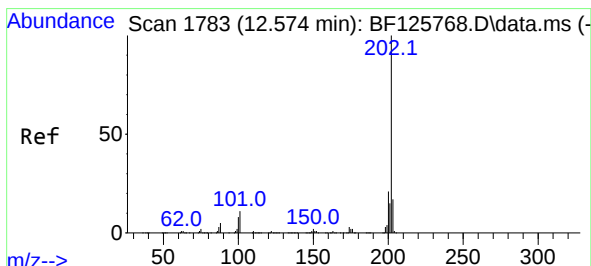
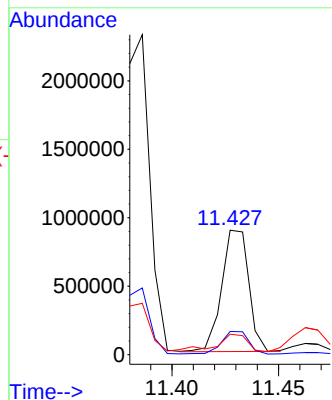
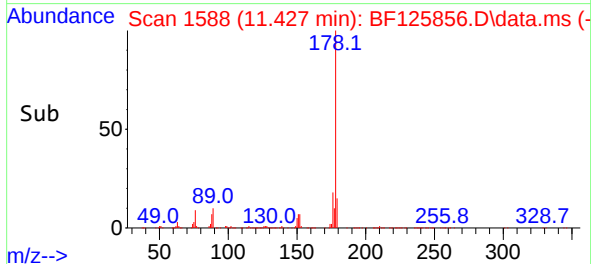




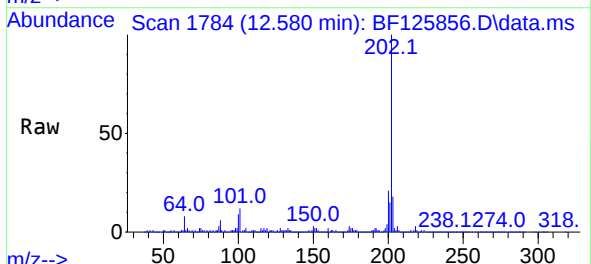
#72
 Anthracene
 Concen: 26.90 ng
 RT: 11.427 min Scan# 1588
 Delta R.T. -0.012 min
 Lab File: BF125856.D
 Acq: 14 Oct 2021 21:23



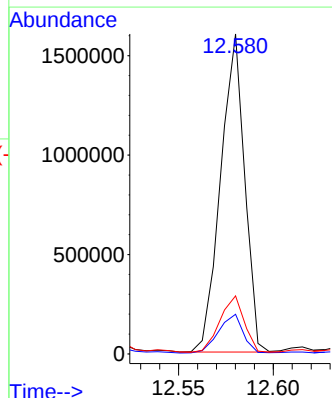
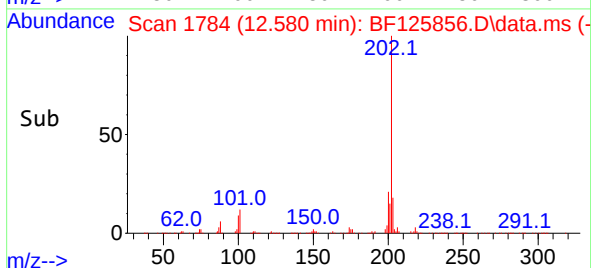
Tgt Ion:178 Resp: 784996
 Ion Ratio Lower Upper
 178 100
 176 18.6 14.3 21.5
 179 16.4 12.2 18.4



#75
 Fluoranthene
 Concen: 53.62 ng
 RT: 12.580 min Scan# 1784
 Delta R.T. 0.006 min
 Lab File: BF125856.D
 Acq: 14 Oct 2021 21:23



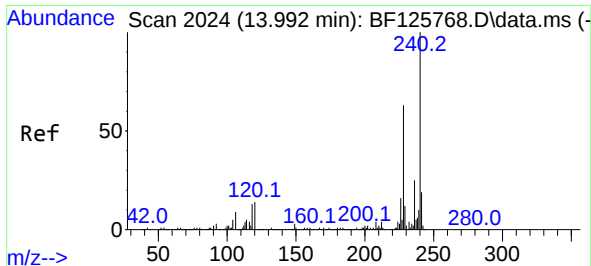
Tgt Ion:202 Resp: 1413679
 Ion Ratio Lower Upper
 202 100
 101 12.4 0.0 30.7
 203 18.1 0.0 36.3



Instrument :
 BNA_F
 ClientSampleId :
 HAR-SOILPILE

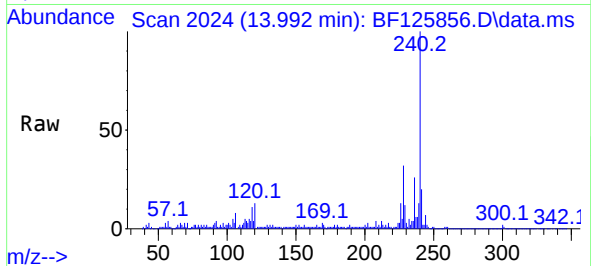
Manual Integrations
 APPROVED

mohammad
 10/18/2021 8:34:45 AM



#76
Chrysene-d12
Concen: 20.00 ng
RT: 13.992 min Scan# 2024
Delta R.T. -0.006 min
Lab File: BF125856.D
Acq: 14 Oct 2021 21:23

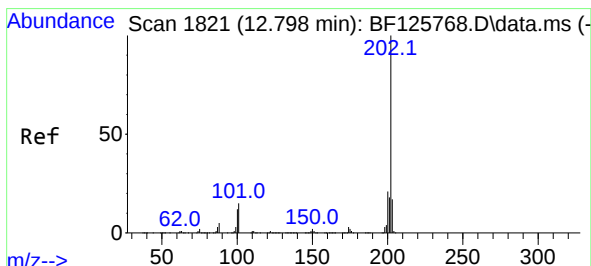
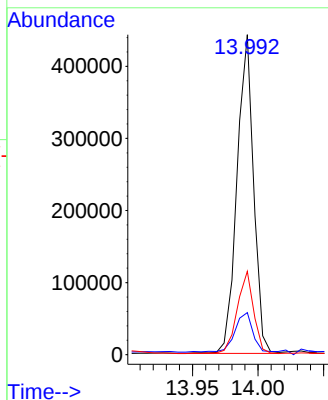
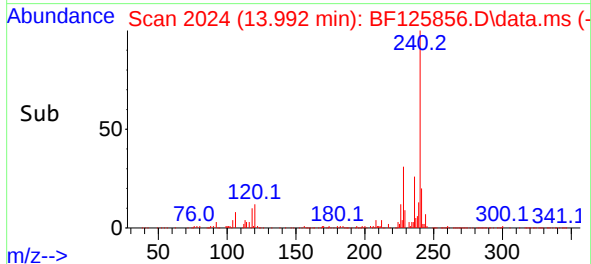
Instrument :
BNA_F
ClientSampleId :
HAR-SOILPILE



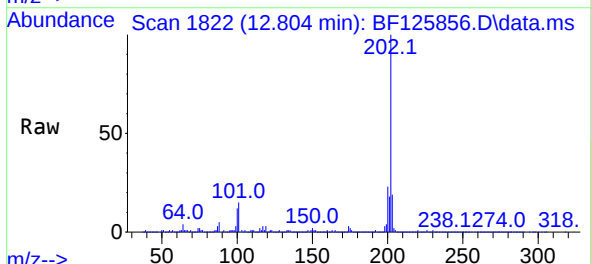
Tgt Ion:240 Resp: 389988
Ion Ratio Lower Upper
240 100
120 13.2 10.8 16.2
236 26.0 21.6 32.4

Manual Integrations
APPROVED

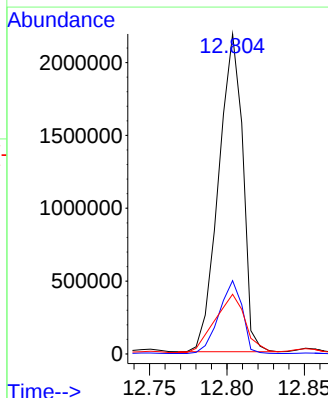
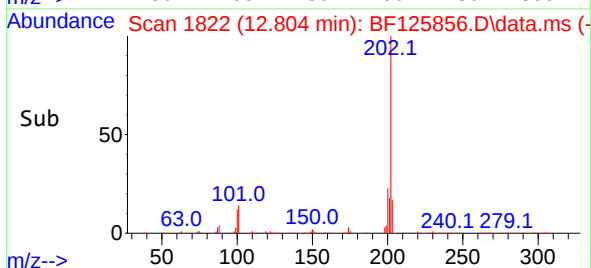
mohammad
10/18/2021 8:34:45 AM

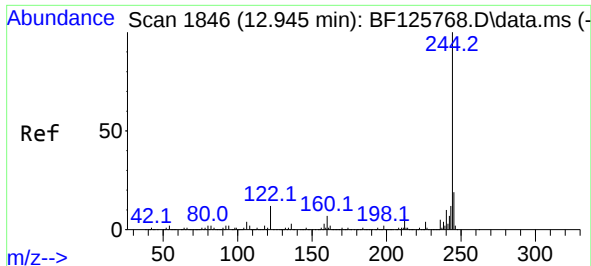


#78
Pyrene
Concen: 59.65 ng
RT: 12.804 min Scan# 1822
Delta R.T. -0.000 min
Lab File: BF125856.D
Acq: 14 Oct 2021 21:23

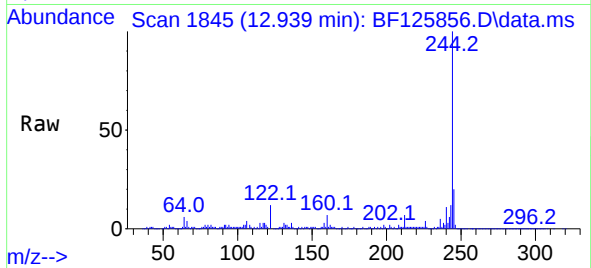


Tgt Ion:202 Resp: 2363508
Ion Ratio Lower Upper
202 100
200 22.9 15.3 22.9
203 18.6 13.4 20.0

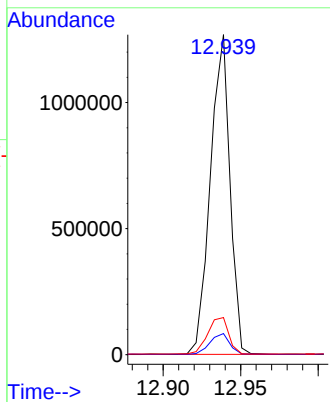
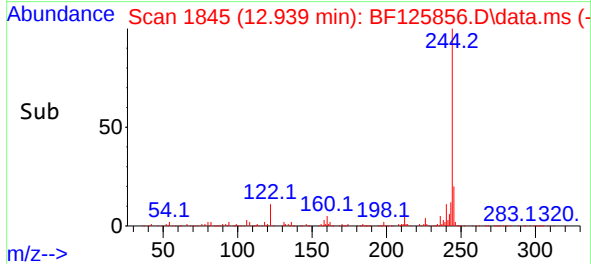




#79
Terphenyl-d14
Concen: 43.49 ng
RT: 12.939 min Scan# 1845
Delta R.T. -0.006 min
Lab File: BF125856.D
Acq: 14 Oct 2021 21:23



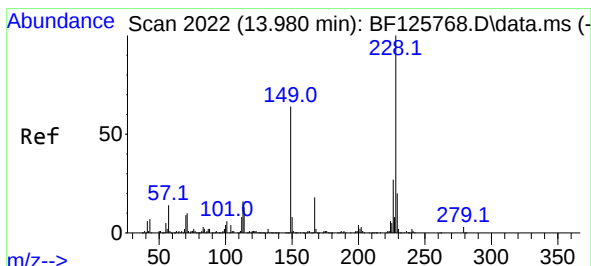
Tgt Ion:244 Resp: 1113383
Ion Ratio Lower Upper
244 100
212 6.6 5.9 8.9
122 11.6 9.0 13.4



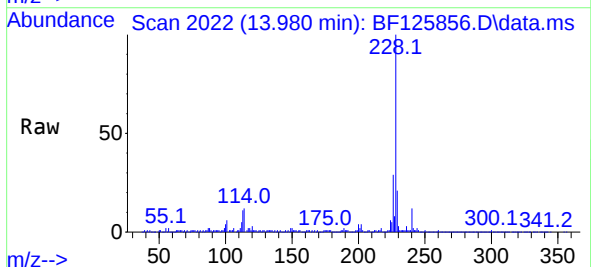
Instrument :
BNA_F
ClientSampleId :
HAR-SOILPILE

Manual Integrations
APPROVED

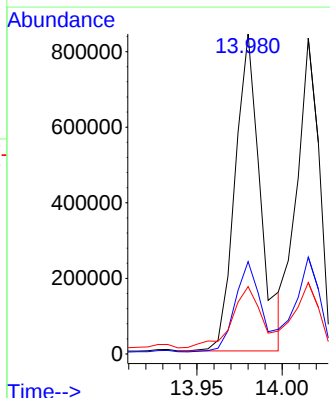
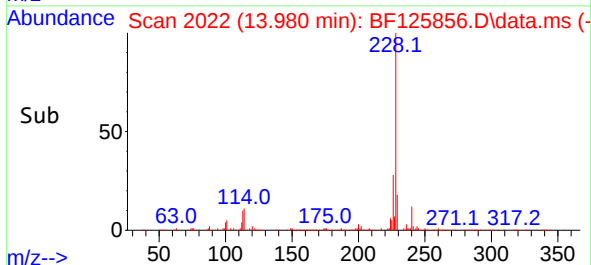
mohammad
10/18/2021 8:34:45 AM

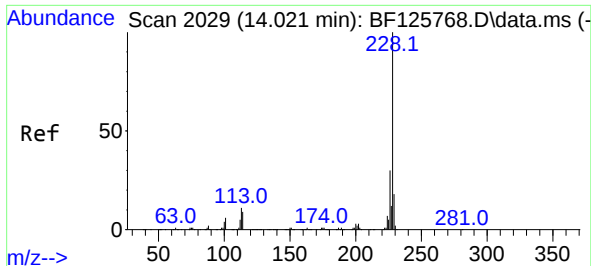


#81
Benzo(a)anthracene
Concen: 34.14 ng
RT: 13.980 min Scan# 2022
Delta R.T. -0.006 min
Lab File: BF125856.D
Acq: 14 Oct 2021 21:23



Tgt Ion:228 Resp: 863808
Ion Ratio Lower Upper
228 100
226 28.8 21.6 32.4
229 21.0 15.6 23.4





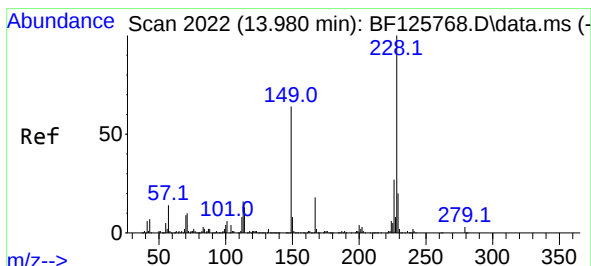
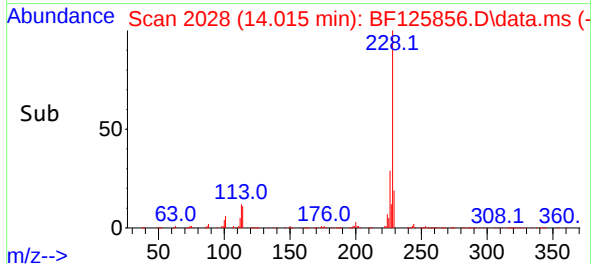
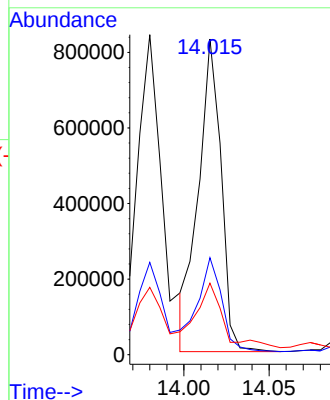
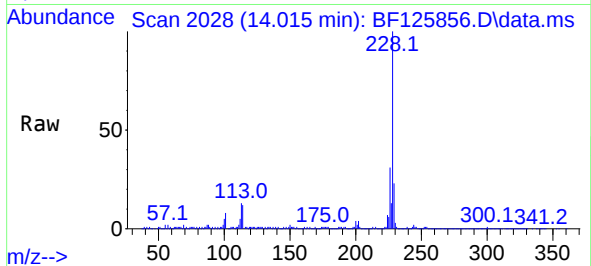
#83
Chrysene
Concen: 30.64 ng
RT: 14.015 min Scan# 2028
Delta R.T. -0.012 min
Lab File: BF125856.D
Acq: 14 Oct 2021 21:23

Tgt Ion:228 Resp: 766200
Ion Ratio Lower Upper
228 100
226 30.7 22.6 34.0
229 22.7 15.9 23.9

Instrument :
BNA_F
ClientSampleId :
HAR-SOILPILE

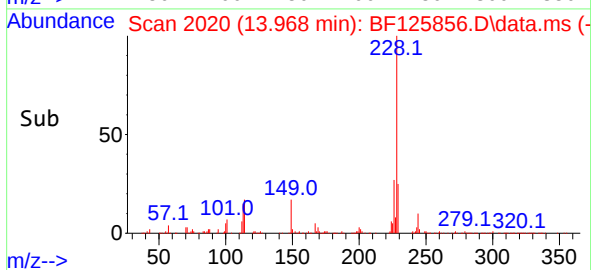
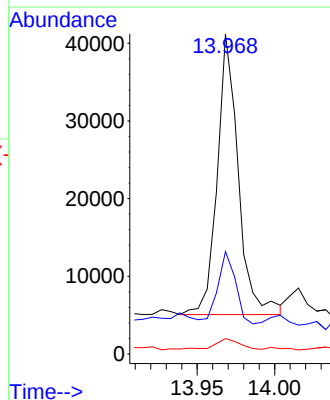
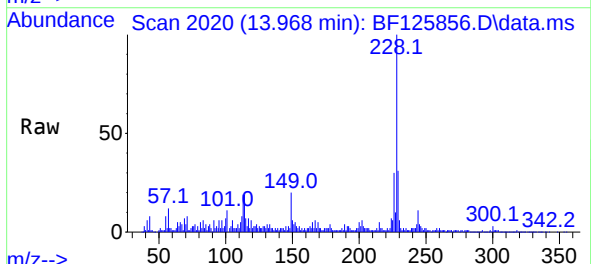
Manual Integrations
APPROVED

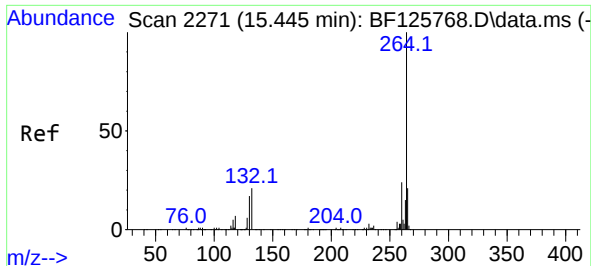
mohammad
10/18/2021 8:34:45 AM



#84
Bis(2-ethylhexyl)phthalate
Concen: 2.48 ng
RT: 13.968 min Scan# 2020
Delta R.T. -0.012 min
Lab File: BF125856.D
Acq: 14 Oct 2021 21:23

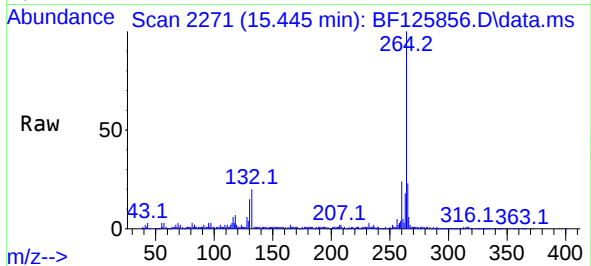
Tgt Ion:149 Resp: 34218
Ion Ratio Lower Upper
149 100
167 32.0 21.4 32.0
279 4.8 2.6 4.0#





#86
Perylene-d12
Concen: 20.00 ng
RT: 15.445 min Scan# 2271
Delta R.T. -0.006 min
Lab File: BF125856.D
Acq: 14 Oct 2021 21:23

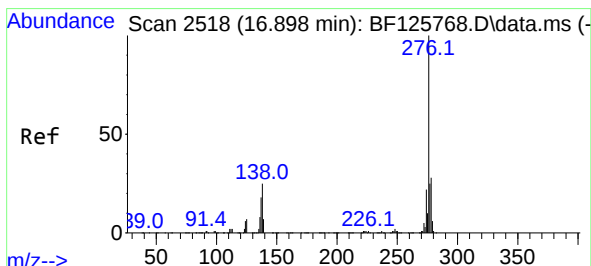
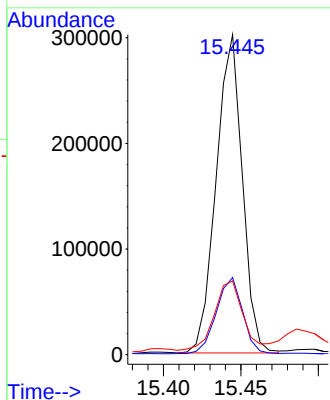
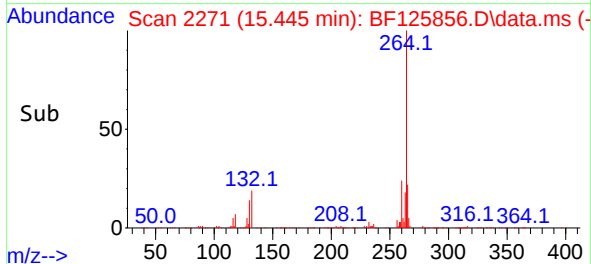
Instrument :
BNA_F
ClientSampleId :
HAR-SOILPILE



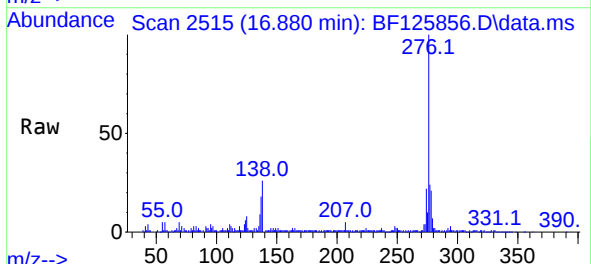
Tgt Ion:264 Resp: 353134
Ion Ratio Lower Upper
264 100
260 24.1 19.6 29.4
265 23.1 17.2 25.8

Manual Integrations
APPROVED

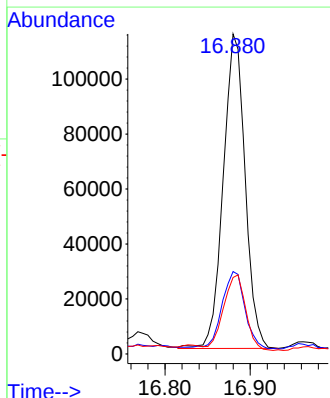
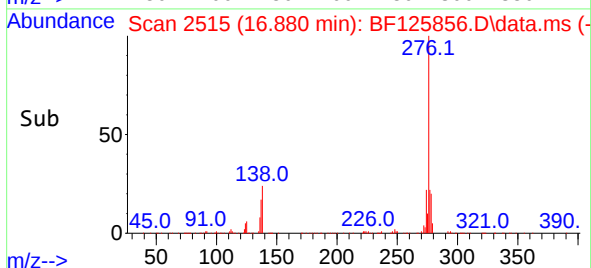
mohammad
10/18/2021 8:34:45 AM

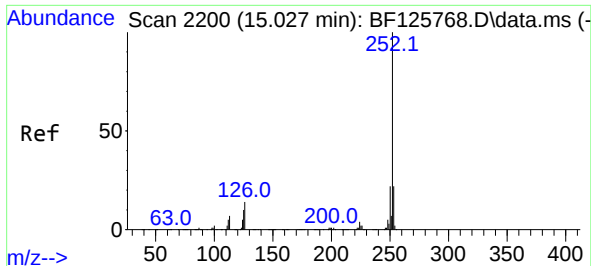


#87
Indeno(1,2,3-cd)pyrene
Concen: 7.58 ng
RT: 16.880 min Scan# 2515
Delta R.T. -0.030 min
Lab File: BF125856.D
Acq: 14 Oct 2021 21:23



Tgt Ion:276 Resp: 204169
Ion Ratio Lower Upper
276 100
138 25.9 24.1 36.1
277 24.5 18.8 28.2





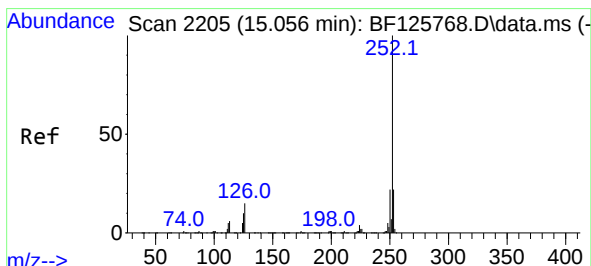
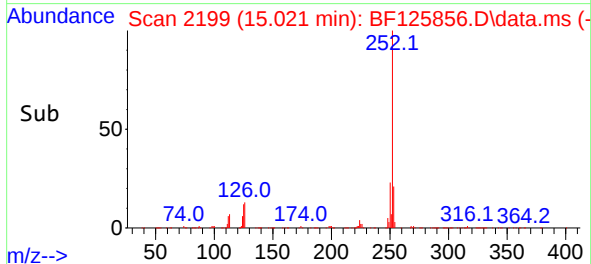
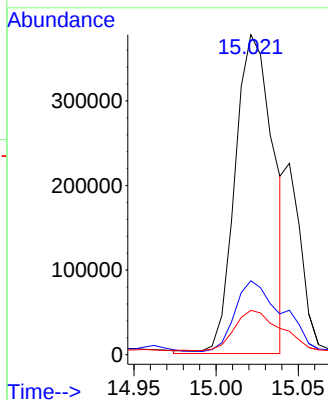
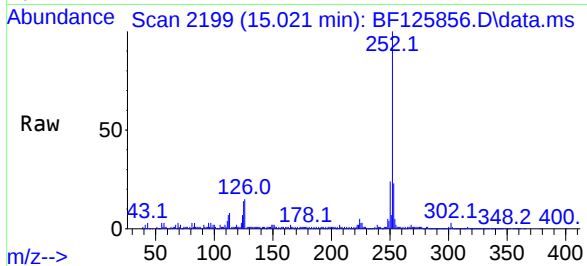
#88
Benzo(b)fluoranthene
Concen: 30.69 ng m
RT: 15.021 min Scan# 2199
Delta R.T. -0.006 min
Lab File: BF125856.D
Acq: 14 Oct 2021 21:23

Tgt Ion:252 Resp: 611892
Ion Ratio Lower Upper
252 100
253 23.1 16.8 25.2
125 13.9 9.8 14.8

Instrument :
BNA_F
ClientSampleId :
HAR-SOILPILE

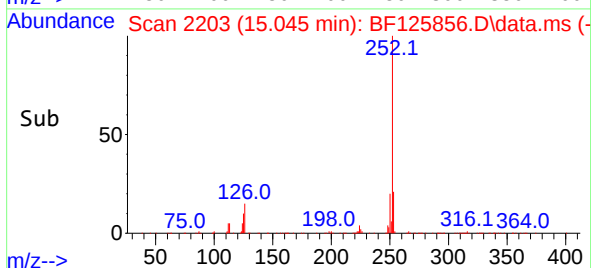
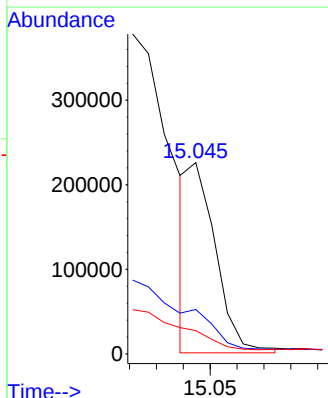
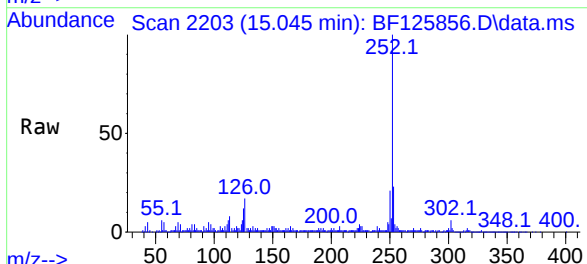
Manual Integrations
APPROVED

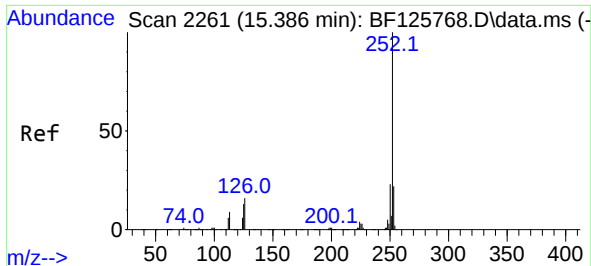
mohammad
10/18/2021 8:34:45 AM



#89
Benzo(k)fluoranthene
Concen: 7.68 ng m
RT: 15.045 min Scan# 2203
Delta R.T. -0.018 min
Lab File: BF125856.D
Acq: 14 Oct 2021 21:23

Tgt Ion:252 Resp: 157159
Ion Ratio Lower Upper
252 100
253 23.3 17.8 26.8
125 12.2 7.2 10.8#





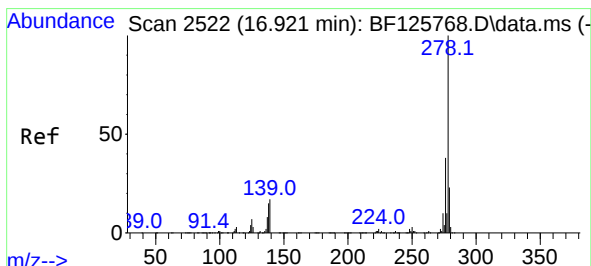
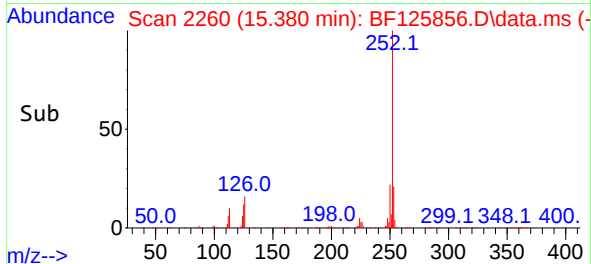
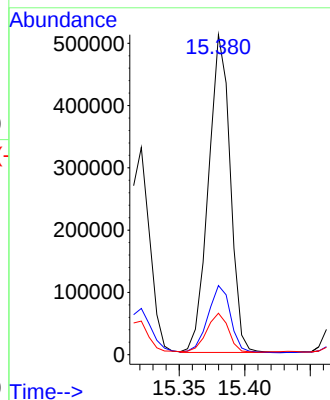
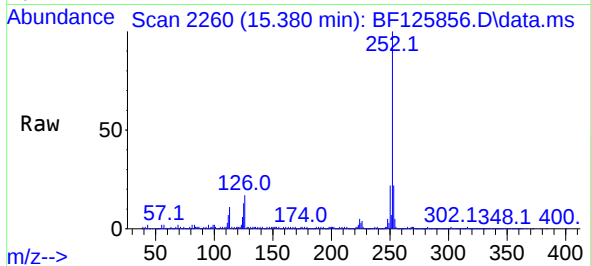
#90
Benzo(a)pyrene
Concen: 33.38 ng
RT: 15.380 min Scan# 2260
Delta R.T. -0.012 min
Lab File: BF125856.D
Acq: 14 Oct 2021 21:23

Tgt Ion:252 Resp: 589319
Ion Ratio Lower Upper
252 100
253 21.6 18.4 27.6
125 13.0 9.9 14.9

Instrument :
BNA_F
ClientSampleId :
HAR-SOILPILE

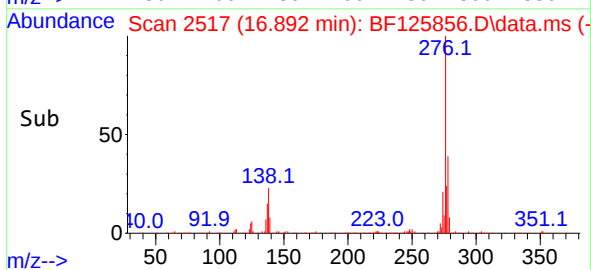
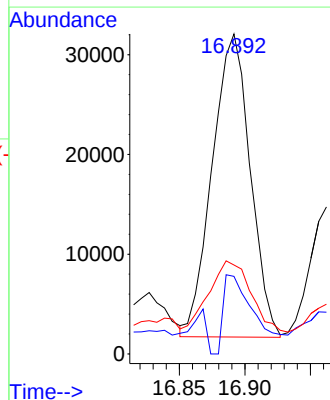
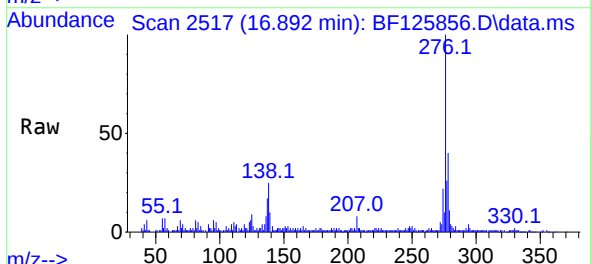
Manual Integrations
APPROVED

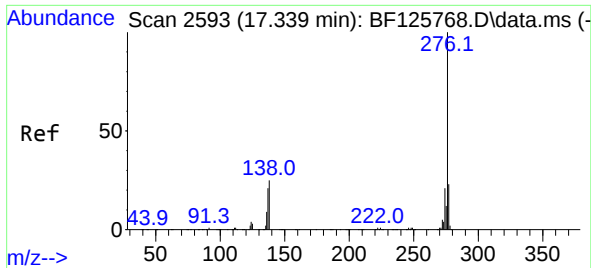
mohammad
10/18/2021 8:34:45 AM



#91
Dibenzo(a,h)anthracene
Concen: 2.75 ng
RT: 16.892 min Scan# 2517
Delta R.T. -0.036 min
Lab File: BF125856.D
Acq: 14 Oct 2021 21:23

Tgt Ion:278 Resp: 61248
Ion Ratio Lower Upper
278 100
139 24.3 14.9 22.3#
279 27.8 19.7 29.5





#92
Benzo(g,h,i)perylene
Concen: 9.90 ng
RT: 17.315 min Scan# 2589
Delta R.T. -0.036 min
Lab File: BF125856.D
Acq: 14 Oct 2021 21:23

Tgt Ion: 276 Resp: 224759
Ion Ratio Lower Upper
276 100
277 22.2 22.0 33.0
138 26.2 22.2 33.4

Instrument :
BNA_F
ClientSampleId :
HAR-SOILPILE

Manual Integrations
APPROVED

mohammad
10/18/2021 8:34:45 AM

