

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050522\
 Data File : BF128108.D
 Acq On : 05 May 2022 21:48
 Operator : CG\JU
 Sample : N2667-01
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 75-HALSTAD-ST-STOCK-PILE

Quant Time: May 06 05:02:50 2022
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF042222.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu May 05 17:56:23 2022
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Christian Giraldo 05/06/2022
 Supervised By :mohammad ahmed 05/09/2022

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.904	152	87012	20.000	ng	0.00
21) Naphthalene-d8	8.187	136	337470	20.000	ng	-0.01
39) Acenaphthene-d10	9.945	164	186149	20.000	ng	0.00
64) Phenanthrene-d10	11.433	188	283719	20.000	ng	-0.01
76) Chrysene-d12	14.080	240	188152	20.000	ng	-0.01
86) Perylene-d12	15.586	264	169660	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.528	112	523453	95.820	ng	0.00
7) Phenol-d6	6.534	99	692357	97.674	ng	-0.01
23) Nitrobenzene-d5	7.469	82	486880	67.843	ng	-0.01
42) 2,4,6-Tribromophenol	10.739	330	166391	88.794	ng	0.00
45) 2-Fluorobiphenyl	9.263	172	795935	72.335	ng	0.00
79) Terphenyl-d14	13.022	244	615696	59.837	ng	-0.01
Target Compounds						Qvalue
71) Phenanthrene	11.457	178	153875	10.361	ng	99
75) Fluoranthene	12.651	202	167650	10.726	ng	97
78) Pyrene	12.880	202	213521	14.058	ng	100
81) Benzo(a)anthracene	14.069	228	90458	7.213	ng	99
83) Chrysene	14.110	228	86491	7.221	ng	98
87) Indeno(1,2,3-cd)pyrene	17.104	276	29269m	2.585	ng	
88) Benzo(b)fluoranthene	15.139	252	86896m	8.155	ng	
89) Benzo(k)fluoranthene	15.163	252	25919m	2.414	ng	
90) Benzo(a)pyrene	15.516	252	60852	6.884	ng	98
92) Benzo(g,h,i)perylene	17.562	276	28329	2.960	ng	95

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

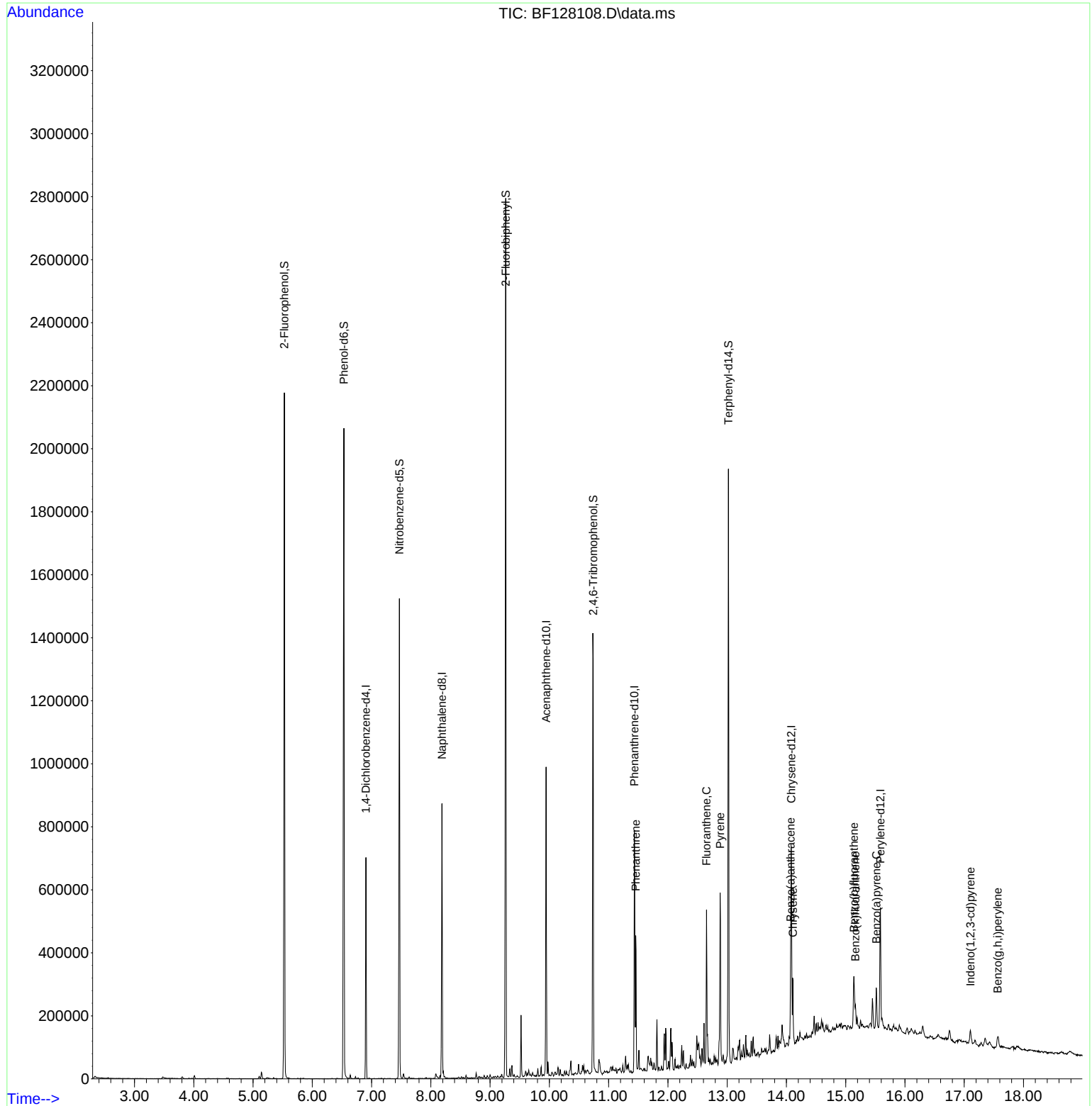
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050522\
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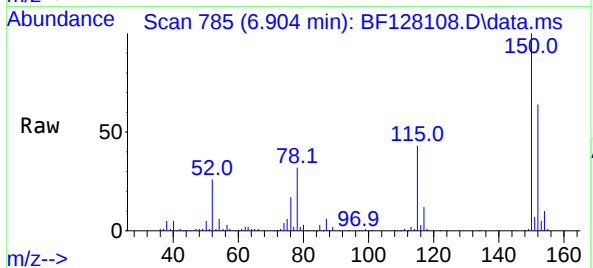
Reviewed By :Christian Giraldo 05/06/2022
Supervised By :mohammad ahmed 05/09/2022





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.904 min Scan# 71
Delta R.T. -0.006 min
Lab File: BF128108.D
Acq: 05 May 2022 21:48

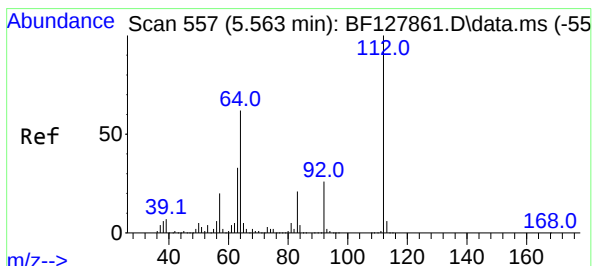
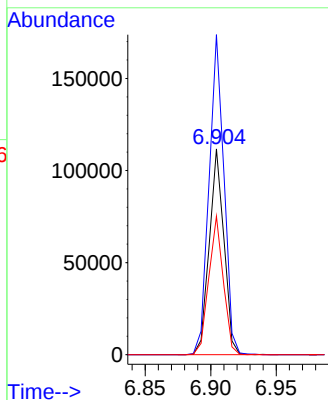
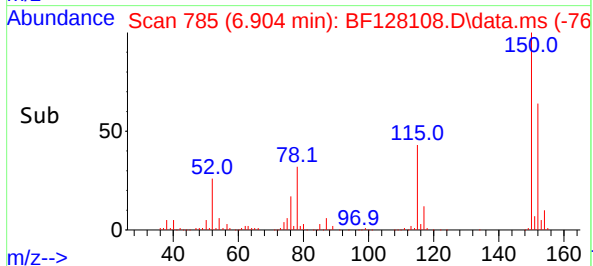
Instrument :
BNA_F
ClientSampleId :
75-HALSTAD-ST-STOCK-PILE



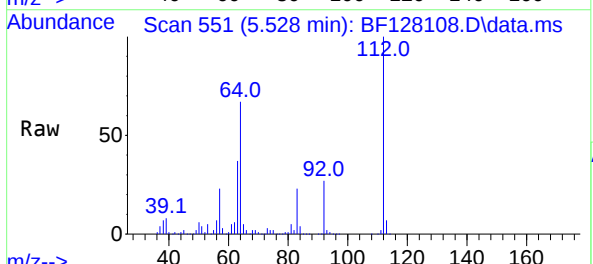
Tgt Ion:152 Resp: 87012
Ion Ratio Lower Upper
152 100
150 155.5 125.3 187.9
115 67.2 48.8 73.2

Manual Integrations
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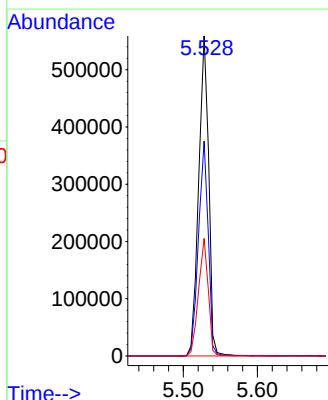
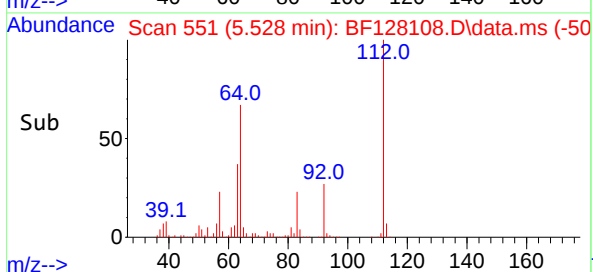
Reviewed By :Christian Giraldo 05/06/2022
Supervised By :mohammad ahmed 05/09/2022

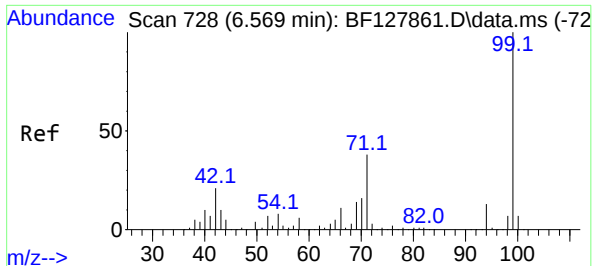


#5
2-Fluorophenol
Concen: 95.820 ng
RT: 5.528 min Scan# 551
Delta R.T. -0.006 min
Lab File: BF128108.D
Acq: 05 May 2022 21:48



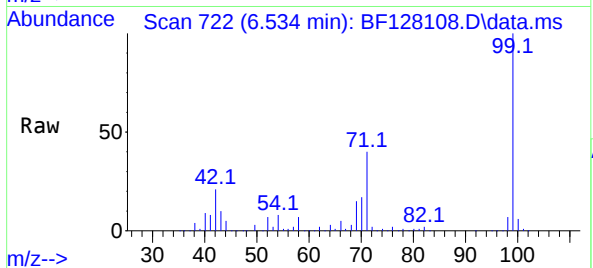
Tgt Ion:112 Resp: 523453
Ion Ratio Lower Upper
112 100
64 67.1 49.5 74.3
63 36.8 26.3 39.5





#7
Phenol-d6
Concen: 97.674 ng
RT: 6.534 min Scan# 71
Delta R.T. -0.012 min
Lab File: BF128108.D
Acq: 05 May 2022 21:48

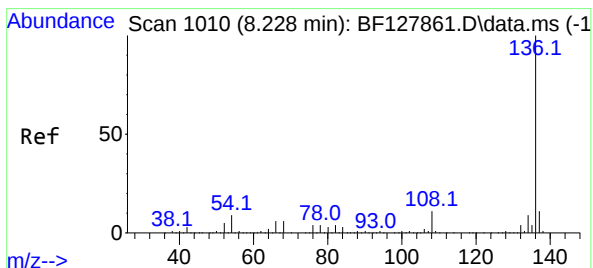
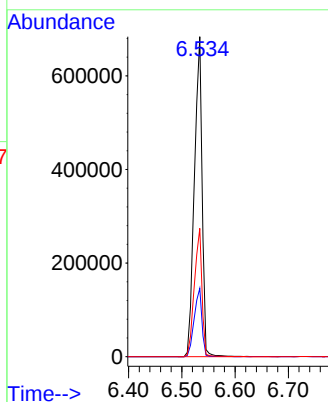
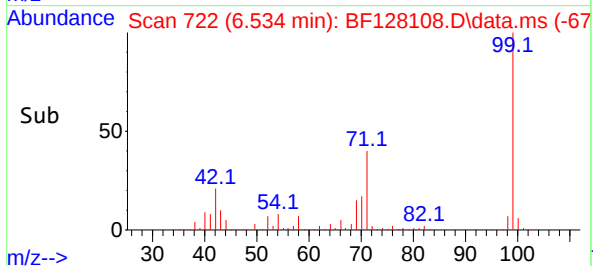
Instrument :
BNA_F
ClientSampleId :
75-HALSTAD-ST-STOCK-PILE



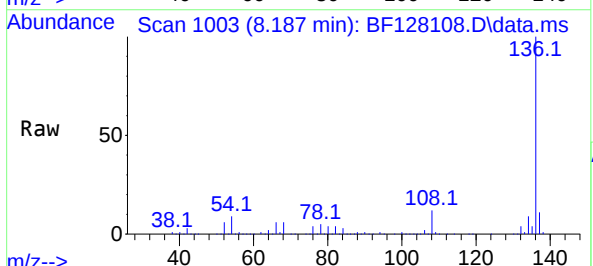
Tgt Ion: 99 Resp: 69235
Ion Ratio Lower Upper
99 100
42 21.4 16.6 24.8
71 40.1 30.0 45.0

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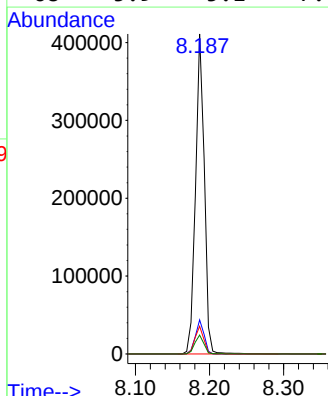
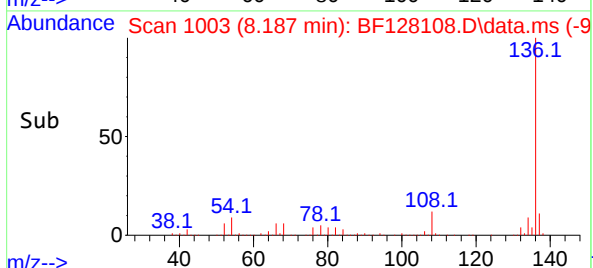
Reviewed By :Christian Giraldo 05/06/2022
Supervised By :mohammad ahmed 05/09/2022



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.187 min Scan# 1003
Delta R.T. -0.012 min
Lab File: BF128108.D
Acq: 05 May 2022 21:48



Tgt Ion:136 Resp: 337470
Ion Ratio Lower Upper
136 100
137 10.6 8.6 13.0
54 8.6 6.8 10.2
68 5.9 5.1 7.7





#23

Nitrobenzene-d5

Concen: 67.843 ng

RT: 7.469 min Scan# 81

Delta R.T. -0.012 min

Lab File: BF128108.D

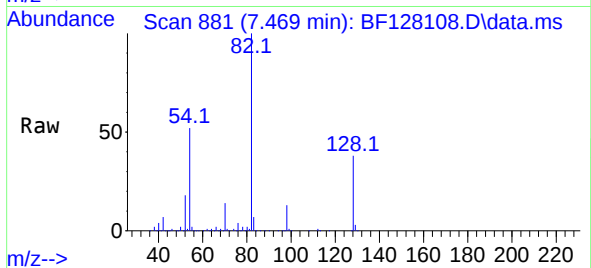
Acq: 05 May 2022 21:48

Instrument :

BNA_F

ClientSampleId :

75-HALSTAD-ST-STOCK-PILE



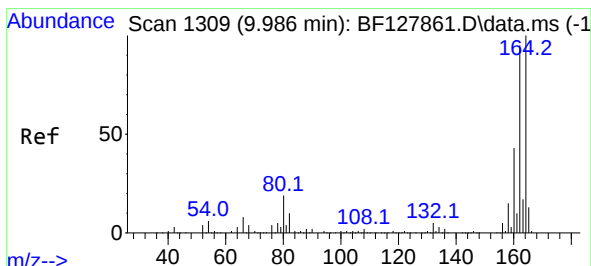
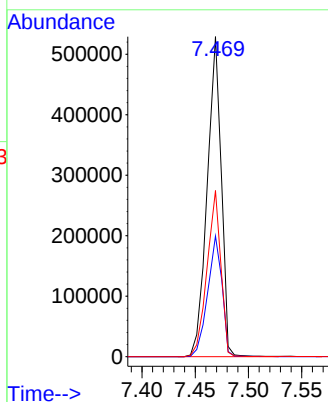
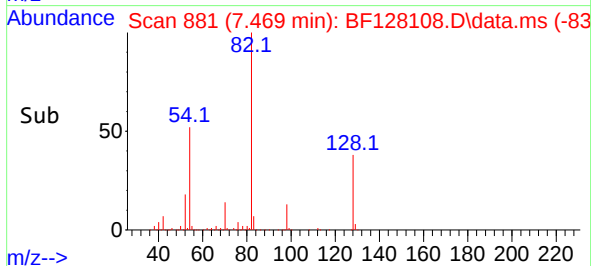
Tgt Ion: 82 Resp: 486880

Ion	Ratio	Lower	Upper
82	100		
128	37.7	30.0	45.0
54	51.9	41.3	61.9

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#39

Acenaphthene-d10

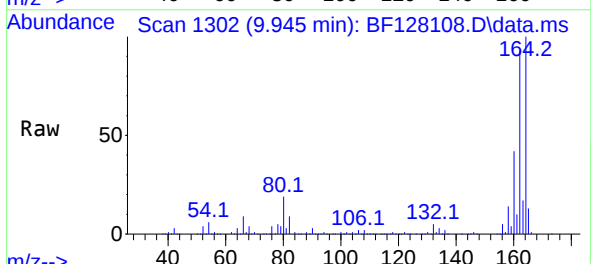
Concen: 20.000 ng

RT: 9.945 min Scan# 1302

Delta R.T. -0.006 min

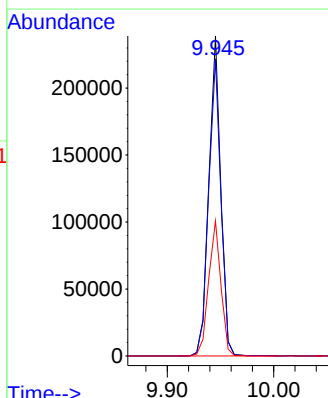
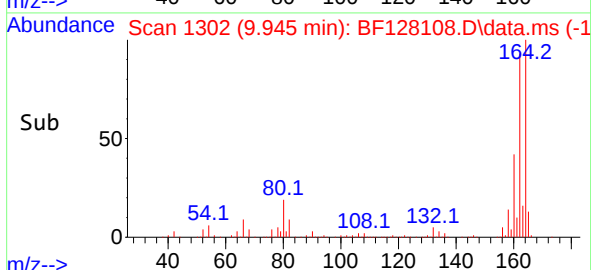
Lab File: BF128108.D

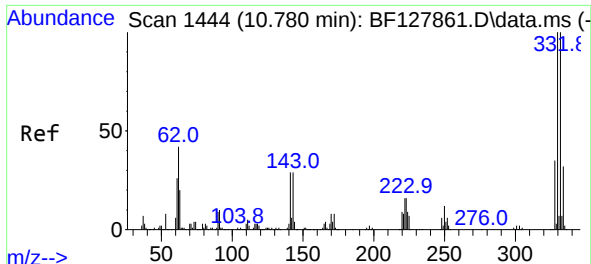
Acq: 05 May 2022 21:48



Tgt Ion:164 Resp: 186149

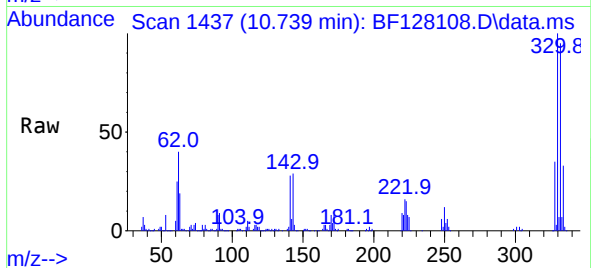
Ion	Ratio	Lower	Upper
164	100		
162	92.9	76.0	114.0
160	42.2	34.8	52.2





#42
2,4,6-Tribromophenol
Concen: 88.794 ng
RT: 10.739 min Scan# 1444
Delta R.T. -0.006 min
Lab File: BF128108.D
Acq: 05 May 2022 21:48

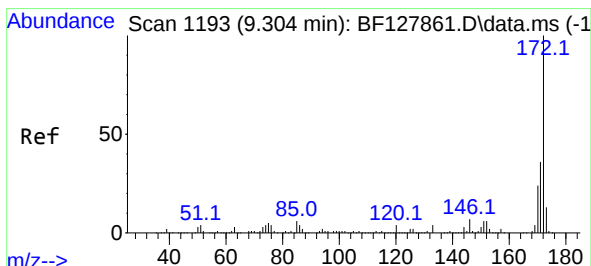
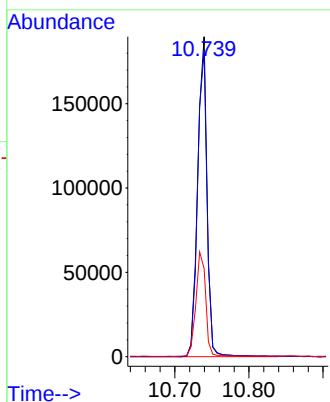
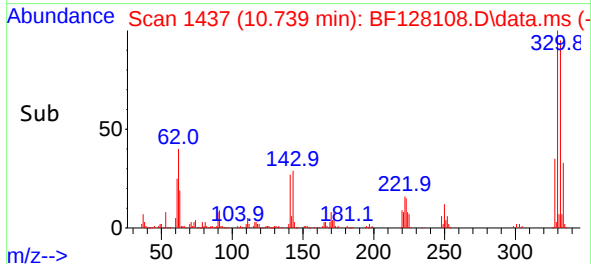
Instrument :
BNA_F
ClientSampleId :
75-HALSTAD-ST-STOCK-PILE



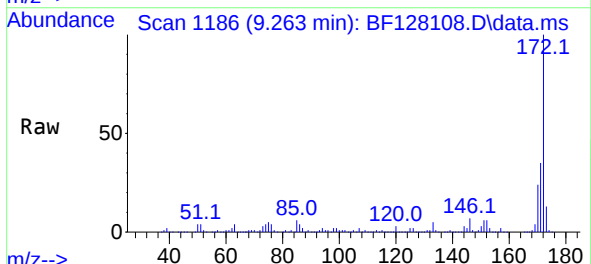
Tgt Ion: 330 Resp: 16639
Ion Ratio Lower Upper
330 100
332 97.0 79.0 118.4
141 33.9 28.9 43.3

Manual Integrations
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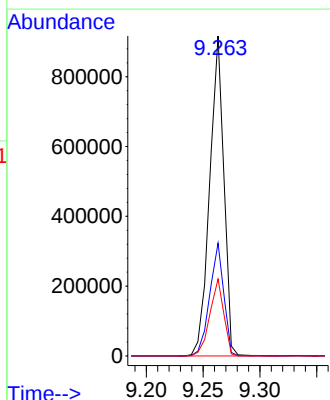
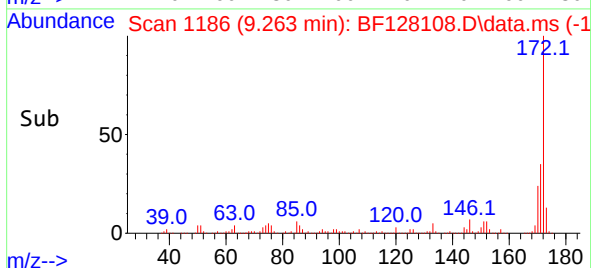
Reviewed By : Christian Giraldo 05/06/2022
Supervised By : mohammad ahmed 05/09/2022



#45
2-Fluorobiphenyl
Concen: 72.335 ng
RT: 9.263 min Scan# 1186
Delta R.T. -0.006 min
Lab File: BF128108.D
Acq: 05 May 2022 21:48



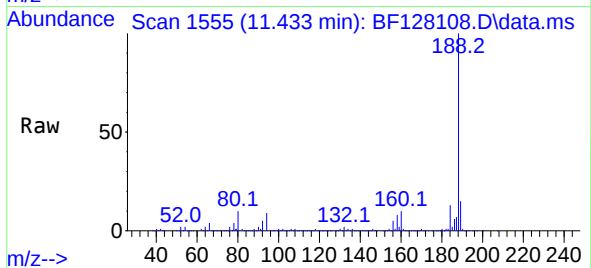
Tgt Ion: 172 Resp: 795935
Ion Ratio Lower Upper
172 100
171 35.2 28.6 42.8
170 24.0 19.1 28.7





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.433 min Scan# 1159
Delta R.T. -0.012 min
Lab File: BF128108.D
Acq: 05 May 2022 21:48

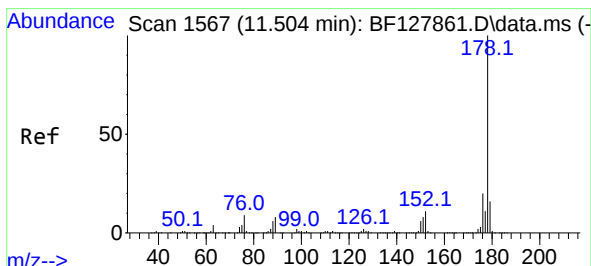
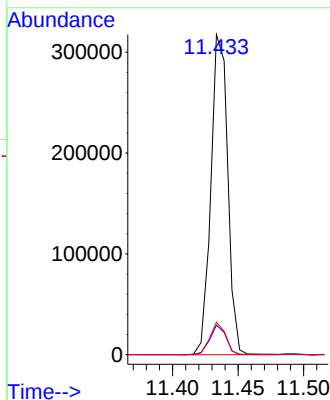
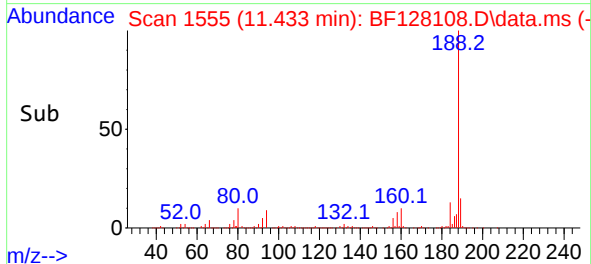
Instrument :
BNA_F
ClientSampleId :
75-HALSTAD-ST-STOCK-PILE



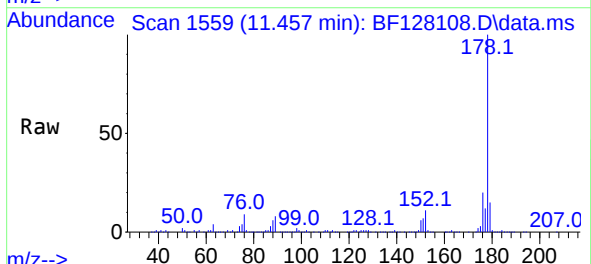
Tgt Ion:188 Resp: 283719
Ion Ratio Lower Upper
188 100
94 9.3 8.0 12.0
80 10.2 8.9 13.3

Manual Integrations
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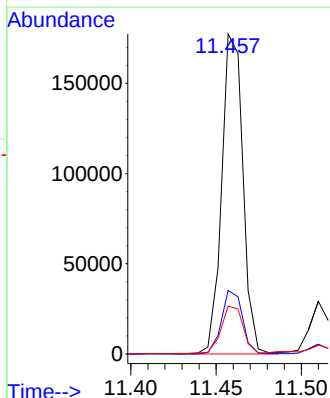
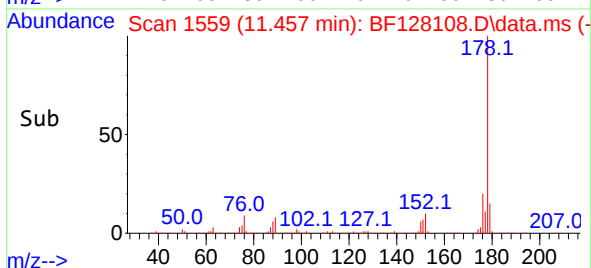
Reviewed By :Christian Giraldo 05/06/2022
Supervised By :mohammad ahmed 05/09/2022

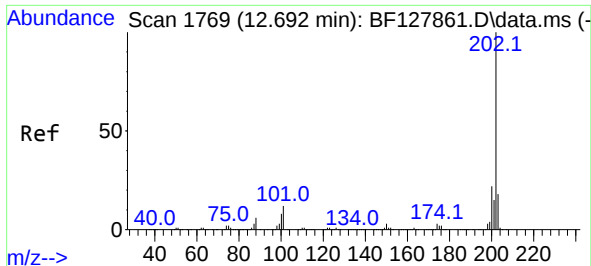


#71
Phenanthrene
Concen: 10.361 ng
RT: 11.457 min Scan# 1559
Delta R.T. -0.017 min
Lab File: BF128108.D
Acq: 05 May 2022 21:48



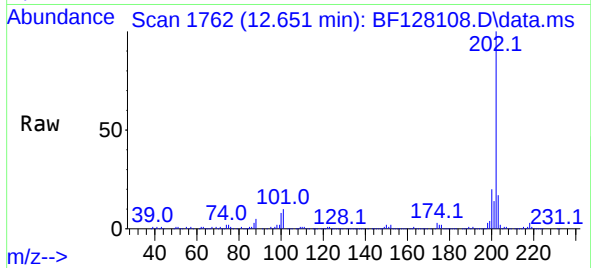
Tgt Ion:178 Resp: 153875
Ion Ratio Lower Upper
178 100
176 19.9 15.7 23.5
179 15.0 12.6 19.0





#75
Fluoranthene
Concen: 10.726 ng
RT: 12.651 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF128108.D
Acq: 05 May 2022 21:48

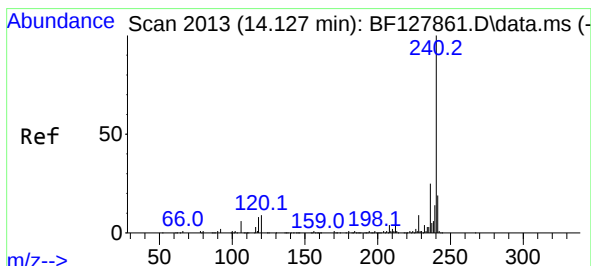
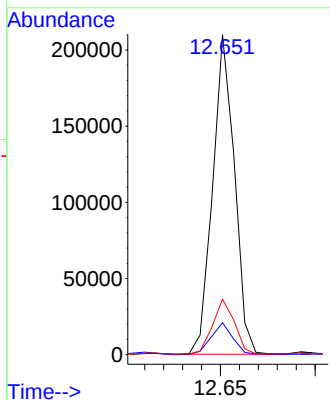
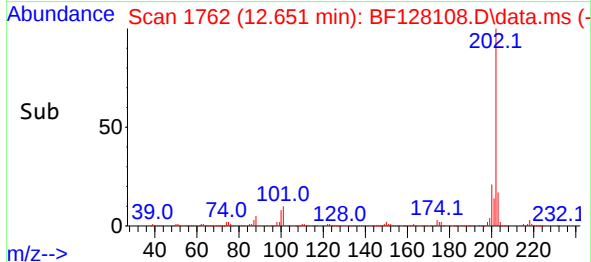
Instrument :
BNA_F
ClientSampleId :
75-HALSTAD-ST-STOCK-PILE



Tgt Ion:202 Resp: 167650
Ion Ratio Lower Upper
202 100
101 10.0 0.0 31.6
203 17.3 0.0 38.1

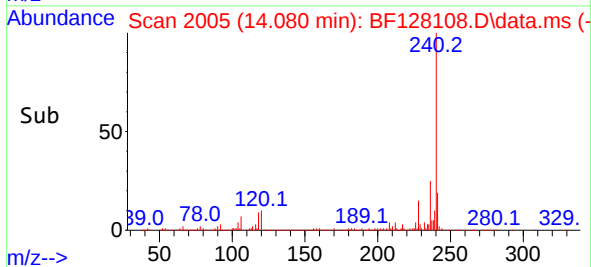
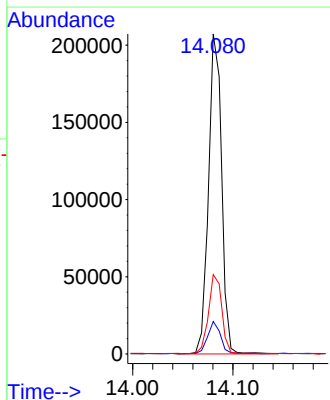
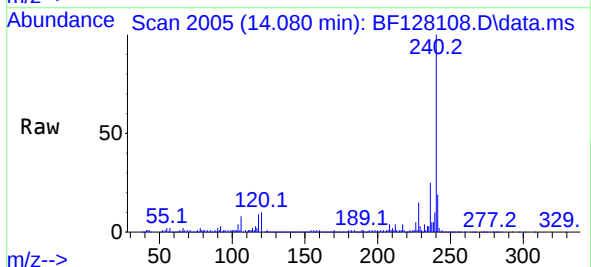
Manual Integrations
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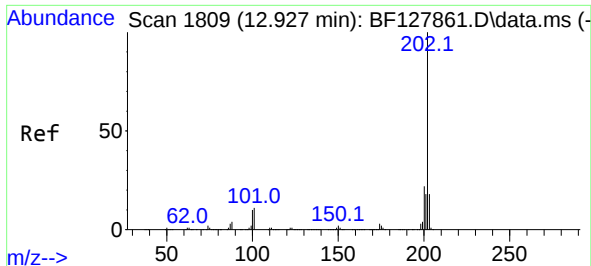
Reviewed By :Christian Giraldo 05/06/2022
Supervised By :mohammad ahmed 05/09/2022



#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.080 min Scan# 2005
Delta R.T. -0.012 min
Lab File: BF128108.D
Acq: 05 May 2022 21:48

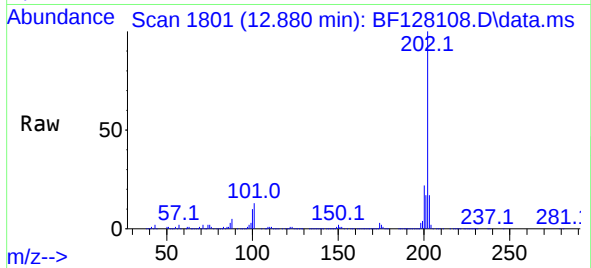
Tgt Ion:240 Resp: 188152
Ion Ratio Lower Upper
240 100
120 10.2 7.0 10.6
236 24.8 20.3 30.5





#78
Pyrene
Concen: 14.058 ng
RT: 12.880 min Scan# 1809
Delta R.T. -0.012 min
Lab File: BF128108.D
Acq: 05 May 2022 21:48

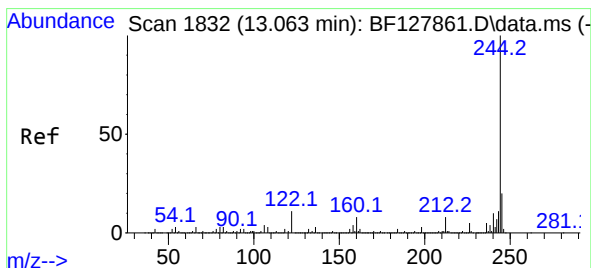
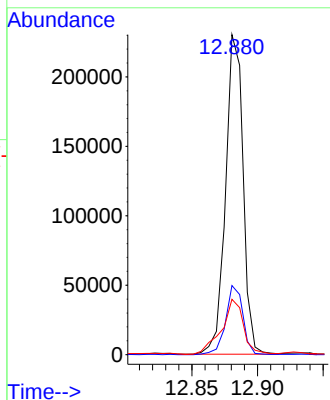
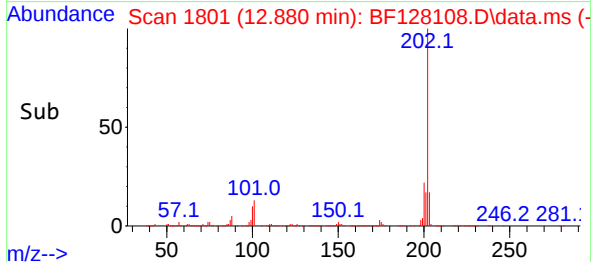
Instrument :
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75-HALSTAD-ST-STOCK-PILE



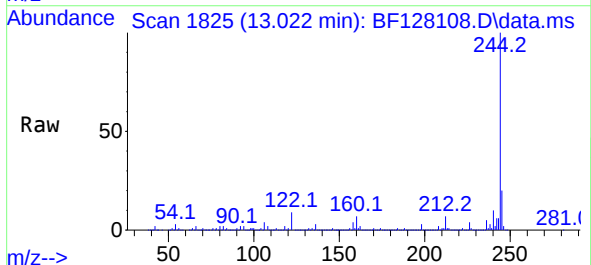
Tgt Ion:202 Resp: 21352
Ion Ratio Lower Upper
202 100
200 21.6 17.4 26.2
203 17.3 14.0 21.0

Manual Integrations
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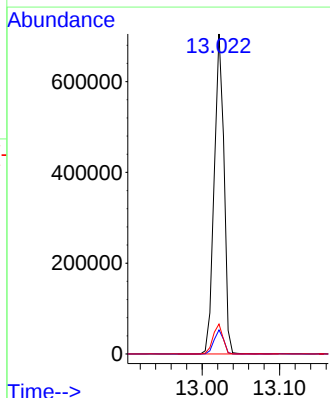
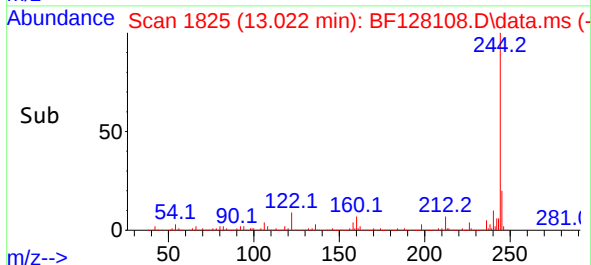
Reviewed By :Christian Giraldo 05/06/2022
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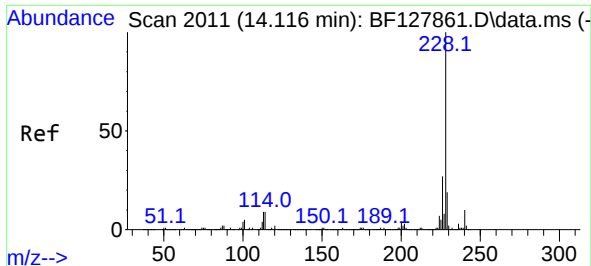


#79
Terphenyl-d14
Concen: 59.837 ng
RT: 13.022 min Scan# 1825
Delta R.T. -0.012 min
Lab File: BF128108.D
Acq: 05 May 2022 21:48



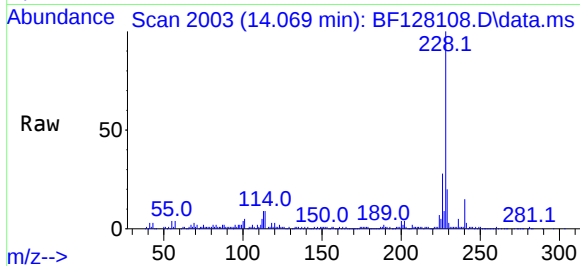
Tgt Ion:244 Resp: 615696
Ion Ratio Lower Upper
244 100
212 7.5 6.2 9.4
122 9.4 8.6 12.8





#81
Benzo(a)anthracene
Concen: 7.213 ng
RT: 14.069 min Scan# 2011
Delta R.T. -0.012 min
Lab File: BF128108.D
Acq: 05 May 2022 21:48

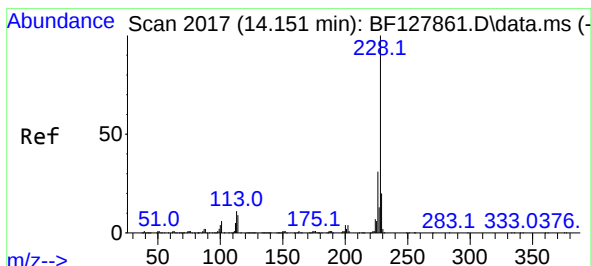
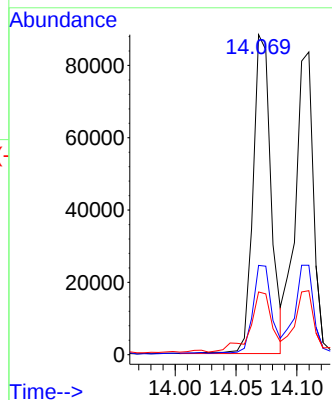
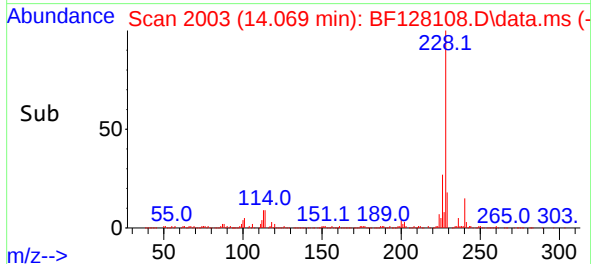
Instrument :
BNA_F
ClientSampleId :
75-HALSTAD-ST-STOCK-PILE



Tgt Ion:228 Resp: 90458
Ion Ratio Lower Upper
228 100
226 27.9 21.7 32.5
229 19.6 15.4 23.2

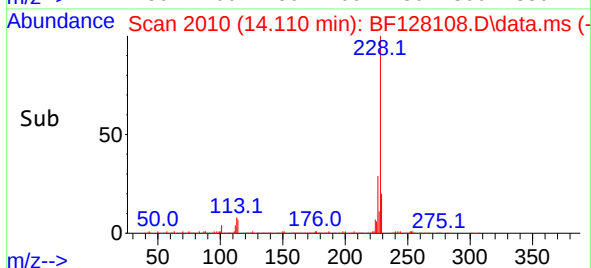
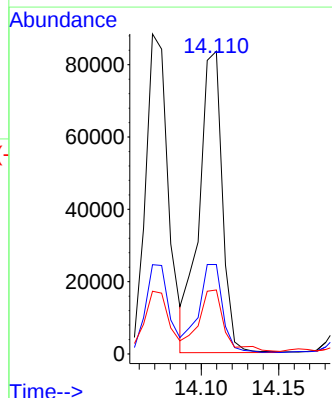
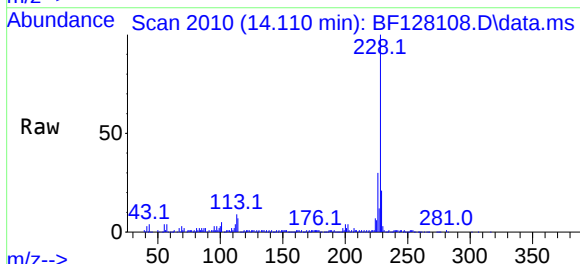
Manual Integrations
APPROVED

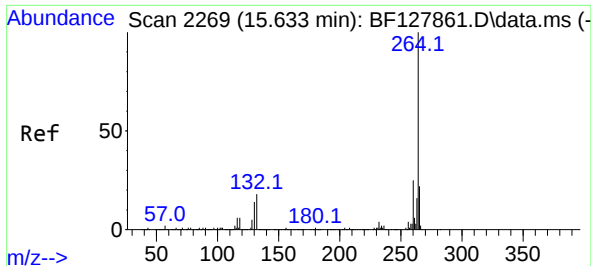
Reviewed By :Christian Giraldo 05/06/2022
Supervised By :mohammad ahmed 05/09/2022



#83
Chrysene
Concen: 7.221 ng
RT: 14.110 min Scan# 2010
Delta R.T. -0.012 min
Lab File: BF128108.D
Acq: 05 May 2022 21:48

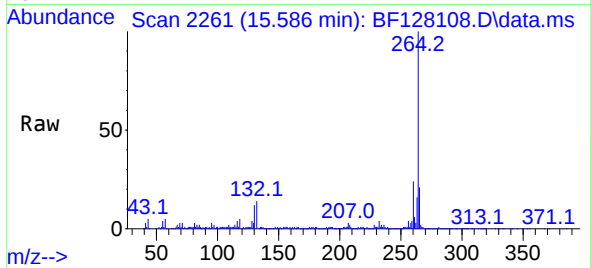
Tgt Ion:228 Resp: 86491
Ion Ratio Lower Upper
228 100
226 29.5 24.4 36.6
229 21.2 15.8 23.8





#86
Perylene-d12
Concen: 20.000 ng
RT: 15.586 min Scan# 21
Delta R.T. -0.006 min
Lab File: BF128108.D
Acq: 05 May 2022 21:48

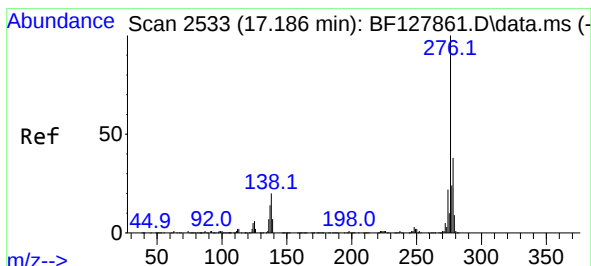
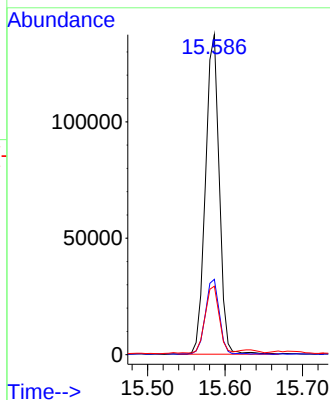
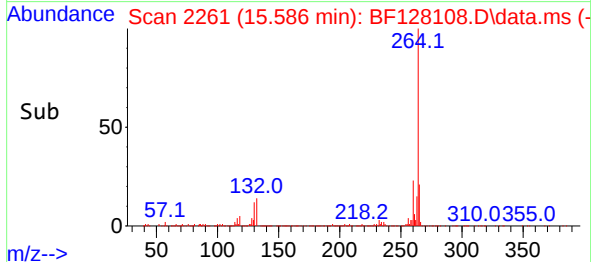
Instrument :
BNA_F
ClientSampleId :
75-HALSTAD-ST-STOCK-PILE



Tgt Ion:264 Resp: 169660
Ion Ratio Lower Upper
264 100
260 23.5 20.1 30.1
265 21.4 17.5 26.3

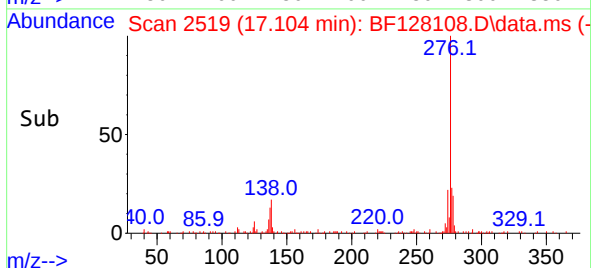
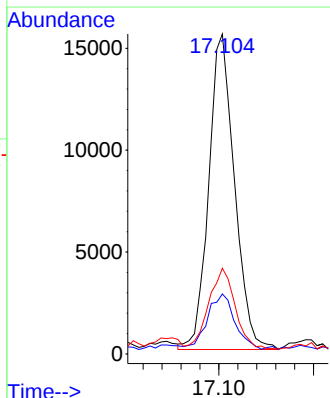
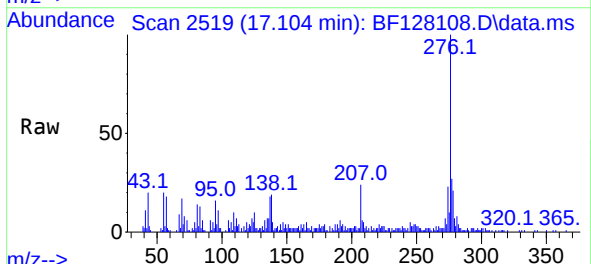
Manual Integrations
APPROVED

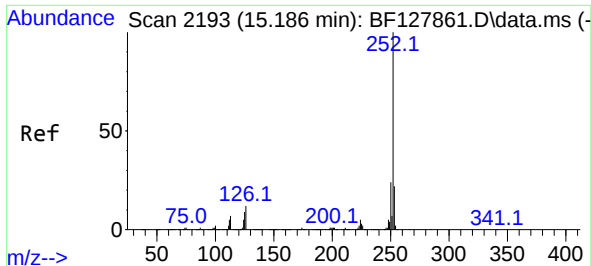
Reviewed By :Christian Giraldo 05/06/2022
Supervised By :mohammad ahmed 05/09/2022



#87
Indeno(1,2,3-cd)pyrene
Concen: 2.585 ng m
RT: 17.104 min Scan# 2519
Delta R.T. -0.023 min
Lab File: BF128108.D
Acq: 05 May 2022 21:48

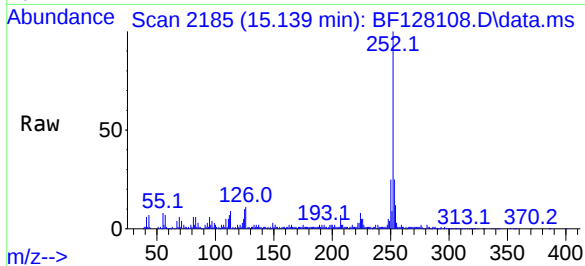
Tgt Ion:276 Resp: 29269
Ion Ratio Lower Upper
276 100
138 1.5 19.0 28.4#
277 1.5 20.1 30.1#





#88
Benzo(b)fluoranthene
Concen: 8.155 ng m
RT: 15.139 min Scan# 211
Delta R.T. -0.012 min
Lab File: BF128108.D
Acq: 05 May 2022 21:48

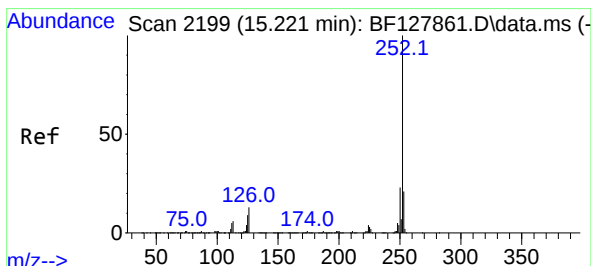
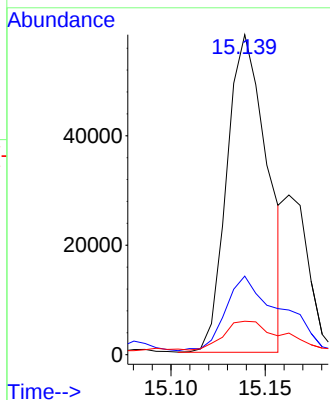
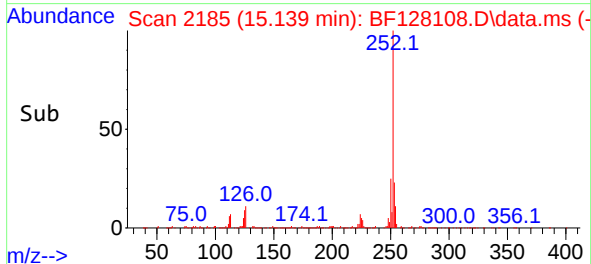
Instrument :
BNA_F
ClientSampleId :
75-HALSTAD-ST-STOCK-PILE



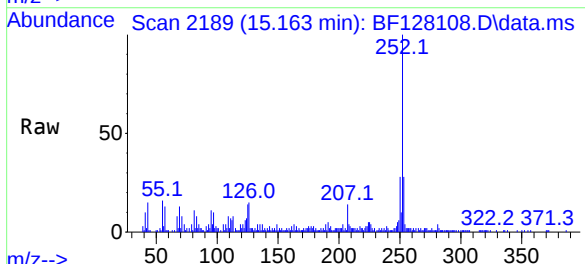
Tgt Ion:252 Resp: 86890
Ion Ratio Lower Upper
252 100
253 24.6 17.4 26.2
125 10.4 7.4 11.2

Manual Integrations
APPROVED

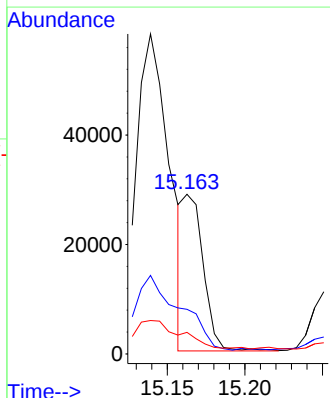
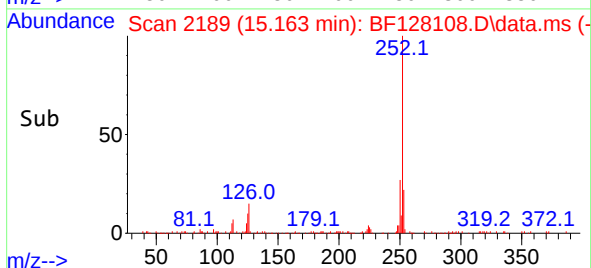
Reviewed By :Christian Giraldo 05/06/2022
Supervised By :mohammad ahmed 05/09/2022

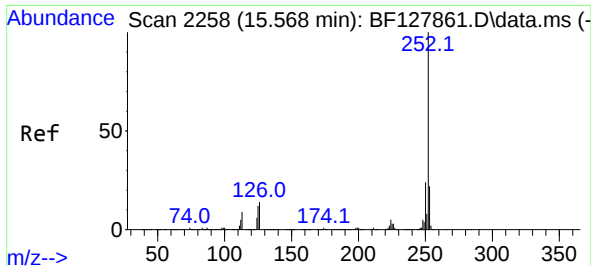


#89
Benzo(k)fluoranthene
Concen: 2.414 ng m
RT: 15.163 min Scan# 2189
Delta R.T. -0.017 min
Lab File: BF128108.D
Acq: 05 May 2022 21:48



Tgt Ion:252 Resp: 25919
Ion Ratio Lower Upper
252 100
253 28.0 17.0 25.4#
125 13.5 6.8 10.2#





#90

Benzo(a)pyrene

Concen: 6.884 ng

RT: 15.516 min Scan# 21

Delta R.T. -0.017 min

Lab File: BF128108.D

Acq: 05 May 2022 21:48

Instrument :

BNA_F

ClientSampleId :

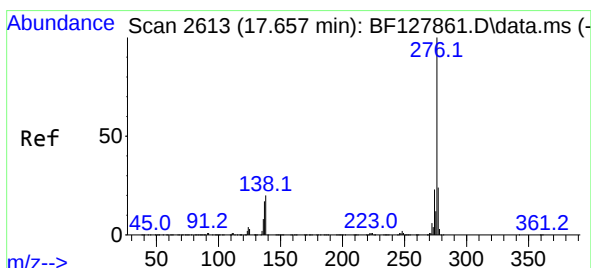
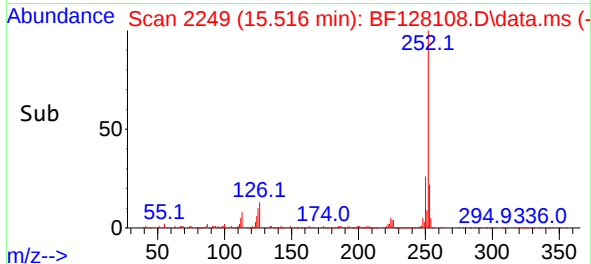
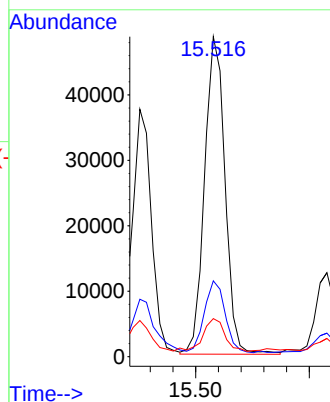
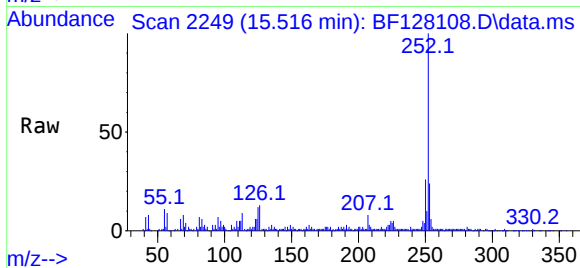
75-HALSTAD-ST-STOCK-PILE

Tgt Ion:252	Resp:	6085
Ion Ratio	Lower	Upper
252	100	
253	23.7	17.8 26.6
125	11.9	9.2 13.8

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 05/06/2022
Supervised By :mohammad ahmed 05/09/2022



#92

Benzo(g,h,i)perylene

Concen: 2.960 ng

RT: 17.562 min Scan# 2597

Delta R.T. -0.035 min

Lab File: BF128108.D

Acq: 05 May 2022 21:48

Tgt Ion:276	Resp:	28329
Ion Ratio	Lower	Upper
276	100	
277	27.2	18.8 28.2
138	18.9	16.2 24.2

