

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122321\
 Data File : BN018184.D
 Acq On : 23 Dec 2021 16:37
 Operator : CG/JU
 Sample : M5179-02
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 POST-EXCAVATION-BOTTOM-EAST

Quant Time: Dec 24 23:32:01 2021
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\8270-SIM-BN122321.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Dec 23 14:22:48 2021
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 12/27/2021
 Supervised By :mohammad ahmed 12/30/2021

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.624	152	21324	0.400	ng	0.00
7) Naphthalene-d8	10.394	136	93375	0.400	ng	# 0.00
13) Acenaphthene-d10	14.256	164	59615	0.400	ng	0.00
19) Phenanthrene-d10	16.993	188	125726	0.400	ng	0.00
29) Chrysene-d12	21.185	240	123997	0.400	ng	#-0.01
35) Perylene-d12	23.416	264	115519	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.254	112	13251	0.285	ng	0.03
5) Phenol-d6	6.822	99	14659	0.294	ng	0.00
8) Nitrobenzene-d5	8.772	82	17544m	0.279	ng	0.00
11) 2-Methylnaphthalene-d10	11.994	152	41642	0.260	ng	0.00
14) 2,4,6-Tribromophenol	15.753	330	5552	0.323	ng	0.00
15) 2-Fluorobiphenyl	12.886	172	63398	0.284	ng	0.00
27) Fluoranthene-d10	19.033	212	106003	0.266	ng	0.00
31) Terphenyl-d14	19.639	244	86574	0.317	ng	0.00
Target Compounds						Qvalue
9) Naphthalene	10.444	128	7626	0.033	ng	96
12) 2-Methylnaphthalene	12.069	142	4674	0.031	ng	98
16) Acenaphthylene	13.977	152	6493	0.029	ng	97
17) Acenaphthene	14.319	154	4655	0.030	ng	98
18) Fluorene	15.309	166	6037m	0.032	ng	
25) Phenanthrene	17.030	178	25243m	0.076	ng	
26) Anthracene	17.127	178	9385	0.034	ng	99
28) Fluoranthene	19.063	202	19320	0.050	ng	98
30) Pyrene	19.425	202	16297	0.041	ng	98
32) Benzo(a)anthracene	21.174	228	10938	0.030	ng	97
33) Chrysene	21.227	228	9808	0.025	ng	97
34) Bis(2-ethylhexyl)phtha...	21.121	149	20657	0.367	ng	99
37) Benzo(b)fluoranthene	22.752	252	8874	0.025	ng	# 73
38) Benzo(k)fluoranthene	22.793	252	8239	0.023	ng	# 65
39) Benzo(a)pyrene	23.320	252	7569	0.024	ng	# 64
40) Dibenzo(a,h)anthracene	25.702	278	4660	0.046	ng	# 67
41) Benzo(g,h,i)perylene	26.373	276	6336	0.021	ng	# 86

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

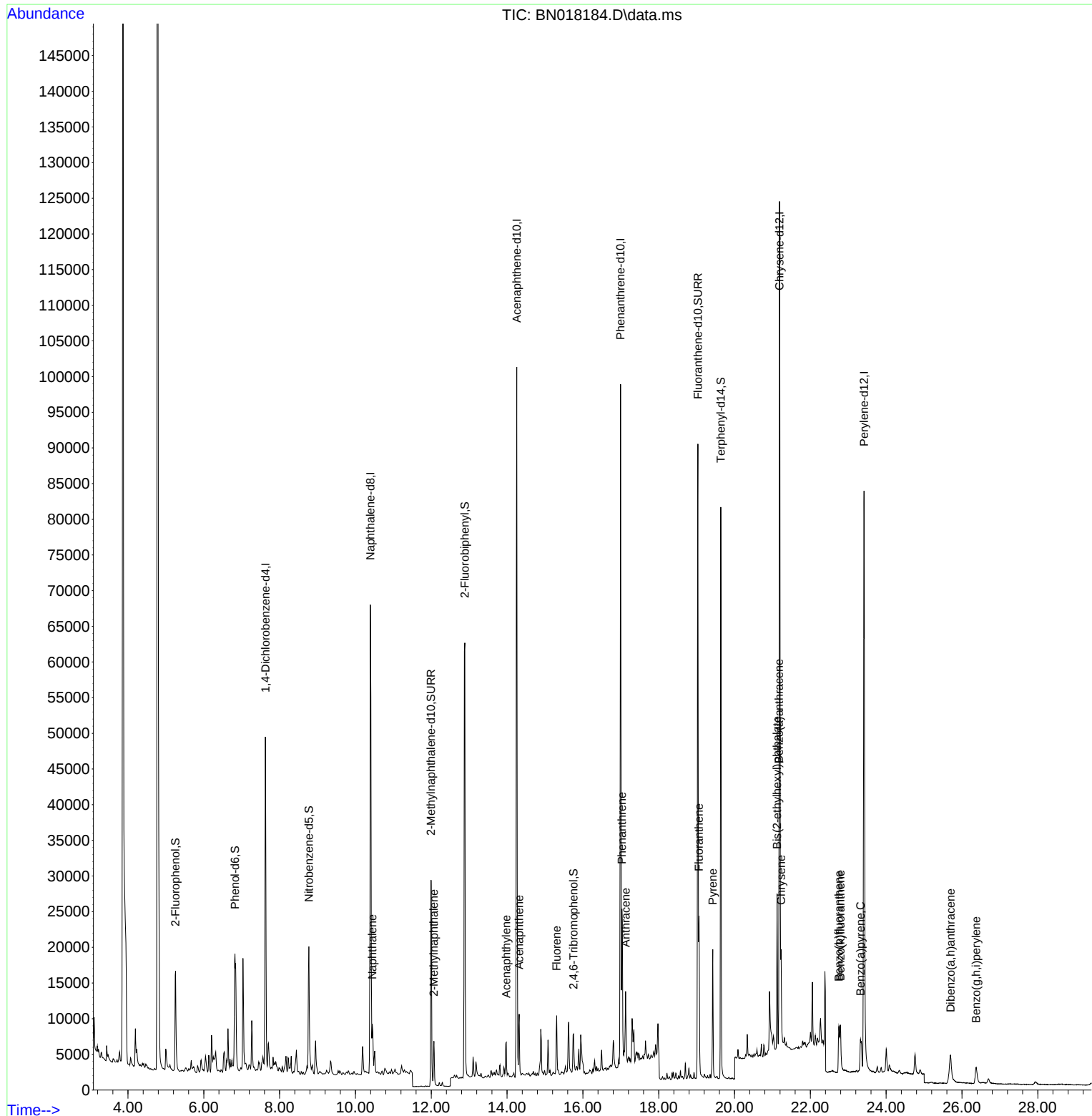
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122321\
Data File : BN018184.D
Acq On : 23 Dec 2021 16:37
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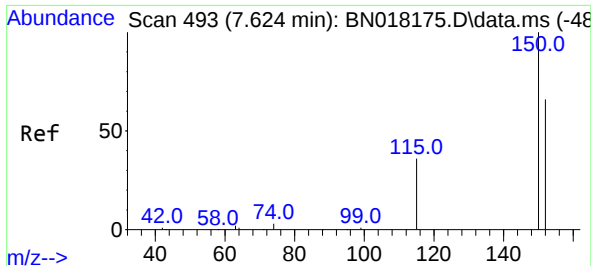
Instrument :
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POST-EXCAVATION-BOTTOM-EAST

Quant Time: Dec 24 23:32:01 2021
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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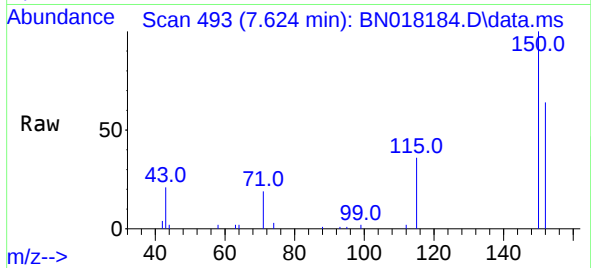
Reviewed By :Jagrut Upadhyay 12/27/2021
Supervised By :mohammad ahmed 12/30/2021





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.624 min Scan# 493
Delta R.T. -0.000 min
Lab File: BN018184.D
Acq: 23 Dec 2021 16:37

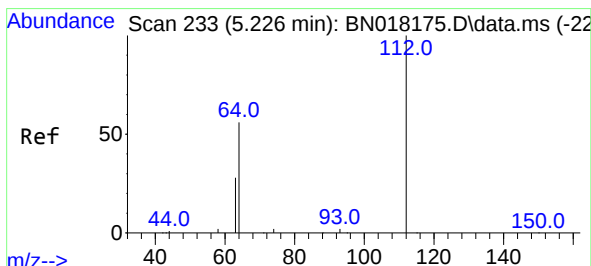
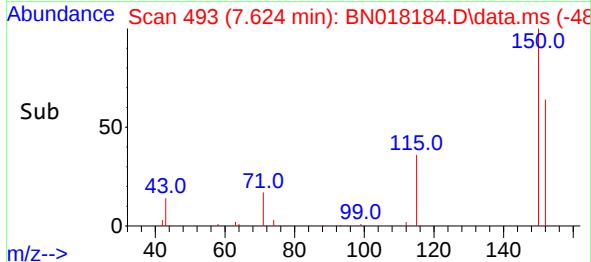
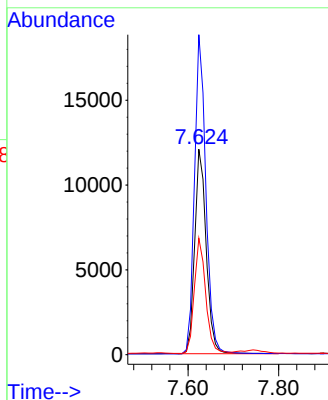
Instrument :
BNA_N
ClientSampleId :
POST-EXCAVATION-BOTTOM-EAST



Tgt Ion:152 Resp: 21324
Ion Ratio Lower Upper
152 100
150 155.7 121.7 182.5
115 56.7 43.8 65.8

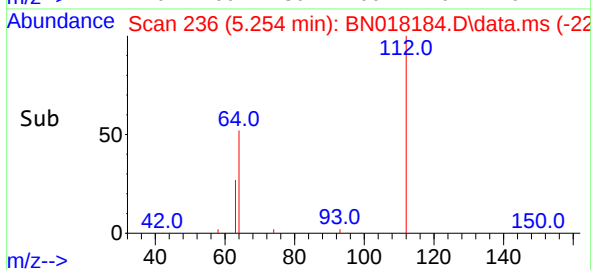
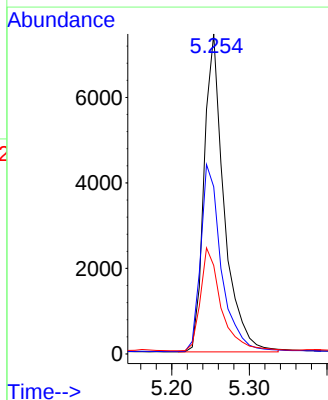
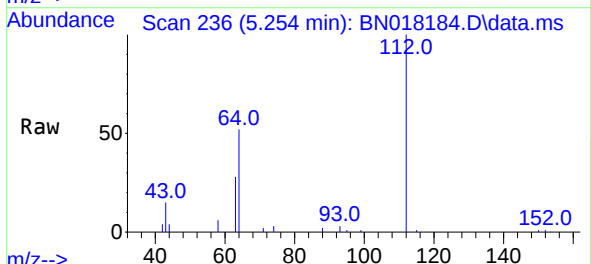
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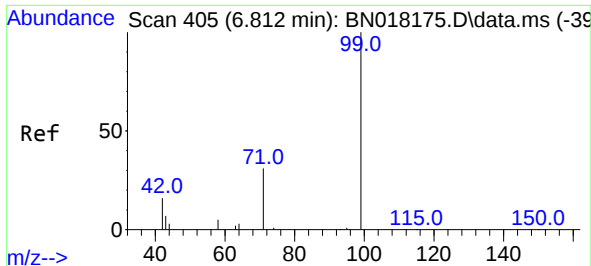
Reviewed By :Jagrut Upadhyay 12/27/2021
Supervised By :mohammad ahmed 12/30/2021



#4
2-Fluorophenol
Concen: 0.285 ng
RT: 5.254 min Scan# 236
Delta R.T. 0.028 min
Lab File: BN018184.D
Acq: 23 Dec 2021 16:37

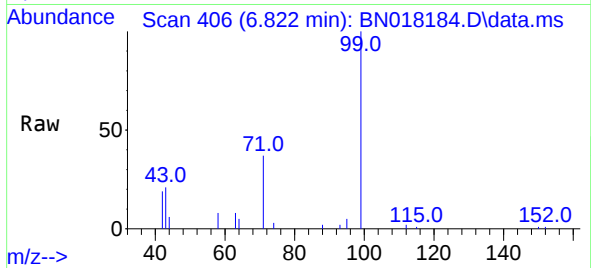
Tgt Ion:112 Resp: 13251
Ion Ratio Lower Upper
112 100
64 60.9 48.0 72.0
63 33.4 25.3 37.9





#5
Phenol-d6
Concen: 0.294 ng
RT: 6.822 min Scan# 405
Delta R.T. 0.010 min
Lab File: BN018184.D
Acq: 23 Dec 2021 16:37

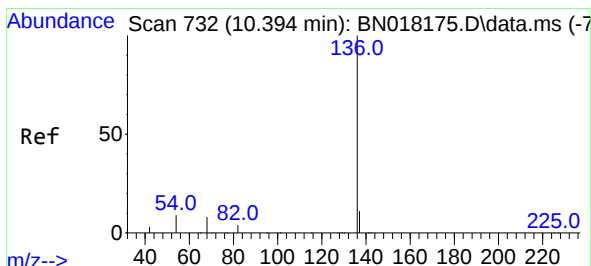
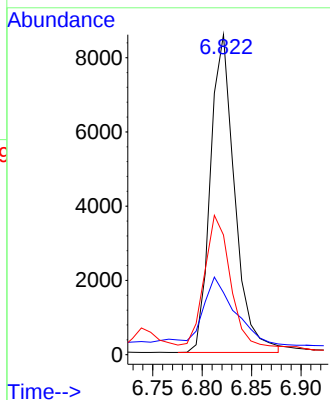
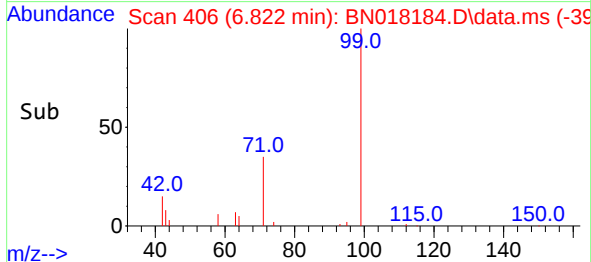
Instrument :
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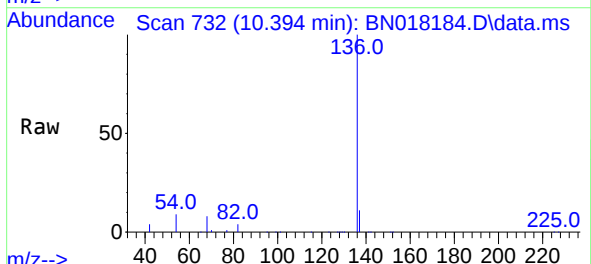
Tgt Ion: 99 Resp: 14659
Ion Ratio Lower Upper
99 100
42 27.9 16.3 24.5
71 43.1 26.8 40.2

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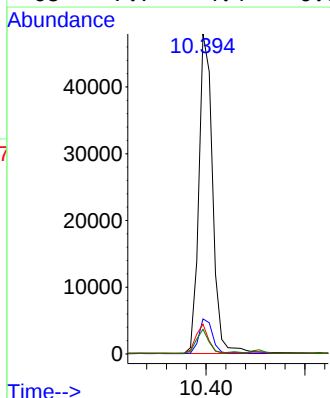
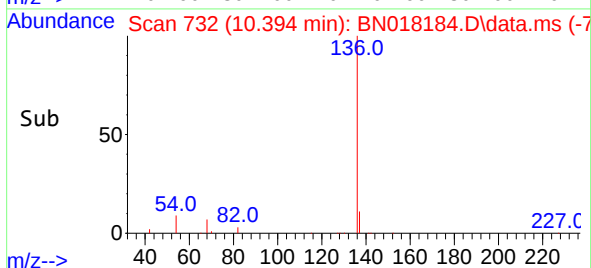
Reviewed By :Jagrut Upadhyay 12/27/2021
Supervised By :mohammad ahmed 12/30/2021

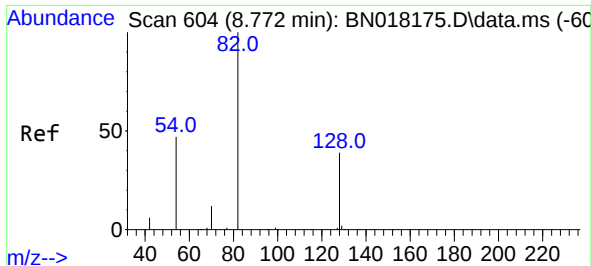


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.394 min Scan# 732
Delta R.T. -0.000 min
Lab File: BN018184.D
Acq: 23 Dec 2021 16:37



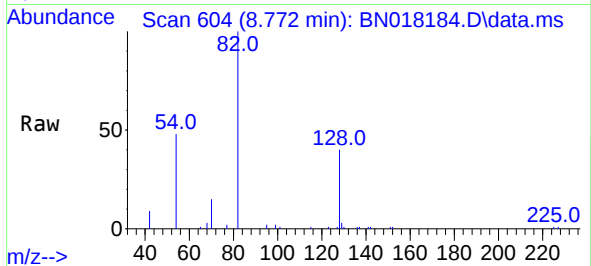
Tgt Ion:136 Resp: 93375
Ion Ratio Lower Upper
136 100
137 10.9 8.8 13.2
54 9.3 5.0 7.6#
68 7.7 4.4 6.6#





#8
Nitrobenzene-d5
Concen: 0.279 ng m
RT: 8.772 min Scan# 604
Delta R.T. -0.000 min
Lab File: BN018184.D
Acq: 23 Dec 2021 16:37

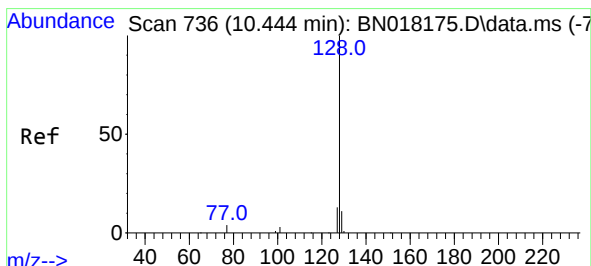
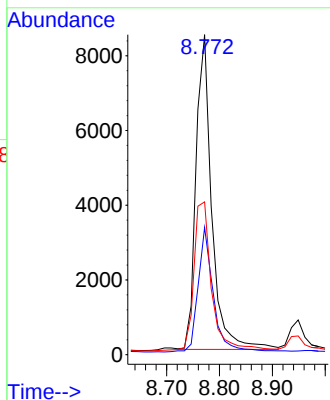
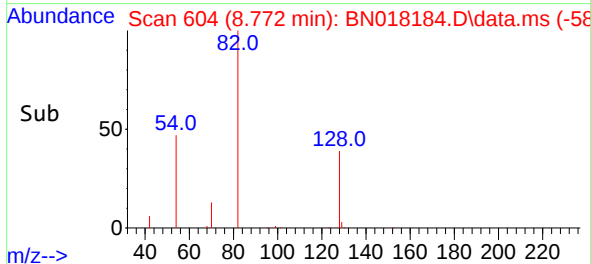
Instrument :
BNA_N
ClientSampleId :
POST-EXCAVATION-BOTTOM-EAST



Tgt Ion: 82 Resp: 17544
Ion Ratio Lower Upper
82 100
128 39.7 33.7 50.5
54 47.7 36.6 55.0

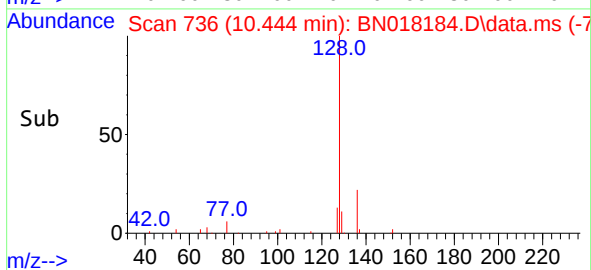
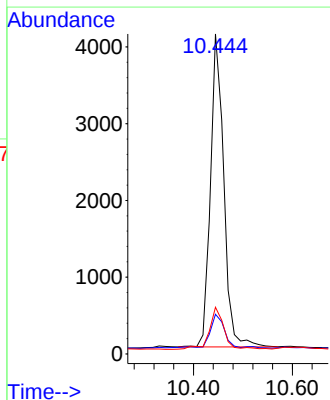
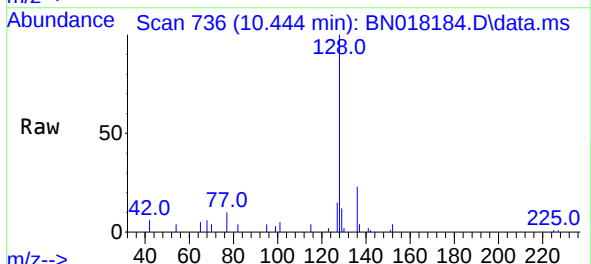
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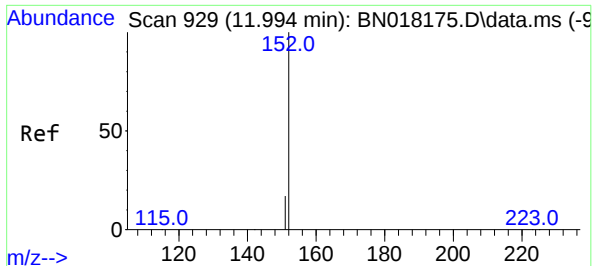
Reviewed By :Jagrut Upadhyay 12/27/2021
Supervised By :mohammad ahmed 12/30/2021



#9
Naphthalene
Concen: 0.033 ng
RT: 10.444 min Scan# 736
Delta R.T. 0.000 min
Lab File: BN018184.D
Acq: 23 Dec 2021 16:37

Tgt Ion:128 Resp: 7626
Ion Ratio Lower Upper
128 100
129 12.4 8.7 13.1
127 14.6 10.4 15.6





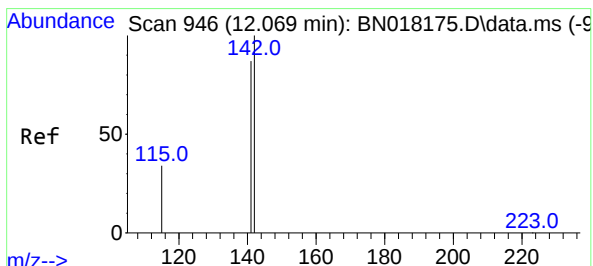
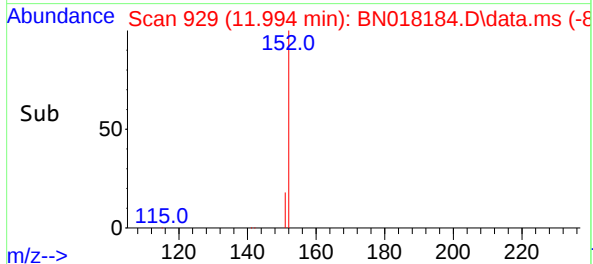
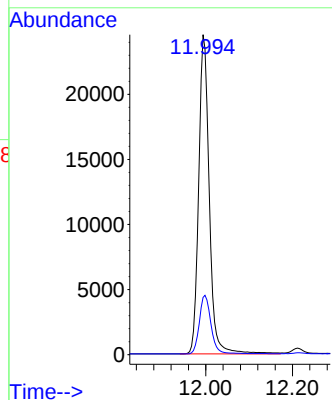
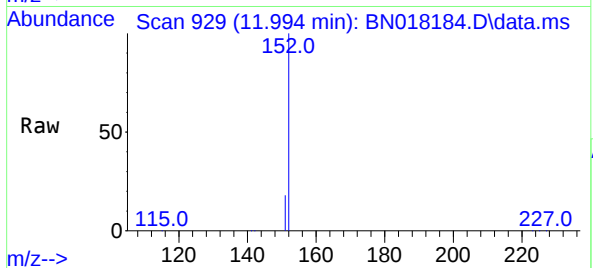
#11
2-Methylnaphthalene-d10
Concen: 0.260 ng
RT: 11.994 min Scan# 911
Delta R.T. -0.000 min
Lab File: BN018184.D
Acq: 23 Dec 2021 16:37

Instrument :
BNA_N
ClientSampleId :
POST-EXCAVATION-BOTTOM-EAST

Tgt Ion:152 Resp: 4164
Ion Ratio Lower Upper
152 100
151 20.4 16.2 24.2

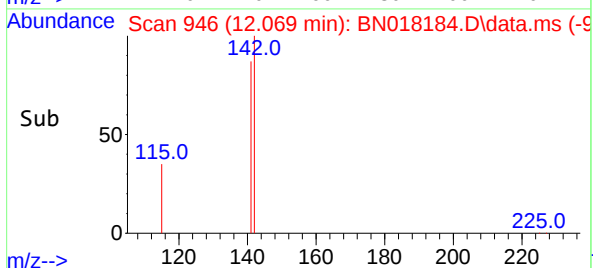
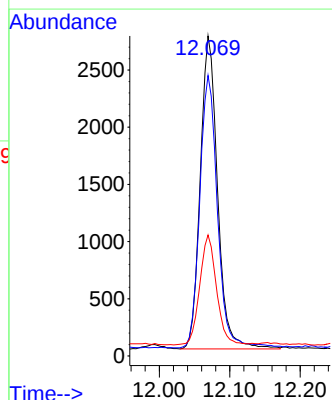
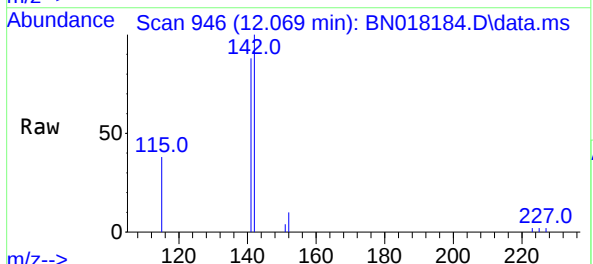
Manual Integrations
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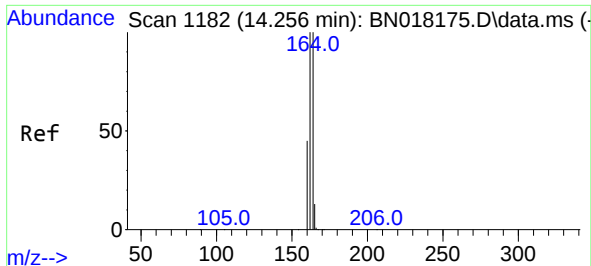
Reviewed By :Jagrut Upadhyay 12/27/2021
Supervised By :mohammad ahmed 12/30/2021



#12
2-Methylnaphthalene
Concen: 0.031 ng
RT: 12.069 min Scan# 946
Delta R.T. 0.000 min
Lab File: BN018184.D
Acq: 23 Dec 2021 16:37

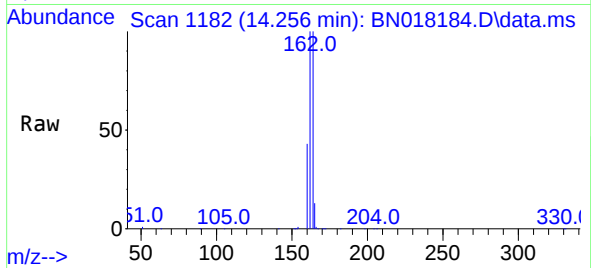
Tgt Ion:142 Resp: 4674
Ion Ratio Lower Upper
142 100
141 87.7 70.0 105.0
115 37.8 27.8 41.8





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.256 min Scan# 1182
Delta R.T. -0.000 min
Lab File: BN018184.D
Acq: 23 Dec 2021 16:37

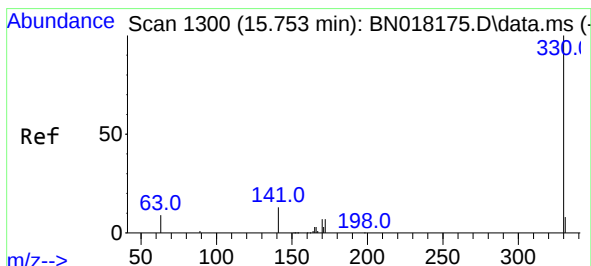
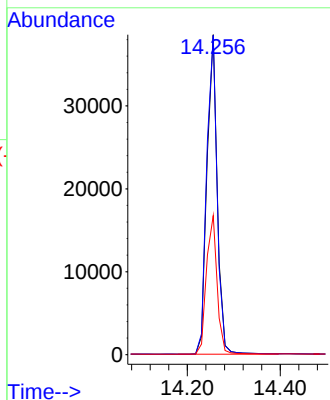
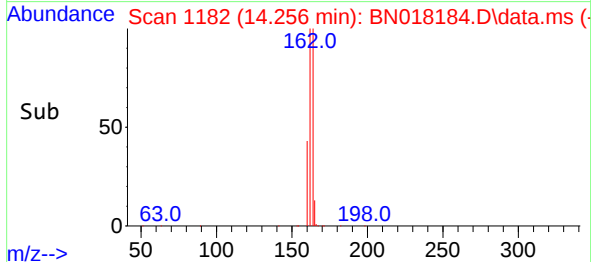
Instrument : BNA_N
ClientSampleId : POST-EXCAVATION-BOTTOM-EAST



Tgt Ion:164 Resp: 5961
Ion Ratio Lower Upper
164 100
162 99.8 80.2 120.2
160 43.4 36.9 55.3

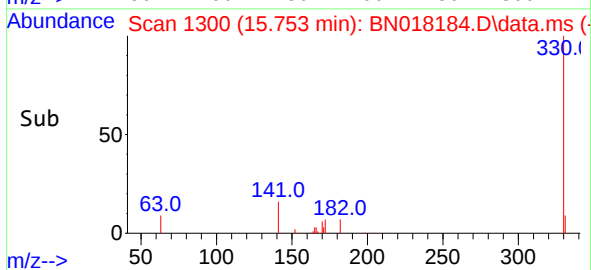
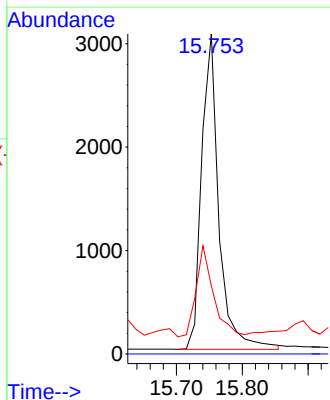
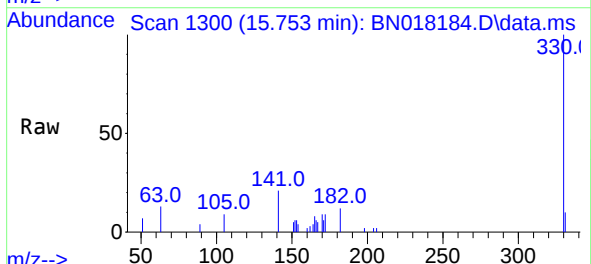
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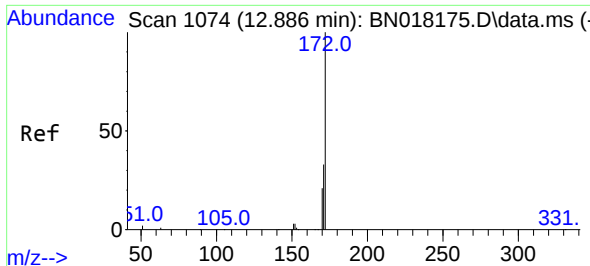
Reviewed By :Jagrut Upadhyay 12/27/2021
Supervised By :mohammad ahmed 12/30/2021



#14
2,4,6-Tribromophenol
Concen: 0.323 ng
RT: 15.753 min Scan# 1300
Delta R.T. -0.000 min
Lab File: BN018184.D
Acq: 23 Dec 2021 16:37

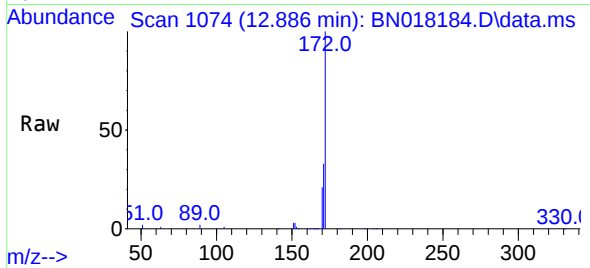
Tgt Ion:330 Resp: 5552
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 29.2 21.3 31.9





#15
2-Fluorobiphenyl
Concen: 0.284 ng
RT: 12.886 min Scan# 1074
Delta R.T. -0.000 min
Lab File: BN018184.D
Acq: 23 Dec 2021 16:37

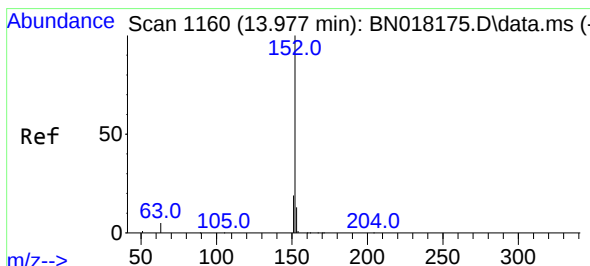
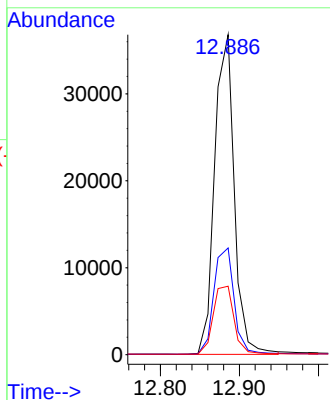
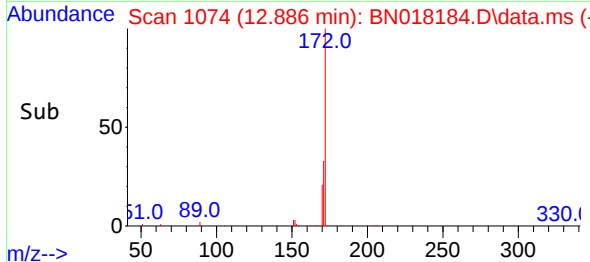
Instrument : BNA_N
ClientSampleId : POST-EXCAVATION-BOTTOM-EAST



Tgt Ion:172 Resp: 63398
Ion Ratio Lower Upper
172 100
171 33.3 27.4 41.0
170 21.4 18.4 27.6

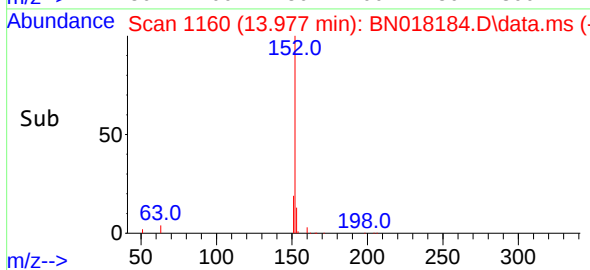
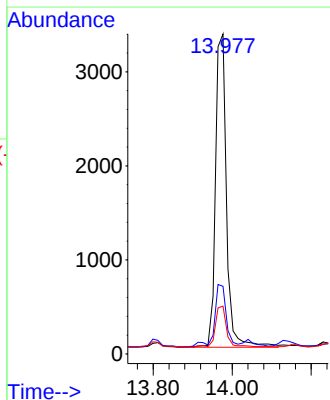
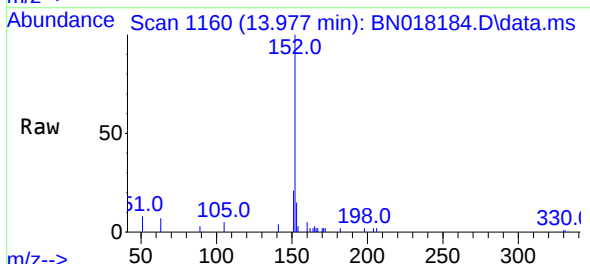
Manual Integrations
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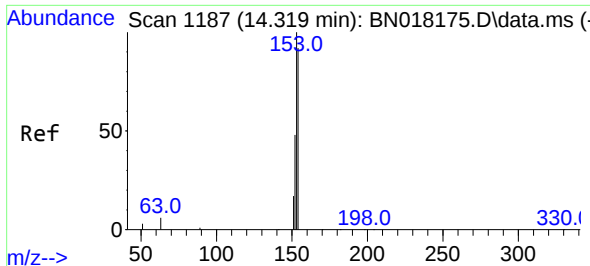
Reviewed By :Jagrut Upadhyay 12/27/2021
Supervised By :mohammad ahmed 12/30/2021



#16
Acenaphthylene
Concen: 0.029 ng
RT: 13.977 min Scan# 1160
Delta R.T. -0.000 min
Lab File: BN018184.D
Acq: 23 Dec 2021 16:37

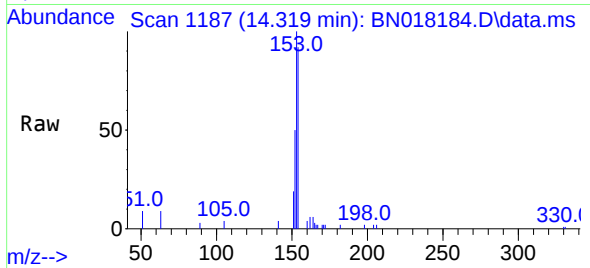
Tgt Ion:152 Resp: 6493
Ion Ratio Lower Upper
152 100
151 21.2 15.8 23.6
153 14.0 10.5 15.7





#17
Acenaphthene
Concen: 0.030 ng
RT: 14.319 min Scan# 1187
Delta R.T. 0.000 min
Lab File: BN018184.D
Acq: 23 Dec 2021 16:37

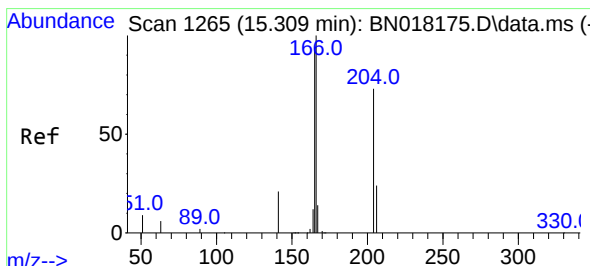
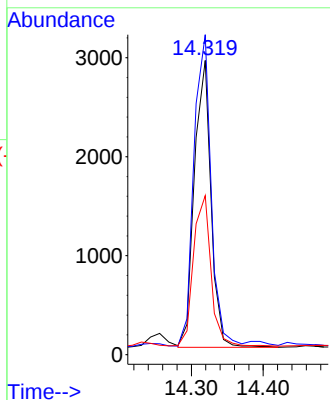
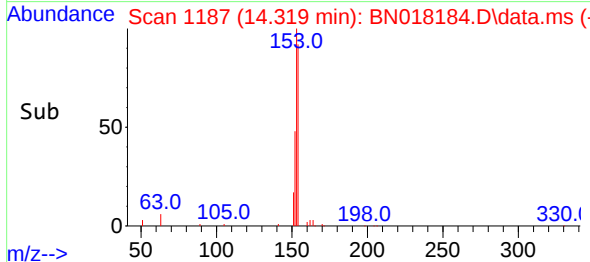
Instrument :
BNA_N
ClientSampleId :
POST-EXCAVATION-BOTTOM-EAST



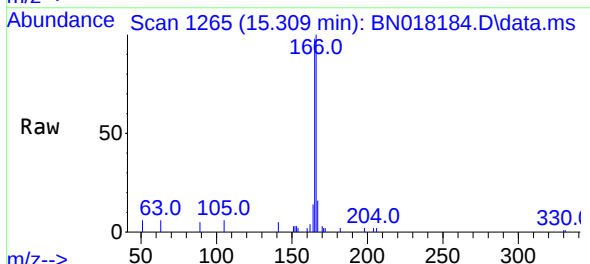
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Ion Ratio Lower Upper
154 100
153 111.5 90.9 136.3
152 55.6 45.0 67.4

Manual Integrations
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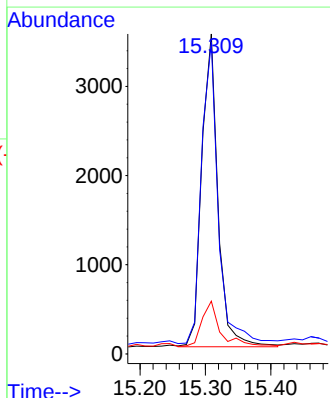
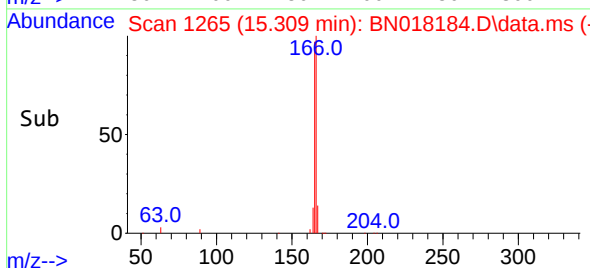
Reviewed By :Jagrut Upadhyay 12/27/2021
Supervised By :mohammad ahmed 12/30/2021

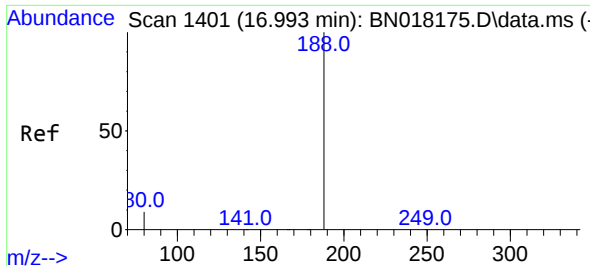


#18
Fluorene
Concen: 0.032 ng m
RT: 15.309 min Scan# 1265
Delta R.T. -0.000 min
Lab File: BN018184.D
Acq: 23 Dec 2021 16:37



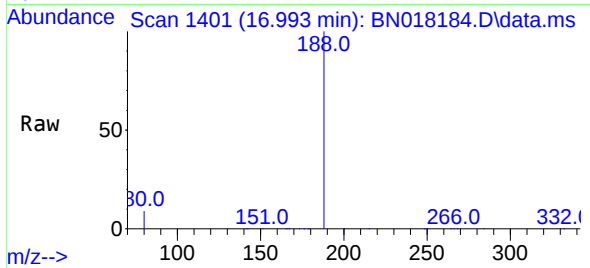
Tgt Ion:166 Resp: 6037
Ion Ratio Lower Upper
166 100
165 98.6 77.8 116.6
167 16.5 10.9 16.3#





#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.993 min Scan# 1401
Delta R.T. 0.000 min
Lab File: BN018184.D
Acq: 23 Dec 2021 16:37

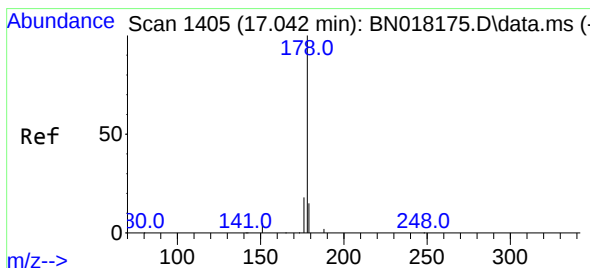
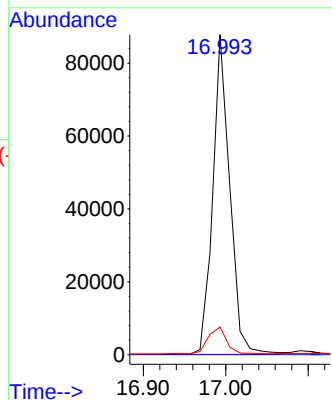
Instrument :
BNA_N
ClientSampleId :
POST-EXCAVATION-BOTTOM-EAST



Tgt Ion:188 Resp: 125720
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 8.7 7.0 10.4

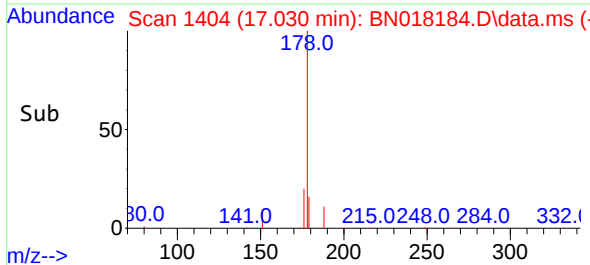
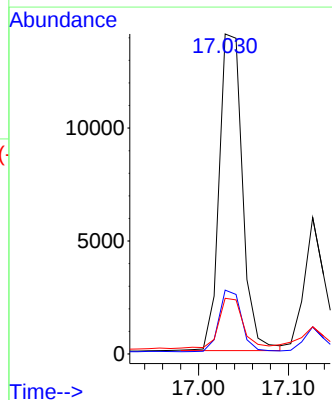
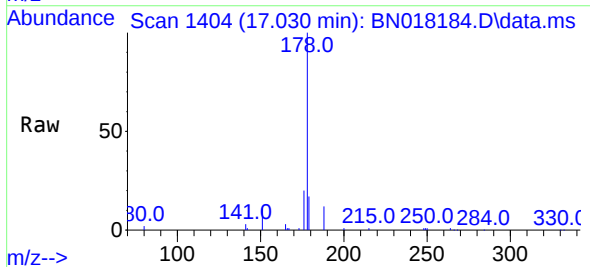
Manual Integrations
APPROVED

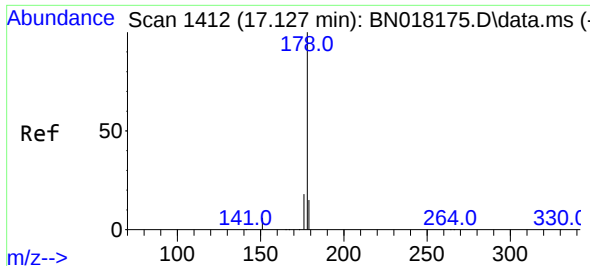
Reviewed By :Jagrut Upadhyay 12/27/2021
Supervised By :mohammad ahmed 12/30/2021



#25
Phenanthrene
Concen: 0.076 ng m
RT: 17.030 min Scan# 1404
Delta R.T. -0.012 min
Lab File: BN018184.D
Acq: 23 Dec 2021 16:37

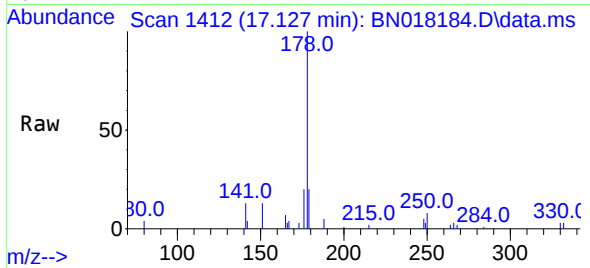
Tgt Ion:178 Resp: 25243
Ion Ratio Lower Upper
178 100
176 18.9 15.3 22.9
179 18.0 12.3 18.5





#26
 Anthracene
 Concen: 0.034 ng
 RT: 17.127 min Scan# 1412
 Delta R.T. -0.000 min
 Lab File: BN018184.D
 Acq: 23 Dec 2021 16:37

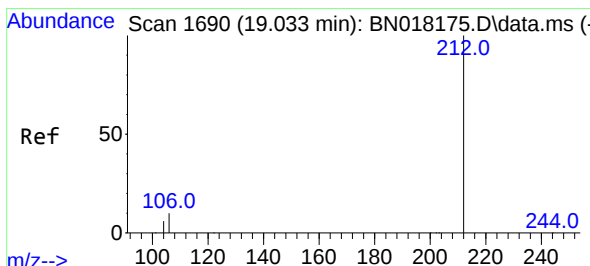
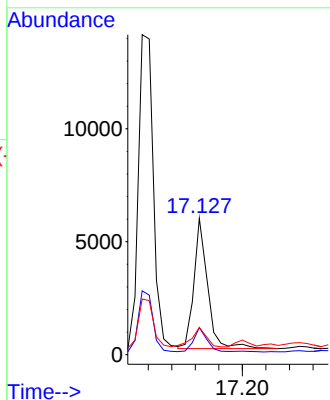
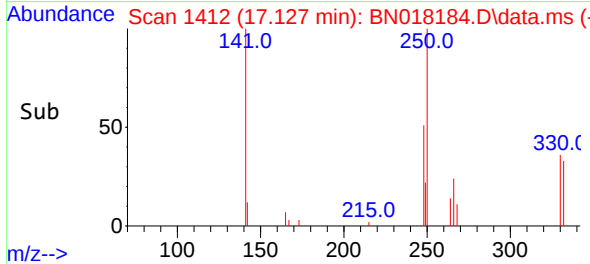
Instrument :
 BNA_N
 ClientSampleId :
 POST-EXCAVATION-BOTTOM-EAST



Tgt Ion:178 Resp: 938
 Ion Ratio Lower Upper
 178 100
 176 18.8 14.8 22.2
 179 15.5 12.2 18.4

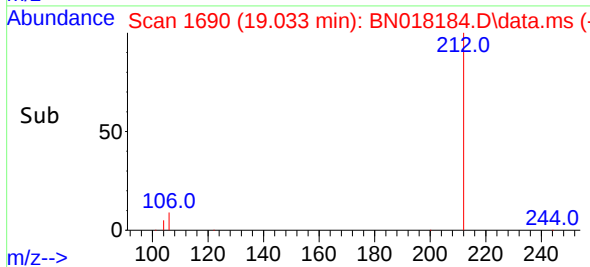
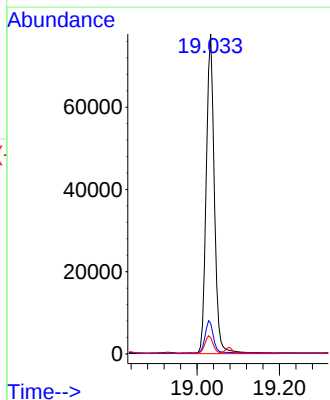
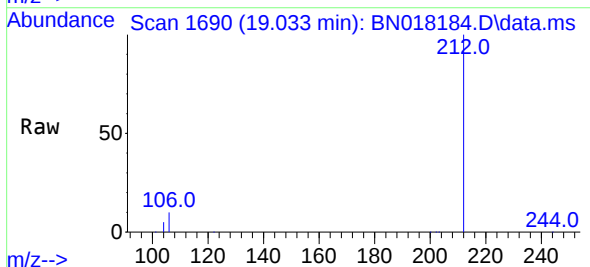
Manual Integrations
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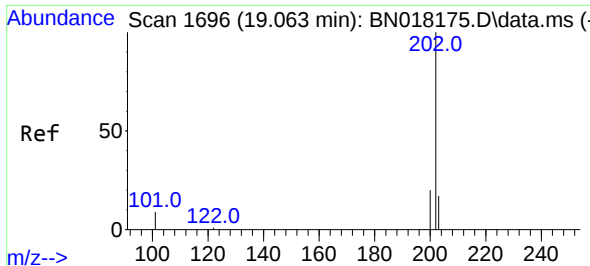
Reviewed By :Jagrut Upadhyay 12/27/2021
 Supervised By :mohammad ahmed 12/30/2021



#27
 Fluoranthene-d10
 Concen: 0.266 ng
 RT: 19.033 min Scan# 1690
 Delta R.T. -0.000 min
 Lab File: BN018184.D
 Acq: 23 Dec 2021 16:37

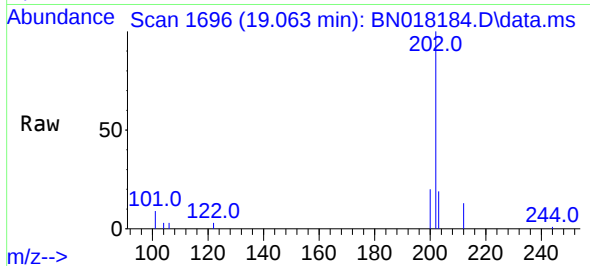
Tgt Ion:212 Resp: 106003
 Ion Ratio Lower Upper
 212 100
 106 10.0 8.4 12.6
 104 5.5 4.5 6.7





#28
Fluoranthene
Concen: 0.050 ng
RT: 19.063 min Scan# 10
Delta R.T. -0.000 min
Lab File: BN018184.D
Acq: 23 Dec 2021 16:37

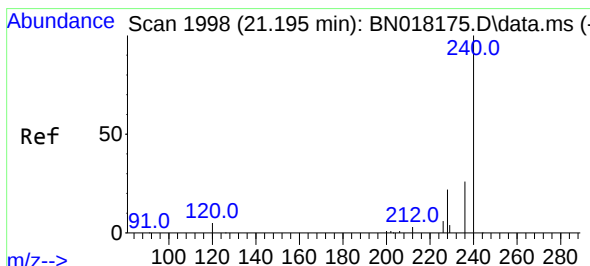
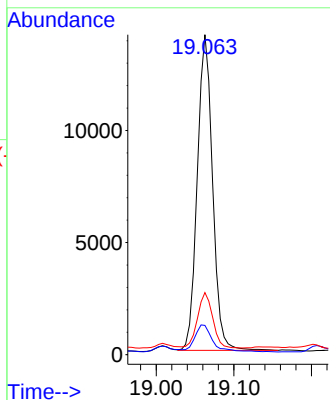
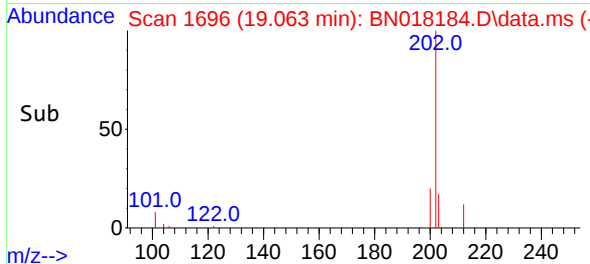
Instrument :
BNA_N
ClientSampleId :
POST-EXCAVATION-BOTTOM-EAST



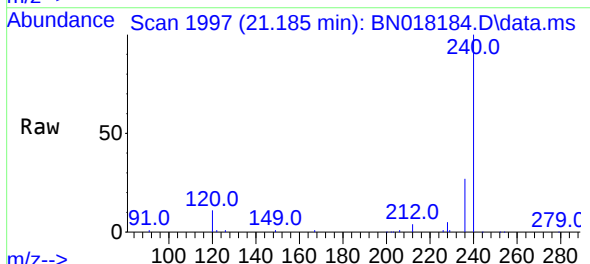
Tgt Ion:202 Resp: 19320
Ion Ratio Lower Upper
202 100
101 10.1 7.2 10.8
203 17.5 13.7 20.5

Manual Integrations
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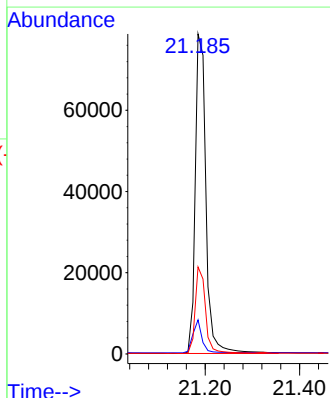
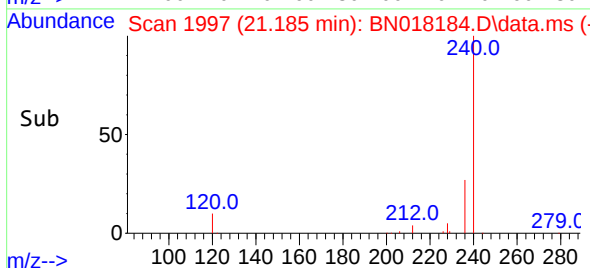
Reviewed By :Jagrut Upadhyay 12/27/2021
Supervised By :mohammad ahmed 12/30/2021

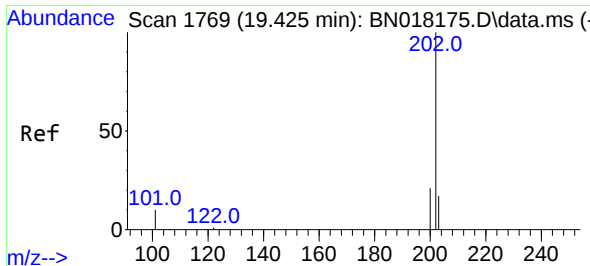


#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.185 min Scan# 1997
Delta R.T. -0.010 min
Lab File: BN018184.D
Acq: 23 Dec 2021 16:37



Tgt Ion:240 Resp: 123997
Ion Ratio Lower Upper
240 100
120 10.7 6.0 9.0#
236 27.2 21.4 32.2





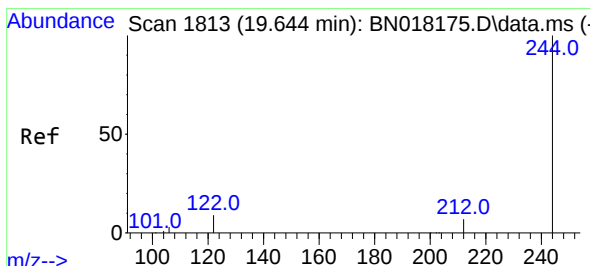
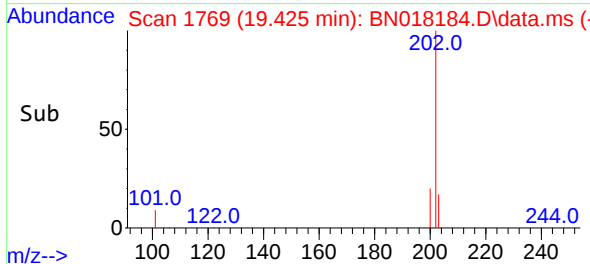
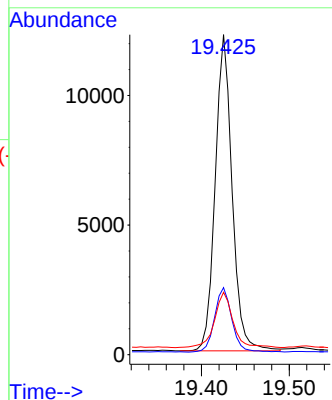
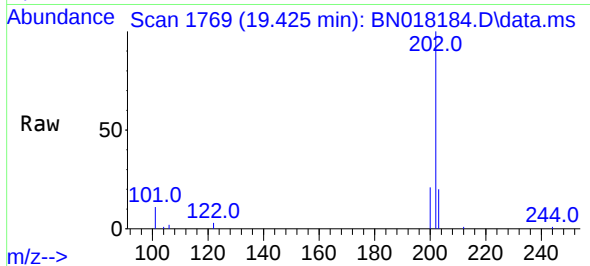
#30
Pyrene
Concen: 0.041 ng
RT: 19.425 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN018184.D
Acq: 23 Dec 2021 16:37

Instrument :
BNA_N
ClientSampleId :
POST-EXCAVATION-BOTTOM-EAST

Tgt Ion:202 Resp: 1629
Ion Ratio Lower Upper
202 100
200 20.8 16.6 25.0
203 19.1 14.1 21.1

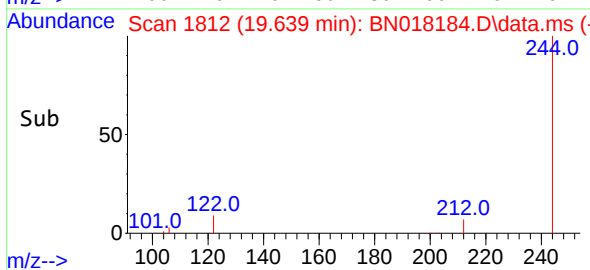
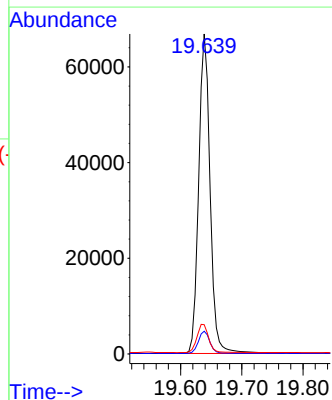
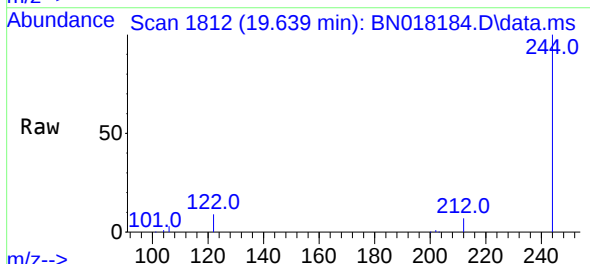
Manual Integrations
APPROVED

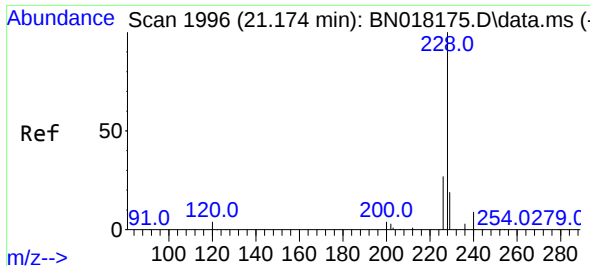
Reviewed By :Jagrut Upadhyay 12/27/2021
Supervised By :mohammad ahmed 12/30/2021



#31
Terphenyl-d14
Concen: 0.317 ng
RT: 19.639 min Scan# 1812
Delta R.T. -0.005 min
Lab File: BN018184.D
Acq: 23 Dec 2021 16:37

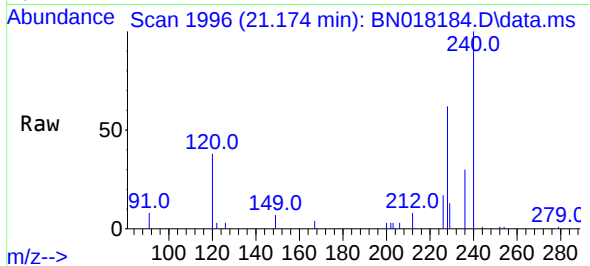
Tgt Ion:244 Resp: 86574
Ion Ratio Lower Upper
244 100
212 7.1 6.2 9.2
122 9.2 7.9 11.9





#32
Benzo(a)anthracene
Concen: 0.030 ng
RT: 21.174 min Scan# 1996
Delta R.T. 0.000 min
Lab File: BN018184.D
Acq: 23 Dec 2021 16:37

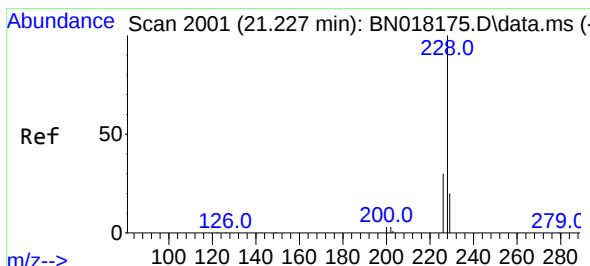
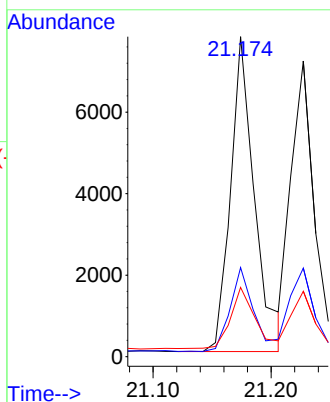
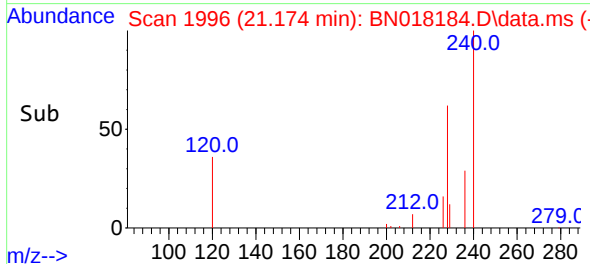
Instrument :
BNA_N
ClientSampleId :
POST-EXCAVATION-BOTTOM-EAST



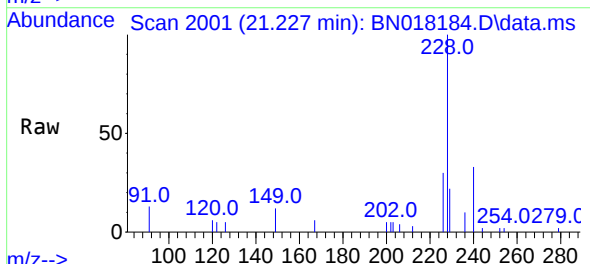
Tgt Ion:228 Resp: 10938
Ion Ratio Lower Upper
228 100
226 27.9 21.3 31.9
229 21.7 15.9 23.9

Manual Integrations
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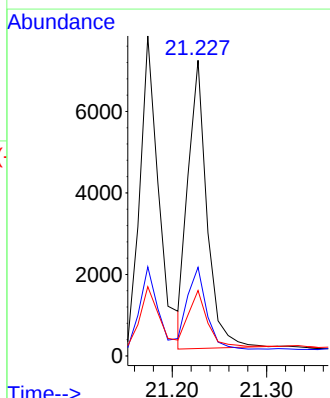
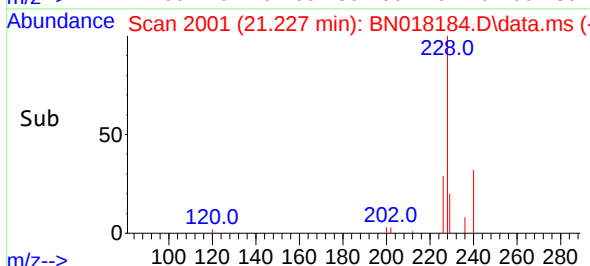
Reviewed By :Jagrut Upadhyay 12/27/2021
Supervised By :mohammad ahmed 12/30/2021

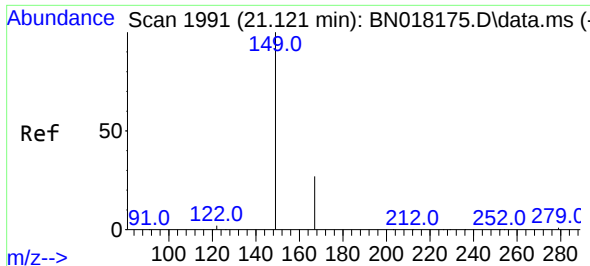


#33
Chrysene
Concen: 0.025 ng
RT: 21.227 min Scan# 2001
Delta R.T. 0.000 min
Lab File: BN018184.D
Acq: 23 Dec 2021 16:37



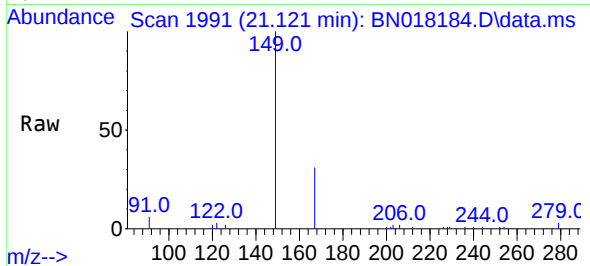
Tgt Ion:228 Resp: 9808
Ion Ratio Lower Upper
228 100
226 30.0 24.2 36.4
229 22.1 15.5 23.3





#34
Bis(2-ethylhexyl)phthalate
Concen: 0.367 ng
RT: 21.121 min Scan# 1991
Delta R.T. 0.000 min
Lab File: BN018184.D
Acq: 23 Dec 2021 16:37

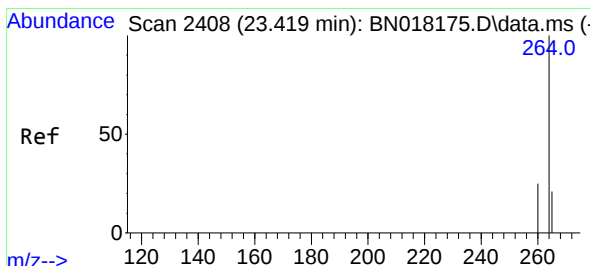
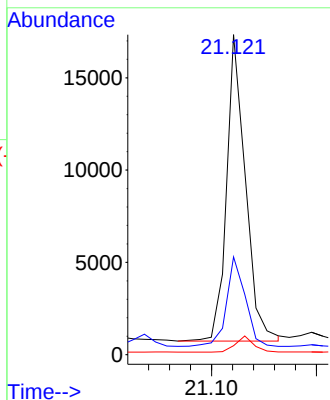
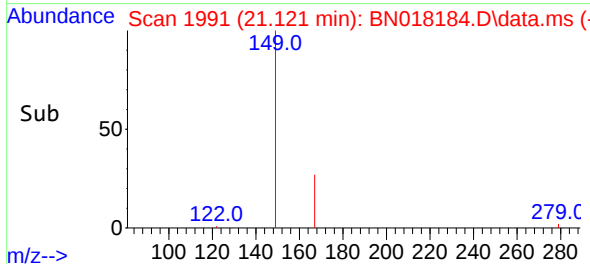
Instrument : BNA_N
ClientSampleId : POST-EXCAVATION-BOTTOM-EAST



Tgt Ion:149 Resp: 2065
Ion Ratio Lower Upper
149 100
167 29.1 23.7 35.5
279 5.0 3.6 5.4

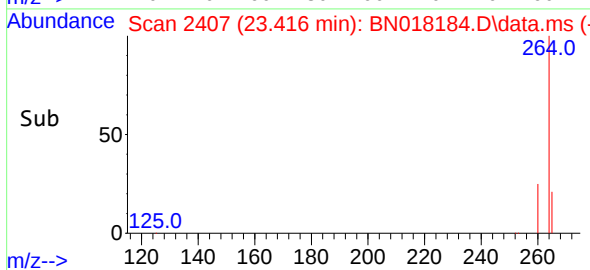
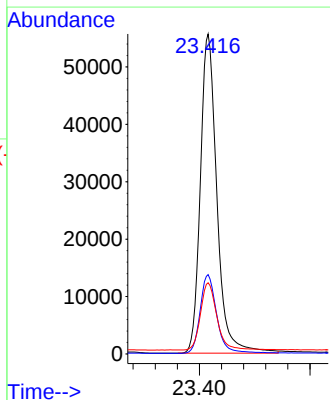
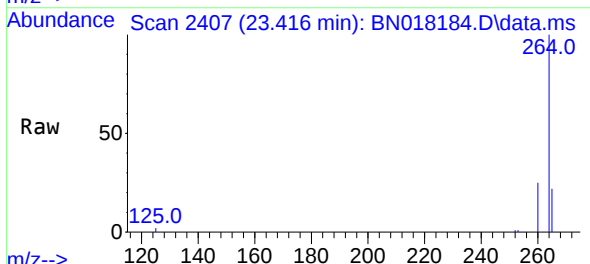
Manual Integrations
APPROVED

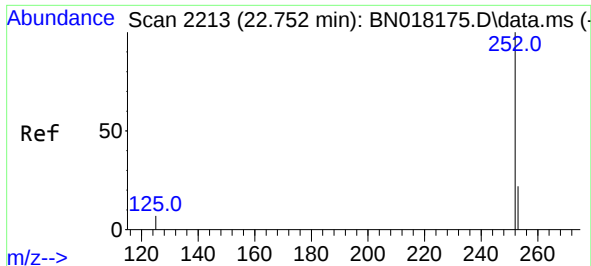
Reviewed By :Jagrut Upadhyay 12/27/2021
Supervised By :mohammad ahmed 12/30/2021



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.416 min Scan# 2407
Delta R.T. -0.003 min
Lab File: BN018184.D
Acq: 23 Dec 2021 16:37

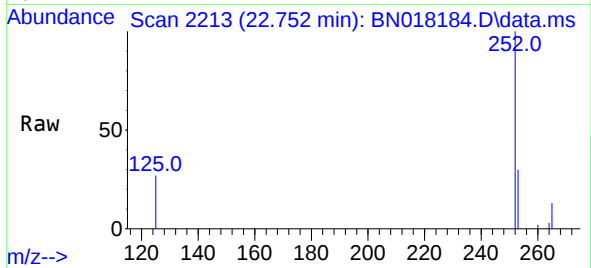
Tgt Ion:264 Resp: 115519
Ion Ratio Lower Upper
264 100
260 24.8 20.2 30.4
265 22.3 18.2 27.2





#37
Benzo(b)fluoranthene
Concen: 0.025 ng
RT: 22.752 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN018184.D
Acq: 23 Dec 2021 16:37

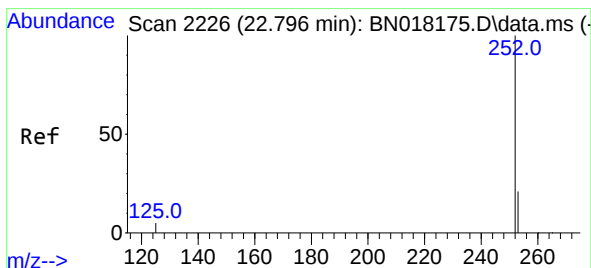
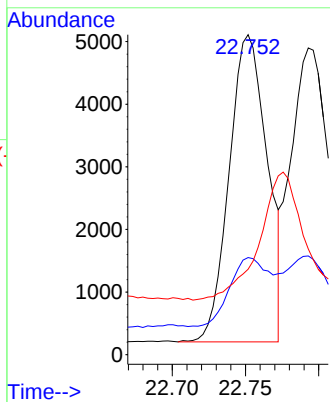
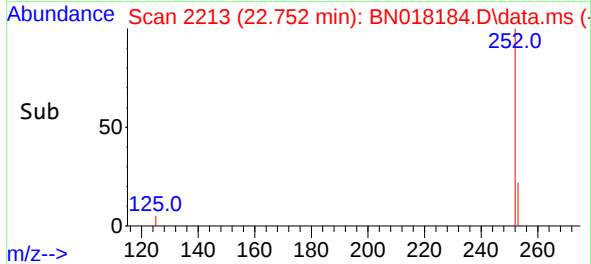
Instrument :
BNA_N
ClientSampleId :
POST-EXCAVATION-BOTTOM-EAST



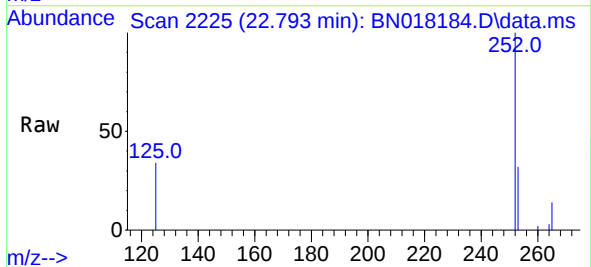
Tgt Ion:252 Resp: 8874
Ion Ratio Lower Upper
252 100
253 30.4 17.8 26.6#
125 26.7 6.0 9.0#

Manual Integrations
APPROVED

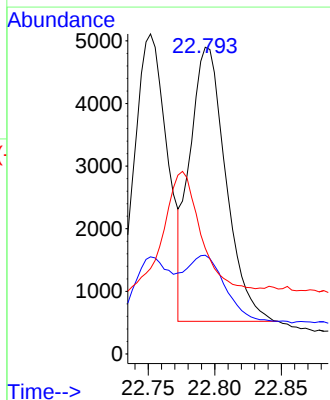
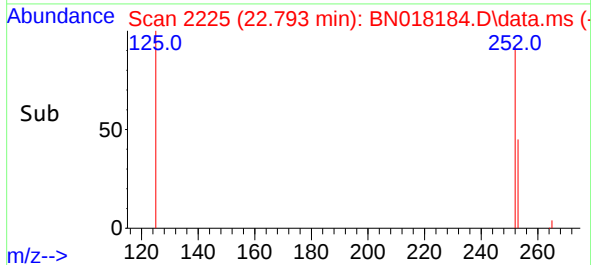
Reviewed By :Jagrut Upadhyay 12/27/2021
Supervised By :mohammad ahmed 12/30/2021

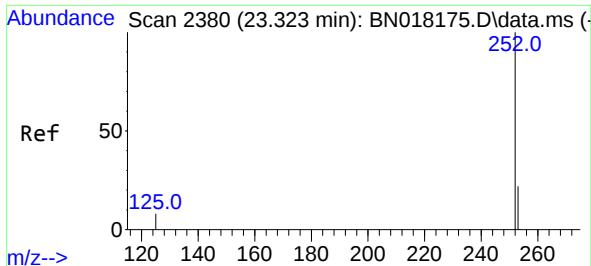


#38
Benzo(k)fluoranthene
Concen: 0.023 ng
RT: 22.793 min Scan# 2225
Delta R.T. -0.003 min
Lab File: BN018184.D
Acq: 23 Dec 2021 16:37



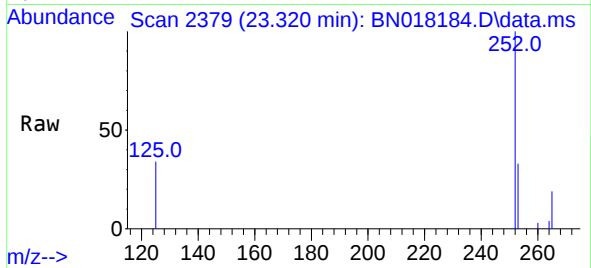
Tgt Ion:252 Resp: 8239
Ion Ratio Lower Upper
252 100
253 32.2 17.7 26.5#
125 34.5 6.2 9.2#





#39
Benzo(a)pyrene
Concen: 0.024 ng
RT: 23.320 min Scan# 21
Delta R.T. -0.003 min
Lab File: BN018184.D
Acq: 23 Dec 2021 16:37

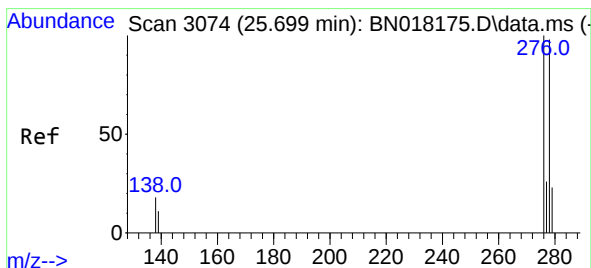
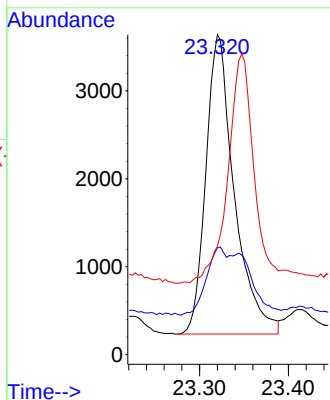
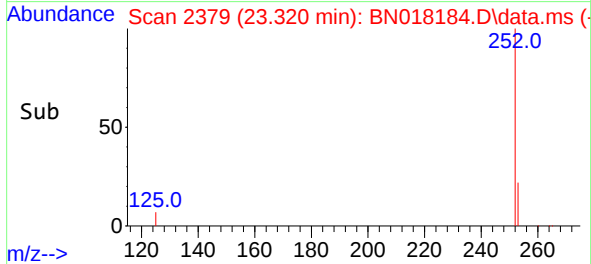
Instrument :
BNA_N
ClientSampleId :
POST-EXCAVATION-BOTTOM-EAST



Tgt Ion:252 Resp: 7569
Ion Ratio Lower Upper
252 100
253 33.3 17.8 26.6#
125 33.9 7.0 10.4#

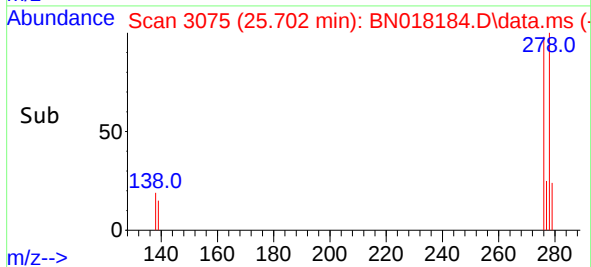
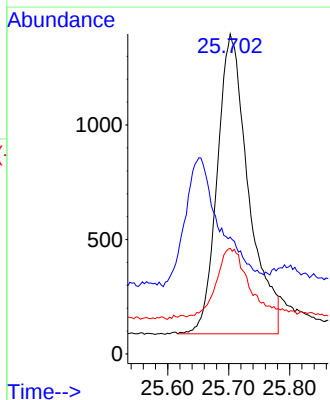
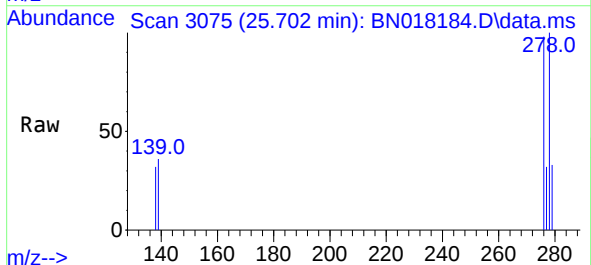
Manual Integrations
APPROVED

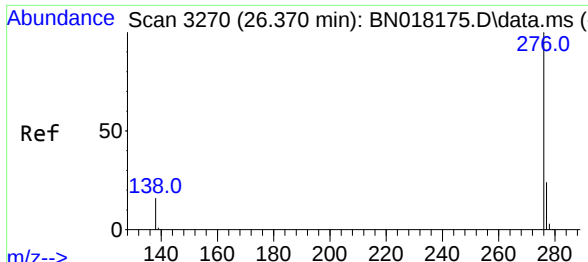
Reviewed By :Jagrut Upadhyay 12/27/2021
Supervised By :mohammad ahmed 12/30/2021



#40
Dibenzo(a,h)anthracene
Concen: 0.046 ng
RT: 25.702 min Scan# 3075
Delta R.T. 0.003 min
Lab File: BN018184.D
Acq: 23 Dec 2021 16:37

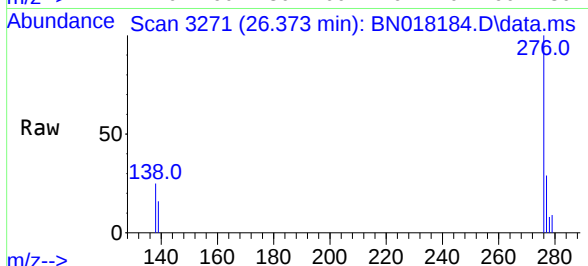
Tgt Ion:278 Resp: 4660
Ion Ratio Lower Upper
278 100
139 36.5 10.8 16.2#
279 33.0 19.0 28.4#





#41
Benzo(g,h,i)perylene
Concen: 0.021 ng
RT: 26.373 min Scan# 31
Delta R.T. 0.003 min
Lab File: BN018184.D
Acq: 23 Dec 2021 16:37

Instrument :
BNA_N
ClientSampleId :
POST-EXCAVATION-BOTTOM-EAST



Tgt Ion: 276 Resp: 6330
Ion Ratio Lower Upper
276 100
277 28.6 19.0 28.6
138 24.6 12.6 19.0

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 12/27/2021
Supervised By :mohammad ahmed 12/30/2021

