

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF061022\
 Data File : BF128768.D
 Acq On : 10 Jun 2022 19:45
 Operator : CG\JU
 Sample : N3203-01
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 GATE-6-JET-GROUT-SPOILS

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 06/13/2022
 Supervised By : Jagrut Upadhyay 06/13/2022

Quant Time: Jun 11 01:28:00 2022
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF060222.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jun 08 14:28:39 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.798	152	63381	20.000	ng	-0.01
21) Naphthalene-d8	8.086	136	241230	20.000	ng	-0.01
39) Acenaphthene-d10	9.839	164	135202	20.000	ng	-0.02
64) Phenanthrene-d10	11.333	188	222845	20.000	ng	# 0.00
76) Chrysene-d12	13.974	240	120646	20.000	ng	#-0.01
86) Perylene-d12	15.433	264	138480	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.451	112	37610	9.452	ng	0.00
7) Phenol-d6	6.457	99	255480	52.598	ng	-0.02
23) Nitrobenzene-d5	7.369	82	393081	75.867	ng	-0.01
42) 2,4,6-Tribromophenol	10.633	330	2237	1.400	ng	-0.02
45) 2-Fluorobiphenyl	9.163	172	768200	79.592	ng	-0.01
79) Terphenyl-d14	12.921	244	616915	88.853	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	8.116	128	2648762	213.953	ng	99
37) 2-Methylnaphthalene	8.804	142	1166904	148.189	ng	99
38) 1-Methylnaphthalene	8.904	142	838692	110.239	ng	99
46) 1,1'-Biphenyl	9.263	154	146719	14.463	ng	97
49) Acenaphthylene	9.704	152	145900	12.312	ng	# 95
52) Acenaphthene	9.874	154	246948	32.000	ng	96
55) Dibenzofuran	10.045	168	38385	3.461	ng	# 75
58) Fluorene	10.392	166	359199	41.761	ng	97
71) Phenanthrene	11.363	178	1241330	111.057	ng	99
72) Anthracene	11.410	178	414876	37.500	ng	97
75) Fluoranthene	12.545	202	331722	28.392	ng	96
78) Pyrene	12.774	202	485980	54.142	ng	99
81) Benzo(a)anthracene	13.962	228	161467m	21.471	ng	
83) Chrysene	13.998	228	134878	18.812	ng	99
87) Indeno(1,2,3-cd)pyrene	16.880	276	48261	5.782	ng	# 91
88) Benzo(b)fluoranthene	15.009	252	114426m	12.931	ng	
89) Benzo(k)fluoranthene	15.033	252	34246m	4.114	ng	
90) Benzo(a)pyrene	15.368	252	116658m	16.774	ng	
91) Dibenzo(a,h)anthracene	16.886	278	16402	2.369	ng	95
92) Benzo(g,h,i)perylene	17.315	276	46655m	6.799	ng	

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

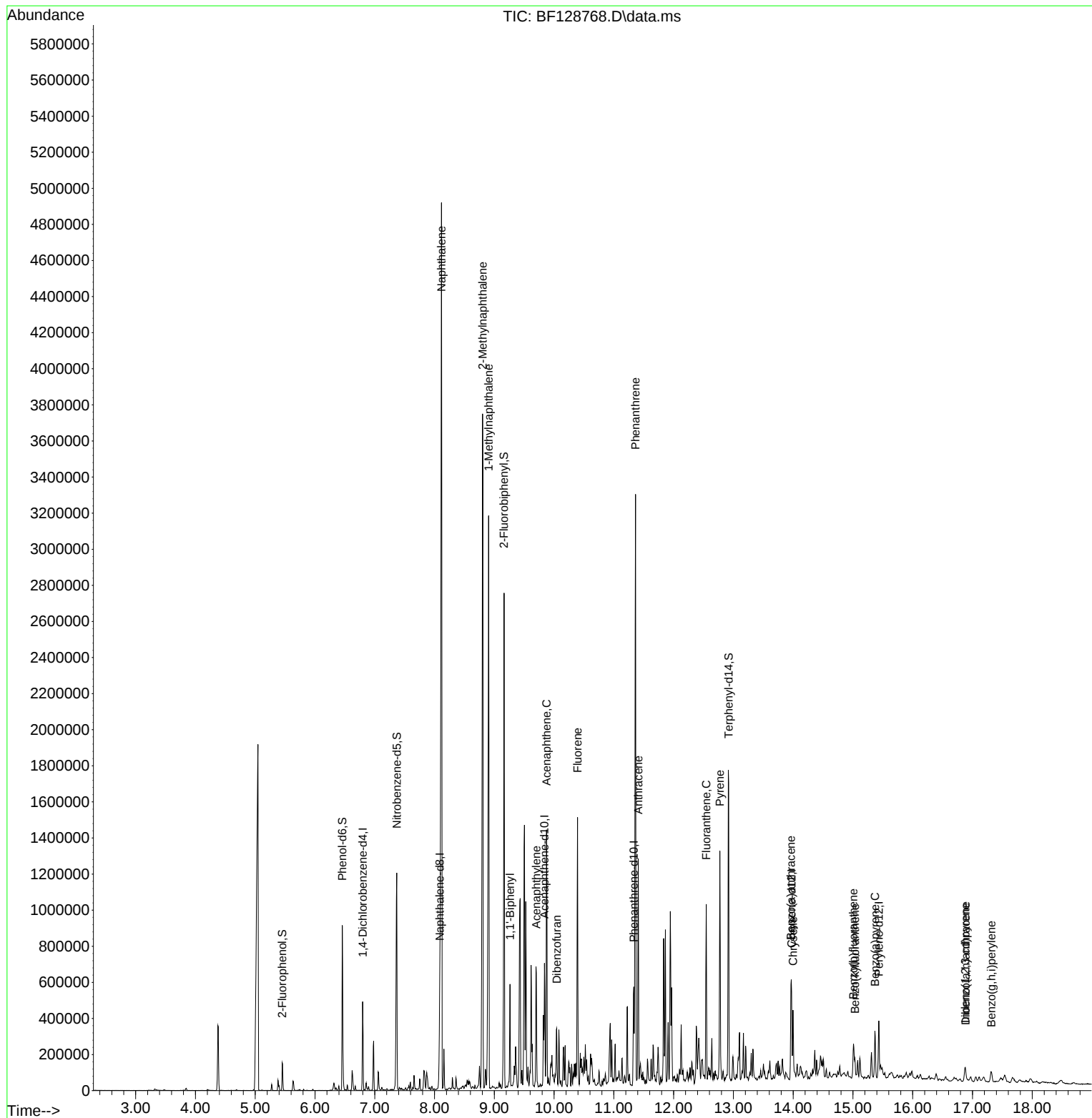
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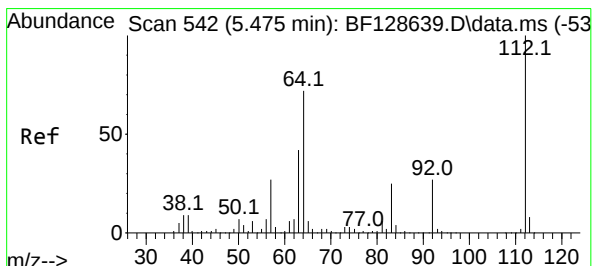
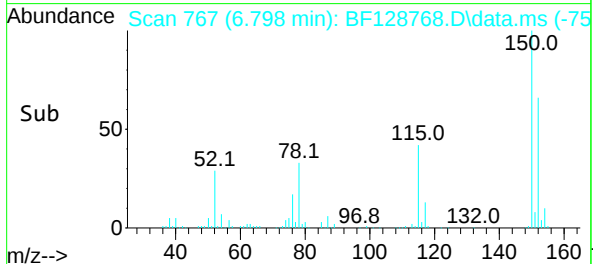
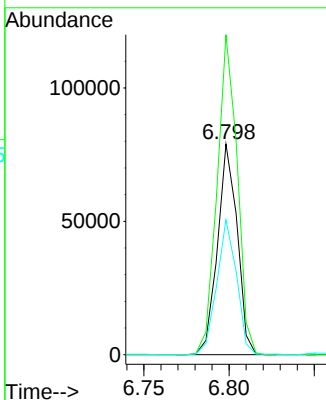
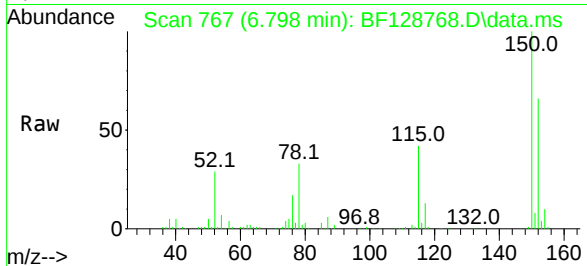
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.798 min Scan# 70
Delta R.T. -0.012 min
Lab File: BF128768.D
Acq: 10 Jun 2022 19:45

Instrument :
BNA_F
ClientSampleId :
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Tgt Ion:152 Resp: 6338
Ion Ratio Lower Upper
152 100
150 151.9 123.7 185.5
115 64.0 49.9 74.9

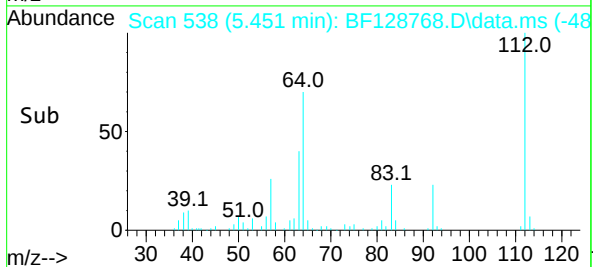
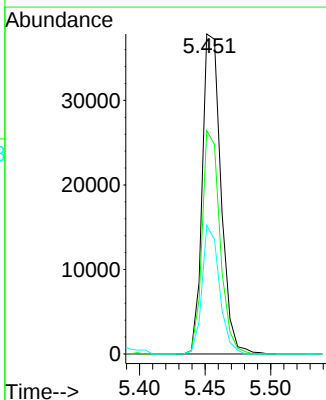
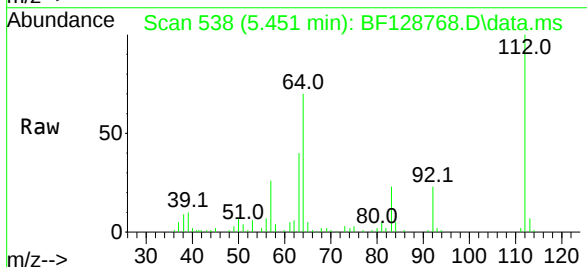
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#5
2-Fluorophenol
Concen: 9.452 ng
RT: 5.451 min Scan# 538
Delta R.T. -0.006 min
Lab File: BF128768.D
Acq: 10 Jun 2022 19:45

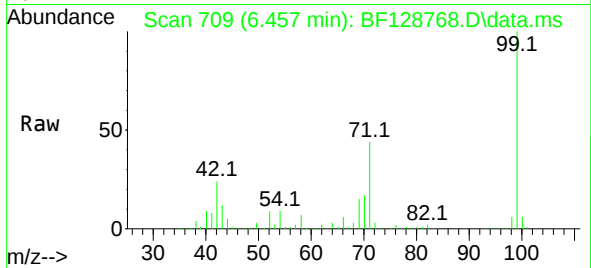
Tgt Ion:112 Resp: 37610
Ion Ratio Lower Upper
112 100
64 69.8 53.3 79.9
63 40.2 28.0 42.0





#7
Phenol-d6
Concen: 52.598 ng
RT: 6.457 min Scan# 709
Delta R.T. -0.024 min
Lab File: BF128768.D
Acq: 10 Jun 2022 19:45

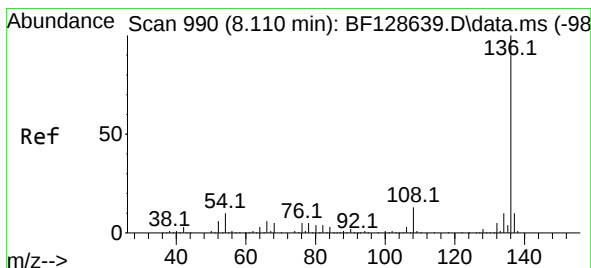
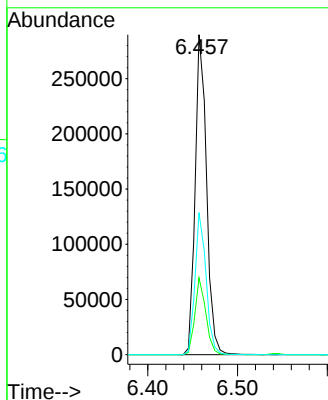
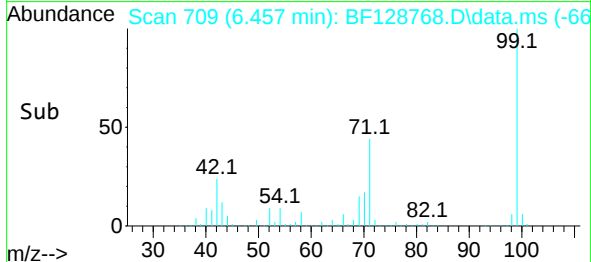
Instrument :
BNA_F
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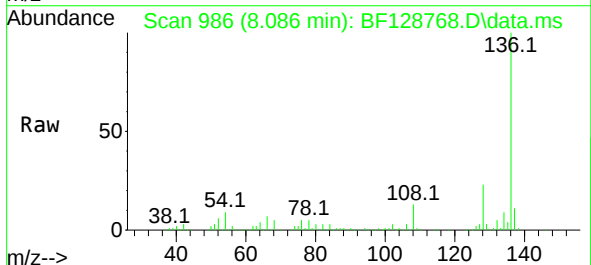
Tgt Ion: 99 Resp: 255480
Ion Ratio Lower Upper
99 100
42 24.1 17.3 25.9
71 44.4 28.9 43.3

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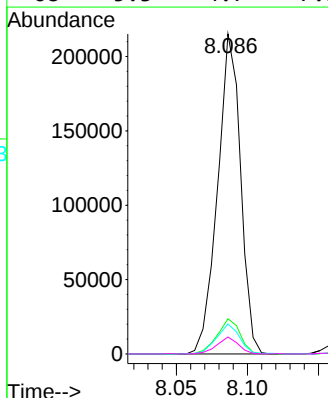
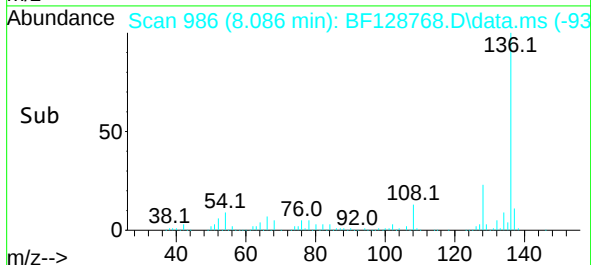
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#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.086 min Scan# 986
Delta R.T. -0.012 min
Lab File: BF128768.D
Acq: 10 Jun 2022 19:45



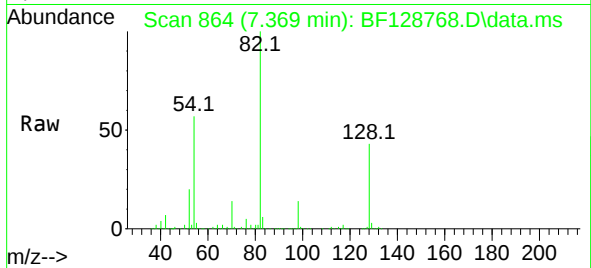
Tgt Ion:136 Resp: 241230
Ion Ratio Lower Upper
136 100
137 11.0 8.8 13.2
54 9.4 7.5 11.3
68 5.3 4.7 7.1





#23
Nitrobenzene-d5
Concen: 75.867 ng
RT: 7.369 min Scan# 80
Delta R.T. -0.012 min
Lab File: BF128768.D
Acq: 10 Jun 2022 19:45

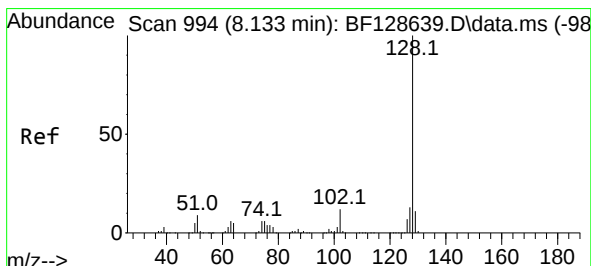
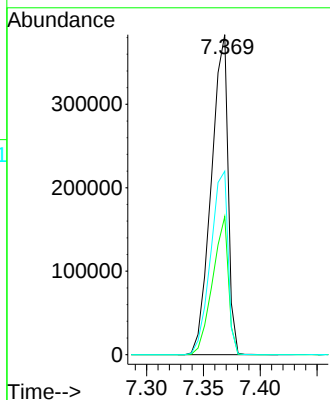
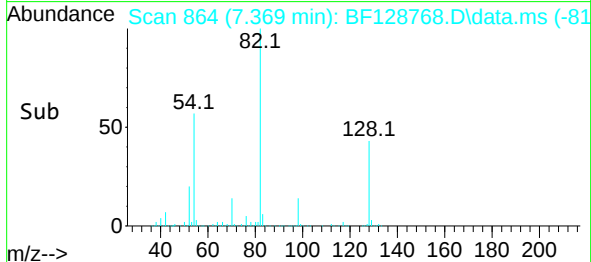
Instrument :
BNA_F
ClientSampleId :
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Tgt Ion: 82 Resp: 39308
Ion Ratio Lower Upper
82 100
128 43.1 34.0 51.0
54 57.4 46.9 70.3

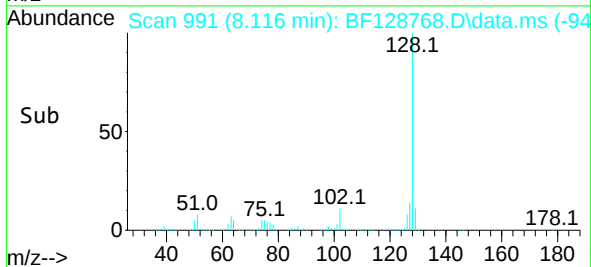
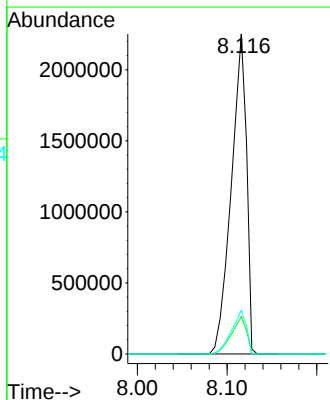
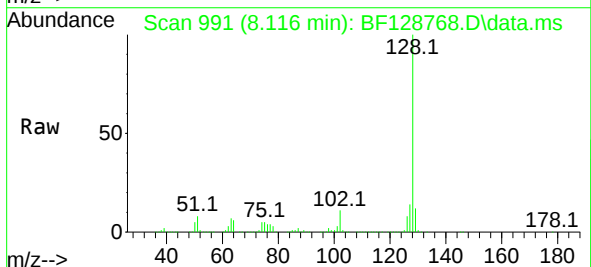
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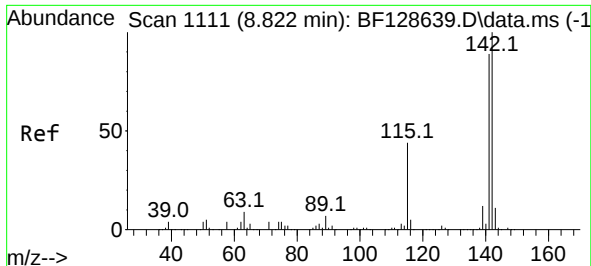
Reviewed By :Christian Giraldo 06/13/2022
Supervised By :Jagrut Upadhyay 06/13/2022



#31
Naphthalene
Concen: 213.953 ng
RT: 8.116 min Scan# 991
Delta R.T. -0.006 min
Lab File: BF128768.D
Acq: 10 Jun 2022 19:45

Tgt Ion:128 Resp: 2648762
Ion Ratio Lower Upper
128 100
129 11.6 9.2 13.8
127 13.6 10.5 15.7





#37

2-Methylnaphthalene

Concen: 148.189 ng

RT: 8.804 min Scan# 1108

Delta R.T. -0.006 min

Lab File: BF128768.D

Acq: 10 Jun 2022 19:45

Instrument :

BNA_F

ClientSampleId :

GATE-6-JET-GROUT-SPOILS

Tgt Ion:142 Resp: 1166904

Ion Ratio Lower Upper

142 100

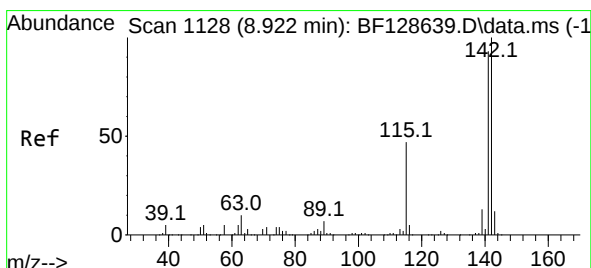
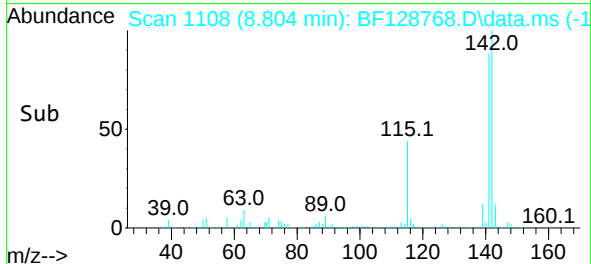
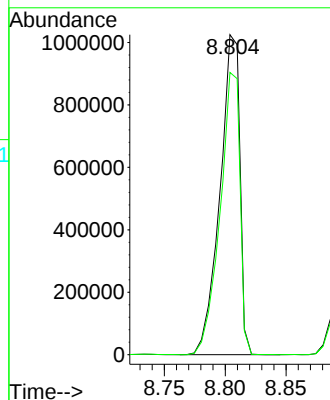
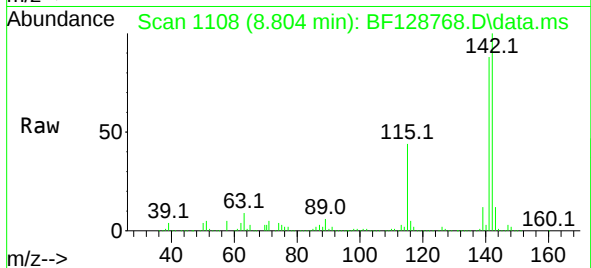
141 88.2 71.0 106.4

Manual Integrations

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Supervised By :Jagrut Upadhyay 06/13/2022



#38

1-Methylnaphthalene

Concen: 110.239 ng

RT: 8.904 min Scan# 1125

Delta R.T. -0.006 min

Lab File: BF128768.D

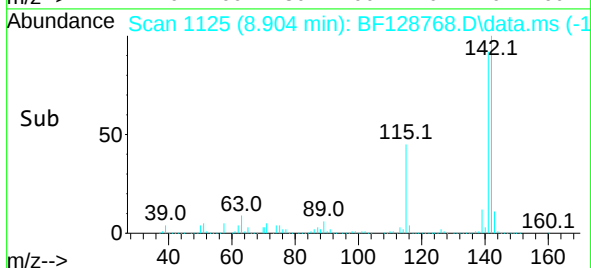
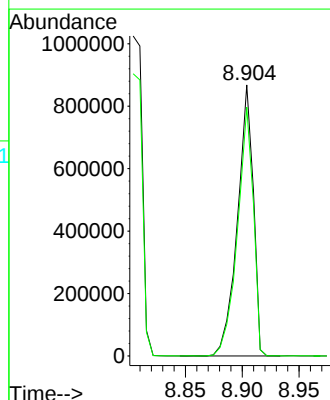
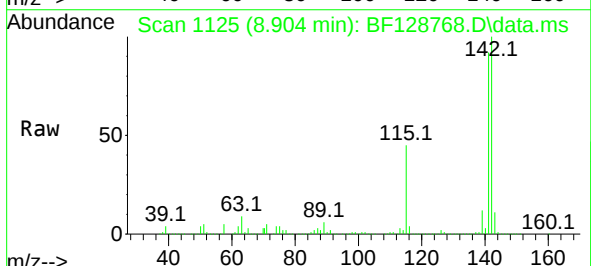
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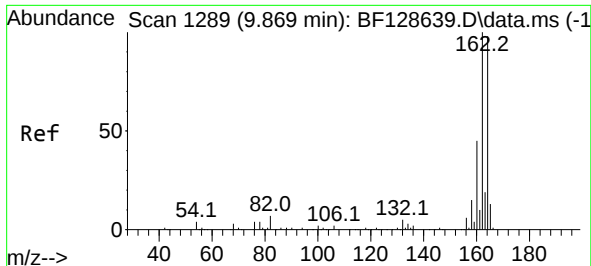
Tgt Ion:142 Resp: 838692

Ion Ratio Lower Upper

142 100

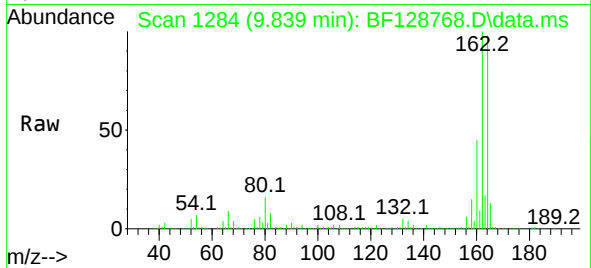
141 91.7 74.2 111.4





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.839 min Scan# 11
Delta R.T. -0.018 min
Lab File: BF128768.D
Acq: 10 Jun 2022 19:45

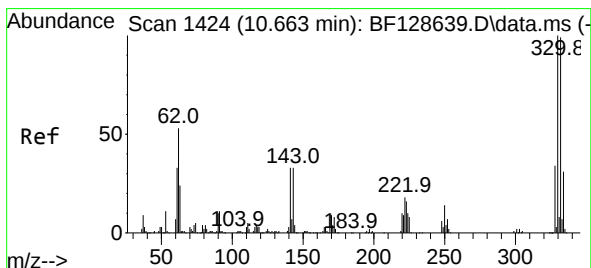
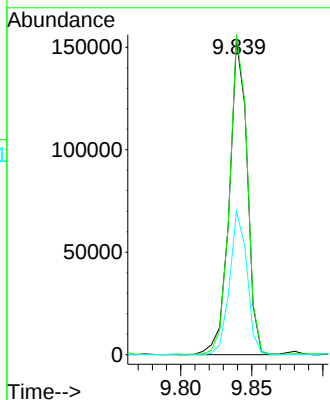
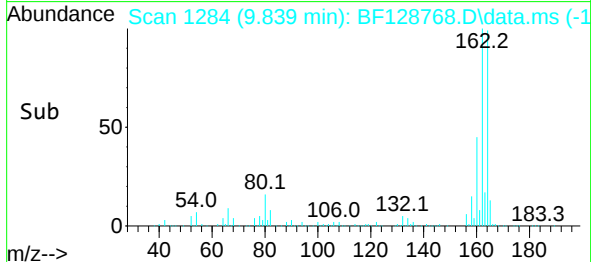
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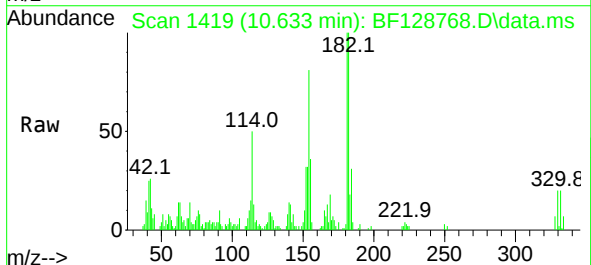
Tgt Ion:164 Resp: 13520
Ion Ratio Lower Upper
164 100
162 101.7 79.5 119.3
160 45.7 34.2 51.4

Manual Integrations
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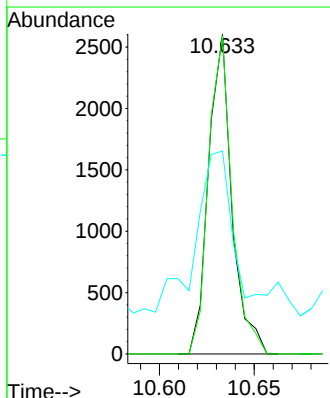
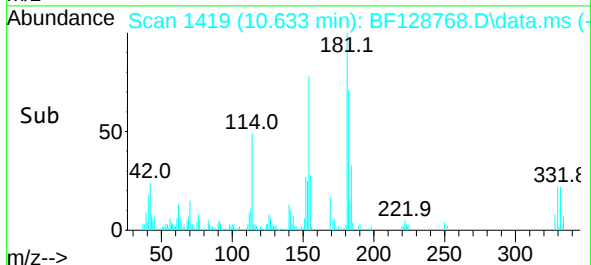
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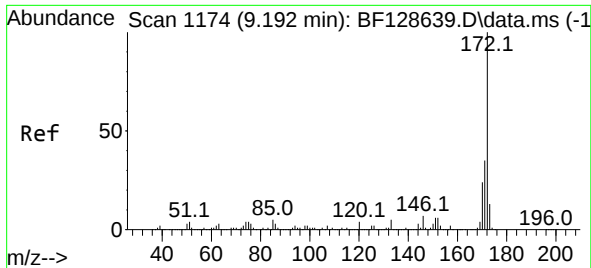


#42
2,4,6-Tribromophenol
Concen: 1.400 ng
RT: 10.633 min Scan# 1419
Delta R.T. -0.018 min
Lab File: BF128768.D
Acq: 10 Jun 2022 19:45



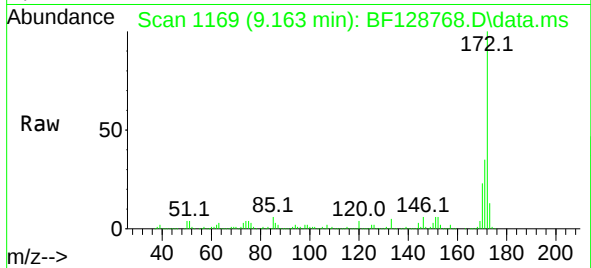
Tgt Ion:330 Resp: 2237
Ion Ratio Lower Upper
330 100
332 100.2 76.8 115.2
141 91.6 28.0 42.0#





#45
2-Fluorobiphenyl
Concen: 79.592 ng
RT: 9.163 min Scan# 1169
Delta R.T. -0.012 min
Lab File: BF128768.D
Acq: 10 Jun 2022 19:45

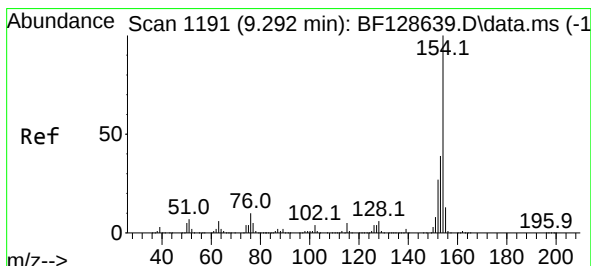
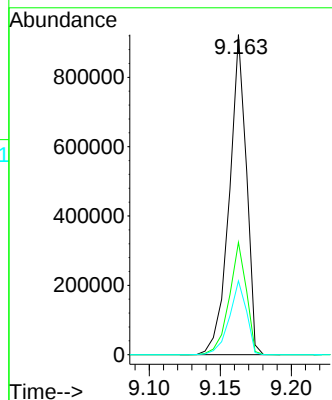
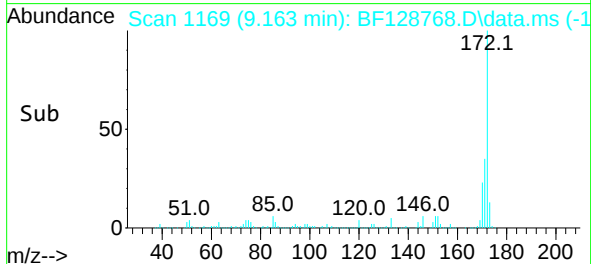
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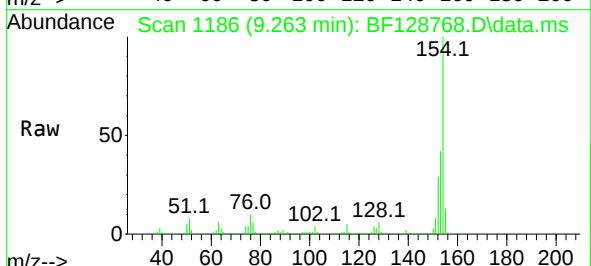
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Ion Ratio Lower Upper
172 100
171 35.1 28.8 43.2
170 23.0 19.8 29.8

Manual Integrations
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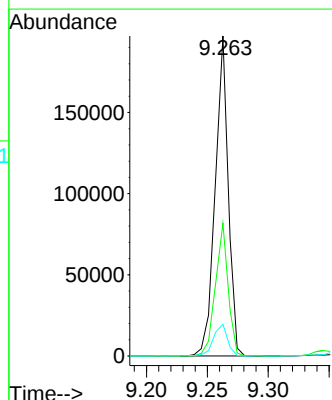
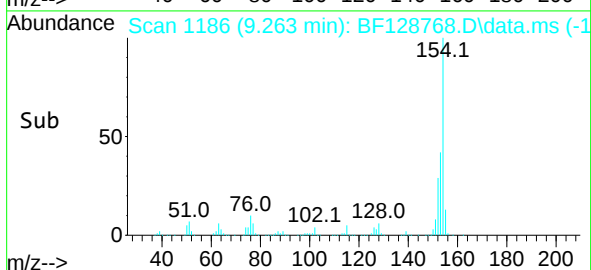
Reviewed By :Christian Giraldo 06/13/2022
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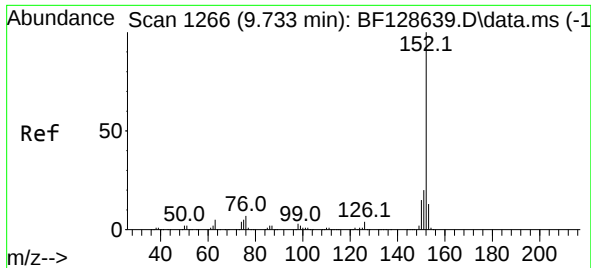


#46
1,1'-Biphenyl
Concen: 14.463 ng
RT: 9.263 min Scan# 1186
Delta R.T. -0.012 min
Lab File: BF128768.D
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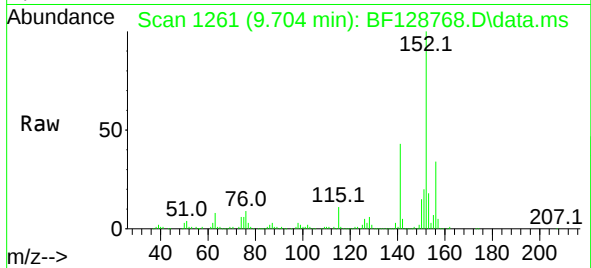
Tgt Ion:154 Resp: 146719
Ion Ratio Lower Upper
154 100
153 41.5 20.6 60.6
76 9.9 0.0 33.3





#49
Acenaphthylene
Concen: 12.312 ng
RT: 9.704 min Scan# 1266
Delta R.T. -0.012 min
Lab File: BF128768.D
Acq: 10 Jun 2022 19:45

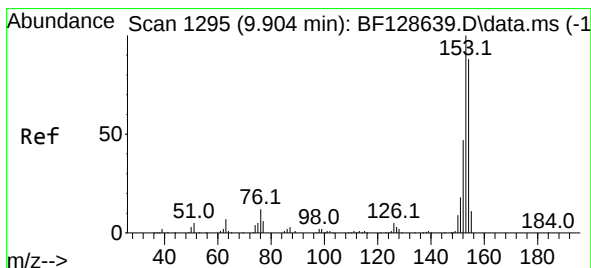
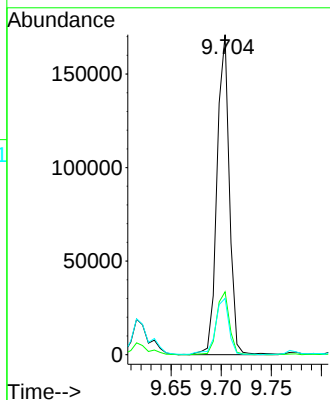
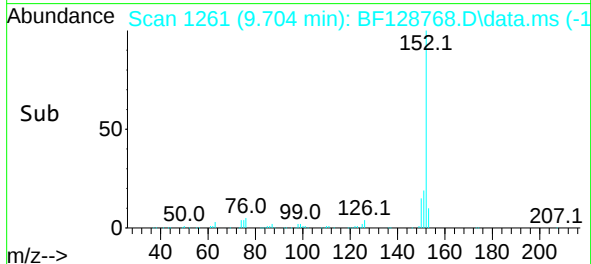
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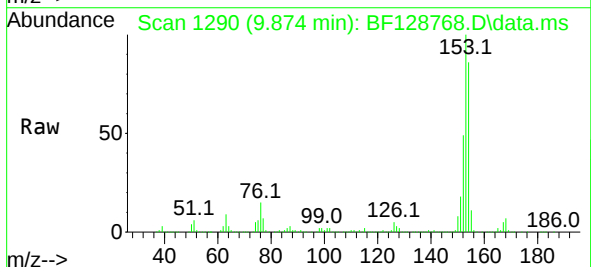
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Ion Ratio Lower Upper
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151 19.7 16.2 24.4
153 17.6 10.7 16.1

Manual Integrations
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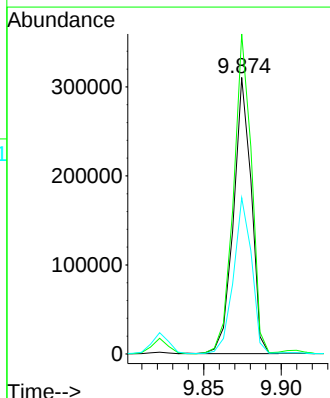
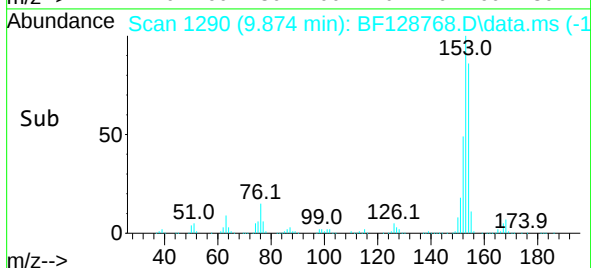
Reviewed By :Christian Giraldo 06/13/2022
Supervised By :Jagrut Upadhyay 06/13/2022

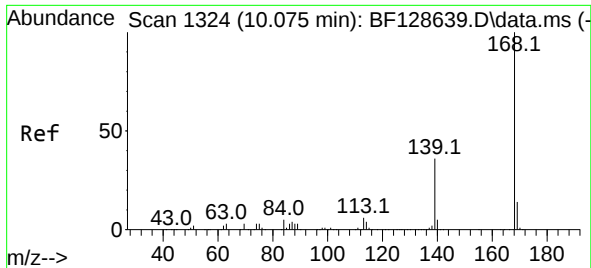


#52
Acenaphthene
Concen: 32.000 ng
RT: 9.874 min Scan# 1290
Delta R.T. -0.018 min
Lab File: BF128768.D
Acq: 10 Jun 2022 19:45



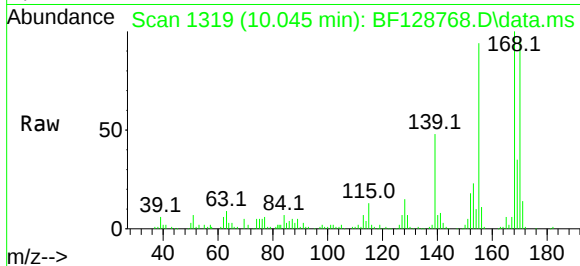
Tgt Ion:154 Resp: 246948
Ion Ratio Lower Upper
154 100
153 115.7 89.6 134.4
152 56.5 42.4 63.6





#55
Dibenzenofuran
Concen: 3.461 ng
RT: 10.045 min Scan# 1319
Delta R.T. -0.018 min
Lab File: BF128768.D
Acq: 10 Jun 2022 19:45

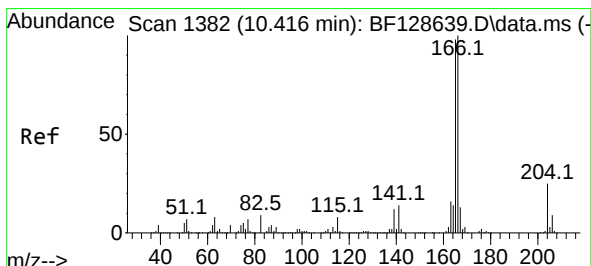
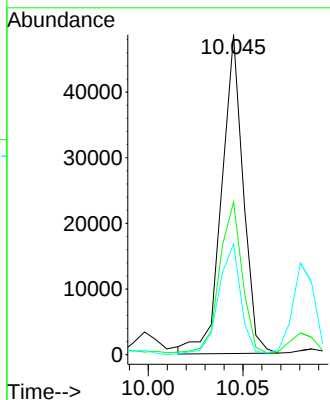
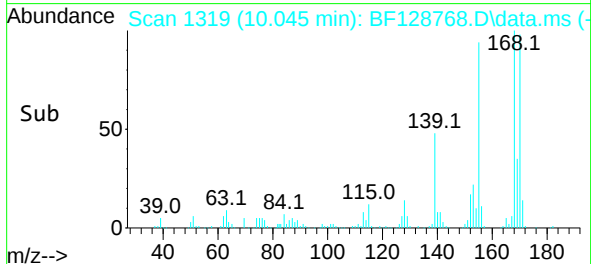
Instrument :
BNA_F
ClientSampleId :
GATE-6-JET-GROUT-SPOILS



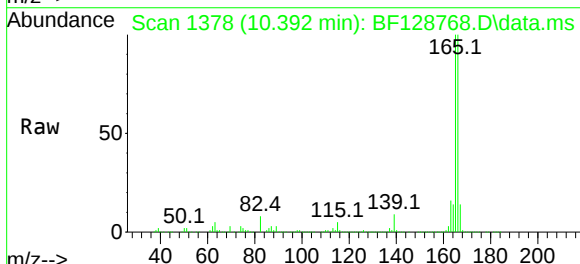
Tgt Ion:168 Resp: 3838
Ion Ratio Lower Upper
168 100
139 47.7 30.6 46.0
169 34.6 11.0 16.6

Manual Integrations
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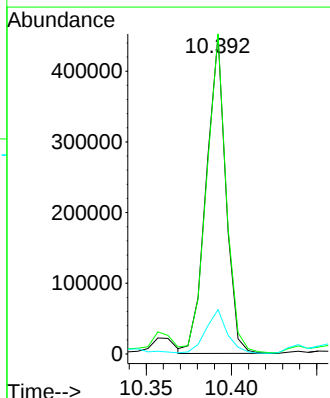
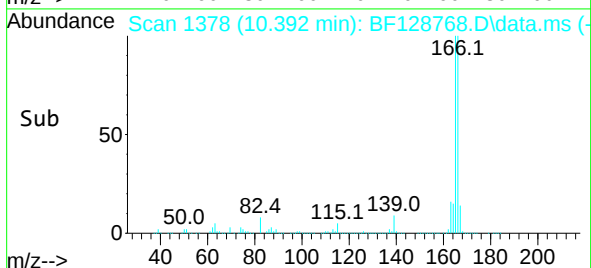
Reviewed By :Christian Giraldo 06/13/2022
Supervised By :Jagrut Upadhyay 06/13/2022

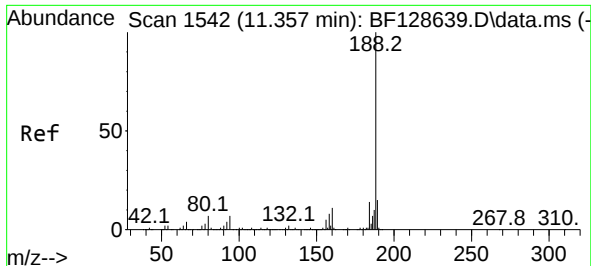


#58
Fluorene
Concen: 41.761 ng
RT: 10.392 min Scan# 1378
Delta R.T. -0.012 min
Lab File: BF128768.D
Acq: 10 Jun 2022 19:45



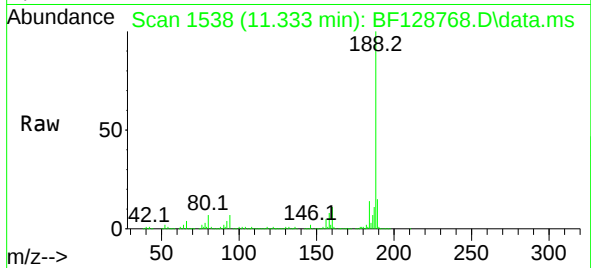
Tgt Ion:166 Resp: 359199
Ion Ratio Lower Upper
166 100
165 100.4 78.1 117.1
167 13.9 10.5 15.7





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.333 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF128768.D
Acq: 10 Jun 2022 19:45

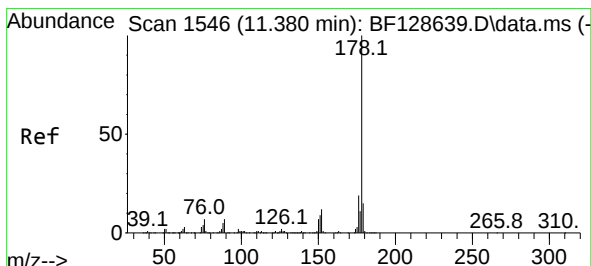
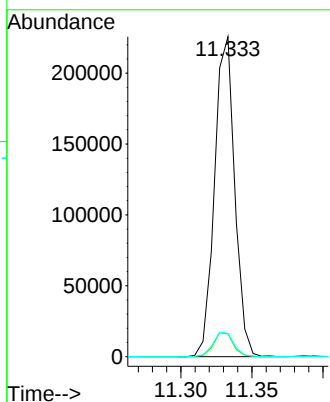
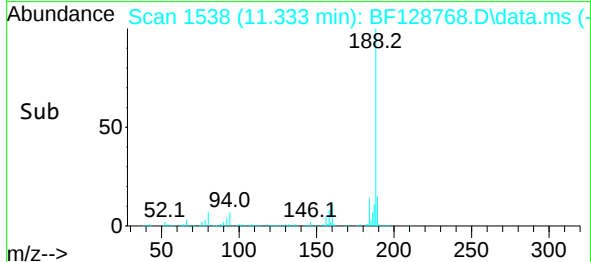
Instrument :
BNA_F
ClientSampleId :
GATE-6-JET-GROUT-SPOILS



Tgt Ion:188 Resp: 222845
Ion Ratio Lower Upper
188 100
94 7.1 7.0 10.6
80 7.3 7.6 11.4

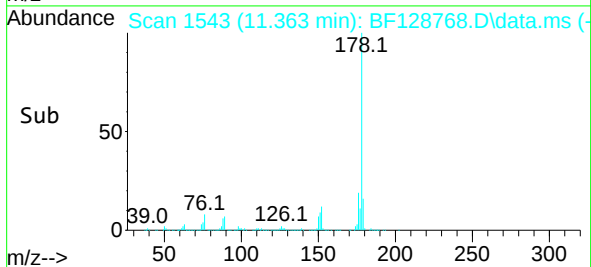
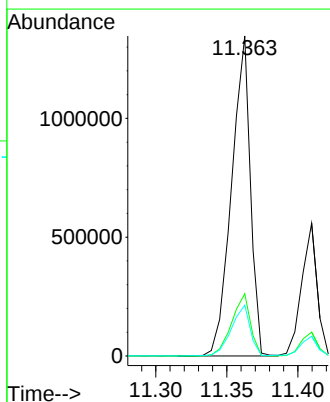
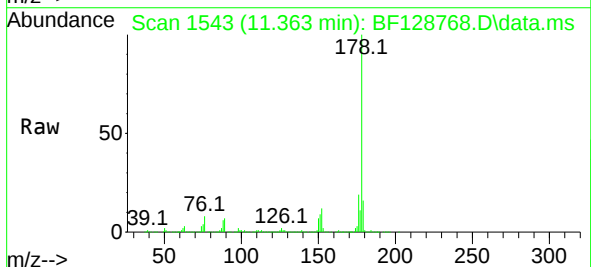
Manual Integrations
APPROVED

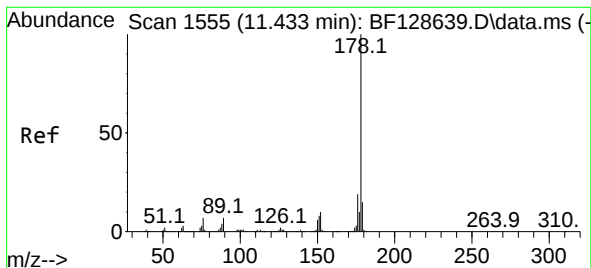
Reviewed By :Christian Giraldo 06/13/2022
Supervised By :Jagrut Upadhyay 06/13/2022



#71
Phenanthrene
Concen: 111.057 ng
RT: 11.363 min Scan# 1543
Delta R.T. -0.006 min
Lab File: BF128768.D
Acq: 10 Jun 2022 19:45

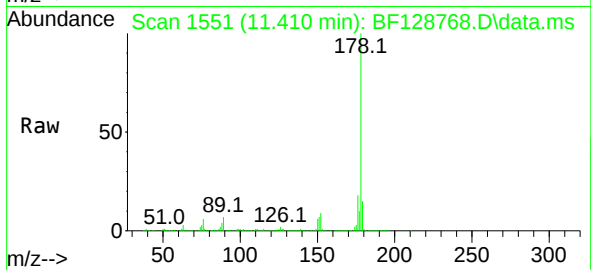
Tgt Ion:178 Resp: 1241330
Ion Ratio Lower Upper
178 100
176 19.5 16.0 24.0
179 15.9 12.6 19.0





#72
 Anthracene
 Concen: 37.500 ng
 RT: 11.410 min Scan# 11
 Delta R.T. -0.012 min
 Lab File: BF128768.D
 Acq: 10 Jun 2022 19:45

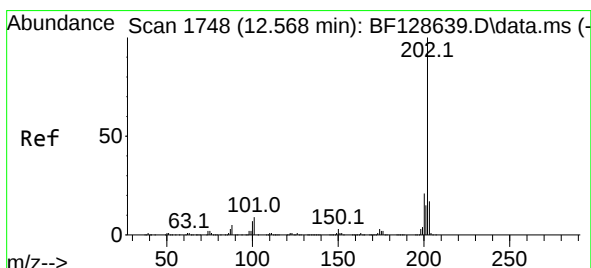
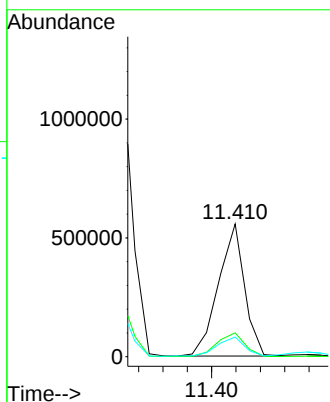
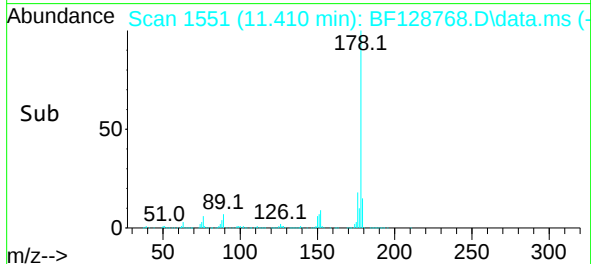
Instrument :
 BNA_F
 ClientSampleId :
 GATE-6-JET-GROUT-SPOILS



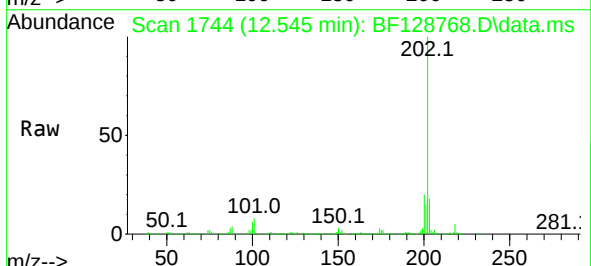
Tgt Ion:178 Resp: 414870
 Ion Ratio Lower Upper
 178 100
 176 18.0 15.4 23.2
 179 14.8 12.6 19.0

Manual Integrations
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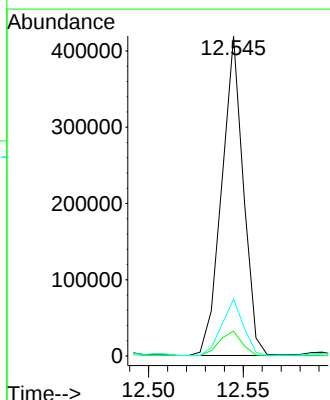
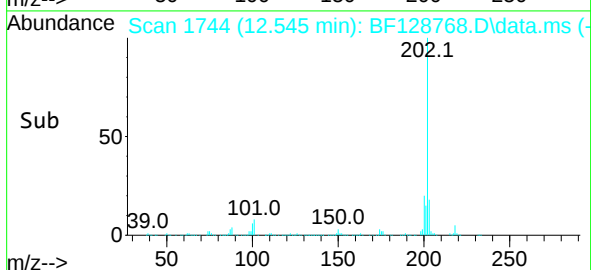
Reviewed By :Christian Giraldo 06/13/2022
 Supervised By :Jagrut Upadhyay 06/13/2022

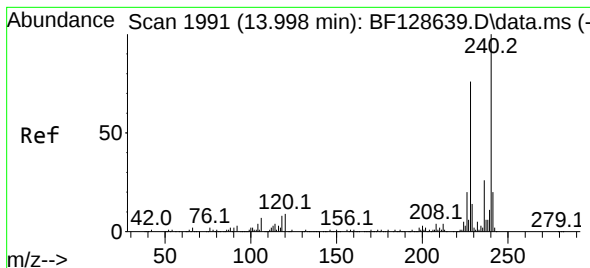


#75
 Fluoranthene
 Concen: 28.392 ng
 RT: 12.545 min Scan# 1744
 Delta R.T. -0.012 min
 Lab File: BF128768.D
 Acq: 10 Jun 2022 19:45



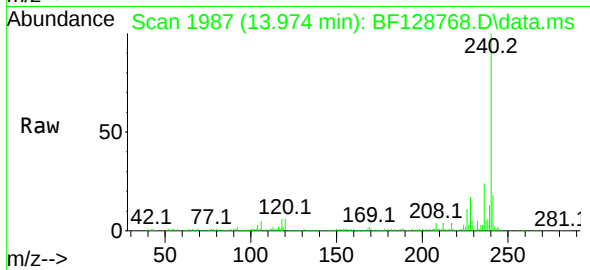
Tgt Ion:202 Resp: 331722
 Ion Ratio Lower Upper
 202 100
 101 7.8 0.0 31.4
 203 17.7 0.0 38.0





#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.974 min Scan# 1991
Delta R.T. -0.012 min
Lab File: BF128768.D
Acq: 10 Jun 2022 19:45

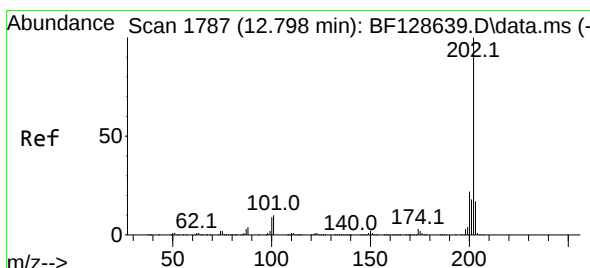
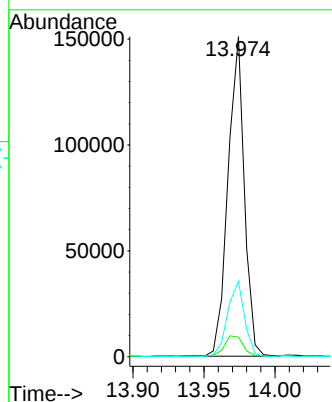
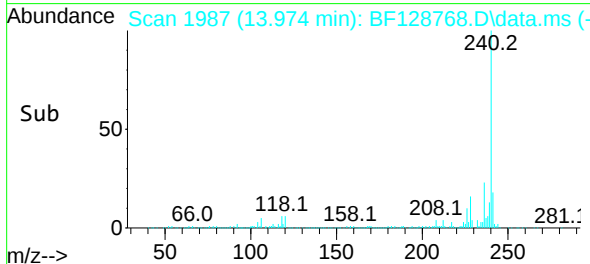
Instrument :
BNA_F
ClientSampleId :
GATE-6-JET-GROUT-SPOILS



Tgt Ion:240 Resp: 120640
Ion Ratio Lower Upper
240 100
120 6.1 8.9 13.3
236 23.5 20.8 31.2

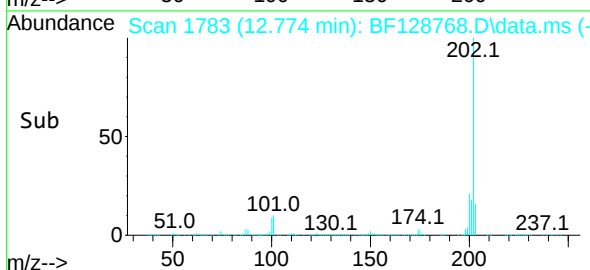
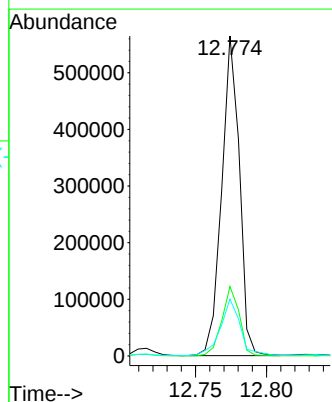
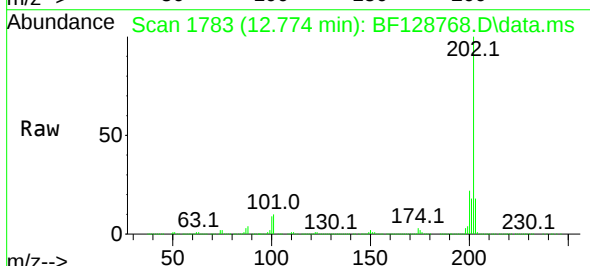
Manual Integrations
APPROVED

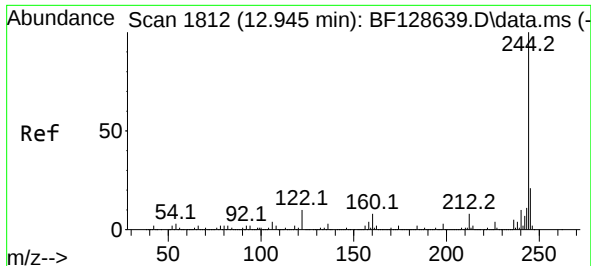
Reviewed By :Christian Giraldo 06/13/2022
Supervised By :Jagrut Upadhyay 06/13/2022



#78
Pyrene
Concen: 54.142 ng
RT: 12.774 min Scan# 1783
Delta R.T. -0.012 min
Lab File: BF128768.D
Acq: 10 Jun 2022 19:45

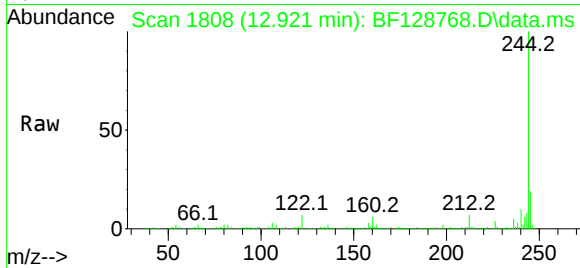
Tgt Ion:202 Resp: 485980
Ion Ratio Lower Upper
202 100
200 21.7 17.7 26.5
203 17.7 14.6 21.8





#79
 Terphenyl-d14
 Concen: 88.853 ng
 RT: 12.921 min Scan# 1808
 Delta R.T. -0.012 min
 Lab File: BF128768.D
 Acq: 10 Jun 2022 19:45

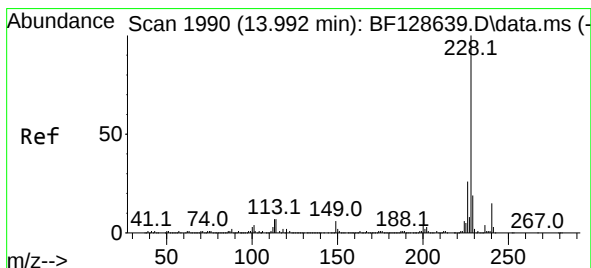
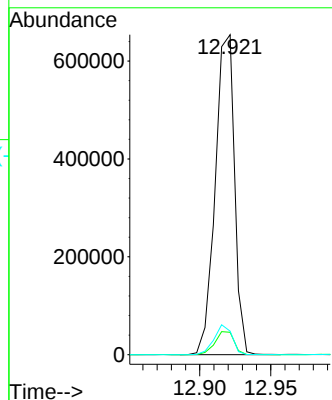
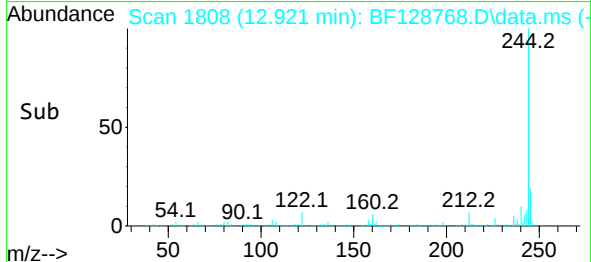
Instrument :
 BNA_F
 ClientSampleId :
 GATE-6-JET-GROUT-SPOILS



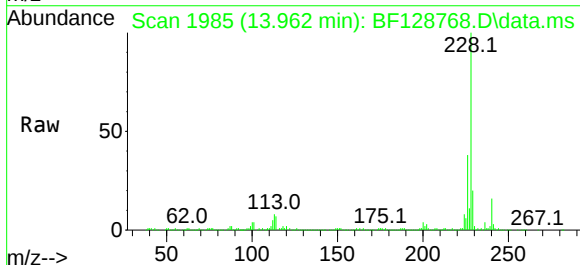
Tgt Ion:244 Resp: 616915
 Ion Ratio Lower Upper
 244 100
 212 7.0 6.1 9.1
 122 7.3 8.8 13.2

Manual Integrations
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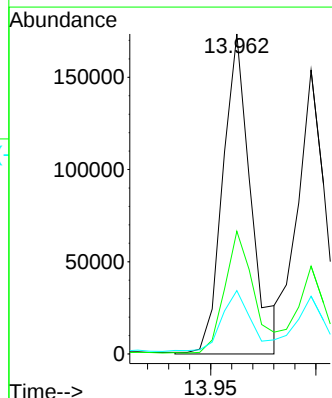
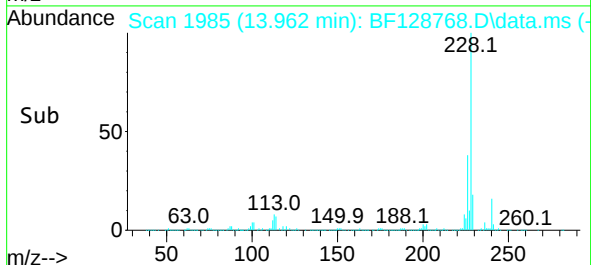
Reviewed By :Christian Giraldo 06/13/2022
 Supervised By :Jagrut Upadhyay 06/13/2022

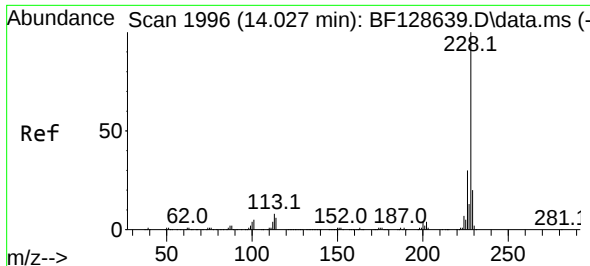


#81
 Benzo(a)anthracene
 Concen: 21.471 ng m
 RT: 13.962 min Scan# 1985
 Delta R.T. -0.012 min
 Lab File: BF128768.D
 Acq: 10 Jun 2022 19:45



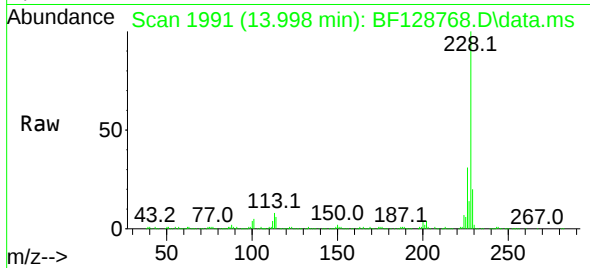
Tgt Ion:228 Resp: 161467
 Ion Ratio Lower Upper
 228 100
 226 38.4 22.1 33.1#
 229 19.8 15.8 23.8





#83
Chrysene
Concen: 18.812 ng
RT: 13.998 min Scan# 1996
Delta R.T. -0.018 min
Lab File: BF128768.D
Acq: 10 Jun 2022 19:45

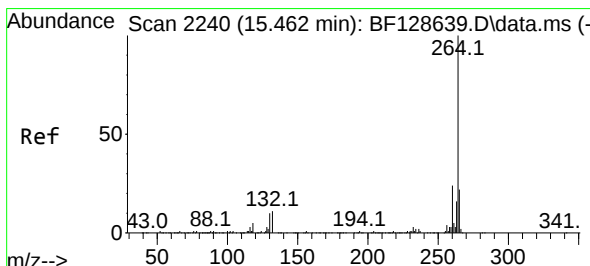
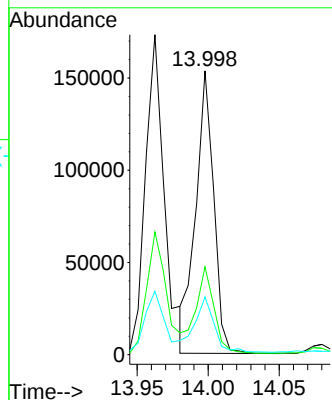
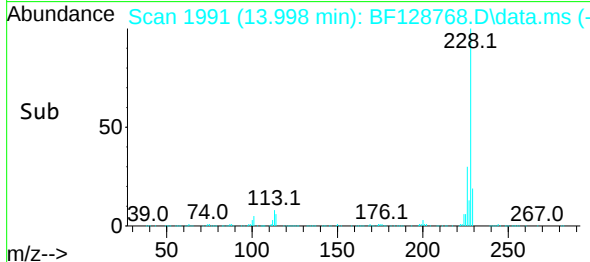
Instrument :
BNA_F
ClientSampleId :
GATE-6-JET-GROUT-SPOILS



Tgt Ion:228 Resp: 134878
Ion Ratio Lower Upper
228 100
226 30.9 24.3 36.5
229 20.4 15.9 23.9

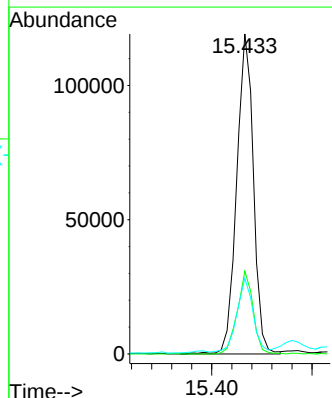
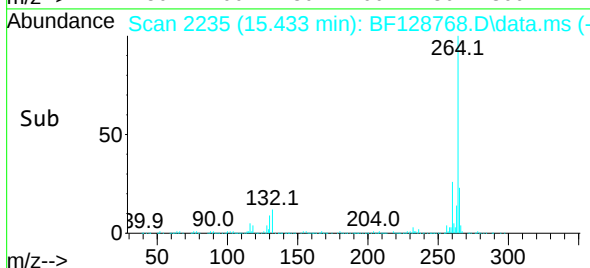
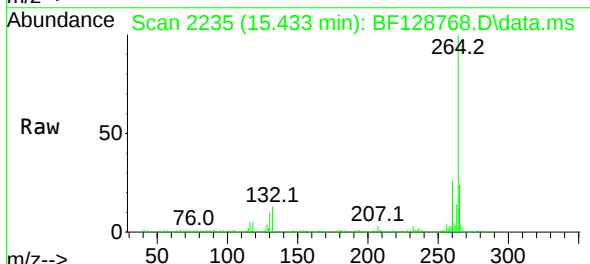
Manual Integrations
APPROVED

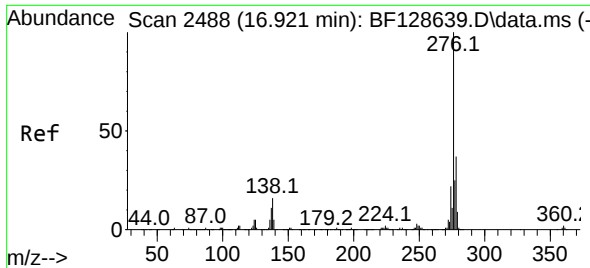
Reviewed By :Christian Giraldo 06/13/2022
Supervised By :Jagrut Upadhyay 06/13/2022



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.433 min Scan# 2235
Delta R.T. -0.012 min
Lab File: BF128768.D
Acq: 10 Jun 2022 19:45

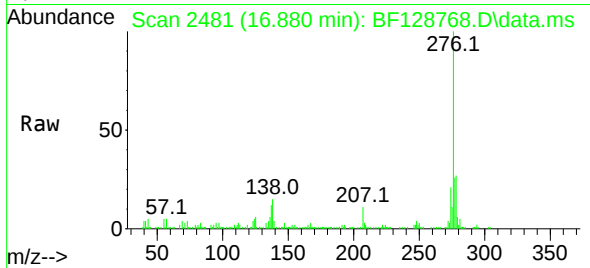
Tgt Ion:264 Resp: 138480
Ion Ratio Lower Upper
264 100
260 25.8 18.4 27.6
265 23.6 17.2 25.8





#87
 Indeno(1,2,3-cd)pyrene
 Concen: 5.782 ng
 RT: 16.880 min Scan# 2488
 Delta R.T. -0.018 min
 Lab File: BF128768.D
 Acq: 10 Jun 2022 19:45

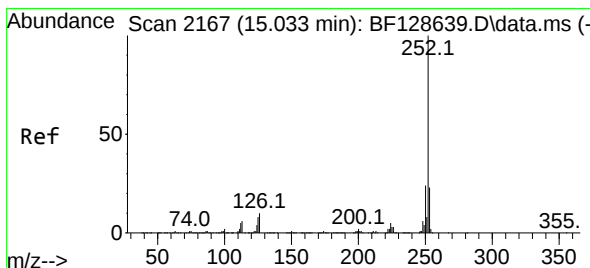
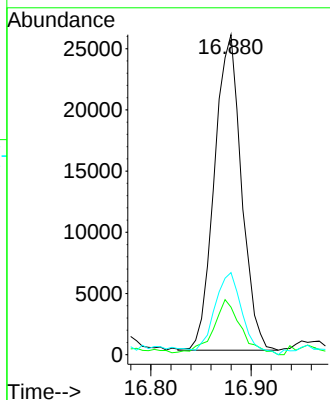
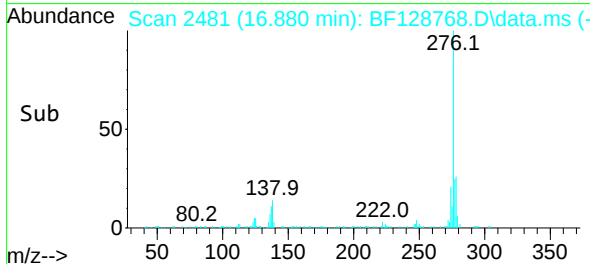
Instrument :
 BNA_F
 ClientSampleId :
 GATE-6-JET-GROUT-SPOILS



Tgt Ion: 276 Resp: 4826
 Ion Ratio Lower Upper
 276 100
 138 18.1 21.1 31.7
 277 26.6 20.3 30.5

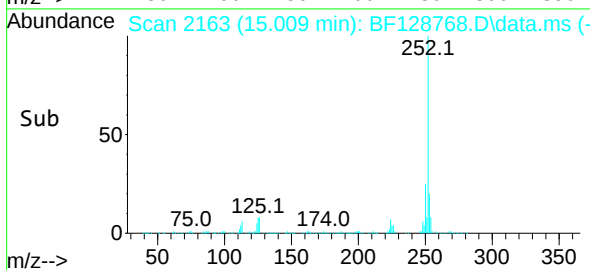
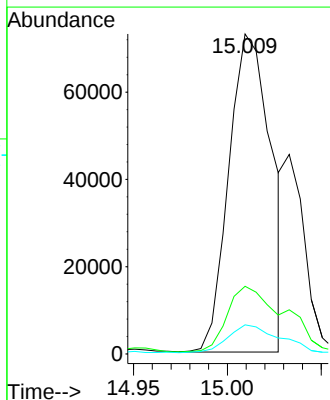
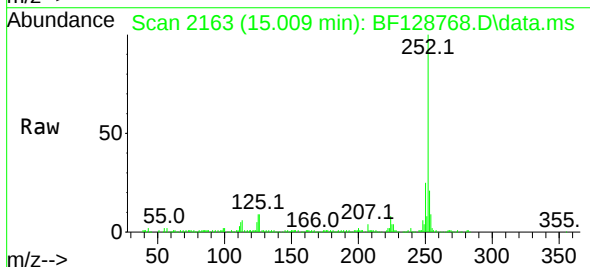
Manual Integrations
 APPROVED

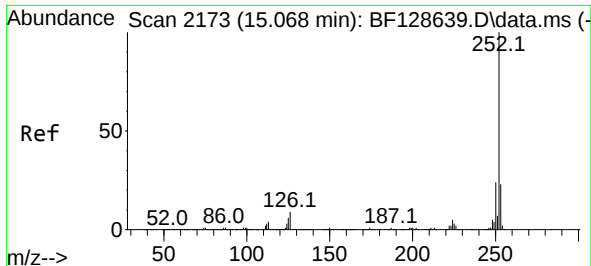
Reviewed By : Christian Giraldo 06/13/2022
 Supervised By : Jagrut Upadhyay 06/13/2022



#88
 Benzo(b)fluoranthene
 Concen: 12.931 ng m
 RT: 15.009 min Scan# 2163
 Delta R.T. -0.012 min
 Lab File: BF128768.D
 Acq: 10 Jun 2022 19:45

Tgt Ion: 252 Resp: 114426
 Ion Ratio Lower Upper
 252 100
 253 21.1 17.7 26.5
 125 9.1 8.0 12.0





#89

Benzo(k)fluoranthene

Concen: 4.114 ng m

RT: 15.033 min Scan# 2173

Delta R.T. -0.018 min

Lab File: BF128768.D

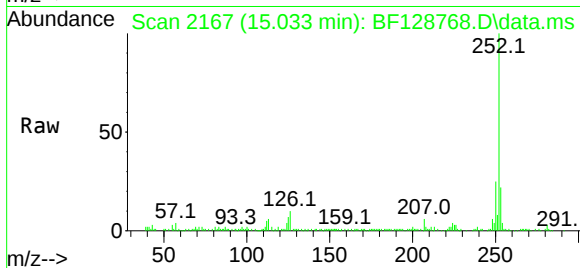
Acq: 10 Jun 2022 19:45

Instrument :

BNA_F

ClientSampleId :

GATE-6-JET-GROUT-SPOILS



Tgt Ion:252 Resp: 34240

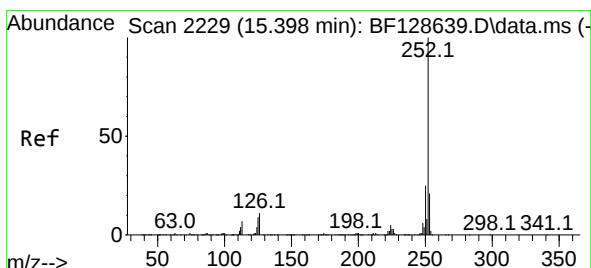
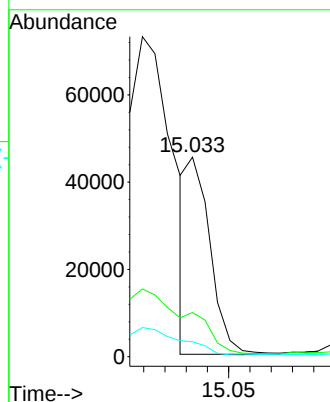
Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.8	26.6
125	7.4	8.3	12.5

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 06/13/2022

Supervised By :Jagrut Upadhyay 06/13/2022



#90

Benzo(a)pyrene

Concen: 16.774 ng m

RT: 15.368 min Scan# 2224

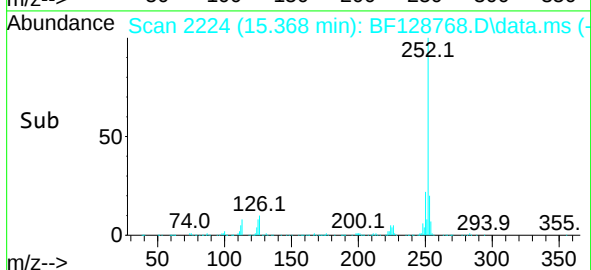
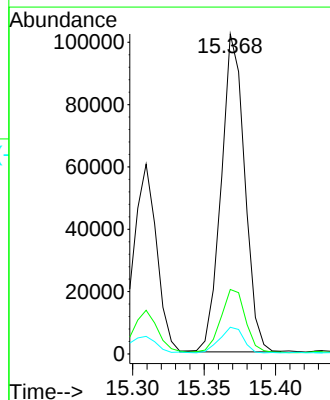
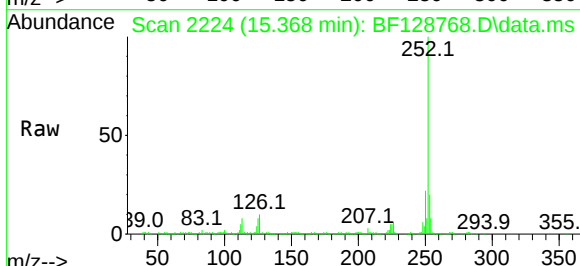
Delta R.T. -0.018 min

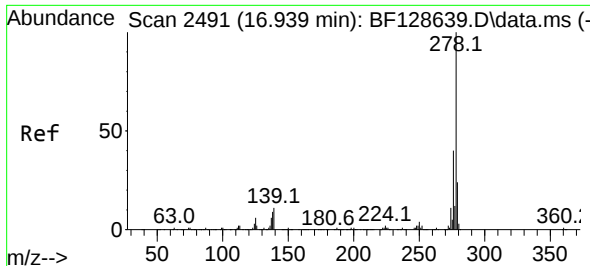
Lab File: BF128768.D

Acq: 10 Jun 2022 19:45

Tgt Ion:252 Resp: 116658

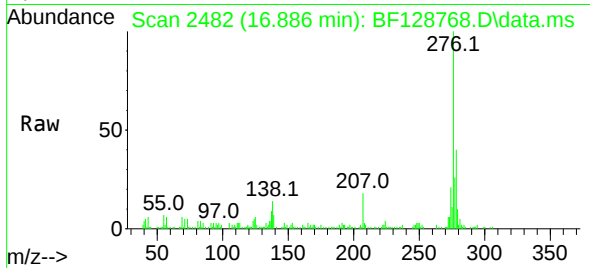
Ion	Ratio	Lower	Upper
252	100		
253	20.2	17.0	25.6
125	8.3	8.8	13.2





#91
Dibenzo(a,h)anthracene
Concen: 2.369 ng
RT: 16.886 min Scan# 2491
Delta R.T. -0.030 min
Lab File: BF128768.D
Acq: 10 Jun 2022 19:45

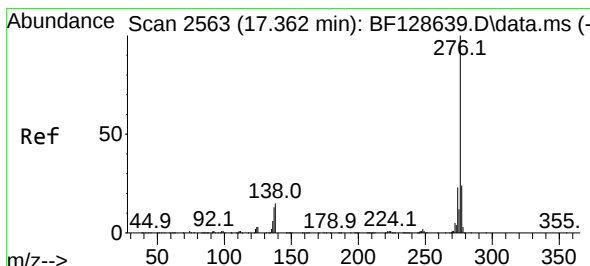
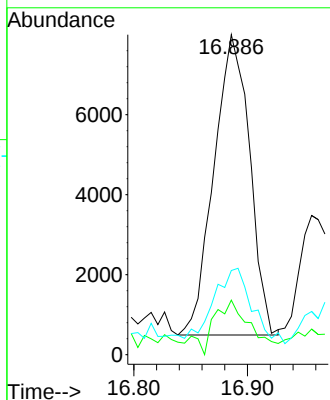
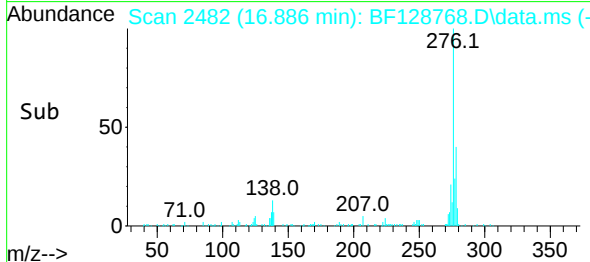
Instrument :
BNA_F
ClientSampleId :
GATE-6-JET-GROUT-SPOILS



Tgt Ion: 278 Resp: 1640
Ion Ratio Lower Upper
278 100
139 17.1 12.8 19.2
279 26.3 18.6 28.0

Manual Integrations
APPROVED

Reviewed By : Christian Giraldo 06/13/2022
Supervised By : Jagrut Upadhyay 06/13/2022



#92
Benzo(g,h,i)perylene
Concen: 6.799 ng m
RT: 17.315 min Scan# 2555
Delta R.T. -0.024 min
Lab File: BF128768.D
Acq: 10 Jun 2022 19:45

Tgt Ion: 276 Resp: 46655
Ion Ratio Lower Upper
276 100
277 21.7 19.1 28.7
138 15.9 18.0 27.0#

