

**From:** [Jhee, Edward M - APHIS](#)  
**To:** (b) (6), (b) (7)(C) - APHIS; (b) (6), (b) (7)(C) - APHIS  
**Cc:** [Juarez, Bernadette R - APHIS](#)  
**Subject:** AMS testing information  
**Date:** Tuesday, June 04, 2013 1:06:36 PM  
**Attachments:** [Copy of Wheat results\\_06\\_04\\_13\\_consolidated.xlsx](#)  
[gel pictures.pdf](#)  
[EVENT8 AND 9.pdf](#)  
[Wheat1.pdf](#)  
[wheat2.pdf](#)  
[wheat3.pdf](#)

---

(b) (6), (b) (7)(C),

Attached are a few files from AMS Gastonia, NC for the records.

1. Copy of Wheat Results 06/04/13\_consolidated—this has been updated. I deleted Sheet 1 since it was irrelevant. Sheet 2 has the essential information. I did a cross reference of the “gel” photos that AMS provided and they all match up. You’ll see a handwritten note from Dr. Srivastava indicating that 2 positives samples were faint (not much DNA), thus didn’t show up on the photo. All others have very clear, distinguishable bands.
2. Gel photos
3. Samples 8 and 9 gel photos (I discovered that those two were omitted on the first set of photos).
4. Wheat results 1, 2, 3 (these are the quantitative 35S/NOS results).

When things clear up a bit in Kansas City, we’ll receive similar information regarding the volunteer sample testing.

Thanks!-Ed

Edward M. Jhee, Ph.D.  
Director, Regulatory Operations Program  
USDA-APHIS-BRS  
4700 River Road, Unit 91  
Riverdale, MD 20737  
Office: 301-851-3948  
Mobile: (b) (6), (b) (7)(C)  
Fax: 301-734-8910  
[edward.m.jhee@aphis.usda.gov](mailto:edward.m.jhee@aphis.usda.gov)

“This electronic message contains information generated by the USDA solely for the intended recipients. Any unauthorized interception of this message or the use or disclosure of the information it contains may violate the law and subject the violator to civil or criminal penalties. If you believe you have received this message in error, please notify the sender and delete the email immediately.”

OR120018\_BR\_003775

**From:** [Jhee, Edward M - APHIS](#)  
**To:** (b) (6), (b) - APHIS; (b) (6), (b) - APHIS  
**Cc:** [Juarez, Bernadette R - APHIS](#)  
**Subject:** AMS/GIPSA plant sample testing results  
**Date:** Thursday, May 30, 2013 9:59:14 AM  
**Attachments:** [Copy of Wheat results\\_05\\_30\\_13 consolidated.xlsx](#)

---

(b) (6), (b) ,

Attached is a table that indicates the tests that were conducted by both AMS (Gastonia, NC) and then confirmed by GIPSA (Kansas City).

The Chain of custody number corresponds to the plant samples in the field.

AMS conducted 35S/NOS tests to detect the presence of a transgene.

AMS then conducted CP4 tests to detect the presence of the glyphosate resistant trait.

AMS conducted event specific PCR to detect the presence of MON 71800.

GIPSA conducted event specific PCR to detect the presence of MON 71800.

AMS conducted event specific PCR of *MON 71800 positive samples* against Events-2, 3 and 4.

Thanks! -Ed

Edward M. Jhee, Ph.D.  
Director, Regulatory Operations Program  
USDA-APHIS-BRS  
4700 River Road, Unit 91  
Riverdale, MD 20737  
Office: 301-851-3948  
Mobile: (b) (6), (b) (7)(C)  
Fax: 301-734-8910  
[edward.m.jhee@aphis.usda.gov](mailto:edward.m.jhee@aphis.usda.gov)

“This electronic message contains information generated by the USDA solely for the intended recipients. Any unauthorized interception of this message or the use or disclosure of the information it contains may violate the law and subject the violator to civil or criminal penalties. If you believe you have received this message in error, please notify the sender and delete the email immediately.”

Sample Collection 5-8-13  
AMS

32 wheat volunteers  
15 Control  
1 club east of field  
1 club N of field

1 pooled sample  
= 50 Total

Sample No	Type of Sample	35S NOSCP4 detect	Sample No	Type of Sample	35S NOSCP4 detect
1	Wheat	Detected	26	Wheat	Detected
2	↓	↓	27	↓	↓
3					
4					
5					
6					
7	Control	Not	31	Control	NOT
8	↑	↑	32	↓	↓
9					
10	Wheat	↓	33	Wheat	Detected
11					
12					
13					
14					
15	↓	↓	34	↓	↓
16					
17	Control	Not	35	↓	↓
18					
19	↓	↓	36	↓	↓
20					
21	Wheat	Detected	37	↓	↓
22					
23	↓	↓	38	↓	↓
24					
25	Control	Not	39	↓	↓
	↓	↓	40	Wheat	Detected
	↓	↓	41	Control	NOT
	↓	↓	42	Wheat	Detected
	↓	↓	43	↓	↓
	↓	↓	44	Control	NOT
	↓	↓	45	Wheat	Detected
	↓	↓	46	↓	↓
	↓	↓	47	Control	NOT
	↓	↓	48	Club east of field	NOT
	↓	↓	49	Club North of field	NOT
	↓	↓	50	Pooled sample Consultant	Detected

COC Item No.	Type of Sample (added by IES)	35S AMS	NOS AMS	71800 AMS
OR130018-BR1	Wheat sample	detected	detected	detected
OR130018-BR2	Wheat sample	detected	detected	detected
OR130018-BR3	Wheat sample	detected	detected	detected
OR130018-BR4	Wheat sample	detected	detected	detected
OR130018-BR5	Wheat sample	detected	detected	detected
OR130018-BR6	Wheat sample	detected	detected	detected
OR130018-BR7	Control Sample	not detected	not detected	not detected
OR130018-BR8	Control Sample	not detected	not detected	not detected
OR130018-BR9	Control Sample	not detected	not detected	not detected
OR130018-BR10	Wheat sample	not detected	not detected	not detected
OR130018-BR11	Wheat sample	not detected	not detected	not detected
OR130018-BR12	Wheat sample	detected	detected	detected
OR130018-BR13	Wheat sample	detected	detected	detected
OR130018-BR14	Wheat sample	detected	detected	detected
OR130018-BR15	Wheat sample	detected	detected	detected
OR130018-BR16	Wheat sample	detected	detected	detected
OR130018-BR17	Control Sample	not detected	not detected	not detected
OR130018-BR18	Control Sample	not detected	not detected	not detected
OR130018-BR19	Control Sample	not detected	not detected	not detected
OR130018-BR20	Wheat sample	detected	detected	detected
OR130018-BR21	Wheat sample	detected	detected	detected
OR130018-BR22	Wheat sample	detected	detected	detected
OR130018-BR23	Wheat sample	detected	detected	detected
OR130018-BR24	Control Sample	not detected	not detected	not detected
OR130018-BR25	Control Sample	not detected	not detected	not detected
OR130018-BR26	Wheat sample	detected	detected	detected
OR130018-BR27	Wheat sample	detected	detected	detected
OR130018-BR28	Wheat sample	detected	detected	detected
OR130018-BR29	Wheat sample	detected	detected	detected
OR130018-BR30	Wheat sample	detected	detected	detected
OR130018-BR31	Control Sample	not detected	not detected	not detected
OR130018-BR32	Control Sample	not detected	not detected	not detected
OR130018-BR33	Wheat sample	detected	detected	detected
OR130018-BR34	Wheat sample	detected	detected	detected
OR130018-BR35	Wheat sample	detected	detected	detected
OR130018-BR36	Wheat sample	detected	detected	detected
OR130018-BR37	Wheat sample	detected	detected	detected
OR130018-BR38	Control Sample	not detected	not detected	not detected
OR130018-BR39	Control Sample	not detected	not detected	not detected
OR130018-BR40	Wheat sample	detected	detected	detected
OR130018-BR41	Control Sample	not detected	not detected	not detected
OR130018-BR42	Wheat sample	detected	detected	detected
OR130018-BR43	Wheat sample	detected	detected	detected
OR130018-BR44	Control Sample	not detected	not detected	not detected
OR130018-BR45	Wheat sample	detected	detected	detected
OR130018-BR46	Wheat sample	detected	detected	detected
OR130018-BR47	Control Sample	not detected	not detected	not detected

OR130018-BR48	Club wheat field to the east	not detected	not detected	not detected
OR130018-BR49	Club wheat from field to the north	not detected	not detected	not detected
OR130018-BR50	Pooled sample from consultant	detected	detected	detected
Monsanto positive CP4-1 positive control		detected	detected	detected
Monsanto positive CP4-2 positive control		not analyzed	not analyzed	
Monsanto positive CP4-3 positive control		not analyzed	not analyzed	
Monsanto positive CP4-4 positive control		not analyzed	not analyzed	
Monsanto positive CP4 negative control		not analyzed	not analyzed	

AMS photo	71800 GIPSA	GIPSA photo	MON 71400 AMS	MON 71400 GIPSA	MON #3 AMS
x	detected		not detected		not detected
x	detected		not detected		not detected
x	detected		not detected		not detected
x	detected		not detected		not detected
x	detected		not detected		not detected
x	no reaction		not detected		not detected
x	not detected				
x	not detected				
x	not detected				
x	no reaction				
x	not detected				
x	detected				
not robust--see D	detected				
x	detected				
x	no reaction				
x	no reaction				
x	not detected				
x	not detected				
x	not detected				
x	detected				
x	detected				
x	detected				
x	detected				
x	not detected				
x	not detected				
robust--see Deepak	detected				
x	detected				
x	detected				
x	detected				
x	detected				
x	no reaction				
x	not detected				
x	detected				
x	detected				
x	detected				
x	detected				
x	detected				
x	not detected				
x	not detected				
x	detected				
x	not detected				
x	detected				
x	detected				
x	not detected				
x	detected				
x	detected				
x	not detected				

x	not detected		
x	no reaction		
x	detected		
x	detected		
	not analyzed		
	not analyzed		
	not analyzed		
x	not analyzed		



# of samples	35S/Nos (transgene)	MON 71800	
27	+	+	GIPSA
3	+	No rx	
16	-	-	
3	-	No rx	

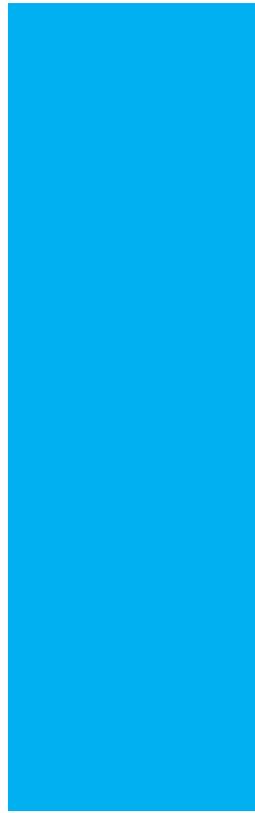
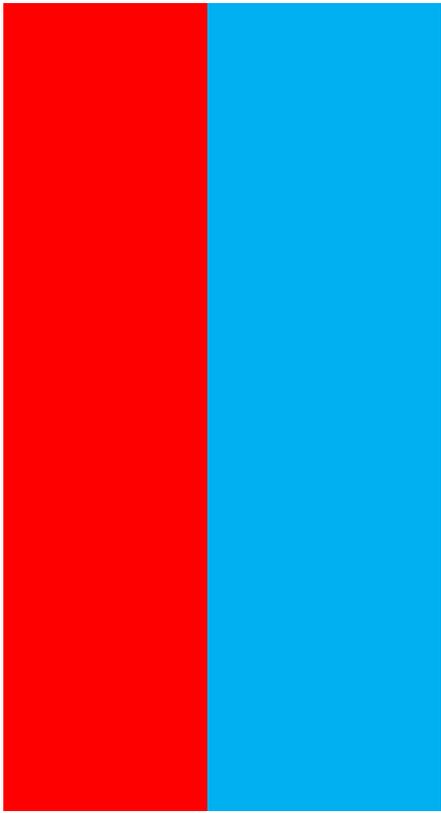
49

# of samples	35S/Nos (transgene)	MON 71800	
30	+	+	AMS
19	-	-	

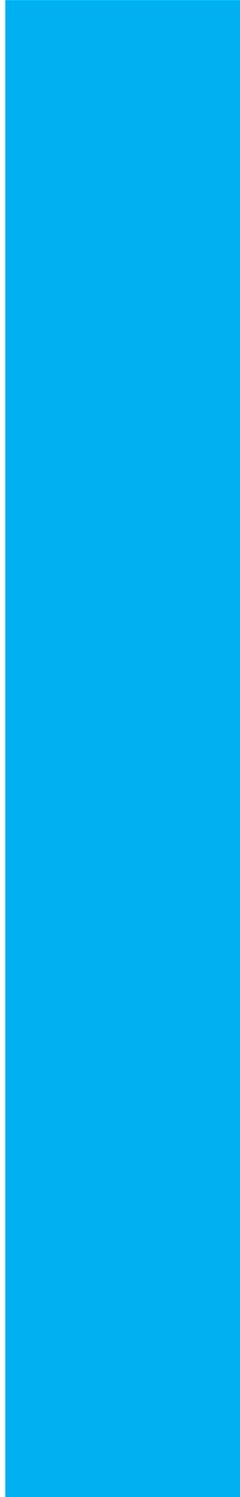
COC Item No.	35S AMS	NOS AMS	71800 AMS	AMS photo	71800 GIPSA
OR130018-BR1	detected	detected	detected	x	detected
OR130018-BR2	detected	detected	detected	x	detected
OR130018-BR3	detected	detected	detected	x	detected
OR130018-BR4	detected	detected	detected	x	detected
OR130018-BR5	detected	detected	detected	x	detected
OR130018-BR6	detected	detected	detected	x	no reaction
OR130018-BR7	not detected	not detected	not detected	x	not detected
OR130018-BR8	not detected	not detected	not detected	x	not detected
OR130018-BR9	not detected	not detected	not detected	x	not detected
OR130018-BR10	not detected	not detected	not detected	x	no reaction
OR130018-BR11	not detected	not detected	not detected	x	not detected
OR130018-BR12	detected	detected	detected	x	detected
OR130018-BR13	detected	detected	detected	not robust--see D	detected
OR130018-BR14	detected	detected	detected	x	detected
OR130018-BR15	detected	detected	detected	x	no reaction
OR130018-BR16	detected	detected	detected	x	no reaction
OR130018-BR17	not detected	not detected	not detected	x	not detected
OR130018-BR18	not detected	not detected	not detected	x	not detected
OR130018-BR19	not detected	not detected	not detected	x	not detected
OR130018-BR20	detected	detected	detected	x	detected
OR130018-BR21	detected	detected	detected	x	detected
OR130018-BR22	detected	detected	detected	x	detected
OR130018-BR23	detected	detected	detected	x	detected
OR130018-BR24	not detected	not detected	not detected	x	not detected
OR130018-BR25	not detected	not detected	not detected	x	not detected
OR130018-BR26	detected	detected	detected	robust--see Deepak	detected
OR130018-BR27	detected	detected	detected	x	detected
OR130018-BR28	detected	detected	detected	x	detected
OR130018-BR29	detected	detected	detected	x	detected
OR130018-BR30	detected	detected	detected	x	detected
OR130018-BR31	not detected	not detected	not detected	x	no reaction
OR130018-BR32	not detected	not detected	not detected	x	not detected
OR130018-BR33	detected	detected	detected	x	detected
OR130018-BR34	detected	detected	detected	x	detected
OR130018-BR35	detected	detected	detected	x	detected
OR130018-BR36	detected	detected	detected	x	detected
OR130018-BR37	detected	detected	detected	x	detected
OR130018-BR38	not detected	not detected	not detected	x	not detected
OR130018-BR39	not detected	not detected	not detected	x	not detected
OR130018-BR40	detected	detected	detected	x	detected
OR130018-BR41	not detected	not detected	not detected	x	not detected
OR130018-BR42	detected	detected	detected	x	detected
OR130018-BR43	detected	detected	detected	x	detected
OR130018-BR44	not detected	not detected	not detected	x	not detected
OR130018-BR45	detected	detected	detected	x	detected

OR130018-BR46	detected	detected	detected	x	detected
OR130018-BR47	not detected	not detected	not detected	x	not detected
OR130018-BR48	not detected	not detected	not detected	x	not detected
OR130018-BR49	not detected	not detected	not detected	x	no reaction
OR130018-BR50	detected	detected	detected	x	detected
Monsanto positive CP4-1 positive control	detected	detected	detected	x	detected
Monsanto positive CP4-2 positive control	not analyzed	not analyzed			not analyzed
Monsanto positive CP4-3 positive control	not analyzed	not analyzed			not analyzed
Monsanto positive CP4-4 positive control	not analyzed	not analyzed			not analyzed
Monsanto positive CP4 negative control	not analyzed	not analyzed		x	not analyzed

GIPSA photo	MON 71400 AMS	MON 71400 GIPSA	MON #3 AMS	MON #3 GIPSA
	not detected		not detected	
	not detected		not detected	
	not detected		not detected	
	not detected		not detected	
	not detected		not detected	
	not detected		not detected	



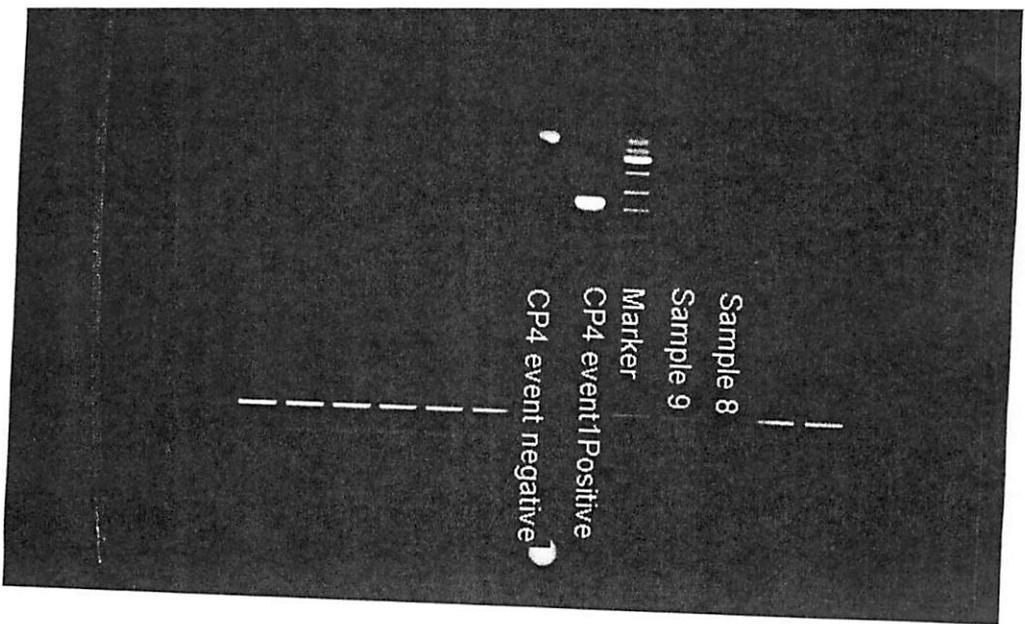
MON 71200 AMS	MON 71200 GIPSA
not detected	



# of samples	35S/Nos (transgene)	MON 71800	
27	+	+	GIPSA
3	+	No rx	
16	-	-	
3	-	No rx	

49

# of samples	35S/Nos (transgene)	MON 71800	
30	+	+	AMS
19	-	-	



**From:** [Jhee, Edward M - APHIS](#)  
**To:** (b) (6), (b) (7) - APHIS  
**Cc:** [Srivastava, Deepak - AMS](#); [Simonds, Roger - AMS](#); [Barber, Jonathan - AMS](#)  
**Subject:** FW: COC & Shipment of Samples on Monday, May 20th  
**Date:** Monday, June 03, 2013 10:51:44 AM  
**Attachments:** [COC-witness\\_05-20-2013.pdf](#)

---

(b) (6) —here's the COC from AMS to GIPSA for the plant samples.  
(6)

AMS--We still need the COC for the DNA samples sent to Eurofins. We have the witness checklist (and that indicates the COC was completed).

Thanks!--Ed

---

**From:** Barber, Jonathan - AMS  
**Sent:** Monday, May 20, 2013 5:36 PM  
**To:** Jhee, Edward M - APHIS; (b) (6), (b) (7) - APHIS; (b) (6), (b) (7) - APHIS; Bell, Tandace - GIPSA; Reilly, Byron - GIPSA  
**Cc:** Juarez, Bernadette R - APHIS; Hoffman, Neil E - APHIS; Turner, John T - APHIS; Srivastava, Deepak - AMS; Simonds, Roger - AMS; Guo, Ruihong - AMS  
**Subject:** COC & Shipment of Samples on Monday, May 20th

Hello Everyone,

Attached you will find the chain of custody for the samples shipped today to arrive early A.M. on Tuesday, May 21, 2013. The attachment also contains the checklist/witness form and a copy of the shipping label containing the tracking number (1Z 072 E1E 15 9695 7047).

The CD's containing the photos will be sent to Sue Orham on Tuesday, May 21, 2013.

The items to be sent to Eurofins/Operon for DNA sequencing will also be shipped on Tuesday, May 21, 2013.

Best regards,

*Jonathan Barber*  
Supervisory Chemist  
USDA AMS S&T Laboratory Division  
National Science Laboratory  
801 Summit Crossing Place  
Suite B  
Gastonia, NC 28054

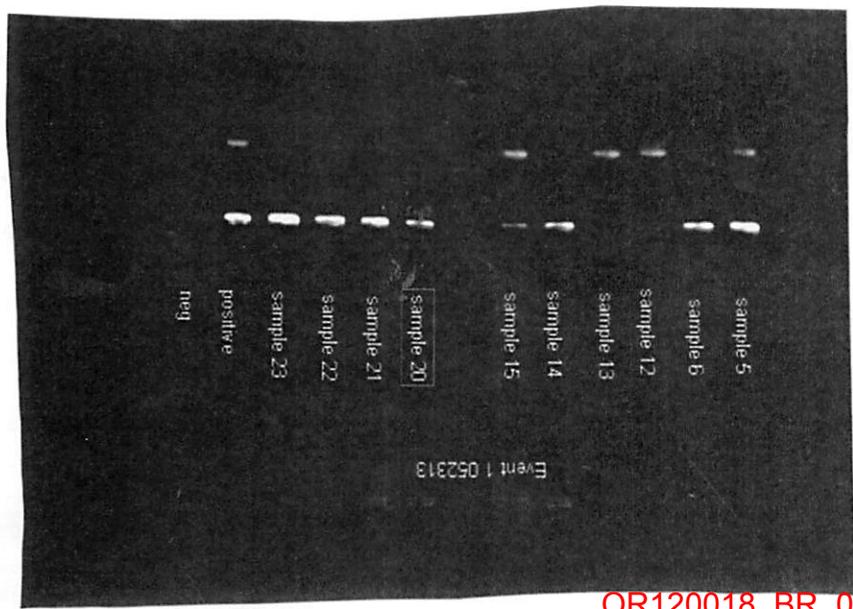
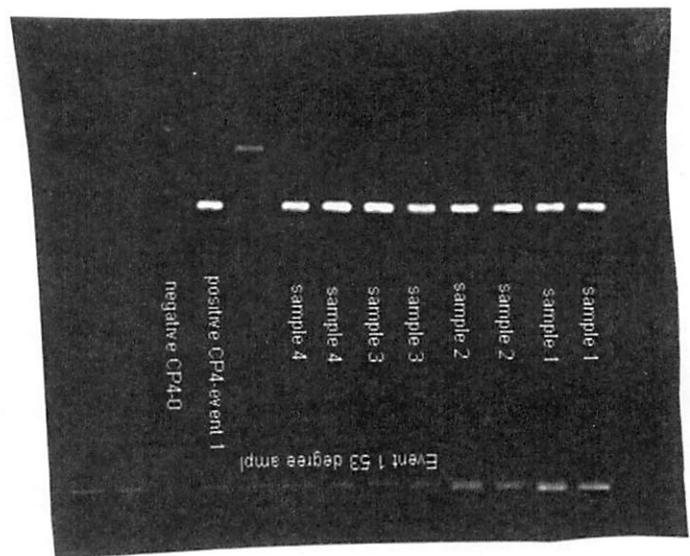
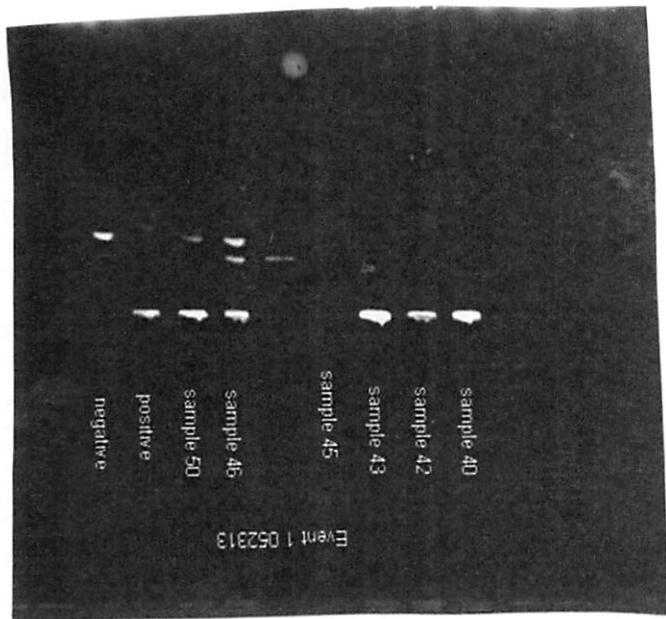
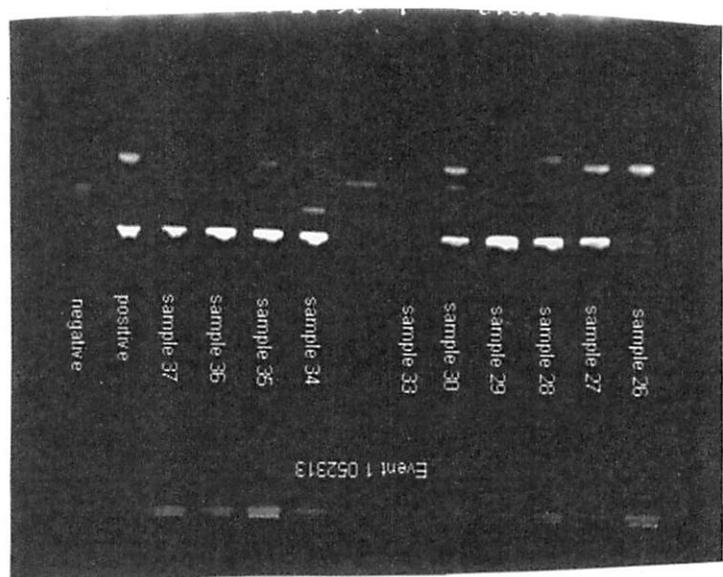
Main: 704-867-3873  
Direct: 704-833-1523  
Mobile: (b) (6), (b) (7)  
Fax: 704-853-2800

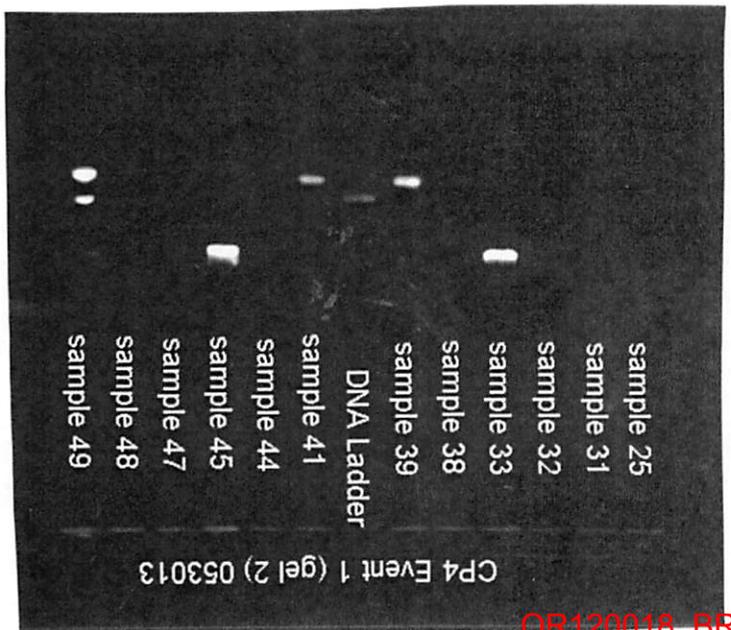
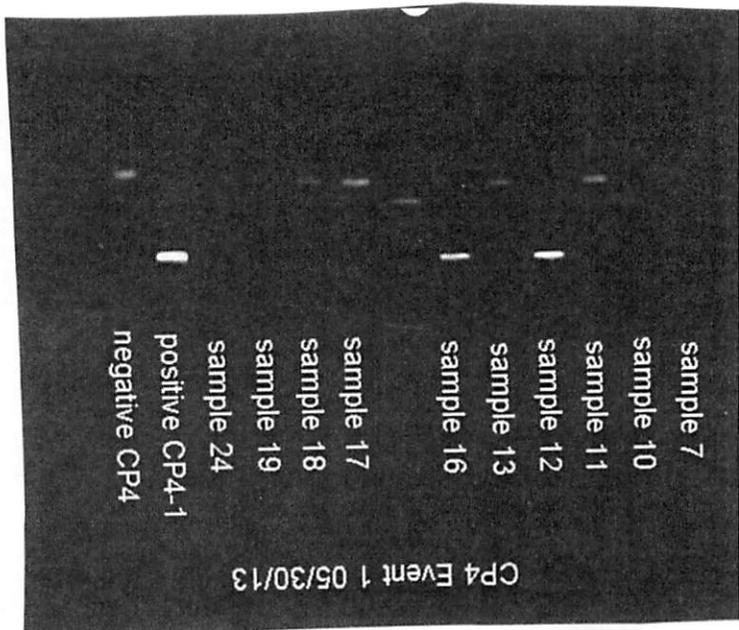
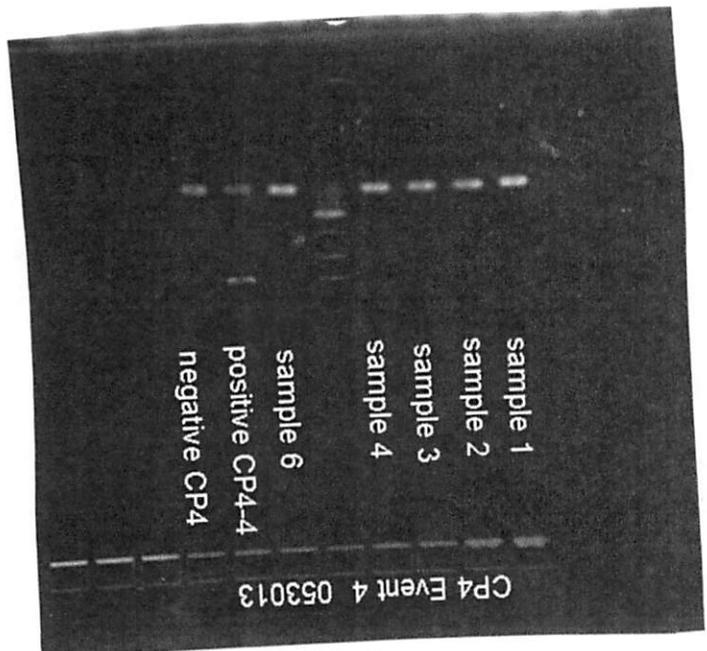
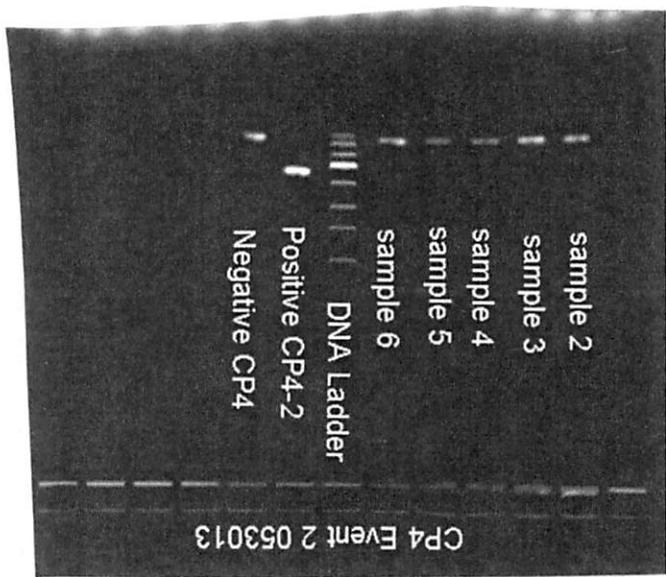
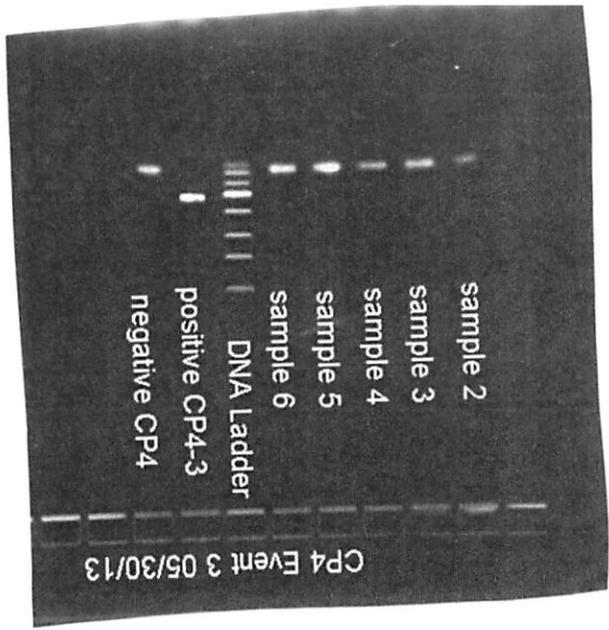
OR120018\_BR\_003791



Sample 13<sup>16</sup> PCR product were not as robust as others. Hence, not ligated up on print & xerox (see next sheet)

Sample 13, 33 & 45 were retested and are event positive





## Document Information

File Name: 05122013\_WHEAT-1-20,50  
Barcode:  
Operator:  
Assay: Absolute Quantification  
Plate Format: 96 Wells Clear Plate  
Instrument: 7900  
Instrument #: 200269  
Acquisition Started: Sun May 12 12:59:13 EDT 2013  
Acquisition Ended: Sun May 12 14:38:53 EDT 2013  
PCR Volume: 25  
Last Modified: Sun May 12 14:39:05 EDT 2013  
Audit Record: No  
Plate Comments:

### 35S-TMP

Well	Sample	Task	Ct	Avg Ct	Ct SD	Quantity
1	Wheat-1	Unknown	25.744545	26.366486	0.8795582	GMO positive
3	Wheat-1	Unknown	26.988428	26.366486	0.8795582	
5	Wheat-2	Unknown	26.23211	26.430191	0.28013155	
7	Wheat-2	Unknown	26.628275	26.430191	0.28013155	
9	Wheat-3	Unknown	25.576206	26.15972	0.82521236	
11	Wheat-3	Unknown	26.743233	26.15972	0.82521236	
13	Wheat-4	Unknown	25.988373	26.010593	0.03142604	
15	Wheat-4	Unknown	26.032816	26.010593	0.03142604	
17	Wheat-5	Unknown	23.695498	24.606386	1.2881911	
19	Wheat-5	Unknown	25.517275	24.606386	1.2881911	
21	Wheat-6	Unknown	25.679646	26.770588	1.5428269	
23	Wheat-6	Unknown	27.861532	26.770588	1.5428269	
25	Wheat-7	Unknown	Undetermined			GMO negative
27	Wheat-7	Unknown	Undetermined			
29	Wheat-8	Unknown	Undetermined			
31	Wheat-8	Unknown	Undetermined			
33	Wheat-9	Unknown	Undetermined			
35	Wheat-9	Unknown	Undetermined			
37	Wheat-10	Unknown	Undetermined			
39	Wheat-10	Unknown	Undetermined			
41	Wheat-11	Unknown	Undetermined			
43	Wheat-11	Unknown	Undetermined			
45	Wheat-12	Unknown	26.179365	26.934479	1.067892	
47	Wheat-12	Unknown	27.689592	26.934479	1.067892	
49	Wheat-13	Unknown	25.29488	26.225292	1.315803	
51	Wheat-13	Unknown	27.155706	26.225292	1.315803	
53	Wheat-14	Unknown	25.633177	26.21081	0.81689626	
55	Wheat-14	Unknown	26.788443	26.21081	0.81689626	
57	Wheat-15	Unknown	26.382898	26.760477	0.533977	
59	Wheat-15	Unknown	27.138056	26.760477	0.533977	
61	Wheat-16	Unknown	28.619528	28.63249	0.018331518	
63	Wheat-16	Unknown	28.645452	28.63249	0.018331518	
65	Wheat-17	Unknown	38.041946	37.957985	0.11873947	

Mean Quantity Std. Dev.

Well	Sample	Task	Ct	Avg Ct	Ct SD	Quantity
67	Wheat-17	Unknown	37.874023	37.957985	0.11873947	marginal? (high Ct)
69	Wheat-18	Unknown	Undetermined			GMO negative
71	Wheat-18	Unknown	Undetermined			
73	Wheat-19	Unknown	Undetermined			
75	Wheat-19	Unknown	Undetermined			
77	Wheat-20	Unknown	26.645416	27.146875	0.7091703	
79	Wheat-20	Unknown	27.648335	27.146875	0.7091703	GMO positive - 1
81	Wheat-50	Unknown	24.84768	24.956495	0.15388927	
83	Wheat-50	Unknown	25.065311	24.956495	0.15388927	
85	cp4-1	Unknown	27.109373			
<del>87</del>	<del>CP4-1</del>	<del>Unknown</del>	<del>33.865623</del>			
<del>89</del>	<del>CP4-1</del>	<del>Unknown</del>	<del>36.724014</del>			
91	POS	Unknown	37.568077			
93	NEG	Unknown	Undetermined			
95	NTC	Unknown	Undetermined			

Mean Quantity Std. Dev.

**NOS**

Well	Sample	Task	Ct	Avg Ct	Ct SD	Quantity
2	Wheat-1	Unknown	25.619696	25.793777	0.2461875	
4	Wheat-1	Unknown	25.967857	25.793777	0.2461875	
6	Wheat-2	Unknown	25.214241	25.362438	0.2095811	
8	Wheat-2	Unknown	25.510633	25.362438	0.2095811	
10	Wheat-3	Unknown	25.039968	25.424803	0.54423785	
12	Wheat-3	Unknown	25.809637	25.424803	0.54423785	
14	Wheat-4	Unknown	24.896805	25.093487	0.27815166	
16	Wheat-4	Unknown	25.29017	25.093487	0.27815166	
18	Wheat-5	Unknown	23.387526	24.036106	0.91723144	
20	Wheat-5	Unknown	24.684687	24.036106	0.91723144	
22	Wheat-6	Unknown	25.19289	26.264854	1.5159863	
24	Wheat-6	Unknown	27.336819	26.264854	1.5159863	
26	Wheat-7	Unknown	Undetermined			
28	Wheat-7	Unknown	Undetermined			
30	Wheat-8	Unknown	Undetermined			
32	Wheat-8	Unknown	Undetermined			
34	Wheat-9	Unknown	Undetermined			
36	Wheat-9	Unknown	Undetermined			
38	Wheat-10	Unknown	Undetermined			
40	Wheat-10	Unknown	Undetermined			
42	Wheat-11	Unknown	Undetermined			
44	Wheat-11	Unknown	Undetermined			
46	Wheat-12	Unknown	27.165318	27.634521	0.6635559	
48	Wheat-12	Unknown	28.103727	27.634521	0.6635559	
50	Wheat-13	Unknown	27.766077	28.191582	0.60175586	
52	Wheat-13	Unknown	28.617088	28.191582	0.60175586	
54	Wheat-14	Unknown	26.450357	26.726871	0.39104992	
56	Wheat-14	Unknown	27.003386	26.726871	0.39104992	
58	Wheat-15	Unknown	27.616268	27.75821	0.20073499	
60	Wheat-15	Unknown	27.90015	27.75821	0.20073499	
62	Wheat-16	Unknown	28.560963	29.124678	0.7972134	
64	Wheat-16	Unknown	29.688393	29.124678	0.7972134	
66	Wheat-17	Unknown	Undetermined			

GMO negative



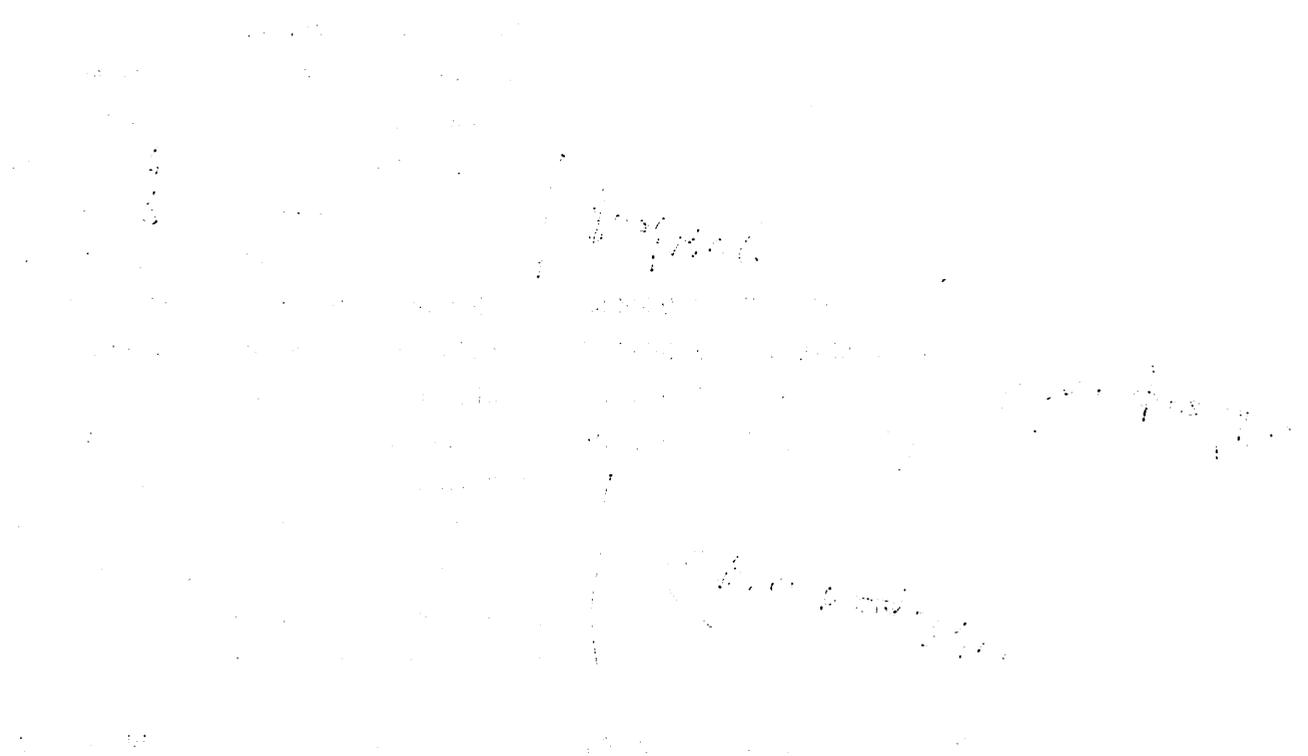
Well	Sample	Task	Ct	Avg Ct	Ct SD	Quantity
68	Wheat-17	Unknown	Undetermined			
70	Wheat-18	Unknown	Undetermined			
72	Wheat-18	Unknown	Undetermined			
74	Wheat-19	Unknown	Undetermined			
76	Wheat-19	Unknown	Undetermined			
78	Wheat-20	Unknown	28.314404	28.566658	0.3567417	
80	Wheat-20	Unknown	28.818913	28.566658	0.3567417	
82	Wheat-50	Unknown	23.946321	24.292637	0.48976254	
84	Wheat-50	Unknown	24.63895	24.292637	0.48976254	
86	cp4-1	Unknown	26.461105			
88	<del>CP4-2</del>	<del>Unknown</del>	<del>37.517197</del>			
90	<del>CP4-2</del>	<del>Unknown</del>	<del>34.72091</del>			
92	POS	Unknown	34.513557			
94	NEG	Unknown	Undetermined			
96	NTC	Unknown	Undetermined			

no negative

no positive

positive

Mean Quantity Std. Dev.



## Document Information

File Name: 05172013\_wHEAT21-49  
Barcode:  
Operator:  
Assay: Absolute Quantification  
Plate Format: 96 Wells Clear Plate  
Instrument: 7900  
Instrument #: 200269  
Acquisition Started: Fri May 17 09:07:00 EDT 2013  
Acquisition Ended: Fri May 17 10:46:15 EDT 2013  
PCR Volume: 25  
Last Modified: Fri May 17 10:46:27 EDT 2013  
Audit Record: No  
Plate Comments:

### 35S-TMP

Well	Sample	Task	Ct	Avg Ct	Ct SD	Quantity	Mean Quantity
1	BR-21	Unknown	26.592491				
3	BR-22	Unknown	25.80011				
5	BR-23	Unknown	26.333086				
7	BR-24	Unknown	Undetermined				
9	BR-25	Unknown	Undetermined				
11	BR-26	Unknown	27.623764				
13	BR-27	Unknown	26.303968				
15	BR-28	Unknown	26.455616				
17	BR-29	Unknown	26.418913				
19	BR-30	Unknown	27.417898				
21	BR-31	Unknown	Undetermined				
23	BR-32	Unknown	Undetermined				
25	BR-33	Unknown	26.497744				
27	BR-34	Unknown	26.393951				
29	BR-35	Unknown	25.56006				
31	BR-36	Unknown	25.132193				
33	BR-37	Unknown	27.932226				
35	BR-38	Unknown	Undetermined				
37	BR-39	Unknown	Undetermined				
39	BR-40	Unknown	26.42996				
41	BR-41	Unknown	Undetermined				
43	BR-42	Unknown	27.324928				
45	BR-43	Unknown	25.671675				
47	BR-44	Unknown	Undetermined				
49	BR-45	Unknown	25.01162				
51	BR-46	Unknown	26.613047				
53	BR-47	Unknown	38.51803				
55	BR-48	Unknown	39.37536				
57	BR-49	Unknown	Undetermined				
59	POS	Unknown	Undetermined				
61	NEG	Unknown	Undetermined				
63	NTC	Unknown	Undetermined				

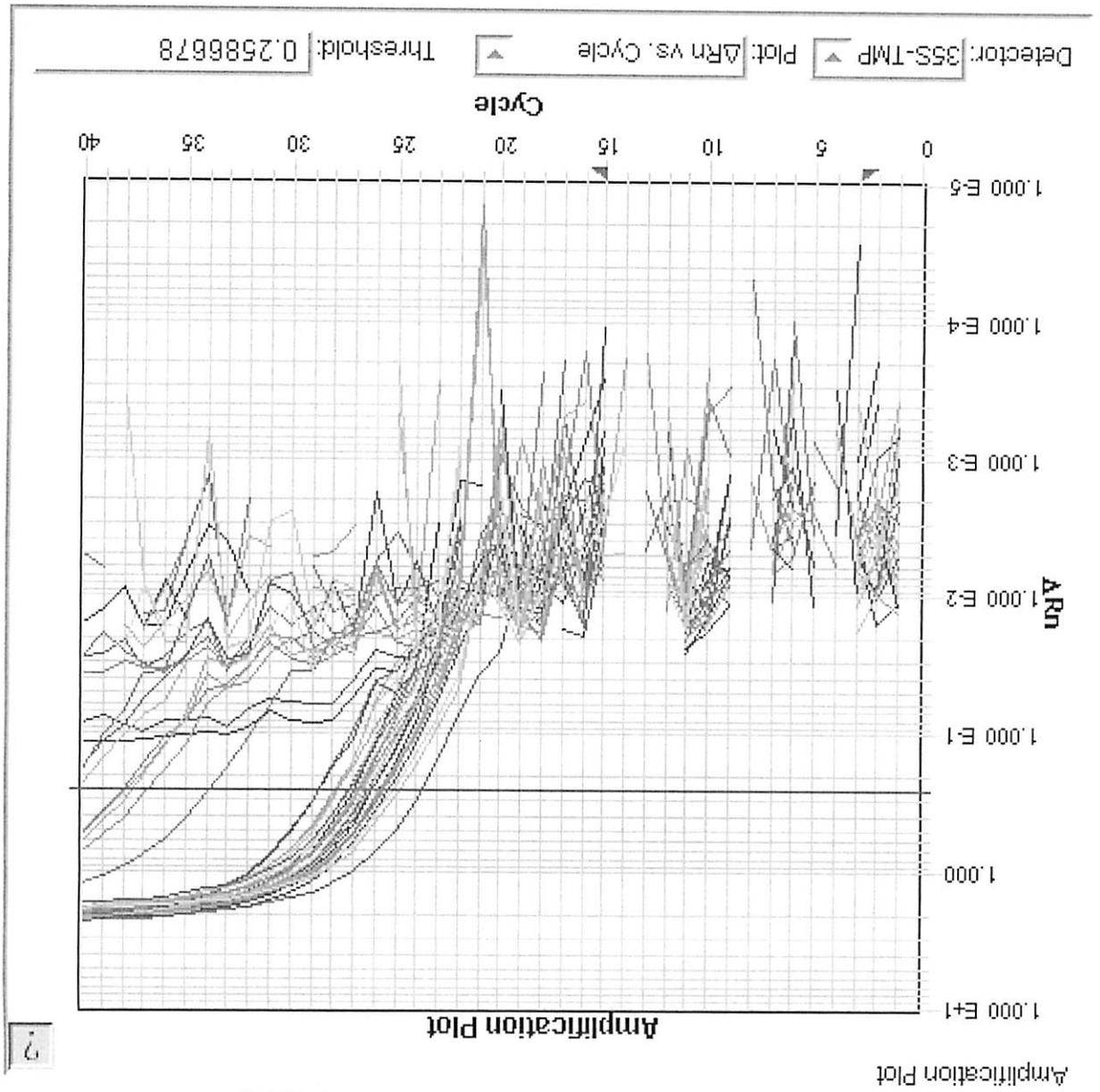
*Very high Ct  
Back ground noise ~ GMS negative*

# NOS

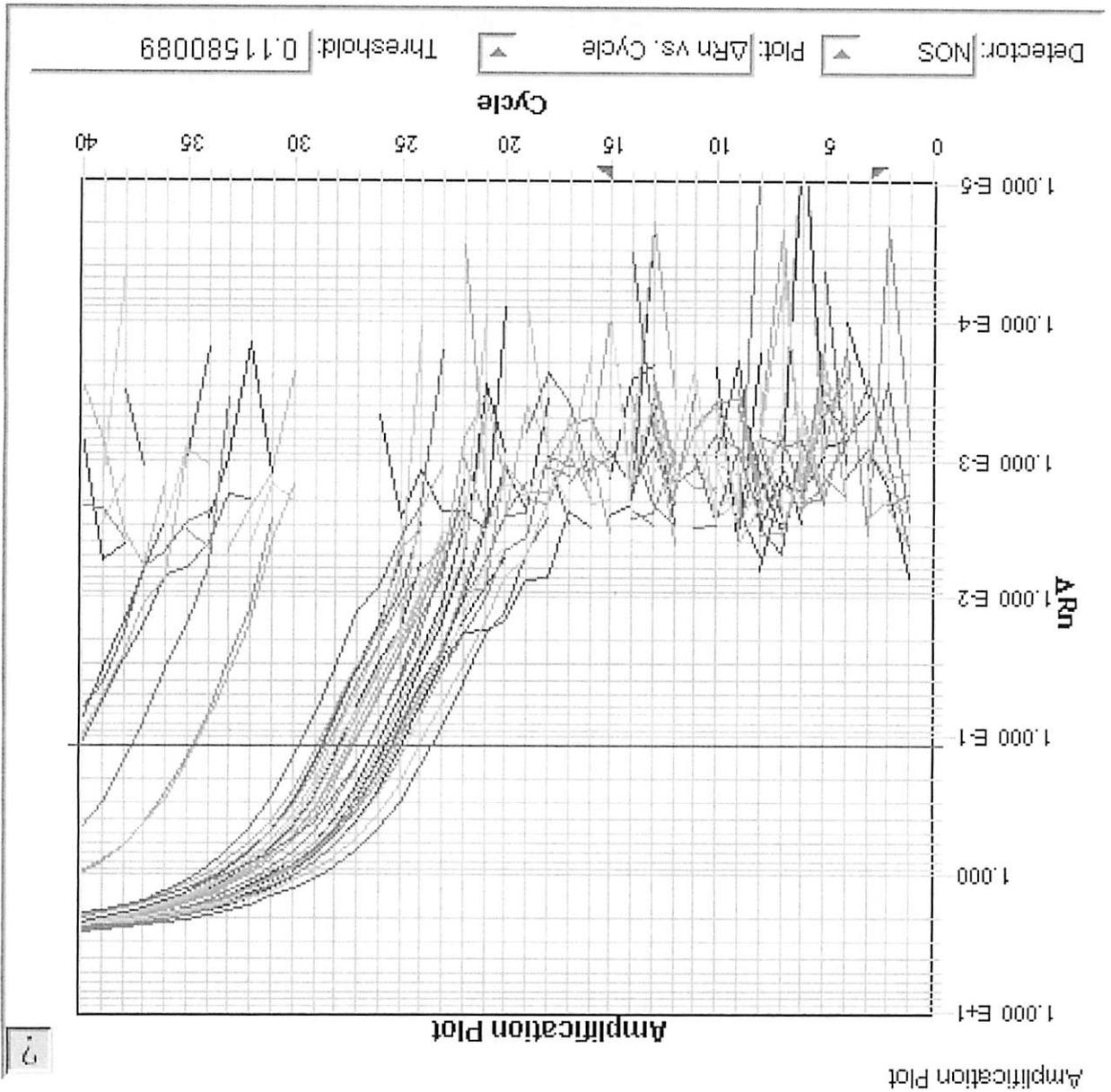
Well	Sample	Task	Ct	Avg Ct	Ct SD	Quantity	Mean Quantity
2	BR-21	Unknown	26.079962				
4	BR-22	Unknown	26.398834				
6	BR-23	Unknown	25.576454				
8	BR-24	Unknown	Undetermined				
10	BR-25	Unknown	Undetermined				
12	BR-26	Unknown	28.467459				
14	BR-27	Unknown	25.768679				
16	BR-28	Unknown	25.69757				
18	BR-29	Unknown	25.532785				
20	BR-30	Unknown	26.03709				
22	BR-31	Unknown	Undetermined				
24	BR-32	Unknown	Undetermined				
26	BR-33	Unknown	26.27439				
28	BR-34	Unknown	25.882263				
30	BR-35	Unknown	25.286604				
32	BR-36	Unknown	25.020964				
34	BR-37	Unknown	26.817276				
36	BR-38	Unknown	Undetermined				
38	BR-39	Unknown	Undetermined				
40	BR-40	Unknown	25.882826				
42	BR-41	Unknown	Undetermined				
44	BR-42	Unknown	26.544027				
46	BR-43	Unknown	25.443285				
48	BR-44	Unknown	Undetermined				
50	BR-45	Unknown	24.767147				
52	BR-46	Unknown	25.989672				
54	BR-47	Unknown	39.338078				
56	BR-48	Unknown	38.867386				
58	BR-49	Unknown	Undetermined				
60	POS	Unknown	35.17591				
62	NEG	Unknown	Undetermined				
64	NTC	Unknown	Undetermined				

? very high ct back ground  
= 6mo negative

### Amplification Plot



### Amplification Plot

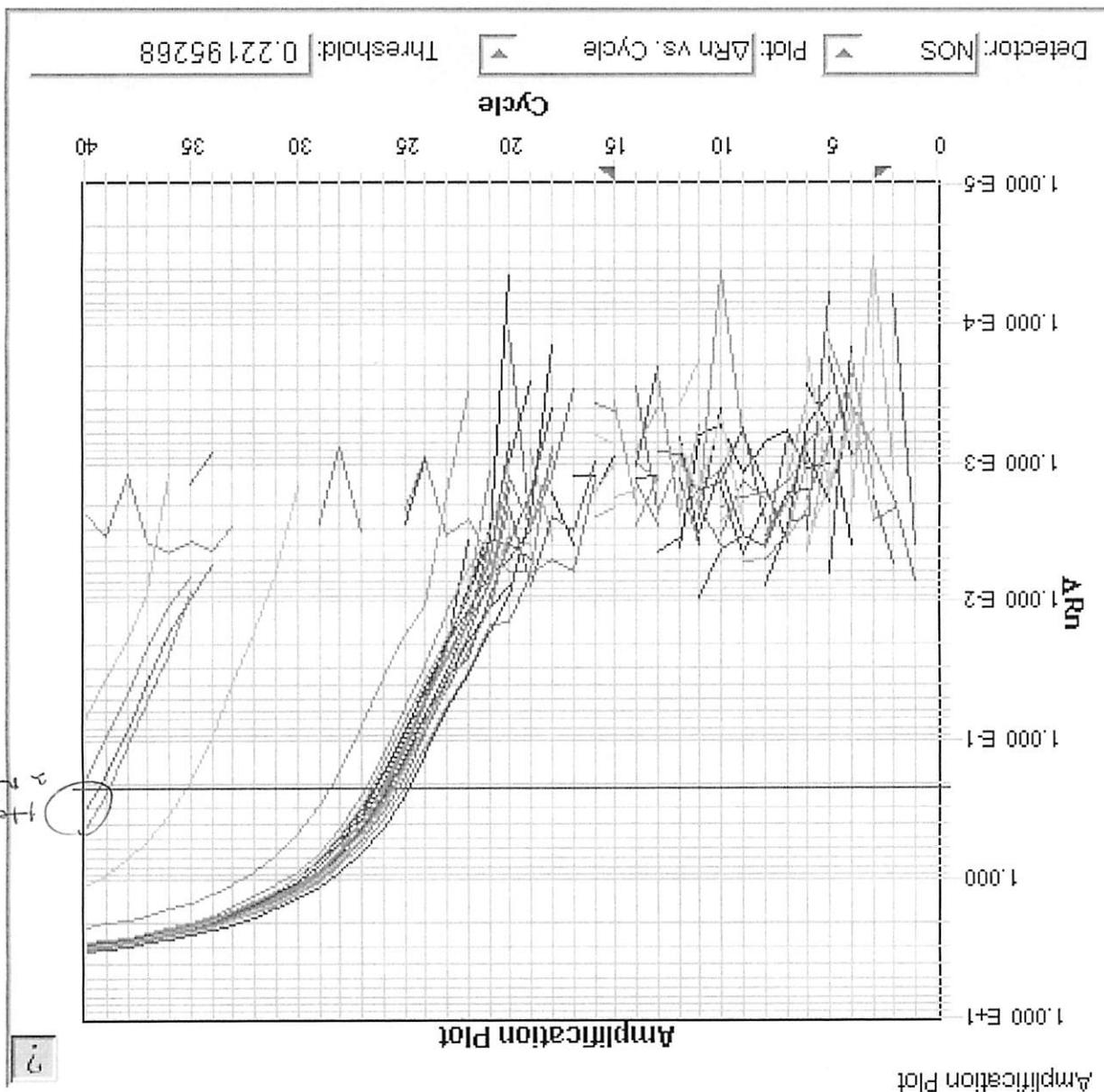


# Amplification Plot

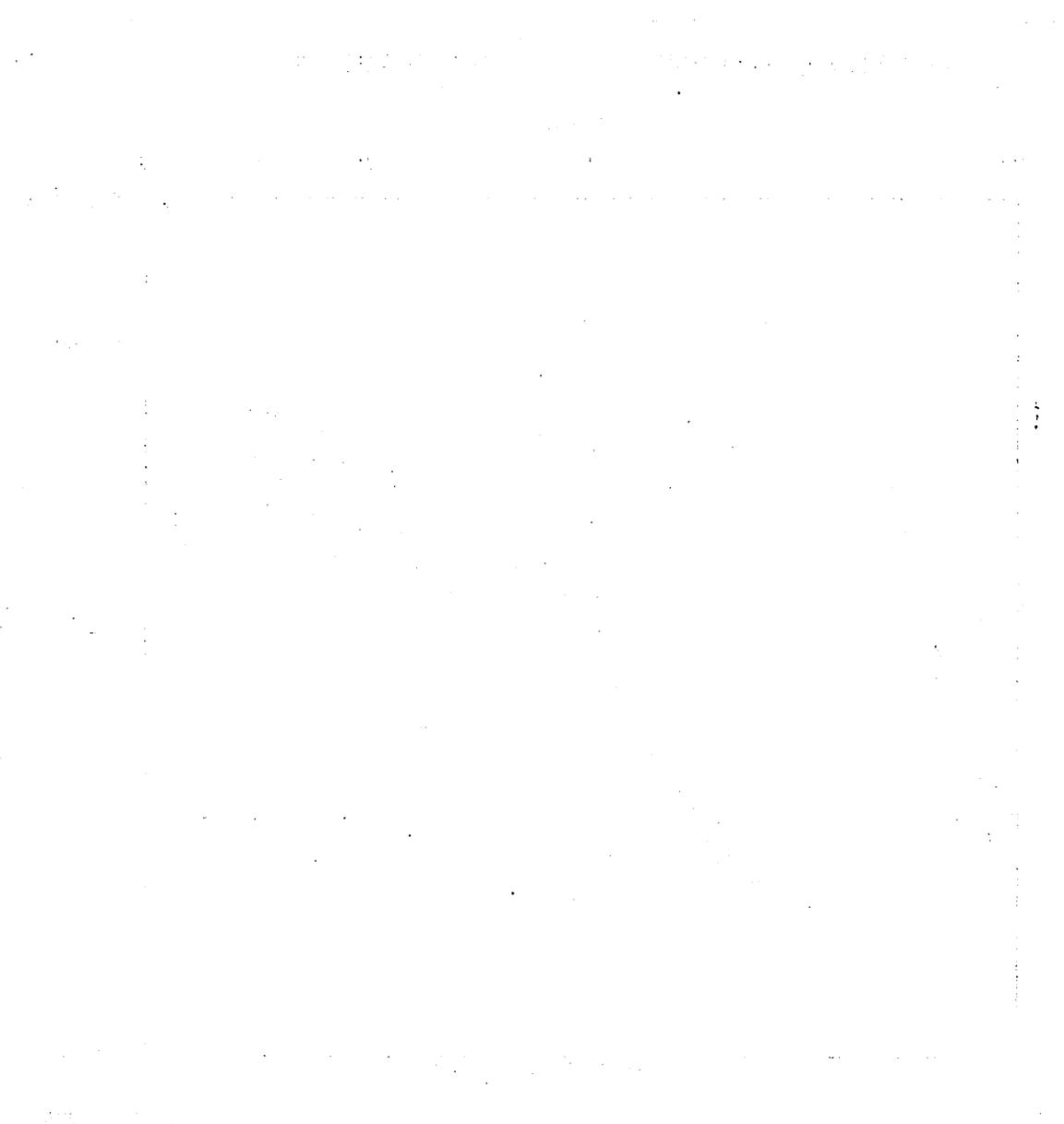
Fri, 17 May 2013 11:34:57 -0400

05172013\_WHEAT121-49.sds  
**OR120018\_BR\_003807**

User



**Std. Dev.**



### Amplification Plot

