DATE: JULY 24, 2015 EUT: CELLULAR PHONE WITH BLUETOOTH AND WLAN RADIOS FCC ID: BCG-E2946A

least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e. 1 MHz or 1 percent of emission bandwidth, as specified). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

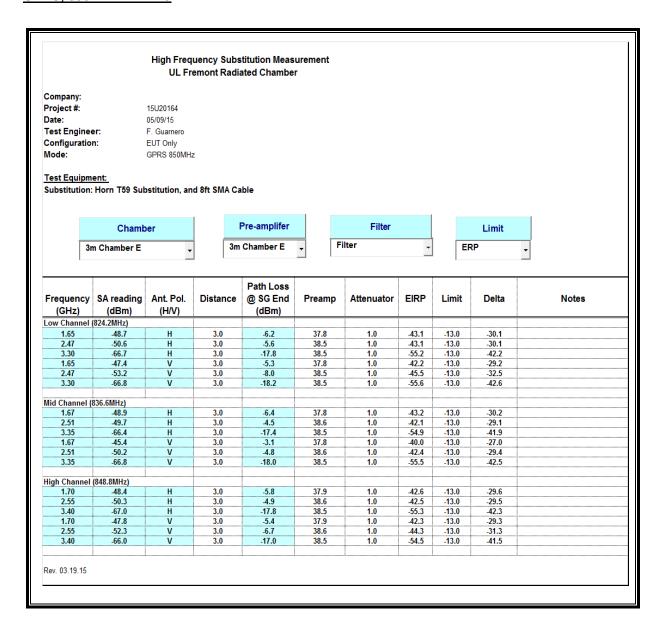
## **MODES TESTED**

- **GPRS/EGPRS**
- UMTS, REL 99 and HSDPA
- CDMA2000, 1xRTT and EVDO Rev A

### **RESULTS**

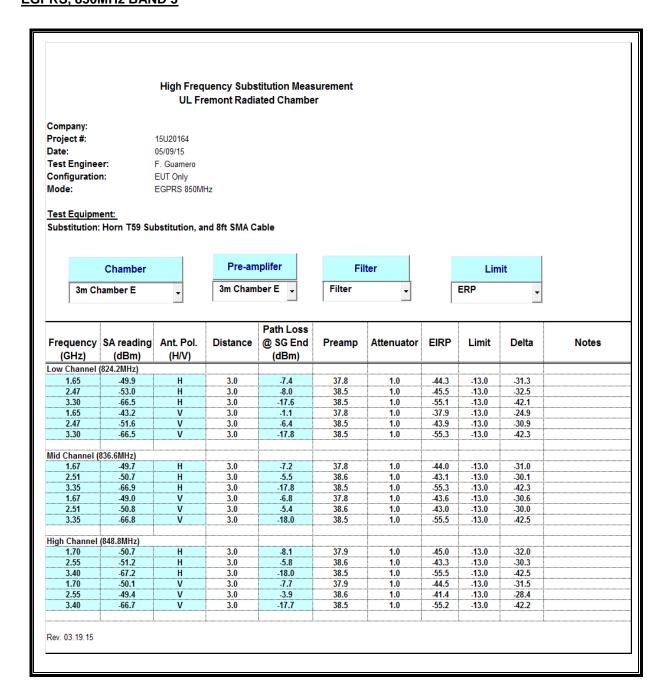
#### 10.7.1. **GSM**

### GPRS, 850MHz BAND 5



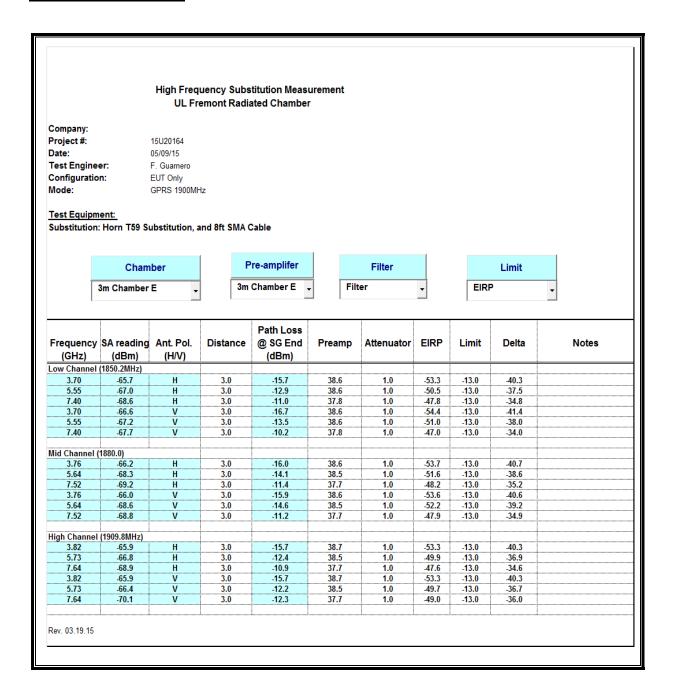
DATE: JULY 24, 2015

# EGPRS, 850MHz BAND 5



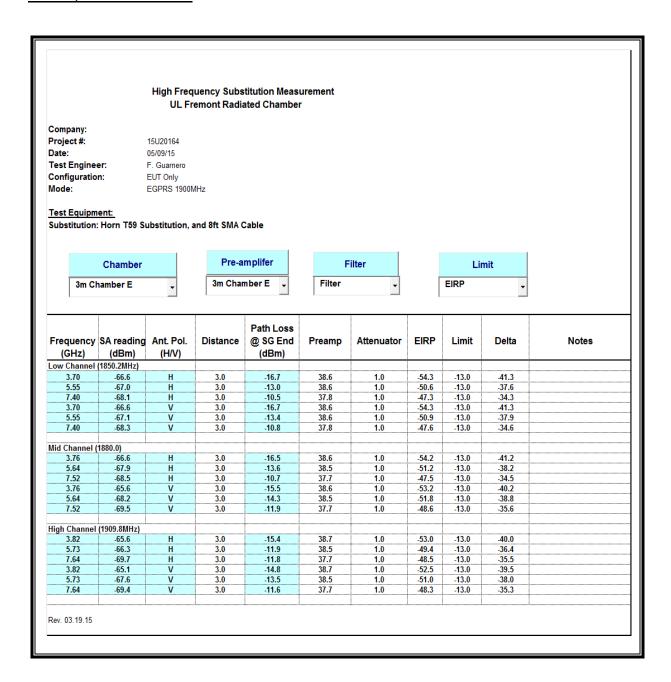
DATE: JULY 24, 2015

### GPRS, 1900MHz BAND 2



DATE: JULY 24, 2015

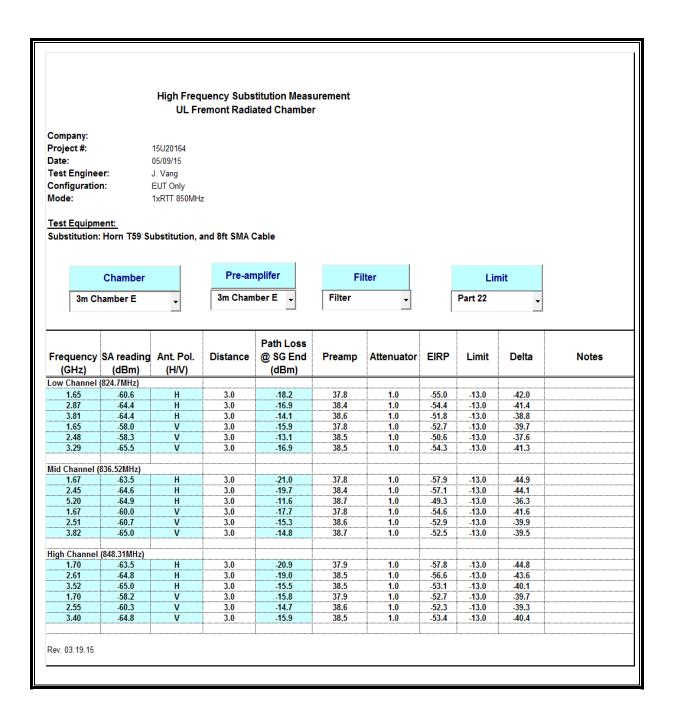
# EGPRS, 1900MHz BAND 2



DATE: JULY 24, 2015

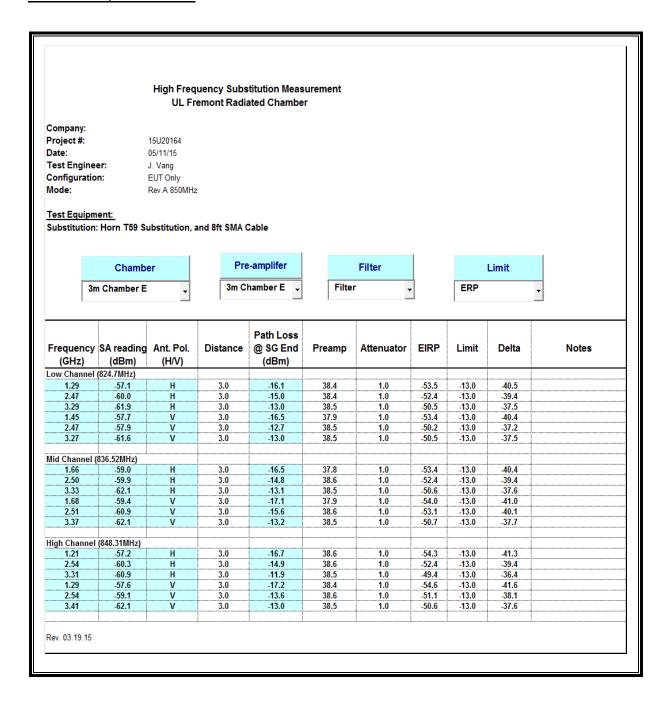
#### 10.7.2. **CDMA2000**

## CDMA2000 1xRTT, 850MHz BC0



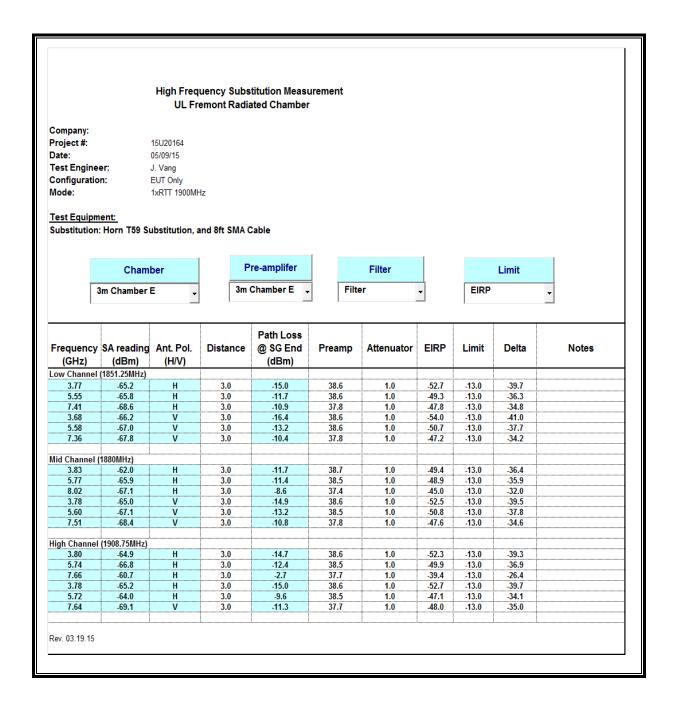
DATE: JULY 24, 2015

# EVDO-Rev A, 850MHz BC0



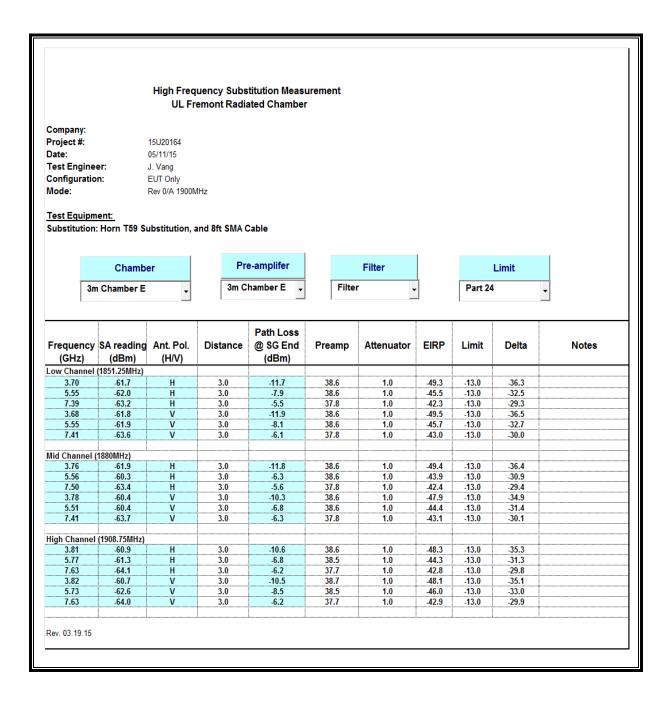
DATE: JULY 24, 2015

### CDMA2000 1xRTT, 1900MHz BC1



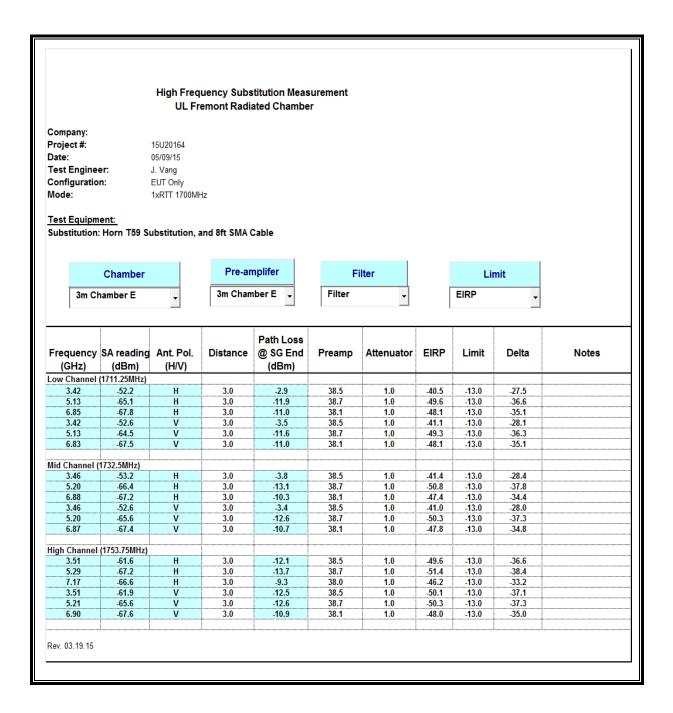
DATE: JULY 24, 2015

# EVDO-Rev A, 1900MHz BC1



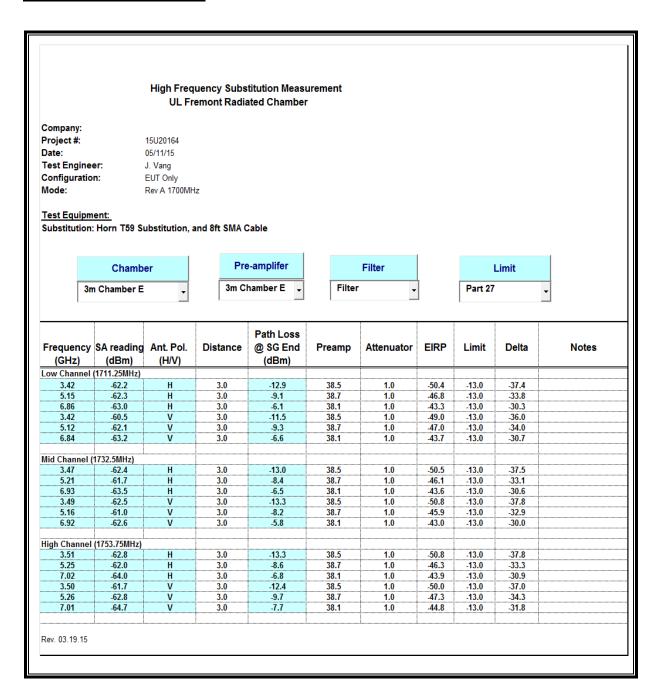
DATE: JULY 24, 2015

# CDMA2000 1xRTT, 1700MHz BC15



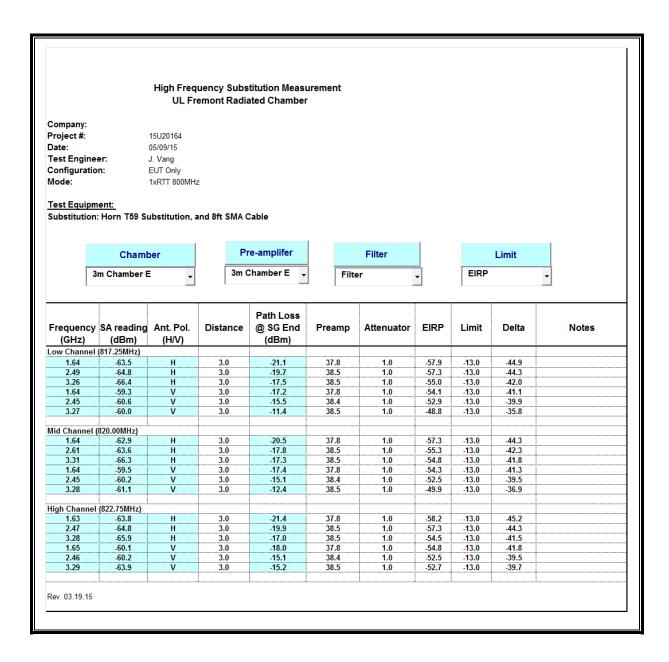
DATE: JULY 24, 2015

### EVDO-Rev A, 1700MHz BC15



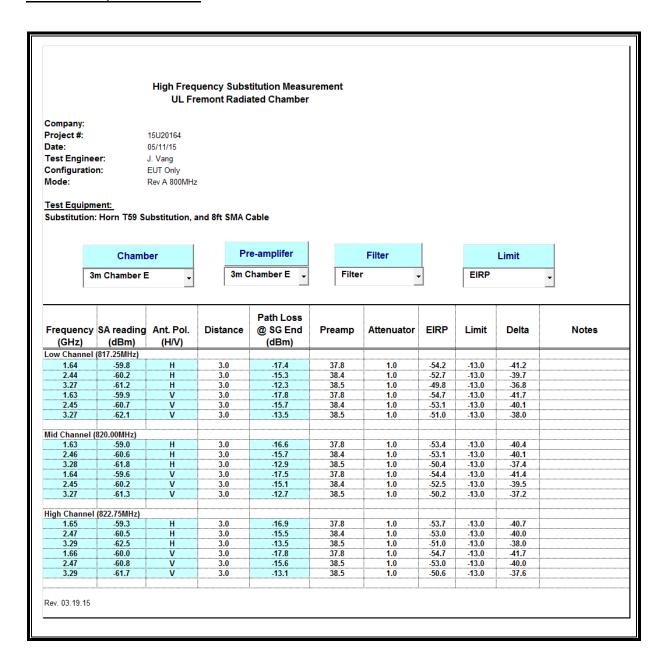
DATE: JULY 24, 2015

### CDMA2000 1xRTT, 800MHz BC10



DATE: JULY 24, 2015

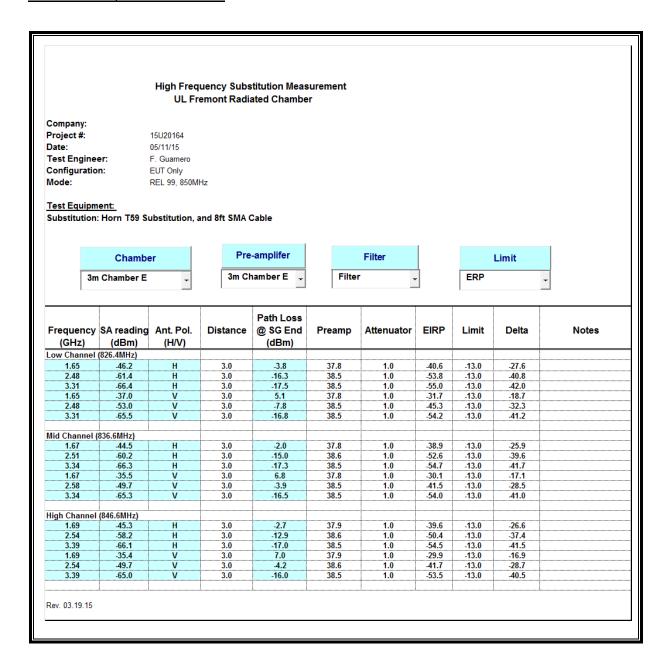
# EVDO-Rev A, 800MHz BC10



DATE: JULY 24, 2015

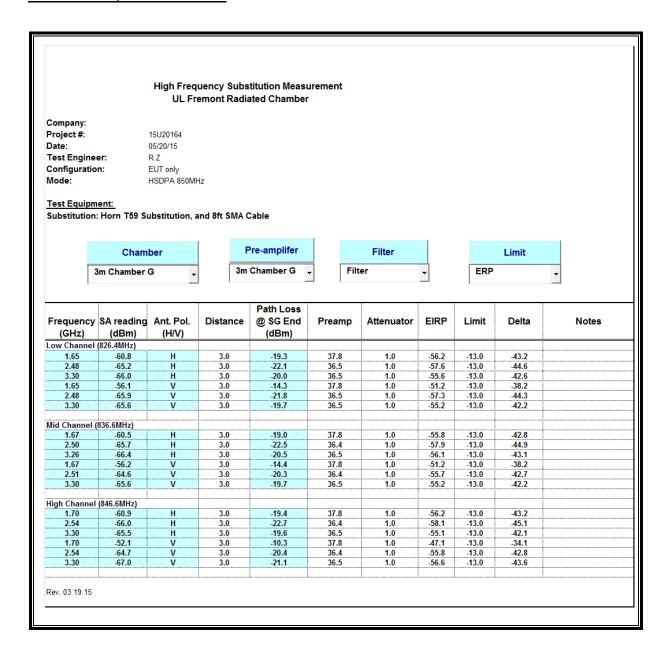
#### 10.7.3. **UMTS**

### UMTS REL 99, 850MHz BAND 5



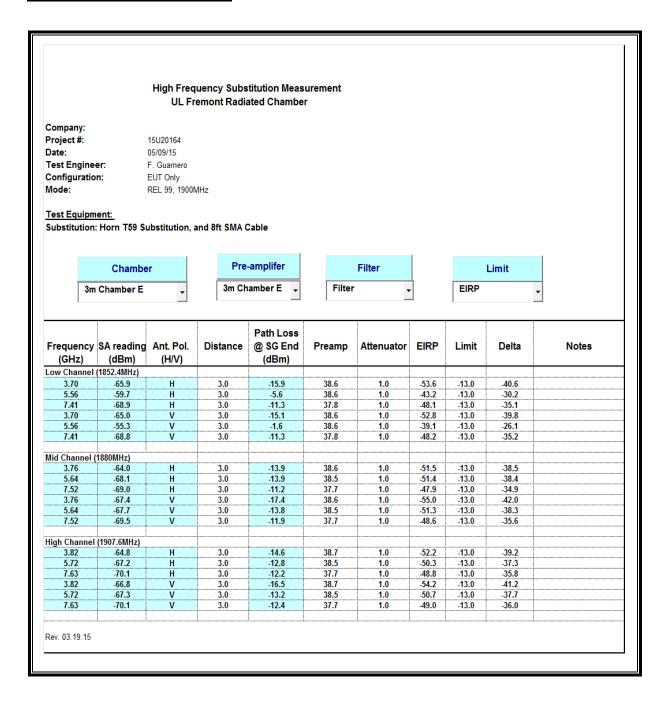
DATE: JULY 24, 2015

# UMTS HSDPA, 850MHz BAND 5



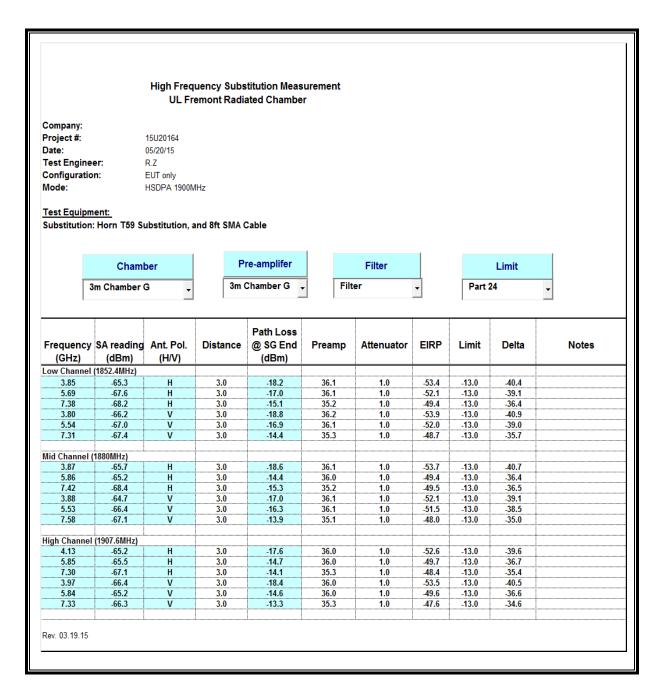
DATE: JULY 24, 2015

### **UMTS REL 99, 1900MHz BAND 2**



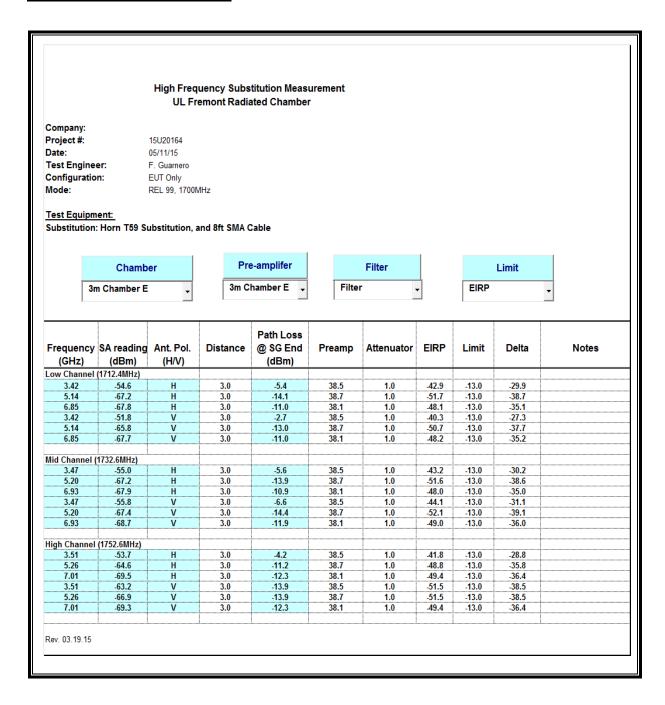
DATE: JULY 24, 2015

# UMTS HSDPA, 1900MHz BAND 2



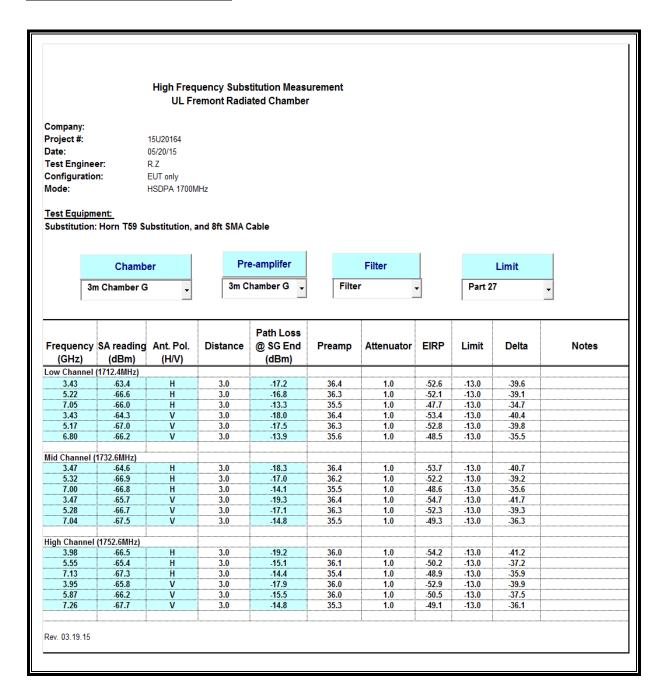
DATE: JULY 24, 2015

### **UMTS REL 99, 1700MHz BAND 4**



DATE: JULY 24, 2015

# UMTS HSDPA, 1700MHz BAND 4

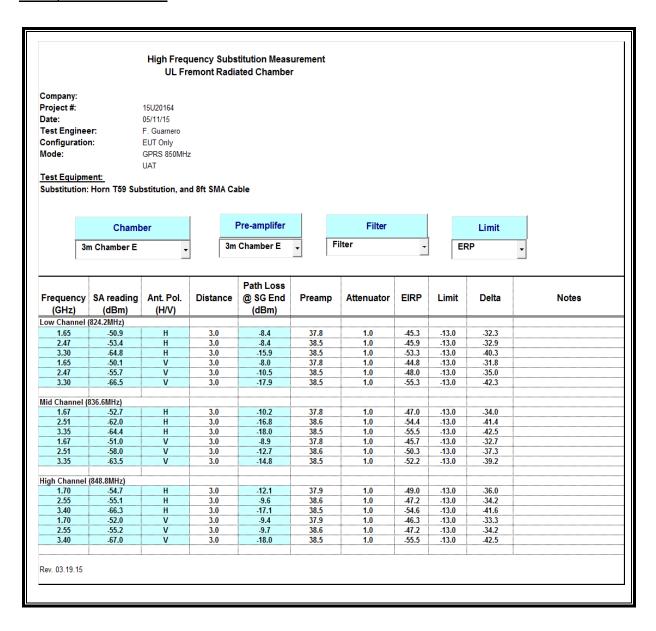


DATE: JULY 24, 2015

# FIELD STRENGTH OF SPURIOUS RADIATION, MODEL: A1633 (UAT)

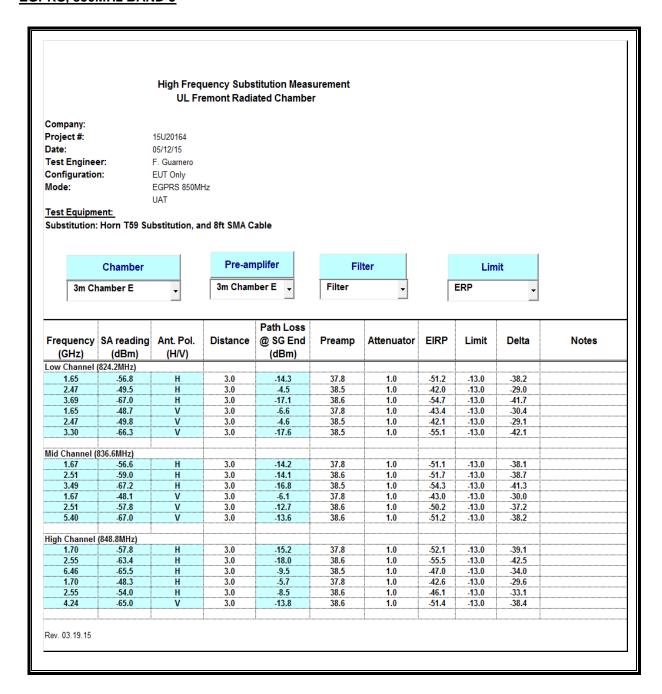
#### 10.8.1. **GSM**

### GPRS, 850MHz BAND 5



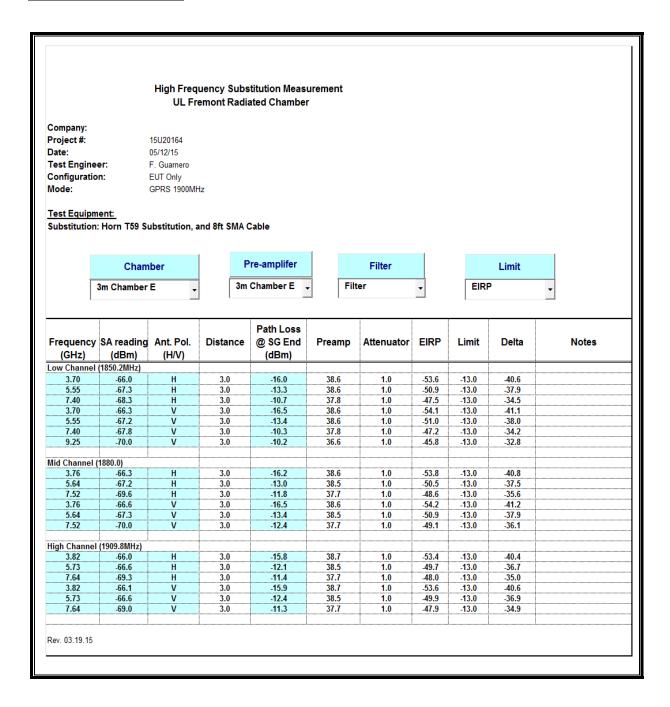
DATE: JULY 24, 2015

# EGPRS, 850MHz BAND 5



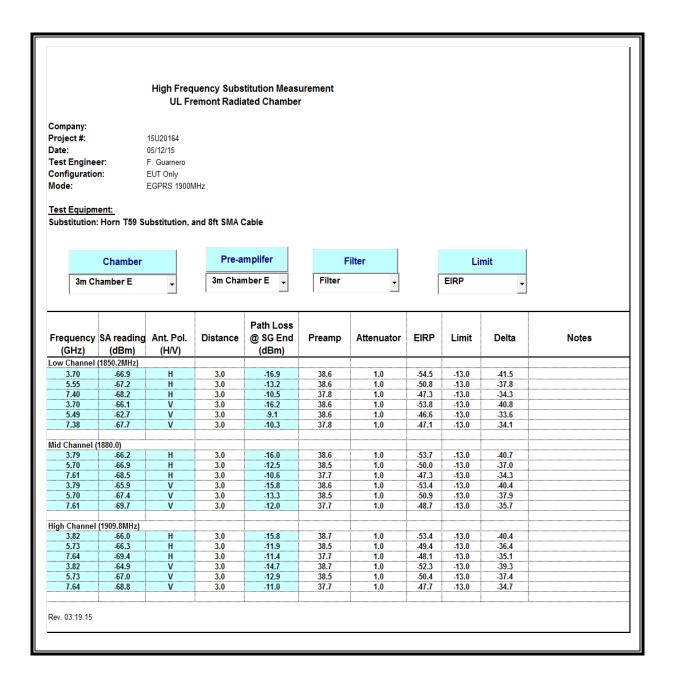
DATE: JULY 24, 2015

### GPRS, 1900MHz BAND 2



DATE: JULY 24, 2015

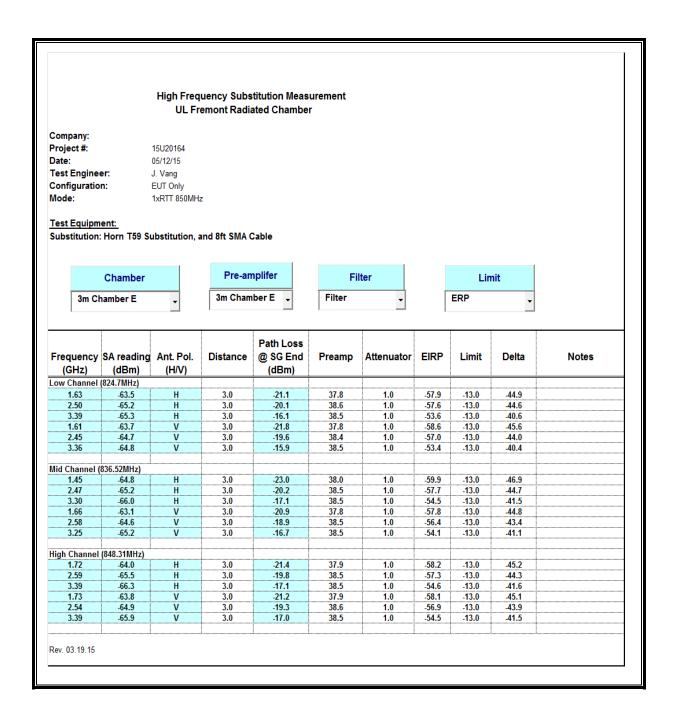
### EGPRS, 1900MHz BAND 2



DATE: JULY 24, 2015

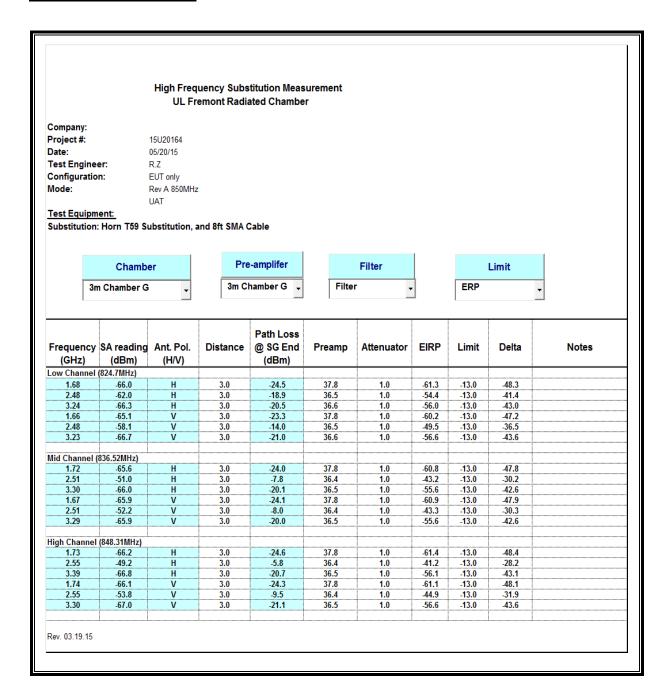
# *10.8.2.* CDMA2000

## CDMA2000 1xRTT, 850MHz BC0



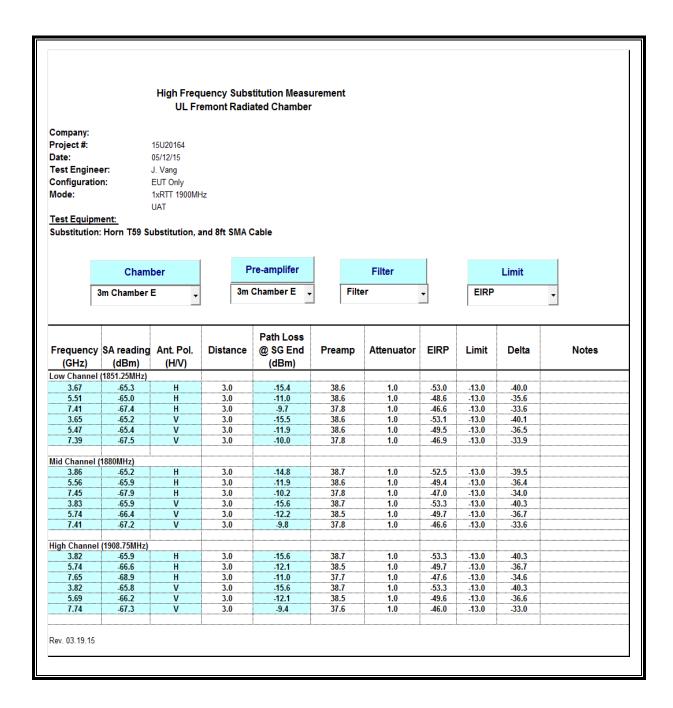
DATE: JULY 24, 2015

### EVDO-Rev A, 850MHz BC0



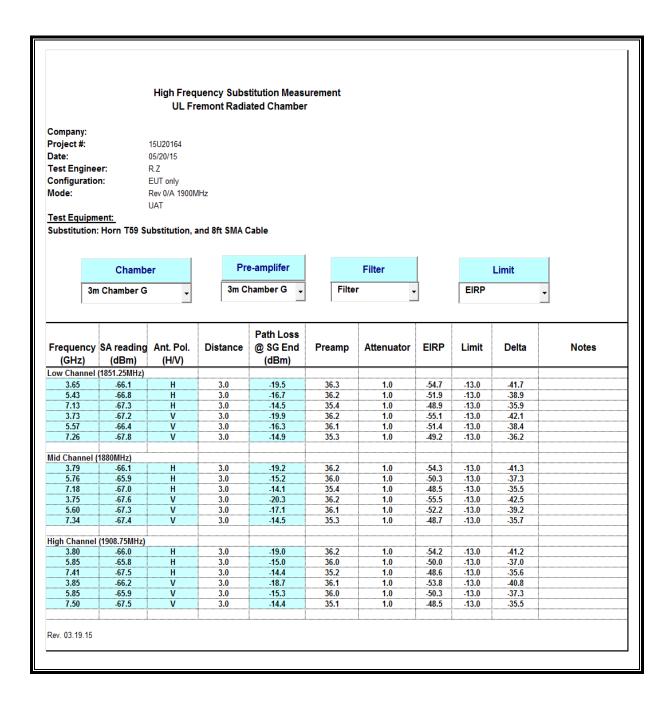
DATE: JULY 24, 2015

### CDMA2000 1xRTT, 1900MHz BC1



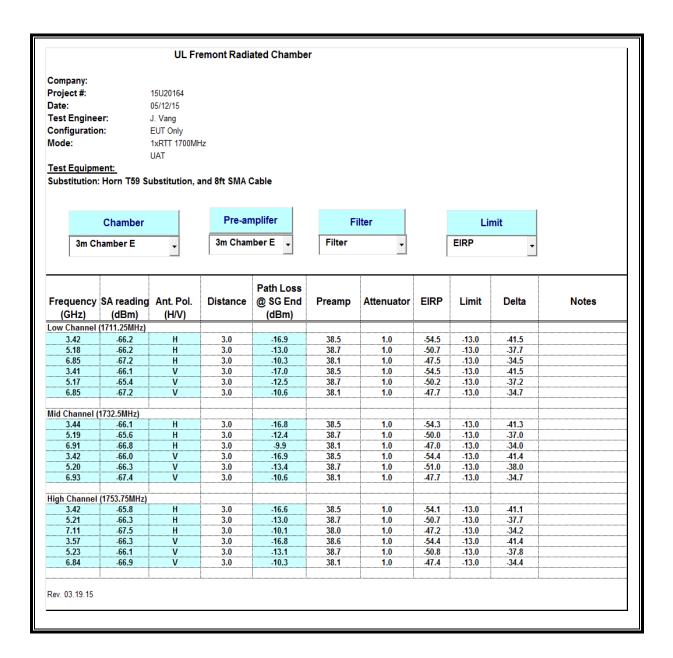
DATE: JULY 24, 2015

# EVDO-Rev A, 1900MHz BC1



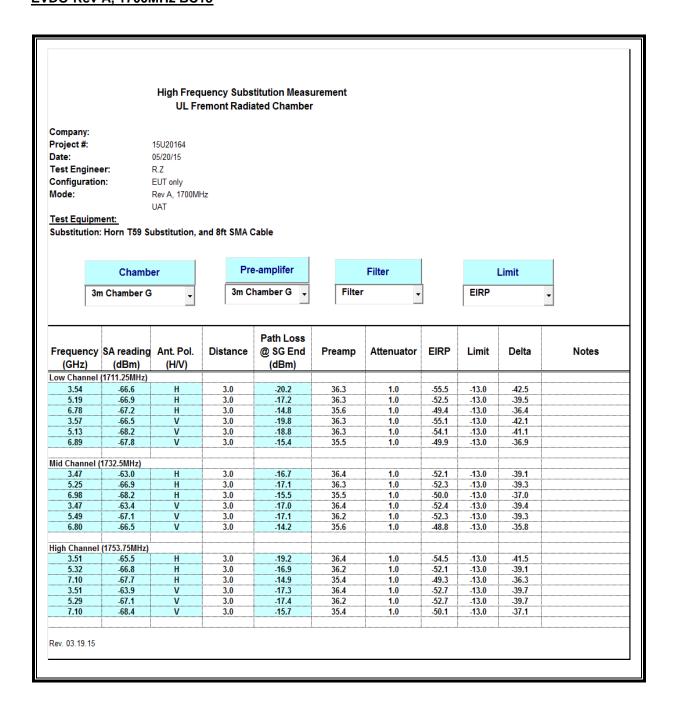
DATE: JULY 24, 2015

### CDMA2000 1xRTT, 1700MHz BC15



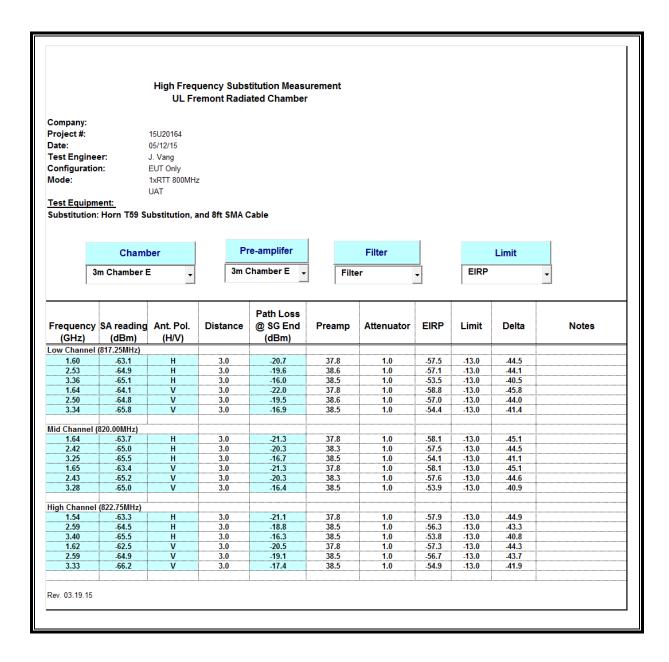
DATE: JULY 24, 2015

# EVDO-Rev A, 1700MHz BC15



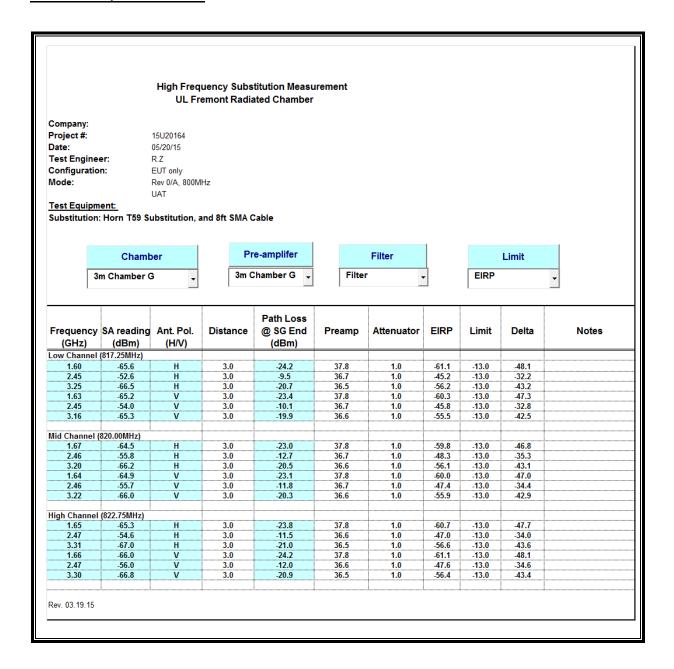
DATE: JULY 24, 2015

### CDMA2000 1xRTT, 800MHz BC10



DATE: JULY 24, 2015

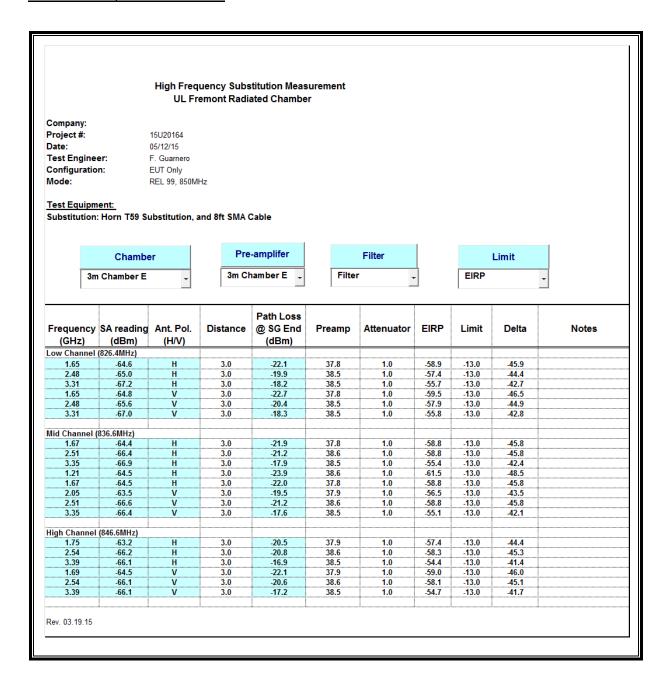
# EVDO-Rev A, 800MHz BC10



DATE: JULY 24, 2015

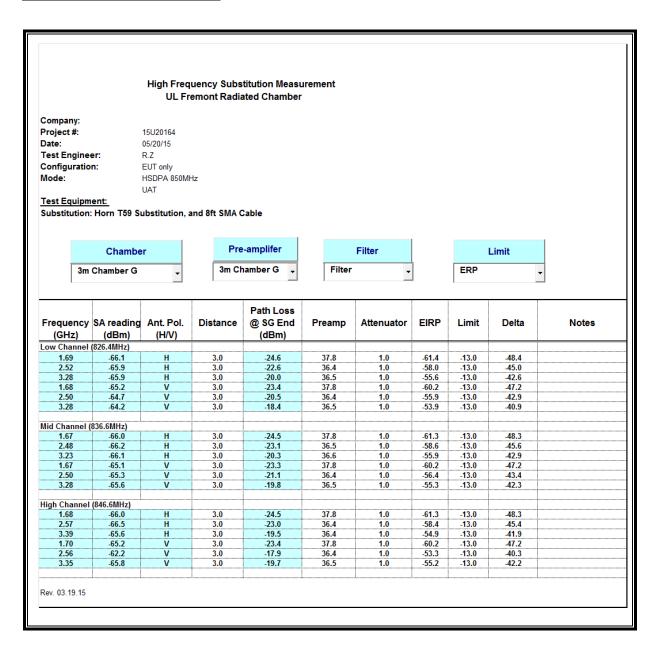
#### 10.8.3. **UMTS**

### UMTS REL 99, 850MHz BAND 5



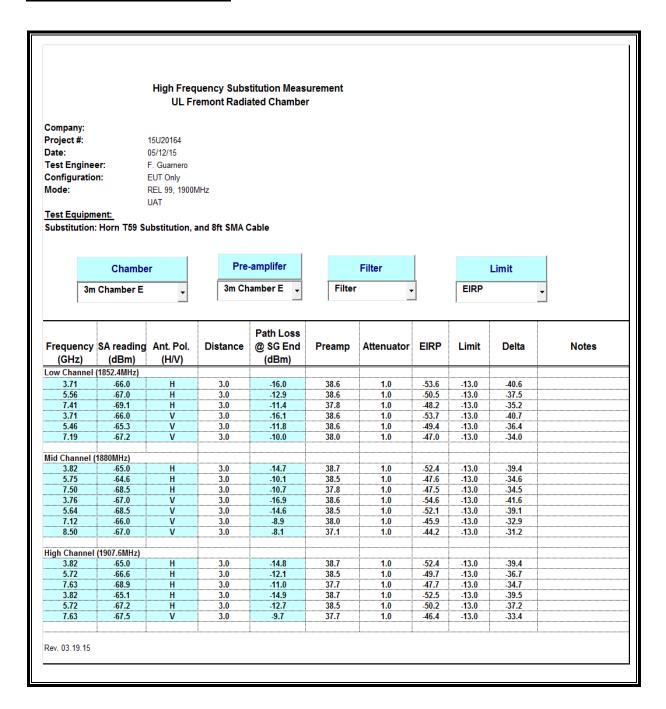
DATE: JULY 24, 2015

# UMTS HSDPA, 850MHz BAND 5



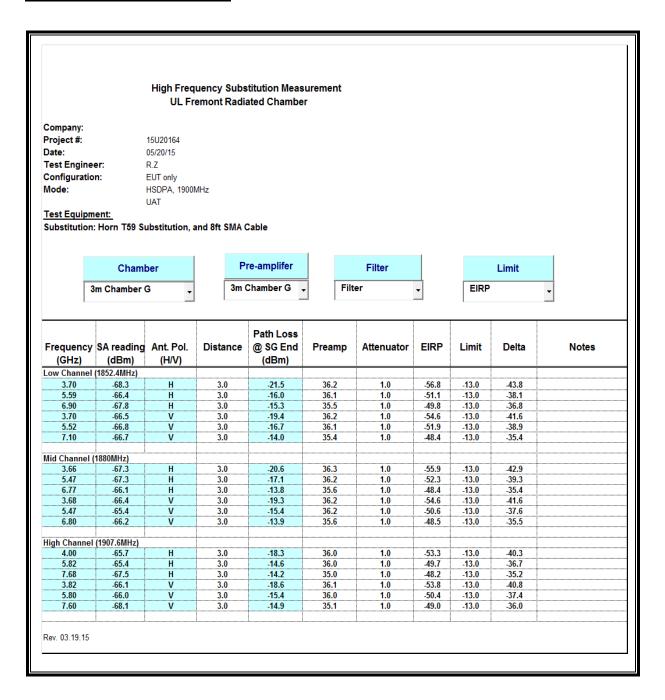
DATE: JULY 24, 2015

### **UMTS REL 99, 1900MHz BAND 2**



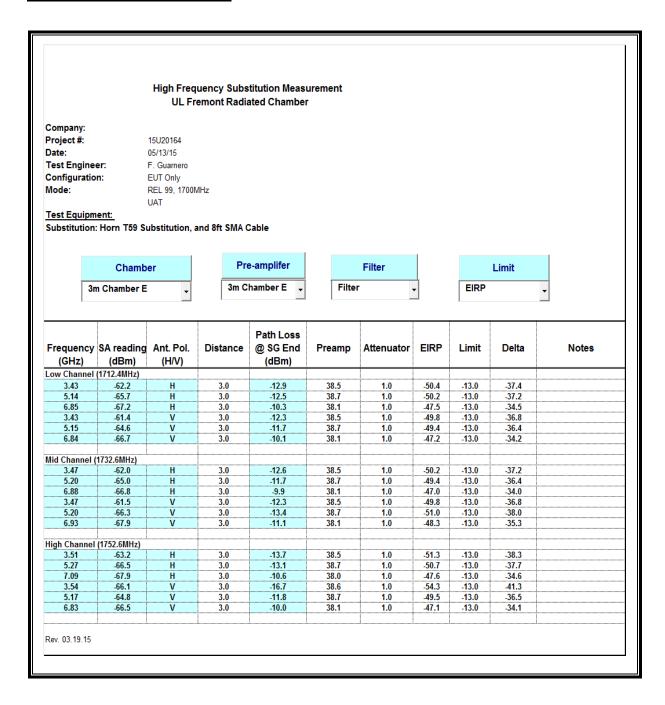
DATE: JULY 24, 2015

### UMTS HSDPA, 1900MHz BAND 2



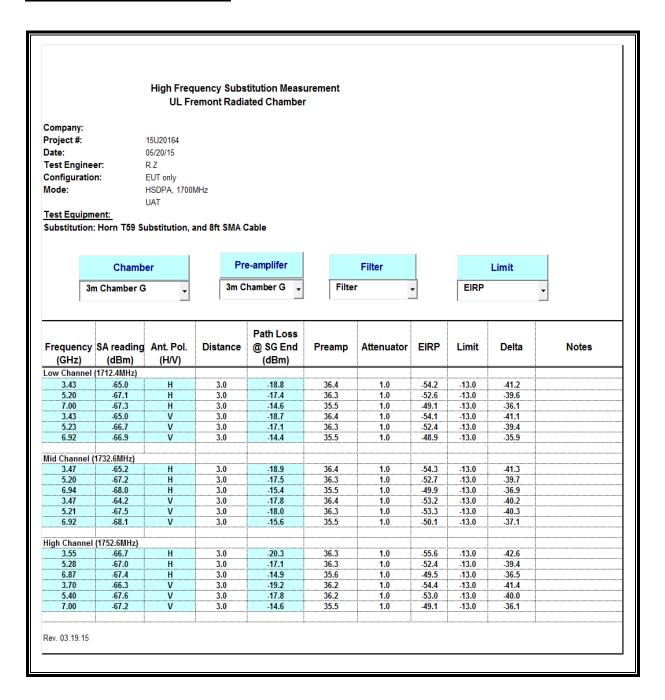
DATE: JULY 24, 2015

### **UMTS REL 99, 1700MHz BAND 4**



DATE: JULY 24, 2015

#### UMTS HSDPA, 1700MHz BAND 4

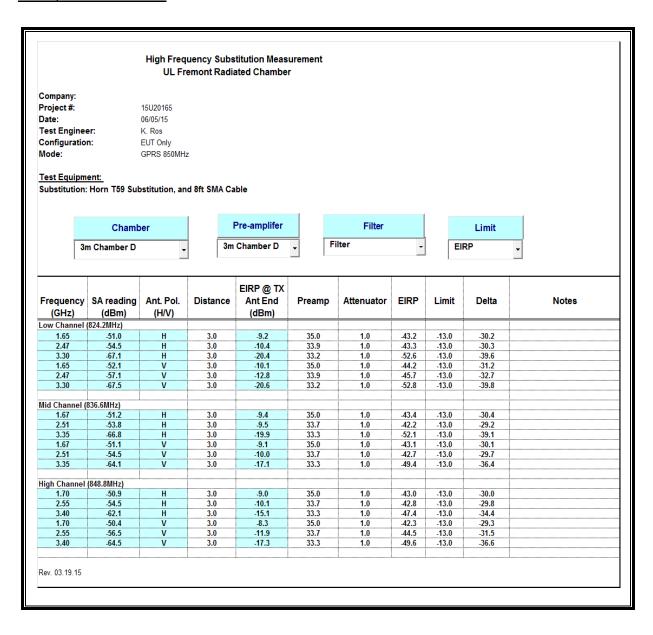


DATE: JULY 24, 2015

## FIELD STRENGTH OF SPURIOUS RADIATION, MODEL: A1688 (LAT)

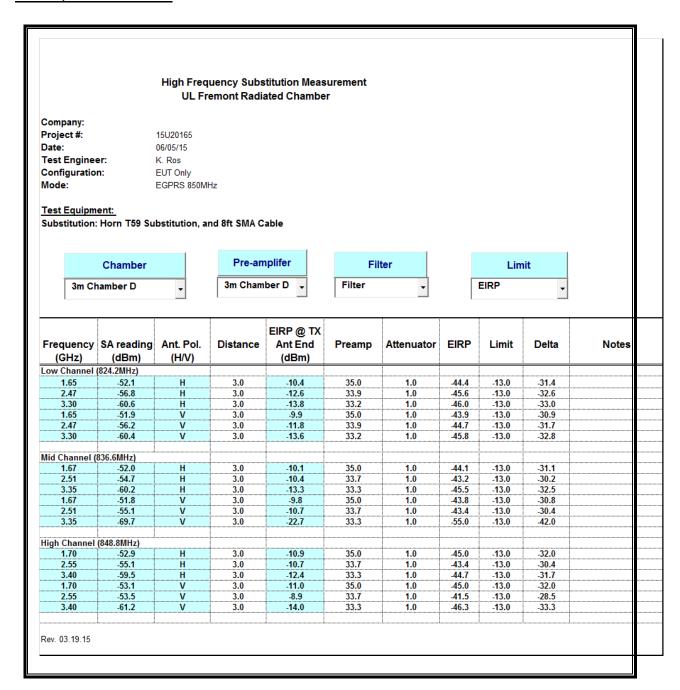
#### 10.9.1. **GSM**

#### **GPRS, 850MHz BAND 5**



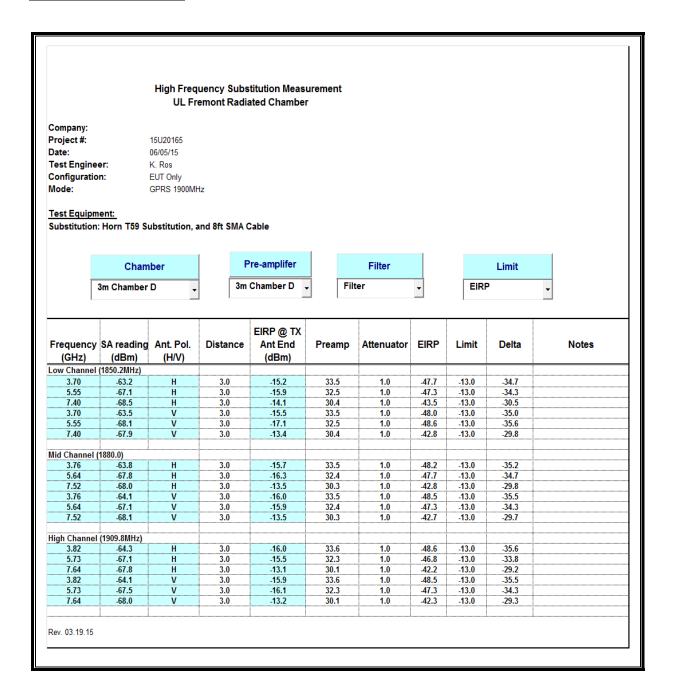
DATE: JULY 24, 2015

#### EGPRS, 850MHz BAND 5



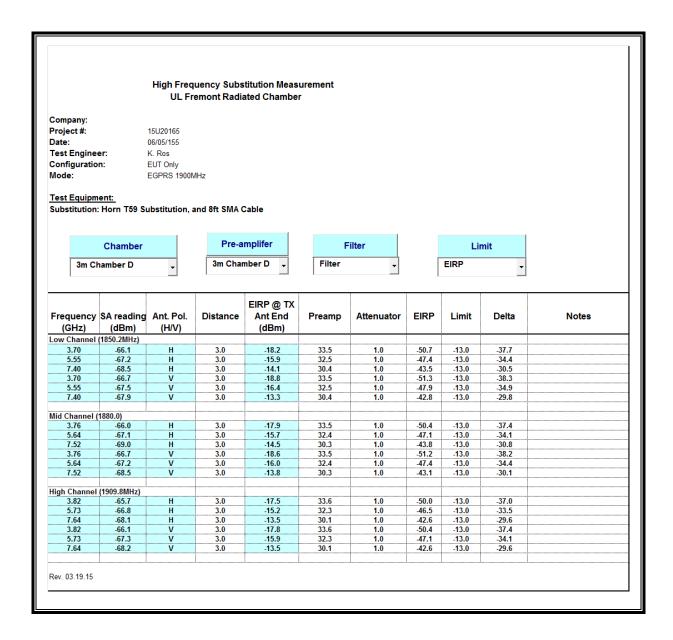
DATE: JULY 24, 2015

#### GPRS, 1900MHz BAND 2



DATE: JULY 24, 2015

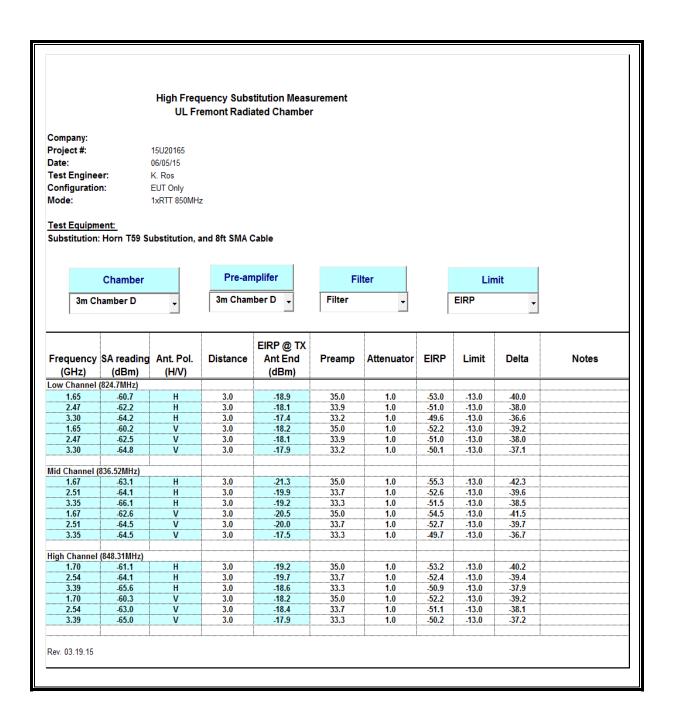
#### EGPRS, 1900MHz BAND 2



DATE: JULY 24, 2015

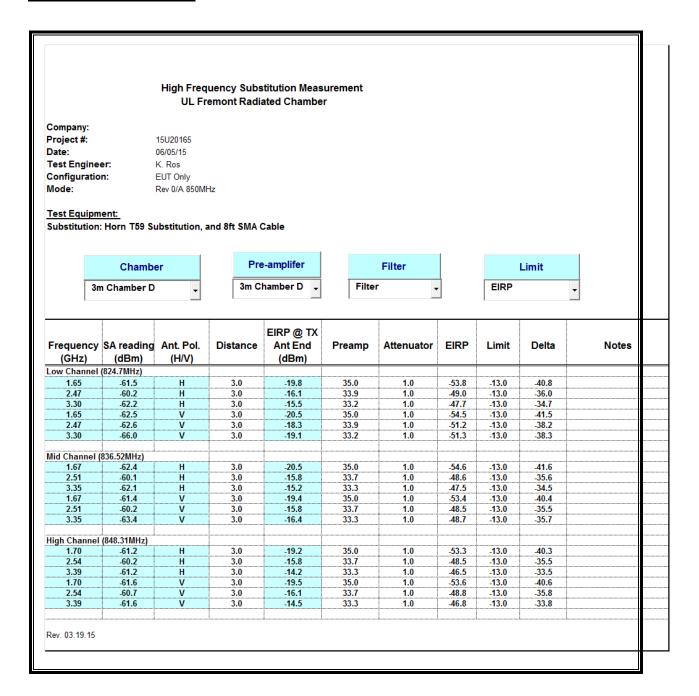
#### 10.9.2. **CDMA2000**

#### CDMA2000 1xRTT, 850MHz BC0



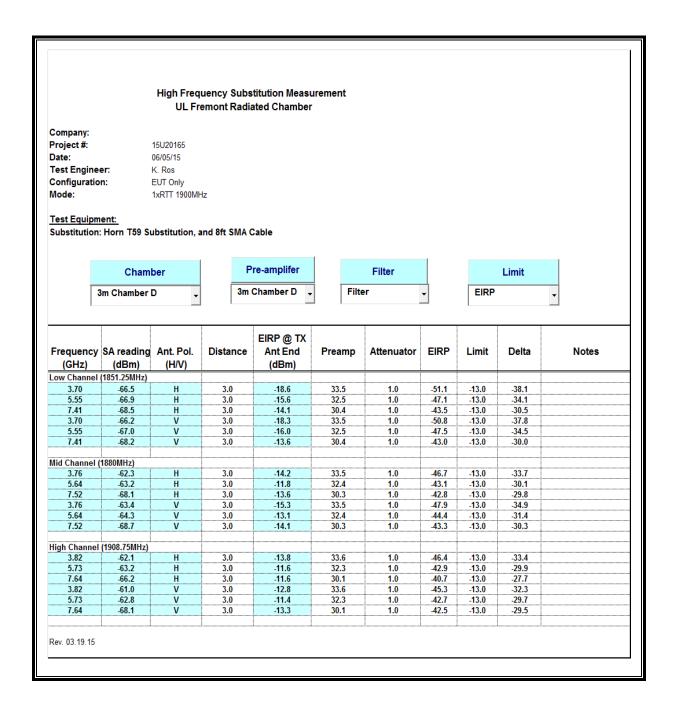
DATE: JULY 24, 2015

#### EVDO-Rev A, 850MHz BC0



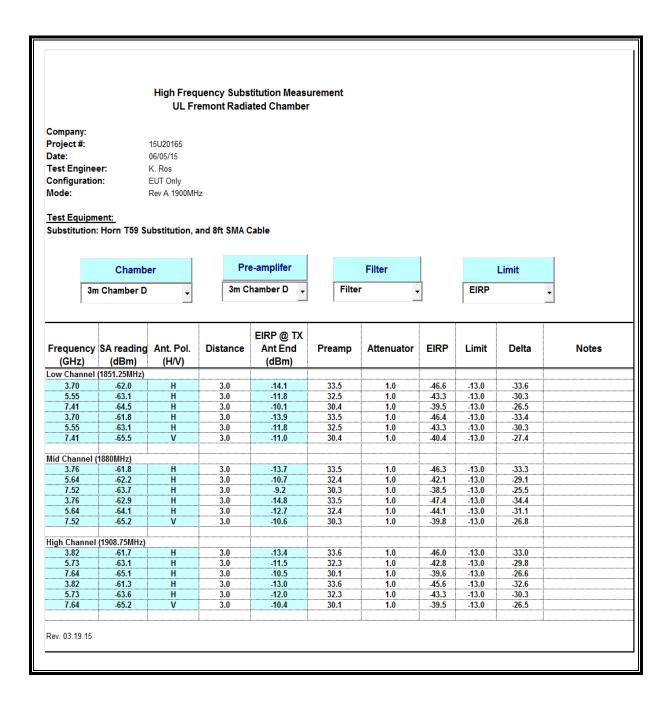
DATE: JULY 24, 2015

### CDMA2000 1xRTT, 1900MHz BC1



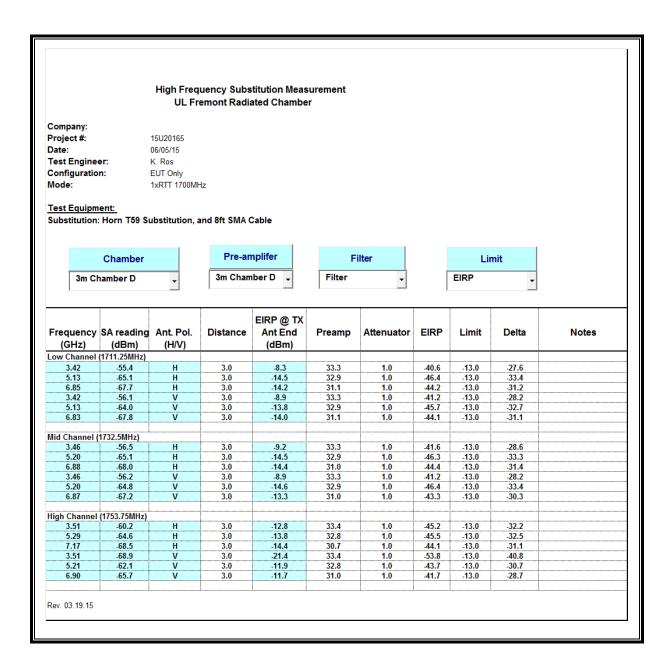
DATE: JULY 24, 2015

### EVDO-Rev A, 1900MHz BC1

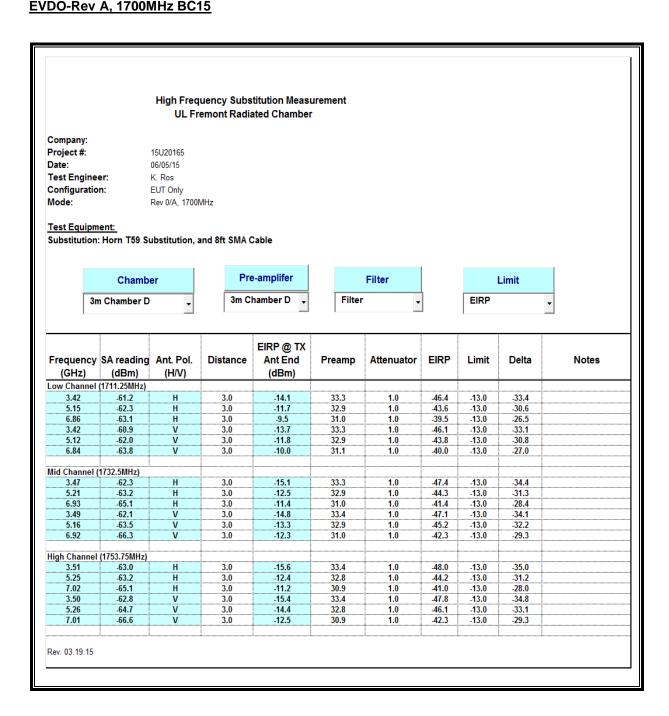


DATE: JULY 24, 2015

# CDMA2000 1xRTT, 1700MHz BC15

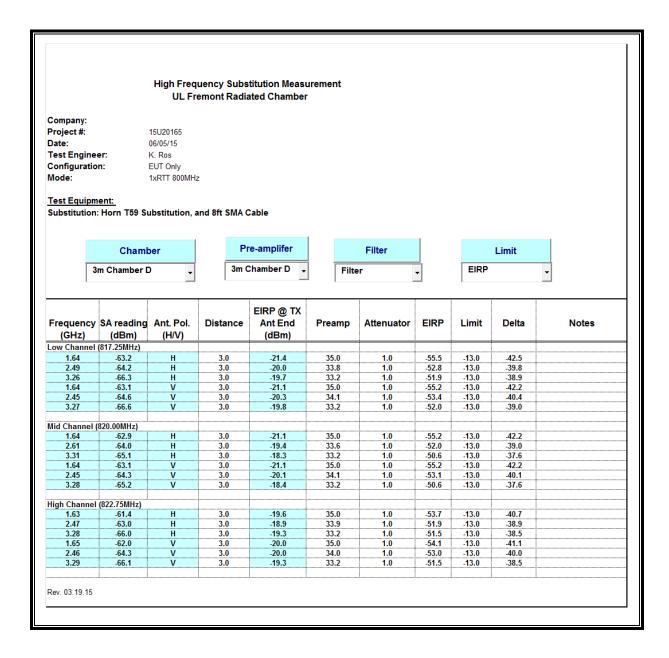


DATE: JULY 24, 2015



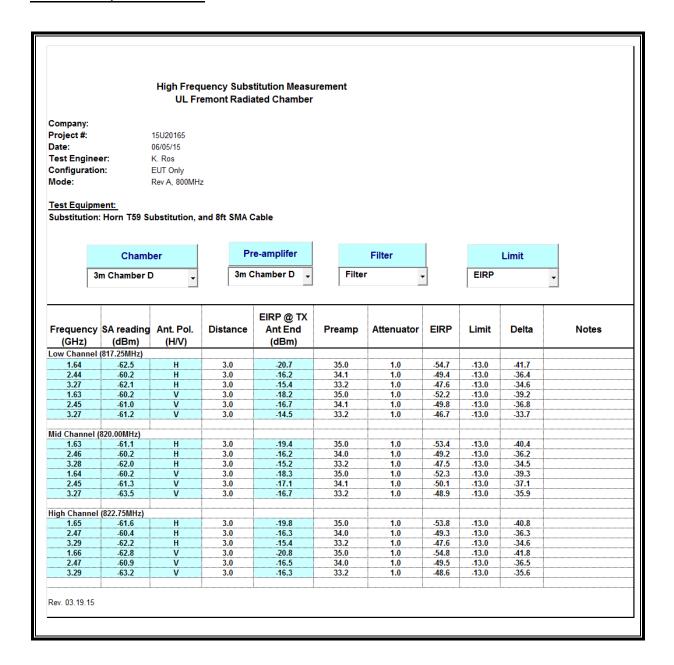
DATE: JULY 24, 2015

#### CDMA2000 1xRTT, 800MHz BC10



DATE: JULY 24, 2015

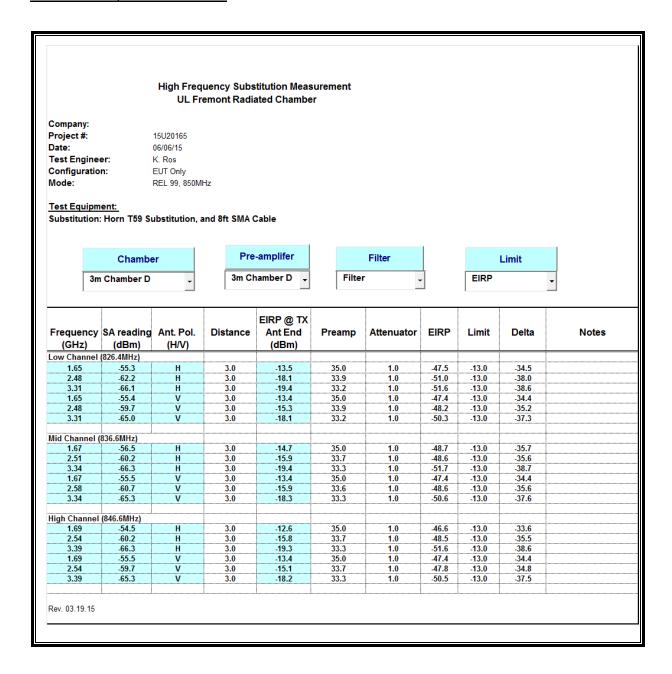
## EVDO-Rev A, 800MHz BC10



DATE: JULY 24, 2015

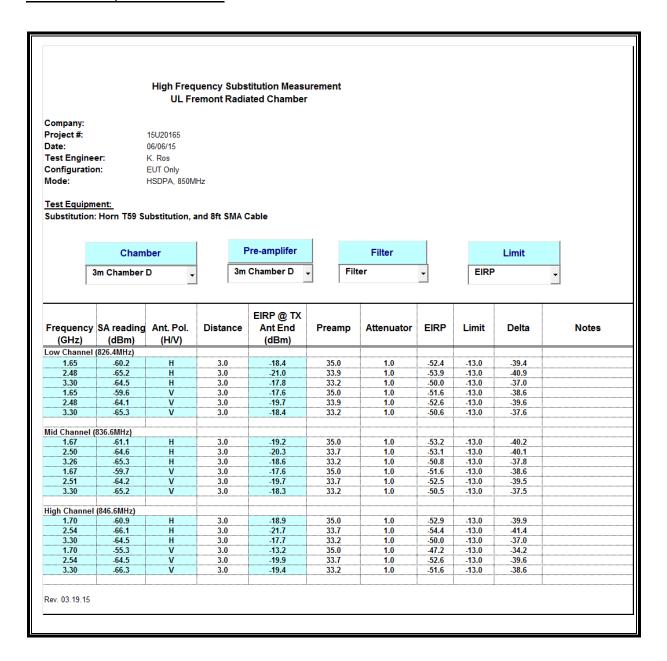
#### 10.9.3. **UMTS**

#### UMTS REL 99, 850MHz BAND 5



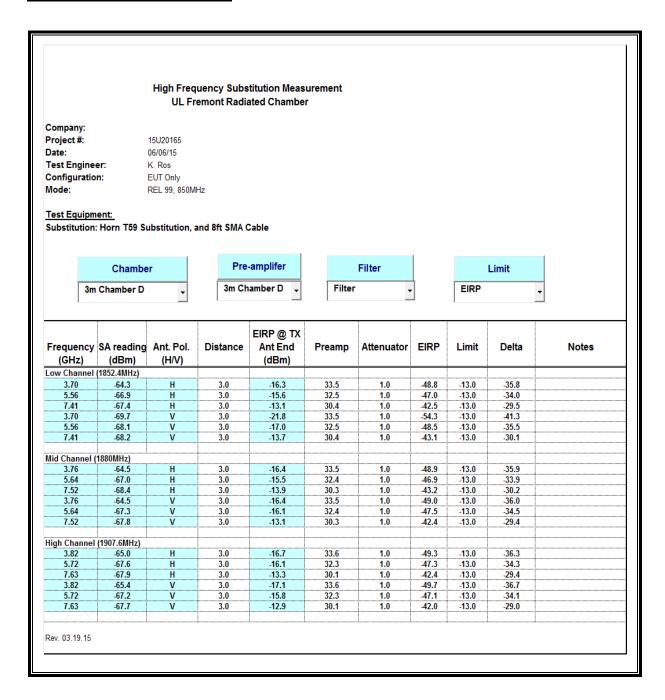
DATE: JULY 24, 2015

#### UMTS HSDPA, 850MHz BAND 5



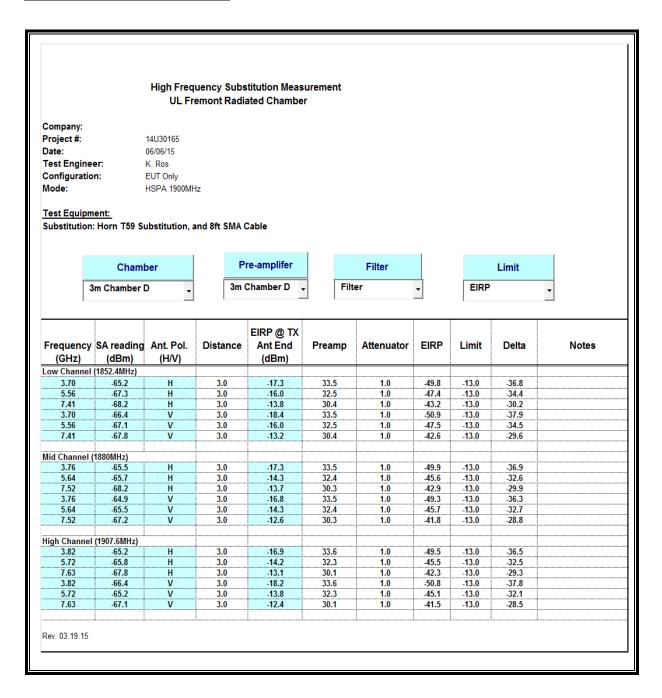
DATE: JULY 24, 2015

#### **UMTS REL 99, 1900MHz BAND 2**



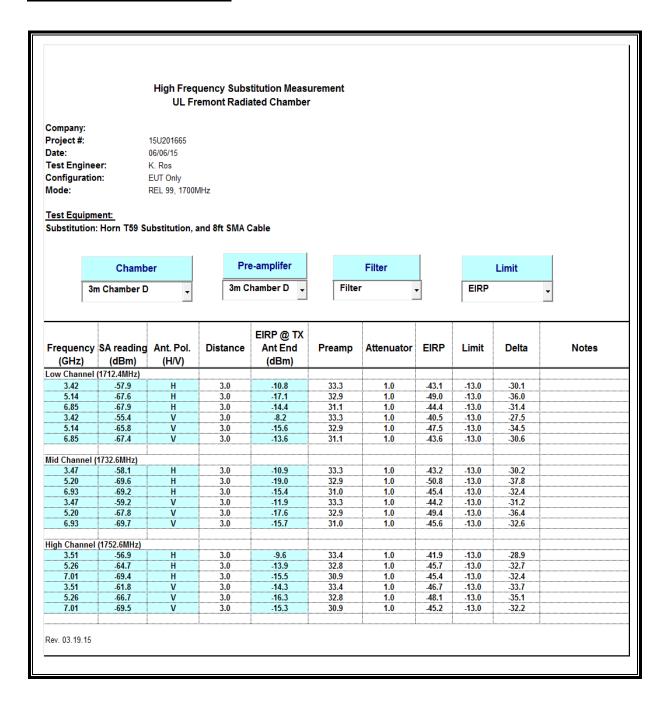
DATE: JULY 24, 2015

### UMTS HSDPA, 1900MHz BAND 2



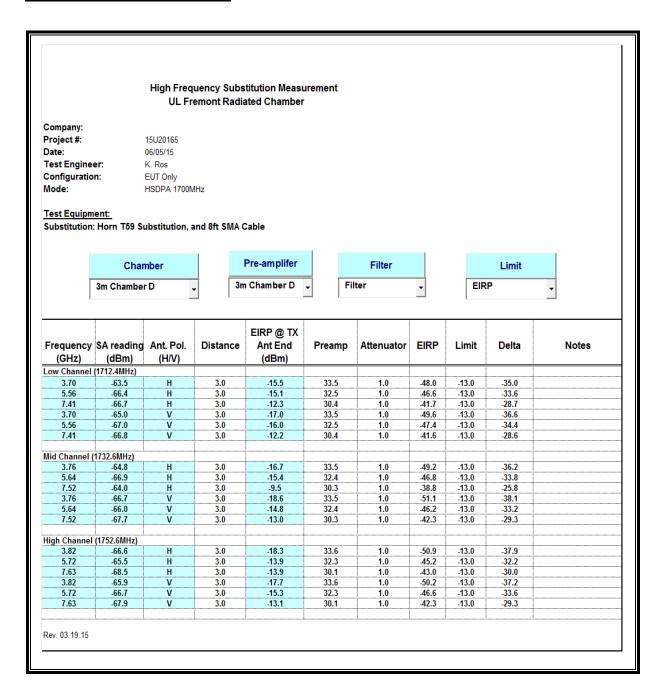
DATE: JULY 24, 2015

#### **UMTS REL 99, 1700MHz BAND 4**



DATE: JULY 24, 2015

#### UMTS HSDPA, 1700MHz BAND 4



DATE: JULY 24, 2015

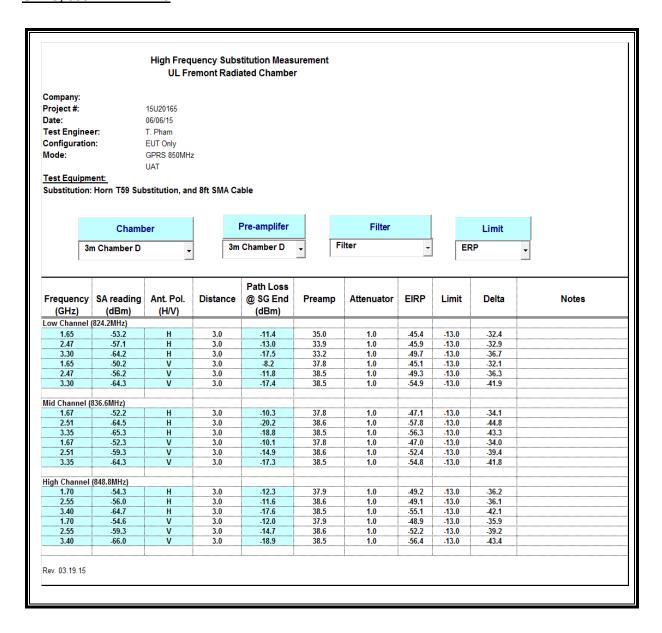
# FCC ID: BCG-E2946A FIELD STRENGTH OF SPURIOUS RADIATION, MODEL: A1688

DATE: JULY 24, 2015

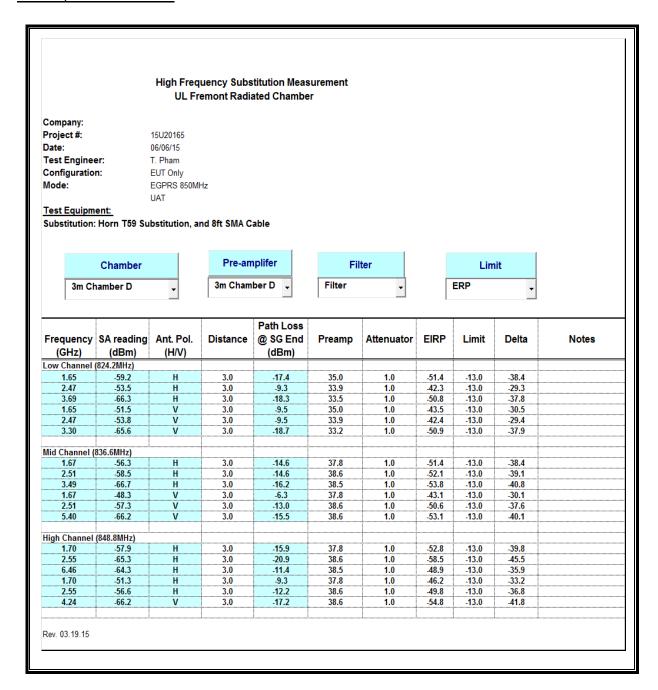
#### 10.10.1. **GSM**

#### **GPRS, 850MHz BAND 5**

(UAT)

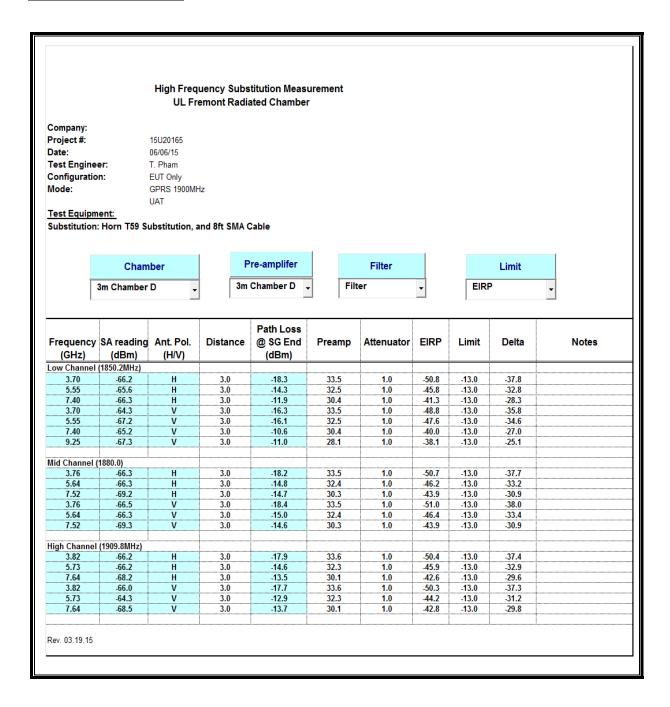


#### EGPRS, 850MHz BAND 5



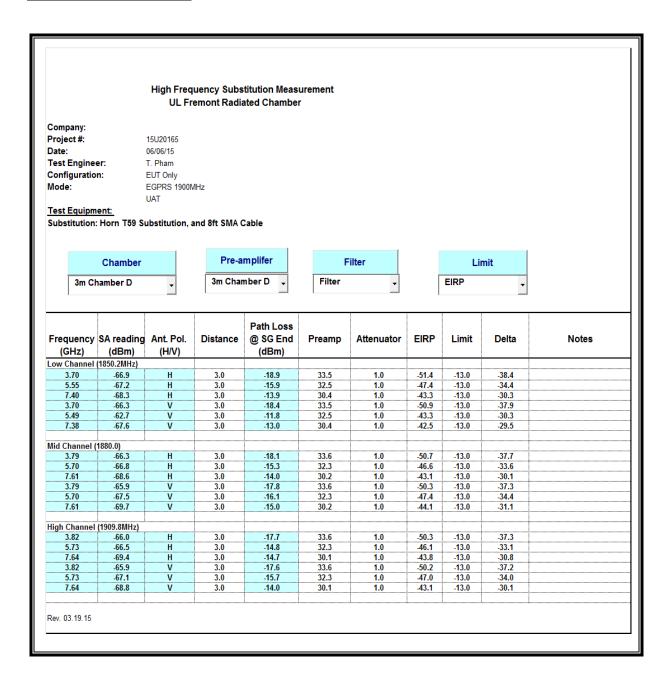
DATE: JULY 24, 2015

#### GPRS, 1900MHz BAND 2



DATE: JULY 24, 2015

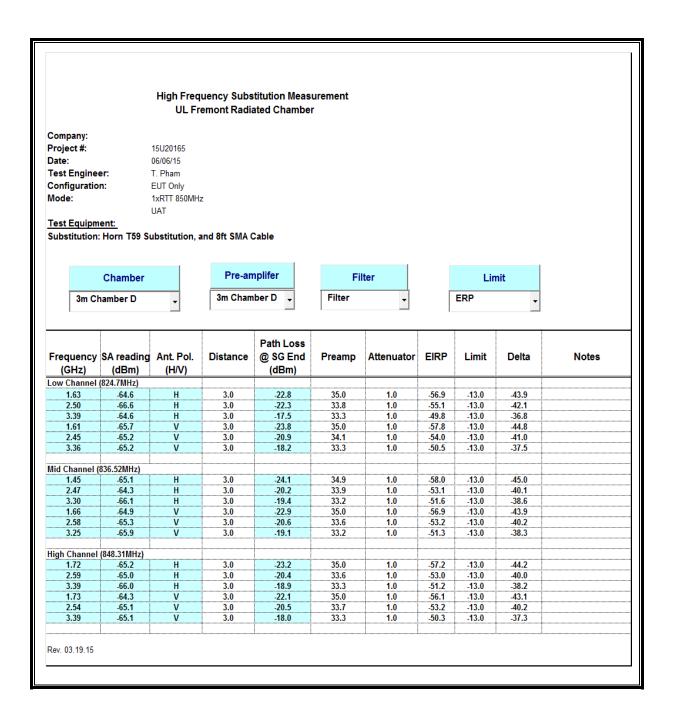
### EGPRS, 1900MHz BAND 2



DATE: JULY 24, 2015

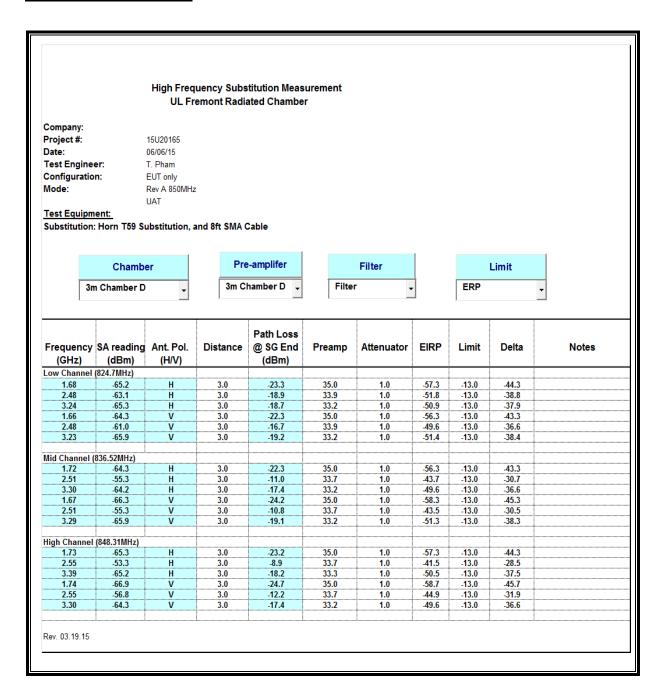
#### 10.10.2. **CDMA2000**

#### CDMA2000 1xRTT, 850MHz BC0



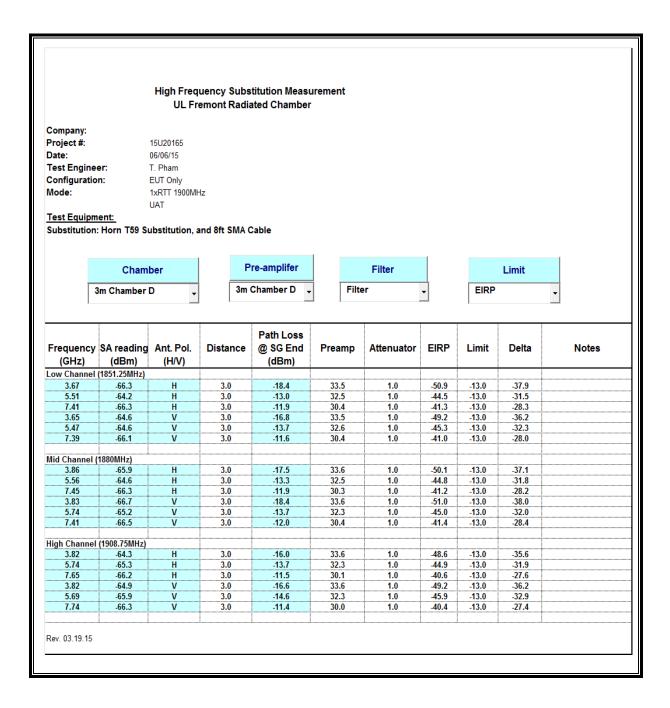
DATE: JULY 24, 2015

#### EVDO-Rev A, 850MHz BC0



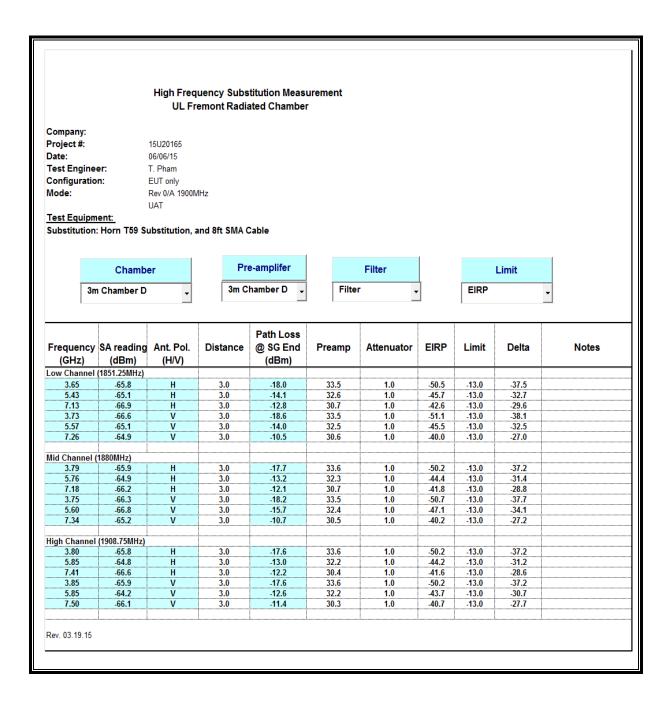
DATE: JULY 24, 2015

#### CDMA2000 1xRTT, 1900MHz BC1



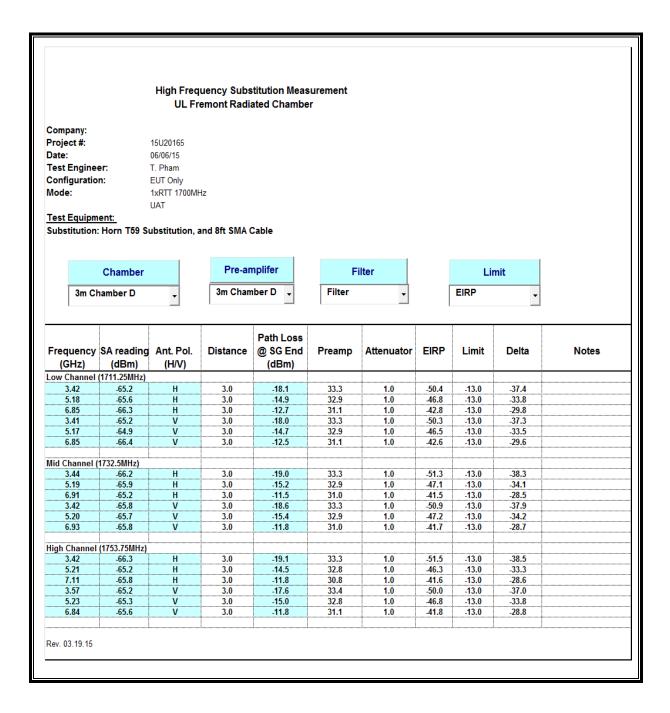
DATE: JULY 24, 2015

### EVDO-Rev A, 1900MHz BC1



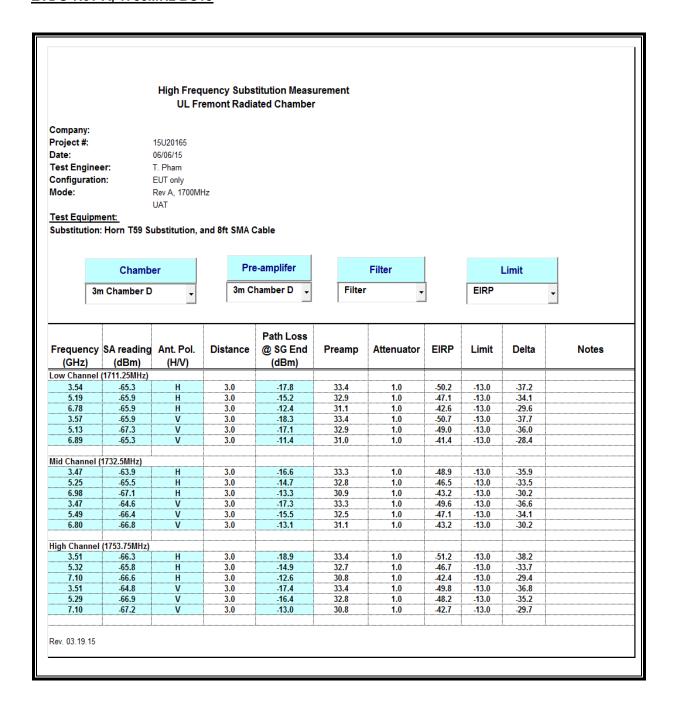
DATE: JULY 24, 2015

## CDMA2000 1xRTT, 1700MHz BC15



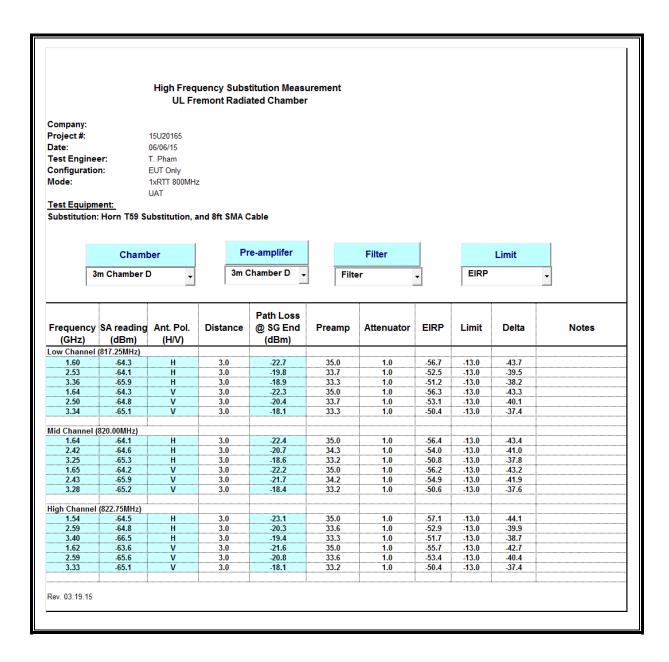
DATE: JULY 24, 2015

## EVDO-Rev A, 1700MHz BC15



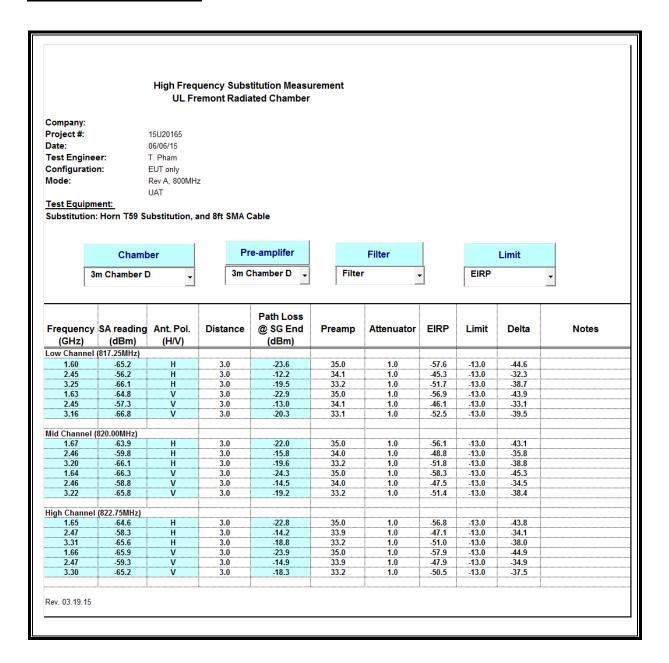
DATE: JULY 24, 2015

### CDMA2000 1xRTT, 800MHz BC10



DATE: JULY 24, 2015

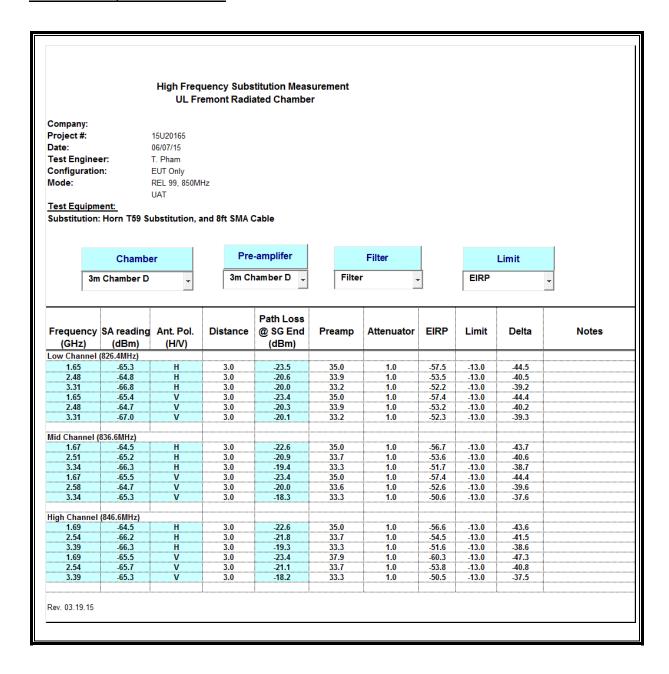
#### EVDO-Rev A, 800MHz BC10



DATE: JULY 24, 2015

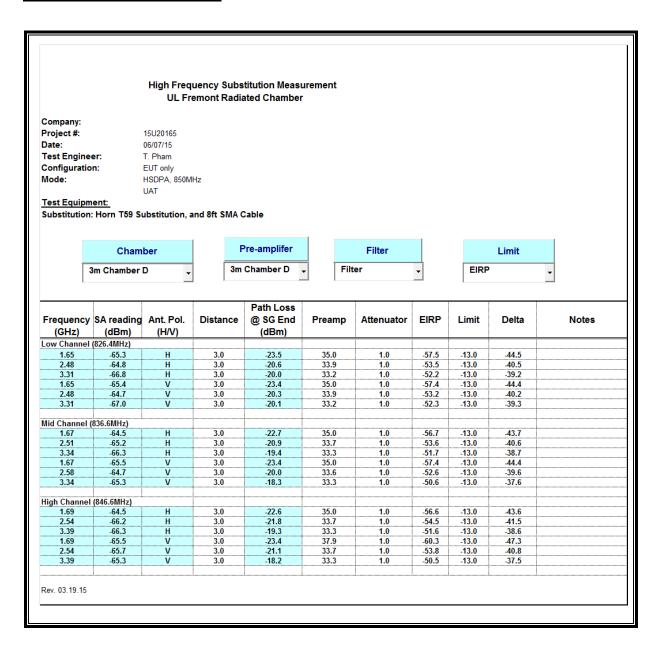
#### 10.10.3. **UMTS**

#### UMTS REL 99, 850MHz BAND 5



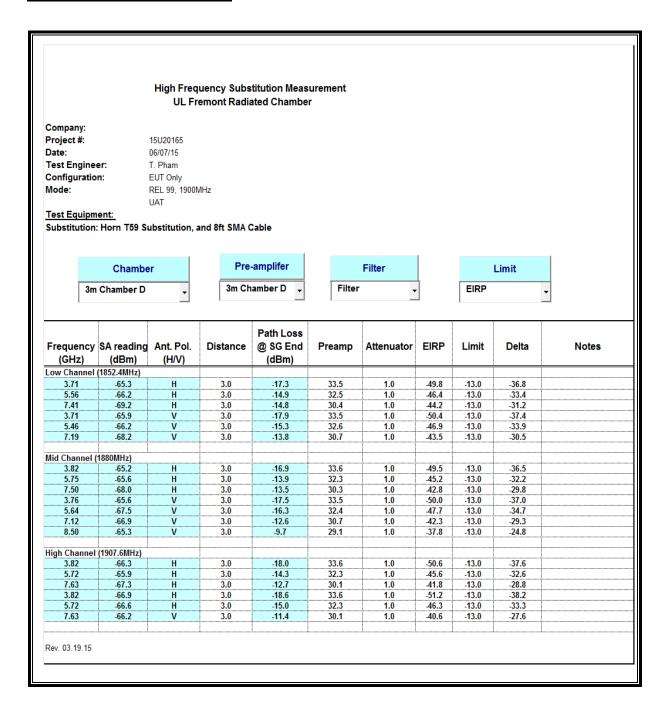
DATE: JULY 24, 2015

#### UMTS HSDPA, 850MHz BAND 5



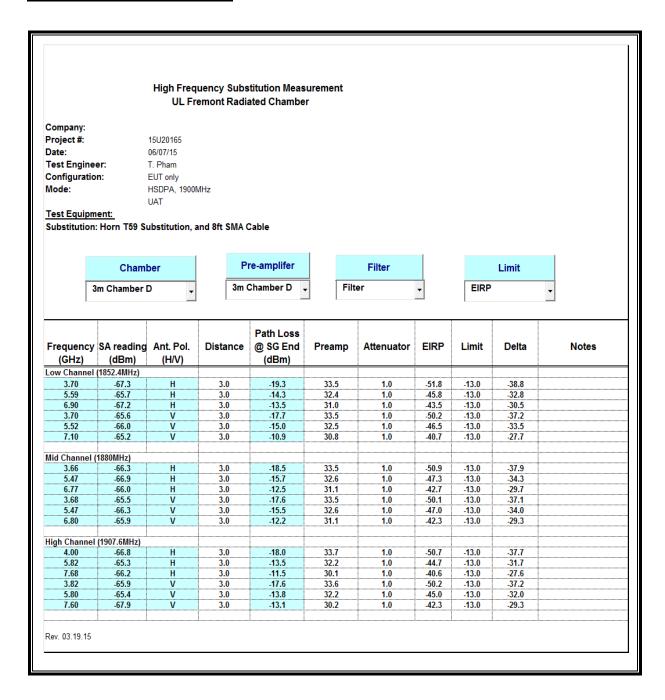
DATE: JULY 24, 2015

#### **UMTS REL 99, 1900MHz BAND 2**



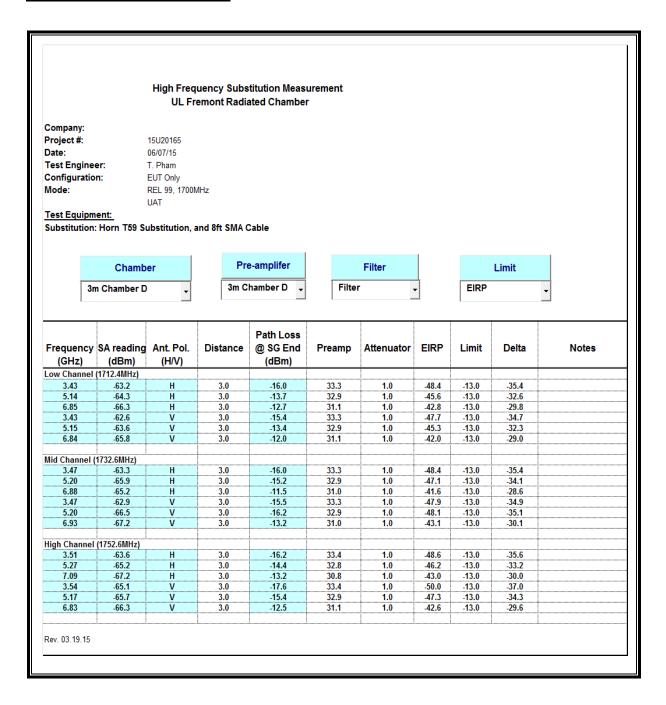
DATE: JULY 24, 2015

#### UMTS HSDPA, 1900MHz BAND 2



DATE: JULY 24, 2015

#### **UMTS REL 99, 1700MHz BAND 4**



DATE: JULY 24, 2015

### UMTS HSDPA, 1700MHz BAND 4

**High Frequency Substitution Measurement UL Fremont Radiated Chamber** 

Company:

Project #: 15U20165 Date: 06/07/15 Test Engineer: T. Pham EUT only Configuration: HSDPA, 1700MHz Mode: UAT

Test Equipment:

Substitution: Horn T59 Substitution, and 8ft SMA Cable

Frequency (GHz)	SA reading (dBm)	Ant. Pol. (H/V)	Distance	Path Loss @ SG End (dBm)	Preamp	Attenuator	EIRP	Limit	Delta	Notes
ow Channel	(1712.4MHz)									
3.43	-66.3	Н	3.0	-19.1	33.3	1.0	-51.5	-13.0	-38.5	
5.20	-65.6	Н	3.0	-14.9	32.9	1.0	-46.8	-13.0	-33.8	
7.00	-67.0	Н	3.0	-13.1	30.9	1.0	-43.0	-13.0	-30.0	
3.43	-66.1	V	3.0	-18.9	33.3	1.0	-51.2	-13.0	-38.2	
5.23	-65.6	V	3.0	-15.3	32.8	1.0	-47.1	-13.0	-34.1	
6.92	-65.4	V	3.0	-11.4	31.0	1.0	-41.3	-13.0	-28.3	
Mid Channel (	1732.6MHz)									
3.47	-66.3	Н	3.0	-19.0	33.3	1.0	-51.4	-13.0	-38.4	
5.20	-66.6	Н	3.0	-15.9	32.9	1.0	-47.8	-13.0	-34.8	
6.94	-67.2	Н	3.0	-13.4	31.0	1.0	-43.4	-13.0	-30.4	
3.47	-65.6	V	3.0	-18.3	33.3	1.0	-50.6	-13.0	-37.6	
5.21	-66.3	V	3.0	-16.0	32.9	1.0	-47.9	-13.0	-34.9	
6.92	-67.6	V	3.0	-13.6	31.0	1.0	-43.6	-13.0	-30.6	
High Channel	(1752.6MHz)									
3.55	-65.8	Н	3.0	-18.3	33.4	1.0	-50.7	-13.0	-37.7	
5.28	-66.6	Н	3.0	-15.8	32.8	1.0	-47.6	-13.0	-34.6	
6.87	-67.3	Н	3.0	-13.7	31.0	1.0	-43.7	-13.0	-30.7	
3.70	-65.2	V	3.0	-17.2	33.5	1.0	-49.7	-13.0	-36.7	
5.40	-66.7	V	3.0	-15.9	32.6	1.0	-47.6	-13.0	-34.6	
7.00	-65.3	V	3.0	-11.2	30.9	1.0	-41.1	-13.0	-28.1	

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