



47 CFR PART 22 SUBPART H & 24 SUBPART E

# TEST REPORT

of

## GSM Wireless Phone

Model Name: ZTE WP623  
Brand Name: ZTE中兴  
Report No.: SZ08010037E02  
FCC ID: Q78-ZTEWP623

*prepared for*

## ZTE CORPORATION

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## TABLE OF CONTENTS

<b>1.</b>	<b>TEST CERTIFICATION</b> .....	<b>4</b>
<b>2.</b>	<b>GENERAL INFORMATION</b> .....	<b>5</b>
<b>2.1</b>	<b>EUT Description</b> .....	<b>5</b>
<b>2.2</b>	<b>Test Standards and Results</b> .....	<b>7</b>
<b>2.3</b>	<b>Facilities and Accreditations</b> .....	<b>8</b>
2.3.1	Facilities .....	8
2.3.2	Test Environment Conditions.....	8
<b>3.</b>	<b>47 CFR PART 2, PART 22H REQUIREMENTS</b> .....	<b>9</b>
<b>3.1</b>	<b>Frequencies</b> .....	<b>9</b>
3.1.1	Requirement .....	9
3.1.2	Test Description .....	9
3.1.3	Test Result .....	10
<b>3.2</b>	<b>Conducted RF Output Power</b> .....	<b>13</b>
3.2.1	Requirement .....	13
3.2.2	Test Description .....	13
3.2.3	Test Result .....	13
<b>3.3</b>	<b>20dB Occupied Bandwidth</b> .....	<b>17</b>
3.3.1	Definition .....	17
3.3.2	Test Description .....	17
3.3.3	Test Verdict.....	17
<b>3.4</b>	<b>Frequency Stability</b> .....	<b>21</b>
3.4.1	Requirement .....	21
3.4.2	Test Description .....	21
3.4.3	Test Verdict.....	21
<b>3.5</b>	<b>Conducted Out of Band Emissions</b> .....	<b>23</b>
3.5.1	Requirement .....	23
3.5.2	Test Description .....	23
3.5.3	Test Result .....	23
<b>3.6</b>	<b>Band Edge</b> .....	<b>30</b>
3.6.1	Requirement .....	30



3.6.2	Test Description .....	30
3.6.3	Test Result .....	30
<b>3.7</b>	<b>Transmitter Radiated Power (EIRP/ERP) .....</b>	<b>33</b>
3.7.1	Requirement .....	33
3.7.2	Test Description .....	33
3.7.3	Test Result .....	34
<b>3.8</b>	<b>Radiated Out of Band Emissions .....</b>	<b>38</b>
3.8.1	Requirement .....	38
3.8.2	Test Description .....	38
3.8.3	Test Result .....	38



# 1. TEST CERTIFICATION

Equipment under Test: GSM Wireless Phone

Brand Name: ZTE中兴

Model Name: ZTE WP623

FCC ID: Q78-ZTEWP623

Applicant: ZTE CORPORATION

ZTE Plaza, Keji Road South, Hi-Tech Industrial Park, Nanshan District, Shenzhen, Guangdong, 518057, P.R.China

Manufacturer: ZTE CORPORATION

ZTE Plaza, Keji Road South, Hi-Tech Industrial Park, Nanshan District, Shenzhen, Guangdong, 518057, P.R.China

Test Standards: 47 CFR Part 2  
47 CFR Part 22 Subpart H  
47 CFR Part 24 Subpart E

Test Date(s): January 24, 2008 –January 30, 2008

Test Result: PASS

### \* We Hereby Certify That:

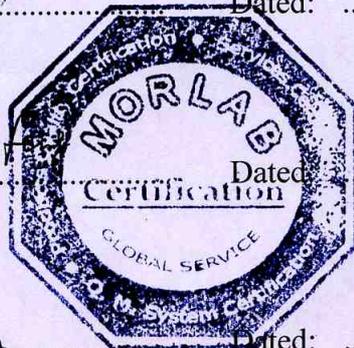
The equipment under test was tested by Shenzhen Electronic Product Quality Testing Center Morlab Laboratory. The test data, data evaluation, test procedures and equipment configurations shown in this report were made in accordance with the requirement of related FCC rules.

The test results of this report only apply for the tested sample equipment identified above. The test report shall be invalid without all the signatures of the test engineer, the reviewer and the approver.

Tested by: Wei Yanquan Dated: 2008.02.03  
Wei Yanquan

Reviewed by: Yao Xiaofeng Dated: 2008.02.03  
Yao Xiaofeng

Approved by: Zeng Dexin Dated: 2008.02.03  
Zeng Dexin



## 2. GENERAL INFORMATION

### 2.1 EUT Description

EUT Type.....: GSM Wireless Phone  
Model Name .....: ZTE WP623  
Serial No.....: (n.a, marked #1 by test site)  
IMEI .....: 352085020753096  
Hardware Version .....: f13C  
Software Version .....: AM\_MEX\_WP623AXV1.0.0B01  
Frequency Range .....: GSM 850MHz:  
Tx: 824.20 - 848.80MHz (at intervals of 200kHz);  
Rx: 869.20 - 893.80MHz (at intervals of 200kHz)  
GSM 1900MHz:  
Tx: 1850.20 - 1909.80MHz (at intervals of 200kHz);  
Rx: 1930.20 - 1989.80MHz (at intervals of 200kHz)  
Modulation Type.....: GMSK  
Emission Designators .....: 300KGXW  
Power Supply.....: Battery  
Model Name: Ni3612T30P3S534416  
Brand name: ZTE中兴  
Capacitance: 1200mAh  
Rated voltage: 3.6V  
Manufacturer: ZTE CORPORATION  
Manufacturer Address: ZTE Plaza, Keji Road South, Hi-Tech  
Industrial Park, Nanshan District, Shenzhen, Guangdong, 518057,  
P.R.China  
Ancillary Equipments.....: AC Adapter (Charger for Battery)  
Model Name: STC-A22O50C35-C  
Brand Name: ZTE  
Serial No.: (n.a. marked #1 by test site)  
Rated Input: ~ 100-240V, 0.2A,50/60Hz  
Rated Output: = 5V, 700mA  
Manufacturer: Shenzhen Ruide Electronic Industrial Co. Ltd.  
Manufacturer Address: 2nd floor, Block 2, MinQi Scientific Zone,  
HongHuaLing, XiLi, Nanshan District, Shenzhen, China.  
Wire Length: 150cm

*Note 1:* The transmitter (Tx) frequency arrangement of the Cellular 850MHz band used by the EUT can be represented with the formula  $F(n)=824.2+0.2*(n-128)$ ,  $128 \leq n \leq 251$ ; the lowest,

middle, highest channel numbers (ARFCHs) used and tested in this report are separately 128 (824.2MHz), 190 (836.6MHz) and 251 (848.8MHz).

*Note 2:* The transmitter (Tx) frequency arrangement of the PCS 1900MHz band used by the EUT can be represented with the formula  $F(n)=1850.2+0.2*(n-512)$ ,  $512 \leq n \leq 810$ ; the lowest, middle and highest channel numbers (ARFCHs) used and tested in this report are separately 512 (1850.2MHz), 661 (1880.0MHz) and 810 (1909.8MHz).

*Note 3:* For a more detailed description, please refer to Specification or User's Manual supplied by the applicant and/or manufacturer.

## 2.2 Test Standards and Results

The objective of the report is to perform testing according to 47 CFR Part 2, Part 22 and Part 24 for the EUT FCC ID Certification:

No.	Identity	Document Title
1	47 CFR Part 2 (10-1-05 Edition)	Frequency Allocations and Radio Treaty Matters; General Rules and Regulations
2	47 CFR Part 22 (10-1-05 Edition)	Public Mobile Services
3	47 CFR Part 24 (10-1-05 Edition)	Personal Communications Services

Test detailed items/section required by FCC rules and results are as below:

No.	Section	Description	Result
1	2.106 22.905 24.229	Frequencies	PASS
2	2.1046	Conducted RF Output Power	PASS
3	2.1049	20dB Occupied Bandwidth	PASS
4	2.1055 22.355 24.235	Frequency Stability	PASS
5	2.1051 2.1057 22.917 24.238	Conducted Out of Band Emissions	PASS
6	2.1051 2.1057 22.917 24.238	Band Edge	PASS
7	22.913 24.232	Transmitter Radiated Power (EIPR/ERP)	PASS
8	2.1053 2.1057 22.917 24.238	Radiated Out of Band Emissions	PASS

## 2.3 Facilities and Accreditations

### 2.3.1 Facilities

Shenzhen Electronic Product Quality Testing Center Morlab Laboratory is a testing organization accredited by China National Accreditation Service for Conformity Assessment (CNAS) according to ISO/IEC 17025. The accreditation certificate number is L1659.

All measurement facilities used to collect the measurement data are located at Electronic Testing Building, Shahe Road, Xili, Nanshan District, Shenzhen 518055 CHINA. The test site is constructed in conformance with the requirements of ANSI C63.7, ANSI C63.4 and CISPR Publication 22; the FCC registration number is 741109.

### 2.3.2 Test Environment Conditions

During the measurement, the environmental conditions were within the listed ranges:

Temperature (°C):	20 - 25
Relative Humidity (%):	40 - 60
Atmospheric Pressure (kPa):	96

### 3. 47 CFR PART 2, PART 22H REQUIREMENTS

#### 3.1 Frequencies

##### 3.1.1 Requirement

According to FCC section 22.905, the frequency blocks assignment for the cellular radiotelephone service is listed as below:

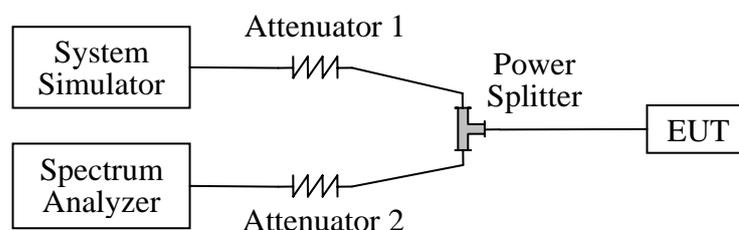
- (a) Channel Block A:  
 Mobile 824 - 835MHz, Base 869 - 880MHz;  
 Mobile 845 - 846.5MHz, Base 890 - 891.5MHz
- (b) Channel Block B:  
 Mobile 835 - 845 MHz, Base 880 - 890MHz;  
 Mobile 846.5 - 849 MHz, Base 891.5 - 894MHz

According to FCC section 24.229, the frequencies available in the Broadband PCS services are listed as below, in accordance with the frequency allocations table of FCC section 2.106.

- (a) The following frequency blocks are available for assignment on an MTA basis:  
 Block A: 1850 - 1865MHz paired with 1930 - 1945MHz;  
 Block B: 1870 - 1885MHz paired with 1950 - 1965MHz.
- (b) The following frequency blocks are available for assignment on a BTA basis:  
 Block C: 1895 - 1910 MHz paired with 1975 - 1990MHz;  
 Block D: 1865 - 1870 MHz paired with 1945 - 1950MHz;  
 Block E: 1885 - 1890 MHz paired with 1965 - 1970MHz;  
 Block F: 1890 - 1895 MHz paired with 1970 - 1975MHz.

##### 3.1.2 Test Description

1. Test Setup:



The EUT, which is powered by the Battery, is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna

terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum output power i.e. Power Control Level (PCL) = 5 and Power Class = 4. A call is established between the EUT and the SS.

## 2. Equipments List:

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
System Simulator	Agilent	E5515C	GB43130131	2007.06	1year
Spectrum Analyzer	Agilent	E7405A	US44210471	2007.07	1year
Power Splitter	Weinschel	1506A	NW521	(n.a.)	(n.a.)
Attenuator 1	Resnet	20dB	(n.a.)	(n.a.)	(n.a.)
Attenuator 2	Resnet	3dB	(n.a.)	(n.a.)	(n.a.)

### 3.1.3 Test Result

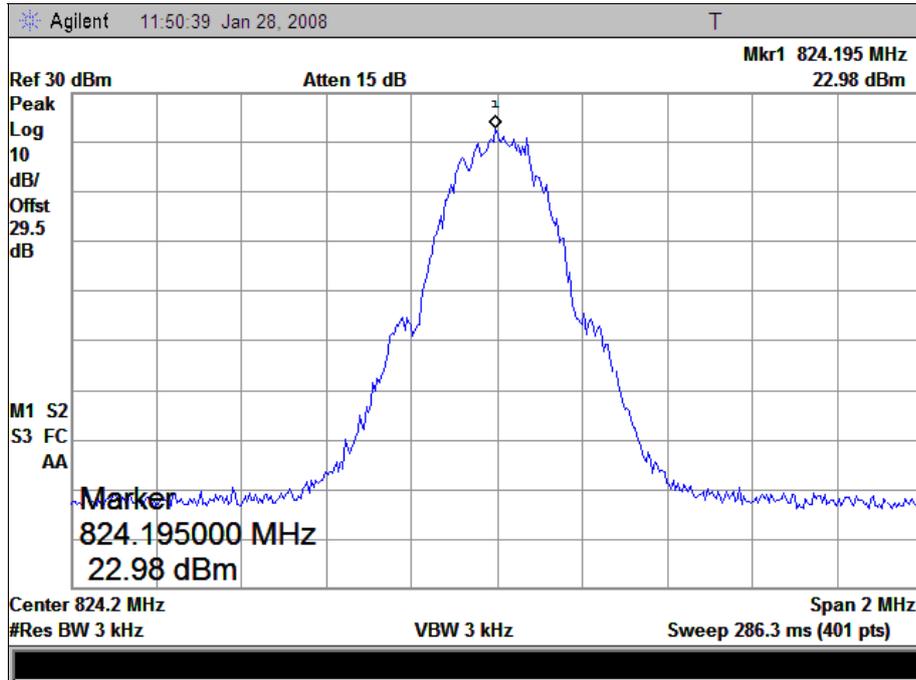
The Tx frequency arrangement of the Cellular 850MHz band employed by the EUT should be from 824.2MHz to 848.8MHz (the corresponding frequency block is from 824MHz to 849MHz), and Tx frequency arrangement of the PCS 1900MHz band employed by the EUT should be from 1850.2MHz to 1909.8MHz (the corresponding frequency block is from 1850MHz to 1910MHz). Here the lowest and highest channels are tested to verify the EUT's using the frequency block required.

#### 1. Test Verdict:

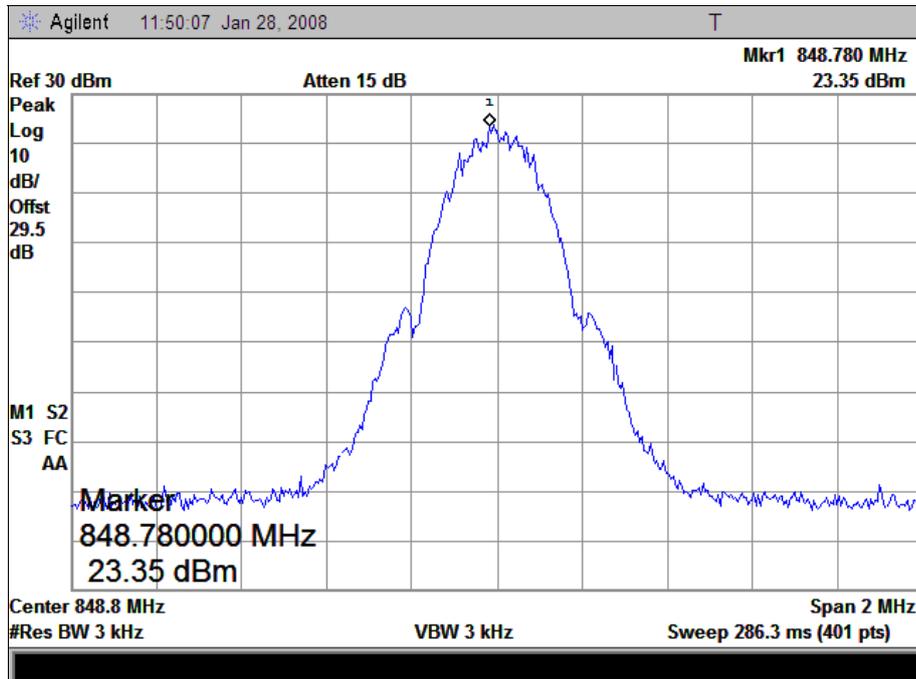
The required frequency block is employed legally, the verdict is PASS.

Band	Channel	Frequency (MHz)	Measured Carrier (dBm)	Refer to Plot
GSM 850MHz	128	824.2	22.98	Plot A
	251	848.8	23.35	Plot B
GSM 1900MHz	512	1850.2	20.28	Plot C
	810	1909.8	21.51	Plot D

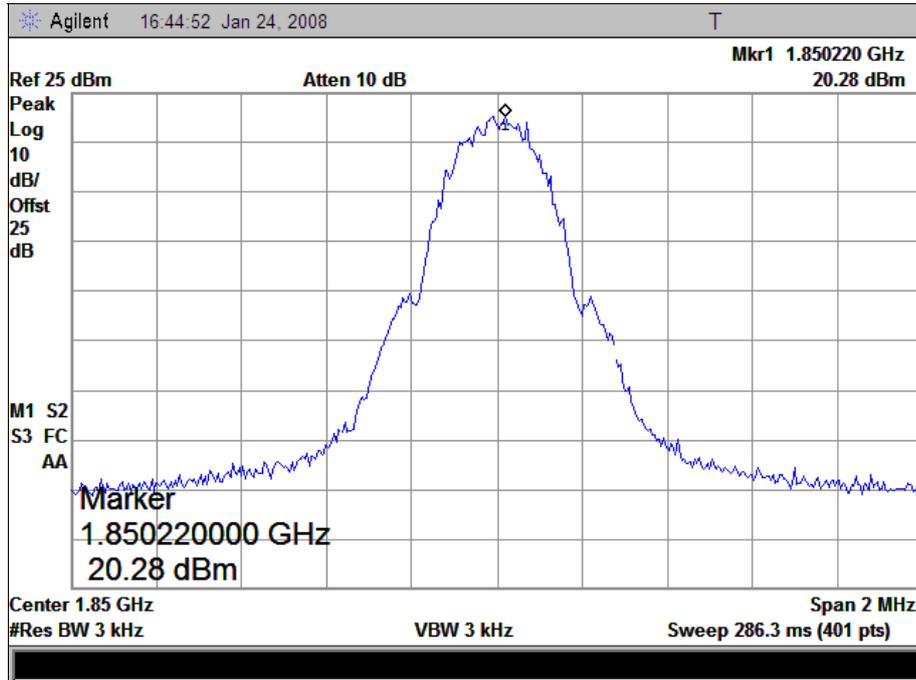
#### 2. Test Plot:



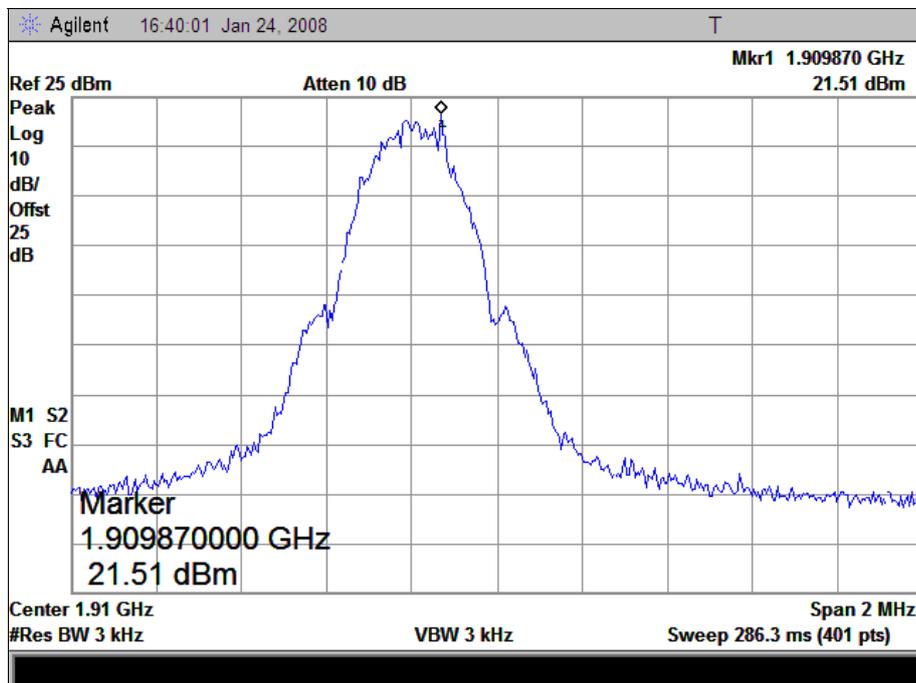
(Plot A: GSM 850MHz Channel = 128)



(Plot B: GSM 850MHz Channel = 251)



(Plot C: GSM 1900MHz Channel = 512)



(Plot D: GSM 1900MHz Channel = 810)

## 3.2 Conducted RF Output Power

### 3.2.1 Requirement

According to FCC section 2.1046(a), for transmitters other than single sideband, independent sideband and controlled carrier radiotelephone, power output shall be measured at the RF output terminals when the transmitter is adjusted in accordance with the tune-up procedure to give the values of current and voltage on the circuit elements specified in FCC section 2.1033(c)(8).

### 3.2.2 Test Description

See section 3.1.2 of this report.

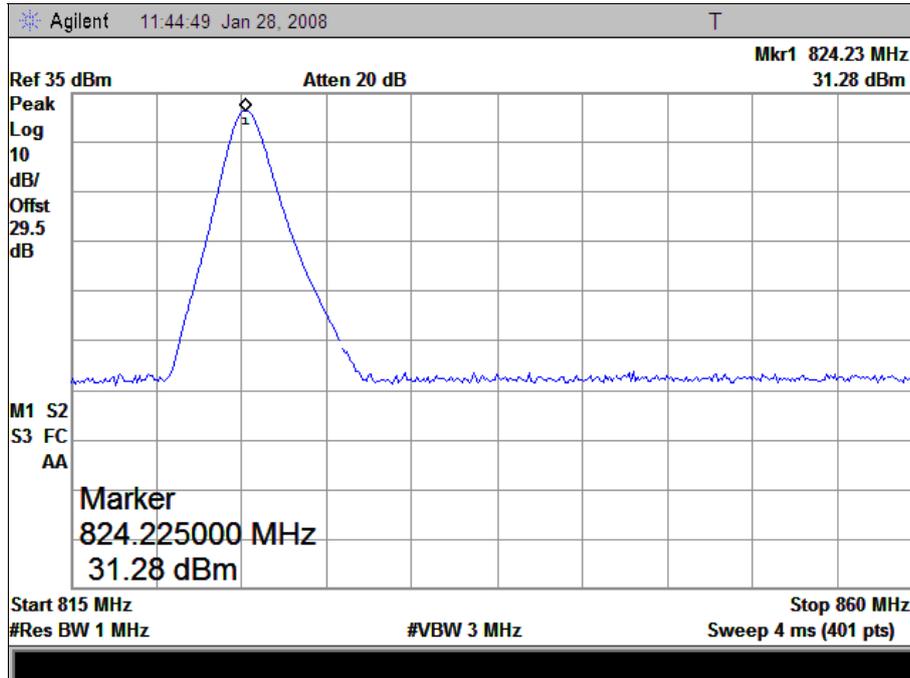
### 3.2.3 Test Result

Here the lowest, middle and highest channels are selected to perform testing to verify the conducted RF output power of the EUT. For the GSM 850MHz operates at PCL=5 (where Power Class is 4), the rated conducted RF output power is 33dBm within the tolerance of  $\pm 3$ dB, and For the GSM 1900MHz operates at PCL=0 (where Power Class is 1), the rated conducted RF output power is 30dBm within the tolerance of  $\pm 3$ dB.

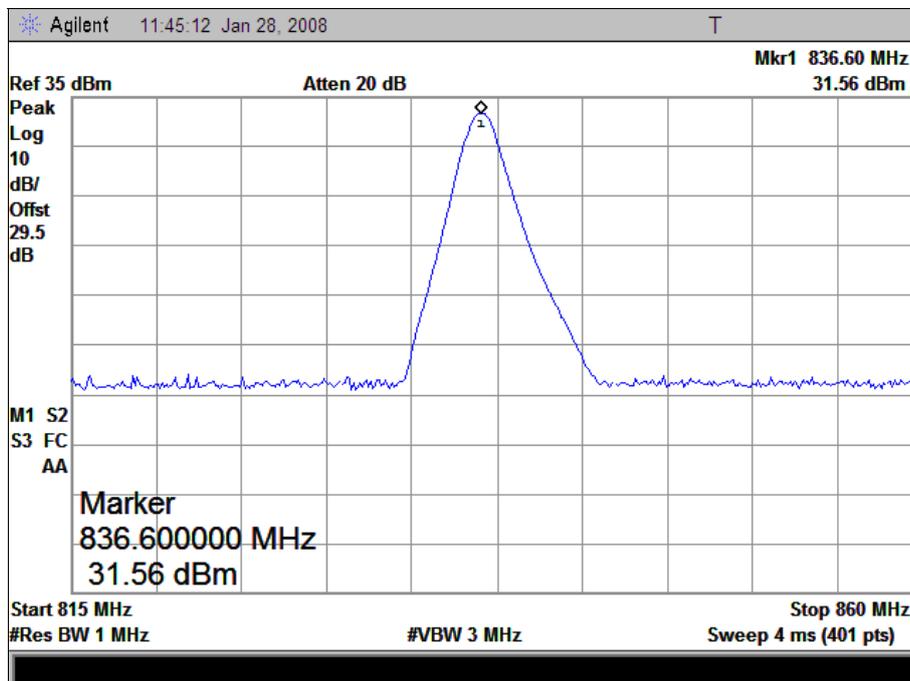
#### 1. Test Verdict:

Band	Channel	Frequency (MHz)	Measured Output Power		Rated Output Power		Verdict
			dBm	Refer to Plot	dBm	Tolerance (dB)	
GSM 850MHz	128	824.2	31.28	Plot A	33	$\pm 3$	PASS
	190	836.6	31.56	Plot B			PASS
	251	848.8	32.04	Plot C			PASS
GSM 1900MHz	512	1850.2	28.8	Plot D	30	$\pm 3$	PASS
	661	1880.0	28.68	Plot E			PASS
	810	1909.8	28.67	Plot F			PASS

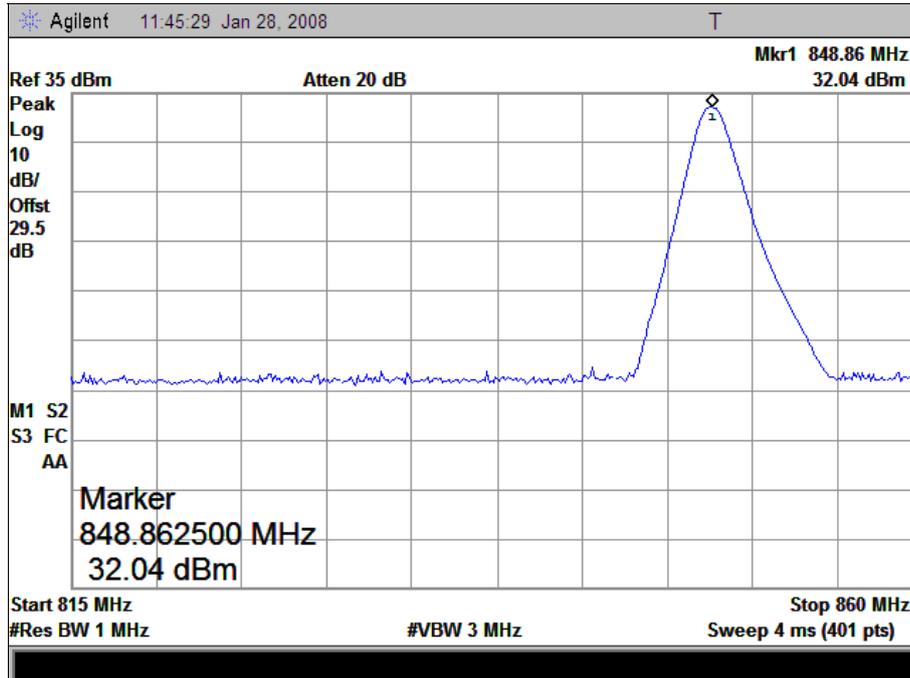
#### 2. Test Plot:



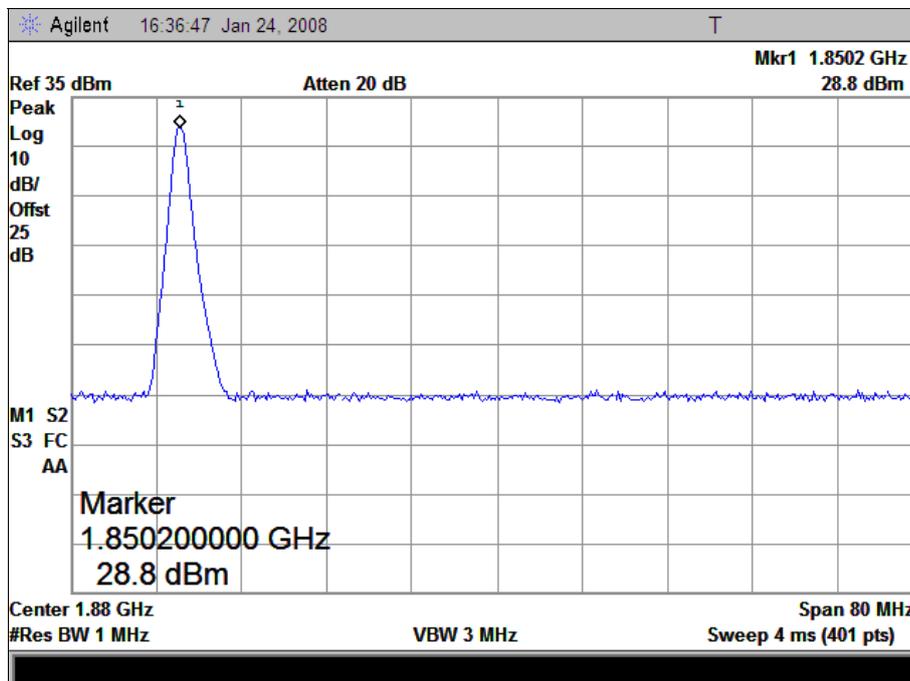
(Plot A: GSM 850MHz Channel = 128)



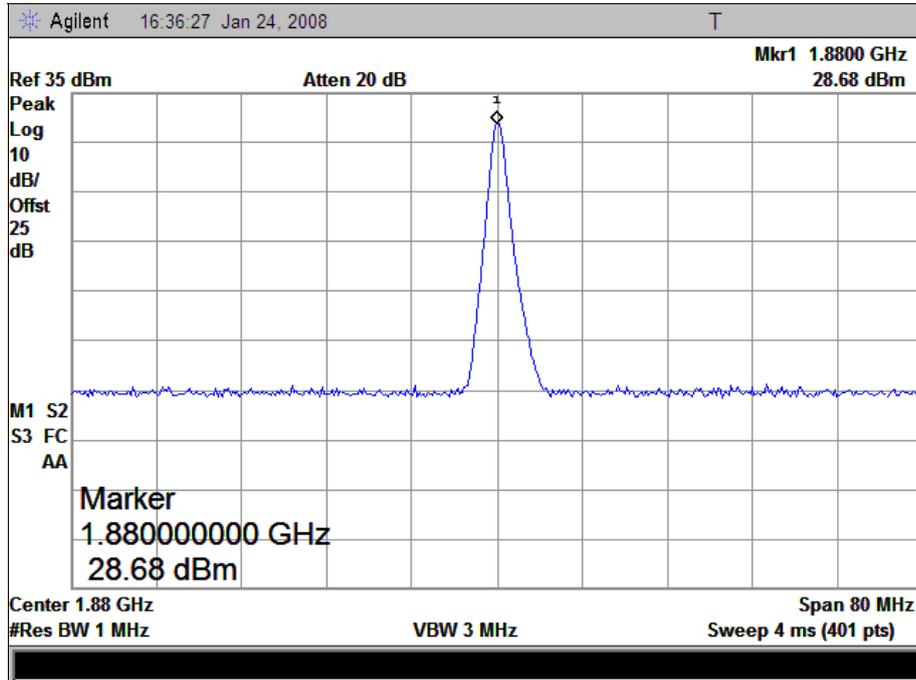
(Plot B: GSM 850MHz Channel = 190)



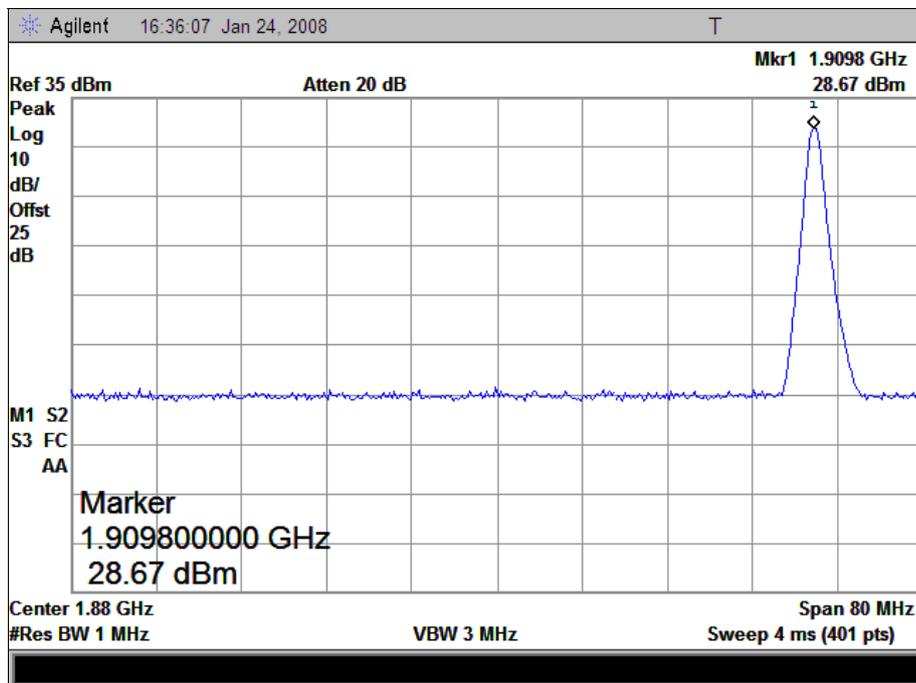
(Plot C: GSM 850MHz Channel = 251)



(Plot D: GSM 1900MHz Channel = 512)



(Plot E: GSM 1900MHz Channel = 661)



(Plot F: GSM 1900MHz Channel = 810)

### 3.3 20dB Occupied Bandwidth

#### 3.3.1 Definition

According to FCC section 2.1049, the occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission.

Occupied bandwidth is also known as the 99% emission bandwidth, or 20dB bandwidth ( $10 \cdot \log 1\% = 20\text{dB}$ ) taking the total RF output power as reference.

#### 3.3.2 Test Description

See section 3.1.2 of this report.

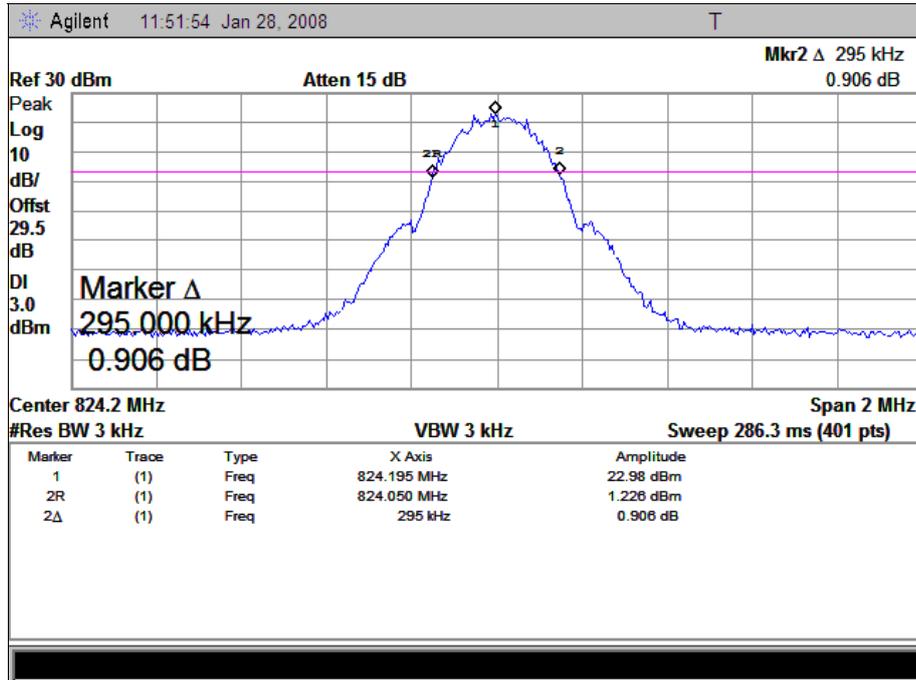
#### 3.3.3 Test Verdict

Here the lowest, middle and highest channels are tested to record the 20dB occupied bandwidth, it's about 300kHz.

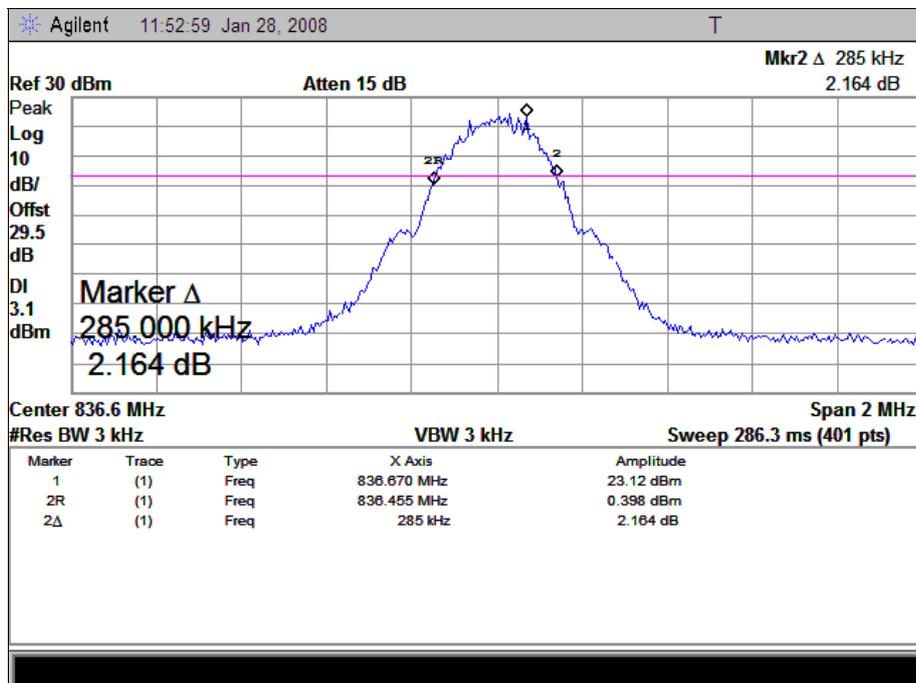
##### 1. Test Verdict:

Band	Channel	Frequency (MHz)	Measured 20dB Occupied Bandwidth (kHz)	Refer to Plot
GSM 850MHz	128	824.2	295.0	Plot A
	190	836.6	285.0	Plot B
	251	848.8	290.0	Plot C
GSM 1900MHz	512	1850.2	295.0	Plot D
	661	1880.0	285.0	Plot E
	810	1909.8	285.0	Plot F

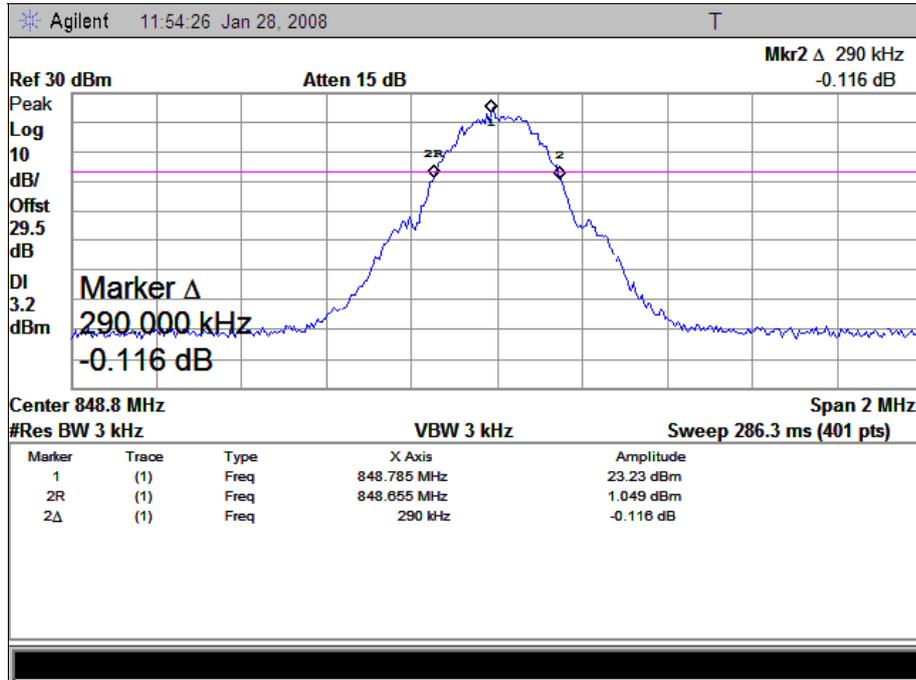
##### 2. Test Plot:



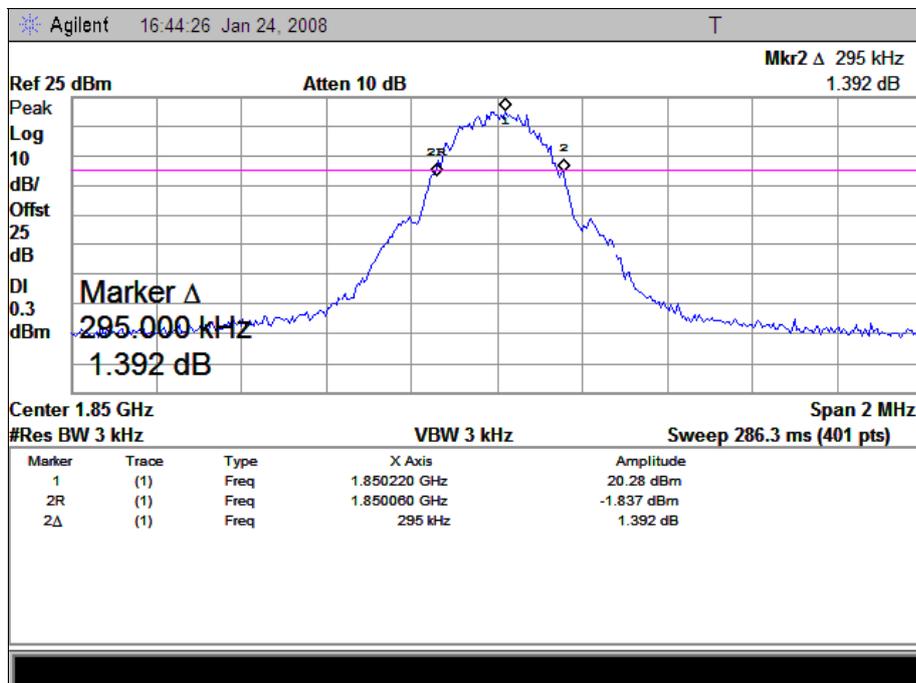
(Plot A: GSM 850MHz Channel = 128)



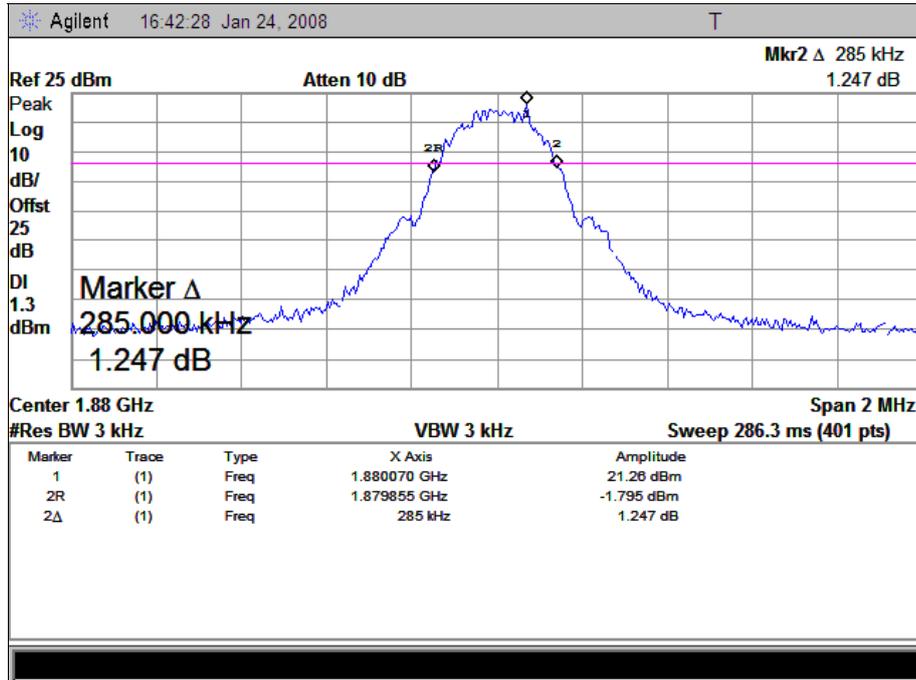
(Plot B: GSM 850MHz Channel = 190)



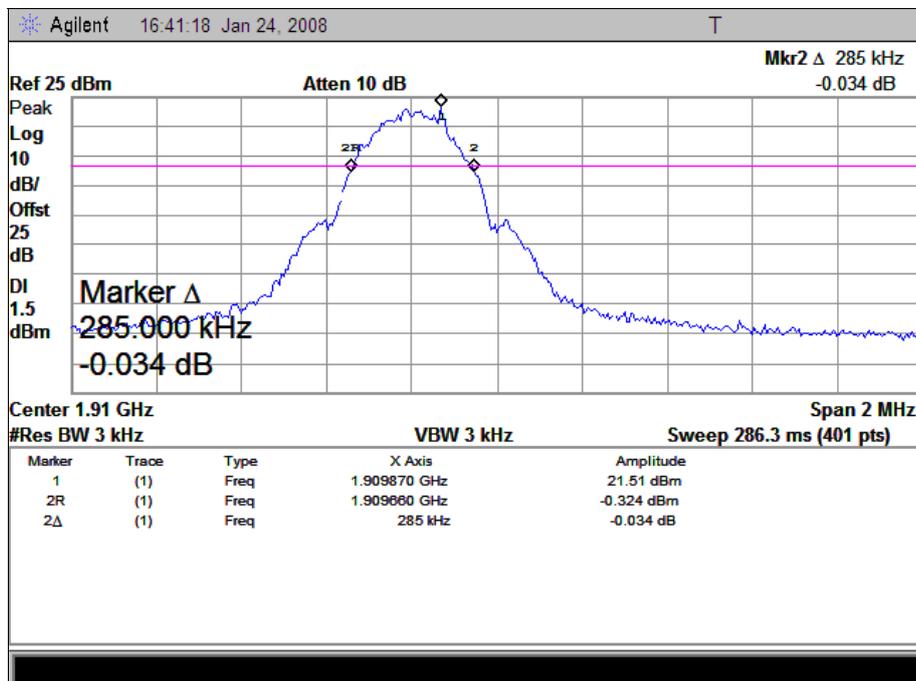
(Plot C: GSM 850MHz Channel = 251)



(Plot D: GSM 1900MHz Channel = 512)



(Plot E: GSM 1900MHz Channel = 661)



(Plot F: GSM 1900MHz Channel = 810)

### 3.4 Frequency Stability

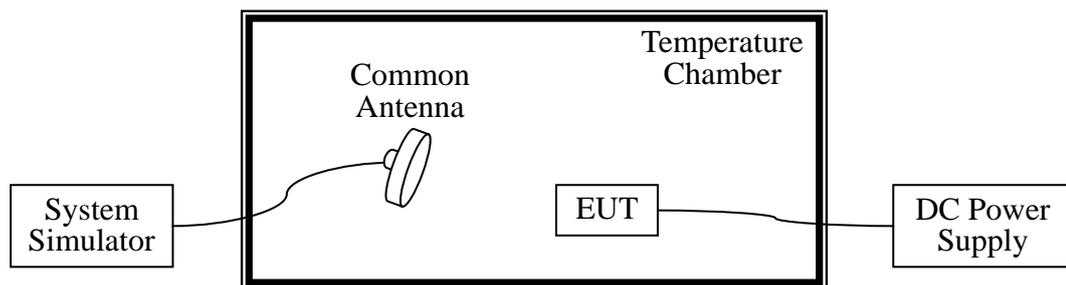
#### 3.4.1 Requirement

According to FCC section 22.355 and FCC section 24.235, the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. According to FCC section 2.1055, the test conditions are:

- (a) The temperature is varied from -30°C to +50°C at intervals of not more than 10°C.
- (b) For hand carried battery powered equipment, the primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacture. The supply voltage shall be measured at the input to the cable normally provided with the equipment, or at the power supply terminals if cables are not normally provided.

#### 3.4.2 Test Description

1. Test Setup:



The EUT, which is powered by the DC Power Supply directly, is located in the Temperature Chamber. The EUT is commanded by the System Simulator (SS) to operate at the maximum output power i.e. Power Control Level (PCL) = 5 and Power Class = 4. A call is established between the EUT and the SS via a Common Antenna.

2. Equipments List:

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
System Simulator	Agilent	E5515C	GB43130131	2007.06	1year
DC Power Supply	Good Will	GPS-3030DD	EF920938	2007.06	2year
Temperature Chamber	YinHe Experimental Equip.	HL4003T	(n.a.)	2007.03	1year

#### 3.4.3 Test Verdict

The nominal, highest and lowest extreme voltages are separately 3.7VDC, 4.2VDC and 3.6VDC, which are specified by the applicant; the normal temperature here used is 25°C. The frequency

deviation limit of GSM 850MHz band is  $\pm 2.5$ ppm, and GSM 1900MHz is  $\pm 1$ ppm

Band	Test Conditions		Frequency Deviation						Verdict
	Power (VDC)	Temperature (°C)	Channel = 128 (824.2MHz)		Channel = 190 (836.6MHz)		Channel = 251 (848.8MHz)		
			Hz	Limits	Hz	Limits	Hz	Limits	
GSM 850MHz	3.7	-30	35.26	$\pm 2060.5$	36.16	$\pm 2091.5$	26.15	$\pm 2122$	PASS
		-20	25.16		28.64		11.25		
		-10	19.35		28.55		40.16		
		0	-26.15		-31.26		-26.59		
		+10	19.55		-26.89		31.86		
		+20	26.84		22.87		-18.67		
		+30	33.26		-26.51		26.49		
		+40	45.21		28.36		14.76		
		+50	-19.28		19.28		-22.05		
	4.2	+25	24.58	31.54	30.15				
3.6	+25	31.44	-21.46	18.59					
Band	Test Conditions		Frequency Deviation						Verdict
	Power (VDC)	Temperature (°C)	Channel = 512 (1850.2MHz)		Channel = 661 (1880.0MHz)		Channel = 810 (1909.8MHz)		
			Hz	Limits	Hz	Limits	Hz	Limits	
GSM 1900MHz	3.7	-30	26.05	$\pm 1850.2$	38.25	$\pm 1880.0$	22.16	$\pm 1909.8$	PASS
		-20	26.59		29.51		15.28		
		-10	31.05		-19.08		30.17		
		0	-29.51		-11.99		-25.04		
		+10	-26.30		24.81		-8.58		
		+20	21.05		30.08		10.05		
		+30	-20.58		26.81		15.24		
		+40	-30.15		26.17		31.28		
		+50	22.16		-9.05		-27.61		
	4.2	+25	24.51	-16.80	-28.52				
3.6	+25	26.18	17.08	22.54					

### 3.5 Conducted Out of Band Emissions

#### 3.5.1 Requirement

According to FCC section 22.917(a) and FCC section 24.238(a), the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43+10*\log(P)$ dB. This calculated to be -13dBm.

#### 3.5.2 Test Description

See section 3.1.2 of this report.

#### 3.5.3 Test Result

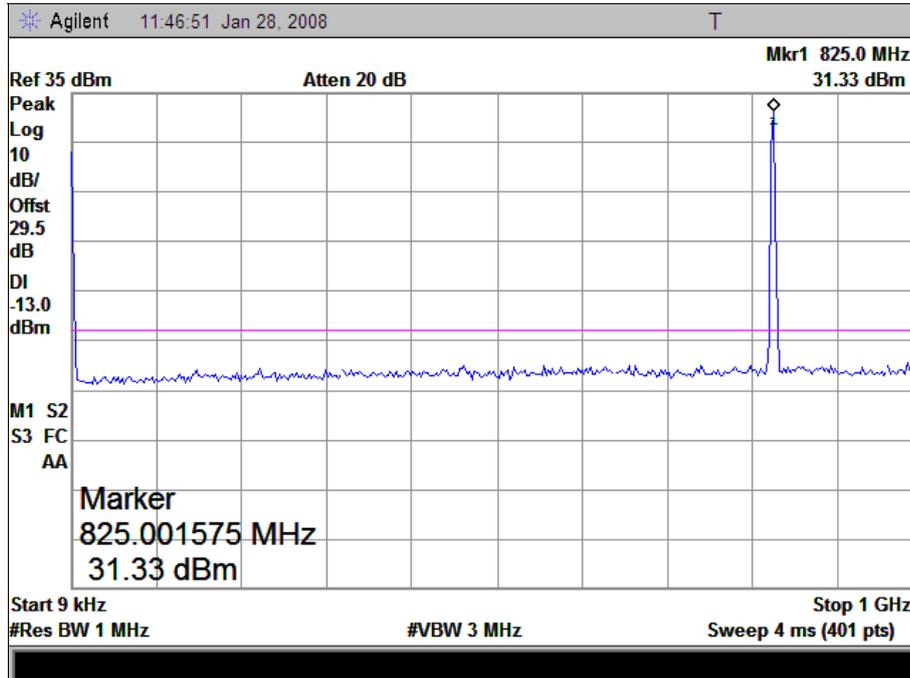
The measurement frequency range is from 30MHz to the 10<sup>th</sup> harmonic of the fundamental frequency. The lowest, middle and highest channels are tested to verify the out of band emissions.

##### 1. Test Verdict:

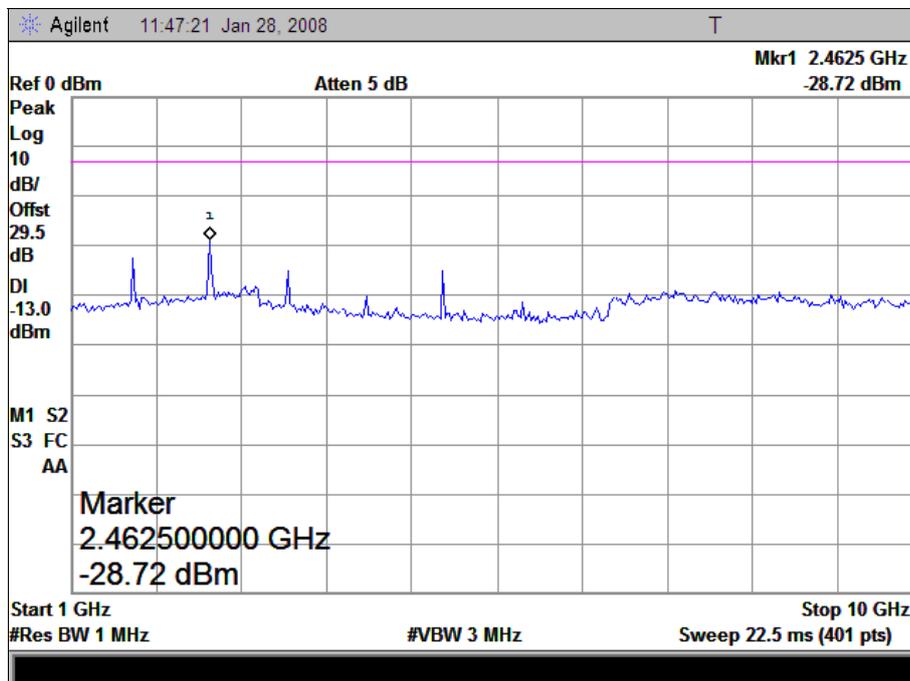
Band	Channel	Frequency (MHz)	Measured Max. Spurious Emission (dBm)	Refer to Plot	Limit (dBm)	Verdict
GSM 850MHz	128	824.2	---	Plot A.1/A.2	-13	PASS
	190	836.6	---	Plot B.1/B.2		PASS
	251	848.8	---	Plot C.1/C.2		PASS
GSM 1900MHz	512	1850.2	---	Plot D.1/D.2	-13	PASS
	661	1880.0	---	Plot E.1/E.2		PASS
	810	1909.8	---	Plot F.1/F.2		PASS

##### 2. Test Plot for the Whole Measurement Frequency Range:

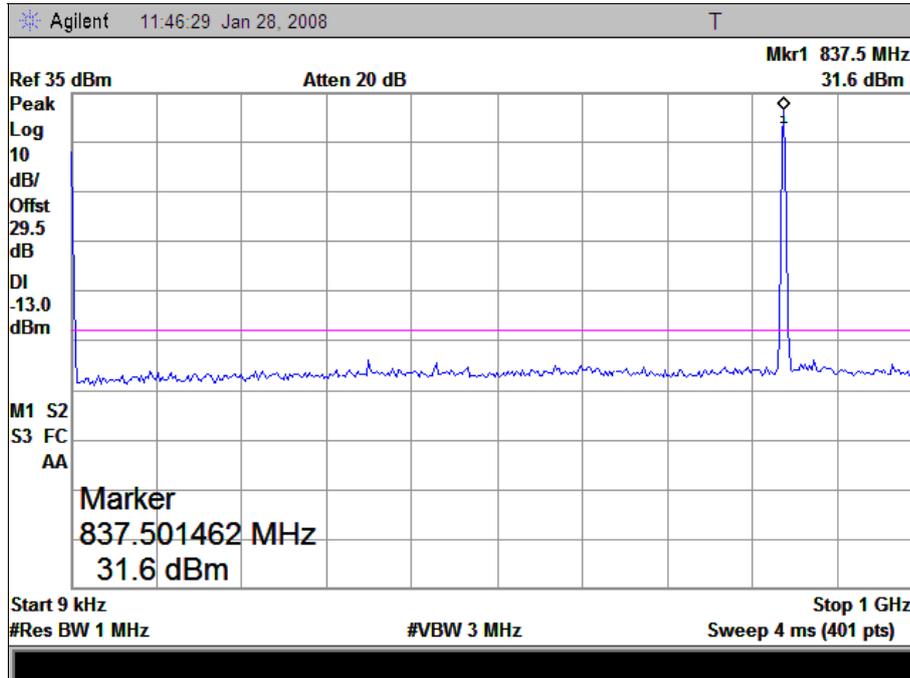
Note: the power of the EUT transmitting frequency should be ignored.



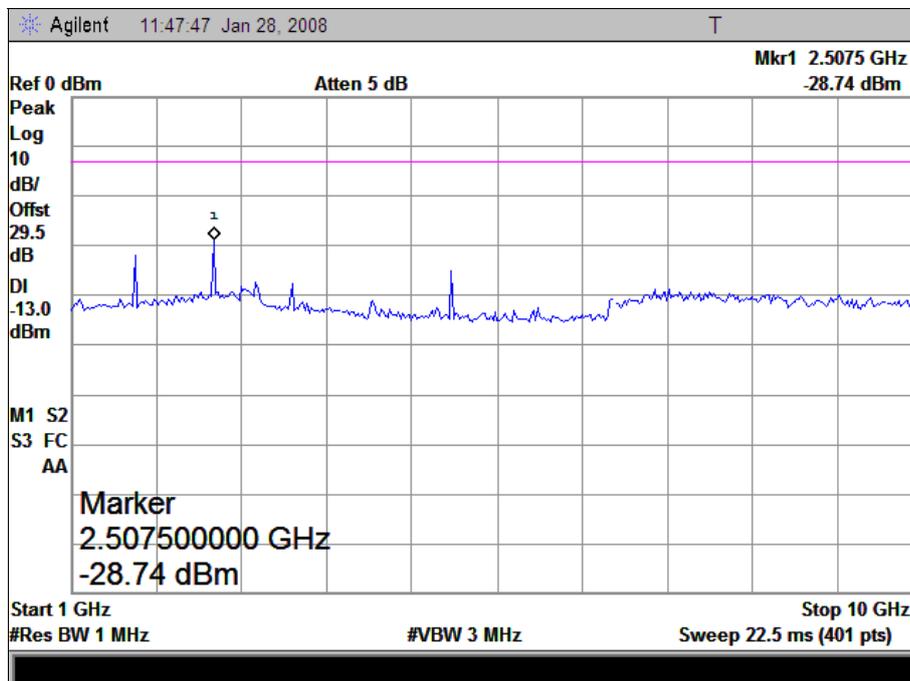
(Plot A.1: GSM 850MHz Channel = 128, 30MHz to 1GHz)



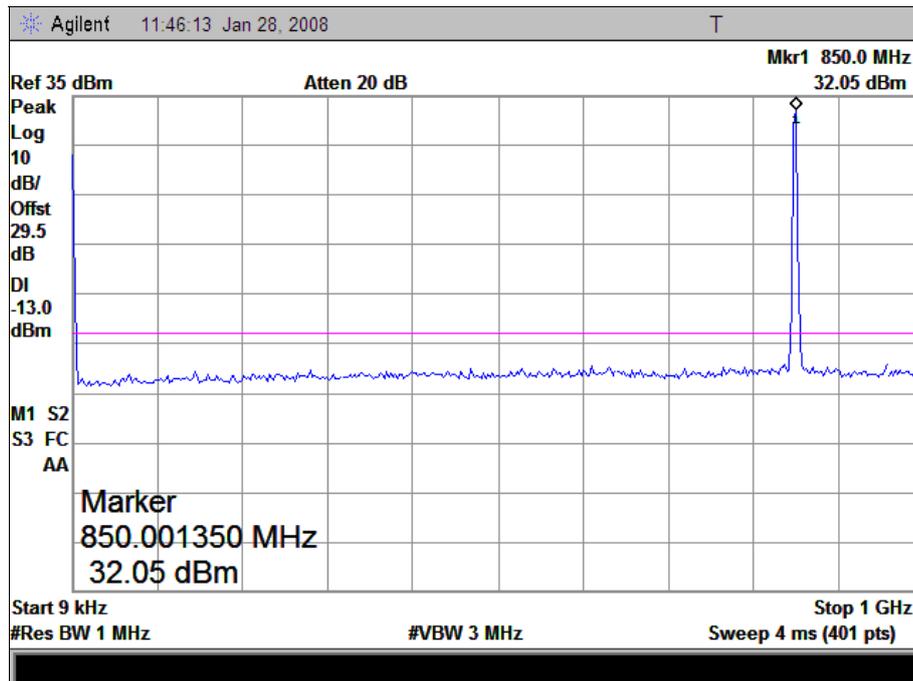
(Plot A.2: GSM 850MHz Channel = 128, 1GHz to 9GHz)



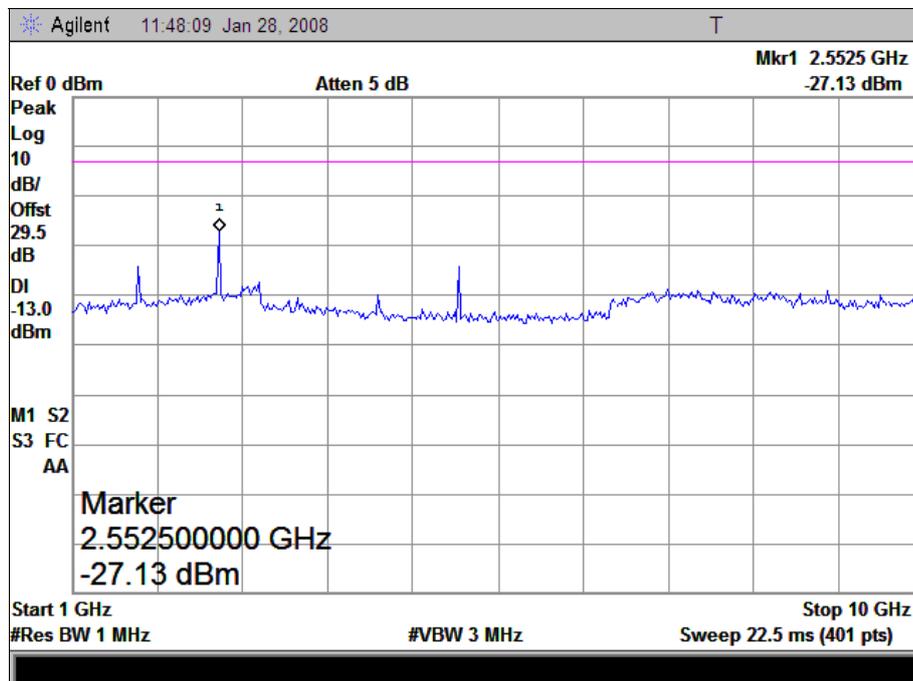
(Plot B.1: GSM 850MHz Channel = 190, 30MHz to 1GHz)



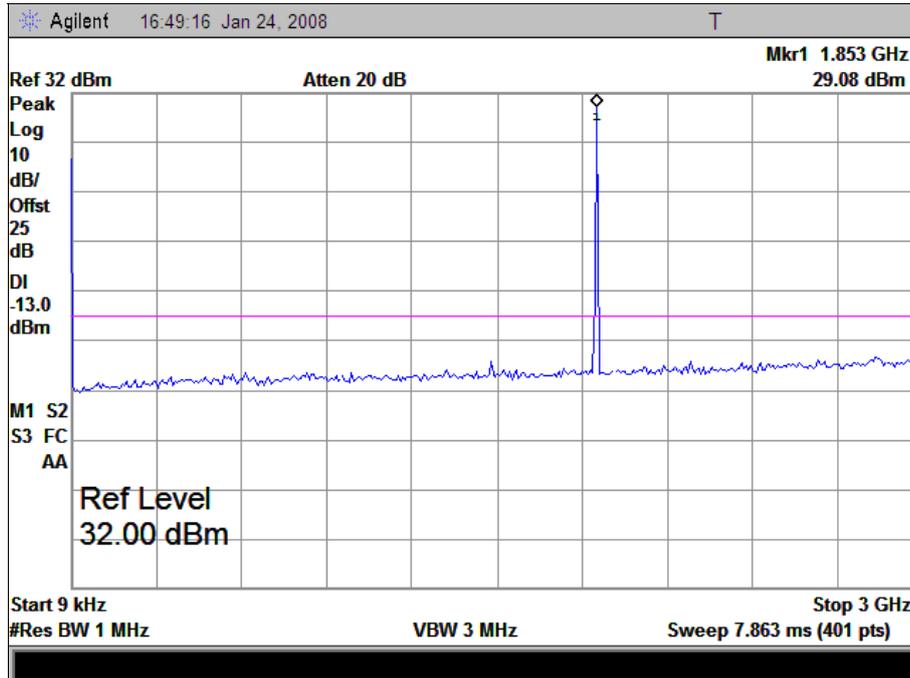
(Plot B.2: GSM 850MHz Channel = 190, 1GHz to 9GHz)



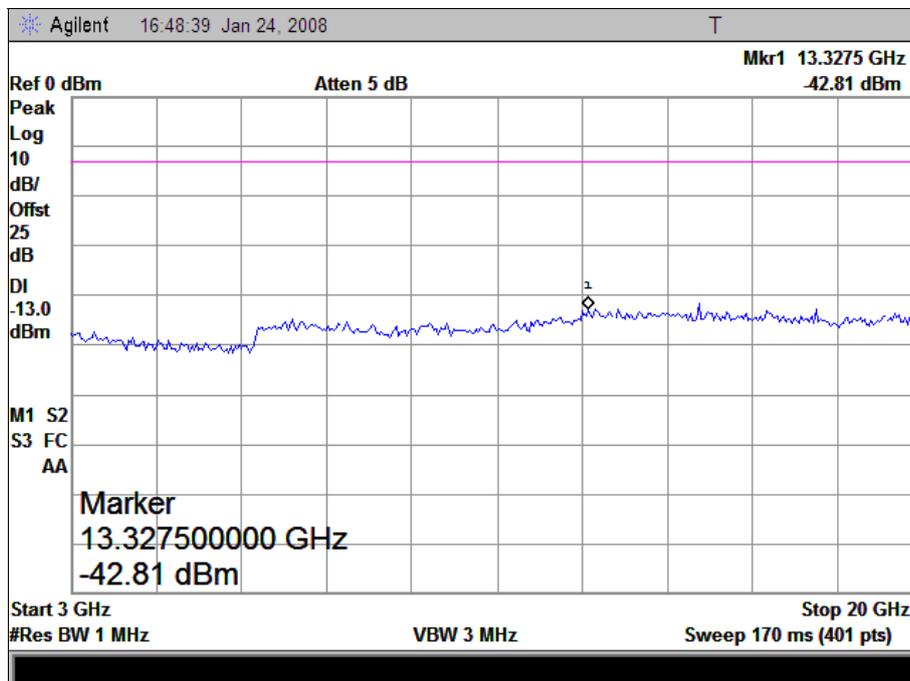
(Plot C.1: GSM 850MHz Channel = 251, 30MHz to 1GHz)



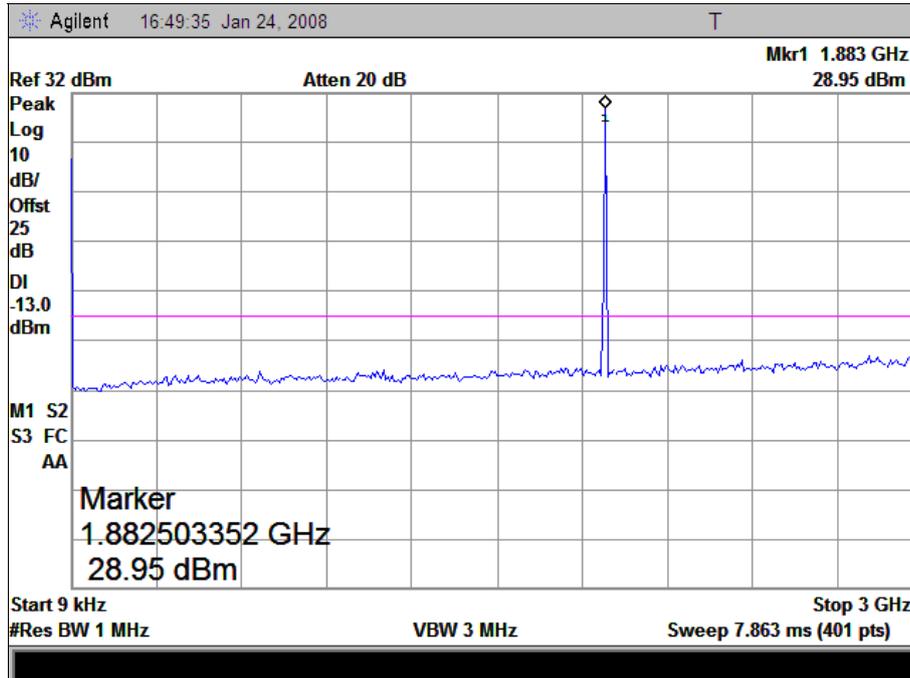
(Plot C.2: GSM 850MHz Channel = 251, 1GHz to 9GHz)



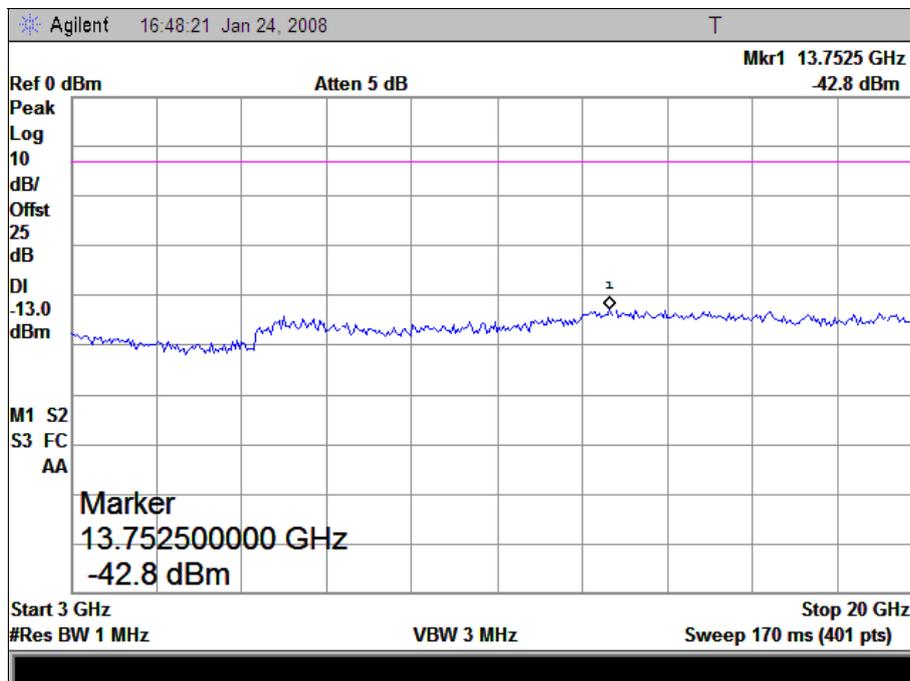
(Plot D.1: GSM 1900MHz Channel = 512, 30MHz to 3GHz)



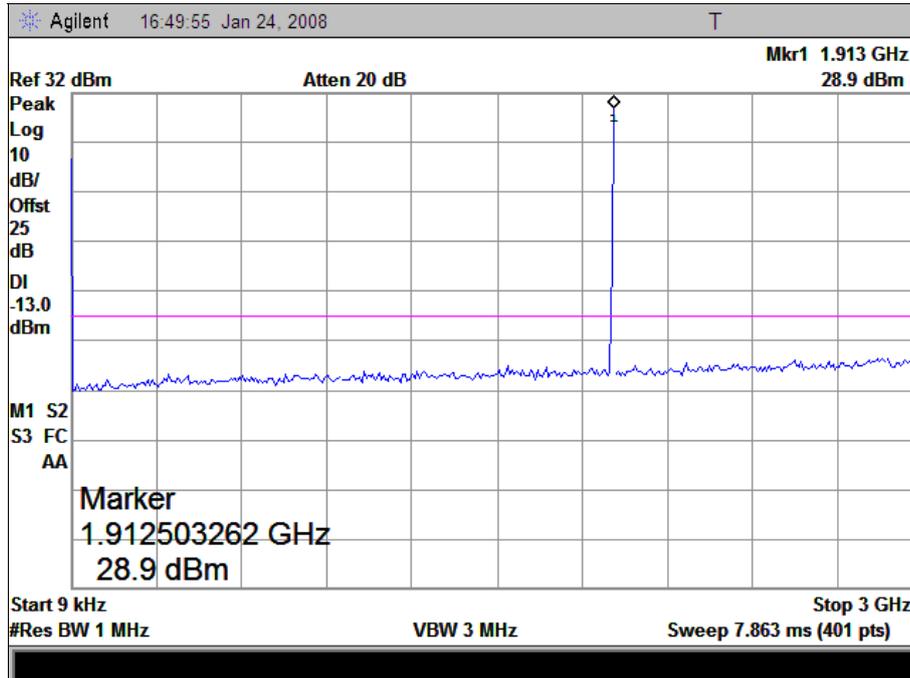
(Plot D.2: GSM 1900MHz Channel = 512, 3GHz to 20GHz)



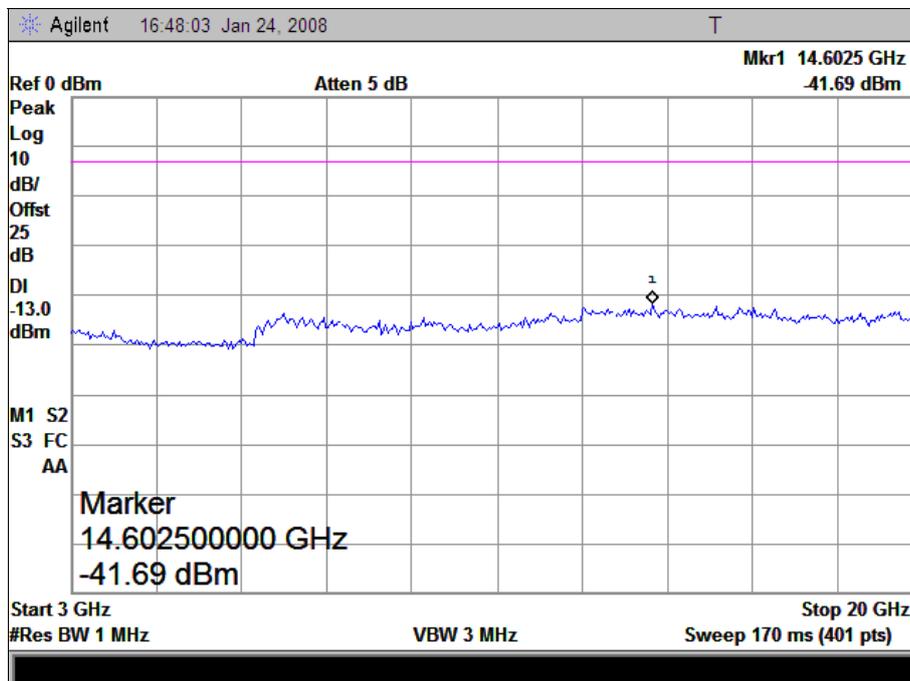
(Plot E.1: GSM 1900MHz Channel = 661, 30MHz to 3GHz)



(Plot E.2: GSM 1900MHz Channel = 661, 3GHz to 20GHz)



(Plot F.1: GSM 1900MHz Channel = 810, 30MHz to 3GHz)



(Plot F.2: GSM 1900MHz Channel = 810, 2GHz to 20GHz)

### 3.6 Band Edge

#### 3.6.1 Requirement

According to FCC section 22.917(b) and FCC section 24.238(b), in the 1MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth (26dB emission bandwidth) of the fundamental emission of the transmitter may be employed.

#### 3.6.2 Test Description

See section 3.1.2 of this report.

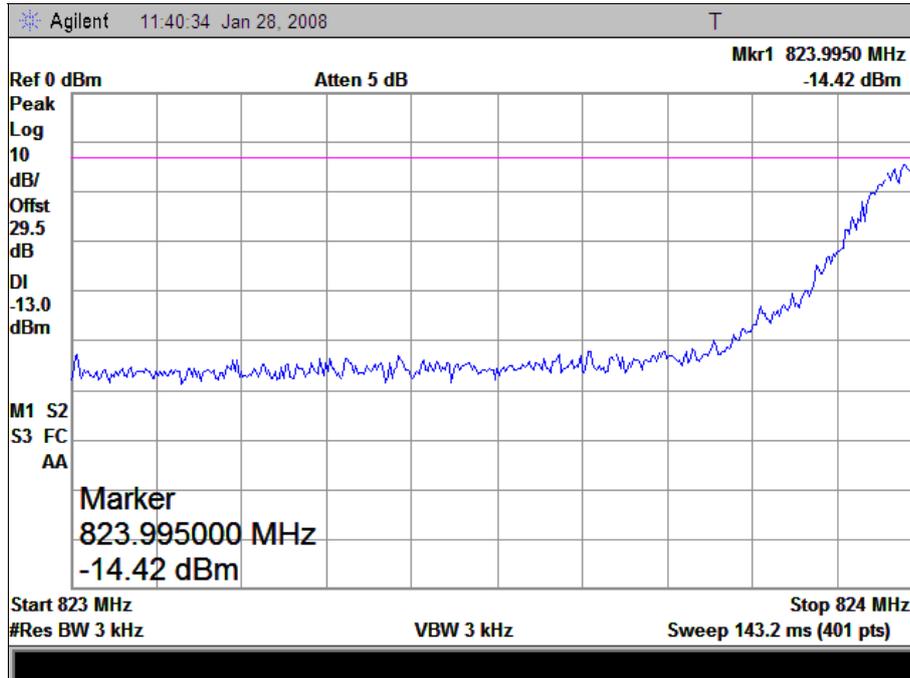
#### 3.6.3 Test Result

The lowest and highest channels are tested to verify the band edge emissions.

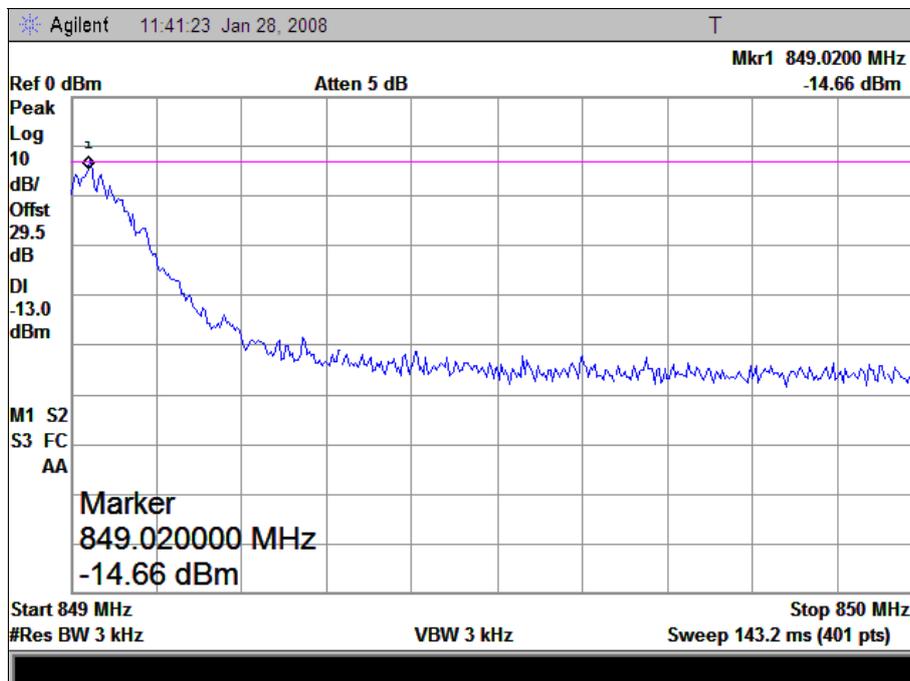
##### 1. Test Verdict:

Band	Channel	Frequency (MHz)	Measured Max. Band Edge Emission (dBm)	Refer to Plot	Limit (dBm)	Verdict
GSM 850MHz	128	824.2	-14.42	Plot A	-13	PASS
	251	848.8	-14.66	Plot B		PASS
GSM 1900MHz	512	1850.2	-14.99	Plot C	-13	PASS
	810	1909.8	-17.77	Plot D		PASS

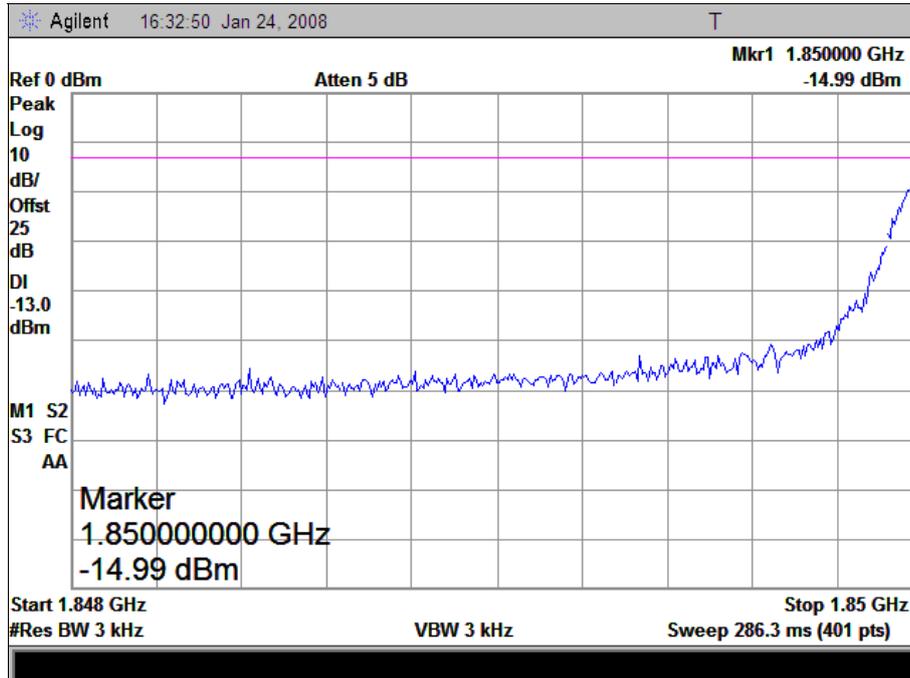
##### 2. Test Plot:



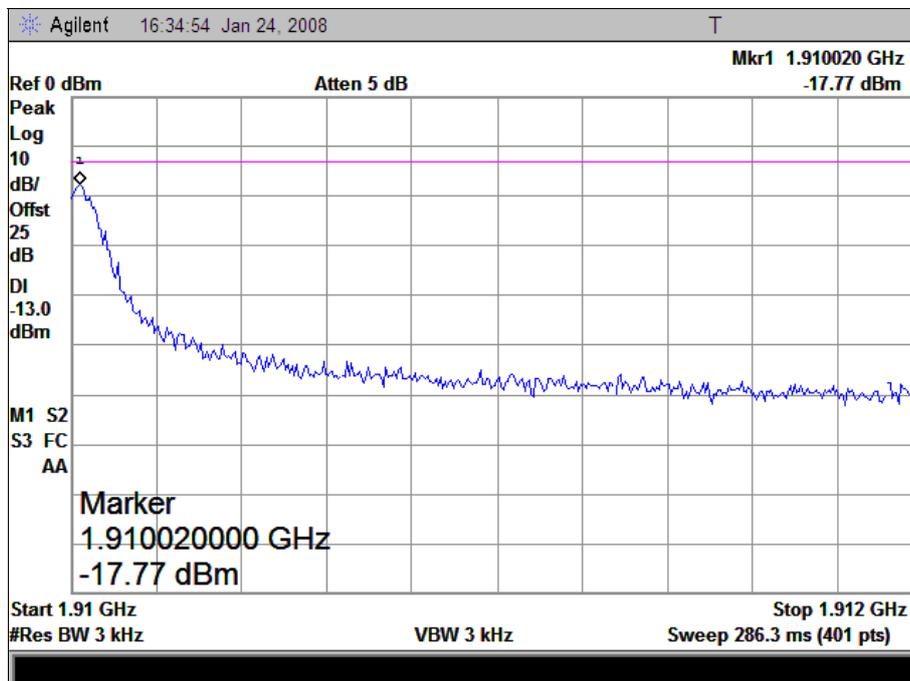
(Plot A: Channel = 128)



(Plot B: Channel = 251)



(Plot C: Channel = 512)



(Plot D: Channel = 810)

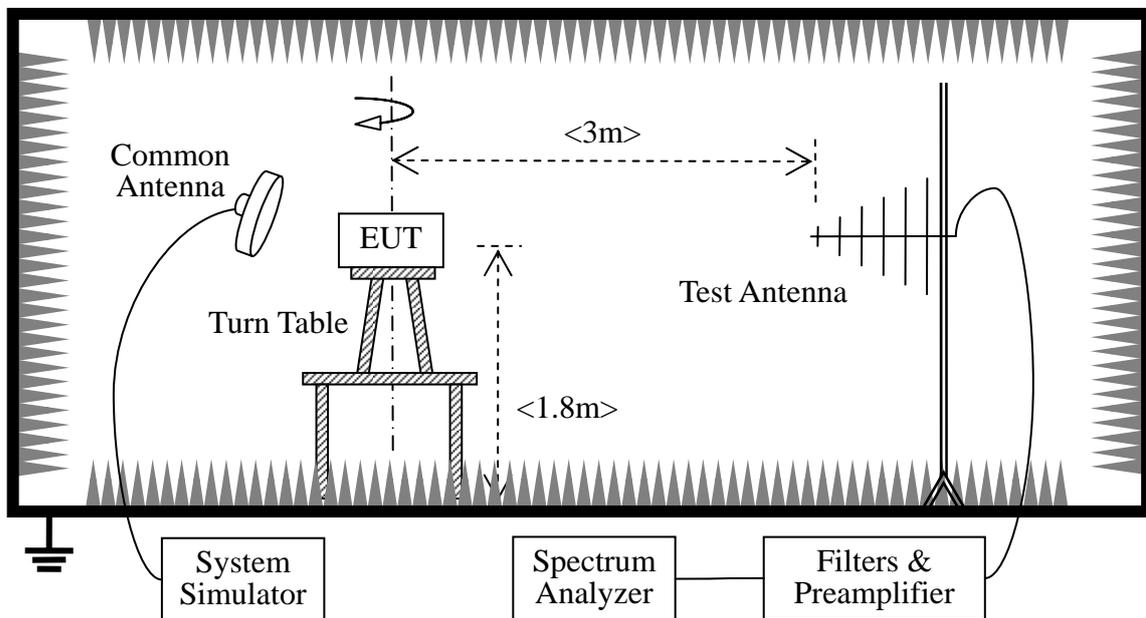
### 3.7 Transmitter Radiated Power (EIRP/ERP)

#### 3.7.1 Requirement

According to FCC section 22.913, the Effective Radiated Power (ERP) of mobile transmitters and auxiliary test transmitters must not exceed 7Watts, and FCC section 24.232, the broadband PCS mobile station is limited to 2Watts e.i.r.p. peak power.

#### 3.7.2 Test Description

1. Test Setup:



The EUT, which is powered by the Battery charged with the AC Adapter, is located in a 3m Full-Anechoic Chamber; the cable loss, air loss and so on of the site as factors are pre-calibrated using the "Substitution" method, and calculated to correct the reading. The EUT is commanded by the SS to operate at the maximum output power i.e. GSM850MHz band Power Control Level (PCL) = 5 and Power Class = 4 and GSM1900MHz band Power Control Level (PCL) = 0 and Power Class = 1. A call is established between the EUT and the SS via a Common Antenna.

The Test Antenna is a Bi-Log one (used for 30MHz to 1GHz) or a Horn one (used for above 3GHz), and it's located at the same height as the EUT. The Filters consists of Notch Filters and High Pass Filter.

2. Equipments List:

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
System Simulator	Agilent	E5515C	GB43130131	2007.06	1year

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Spectrum Analyzer	Agilent	E7405A	US44210471	2007.07	1year
Full-Anechoic Chamber	Albatross	9m*6m*6m	(n.a.)	2006.08	2year
Test Antenna - Bi-Log	Schwarzbeck	VULB 9163	9163-274	2007.07	1year
Test Antenna - Horn	Schwarzbeck	BBHA 9120C	9120C-384	2007.07	1year

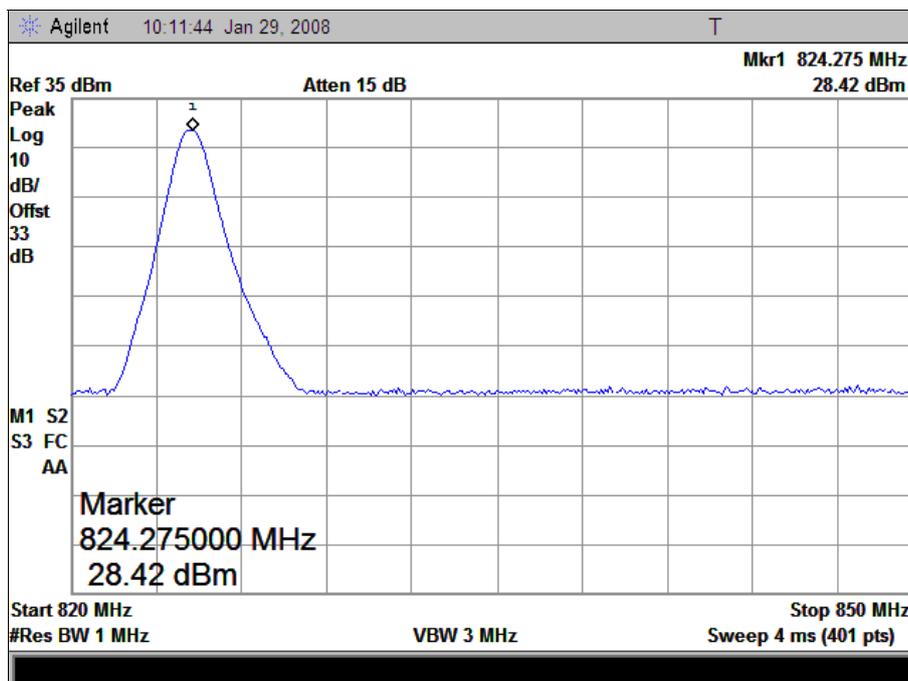
### 3.7.3 Test Result

The Turn Table is actuated to turn from 0° to 360°, and both horizontal and vertical polarizations of the Test Antenna are used to find the maximum radiated power. The lowest, middle and highest channels are tested.

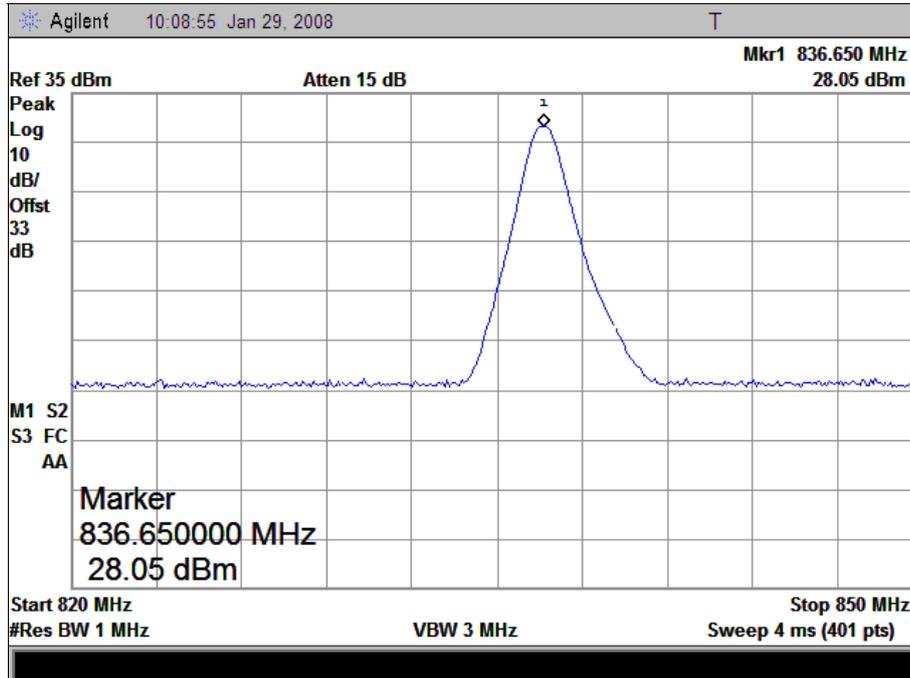
1. Test Verdict:

Band	Channel	Frequency (MHz)	Measured ERP/EIRP			Limit		Verdict
			dBm	W	Refer to Plot	dBm	W	
GSM 850MHz	128	824.20	28.42	0.695	Plot A	38.45	7	PASS
	190	836.60	28.05	0.638	Plot B			PASS
	251	848.80	27.48	0.560	Plot C			PASS
GSM 1900MHz	512	1850.2	24.47	0.280	Plot D	33	2	PASS
	661	1880.0	24.49	0.281	Plot E			PASS
	810	1909.8	24.43	0.277	Plot F			PASS

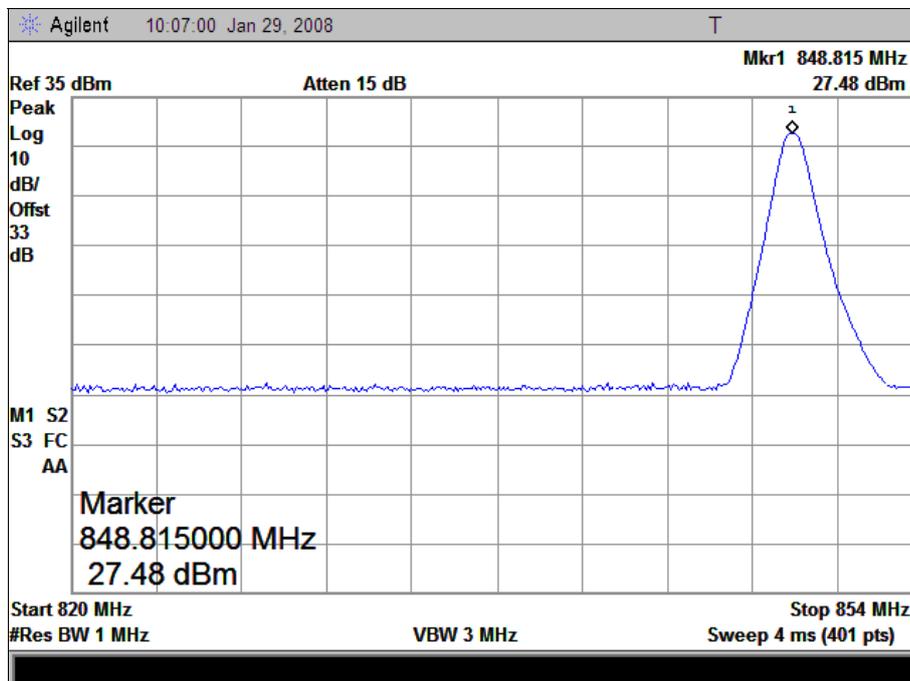
2. Test Plot:



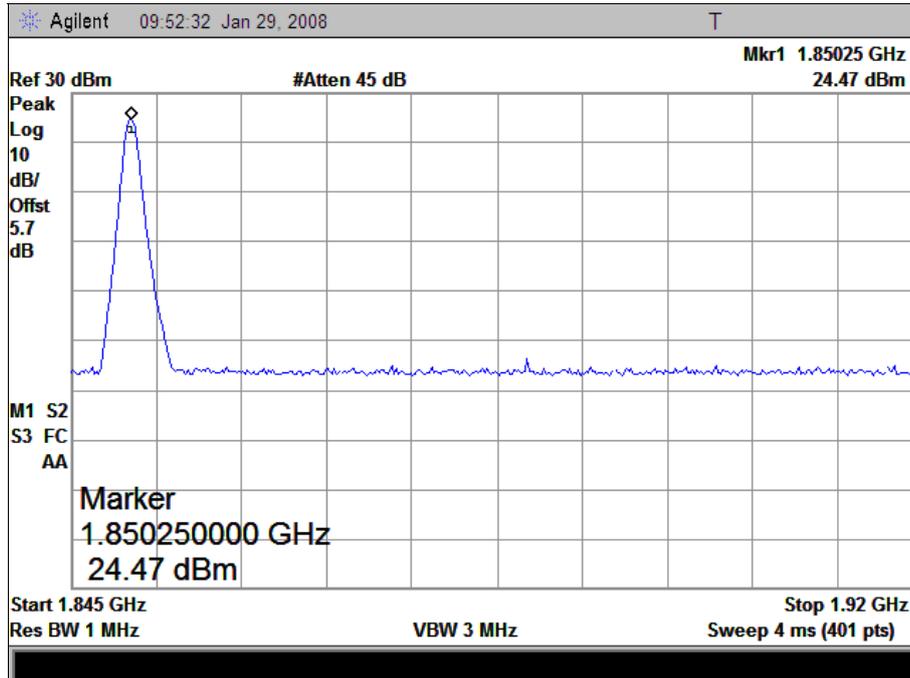
(Plot A: GSM 850MHz Channel = 128)



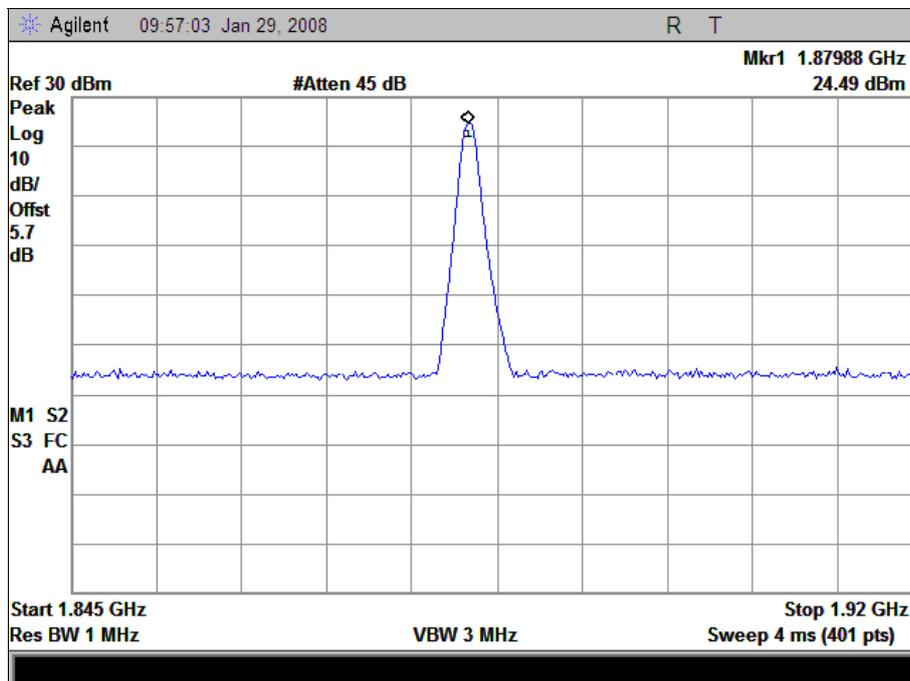
(Plot B: GSM 850MHz Channel = 190)



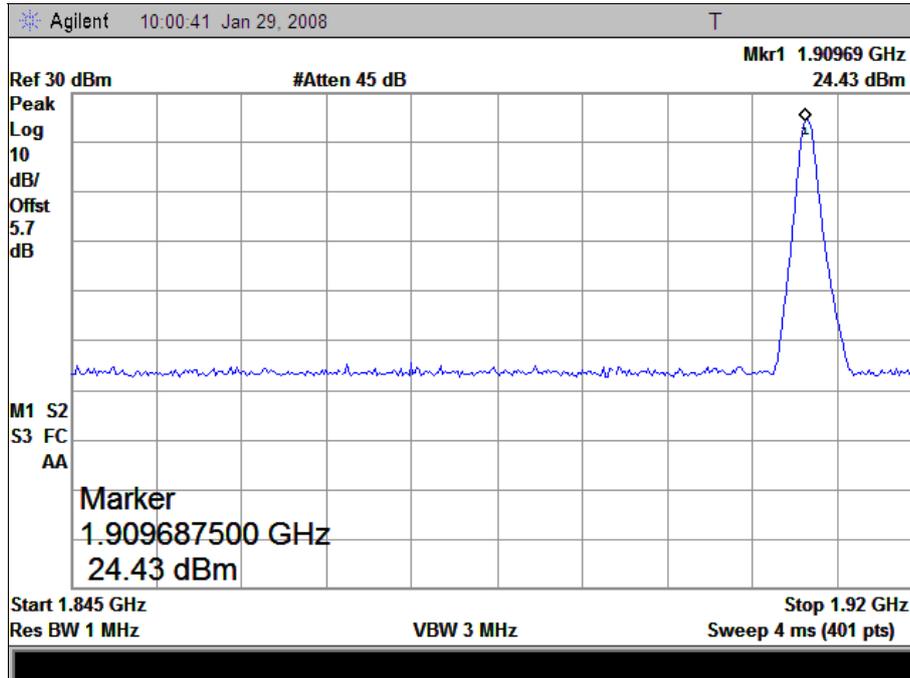
(Plot C: GSM 850MHz Channel = 251)



(Plot D: GSM 1900MHz Channel = 512)



(Plot E: GSM 1900MHz Channel = 661)



(Plot F: GSM 1900MHz Channel = 810)

### 3.8 Radiated Out of Band Emissions

#### 3.8.1 Requirement

According to FCC section 22.917(a) and section 24.238(a), the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43+10*\log(P)$ dB. This calculated to be -13dBm.

#### 3.8.2 Test Description

See section 3.7.2 of this report.

#### 3.8.3 Test Result

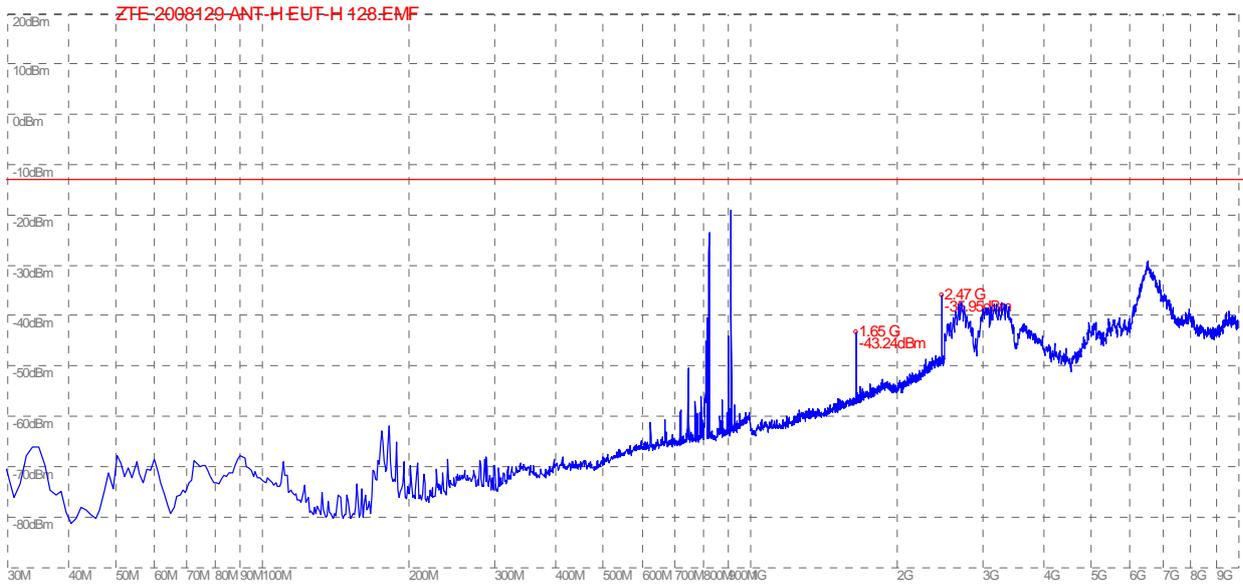
The measurement frequency range is from 30MHz to the 10th harmonic of the fundamental frequency. The Turn Table is actuated to turn from 0° to 360°, and both horizontal and vertical polarizations of the Test Antenna are used to find the maximum radiated power. The lowest, middle and highest channels are tested to verify the out of band emissions.

##### 1. Test Verdict:

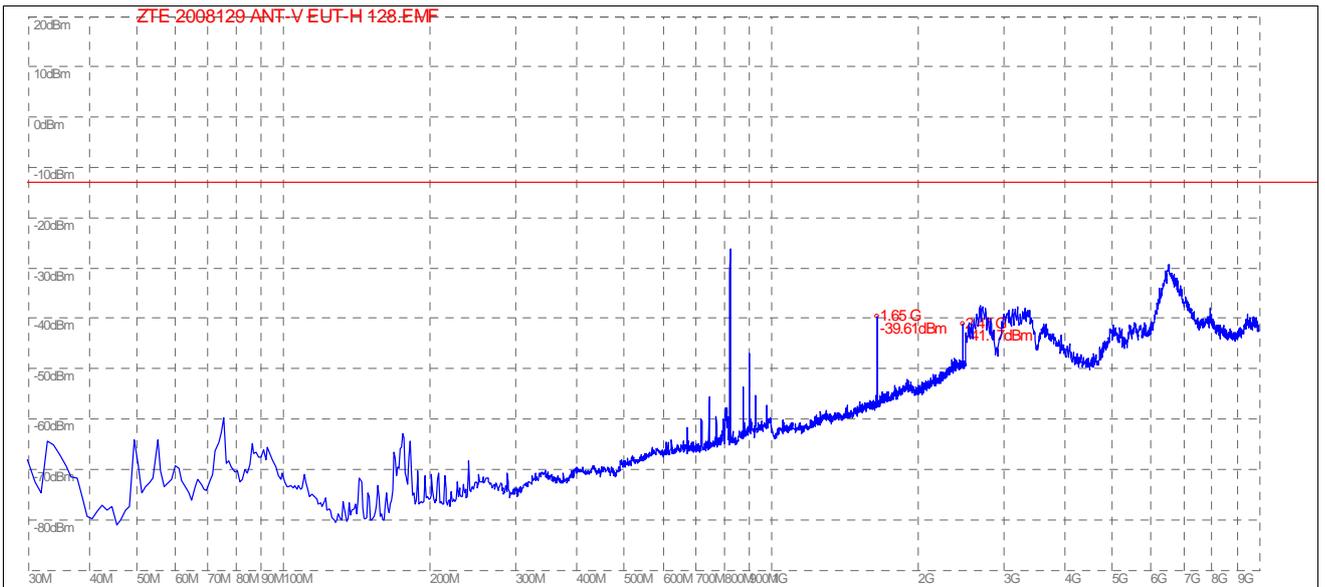
Band	Channel	Frequency (MHz)	Measured Max. Spurious Emission (dBm)		Refer to Plot	Limit (dBm)	Verdict
			Test Antenna Horizontal	Test Antenna Vertical			
GSM 850MHz	128	824.2	< -30	< -30	Plot A.1/A.2	-13	PASS
	190	836.6	< -30	< -30	Plot B.1/B.2		PASS
	251	848.8	< -30	< -30	Plot C.1/C.2		PASS
GSM 1900MHz	512	1850.2	< -25	< -25	Plot D.1/D.2	-13	PASS
	661	1880.0	< -25	< -25	Plot E.1/E.2		PASS
	810	1909.8	< -25	< -25	Plot F.1/F.2		PASS

##### 2. Test Plot for the Whole Measurement Frequency Range:

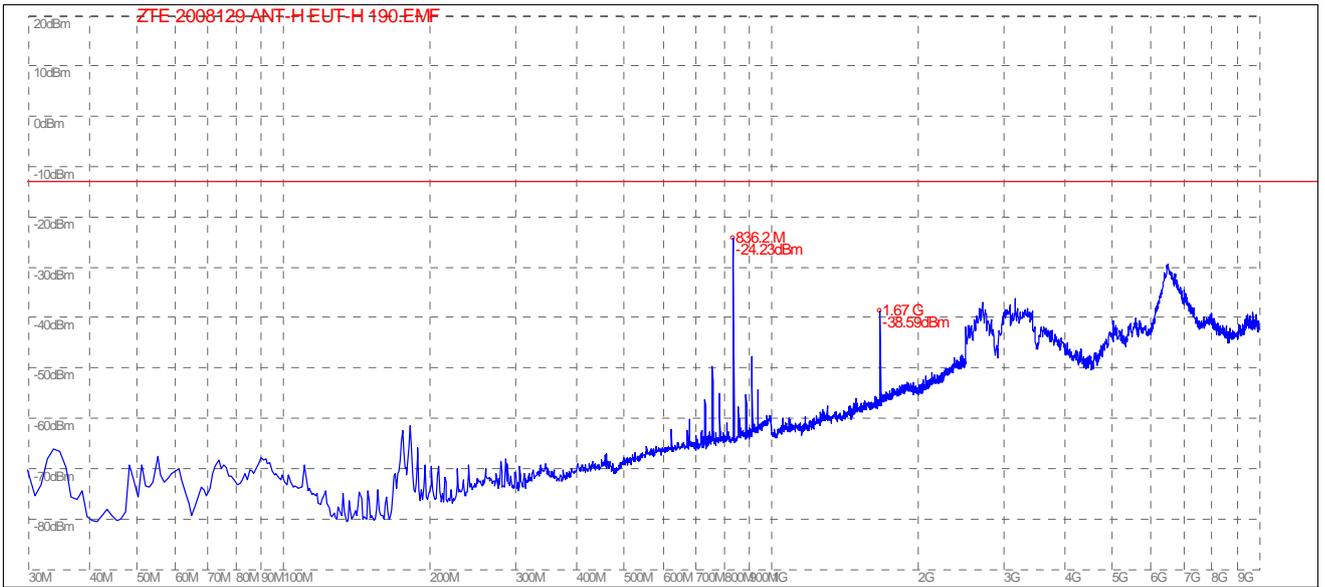
Note: the power of the EUT transmitting frequency should be ignored.



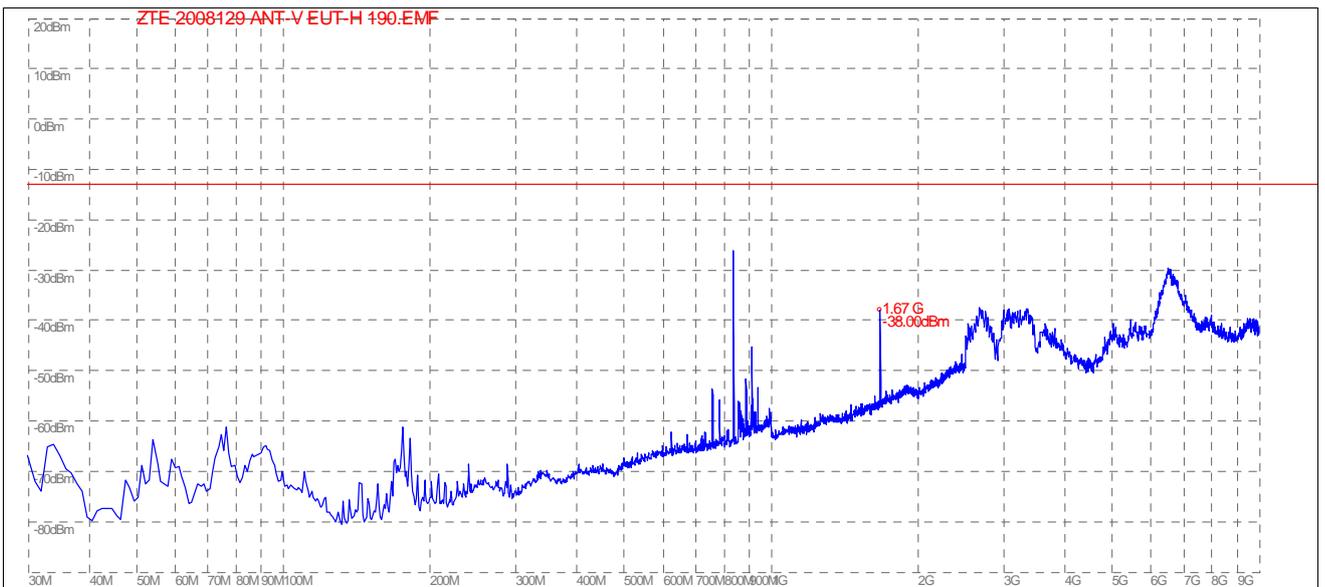
(Plot A.1: GSM 850MHz Channel = 128, Test Antenna Horizontal)



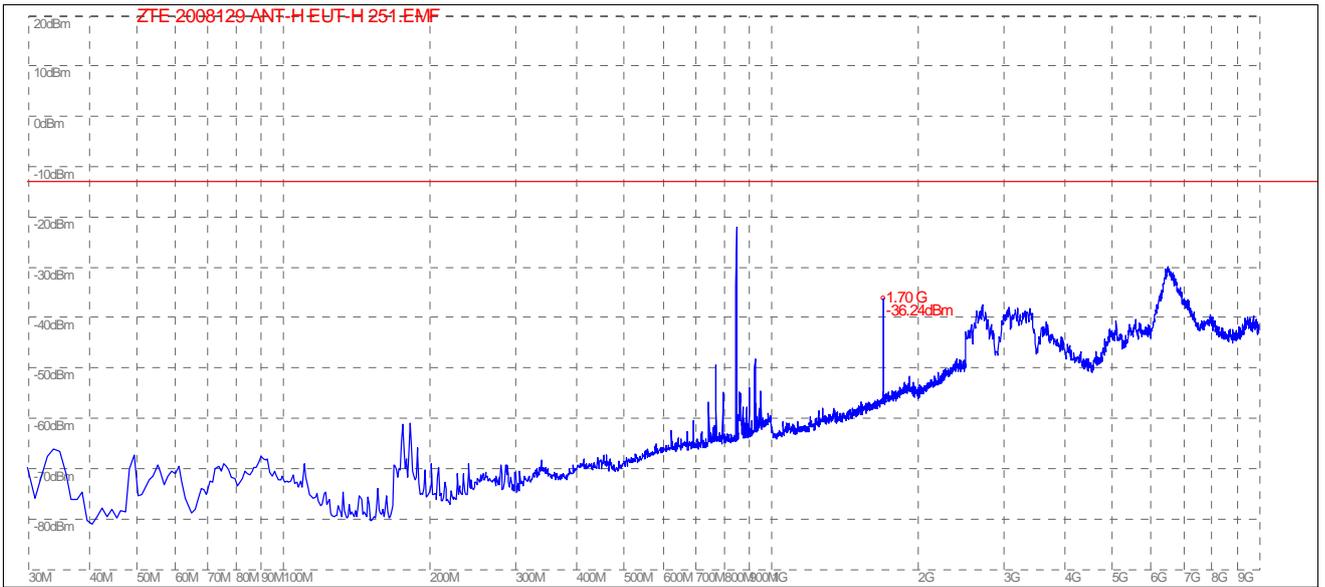
(Plot A.2: GSM 850MHz Channel = 128, Test Antenna Vertical)



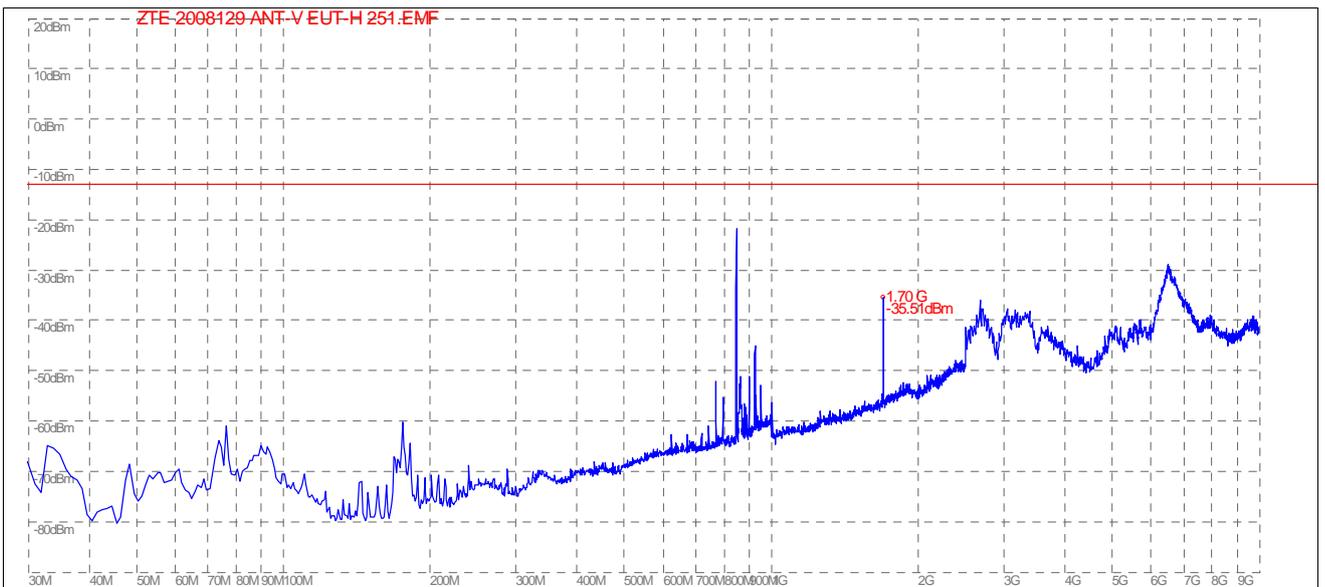
(Plot B.1: GSM 850MHz Channel = 190, Test Antenna Horizontal)



(Plot B.2: GSM 850MHz Channel = 190, Test Antenna Vertical)



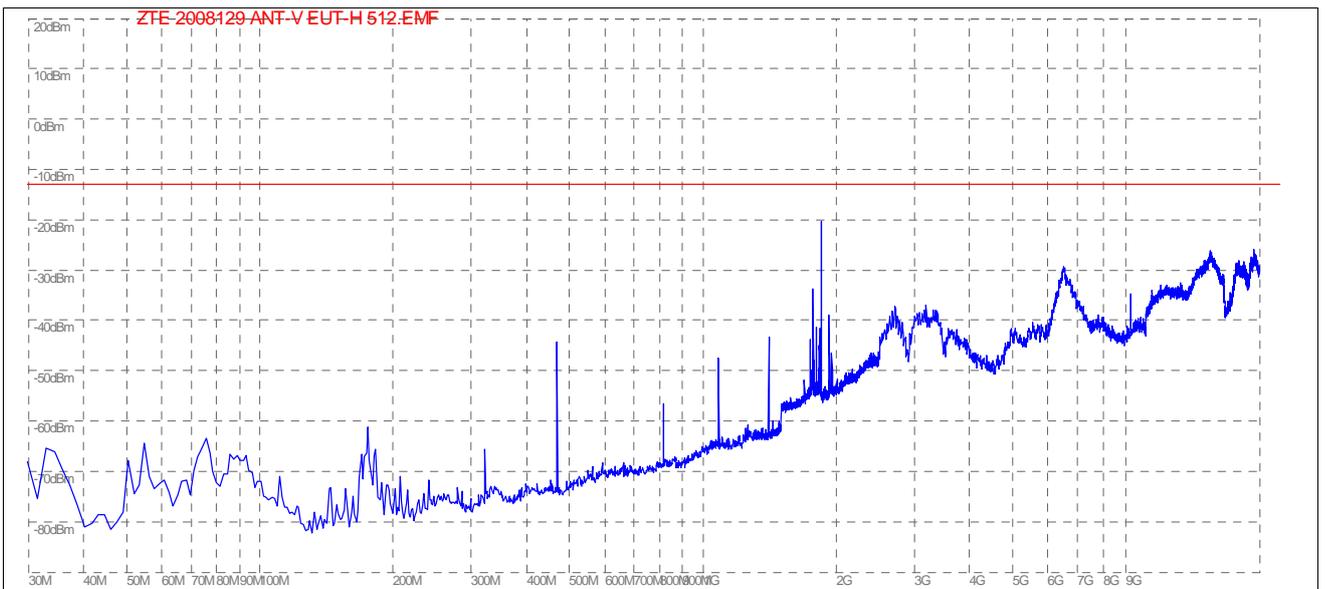
(Plot C.1: GSM 850MHz Channel = 251, Test Antenna Horizontal)



(Plot C.2: GSM 850MHz Channel = 251, Test Antenna Vertical)



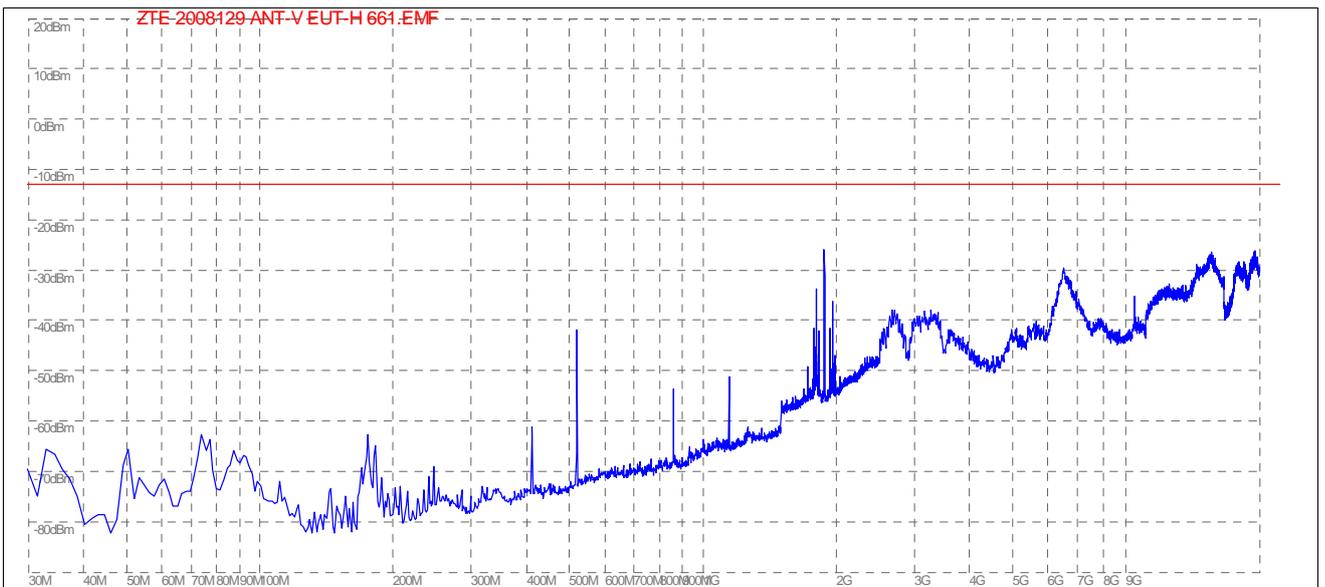
(Plot D.1: GSM 1900MHz Channel = 512, Test Antenna Horizontal)



(Plot D.2: GSM 1900MHz Channel = 512, Test Antenna Vertical)



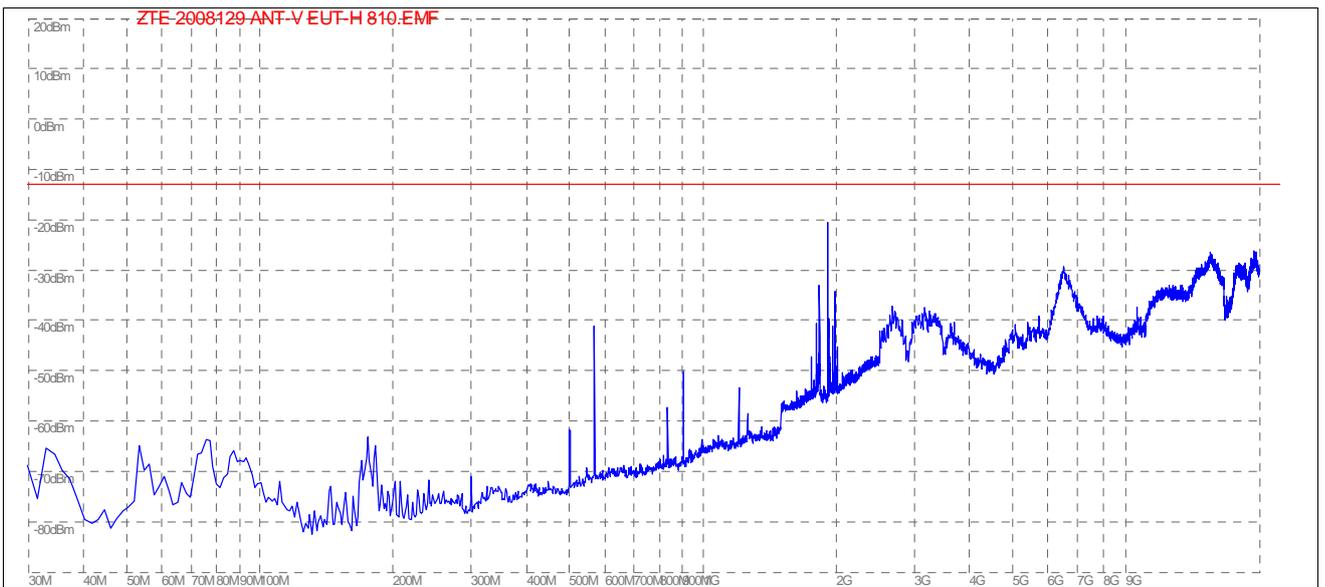
(Plot E.1: GSM 1900MHz Channel = 661, Test Antenna Horizontal)



(Plot E.2: GSM 1900MHz Channel = 661, Test Antenna Vertical)



(Plot F.1: GSM 1900MHz Channel = 810, Test Antenna Horizontal)



(Plot F.2: GSM 1900MHz Channel = 810, Test Antenna Vertical)

\*\* END OF REPORT \*\*