

7.7 CONDUCTED BAND EDGE

7.7.1 Applicable Standard

According to FCC Part 2.1051 and FCC Part 22.917(a) and 24.238(a) and FCC KDB 971168 D01 v03 Section6.0

7.7.2 Conformance Limit

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least $43 + 10 \log (P) dB$.

7.7.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.7.4 Test Setup

Please refer to Section 6.1 of this test report.

7.7.5 Test Procedure

The testing follows FCC KDB 971168 v03 Section 6.0.

The EUT was connected to Spectrum Analyzer and Base Station via power divider.

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.

The path loss was compensated to the results for each measurement.

The band edges of low and high channels for the highest RF powers were measured.

The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

The limit line is derived from 43 + 10log(P) dB below the transmitter power P(Watts)

= P(W) - [43 + 10log(P)] (dB)

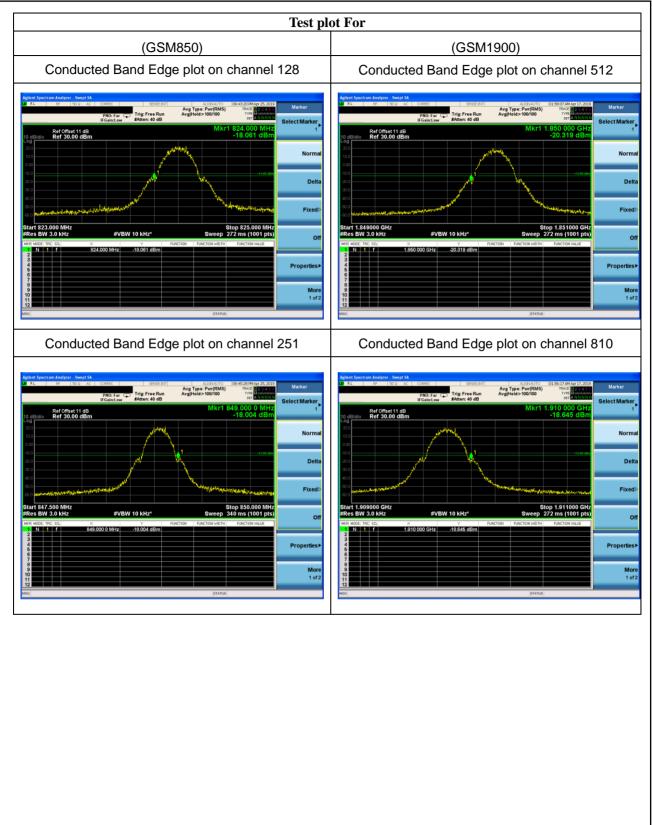
 $= [30 + 10\log(P)] (dBm) - [43 + 10\log(P)] (dB)$

= -13dBm.

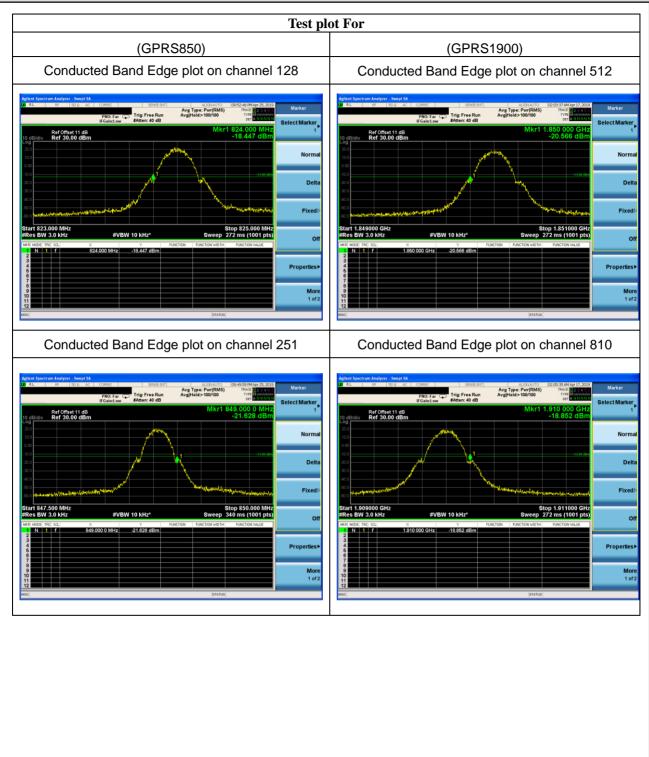
7.7.6 Test Results

EUT:	Mobile Phone	Model No.:	V5		
Temperature:	20 °C	Relative Humidity:	48%		
Test Mode:	GSM/GPRS/EGPRS 850/ GSM/GPRS/EGPRS 1900/ UMTS band II/ UMTS band V	Test By:	Allen Liu		
Results: PASS					

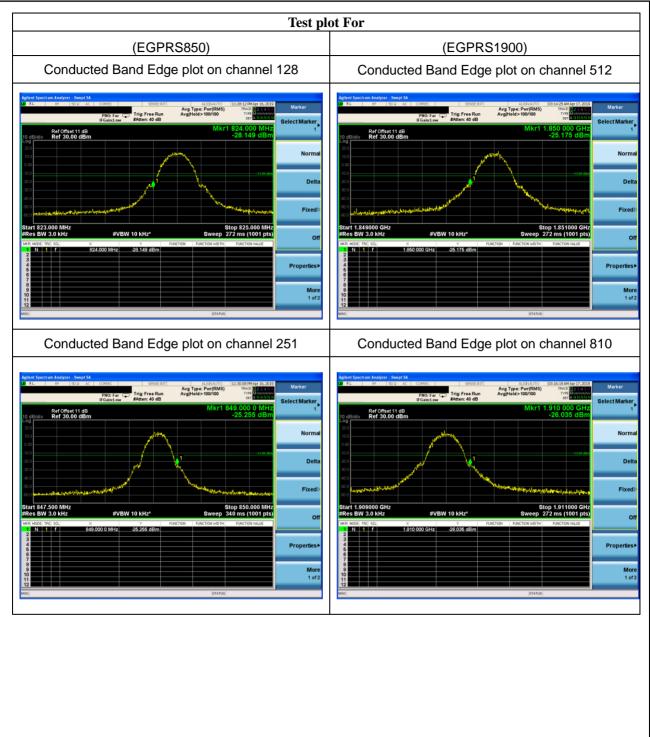














Certificate #4298	Report No.:S19040400602004				
Test plot For					
UMTS Band V	UMTS Band II				
Conducted Band Edge plot on channel 4132	Conducted Band Edge plot on channel 9262				
Agineti Spectrum Analyzer, Swept M. Description Description Description Peak Search Val. L. re 100 Ad. COMEC Spectrum Argin Ad. Description Peak Search Val. L. re 100 Ad. COMEC Spectrum Argin Ad. Description Peak Search Val. Ref Addition Mix T. 824 0000 MHz Fragmentation Next Peak Next Peak 10 dDiddi Ref 40.00 dBm	Applient Spectrum Andyor: Newp1 SA Control Contro Control Control <				
Conducted Band Edge plot on channel 4233	Conducted Band Edge plot on channel 9538				
100 1 100	100 Image: Constraint of the constra				
Start 849.0000 MHz Stop 850.0000 MHz 1 of 2 #Res BW 100 kHz #VBW 100 kHz* Sweep 1.00 ms (1001 pts)	Start 1,910000 GHz More More #Res BW 100 kHz \$VBW 100 kHz* \$weep 1.00 ms (1001 pts)				



7.8 CONDUCTED SPURIOUS EMISSION AT ANTENNA TERMINAL

7.8.1 Applicable Standard

According to FCC Part 2.1051 and FCC Part 22.917(a) and Part 24.238(a) and FCC KDB 971168 D01 v03 Section6.0

7.8.2 Conformance Limit

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least 43 + 10 log (P) dB. It is measured by means of a calibrated spectrum analyzer and scanned from 30 MHz up to a frequency

It is measured by means of a calibrated spectrum analyzer and scanned from 30 MHz up to a frequency including its 10th harmonic.

7.8.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.8.4 Test Setup

Please refer to Section 6.1 of this test report.

7.8.5 Test Procedure

The testing follows FCC KDB 971168 v03 Section 6.0.

The EUT was connected to Spectrum Analyzer and Base Station via power divider.

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.

The path loss was compensated to the results for each measurement.

The middle channel for the highest RF power within the transmitting frequency was measured.

The conducted spurious emission for the whole frequency range was taken.

The RF fundamental frequency should be excluded against the limit line in the operating frequency band. The limit line is derived from 43 + 10log(P) dB below the transmitter power P(Watts)

= P(W) - [43 + 10log(P)] (dB)

 $= [30 + 10\log(P)] (dBm) - [43 + 10\log(P)] (dB)$ = -13dBm.

7.8.6 Test Results

EUT:	Mobile Phone	Model No.:	V5		
Temperature:	20 °C	Relative Humidity:	48%		
Test Mode:	GSM/GPRS/EGPRS 850/ GSM/GPRS/EGPRS 1900/ UMTS band II/ UMTS band V	Test By:	Allen Liu		
Results: PASS					



