## 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 Section6.0

Report No.: S19012403603004

#### 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 + 10log(P)] (dBm) [43 + 10log(P)] (dB)
- = -13dBm.

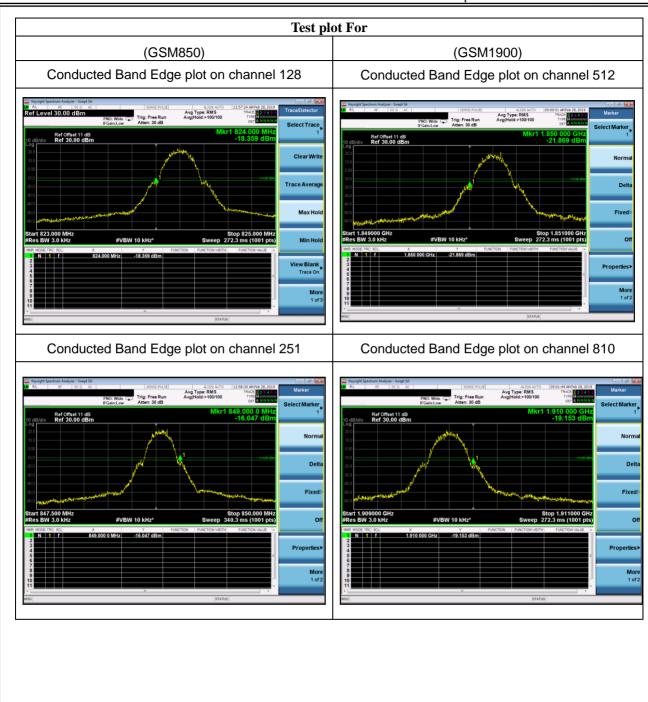
### 7.7.6 Test Results

EUT:	Mobile Phone	Model No.:	AX1080	
Temperature:	20 ℃	Relative Humidity:	48%	
Test Mode:	GSM/GPRS/EGPRS 850/ GSM/GPRS/EGPRS 1900/ UMTS band II/ UMTS band V/ UMTS band IV	Test By:	Cheng Jiawen	
Results: PASS				

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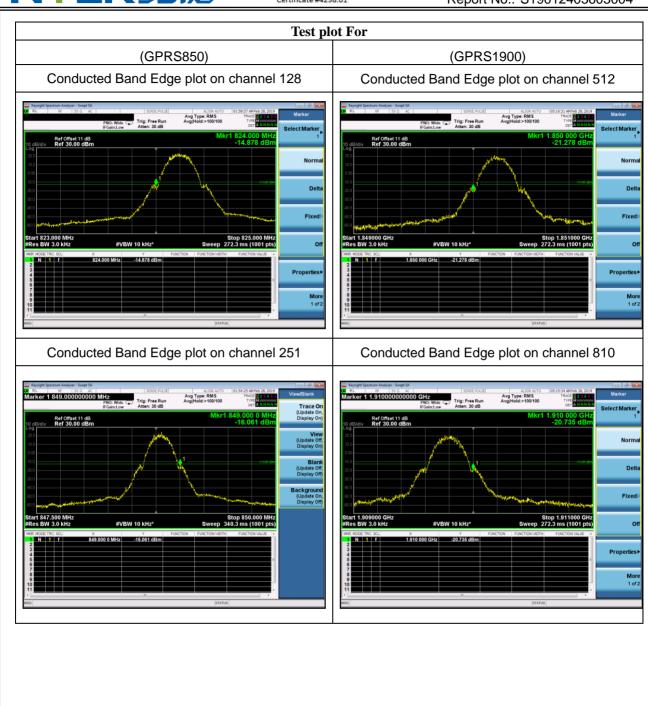




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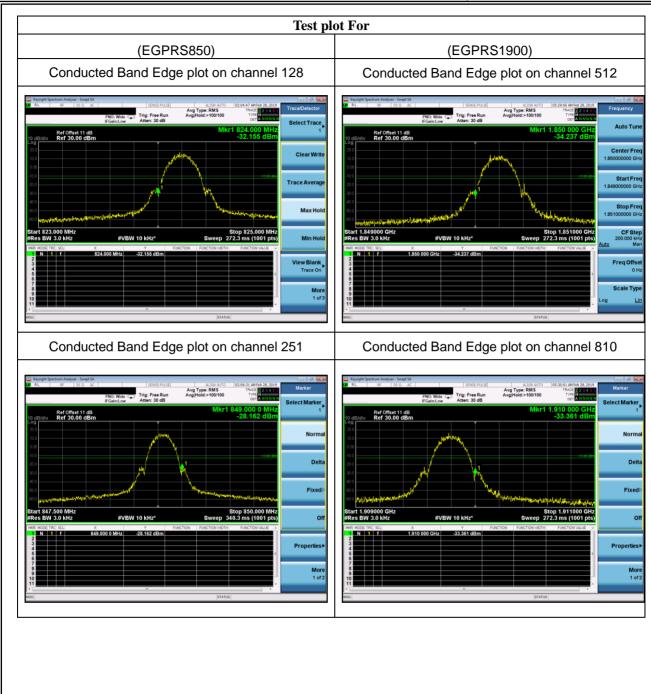




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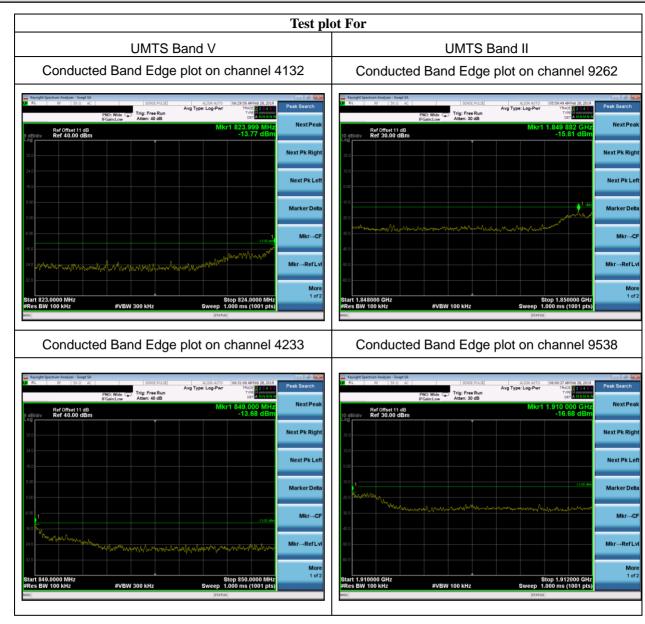




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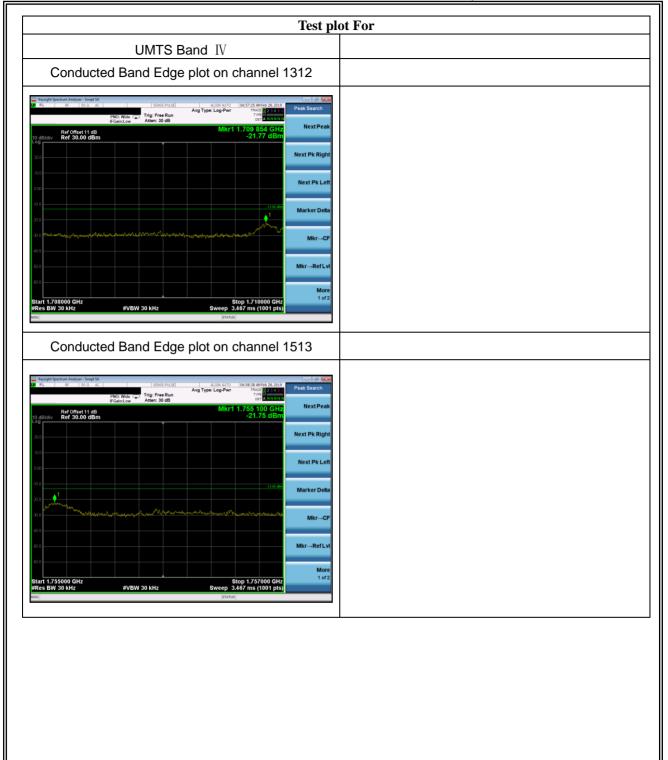




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#### 7.8 CONDUCTED SPURIOUS EMISSION AT ANTENNA TERMINAL

#### 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 Section6.0

Report No.: S19012403603004

#### 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 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 + 10log(P)] (dBm) [43 + 10log(P)] (dB)
- = -13dBm.

#### 7.8.6 Test Results

EUT:	Mobile Phone	Model No.:	AX1080
Temperature:	<b>20</b> ℃	Relative Humidity:	48%
Test Mode:	GSM/GPRS/EGPRS 850/ GSM/GPRS/EGPRS 1900/ UMTS band II/ UMTS band V/ UMTS band IV	Test By:	Cheng Jiawen
Results: PASS			

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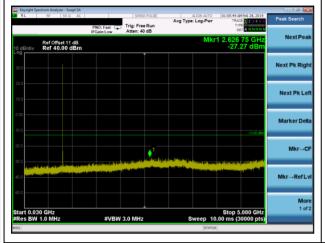


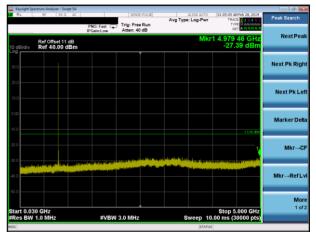
#### **Test Plot**

GSM850

GSM850

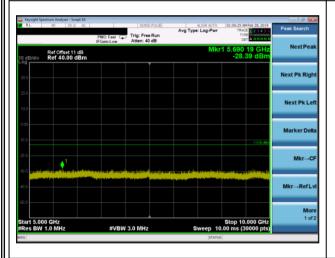
Conducted Emission Transmitting Mode CH 128 30MHz – 5GHz Conducted Emission Transmitting Mode CH 190 30MHz – 5GHz

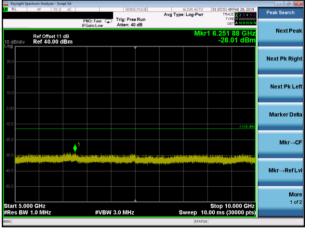




Conducted Emission Transmitting Mode CH 128 5GHz – 10GHz

Conducted Emission Transmitting Mode CH 190 5GHz – 10GHz





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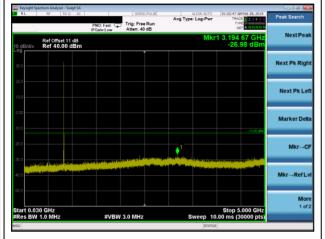


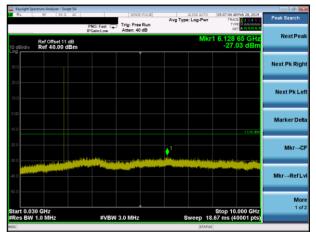
#### **Test Plot**

GSM850

GSM1900

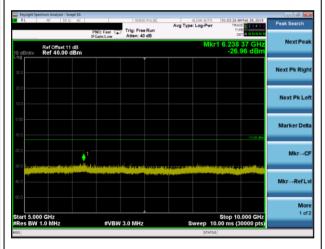
Conducted Emission Transmitting Mode CH 251 30MHz – 5GHz Conducted Emission Transmitting Mode CH 512 30MHz – 10GHz

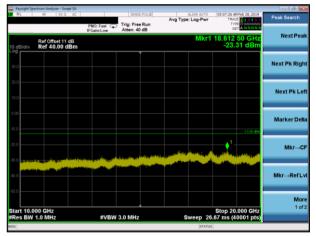




Conducted Emission Transmitting Mode CH 251 5GHz – 10GHz

Conducted Emission Transmitting Mode CH 512 10GHz – 20GHz





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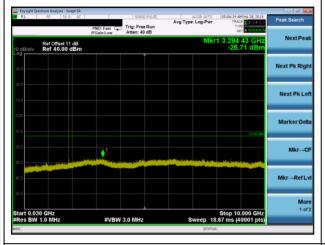


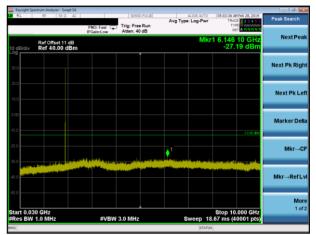
#### **Test Plot**

GSM1900

GSM1900

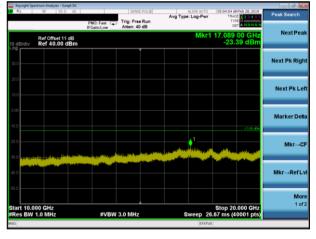
Conducted Emission Transmitting Mode CH 661 30MHz – 10GHz Conducted Emission Transmitting Mode CH 810 30MHz – 10GHz





Conducted Emission Transmitting Mode CH 661 10GHz – 20GHz Conducted Emission Transmitting Mode CH 810 10GHz – 20GHz





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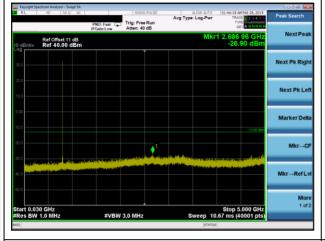
## **Test Plot**

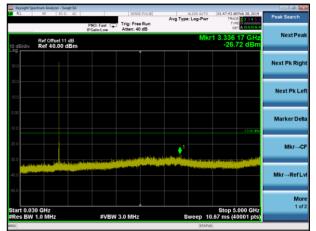
GPRS850

GPRS850

Conducted Emission Transmitting Mode CH 128 30MHz - 5GHz

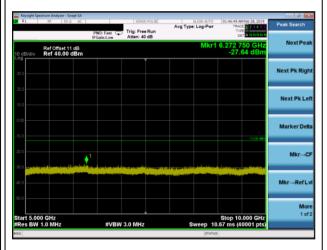
Conducted Emission Transmitting Mode CH 190 30MHz - 5GHz

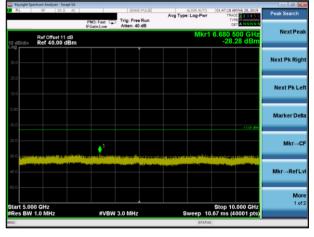




Conducted Emission Transmitting Mode CH 128 5GHz - 10GHz

Conducted Emission Transmitting Mode CH 190 5GHz – 10GHz





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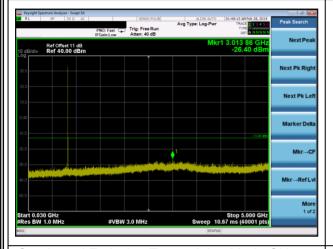


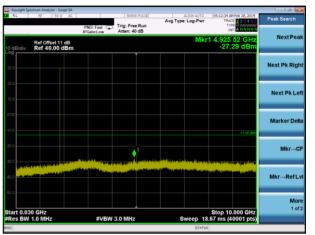
## **Test Plot**

GPRS850 **GPRS1900** 

Conducted Emission Transmitting Mode CH 251 30MHz - 5GHz

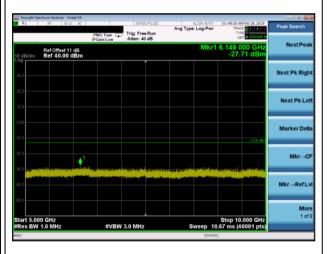
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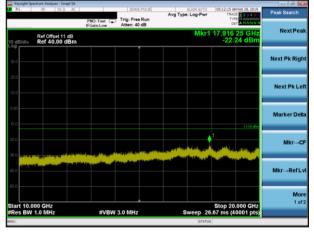




Conducted Emission Transmitting Mode CH 251 5GHz - 10GHz

Conducted Emission Transmitting Mode CH 512 10GHz - 20GHz





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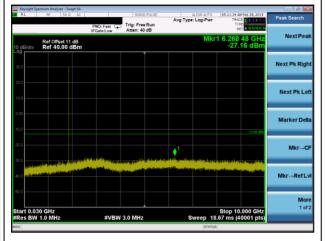


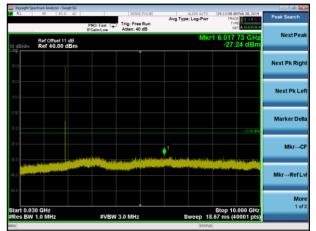
## **Test Plot**

**GPRS1900** 

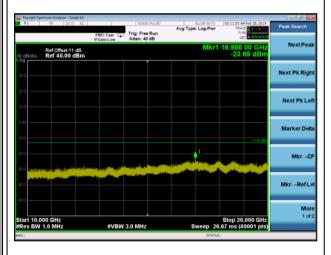
GPRS1900

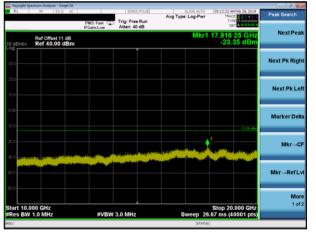
Conducted Emission Transmitting Mode CH 661 30MHz – 10GHz Conducted Emission Transmitting Mode CH 810 30MHz – 10GHz





Conducted Emission Transmitting Mode CH 661 10GHz – 20GHz Conducted Emission Transmitting Mode CH 810 10GHz – 20GHz





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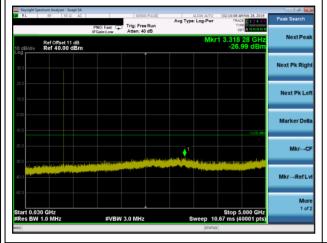


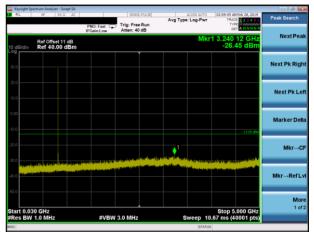
#### **Test Plot**

EGPRS850

EGPRS850

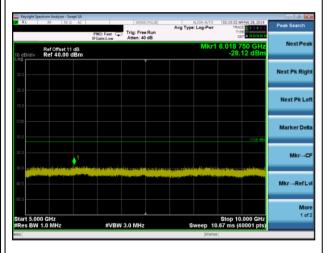
Conducted Emission Transmitting Mode CH 128 30MHz – 5GHz Conducted Emission Transmitting Mode CH 190 30MHz – 5GHz

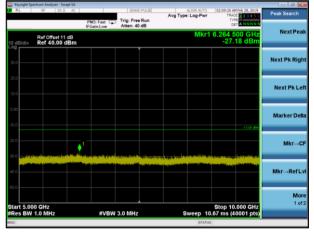




Conducted Emission Transmitting Mode CH 128 5GHz – 10GHz

Conducted Emission Transmitting Mode CH 190 5GHz – 10GHz





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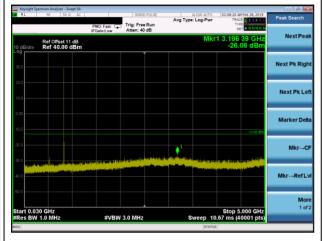


#### **Test Plot**

EGPRS850

EGPRS1900

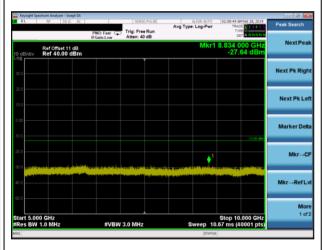
Conducted Emission Transmitting Mode CH 251 30MHz – 5GHz Conducted Emission Transmitting Mode CH 512 30MHz – 10GHz

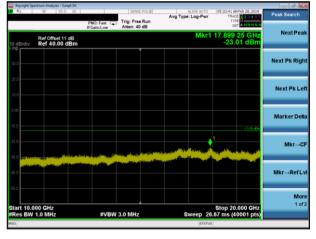




Conducted Emission Transmitting Mode CH 251 5GHz – 10GHz

Conducted Emission Transmitting Mode CH 512 10GHz – 20GHz





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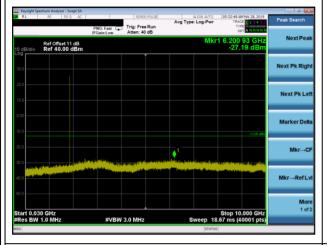


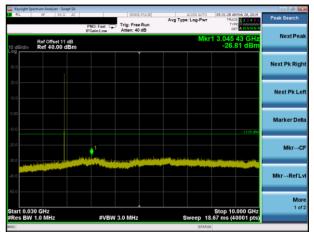
#### **Test Plot**

**EGPRS1900** 

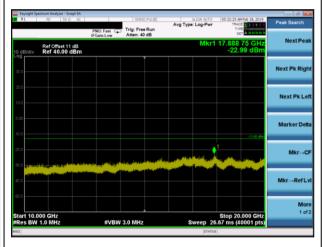
EGPRS1900

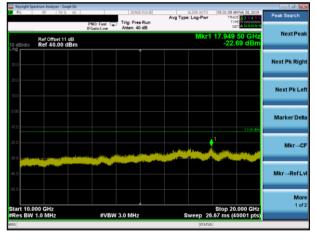
Conducted Emission Transmitting Mode CH 661 30MHz – 10GHz Conducted Emission Transmitting Mode CH 810 30MHz – 10GHz





Conducted Emission Transmitting Mode CH 661 10GHz – 20GHz Conducted Emission Transmitting Mode CH 810 10GHz – 20GHz





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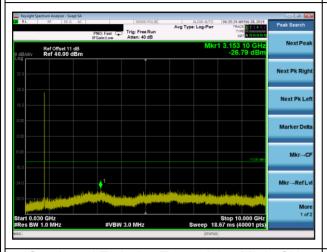
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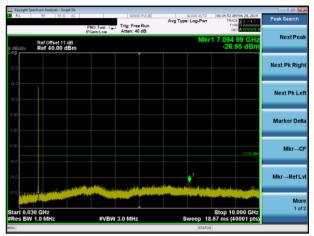
### UMTS band V

Conducted Emission Transmitting Mode CH 4132 30MHz – 5GHz UMTS band V

Conducted Emission Transmitting Mode CH 4183

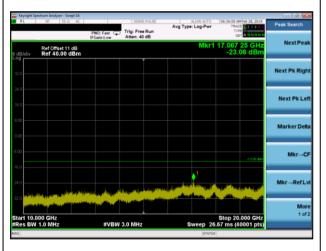
30MHz – 5GHz

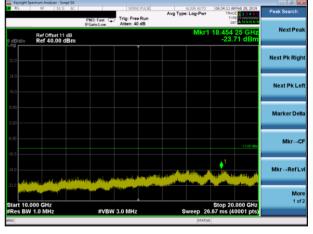




Conducted Emission Transmitting Mode CH 4132 5GHz – 10GHz

Conducted Emission Transmitting Mode CH 4183 5GHz – 10GHz





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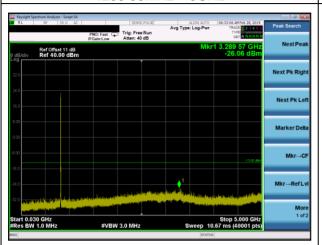




## **Test Plot**

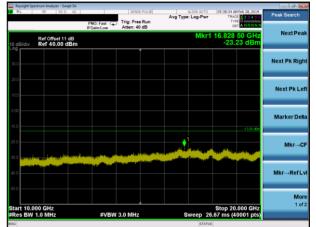
## UMTS band V

Conducted Emission Transmitting Mode CH 4233 30MHz - 5GHz



UMTS band II

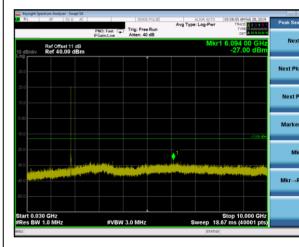
Conducted Emission Transmitting Mode CH 9262 30MHz - 10GHz

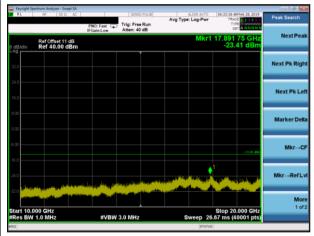


Conducted Emission Transmitting Mode CH









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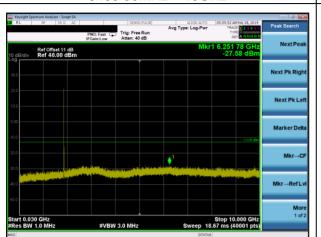




#### **Test Plot**

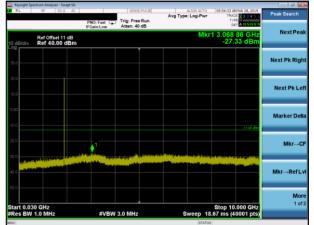
### UMTS band II

Conducted Emission Transmitting Mode CH 9400 30MHz - 10GHz

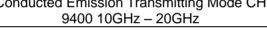


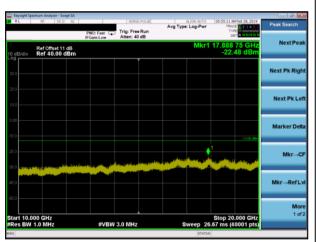
UMTS band II

Conducted Emission Transmitting Mode CH 9538 30MHz - 10GHz

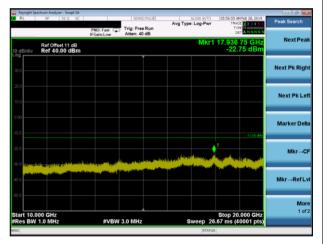


Conducted Emission Transmitting Mode CH





Conducted Emission Transmitting Mode CH 9538 10GHz - 20GHz



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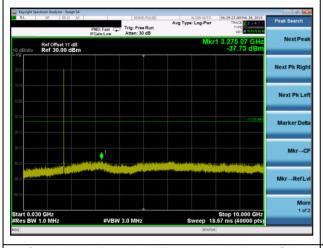
# **Test Plot**

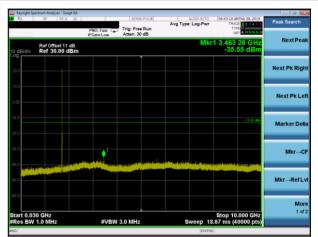
UMTS band  ${\rm IV}$ 

Conducted Emission Transmitting Mode CH 1312 30MHz – 10GHz UMTS band IV

Conducted Emission Transmitting Mode CH 1412

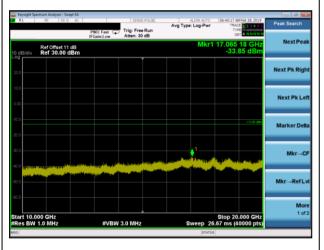
30MHz – 10GHz

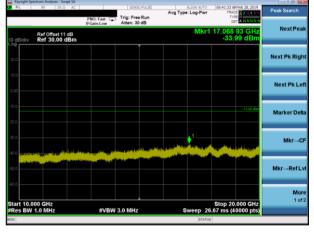




Conducted Emission Transmitting Mode CH 1312 10GHz – 20GHz

Conducted Emission Transmitting Mode CH 1412 10GHz – 20GHz



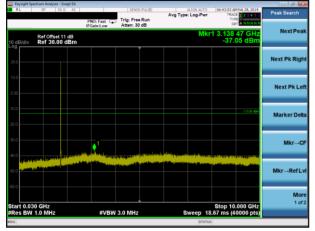


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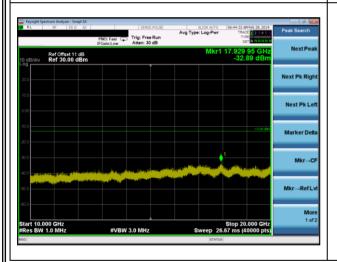




# UMTS band IV Conducted Emission Transmitting Mode CH 1513 30MHz – 10GHz



Conducted Emission Transmitting Mode CH 1513 10GHz – 20GHz



**END OF REPORT** 

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