

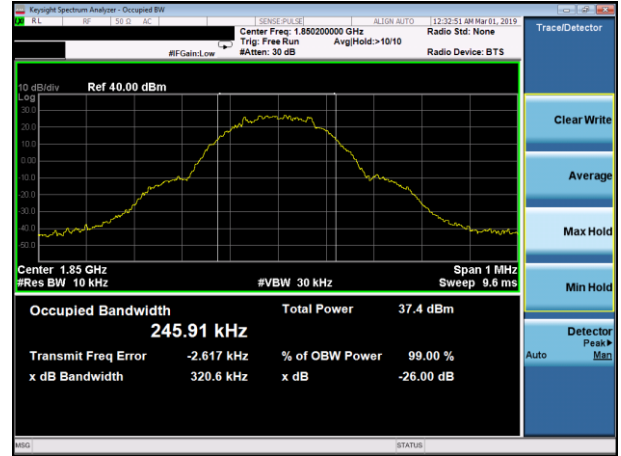
Test plot

(GSM850)

(GSM1900)

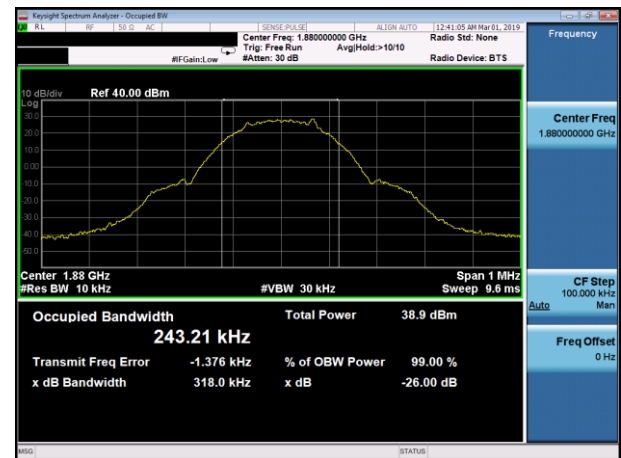
-26dB&99% Bandwidth plot on channel 128

-26dB&99% Bandwidth plot on channel 512



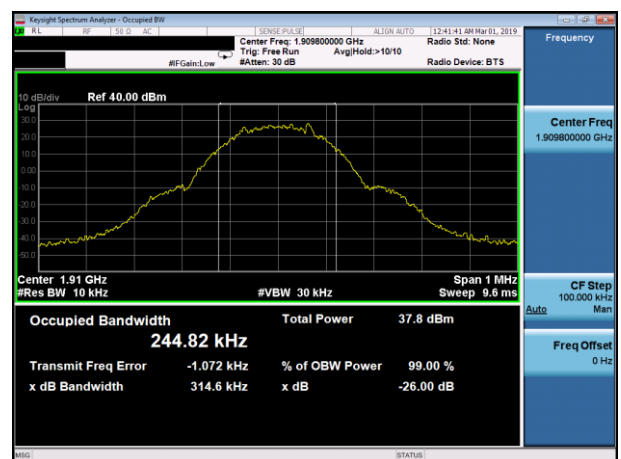
-26dB&99% Bandwidth plot on channel 190

-26dB&99% Bandwidth plot on channel 661



-26dB&99% Bandwidth plot on channel 251

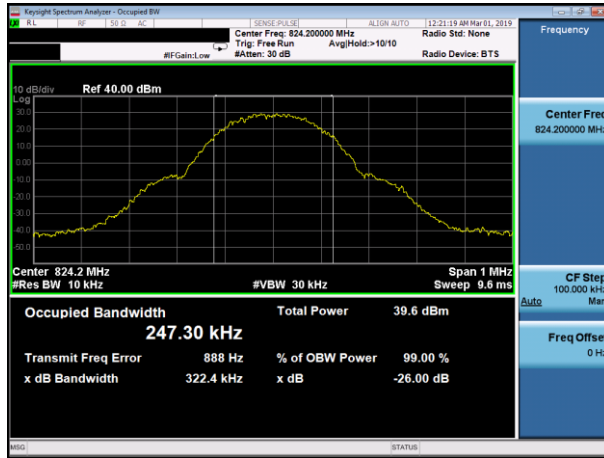
-26dB&99% Bandwidth plot on channel 810



Test plot

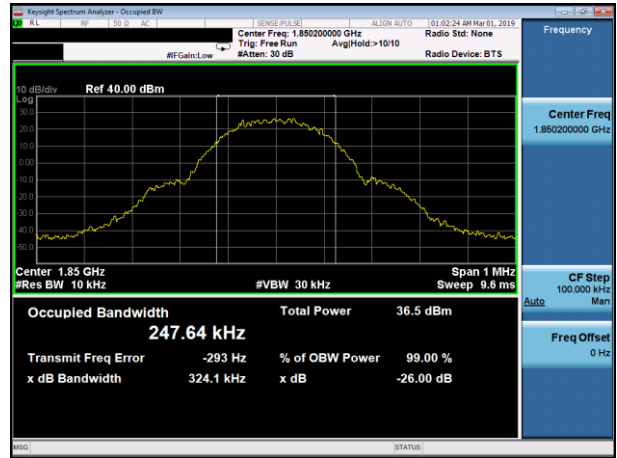
(GPRS850)

-26dB&99% Bandwidth plot on channel 128

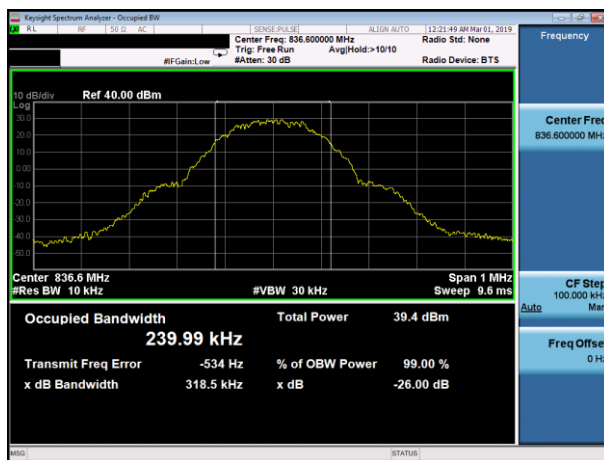


(GPRS1900)

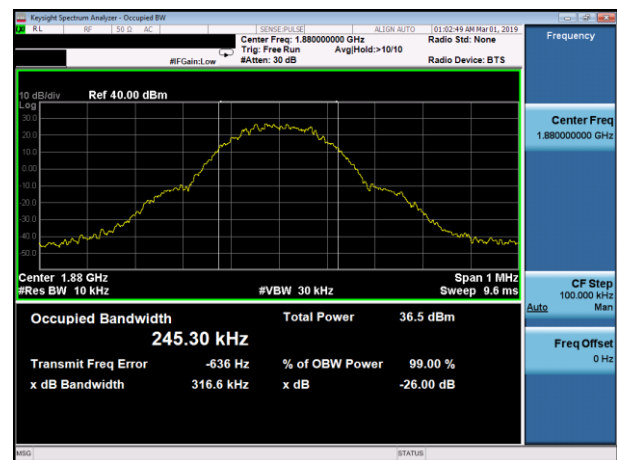
-26dB&99% Bandwidth plot on channel 512



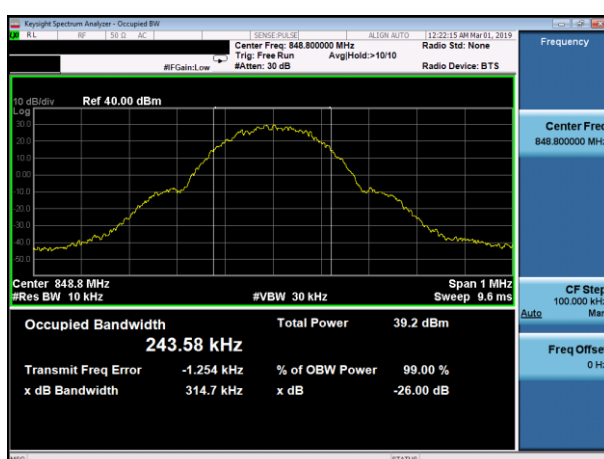
-26dB&99% Bandwidth plot on channel 190



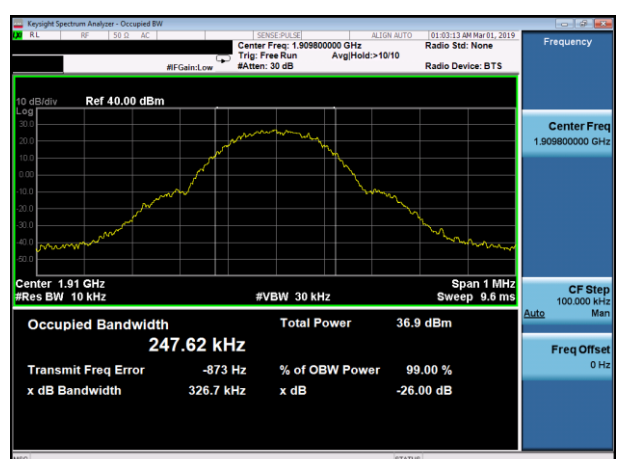
-26dB&99% Bandwidth plot on channel 661



-26dB&99% Bandwidth plot on channel 251



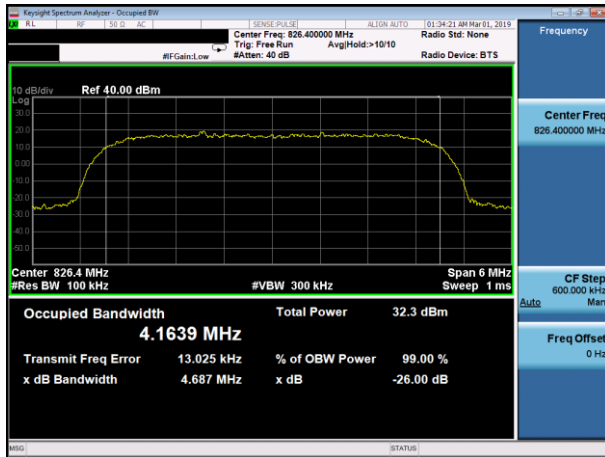
-26dB&99% Bandwidth plot on channel 810



Test plot

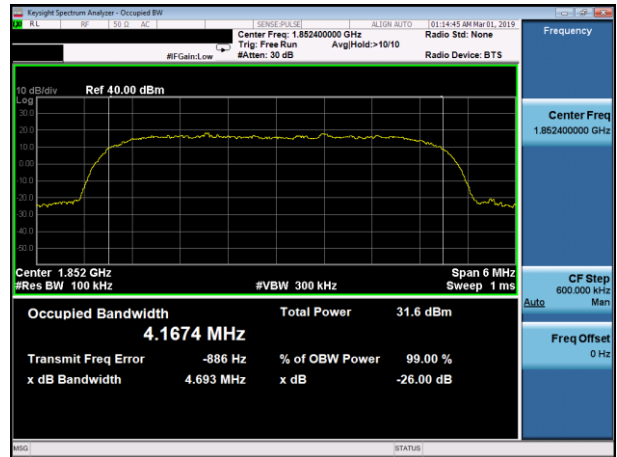
UMTS Band V

-26dB&99% Bandwidth plot on channel 4132

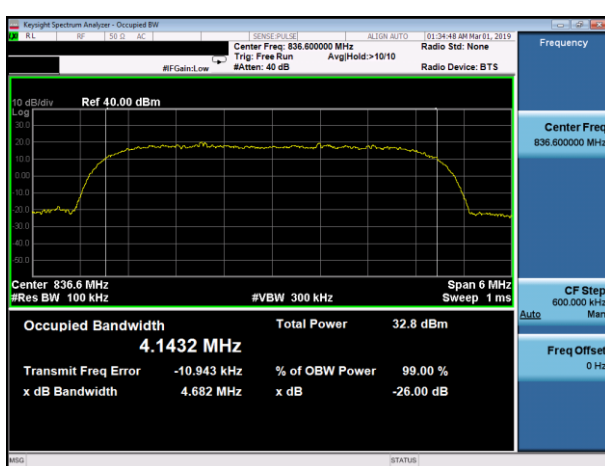


UMTS Band II

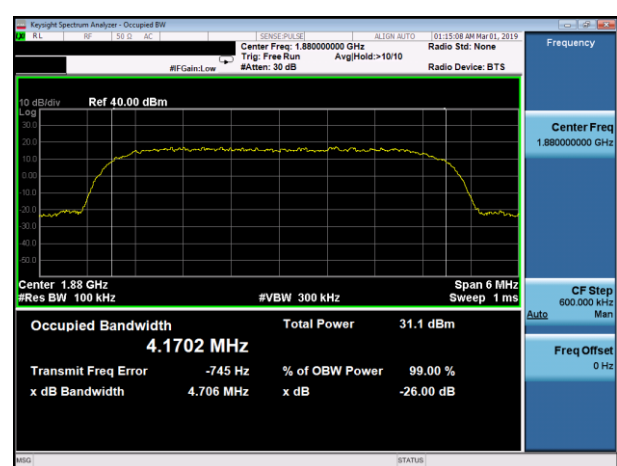
-26dB&99% Bandwidth plot on channel 9262



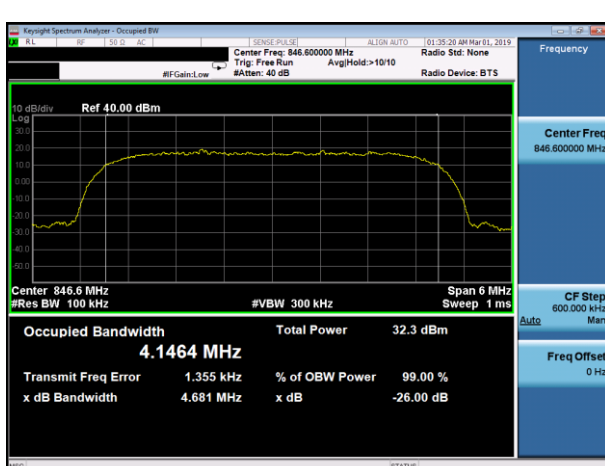
-26dB&99% Bandwidth plot on channel 4183



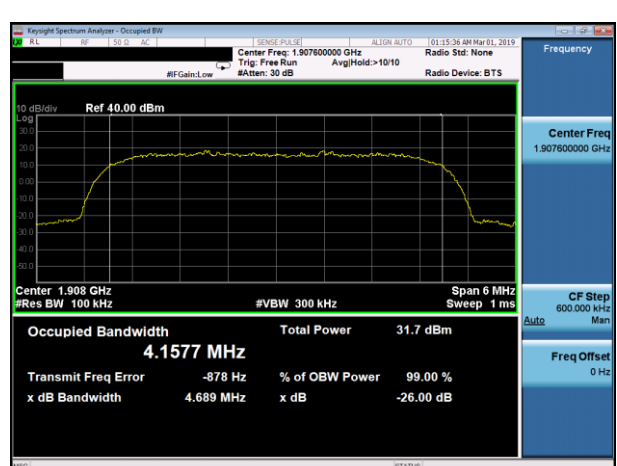
-26dB&99% Bandwidth plot on channel 9400



-26dB&99% Bandwidth plot on channel 4233



-26dB&99% Bandwidth plot on channel 9538



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

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:	smartphone	Model No.:	ELEMENT MAX
Temperature:	20 °C	Relative Humidity:	48%
Test Mode:	GSM/GPRS 850/ GSM/GPRS 1900/ UMTS band II/ UMTS band V	Test By:	Allen Liu
Results: PASS			

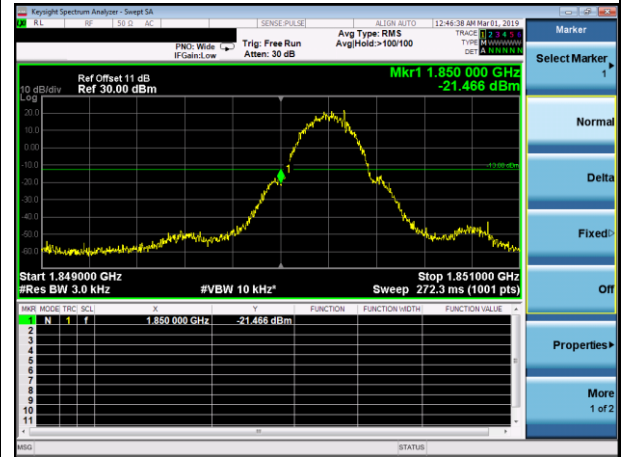
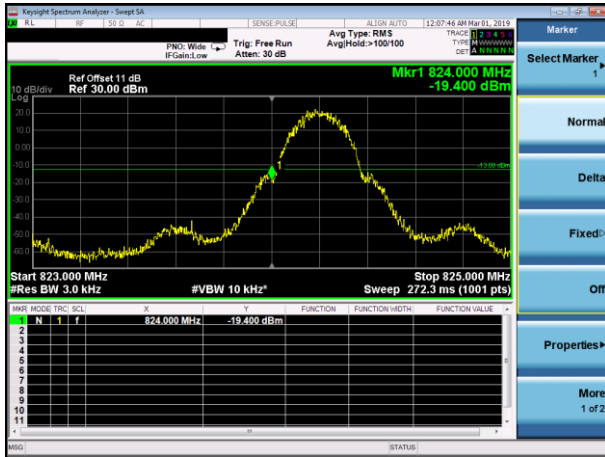
Test plot For

(GSM850)

(GSM1900)

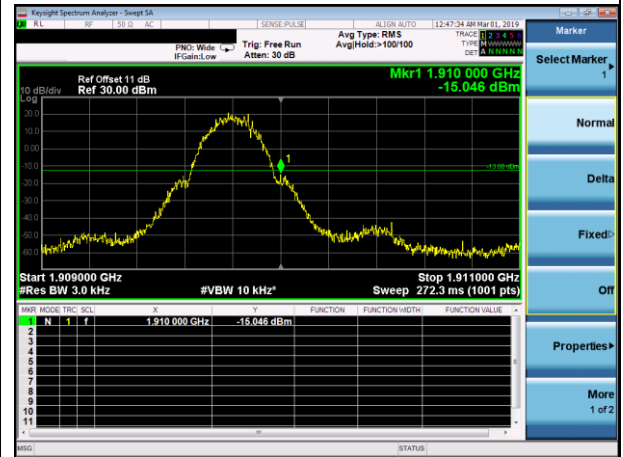
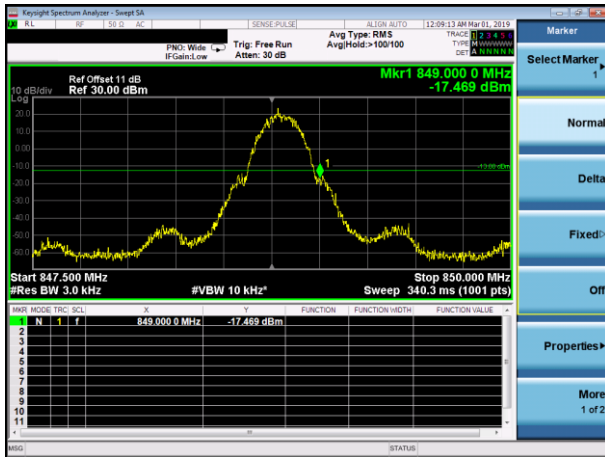
Conducted Band Edge plot on channel 128

Conducted Band Edge plot on channel 512



Conducted Band Edge plot on channel 251

Conducted Band Edge plot on channel 810



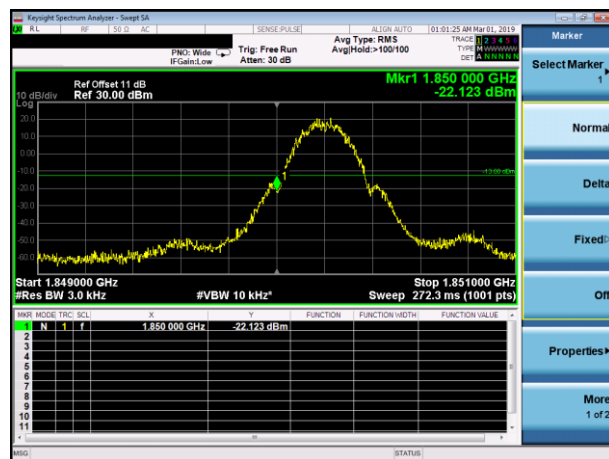
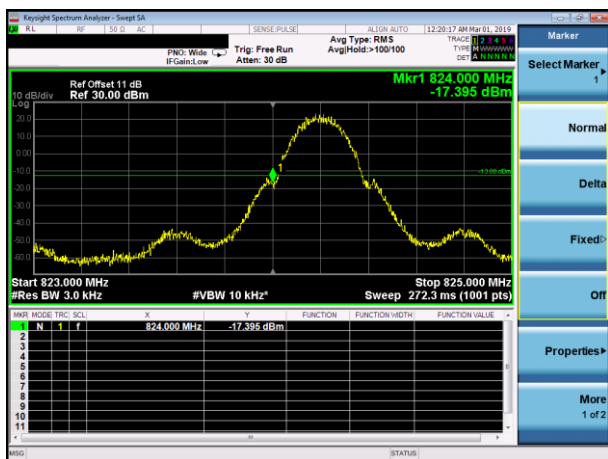
Test plot For

(GPRS850)

(GPRS1900)

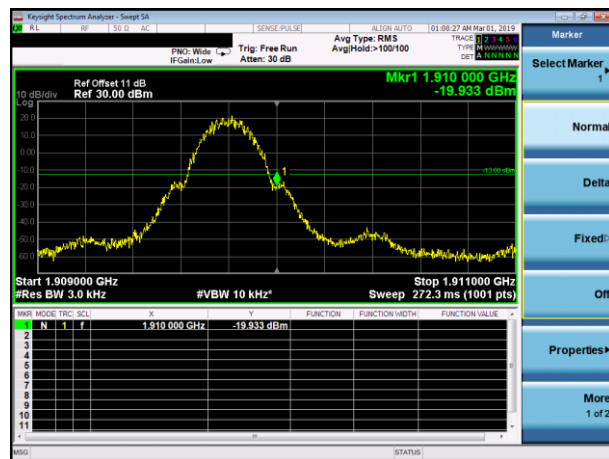
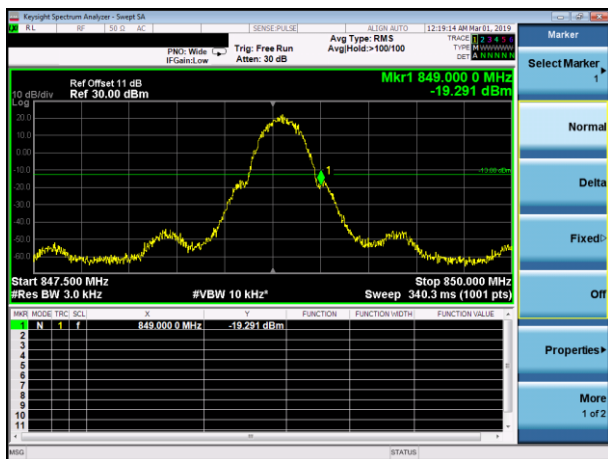
Conducted Band Edge plot on channel 128

Conducted Band Edge plot on channel 512



Conducted Band Edge plot on channel 251

Conducted Band Edge plot on channel 810



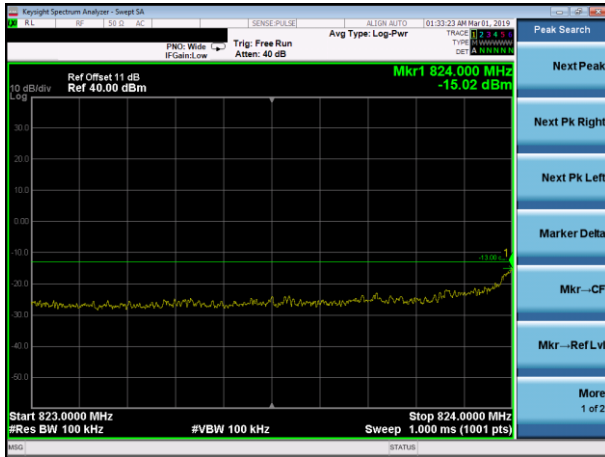
Test plot For

UMTS Band V

UMTS Band II

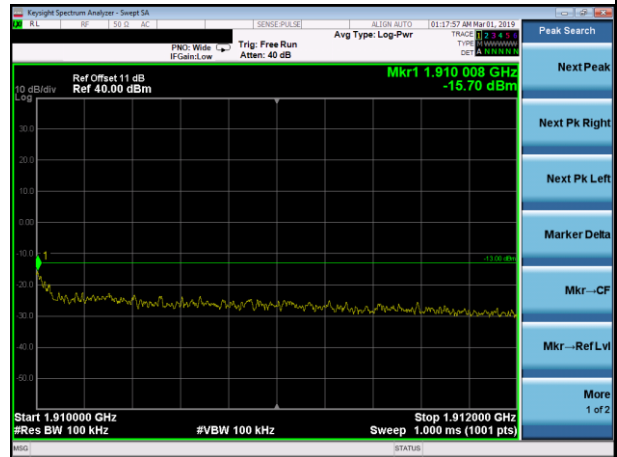
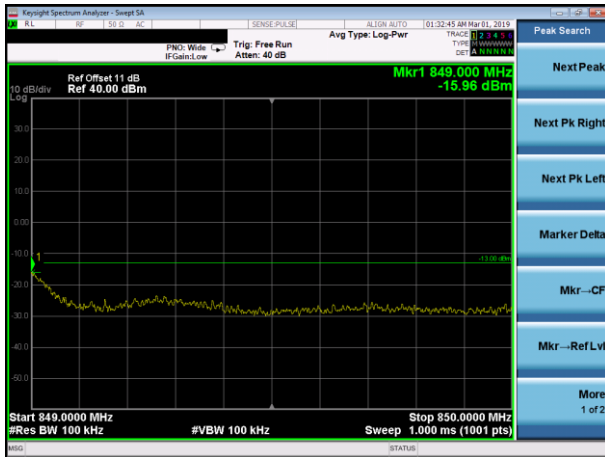
Conducted Band Edge plot on channel 4132

Conducted Band Edge plot on channel 9262



Conducted Band Edge plot on channel 4233

Conducted Band Edge plot on channel 9538



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

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 $43 + 10\log(P)$ dB below the transmitter power P(Watts)
 $= P(W) - [43 + 10\log(P)]$ (dB)
 $= [30 + 10\log(P)]$ (dBm) - $[43 + 10\log(P)]$ (dB)
 $= -13\text{dBm}$.

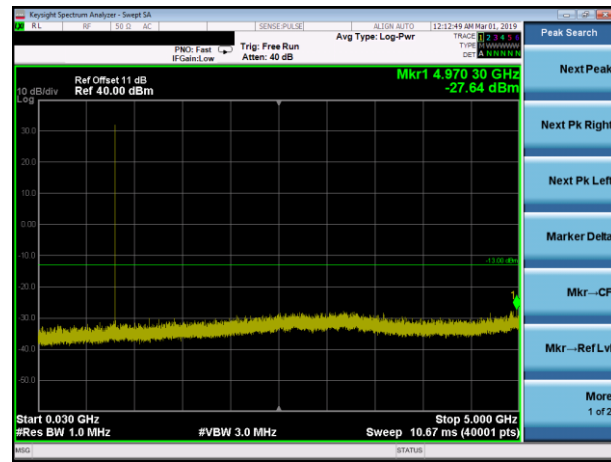
7.8.6 Test Results

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

Test Plot

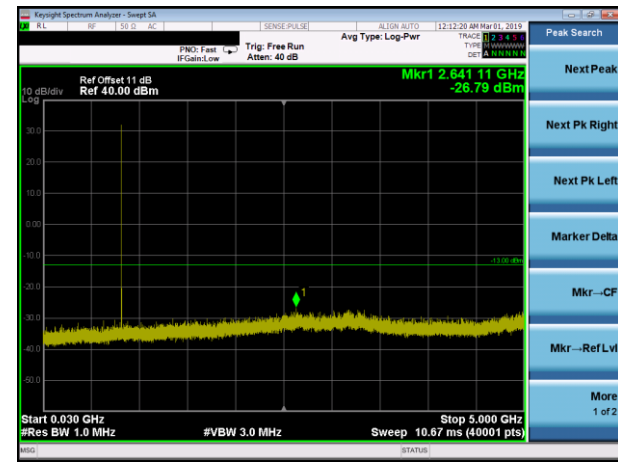
GSM850

Conducted Emission Transmitting Mode CH 128
30MHz – 5GHz

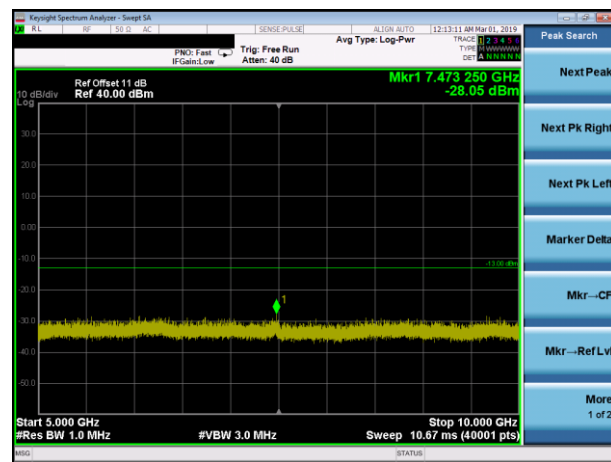


GSM850

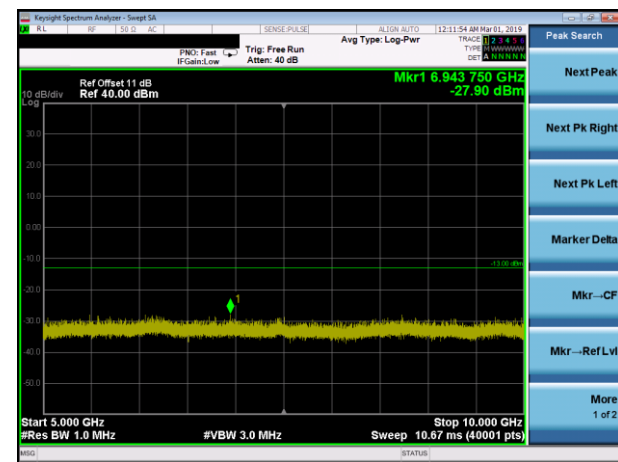
Conducted Emission Transmitting Mode CH 190
30MHz – 5GHz



Conducted Emission Transmitting Mode CH 128
5GHz – 10GHz



Conducted Emission Transmitting Mode CH 190
5GHz – 10GHz



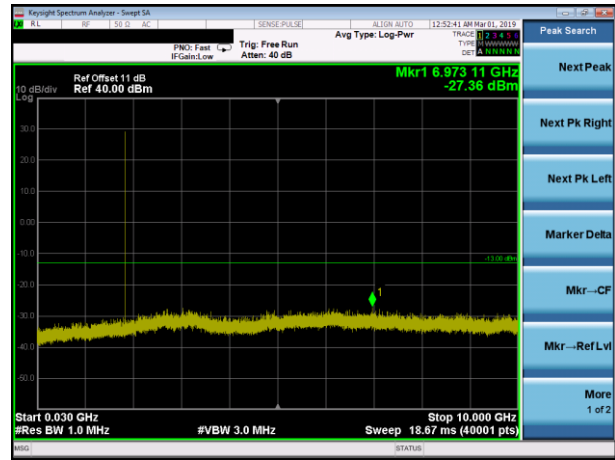
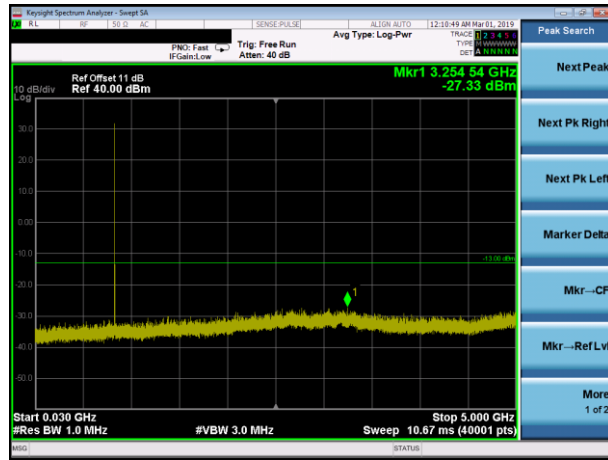
Test Plot

GSM850

GSM1900

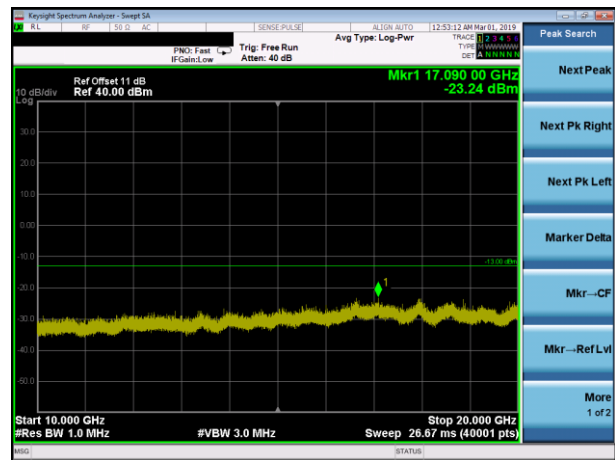
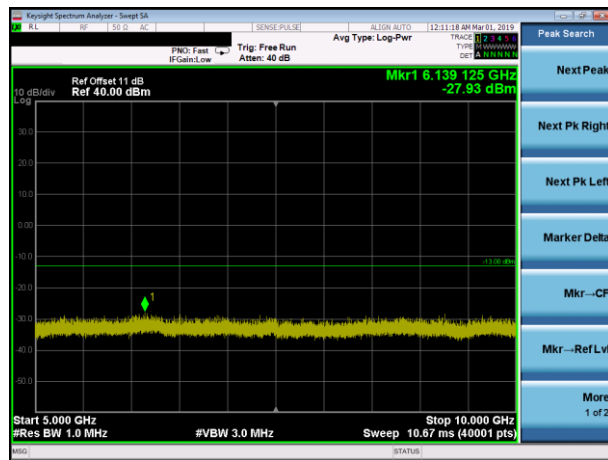
Conducted Emission Transmitting Mode CH 251
30MHz – 5GHz

Conducted Emission Transmitting Mode CH 512
30MHz – 10GHz



Conducted Emission Transmitting Mode CH 251
5GHz – 10GHz

Conducted Emission Transmitting Mode CH 512
10GHz – 20GHz



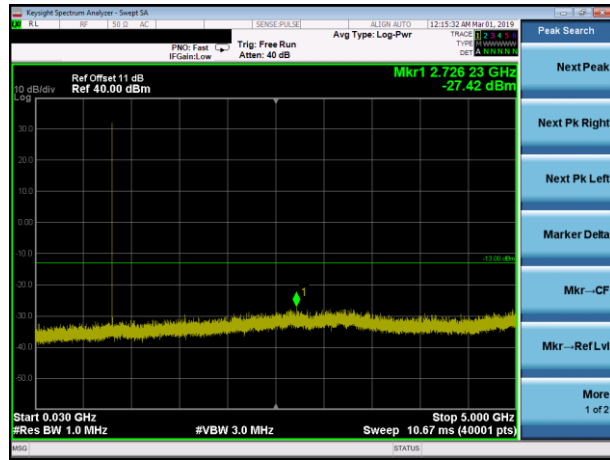
Test Plot

GSM1900	GSM1900
<p>Conducted Emission Transmitting Mode CH 661 30MHz – 10GHz</p>	<p>Conducted Emission Transmitting Mode CH 810 30MHz – 10GHz</p>
<p>Mkr1 5.633 39 GHz -27.40 dBm</p> <p>Start 0.030 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 18.67 ms (40001 pts)</p>	<p>Mkr1 3.193 23 GHz -26.54 dBm</p> <p>Start 0.030 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 18.67 ms (40001 pts)</p>
<p>Conducted Emission Transmitting Mode CH 661 10GHz – 20GHz</p>	<p>Conducted Emission Transmitting Mode CH 810 10GHz – 20GHz</p>
<p>Mkr1 17.087 00 GHz -26.521 dBm</p> <p>Start 10.000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz* Sweep 26.67 ms (40001 pts)</p>	<p>Mkr1 17.087 00 GHz -22.65 dBm</p> <p>Start 10.000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 26.67 ms (40001 pts)</p>

Test Plot

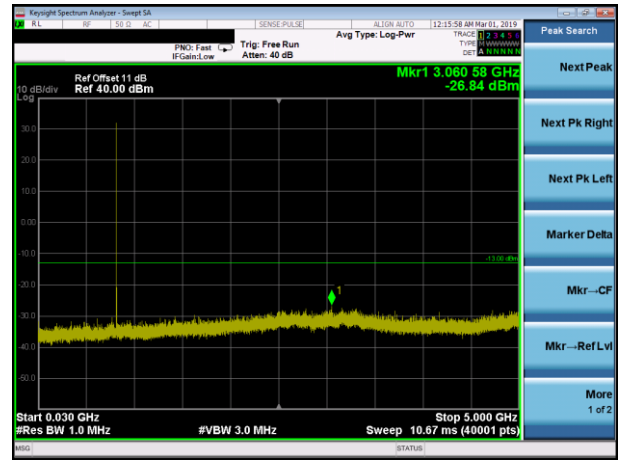
GPRS850

Conducted Emission Transmitting Mode CH 128
30MHz – 5GHz

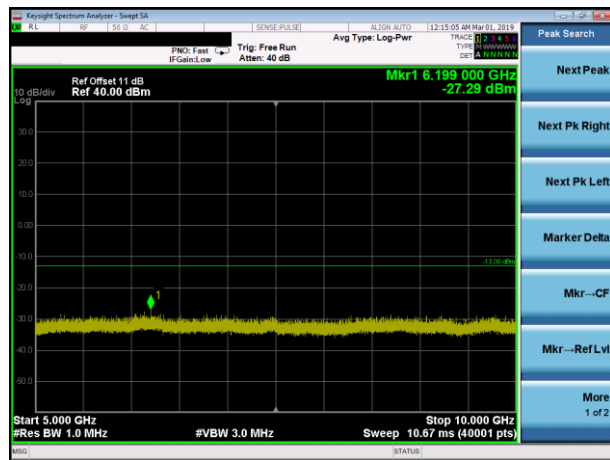


GPRS850

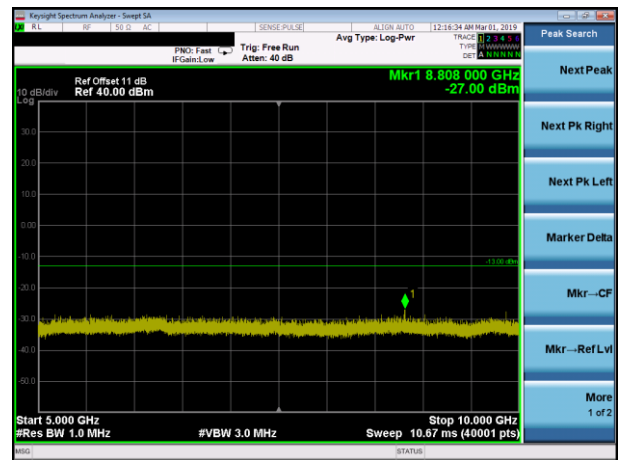
Conducted Emission Transmitting Mode CH 190
30MHz – 5GHz



Conducted Emission Transmitting Mode CH 128
5GHz – 10GHz



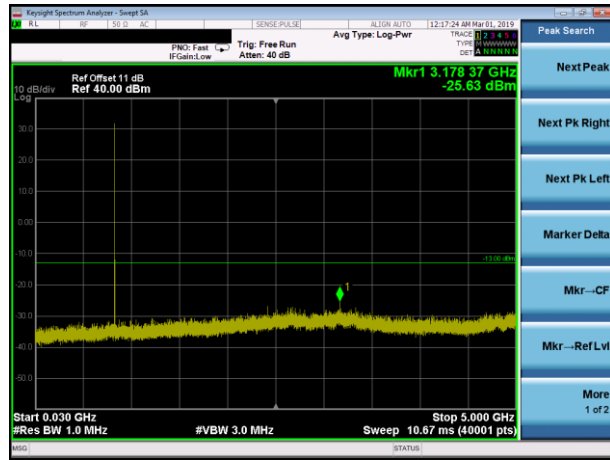
Conducted Emission Transmitting Mode CH 190
5GHz – 10GHz



Test Plot

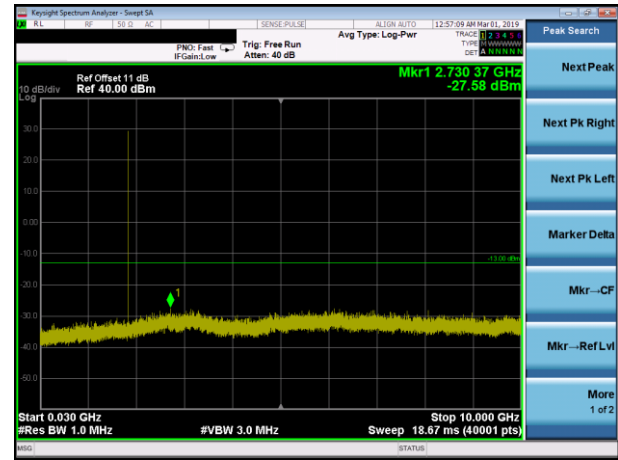
GPRS850

Conducted Emission Transmitting Mode CH 251
30MHz – 5GHz

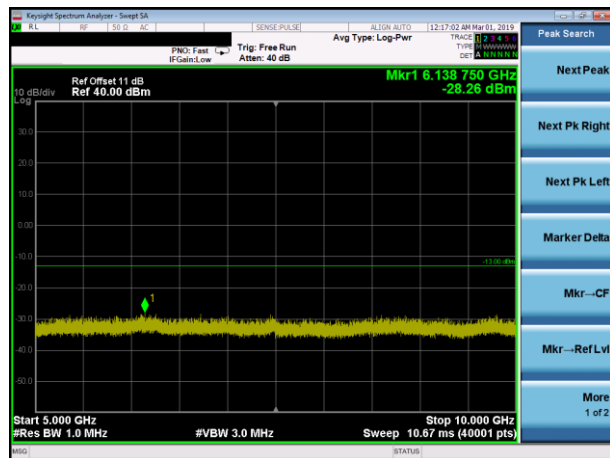


GPRS1900

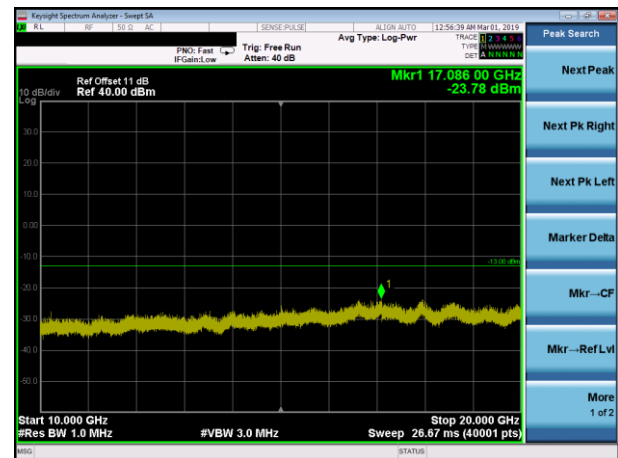
Conducted Emission Transmitting Mode CH 512
30MHz – 10GHz



Conducted Emission Transmitting Mode CH 251
5GHz – 10GHz



Conducted Emission Transmitting Mode CH 512
10GHz – 20GHz



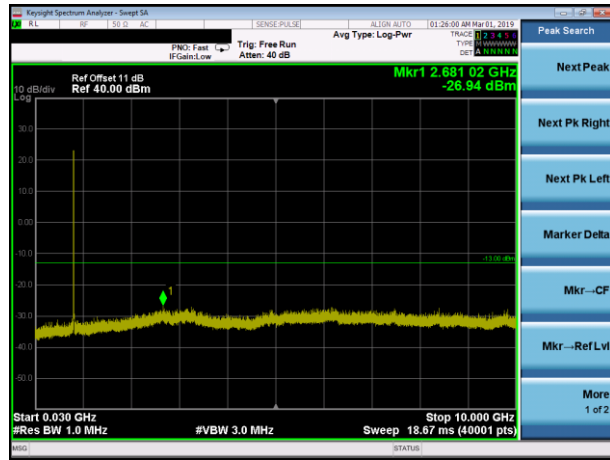
Test Plot

GPRS1900	GPRS1900
<p>Conducted Emission Transmitting Mode CH 661 30MHz – 10GHz</p>	<p>Conducted Emission Transmitting Mode CH 810 30MHz – 10GHz</p>
<p>KeySight Spectrum Analyzer - Swept SA PNO: Fast IF Gain: Low Trig: Free Run Avg Type: Log-Pwr 12:57:37 AM Mar 01, 2019 Mkr1 7.481 08 GHz -27.25 dBm Ref Offset 11 dB Ref 40.00 dBm Start 0.030 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 18.67 ms (40001 pts) Stop 10.000 GHz</p>	<p>KeySight Spectrum Analyzer - Swept SA PNO: Fast IF Gain: Low Trig: Free Run Avg Type: Log-Pwr 12:58:47 AM Mar 01, 2019 Mkr1 3.192 73 GHz -26.98 dBm Ref Offset 11 dB Ref 40.00 dBm Start 0.030 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 18.67 ms (40001 pts) Stop 10.000 GHz</p>
<p>Conducted Emission Transmitting Mode CH 661 10GHz – 20GHz</p>	<p>Conducted Emission Transmitting Mode CH 810 10GHz – 20GHz</p>
<p>KeySight Spectrum Analyzer - Swept SA PNO: Fast IF Gain: Low Trig: Free Run Avg Type: Log-Pwr 12:57:58 AM Mar 01, 2019 Mkr1 17.928 00 GHz -22.57 dBm Ref Offset 11 dB Ref 40.00 dBm Start 10.000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 26.67 ms (40001 pts) Stop 20.000 GHz</p>	<p>KeySight Spectrum Analyzer - Swept SA PNO: Fast IF Gain: Low Trig: Free Run Avg Type: Log-Pwr 12:58:20 AM Mar 01, 2019 Mkr1 18.555 75 GHz -23.93 dBm Ref Offset 11 dB Ref 40.00 dBm Start 10.000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 26.67 ms (40001 pts) Stop 20.000 GHz</p>

Test Plot

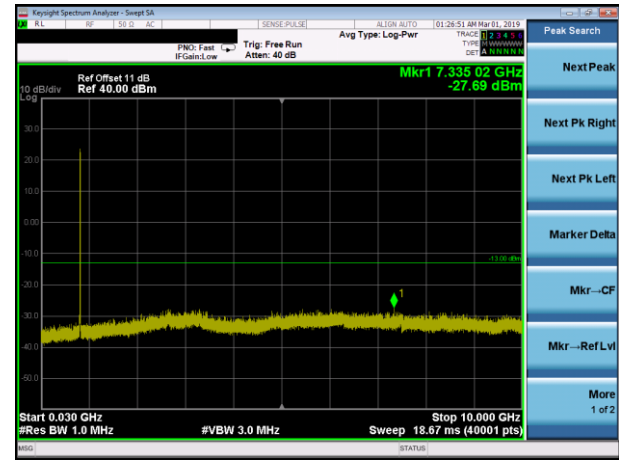
UMTS band V

Conducted Emission Transmitting Mode CH
4132 30MHz – 5GHz

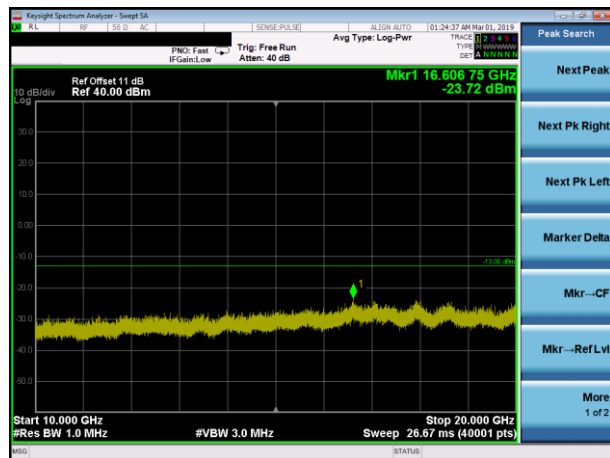


UMTS band V

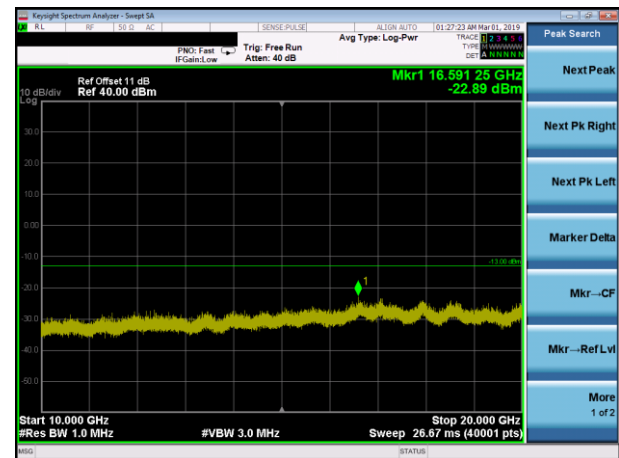
Conducted Emission Transmitting Mode CH 4183
30MHz – 5GHz



Conducted Emission Transmitting Mode CH
4132 5GHz – 10GHz



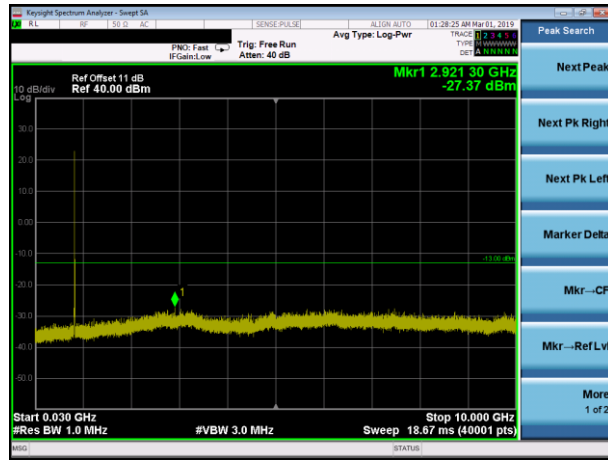
Conducted Emission Transmitting Mode CH 4183
5GHz – 10GHz



Test Plot

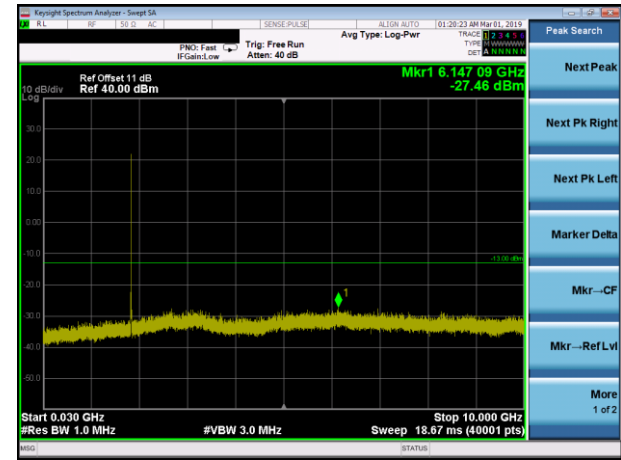
UMTS band V

Conducted Emission Transmitting Mode CH
4233 30MHz – 5GHz

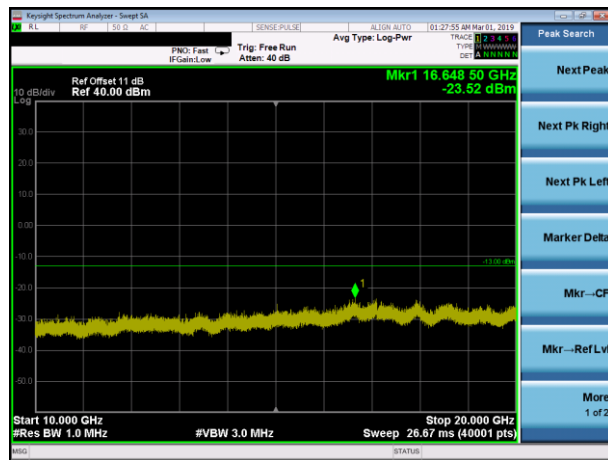


UMTS band II

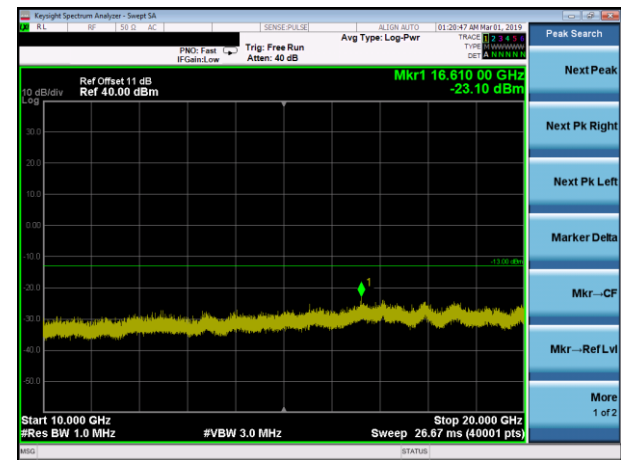
Conducted Emission Transmitting Mode CH 9262
30MHz – 10GHz



Conducted Emission Transmitting Mode CH
4233 5GHz – 10GHz



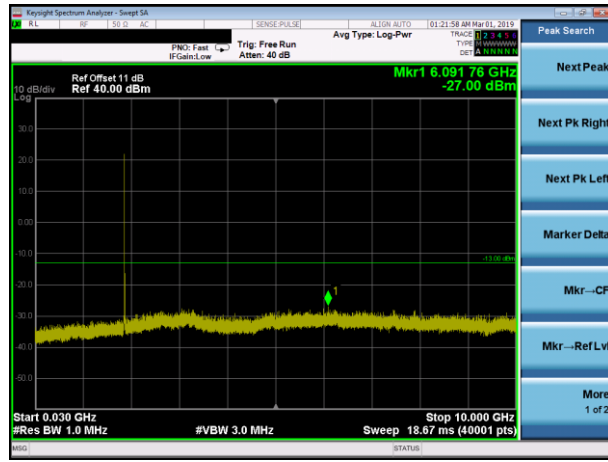
Conducted Emission Transmitting Mode CH 9262
10GHz – 20GHz



Test Plot

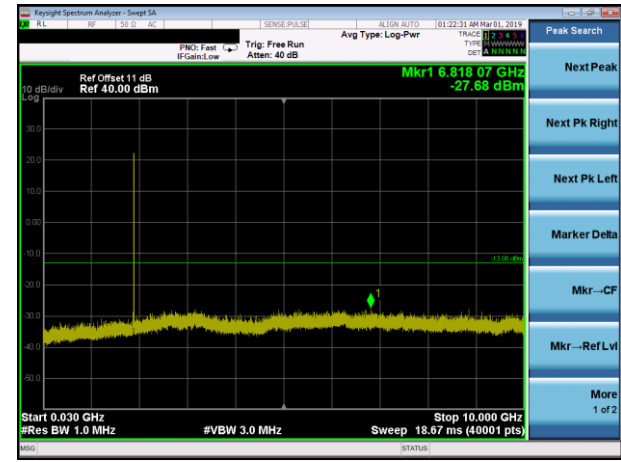
UMTS band II

Conducted Emission Transmitting Mode CH
9400 30MHz – 10GHz

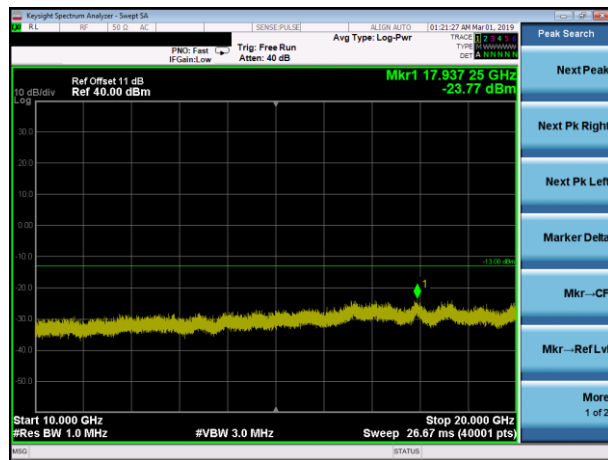


UMTS band II

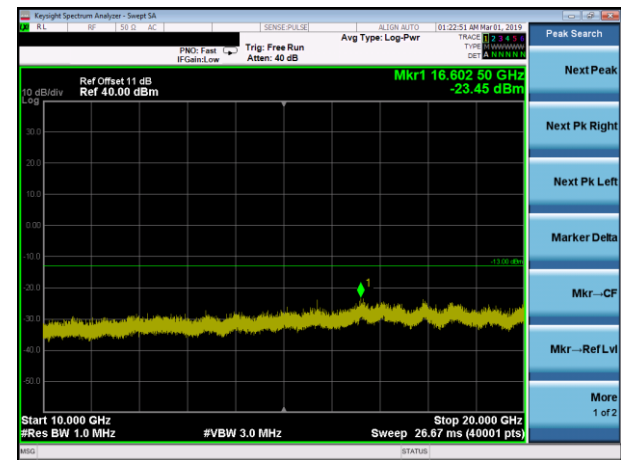
Conducted Emission Transmitting Mode CH 9538
30MHz – 10GHz



Conducted Emission Transmitting Mode CH
9400 10GHz – 20GHz



Conducted Emission Transmitting Mode CH 9538
10GHz – 20GHz



END OF REPORT