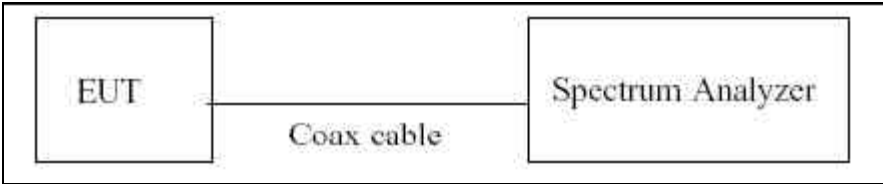


8.3 POWER SPECTRAL DENSITY

The peak power density is measured with a spectrum analyzer connected to the antenna terminal while the EUT is operating in transmission mode at the appropriate frequencies. The maximum permissible peak power spectral density is 4 dBm/ MHz in the 5.15 GHz – 5.25 GHz band and 11 dBm/ MHz in the 5.25 GHz – 5.35 GHz and 5.47 GHz – 5.725 GHz bands

■ TEST CONFIGURATION



■ TEST PROCEDURE

The spectrum analyzer is set to :

RBW = 1 MHz

VBW = 3 MHz

SPAN = to encompass the entire EBW of the signal

Sweep Time = auto

Detector Mode = Average

Trace average at least 100 traces in power averaging(RMS) mode

■ Sample Calculation

$$\begin{aligned}
 \text{PSD} &= \text{Reading Value} + \text{ATT loss} + \text{Cable loss}(1 \text{ ea}) \\
 &= -5 \text{ dBm} + 10 \text{ dB} + 0.8 \text{ dB} = 15.8 \text{ dBm}
 \end{aligned}$$

Note :

1. Spectrum reading values are not plot data. The PSD results in plot is already including the actual values of loss for the attenuator and cable combination.
2. Spectrum offset = Attenuator loss + Cable loss
3. We apply to the offset in the 5.2 GHz, 5.3 GHz and 5.6 GHz range that was rounded off to the closest tenth dB. Actual value of loss for the attenuator and cable combination is 10.78 dB at 5.2 GHz and is 10.81 dB at 5.3 GHz and is 10.86 at 5500 MHz, 10.89 at 5580 MHz, 10.91 at 5700 MHz.

FCC PT.15.247 TEST REPORT		FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1204FR31-1	Date of Issue: May 09, 2012	EUT Type: Cellular/PCS GSM/GPRS/EDGE & Cellular WCDMA/HSDPA/HSUPA Phone with Bluetooth and WLAN/NFC		FCC ID: ZNFP940H

■ TEST RESULTS

Conducted Power Density Measurements

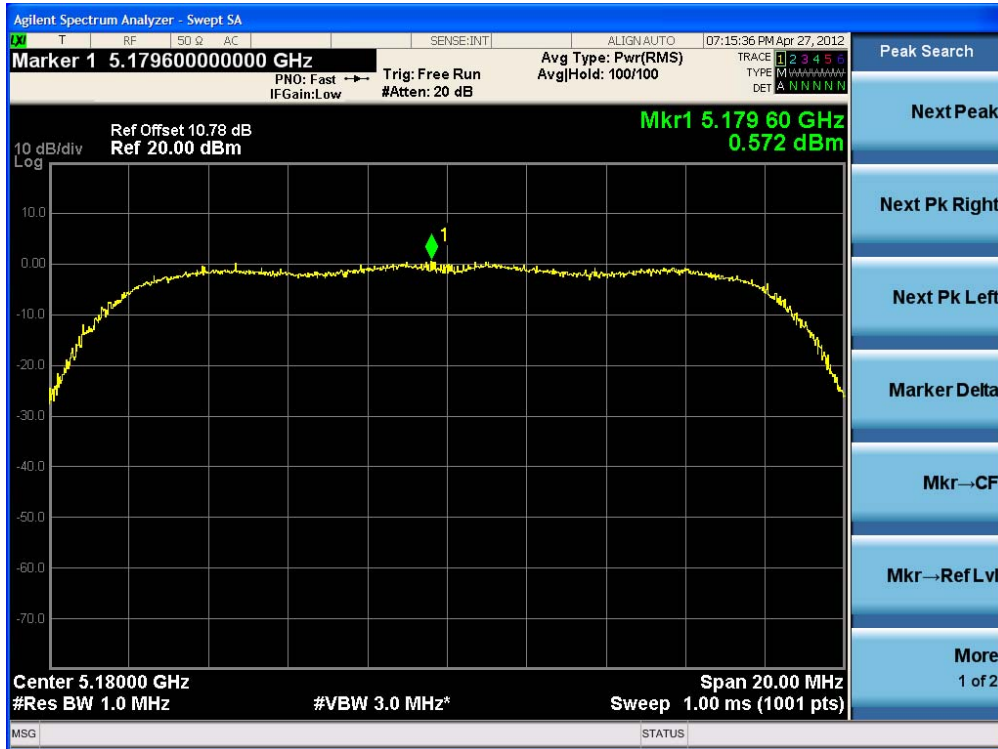
Frequency (MHz)	Channel No.	Mode	Test Result		
			Power Density (dBm)	Limit (dBm)	Pass/Fail
5180	36	802.11a	0.572	4	Pass
5200	40		0.496	4	Pass
5240	48		0.838	4	Pass
5260	52	802.11a	-0.706	11	Pass
5300	60		-1.004	11	Pass
5320	64		-1.011	11	Pass
5500	100	802.11a	-1.306	11	Pass
5600	120		0.258	11	Pass
5700	140		0.263	11	Pass

Conducted Power Density Measurements

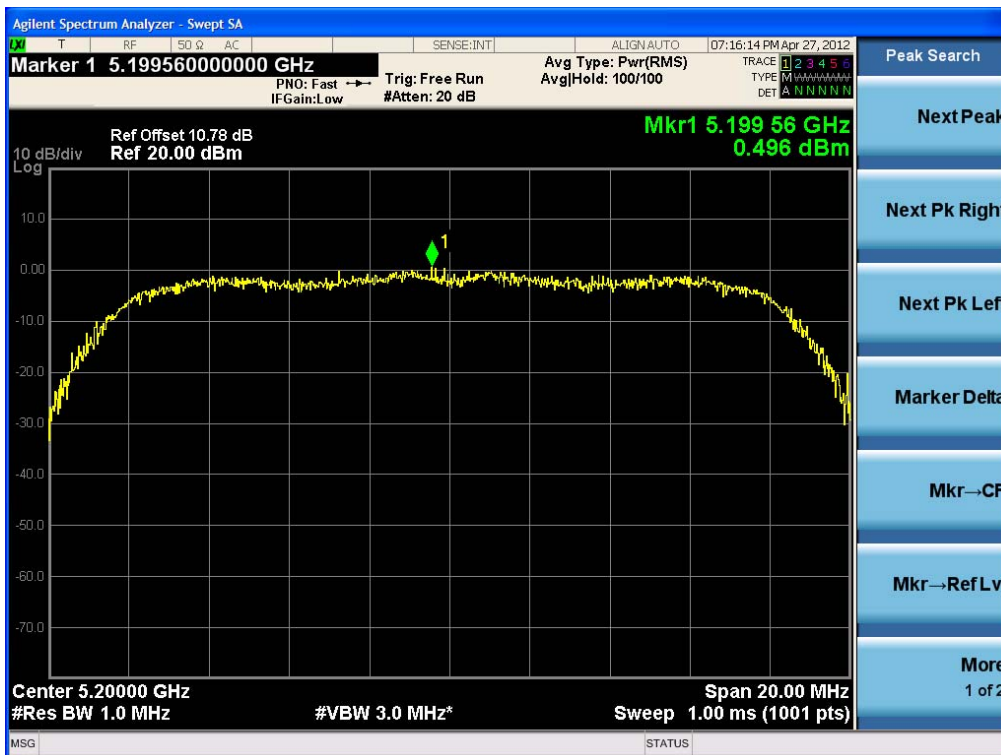
Frequency (MHz)	Channel No.	Mode	Test Result		
			Power Density (dBm)	Limit (dBm)	Pass/Fail
5180	36	802.11n	-0.534	4	Pass
5200	40		-0.510	4	Pass
5240	48		-0.510	4	Pass
5260	52	802.11n	-1.053	11	Pass
5300	60		-2.306	11	Pass
5320	64		-1.38	11	Pass
5500	100	802.11n	-0.769	11	Pass
5600	120		-0.331	11	Pass
5700	140		0.366	11	Pass

RESULT PLOTS

Power Spectral Density (802.11a-CH 36)

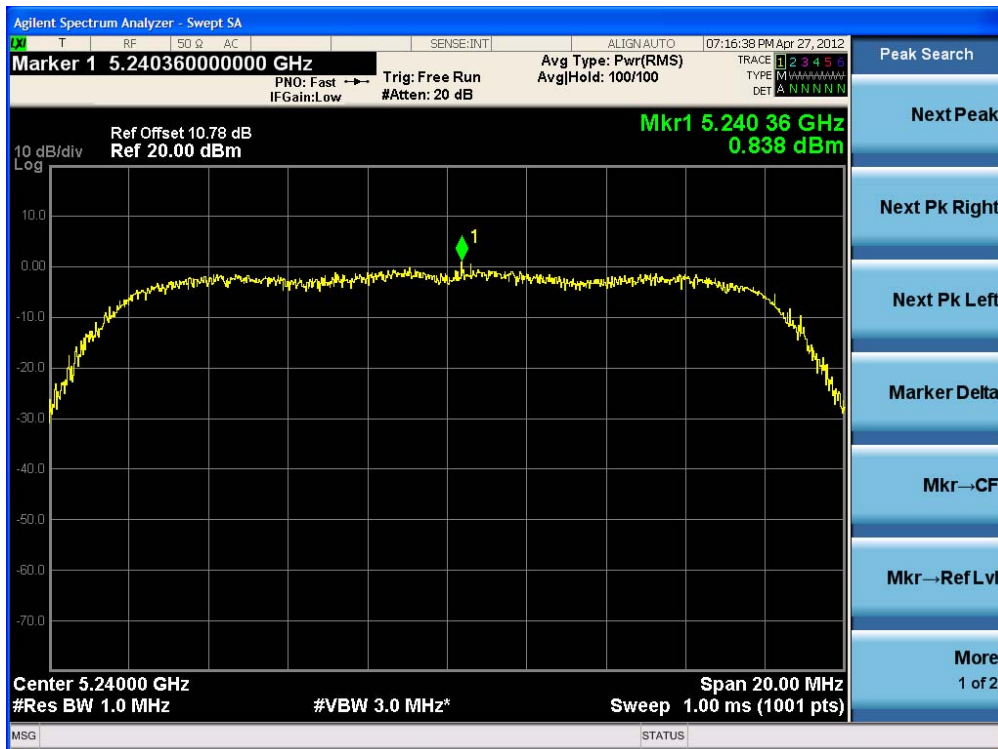


Power Spectral Density (802.11a-CH 40)

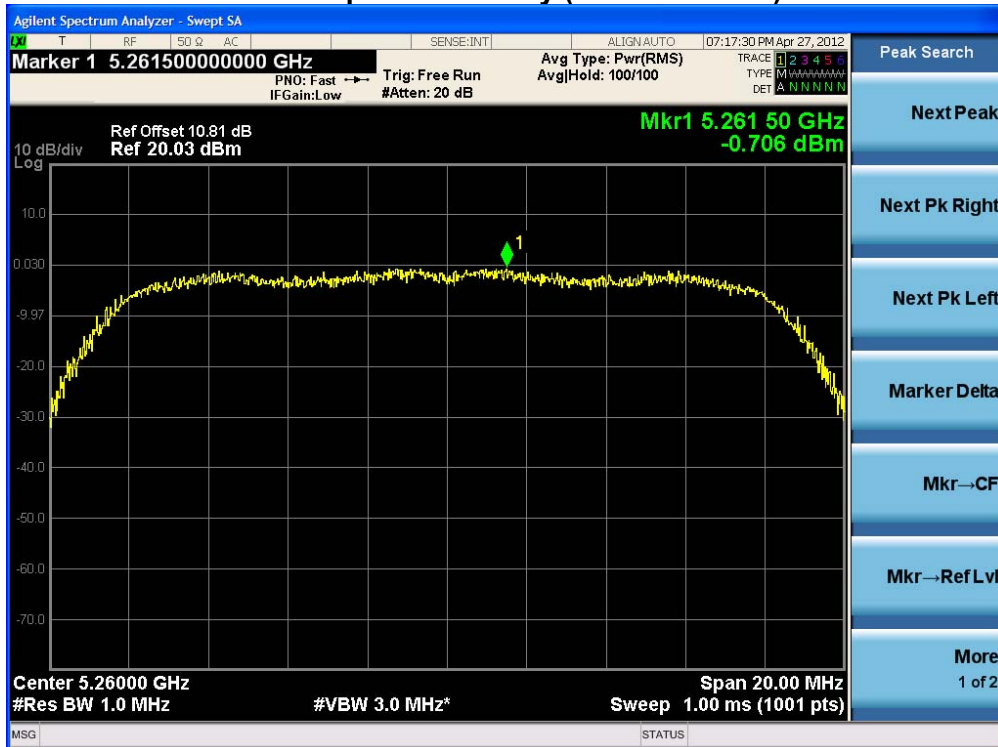


FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1204FR31-1	Date of Issue: May 09, 2012	EUT Type: Cellular/PCS GSM/GPRS/EDGE & Cellular WCDMA/HSDPA/HSUPA Phone with Bluetooth and WLAN/NFC	FCC ID: ZNFP940H

Power Spectral Density (802.11a-CH 48)

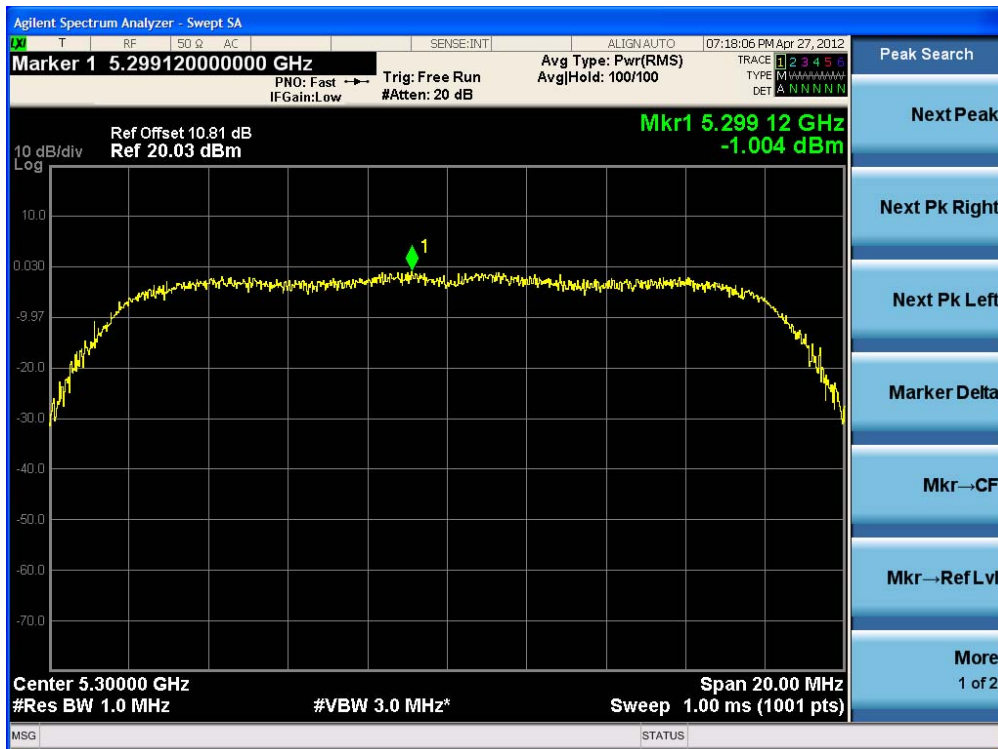


Power Spectral Density (802.11a-CH 52)

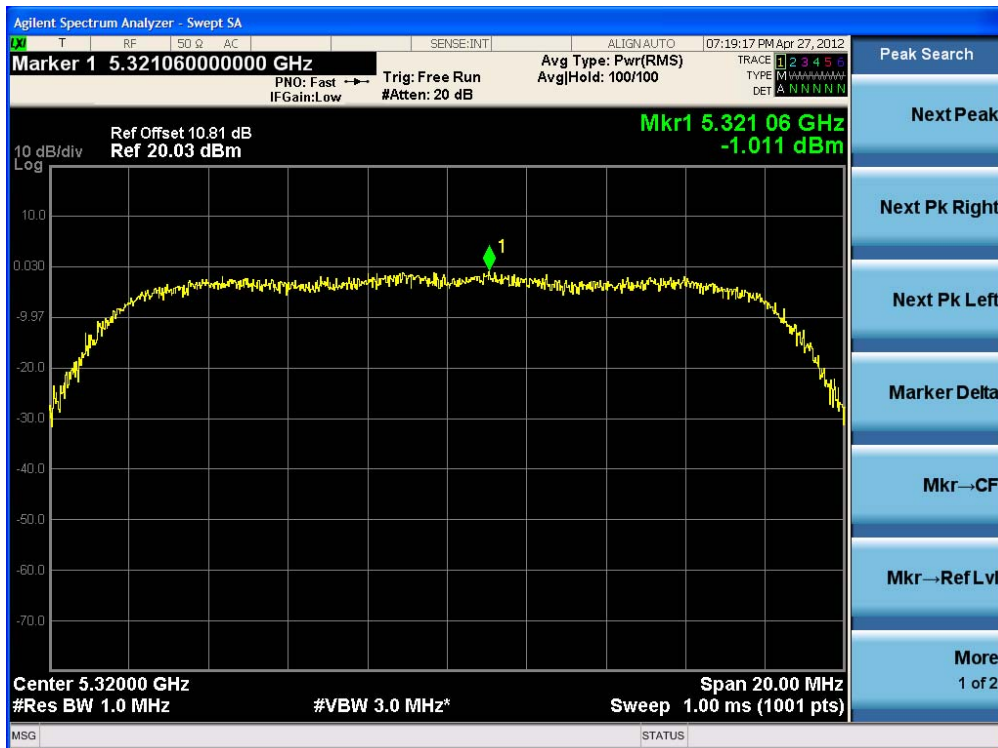


FCC PT.15.247 TEST REPORT		FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1204FR31-1	Date of Issue: May 09, 2012	EUT Type: Cellular/PCS GSM/GPRS/EDGE & Cellular WCDMA/HSDPA/HSUPA Phone with Bluetooth and WLAN/NFC		FCC ID: ZNFP940H

Power Spectral Density (802.11a-CH 60)

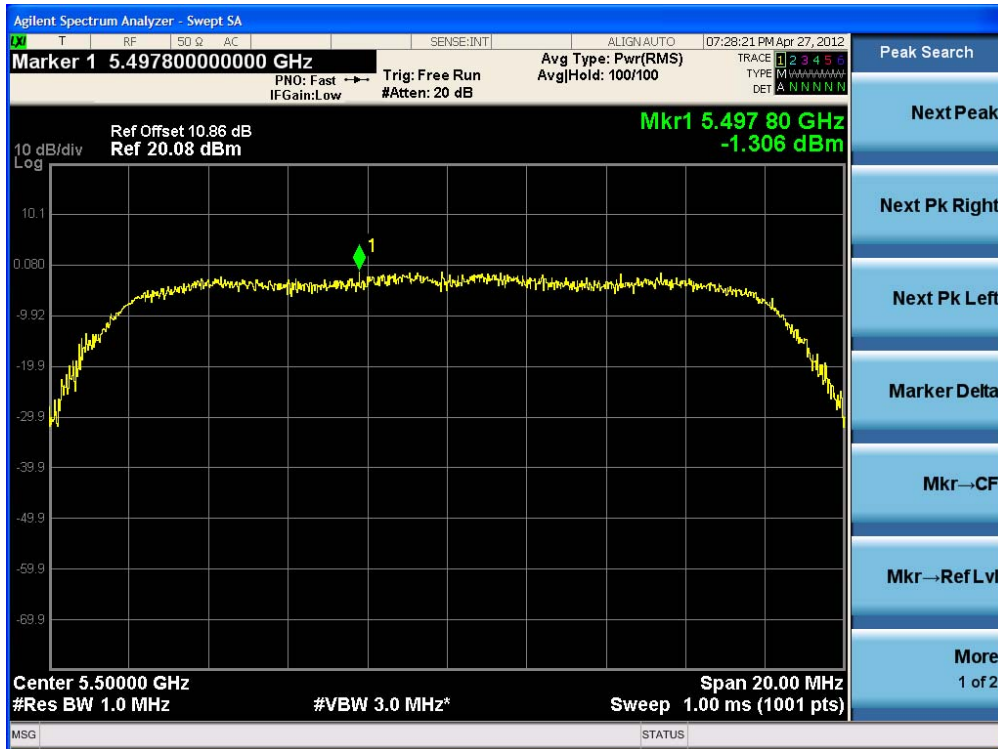


Power Spectral Density (802.11a-CH 64)

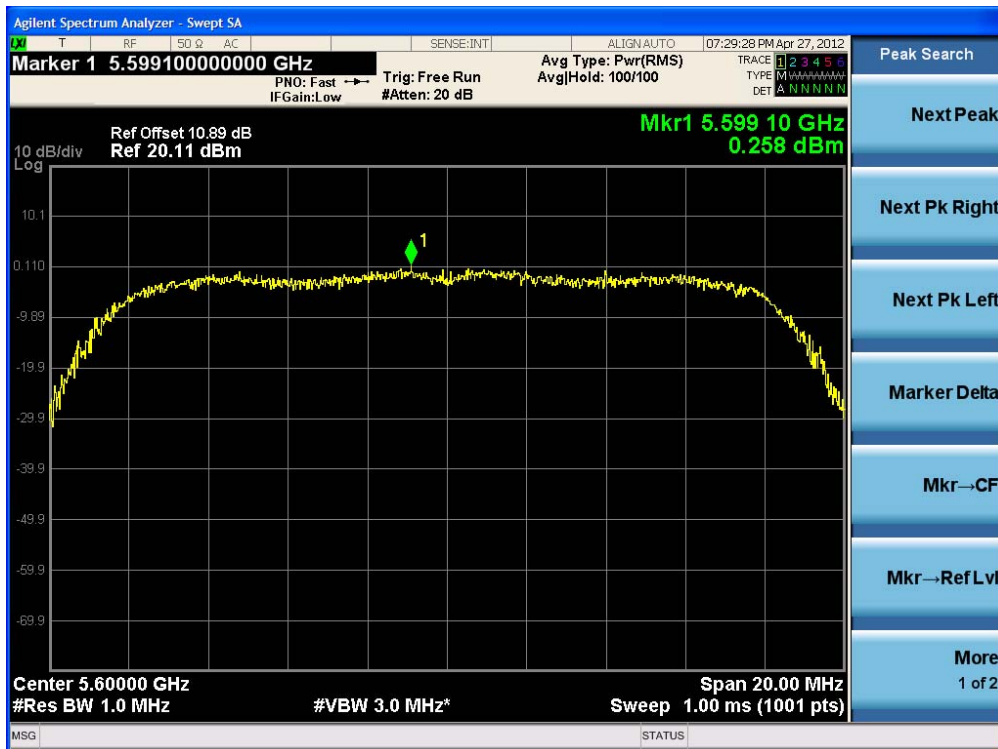


FCC PT.15.247 TEST REPORT		FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1204FR31-1	Date of Issue: May 09, 2012	EUT Type: Cellular/PCS GSM/GPRS/EDGE & Cellular WCDMA/HSDPA/HSUPA Phone with Bluetooth and WLAN/NFC	FCC ID: ZNFP940H	

Power Spectral Density (802.11a-CH 100)

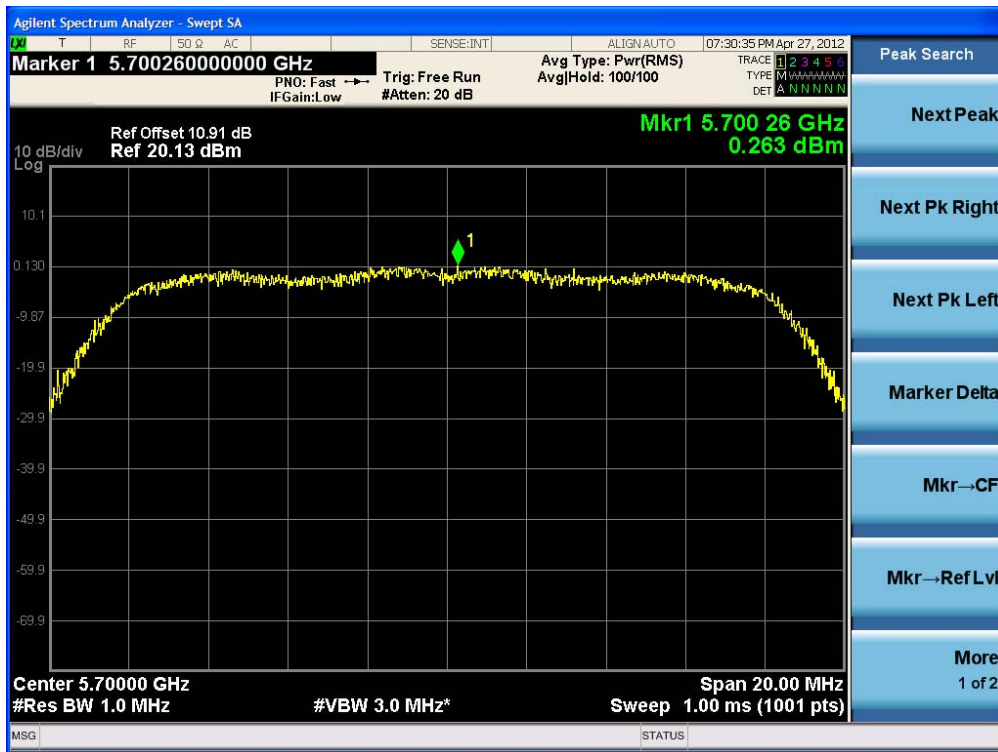


Power Spectral Density (802.11a-CH 120)



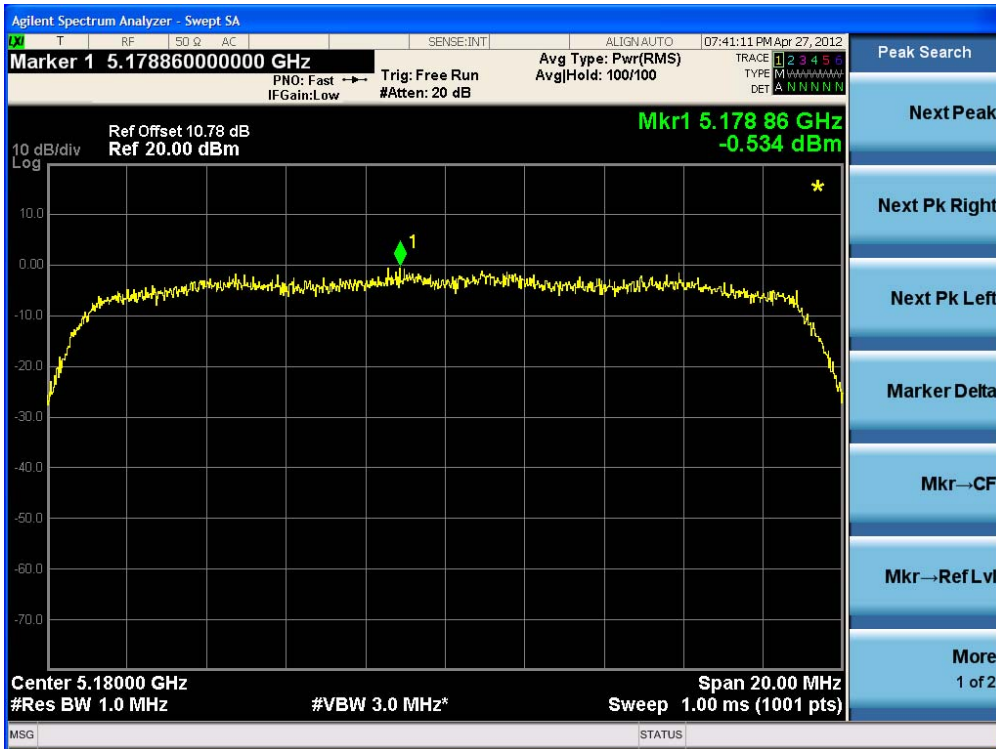
FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1204FR31-1	Date of Issue: May 09, 2012	EUT Type: Cellular/PCS GSM/GPRS/EDGE & Cellular WCDMA/HSDPA/HSUPA Phone with Bluetooth and WLAN/NFC	FCC ID: ZNFP940H

Power Spectral Density (802.11a-CH 140)

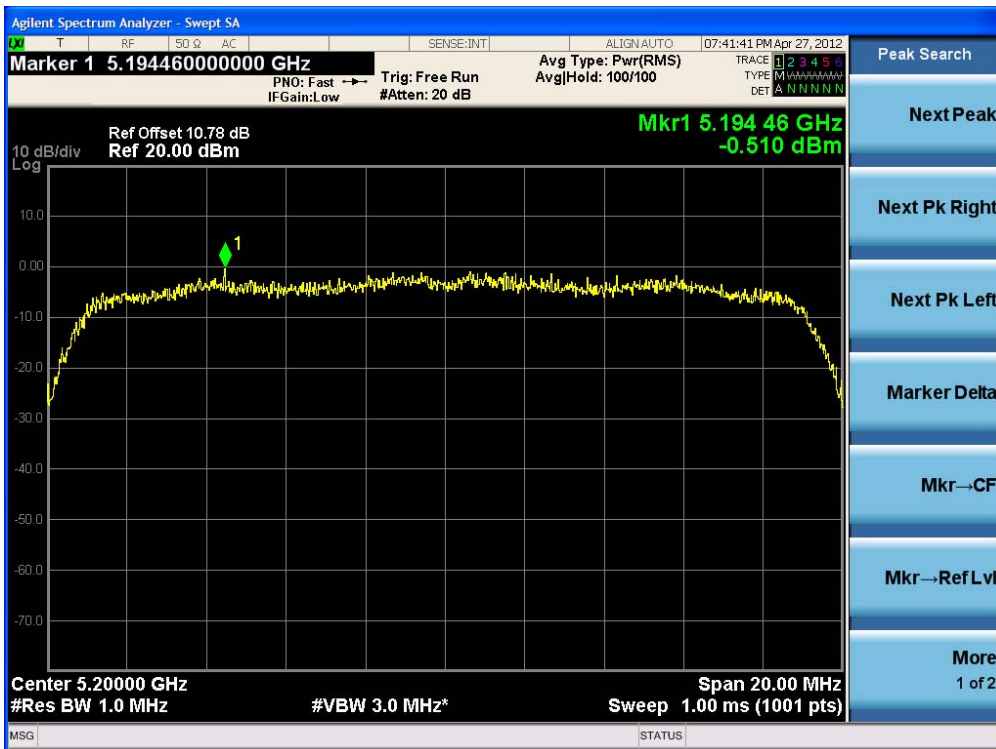


FCC PT.15.247 TEST REPORT		FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1204FR31-1	Date of Issue: May 09, 2012	EUT Type: Cellular/PCS GSM/GPRS/EDGE & Cellular WCDMA/HSDPA/HSUPA Phone with Bluetooth and WLAN/NFC		FCC ID: ZNFP940H

Power Spectral Density (802.11n-CH 36)



Power Spectral Density (802.11n-CH 40)



FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1204FR31-1	Date of Issue: May 09, 2012	EUT Type: Cellular/PCS GSM/GPRS/EDGE & Cellular WCDMA/HSDPA/HSUPA Phone with Bluetooth and WLAN/NFC	FCC ID: ZNFP940H

Power Spectral Density (802.11n-CH 48)



Power Spectral Density (802.11n-CH 52)

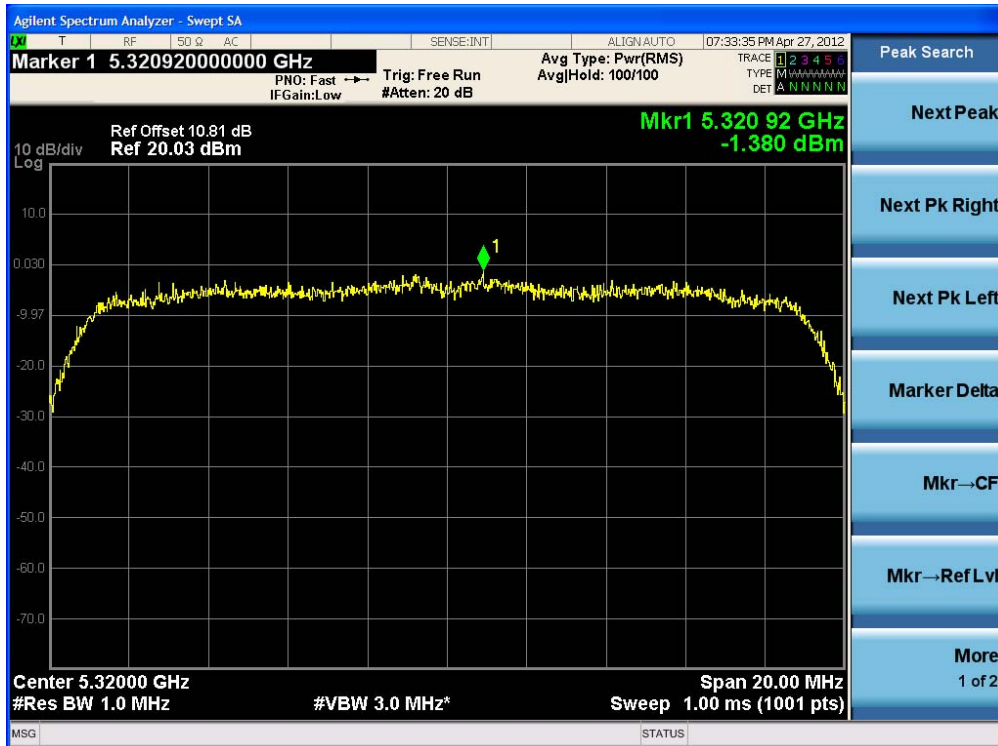


FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1204FR31-1	Date of Issue: May 09, 2012	EUT Type: Cellular/PCS GSM/GPRS/EDGE & Cellular WCDMA/HSDPA/HSUPA Phone with Bluetooth and WLAN/NFC	FCC ID: ZNFP940H

Power Spectral Density (802.11n-CH 60)

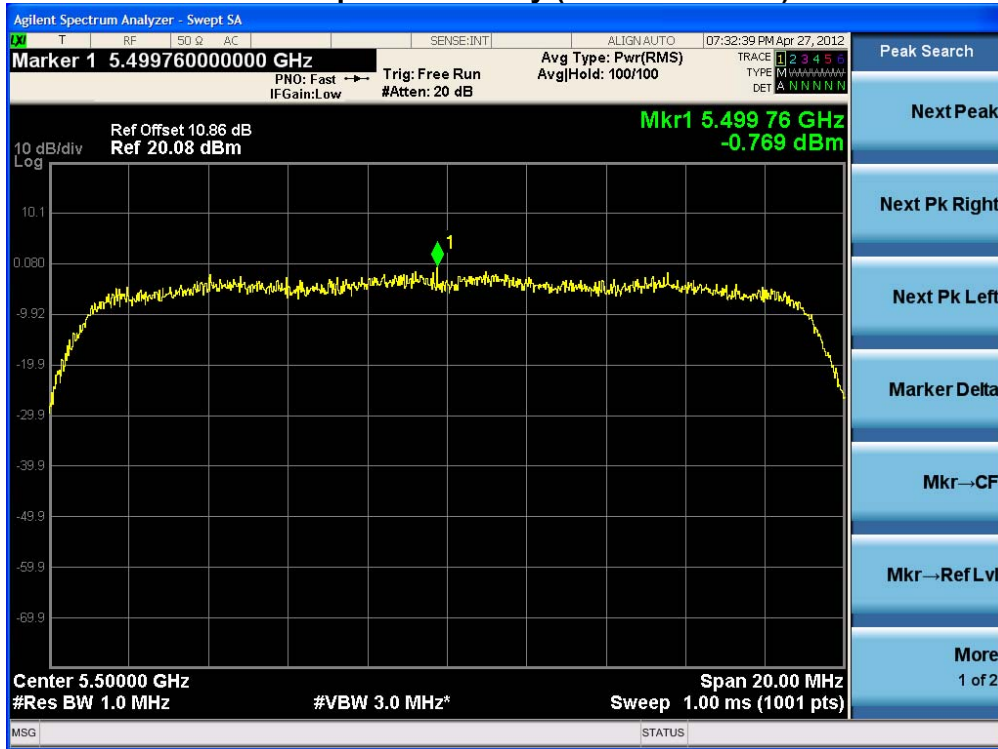


Power Spectral Density (802.11n-CH 64)

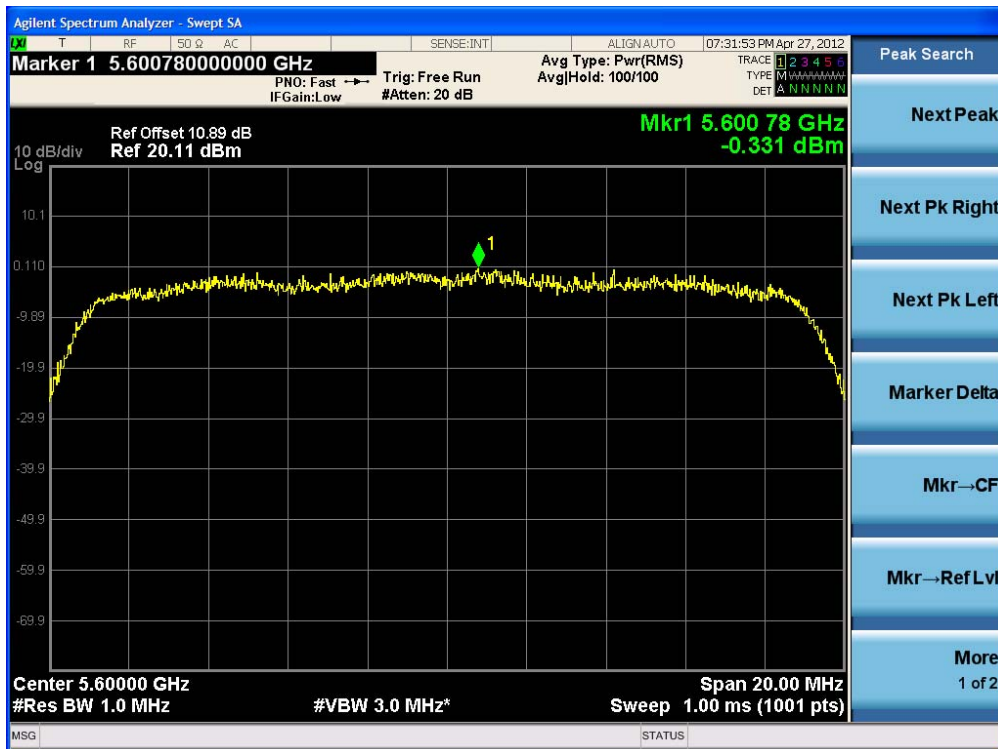


FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1204FR31-1	Date of Issue: May 09, 2012	EUT Type: Cellular/PCS GSM/GPRS/EDGE & Cellular WCDMA/HSDPA/HSUPA Phone with Bluetooth and WLAN/NFC	FCC ID: ZNFP940H

Power Spectral Density (802.11n-CH 100)



Power Spectral Density (802.11n-CH 120)



FCC PT.15.247 TEST REPORT		FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1204FR31-1	Date of Issue: May 09, 2012	EUT Type: Cellular/PCS GSM/GPRS/EDGE & Cellular WCDMA/HSDPA/HSUPA Phone with Bluetooth and WLAN/NFC		FCC ID: ZNFP940H

Power Spectral Density (802.11n-CH 140)

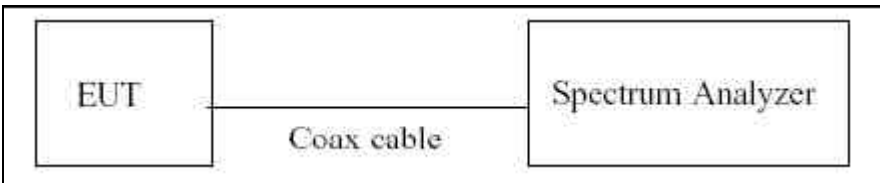


FCC PT.15.247 TEST REPORT		FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1204FR31-1	Date of Issue: May 09, 2012	EUT Type: Cellular/PCS GSM/GPRS/EDGE & Cellular WCDMA/HSDPA/HSUPA Phone with Bluetooth and WLAN/NFC		FCC ID: ZNFP940H

8.4 PEAK EXCURSION RATIO

The spectrum analyzer was connected to the antenna terminal while the EUT was operating in the continuous transmission mode at the appropriate center frequencies. The ratio of the maximum of the peak-max-hold spectrum to the maximum of the average spectrum for continuous transmission does not exceed 13 dB.

■ TEST CONFIGURATION



■ TEST PROCEDURE

We tested according to KDB 789033(issued 03/05/2012).

The spectrum analyzer is set to :

1. Span = Set the span to view the entire emission bandwidth.
2. RBW = 1 MHz
3. VBW = 3 MHz
4. Sweep = Auto couple
5. Detector Mode = Peak
6. Trace Mode = Max hold
7. Use the procedure to measure the PPSD
8. Compute the ratio of the maximum of the peak-max-hold spectrum to the PPSD.

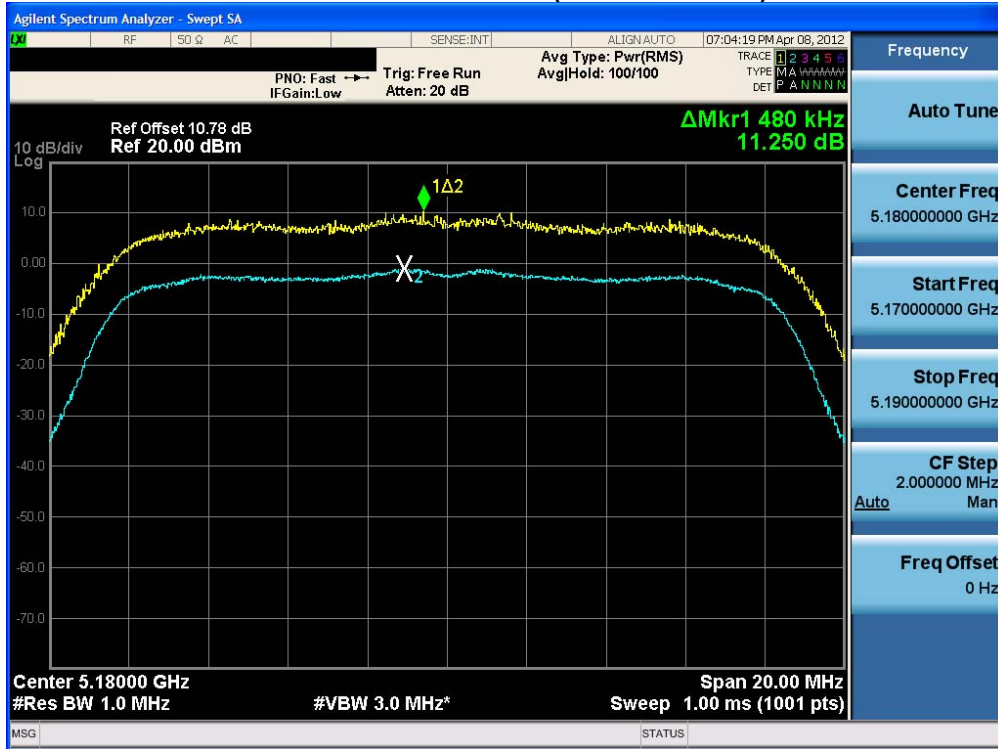
Note :

1. The PSD results in plot is already including the actual values of loss for the attenuator and cable combination.
2. Spectrum offset = Attenuator loss + Cable loss
3. We apply to the offset in the 5.2 GHz, 5.3 GHz and 5.6 GHz range that was rounded off to the closest tenth dB. Actual value of loss for the attenuator and cable combination is 10.78 dB at 5.2 GHz and is 10.81 dB at 5.3 GHz and is 10.86 at 5500 MHz, 10.89 at 5600 MHz, 10.91 at 5700 MHz.

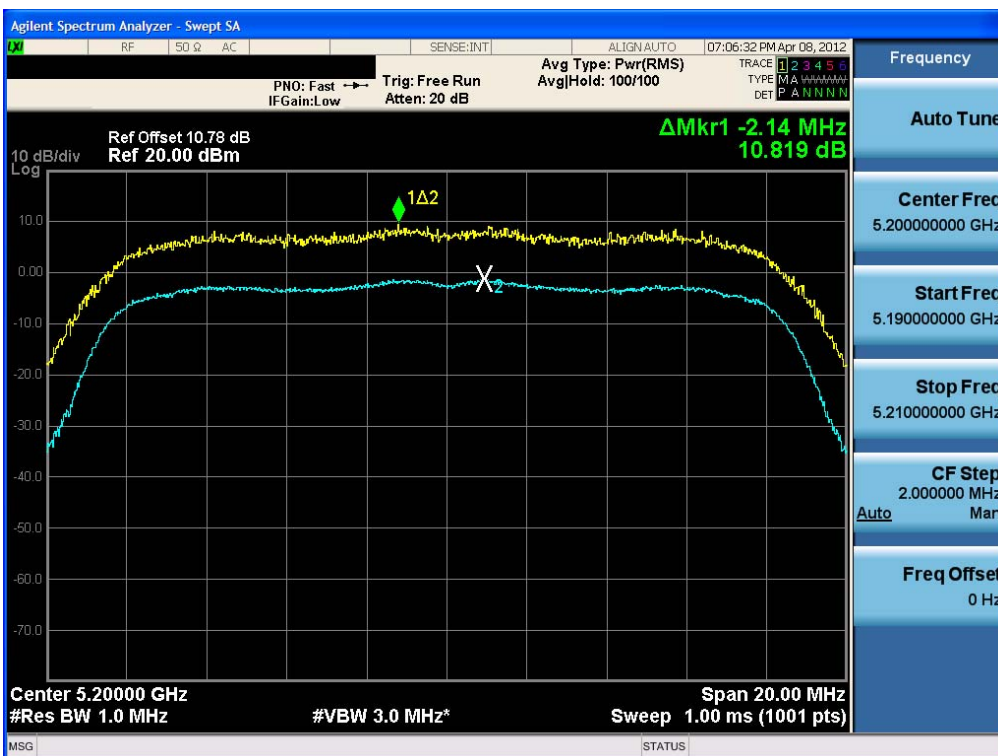
FCC PT.15.247 TEST REPORT		FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1204FR31-1	Date of Issue: May 09, 2012	EUT Type: Cellular/PCS GSM/GPRS/EDGE & Cellular WCDMA/HSDPA/HSUPA Phone with Bluetooth and WLAN/NFC		FCC ID: ZNFP940H

RESULT PLOTS

Peak Excursion Ratio (802.11a-CH 36)

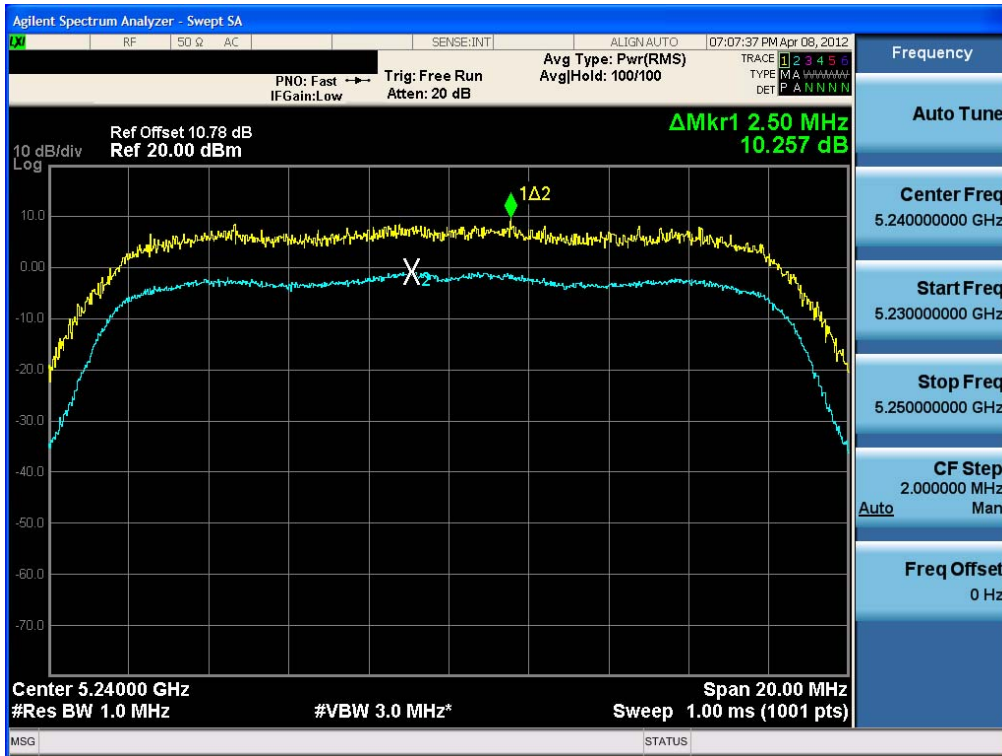


Peak Excursion Ratio (802.11a-CH 40)

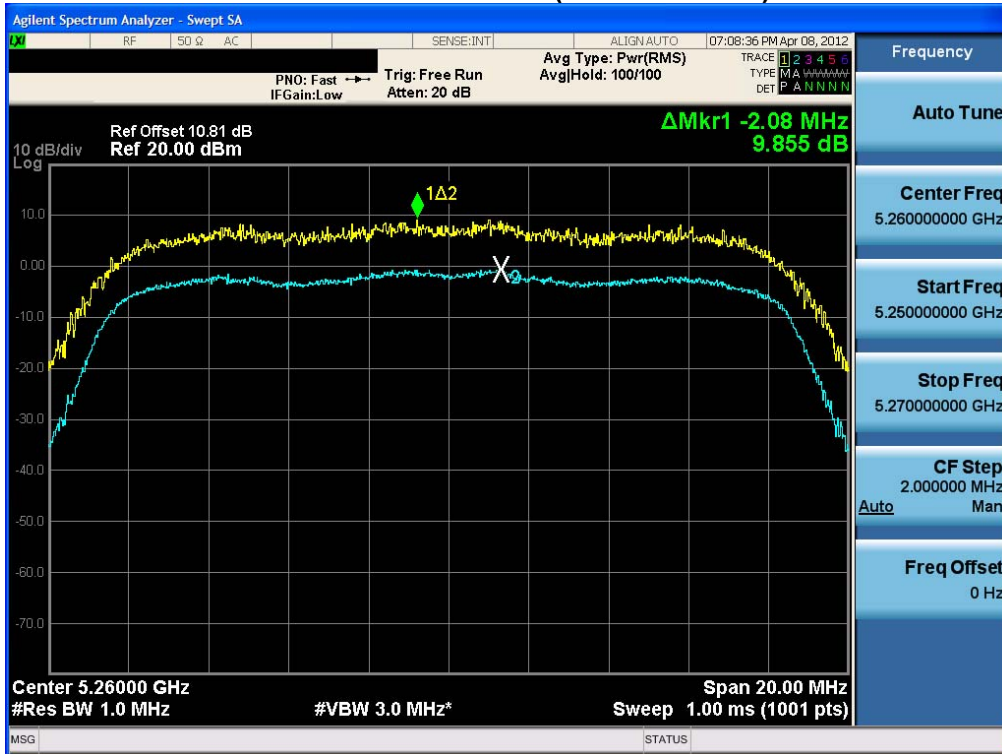


FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1204FR31-1	Date of Issue: May 09, 2012	EUT Type: Cellular/PCS GSM/GPRS/EDGE & Cellular WCDMA/HSDPA/HSUPA Phone with Bluetooth and WLAN/NFC	FCC ID: ZNFP940H

Peak Excursion Ratio (802.11a-CH 48)

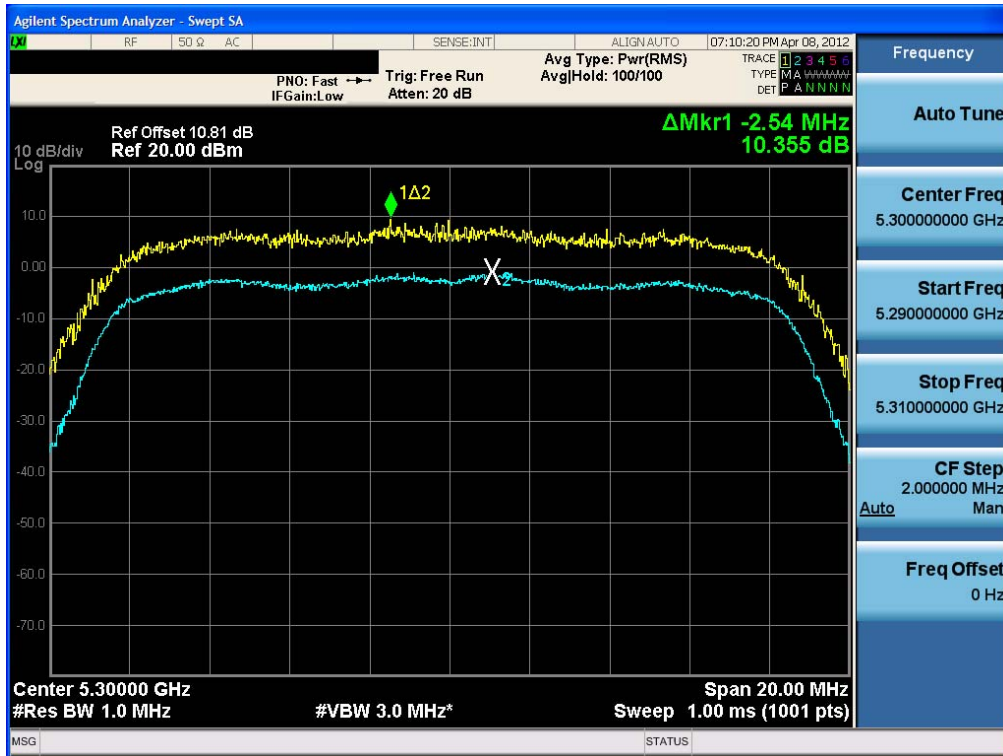


Peak Excursion Ratio (802.11a-CH 52)

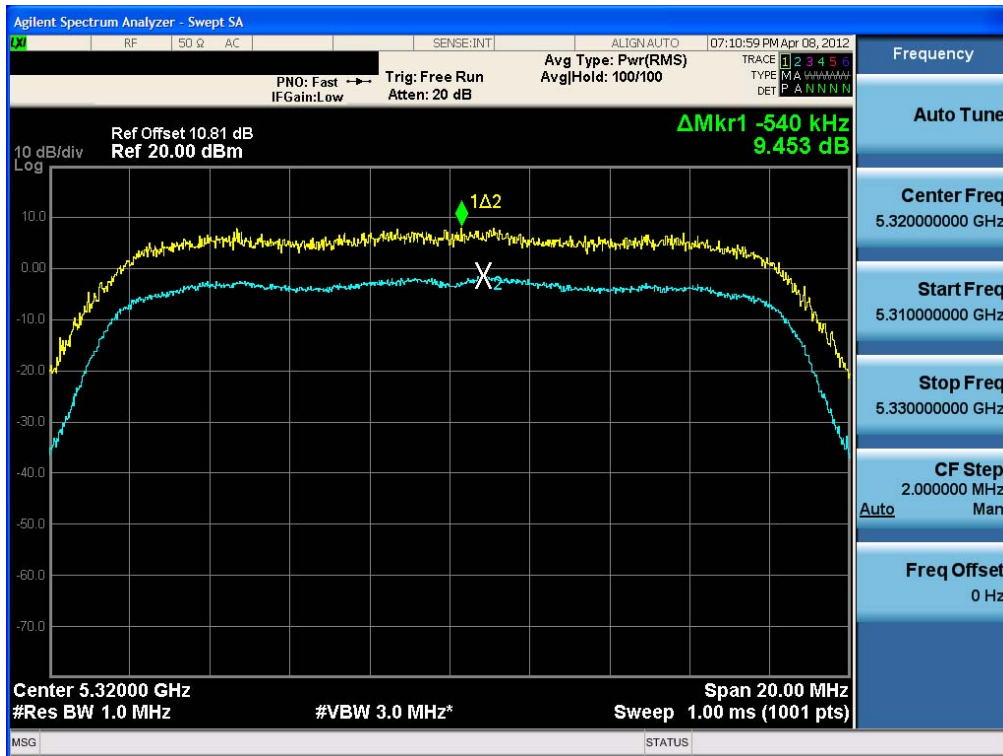


FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1204FR31-1	Date of Issue: May 09, 2012	EUT Type: Cellular/PCS GSM/GPRS/EDGE & Cellular WCDMA/HSDPA/HSUPA Phone with Bluetooth and WLAN/NFC	FCC ID: ZNFP940H

Peak Excursion Ratio (802.11a-CH 60)

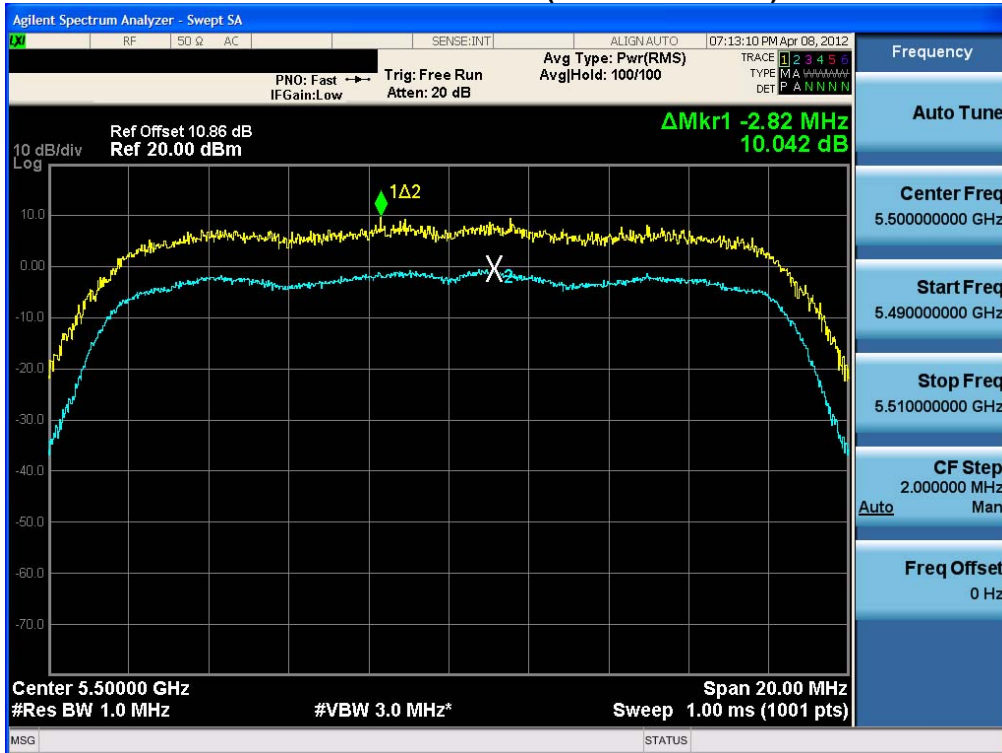


Peak Excursion Ratio (802.11a-CH 64)

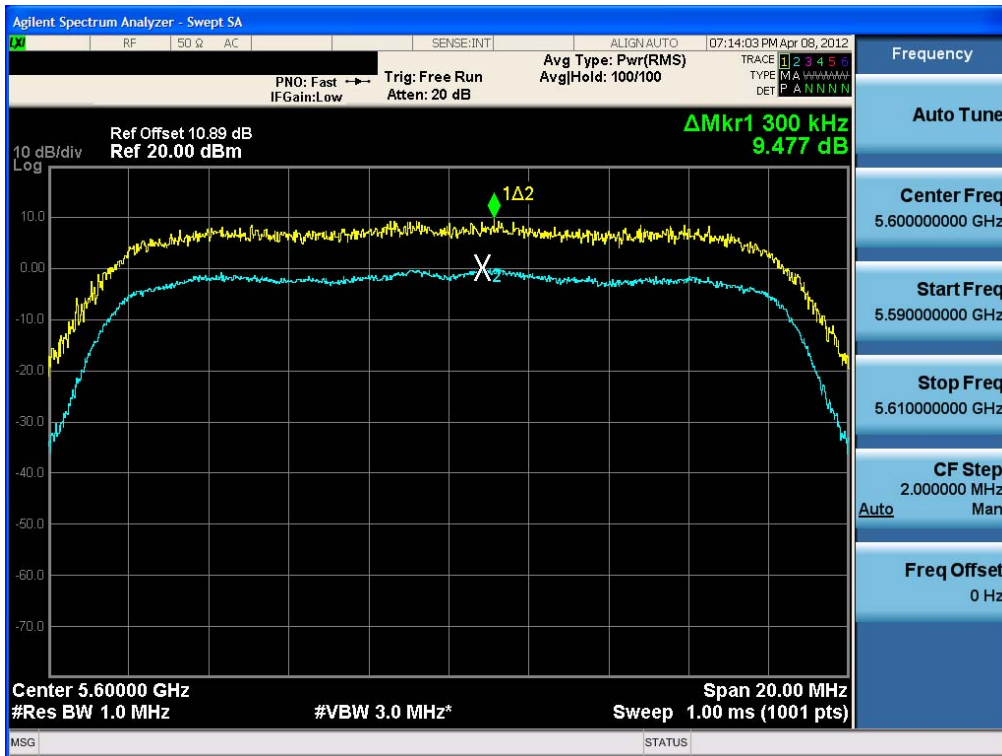


FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1204FR31-1	Date of Issue: May 09, 2012	EUT Type: Cellular/PCS GSM/GPRS/EDGE & Cellular WCDMA/HSDPA/HSUPA Phone with Bluetooth and WLAN/NFC	FCC ID: ZNFP940H

Peak Excursion Ratio (802.11a-CH 100)

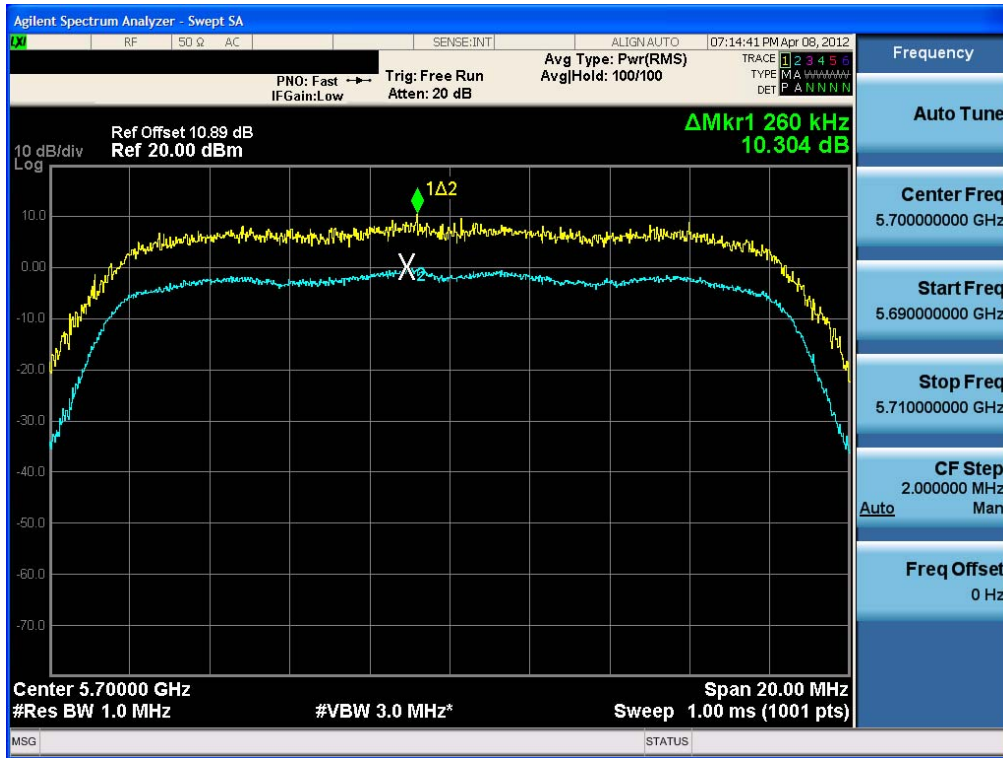


Peak Excursion Ratio (802.11a-CH 116)



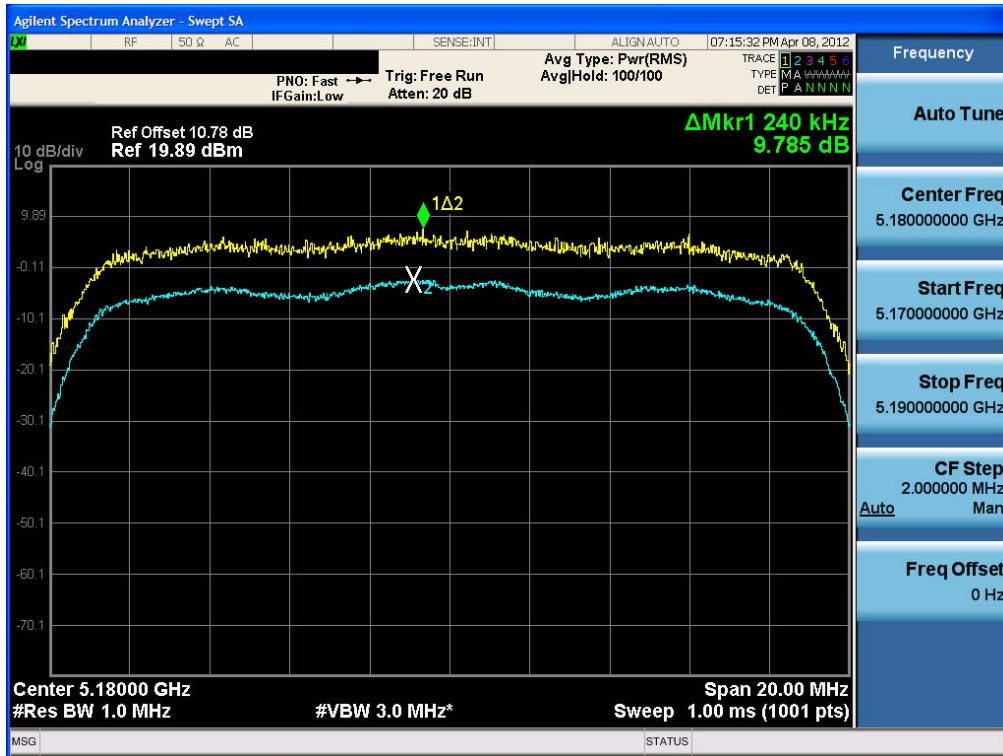
FCC PT.15.247 TEST REPORT		FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1204FR31-1	Date of Issue: May 09, 2012	EUT Type: Cellular/PCS GSM/GPRS/EDGE & Cellular WCDMA/HSDPA/HSUPA Phone with Bluetooth and WLAN/NFC		FCC ID: ZNFP940H

Peak Excursion Ratio (802.11a-CH 140)

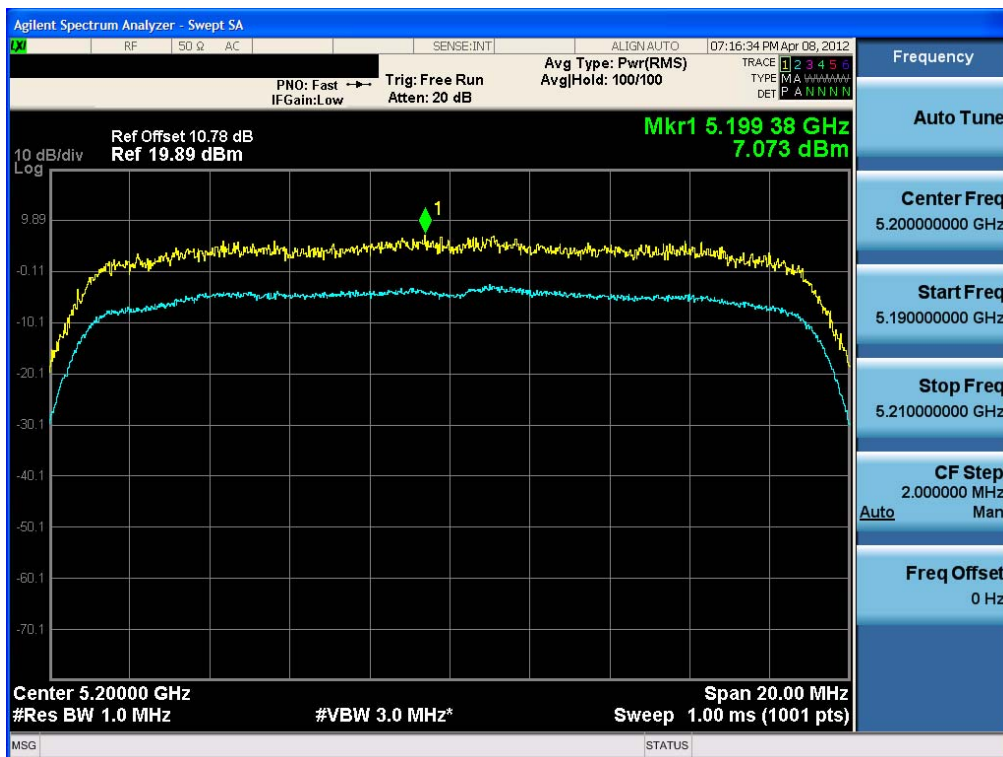


FCC PT.15.247 TEST REPORT		FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1204FR31-1	Date of Issue: May 09, 2012	EUT Type: Cellular/PCS GSM/GPRS/EDGE & Cellular WCDMA/HSDPA/HSUPA Phone with Bluetooth and WLAN/NFC		FCC ID: ZNFP940H

Peak Excursion Ratio (802.11n-CH 36)

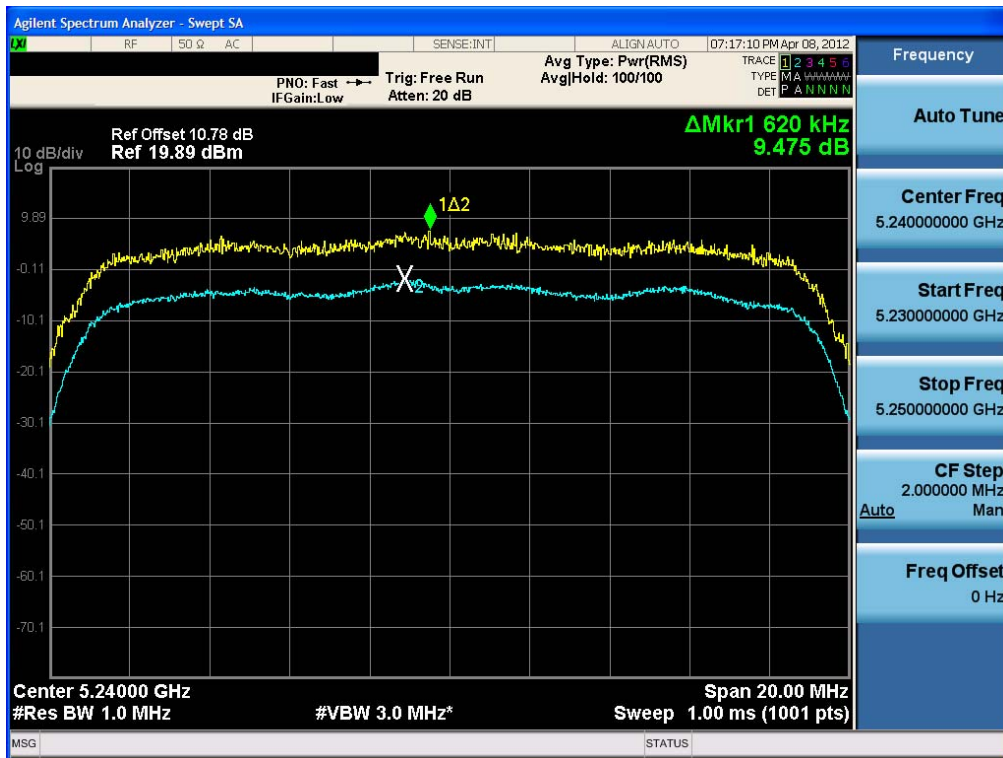


Peak Excursion Ratio (802.11n-CH 40)

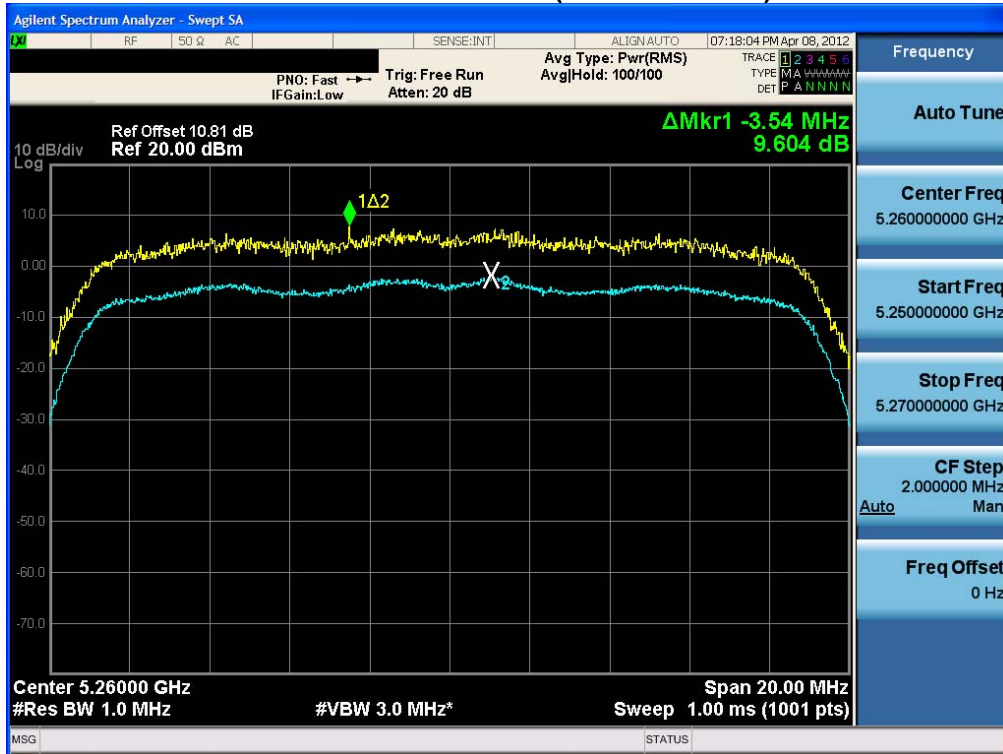


FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1204FR31-1	Date of Issue: May 09, 2012	EUT Type: Cellular/PCS GSM/GPRS/EDGE & Cellular WCDMA/HSDPA/HSUPA Phone with Bluetooth and WLAN/NFC	FCC ID: ZNFP940H

Peak Excursion Ratio (802.11n-CH 48)

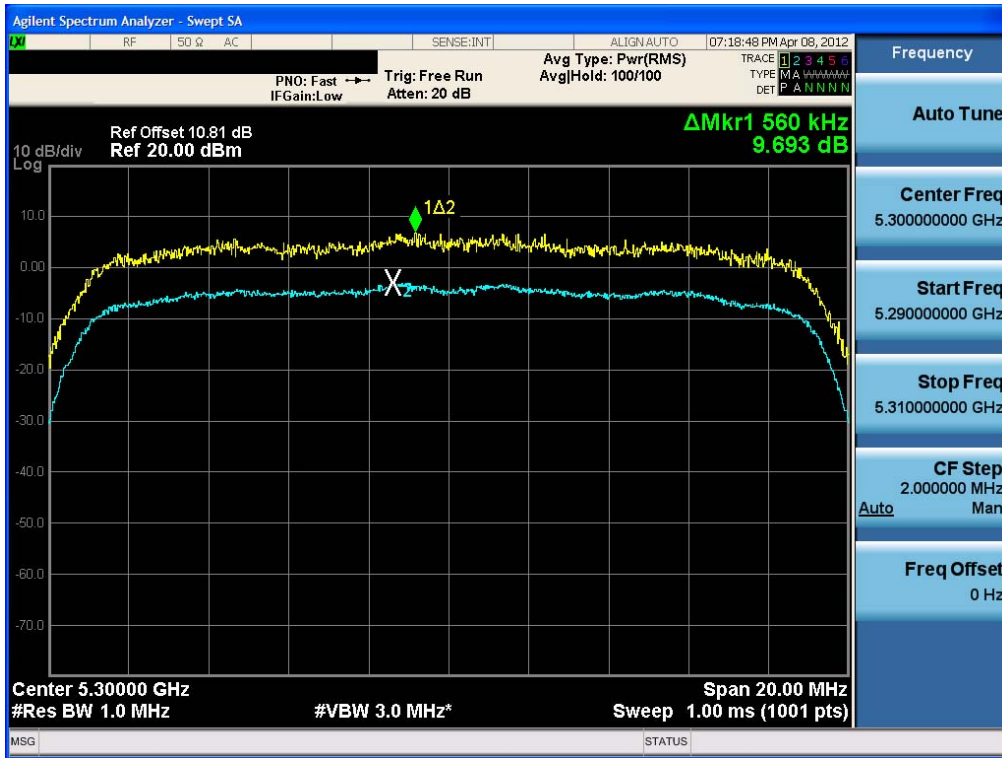


Peak Excursion Ratio (802.11n-CH 52)

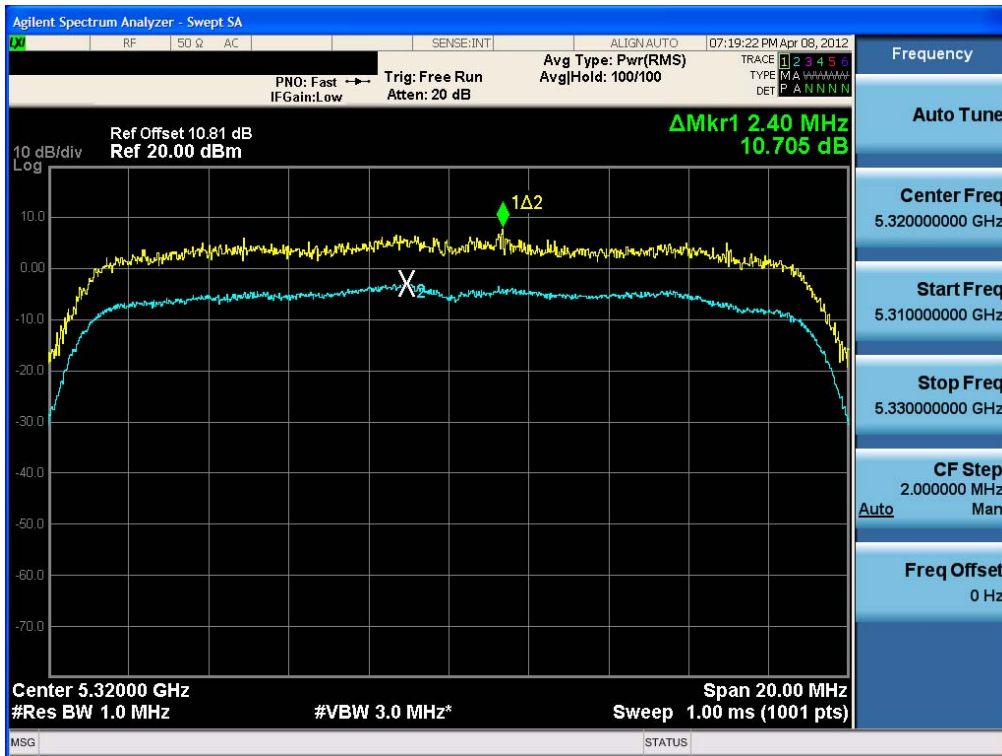


FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1204FR31-1	Date of Issue: May 09, 2012	EUT Type: Cellular/PCS GSM/GPRS/EDGE & Cellular WCDMA/HSDPA/HSUPA Phone with Bluetooth and WLAN/NFC	FCC ID: ZNFP940H

Peak Excursion Ratio (802.11n-CH 60)

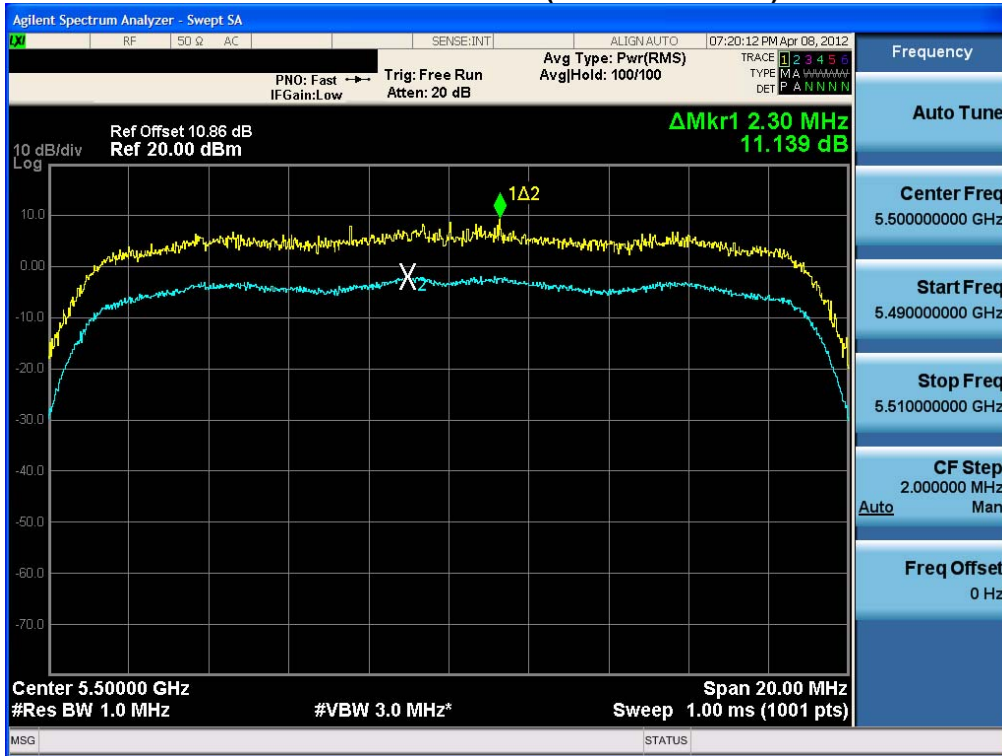


Peak Excursion Ratio (802.11n-CH 64)

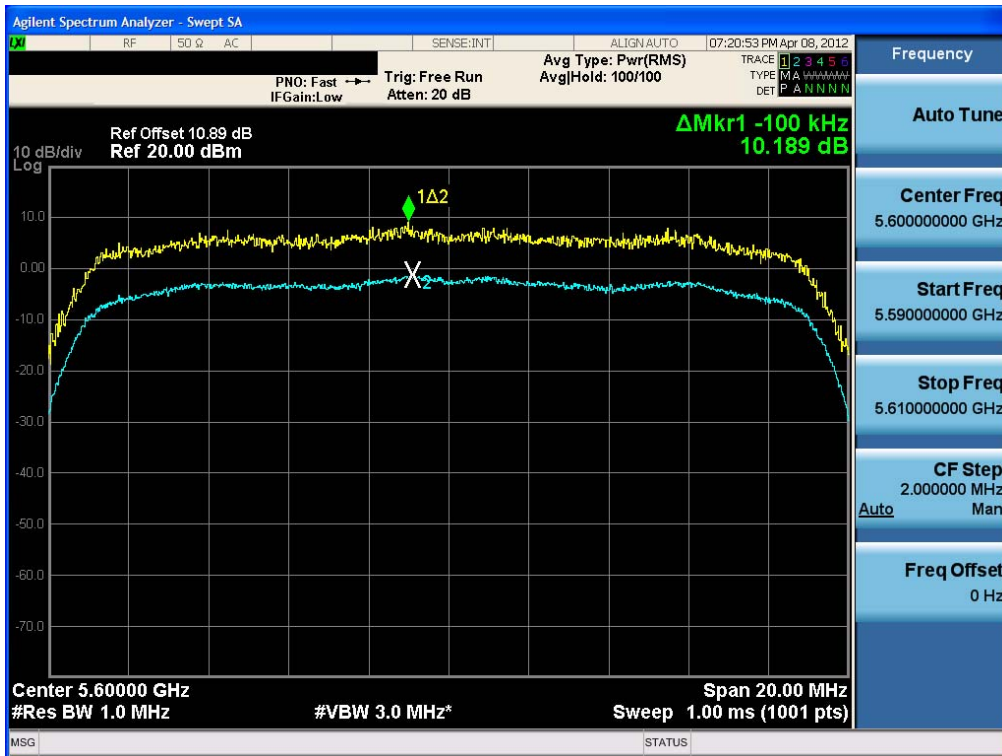


FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1204FR31-1	Date of Issue: May 09, 2012	EUT Type: Cellular/PCS GSM/GPRS/EDGE & Cellular WCDMA/HSDPA/HSUPA Phone with Bluetooth and WLAN/NFC	FCC ID: ZNFP940H

Peak Excursion Ratio (802.11n-CH 100)

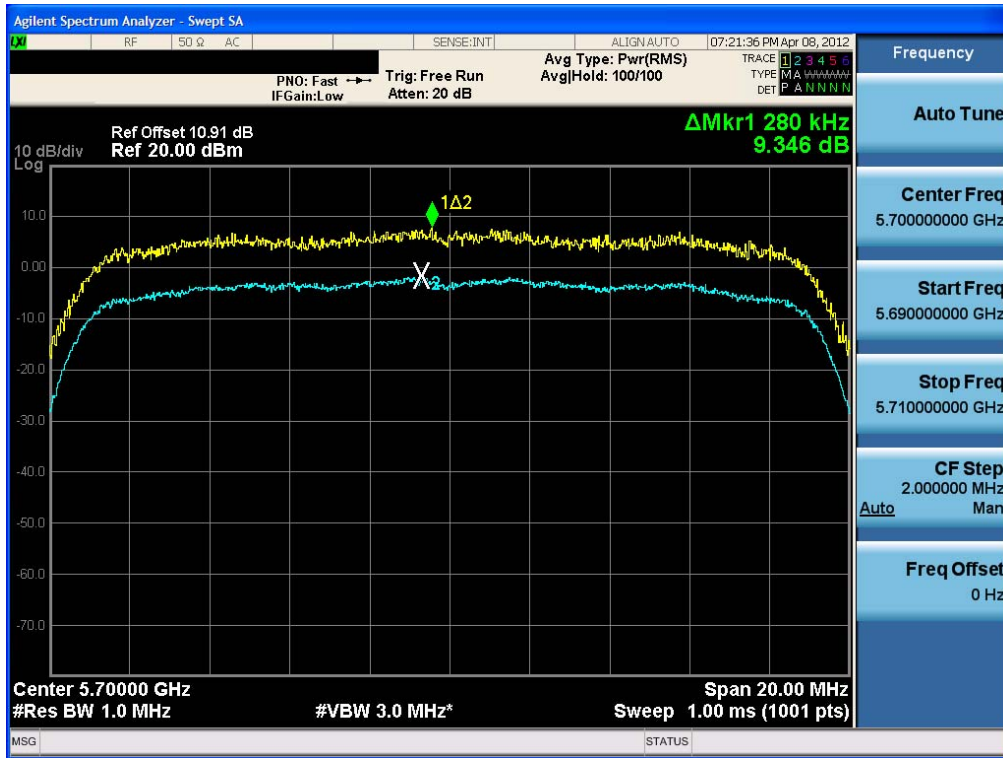


Peak Excursion Ratio (802.11n-CH 116)



FCC PT.15.247 TEST REPORT		FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1204FR31-1	Date of Issue: May 09, 2012	EUT Type: Cellular/PCS GSM/GPRS/EDGE & Cellular WCDMA/HSDPA/HSUPA Phone with Bluetooth and WLAN/NFC		FCC ID: ZNFP940H

Peak Excursion Ratio (802.11n-CH 140)



FCC PT.15.247 TEST REPORT		FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1204FR31-1	Date of Issue: May 09, 2012	EUT Type: Cellular/PCS GSM/GPRS/EDGE & Cellular WCDMA/HSDPA/HSUPA Phone with Bluetooth and WLAN/NFC		FCC ID: ZNFP940H

8.5 FREQUENCY STABILITY.

The EUT was placed inside an environmental chamber as the temperature in the chamber was varied between -30 °C and 50 °C. The temperature was incremented by 10 °C intervals and the unit was allowed to stabilize at each temperature before each measurement. The center frequency of the transmitting channel was evaluated at each temperature and the frequency deviation from the channel's center frequency was recorded.

OPERATING FREQUENCY: 5,200,000,000 Hz
 CHANNEL: 40
 REFERENCE VOLTAGE: 3.7 VDC

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
100%	3.7	+20(Ref)	5 200 012	11.84
100%		-30	5 200 013	12.6
100%		-20	5 200 009	9.4
100%		-10	5 200 013	13.1
100%		0	5 200 008	7.8
100%		+10	5 200 010	10.2
100%		+30	5 200 012	12.1
100%		+40	5 200 017	16.5
100%		+50	5 200 019	18.7
115%	3.3	+20	5 200 010	10.0
Batt. Endpoint	4.7	+20	5 200 010	9.8

OPERATING FREQUENCY: 5,300,000,000 Hz
 CHANNEL: 60
 REFERENCE VOLTAGE: 3.7 VDC

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
100%	3.7	+20(Ref)	5 300 010	10.01
100%		-30	5 300 013	12.8
100%		-20	5 300 011	11.2
100%		-10	5 300 010	9.8
100%		0	5 300 009	8.6
100%		+10	5 300 012	11.5
100%		+30	5 300 012	11.6
100%		+40	5 300 013	13.0
100%		+50	5 300 015	15.2
115%		3.3	+20	5 300 010
Batt. Endpoint	4.7	+20	5 300 010	9.6

OPERATING FREQUENCY: 5,600,000,000 Hz
 CHANNEL: 120
 REFERENCE VOLTAGE: 3.7 VDC

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
100%	3.7	+20(Ref)	5 600 011	10.84
100%		-30	5 600 018	18.1
100%		-20	5 600 017	16.6
100%		-10	5 600 012	12.3
100%		0	5 600 012	11.6
100%		+10	5 600 009	8.7
100%		+30	5 600 015	14.5
100%		+40	5 600 017	17.4
100%		+50	5 600 019	19.0
115%		3.3	+20	5 600 011
Batt. Endpoint	4.7	+20	5 600 010	10.2

8.6 RADIATED MEASUREMENT.

8.6.1 RADIATED SPURIOUS EMISSIONS.

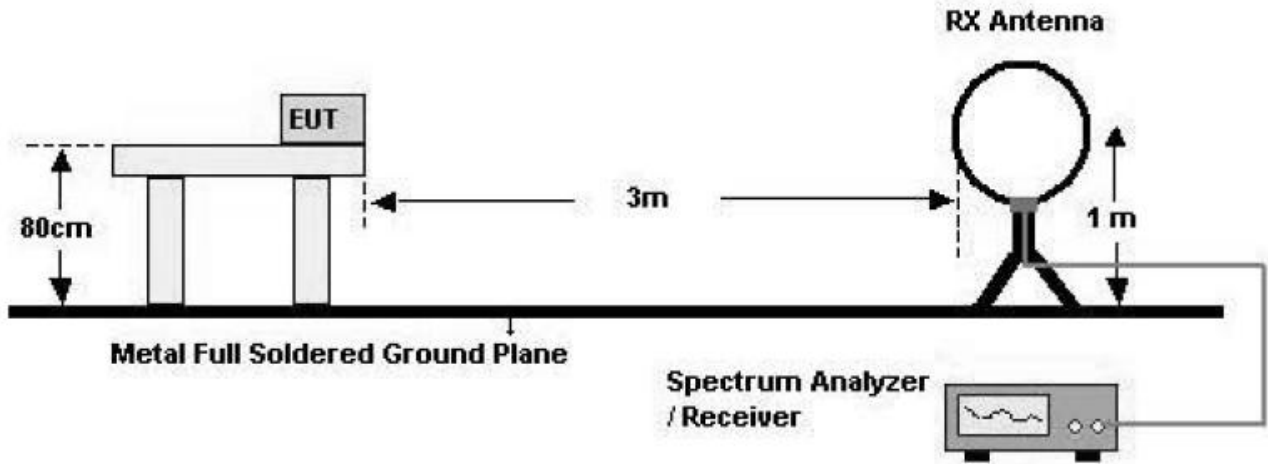
Test Requirements and limit, §15.205, §15.209

Frequency (MHz)	Field Strength (uV/m)	Measurement Distance (m)
0.009 – 0.490	2400/F(kHz)	300
0.490 – 1.705	24000/F(kHz)	30
1.705 – 30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

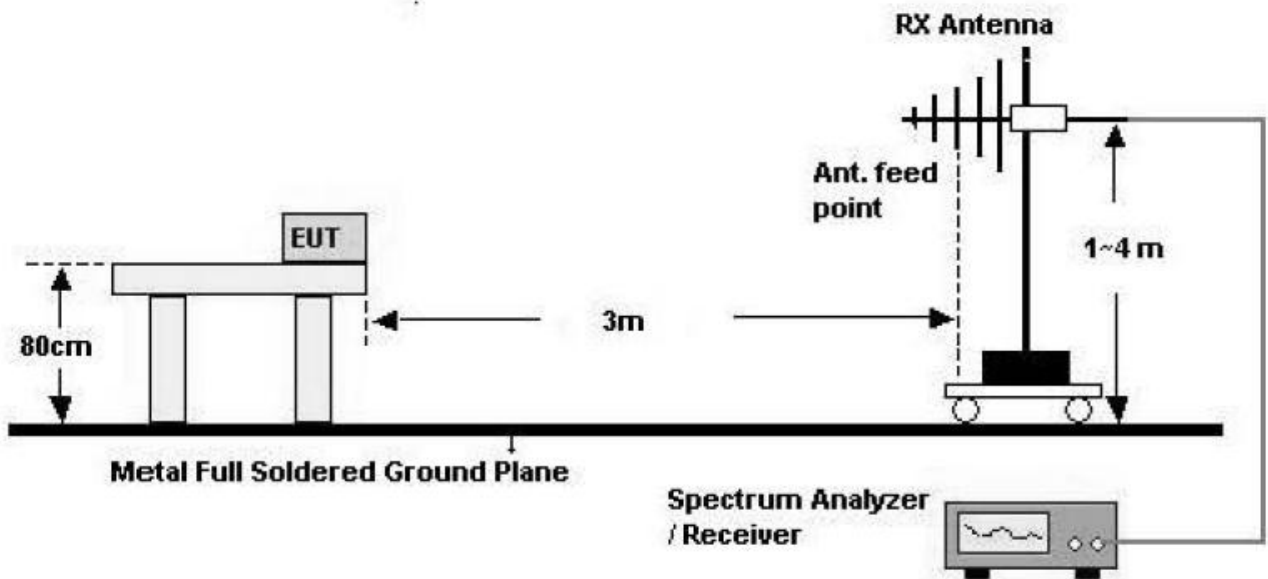
FCC PT.15.247 TEST REPORT		FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1204FR31-1	Date of Issue: May 09, 2012	EUT Type: Cellular/PCS GSM/GPRS/EDGE & Cellular WCDMA/HSDPA/HSUPA Phone with Bluetooth and WLAN/NFC		FCC ID: ZNFP940H

Test Configuration

Below 30 MHz

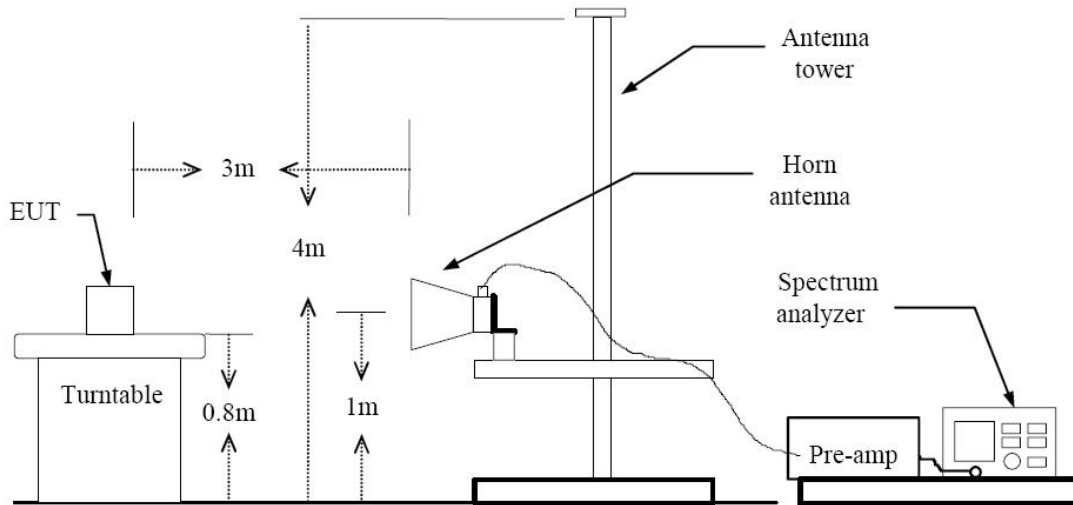


30 MHz - 1 GHz



FCC PT.15.247 TEST REPORT		FCC CERTIFICATION REPORT		www.hct.co.kr
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Above 1 GHz



TEST PROCEDURE

1. The EUT is placed on a turntable, which is 0.8 m above ground plane.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3 m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
6. Repeat above procedures until the measurements for all frequencies are complete.

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TEST RESULTS

9 kHz – 30MHz

Operation Mode: Normal Mode

Frequency	Reading	Ant. factor	Cable loss	Ant. POL	Total	Limit	Margin
MHz	dB μ V	dB /m	dB	(H/V)	dB μ V/m	dB μ V/m	dB
No Critical peaks found							

Notes:

1. Measuring frequencies from 9 kHz to the 30MHz.
2. The reading of emissions are attenuated more than 20 dB below the permissible limits or the field strength is too small to be measured.
3. Distance extrapolation factor = 40 log (specific distance / test distance) (dB)
4. Limit line = specific Limits (dBuV) + Distance extrapolation factor
5. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

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TEST RESULTS

Below 1 GHz

Operation Mode: Normal Mode

Frequency	Reading	Ant. factor	Cable loss	Ant. POL	Total	Limit	Margin
MHz	dB μ V	dB /m	dB	(H/V)	dB μ V/m	dB μ V/m	dB
No Critical peaks found							

Notes:

1. Measuring frequencies from 30 MHz to the 1 GHz.
2. Radiated emissions measured in frequency range from 30 MHz to 1000 MHz were made with an instrument using Quasi peak detector mode.
3. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

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Above 1 GHz

Band :	UNII 1
Operation Mode:	802.11 a
Transfer Rate:	6 Mbps
Operating Frequency	5180 MHz
Channel No.	36 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
10360	46.71	9.30	V	56.01	68.2	12.19	PK
10360	30.32	9.30	V	39.62	54	14.38	AV
15540	45.07	15.04	V	60.11	74	13.89	PK
15540	31.18	15.04	V	46.22	54	7.78	AV
10360	47.96	9.30	H	57.26	68.2	10.94	PK
10360	31.16	9.30	H	40.46	54	13.54	AV
15540	45.19	15.04	H	60.23	74	13.77	PK
15540	31.22	15.04	H	46.26	54	7.74	AV

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain
5. Spectrum setting:
 - a. Peak Setting 1 GHz – 40 GHz, RBW = 1 MHz, VBW = 1 MHz.
 - b. AV Setting 1 GHz – 40 GHz, RBW = 1 MHz, VBW = 10 Hz.
6. We have done 802.11a, 802.11n test. Worst case is 6 Mbps in 802.11a.
7. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

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Band : UNII 1
 Operation Mode: 802.11 a
 Transfer Rate: 6 Mbps
 Operating Frequency 5200 MHz
 Channel No. 40 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
10400	47.24	9.60	V	56.84	68.2	11.36	PK
10400	31.17	9.60	V	40.77	54	13.23	AV
15600	45.29	14.81	V	60.10	74	13.90	PK
15600	31.50	14.81	V	46.31	54	7.69	AV
10400	46.51	9.60	H	56.11	68.2	12.09	PK
10400	29.53	9.60	H	39.13	54	14.87	AV
15600	45.20	14.81	H	60.01	74	13.99	PK
15600	31.48	14.81	H	46.29	54	7.71	AV

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain
5. Spectrum setting:
 - a. Peak Setting 1 GHz – 40 GHz, RBW = 1 MHz, VBW = 1 MHz.
 - b. AV Setting 1 GHz – 40 GHz, RBW = 1 MHz, VBW = 10 Hz.
6. We have done 802.11a, 802.11n test. Worst case is 6 Mbps in 802.11a.
7. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

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Band : UNII 1
 Operation Mode: 802.11 a
 Transfer Rate: 6 Mbps
 Operating Frequency 5240 MHz
 Channel No. 48 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
10480	46.91	9.83	V	56.74	68.2	11.46	PK
10480	30.89	9.83	V	40.72	54	13.28	AV
15720	46.33	14.83	V	61.16	74	12.84	PK
15720	32.67	14.83	V	47.50	54	6.50	AV
10480	43.60	9.83	H	53.43	68.2	14.77	PK
10480	28.94	9.83	H	38.77	54	15.23	AV
15720	46.33	14.83	H	61.16	74	12.84	PK
15720	32.68	14.83	H	47.51	54	6.49	AV

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain
5. Spectrum setting:
 - a. Peak Setting 1 GHz – 40 GHz, RBW = 1 MHz, VBW = 1 MHz.
 - b. AV Setting 1 GHz – 40 GHz, RBW = 1 MHz, VBW = 10 Hz.
6. We have done 802.11a, 802.11n test. Worst case is 6 Mbps in 802.11a.
7. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

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Band :	UNII 2
Operation Mode:	802.11 a
Transfer Rate:	6 Mbps
Operating Frequency	5260 MHz
Channel No.	52 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
10520	40.84	9.86	V	50.70	68.2	17.50	PK
10520	27.98	9.86	V	37.84	54	16.16	AV
15780	45.74	14.94	V	60.68	74	13.32	PK
15780	32.43	14.94	V	47.37	54	6.63	AV
10520	40.65	9.86	H	50.51	68.2	17.69	PK
10520	27.32	9.86	H	37.18	54	16.82	AV
15780	45.98	14.94	H	60.92	74	13.08	PK
15780	32.43	14.94	H	47.37	54	6.63	AV

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain
5. Spectrum setting:
 - a. Peak Setting 1 GHz – 40 GHz, RBW = 1 MHz, VBW = 1 MHz.
 - b. AV Setting 1 GHz – 40 GHz, RBW = 1 MHz, VBW = 10 Hz.
6. We have done 802.11a, 802.11n test. Worst case is 6 Mbps in 802.11a.
7. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

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Band :	UNII 2
Operation Mode:	802.11 a
Transfer Rate:	6 Mbps
Operating Frequency	5300 MHz
Channel No.	60 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
10600	43.73	9.35	V	53.08	68.2	15.12	PK
10600	29.75	9.35	V	39.10	54	14.90	AV
15900	44.51	14.89	V	59.40	74	14.60	PK
15900	31.11	14.89	V	46.00	54	8.00	AV
10600	40.61	9.35	H	49.96	68.2	18.71	PK
10600	26.94	9.35	H	36.29	54	17.71	AV
15900	45.38	14.89	H	60.27	74	13.73	PK
15900	31.12	14.89	H	46.01	54	7.99	AV

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain
5. Spectrum setting:
 - a. Peak Setting 1 GHz – 40 GHz, RBW = 1 MHz, VBW = 1 MHz.
 - b. AV Setting 1 GHz – 40 GHz, RBW = 1 MHz, VBW = 10 Hz.
6. We have done 802.11a, 802.11n test. Worst case is 6 Mbps in 802.11a.
7. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

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Band :	UNII 2
Operation Mode:	802.11 a
Transfer Rate:	6 Mbps
Operating Frequency	5320 MHz
Channel No.	64 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
10640	43.21	9.46	V	52.67	74	21.33	PK
10640	28.91	9.46	V	38.37	54	15.63	AV
15960	44.27	15.06	V	59.33	74	14.68	PK
15960	30.77	15.06	V	45.83	54	8.18	AV
10640	39.54	9.46	H	49.00	74	25.00	PK
10640	26.52	9.46	H	35.98	54	18.02	AV
15960	44.69	15.06	H	59.75	74	14.26	PK
15960	30.75	15.06	H	45.81	54	8.20	AV

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain
5. Spectrum setting:
 - a. Peak Setting 1 GHz – 40 GHz, RBW = 1 MHz, VBW = 1 MHz.
 - b. AV Setting 1 GHz – 40 GHz, RBW = 1 MHz, VBW = 10 Hz.
6. We have done 802.11a, 802.11n test. Worst case is 6 Mbps in 802.11a.
7. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

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Band :	UNII 3
Operation Mode:	802.11 a
Transfer Rate:	6 Mbps
Operating Frequency	5500 MHz
Channel No.	100 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
11000	41.92	10.54	V	52.46	74	21.54	PK
11000	27.44	10.54	V	37.98	54	16.02	AV
16500	45.91	16.37	V	62.28	68.2	5.92	PK
16500	32.23	16.37	V	48.60	54	5.40	AV
11000	39.87	10.54	H	50.41	74	23.59	PK
11000	26.92	10.54	H	37.46	54	16.54	AV
16500	45.47	16.37	H	61.84	68.2	6.36	PK
16500	32.25	16.37	H	48.62	54	5.38	AV

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain
5. Spectrum setting:
 - a. Peak Setting 1 GHz – 40 GHz, RBW = 1 MHz, VBW = 1 MHz.
 - b. AV Setting 1 GHz – 40 GHz, RBW = 1 MHz, VBW = 10 Hz.
6. We have done 802.11a, 802.11n test. Worst case is 6 Mbps in 802.11a.
7. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

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Band :	UNII 3
Operation Mode:	802.11 a
Transfer Rate:	6 Mbps
Operating Frequency	5600 MHz
Channel No.	120 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
11200	43.79	10.16	V	53.95	74	20.05	PK
11200	29.19	10.16	V	39.35	54	14.65	AV
16800	45.19	18.26	V	63.45	68.2	4.75	PK
16800	32.14	18.26	V	50.40	54	3.60	AV
11200	38.54	10.16	H	48.70	74	25.30	PK
11200	25.27	10.16	H	35.43	54	18.57	AV
16800	45.48	18.26	H	63.74	68.2	4.46	PK
16800	32.14	18.26	H	50.40	54	3.60	AV

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain
5. Spectrum setting:
 - a. Peak Setting 1 GHz – 40 GHz, RBW = 1 MHz, VBW = 1 MHz.
 - b. AV Setting 1 GHz – 40 GHz, RBW = 1 MHz, VBW = 10 Hz.
6. We have done 802.11a, 802.11n test. Worst case is 6 Mbps in 802.11a.
7. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

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Band :	UNII 3
Operation Mode:	802.11 a
Transfer Rate:	6 Mbps
Operating Frequency	5700 MHz
Channel No.	140 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
11400	45.62	10.21	V	55.83	74	18.17	PK
11400	29.93	10.21	V	40.14	54	13.86	AV
17100	45.81	18.86	V	64.67	68.2	3.53	PK
17100	31.77	18.86	V	50.63	54	3.37	AV
11400	38.54	10.21	H	48.75	74	25.25	PK
11400	25.32	10.21	H	35.53	54	18.47	AV
17100	44.90	18.86	H	63.76	68.2	4.44	PK
17100	31.79	18.86	H	50.65	54	3.35	AV

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain
5. Spectrum setting:
 - a. Peak Setting 1 GHz – 40 GHz, RBW = 1 MHz, VBW = 1 MHz.
 - b. AV Setting 1 GHz – 40 GHz, RBW = 1 MHz, VBW = 10 Hz.
6. We have done 802.11a, 802.11n test. Worst case is 6 Mbps in 802.11a.
7. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

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8.6.2 RADIATED RESTRICTED BAND EDGE MEASUREMENTS

Test Requirements and limit, §15.247(d) §15.205, §15.209

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in section 15.209(a) (See section 15.205(c)).

Band :	UNII 1
Operation Mode:	802.11 a
Transfer Rate:	6 Mbps
Operating Frequency	5180 MHz
Channel No.	36 Ch

Frequency [MHz]	Reading dBuV	AN.+CL+AMP+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
5150.0	58.49	4.18	H	62.67	74	11.33	PK
5150.0	38.66	4.18	H	42.84	54	11.16	AV
5150.0	57.58	4.18	V	61.76	74	12.24	PK
5150.0	38.39	4.18	V	42.57	54	11.43	AV



Band : UNII 2
 Operation Mode: 802.11 a
 Transfer Rate: 6 Mbps
 Operating Frequency 5320 MHz
 Channel No. 64 Ch

Frequency [MHz]	Reading dBuV	AN.+CL+AMP+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
5350.0	53.33	4.80	H	58.13	74	15.87	PK
5350.0	36.85	4.80	H	41.65	54	12.35	AV
5350.0	52.13	4.80	V	56.93	74	17.07	PK
5350.0	36.85	4.80	V	41.65	54	12.35	AV

Band : UNII 3
 Operation Mode: 802.11 a
 Transfer Rate: 6 Mbps
 Operating Frequency 5500 MHz
 Channel No. 100 Ch

Frequency [MHz]	Reading dBuV	AN.+CL+AMP+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
5460.0	50.99	5.04	H	56.03	68.2	12.17	PK
5460.0	36.76	5.04	H	41.80	54	12.20	AV
5460.0	49.73	5.04	V	54.77	68.2	13.43	PK
5460.0	36.68	5.04	V	41.72	54	12.28	AV

Notes:

1. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + ATT
2. Spectrum setting:
 - a. Peak Setting 1 GHz – 26 GHz, RBW = 1 MHz, VBW = 1 MHz.
 - b. AV Setting 1 GHz – 26 GHz, RBW = 1 MHz, VBW = 10 Hz.
3. We have done 802.11a/n mode test. . Worst case of EUT is 6 Mbps in 802.11a
4. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

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8.7 POWERLINE CONDUCTED EMISSIONS

Test Requirements and limit, §15.207

For an intentional radiator which is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed 250 microvolts (The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz). The limits at specific frequency range is listed as follows:

Frequency Range (MHz)	Limits (dB μ V)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50

Compliance with this provision shall be based on the measurement of the radio frequency voltage between each power line (LINE and NEUTRAL) and ground at the power terminals.

Test Configuration

See test photographs attached in Appendix 1 for the actual connections between EUT and support equipment.

TEST PROCEDURE

1. The EUT is placed on a wooden table 80 cm above the reference groundplane.
2. The EUT is connected via LISN to a test power supply.
3. The measurement results are obtained as described below:
4. Detectors – Quasi Peak and Average Detector.

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■ RESULT PLOTS

Conducted Emissions (Line 1)

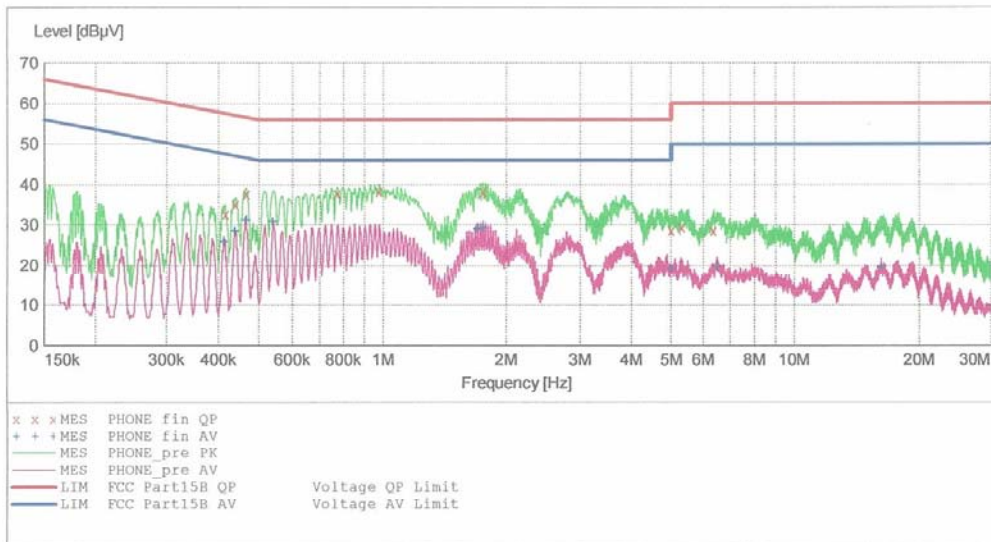
HCT

EMC

EUT: LG-P940h
 Manufacturer: LGE
 Operating Condition: WLAN MODE(5 GHz)
 Test Site: SHIELD ROOM
 Operator: JS LEE
 Test Specification: FCC PART15 CLASS B
 Comment: H

SCAN TABLE: "FCC PART 15 B(H)"

Start Frequency	Stop Frequency	Step Width	Detector	Meas. Time	IF Bandw.	Transducer
150.0 kHz	500.0 kHz	1.0 kHz	MaxPeak	10.0 ms	9 kHz	None
500.0 kHz	5.0 MHz	4.0 kHz	Average	10.0 ms	9 kHz	None
5.0 MHz	30.0 MHz	4.0 kHz	MaxPeak	10.0 ms	9 kHz	None
			Average			



MEASUREMENT RESULT: "PHONE_fin_QP"

4/24/2012 9:09PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Line	PE
0.415010	32.80	10.1	58	24.7	---	---
0.439010	35.10	10.1	57	22.0	---	---
0.466010	37.70	10.1	57	18.9	---	---
0.772000	37.80	10.1	56	18.2	---	---
0.980000	38.30	10.1	56	17.7	---	---
1.756000	38.20	10.2	56	17.8	---	---
5.000000	28.70	10.5	56	27.3	---	---
5.308000	29.60	10.5	60	30.4	---	---
6.364000	28.70	10.7	60	31.3	---	---

MEASUREMENT RESULT: "PHONE_fin AV"

4/24/2012 9:10PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Line	PE
0.412010	25.80	10.1	48	21.8	---	---
0.438010	28.50	10.1	47	18.6	---	---
0.466010	31.20	10.1	47	15.4	---	---
0.540000	30.80	10.1	46	15.2	---	---
1.704000	29.00	10.2	46	17.0	---	---
1.756000	29.30	10.2	46	16.7	---	---
5.000000	19.20	10.5	46	26.8	---	---
6.504000	19.70	10.7	50	30.3	---	---
16.124000	19.40	11.3	50	30.6	---	---

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Conducted Emissions (Line 2)

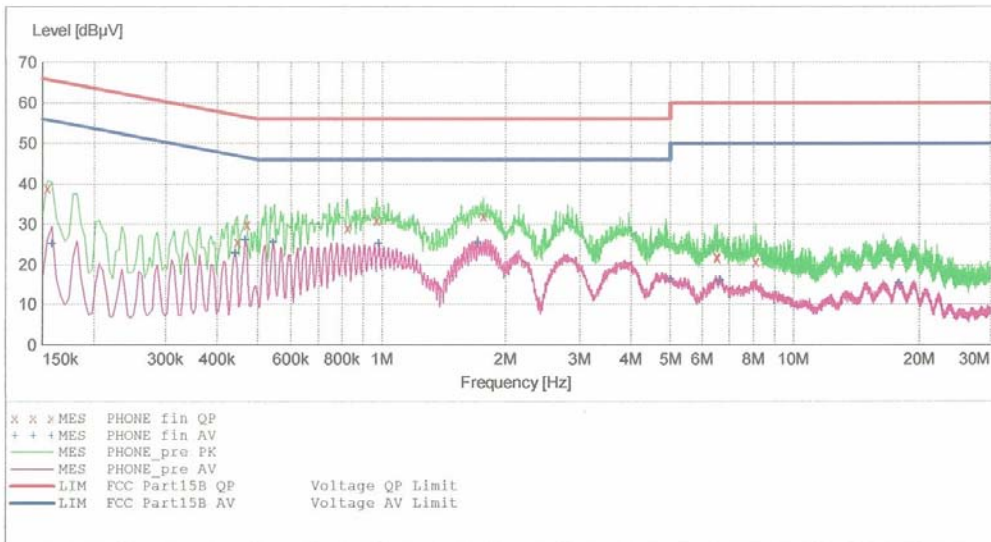
HCT

EMC

EUT: LG-P940h
 Manufacturer: LGE
 Operating Condition: WLAN MODE(5 GHz)
 Test Site: SHIELD ROOM
 Operator: JS LEE
 Test Specification: FCC PART15 CLASS B
 Comment: N

SCAN TABLE: "FCC PART 15 B(N)"

Short Description:			FCC PART 15 CLASS B			
Start Frequency	Stop Frequency	Step Width	Detector	Meas. Time	IF Bandw.	Transducer
150.0 kHz	500.0 kHz	4.0 kHz	MaxPeak	10.0 ms	9 kHz	None
			Average			
500.0 kHz	5.0 MHz	4.0 kHz	MaxPeak	10.0 ms	9 kHz	None
			Average			
5.0 MHz	30.0 MHz	4.0 kHz	MaxPeak	10.0 ms	9 kHz	None
			Average			



MEASUREMENT RESULT: "PHONE_fin_QP"

4/24/2012 9:05PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Line	PE
0.154010	39.00	10.0	66	26.8	---	---
0.446010	25.70	10.1	57	31.3	---	---
0.470010	30.00	10.0	57	26.5	---	---
0.824000	29.10	10.1	56	26.9	---	---
0.972000	31.10	10.1	56	24.9	---	---
1.768000	32.00	10.2	56	24.0	---	---
6.508000	22.20	10.7	60	37.8	---	---
6.536000	21.70	10.7	60	38.3	---	---
8.120000	20.90	10.8	60	39.1	---	---

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MEASUREMENT RESULT: "PHONE_fin AV"

4/24/2012 9:05PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Line	PE
0.158010	25.20	10.0	56	30.3	---	---
0.442010	22.90	10.1	47	24.1	---	---
0.466010	26.30	10.1	47	20.3	---	---
0.544000	25.60	10.1	46	20.4	---	---
0.984000	25.40	10.1	46	20.6	---	---
1.716000	25.50	10.2	46	20.5	---	---
5.000000	16.20	10.5	46	29.8	---	---
6.628000	15.90	10.7	50	34.1	---	---
17.780000	15.30	11.3	50	34.7	---	---

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9. LIST OF TEST EQUIPMENT

Manufacturer	Model / Equipment	Calibration Interval	Calibration Due	Serial No.
Rohde & Schwarz	ESH2-Z5/ LISN	Annual	02/03/2013	861741/013
Schwarzbeck	VULB 9168/ TRILOG Antenna	Biennial	02/09/2013	200
Rohde & Schwarz	ESI 40 / EMI TEST RECEIVER	Annual	05/03/2013	831564103
Agilent	E4440A/ Spectrum Analyzer	Annual	05/02/2013	US45303008
Agilent	N9020A/ SIGNAL ANALYZER	Annual	09/23/2012	MY51110020
HD	MA240/ Antenna Position Tower	N/A	N/A	556
EMCO	1050/ Turn Table	N/A	N/A	114
HD GmbH	HD 100/ Controller	N/A	N/A	13
HD GmbH	KMS 560/ SlideBar	N/A	N/A	12
Rohde & Schwarz	ESH3-Z2/ PULSE LIMITER	Annual	08/01/2012	375.8810.352
Rohde & Schwarz	SCU-18/ Signal Conditioning Unit	Annual	09/19/2012	10094
MITEQ	AFS44-00102650-42-10P-44-PS/ POWER AMP	Annual	09/23/2012	1532439
MITEQ	AMF-6B-180265-35-10P / POWER AMP	Annual	04/16/2013	667624
CERNEX	CBL26405040 / POWER AMP	Annual	04/16/2013	19660
Schwarzbeck	BBHA 9120D/ Horn Antenna	Biennial	10/17/2013	937
Schwarzbeck	BBHA9170 / Horn Antenna(15 GHz ~ 40 GHz)	Biennial	10/26/2012	BBHA9170342
Rohde & Schwarz	FSP / Spectrum Analyzer	Annual	02/09/2013	839117/011
Agilent	E4416A /Power Meter	Annual	11/07/2012	GB41291412
Agilent	E9327A /POWER SENSOR	Annual	05/02/2013	MY4442009
Wainwright Instrument	WHF3.3/18G-10EF / High Pass Filter	Annual	05/02/2013	1
Wainwright Instrument	WHNX6.0/26.5G-6SS / High Pass Filter	Annual	05/02/2013	1
Wainwright Instrument	WHNX7.0/18G-8SS / High Pass Filter	Annual	05/02/2013	29
Wainwright Instrument	WRCJ2400/2483.5-2370/2520-60/14SS/Band Reject Filter	Annual	05/02/2013	1
Hewlett Packard	11636B/Power Divider	Annual	11/07/2012	11377
Hewlett Packard	11667B / Power Splitter	Annual	11/04/2012	10126
DIGITAL	EP-3010 /DC POWER SUPPLY	Annual	11/07/2012	3110117
ITECH	IT6720 / DC POWER SUPPLY	Annual	11/07/2012	010002156287001199
TESCOM	TC-3000C / BLUETOOTH TESTER	Annual	11/14/2012	3000C000276
Rohde & Schwarz	CBT / BLUETOOTH TESTER	Annual	05/02/2013	100422
EMCO	6502.LOOP ANTENNA	Biennial	01/11/2014	9009-2536
MITEQ	AMF-6D-001180-35-20P/ POWER AMP	Annual	12/26/2012	990893
Agilent	8493C / Attenuator(10 dB)	Annual	09/23/2012	76649

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