



HCT CO., LTD.

CERTIFICATION DIVISION

105-1, JANGAM-RI, MAJANG-MYEON, ICHEON-SI, GYEONGGI-DO, KOREA

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CERTIFICATE OF COMPLIANCE

FCC PART 27 Certification

Applicant Name:

SAMSUNG Electronics Co., Ltd.
416, Maetan-3dong, Yeongtong-gu, Suwon-si,
Gyeonggi-do, Korea

Date of Issue: August 07, 2012

Test Site/Location:

HCT CO., LTD., 105-1, Jangam-ri, Majang-Myeon,
Icheon-si, Gyeonggi-Do, Korea

Test Report No.: HCTR1208FR08

FCC ID : **A3LSLS-BD106Q**

APPLICANT : **SAMSUNG Electronics Co., Ltd.**

EUT Type : RRH (Remote Radio Head)
Manufacturer : SAMSUNG Electronics Co., Ltd.
Model name : SLS-BD106Q
Frequency of Operation : 2 496 MHz ~ 2 690 MHz
TX Output Power : 80 W (20 W * 4)
FCC Rule Part(s) : FCC Part 27 Subpart (c).
Emission Designator : 9M14G7D(QPSK), 9M16W7D(16QAM/64QAM)
Test Procedure(s) : ANSI/TIA-603C-2004
Application Type : Original Equipment
Data of issue : August 07, 2012

Engineering Statement:

The measurements shown in this report were made in accordance with the procedures indicated, and the emissions from this equipment were found to be within the limits applicable. I assume full responsibility for the accuracy and completeness of these measurements, and for the qualifications of all persons taking them. It is further stated that upon the basis of the measurements made, the equipment tested is capable of operation in accordance with the requirements of FCC Part 27 of the FCC Rules under normal use and maintenance.


Report prepared by
: Chang Seok Choi
Test engineer of RF Team


Approved by
: Sang Jun Lee
Manager of RF Team

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Revision

TEST REPORT NO.	DATE	DESCRIPTION
HCTR1208FR08	August 07, 2012	First Approval Report

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1. GENERAL INFORMATION

1.1. CLIENT INFORMATION

Company	Samsung Electronics Co., Ltd.
Contact Point	416, Maetan-3dong, Yeongtong-gu, Suwon-si, Gyeonggi-do, Korea
Contact person	Name: JOON-HO LEE / Senior Research Engineer E-mail : joonho@samsung.com Tel: +82-31-279-3552 Fax: +82-31-279-7576

1.2. PRODUCT INFORMATION

EUT TYPE	RRH (Remote Radio Head)
EMISSION DESIGNATOR	9M14G7D(QPSK), 9M16W7D(16QAM/64QAM)
OPERATING FREQUENCY	2 496 MHz ~ 2 690 MHz
TX OUTPUT POWER	10W @avg power per carrier/sector 20W @avg power per carrier/sector, power boosting
CHANNEL BANDWIDTH	WiMAX : 10MHz
MODULATION TYPE	OFDMA (QPSK, 16QAM, 64QAM)
MAXIMUM NUMBER OF CARRIERS/SECTORS	2 Carriers / 3 Sectors
SYSTEM INPUT VOLTAGE	DC - 48 V

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1.3. INTRODUCTION OF EUT

The U-RAS Flexible V2, RAS of Mobile WiMAX, is controlled by ACR and connects Mobile WiMAX calls to MS.

The U-RAS Flexible V2 interfaces with MS via a wireless channel observing the Mobile WiMAX standard (IEEE 802.16) and provides high-speed data service and multimedia service in wireless broadband.

To this end, the U-RAS Flexible V2 provides the following functions:

modulation/demodulation of packet traffic signal, scheduling and radio bandwidth allocation to manage air resources efficiently and ensure Quality of Service (QoS), Automatic Repeat request (ARQ) processing, ranging function, connection control function to transmit the information on the U-RAS Flexible V2 and set/hold/disconnect the packet call connection, handover control and ACR interface function and system operation management function. Physically, the U-RAS Flexible V2 consists of a Digital Unit (DU) and a Mobile WiMAX base station Remote Radio Head (RRH).

The RRH is located remotely from the DU. The DU is a digital unit of 19 in. shelf form and can be installed in an indoor or outdoor 19 in. rack. It supports a capacity up to 2Carrier/3Sector. The DU is operated in omni or sector mode depending on the features of the installation location.

An RRH is a standalone RF unit. It is installed on an outdoor wall or pole.

U-RAS Flexible V2 supports 2Carrier/3Sector (6 subcell).

※ The EUT can be operated at power boosting mode.

Power boosting mode transmits 2 FA per 1 port at the same time.

So, the EUT's maximum output power is 80 W (10 W * 2 FA * 4 ports)

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2. TEST SUMMARY

2.1. STANDARDS

The following tests were conducted on a sample of the equipment for the purpose of demonstrating compliance With **FCC Part 27**

SECTION	TEST ITEMS	RESULTS
2.1046, 27.50(h)	Conducted Output Power	Compliant
2.1049, 27.53(m)	Occupied Bandwidth	Compliant
2.1051, 27.53(m)	Spurious Emissions at Antenna Terminals	Compliant
2.1051, 27.53(m)	Band edge	Compliant
2.1053, 27.53(m)	Spurious Radiated Emissions.	Compliant
2.1055(a)(1), 27.54	Frequency Stability over Temperature variation	Compliant
2.1055(d), 27.54	Frequency stability over Voltage variation	Compliant

2.2. MODE OF OPERATION DURING THE TEST

The EUT was operated in a manner representative of the typical usage of the equipment.

During all testing, system components were manipulated within the confines of typical usage to maximize each emission. All Modulation (QPSK, 16QAM, and 64QAM) modes were tested, and the worst case was recorded in this test report.

The device does not supply antenna(s) with the system, so the dummy loads were connected to the RF output ports for radiated spurious emission testing.

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3. STANDARDS ENVIRONMENTAL TEST CONDITIONS

Temperature :	+ 15 °C to + 35 °C
Relative humidity:	30 % to 60 %
Air pressure	860 mbar to 1060 mbar

4. TEST EQUIPMENT

Manufacturer	Model / Equipment	Serial No.	Calibration Due
Schwarzbeck	BBHA 9120D / Double Ridged Horn Antenna	147	05/15/2014
Schwarzbeck	BBHA 9120D / Double Ridged Horn Antenna	937	10/17/2013
Schwarzbeck	VULB 9168 / TRILOG Antenna	9168-200	02/19/2013
HD	MA240 / Antenna Position Tower	556	N/A
EMCO	1050 / Turn Table	114	N/A
HD GmbH	HD 100 / Controller	13	N/A
HD GmbH	KMS 560 / SlideBar	12	N/A
MITEQ	AMF-6B-180265-35-10P / POWER AMP	667624	04/16/2013
Agilent	N9020A /Signal Analyzer	US46220219	05/02/2013
Agilent	6674A / DC Power Supply	3501A00901	05/02/2013
WEINSCHL	67-30-33 / Attenuator	BU5347	11/07/2012
WEINSCHL	67-30-33 / Attenuator	BR0530	11/07/2012
WEINSCHL	AF9003-69-31 / Attenuator	11787	11/07/2012
WEINSCHL	AF9003-69-31 / Attenuator	5701	11/07/2012
Nang-Yeoul	NY-THR18750 / Temperature Chamber	NY-2009012201A	11/08/2012

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5. CONDUCTED OUTPUT POWER

5.1. Applicable Standard

According to FCC §2.1046 & 27.50(h)

1) *Main, booster and base stations.* (i) The maximum EIRP of a main, booster or base station shall not exceed $33 \text{ dBW} + 10\log(X/Y) \text{ dBW}$, where X is the actual channel width in MHz and Y is either 6 MHz if prior to transition or the station is in the MBS following transition or 5.5 MHz if the station is in the LBS and UBS following transition, except as provided in paragraph (h)(1)(ii) of this section.

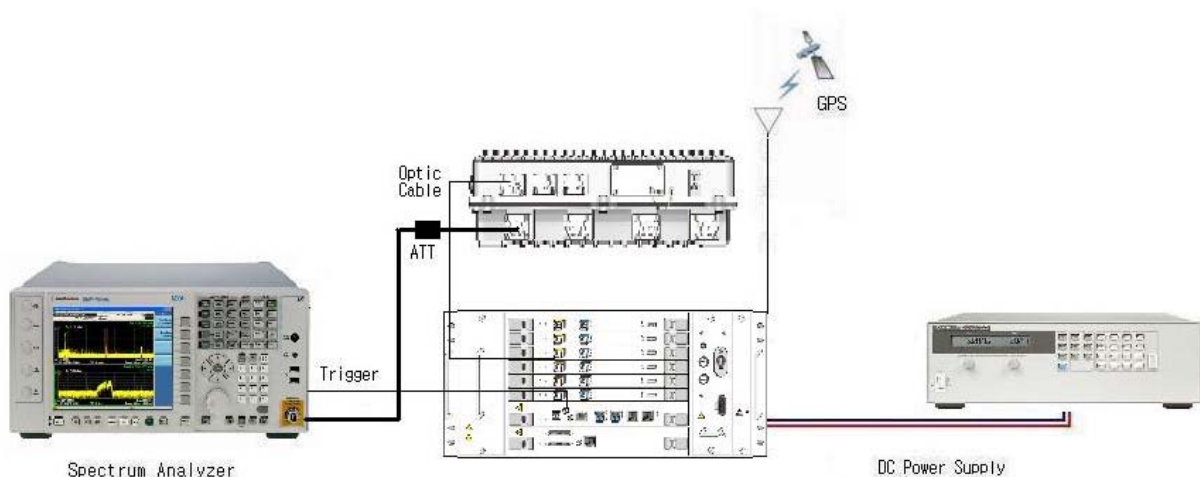
5.2. Test Equipment List and Details

Manufacturer	Model / Equipment	Serial No.	Calibration Due
Agilent	N9020A /Signal Analyzer	US46220219	05/02/2013
Agilent	6674A / DC Power Supply	3501A00901	05/02/2013
WEINSCHEL	67-30-33 / Attenuator	BU5347	11/07/2012
WEINSCHEL	67-30-33 / Attenuator	BR0530	11/07/2012
WEINSCHEL	AF9003-69-31 / Attenuator	11787	11/07/2012
WEINSCHEL	AF9003-69-31 / Attenuator	5701	11/07/2012

5.3. Test Procedure

The RF output of the transmitter was connected to the input of the spectrum analyzer through sufficient attenuation.

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According to FCC §2.1046 (a), for transmitters other than single sideband, independent sideband and controlled carrier radiotelephone, power output shall be measured at the RF output terminals when the transmitter is adjusted in accordance with the tune-up procedure to give the values of current and voltage on the circuit elements specified in § 2.1033(c). The electrical characteristics of the radio frequency load attached to the output terminals when this test is made shall be stated.

- 1) The radio frequency load attached to the EUT antenna terminal was 50 Ohm. The loss of the cables the test system is calibrated to correct the reading.
- 2) The spectrum analyzer was set to RMS Detector function and Average mode.
- 3) The resolution bandwidth of the spectrum analyzer was comparable to the emission bandwidth.

5.4. Test Result

: PASS

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5.4.1. Test Data at Output Port 1

Modulation	Frequency	Measured Output Power	
		dBm	W
QPSK	2508.5	39.57	9.0573
	2630.5	39.64	9.2045
	2683.5	39.64	9.2045
16QAM	2508.5	39.54	8.9950
	2630.5	39.66	9.2470
	2683.5	39.62	9.1622
64QAM	2508.5	39.51	8.9331
	2630.5	39.66	9.2470
	2683.5	39.64	9.2045

5.4.2. Test Data at Output Port 2

Modulation	Frequency	Measured Output Power	
		dBm	W
QPSK	2508.5	39.68	9.2897
	2630.5	39.72	9.3756
	2683.5	39.70	9.3325
16QAM	2508.5	39.67	9.2683
	2630.5	39.68	9.2897
	2683.5	39.62	9.1622
64QAM	2508.5	39.48	8.8716
	2630.5	39.45	8.8105
	2683.5	39.59	9.0991

5.4.3. Test Data at Output Port 3

Modulation	Frequency	Measured Output Power	
		dBm	W
QPSK	2508.5	39.69	9.3111
	2630.5	39.57	9.0573
	2683.5	39.36	8.6298
16QAM	2508.5	39.68	9.2897
	2630.5	39.52	8.9537
	2683.5	39.30	8.5114
64QAM	2508.5	39.70	9.3325
	2630.5	39.52	8.9537
	2683.5	39.26	8.4334

5.4.4. Test Data at Output Port 4

Modulation	Frequency	Measured Output Power	
		dBm	W
QPSK	2508.5	39.53	8.9743
	2630.5	39.67	9.2683
	2683.5	39.44	8.7902
16QAM	2508.5	39.44	8.7902
	2630.5	39.67	9.2683
	2683.5	39.48	8.8716
64QAM	2508.5	39.39	8.6896
	2630.5	39.66	9.2470
	2683.5	39.51	8.9331

5.4.5. Test Data at Output Port 1 (Mobile WiMax 2 Carriers)

Modulation	Frequency	Measured Output Power	
		dBm	W
QPSK	2513.5 (2508.5 & 2518.5)	42.77	18.9234
	2635.5 (2630.5 & 2640.5)	42.95	19.7242
	2678.5 (2673.5 & 2683.5)	42.75	18.8365
16QAM	2513.5 (2508.5 & 2518.5)	42.80	19.0546
	2635.5 (2630.5 & 2640.5)	42.96	19.7697
	2678.5 (2673.5 & 2683.5)	42.80	19.0546
64QAM	2513.5 (2508.5 & 2518.5)	42.80	19.0546
	2635.5 (2630.5 & 2640.5)	42.95	19.7242
	2678.5 (2673.5 & 2683.5)	42.80	19.0546

5.4.6. Test Data at Output Port 2 (Mobile WiMax 2 Carriers)

Modulation	Frequency	Measured Output Power	
		dBm	W
QPSK	2513.5 (2508.5 & 2518.5)	42.94	19.6789
	2635.5 (2630.5 & 2640.5)	43.05	20.1837
	2678.5 (2673.5 & 2683.5)	42.97	19.8153
16QAM	2513.5 (2508.5 & 2518.5)	42.94	19.6789
	2635.5 (2630.5 & 2640.5)	43.19	20.8449
	2678.5 (2673.5 & 2683.5)	42.98	19.8610
64QAM	2513.5 (2508.5 & 2518.5)	42.88	19.4089
	2635.5 (2630.5 & 2640.5)	43.17	20.7491
	2678.5 (2673.5 & 2683.5)	42.80	19.0546

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5.4.7. Test Data at Output Port 3 (Mobile WiMax 2 Carriers)

Modulation	Frequency	Measured Output Power	
		dBm	W
QPSK	2513.5 (2508.5 & 2518.5)	43.05	20.1837
	2635.5 (2630.5 & 2640.5)	43.05	20.1837
	2678.5 (2673.5 & 2683.5)	42.85	19.2753
16QAM	2513.5 (2508.5 & 2518.5)	43.01	19.9986
	2635.5 (2630.5 & 2640.5)	43.00	19.9526
	2678.5 (2673.5 & 2683.5)	42.87	19.3642
64QAM	2513.5 (2508.5 & 2518.5)	43.04	20.1372
	2635.5 (2630.5 & 2640.5)	42.99	19.9067
	2678.5 (2673.5 & 2683.5)	42.86	19.3197

5.4.8. Test Data at Output Port 4 (Mobile WiMax 2 Carriers)

Modulation	Frequency	Measured Output Power	
		dBm	W
QPSK	2513.5 (2508.5 & 2518.5)	43.14	20.6063
	2635.5 (2630.5 & 2640.5)	43.12	20.5116
	2678.5 (2673.5 & 2683.5)	43.06	20.2302
16QAM	2513.5 (2508.5 & 2518.5)	43.17	20.7491
	2635.5 (2630.5 & 2640.5)	43.11	20.4645
	2678.5 (2673.5 & 2683.5)	43.04	20.1372
64QAM	2513.5 (2508.5 & 2518.5)	43.18	20.7970
	2635.5 (2630.5 & 2640.5)	43.15	20.6538
	2678.5 (2673.5 & 2683.5)	42.86	19.3197

5.4.9. Measure-and-sum data at Output Port 1&2&3&4

Modulation	Frequency	Measured Output Power
		W
QPSK	2513.5 (2508.5 & 2518.5)	79.3923
	2635.5 (2630.5 & 2640.5)	80.6032
	2678.5 (2673.5 & 2683.5)	78.1573
16QAM	2513.5 (2508.5 & 2518.5)	79.4812
	2635.5 (2630.5 & 2640.5)	81.0317
	2678.5 (2673.5 & 2683.5)	78.4170
64QAM	2513.5 (2508.5 & 2518.5)	79.3977
	2635.5 (2630.5 & 2640.5)	81.0338
	2678.5 (2673.5 & 2683.5)	76.7486

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5.4.10. Plot Data for Output Port 1 (Conducted Output Power)

(QPSK Low Channel)



(QPSK Middle Channel)



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(QPSK High Channel)

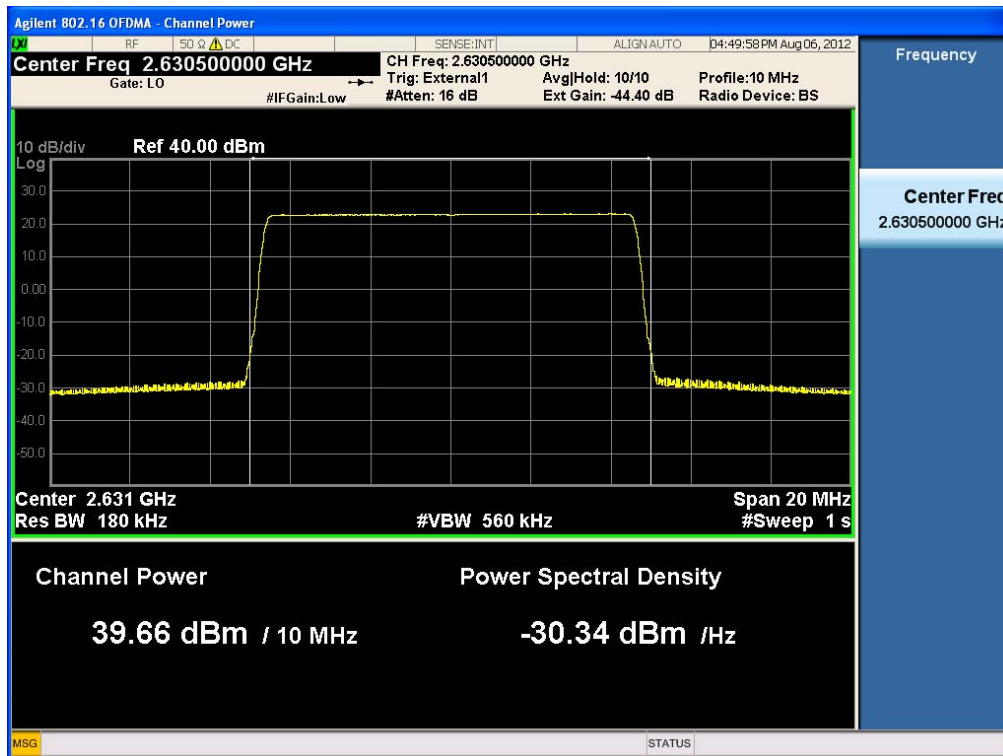


(16QAM Low Channel)

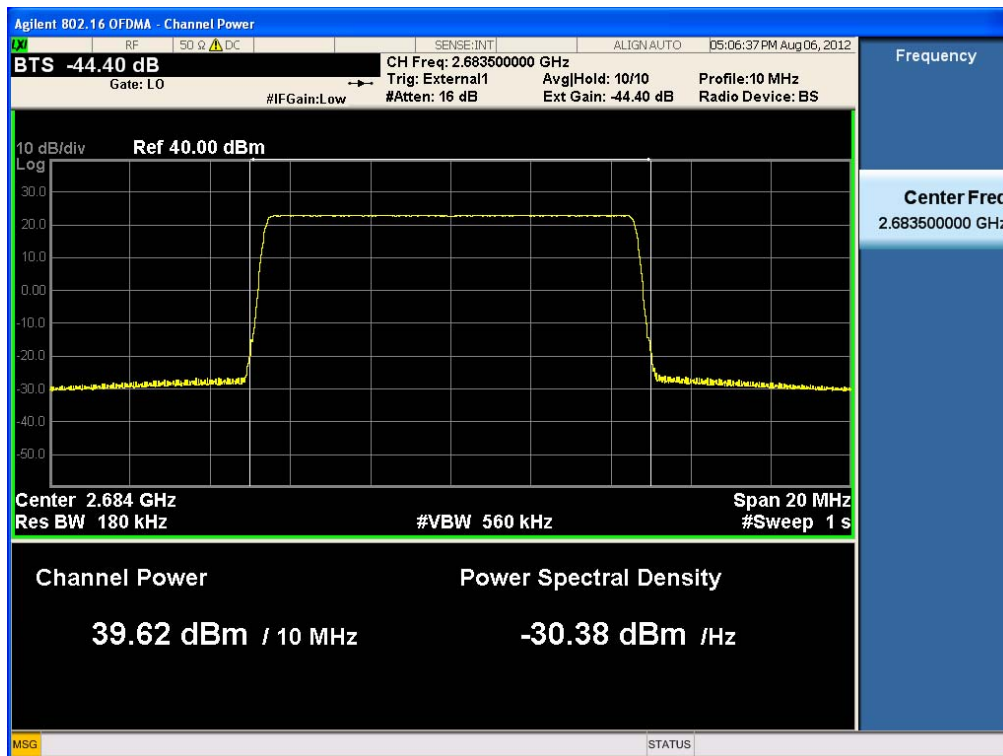


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(16QAM Middle Channel)

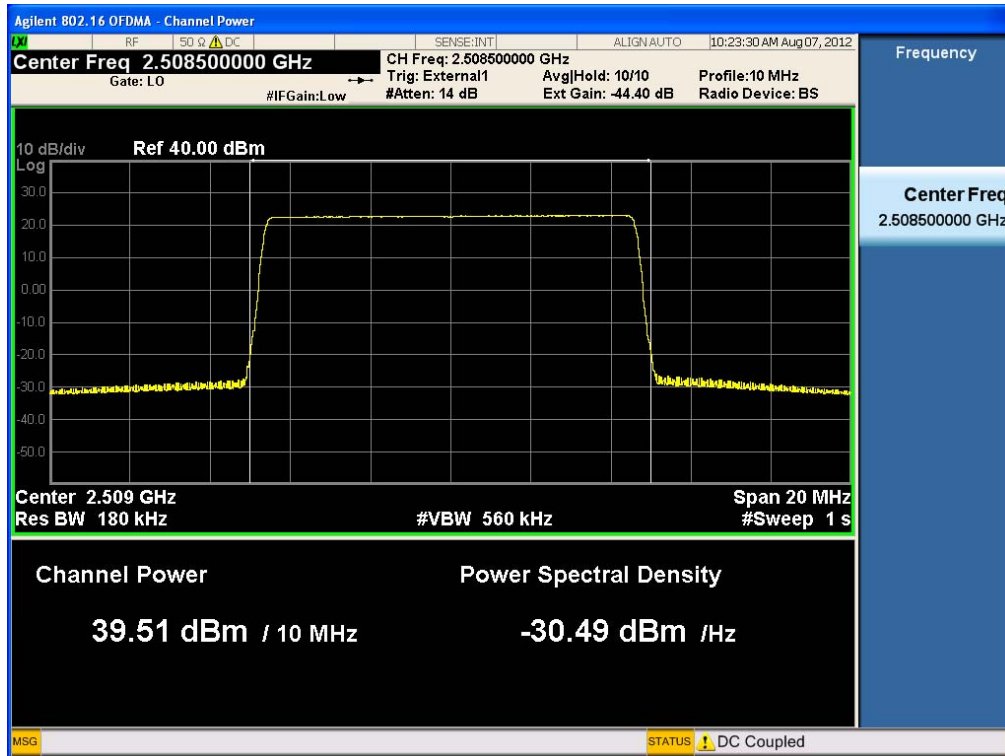


(16QAM High Channel)



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(64QAM Low Channel)



(64QAM Middle Channel)



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(64QAM High Channel)



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5.4.11. Plot Data for Output Port 2 (Conducted Output Power)

(QPSK Low Channel)

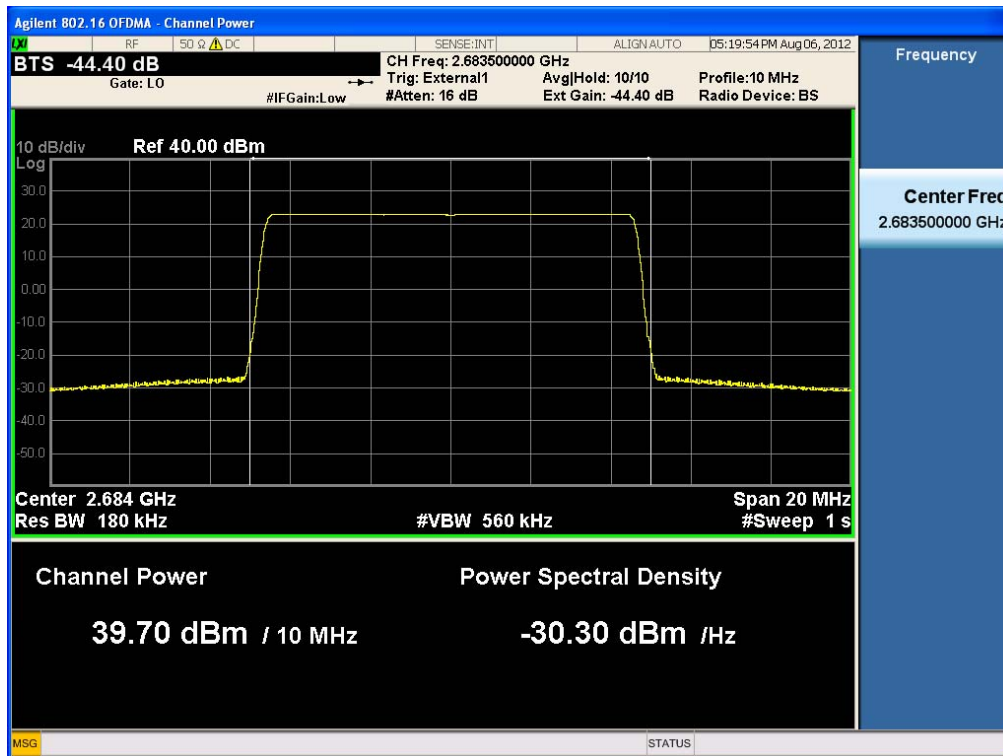


(QPSK Middle Channel)

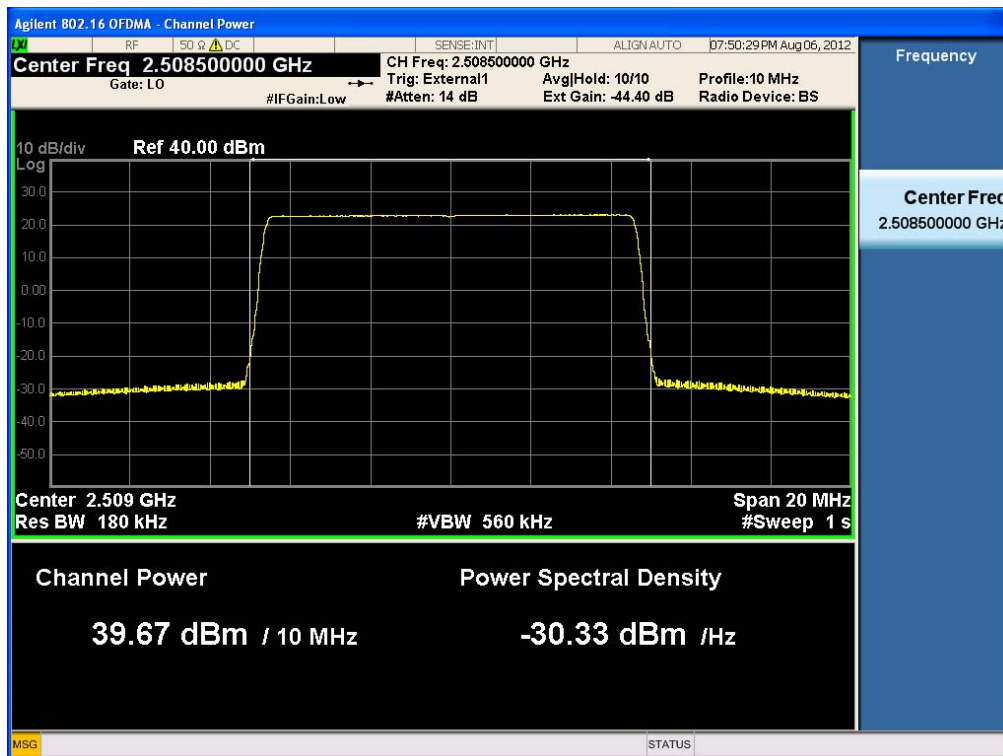


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(QPSK High Channel)

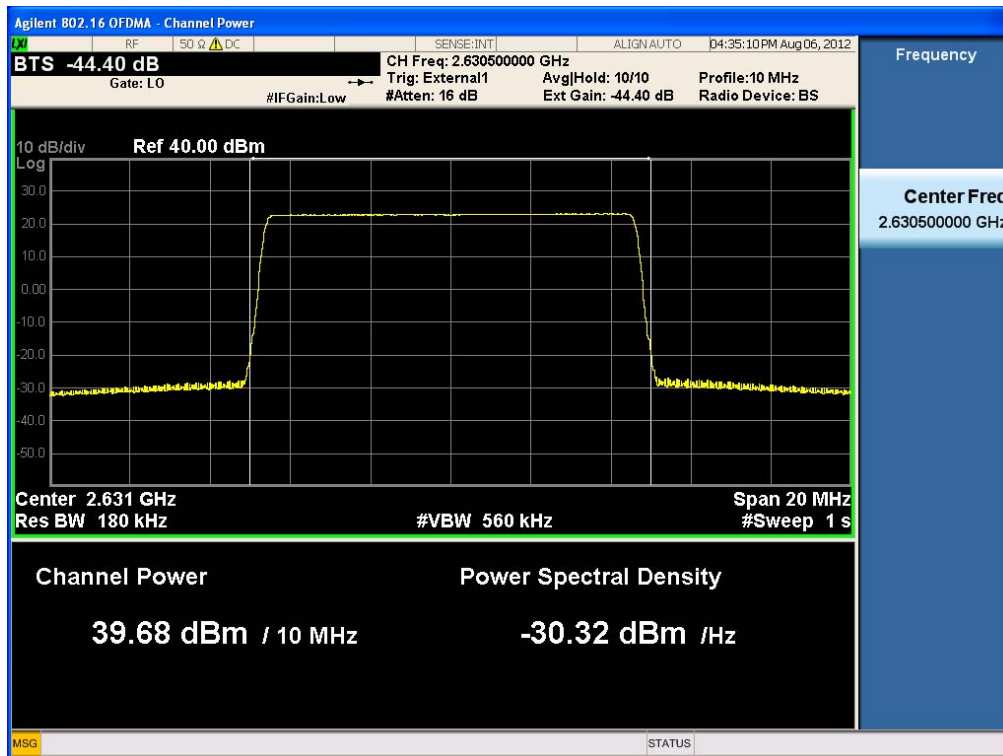


(16QAM Low Channel)

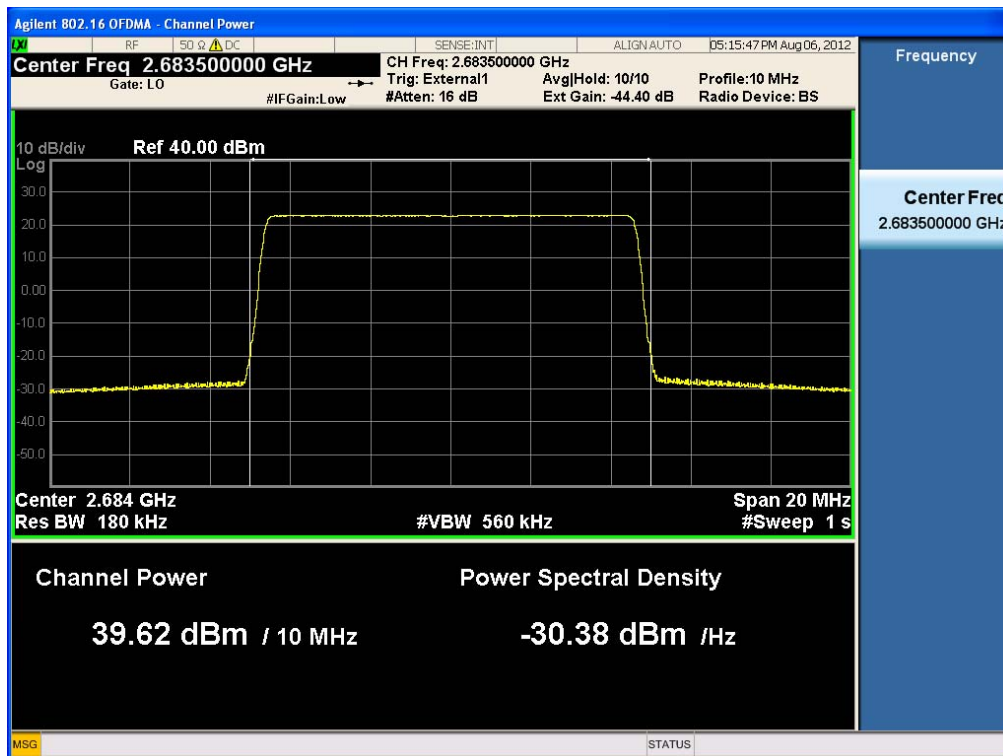


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(16QAM Middle Channel)

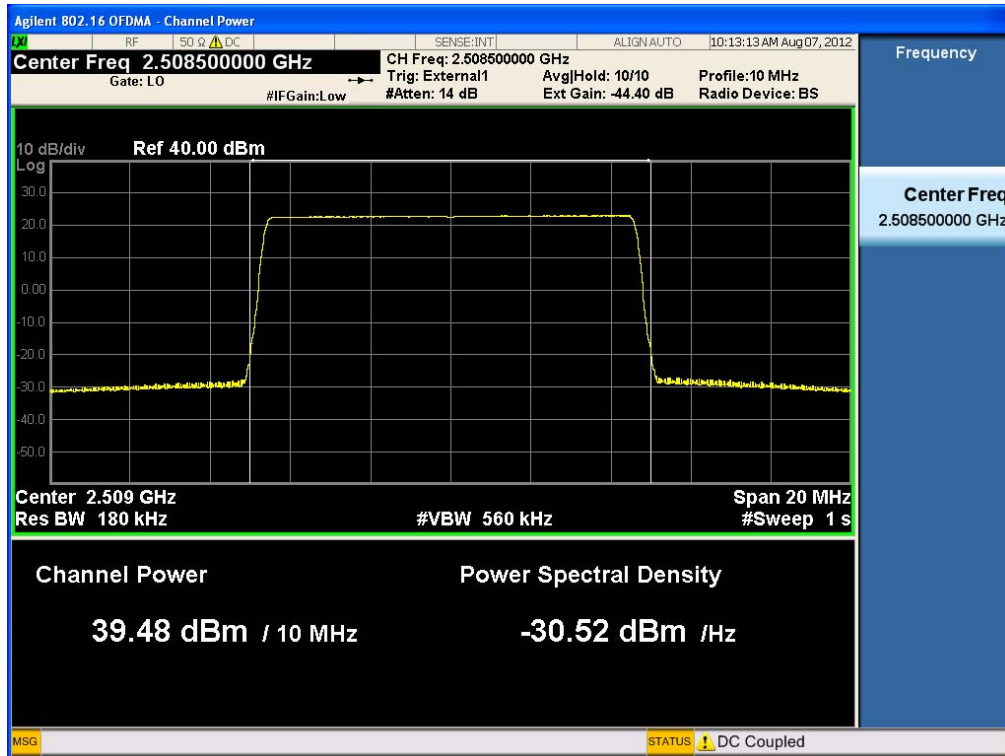


(16QAM High Channel)



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(64QAM Low Channel)



(64QAM Middle Channel)



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(64QAM High Channel)



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5.4.12. Plot Data for Output Port 3 (Conducted Output Power)

(QPSK Low Channel)



(QPSK Middle Channel)



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(QPSK High Channel)

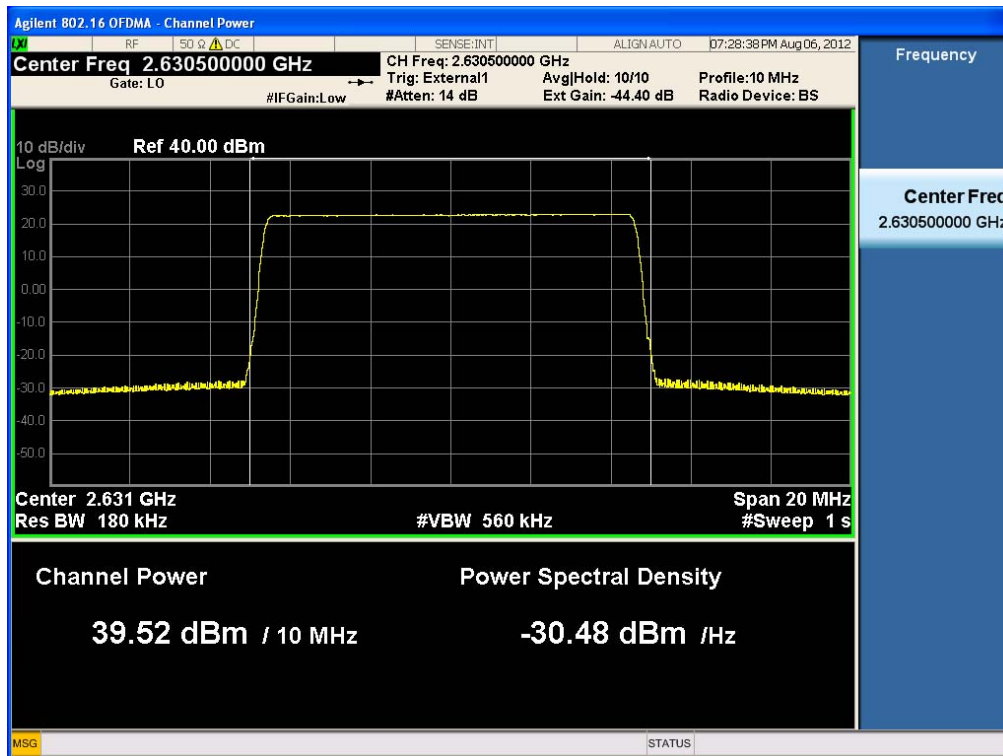


(16QAM Low Channel)

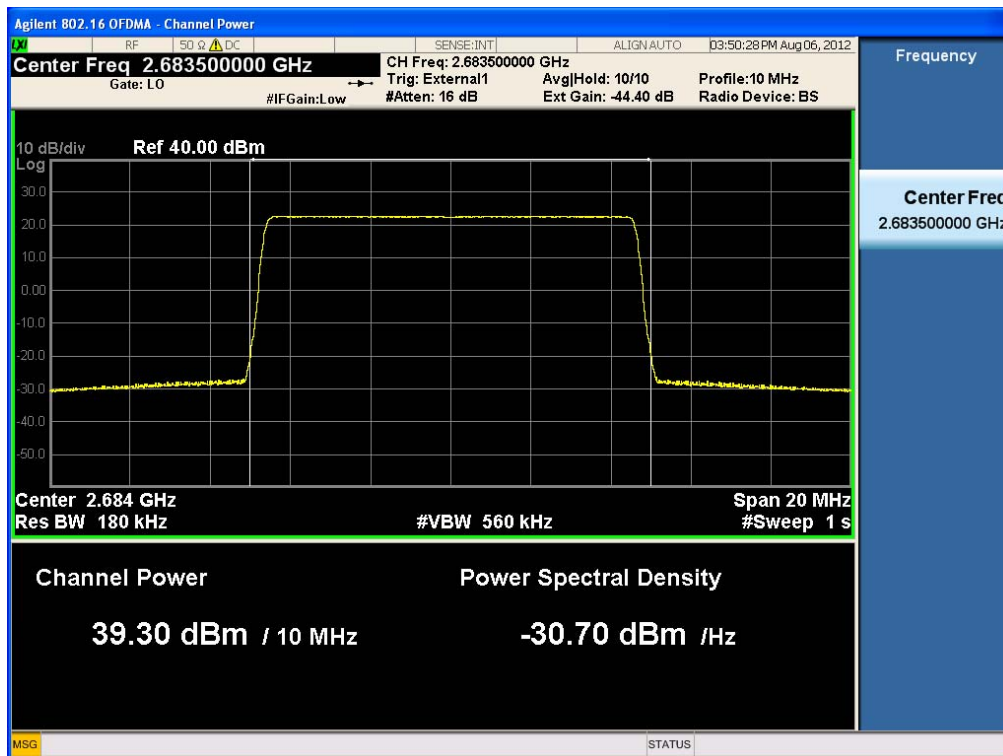


FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1208FR08	Date of Issue: August 07, 2012	EUT Type: Mobile RRH(Remote Radio Head)	FCC ID: A3LSLS-BD106Q	Page 27 of 161

(16QAM Middle Channel)

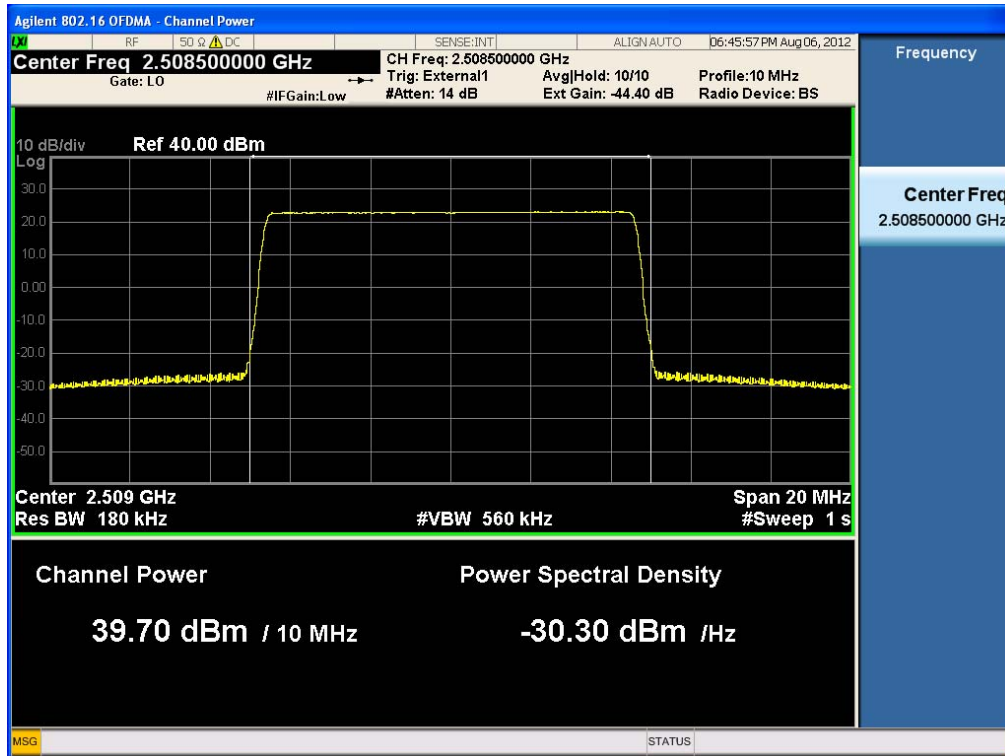


(16QAM High Channel)



FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1208FR08	Date of Issue: August 07, 2012	EUT Type: Mobile RRH(Remote Radio Head)	FCC ID: A3LSLS-BD106Q	Page 28 of 161

(64QAM Low Channel)



(64QAM Middle Channel)



FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
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(64QAM High Channel)



FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
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