

5.4.13. Plot Data for Output Port 4 (Conducted Output Power)

(QPSK Low Channel)

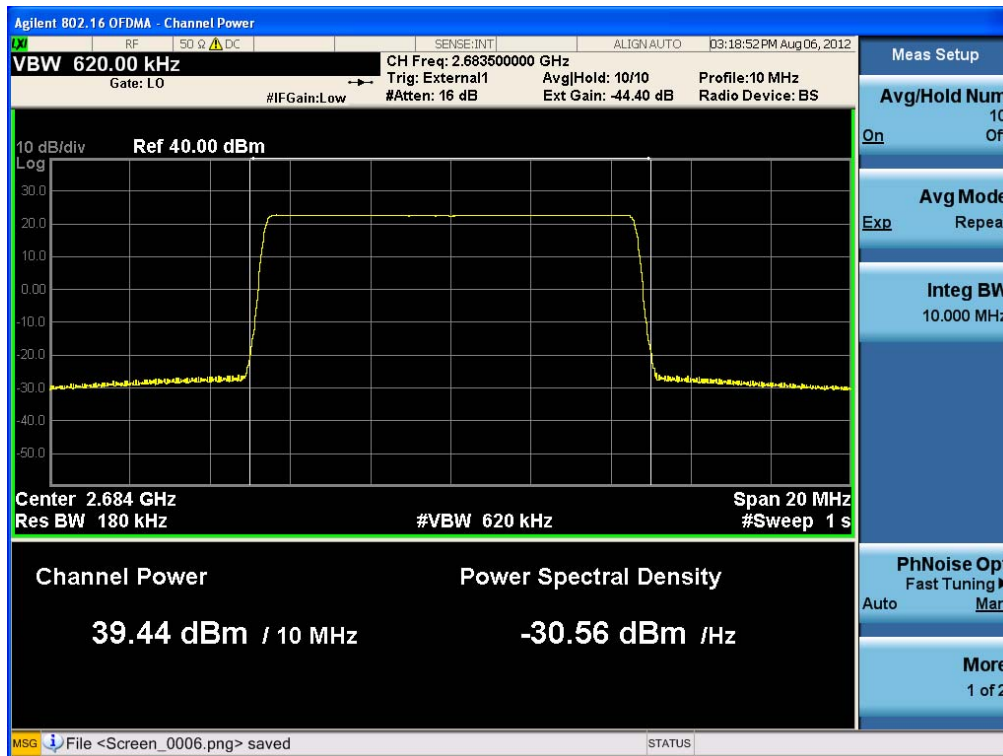


(QPSK Middle Channel)

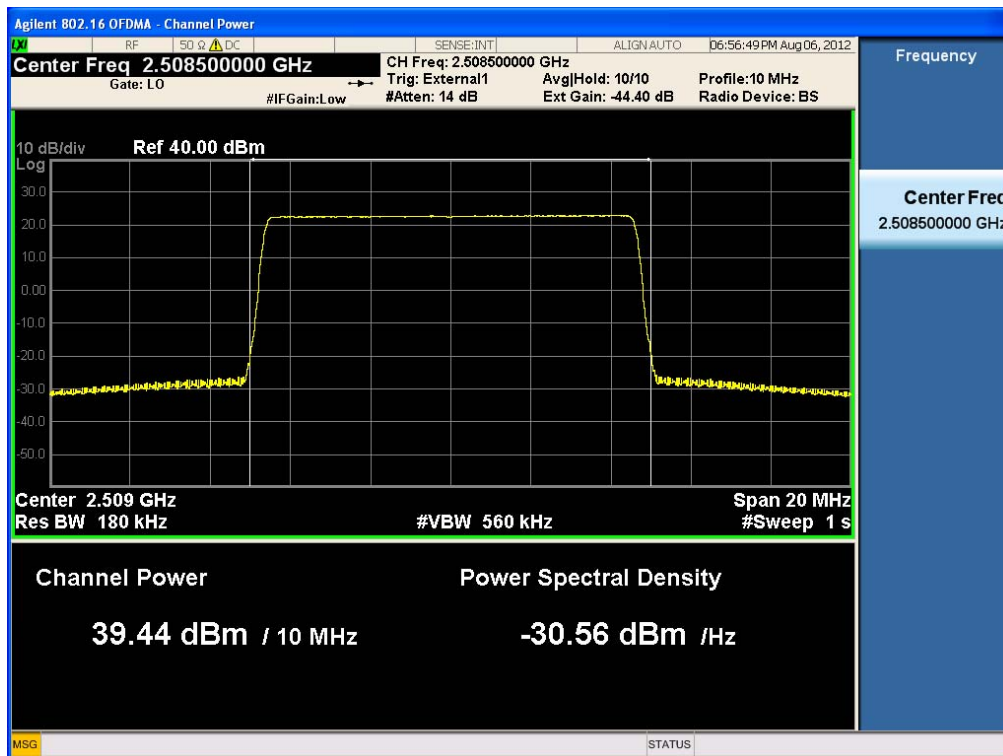


FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
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(QPSK High Channel)

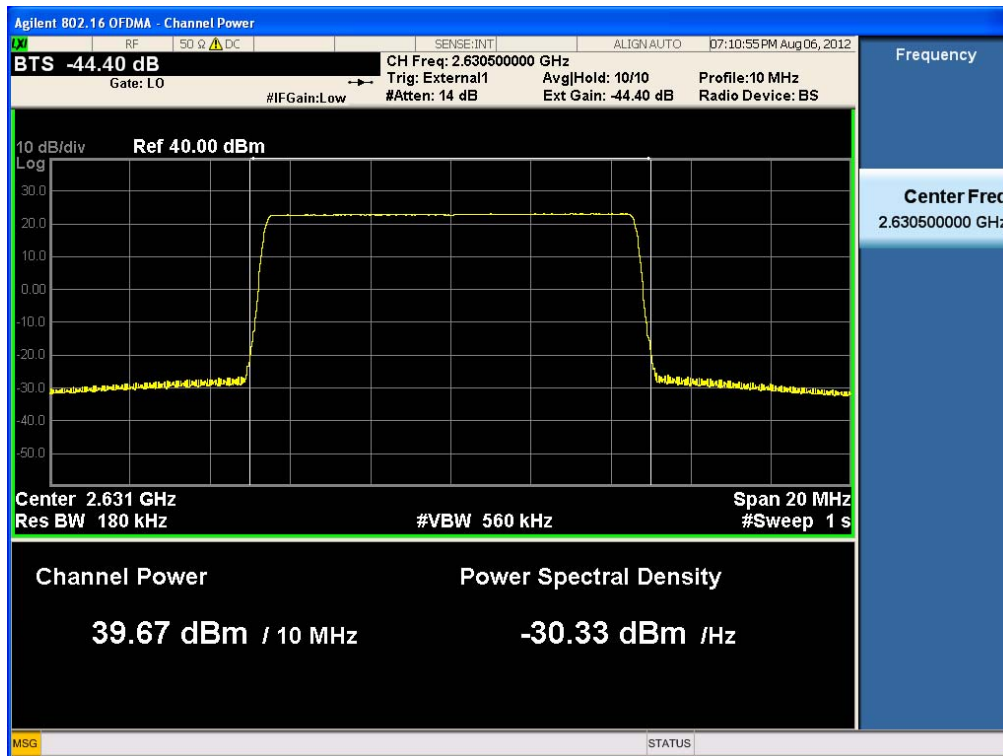


(16QAM Low Channel)



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 32 of 161

(16QAM Middle Channel)



(16QAM High Channel)

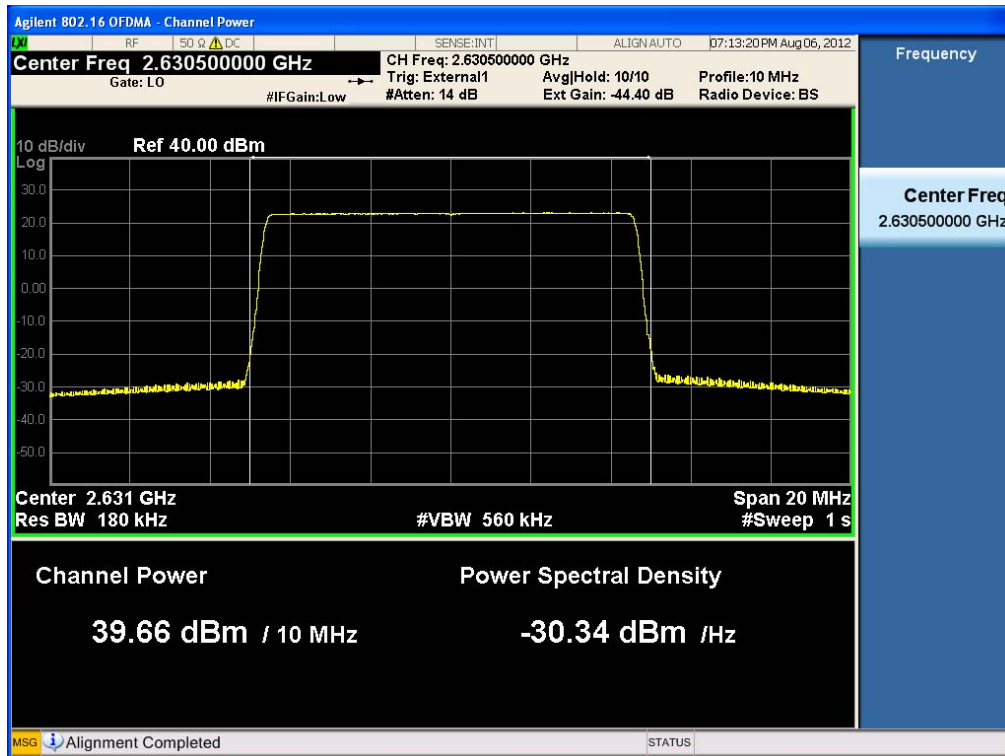


FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
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(64QAM Low Channel)



(64QAM Middle Channel)



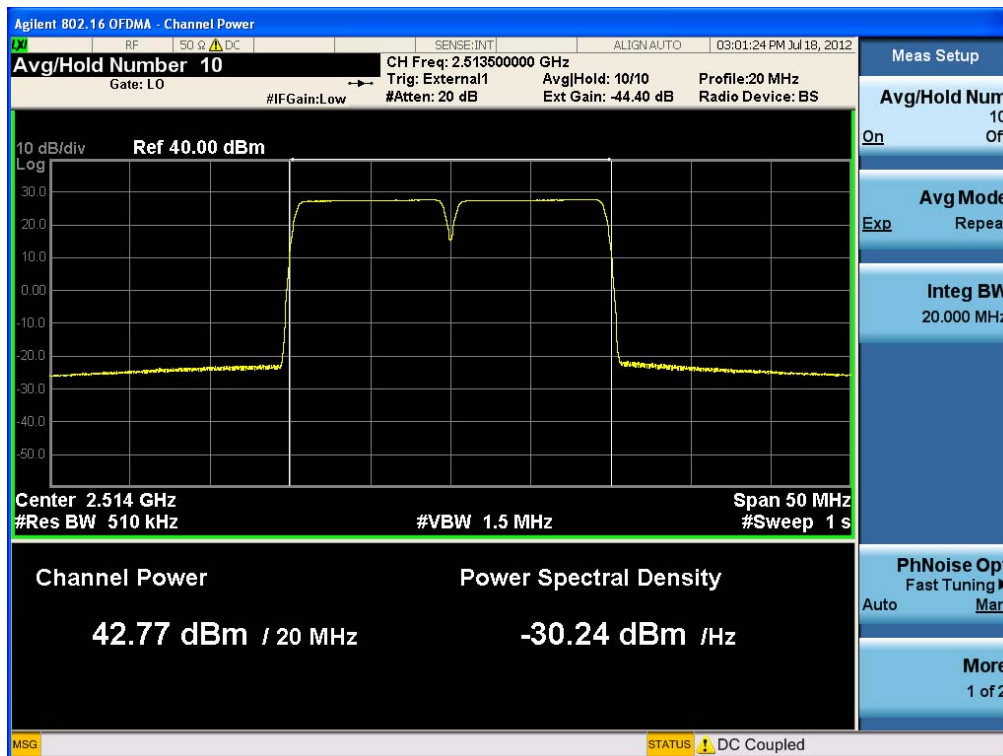
FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1208FR08	Date of Issue: August 07, 2012	EUT Type: Mobile RRH(Remote Radio Head)	FCC ID: A3LSLS-BD106Q	Page 34 of 161

(64QAM High Channel)

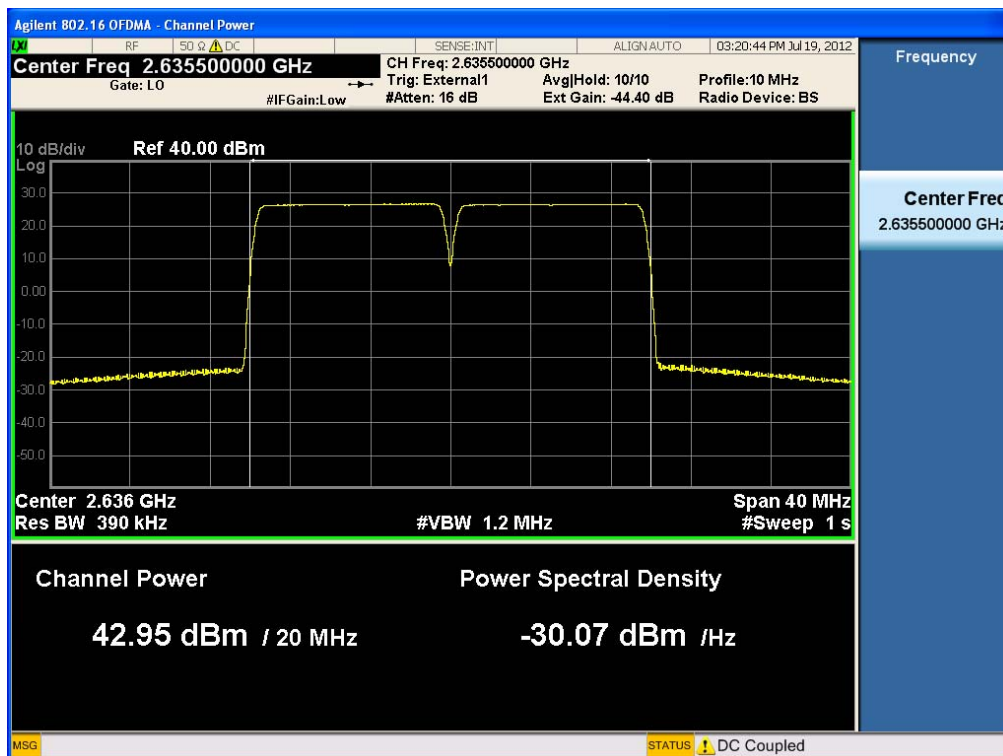


FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1208FR08	Date of Issue: August 07, 2012	EUT Type: Mobile RRH(Remote Radio Head)	FCC ID: A3LSLS-BD106Q	Page 35 of 161

5.4.14. Plot Data for Output Port 1 (Conducted Output Power)_ Mobile WiMax 2 Carriers
(QPSK Low Channel)

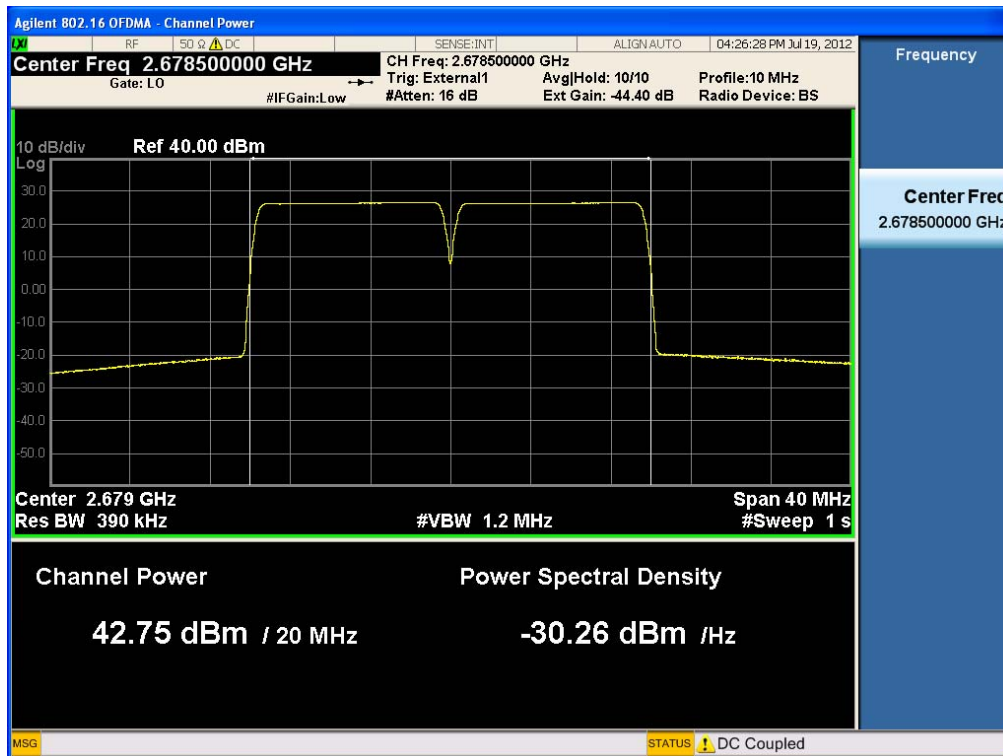


(QPSK Middle Channel)

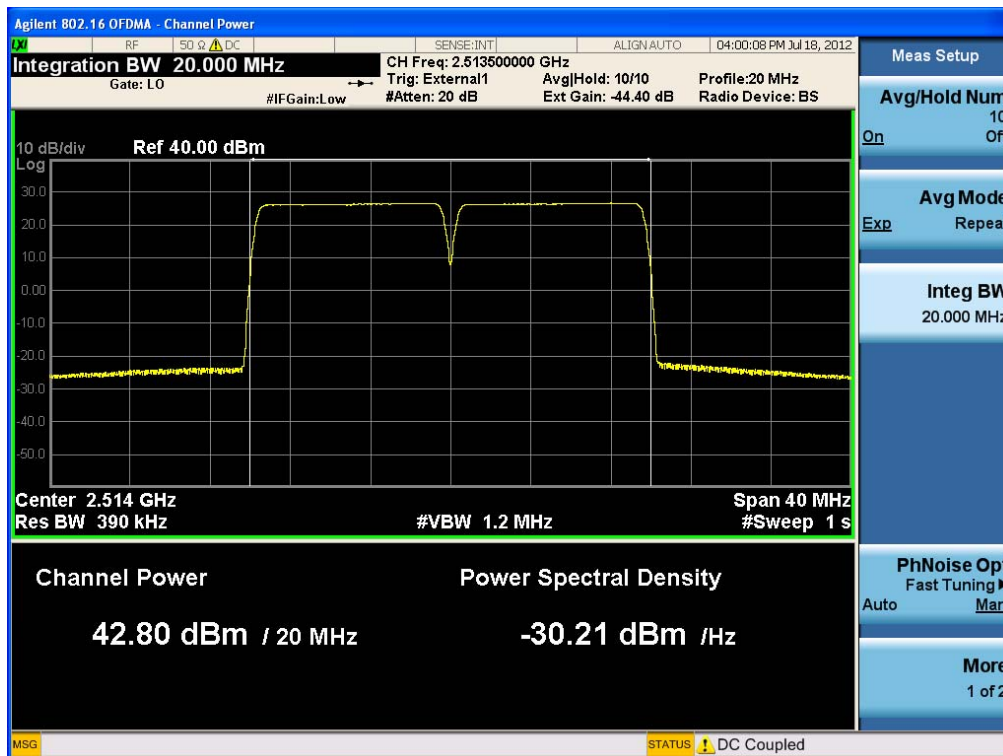


FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1208FR08	Date of Issue: August 07, 2012	EUT Type: Mobile RRH(Remote Radio Head)	FCC ID: A3LSLS-BD106Q	Page 36 of 161

(QPSK High Channel)

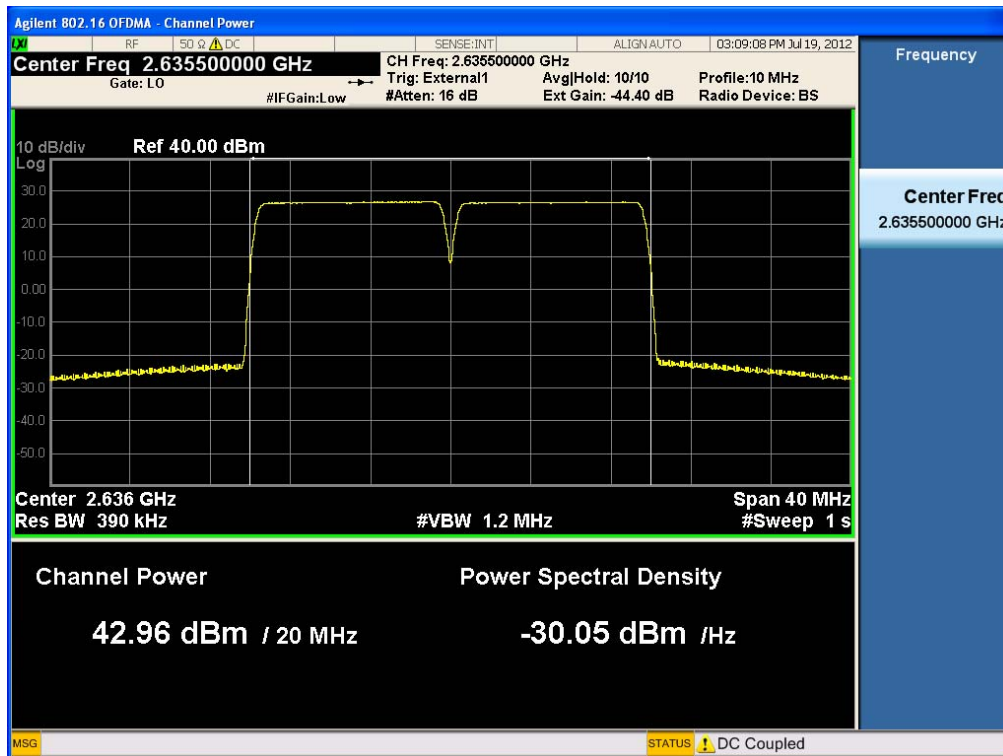


(16QAM Low Channel)

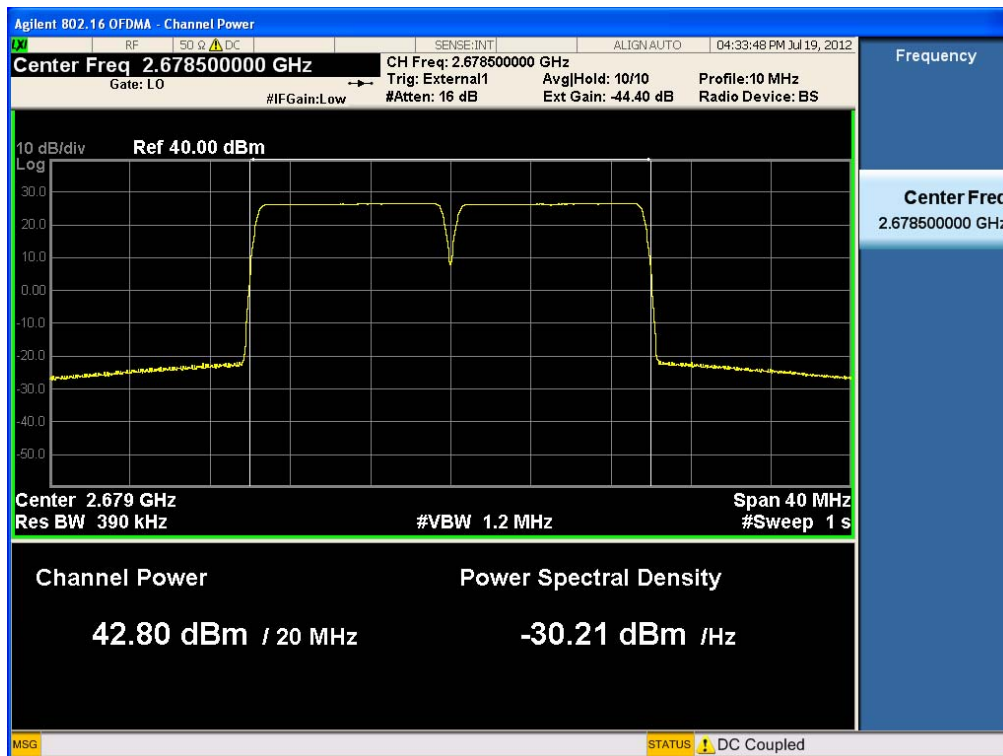


FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
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(16QAM Middle Channel)

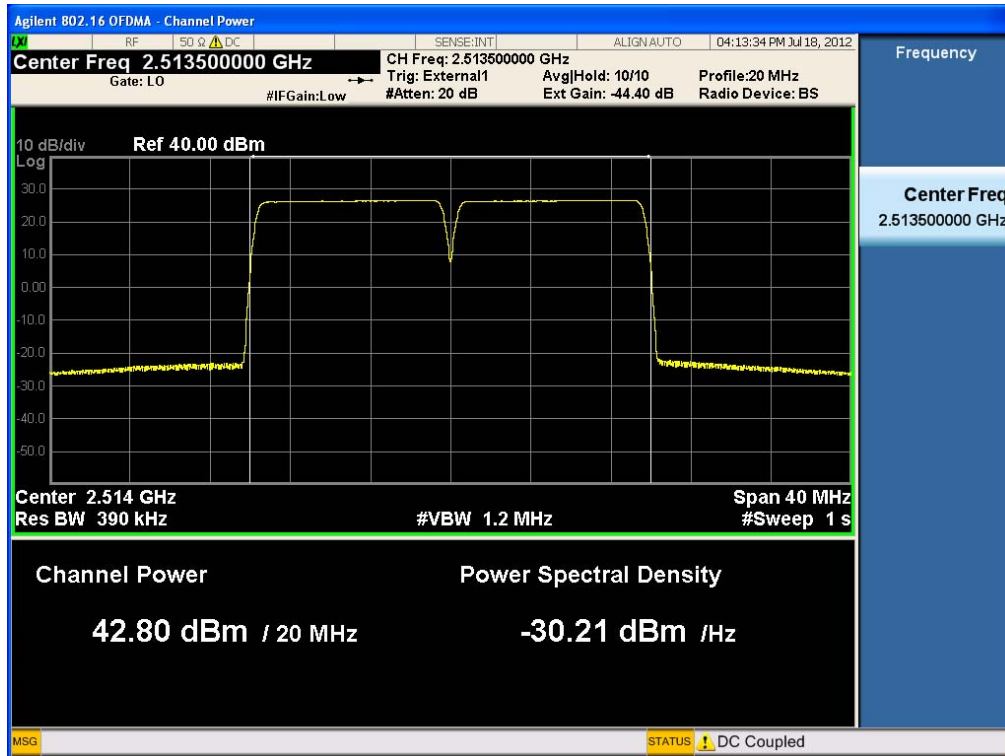


(16QAM High Channel)



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 38 of 161

(64QAM Low Channel)

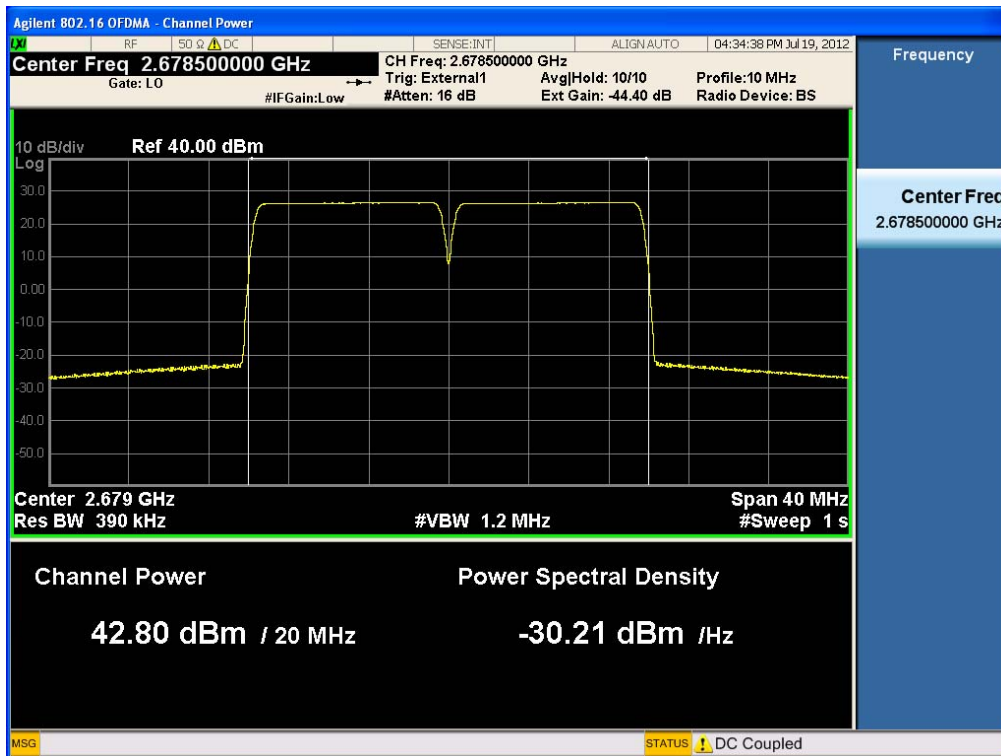


(64QAM Middle Channel)



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 39 of 161

(64QAM High Channel)

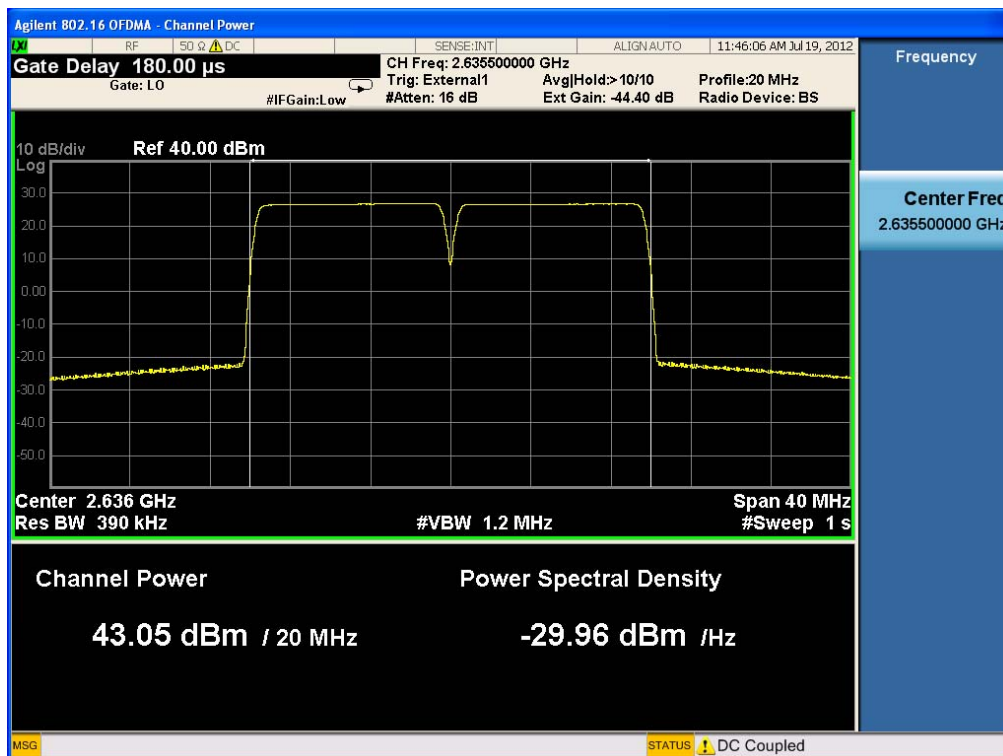


FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1208FR08	Date of Issue: August 07, 2012	EUT Type: Mobile RRH(Remote Radio Head)	FCC ID: A3LSLS-BD106Q	Page 40 of 161

5.4.15. Plot Data for Output Port 2 (Conducted Output Power)_ Mobile WiMax 2 Carriers
(QPSK Low Channel)

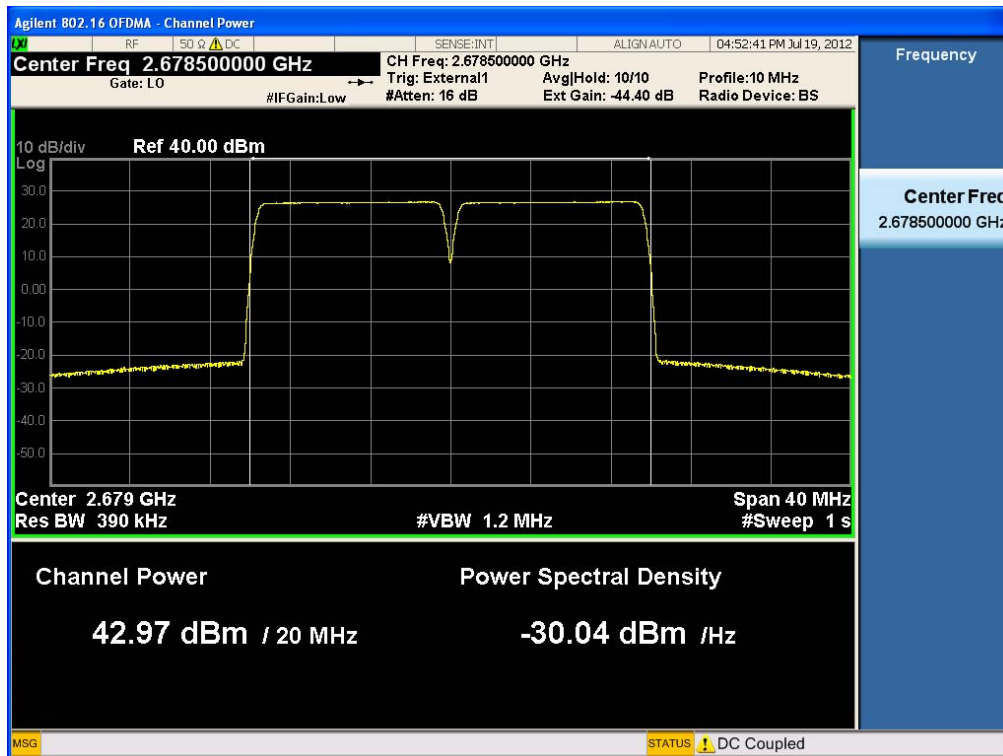


(QPSK Middle Channel)

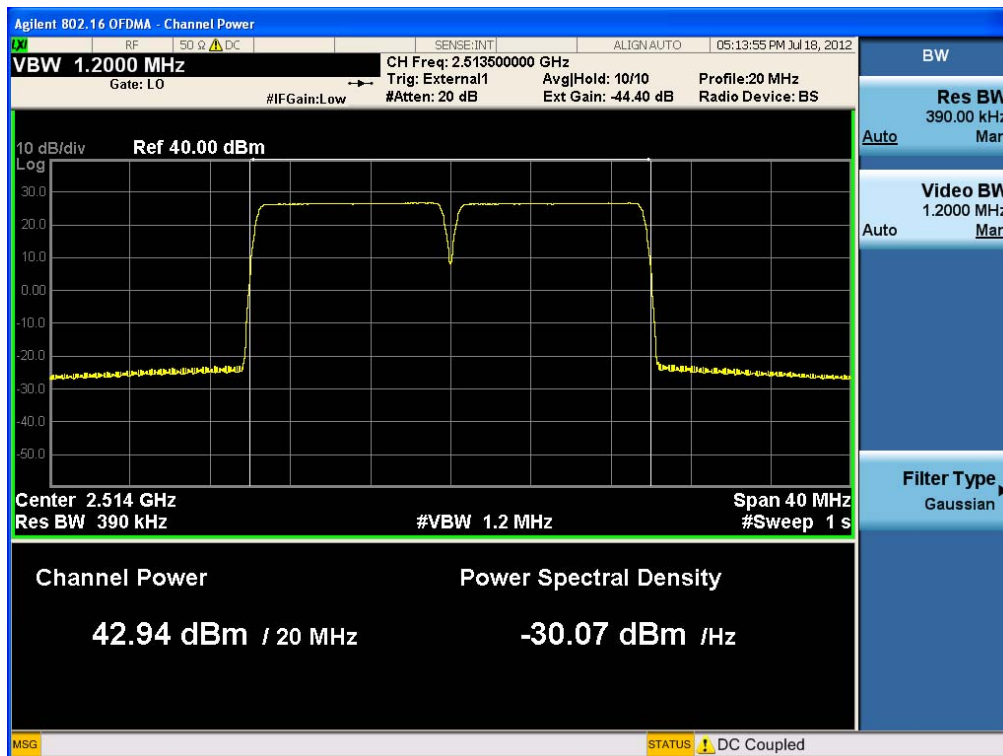


FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1208FR08	Date of Issue: August 07, 2012	EUT Type: Mobile RRH(Remote Radio Head)	FCC ID: A3LSLS-BD106Q	Page 41 of 161

(QPSK High Channel)

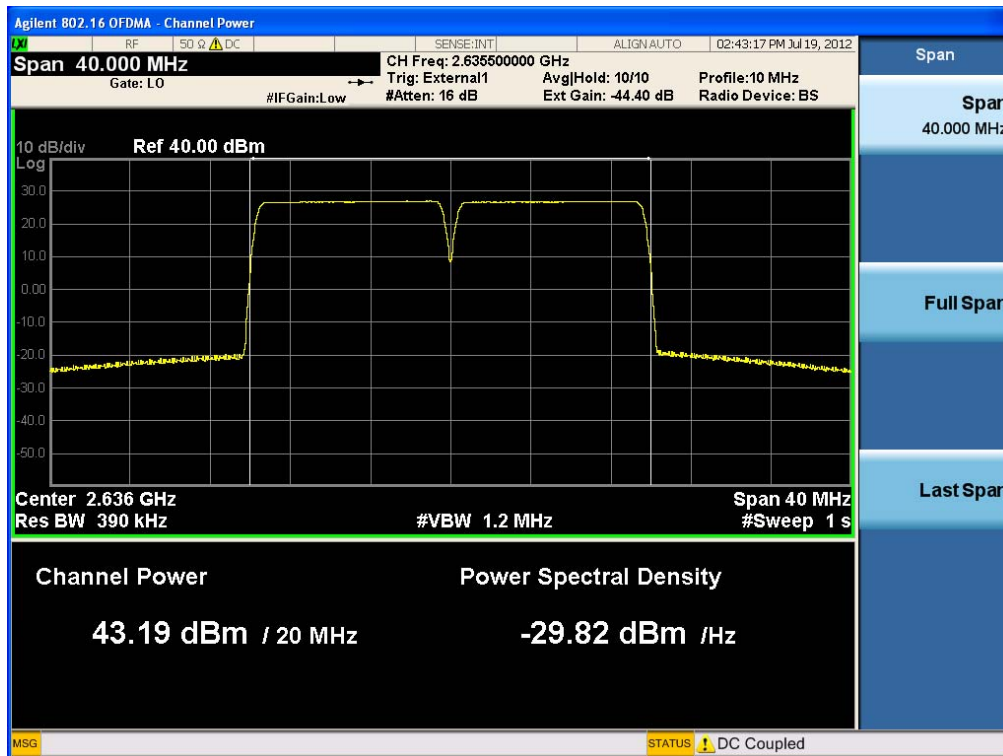


(16QAM Low Channel)

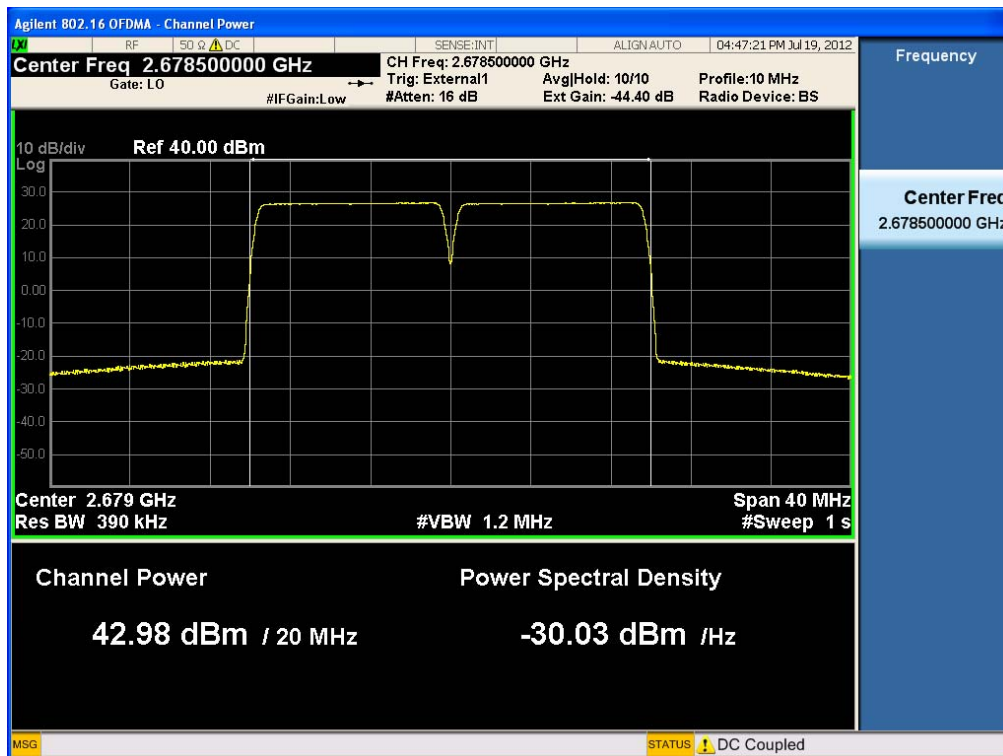


FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1208FR08	Date of Issue: August 07, 2012	EUT Type: Mobile RRH(Remote Radio Head)	FCC ID: A3LSLS-BD106Q	Page 42 of 161

(16QAM Middle Channel)



(16QAM High Channel)



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

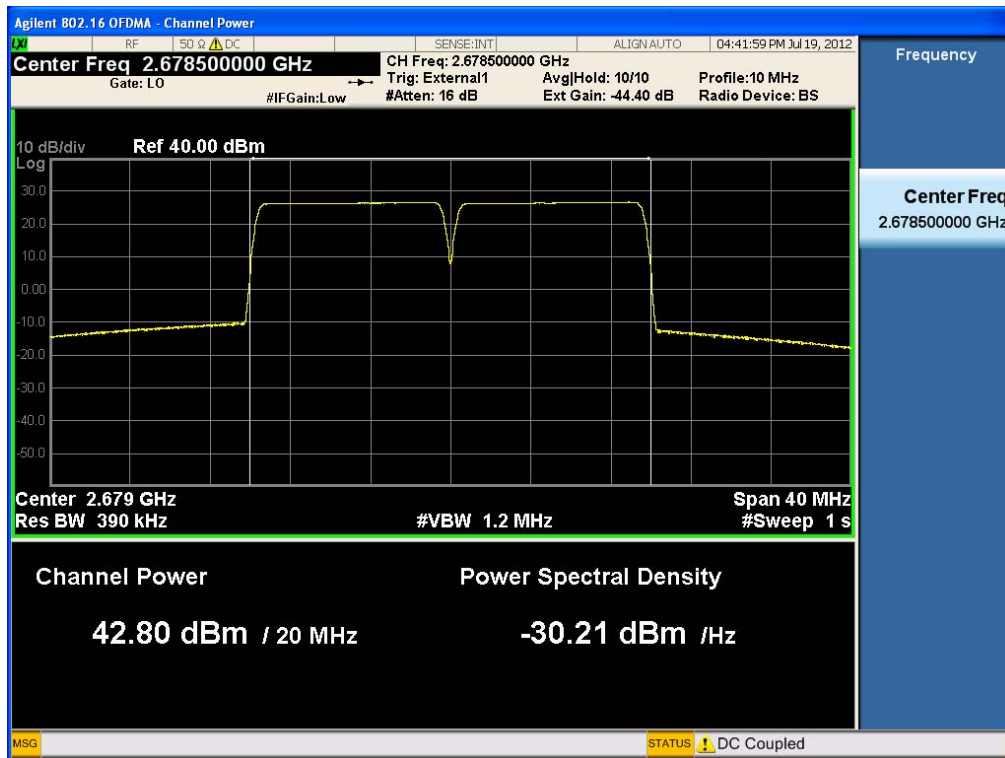


(64QAM Middle Channel)



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 44 of 161

(64QAM High Channel)



FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
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5.4.16. Plot Data for Output Port 3 (Conducted Output Power) _ Mobile WiMax 2 Carriers
(QPSK Low Channel)

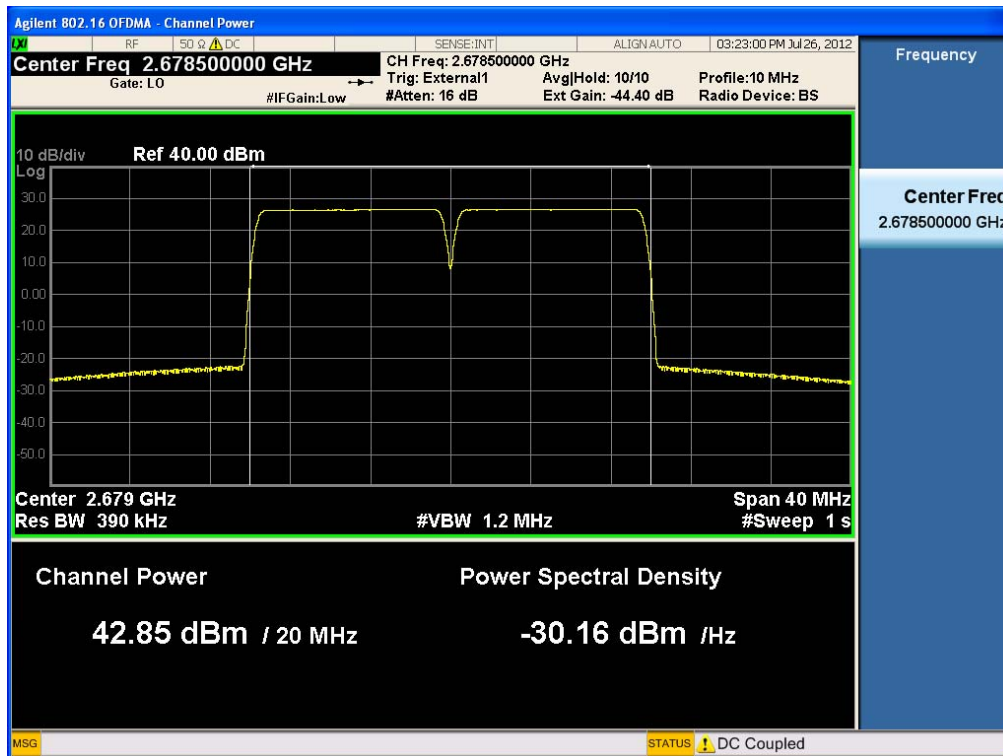


(QPSK Middle Channel)

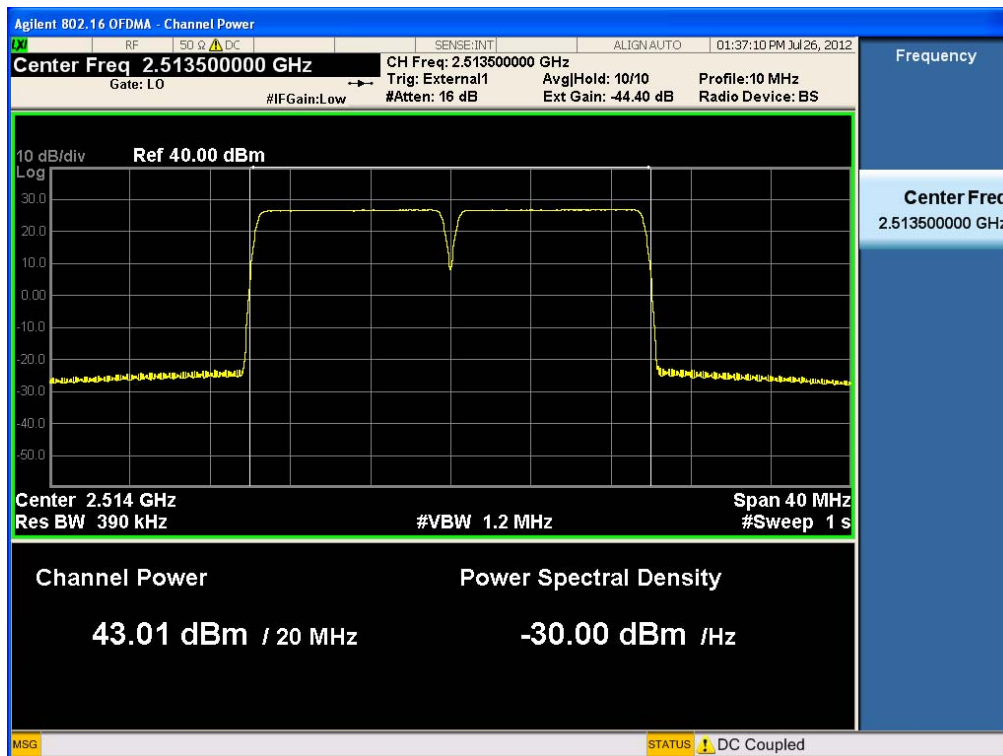


FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1208FR08	Date of Issue: August 07, 2012	EUT Type: Mobile RRH(Remote Radio Head)	FCC ID: A3LSLS-BD106Q	Page 46 of 161

(QPSK High Channel)

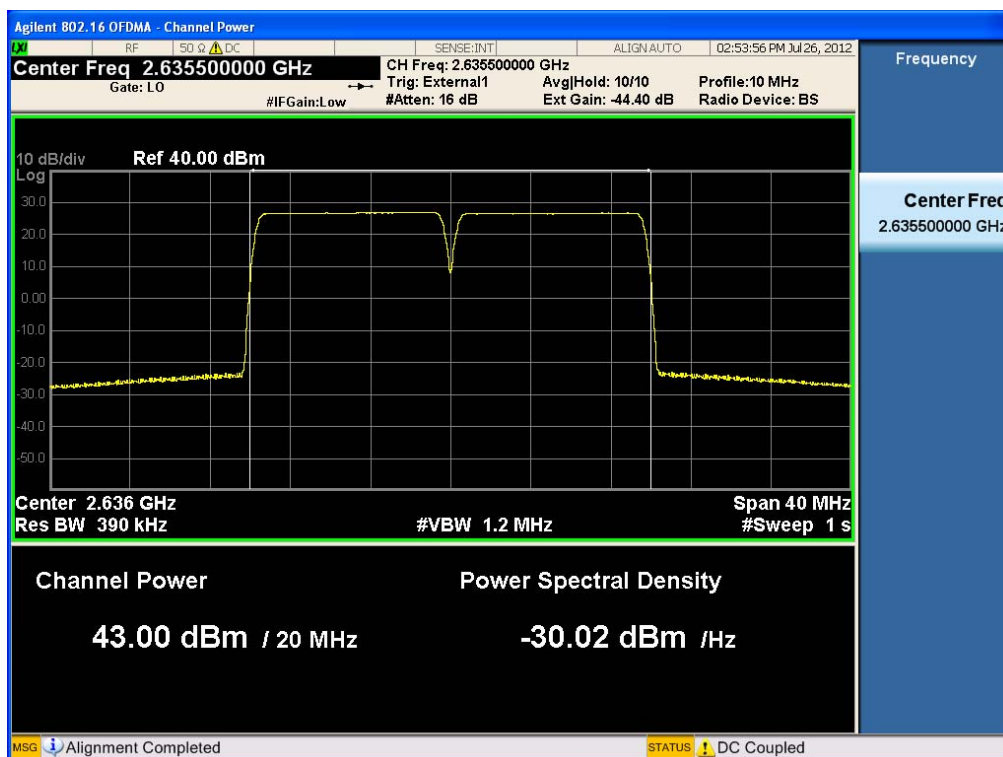


(16QAM Low Channel)



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 47 of 161

(16QAM Middle Channel)

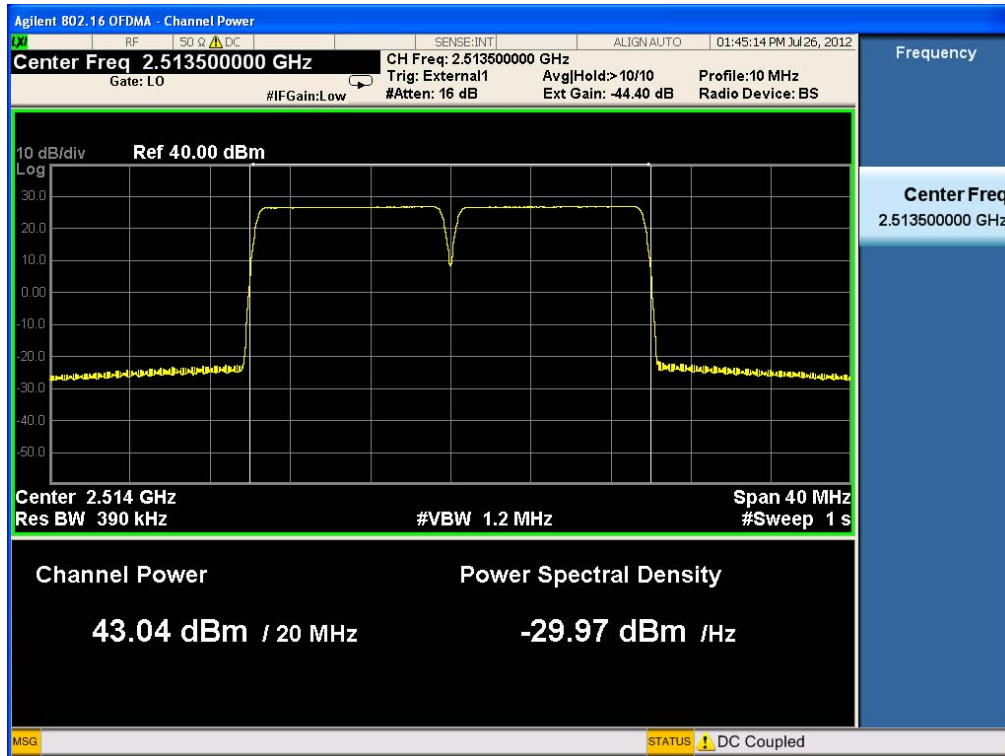


(16QAM High Channel)



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 48 of 161

(64QAM Low Channel)

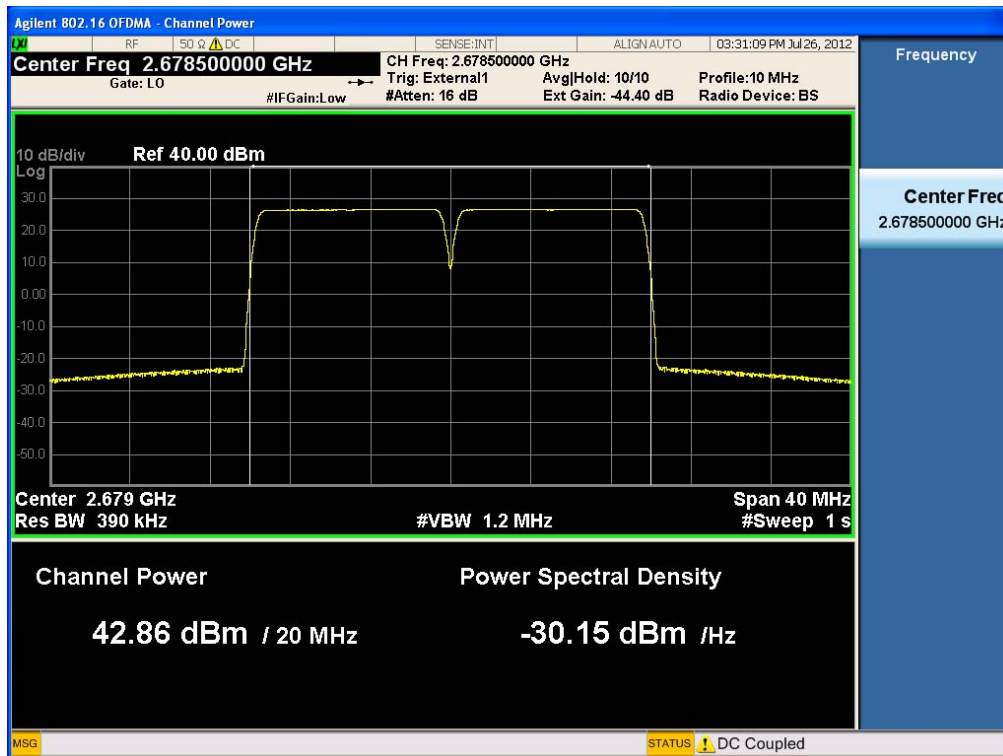


(64QAM Middle Channel)



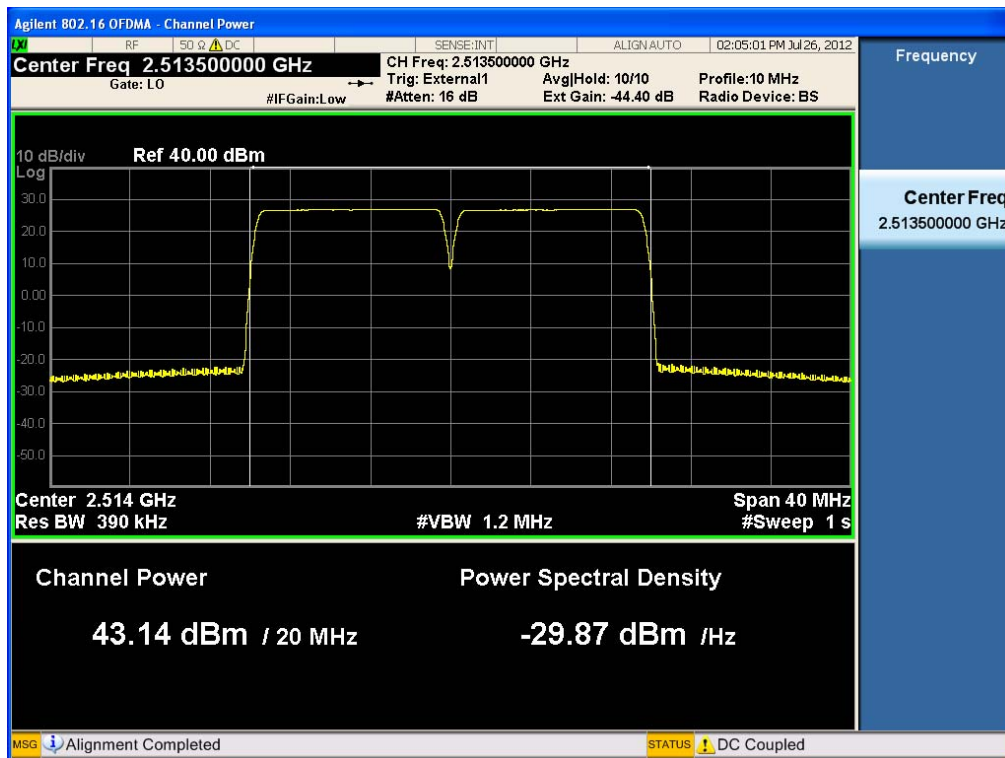
FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1208FR08	Date of Issue: August 07, 2012	EUT Type: Mobile RRH(Remote Radio Head)	FCC ID: A3LSLS-BD106Q	Page 49 of 161

(64QAM High Channel)



FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
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5.4.17. Plot Data for Output Port 4 (Conducted Output Power) _ Mobile WiMax 2 Carriers
(QPSK Low Channel)

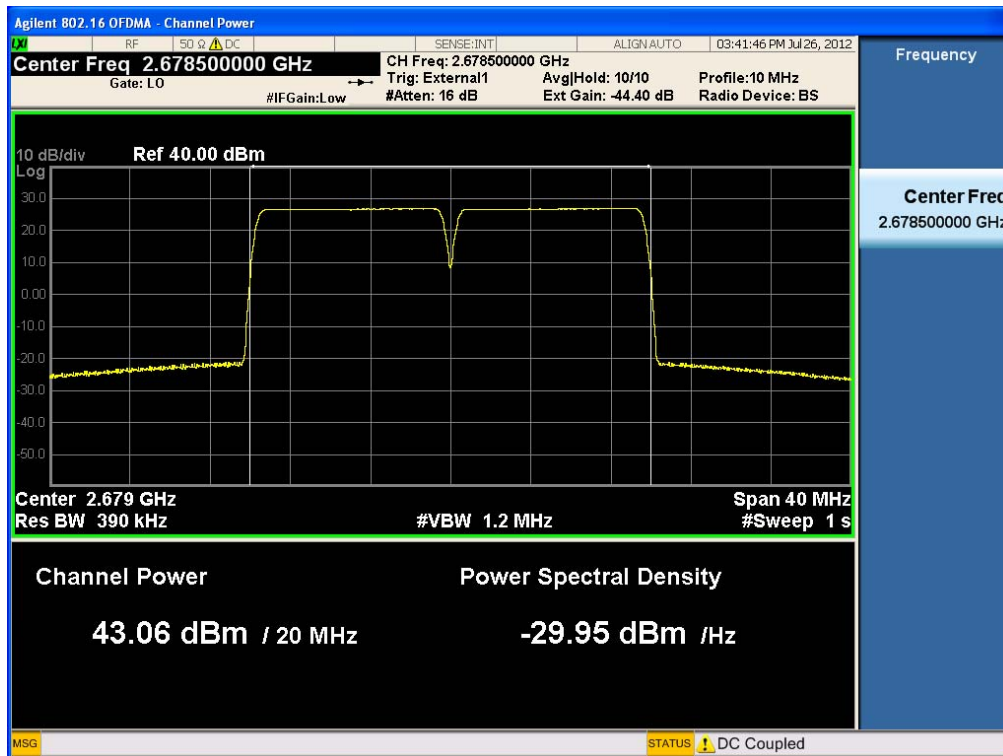


(QPSK Middle Channel)

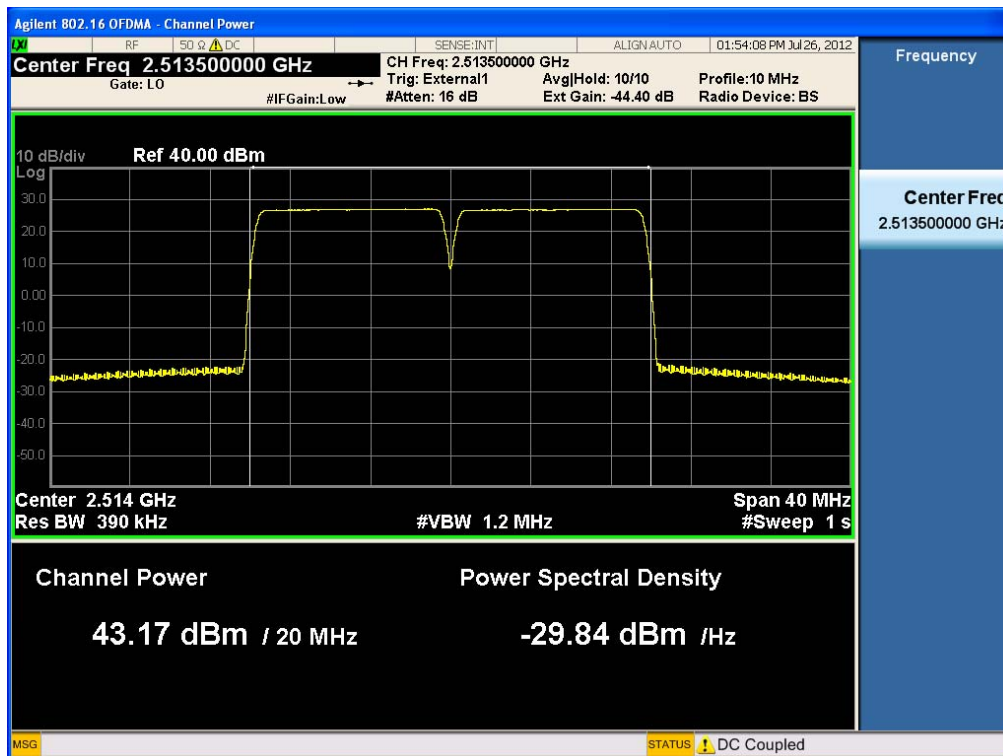


FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1208FR08	Date of Issue: August 07, 2012	EUT Type: Mobile RRH(Remote Radio Head)	FCC ID: A3LSLS-BD106Q	Page 51 of 161

(QPSK High Channel)

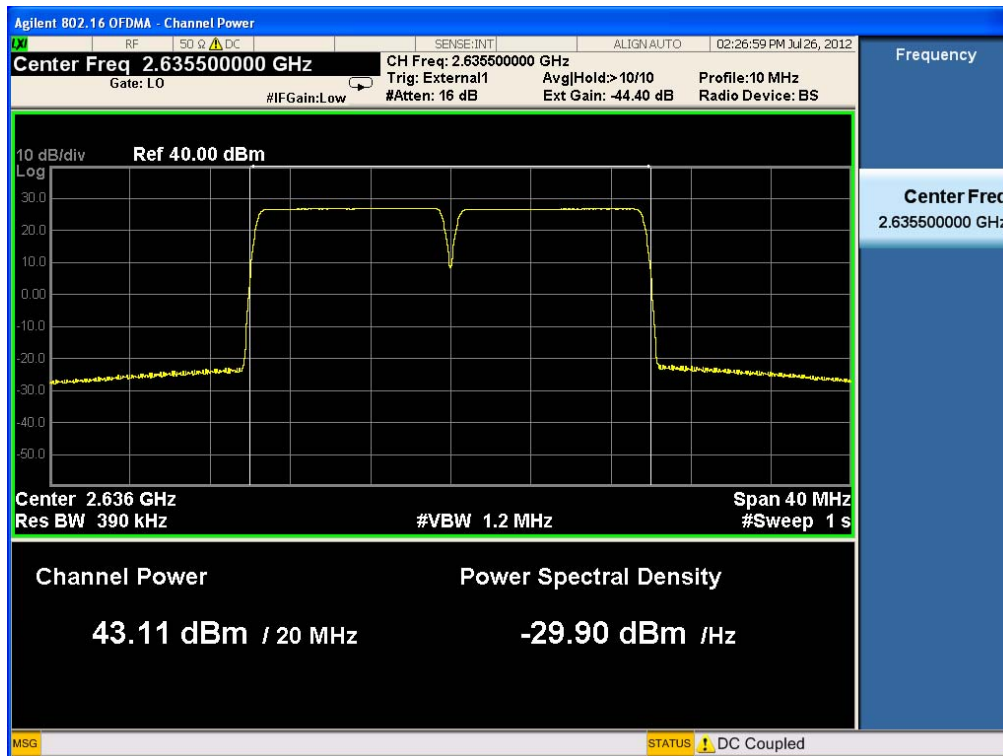


(16QAM Low Channel)

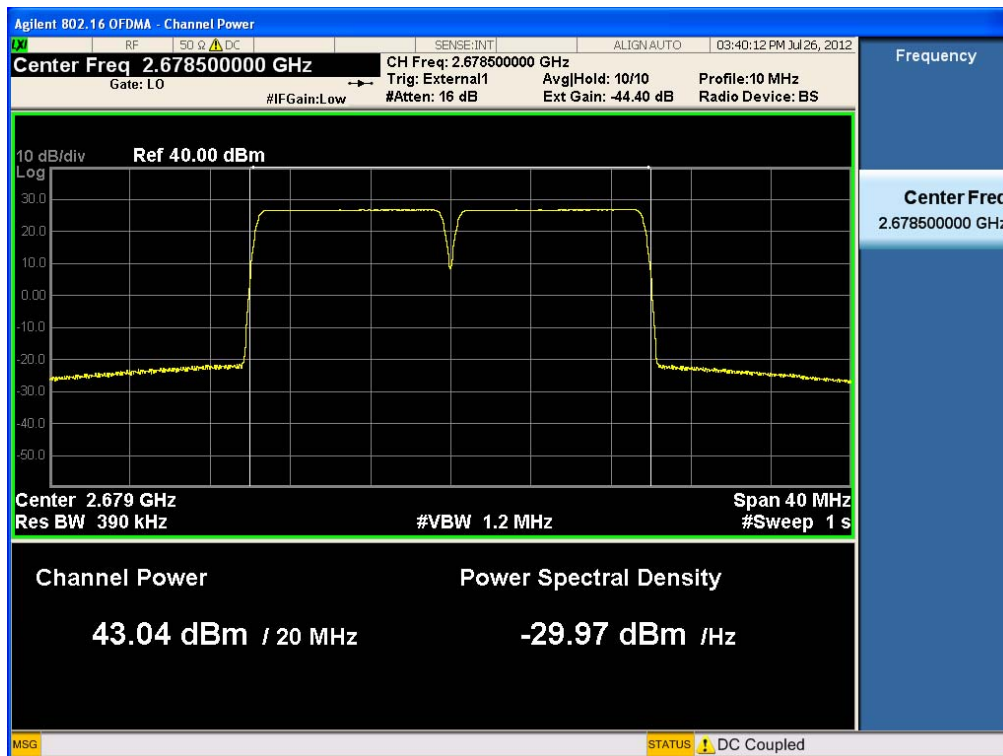


FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1208FR08	Date of Issue: August 07, 2012	EUT Type: Mobile RRH(Remote Radio Head)	FCC ID: A3LSLS-BD106Q	Page 52 of 161

(16QAM Middle Channel)

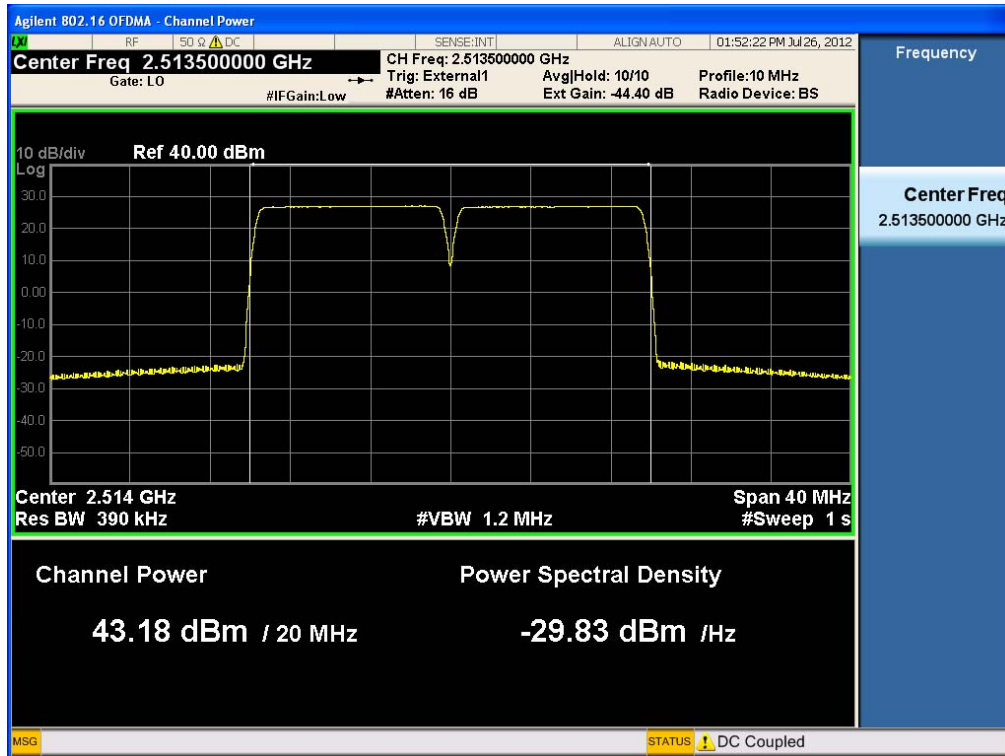


(16QAM High Channel)



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 53 of 161

(64QAM Low Channel)

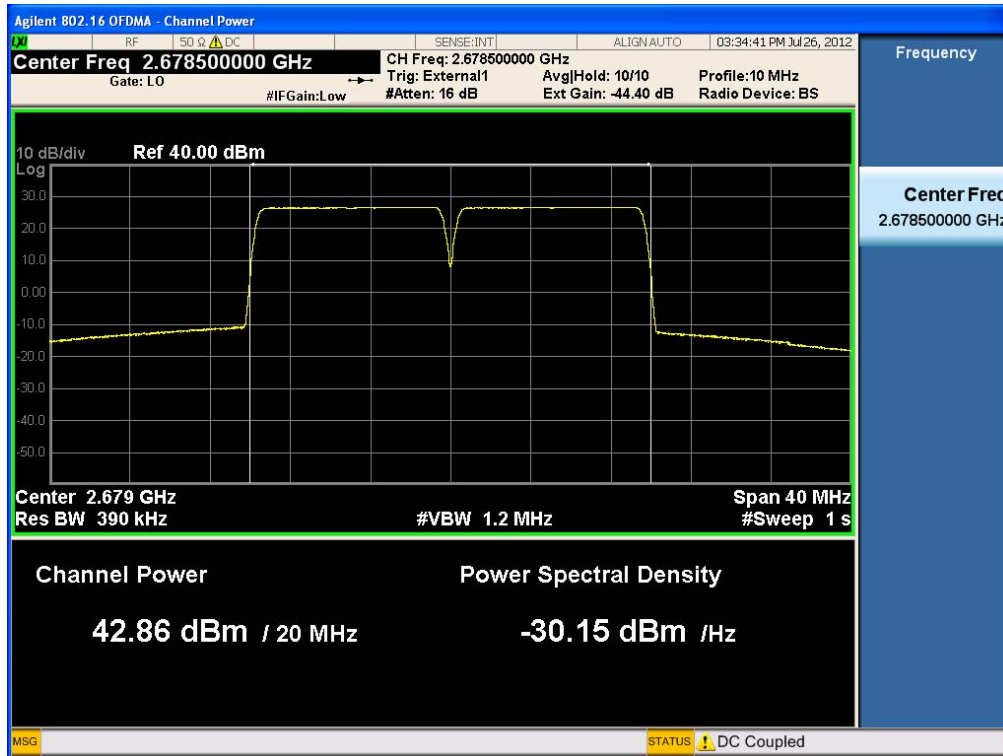


(64QAM Middle Channel)



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 54 of 161

(64QAM High Channel)



FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
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6. OCCUPIED BANDWIDTH

6.1. Applicable Standard

Requirements: CFR 47, Section 27.53(m)(6) Measurement procedure. Compliance with these rules is based on the use of measurement instrumentation employing a resolution bandwidth of 1 MHz or greater. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (*i.e.* 1 MHz or 1 percent of emission bandwidth, as specified). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power. With respect to television operations, measurements must be made of the separate visual and aural operating powers at sufficiently frequent intervals to ensure compliance with the rules.

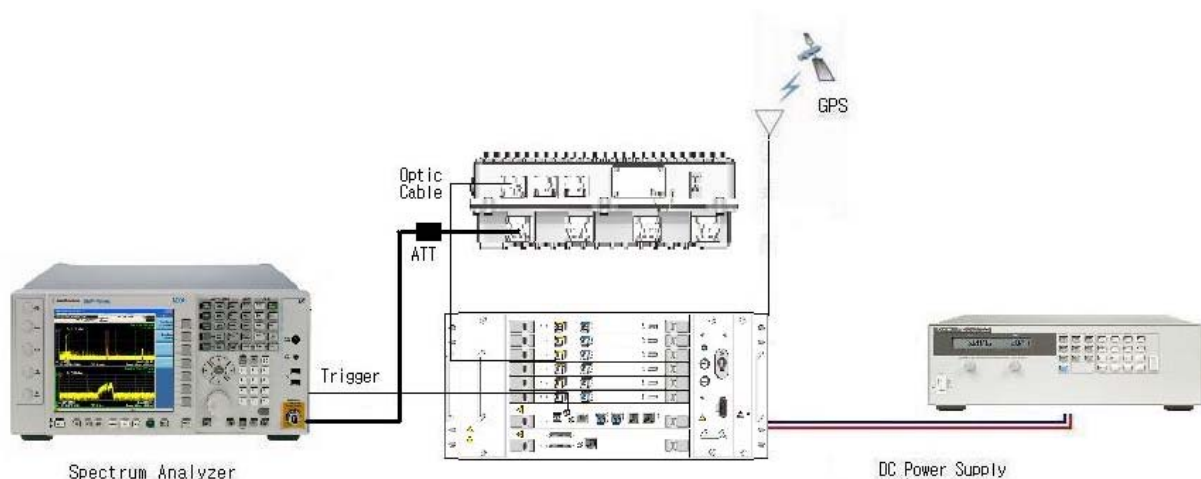
6.2. Test Equipment List and Details

Manufacturer	Model / Equipment	Serial No.	Calibration Due
Agilent	N9020A /Signal Analyzer	US46220219	05/02/2013
Agilent	6674A / DC Power Supply	3501A00901	05/02/2013
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

6.3. Test Procedure

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

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The EUT was connected to a spectrum analyzer enabled with an occupied bandwidth function via its antenna port. Measurements were performed to determine the occupied bandwidth in accordance with FCC Part 2.1049. The occupied bandwidth was measured from the fundamental emission at the bottom, middle and top channels. The occupied bandwidth was measured using the built in occupied bandwidth function of the spectrum analyzer. It was set to measure the bandwidth where 99% of the signal power was contained. The analyzer automatically configures the measurement bandwidths to make an accurate measurement based on the channel bandwidth and channel spacing of the EUT.

6.4. Test Result

: PASS

FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
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6.4.1. Test Data at Output Port 1

Modulation	Frequency	Measured Bandwidth	
		99 %	26 dB
QPSK	2508.5	9.1455	9.629
	2630.5	9.1354	9.614
	2683.5	9.1465	9.634
16QAM	2508.5	9.1478	9.631
	2630.5	9.1472	9.624
	2683.5	9.1481	9.629
64QAM	2508.5	9.1421	9.624
	2630.5	9.1338	9.623
	2683.5	9.1423	9.633

6.4.2. Test Data at Output Port 2

Modulation	Frequency	Measured Bandwidth	
		99 %	26 dB
QPSK	2508.5	9.1458	9.632
	2630.5	9.1412	9.623
	2683.5	9.1429	9.628
16QAM	2508.5	9.1420	9.627
	2630.5	9.1505	9.622
	2683.5	9.1548	9.633
64QAM	2508.5	9.1451	9.631
	2630.5	9.1438	9.627
	2683.5	9.1492	9.626

6.4.3. Test Data at Output Port 3

FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
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Modulation	Frequency	Measured Bandwidth	
		99 %	26 dB
QPSK	2508.5	9.1436	9.631
	2630.5	9.1453	9.625
	2683.5	9.1506	9.625
16QAM	2508.5	9.1352	9.627
	2630.5	9.1405	9.622
	2683.5	9.1470	9.627
64QAM	2508.5	9.1455	9.627
	2630.5	9.1366	9.621
	2683.5	9.1436	9.627

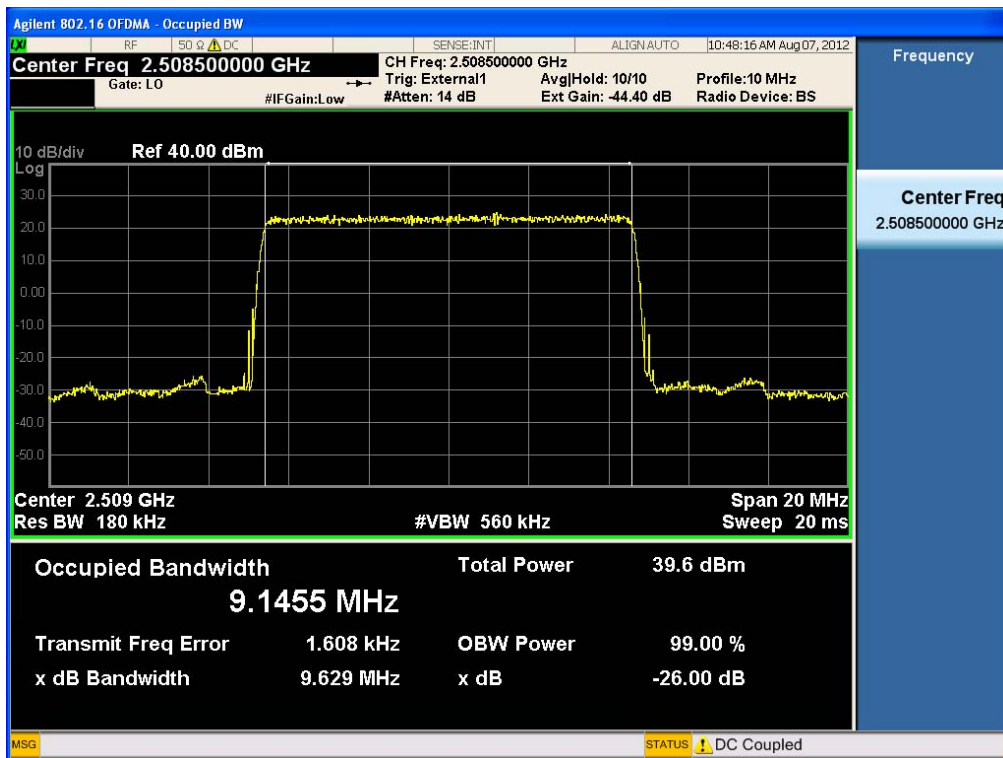
6.4.4. Test Data at Output Port 4

Modulation	Frequency	Measured Bandwidth	
		99 %	26 dB
QPSK	2508.5	9.1462	9.629
	2630.5	9.1449	9.626
	2683.5	9.1423	9.624
16QAM	2508.5	9.1488	9.631
	2630.5	9.1659	9.624
	2683.5	9.1376	9.628
64QAM	2508.5	9.1490	9.632
	2630.5	9.1428	9.630
	2683.5	9.1520	9.629

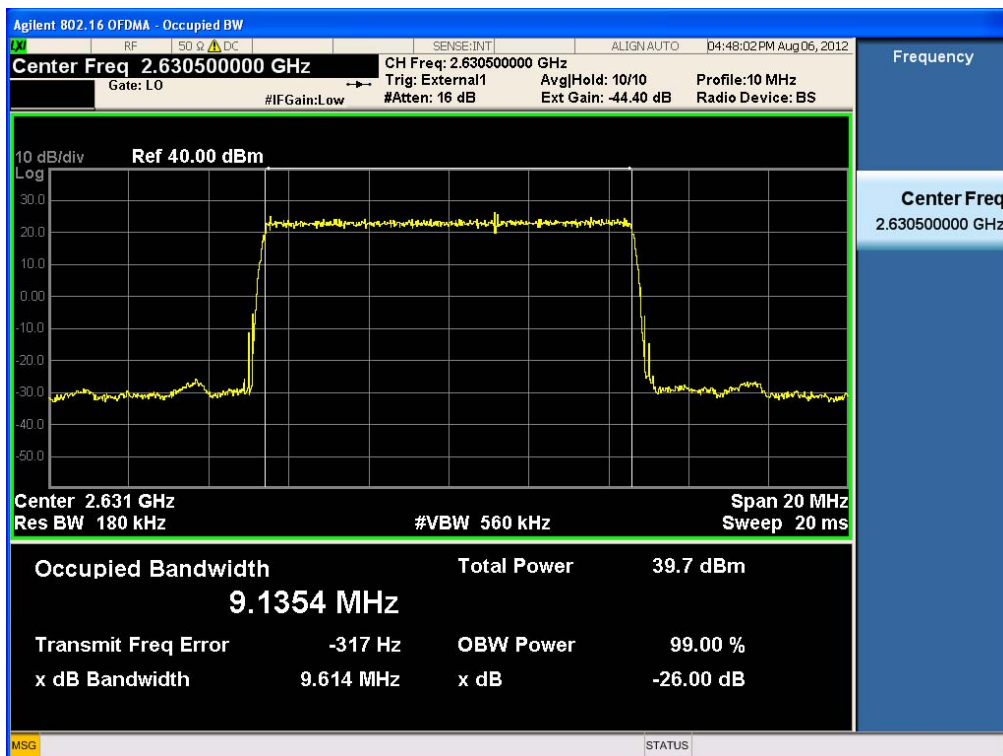
FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
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6.4.5. Test Plot at Output Port 1

(QPSK Low Channel)



(QPSK Middle Channel)



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