



HCT CO., LTD.

CERTIFICATION DIVISION

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CERTIFICATE OF COMPLIANCE

FCC PART 27 Certification

Applicant Name:

416, Maetan-3dong, Yeongtong-gu, Suwon-si,
Gyeonggi-do, Korea

Date of Issue: November 05, 2013

Test Site/Location:

74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si,
Gyeonggi-do, Korea

Test Report No.: HCTR1311FR01

FCC ID : **A3LSLS-BD10JQ**

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

EUT Type : RRH (Remote Radio Head)
Manufacturer : SAMSUNG Electronics Co., Ltd.
Model name : SLS-BD10JQ
Frequency of Operation : 2 496 MHz ~ 2 690 MHz
TX Output Power : 160 W (20 W * 8 ports)
FCC Rule Part(s) : FCC Part 27 Subpart (c).
Emission Designator : 18M0G7W(QPSK), 18M0W7W(16QAM/64QAM)
Test Procedure(s) : ANSI/TIA-603C-2004
Application Type : Original Equipment
Data of issue : November 04, 2013

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
: Yong Hyun Lee
Test engineer of RF Team

Approved by
: Chang Seok Choi
Manager of RF Team

FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 1 of 473

Revision

TEST REPORT NO.	DATE	DESCRIPTION
HCTR1311FR01	November 05, 2013	First Approval Report

FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 2 of 473

C O N T E N T S

1. GENERAL INFORMATION.....	5
1.1. Client Information.....	5
1.2. Product Information	5
1.3. Introduction of EUT	6
2. TEST SUMMARY	7
2.1. Standards	7
2.2. Mode of operation during the test	7
3. STANDARDS ENVIRONMENTAL TEST CONDITIONS	8
4. TEST EQUIPMENT	8
5. CONDUCTED OUTPUT POWER.....	9
5.1. Applicable Standard	9
5.2. Test Equipment List and Details	9
5.3. Test Procedure.....	9
5.4. Test Result	10
6. OCCUPIED BANDWIDTH	109
6.1. Applicable Standard	109
6.2. Test Equipment List and Details	109
6.3. Test Procedure.....	109
6.4. Test Result	110
7. SPURIOUS EMISSION AT ANTENNA TERMINAL	207
7.1. Applicable Standard.....	207
7.2. Test Equipment List and Details	207
7.3. Test Procedure.....	207
7.4. Test Result	207
8. RADIATED SPURIOUS EMISSION	468
8.1 Applicable Standard.....	468
8.2 Test Equipment List and Details	468
8.3 Test Procedure.....	469
8.4 Test Result	470
9. FREQUENCY STABILITY	471
9.1 Applicable Standard	471
9.2 Test Equipment List and Details	471
9.3 Test Procedure.....	471

FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 3 of 473

9.4. Test Result 471

FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 4 of 473

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: Hwan-Chul Ryu / Principal Research Engineer E-mail : ryu0022@samsung.com Tel: +82-31-279-1023 Fax: +82-31-279-7676

1.2. Product Information

EUT TYPE	RRH (Remote Radio Head)
EMISSION DESIGNATOR	18M0G7W(QPSK), 18M0W7W(16QAM/64QAM)
OPERATING FREQUENCY	2 496 MHz ~ 2 690 MHz
TX OUTPUT POWER	160 W (20 W * 8 Ports)
CHANNEL BANDWIDTH	LTE : 20 MHz
MODULATION TYPE	QPSK, 16QAM, 64QAM
MAXIMUM NUMBER OF CARRIERS/SECTORS	① Max 3 Carrier @ 6.67 W/carrier ② Max 2 Carrier @ 10 W/carrier
SYSTEM INPUT VOLTAGE	DC - 48 V

FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 5 of 473

1.3. Introduction of EUT

‘CMTA’ + ‘PA’ are wideband RU(RF UNIT) with 8 transmits and 8 receive chain that covers the frequency range from 2496 to 2690MHz for TDLTE downlink and uplink. CMTA is main RF UNIT and PA is Front end unit which include Power Amp and LNA (low noise amplifier)

It provides 8 Transmit and 8 Receive path

- Operates TDLTE 8Tx/8Rx, 4Tx/8Rx, 4Tx/4Rx, 2Tx/2Rx

60MHz band operation bandwidth in transmit and receive path

- Operational frequency range for uplink/downlink : 2496 ~ 2690MHz

Output power of RU(RF UNIT) at the output port is

- The maximum average RF output power per path is 20W, and the overall maximum output power of RU is 160W which is the total output power over 8TX paths.
- The output power is dependent on the carrier configurations

① 6.67W x 8Tx @ 8T8R up to 3Carrier (1.2dB Power Boosting)

This means 6.67W per carrier, up to 3 carriers per port,

8 ports = $8 \times 3 \times 6.67 \text{ W} = 160\text{Watts}$ total power.

Maximum power per port is $6.67 \times 3 = 20\text{Watts}$.

② 10W x 4Tx @ 4T8R, up to 2Carrier + 2Carrier (3dB Power Boosting)

This means 10W per carrier, up to 2 carriers per port and the rf outputs are split into two groups, each supporting 4MIMO transmit chains.

Total power = $(10 \times 2 \times 4) \times 2 = 160\text{W}$ total power.

Maximum power per port is $10\text{W} \times 2 = 20\text{W}$.

All eight ports receive and are used to support both transmit groups (so we have 4Tx8Rx on each group).

③ 6.6W x 4Tx @ 4T8R, 3Carrier + 3Carrier (1.2dB Power Boosting)

This means 6.6W per carrier, up to 3 carriers per port, and the rf outputs are split into two groups, each supporting 4MIMO transmit chains.

Total power = $(6.6 \times 3 \times 4) \times 2 = 158\text{W}$ total power.

Maximum power per port is $6.6\text{W} \times 3 = 19.8\text{W}$.

FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 6 of 473

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.

FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 7 of 473

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	1151	07/05/2015
Schwarzbeck	VULB 9160 / TRILOG Antenna	3150	12/17/2014
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
Rohde & Schwarz	SCU-18/ Signal Conditioning Unit	10094	09/10/2014
Agilent	N9020A /Signal Analyzer	US46220219	04/25/2014
Rohde & Schwarz	FSP / Spectrum Analyzer	839117/011	02/08/2014
Agilent	6674A / DC Power Supply	3501A00901	04/16/2014
WEINSCHL	67-30-33 / Attenuator	CC7264	08/27/2014
WEINSCHL	67-30-33 / Attenuator	CC7265	08/27/2014
WEINSCHL	AF9003-69-31 / Attenuator	11787	10/21/2014
Nang-Yeoul	NY-THR18750 / Temperature Chamber	NY-2009012201A	10/30/2014

FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 8 of 473

5. CONDUCTED OUTPUT POWER

5.1. Applicable Standard

According to FCC §2.1046 & 27.50(h)

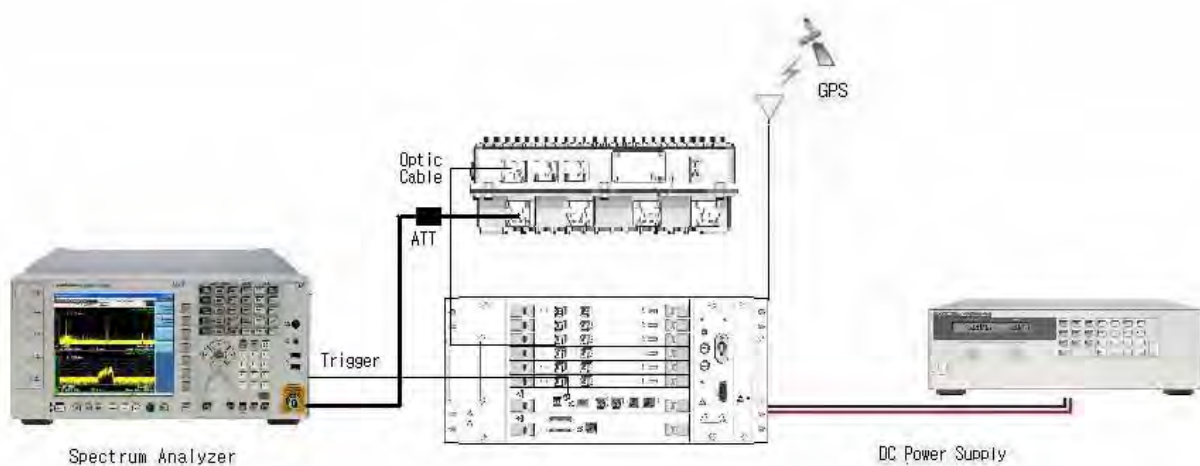
1) *Main, booster and base stations.* (i) The maximum EIRP of a main, booster or base station shall not exceed $33 \text{ dBW} + 10\log(X/Y) \text{ dBW}$, where X is the actual channel width in MHz and Y is either 6 MHz if prior to transition or the station is in the MBS following transition or 5.5 MHz 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	04/25/2014
Agilent	6674A / DC Power Supply	3501A00901	04/16/2014
WEINSCHL	67-30-33 / Attenuator	CC7264	08/27/2014
WEINSCHL	67-30-33 / Attenuator	CC7265	08/27/2014
WEINSCHL	AF9003-69-31 / Attenuator	11787	10/21/2014

5.3. Test Procedure

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



FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 9 of 473

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

FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 10 of 473

LTE20M(6.67W)

5.4.1. Test Data at Output Port 1

Frequency (MHz)	Output Power					
	QPSK		16QAM		64QAM	
	dBm	W	dBm	W	dBm	W
2506	37.87	6.121	37.88	6.142	37.97	6.269
2593	38.02	6.339	37.93	6.212	37.98	6.281
2680	38.00	6.310	37.96	6.256	38.03	6.358

5.4.2. Test Data at Output Port 5

Frequency (MHz)	Output Power					
	QPSK		16QAM		64QAM	
	dBm	W	dBm	W	dBm	W
2506	37.80	6.028	37.75	5.959	37.79	6.008
2593	37.86	6.114	37.81	6.039	37.92	6.193
2680	37.76	5.976	37.80	6.028	37.84	6.080

FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 11 of 473

LTE20M(6.67W) 3 Carrier

5.5.1. Test Data at Output Port 1

Frequency (MHz)	Output Power					
	QPSK		16QAM		64QAM	
	dBm	W	dBm	W	dBm	W
2526	42.77	18.906	42.90	19.485	42.84	19.226
2593	43.18	20.802	42.74	18.772	43.26	21.203
2660	42.96	19.765	42.96	19.765	42.89	19.463

5.5.2. Test Data at Output Port 5

Frequency (MHz)	Output Power					
	QPSK		16QAM		64QAM	
	dBm	W	dBm	W	dBm	W
2526	42.09	16.185	42.34	17.147	42.41	17.410
2593	42.66	18.454	42.76	18.867	42.75	18.832
2660	42.83	19.178	42.91	19.543	42.73	18.746

FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 12 of 473

LTE20M(10W)

5.6.1. Test Data at Output Port 1

Frequency (MHz)	Output Power					
	QPSK		16QAM		64QAM	
	dBm	W	dBm	W	dBm	W
2506	39.66	9.253	39.69	9.318	39.71	9.352
2593	39.53	8.980	39.56	9.039	39.62	9.164
2680	39.46	8.833	39.36	8.636	39.49	8.888

5.6.2. Test Data at Output Port 2

Frequency (MHz)	Output Power					
	QPSK		16QAM		64QAM	
	dBm	W	dBm	W	dBm	W
2506	39.86	9.689	39.72	9.373	39.64	9.204
2593	39.62	9.164	39.54	8.999	39.66	9.236
2680	39.97	9.922	39.91	9.795	39.96	9.904

5.6.3. Test Data at Output Port 3

Frequency (MHz)	Output Power					
	QPSK		16QAM		64QAM	
	dBm	W	dBm	W	dBm	W
2506	39.86	9.683	39.57	9.057	39.77	9.484
2593	39.64	9.202	39.67	9.273	39.67	9.273
2680	39.63	9.192	39.53	8.976	39.59	9.095

5.6.4. Test Data at Output Port 4

Frequency (MHz)	Output Power					
	QPSK		16QAM		64QAM	
	dBm	W	dBm	W	dBm	W
2506	39.65	9.228	39.57	9.066	39.87	9.703
2593	39.74	9.419	39.92	9.824	39.92	9.817
2680	40.07	10.165	40.04	10.095	40.27	10.649

FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 13 of 473

5.6.5. Test Data at Output Port 5

Frequency (MHz)	Output Power					
	QPSK		16QAM		64QAM	
	dBm	W	dBm	W	dBm	W
2506	39.57	9.061	39.73	9.389	39.59	9.095
2593	39.89	9.754	39.71	9.356	39.82	9.601
2680	39.61	9.150	39.44	8.796	39.51	8.939

5.6.6. Test Data at Output Port 6

Frequency (MHz)	Output Power					
	QPSK		16QAM		64QAM	
	dBm	W	dBm	W	dBm	W
2506	39.74	9.410	39.67	9.262	39.72	9.365
2593	39.79	9.519	39.69	9.318	39.71	9.363
2680	40.05	10.123	40.01	10.028	40.03	10.060

5.6.7. Test Data at Output Port 7

Frequency (MHz)	Output Power					
	QPSK		16QAM		64QAM	
	dBm	W	dBm	W	dBm	W
2506	39.75	9.443	39.62	9.160	39.60	9.129
2593	39.62	9.152	39.51	8.941	39.48	8.870
2680	39.70	9.330	39.42	8.748	39.66	9.247

5.6.8. Test Data at Output Port 8

Frequency (MHz)	Output Power					
	QPSK		16QAM		64QAM	
	dBm	W	dBm	W	dBm	W
2506	39.67	9.262	39.68	9.294	39.82	9.598
2593	39.61	9.133	39.54	9.003	39.62	9.166
2680	39.92	9.822	39.79	9.517	39.82	9.601

FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 14 of 473

5.6.9. Measure and sum data (8 Ports)

Frequency (MHz)	Output Power (W)		
	QPSK	16QAM	64QAM
2506	75.029	73.919	74.930
2593	74.323	73.753	74.490
2680	76.537	74.591	76.383

FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 15 of 473

LTE20M(10W) 2 Carrier

5.7.1. Test Data at Output Port 1

Frequency (MHz)	Output Power					
	QPSK		16QAM		64QAM	
	dBm	W	dBm	W	dBm	W
2516	42.60	18.205	42.66	18.459	42.66	18.467
2593	42.67	18.510	42.54	17.931	42.44	17.535
2670	42.64	18.382	42.69	18.578	42.68	18.548

5.7.2. Test Data at Output Port 2

Frequency (MHz)	Output Power					
	QPSK		16QAM		64QAM	
	dBm	W	dBm	W	dBm	W
2516	42.84	19.218	42.75	18.823	42.69	18.578
2593	43.10	20.436	42.98	19.861	42.83	19.182
2670	42.53	17.898	42.40	17.390	42.34	17.140

5.7.3. Test Data at Output Port 3

Frequency (MHz)	Output Power					
	QPSK		16QAM		64QAM	
	dBm	W	dBm	W	dBm	W
2516	42.95	19.715	42.93	19.620	42.95	19.724
2593	42.61	18.247	42.55	17.980	42.52	17.853
2670	42.80	19.055	43.09	20.370	43.02	20.059

5.7.4. Test Data at Output Port 4

Frequency (MHz)	Output Power					
	QPSK		16QAM		64QAM	
	dBm	W	dBm	W	dBm	W
2516	42.64	18.365	42.64	18.353	42.59	18.155
2593	42.50	17.791	42.62	18.285	42.67	18.488
2670	42.88	19.409	42.91	19.543	42.80	19.072

FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 16 of 473

5.7.5. Test Data at Output Port 5

Frequency (MHz)	Output Power					
	QPSK		16QAM		64QAM	
	dBm	W	dBm	W	dBm	W
2516	42.71	18.647	42.52	17.861	42.48	17.693
2593	42.77	18.941	42.60	18.180	42.44	17.527
2670	42.81	19.116	42.94	19.697	42.89	19.436

5.7.6. Test Data at Output Port 6

Frequency (MHz)	Output Power					
	QPSK		16QAM		64QAM	
	dBm	W	dBm	W	dBm	W
2516	42.87	19.364	42.79	19.024	43.04	20.119
2593	42.69	18.565	42.65	18.395	42.66	18.442
2670	42.53	17.902	42.73	18.754	42.80	19.041

5.7.7. Test Data at Output Port 7

Frequency (MHz)	Output Power					
	QPSK		16QAM		64QAM	
	dBm	W	dBm	W	dBm	W
2516	42.85	19.271	43.12	20.502	43.07	20.272
2593	42.42	17.466	42.50	17.787	42.53	17.914
2670	42.30	16.971	42.55	17.972	42.64	18.353

5.7.8. Test Data at Output Port 8

Frequency (MHz)	Output Power					
	QPSK		16QAM		64QAM	
	dBm	W	dBm	W	dBm	W
2516	42.55	17.993	42.73	18.728	42.74	18.776
2593	42.48	17.717	42.52	17.865	42.53	17.898
2670	42.84	19.244	42.70	18.621	42.84	19.231

FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 17 of 473

5.7.9. Measure and sum data (8 Ports)

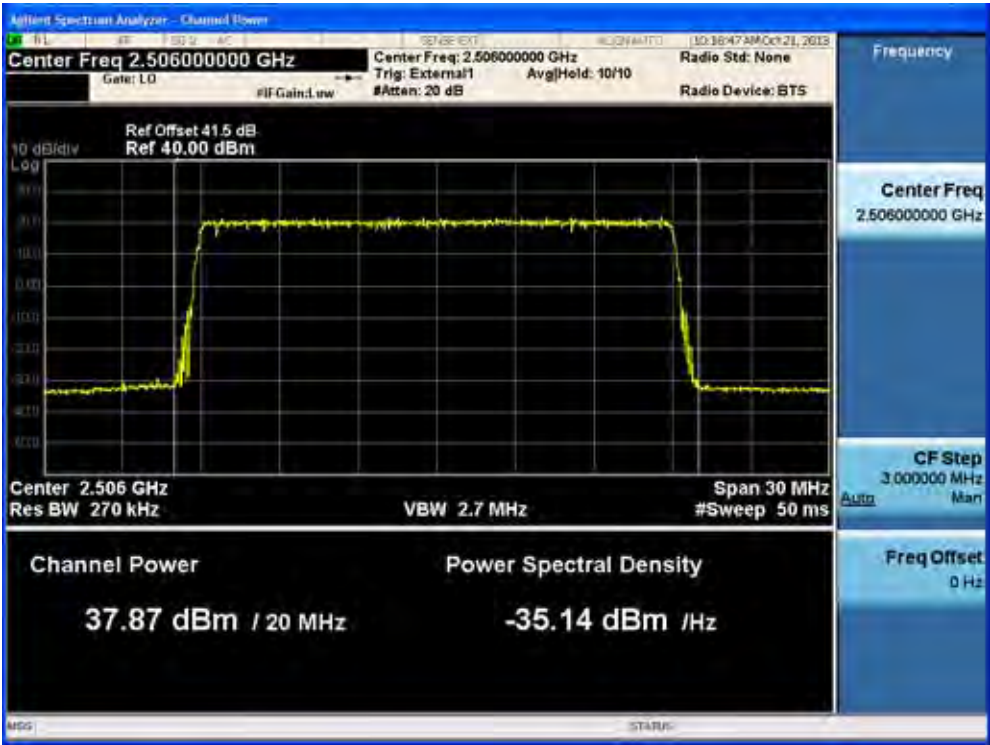
Frequency (MHz)	Output Power (W)		
	QPSK	16QAM	64QAM
2516	150.778	151.370	151.784
2593	147.673	146.284	144.839
2670	147.977	150.925	150.880

FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 18 of 473

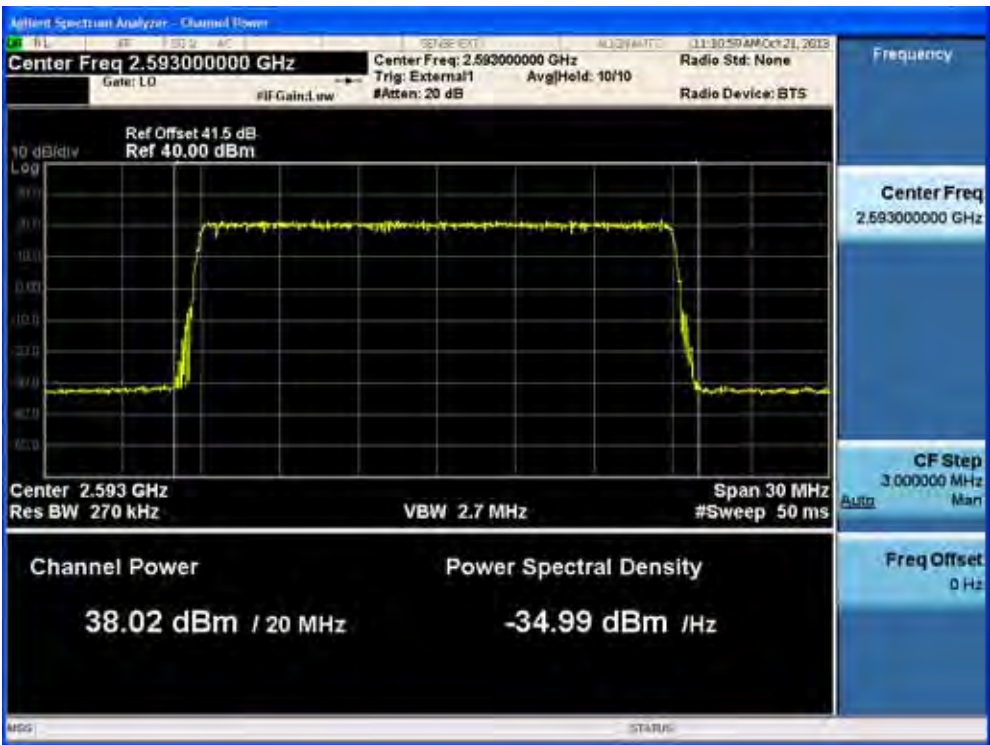
LTE20M(6.67W)

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

(QPSK Low Channel)



(QPSK Middle Channel)

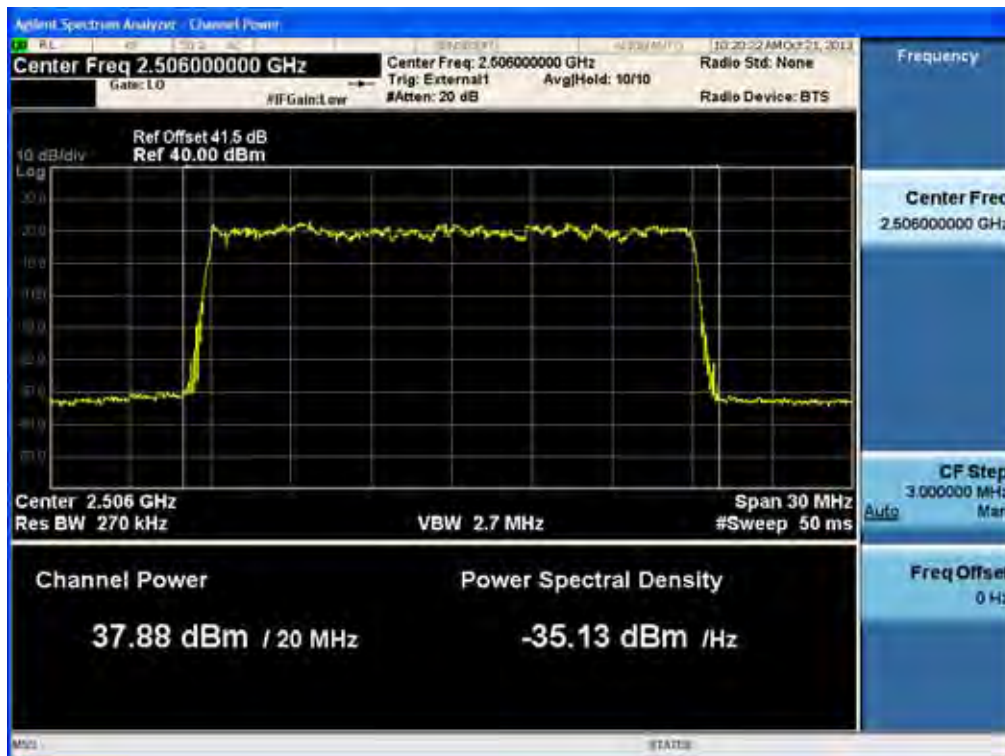


FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 19 of 473

(QPSK High Channel)

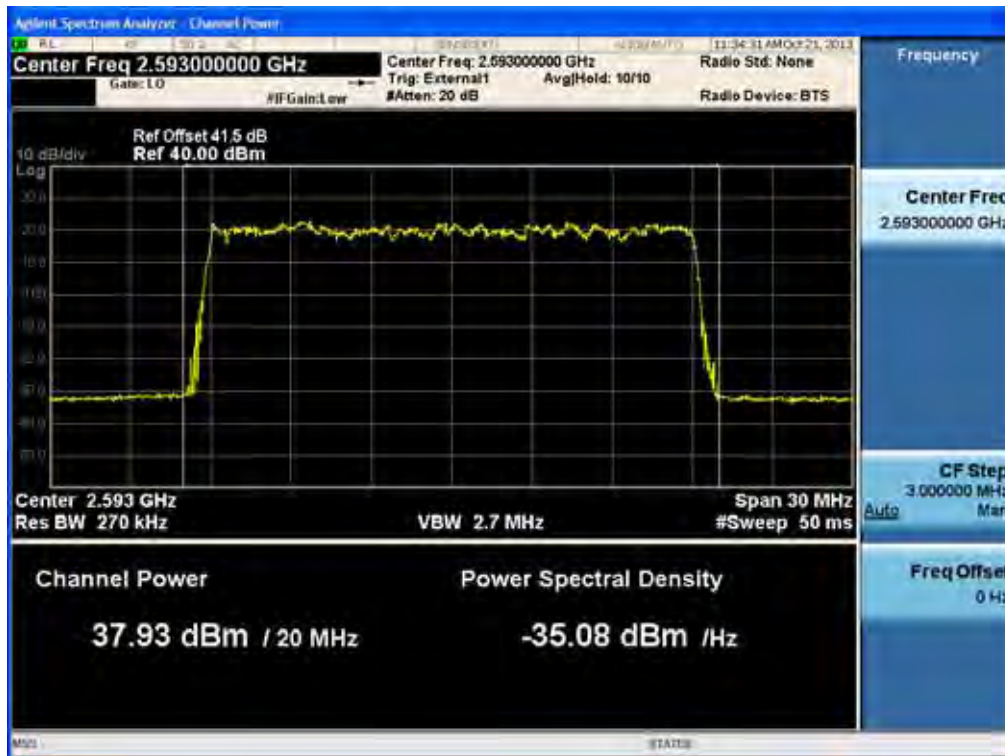


(16QAM Low Channel)

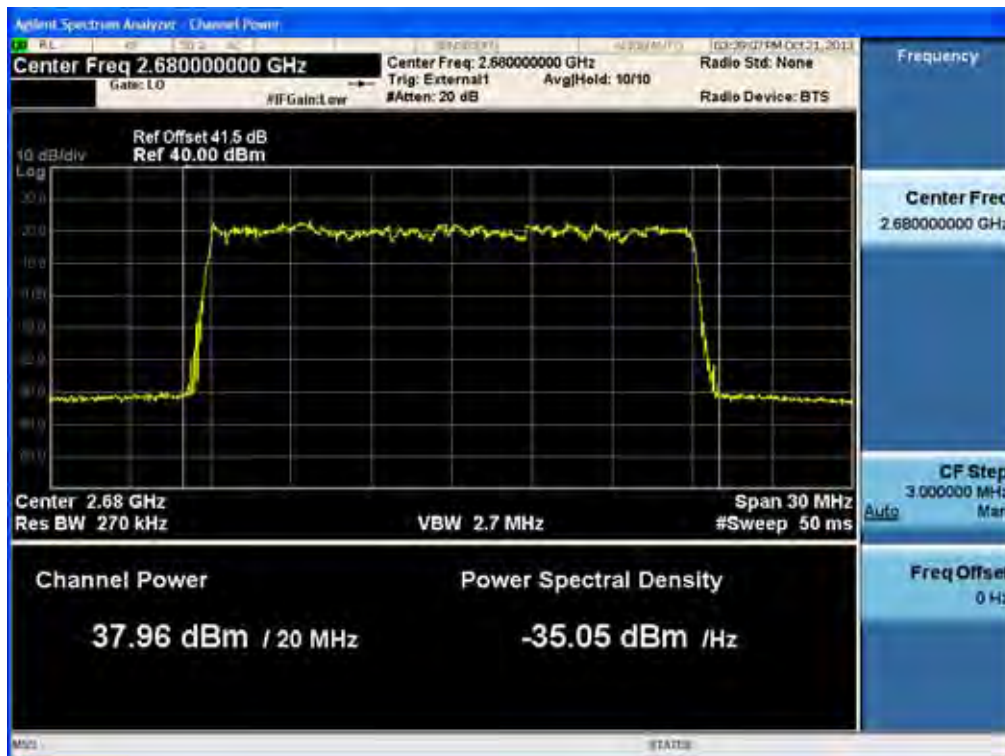


FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 20 of 473

(16QAM Middle Channel)

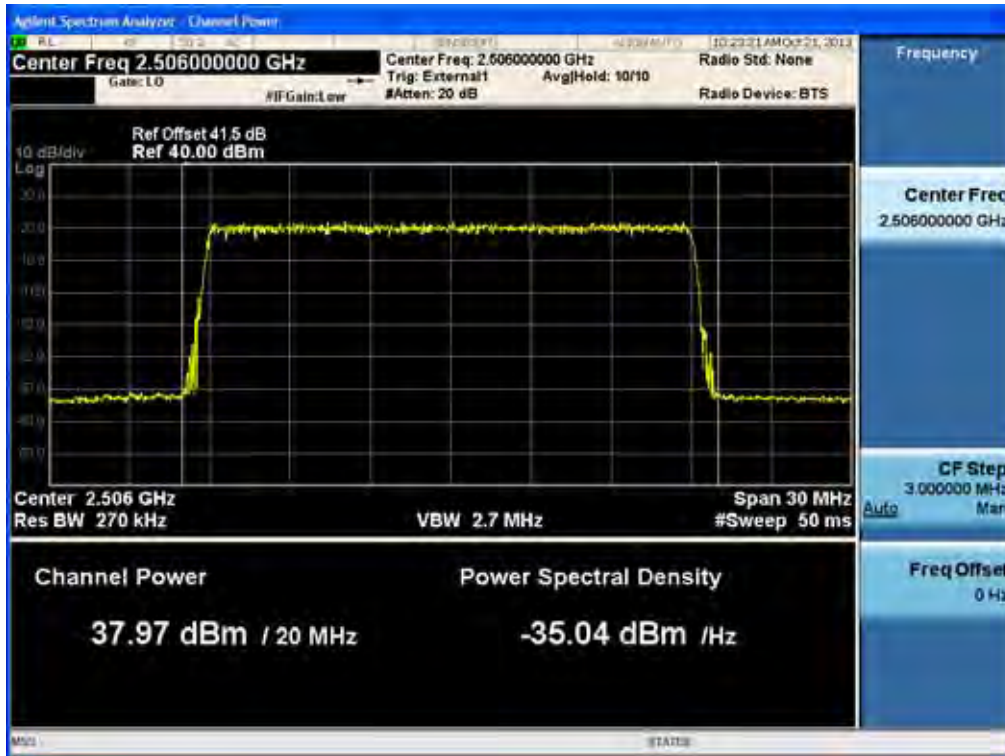


(16QAM High Channel)



FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 21 of 473

(64QAM Low Channel)



(64QAM Middle Channel)



FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 22 of 473

(64QAM High Channel)



5.7.11. Plot Data for Output Port 5 (Conducted Output Power)

(QPSK Low Channel)



FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 23 of 473

(QPSK Middle Channel)

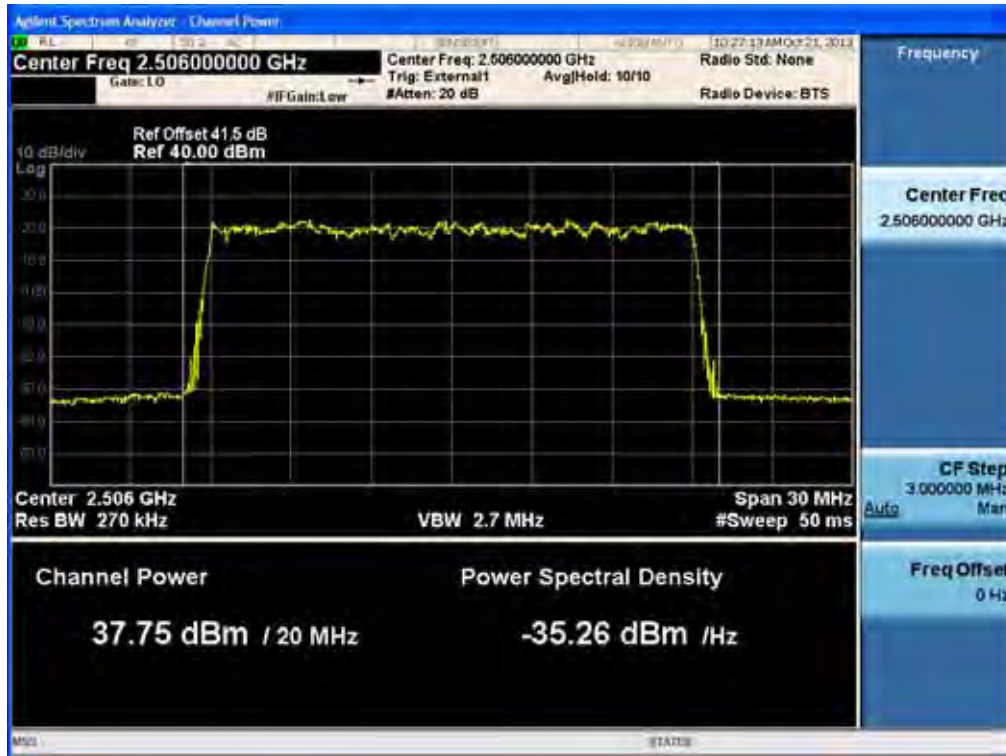


(QPSK High Channel)



FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 24 of 473

(16QAM Low Channel)

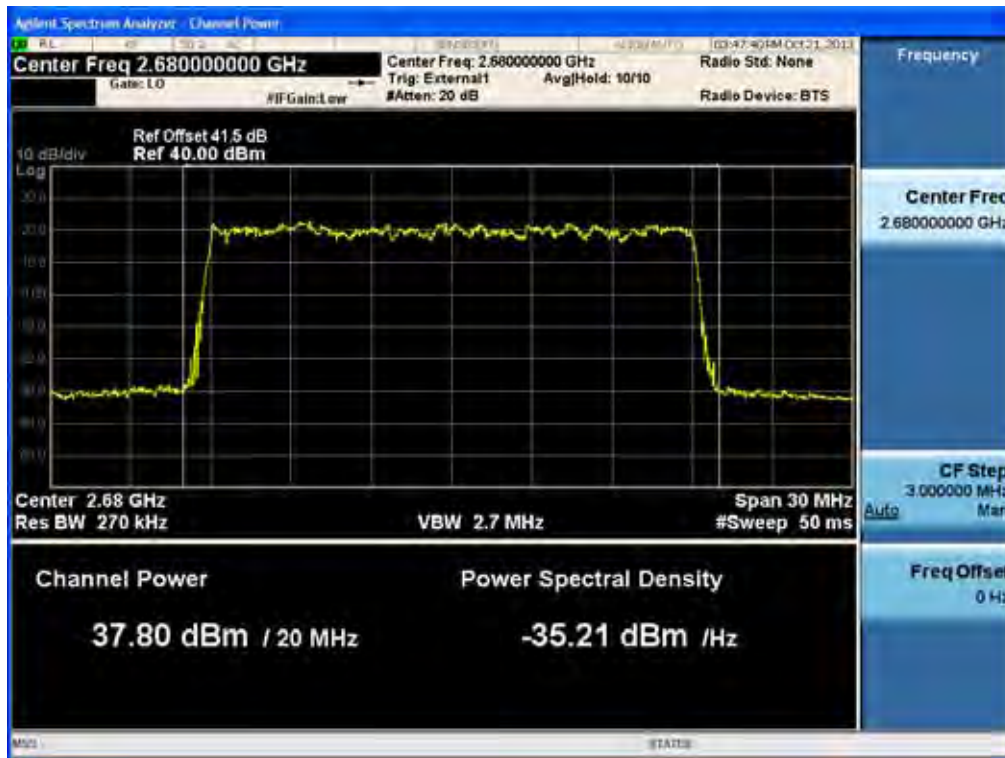


(16QAM Middle Channel)

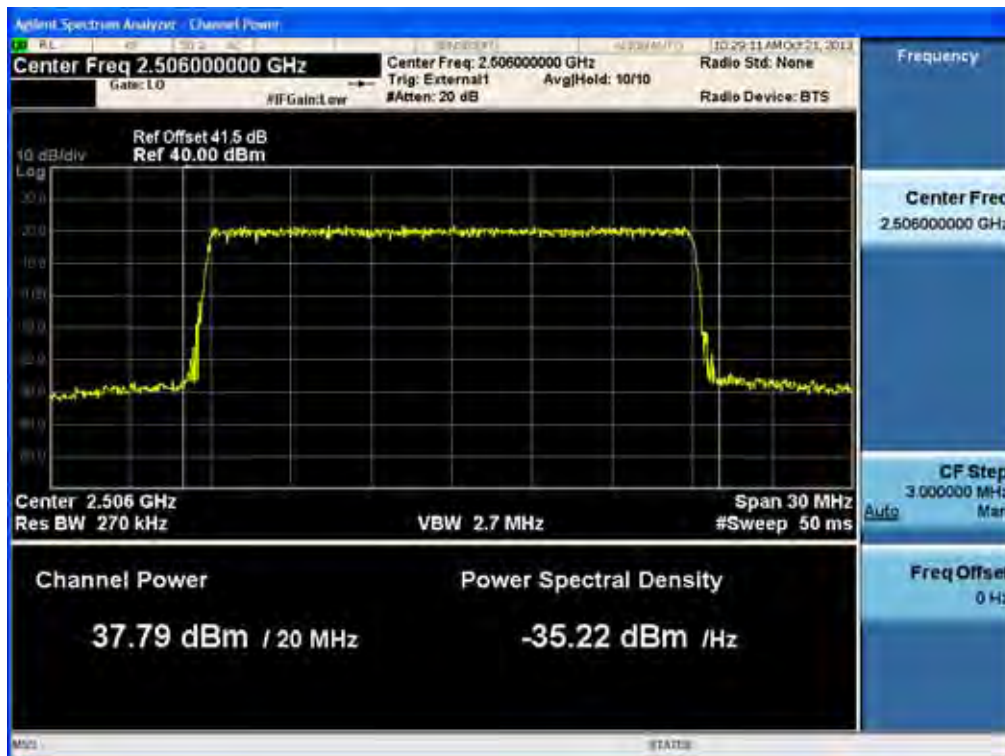


FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 25 of 473

(16QAM High Channel)

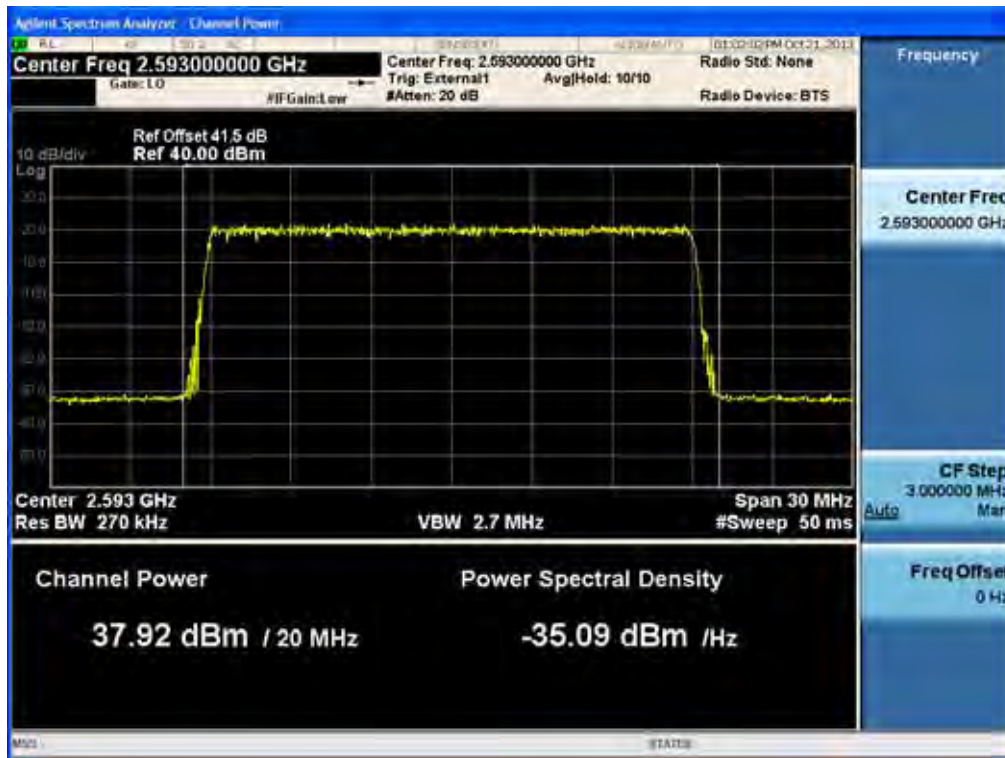


(64QAM Low Channel)

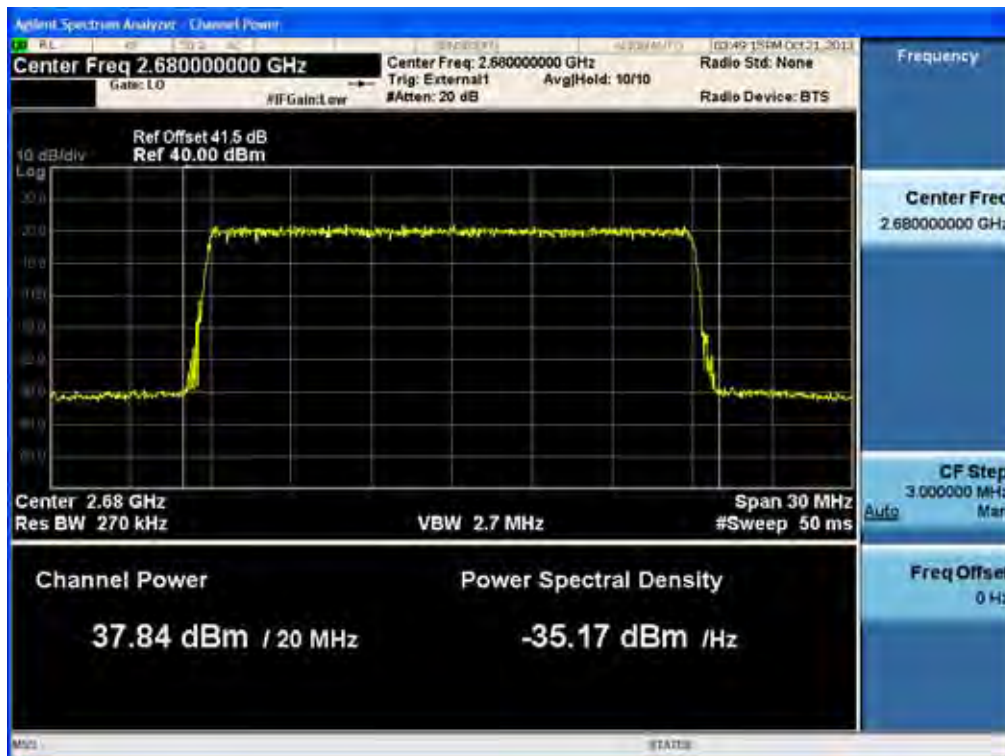


FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 26 of 473

(64QAM Middle Channel)



(64QAM High Channel)

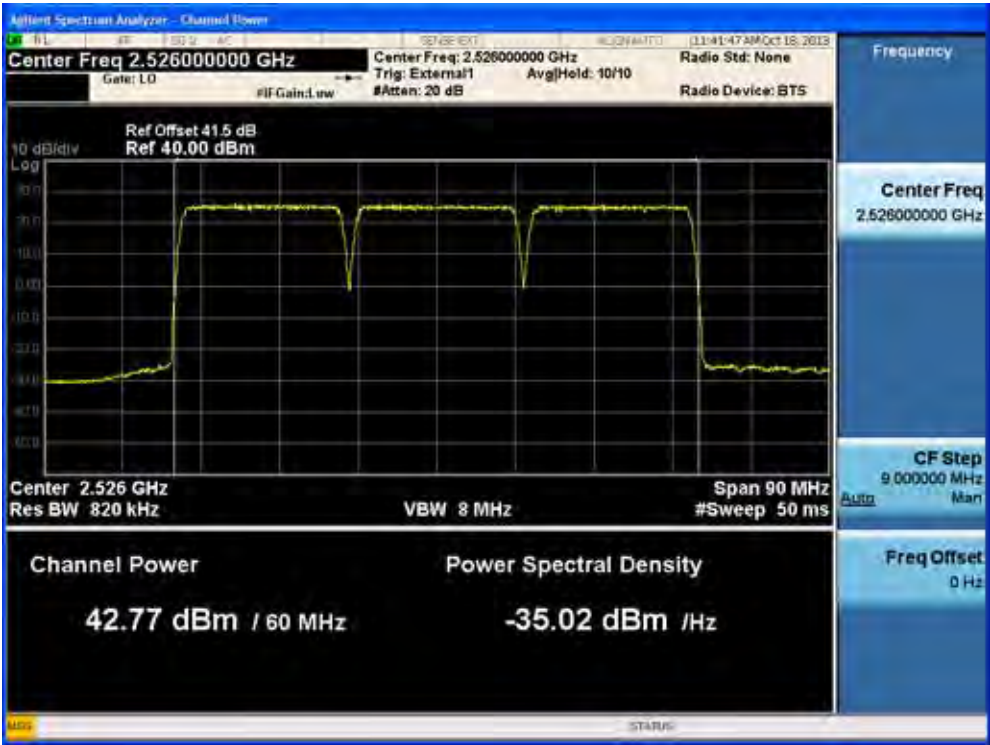


FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 27 of 473

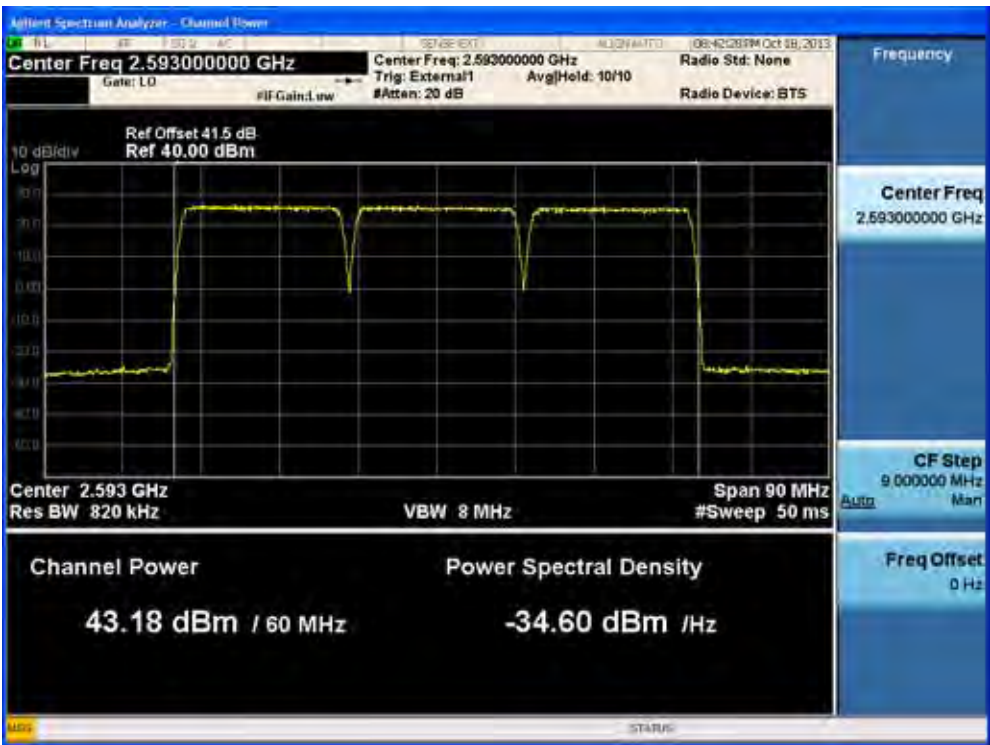
LTE20M(6.67W) 3 Carrier

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

(QPSK Low Channel)



(QPSK Middle Channel)



FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 28 of 473

(QPSK High Channel)

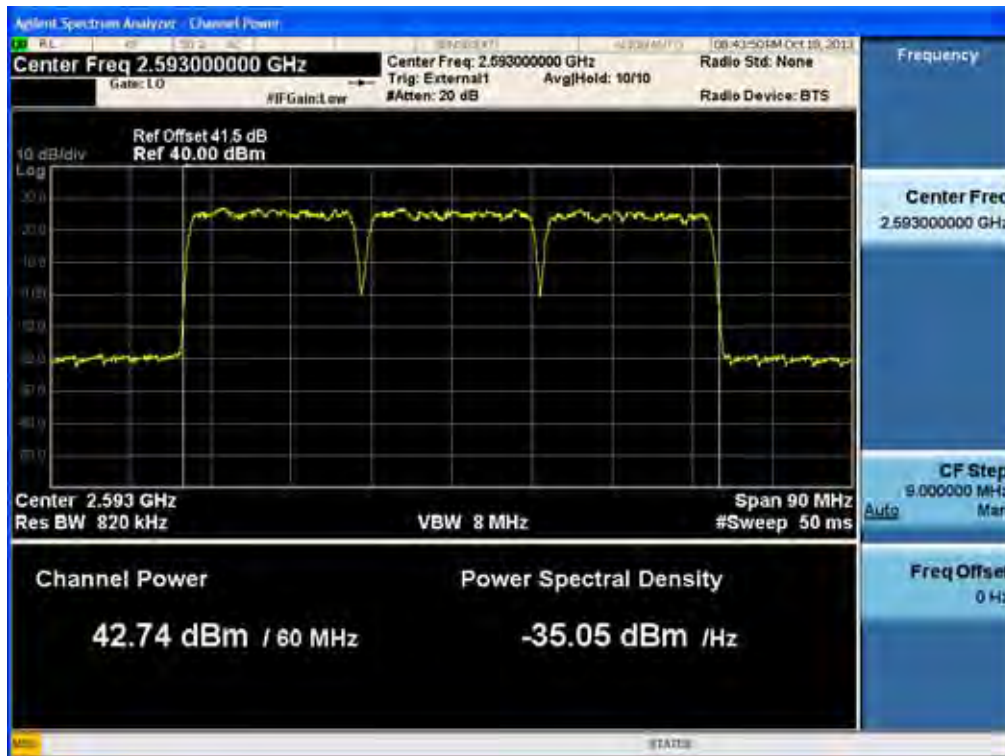


(16QAM Low Channel)

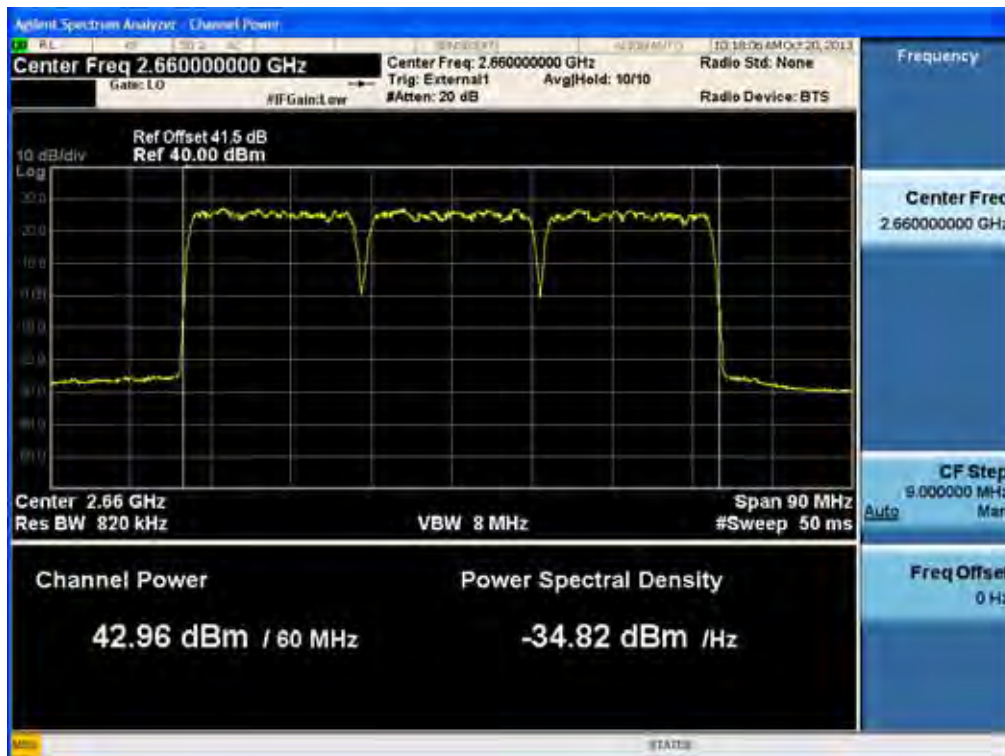


FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 29 of 473

(16QAM Middle Channel)



(16QAM High Channel)



FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 30 of 473

(64QAM Low Channel)

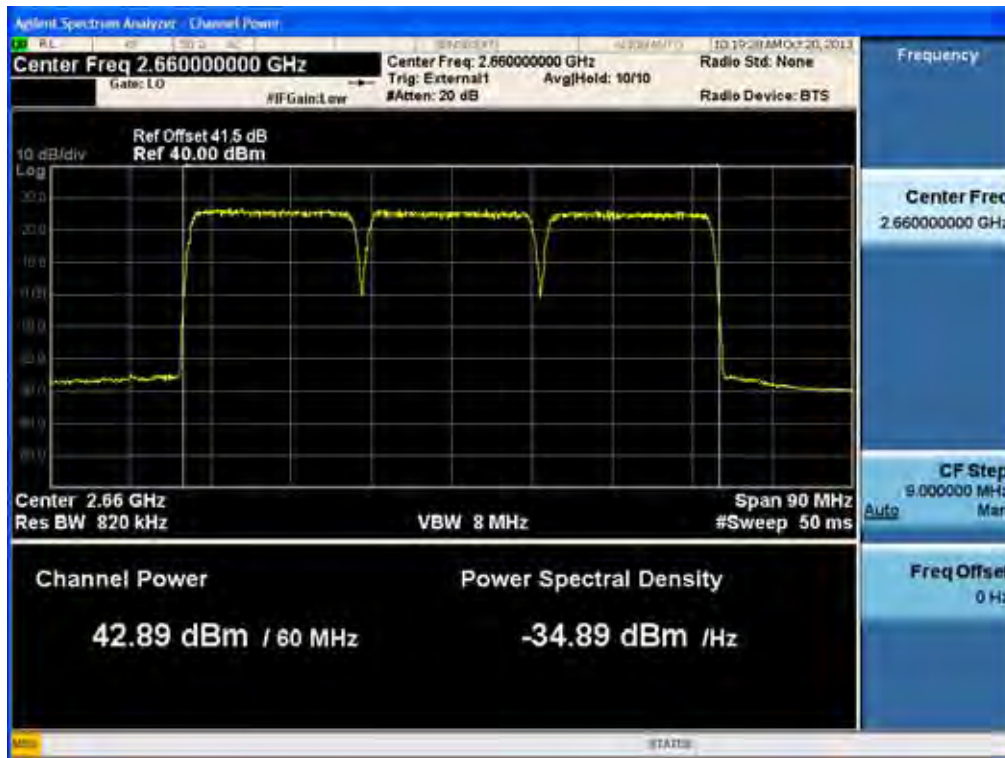


(64QAM Middle Channel)



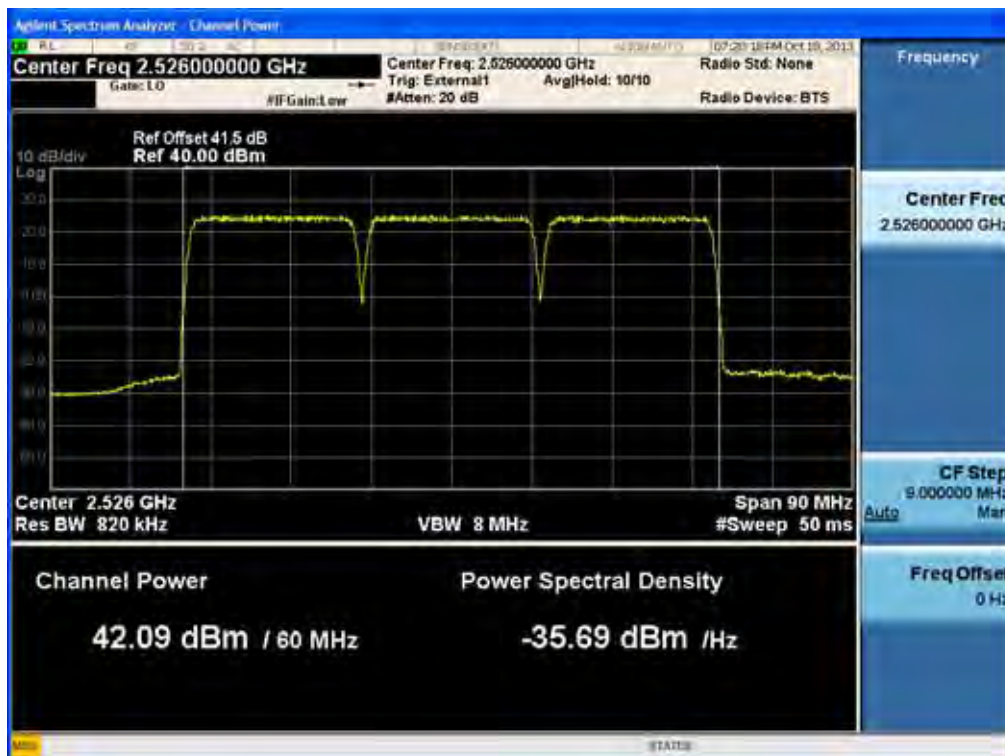
FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 31 of 473

(64QAM High Channel)



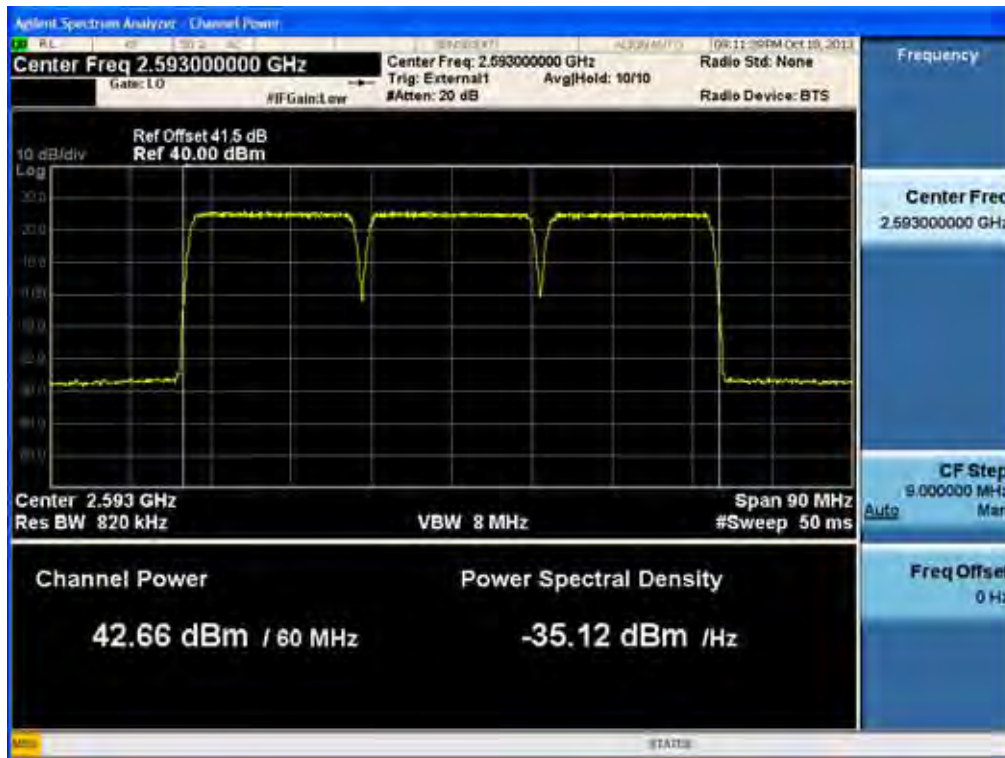
5.7.13. Plot Data for Output Port 5 (Conducted Output Power)

(QPSK Low Channel)

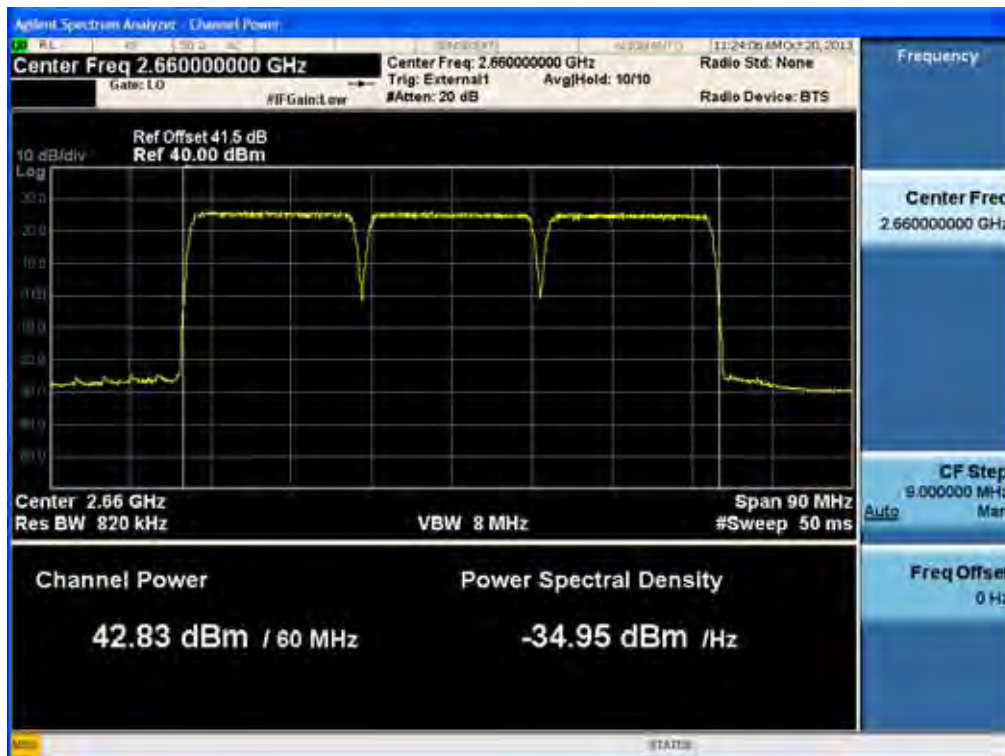


FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 32 of 473

(QPSK Middle Channel)

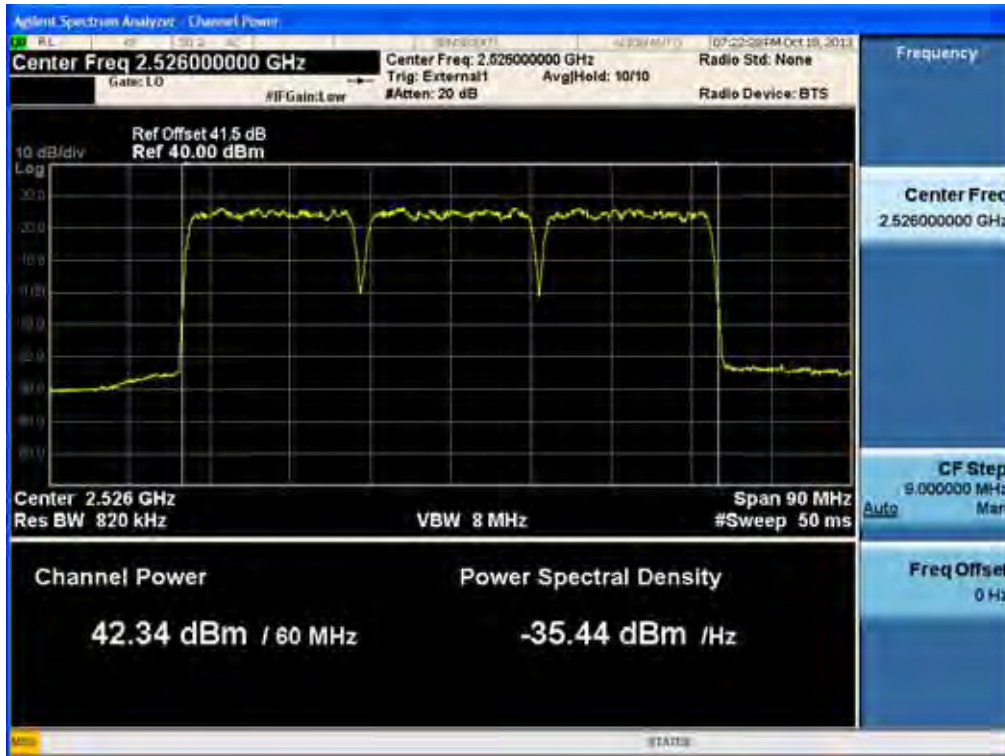


(QPSK High Channel)



FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 33 of 473

(16QAM Low Channel)



(16QAM Middle Channel)

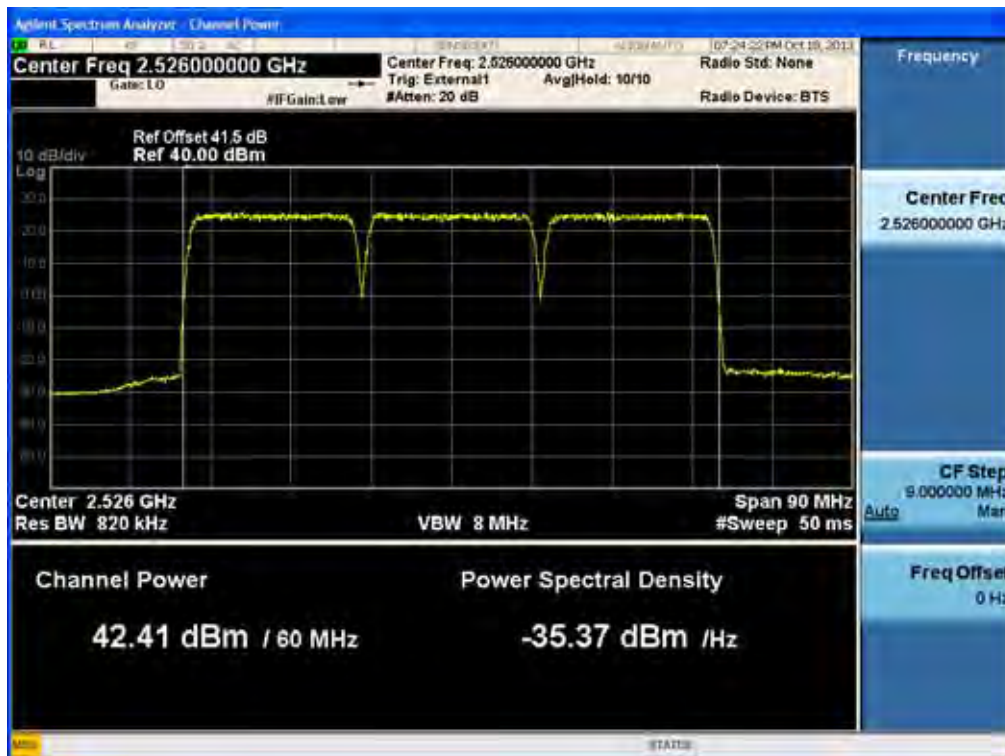


FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 34 of 473

(16QAM High Channel)



(64QAM Low Channel)

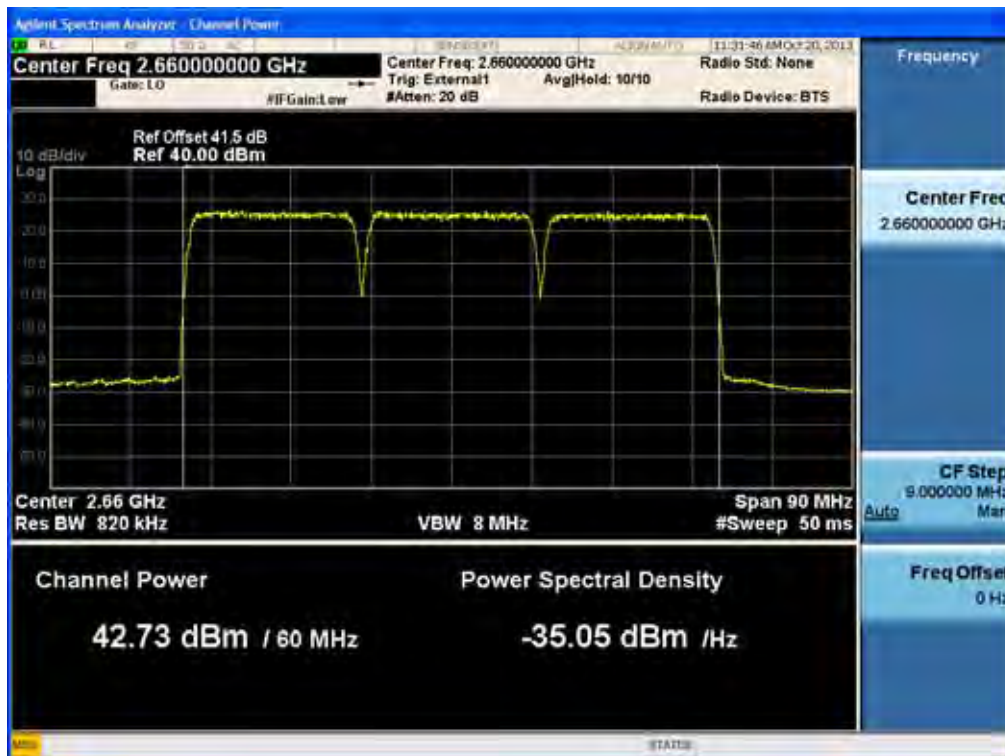


FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 35 of 473

(64QAM Middle Channel)



(64QAM High Channel)

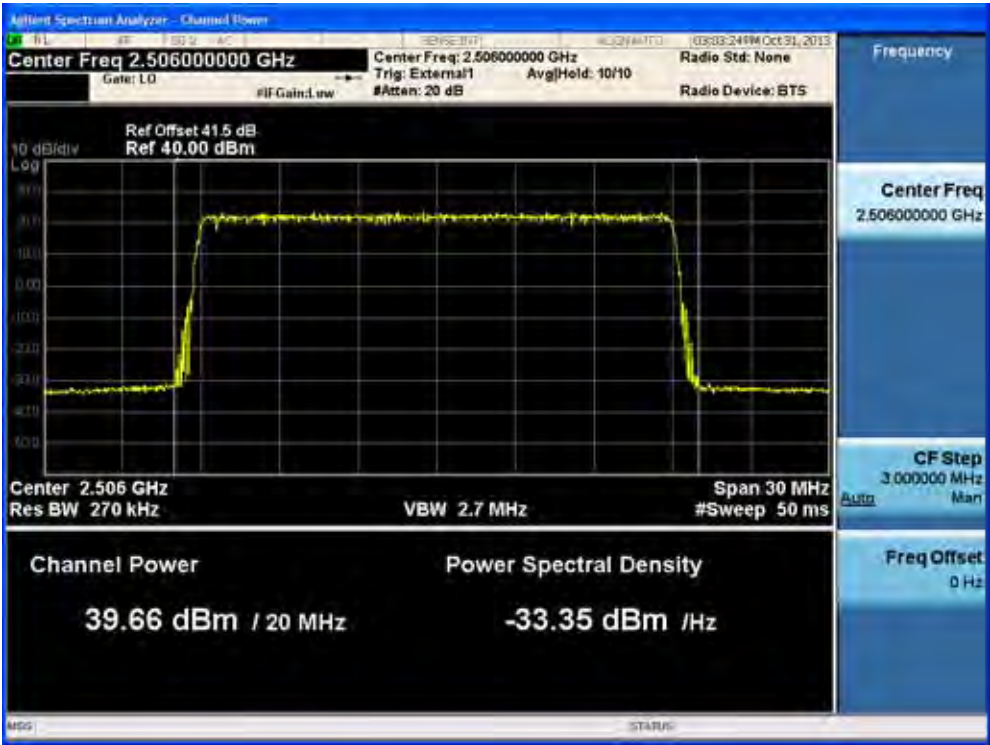


FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 36 of 473

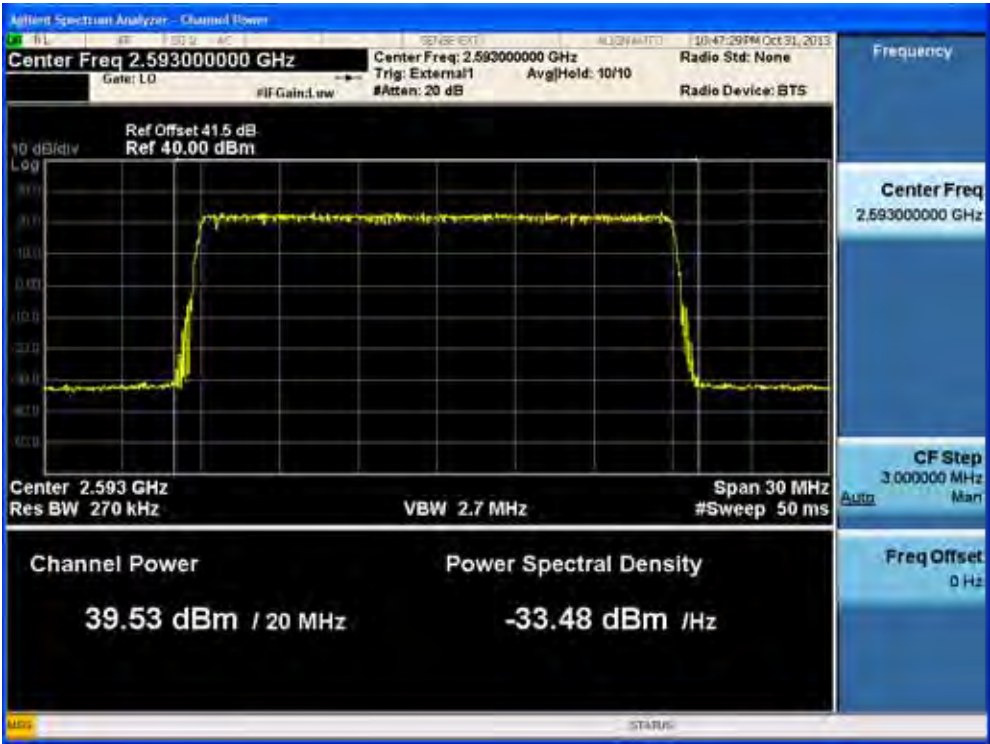
LTE20M(10W)

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

(QPSK Low Channel)

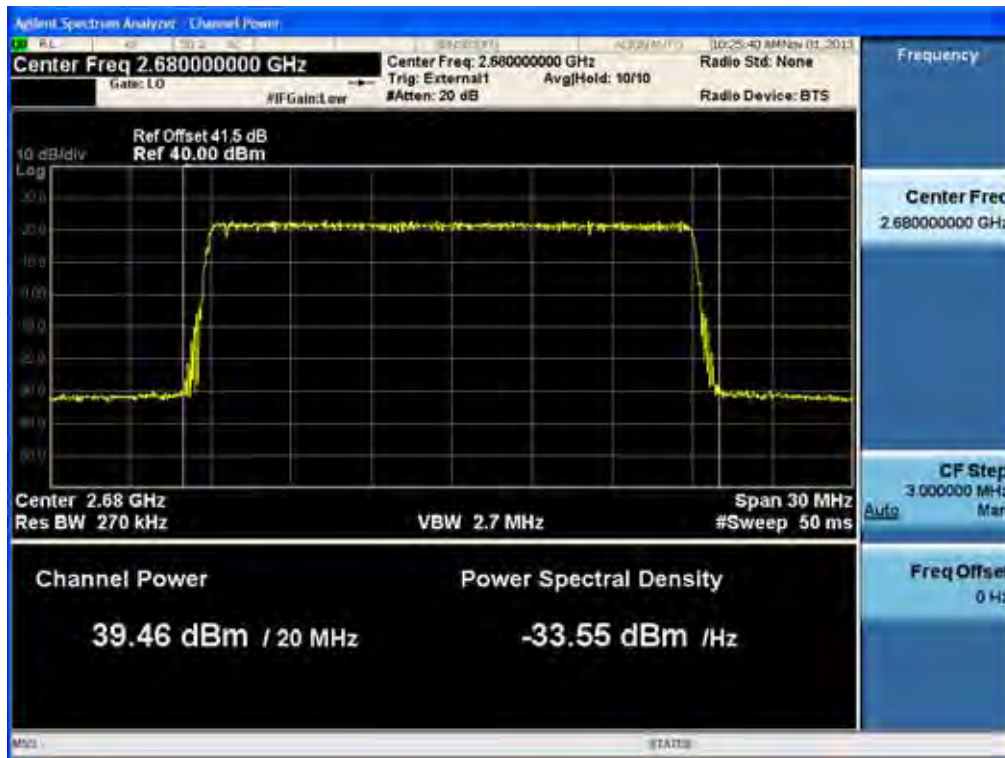


(QPSK Middle Channel)

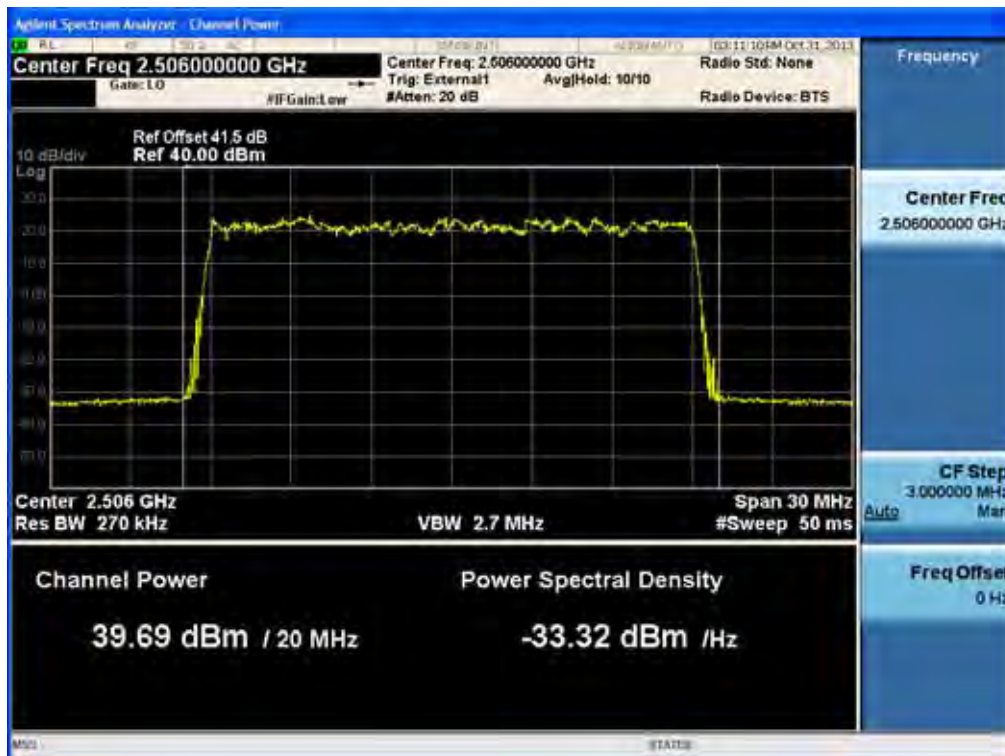


FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 37 of 473

(QPSK High Channel)

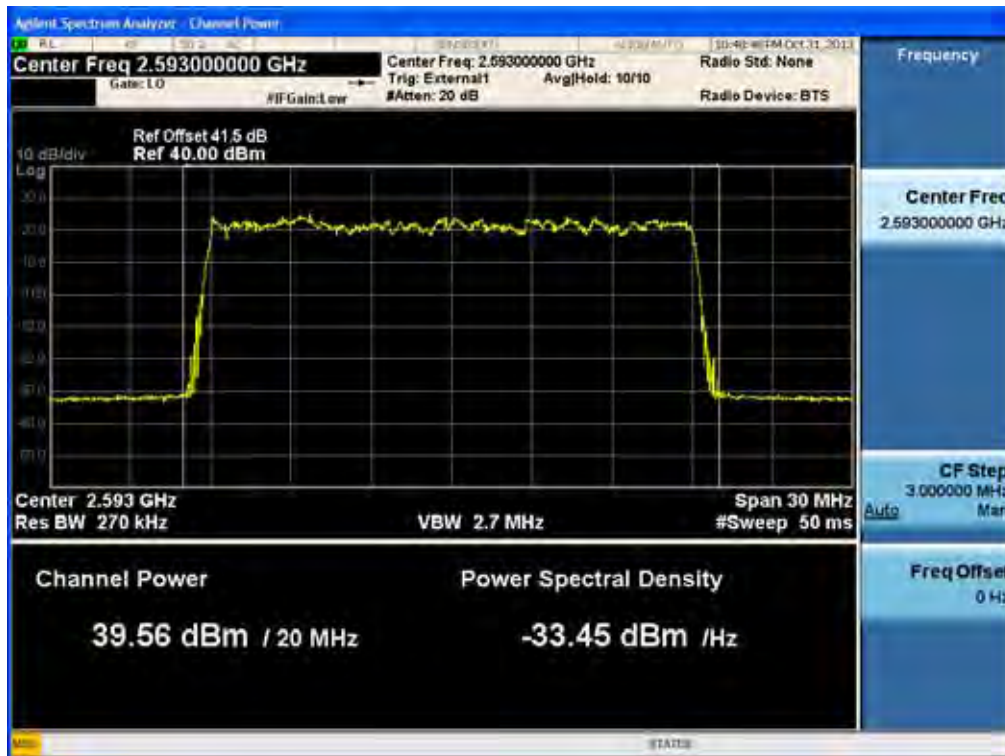


(16QAM Low Channel)

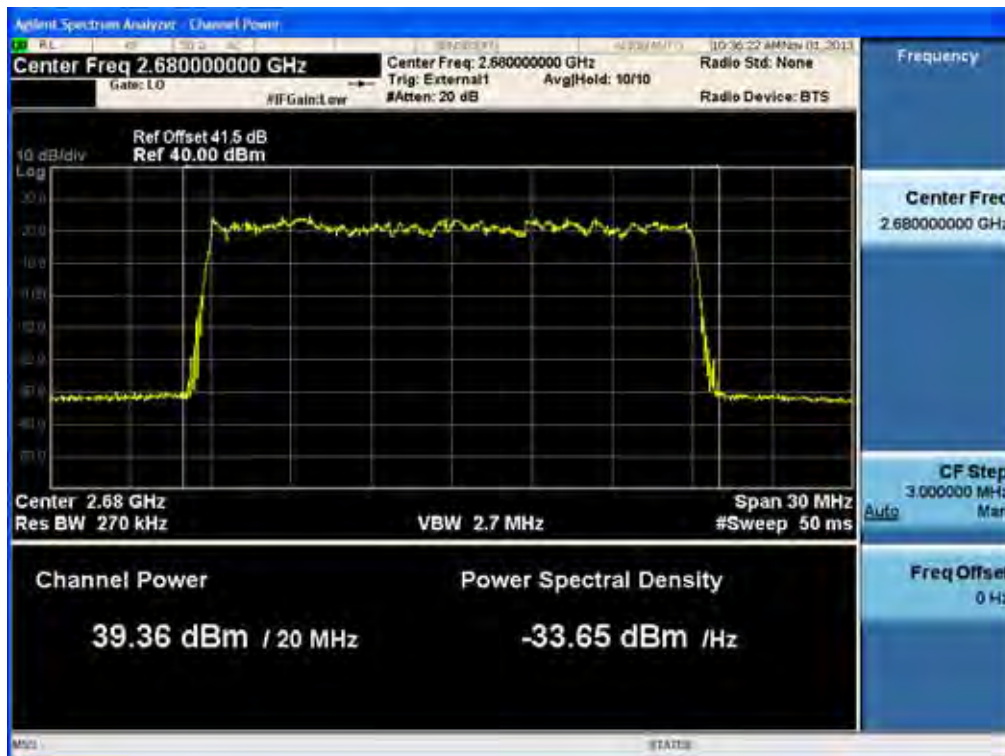


FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 38 of 473

(16QAM Middle Channel)

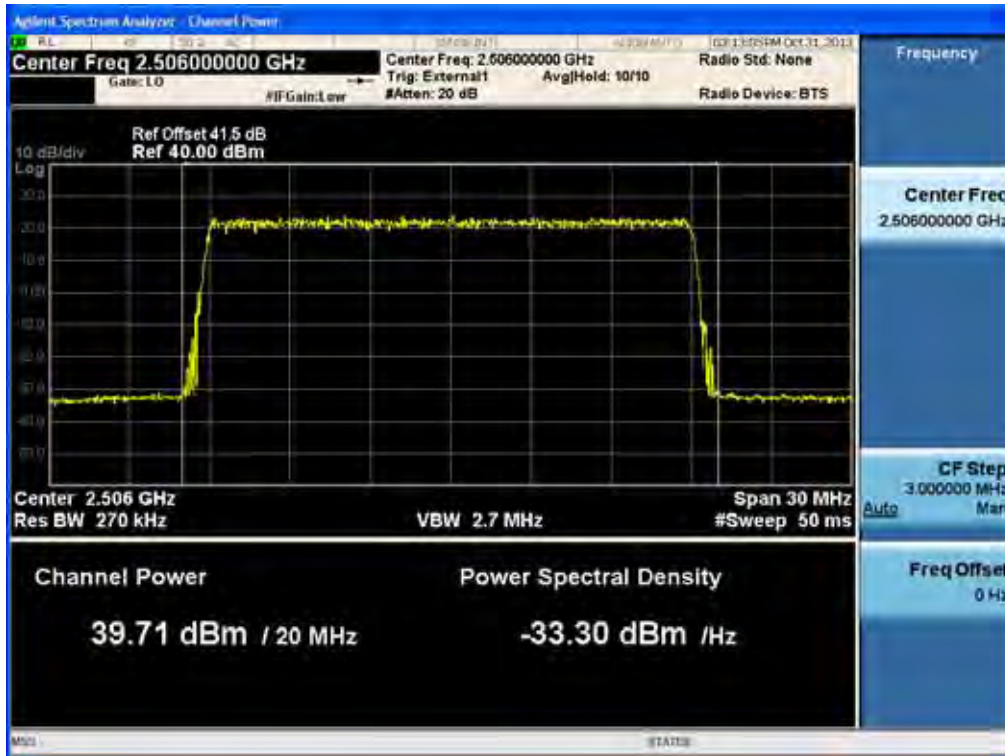


(16QAM High Channel)



FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 39 of 473

(64QAM Low Channel)

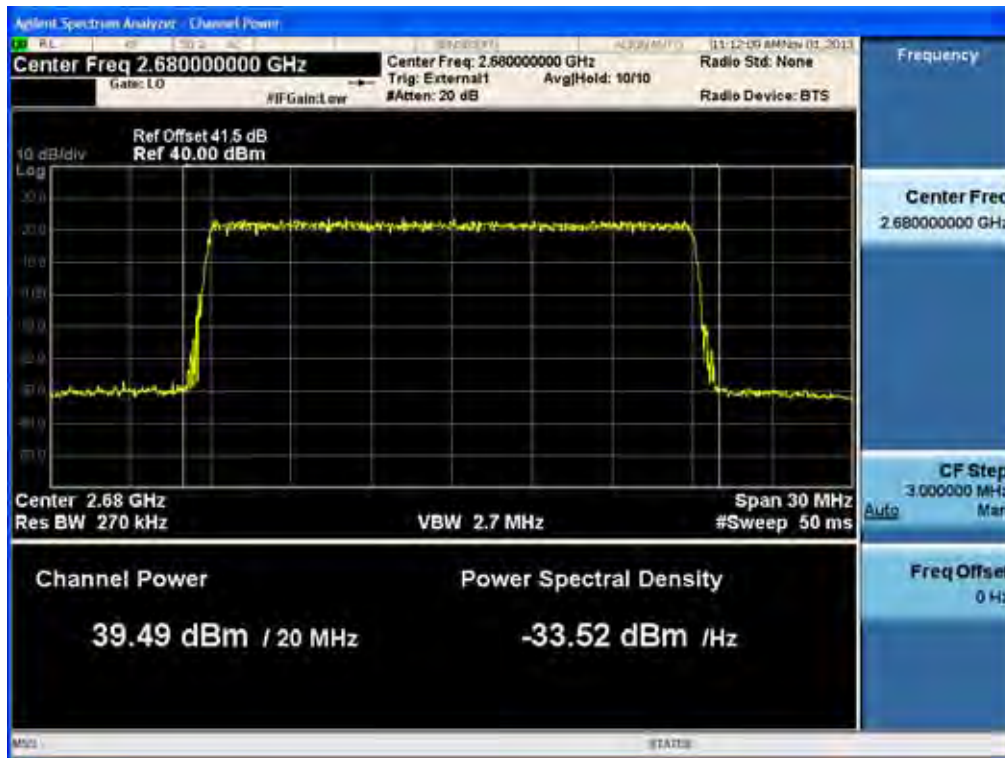


(64QAM Middle Channel)



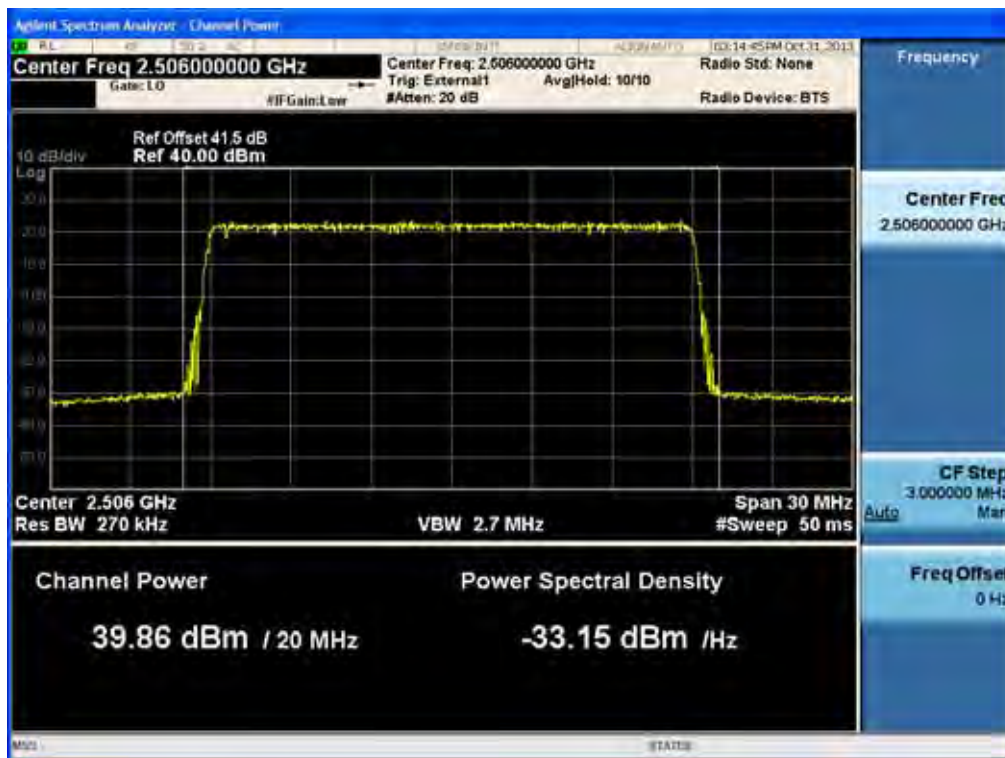
FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 40 of 473

(64QAM High Channel)



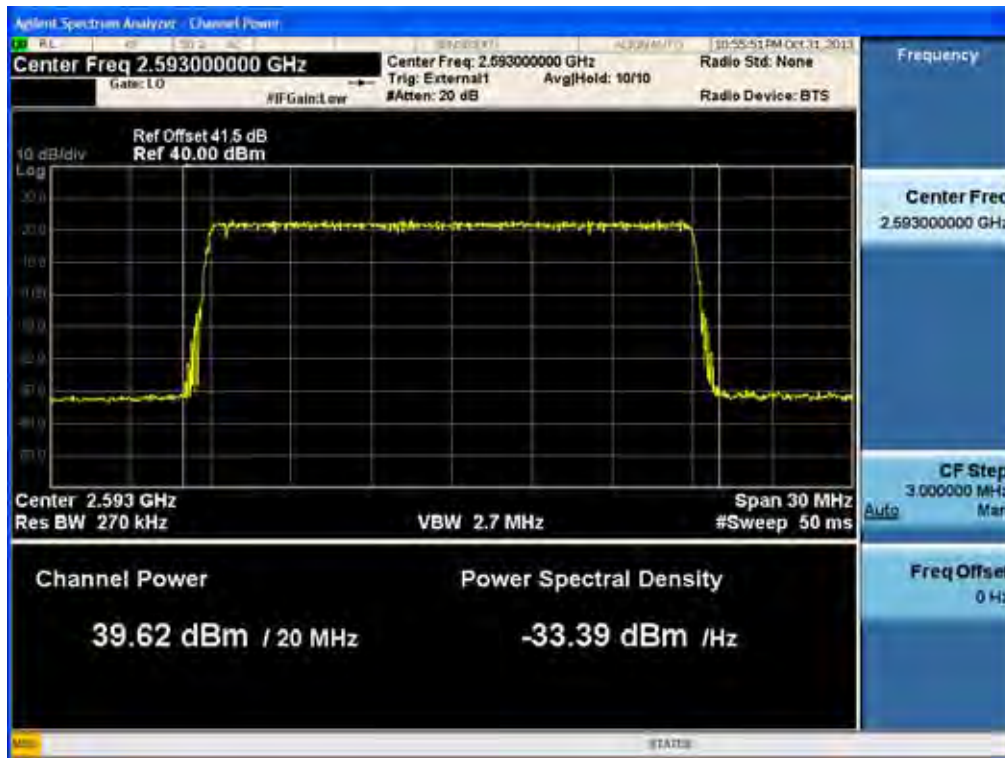
5.7.15. Plot Data for Output Port 2 (Conducted Output Power)

(QPSK Low Channel)

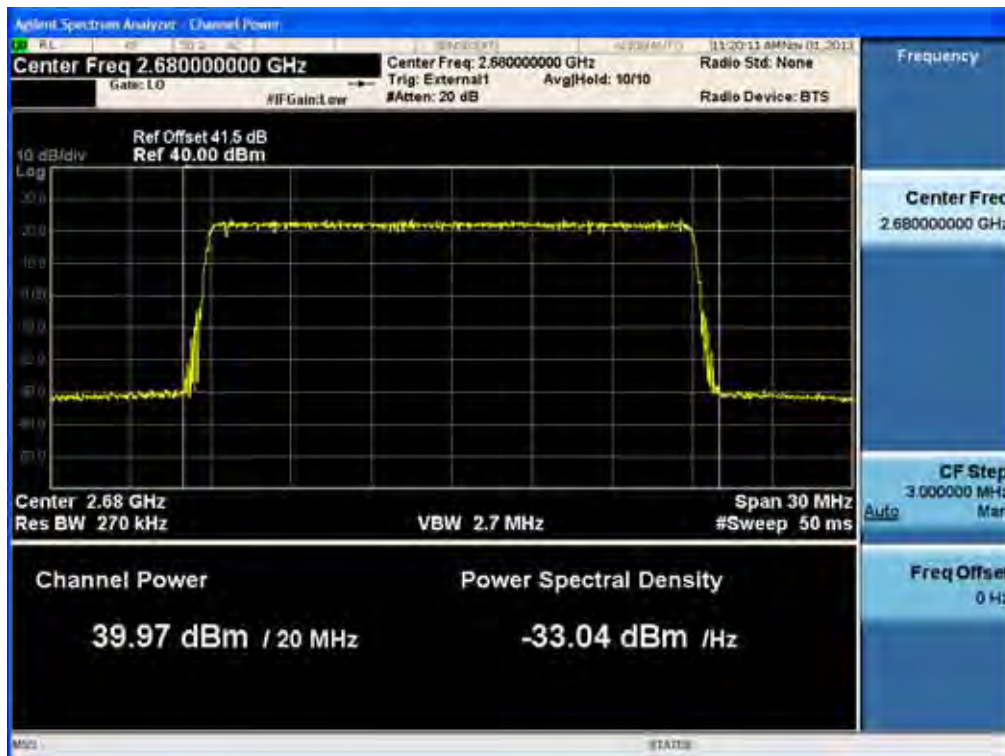


FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 41 of 473

(QPSK Middle Channel)

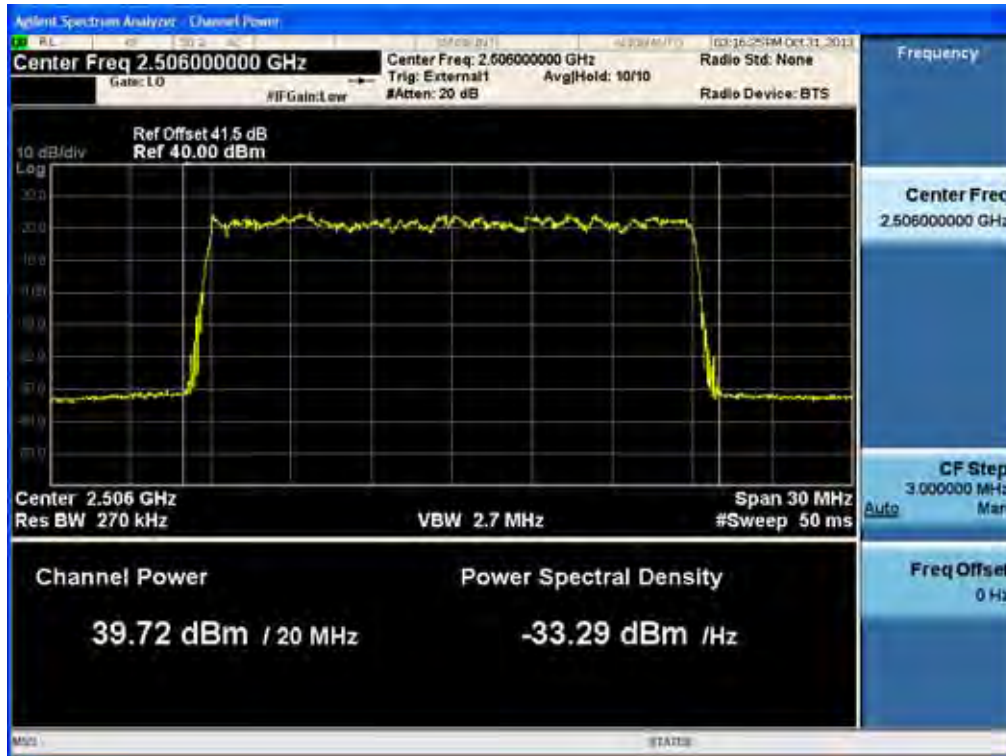


(QPSK High Channel)



FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 42 of 473

(16QAM Low Channel)

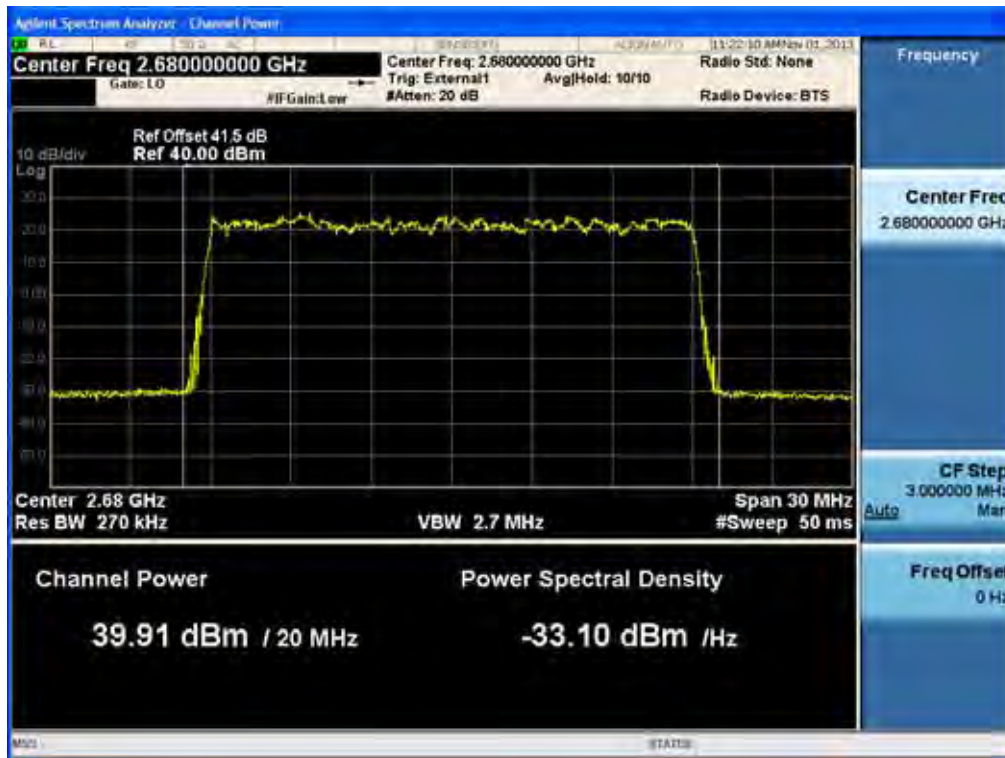


(16QAM Middle Channel)



FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 43 of 473

(16QAM High Channel)

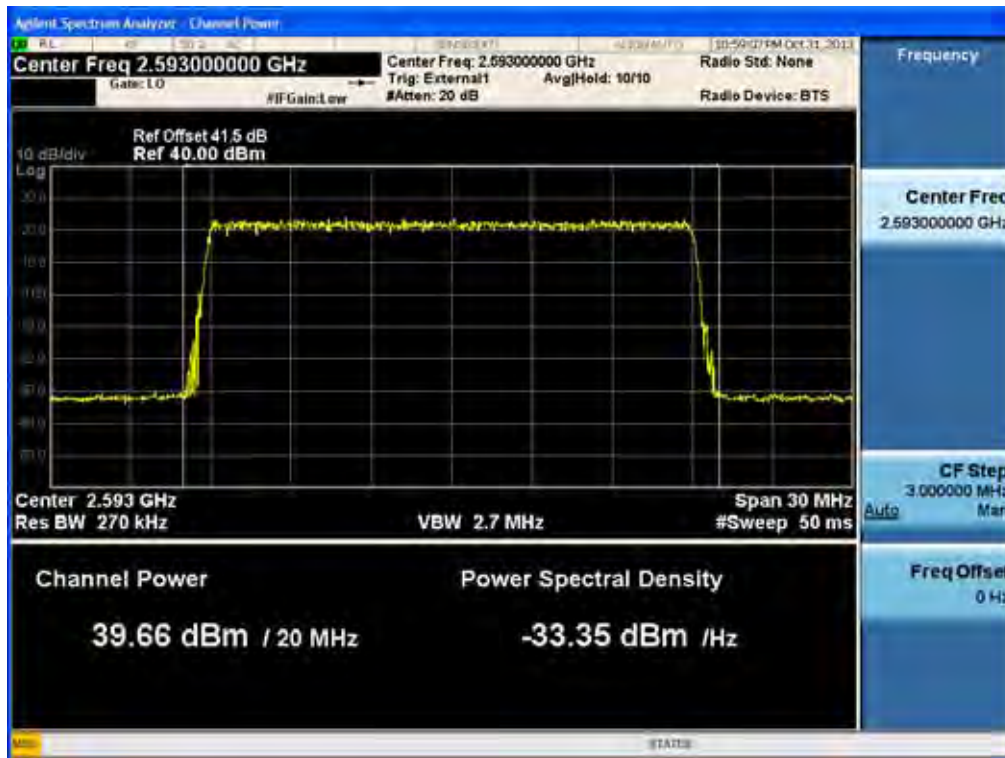


(64QAM Low Channel)

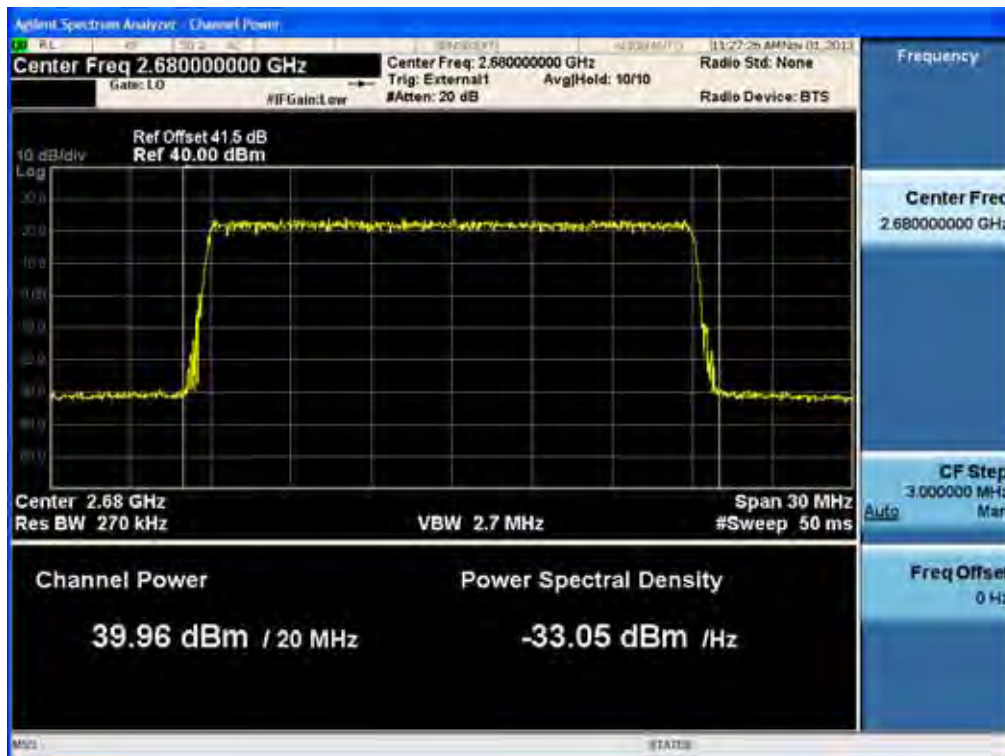


FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 44 of 473

(64QAM Middle Channel)



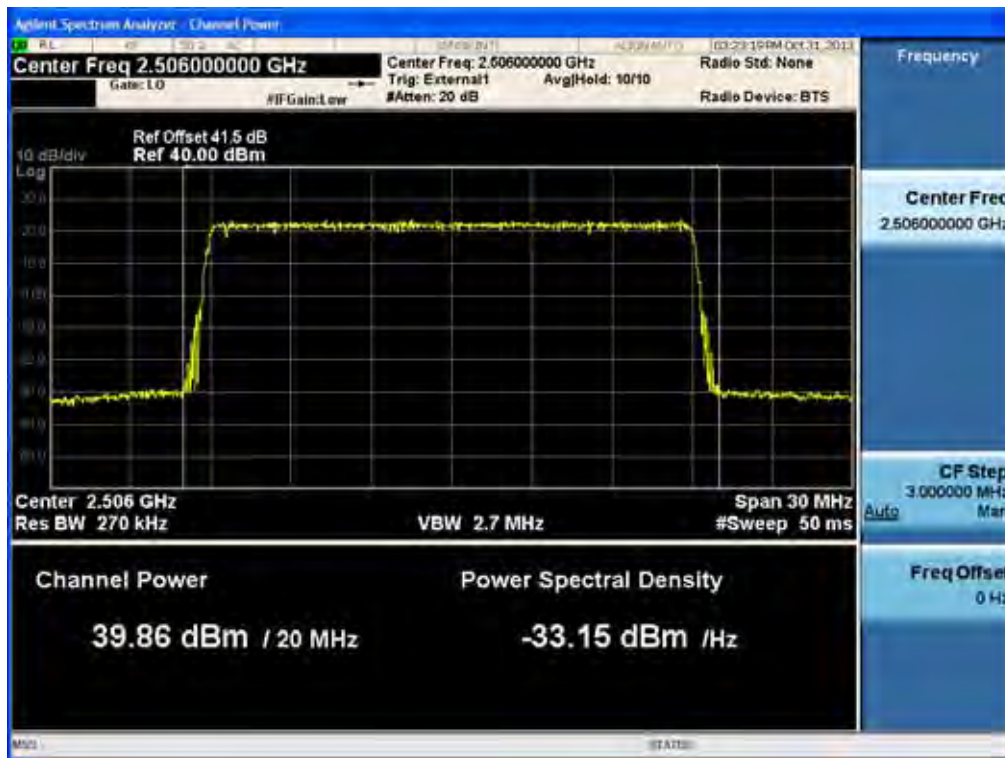
(64QAM High Channel)



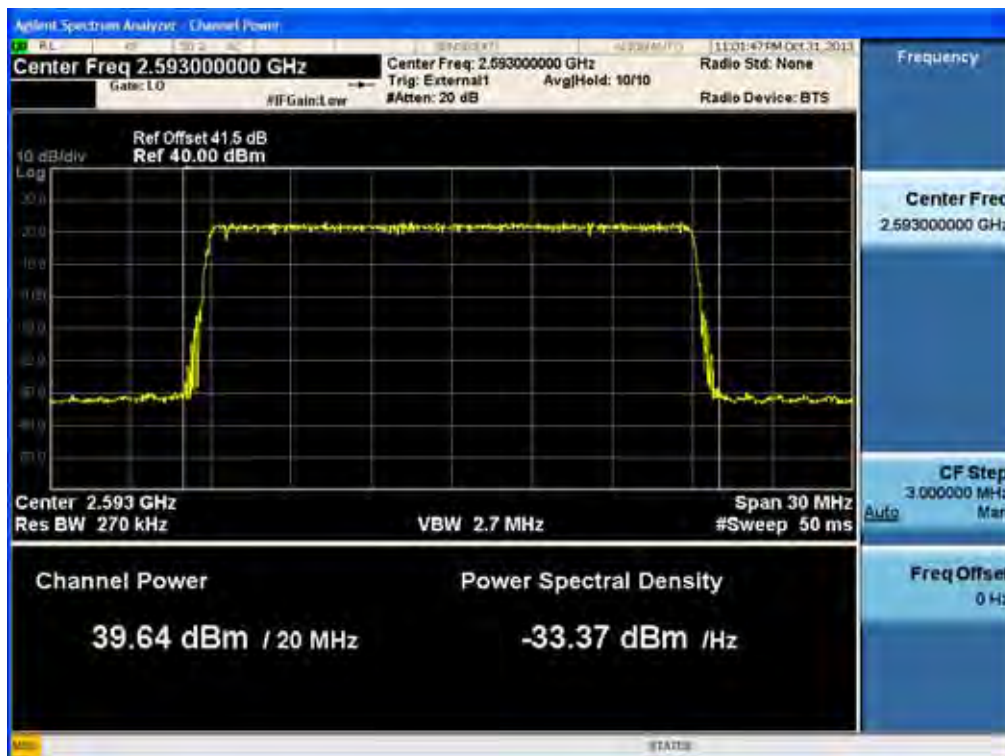
FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 45 of 473

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

(QPSK Low Channel)

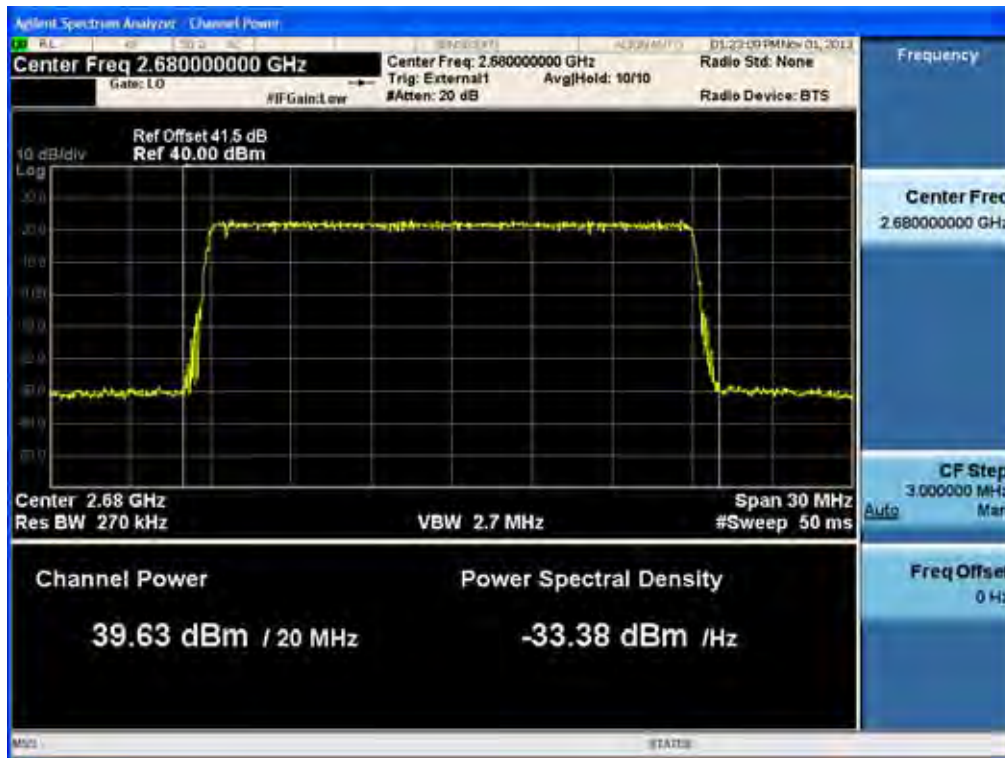


(QPSK Middle Channel)

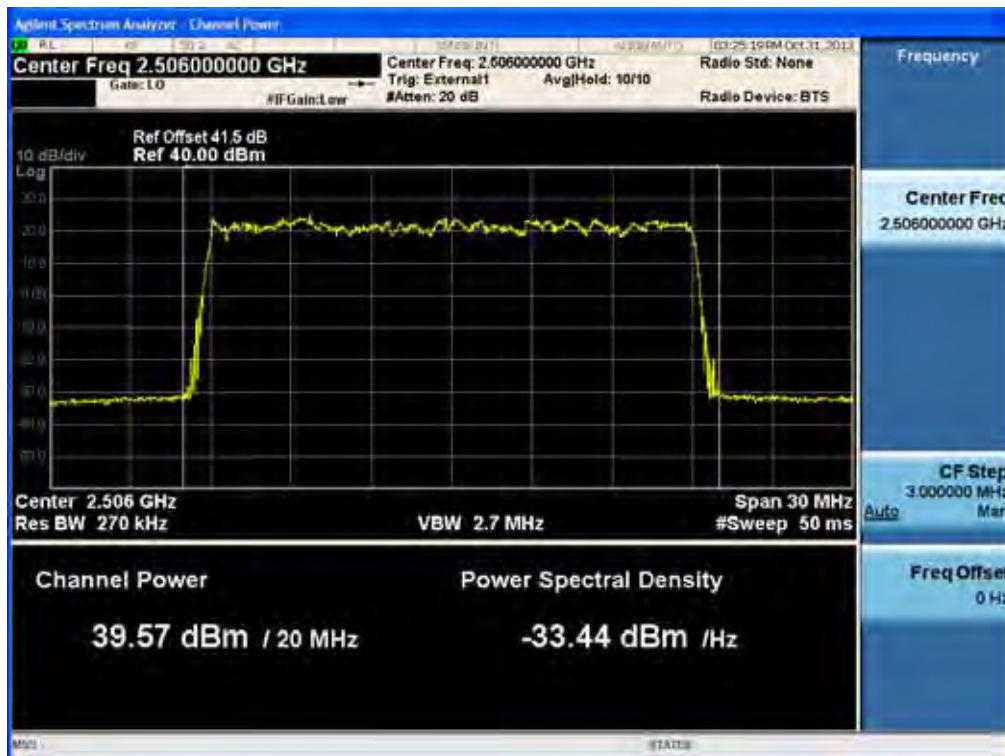


FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 46 of 473

(QPSK High Channel)

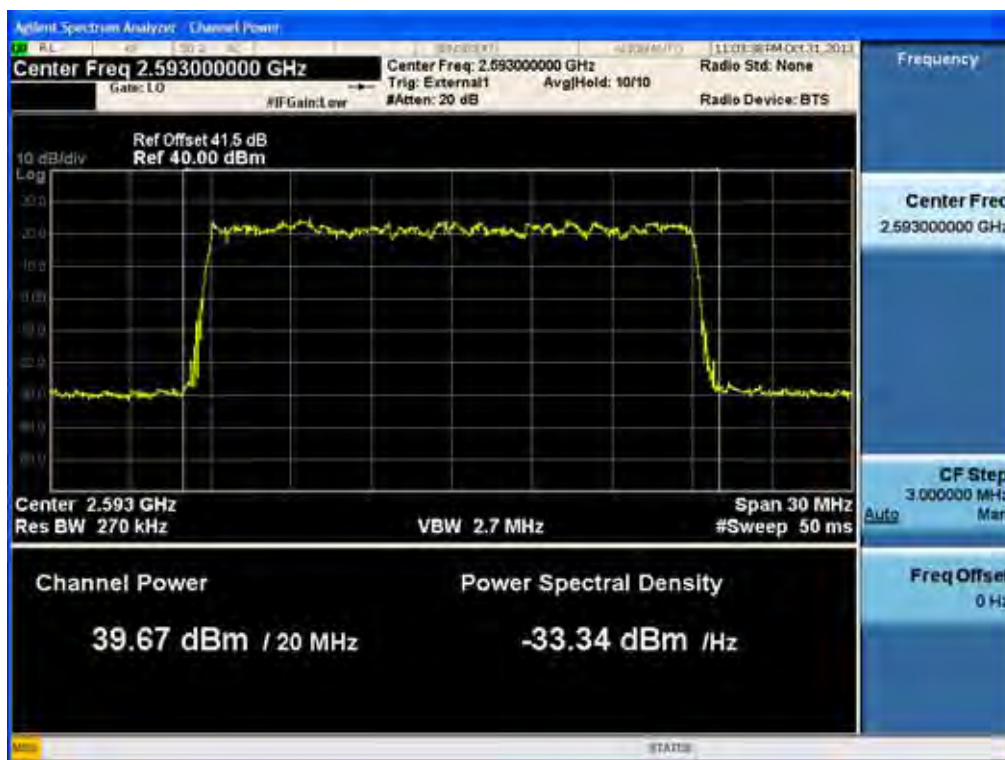


(16QAM Low Channel)



FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 47 of 473

(16QAM Middle Channel)

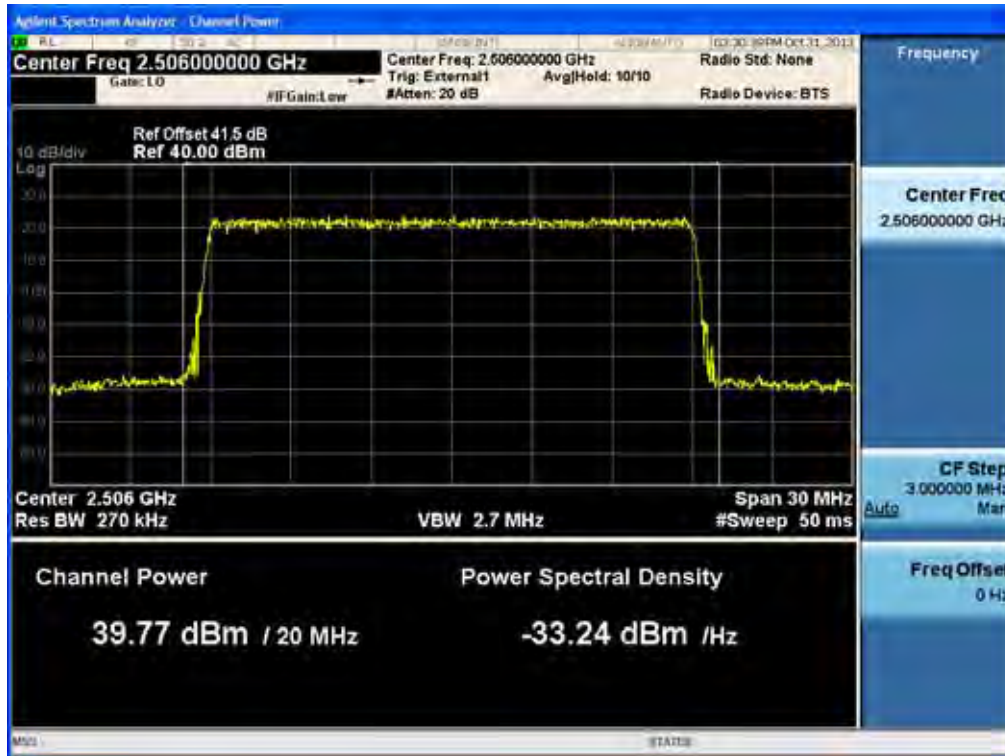


(16QAM High Channel)

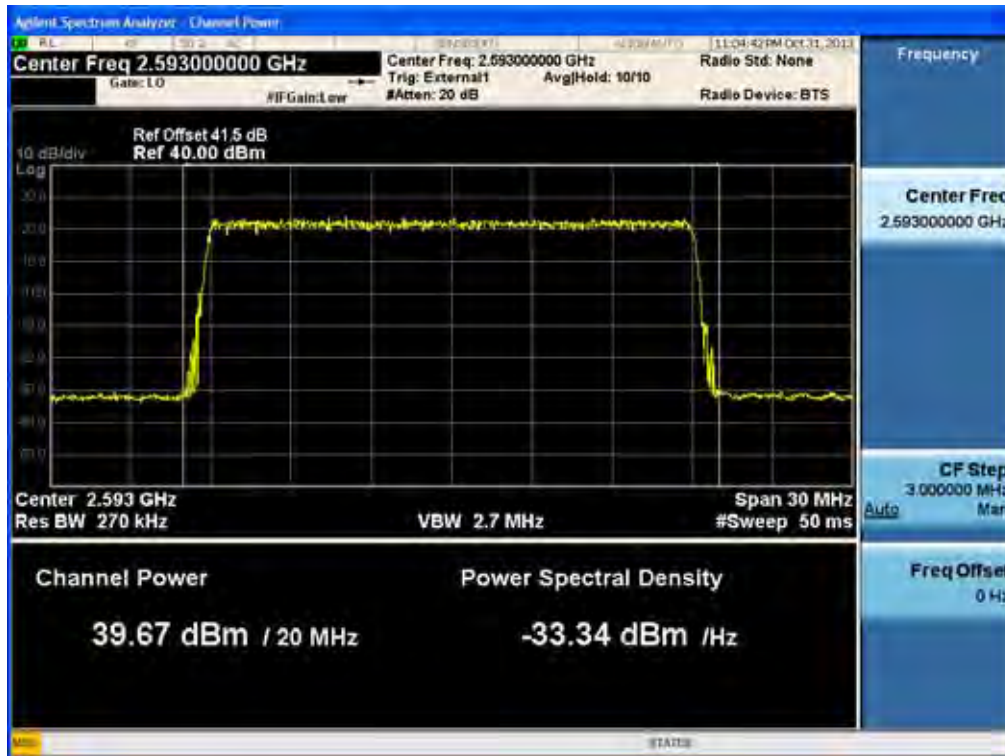


FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 48 of 473

(64QAM Low Channel)

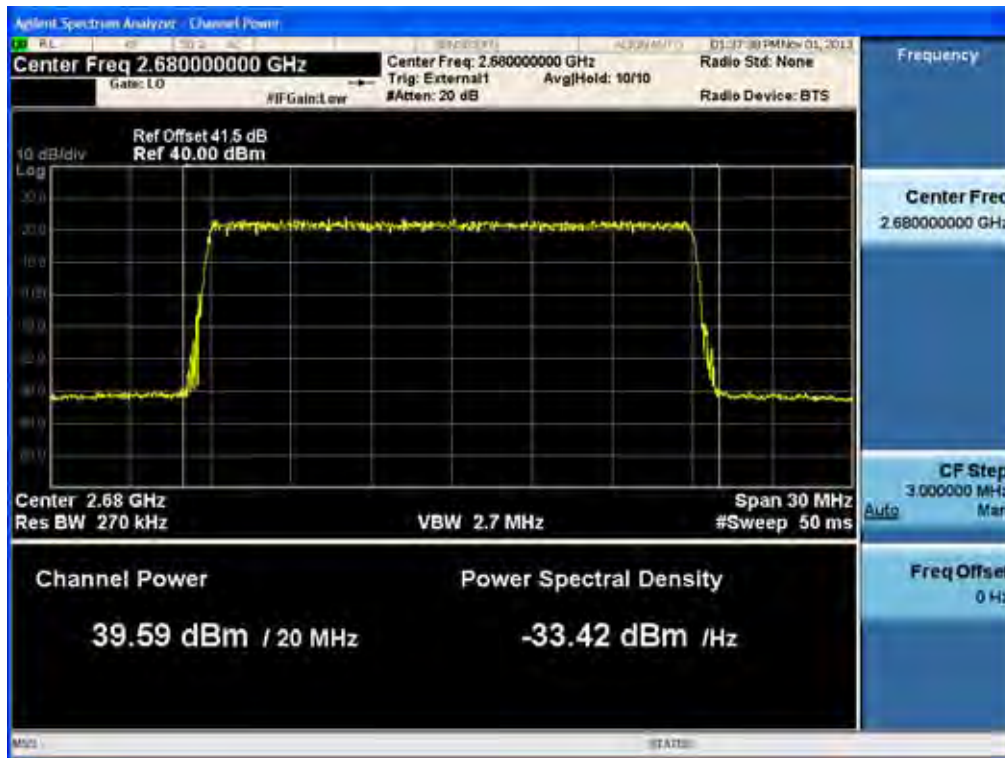


(64QAM Middle Channel)



FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 49 of 473

(64QAM High Channel)



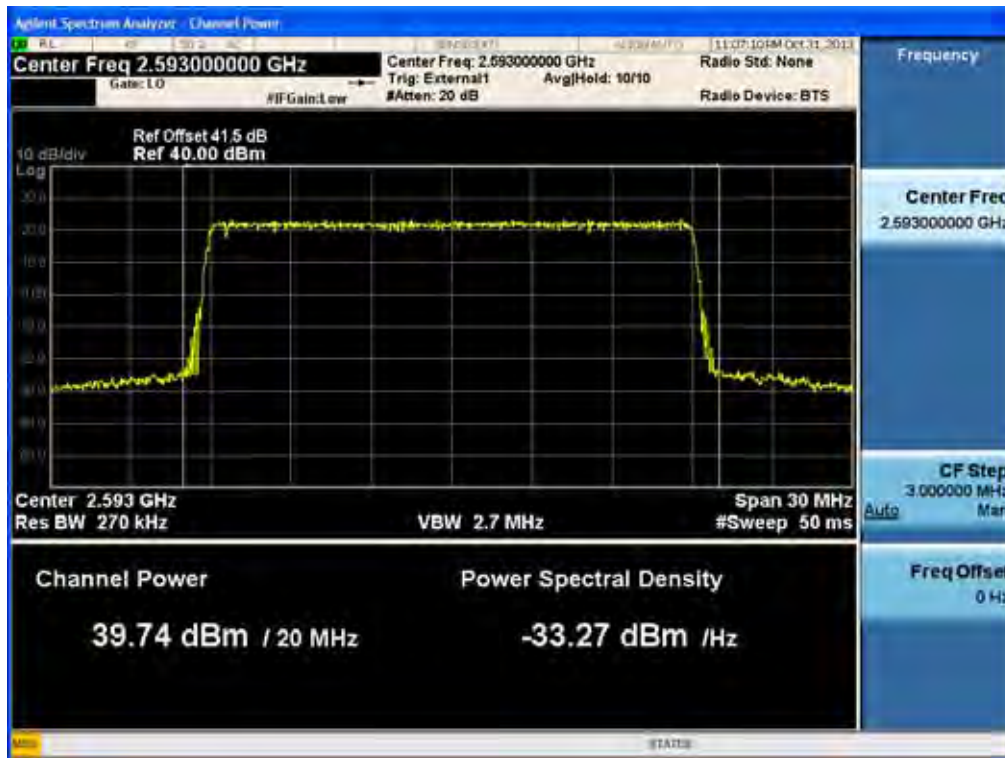
5.7.17. Plot Data for Output Port 4 (Conducted Output Power)

(QPSK Low Channel)

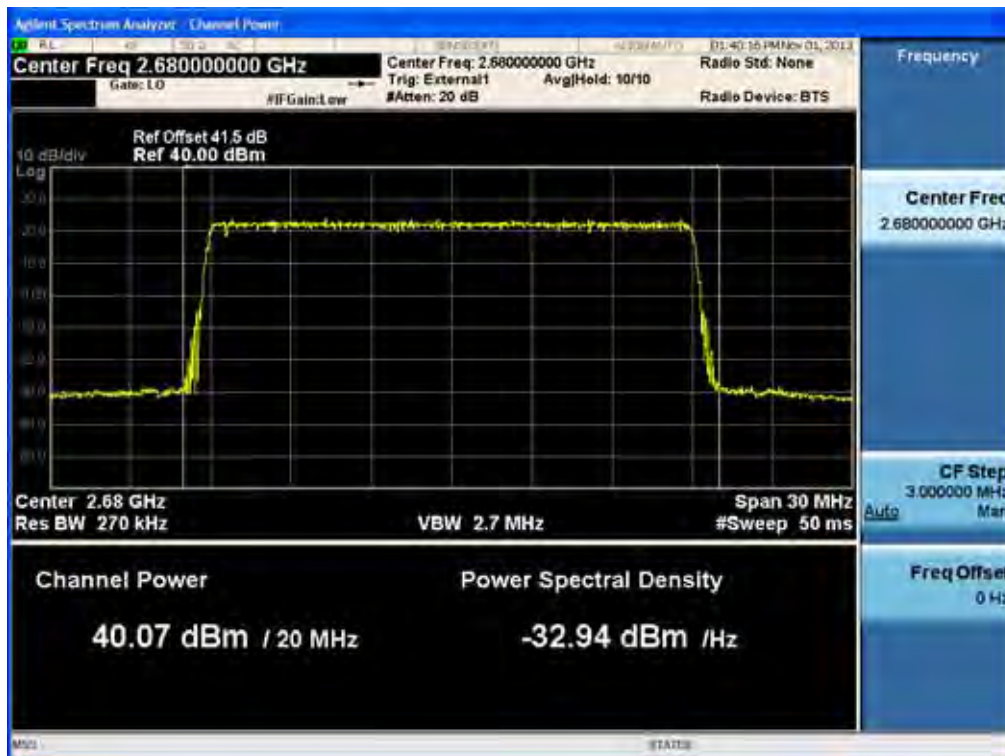


FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 50 of 473

(QPSK Middle Channel)



(QPSK High Channel)



FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 51 of 473

(16QAM Low Channel)



(16QAM Middle Channel)

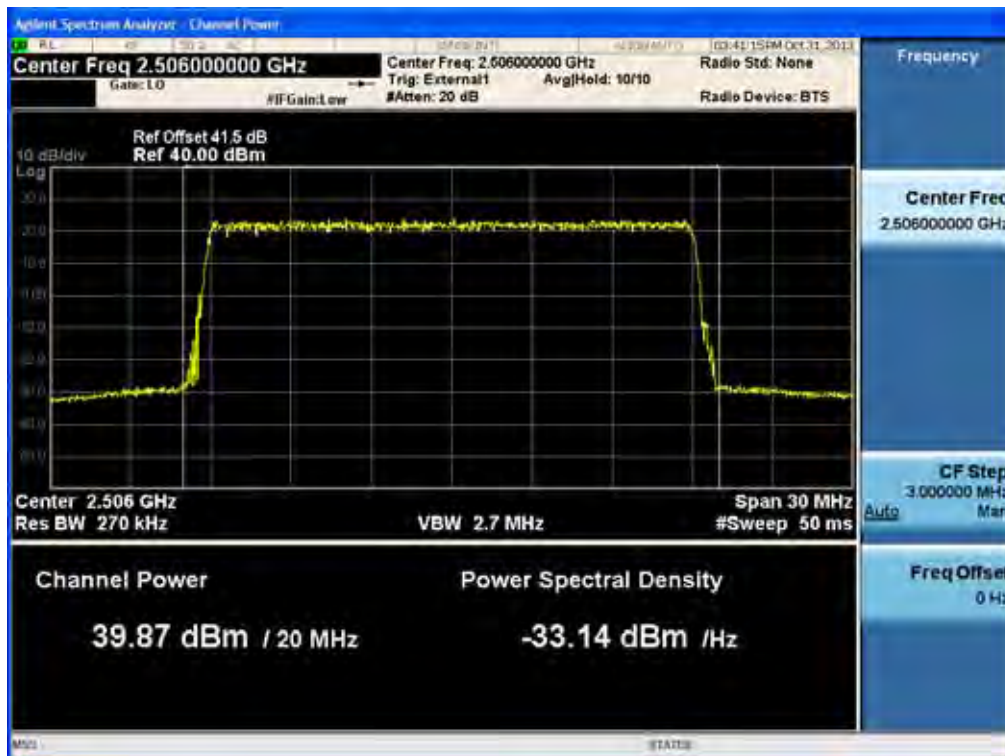


FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 52 of 473

(16QAM High Channel)

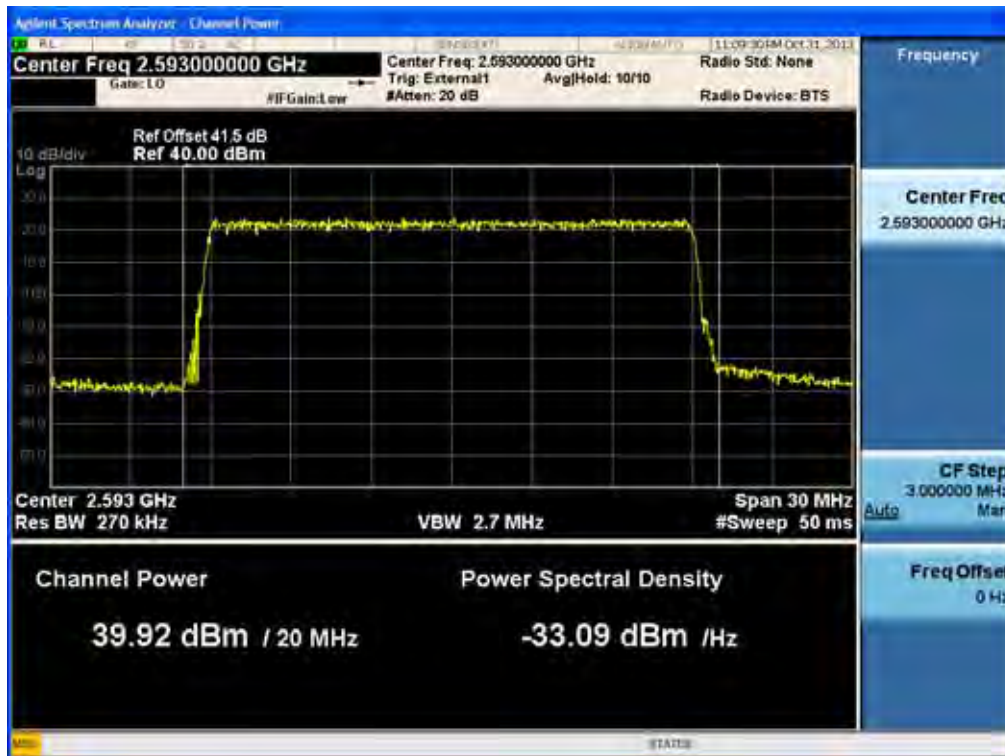


(64QAM Low Channel)

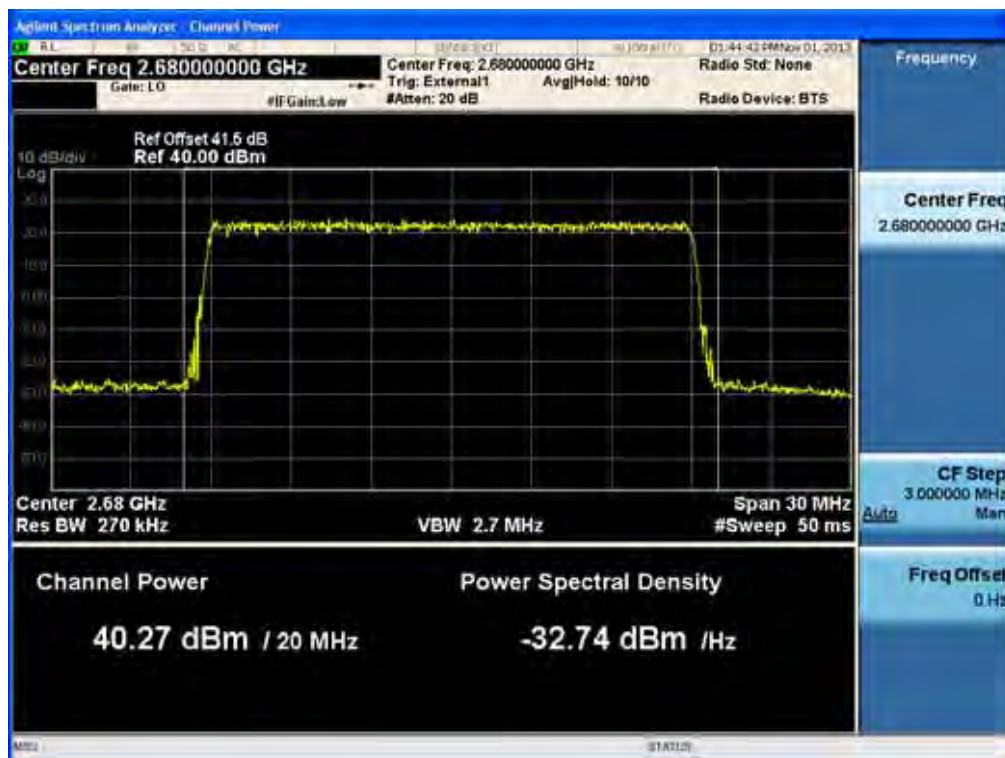


FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 53 of 473

(64QAM Middle Channel)



(64QAM High Channel)



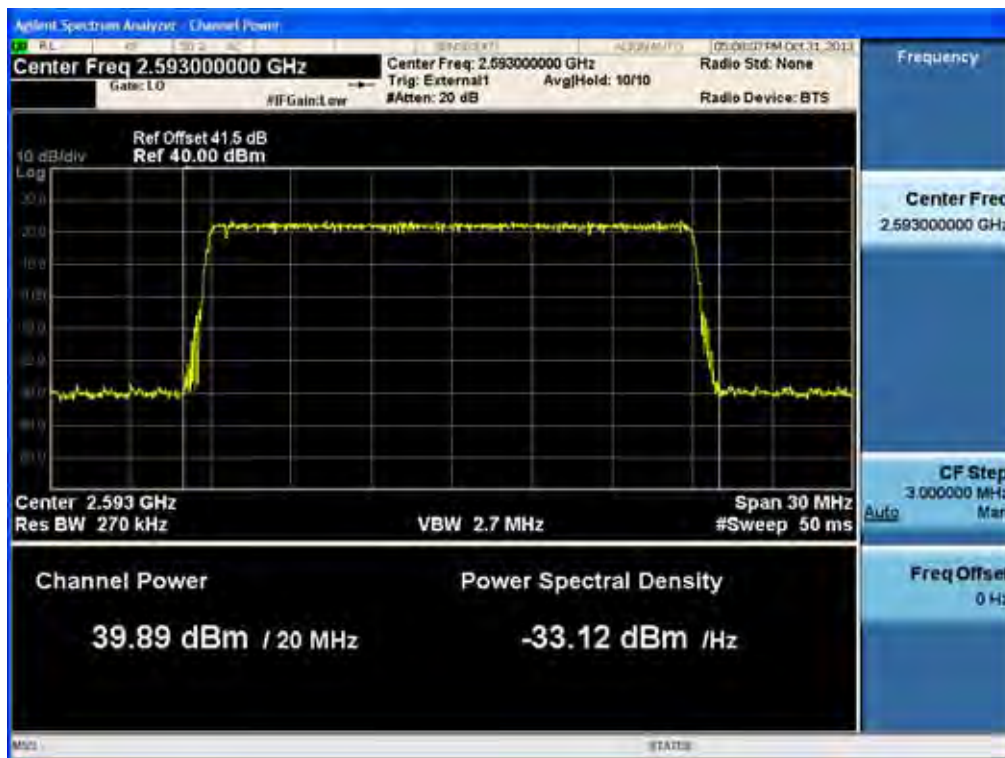
FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 54 of 473

5.7.18. Plot Data for Output Port 5 (Conducted Output Power)

(QPSK Low Channel)

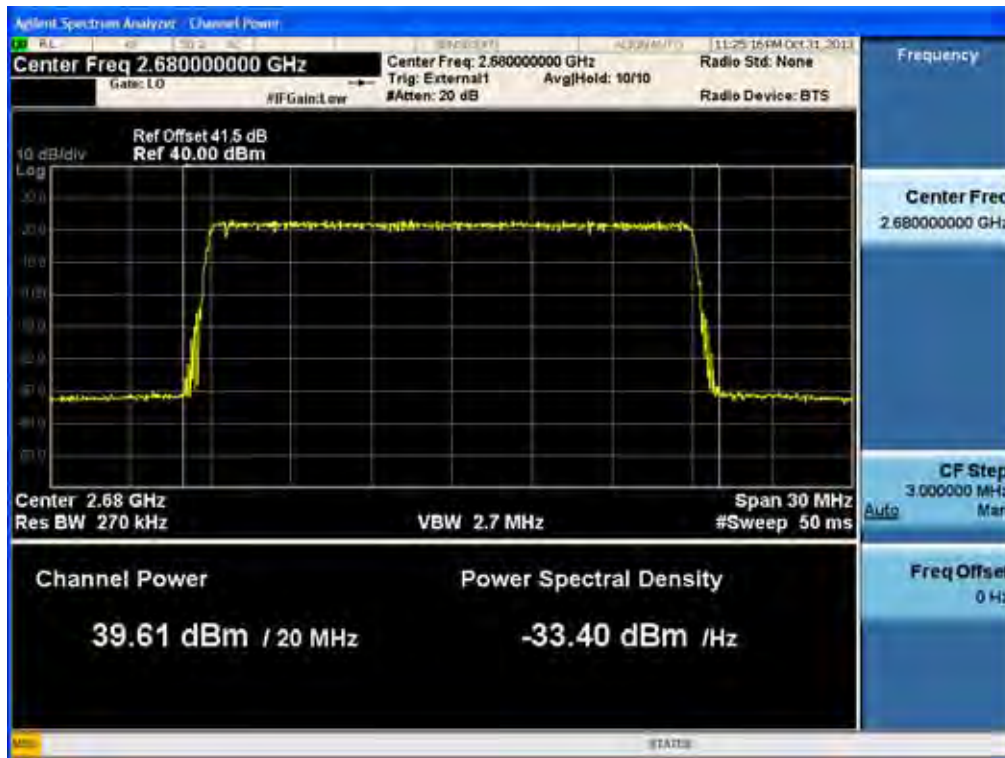


(QPSK Middle Channel)



FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 55 of 473

(QPSK High Channel)

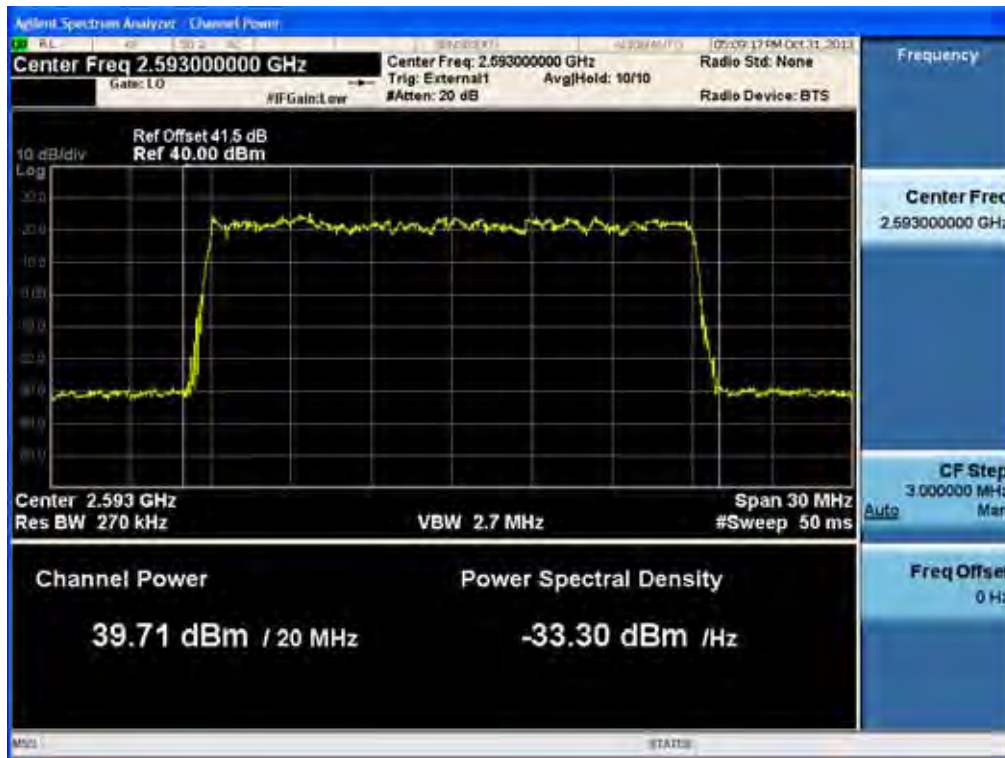


(16QAM Low Channel)

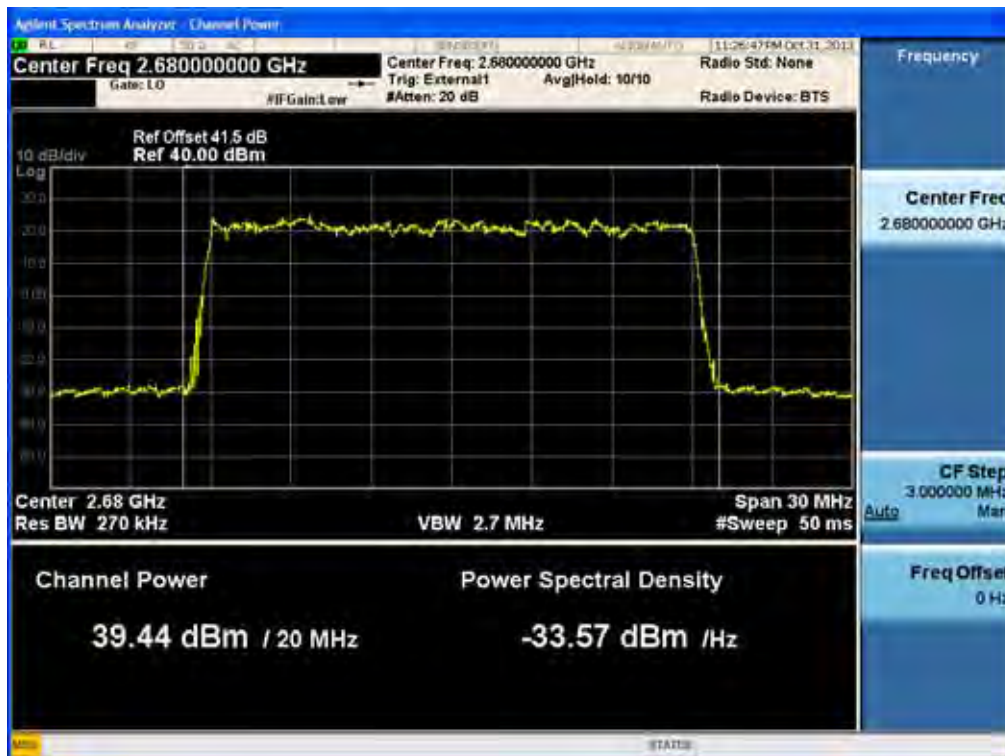


FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 56 of 473

(16QAM Middle Channel)



(16QAM High Channel)

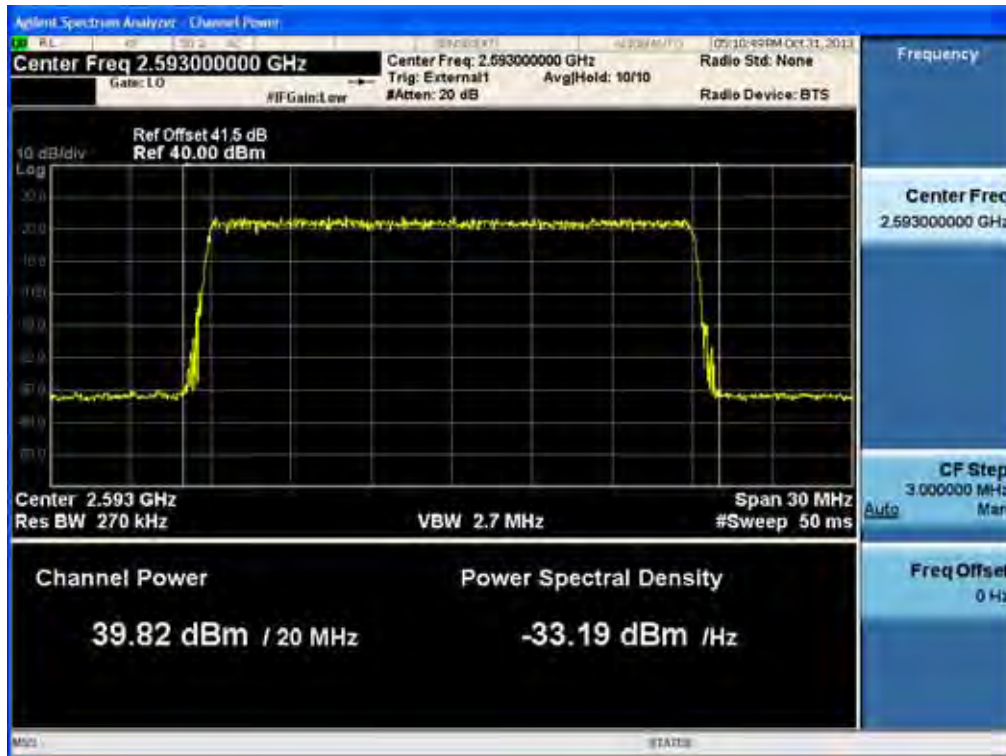


FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 57 of 473

(64QAM Low Channel)



(64QAM Middle Channel)



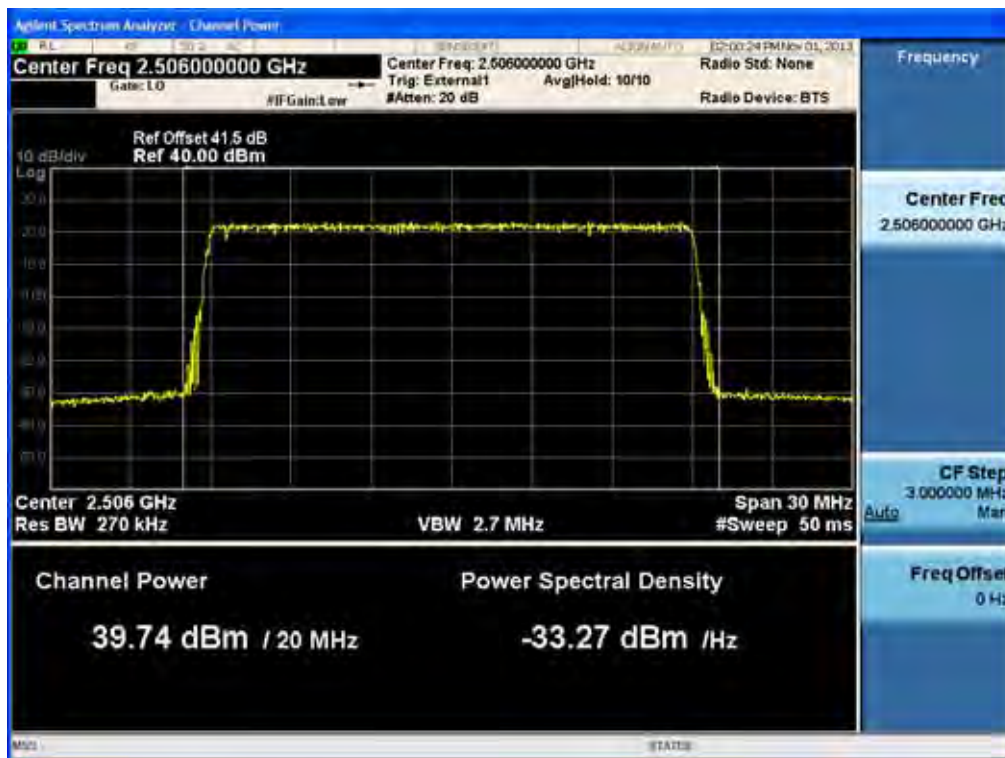
FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 58 of 473

(64QAM High Channel)



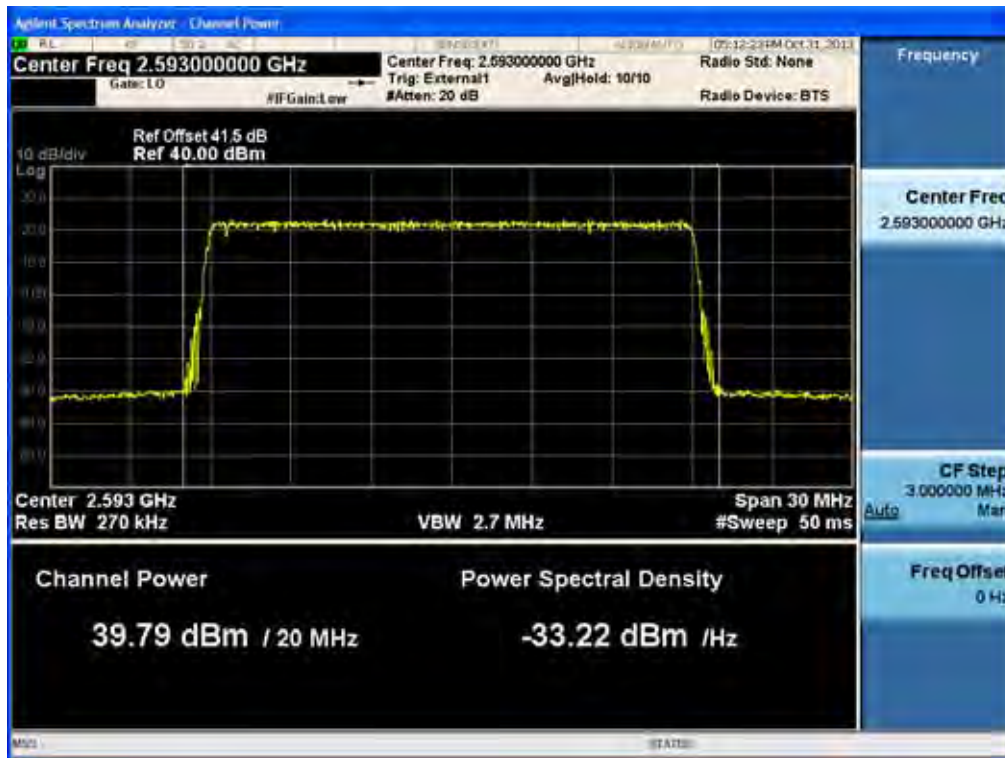
5.7.19. Plot Data for Output Port 6 (Conducted Output Power)

(QPSK Low Channel)



FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 59 of 473

(QPSK Middle Channel)

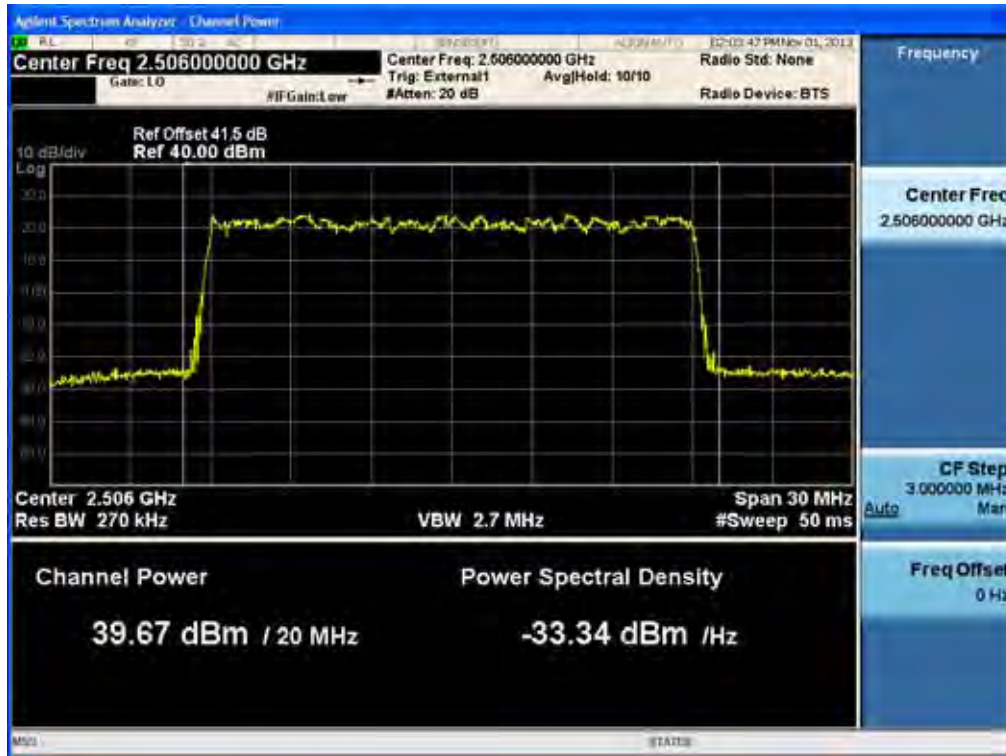


(QPSK High Channel)

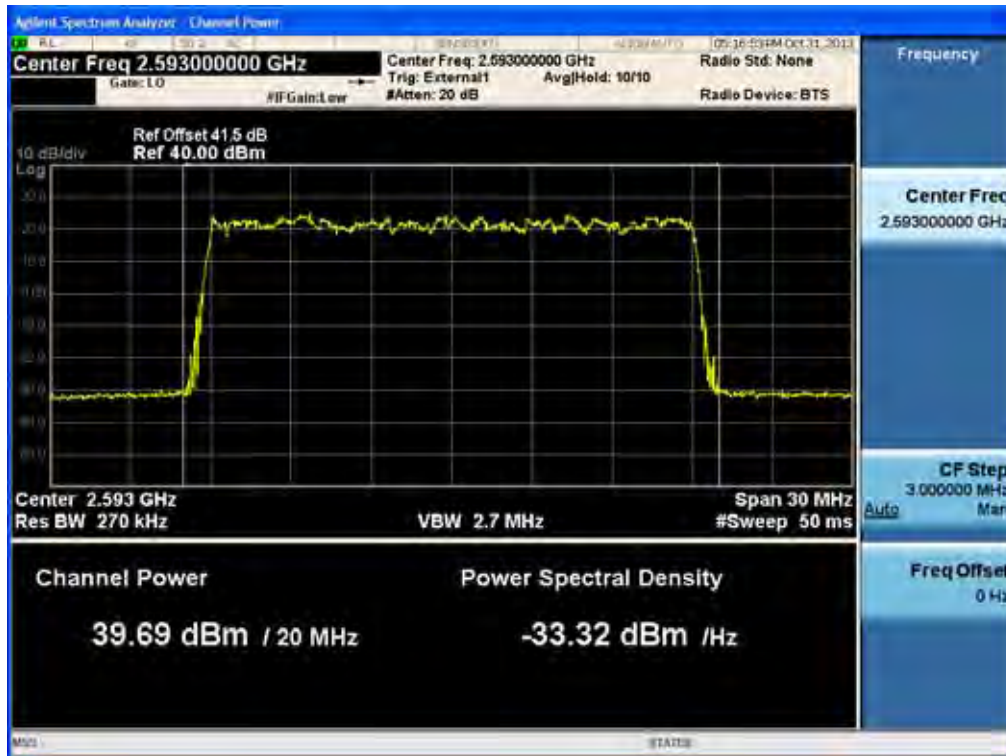


FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 60 of 473

(16QAM Low Channel)

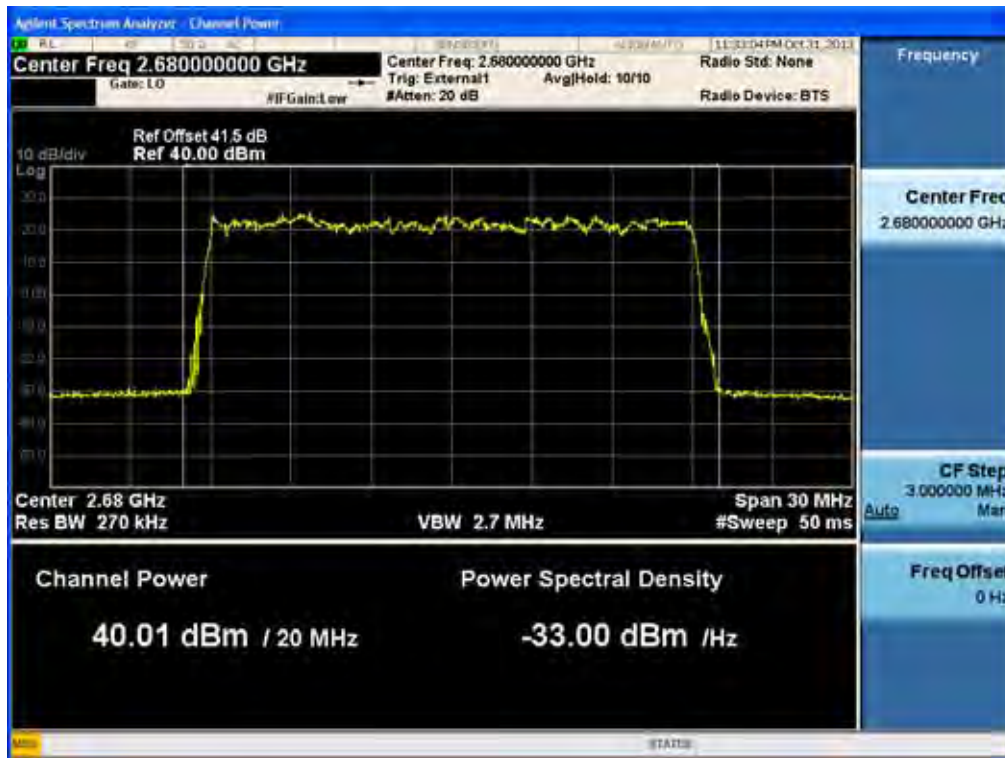


(16QAM Middle Channel)



FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 61 of 473

(16QAM High Channel)

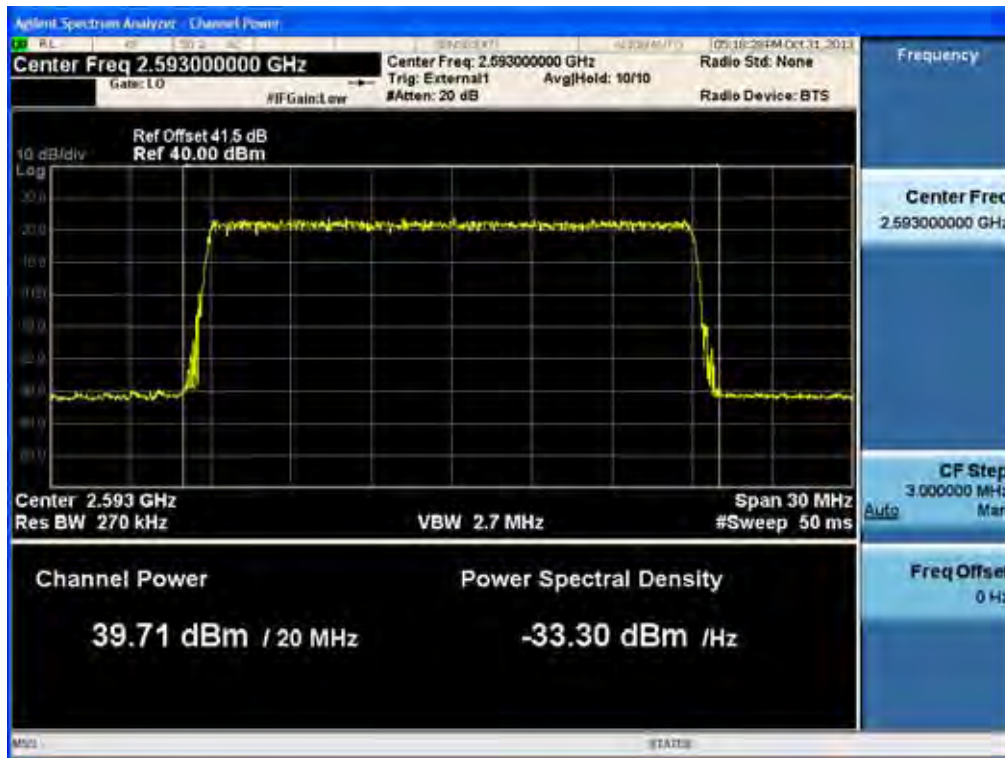


(64QAM Low Channel)



FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 62 of 473

(64QAM Middle Channel)



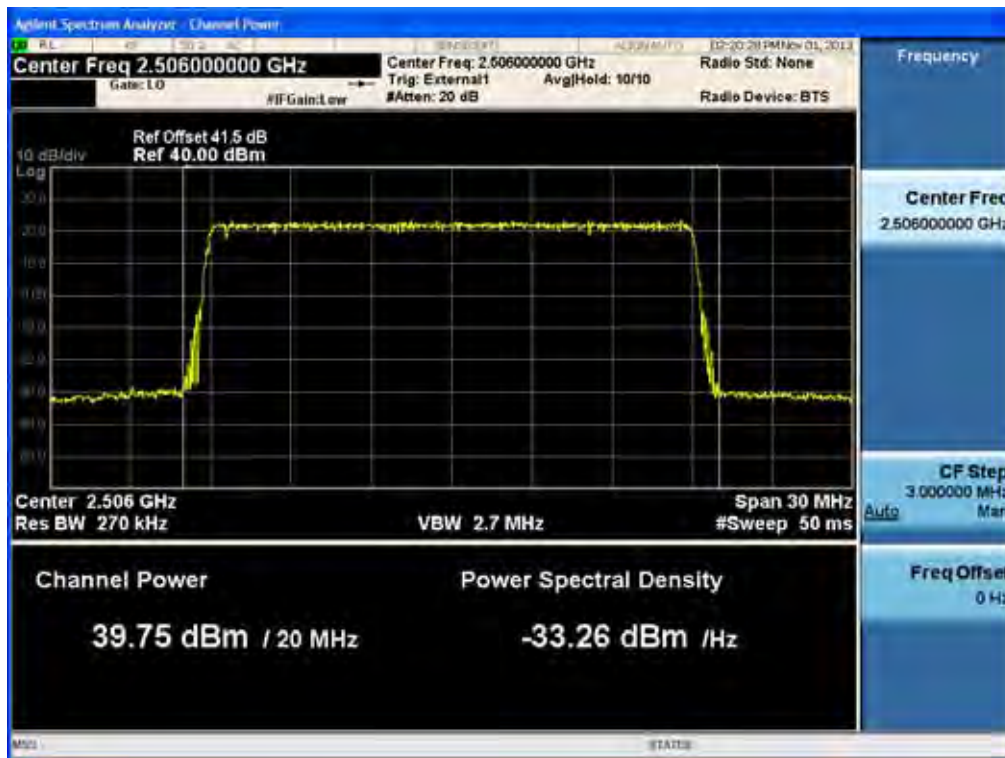
(64QAM High Channel)



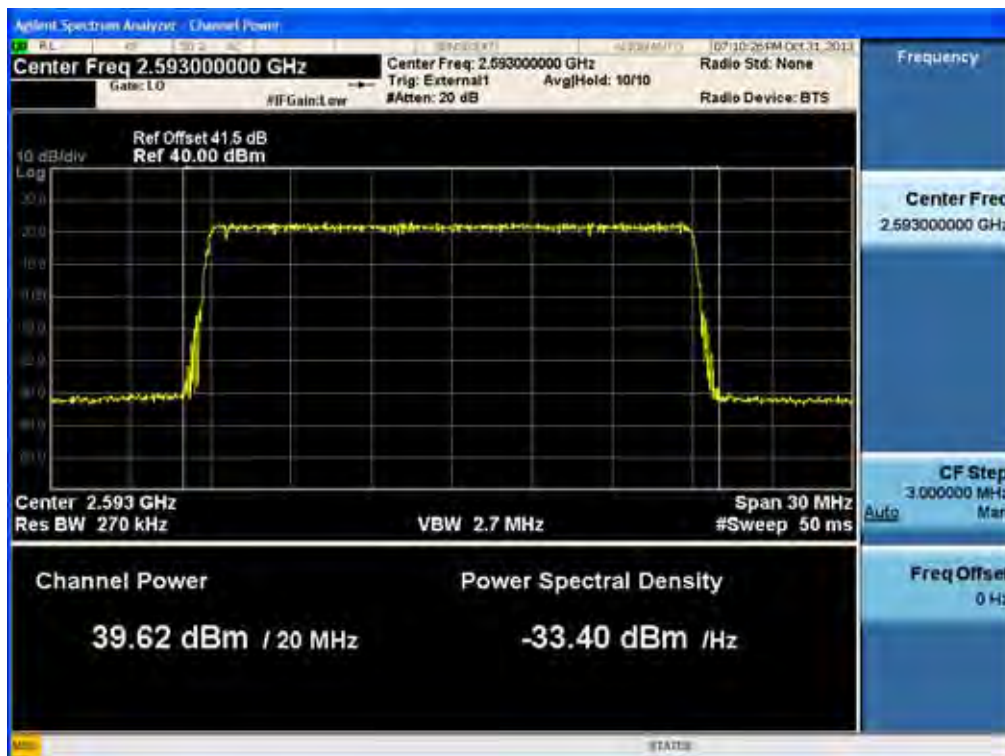
FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 63 of 473

5.7.20. Plot Data for Output Port 7 (Conducted Output Power)

(QPSK Low Channel)

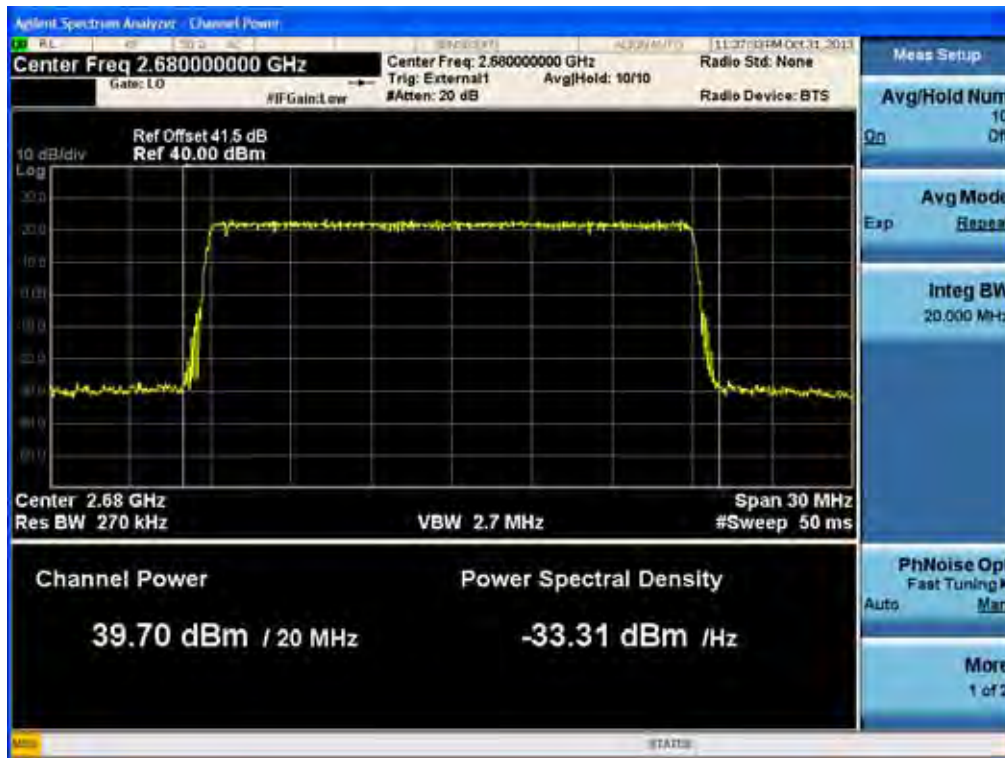


(QPSK Middle Channel)



FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 64 of 473

(QPSK High Channel)

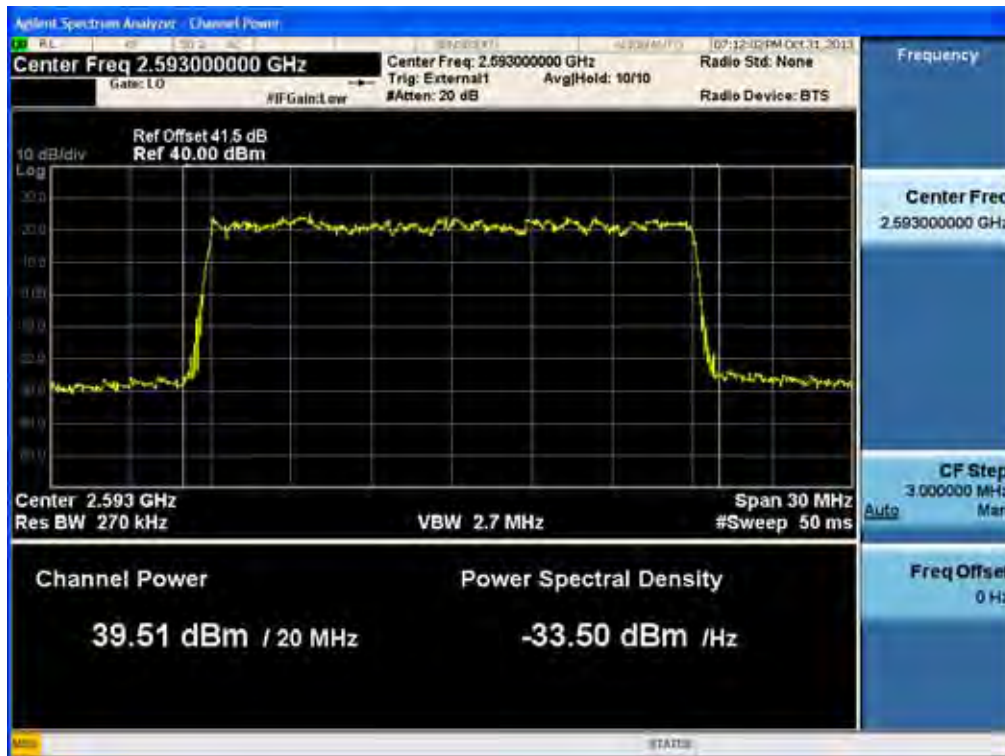


(16QAM Low Channel)

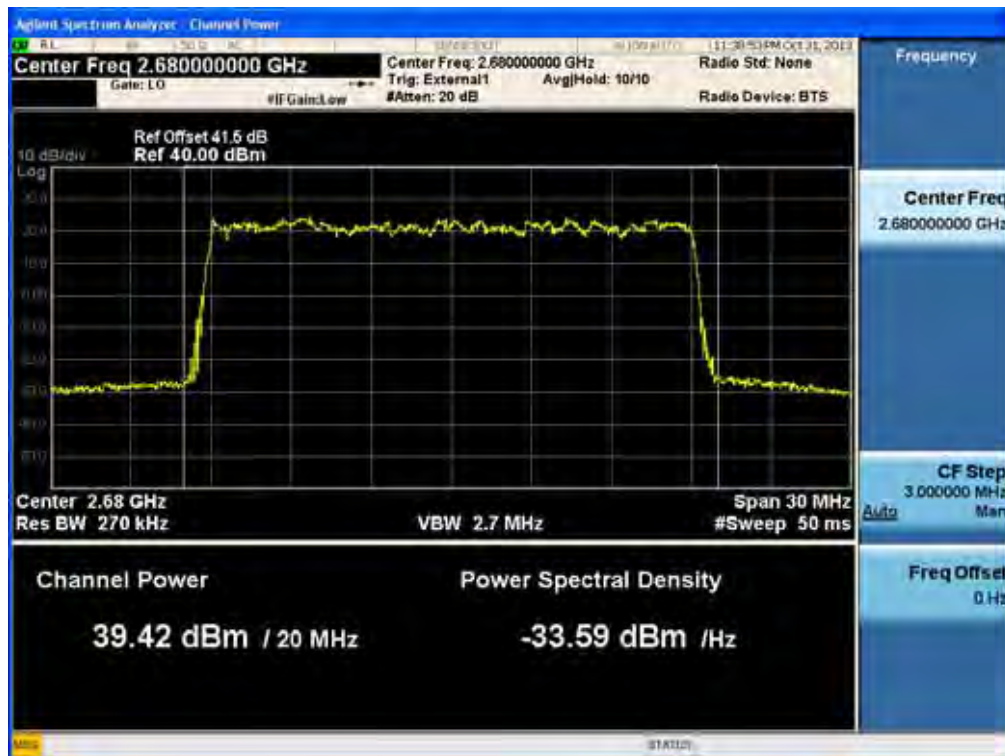


FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 65 of 473

(16QAM Middle Channel)

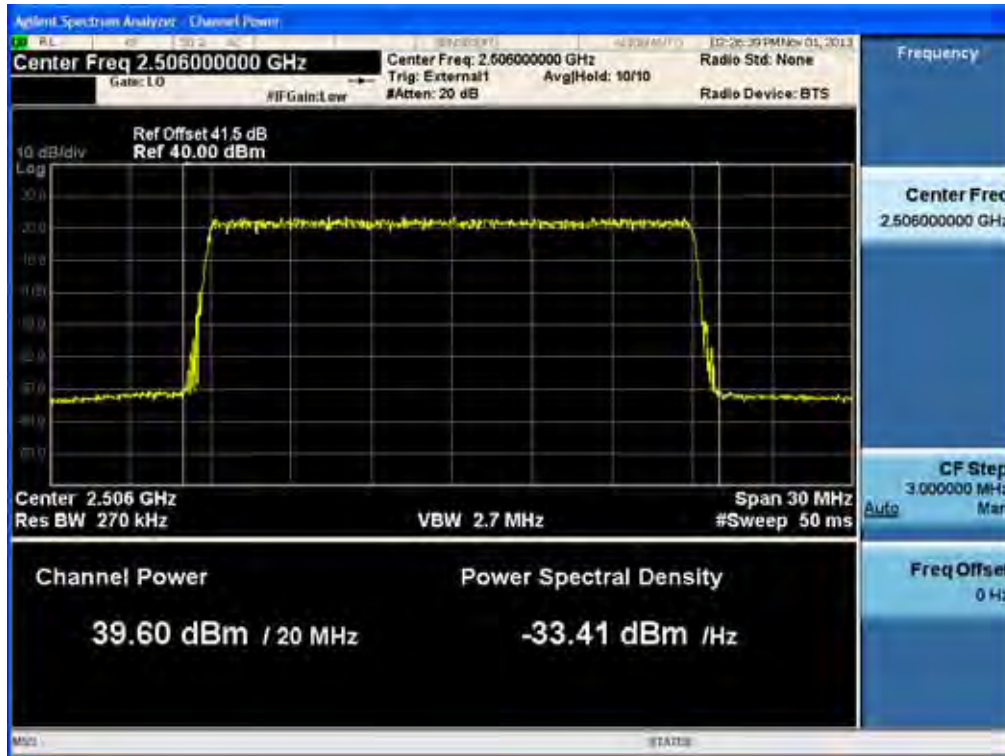


(16QAM High Channel)



FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 66 of 473

(64QAM Low Channel)



(64QAM Middle Channel)



FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 67 of 473

(64QAM High Channel)



5.7.21. Plot Data for Output Port 8 (Conducted Output Power)

(QPSK Low Channel)

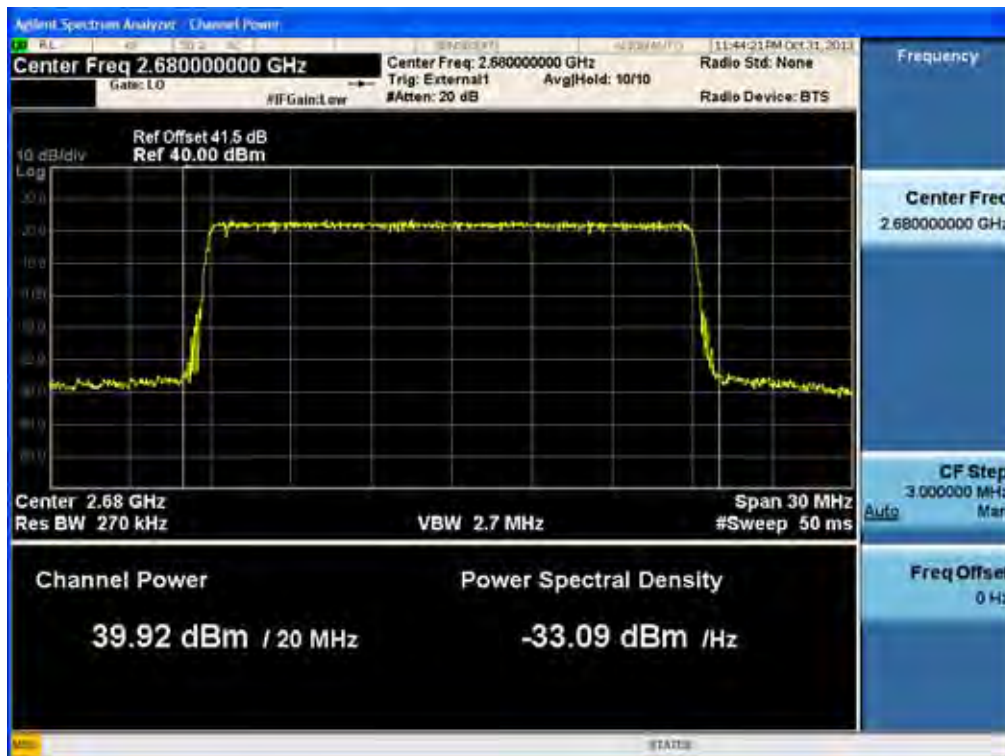


FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 68 of 473

(QPSK Middle Channel)

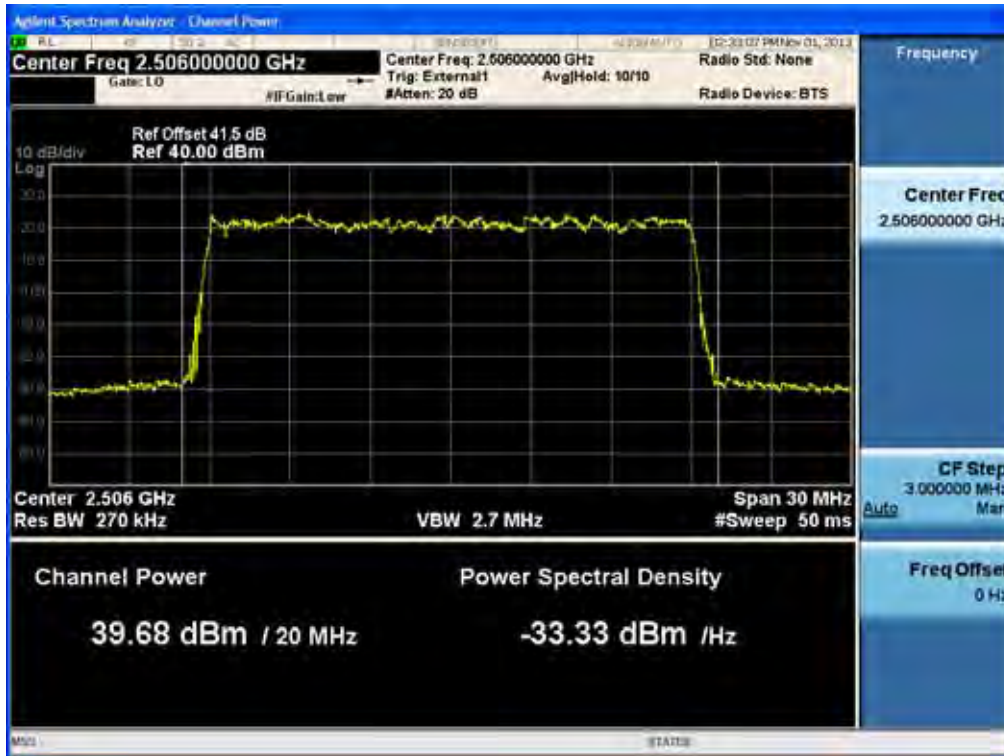


(QPSK High Channel)

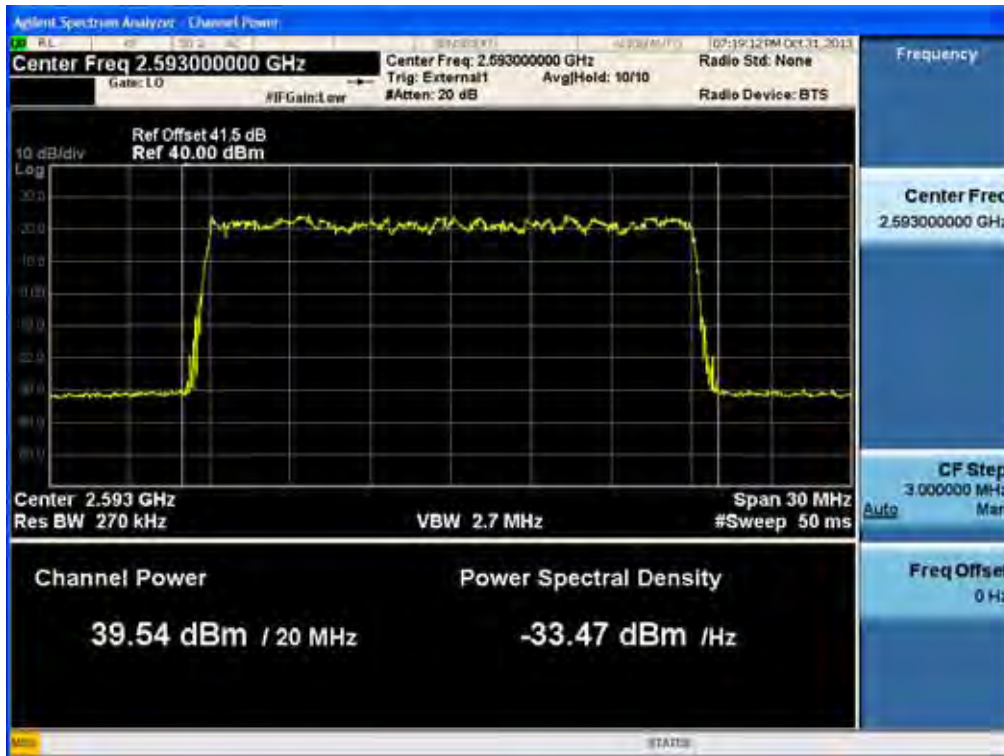


FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 69 of 473

(16QAM Low Channel)

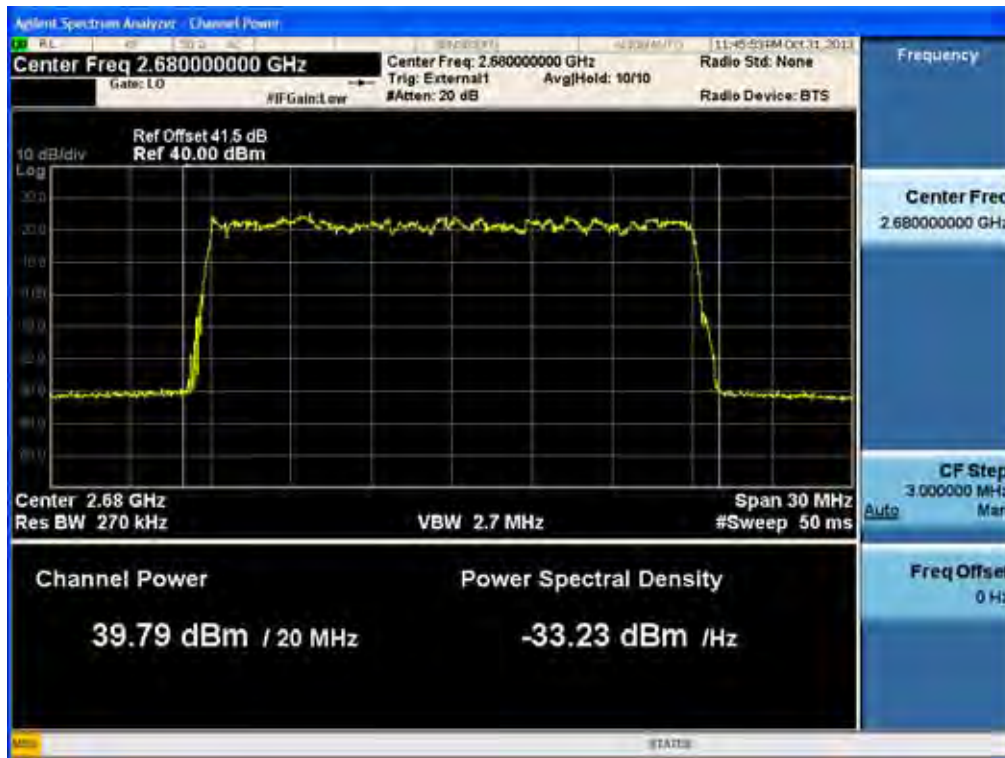


(16QAM Middle Channel)

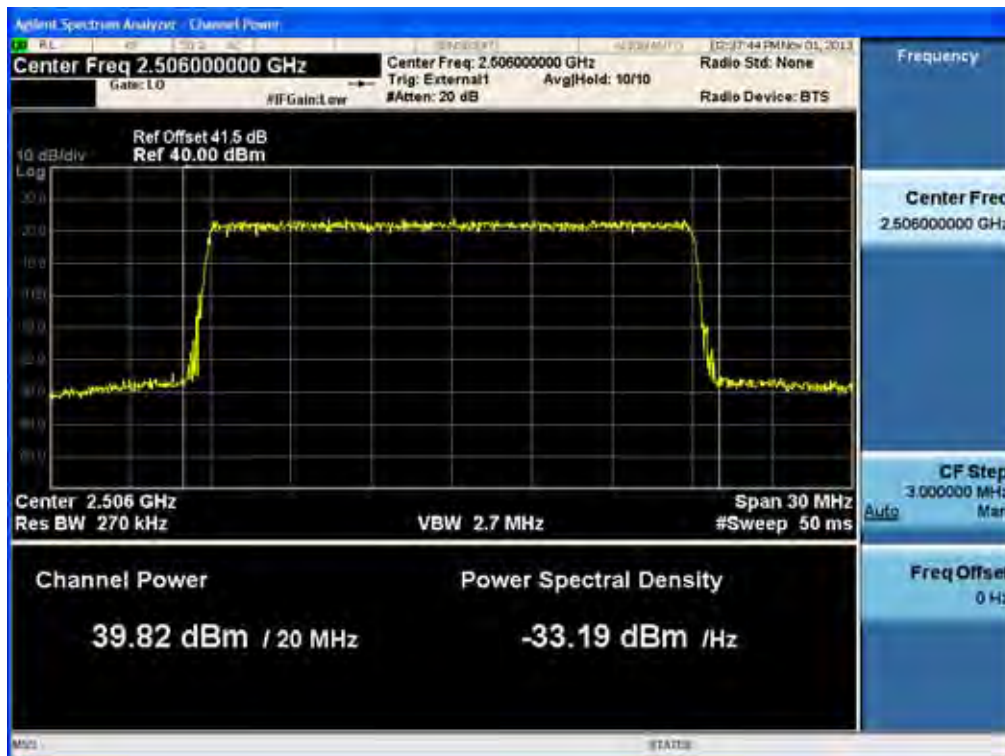


FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 70 of 473

(16QAM High Channel)

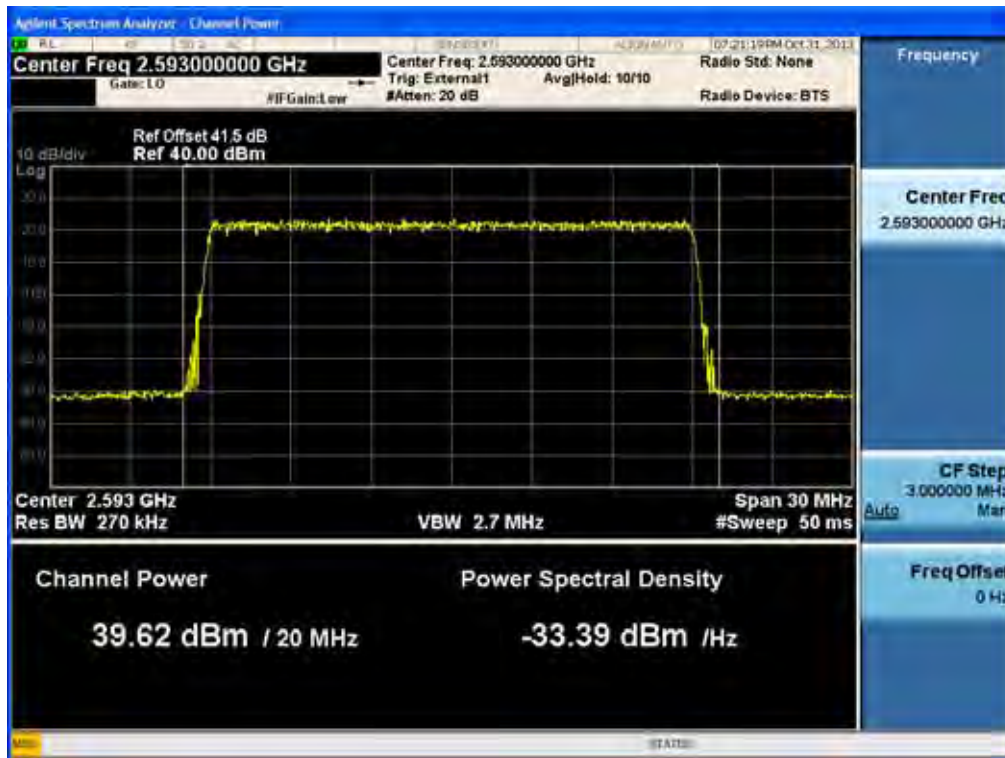


(64QAM Low Channel)

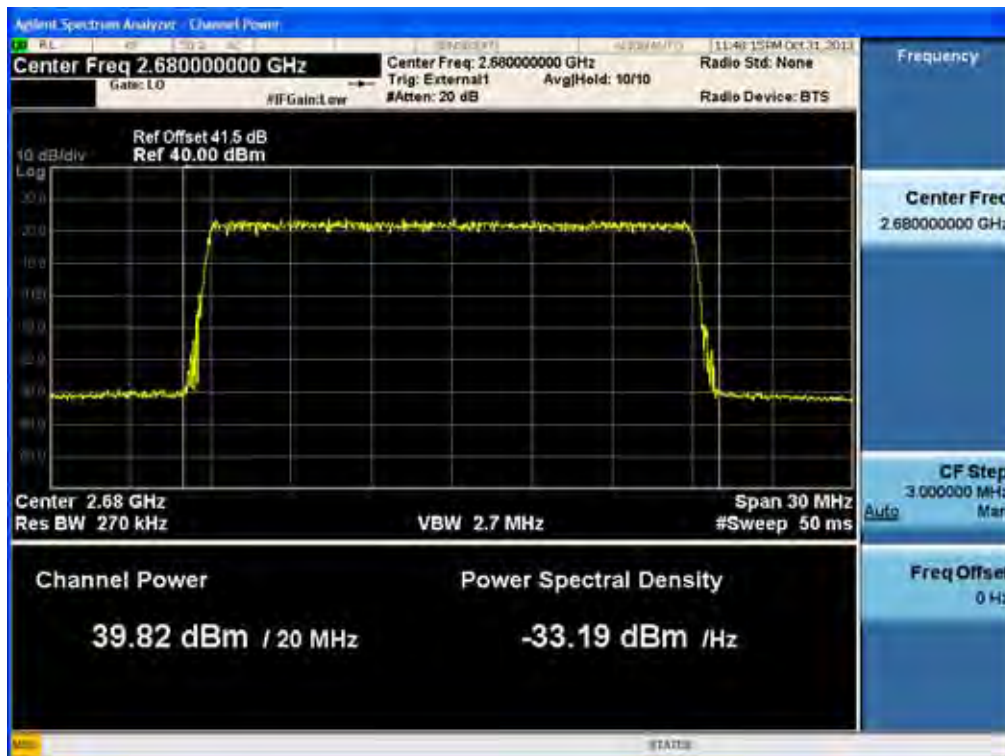


FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 71 of 473

(64QAM Middle Channel)



(64QAM High Channel)

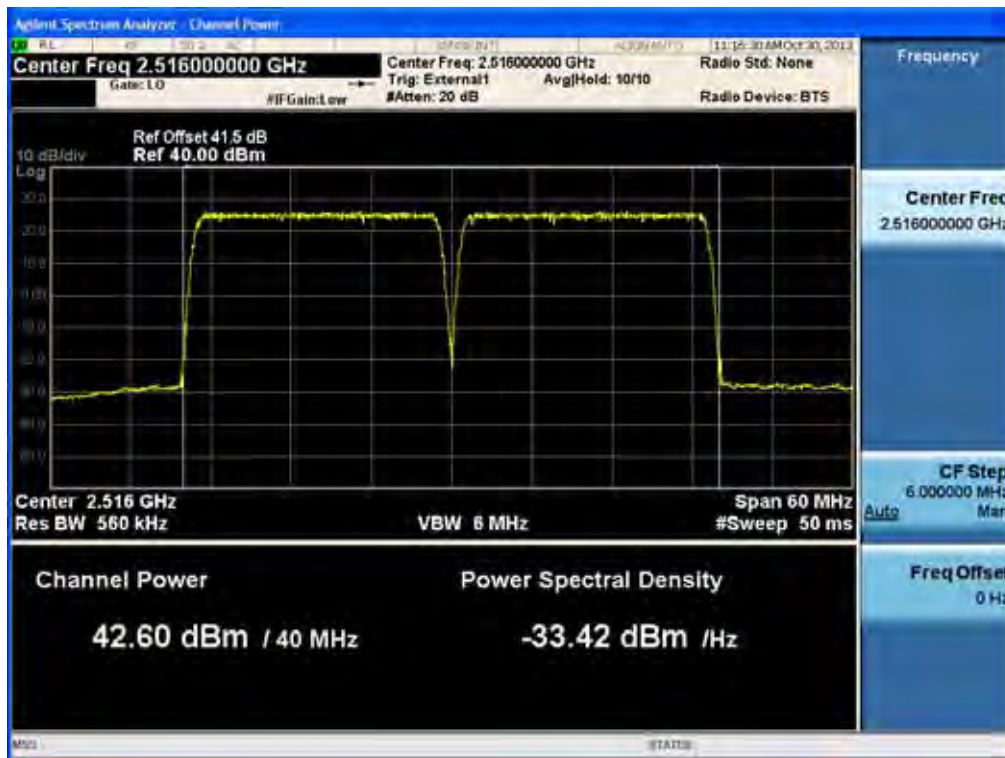


LTE20M(10W) 2 Carrier

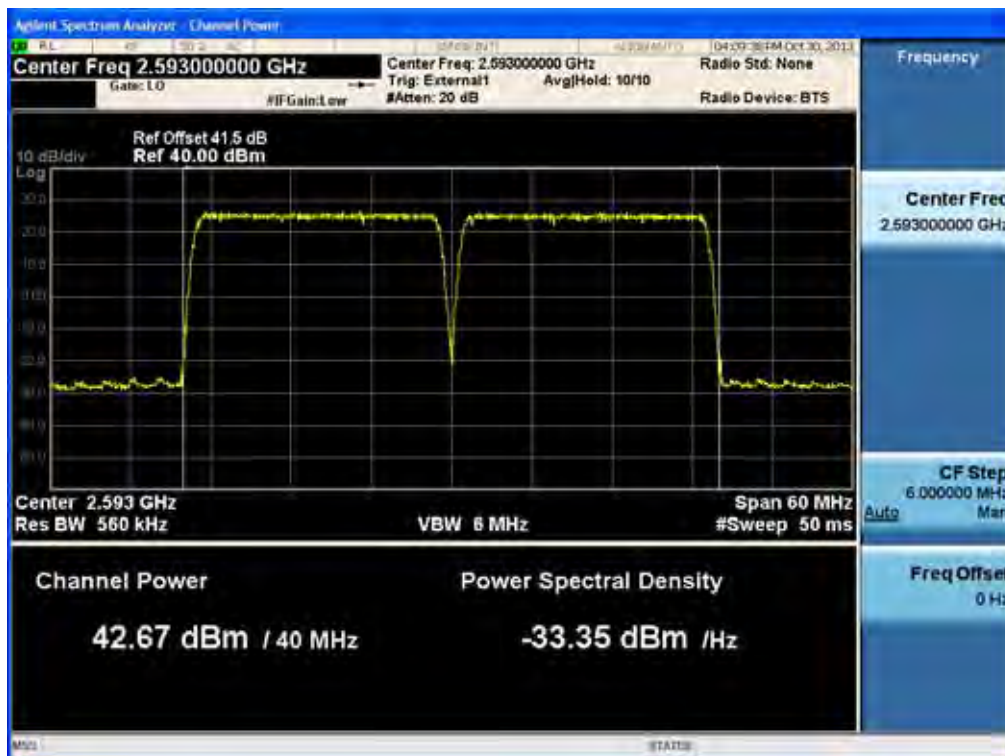
FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 72 of 473

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

(QPSK Low Channel)

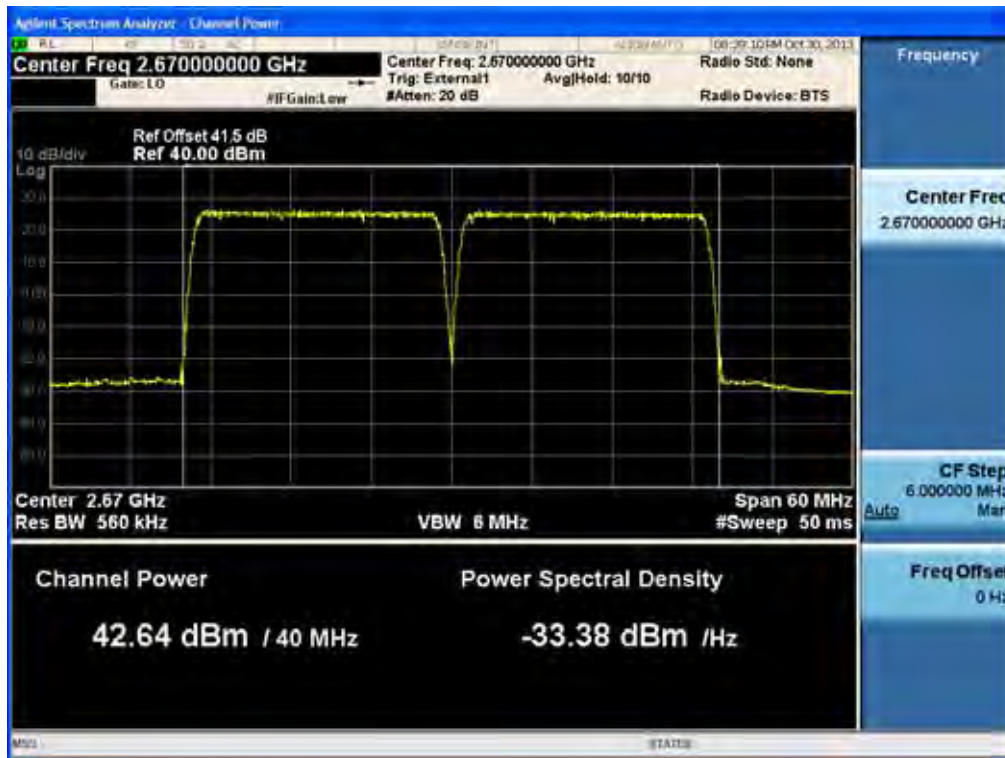


(QPSK Middle Channel)



FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 73 of 473

(QPSK High Channel)

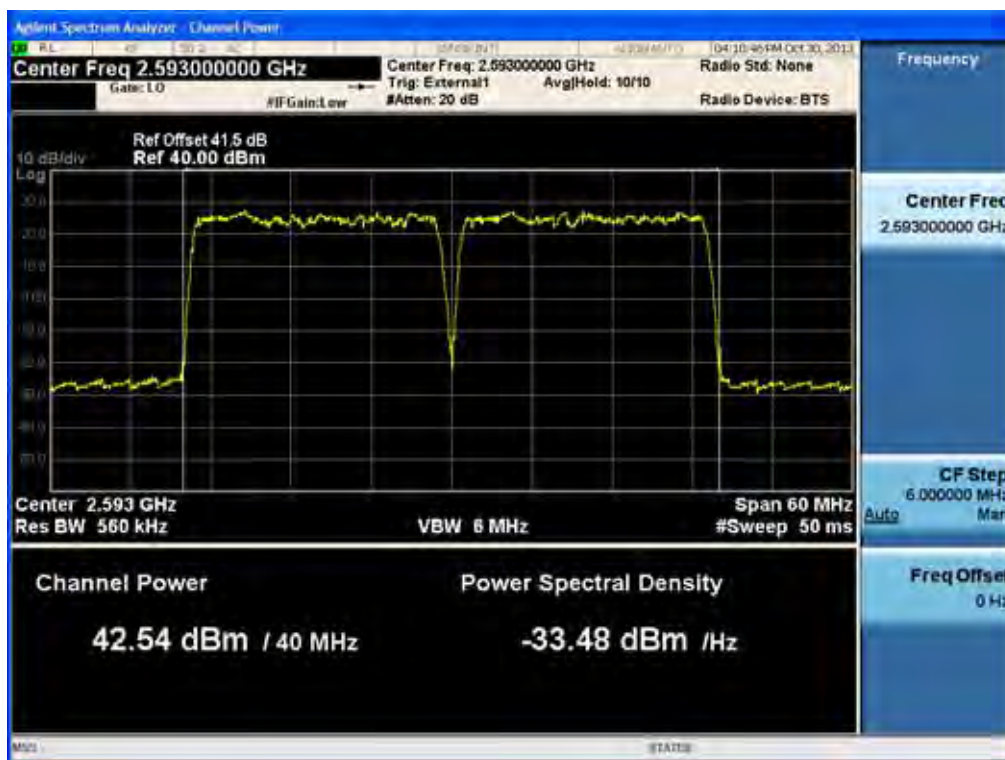


(16QAM Low Channel)

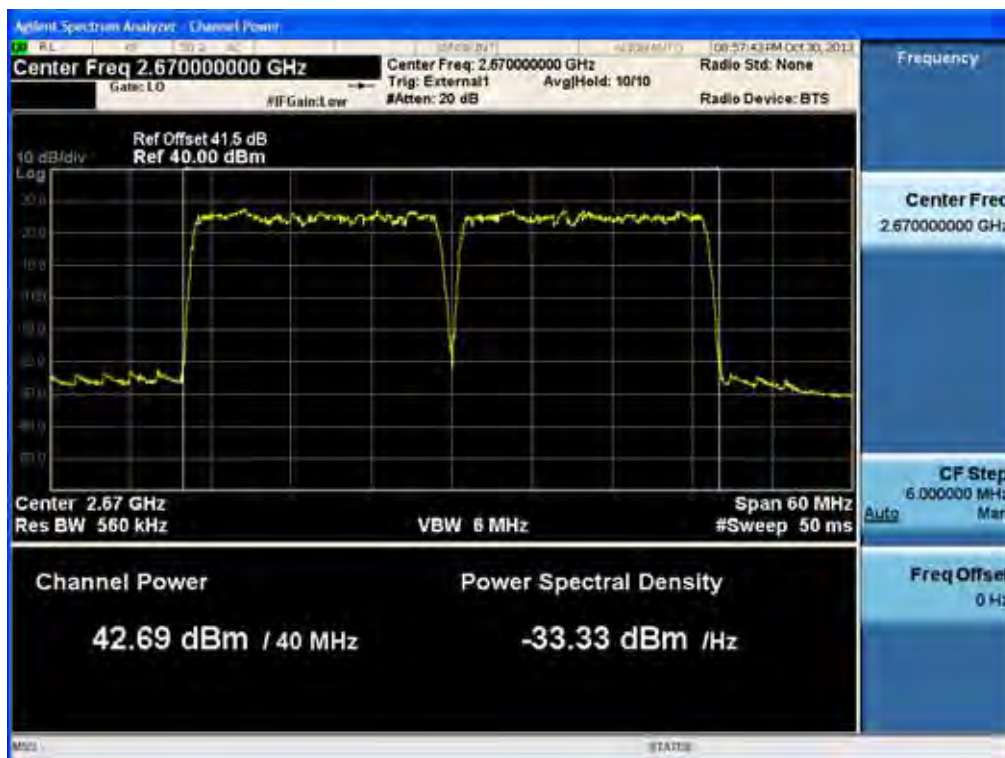


FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 74 of 473

(16QAM Middle Channel)



(16QAM High Channel)



FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 75 of 473

(64QAM Low Channel)

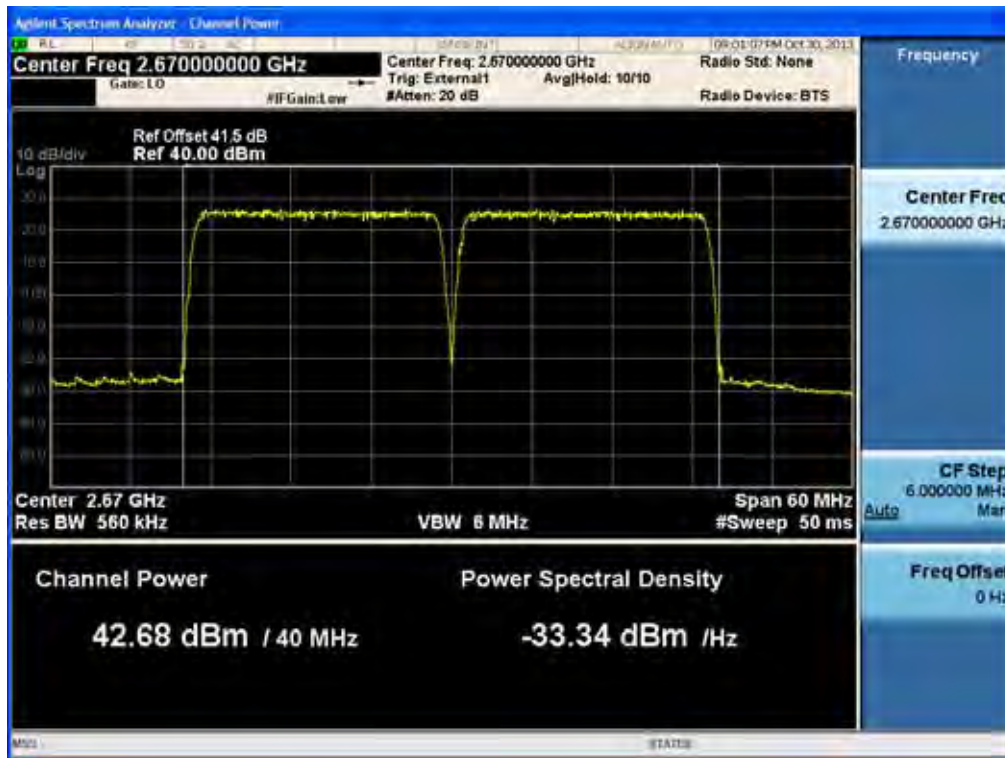


(64QAM Middle Channel)



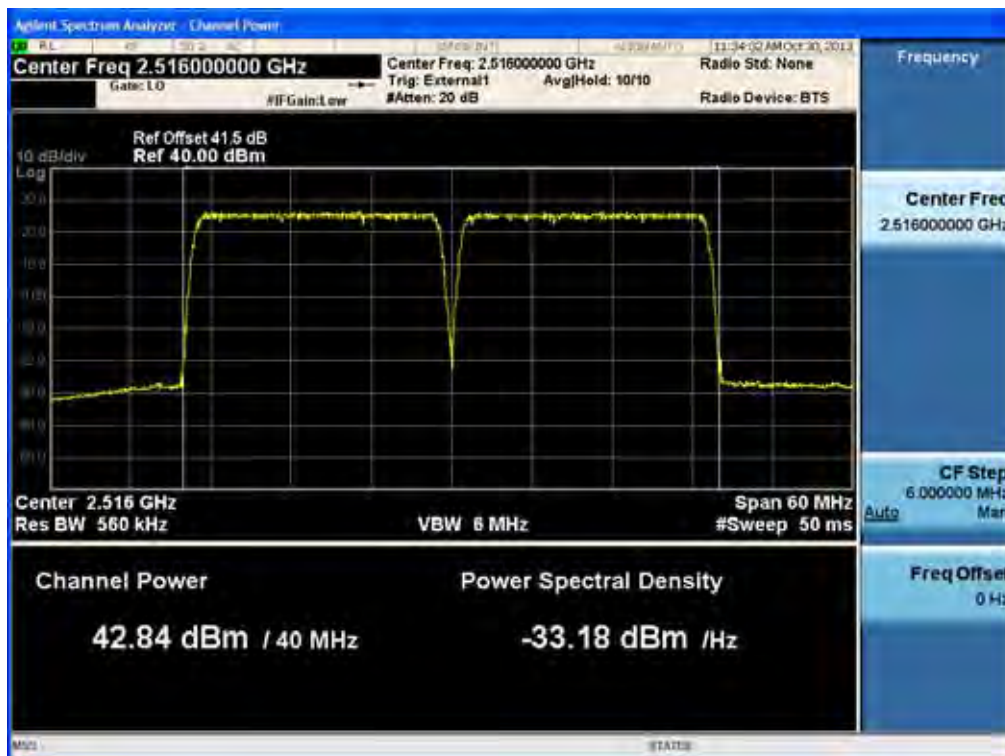
FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 76 of 473

(64QAM High Channel)



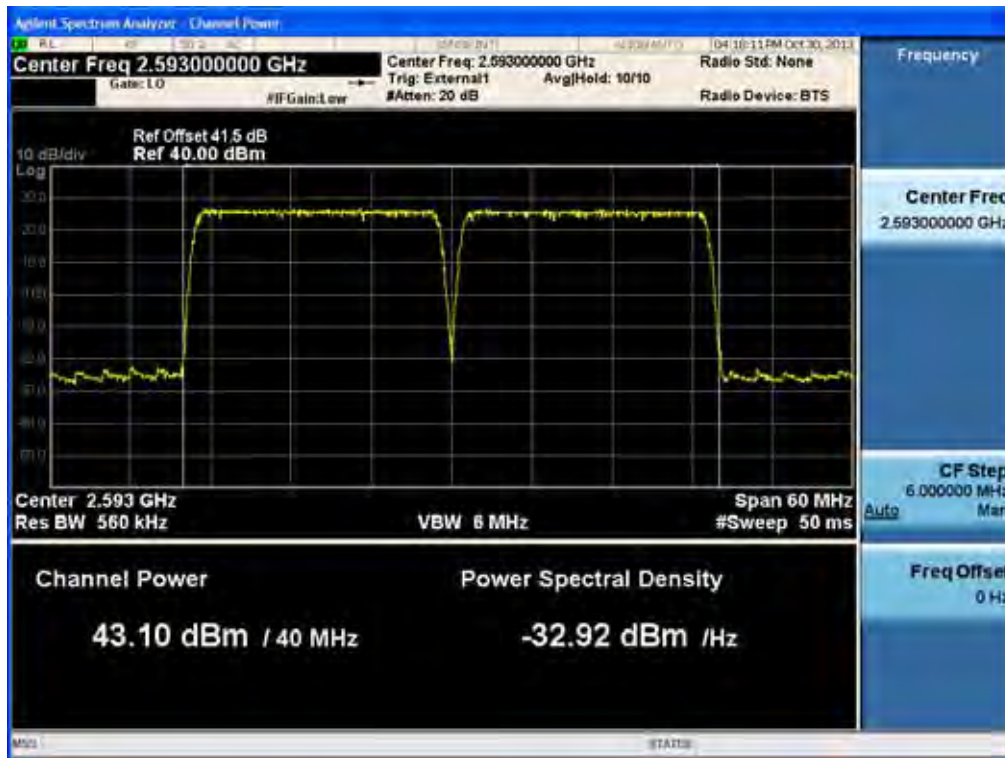
5.7.23. Plot Data for Output Port 2 (Conducted Output Power)

(QPSK Low Channel)

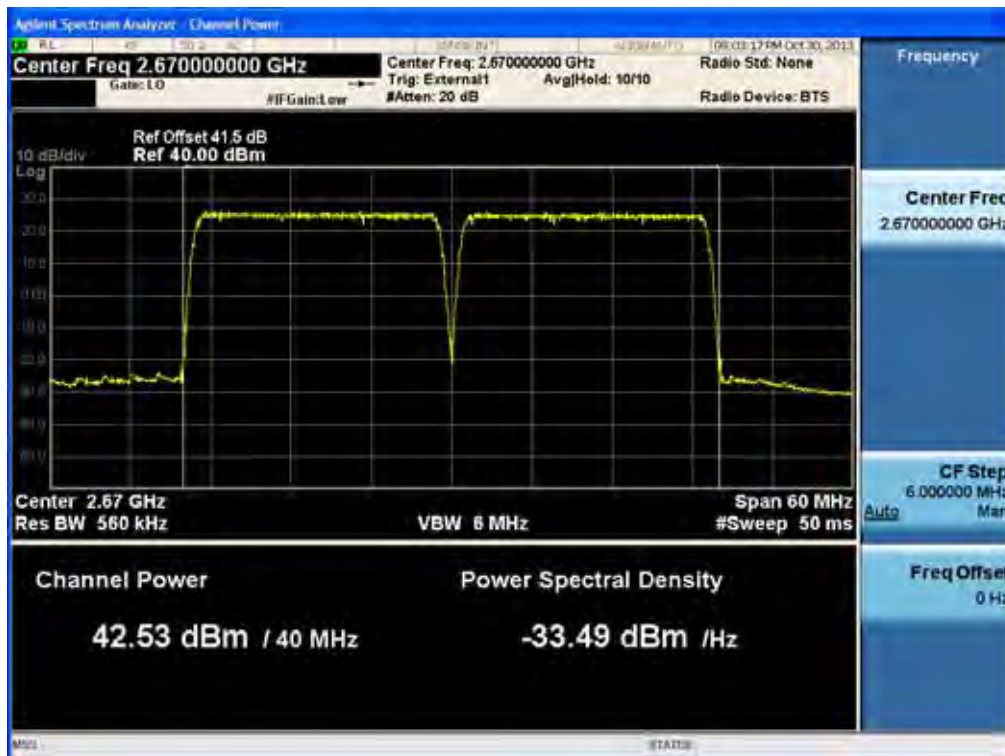


FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 77 of 473

(QPSK Middle Channel)



(QPSK High Channel)



FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 78 of 473

(16QAM Low Channel)



(16QAM Middle Channel)

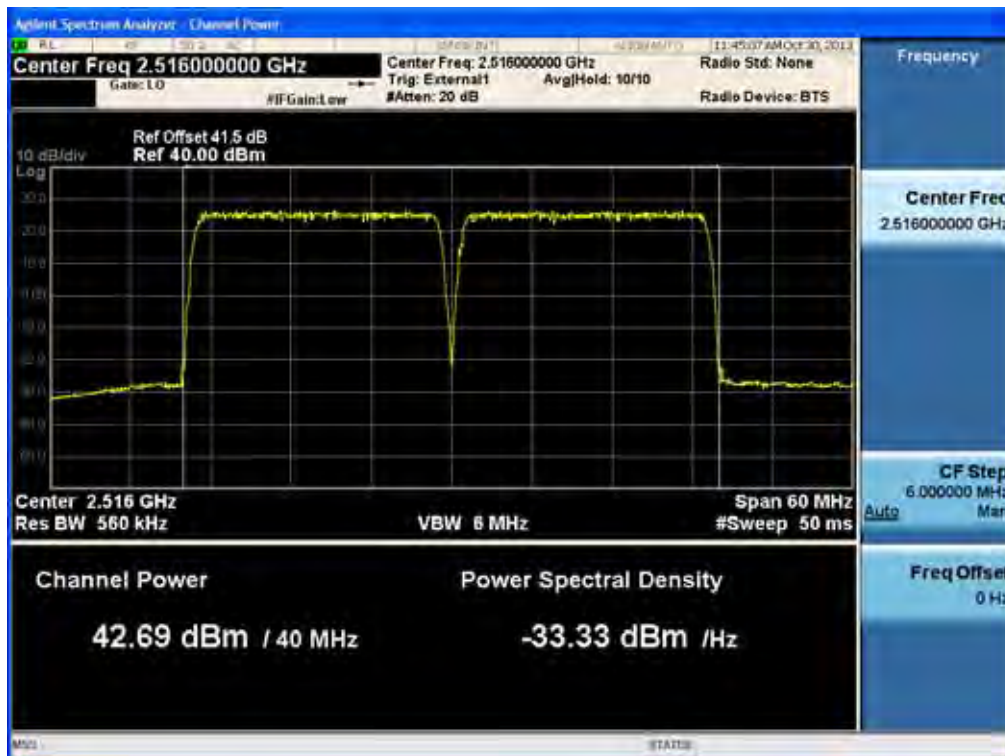


FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 79 of 473

(16QAM High Channel)

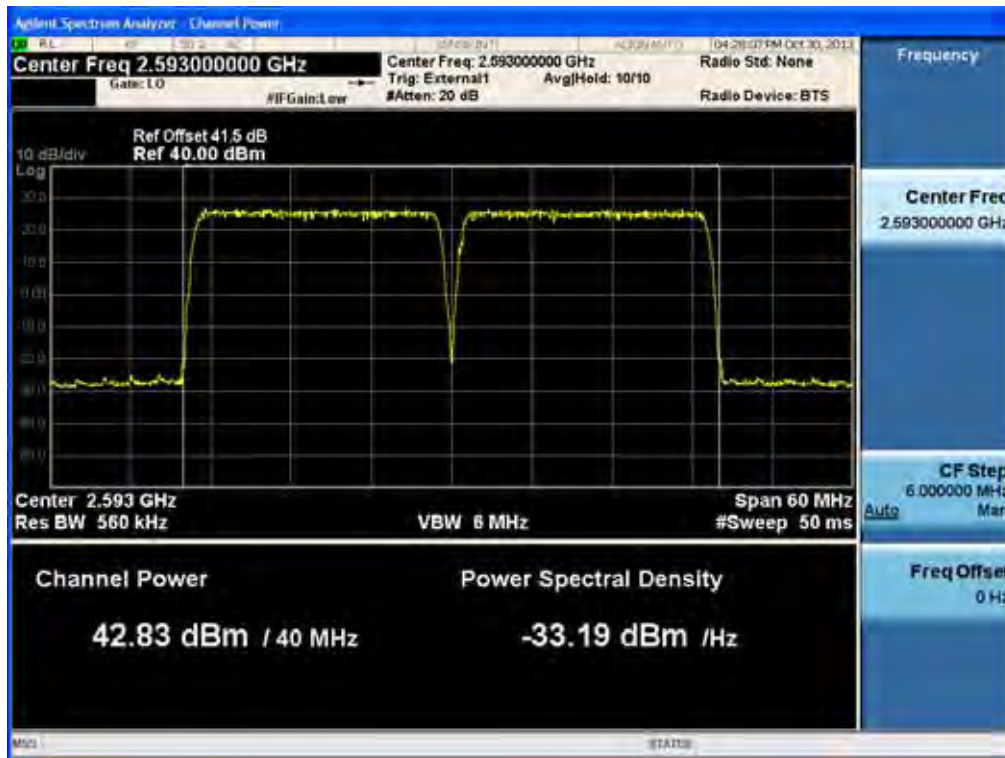


(64QAM Low Channel)

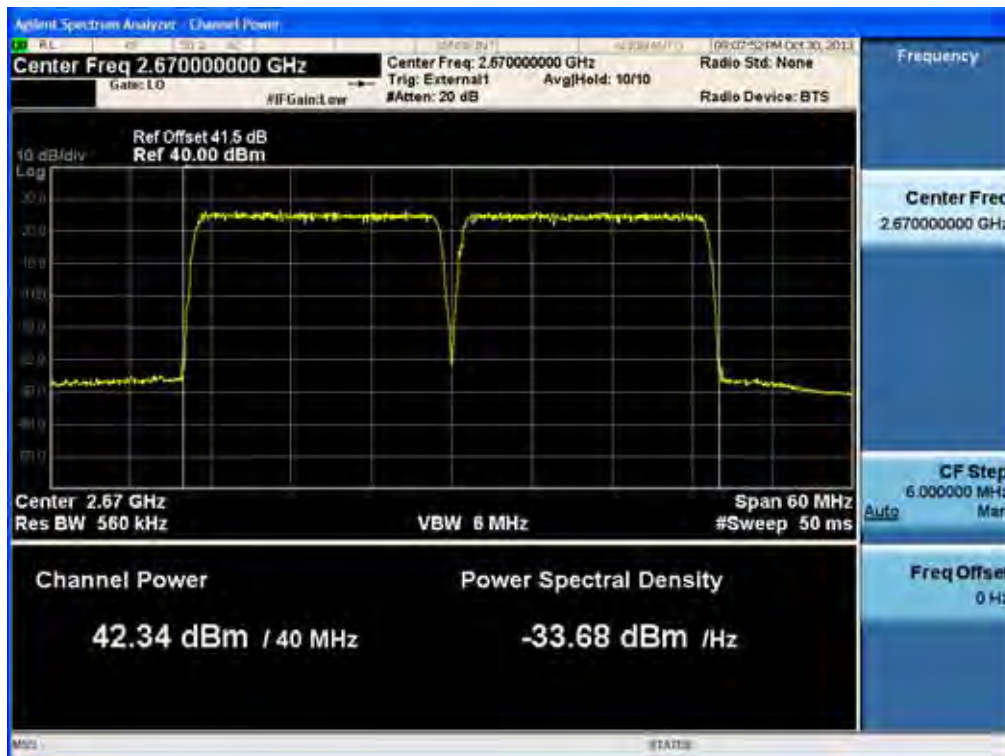


FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 80 of 473

(64QAM Middle Channel)



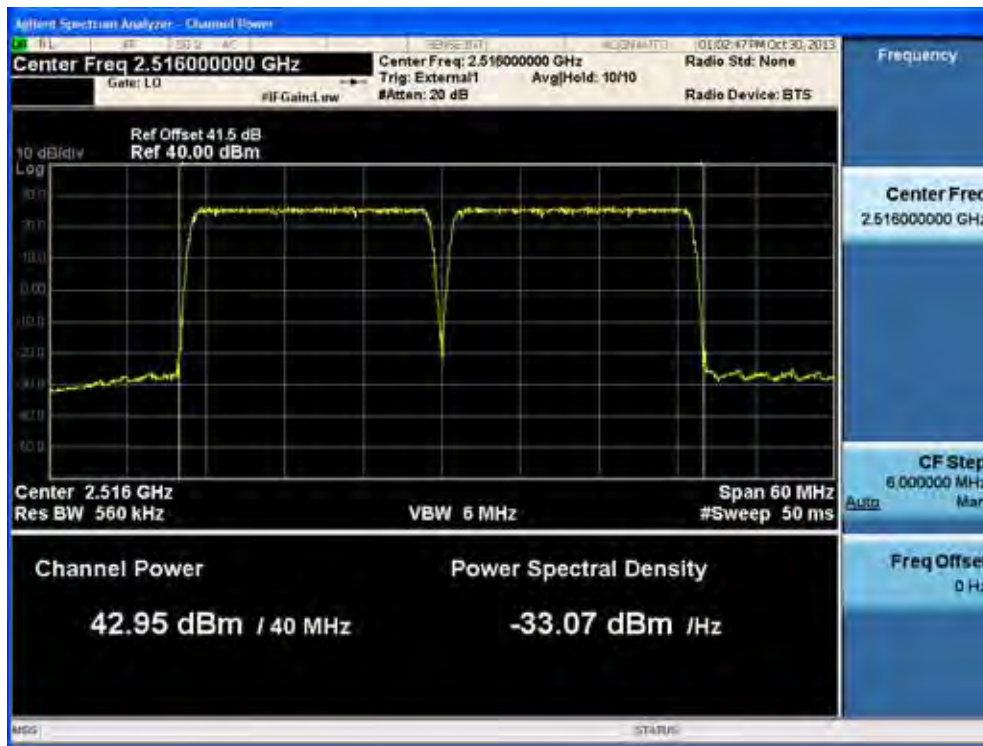
(64QAM High Channel)



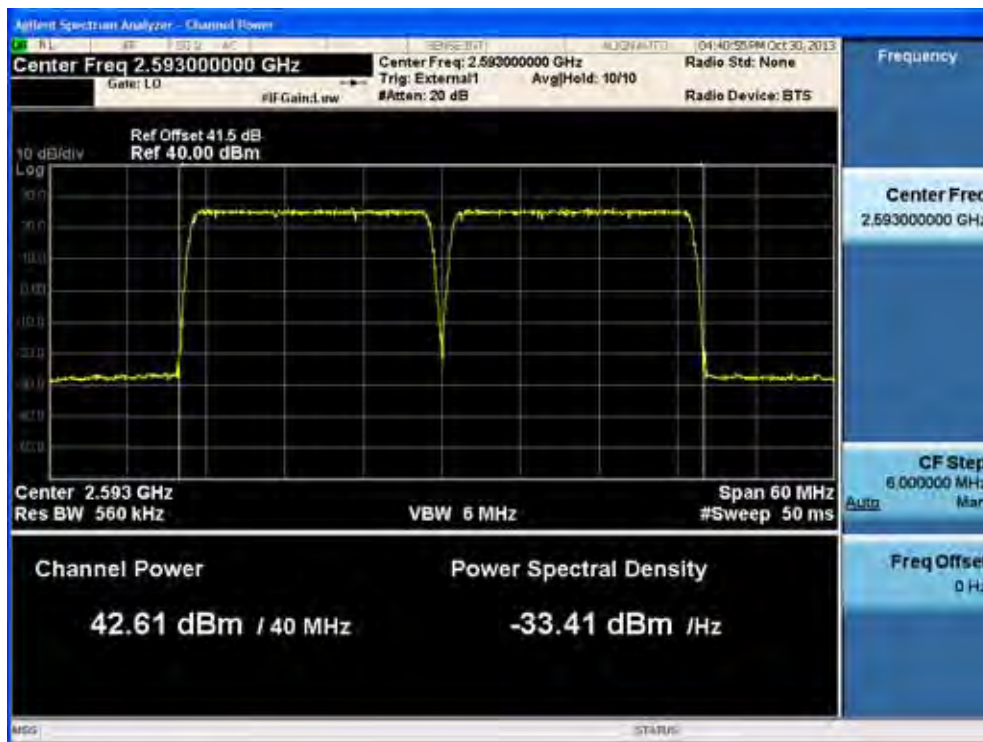
FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 81 of 473

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

(QPSK Low Channel)

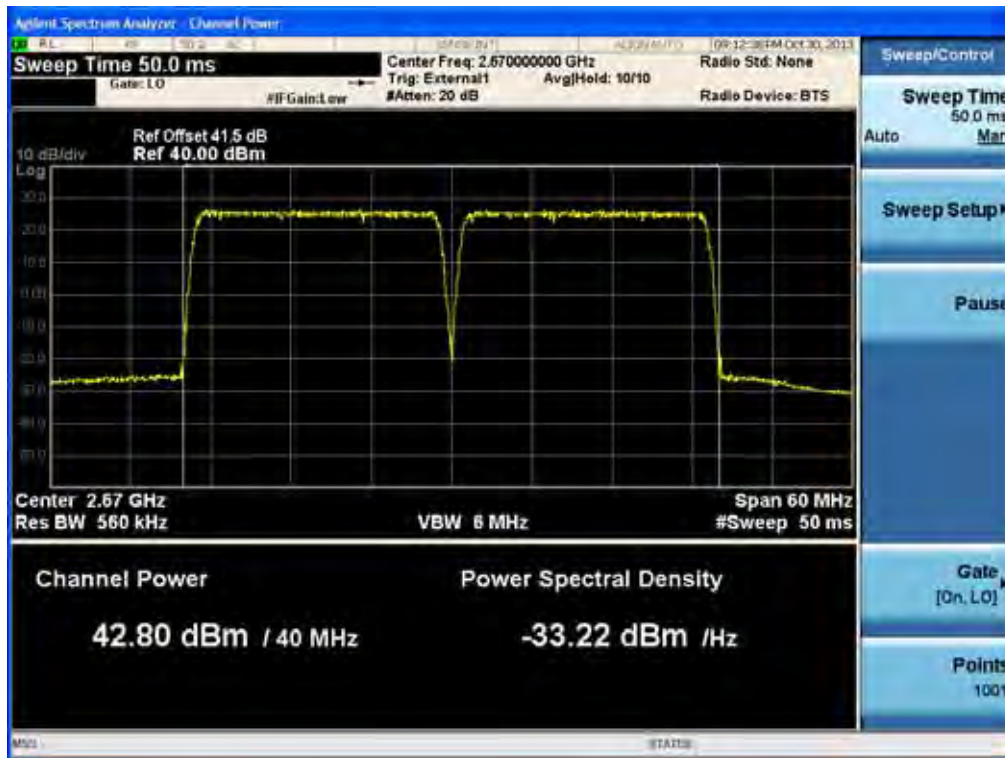


(QPSK Middle Channel)

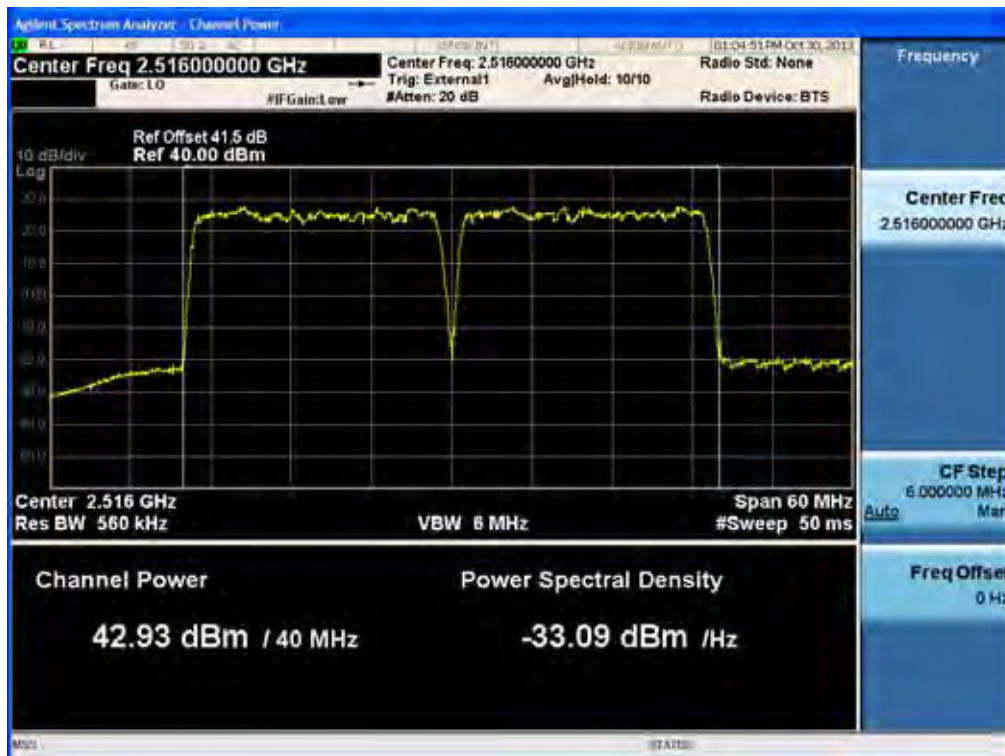


FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 82 of 473

(QPSK High Channel)



(16QAM Low Channel)



FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 83 of 473

(16QAM Middle Channel)



(16QAM High Channel)



FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 84 of 473

(64QAM Low Channel)

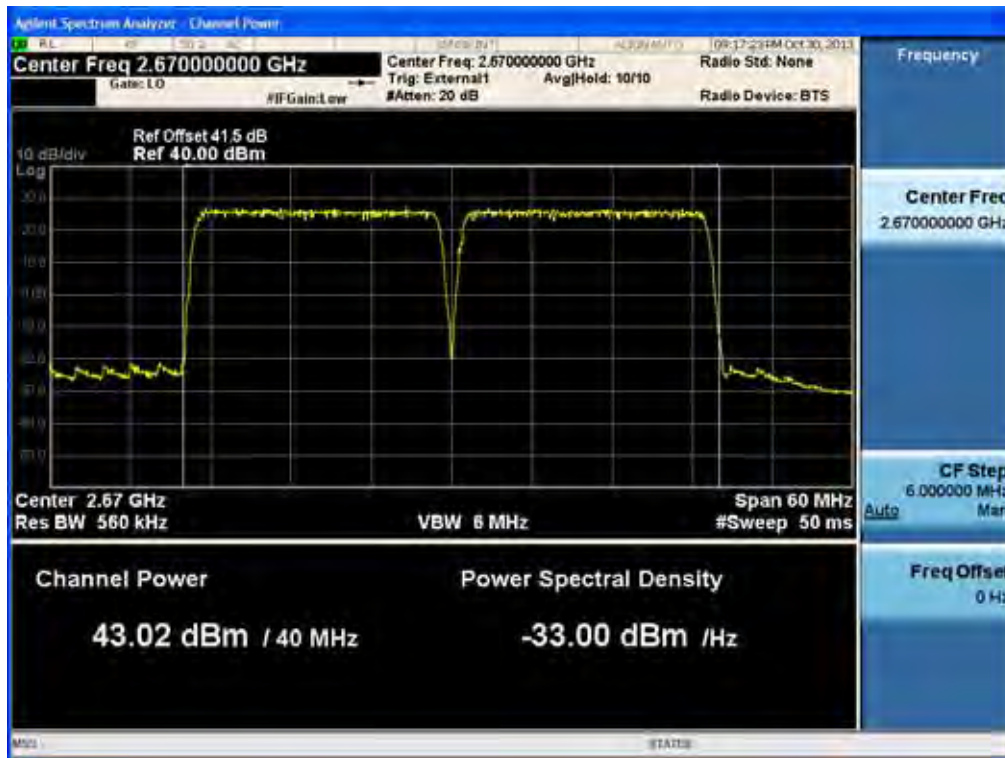


(64QAM Middle Channel)



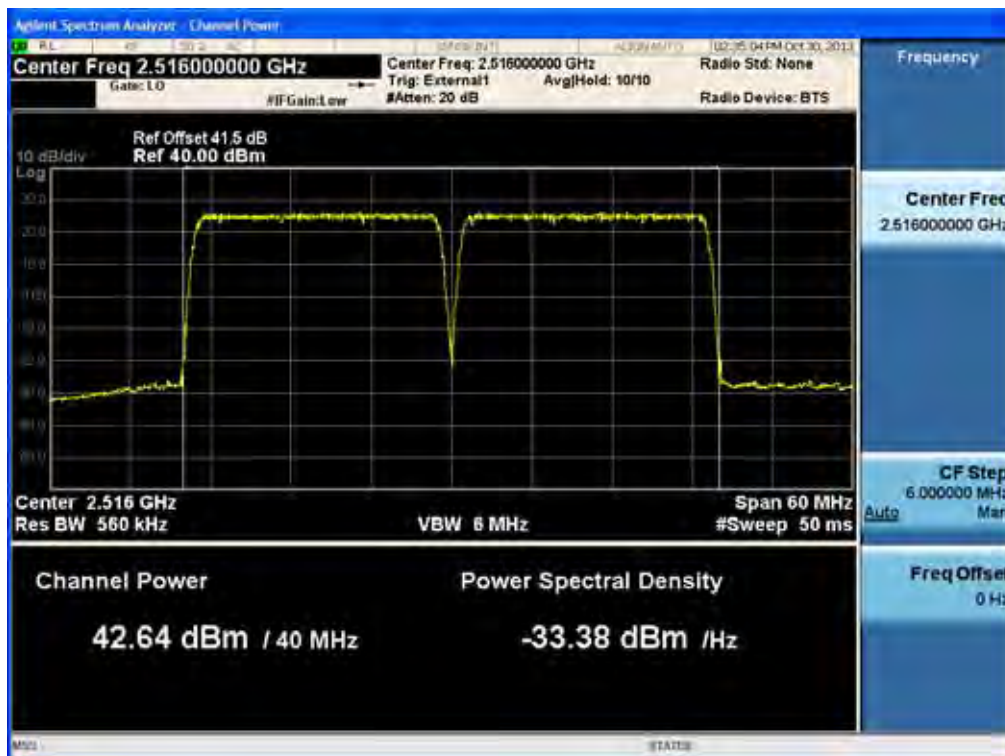
FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 85 of 473

(64QAM High Channel)



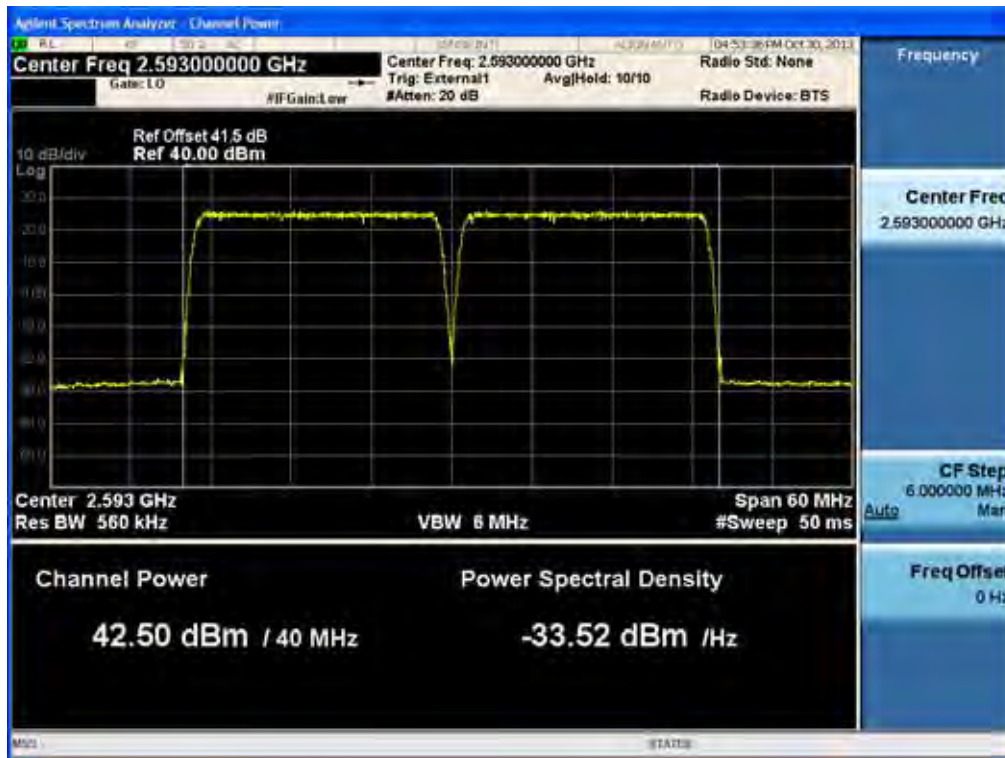
5.7.25. Plot Data for Output Port 4 (Conducted Output Power)

(QPSK Low Channel)

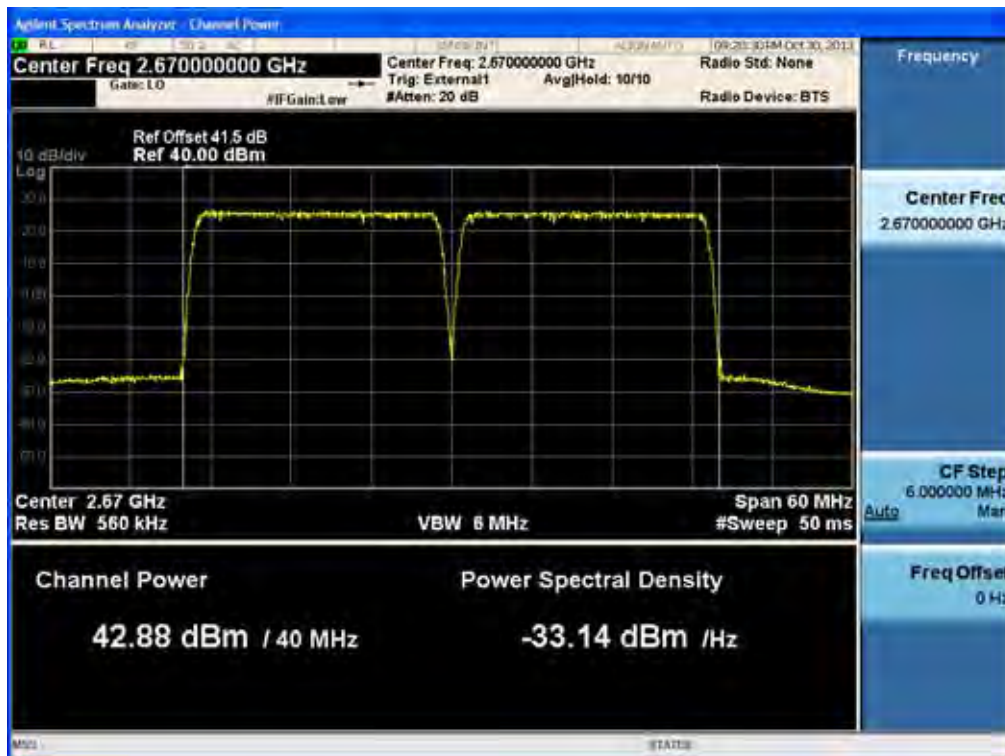


FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 86 of 473

(QPSK Middle Channel)



(QPSK High Channel)

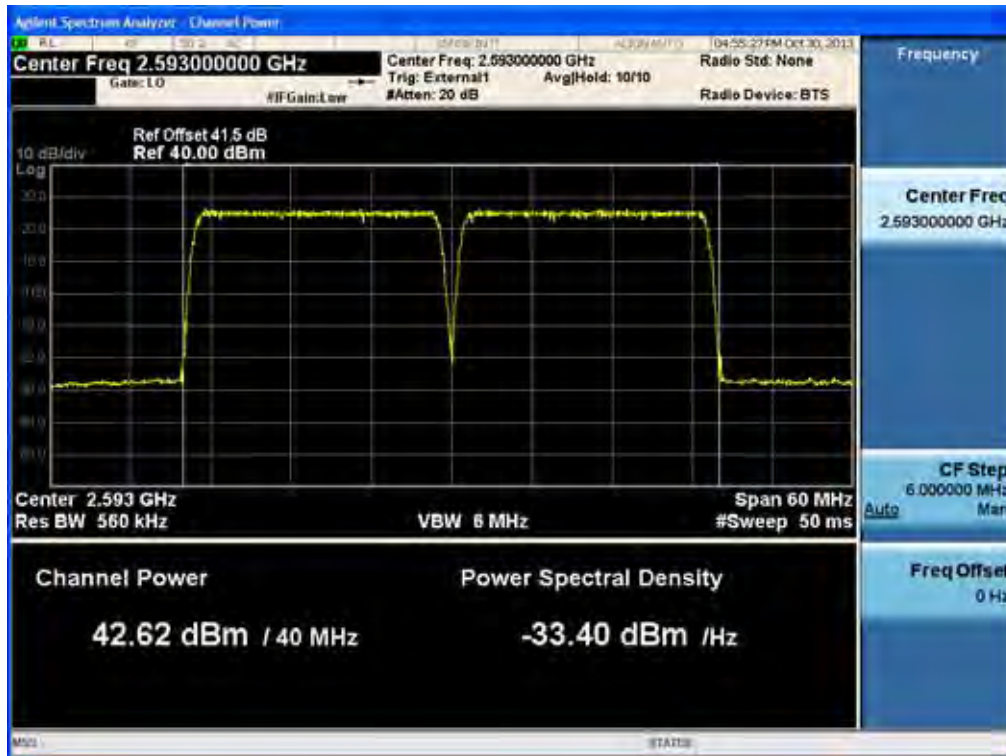


FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 87 of 473

(16QAM Low Channel)



(16QAM Middle Channel)

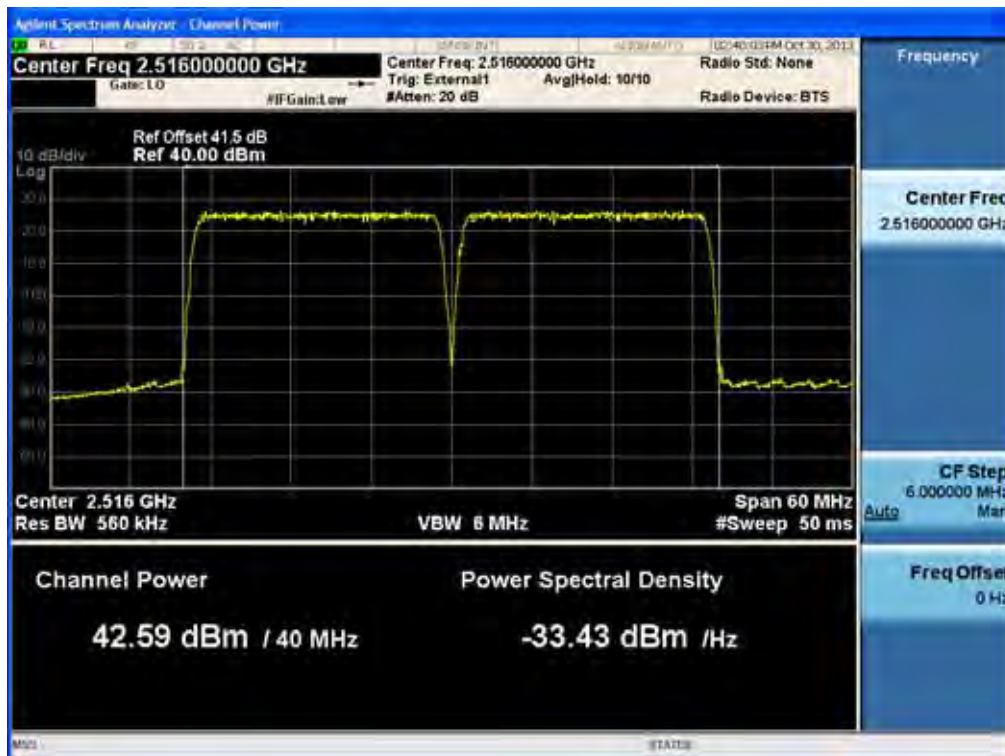


FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 88 of 473

(16QAM High Channel)

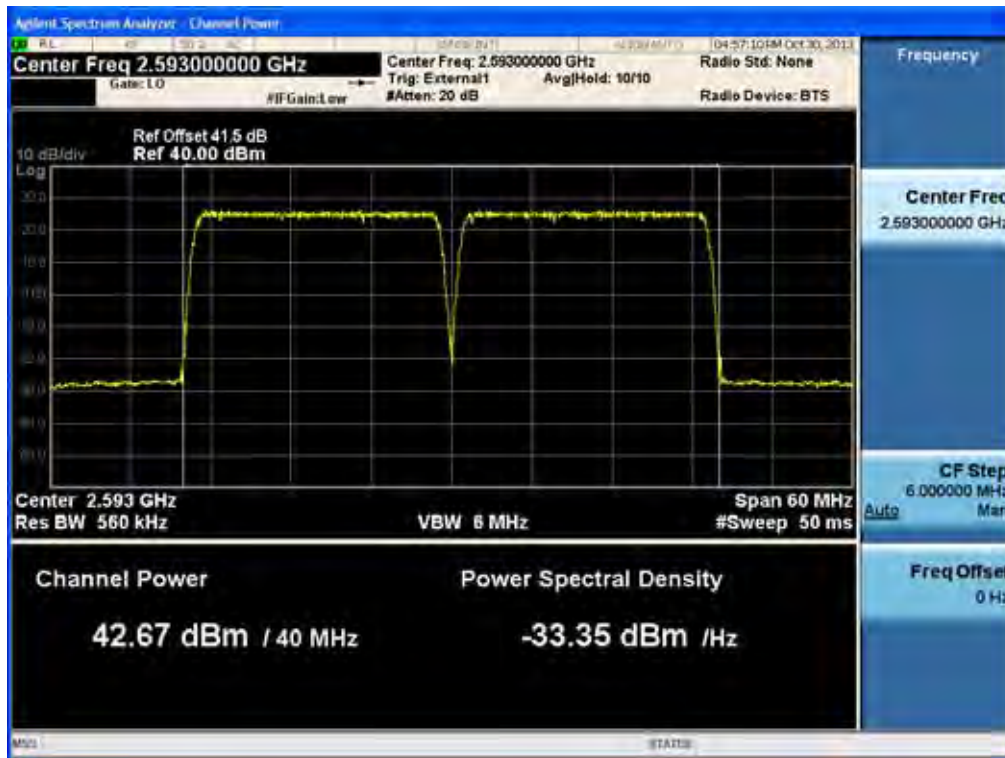


(64QAM Low Channel)

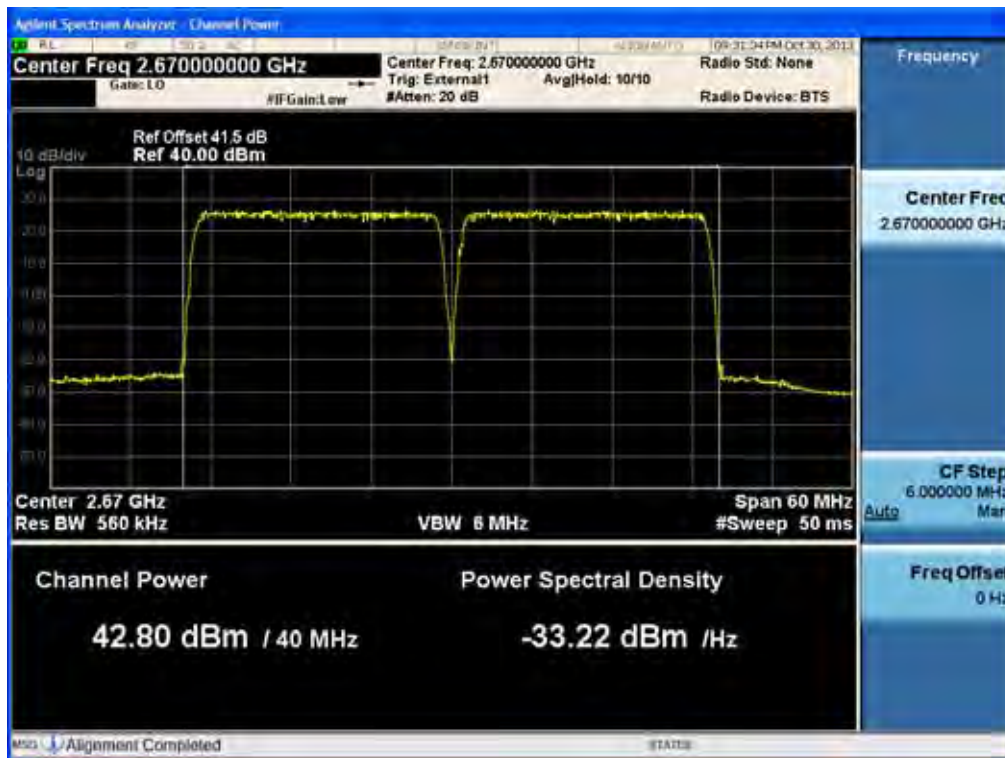


FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 89 of 473

(64QAM Middle Channel)



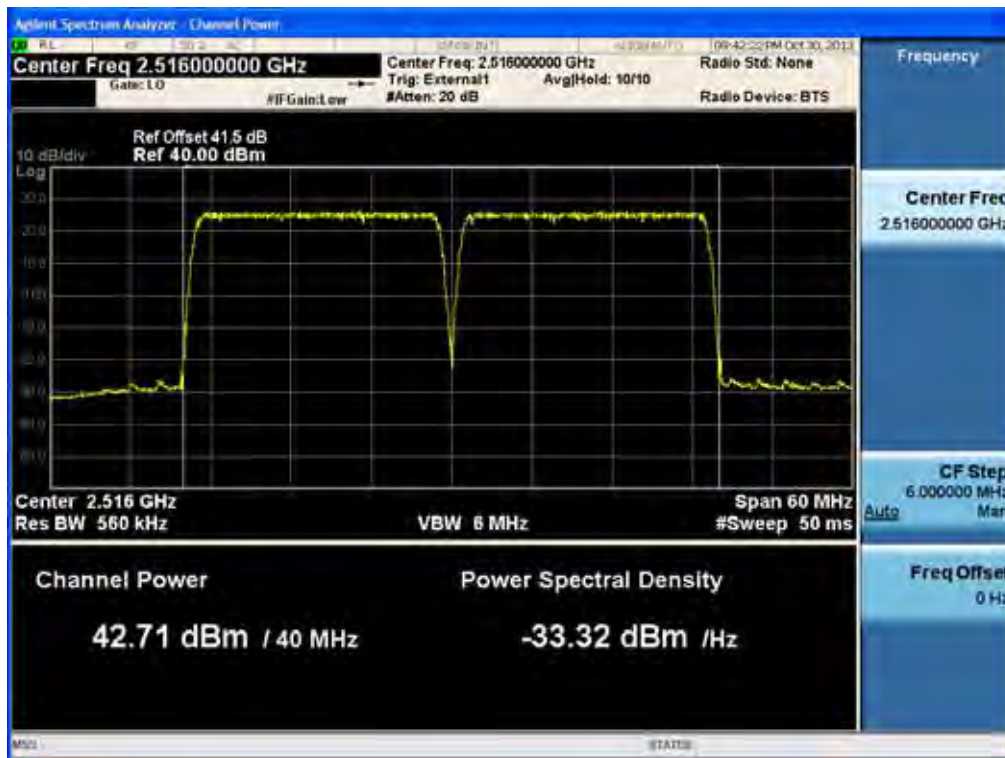
(64QAM High Channel)



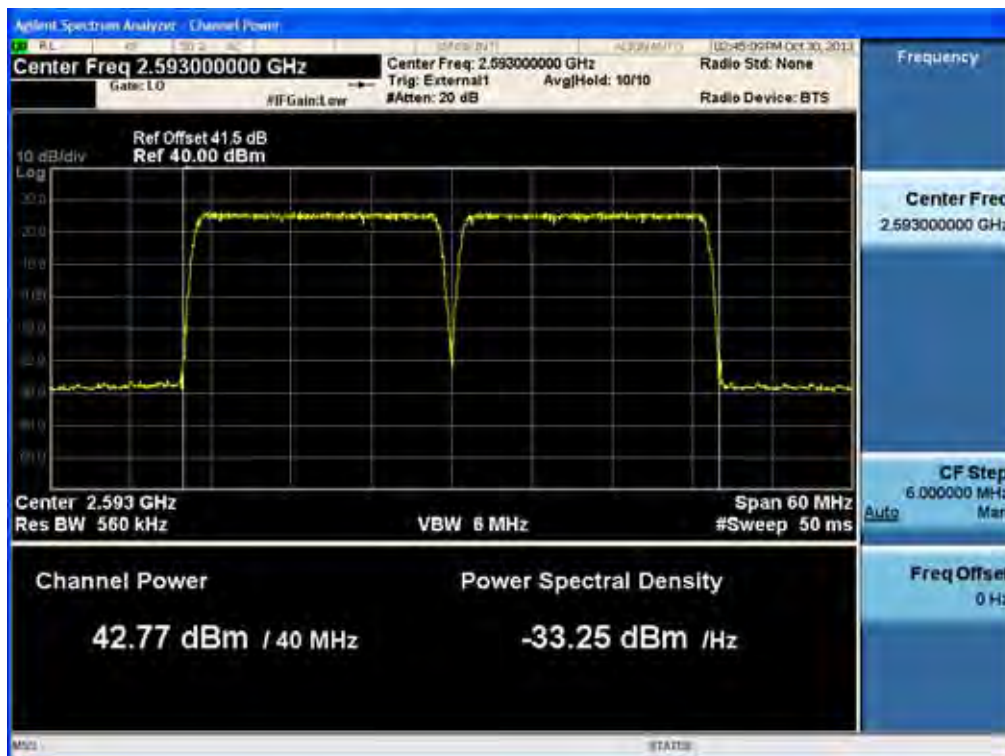
FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 90 of 473

5.7.26. Plot Data for Output Port 5 (Conducted Output Power)

(QPSK Low Channel)

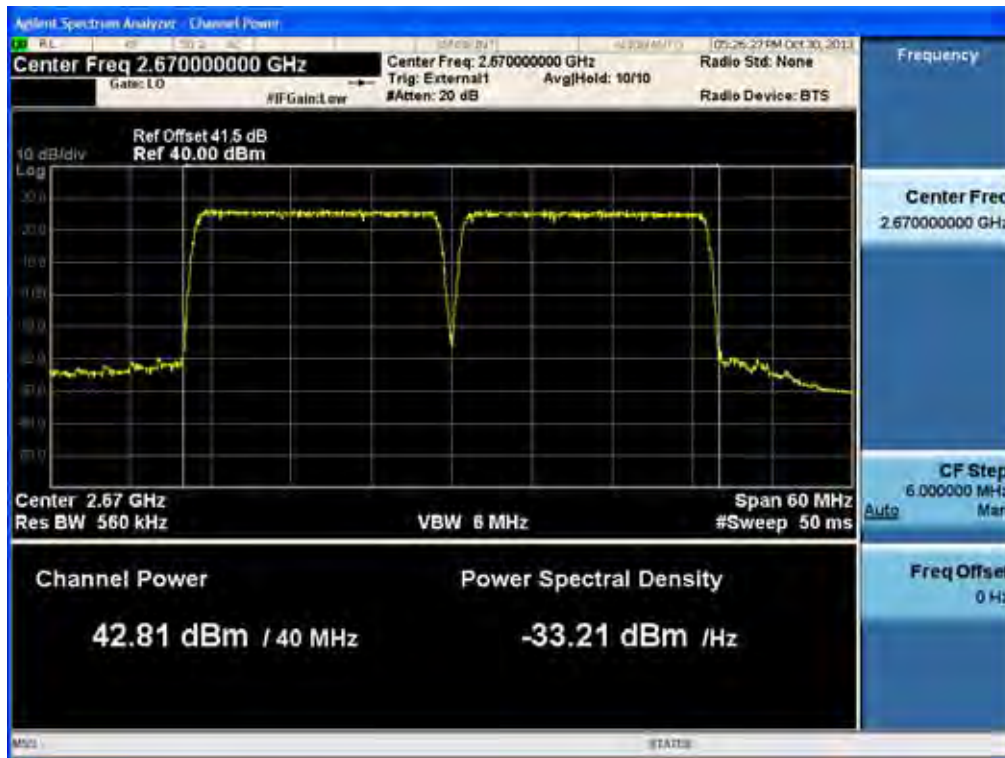


(QPSK Middle Channel)

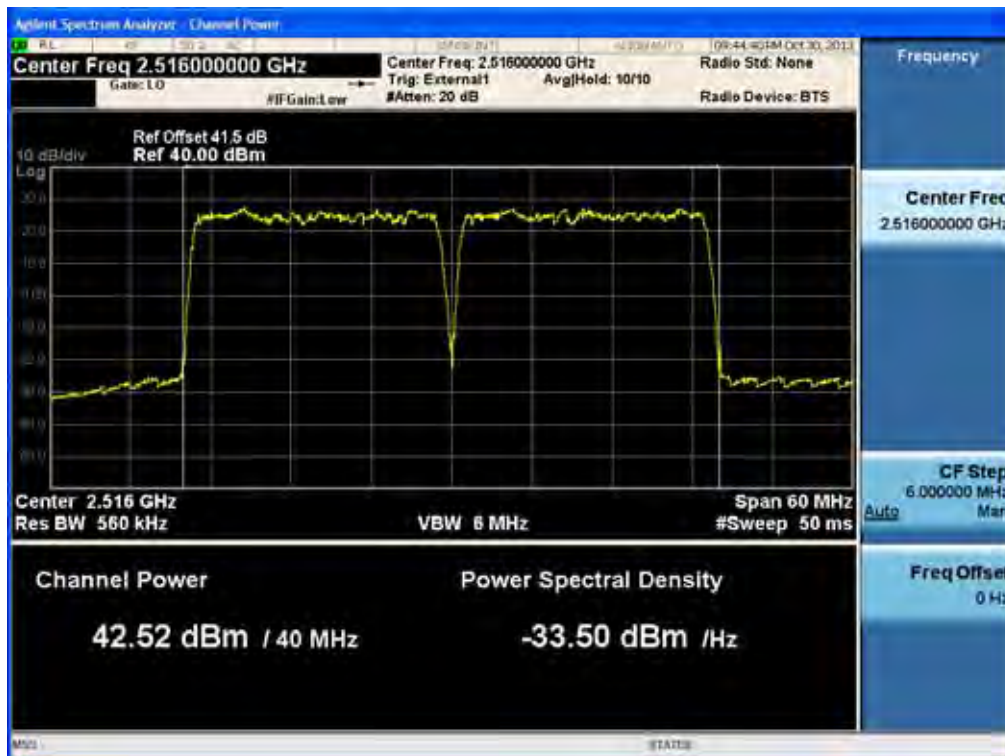


FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 91 of 473

(QPSK High Channel)

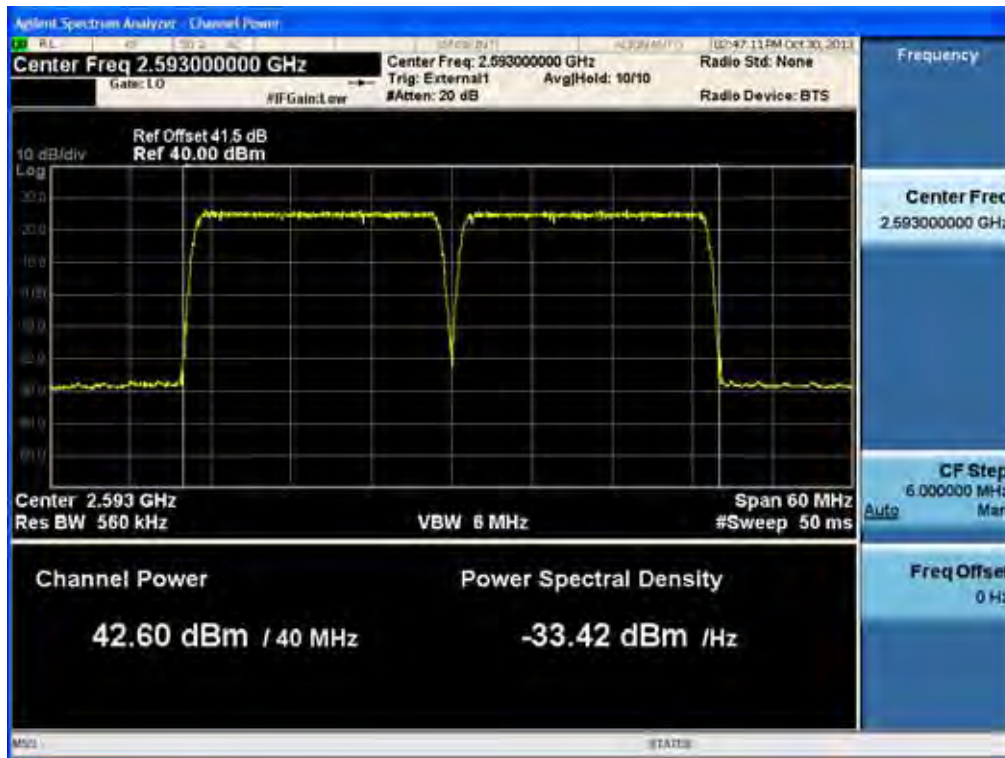


(16QAM Low Channel)



FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 92 of 473

(16QAM Middle Channel)



(16QAM High Channel)



FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 93 of 473

(64QAM Low Channel)

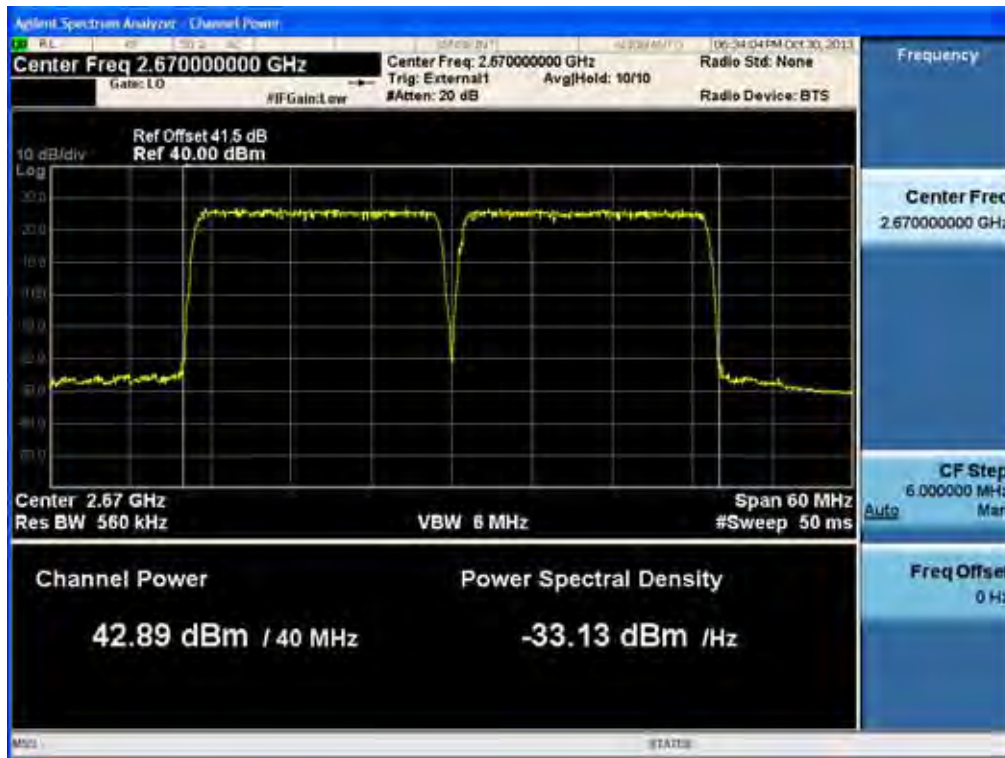


(64QAM Middle Channel)



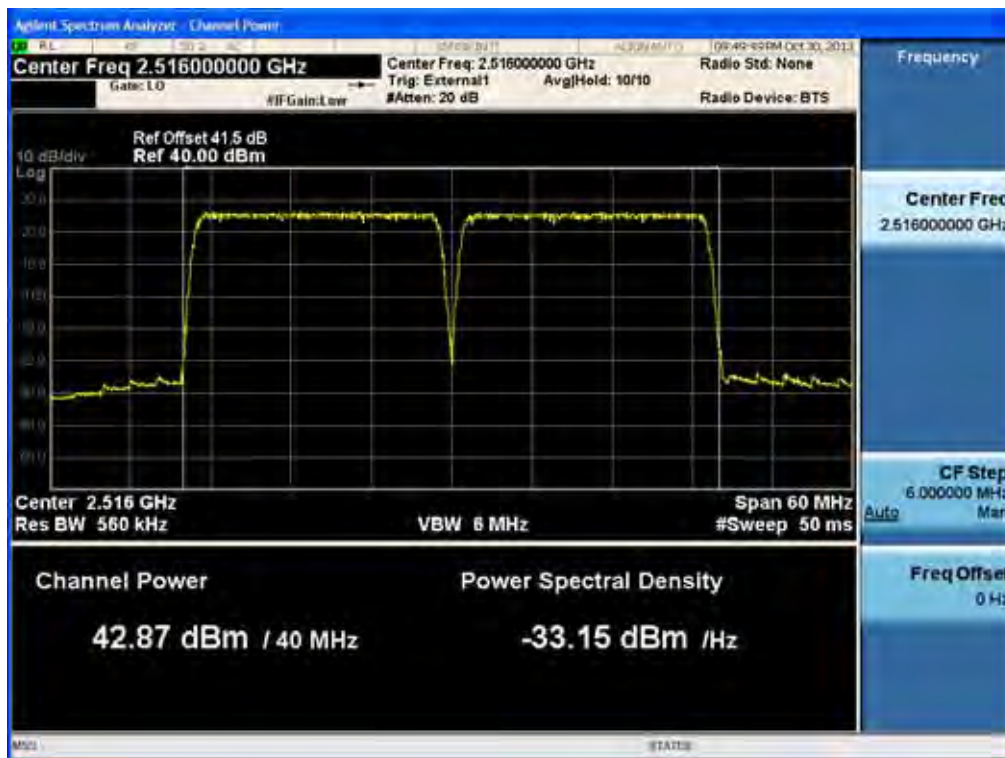
FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 94 of 473

(64QAM High Channel)



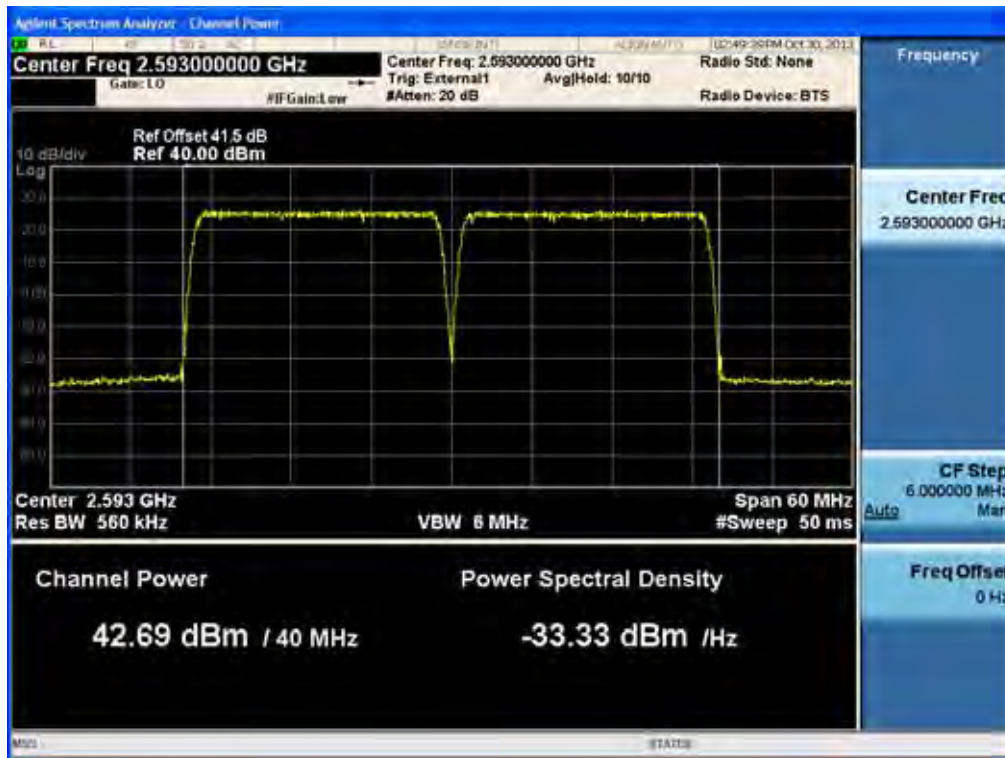
5.7.27. Plot Data for Output Port 6 (Conducted Output Power)

(QPSK Low Channel)

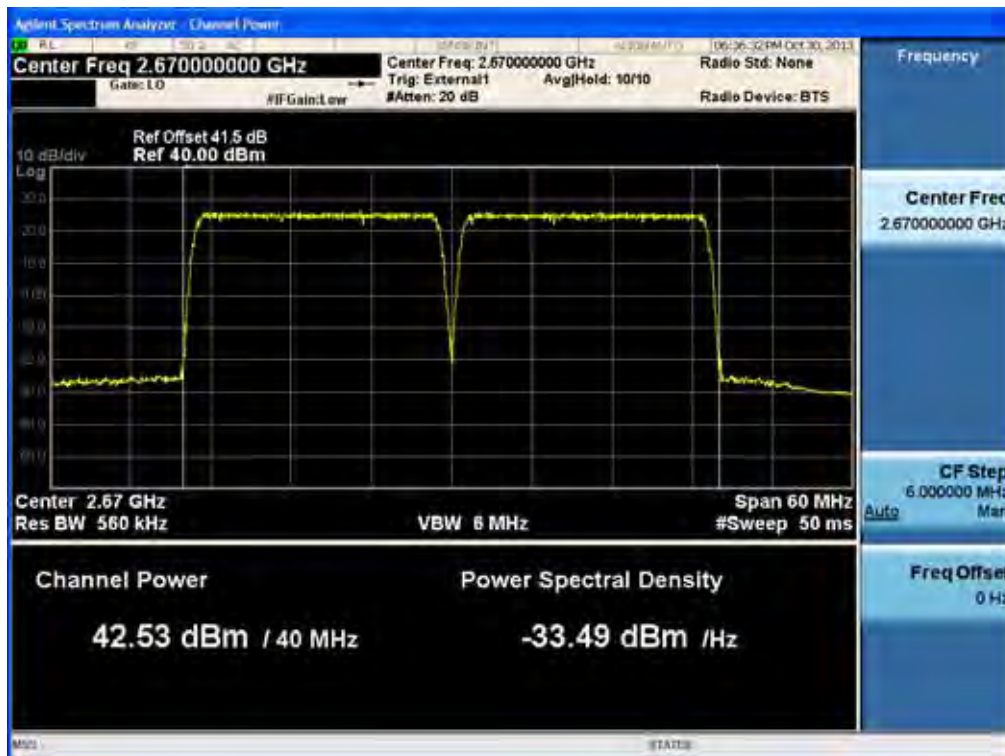


FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 95 of 473

(QPSK Middle Channel)



(QPSK High Channel)



FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 96 of 473

(16QAM Low Channel)



(16QAM Middle Channel)



FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 97 of 473

(16QAM High Channel)

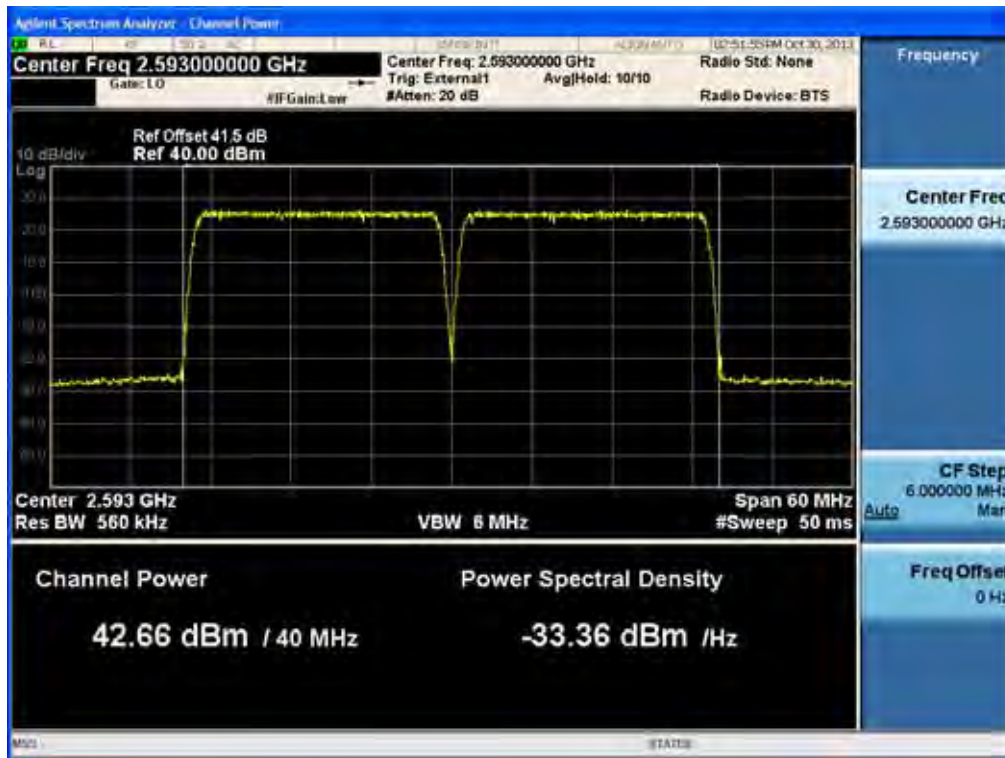


(64QAM Low Channel)

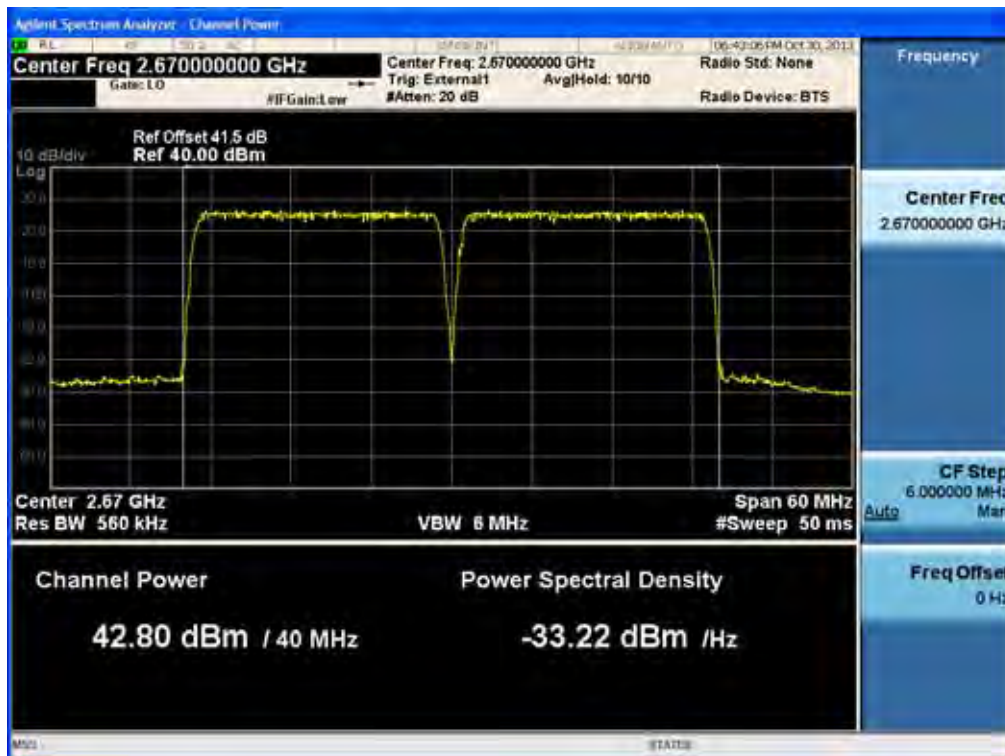


FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 98 of 473

(64QAM Middle Channel)



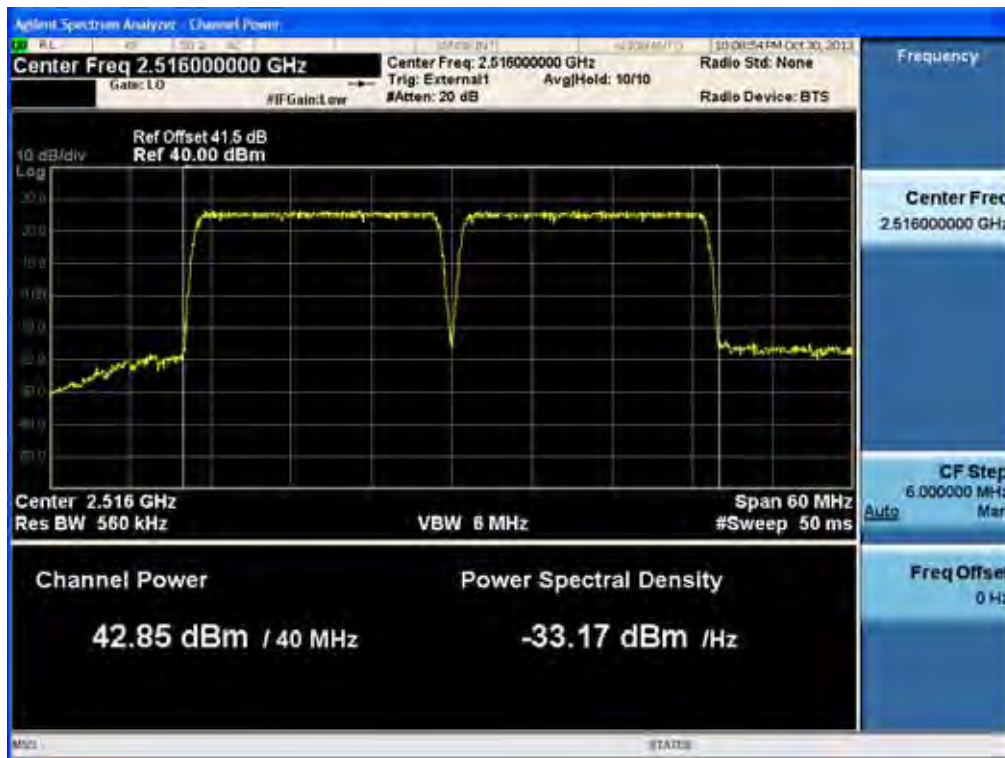
(64QAM High Channel)



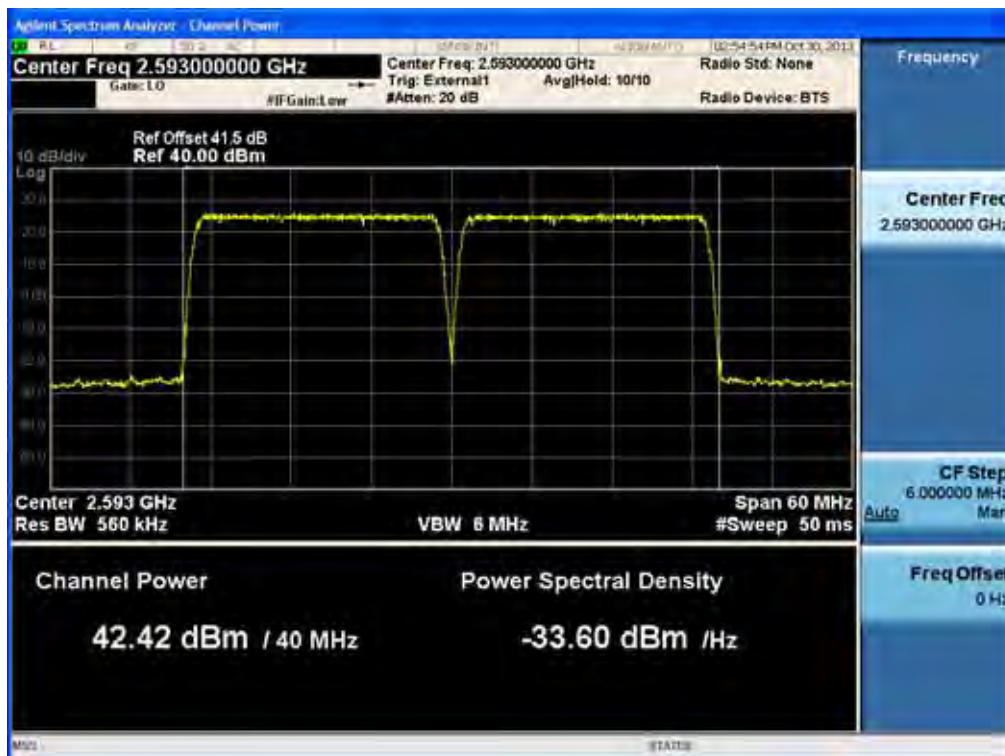
FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 99 of 473

5.7.28. Plot Data for Output Port 7 (Conducted Output Power)

(QPSK Low Channel)

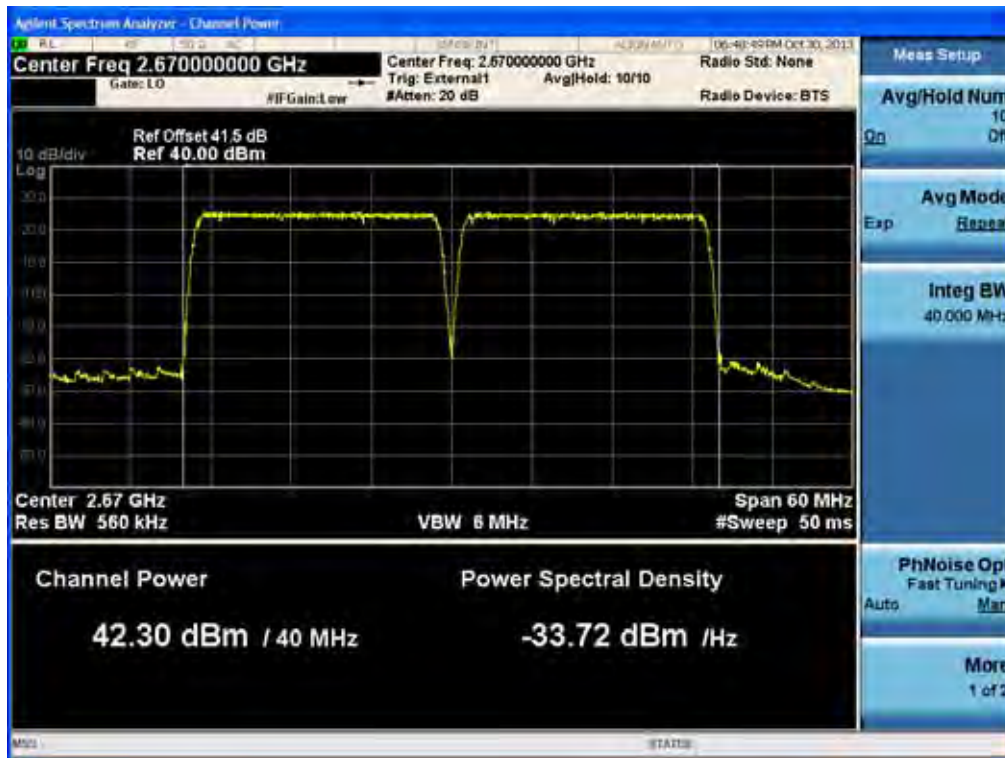


(QPSK Middle Channel)



FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 100 of 473

(QPSK High Channel)

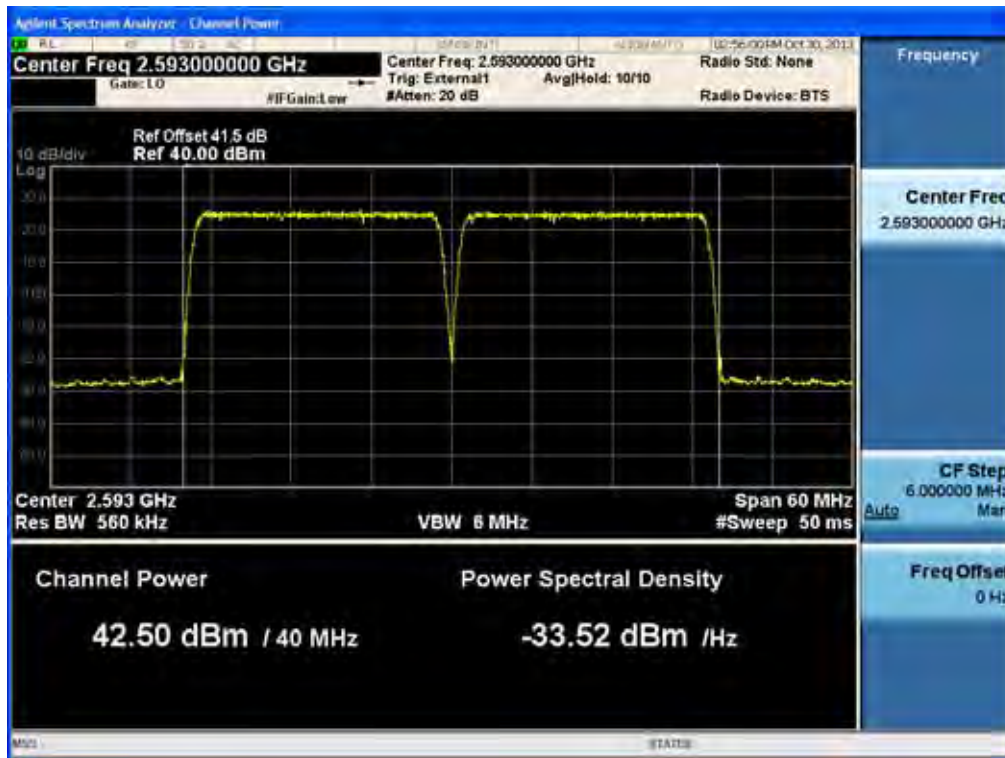


(16QAM Low Channel)

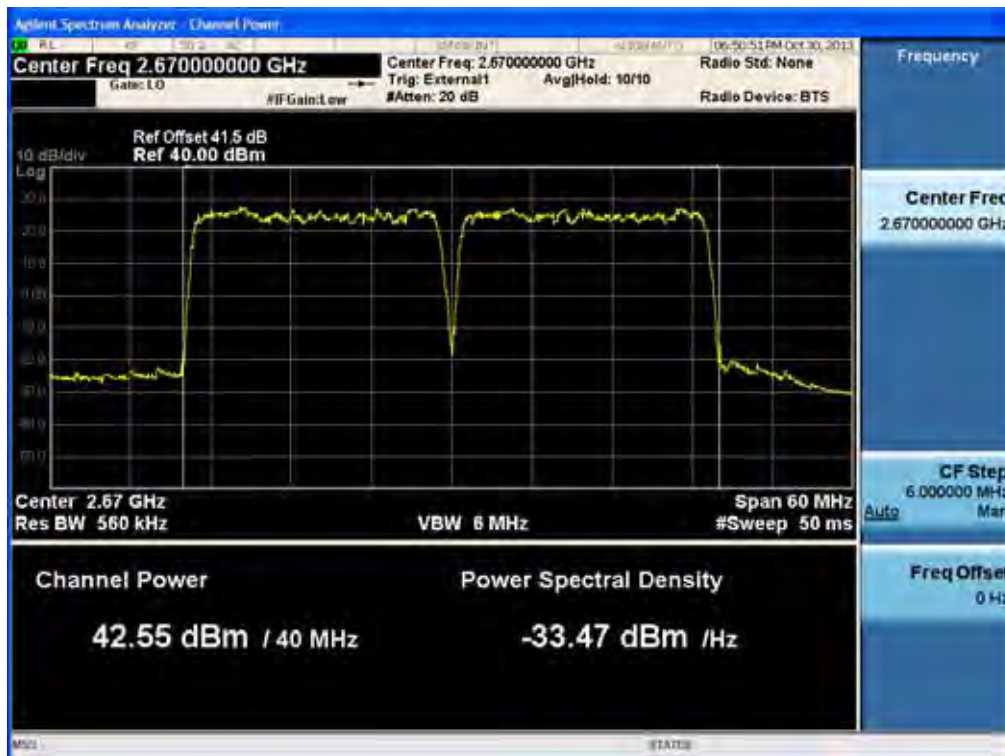


FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 101 of 473

(16QAM Middle Channel)



(16QAM High Channel)

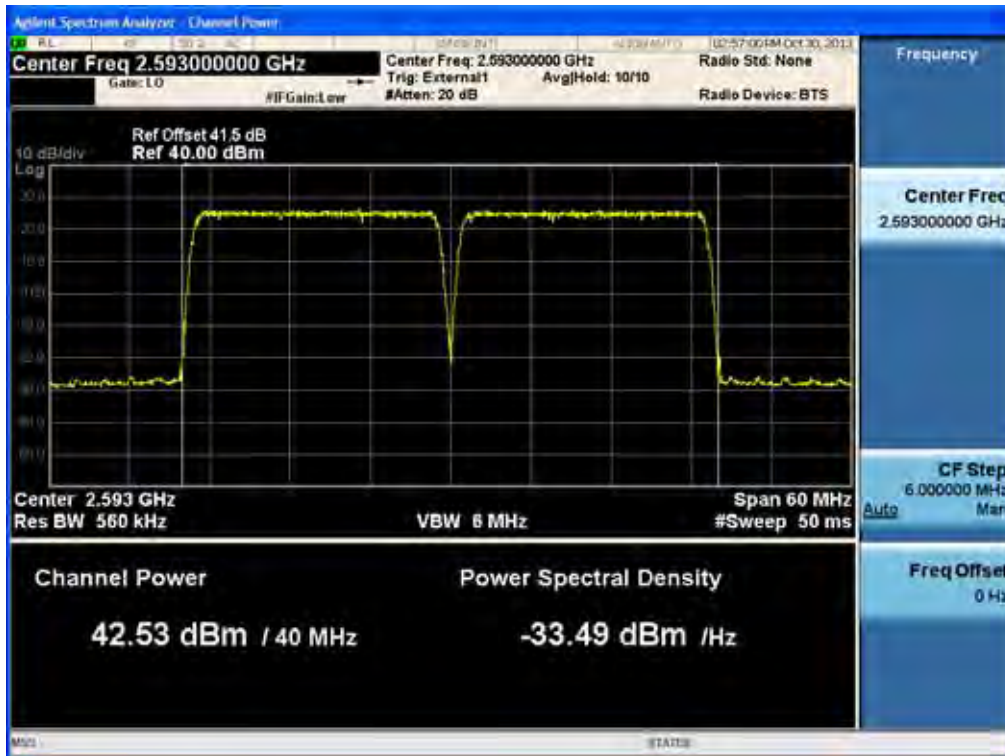


FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 102 of 473

(64QAM Low Channel)



(64QAM Middle Channel)



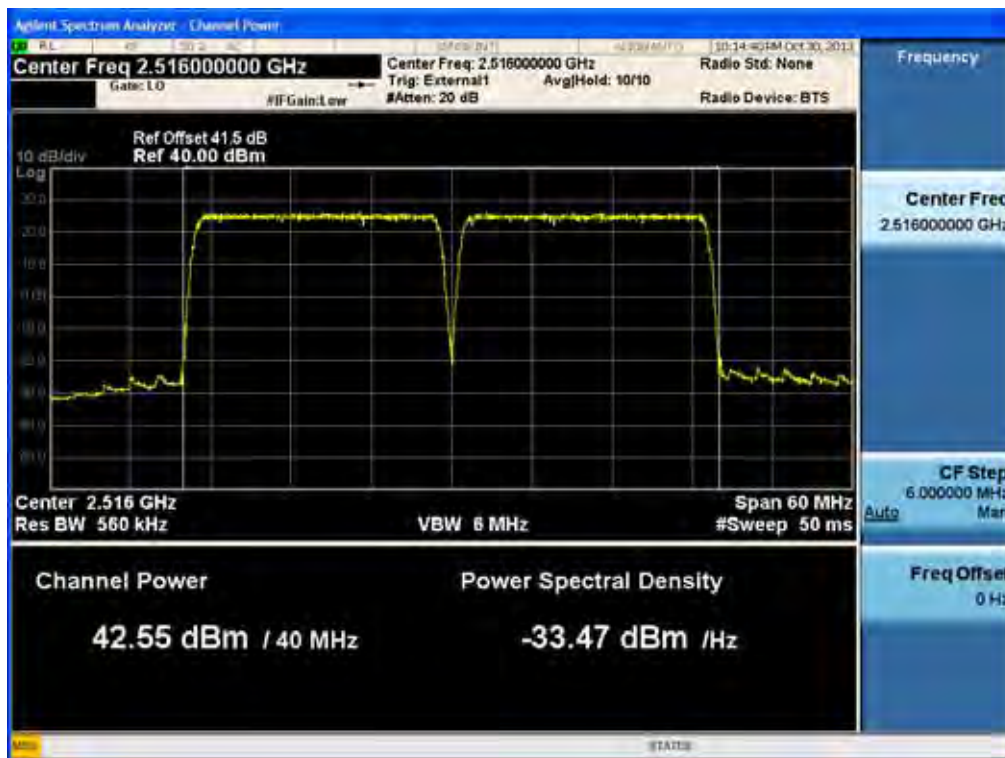
FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 103 of 473

(64QAM High Channel)



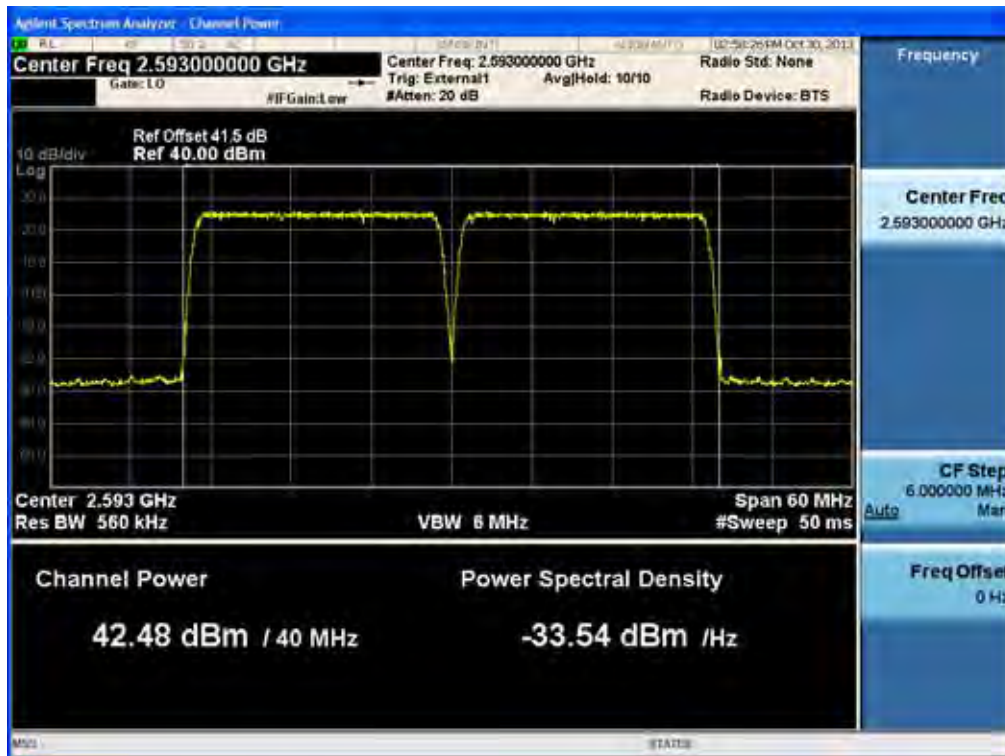
5.7.29. Plot Data for Output Port 8 (Conducted Output Power)

(QPSK Low Channel)

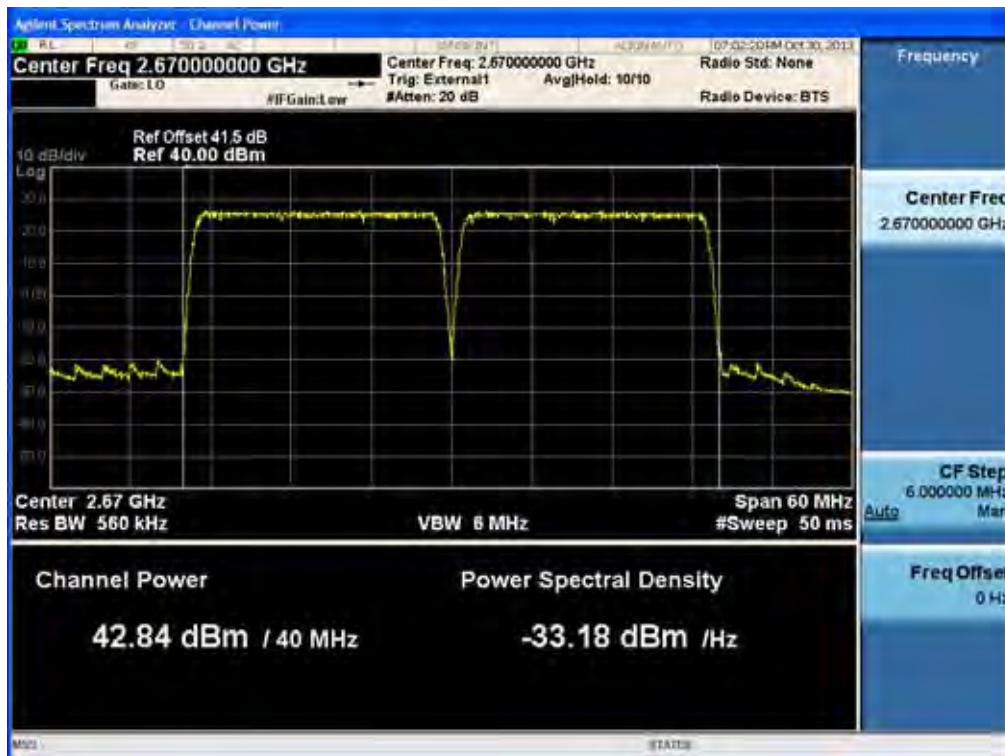


FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 104 of 473

(QPSK Middle Channel)

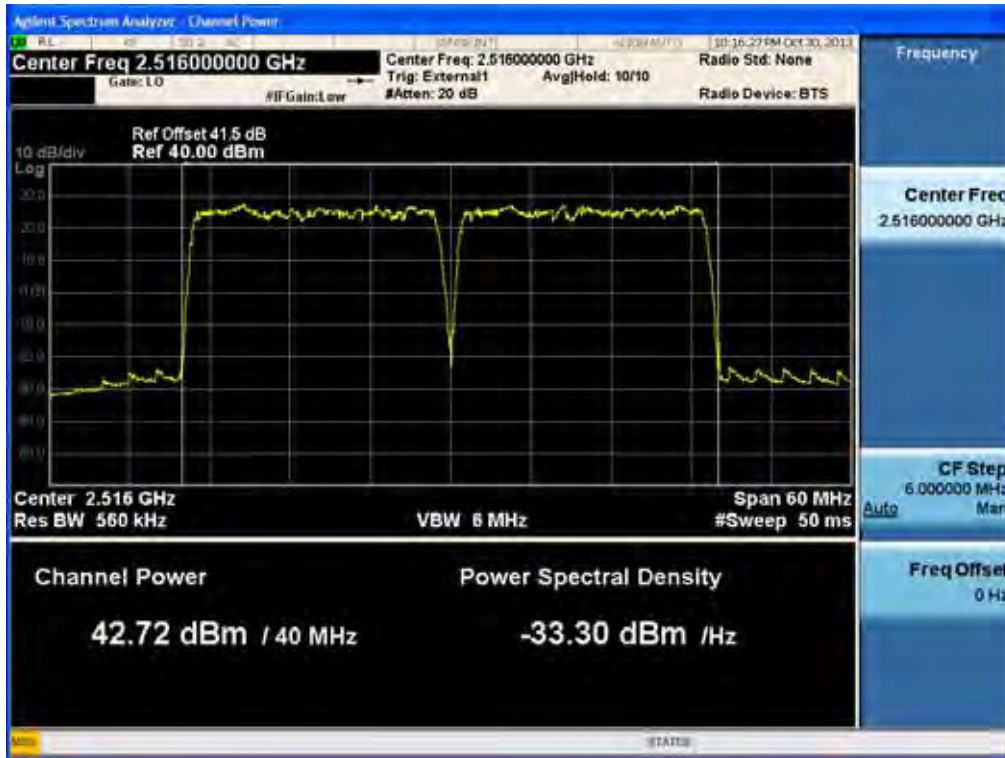


(QPSK High Channel)



FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 105 of 473

(16QAM Low Channel)



(16QAM Middle Channel)

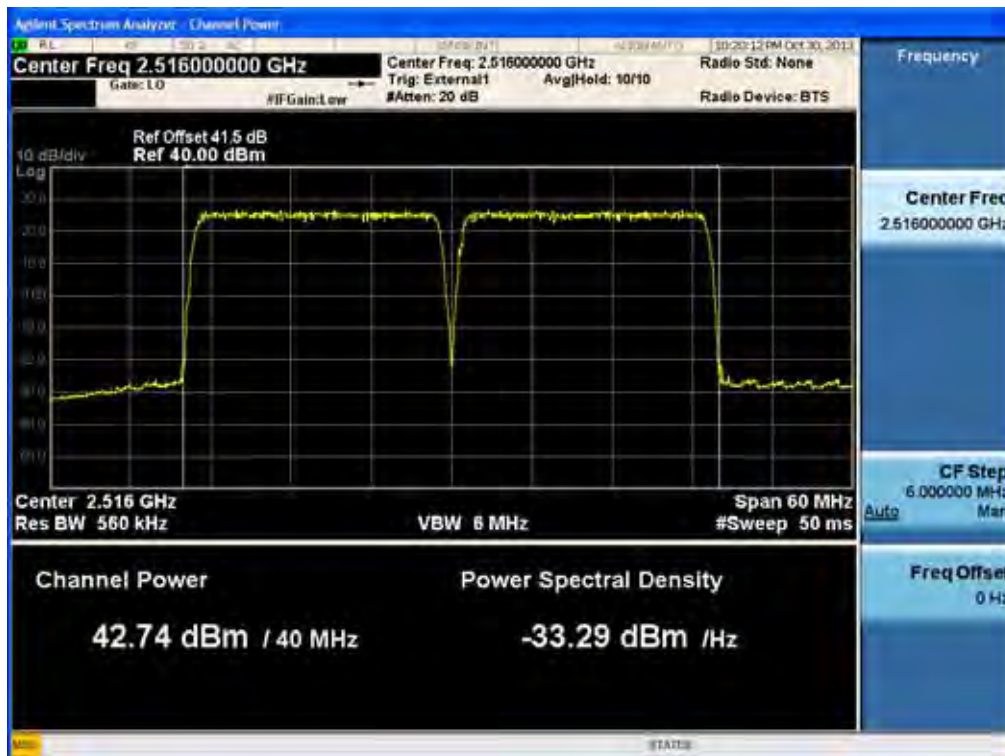


FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 106 of 473

(16QAM High Channel)

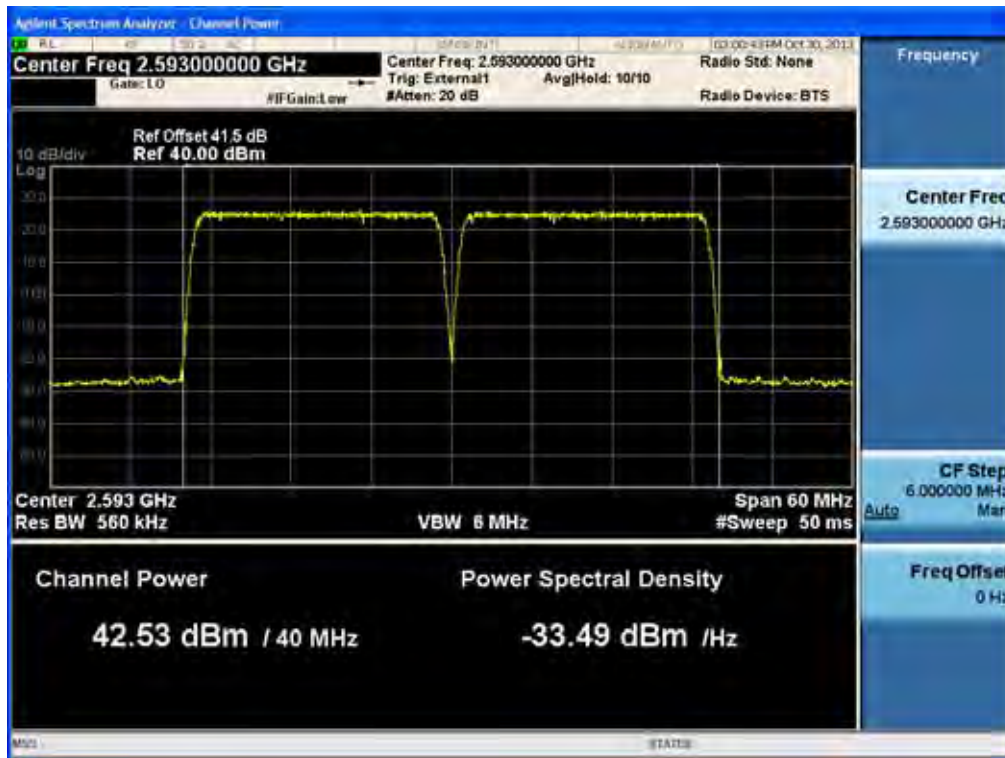


(64QAM Low Channel)

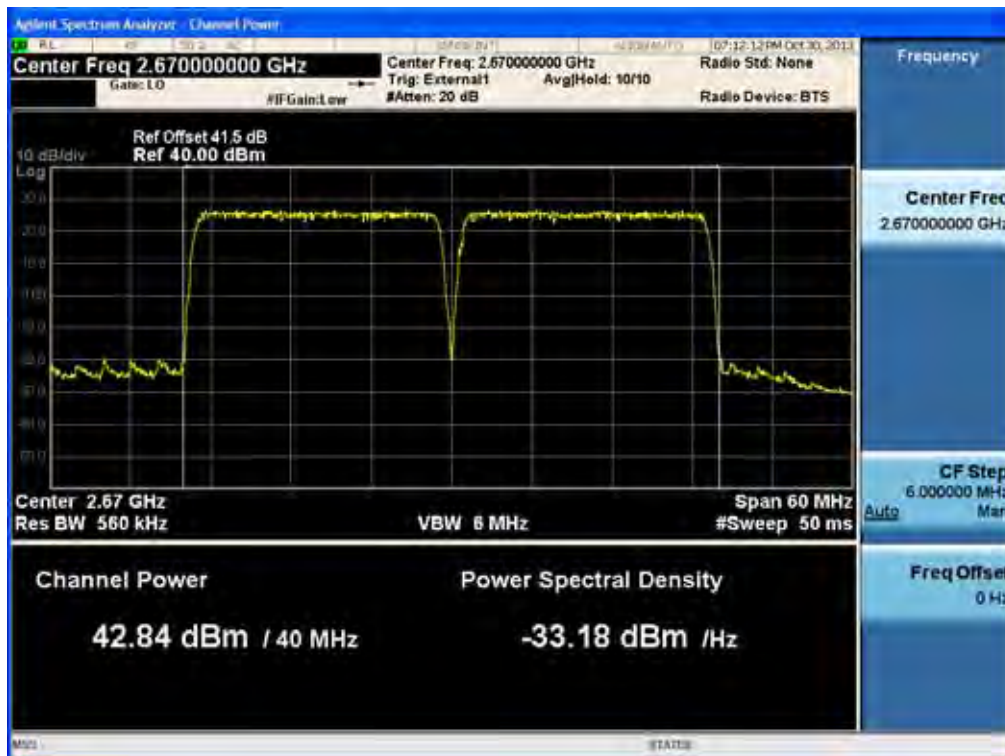


FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 107 of 473

(64QAM Middle Channel)



(64QAM High Channel)



FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 108 of 473

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

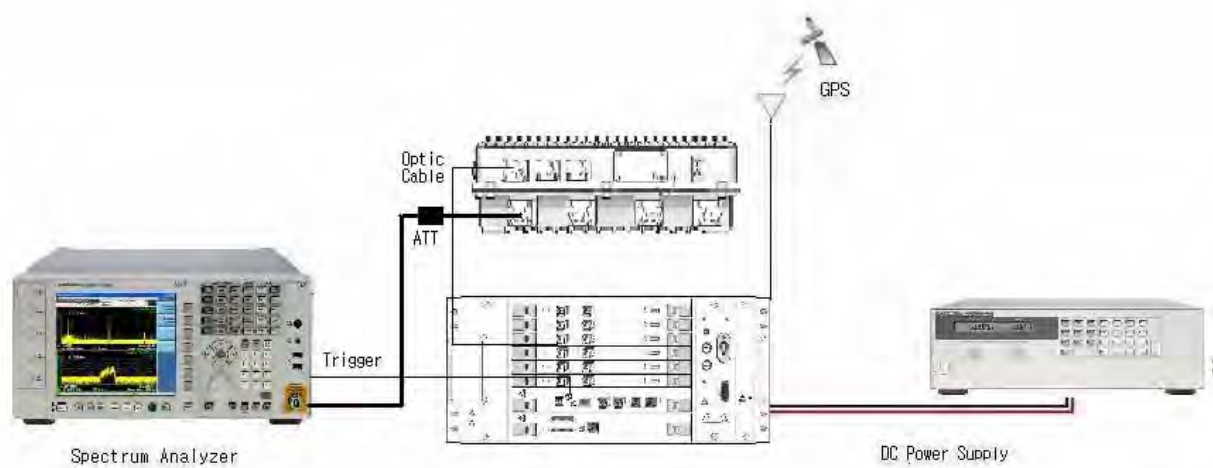
Manufacturer	Model / Equipment	Serial No.	Calibration Due
Agilent	N9020A /Signal Analyzer	US46220219	04/25/2014
Agilent	6674A / DC Power Supply	3501A00901	04/16/2014
WEINSCHL	67-30-33 / Attenuator	CC7264	08/27/2014
WEINSCHL	67-30-33 / Attenuator	CC7265	08/27/2014
WEINSCHL	AF9003-69-31 / Attenuator	11787	10/21/2014

6.3. Test Procedure

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

FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 109 of 473



6.4. Test Result
: PASS

FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 110 of 473

LTE20M(6.67W)

6.4.1. Test Data at Output Port 1

Frequency (MHz)	Occupied Bandwidth (MHz)		
	QPSK	16QAM	64QAM
2506	17.925	17.945	17.883
2593	17.887	17.893	17.901
2680	17.889	17.864	17.896

6.4.2. Test Data at Output Port 5

Frequency (MHz)	Occupied Bandwidth (MHz)		
	QPSK	16QAM	64QAM
2506	17.882	17.957	17.940
2593	17.918	18.015	17.843
2680	17.961	17.944	17.929

FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 111 of 473

LTE20M(6.67W) 3 Carrier

6.5.1. Test Data at Output Port 1

Frequency (MHz)	Occupied Bandwidth (MHz)		
	QPSK	16QAM	64QAM
2526	57.706	57.836	57.690
2593	57.505	57.691	57.667
2660	57.560	57.706	57.743

6.5.2. Test Data at Output Port 5

Frequency (MHz)	Occupied Bandwidth (MHz)		
	QPSK	16QAM	64QAM
2526	57.597	57.908	57.685
2593	57.788	57.646	57.633
2660	57.594	57.714	57.670

FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 112 of 473

LTE20M(10W)

6.6.1. Test Data at Output Port 1

Frequency (MHz)	Occupied Bandwidth (MHz)		
	QPSK	16QAM	64QAM
2506	17.869	17.986	17.892
2593	17.940	17.998	17.906
2680	17.936	17.903	17.956

6.6.2. Test Data at Output Port 2

Frequency (MHz)	Occupied Bandwidth (MHz)		
	QPSK	16QAM	64QAM
2506	17.889	17.995	17.953
2593	17.907	17.961	17.891
2680	17.934	17.940	17.979

6.6.3. Test Data at Output Port 3

Frequency (MHz)	Occupied Bandwidth (MHz)		
	QPSK	16QAM	64QAM
2506	17.908	17.950	17.936
2593	17.947	17.957	17.913
2680	17.975	17.997	17.955

6.6.4. Test Data at Output Port 4

Frequency (MHz)	Occupied Bandwidth (MHz)		
	QPSK	16QAM	64QAM
2506	17.871	17.950	17.874
2593	17.932	17.995	17.987
2680	17.941	17.961	17.950

FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 113 of 473

6.6.5. Test Data at Output Port 5

Frequency (MHz)	Occupied Bandwidth (MHz)		
	QPSK	16QAM	64QAM
2506	17.937	17.974	17.903
2593	17.909	17.918	17.913
2680	17.900	17.929	17.878

6.6.6. Test Data at Output Port 6

Frequency (MHz)	Occupied Bandwidth (MHz)		
	QPSK	16QAM	64QAM
2506	17.905	17.914	17.939
2593	17.869	17.879	17.937
2680	17.920	17.957	17.905

6.6.7. Test Data at Output Port 7

Frequency (MHz)	Occupied Bandwidth (MHz)		
	QPSK	16QAM	64QAM
2506	17.899	17.883	17.964
2593	17.859	17.949	17.969
2680	17.936	17.962	17.917

6.6.8. Test Data at Output Port 8

Frequency (MHz)	Occupied Bandwidth (MHz)		
	QPSK	16QAM	64QAM
2506	17.900	17.959	17.919
2593	17.920	17.991	17.942
2680	17.932	17.953	17.962

FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 114 of 473

LTE20M(10W) 2 Carrier

6.7.1. Test Data at Output Port 1

Frequency (MHz)	Occupied Bandwidth (MHz)		
	QPSK	16QAM	64QAM
2516	37.682	37.785	37.763
2593	37.765	38.010	37.730
2670	37.868	37.935	37.811

6.7.2. Test Data at Output Port 2

Frequency (MHz)	Occupied Bandwidth (MHz)		
	QPSK	16QAM	64QAM
2516	37.760	37.881	37.797
2593	37.747	37.821	37.737
2670	37.778	37.829	37.808

6.7.3. Test Data at Output Port 3

Frequency (MHz)	Occupied Bandwidth (MHz)		
	QPSK	16QAM	64QAM
2516	37.770	37.765	37.779
2593	37.806	37.776	37.776
2670	37.712	37.865	37.772

6.7.4. Test Data at Output Port 4

Frequency (MHz)	Occupied Bandwidth (MHz)		
	QPSK	16QAM	64QAM
2516	37.748	37.875	37.823
2593	37.875	37.837	37.832
2670	37.778	37.747	37.834

FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 115 of 473

6.7.5. Test Data at Output Port 5

Frequency (MHz)	Occupied Bandwidth (MHz)		
	QPSK	16QAM	64QAM
2516	37.727	37.943	37.787
2593	37.684	37.697	37.849
2670	37.826	37.811	37.846

6.7.6. Test Data at Output Port 6

Frequency (MHz)	Occupied Bandwidth (MHz)		
	QPSK	16QAM	64QAM
2516	37.763	37.949	37.707
2593	37.811	37.813	37.834
2670	37.781	37.844	37.827

6.7.7. Test Data at Output Port 7

Frequency (MHz)	Occupied Bandwidth (MHz)		
	QPSK	16QAM	64QAM
2516	37.829	37.821	37.758
2593	37.828	37.788	37.828
2670	37.754	37.936	37.759

6.7.8. Test Data at Output Port 8

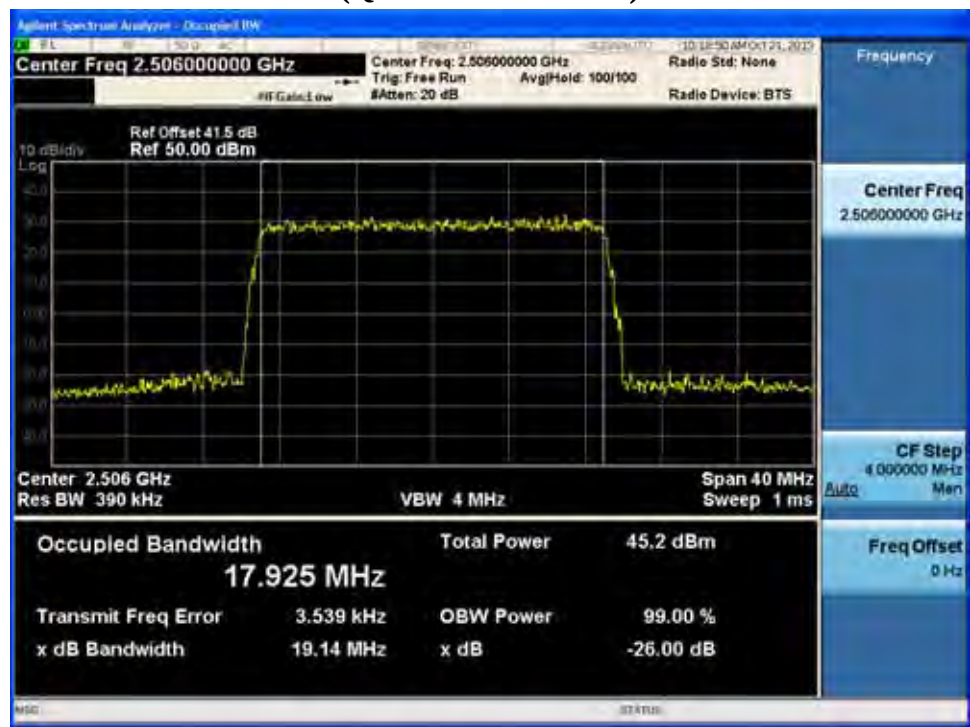
Frequency (MHz)	Occupied Bandwidth (MHz)		
	QPSK	16QAM	64QAM
2516	37.756	37.917	37.724
2593	37.784	37.876	37.744
2670	37.830	37.941	37.746

FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 116 of 473

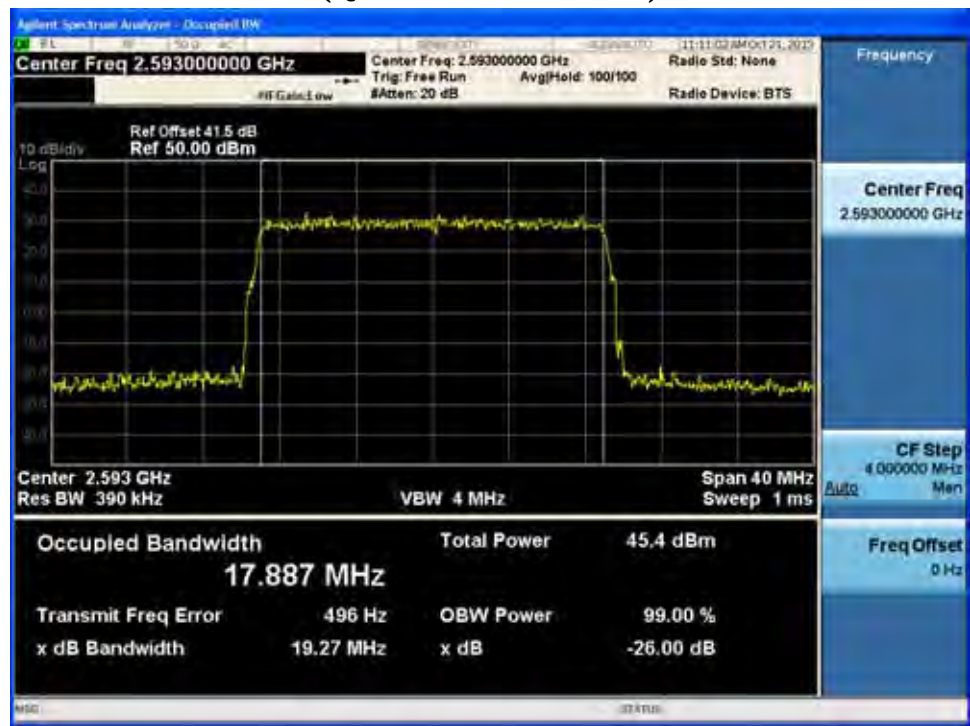
LTE20M(6.67W)

6.7.9. Test Plot at Output Port 1

(QPSK Low Channel)

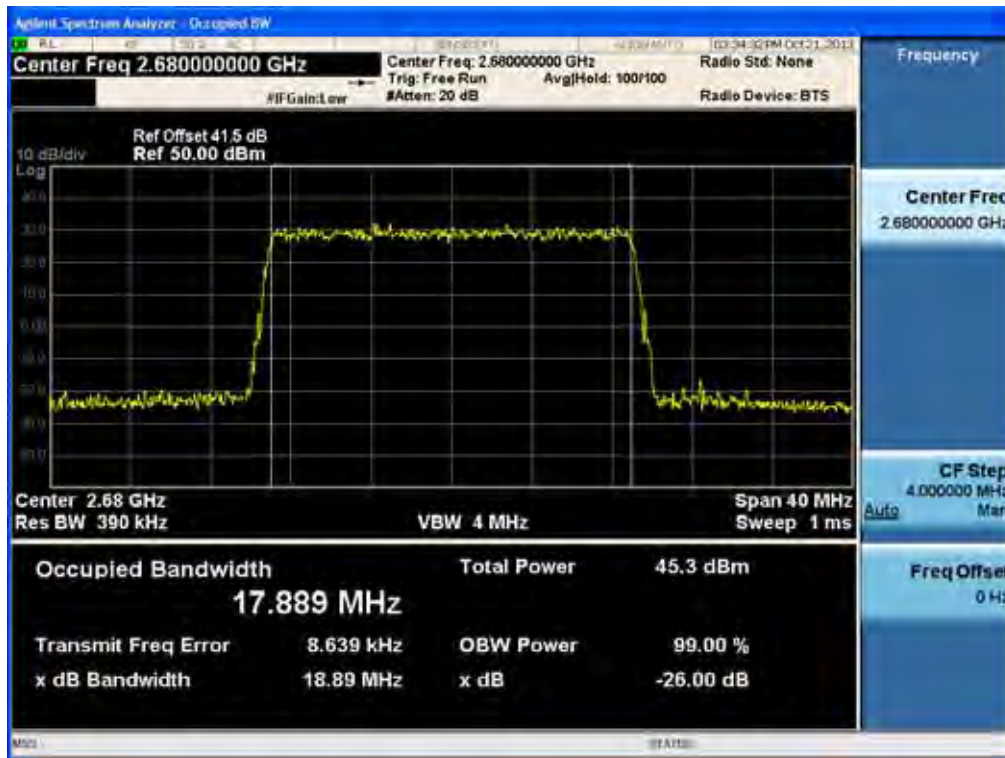


(QPSK Middle Channel)

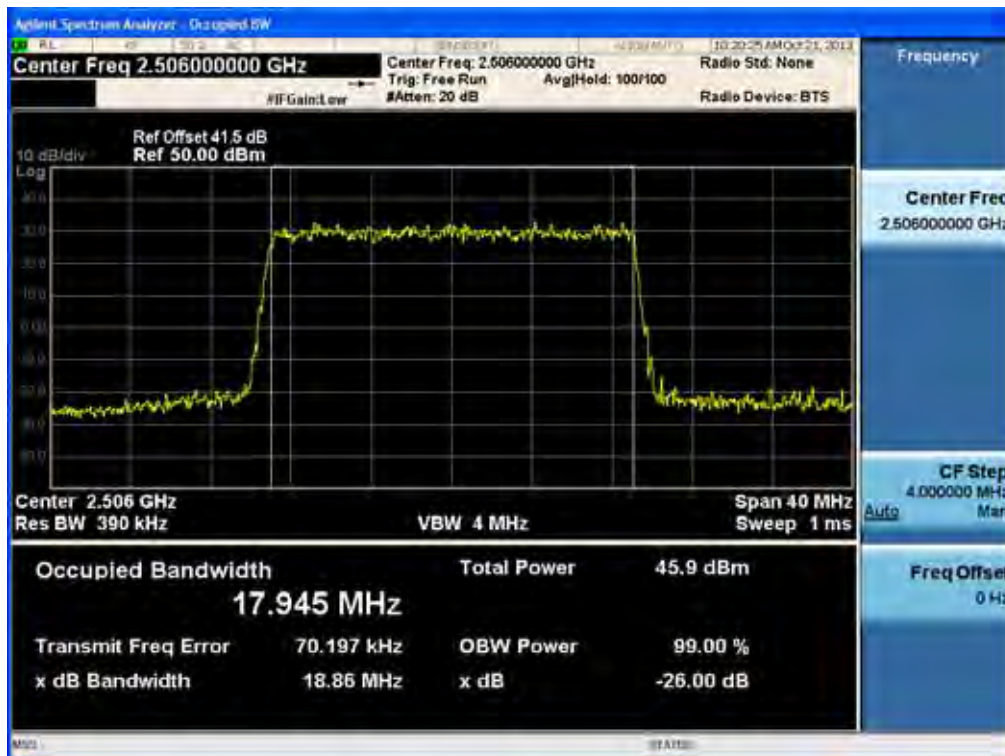


FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 117 of 473

(QPSK High Channel)

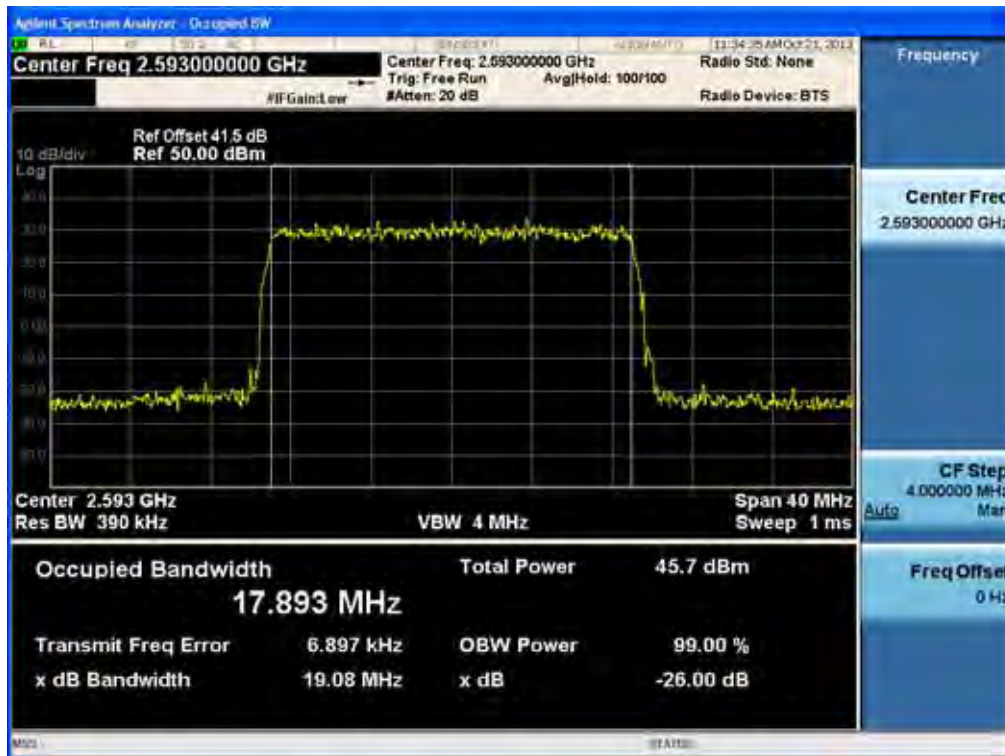


(16QAM Low Channel)

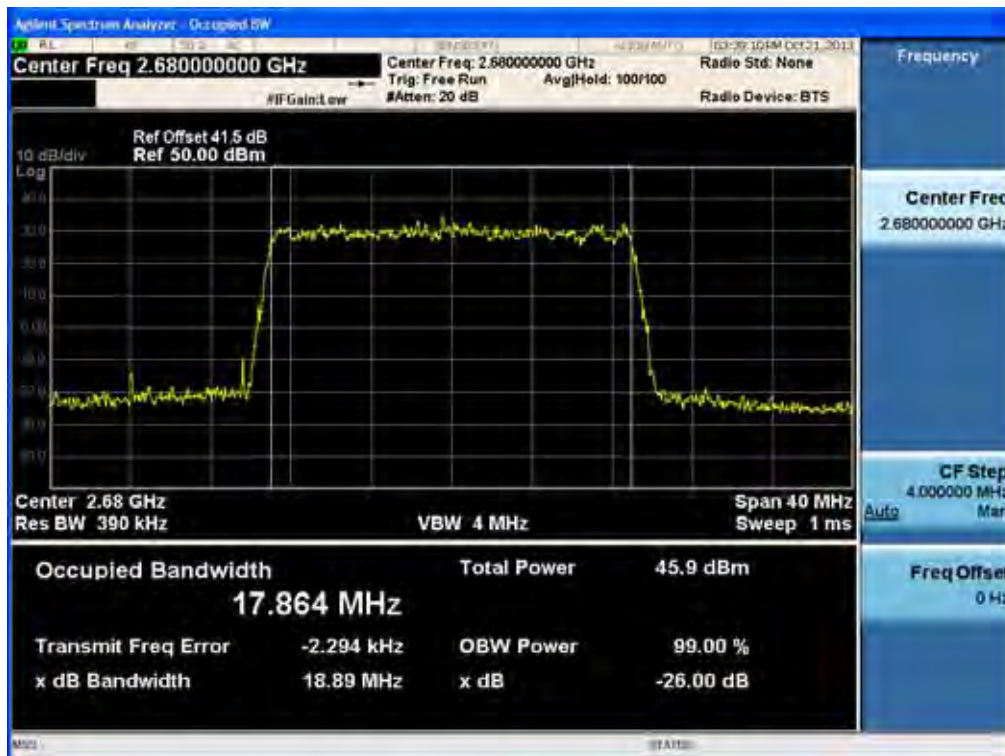


FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 118 of 473

(16QAM Middle Channel)

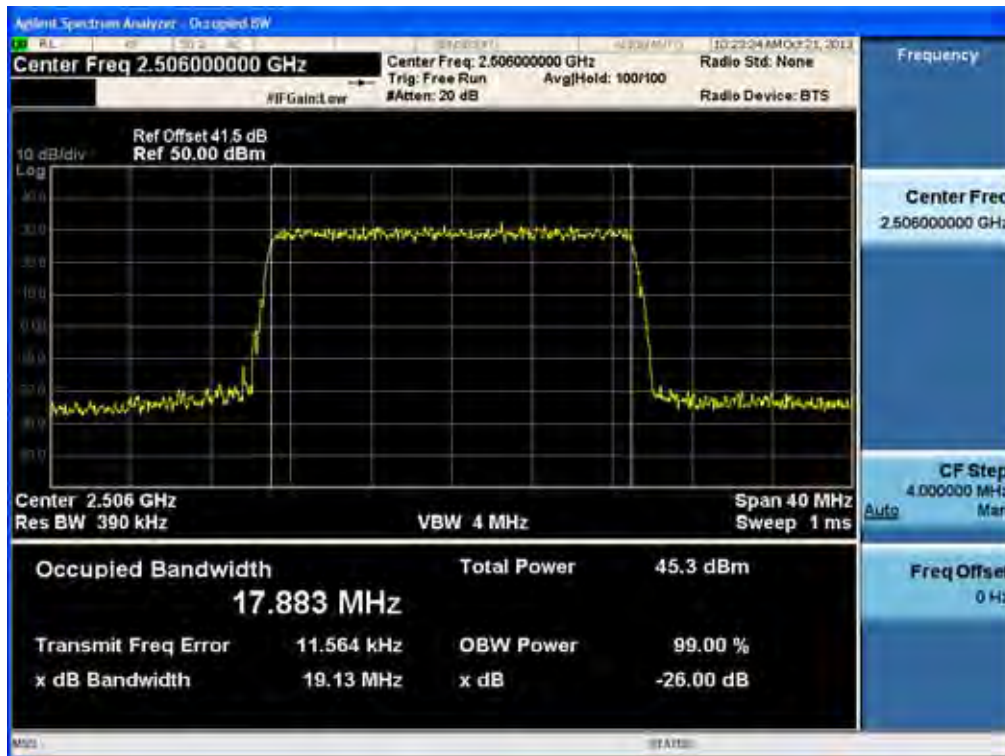


(16QAM High Channel)

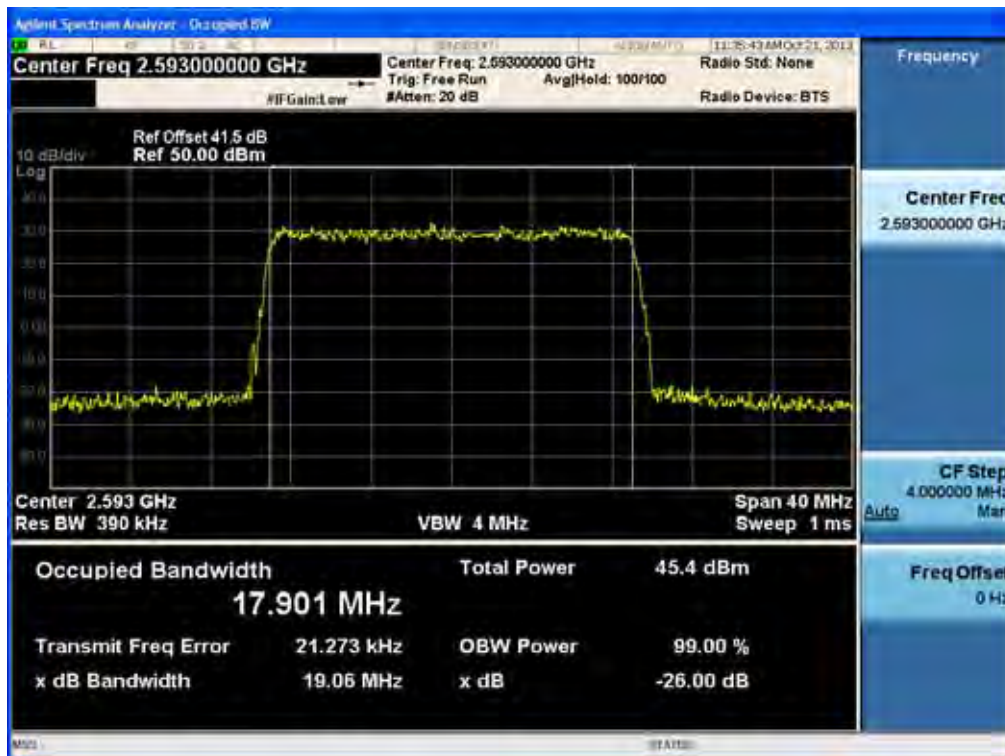


FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 119 of 473

(64QAM Low Channel)

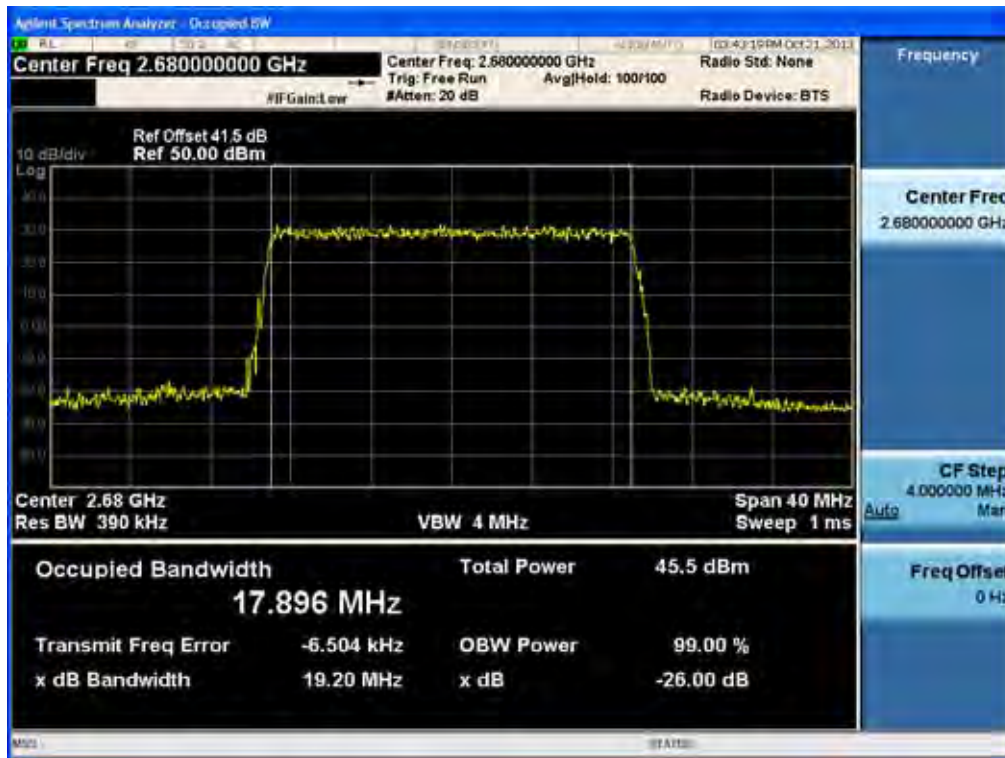


(64QAM Middle Channel)



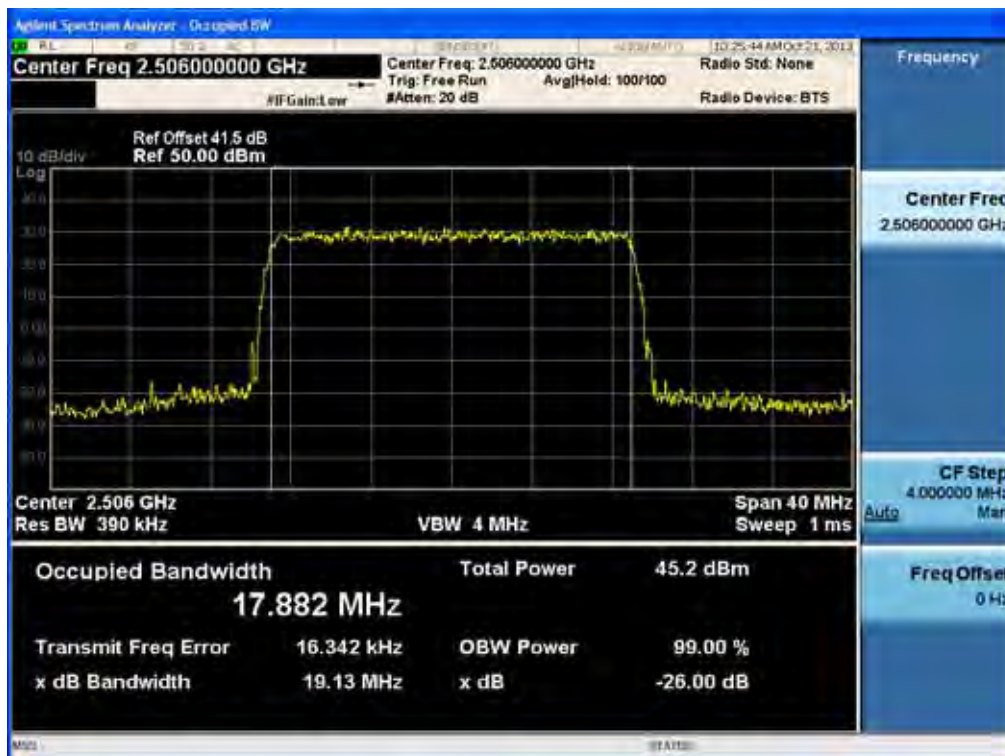
FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 120 of 473

(64QAM High Channel)



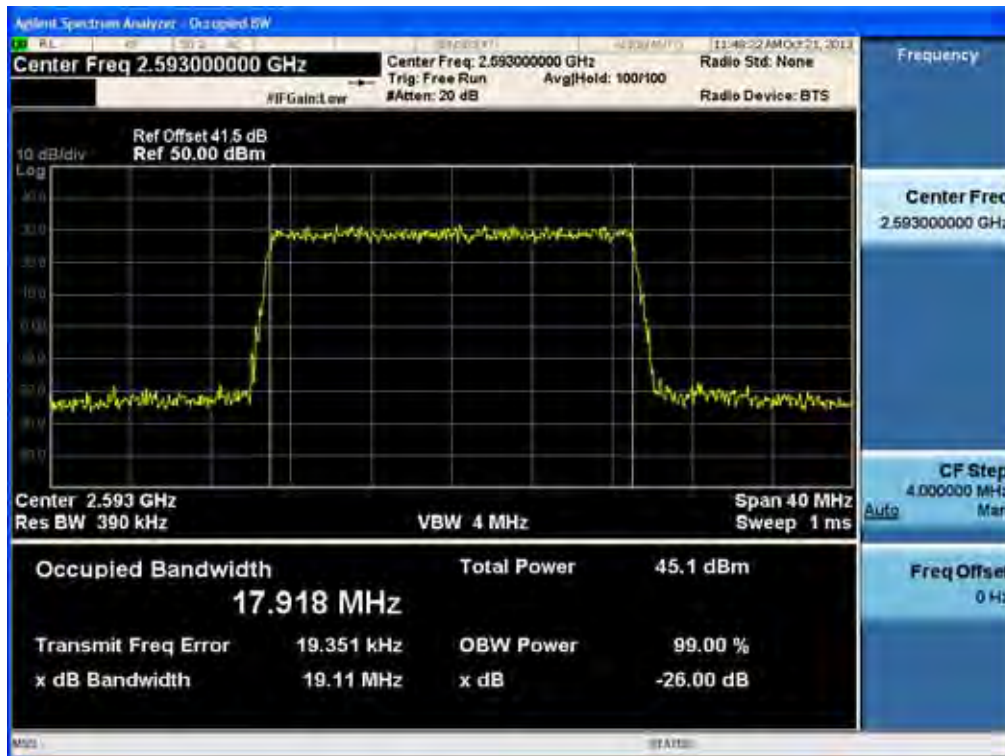
6.7.10. Test Plot at Output Port 5

(QPSK Low Channel)

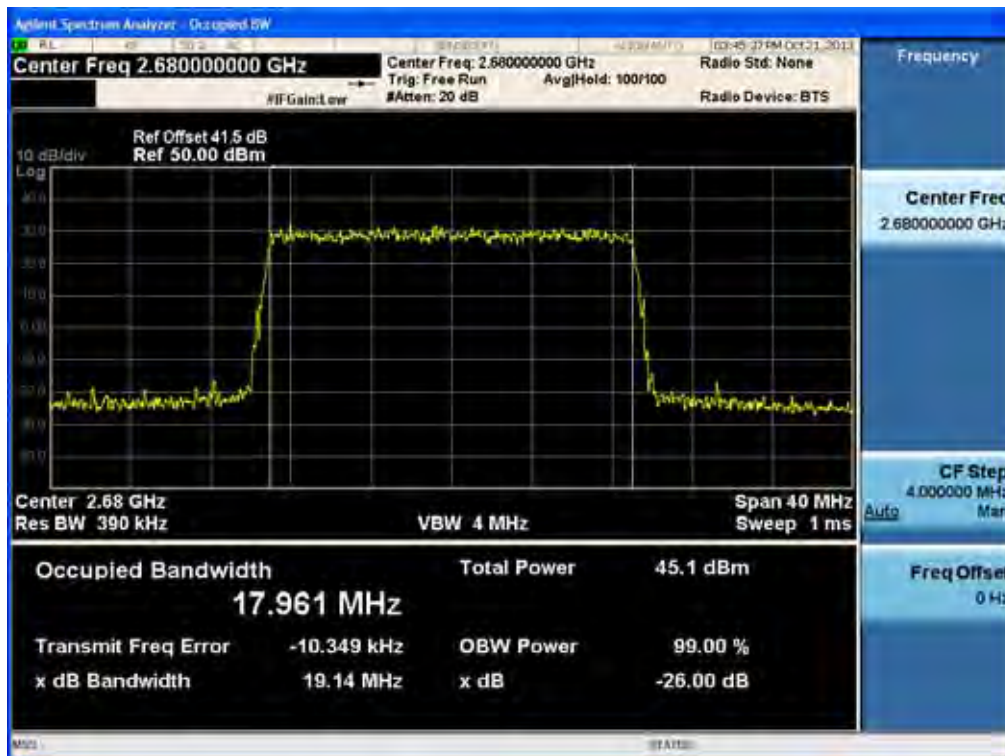


FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 121 of 473

(QPSK Middle Channel)

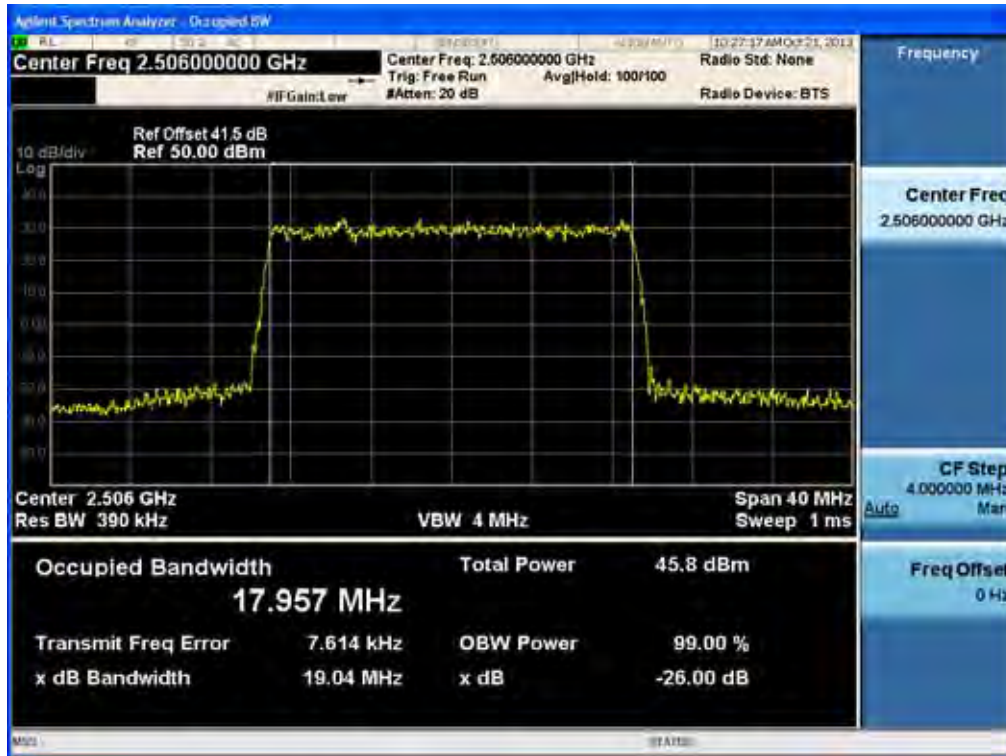


(QPSK High Channel)

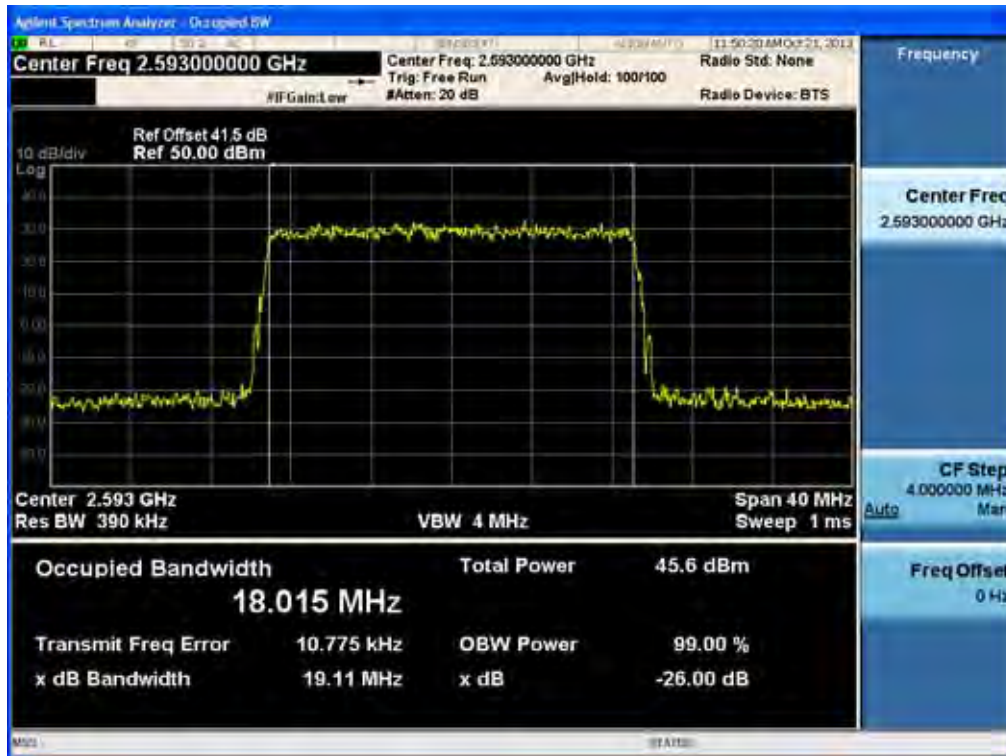


FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 122 of 473

(16QAM Low Channel)

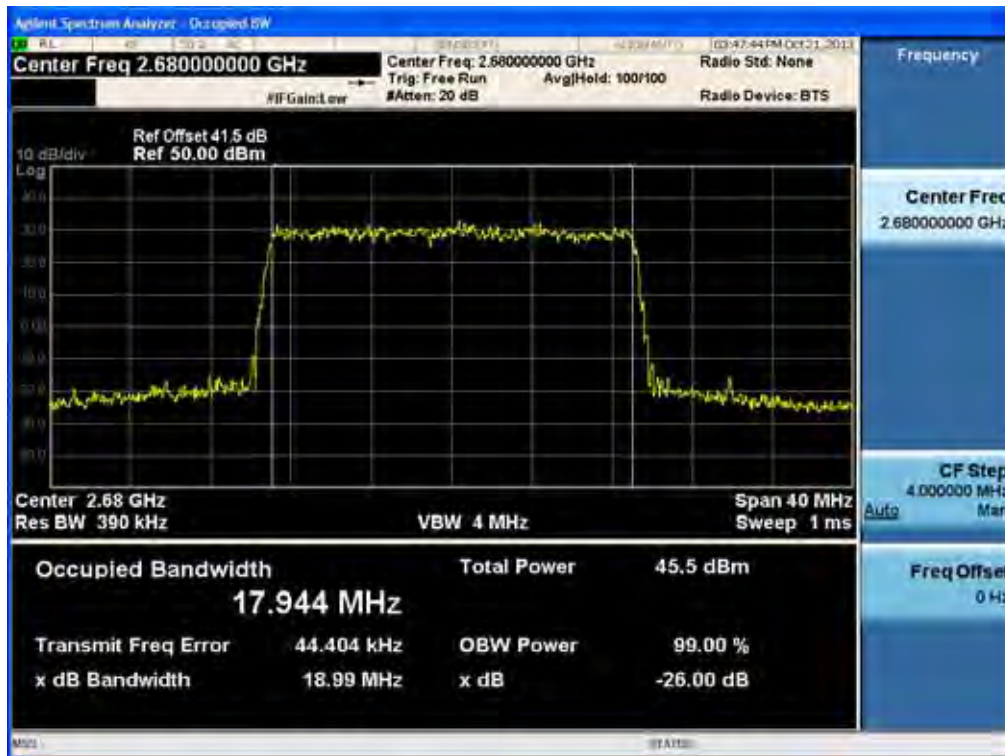


(16QAM Middle Channel)

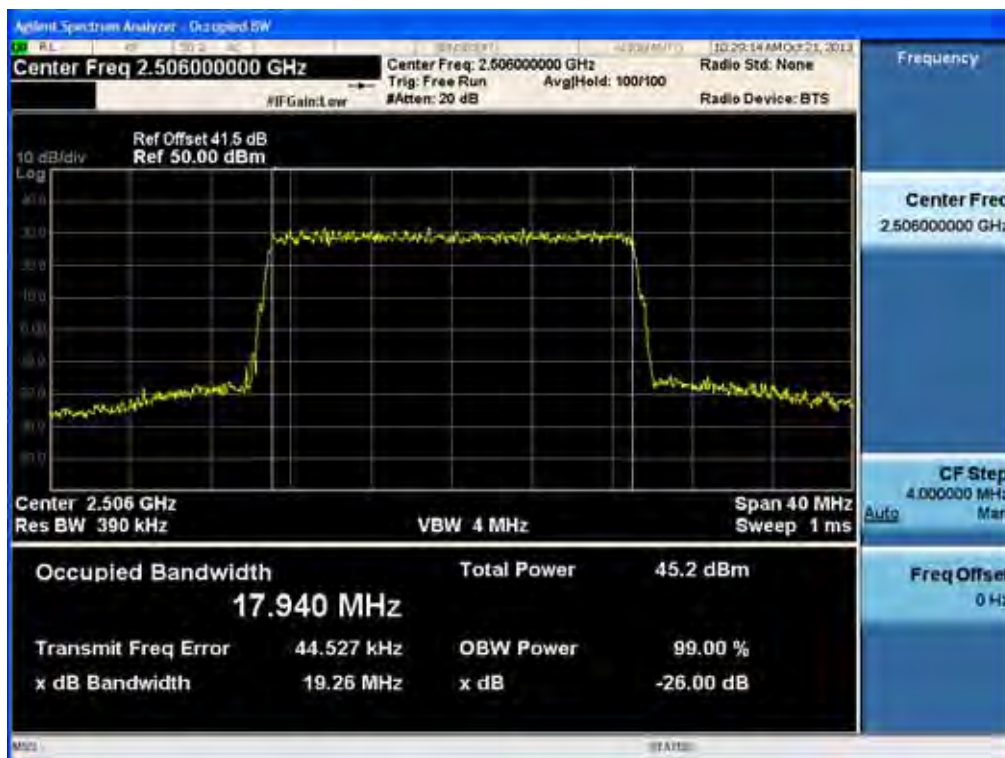


FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 123 of 473

(16QAM High Channel)

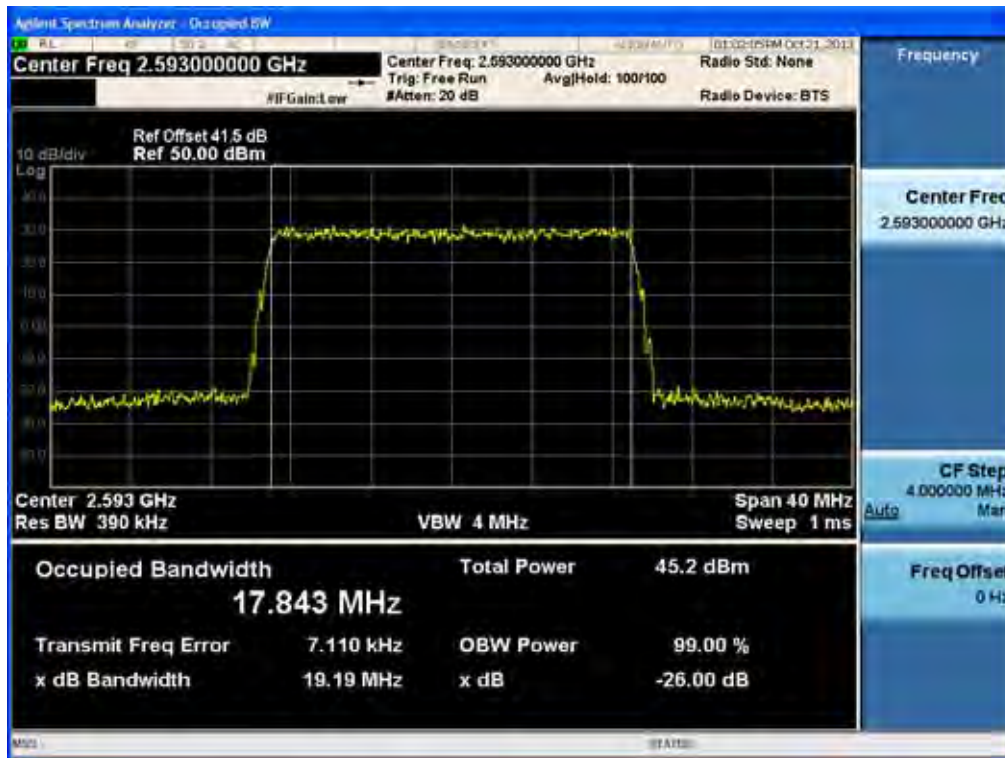


(64QAM Low Channel)

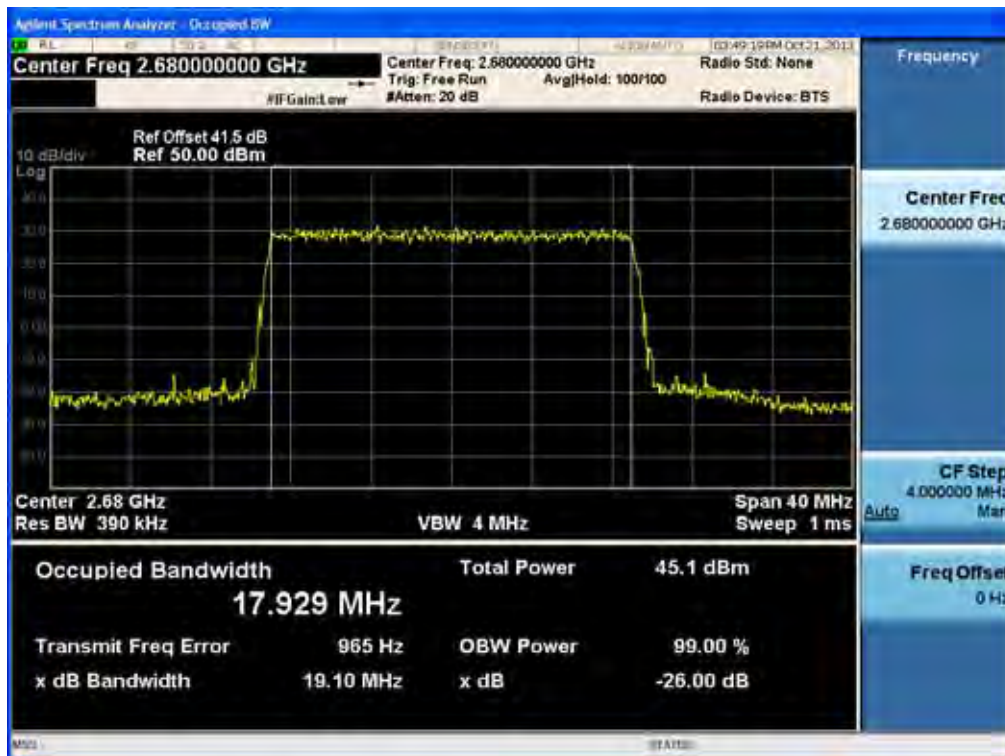


FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 124 of 473

(64QAM Middle Channel)



(64QAM High Channel)

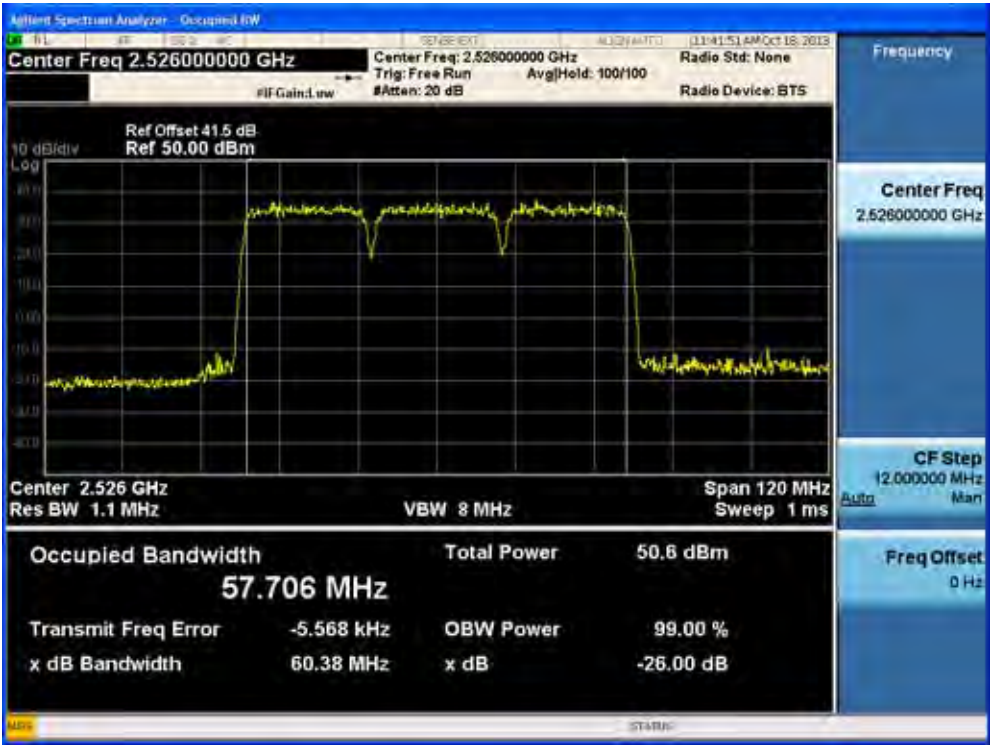


FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 125 of 473

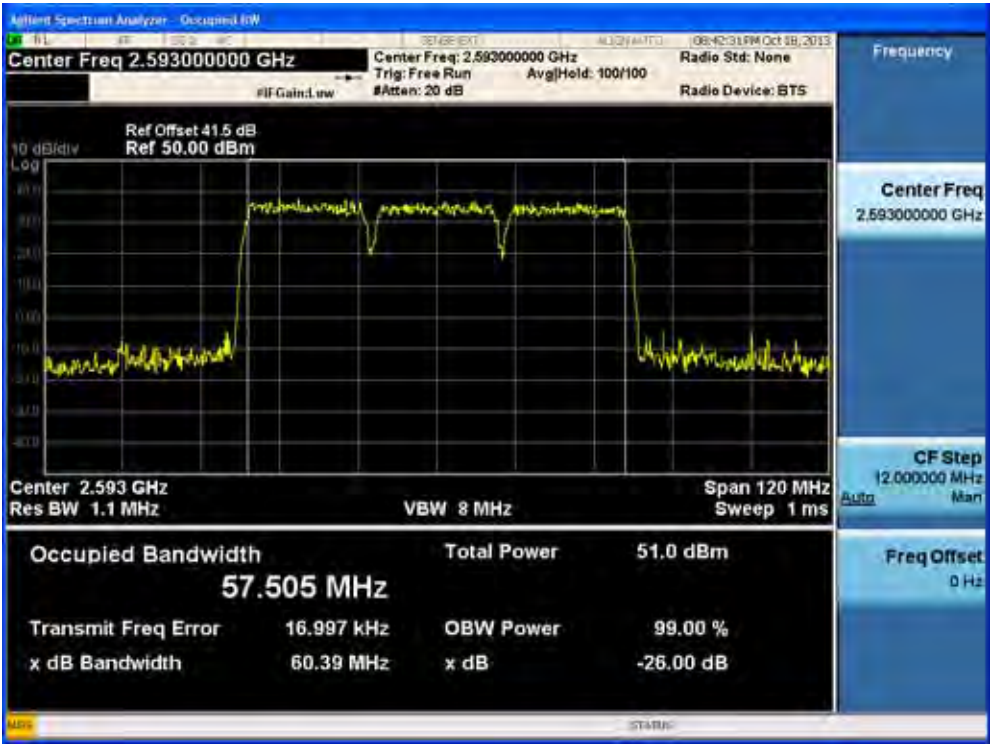
LTE20M(6.67W) 3 Carrier

6.7.11. Test Plot at Output Port 1

(QPSK Low Channel)

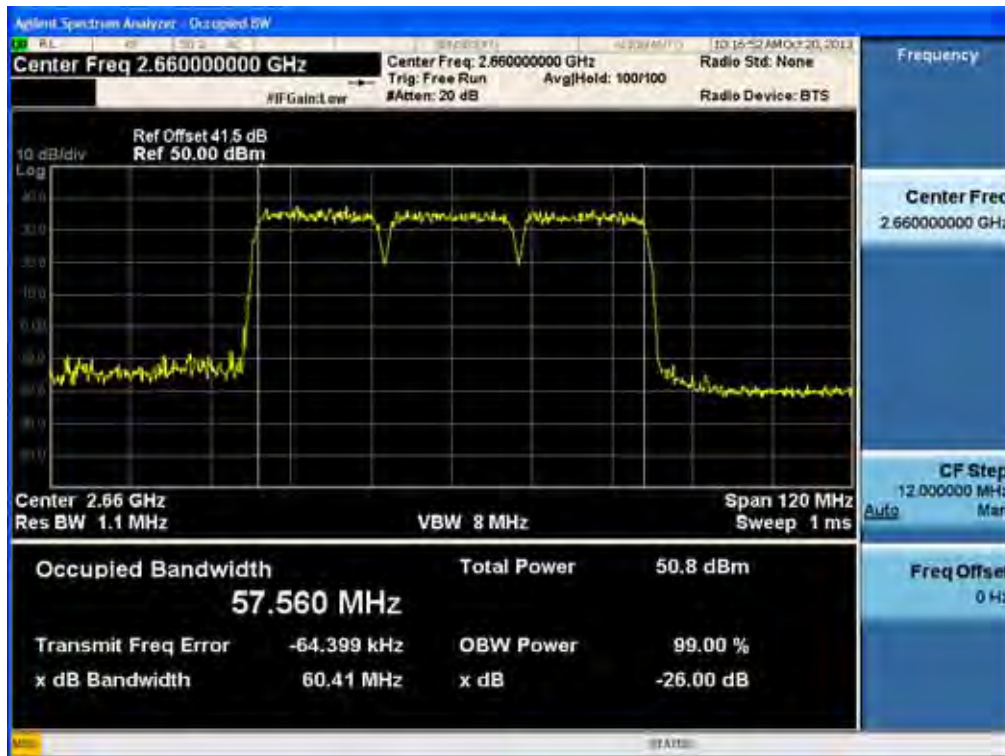


(QPSK Middle Channel)

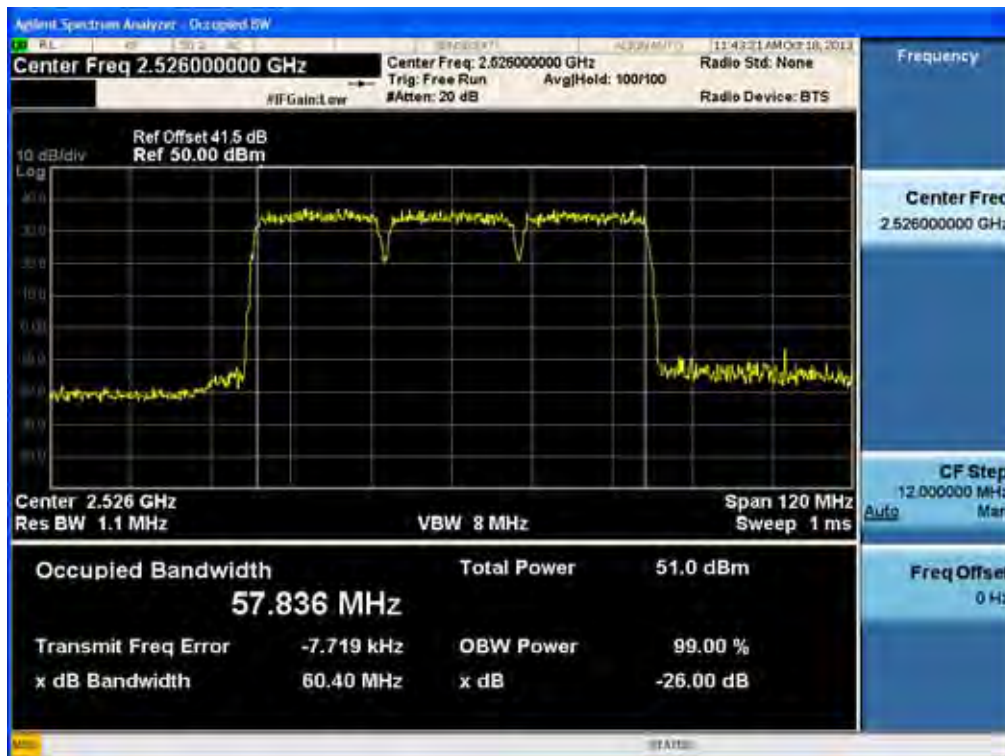


FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 126 of 473

(QPSK High Channel)

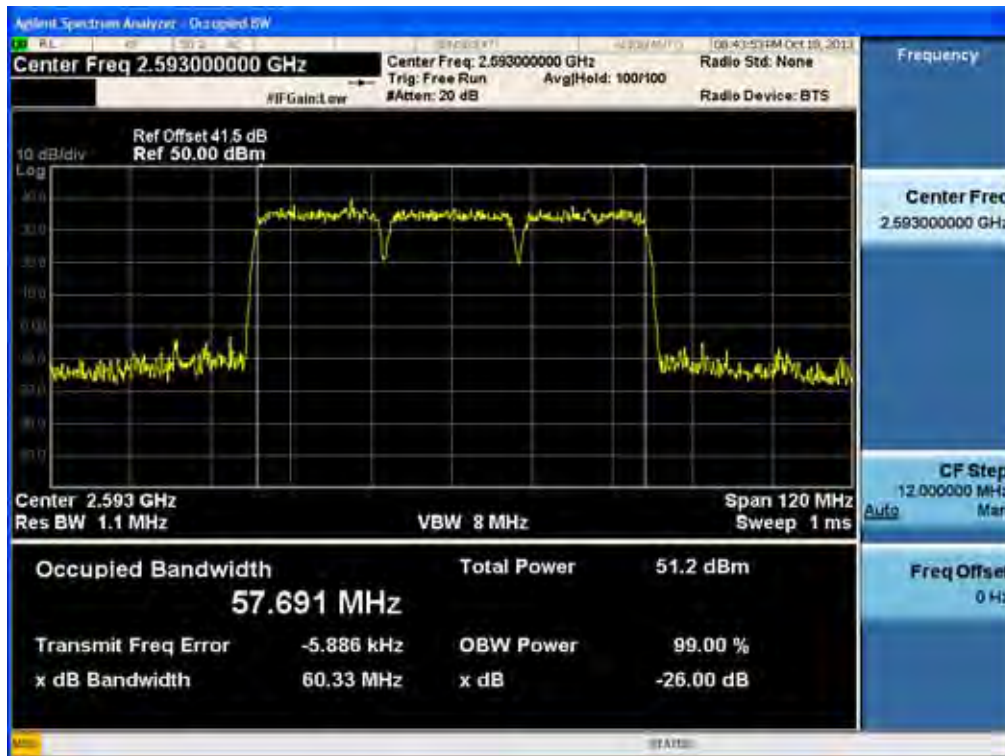


(16QAM Low Channel)



FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 127 of 473

(16QAM Middle Channel)

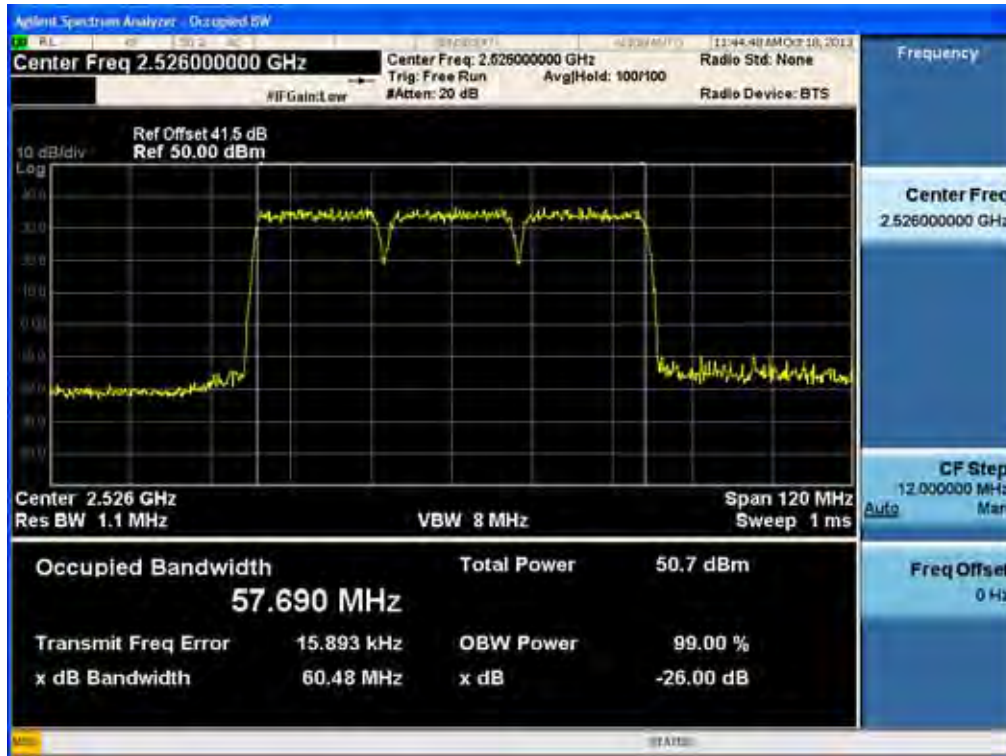


(16QAM High Channel)

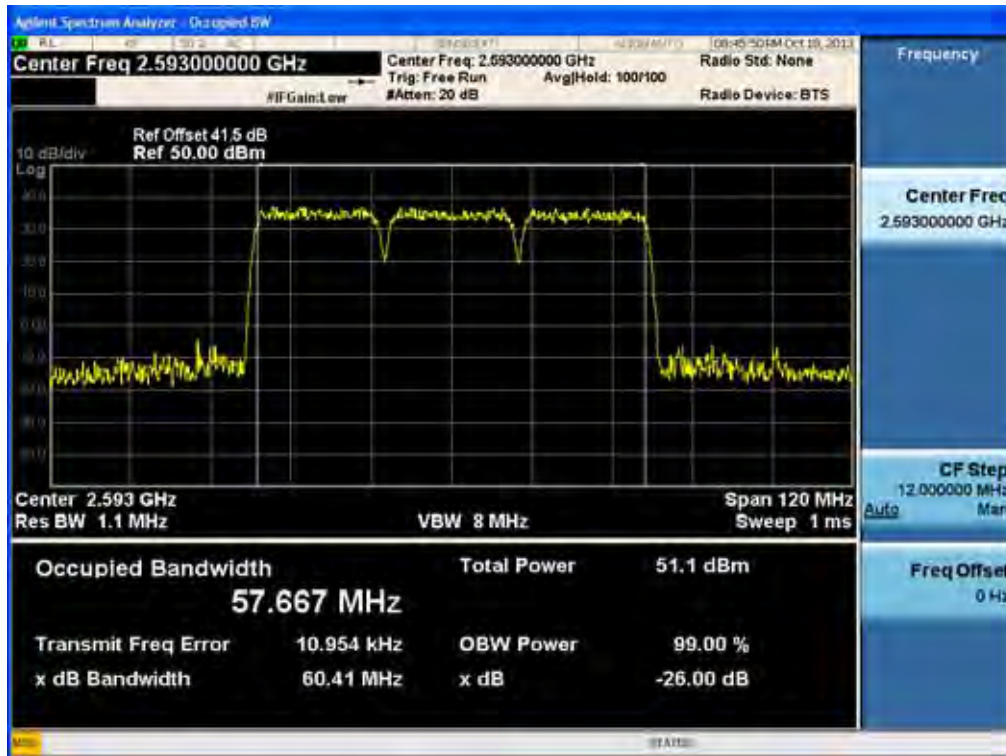


FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 128 of 473

(64QAM Low Channel)

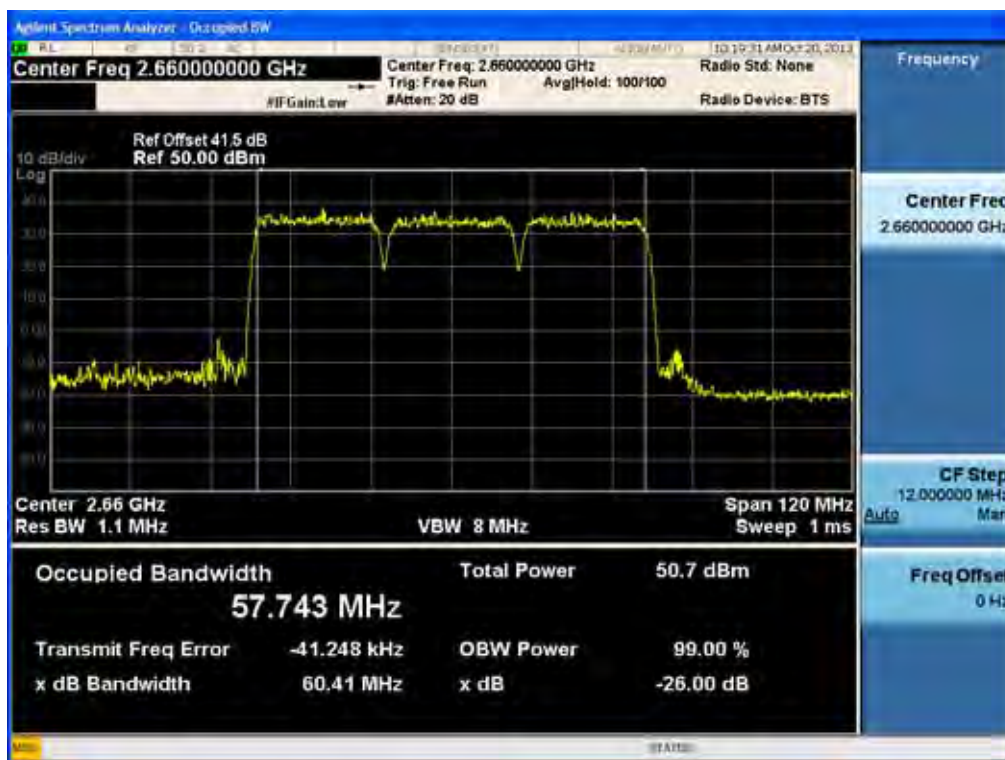


(64QAM Middle Channel)



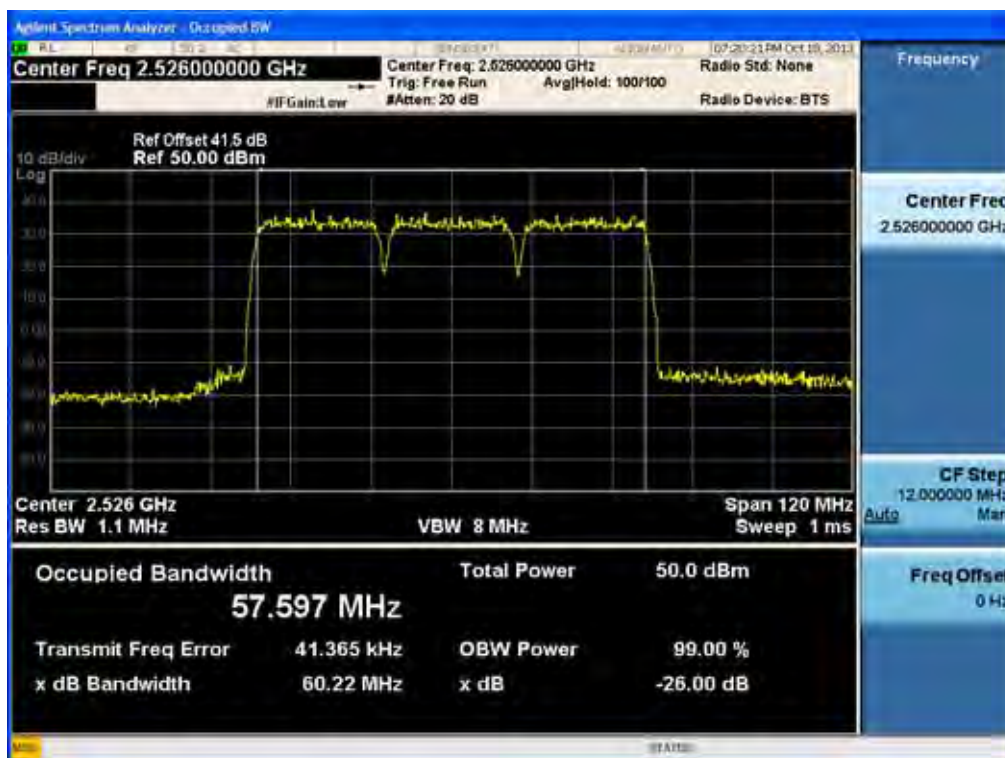
FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 129 of 473

(64QAM High Channel)



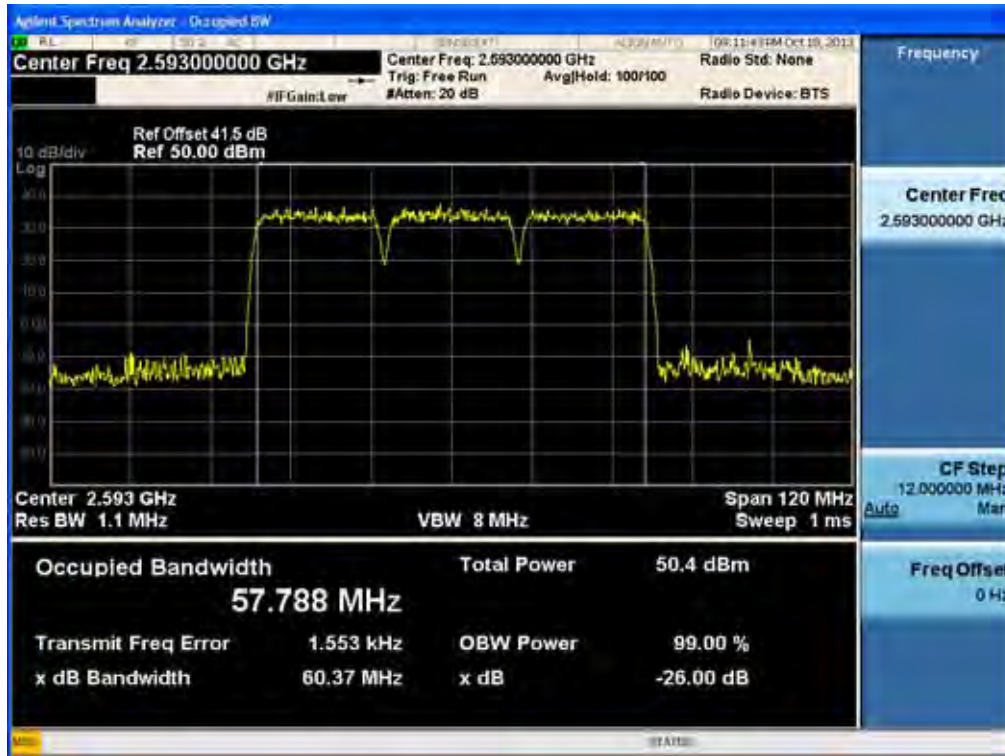
6.7.12. Test Plot at Output Port 5

(QPSK Low Channel)

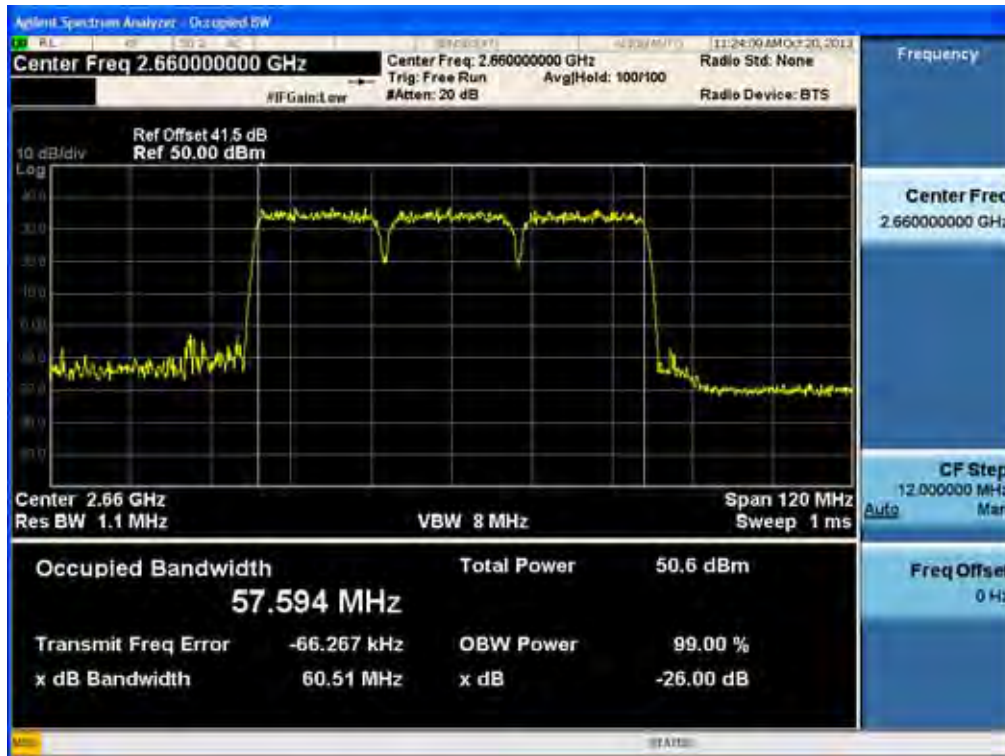


FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 130 of 473

(QPSK Middle Channel)



(QPSK High Channel)

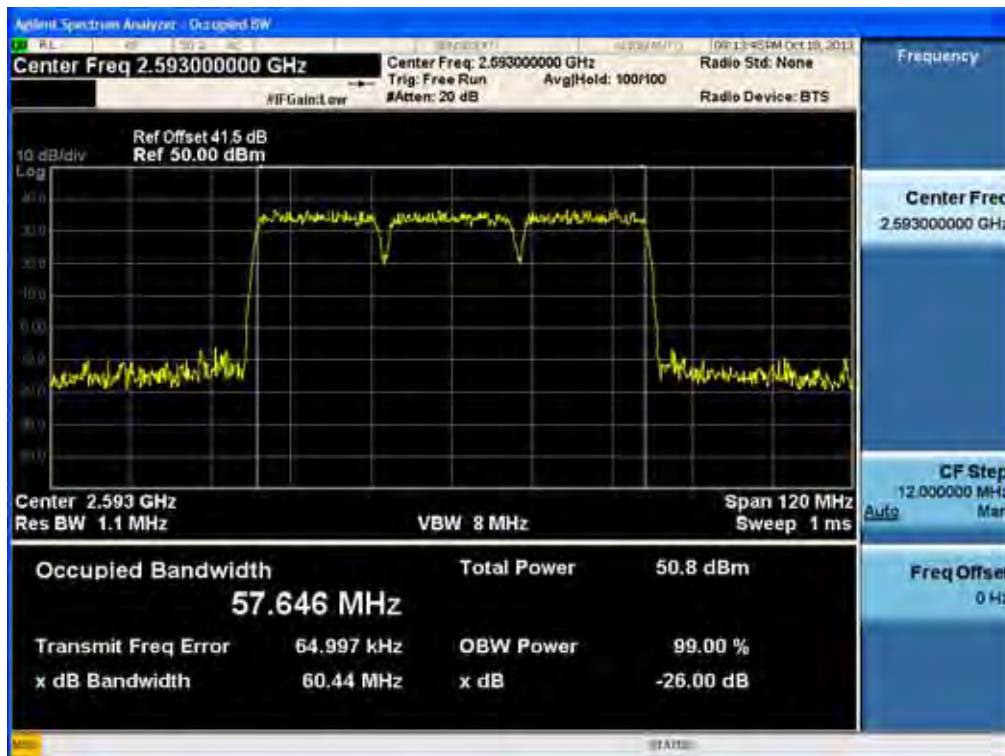


FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 131 of 473

(16QAM Low Channel)

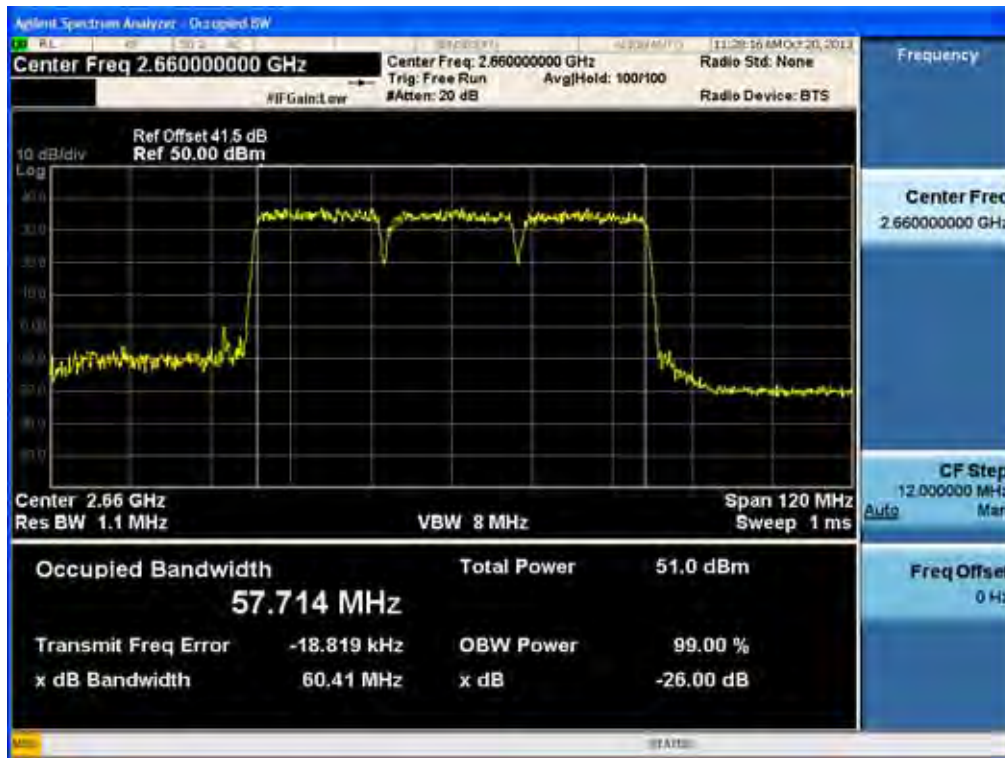


(16QAM Middle Channel)

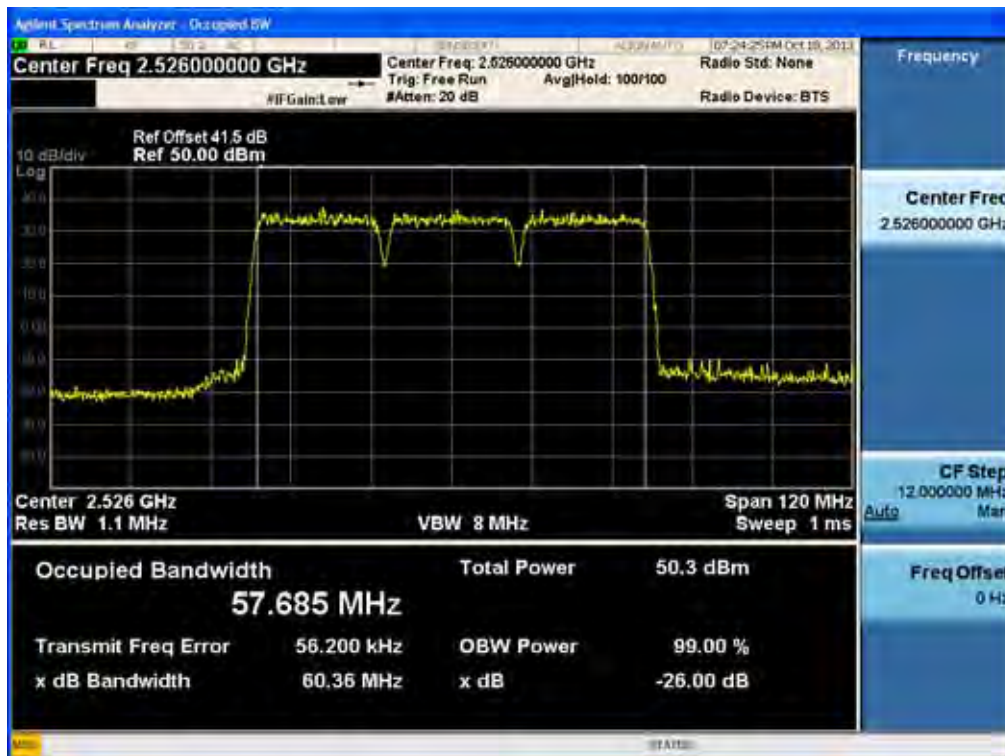


FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 132 of 473

(16QAM High Channel)

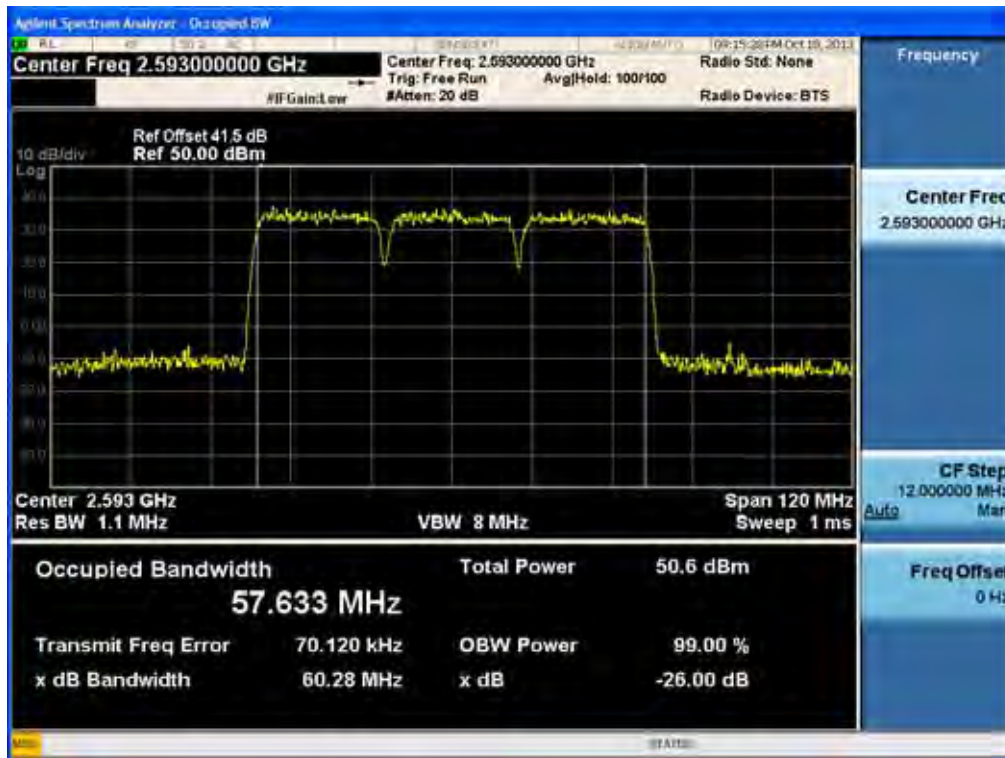


(64QAM Low Channel)



FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 133 of 473

(64QAM Middle Channel)



(64QAM High Channel)

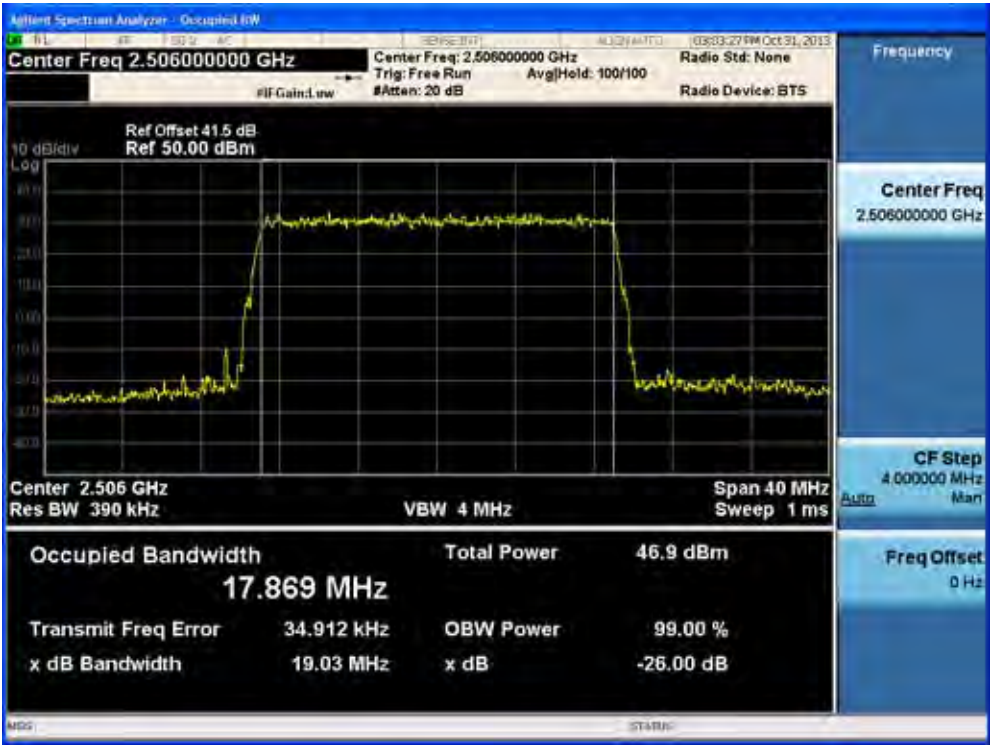


FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 134 of 473

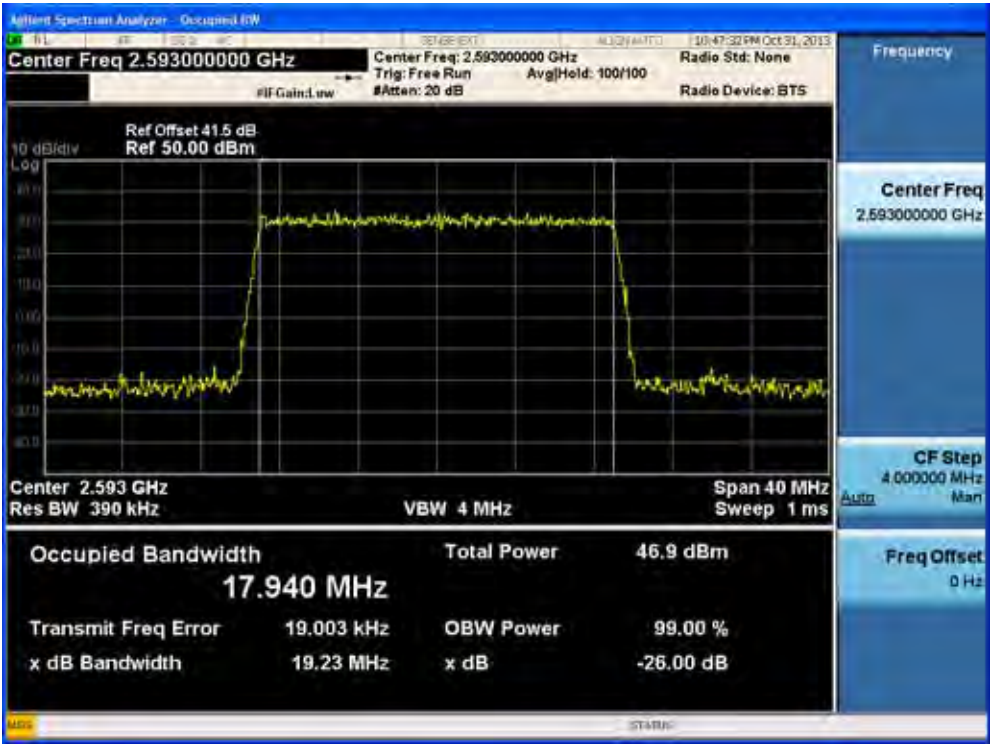
LTE20M(10W)

6.7.13. Test Plot at Output Port 1

(QPSK Low Channel)

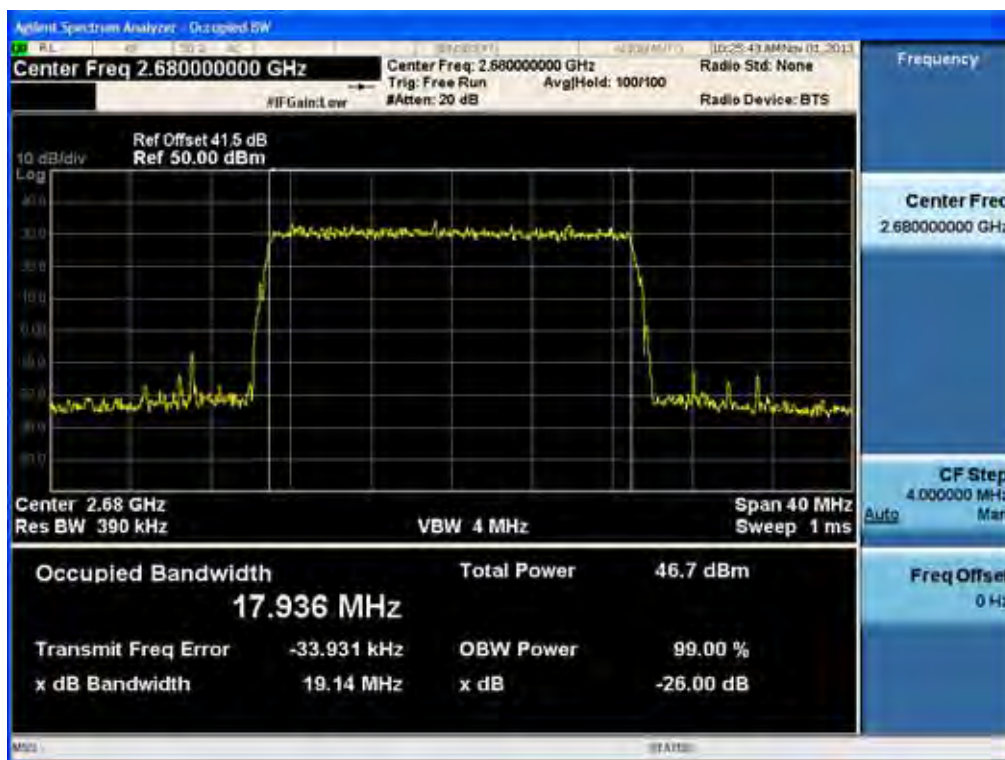


(QPSK Middle Channel)

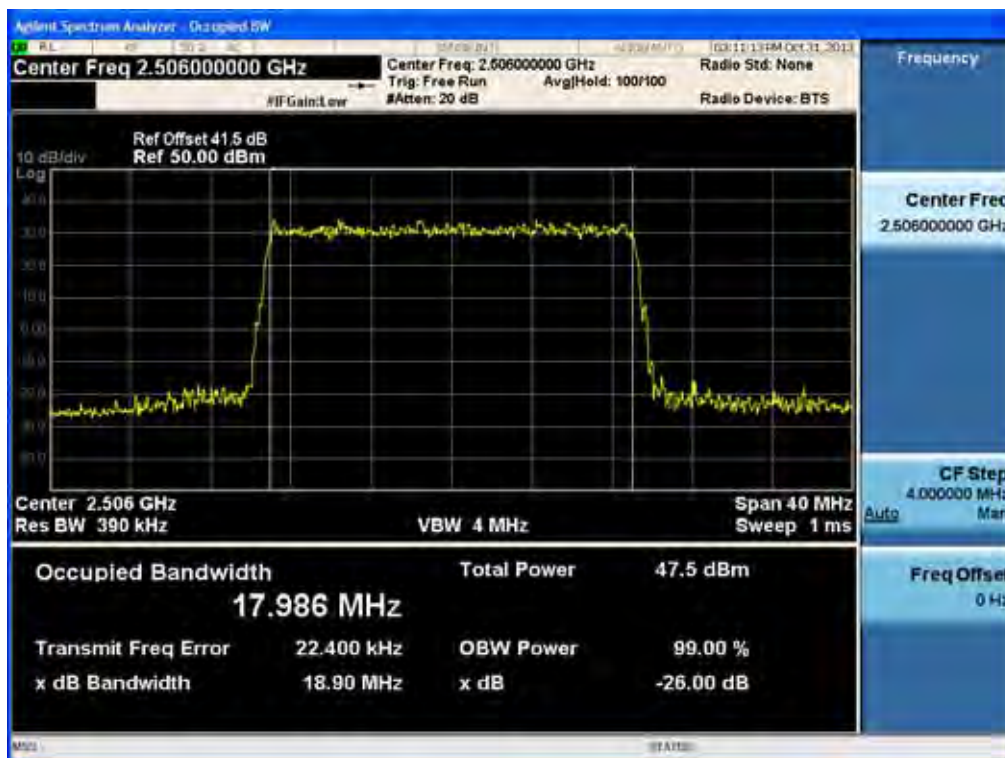


FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 135 of 473

(QPSK High Channel)

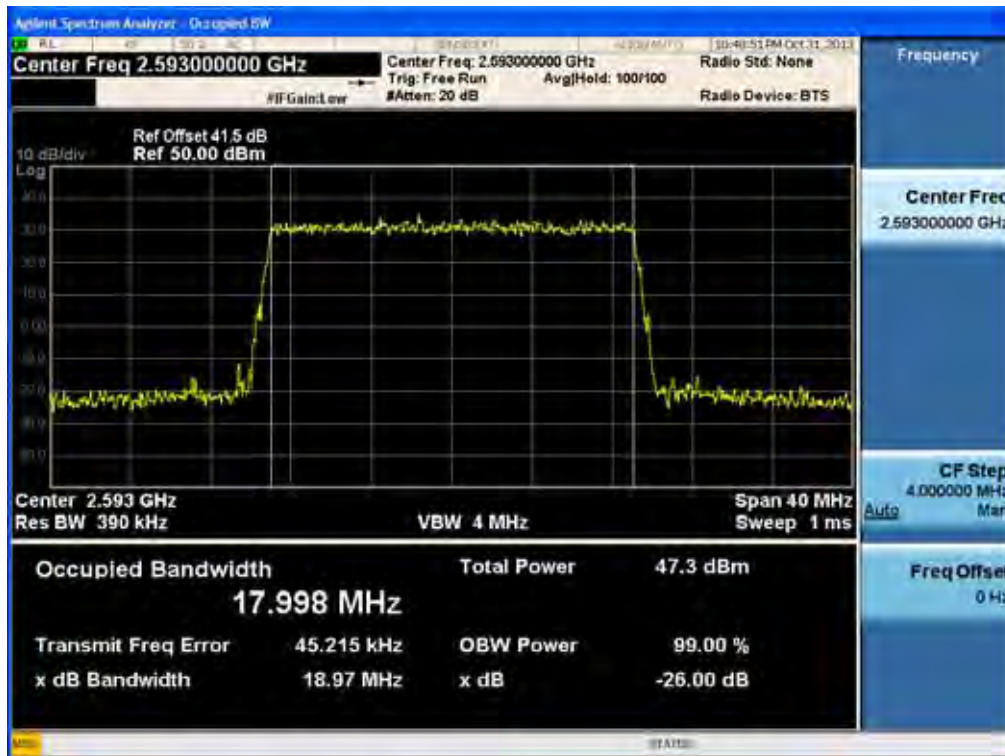


(16QAM Low Channel)

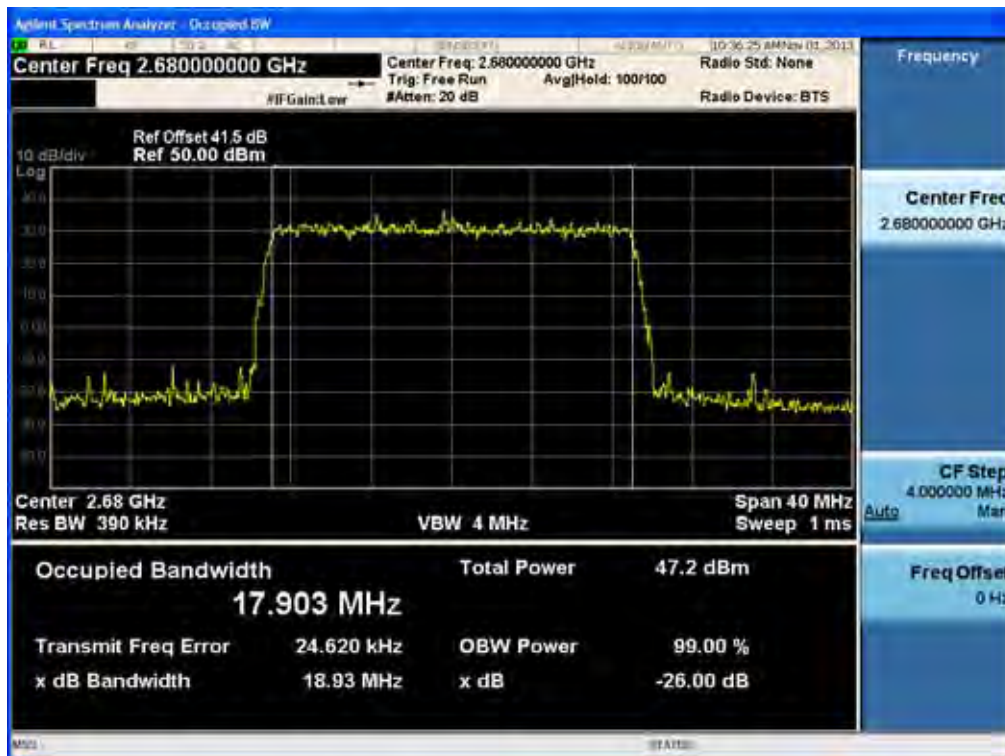


FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 136 of 473

(16QAM Middle Channel)

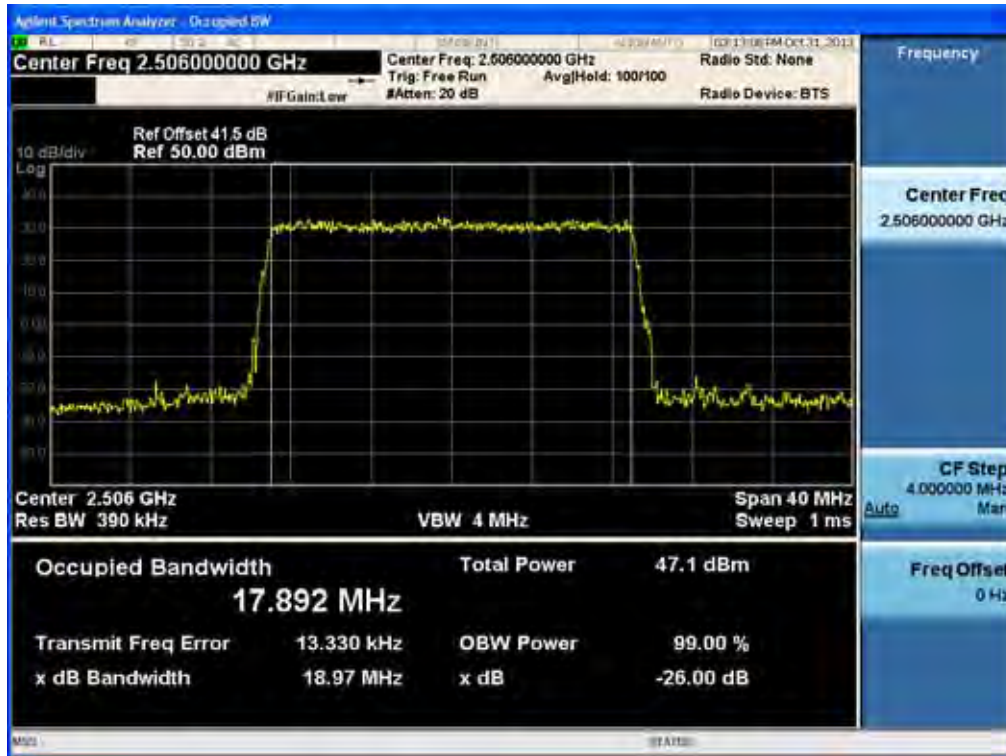


(16QAM High Channel)

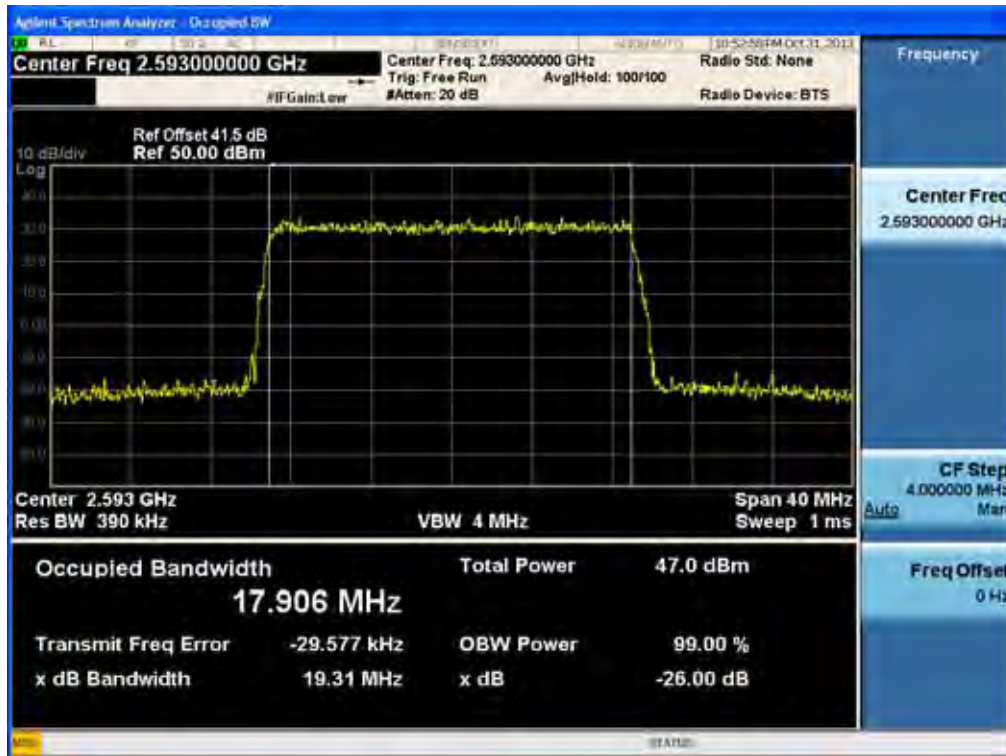


FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 137 of 473

(64QAM Low Channel)

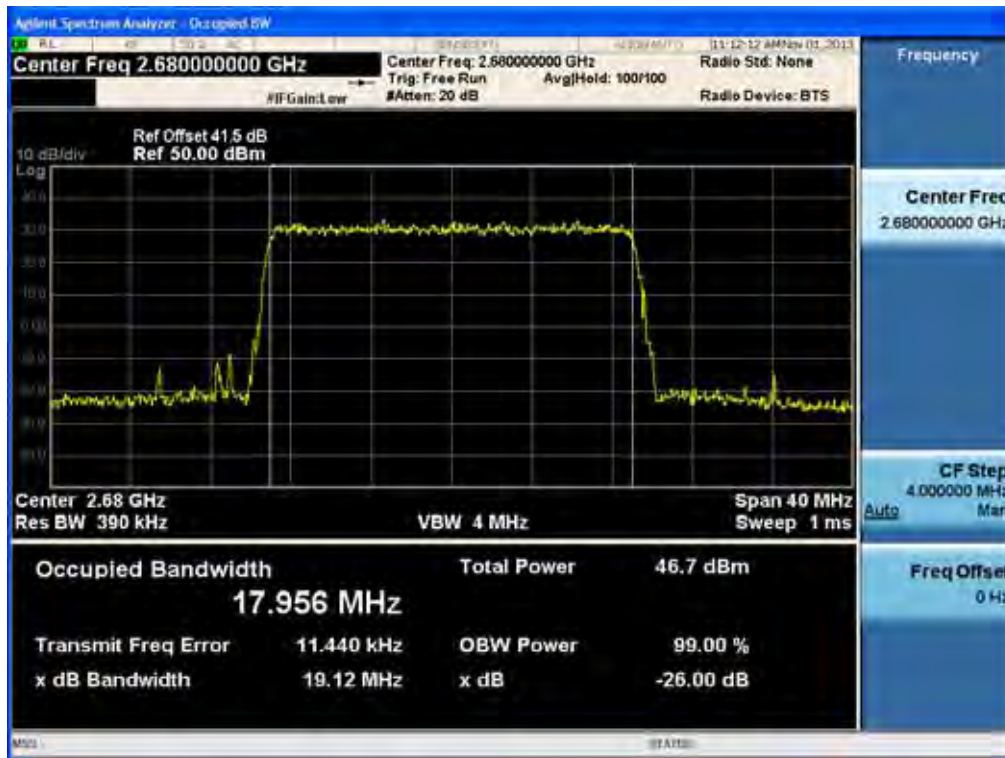


(64QAM Middle Channel)



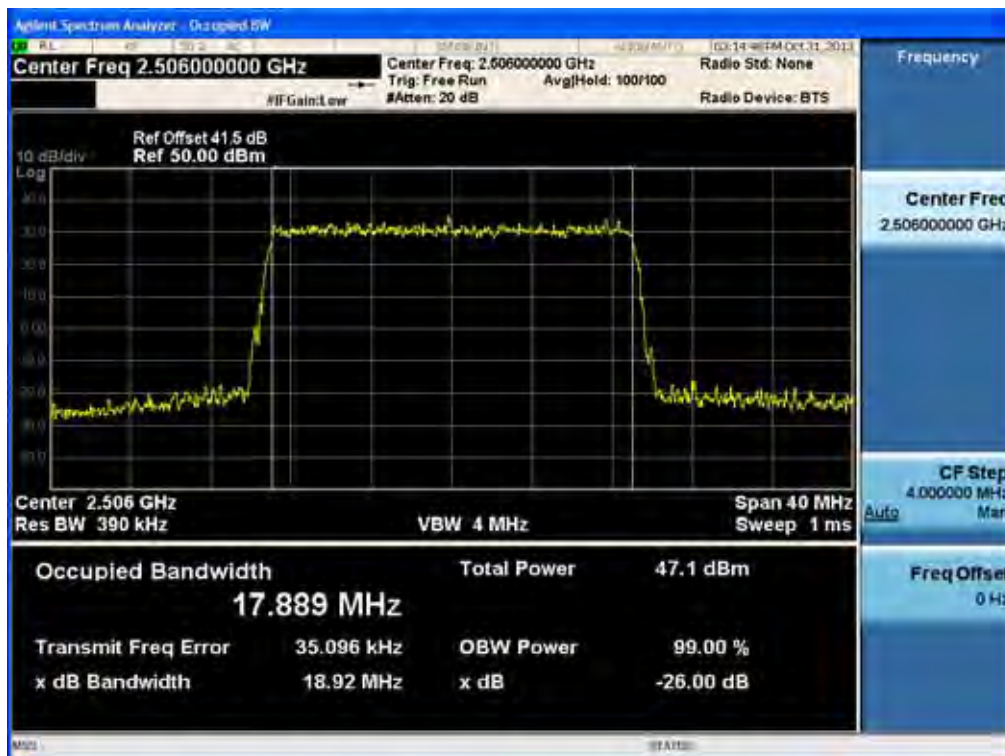
FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 138 of 473

(64QAM High Channel)



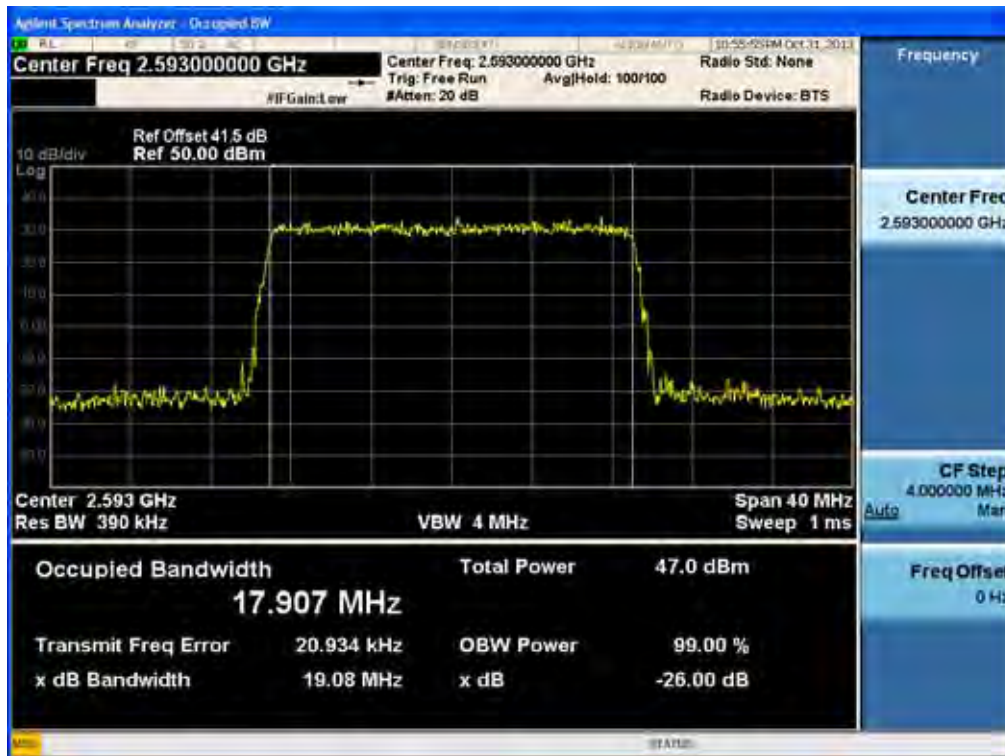
6.7.14. Test Plot at Output Port 2

(QPSK Low Channel)

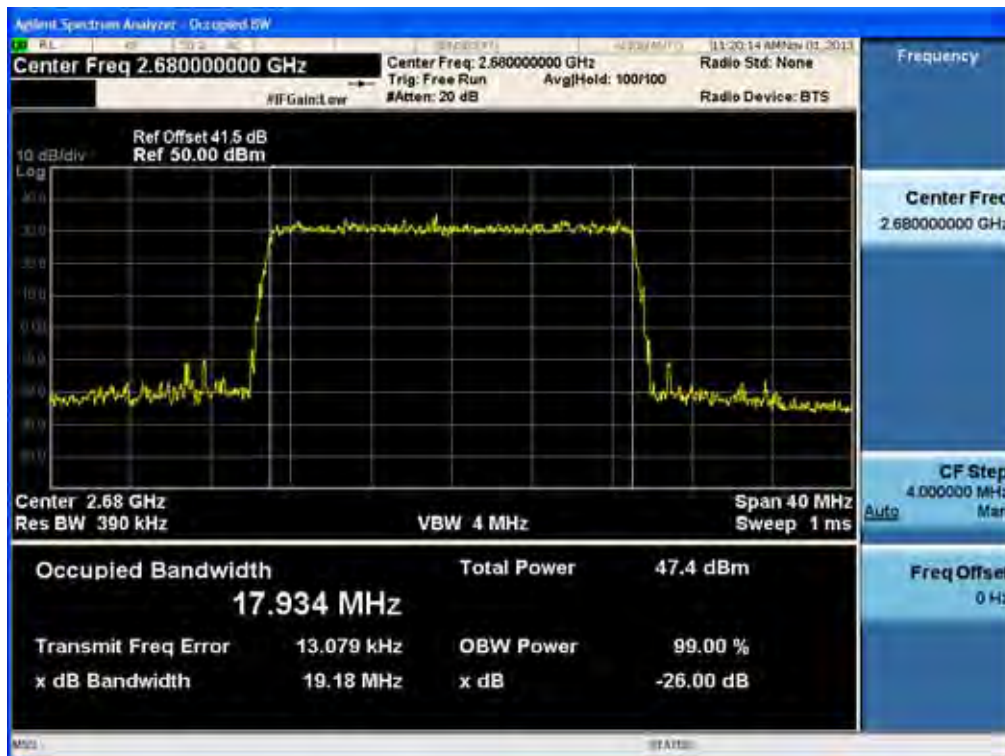


FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 139 of 473

(QPSK Middle Channel)

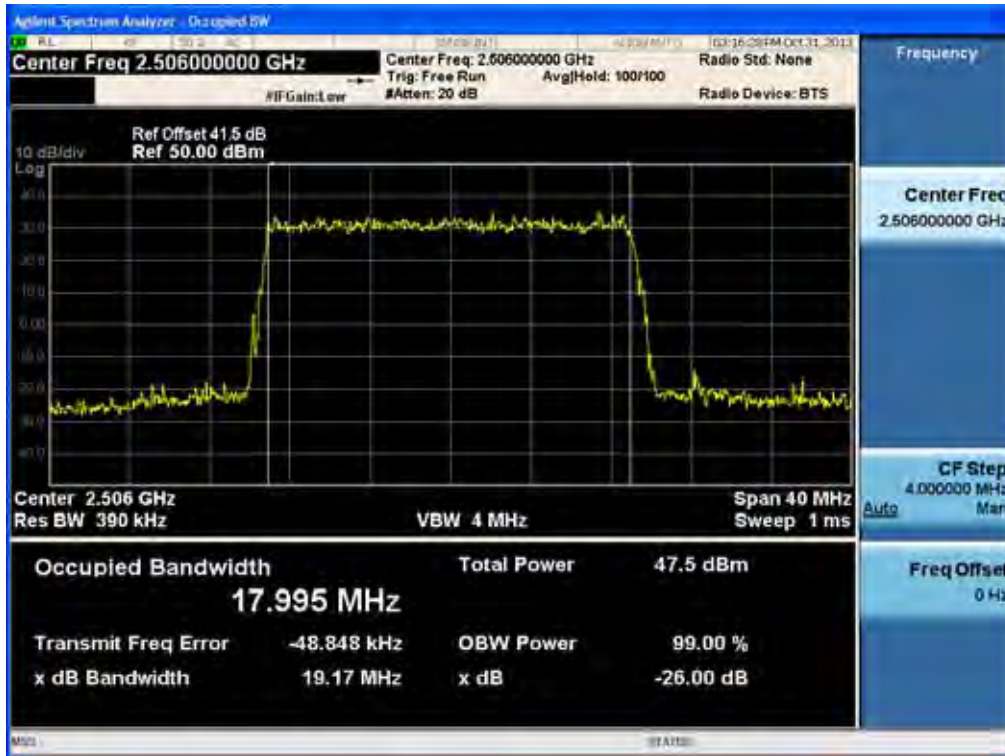


(QPSK High Channel)

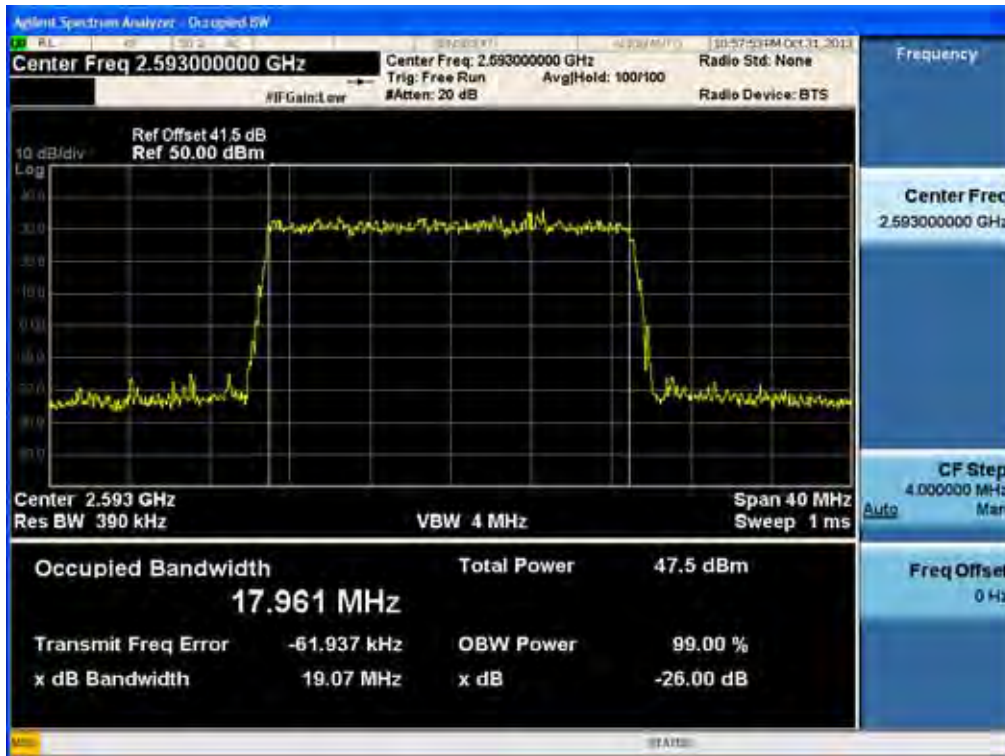


FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 140 of 473

(16QAM Low Channel)

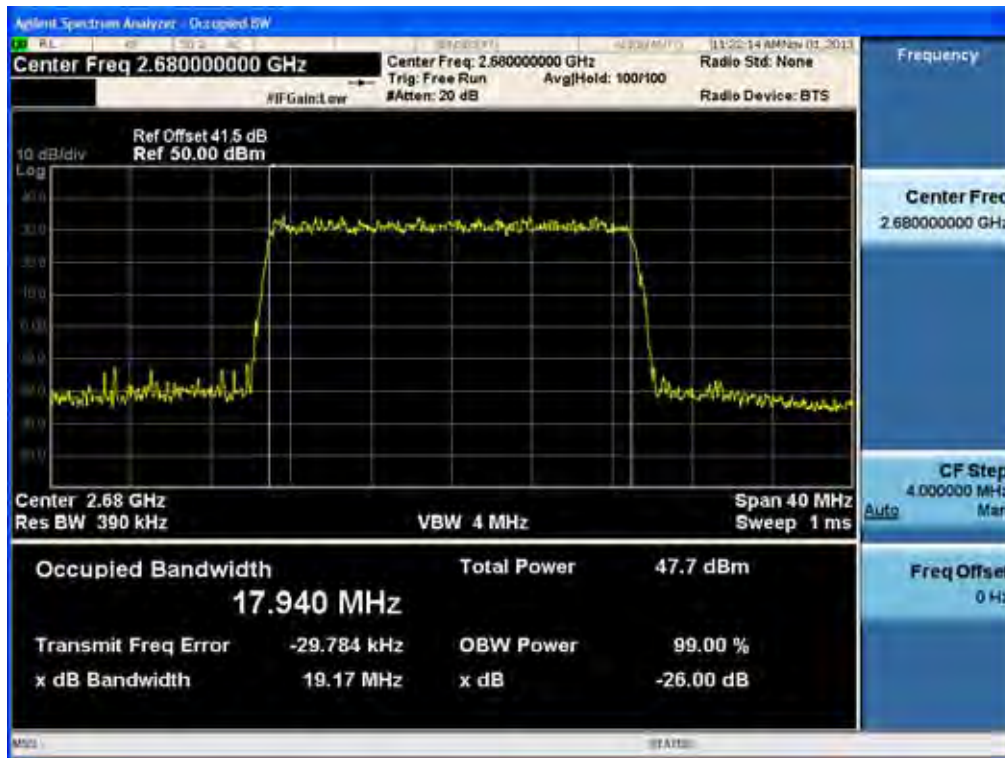


(16QAM Middle Channel)

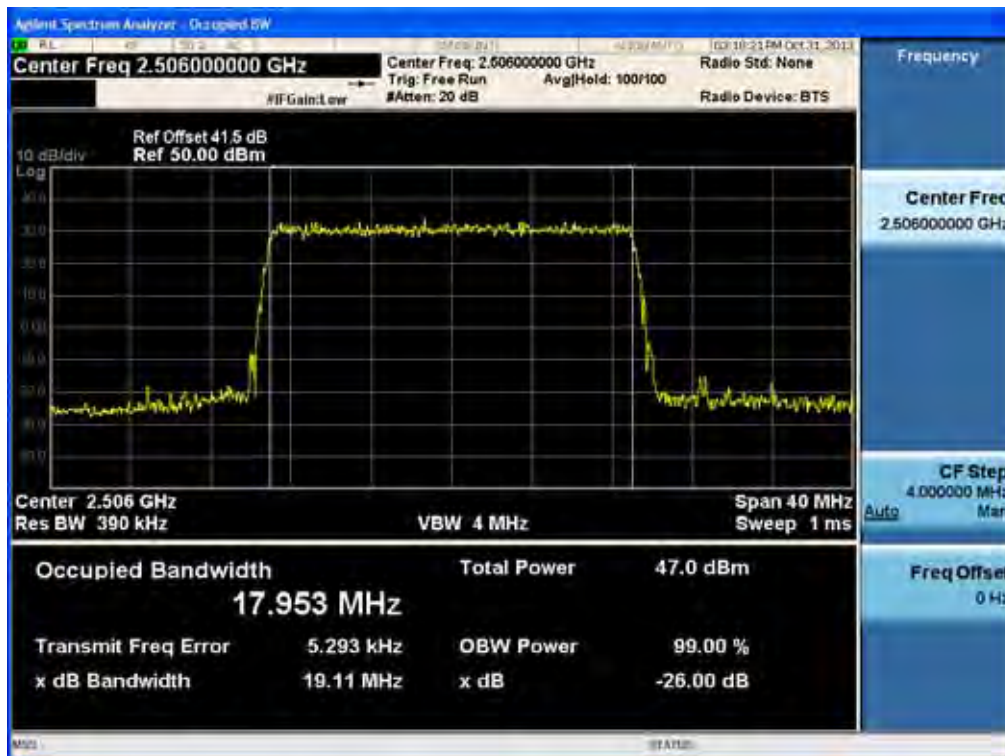


FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 141 of 473

(16QAM High Channel)

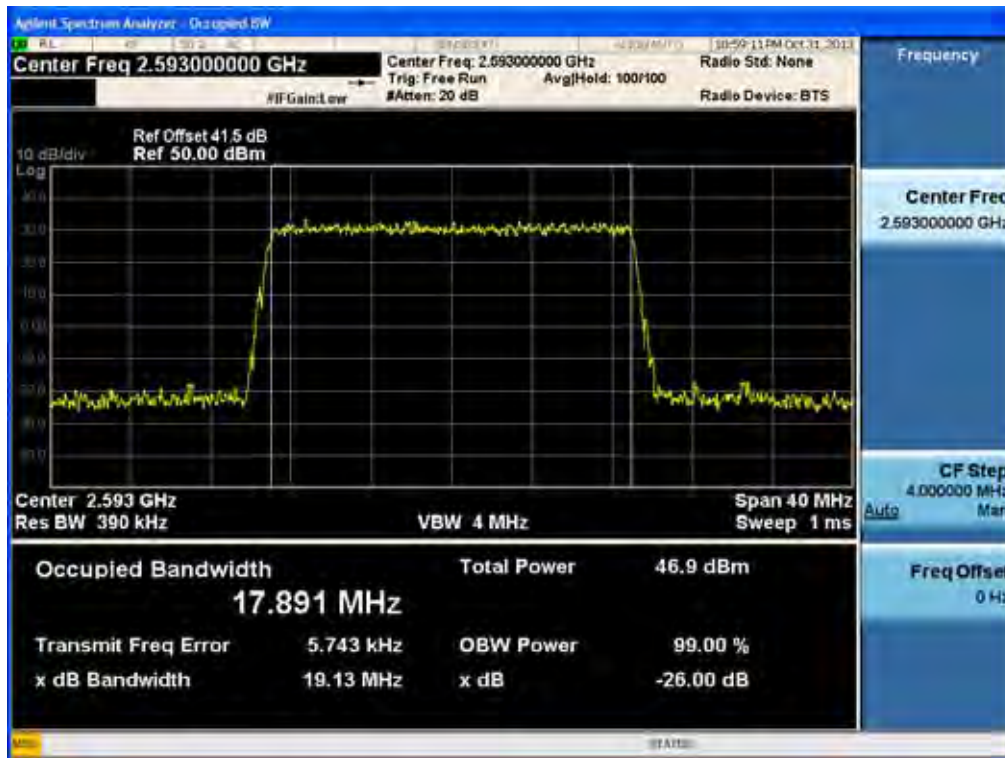


(64QAM Low Channel)

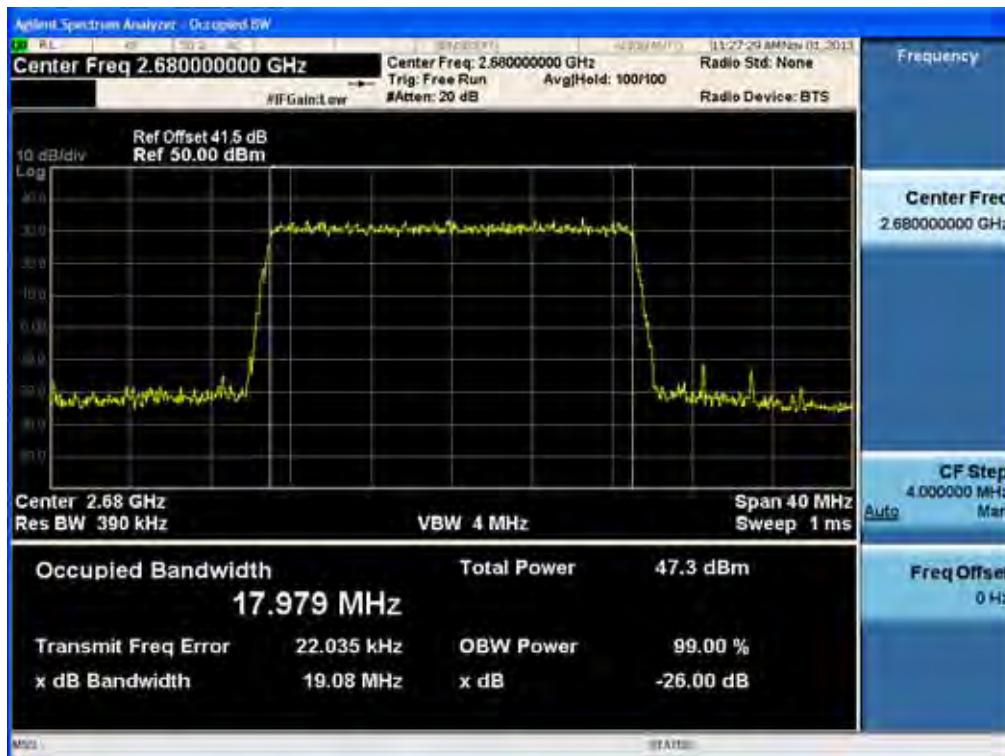


FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 142 of 473

(64QAM Middle Channel)



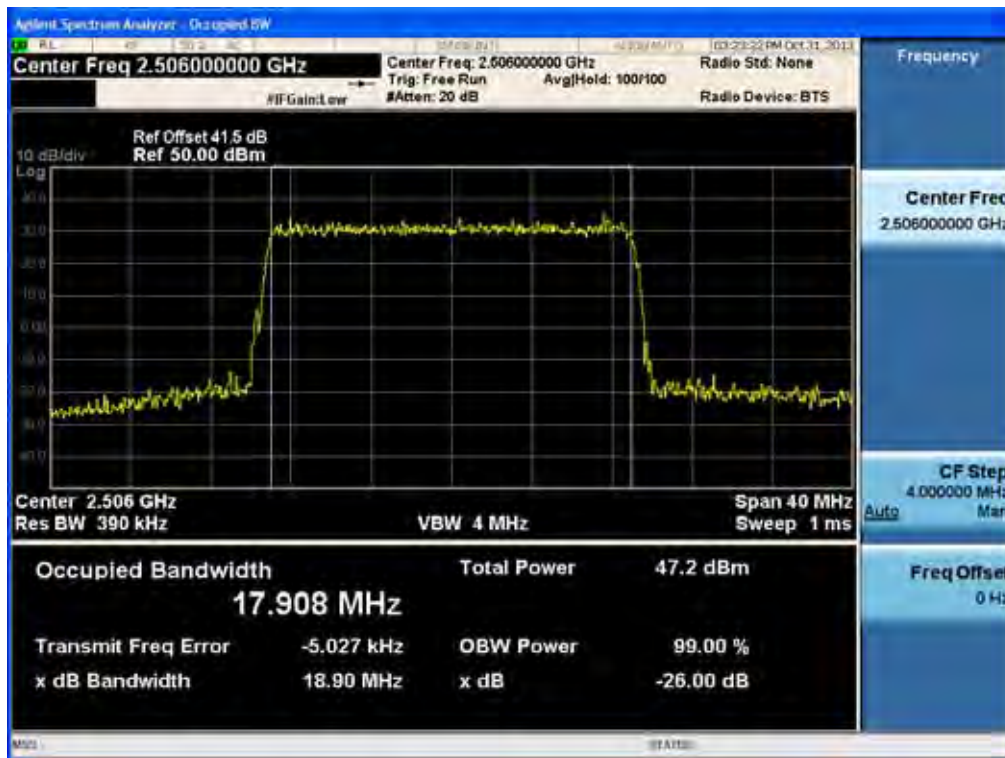
(64QAM High Channel)



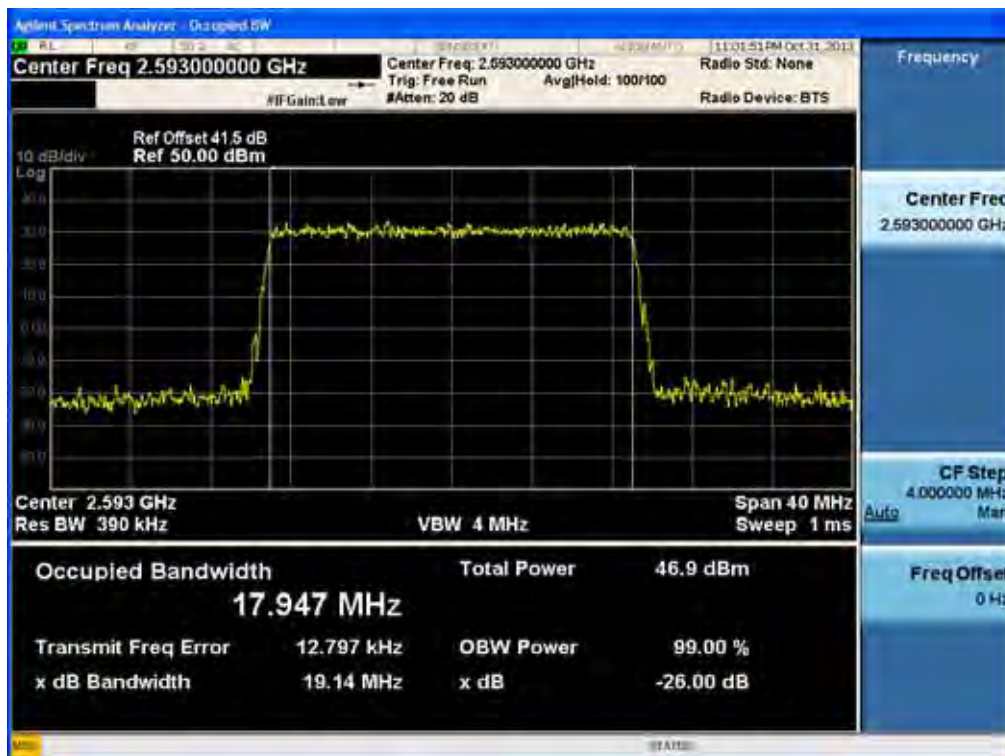
FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 143 of 473

6.7.15. Test Plot at Output Port 3

(QPSK Low Channel)

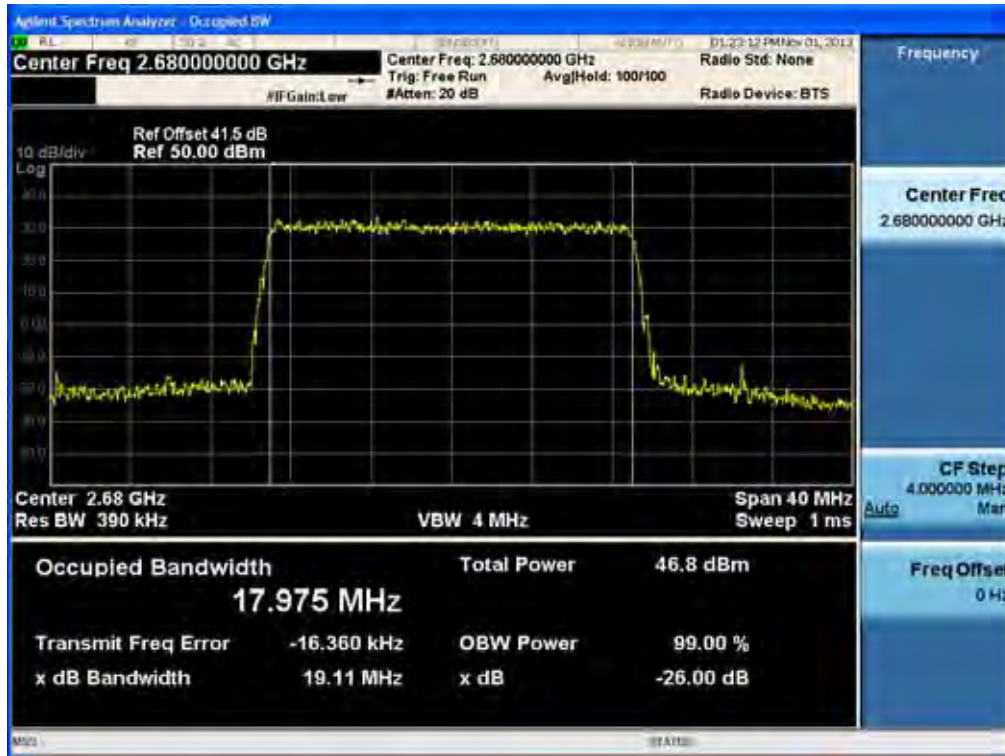


(QPSK Middle Channel)

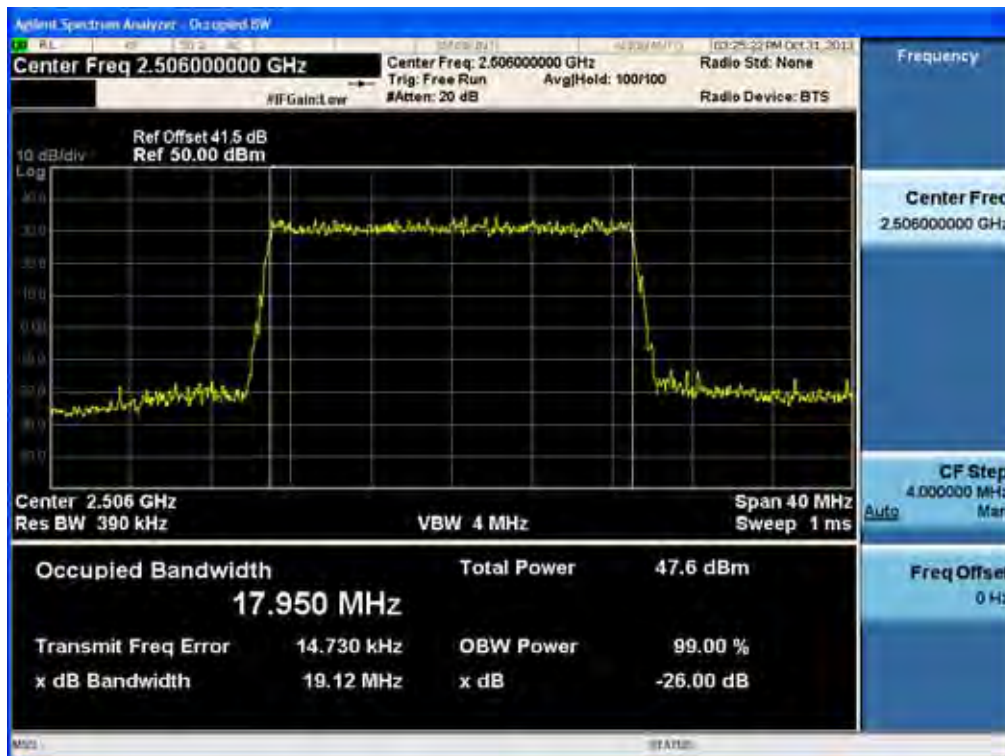


FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 144 of 473

(QPSK High Channel)

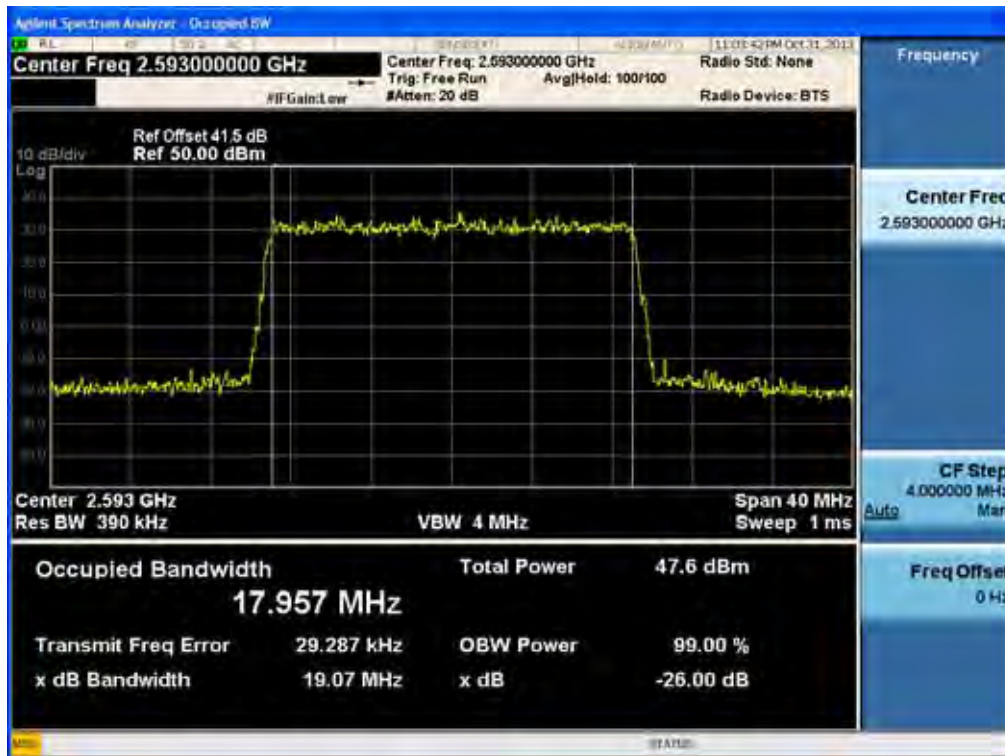


(16QAM Low Channel)

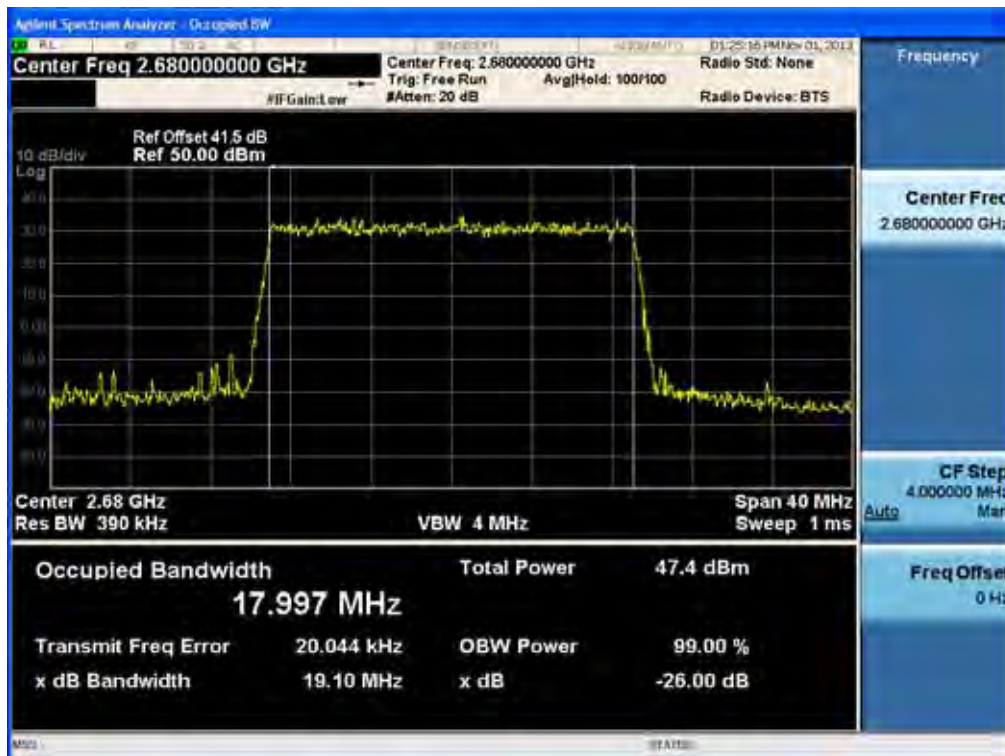


FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 145 of 473

(16QAM Middle Channel)

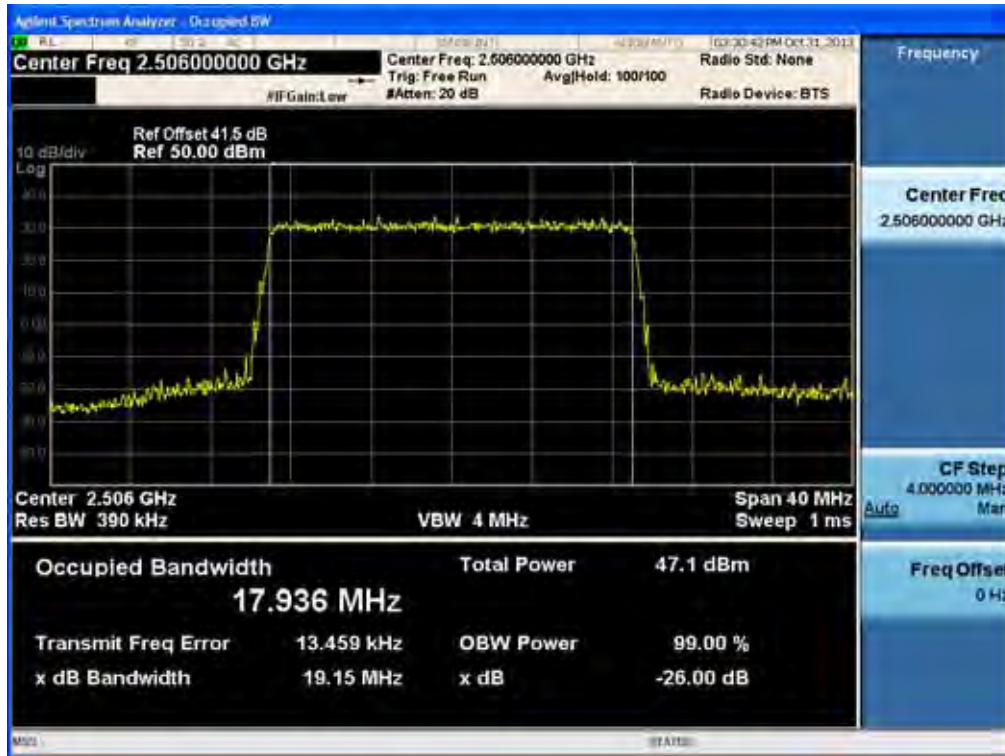


(16QAM High Channel)

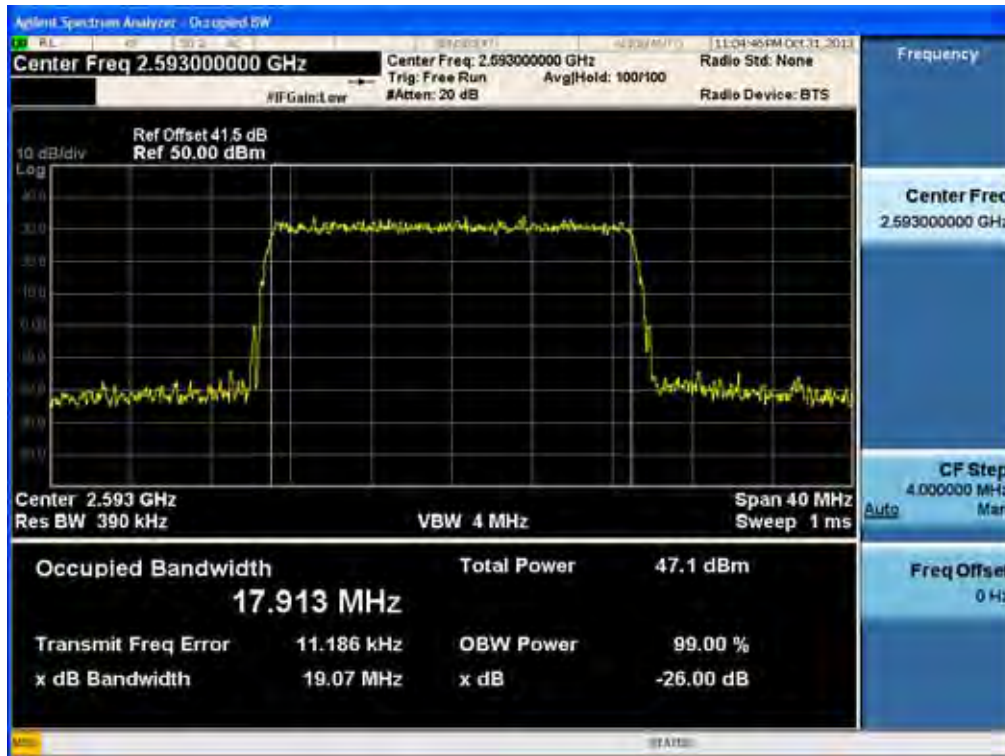


FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 146 of 473

(64QAM Low Channel)

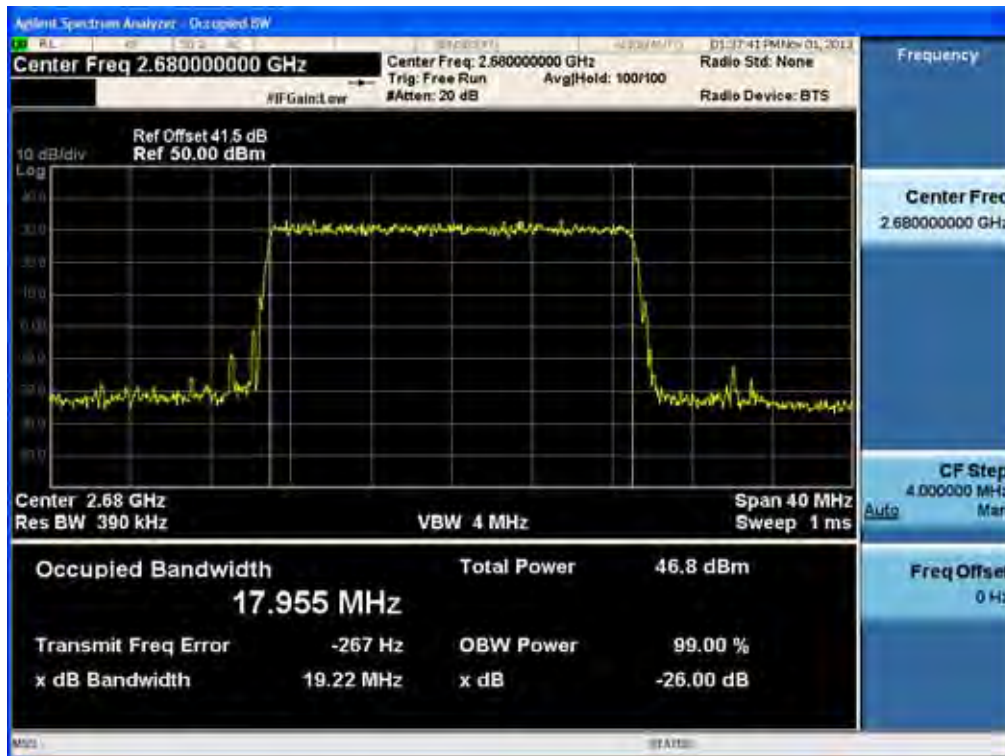


(64QAM Middle Channel)



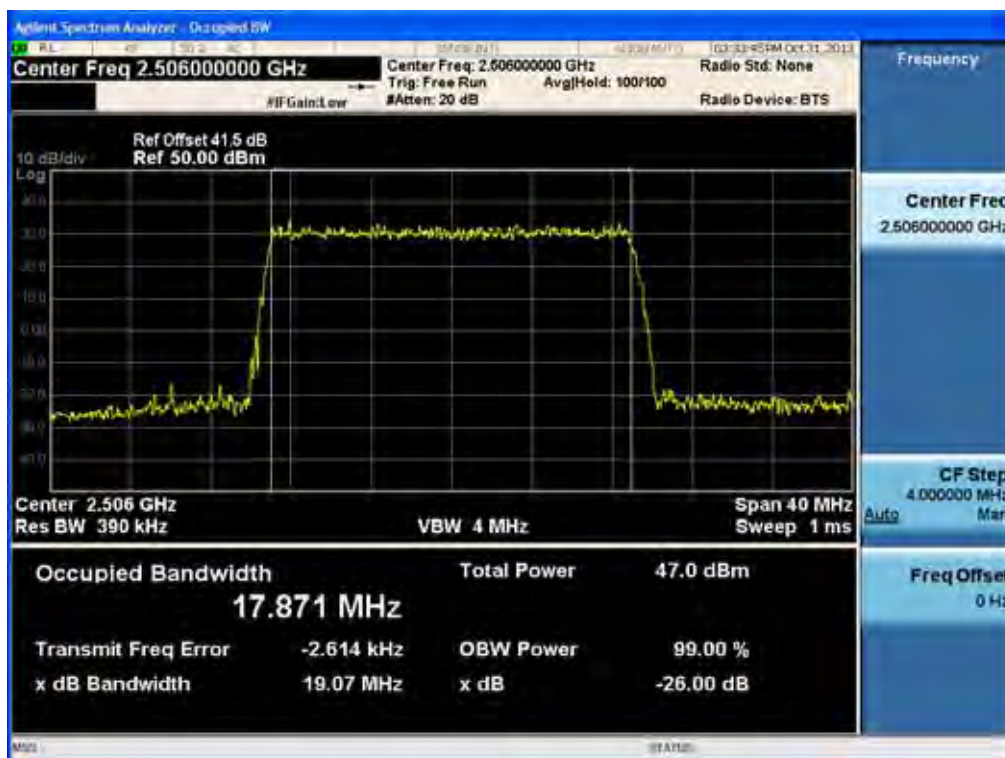
FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 147 of 473

(64QAM High Channel)



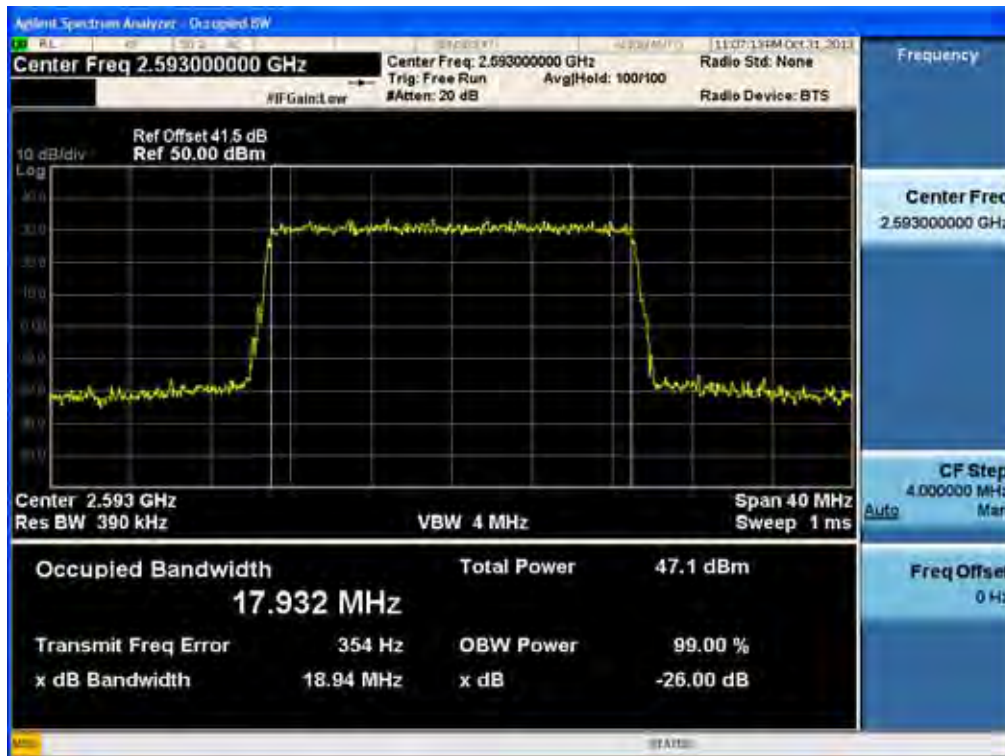
6.7.16. Test Plot at Output Port 4

(QPSK Low Channel)

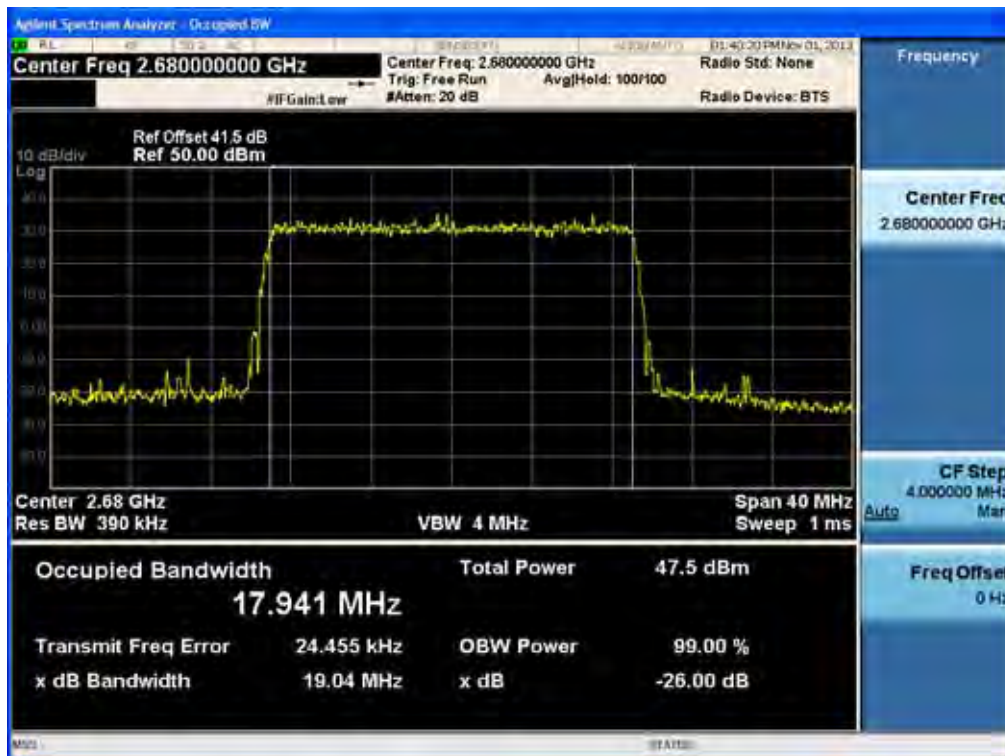


FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 148 of 473

(QPSK Middle Channel)

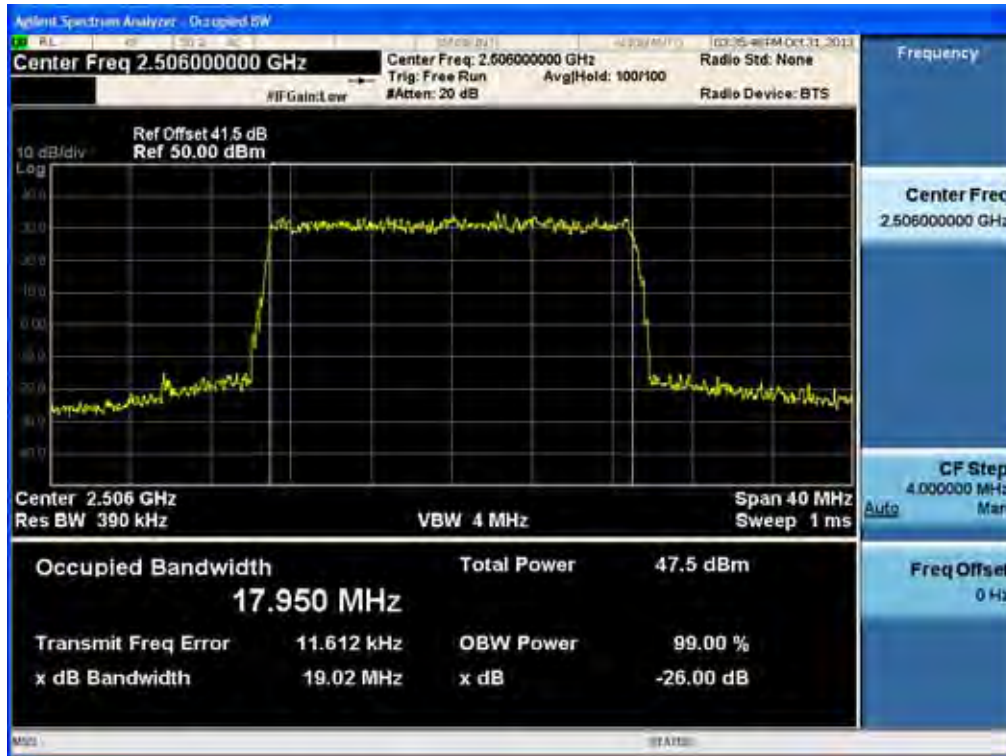


(QPSK High Channel)

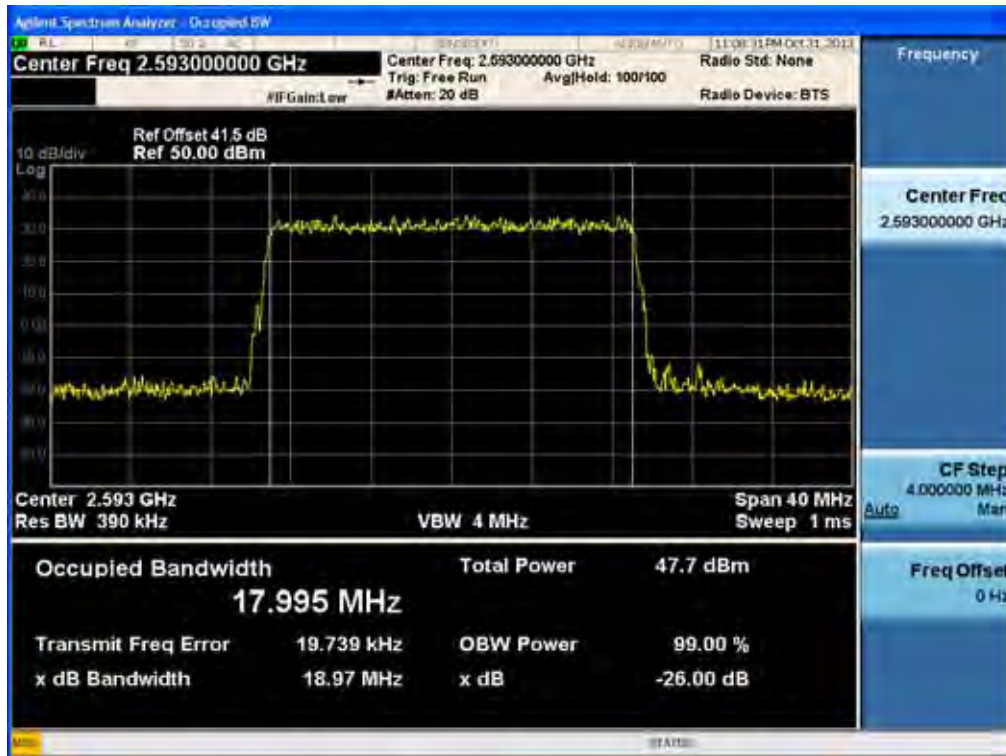


FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 149 of 473

(16QAM Low Channel)

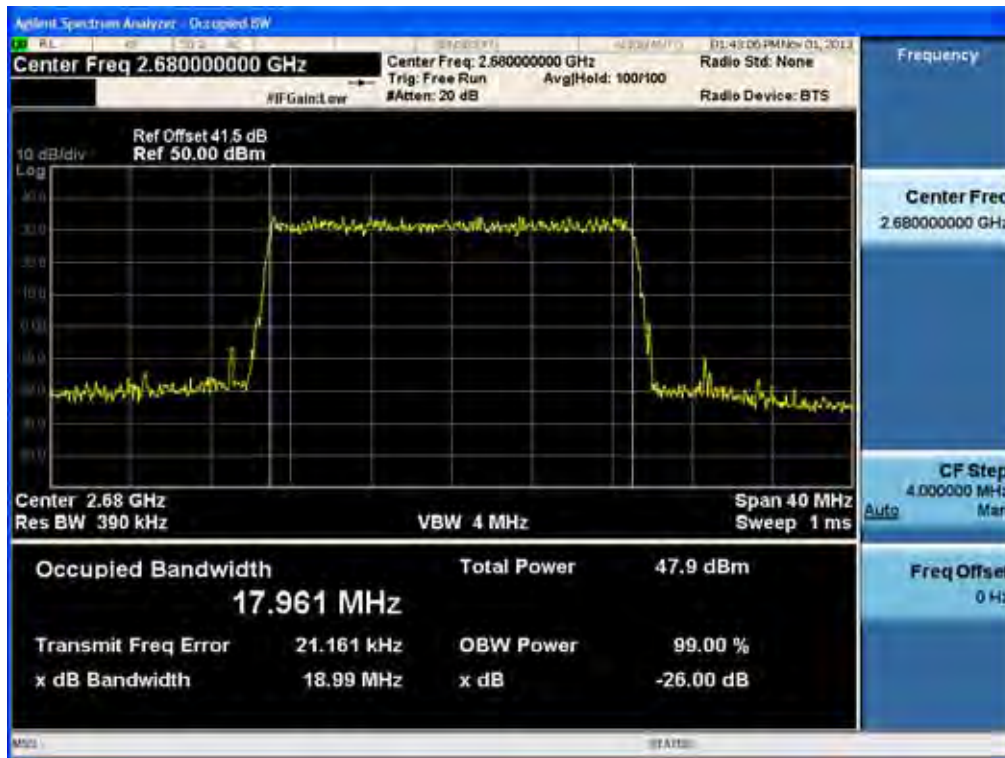


(16QAM Middle Channel)

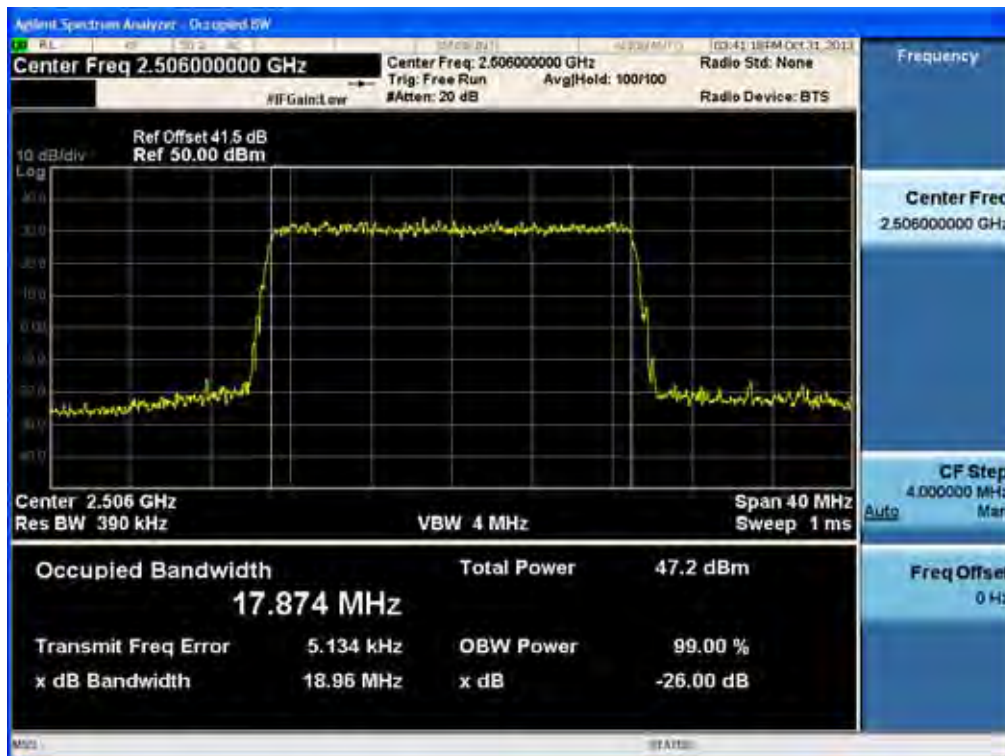


FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 150 of 473

(16QAM High Channel)

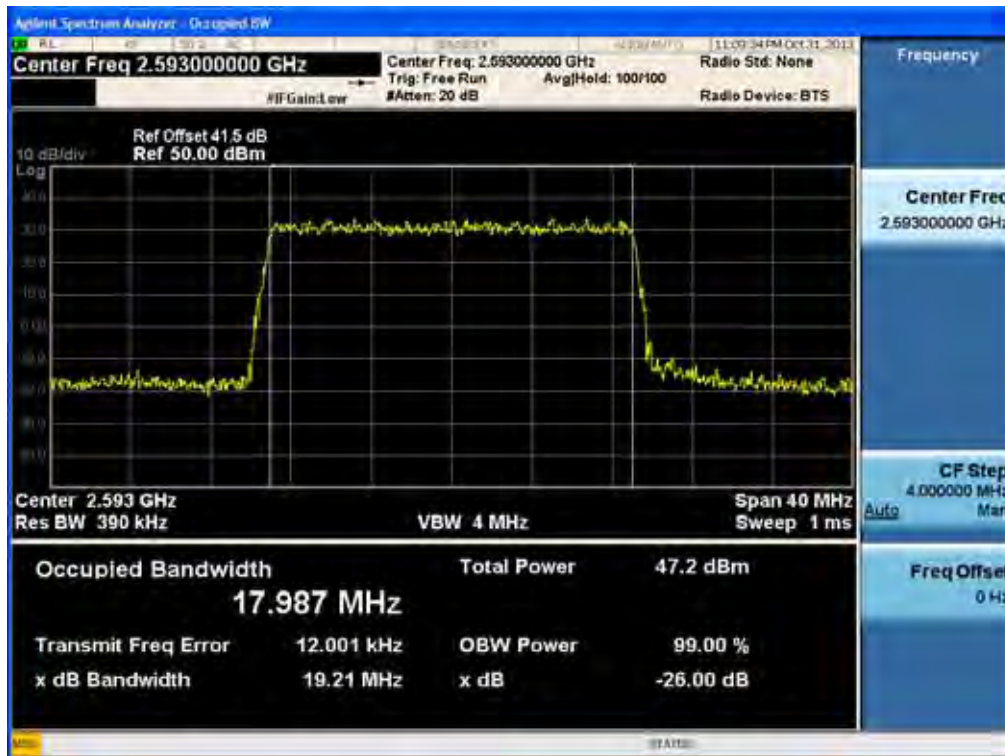


(64QAM Low Channel)

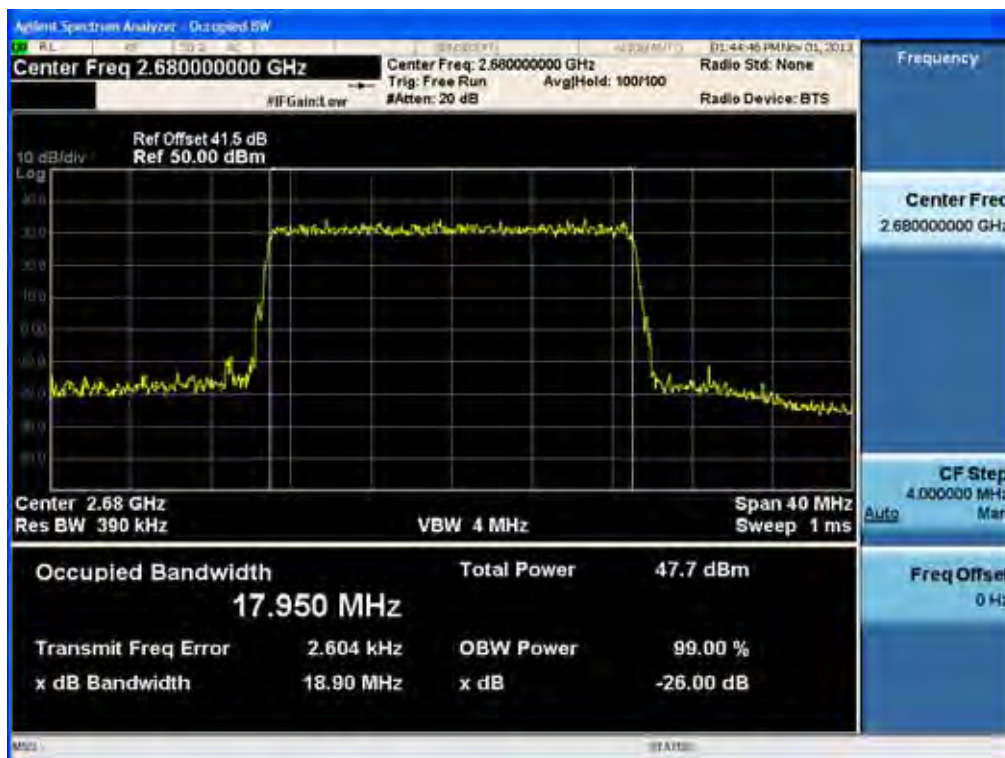


FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 151 of 473

(64QAM Middle Channel)



(64QAM High Channel)



FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT			HCT PT.27 TEST REPORT
Test Report No. HCTR1311FR01	Date of Issue: November 05, 2013	EUT Type: RRH (Remote Radio Head)	FCC ID: A3LSLS-BD10JQ	Page 152 of 473