

FCC LTE REPORT

FCC Certification

Applicant Name:
SAMSUNG Electronics Co., Ltd.

Address:
129, Samsung-ro, Yeongtong-gu, Suwon-si,
Gyeonggi-do, 16677, Rep. of Korea

Date of Issue:
November 03, 2015

Test Site/Location:
HCT CO., LTD., 74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, 17383, Rep. of KOREA

Report No.: HCT-R-1510-F045-1

HCT FRN: 0005866421

FCC ID: A3LSMW2016

APPLICANT: SAMSUNG Electronics Co., Ltd.

FCC Model(s): SM-W2016
EUT Type: Mobile Phone
FCC Classification: Licensed Portable Transmitter Held to Ear (PCE)
FCC Rule Part(s): §90.691, §2

CLOSE

Mode (MHz)	Tx Frequency (MHz)	Emission Designator	Modulation	ERP	
				Max. Power (W)	Max. Power (dBm)
LTE - Band26 (1.4)	814.7 – 823.3	1M08G7D	QPSK	0.016	12.13
		1M08W7D	16QAM	0.013	11.22
LTE - Band26 (3)	815.5 – 822.5	2M68G7D	QPSK	0.016	11.92
		2M69W7D	16QAM	0.013	11.16
LTE - Band26 (5)	816.5 – 821.5	4M47G7D	QPSK	0.014	11.40
		4M48W7D	16QAM	0.012	10.66
LTE - Band26 (10)	819.0	8M97G7D	QPSK	0.009	9.78
		8M94W7D	16QAM	0.008	9.09

OPEN

Mode (MHz)	Tx Frequency (MHz)	Modulation	ERP	
			Max. Power (W)	Max. Power (dBm)
LTE - Band26 (1.4)	814.7 – 823.3	QPSK	0.018	12.52
		16QAM	0.015	11.75
LTE - Band26 (3)	815.5 – 822.5	QPSK	0.017	12.20
		16QAM	0.014	11.47
LTE - Band26 (5)	816.5 – 821.5	QPSK	0.015	11.70
		16QAM	0.012	10.92
LTE - Band26 (10)	819.0	QPSK	0.011	10.60
		16QAM	0.010	9.98

The measurements shown in this report were made in accordance with the procedures specified in CFR47 section §2.947. I assume full responsibility for the accuracy and completeness of these measurements, and for the qualifications of all persons taking them.

HCT CO., LTD. Certifies that no party to this application has subject to a denial of Federal benefits that includes FCC benefits pursuant to section 5301 of the Anti-Drug Abuse Act of 1998, 21 U.S. C. 853(a)



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Report Revision

TEST REPORT NO.	DATE	DESCRIPTION
HCT-R-1510-F045	October 26, 2015	- First Approval Report
HCT-R-1510-F045-1	November 03, 2015	- Added the Effective Radiated Power table - Revised the Calibration Due Data

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MEASUREMENT REPORT

1. GENERAL INFORMATION

Applicant Name: SAMSUNG Electronics Co., Ltd.

Address: 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Rep. of Korea

FCC ID: A3LSMW2016

Application Type: Certification

FCC Classification: Licensed Portable Transmitter Held to Ear (PCE)

FCC Rule Part(s): §90.691, §2

EUT Type: Mobile Phone

FCC Model(s): SM-W2016

Tx Frequency: 814.7 MHz – 823.3 MHz (LTE – Band 26 (1.4 MHz))
815.5 MHz – 822.5 MHz (LTE – Band 26 (3 MHz))
816.5 MHz – 821.5 MHz (LTE – Band 26 (5 MHz))
819.0 MHz (LTE – Band 26 (10 MHz))

Max. RF Output Power: **CLOSE**
Band 26 (1.4 MHz) : 0.016 W (QPSK) (12.13 dBm)
0.013 W (16-QAM) (11.22 dBm)
Band 26 (3 MHz) : 0.016 W (QPSK) (11.92 dBm)
0.013 W (16-QAM) (11.16 dBm)
Band 26 (5 MHz) : 0.014 W (QPSK) (11.40 dBm)
0.012 W (16-QAM) (10.66 dBm)
Band 26 (10 MHz) : 0.009 W (QPSK) (9.78 dBm)
0.008 W (16-QAM) (9.09 dBm)
OPEN
Band 26 (1.4 MHz) : 0.018 W (QPSK) (12.52 dBm)
0.015 W (16-QAM) (11.75 dBm)
Band 26 (3 MHz) : 0.017 W (QPSK) (12.20 dBm)
0.014 W (16-QAM) (11.47 dBm)
Band 26 (5 MHz) : 0.015 W (QPSK) (11.70 dBm)
0.012 W (16-QAM) (10.92 dBm)
Band 26 (10 MHz) : 0.011 W (QPSK) (10.60 dBm)
0.010 W (16-QAM) (9.98 dBm)

Emission Designator(s): Band 26 (1.4 MHz) : 1M08G7D (QPSK) / 1M08W7D (16-QAM)
Band 26 (3 MHz) : 2M68G7D (QPSK) / 2M69W7D (16-QAM)
Band 26 (5 MHz) : 4M47G7D (QPSK) / 4M48W7D (16-QAM)
Band 26 (10 MHz) : 8M97G7D (QPSK) / 8M94W7D (16-QAM)

Date(s) of Tests: September 01, 2015 ~ October 25, 2015

Antenna Specification
Manufacturer: SAMSUNG ELECTRONICS
Antenna type: Internal Antenna
Peak Gain: Band 26 : -5.67 dBi

2. INTRODUCTION

2.1. EUT DESCRIPTION

The SAMSUNG Electronics Co., Ltd. SM-W2016 Mobile Phone consists of LTE 26.

2.2. MEASURING INSTRUMENT CALIBRATION

The measuring equipment, which was utilized in performing the tests documented herein, has been calibrated in accordance with the manufacturer's recommendations for utilizing calibration equipment, which is traceable to recognized national standards.

2.3. TEST FACILITY

The Fully-anechoic chamber and conducted measurement facility used to collect the radiated data are located at the **74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, 17383, Rep. of KOREA.**

3. DESCRIPTION OF TESTS

3.1 CONDUCTED OUTPUT POWER

Test Procedure

Conducted Output Power is tested in accordance with KDB971168 D01 Power Meas License Digital Systems v02r02, October 17, 2014, Section 5.2.

5.2.1 Procedure for use with a spectrum/signal analyzer when EUT can be configured to transmit continuously or when sweep triggering/signal gating can be properly implemented

The EUT is considered to transmit continuously if it can be configured to transmit at a burst duty cycle of greater than or equal to 98% throughout the duration of the measurement. If this condition can be achieved, then the following procedure can be used to measure the average output power of the EUT.

This procedure can also be used when the EUT cannot be configured to transmit continuously, provided that the measurement instrument can be configured to trigger a sweep at the beginning of each full-power transmission burst, and the sweep time is less than or equal to the minimum transmission time during each burst (*i.e.*, no burst off-time is to be included in the measurement).

- a) Set span to at least 1.5 times the OBW.
- b) Set RBW = 1-5% of the OBW, not to exceed 1 MHz.
- c) Set VBW $\geq 3 \times$ RBW.
- d) Set number of points in sweep $\geq 2 \times$ span / RBW.
- e) Sweep time = auto-couple.
- f) Detector = RMS (power averaging).
- g) If the EUT can be configured to transmit continuously (*i.e.*, burst duty cycle $\geq 98\%$), then set the trigger to free run.
- h) If the EUT cannot be configured to transmit continuously (*i.e.*, burst duty cycle $< 98\%$), then use a sweep trigger with the level set to enable triggering only on full power bursts and configure the EUT to transmit at full power for the entire duration of each sweep. Ensure that the sweep time is less than or equal to the transmission burst duration.
- i) Trace average at least 100 traces in power averaging (*i.e.*, RMS) mode.
- j) Compute the power by integrating the spectrum across the OBW of the signal using the instrument's band power measurement function, with the band limits set equal to the OBW band edges. If the instrument does not have a band power function, then sum the spectrum levels (in linear power units) at intervals equal to the RBW extending across the entire OBW of the spectrum.

3.2 ERP RADIATED POWER AND RADIATED SPURIOUS EMISSIONS

Note: ERP(Effective Radiated Power)

Test Procedure

Radiated emission measurements are performed in the Fully-anechoic chamber. The equipment under test is placed on a non-conductive table 3-meters away from the receive antenna in accordance with ANSI/TIA-603-D-2010 Clause 2.2.17. The turntable is rotated through 360 degrees, and the receiving antenna scans in order to determine the level of the maximized emission. The level and position of the maximized emission is recorded with the spectrum analyzer using a RMS detector.

A half wave dipole is then substituted in place of the EUT. For emissions above 1GHz, a horn antenna is substituted in place of the EUT. The substitute antenna is driven by a signal generator and the previously recorded signal was duplicated.

The power is calculated by the following formula;

$$P_{d(dBm)} = P_{g(dBm)} - \text{cable loss}_{(dB)} + \text{antenna gain}_{(dB)}$$

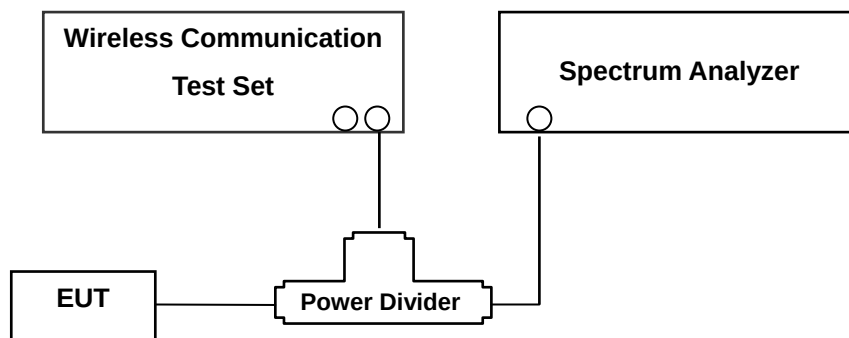
Where: P_d is the dipole equivalent power and P_g is the generator output power into the substitution antenna.

Radiated spurious emissions

1. Frequency Range : 30 MHz ~ 10th Harmonics of highest channel fundamental frequency.

3.3 OCCUPIED BANDWIDTH.

Test set-up



(Configuration of conducted Emission measurement)

The width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5 % of the total mean power of a given emission.

Test Procedure

OBW is tested in accordance with KDB971168 D01 Power Meas License Digital Systems v02r02, October 17, 2014, Section 4.2.

The EUT makes a call to the communication simulator. The power was measured with R&S Spectrum Analyzer. All measurements were done at 3 channels(low, middle and high operational range.)

The conducted occupied bandwidth used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.

The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency. Use OBW measurement function of Spectrum analyzer to measure 99 % occupied bandwidth.

3.4 SPURIOUS AND HARMONIC EMISSIONS AT ANTENNA TERMINAL.

Test Procedure

Spurious and harmonic emissions at antenna terminal is tested in accordance with KDB971168 D01 Power Meas License Digital Systems v02r02, October 17, 2014, Section 6.0.

The level of the carrier and the various conducted spurious and harmonic frequencies is measured by means of a calibrated spectrum analyzer. The spectrum is scanned from the lowest frequency generated in the equipment up to a frequency including its 10th harmonic.

Out-of-band emission requirement shall apply only to the “outer” channels included in an EA license and to spectrum adjacent to interior channels used by incumbent licensees. The emission limits are as follows:

For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $116 \log_{10}(f/6.1)$ decibels or $50 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.

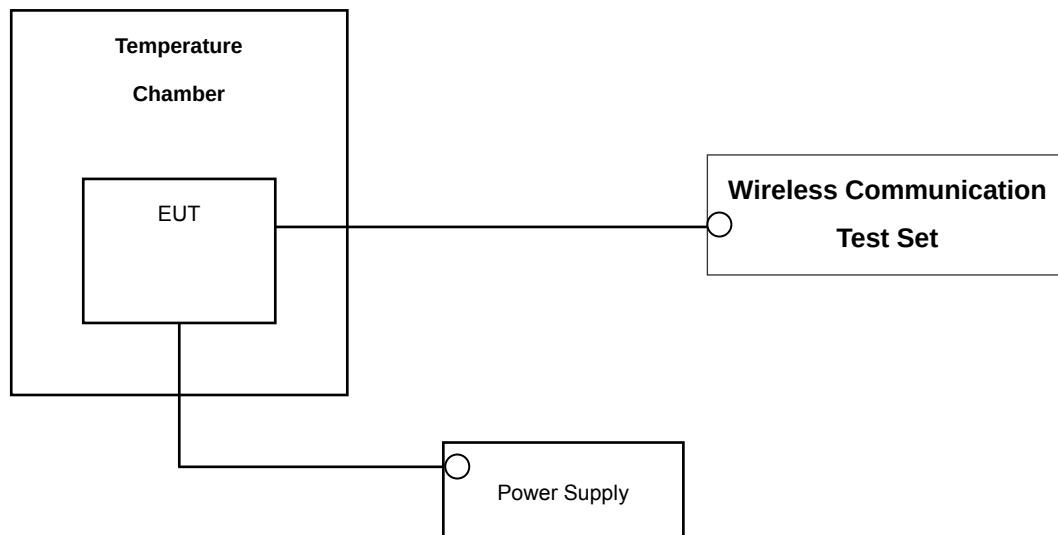
For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.

NOTES: The analyzer plot offsets were determined by below conditions.

- For LTE Band 26, total offset 26.1 dBm = 20 dBm attenuator + 6 dBm Divider + 0.1 dBm RF cables.

3.5 FREQUENCY STABILITY / VARIATION OF AMBIENT TEMPERATURE

Test Set-up



* Nominal Operating Voltage

Test Procedure

Frequency stability is tested in accordance with ANSI/TIA-603-D-2010 section 2.2.2

The frequency stability of the transmitter is measured by:

- a.) **Temperature:** The temperature is varied from - 30 °C to + 50 °C using an environmental chamber.
- b.) **Primary Supply Voltage:** The primary supply voltage is varied from the end point to 100 % of the voltage normally at the input to the device or at the power supply terminals if cables are not normally supplied.

Specification — the frequency stability of the transmitter shall be maintained within $\pm 0.00025\%$ (± 2.5 ppm) of the center frequency.

Time Period and Procedure:

The carrier frequency of the transmitter is measured at room temperature (20°C to provide a reference).

1. The equipment is turned on in a "standby" condition for one minute before applying power to the transmitter. Measurement of the carrier frequency of the transmitter is made within one minute after applying power to the transmitter.
2. Frequency measurements are made at 10°C intervals ranging from -30°C to +50°C. A period of at least one half-hour is provided to allow stabilization of the equipment at each temperature level.

NOTE: The EUT is tested down to the battery endpoint.

4. LIST OF TEST EQUIPMENT

Manufacture	Model/ Equipment	Serial Number	Calibration Interval	Calibration Due
Agilent	N1921A/ Power Sensor	MY45241059	Annual	07/09/2016
Agilent	N1911A/ Power Meter	MY45100523	Annual	07/09/2016
MITEQ	AMF-6D-001180-35-20P/AMP	1081666	Annual	09/03/2016
Wainwright	WHK1.2/15G-10EF/H.P.F	4	Annual	04/27/2016
Wainwright	WHK3.3/18G-10EF/H.P.F	2	Annual	04/27/2016
Hewlett Packard	11667B / Power Splitter	10545	Annual	02/16/2016
Hewlett Packard	11667B / Power Splitter	11275	Annual	04/29/2016
ITECT	IT6720/ Power Supply	010002156267001199	Annual	11/04/2015
Schwarzbeck	UHAP/ Dipole Antenna	557	Biennial	03/23/2017
Schwarzbeck	UHAP/ Dipole Antenna	558	Biennial	03/23/2017
EXP	EX-TH400/ Chamber	None	Annual	05/29/2016
Schwarzbeck	BBHA 9120D/ Horn Antenna	147	Biennial	09/01/2016
Schwarzbeck	BBHA 9120D/ Horn Antenna	1299	Biennial	05/15/2017
Schwarzbeck	BBHA 9170/ Horn Antenna(15~40GHz)	BBHA9170342	Biennial	04/30/2017
Schwarzbeck	BBHA 9170/ Horn Antenna(15~35GHz)	BBHA9170124	Biennial	04/30/2017
Agilent	N9020A/ Signal Analyzer	MY47380318	Annual	09/07/2016
WEINSCHL	ATTENUATOR	BR0592	Annual	10/21/2016
REOHDE&SCHWARZ	FSV40/Spectrum Analyzer	1307.9002K40-100931-NK	Annual	06/04/2016
Anritsu Corp.	MT8820C/Wideband Radio Communication Tester	6201274518	Annual	11/21/2015

5. SUMMARY OF TEST RESULTS

FCC Part Section(s)	Test Description	Test Limit	Test Condition	Test Result
2.1049	Occupied Bandwidth	N/A	CONDUCTED	PASS
2.1051, 90.691	Band Edge / Spurious and Harmonic Emissions at Antenna Terminal.	$< 50 + 10\log_{10}(P[\text{Watts}])$ at Band Edge and for all out-of-band emissions within 37.5 kHz of Block Edge		PASS
2.1046	*Conducted Output Power	N/A		PASS
2.1055, 90.213	Frequency stability / variation of ambient temperature	$< 2.5 \text{ ppm}$		PASS
90.635	Effective Radiated Power	$< 100 \text{ Watts}$	RADIATED	PASS
2.1053, 90.691	Undesirable Emissions	$< 43 + 10\log_{10}(P[\text{Watts}])$ for all out-of band emissions		PASS

6. SAMPLE CALCULATION

A. ERP Sample Calculation

Mode	Ch./ Freq.		Measured Level(dBm)	Substitute LEVEL(dBm)	Ant. Gain (dBd)	C.L	Pol.	ERP	
	channel	Freq.(MHz)						W	dBm
LTE Band26	26865	831.5	-33.04	28.94	-10.56	0.89	V	0.056	17.49

$$\text{ERP} = \text{Substitute LEVEL (dBm)} + \text{Ant. Gain} - \text{CL(Cable Loss)}$$

- 1) The EUT mounted on a wooden tripod is 2.5 meter above test site ground level.
- 2) During the test , the turn table is rotated and the antenna height is found.
- 3) Record the field strength meter's level.
- 4) Replace the EUT with dipole/Horn antenna that is connected to a calibrated signal generator.
- 5) Increase the signal generator output till the field strength meter's level is equal to the item (3).
- 6) The signal generator output level with Ant. Gain and cable loss are the rating of effective radiated power (ERP).

B. Emission Designator

QPSK Modulation

5MHz Bandwidth

Emission Designator = 4M48G7D

LTE BW = 4.48 MHz

G = Phase Modulation

7 = Quantized/Digital Info

D = Data transmission; telemetry; telecommand

10MHz Bandwidth

Emission Designator = 8M95G7D

LTE BW = 8.95 MHz

G = Phase Modulation

7 = Quantized/Digital Info

D = Data transmission; telemetry; telecommand

16QAM Modulation

5MHz Bandwidth

Emission Designator = 4M48W7D

LTE BW = 4.48 MHz

W = main carrier modulated in a combination of two or more of the following modes;

amplitude, angle, pulse

7 = Quantized/Digital Info

D = Data transmission; telemetry; telecommand

10MHz Bandwidth

Emission Designator = 8M95W7D

LTE BW = 8.95 MHz

W = main carrier modulated in a combination of two or more of the following modes;

amplitude, angle, pulse

7 = Quantized/Digital Info

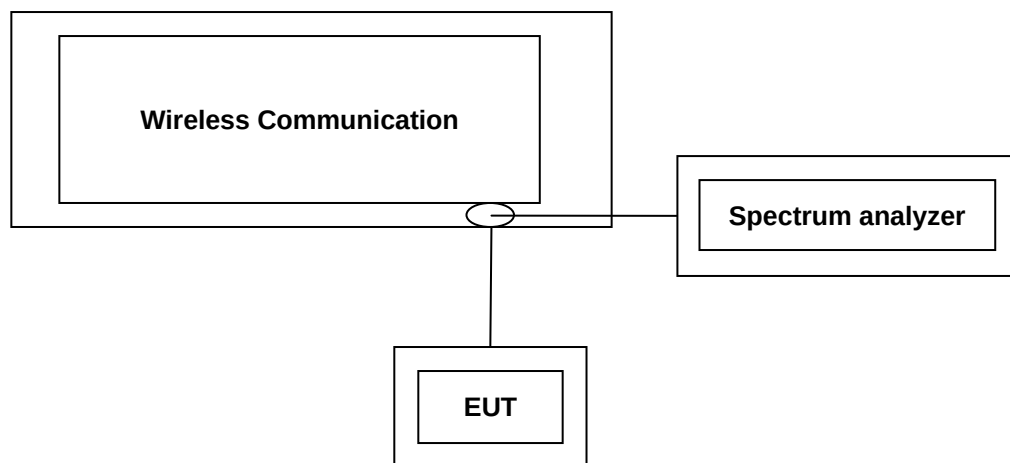
D = Data transmission; telemetry; telecommand

7. TEST DATA

7.1 CONDUCTED OUTPUT POWER

Conducted Output Power is tested in accordance with KDB971168 D01 Power Meas License Digital Systems v02r02, October 17, 2014, Section 5.2.

A base station simulator was used to establish communication with the EUT, and Spectrum analyzer was used for test results. This device was tested under all configurations and the highest power is reported. Conducted Output Powers of EUT are reported below.



Test Result

Band	Band Width (MHz)	Frequency (MHz)	Channel	Resource Block Size	Resource Block Offset	Average Power [dBm]	
						QPSK	16-QAM
Band 26	1.4	814.7	26697	1	0	24.18	23.37
				1	3	24.17	23.43
				1	5	24.06	23.37
				3	0	24.07	23.09
				3	1	24.14	23.20
				3	3	23.99	23.08
				6	0	23.09	22.20
		823.3	26783	1	0	23.90	23.16
				1	3	24.01	24.11
				1	5	24.03	23.26
				3	0	23.92	22.96
				3	1	24.00	23.05
				3	3	23.98	23.03
				6	0	23.02	22.11

LTE Conducted Average Output Powers (1.4 MHz Band 26 LTE)

Band	Band Width (MHz)	Frequency (MHz)	Channel	Resource Block Size	Resource Block Offset	Average Power [dBm]	
						QPSK	16-QAM
Band 26	3	815.5	26705	1	0	24.14	23.39
				1	7	24.26	23.52
				1	14	24.02	23.29
				8	0	23.16	22.24
				8	3	23.12	22.19
				8	7	23.12	22.20
				15	0	23.08	22.09
		822.5	26775	1	0	23.92	23.15
				1	7	23.99	23.24
				1	14	24.11	23.37
				8	0	23.10	22.07
				8	3	23.04	22.12
				8	7	23.09	22.17
				15	0	23.03	22.05

LTE Conducted Average Output Powers (3 MHz Band 26 LTE)

Band	Band Width (MHz)	Frequency (MHz)	Channel	Resource Block Size	Resource Block Offset	Average Power [dBm]	
						QPSK	16-QAM
Band 26	5	816.5	26715	1	0	24.16	23.38
				1	12	23.71	23.31
				1	24	23.86	23.17
				12	0	23.06	22.10
				12	6	23.22	22.20
				12	11	23.07	22.09
				25	0	23.17	22.17
		821.5	26765	1	0	23.86	23.13
				1	12	23.86	23.13
				1	24	24.05	23.30
				12	0	22.98	21.99
				12	6	23.01	22.04
				12	11	23.04	22.05
				25	0	23.01	22.04

LTE Conducted Average Output Powers (5 MHz Band 26 LTE)

Band	Band Width (MHz)	Frequency (MHz)	Channel	Resource Block Size	Resource Block Offset	Average Power [dBm]	
						QPSK	16-QAM
Band 26	10	819.0	26740	1	0	23.06	22.34
				1	24	23.03	22.32
				1	49	23.08	22.31
				25	0	21.91	20.98
				25	12	21.92	20.96
				25	24	21.98	20.97
				50	0	21.83	20.80

LTE Conducted Average Output Powers (10 MHz Band 26 LTE)

7.1.1 CONDUCTED POWER OUTPUT DATA

Frequency (MHz)	Bandwidth (MHz)	Resource Block Size	Resource Block Offset	Modulation	Conducted Power (Watts)	Conducted Power (dBm)	Conducted Power Limit (dBm)	Margin (dB)
814.70	1.4	1	0	QPSK	0.262	24.18	50.00	-25.82
823.30	1.4	1	5	QPSK	0.253	24.03	50.00	-25.97
814.70	1.4	1	3	16QAM	0.220	23.43	50.00	-26.57
823.30	1.4	1	3	16QAM	0.258	24.11	50.00	-25.89
815.50	3	1	7	QPSK	0.267	24.26	50.00	-25.74
822.50	3	1	14	QPSK	0.258	24.11	50.00	-25.89
815.50	3	1	7	16QAM	0.225	23.52	50.00	-26.48
822.50	3	1	14	16QAM	0.217	23.37	50.00	-26.63
816.50	5	1	0	QPSK	0.261	24.16	50.00	-25.84
821.50	5	1	24	QPSK	0.254	24.05	50.00	-25.95
816.50	5	1	0	16QAM	0.218	23.38	50.00	-26.62
821.50	5	1	24	16QAM	0.214	23.30	50.00	-26.70
819.00	10	1	0	QPSK	0.260	24.15	50.00	-25.85
819.00	10	1	49	16QAM	0.224	23.50	50.00	-26.50

Conducted Power Output Data

Note : Detecting mode is average.

7.2 EFFECTIVE RADIATED POWER (Band 26)-CLOSE

Freq (MHz)	Bandwidth	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain(dBd)	C.L	Pol	ERP	
								W	dBm
814.7	1.4 MHz	QPSK	-40.64	20.81	-10.63	0.87	V	0.009	9.31
		16-QAM	-41.14	20.31	-10.63	0.87	V	0.008	8.81
823.3		QPSK	-38.37	23.61	-10.59	0.89	V	0.016	12.13
		16-QAM	-39.28	22.70	-10.59	0.89	V	0.013	11.22

Effective Radiated Power Data (1.4 MHz Band 26 LTE)

Note: All of RB size has been tested for emissions and ERP, with the 1RB configuration observed as the worst case

Freq (MHz)	Bandwidth	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain(dBd)	C.L	Pol	ERP	
								W	dBm
815.5	3 MHz	QPSK	-40.63	20.82	-10.63	0.87	V	0.009	9.32
		16-QAM	-41.38	20.07	-10.63	0.87	V	0.007	8.57
822.5		QPSK	-38.48	23.41	-10.60	0.89	V	0.016	11.92
		16-QAM	-39.24	22.65	-10.60	0.89	V	0.013	11.16

Effective Radiated Power Data (3 MHz Band 26 LTE)

Note: All of RB size has been tested for emissions and ERP, with the 1RB configuration observed as the worst case

Freq (MHz)	Bandwidth	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain(dBd)	C.L	Pol	ERP	
								W	dBm
816.5	5 MHz	QPSK	-40.53	20.92	-10.63	0.87	V	0.009	9.42
		16-QAM	-41.22	20.23	-10.63	0.87	V	0.007	8.73
821.5		QPSK	-38.90	22.89	-10.60	0.89	V	0.014	11.40
		16-QAM	-39.64	22.15	-10.60	0.89	V	0.012	10.66

Effective Radiated Power Data (5 MHz Band 26 LTE)

Note: All of RB size has been tested for emissions and ERP, with the 1RB configuration observed as the worst case

Freq (MHz)	Bandwidth	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain(dBd)	C.L	Pol	ERP	
								W	dBm
819.0	10 MHz	QPSK	-40.51	21.26	-10.61	0.87	V	0.009	9.78
		16-QAM	-41.20	20.57	-10.61	0.87	V	0.008	9.09

Effective Radiated Power Data (10 MHz Band 26 LTE)

Note: All of RB size has been tested for emissions and ERP, with the 1RB configuration observed as the worst case

NOTES:

Effective Radiated Power Output Measurements by Substitution Method

according to ANSI/TIA/EIA-603-D-2010 June 24, 2010:

The EUT was placed on a non-conductive styrofoam resin table 3-meters from the receive antenna. The receive antenna height and turntable rotation was adjusted for the highest reading on the receive spectrum analyzer. For LTE signals, RBW = 1-5% of the OBW, not to exceed 1MHz, VBW ≥ 3 x RBW, Detector = RMS. A half-wave dipole was substituted in place of the EUT. This dipole antenna was driven by a signal generator and the level of the signal generator was adjusted to obtain the same receive spectrum analyzer reading. The conducted power at the terminals of the dipole is measured. The ERP is recorded.

Also, we have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna. The worst case of the EUT is y plane in LTE mode. Also worst case of detecting Antenna is vertical polarization in LTE mode.

7.3 EFFECTIVE RADIATED POWER (Band 26)-OPEN

Freq (MHz)	Bandwidth	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain(dBd)	C.L	Pol	ERP	
								W	dBm
814.7	1.4 MHz	QPSK	-39.49	21.96	-10.63	0.87	H	0.011	10.46
		16-QAM	-40.32	21.13	-10.63	0.87	H	0.009	9.63
823.3		QPSK	-37.98	24.00	-10.59	0.89	H	0.018	12.52
		16-QAM	-38.75	23.23	-10.59	0.89	H	0.015	11.75

Effective Radiated Power Data (1.4 MHz Band 26 LTE)

Note: All of RB size has been tested for emissions and ERP, with the 1RB configuration observed as the worst case

Freq (MHz)	Bandwidth	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain(dBd)	C.L	Pol	ERP	
								W	dBm
815.5	3 MHz	QPSK	-39.63	21.82	-10.63	0.87	H	0.011	10.32
		16-QAM	-40.24	21.21	-10.63	0.87	H	0.009	9.71
822.5		QPSK	-38.20	23.69	-10.60	0.89	H	0.017	12.20
		16-QAM	-38.93	22.96	-10.60	0.89	H	0.014	11.47

Effective Radiated Power Data (3 MHz Band 26 LTE)

Note: All of RB size has been tested for emissions and ERP, with the 1RB configuration observed as the worst case

Freq (MHz)	Bandwidth	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain(dBd)	C.L	Pol	ERP	
								W	dBm
816.5	5 MHz	QPSK	-39.62	21.83	-10.63	0.87	H	0.011	10.33
		16-QAM	-40.29	21.16	-10.63	0.87	H	0.009	9.66
821.5		QPSK	-38.60	23.19	-10.60	0.89	H	0.015	11.70
		16-QAM	-39.38	22.41	-10.60	0.89	H	0.012	10.92

Effective Radiated Power Data (5 MHz Band 26 LTE)

Note: All of RB size has been tested for emissions and ERP, with the 1RB configuration observed as the worst case

Freq (MHz)	Bandwidth	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain(dBd)	C.L	Pol	ERP	
								W	dBm
819.0	10 MHz	QPSK	-39.69	22.08	-10.61	0.87	H	0.011	10.60
		16-QAM	-40.31	21.46	-10.61	0.87	H	0.010	9.98

Effective Radiated Power Data (10 MHz Band 26 LTE)

Note: All of RB size has been tested for emissions and ERP, with the 1RB configuration observed as the worst case

NOTES:

Effective Radiated Power Output Measurements by Substitution Method

according to ANSI/TIA/EIA-603-D-2010 June 24, 2010:

The EUT was placed on a non-conductive styrofoam resin table 3-meters from the receive antenna. The receive antenna height and turntable rotation was adjusted for the highest reading on the receive spectrum analyzer. For LTE signals, RBW = 1-5% of the OBW, not to exceed 1MHz, VBW ≥ 3 x RBW, Detector = RMS. A half-wave dipole was substituted in place of the EUT. This dipole antenna was driven by a signal generator and the level of the signal generator was adjusted to obtain the same receive spectrum analyzer reading. The conducted power at the terminals of the dipole is measured. The ERP is recorded.

Also, we have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna. The worst case of the EUT is z plane in LTE mode. Also worst case of detecting Antenna is horizontal polarization in LTE mode.

7.4 RADIATED SPURIOUS EMISSIONS-CLOSE

7.4.1 RADIATED SPURIOUS EMISSIONS (1.4 MHz Band 26 LTE)

- OPERATING FREQUENCY: 823.30 MHz
- MEASURED OUTPUT POWER: 12.13 dBm = 0.016 W
- MODULATION SIGNAL: 1.4 MHz QPSK
- DISTANCE: 3 meters
- LIMIT: $43 + 10 \log_{10} (W) =$ 25.13 dBc

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBd)	Substitute Level (dBm)	C.L	Pol	ERP (dBm)	dBc
26697 (814.7)	1,629.40	-37.32	9.55	-45.17	1.28	H	-36.90	49.03
	2,444.10	-40.12	10.51	-45.16	1.59	V	-36.24	48.37
	3,258.80	-57.71	11.98	-61.96	1.83	H	-51.81	63.94
26783 (823.3)	1,646.60	-37.45	9.67	-45.16	1.28	H	-36.77	48.90
	2,469.90	-33.78	10.54	-38.96	1.60	H	-30.02	42.15
	3,293.20	-53.36	12.18	-58.42	1.84	H	-48.08	60.21

- NOTES:**
1. Radiated Spurious Emission Measurements at 3 meters by Substitution Method according to ANSI/TIA/EIA-603-D-2010 June 24, 2010:
 2. We are performed all frequency to 10th harmonics from 30 MHz. Measurements above show only up to 3 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
 3. we have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
 4. All of RB size has been tested for emissions and ERP, with the 1RB configuration observed as the worst case
 5. We are performed 16QAM and QPSK modulations. The worst case data are reported in the table above.

7.4.2 RADIATED SPURIOUS EMISSIONS (3 MHz Band 26 LTE)

- OPERATING FREQUENCY: 822.50 MHz
- MEASURED OUTPUT POWER: 11.92 dBm = 0.016 W
- MODULATION SIGNAL: 3 MHz QPSK
- DISTANCE: 3 meters
- LIMIT: $43 + 10 \log_{10}(W) =$ 24.92 dBc

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBd)	Substitute Level (dBm)	C.L	Pol	ERP (dBm)	dBc
26705 (815.5)	1,631.00	-37.22	9.55	-45.07	1.28	H	-36.80	48.72
	2,446.50	-41.37	10.51	-46.41	1.59	V	-37.49	49.41
	3,262.00	-53.37	12.18	-63.71	1.84	H	-53.37	65.29
26775 (822.5)	1,645.00	-38.94	9.67	-46.99	1.28	H	-38.60	50.52
	2,467.50	-34.33	10.54	-39.51	1.60	V	-30.57	42.49
	3,290.00	-52.87	12.18	-57.93	1.84	H	-47.59	59.51

- NOTES:**
1. Radiated Spurious Emission Measurements at 3 meters by Substitution Method according to ANSI/TIA/EIA-603-D-2010 June 24, 2010:
 2. We are performed all frequency to 10th harmonics from 30 MHz. Measurements above show only up to 3 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
 3. we have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
 4. All of RB size has been tested for emissions and ERP, with the 1RB configuration observed as the worst case
 5. We are performed 16QAM and QPSK modulations. The worst case data are reported in the table above.

7.4.3 RADIATED SPURIOUS EMISSIONS (5 MHz Band 26 LTE)

- OPERATING FREQUENCY: 821.50 MHz
- MEASURED OUTPUT POWER: 11.40 dBm = 0.014 W
- MODULATION SIGNAL: 5 MHz QPSK
- DISTANCE: 3 meters
- LIMIT: $43 + 10 \log_{10}(W) =$ 24.40 dBc

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBd)	Substitute Level (dBm)	C.L	Pol	ERP (dBm)	dBc
26715 (816.5)	1,633.00	-37.16	9.59	-45.12	1.28	H	-36.81	48.21
	2,449.50	-41.18	10.54	-46.16	1.59	V	-37.21	48.61
	3,266.00	-55.05	12.02	-59.59	1.83	H	-49.40	60.80
26765 (821.5)	1,643.00	-40.71	9.63	-48.77	1.28	V	-40.42	51.82
	2,464.50	-36.23	10.54	-41.37	1.61	H	-32.44	43.84
	3,386.00	-53.57	12.41	-59.00	1.85	V	-48.44	59.84

- NOTES:**
1. Radiated Spurious Emission Measurements at 3 meters by Substitution Method according to ANSI/TIA/EIA-603-D-2010 June 24, 2010:
 2. We are performed all frequency to 10th harmonics from 30 MHz. Measurements above show only up to 3 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
 3. we have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
 4. All of RB size has been tested for emissions and ERP, with the 1RB configuration observed as the worst case
 5. We are performed 16QAM and QPSK modulations. The worst case data are reported in the table above.

7.4.4 RADIATED SPURIOUS EMISSIONS (10 MHz Band 26 LTE)

- OPERATING FREQUENCY: 819.00 MHz
- MEASURED OUTPUT POWER: 9.78 dBm = 0.009 W
- MODULATION SIGNAL: 10 MHz QPSK
- DISTANCE: 3 meters
- LIMIT: $43 + 10 \log_{10}(W) =$ 22.78 dBc

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBd)	Substitute Level (dBm)	C.L	Pol	ERP (dBm)	dBc
26740 (819.0)	1,638.00	-37.67	9.63	-45.73	1.28	H	-37.38	47.16
	2,457.00	-38.14	10.54	-43.24	1.62	V	-34.32	44.10
	3,276.00	-54.09	12.06	-58.82	1.82	H	-48.58	58.36

- NOTES:**
1. Radiated Spurious Emission Measurements at 3 meters by Substitution Method according to ANSI/TIA/EIA-603-D-2010 June 24, 2010:
 2. We are performed all frequency to 10th harmonics from 30 MHz. Measurements above show only up to 3 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
 3. we have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
 4. All of RB size has been tested for emissions and ERP, with the 1RB configuration observed as the worst case
 5. We are performed 16QAM and QPSK modulations. The worst case data are reported in the table above.

7.5 RADIATED SPURIOUS EMISSIONS-OPEN

7.5.1 RADIATED SPURIOUS EMISSIONS (1.4 MHz Band 26 LTE)

- OPERATING FREQUENCY: 823.30 MHz
- MEASURED OUTPUT POWER: 12.52 dBm = 0.018 W
- MODULATION SIGNAL: 1.4 MHz QPSK
- DISTANCE: 3 meters
- LIMIT: $43 + 10 \log_{10} (W) =$ 25.52 dBc

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBd)	Substitute Level (dBm)	C.L	Pol	ERP (dBm)	dBc
26697 (814.7)	1,629.40	-34.65	9.55	-42.50	1.28	V	-34.23	46.75
	2,444.10	-39.43	10.51	-44.47	1.59	H	-35.55	48.07
	3,258.80	-56.37	11.98	-60.62	1.83	H	-50.47	62.99
26783 (823.3)	1,646.60	-35.46	9.67	-43.17	1.28	H	-34.78	47.30
	2,469.90	-32.73	10.54	-37.91	1.60	H	-28.97	41.49
	3,293.20	-53.71	12.18	-58.77	1.84	H	-48.43	60.95

- NOTES:**
1. Radiated Spurious Emission Measurements at 3 meters by Substitution Method according to ANSI/TIA/EIA-603-D-2010 June 24, 2010:
 2. We are performed all frequency to 10th harmonics from 30 MHz. Measurements above show only up to 3 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
 3. we have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
 4. All of RB size has been tested for emissions and ERP, with the 1RB configuration observed as the worst case
 5. We are performed 16QAM and QPSK modulations. The worst case data are reported in the table above.

7.5.2 RADIATED SPURIOUS EMISSIONS (3 MHz Band 26 LTE)

- OPERATING FREQUENCY: 822.50 MHz
- MEASURED OUTPUT POWER: 12.20 dBm = 0.017 W
- MODULATION SIGNAL: 3 MHz QPSK
- DISTANCE: 3 meters
- LIMIT: $43 + 10 \log_{10}(W) =$ 25.20 dBc

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBd)	Substitute Level (dBm)	C.L	Pol	ERP (dBm)	dBc
26705 (815.5)	1,631.00	-34.50	9.55	-42.35	1.28	V	-34.08	46.28
	2,446.50	-38.55	10.51	-43.59	1.59	V	-34.67	46.87
	3,262.00	-56.39	12.18	-66.73	1.84	V	-56.39	68.59
26775 (822.5)	1,645.00	-36.65	9.67	-44.70	1.28	V	-36.31	48.51
	2,467.50	-31.81	10.54	-36.99	1.60	V	-28.05	40.25
	3,290.00	-54.11	12.18	-59.17	1.84	H	-48.83	61.03

- NOTES:**
1. Radiated Spurious Emission Measurements at 3 meters by Substitution Method according to ANSI/TIA/EIA-603-D-2010 June 24, 2010:
 2. We are performed all frequency to 10th harmonics from 30 MHz. Measurements above show only up to 3 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
 3. we have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
 4. All of RB size has been tested for emissions and ERP, with the 1RB configuration observed as the worst case
 5. We are performed 16QAM and QPSK modulations. The worst case data are reported in the table above.

7.5.3 RADIATED SPURIOUS EMISSIONS (5 MHz Band 26 LTE)

- OPERATING FREQUENCY: 821.50 MHz
- MEASURED OUTPUT POWER: 11.70 dBm = 0.015 W
- MODULATION SIGNAL: 5 MHz QPSK
- DISTANCE: 3 meters
- LIMIT: $43 + 10 \log_{10}(W) =$ 24.70 dBc

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBd)	Substitute Level (dBm)	C.L	Pol	ERP (dBm)	dBc
26715 (816.5)	1,633.00	-34.75	9.59	-42.71	1.28	V	-34.40	46.10
	2,449.50	-37.39	10.54	-42.37	1.59	V	-33.42	45.12
	3,266.00	-55.95	12.02	-60.49	1.83	H	-50.30	62.00
26765 (821.5)	1,643.00	-38.92	9.63	-46.98	1.28	H	-38.63	50.33
	2,464.50	-32.96	10.54	-38.10	1.61	V	-29.17	40.87
	3,386.00	-53.97	12.41	-59.40	1.85	H	-48.84	60.54

- NOTES:**
1. Radiated Spurious Emission Measurements at 3 meters by Substitution Method according to ANSI/TIA/EIA-603-D-2010 June 24, 2010:
 2. We are performed all frequency to 10th harmonics from 30 MHz. Measurements above show only up to 3 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
 3. we have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
 4. All of RB size has been tested for emissions and ERP, with the 1RB configuration observed as the worst case
 5. We are performed 16QAM and QPSK modulations. The worst case data are reported in the table above.

7.5.4 RADIATED SPURIOUS EMISSIONS (10 MHz Band 26 LTE)

- OPERATING FREQUENCY: 819.00 MHz
- MEASURED OUTPUT POWER: 10.60 dBm = 0.011 W
- MODULATION SIGNAL: 10 MHz QPSK
- DISTANCE: 3 meters
- LIMIT: $43 + 10 \log_{10}(W) =$ 23.60 dBc

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBd)	Substitute Level (dBm)	C.L	Pol	ERP (dBm)	dBc
26740 (819.0)	1,638.00	-33.52	9.63	-41.58	1.28	V	-33.23	43.83
	2,457.00	-40.68	10.54	-45.78	1.62	H	-36.86	47.46
	3,276.00	-55.55	12.06	-60.28	1.82	V	-50.04	60.64

- NOTES:**
1. Radiated Spurious Emission Measurements at 3 meters by Substitution Method according to ANSI/TIA/EIA-603-D-2010 June 24, 2010:
 2. We are performed all frequency to 10th harmonics from 30 MHz. Measurements above show only up to 3 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
 3. we have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
 4. All of RB size has been tested for emissions and ERP, with the 1RB configuration observed as the worst case
 5. We are performed 16QAM and QPSK modulations. The worst case data are reported in the table above.

7.6 OCCUPIED BANDWIDTH

Band	Band Width	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	Data (MHz)
Band 26	1.4 MHz	814.7	QPSK	6	0	1.0818
			16-QAM			1.0805
		823.3	QPSK			1.0809
			16-QAM			1.0824
	3 MHz	815.5	QPSK	15		2.6806
			16-QAM			2.6853
		822.5	QPSK			2.6799
			16-QAM			2.6872
	5 MHz	816.5	QPSK	25		4.4734
			16-QAM			4.4681
		821.5	QPSK			4.4674
			16-QAM			4.4773
	10 MHz	819.0	QPSK	50		8.9717
			16-QAM			8.9367

- Plots of the EUT's Occupied Bandwidth are shown Page 37 ~ 43.

7.7 CONDUCTED SPURIOUS EMISSIONS

Band	Band Width (MHz)	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	Frequency of Maximum Harmonic (GHz)	Maximum Data [dBm]
Band 26	1.4	814.7	QPSK	1	0	2.6862	-31.990
		823.3				2.5804	-32.240
	3	815.5				2.6688	-32.320
		822.5				3.1699	-31.752
	5	816.5				3.1962	-32.297
		821.5				1.6389	-31.01
	10	819.0				1.6295	-32.287

- Plots of the EUT's Conducted Spurious Emissions are shown Page 47 ~ 54.

7.7.1 BAND EDGE

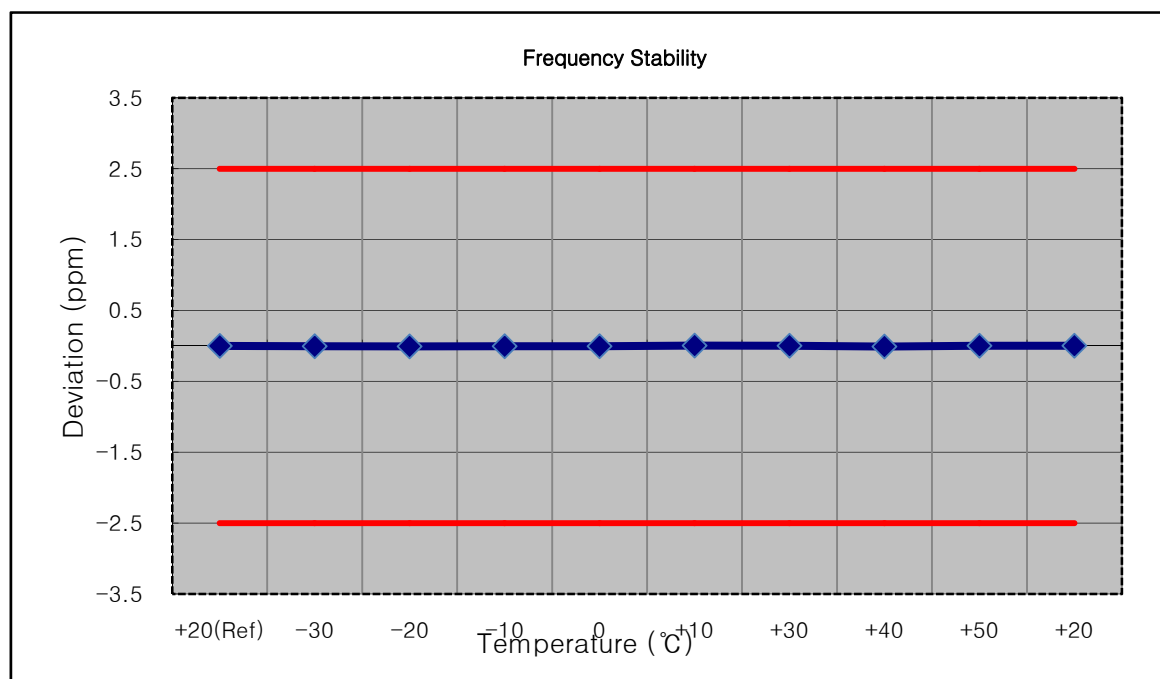
- Plots of the EUT's Band Edge are shown Page 44 ~ 47.

7.8 FREQUENCY STABILITY / VARIATION OF AMBIENT TEMPERATURE

7.8.1 FREQUENCY STABILITY (3 MHz Band 26 LTE)

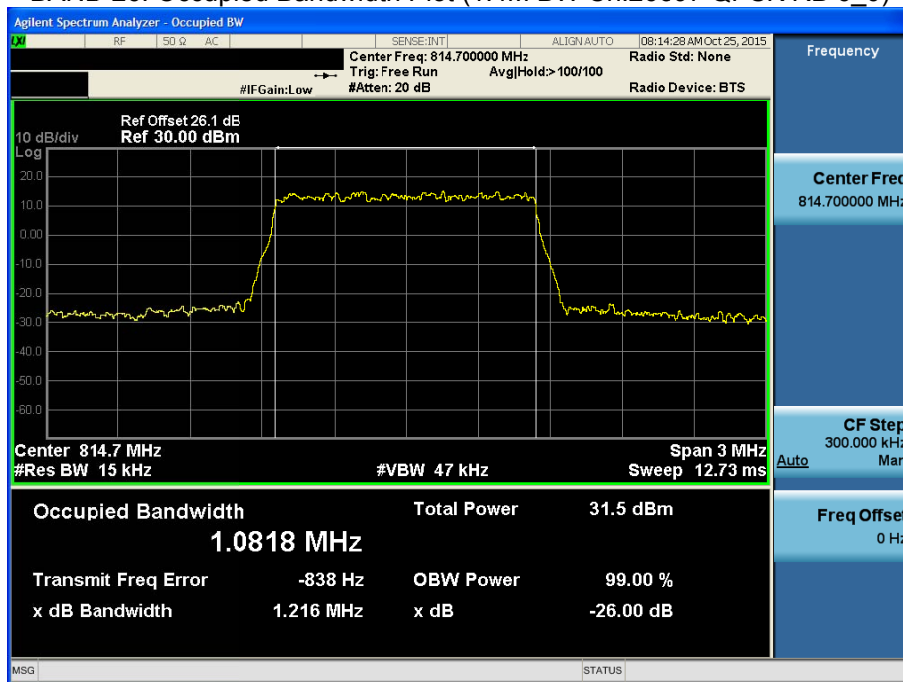
- OPERATING FREQUENCY: 815,500,000 Hz
- CHANNEL: 23705(3 MHz)
- REFERENCE VOLTAGE: 3.85 VDC
- DEVIATION LIMIT: ± 0.000 25 % or 2.5 ppm

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
100%	3.85	+20(Ref)	815 499 996	0.0	0.000 000	0.000
100%		-30	815 499 993	-3.4	0.000 000	-0.004
100%		-20	815 499 992	-4.1	-0.000 001	-0.005
100%		-10	815 499 993	-2.8	0.000 000	-0.003
100%		0	815 499 994	-2.7	0.000 000	-0.003
100%		+10	815 500 000	3.8	0.000 000	0.005
100%		+30	815 499 992	-4.0	0.000 000	-0.005
100%		+40	815 499 999	2.7	0.000 000	0.003
100%		+50	815 499 991	-5.7	-0.000 001	-0.007
Batt. Endpoint	3.27	+20	815 499 999	2.6	0.000 000	0.003

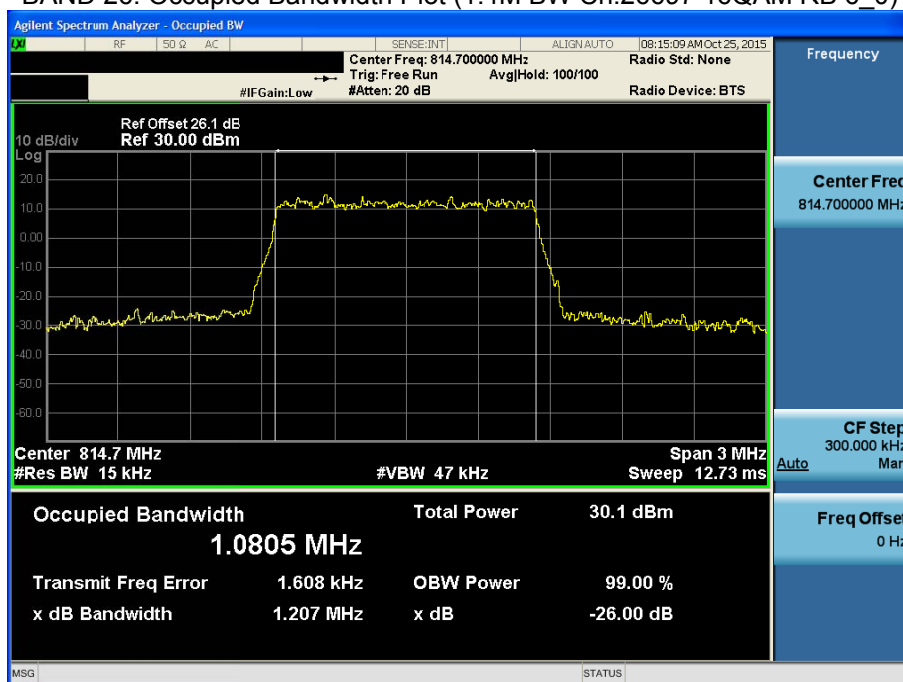


8. TEST PLOTS

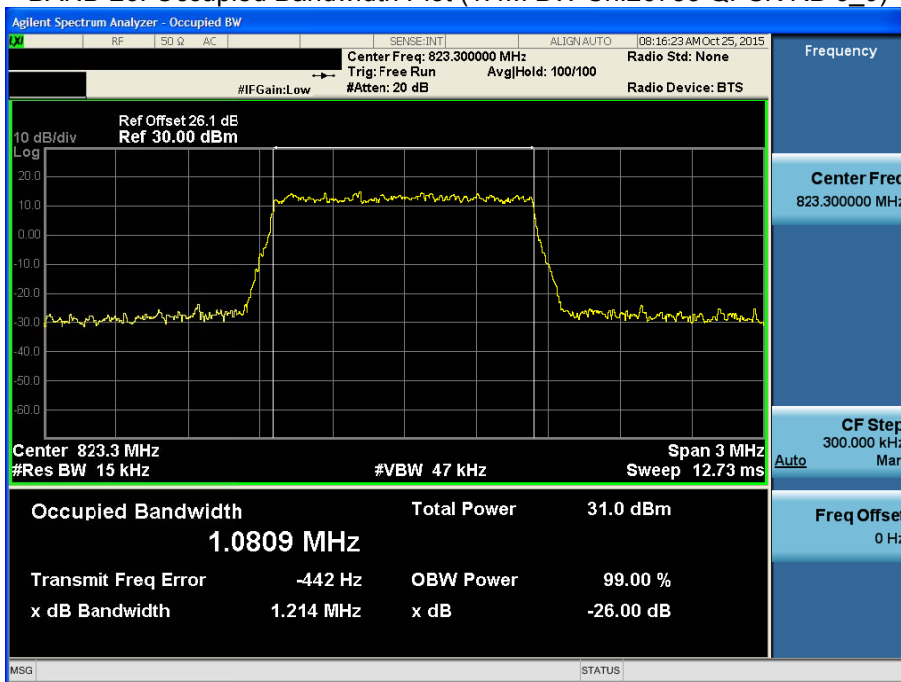
BAND 26. Occupied Bandwidth Plot (1.4M BW Ch.26697 QPSK RB 6_0)



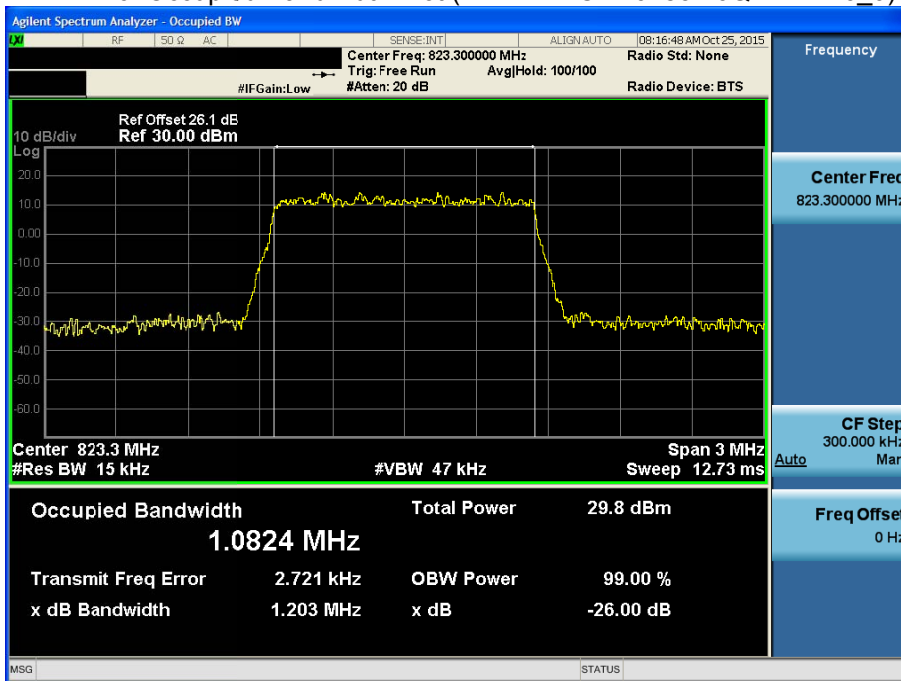
BAND 26. Occupied Bandwidth Plot (1.4M BW Ch.26697 16QAM RB 6_0)



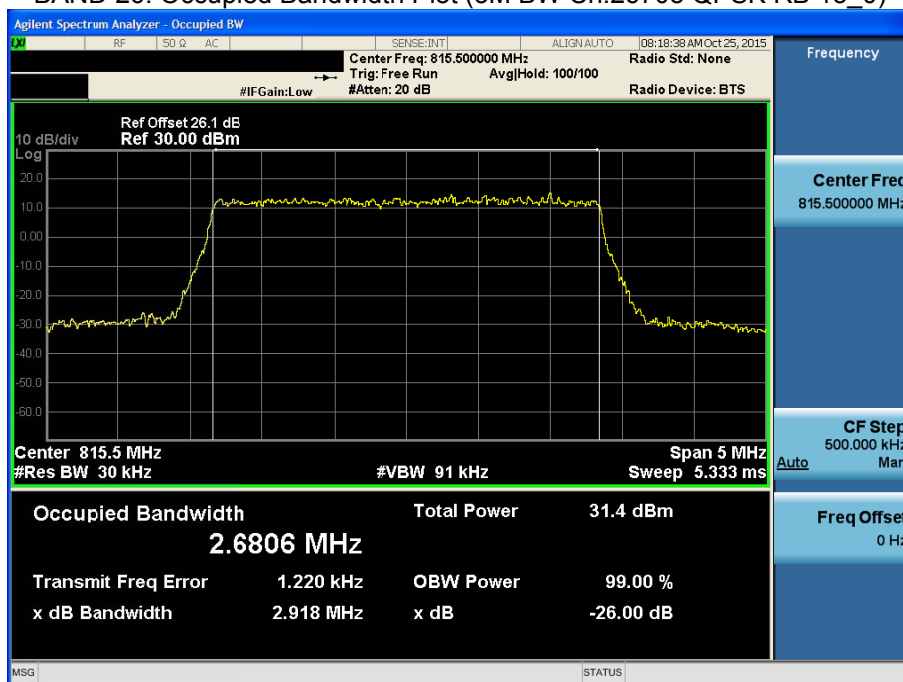
BAND 26. Occupied Bandwidth Plot (1.4M BW Ch.26783 QPSK RB 6_0)



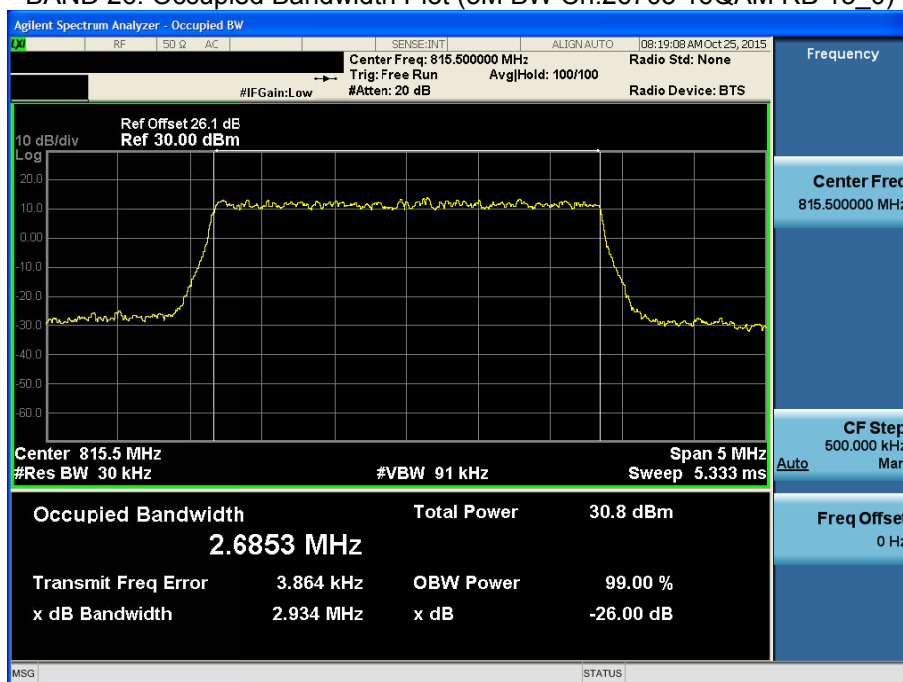
BAND 26. Occupied Bandwidth Plot (1.4M BW Ch.26783 16QAM RB 6_0)



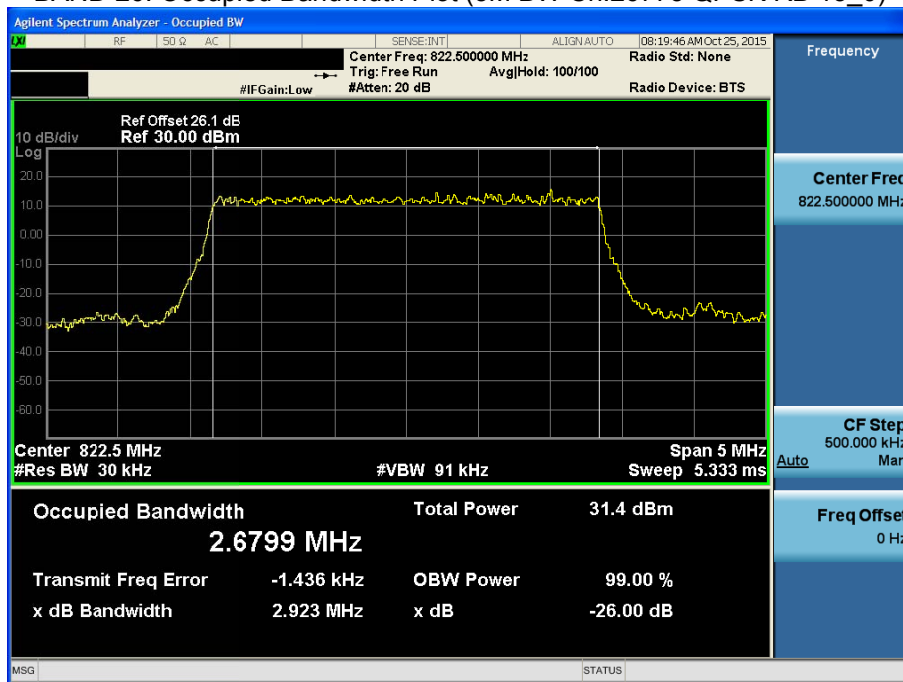
BAND 26. Occupied Bandwidth Plot (3M BW Ch.26705 QPSK RB 15_0)



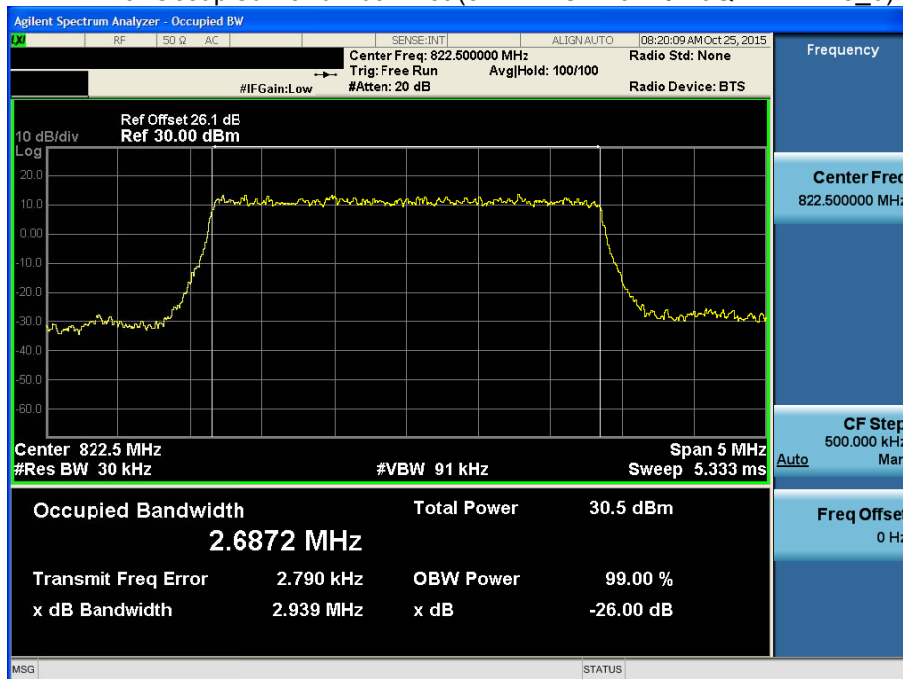
BAND 26. Occupied Bandwidth Plot (3M BW Ch.26705 16QAM RB 15_0)



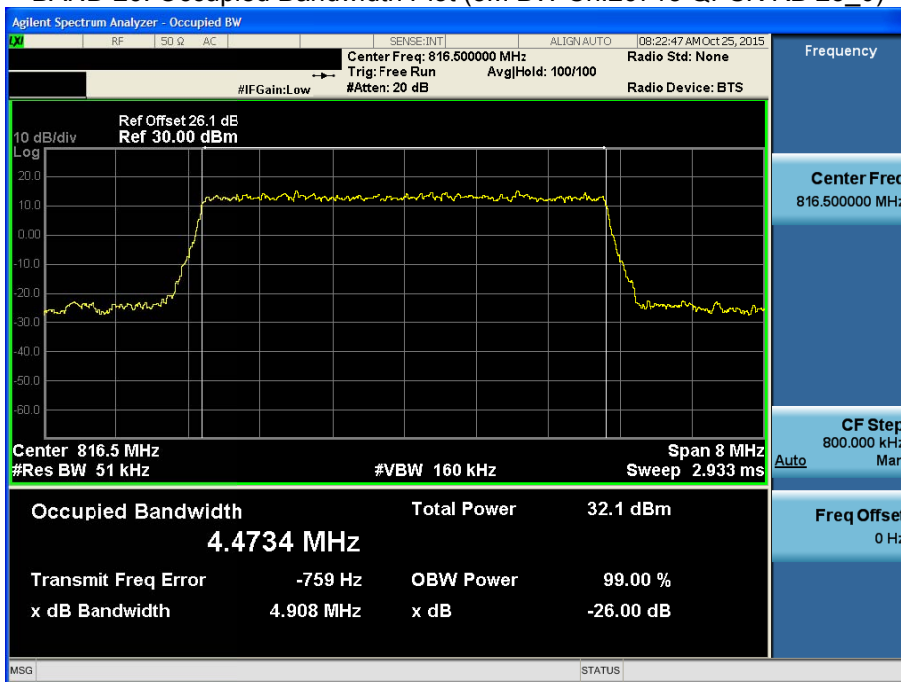
BAND 26. Occupied Bandwidth Plot (3M BW Ch.26775 QPSK RB 15_0)



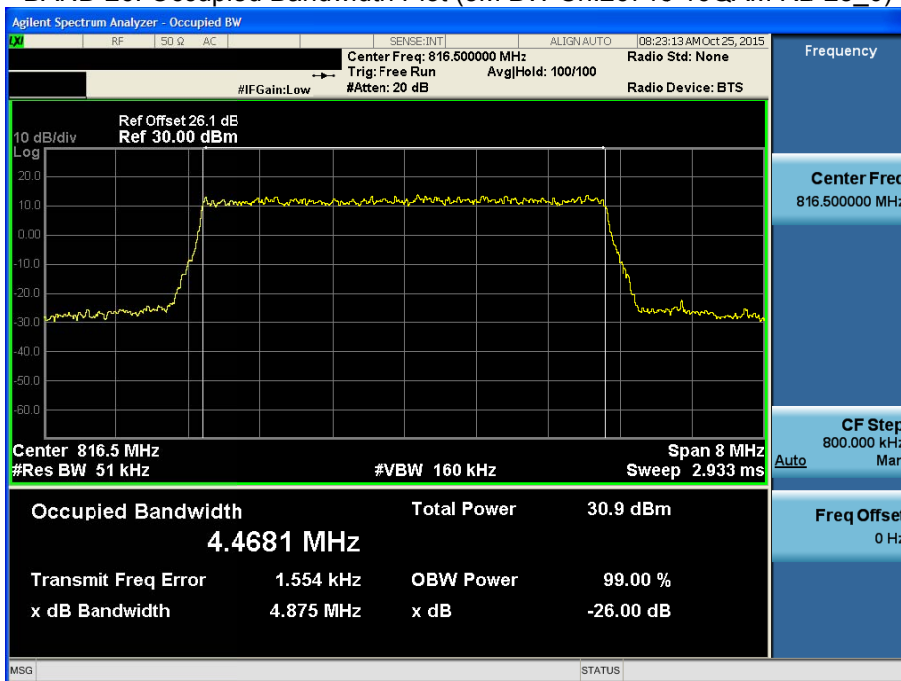
BAND 26. Occupied Bandwidth Plot (3M BW Ch.26775 16QAM RB 15_0)



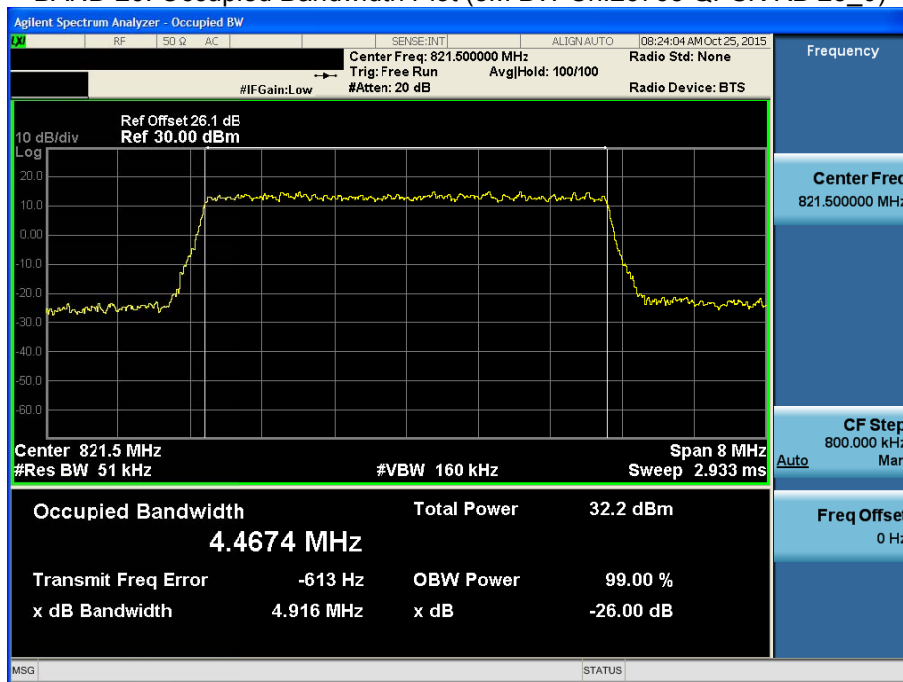
BAND 26. Occupied Bandwidth Plot (5M BW Ch.26715 QPSK RB 25_0)



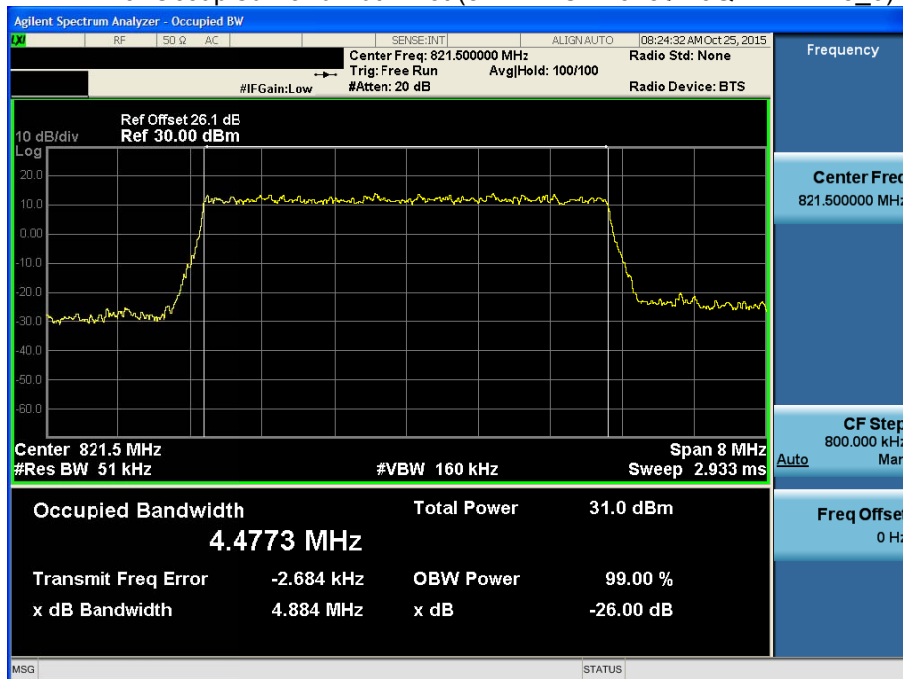
BAND 26. Occupied Bandwidth Plot (5M BW Ch.26715 16QAM RB 25_0)



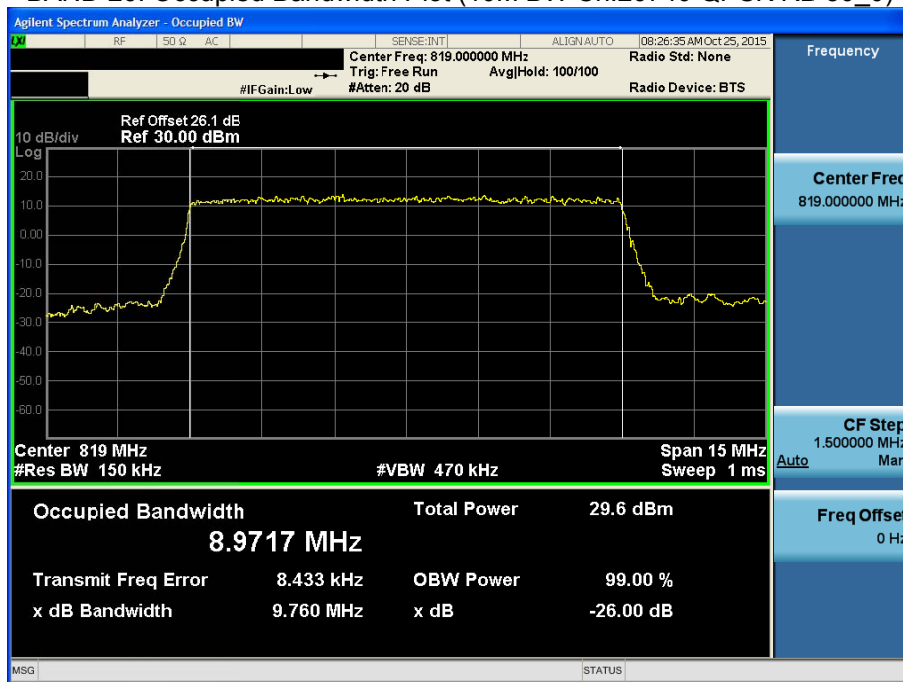
BAND 26. Occupied Bandwidth Plot (5M BW Ch.26765 QPSK RB 25_0)



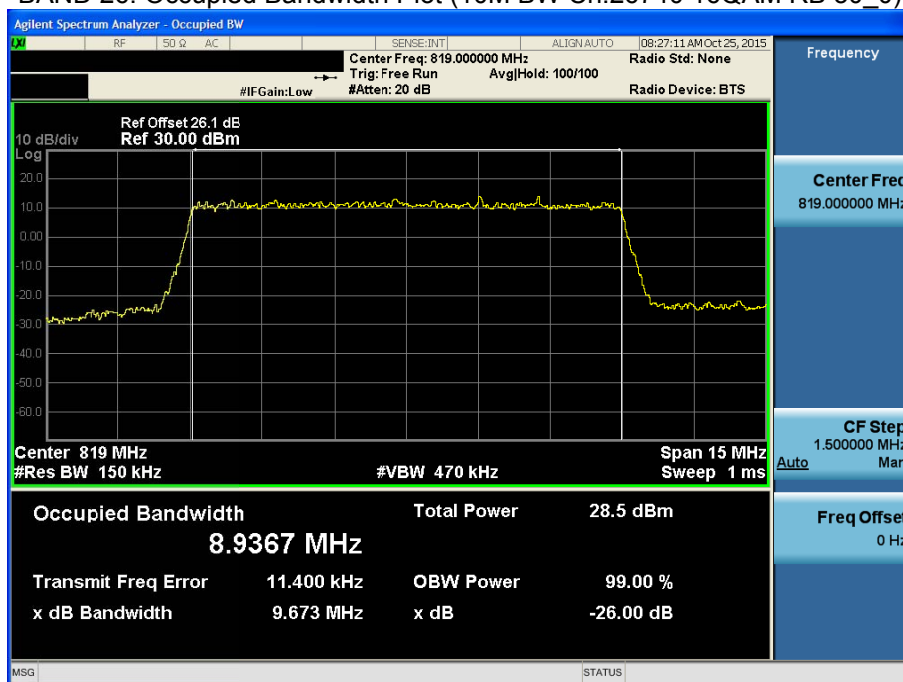
BAND 26. Occupied Bandwidth Plot (5M BW Ch.26756 16QAM RB 25_0)



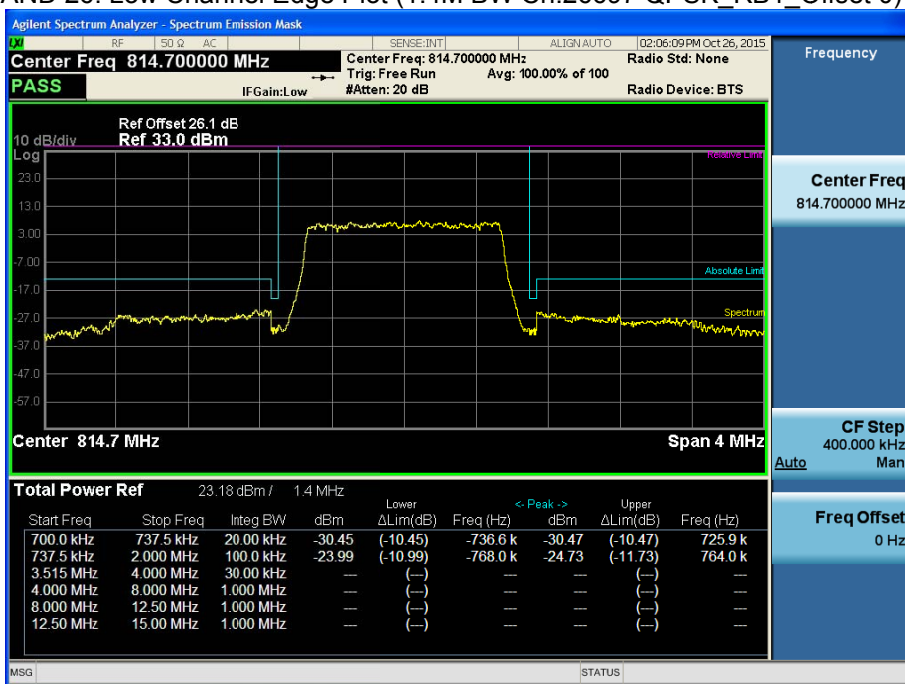
BAND 26. Occupied Bandwidth Plot (10M BW Ch.26740 QPSK RB 50_0)



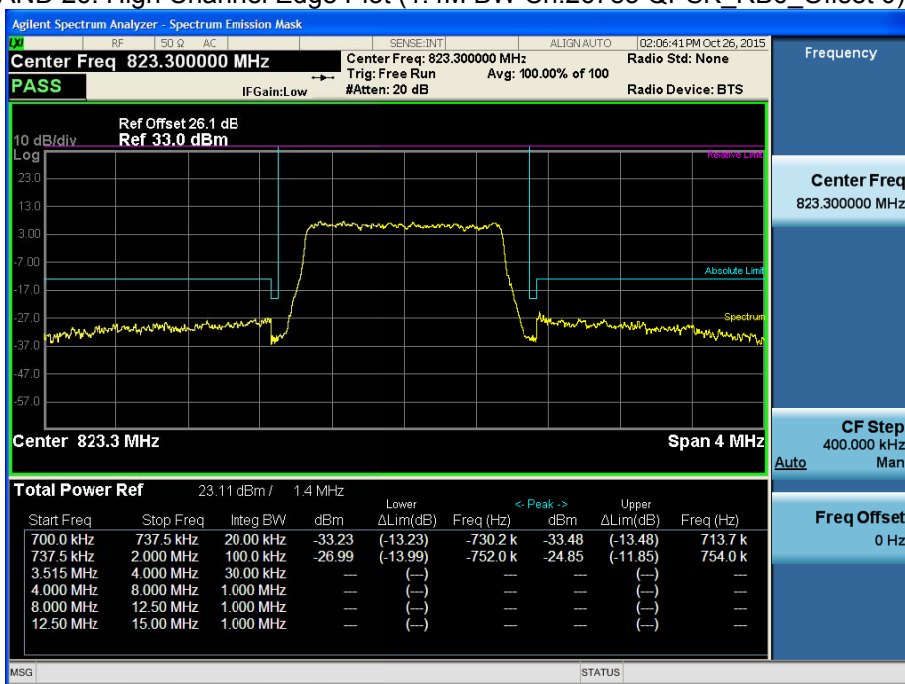
BAND 26. Occupied Bandwidth Plot (10M BW Ch.26740 16QAM RB 50_0)



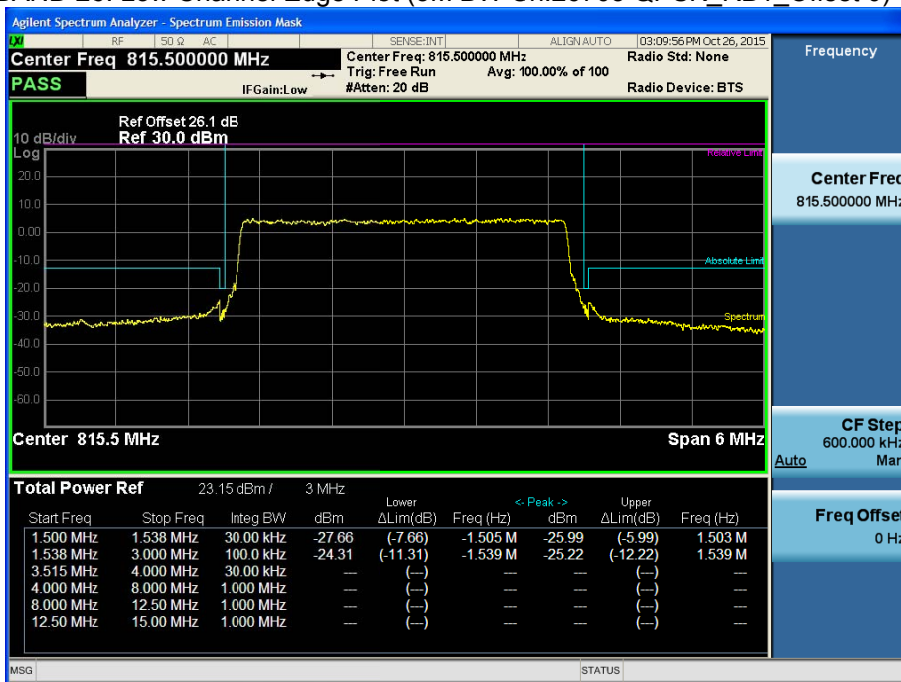
BAND 26. Low Channel Edge Plot (1.4M BW Ch.26697 QPSK_RB1_Offset 0) -1



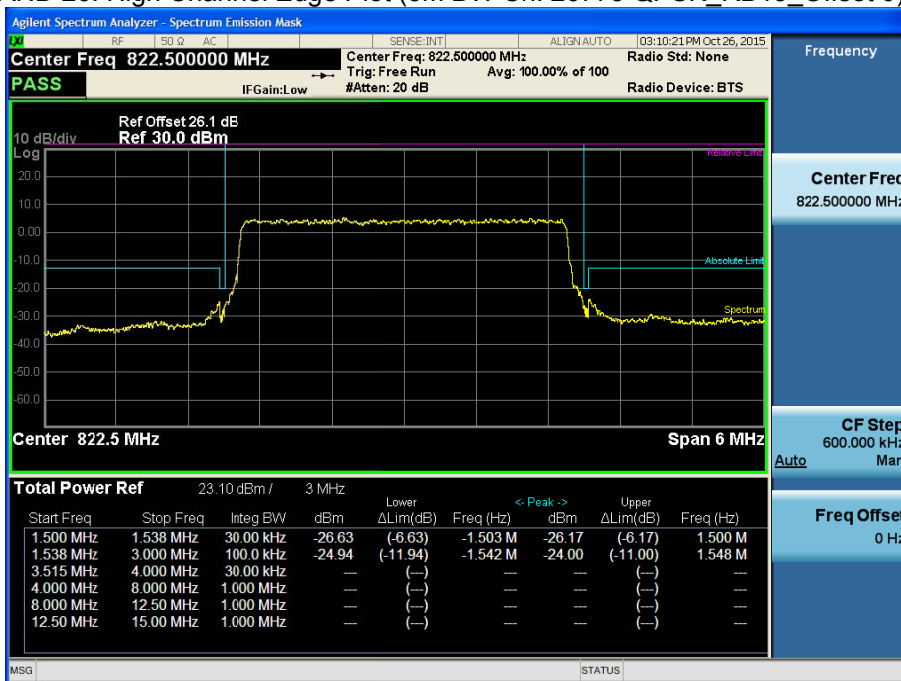
BAND 26. High Channel Edge Plot (1.4M BW Ch.26783 QPSK_RB6_Offset 0) -2



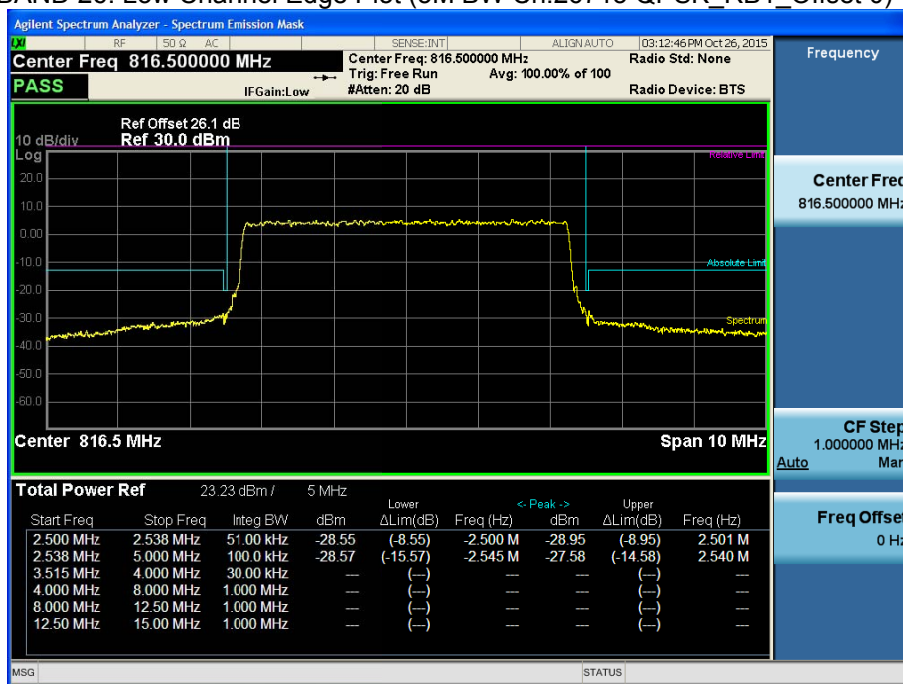
BAND 26. Low Channel Edge Plot (3M BW Ch.26705 QPSK_RB1_Offset 0) -1



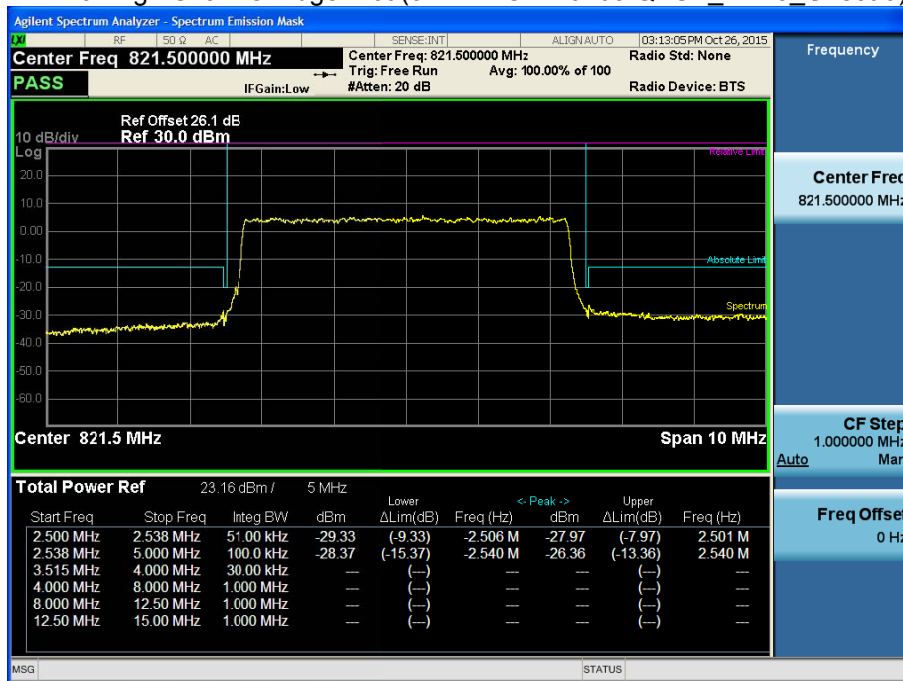
BAND 26. High Channel Edge Plot (3M BW Ch. 26775 QPSK_RB15_Offset 0) -2



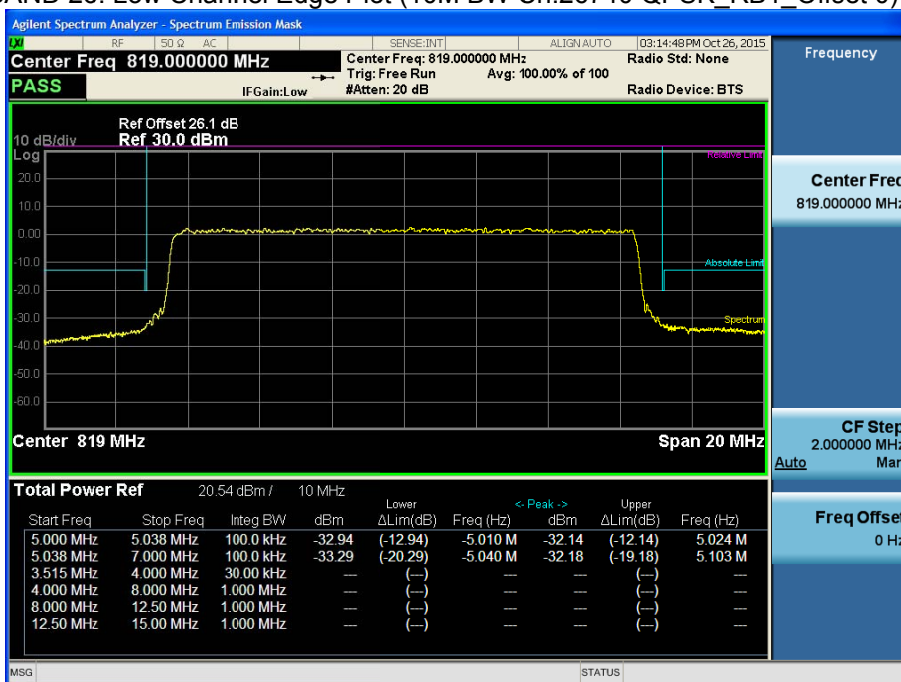
BAND 26. Low Channel Edge Plot (5M BW Ch.26715 QPSK_RB1_Offset 0) -1



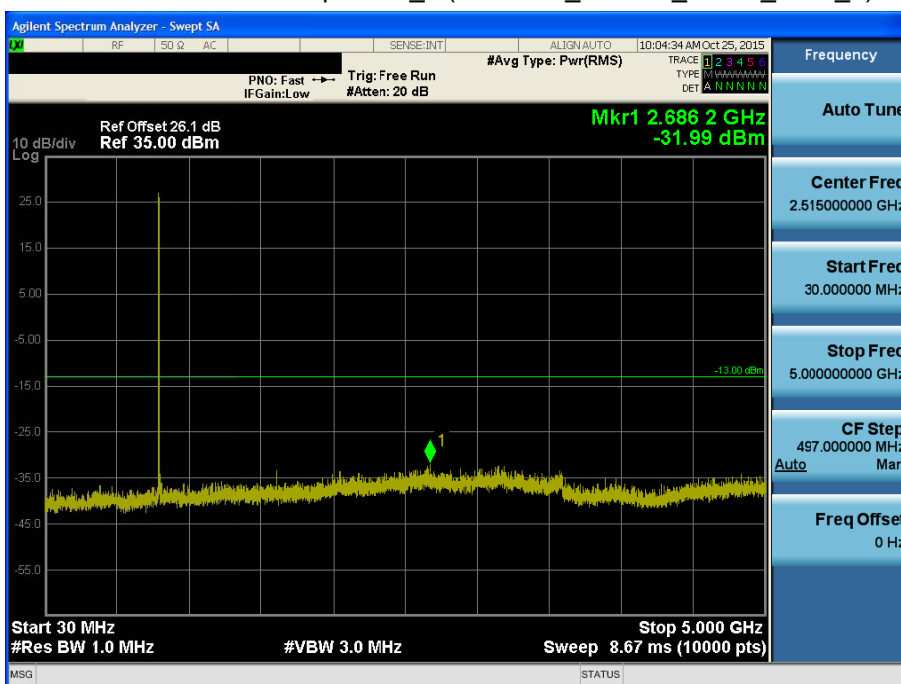
BAND 26. High Channel Edge Plot (5M BW Ch. 26765 QPSK_RB25_Offset 0) -2



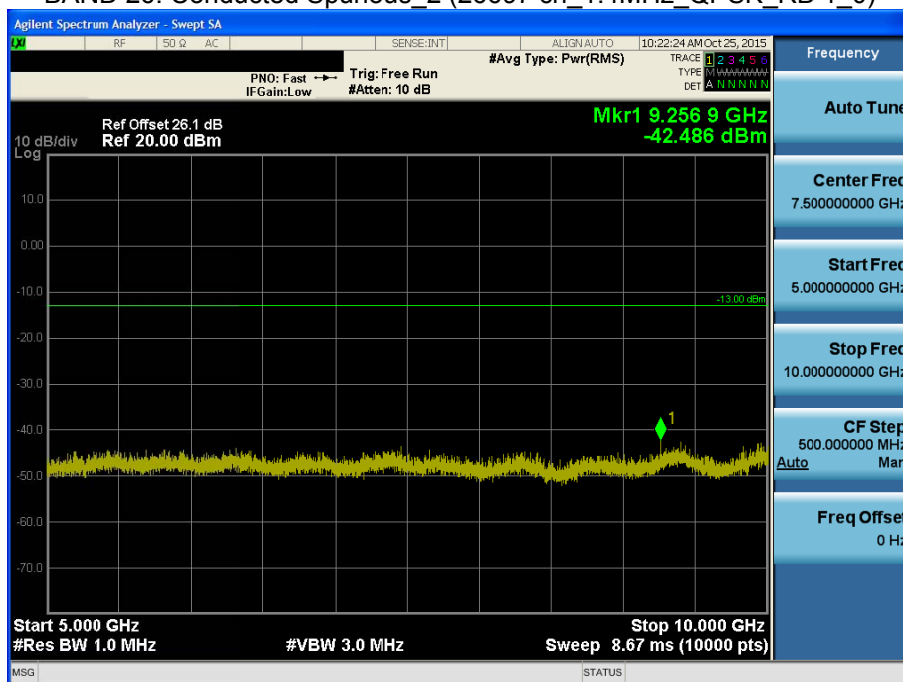
BAND 26. Low Channel Edge Plot (10M BW Ch.26740 QPSK_RB1_Offset 0) -1



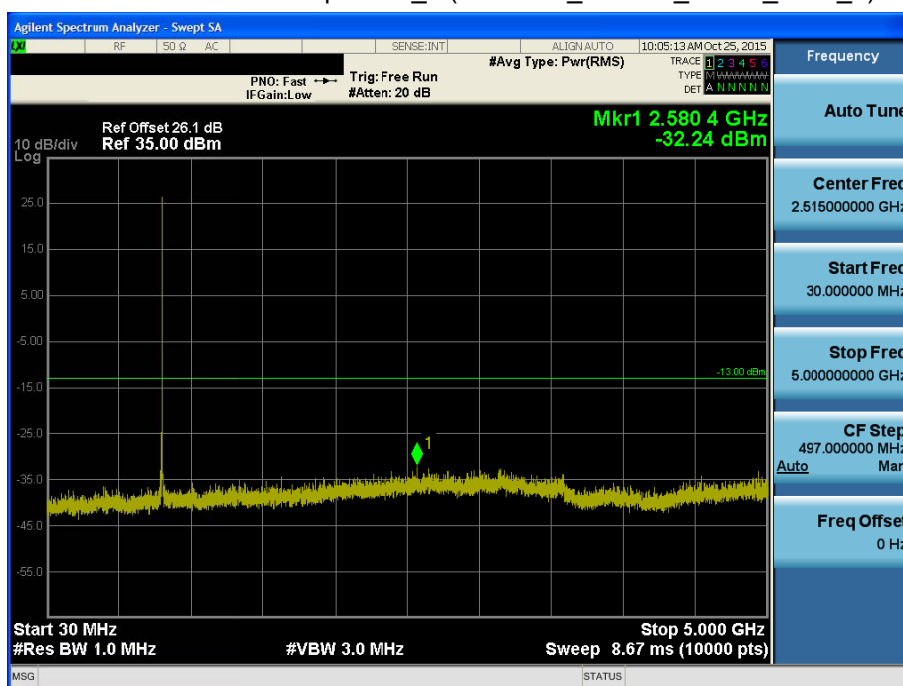
BAND 26. Conducted Spurious_1 (26697 ch_1.4MHz_QPSK_RB 1_0)



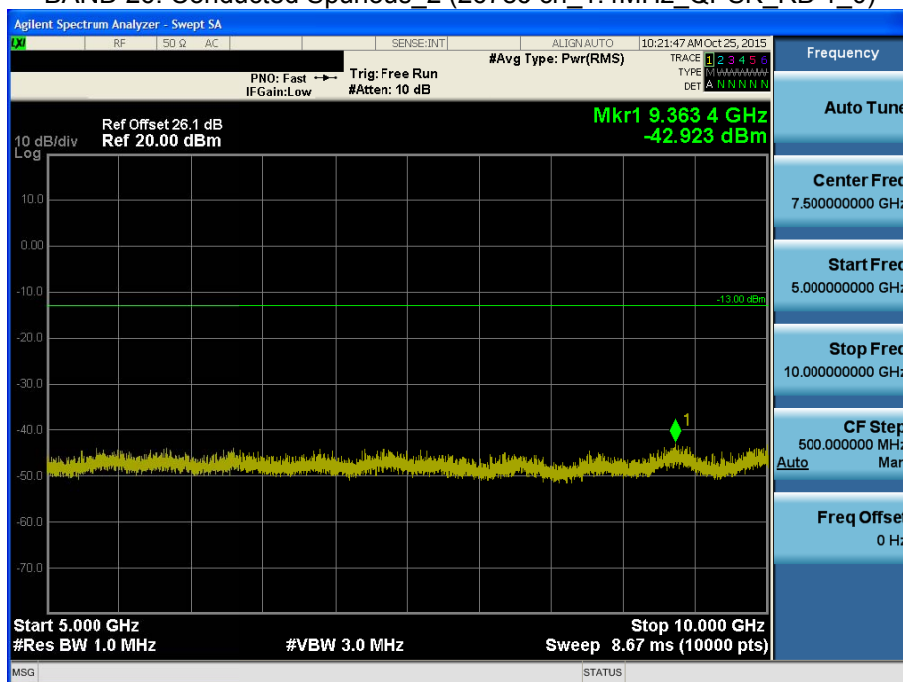
BAND 26. Conducted Spurious_2 (26697 ch_1.4MHz_QPSK_RB 1_0)



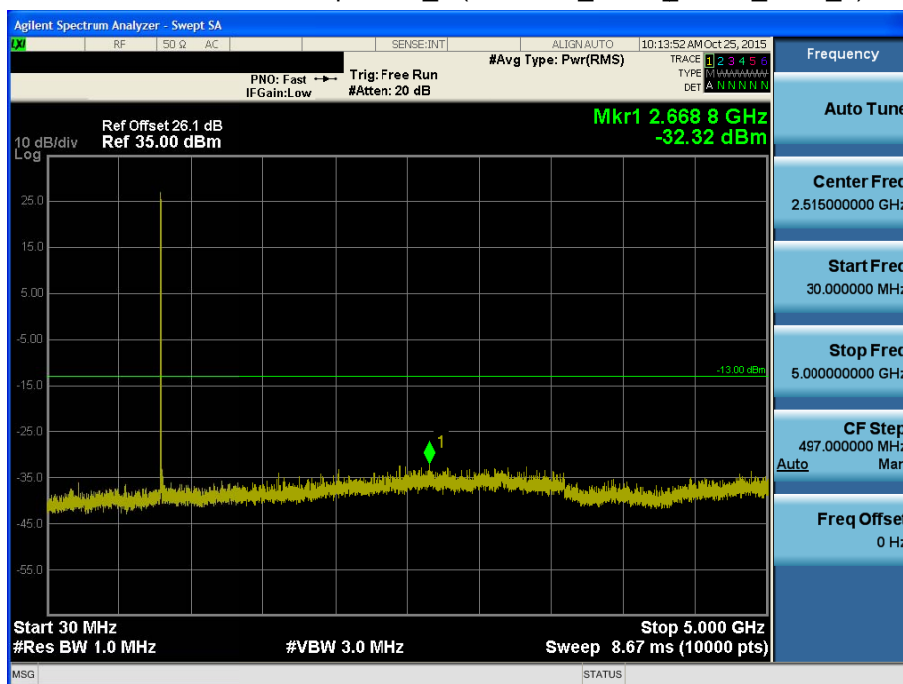
BAND 26. Conducted Spurious_1 (26783 ch_1.4MHz_QPSK_RB 1_0)



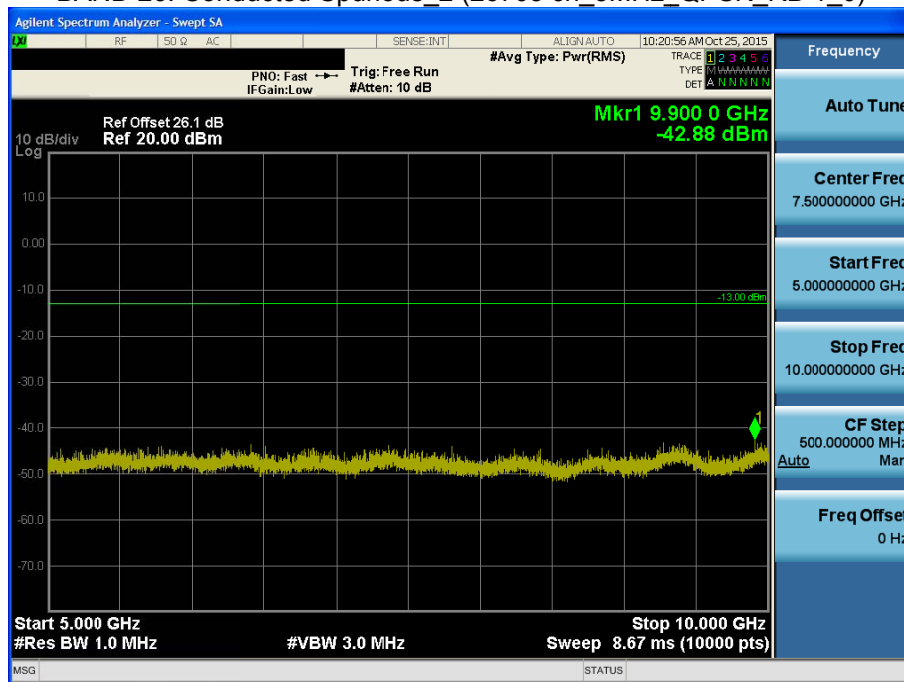
BAND 26. Conducted Spurious_2 (26783 ch_1.4MHz_QPSK_RB 1_0)



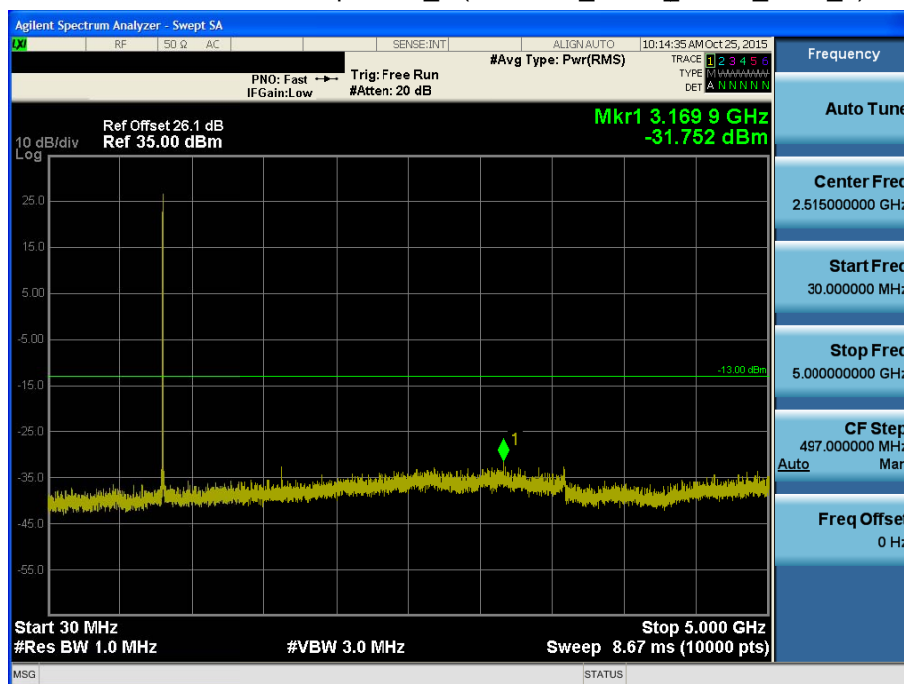
BAND 26. Conducted Spurious_1 (26705 ch_3MHz_QPSK_RB 1_0)



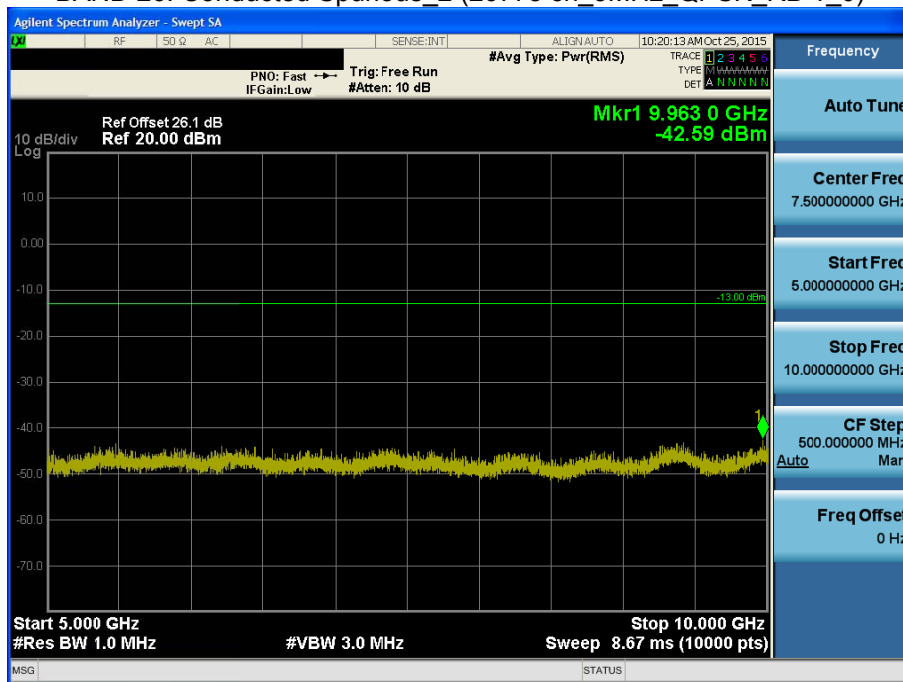
BAND 26. Conducted Spurious_2 (26705 ch_3MHz_QPSK_RB 1_0)



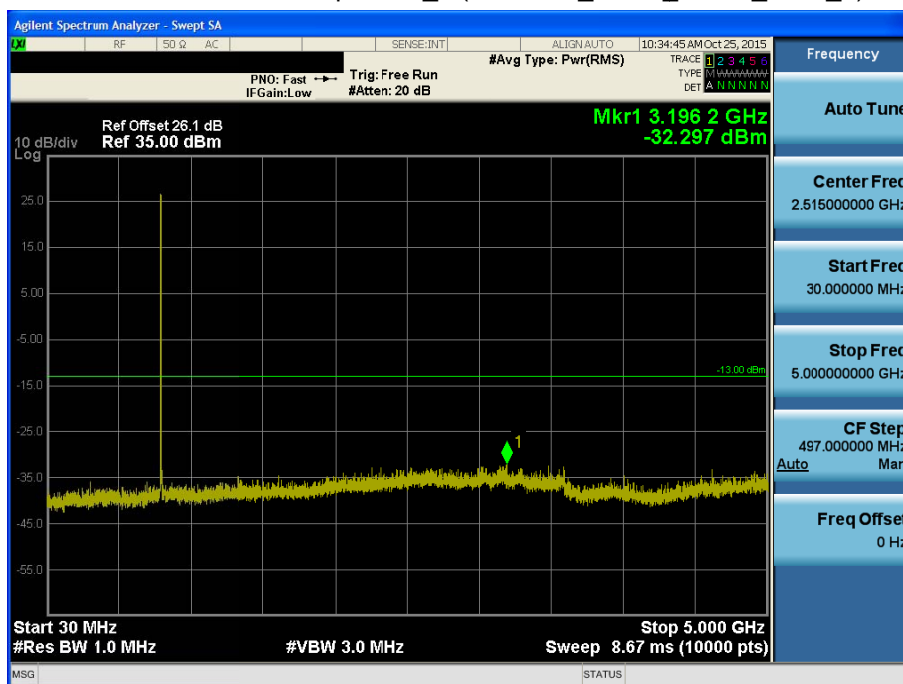
BAND 26. Conducted Spurious_1 (26775 ch_3MHz_QPSK_RB 1_0)



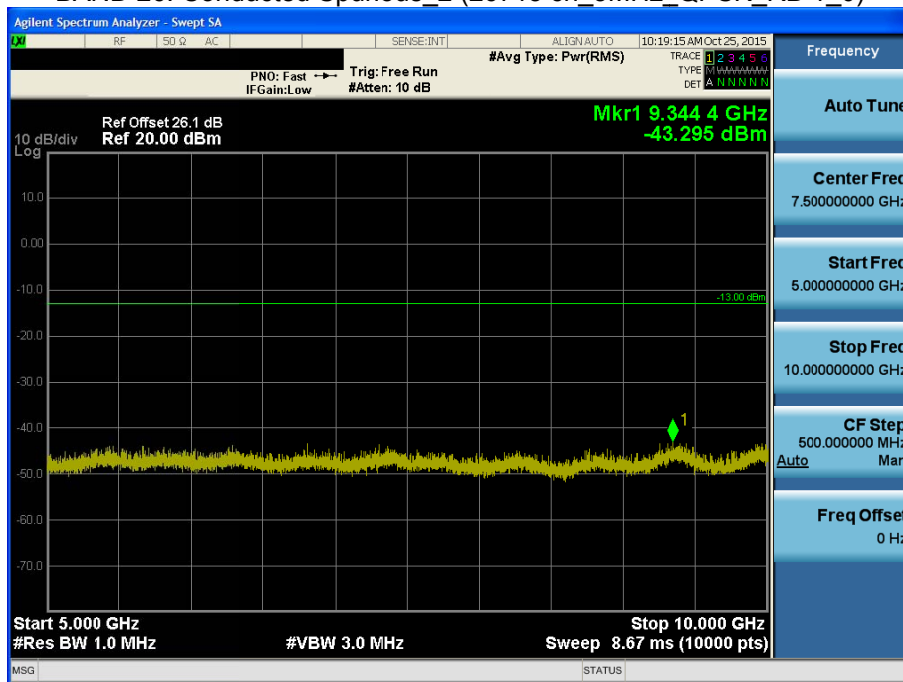
BAND 26. Conducted Spurious_2 (26775 ch_3MHz_QPSK_RB 1_0)



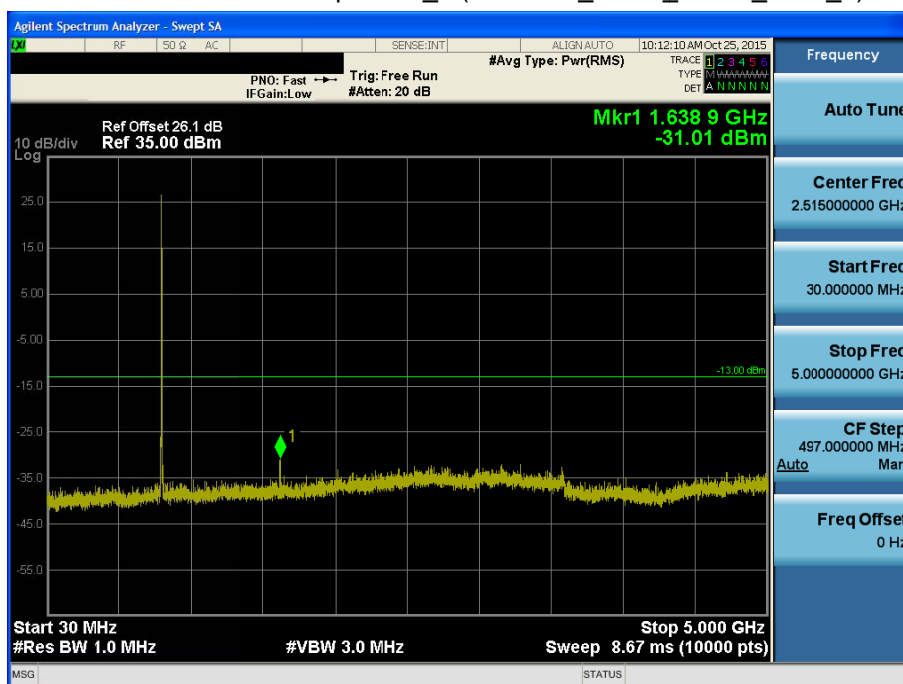
BAND 26. Conducted Spurious_1 (26715 ch_5MHz_QPSK_RB 1_0)



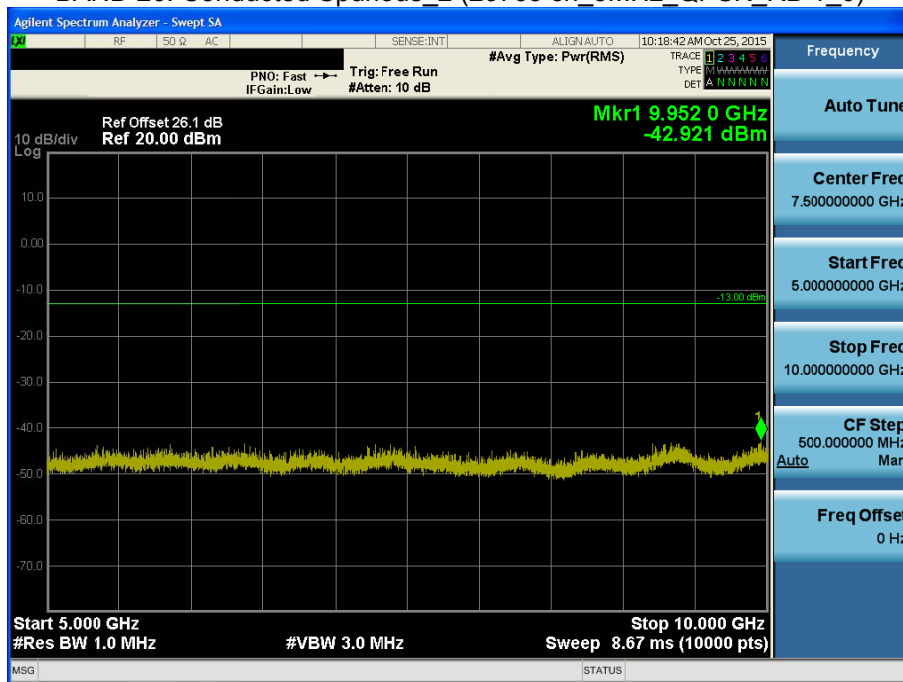
BAND 26. Conducted Spurious_2 (26715 ch_5MHz_QPSK_RB 1_0)



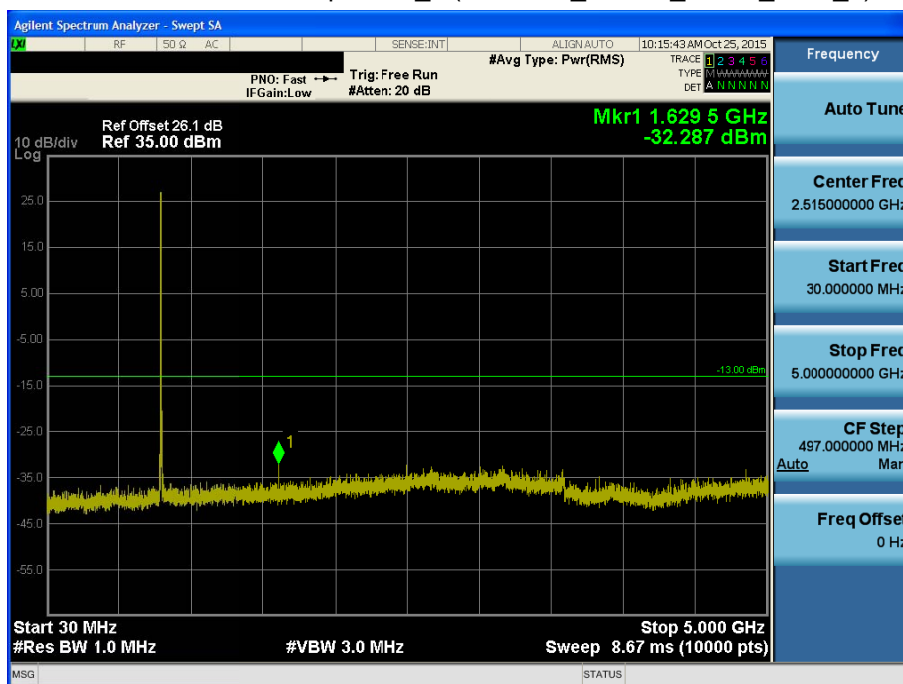
BAND 26. Conducted Spurious_1 (26765 ch_5MHz_QPSK_RB 1_0)



BAND 26. Conducted Spurious_2 (26765 ch_5MHz_QPSK_RB 1_0)



BAND 26. Conducted Spurious_1 (26740 ch_10MHz_QPSK_RB 1_0)



BAND 26. Conducted Spurious_2 (26740 ch_10MHz_QPSK_RB 1_0)

