FCC RF Test Report

APPLICANT	:	OnePlus Technology (shenzhen) Co., Ltd.
EQUIPMENT	:	Smart Phone
BRAND NAME	:	ONEPLUS
MODEL NAME	:	ONEPLUS A5000
FCC ID	:	2ABZ2-A5000
STANDARD	:	FCC 47 CFR Part 2, 27
CLASSIFICATION	:	PCS Licensed Transmitter Held to Ear (PCE)

The product was received on Jan. 22, 2017 and completely tested on May 30, 2017. We, SPORTON INTERNATIONAL (ShenZhen) INC., would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI / TIA / EIA-603-D-2010 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL (ShenZhen) INC., the test report shall not be reproduced except in full.

Prepared by: Eric Shih / Manager

Approved by: Jones Tsai / Manager

SPORTON International (ShenZhen) INC.

1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan District, Shenzhen City, Guangdong Province, China

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG712206C	Rev. 01	Initial issue of report	May 27, 2017
FG712206C	Rev. 02	Update report for adding the test results of 64QAM.	Jun. 03, 2017

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.4	§2.1046	Conducted Output Power	Reporting Only	PASS	-
3.5	-	Peak-to-Average Ratio	<13dB	N/A	Reporting only
3.6	§27.50 (a)(3)	EIRP Power Density	EIRP < 250mW/5MHz	PASS	-
3.7	§2.1049	Occupied Bandwidth	Reporting Only	PASS	-
3.8	§2.1051 §27.53 (a)(4)	Conducted Band Edge Measurement	Refer standard	PASS	-
3.9	§2.1051 §27.53 (a)(4)	Conducted Spurious Emission	< $70+10\log_{10}$(P[Watts])	PASS	-
3.10	§2.1055 §27.54	Frequency Stability Temperature & Voltage	Within the band	PASS	-
4.4	§2.1053 §27.53 (a)(4)	Radiated Spurious Emission	< $70+10\log_{10}$(P[Watts])	PASS	Under limit 11.04 dB at 9241.360 MHz

1 General Description

1.1 Applicant

OnePlus Technology (shenzhen) Co., Ltd.
18C02, 18C03, 18C04 and 18C05, Shum Yip Terra Building, Binhe Avenue North, Futian District, Shenzhen

1.2 Manufacturer

OnePlus Technology (shenzhen) Co., Ltd.
18C02, 18C03, 18C04 and 18C05, Shum Yip Terra Building, Binhe Avenue North, Futian District, Shenzhen

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Smart Phone
Brand Name	ONEPLUS
Model Name	ONEPLUS A5000
FCC ID	2ABZ2-A5000
EUT supports Radios application	CDMA/EVDO/GSM/GPRS/EGPRS/WCDMA/HSPA/ DC-HSDPA/HSPA+/LTE/NFC WLAN 2.4GHz 802.11b/g/n HT20/HT40 WLAN 2.4GHz 802.11ac VHT20/VHT40 WLAN 5GHz 802.11a/n HT20/HT40 WLAN 5GHz 802.11ac VHT20/VHT40/VHT80 Bluetooth v3.0 + EDR/Bluetooth v4.0 LE/ Bluetooth v4.1 LE/Bluetooth v4.2 LE/ Bluetooth v5.0 LE
IMEI Code	**Top Antenna** Conducted: 001001228352610&001001228352610 Radiation: 001001227811087/001001227811087 **Bottom Antenna** Radiation: 001001228409055/001001228409055
HW Version	EB101
SW Version	H2OS V3.5
EUT Stage	Production Unit

1.4 Product Specification of Equipment Under Test

Product Feature	
Tx Frequency	LTE Band 30 : 2307.5 MHz ~ 2312.5 MHz
Rx Frequency	LTE Band 30 : 2352.5 MHz ~ 2357.5 MHz
Bandwidth	5MHz / 10MHz
Maximum Output Power to Antenna	LTE Band 30 : 22.77 dBm
Antenna Type	PIFA Antenna
Type of Modulation	QPSK / 16QAM / 64QAM

1.5 Modification of EUT

No modifications are made to the EUT during all test items.

1.6 Maximum Frequency Tolerance and Emission Designator

LTE Band 30		QPSK			16QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum Conducted power(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum Conducted power(W)
5	2307.5 ~ 2312.5	4M49G7D	-	0.1816	4M49W7D	-	0.1585
10	2310.0	9M03G7D	0.0195	0.1892	9M01W7D	-	0.1503

LTE Band 30		64QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum Conducted power(W)
5	2307.5 ~ 2312.5	4M50W7D	-	0.1216
10	2310.0	9M01W7D	-	0.1233

1.7 Testing Site

Test Site	SPORTON International (ShenZhen) INC.
Test Site Location	1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan District, Shenzhen City, Guangdong Province, China TEL: +86-755-8637-9589 FAX: +86-755-8637-9595
Test Site No.	**Sporton Site No.**
	TH01-SZ

Test Site	SPORTON International (ShenZhen) INC.	
Test Site Location	No. 3 Building, the third floor of south, Shahe River west, Fengzeyuan warehouse, Nanshan District, Shenzhen, Guangdong, P. R. China TEL: +86-755- 3320-2398	
Test Site No.	**Sporton Site No.**	**FCC/IC Registration No.**
	03CH03-SZ	565805/4086F

1.8 Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- 47 CFR Part 2, Part 27(D)
- ANSI / TIA / EIA-603-D-2010
- FCC KDB 971168 D01 Power Meas. License Digital Systems v02r02

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

2 Test Configuration of Equipment Under Test

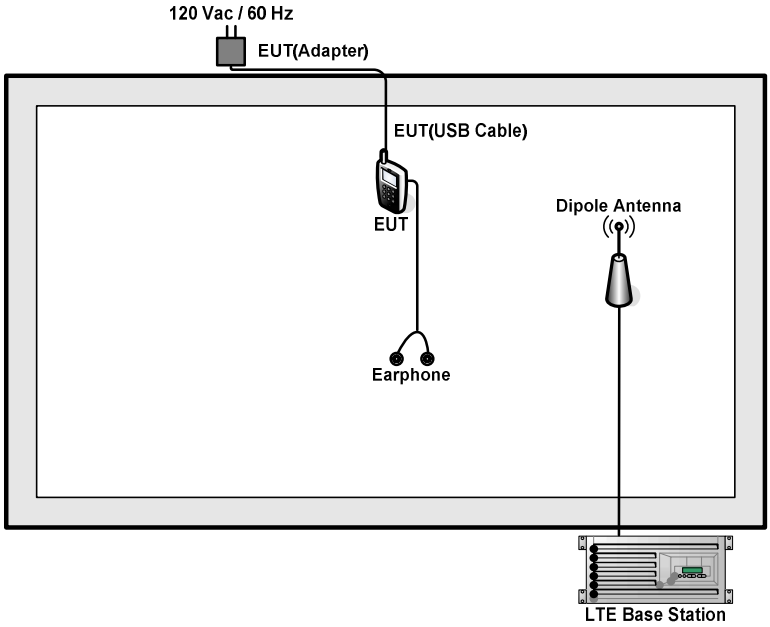
2.1 Test Mode

Antenna port conducted and radiated test items listed below are performed according to K DB 971168 D01 Power Meas. License Digital Systems v02r02 with maximum output power.

Radiated measurements are performed by rotating the EUT in three different orthogonal test planes to find the maximum emission.

Conducted Test Cases	Band	Bandwidth (MHz)						Modulation			RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	64QAM	1	Half	Full	L	M	H
Max. Output Power	30	-	-	V		-	-	V	V	V	V	V	V	V	V	V
		-	-		V	-	-	V	V	V	V	V	V		V	
Peak-to-Average Ratio	30	-	-		V	-	-	V	V	V	V		V		V	
E.I.R.P PSD	30	-	-	V		-	-	V	V	V	V			V	V	V
		-	-		V	-	-	V	V	V	V				V	
26dB and 99% Bandwidth	30	-	-	V		-	-	V	V	V			V	V	V	V
		-	-		V	-	-	V	V	V			V		V	
Conducted Band Edge	30	-	-	V		-	-	V	V	V	V		V	V		V
		-	-		V	-	-	V	V	V	V		V		V	
Conducted Spurious Emission	30	-	-	V		-	-	V	V	V	V			V	V	V
		-	-		V	-	-	V	V	V	V				V	
Frequency Stability	30	-	-		V	-	-	V					V		V	
Radiated Spurious Emission	30	-	-	V		-	-	V			V			V	V	V
					V			V			V				V	
Note	1. The mark “v “ means that this configuration is chosen for testing 2. The mark “-“ means that this bandwidth is not supported. 3. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported.															

2.2 Connection Diagram of Test System



2.3 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	LTE Base Station	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m
2.	Earphone	Apple	MC690ZP/A	N/A	Shielded, 1.0m	N/A

2.4 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between RF conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level will be exactly the RF output level.

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.
Offset = RF cable loss + attenuator factor.
The following shows an offset computation example with RF cable loss 5.0 dB and a 10dB attenuator.

Example :
Offset(dB) = RF cable loss(dB) + attenuator factor(dB).
= 5.0 + 10 = 15.0 (dB)

2.5 Frequency List of Low/Middle/High Channels

LTE Band 30 Channel and Frequency List				
BW [MHz]	**Channel/Frequency(MHz)**	**Lowest**	**Middle**	**Highest**
10	Channel	-	27710	-
	Frequency	-	2310	-
5	Channel	27685	27710	27735
	Frequency	2307.5	2310	2312.5

3 Conducted Test Items

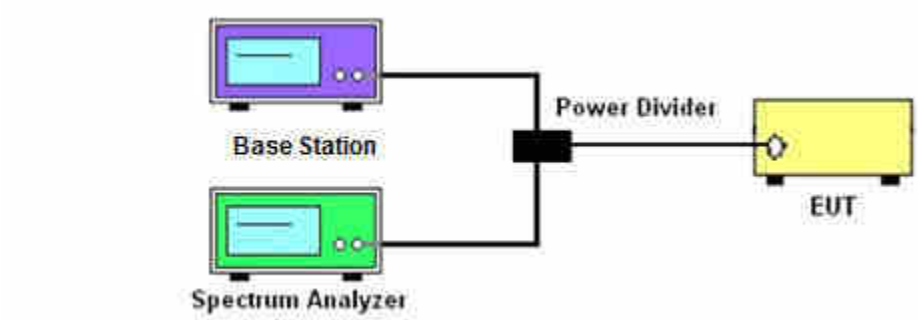
3.1 Measuring Instruments

See list of measuring instruments of this test report.

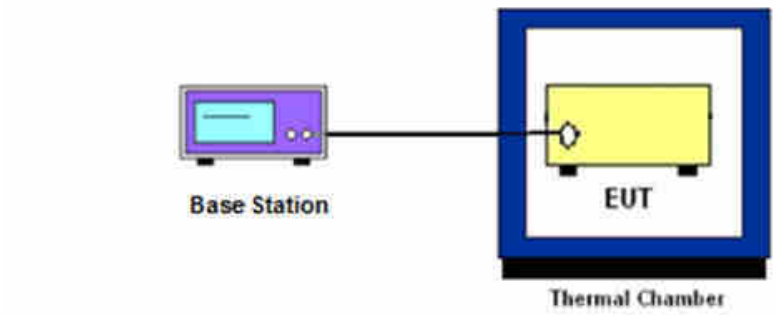
3.2 Test Setup

3.2.1 Conducted Output Power

3.2.2 Peak-to-Average Ratio, Occupied / 26dB Bandwidth ,Band-Edge and Conducted Spurious Emission



3.2.3 Frequency Stability



3.3 Test Result of Conducted Test

Please refer to Appendix A.

3.4 Conducted Output Power Measurement

3.4.1 Description of the Conducted Output Power Measurement

A base station simulator was used to establish communication with the EUT. Its parameters were set to transmit the maximum power on the EUT. The measured power in the radio frequency on the transmitter output terminals shall be reported.

3.4.2 Test Procedures

1. The transmitter output port was connected to base station.
2. Set EUT at maximum power through base station.
3. Select lowest, middle, and highest channels for each band and different modulation.

3.5 Peak-to-Average Ratio

3.5.1 Description of the PAR Measurement

Power Complementary Cumulative Distribution Function (CCDF) curves provide a means for characterizing the power peaks of a digitally modulated signal on a statistical basis. A CCDF curve depicts the probability of the peak signal amplitude exceeding the average power level. Most contemporary measurement instrumentation include the capability to produce CCDF curves for an input signal provided that the instrument's resolution bandwidth can be set wide enough to accommodate the entire input signal bandwidth. In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

3.5.2 Test Procedures

1. The testing follows FCC KDB 971168 v02r02 Section 5.7.1.
2. The EUT was connected to spectrum and system simulator via a power divider.
3. Set the CCDF (Complementary Cumulative Distribution Function) option in spectrum analyzer.
4. The highest RF powers were measured and recorded the maximum PAPR level associated with a probability of 0.1 %.
5. Record the deviation as Peak to Average Ratio.

3.6 EIRP Power Density

3.6.1 Description of EIRP Power Density

For mobile and portable stations transmitting in the 2305-2315 MHz band or the 2350-2360 MHz band, the average EIRP must not exceed 50 milliwatts within any 1 megahertz of authorized bandwidth, *except that* for mobile and portable stations compliant with 3GPP LTE standards or another advanced mobile broadband protocol that avoids concentrating energy at the edge of the operating band the average EIRP must not exceed 250 milliwatts within any 5 megahertz of authorized bandwidth but may exceed 50 milliwatts within any 1 megahertz of authorized bandwidth. For mobile and portable stations using time division duplexing (TDD) technology, the duty cycle must not exceed 38 percent in the 2305-2315 MHz and 2350-2360 MHz bands. Mobile and portable stations using FDD technology are restricted to transmitting in the 2305-2315 MHz band. Power averaging shall not include intervals in which the transmitter is off.

3.6.2 Test Procedures

1. Set instrument center frequency to OBW center frequency.
2. Set span to at least 1.5 times the OBW.
3. Set the RBW to the specified reference bandwidth (often 1 MHz).
4. Set VBW ≥ 3 × RBW.
5. Detector = RMS (power averaging).
6. Ensure that the number of measurement points in the sweep ≥ 2 × span/RBW.
7. Sweep time = auto couple.
8. Employ trace averaging (RMS) mode over a minimum of 100 traces.
9. Use the peak marker function to determine the maximum amplitude level within the reference bandwidth (PSD).

3.7 Occupied Bandwidth

3.7.1 Description of Occupied Bandwidth Measurement

The occupied bandwidth is 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 transmitted power.

The 26dB occupied bandwidth is the width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal 26 dB.
The 26 dB emission bandwidth(EBW) is defined as the frequency range between two points, one above and one below the carrier frequency, at which the spectral density of the emission is attenuated 26 dB below the maximum in-band spectral density of the modulated signal. Spectral density (power per unit bandwidth) is to be measured with a detector of resolution bandwidth equal to approximately 1.0% of the emission bandwidth.

3.7.2 Test Procedures

1. The EUT was connected to Spectrum Analyzer and Base Station via power divider.
2. The 26dB and 99% occupied bandwidth (BW) of the middle channel for the highest RF powers with full RB sizes were measured.

3.8 Conducted Band Edge Measurement

3.8.1 Description of Conducted Band Edge Measurement

27.53 (a)(4)

For mobile and portable stations operating in the 2305-2315 MHz and 2350-2360 MHz bands:

(i) By a factor of not less than: 43 + 10 log (P) dB on all frequencies between 2305 and 2320 MHz and on all frequencies between 2345 and 2360 MHz that are outside the licensed band(s) of operation, not less than 55 + 10 log (P) dB on all frequencies between 2320 and 2324 MHz and on all frequencies between 2341 and 2345 MHz, not less than 61 + 10 log (P) dB on all frequencies between 2324 and 2328 MHz and on all frequencies between 2337 and 2341 MHz, and not less than 67 + 10 log (P) dB on all frequencies between 2328 and 2337 MHz;

(ii) By a factor of not less than 43 + 10 log (P) dB on all frequencies between 2300 and 2305 MHz, 55 + 10 log (P) dB on all frequencies between 2296 and 2300 MHz, 61 + 10 log (P) dB on all frequencies between 2292 and 2296 MHz, 67 + 10 log (P) dB on all frequencies between 2288 and 2292 MHz, and 70 + 10 log (P) dB below 2288 MHz;

(iii) By a factor of not less than 43 + 10 log (P) dB on all frequencies between 2360 and 2365 MHz, and not less than 70 + 10 log (P) dB above 2365 MHz.

3.8.2 Test Procedures

1. The EUT was connected to Spectrum Analyzer and Base Station via power divider.
2. The band edges of low and high channels were measured with RBW ≥ 1% EBW set in Spectrum Analyzer, while the EUT was transmitting under maximum power.
3. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
4. The limit line is derived from 43 + 10log(P)dB below the transmitter power P(Watts)
   = P(W)- [43 + 10log(P)] (dB) = [30 + 10log(P)] (dBm) - [43 + 10log(P)] (dB) = -13dBm.

3.9 Conducted Spurious Emission Measurement

3.9.1 Description of Conducted Spurious Emission Measurement

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least 70 + 10 log (P) dB.

It is measured by means of a calibrated spectrum analyzer and scanned from 30MHz up to a frequency including its 10^{th} harmonic.

3.9.2 Test Procedures

1. The EUT was connected to spectrum analyzer and base station via power divider.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. The middle channel for the highest RF power within the transmitting frequency was measured.
4. The conducted spurious emission for the whole frequency range was taken.
5. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
7. The limit line is derived from 70 + 10log(P)dB below the transmitter power P(Watts)
   = P(W)- [70 + 10log(P)] (dB)
   = [30 + 10log(P)] (dBm) - [70 + 10log(P)] (dB)
   = -40dBm.

3.10 Frequency Stability Measurement

3.10.1 Description of Frequency Stability Measurement

The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within ±0.00025% (±2.5ppm) of the center frequency.

3.10.2 Test Procedures for Temperature Variation

1. The EUT was set up in the thermal chamber and connected with the base station.
2. With power OFF, the temperature was decreased to -30°C and the EUT was stabilized before testing. Power was applied and the maximum change in frequency was recorded within one minute.
3. With power OFF, the temperature was raised in 10°C step up to 50°C. The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.

3.10.3 Test Procedures for Voltage Variation

1. The EUT was placed in a temperature chamber at 25±5° C and connected with the base station.
2. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value measured at the input to the EUT.
3. The variation in frequency was measured for the worst case.

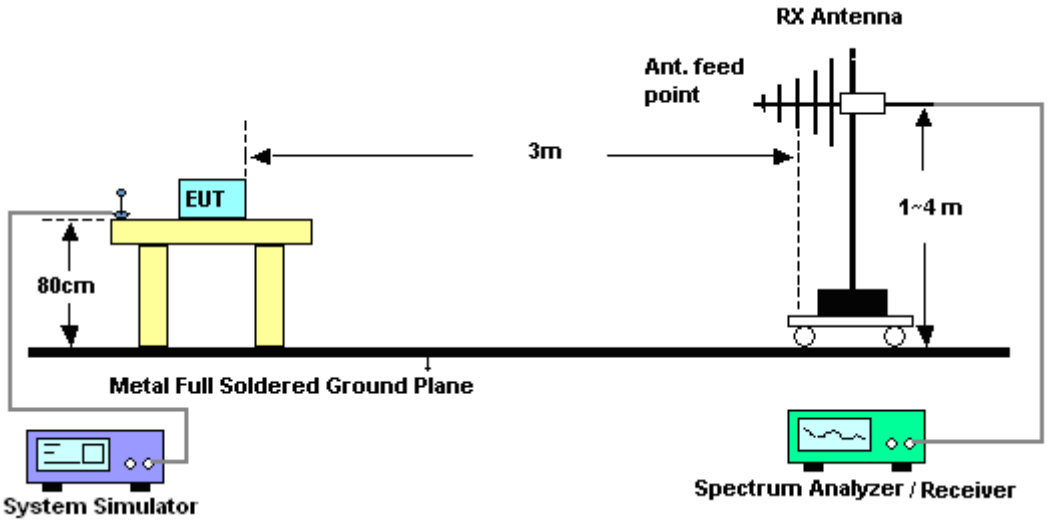
4 Radiated Test Items

4.1 Measuring Instruments

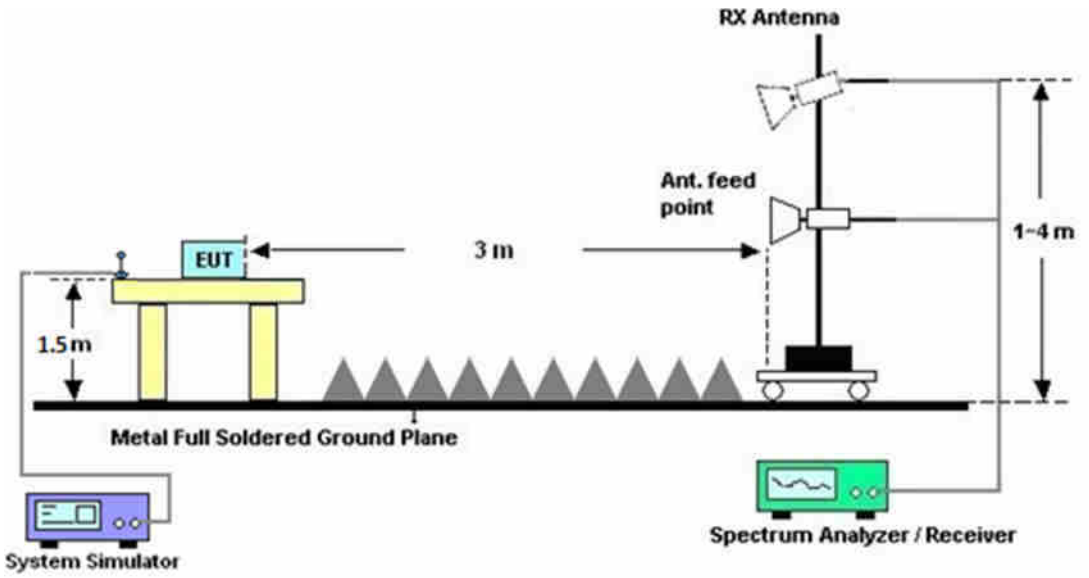
See list of measuring instruments of this test report.

4.2 Test Setup

4.2.1 For radiated test from 30MHz to 1GHz



4.2.2 For radiated test above 1GHz



4.3 Test Result of Radiated Test

Please refer to Appendix B.

4.4 Radiated Spurious Emission Measurement

4.4.1 Description of Radiated Spurious Emission

The radiated spurious emission was measured by substitution method according to ANSI / TIA / EIA-603-D-2010.

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least 70 + 10 log (P) dB.

4.4.2 Test Procedures

1. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
2. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest spurious emission.
4. The height of the receiving antenna is varied between one meter and four meters to search the maximum spurious emission for both horizontal and vertical polarizations.
5. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, Sweep = 500ms, Taking the record of maximum spurious emission.
6. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
7. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
8. Taking the record of output power at antenna port.
9. Repeat step 7 to step 8 for another polarization.
10. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
    The limit line is derived from 70 + 10log(P)dB below the transmitter power P(Watts)
    = P(W)- [70 + 10log(P)] (dB)
    = [30 + 10log(P)] (dBm) - [70 + 10log(P)] (dB)
    = -40dBm.
11. EIRP (dBm) = S.G. Power – Tx Cable Loss + Tx Antenna Gain

5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101078	9kHz~40GHz	May 07, 2016	Apr. 11, 2017	May 06, 2017	Conducted (TH01-SZ)
Spectrum Analyzer	R&S	FSV40	101078	9kHz~40GHz	Apr. 20, 2017	May 15, 2017~ May 30, 2017	Apr. 19, 2018	Conducted (TH01-SZ)
Radio Communication Analyzer	Anritsu	MT8820C	6201563777	2G/3G/4G (CDMA)	Jan. 03, 2017	Apr. 11, 2017~ May 30, 2017	Jan. 02, 2018	Conducted (TH01-SZ)
Thermal Chamber	Ten Billion Hongzhangroup	LP-150U	H2014081803	-40~+150°C	Jul. 16, 2016	Apr. 11, 2017~ May 30, 2017	Jul. 15, 2017	Conducted (TH01-SZ)
EMI Test Receiver&SA	KEYSIGHT	N9038A	MY54450083	20Hz~8.4GHz	Jul. 07, 2016	Apr. 26, 2017~ May 09, 2017	Jul. 06, 2017	Radiation (03CH03-SZ)
EXA Spectrum Anaiyzer	KEYSIGHT	N9010A	MY55150246	10Hz~44GHz	Jul. 07, 2016	Apr. 26, 2017~ May 09, 2017	Jul. 06, 2017	Radiation (03CH03-SZ)
Bilog Antenna	TeseQ	CBL6112D	35408	30MHz~2GHz	May 21, 2016	Apr. 26, 2017~ May 09, 2017	May 20, 2017	Radiation (03CH03-SZ)
Double Ridge Horn Antenna	SCHWARZBECK	BBHA9120 D	9120D-1355	1GHz~18GHz	Jul. 07, 2016	Apr. 26, 2017~ May 09, 2017	Jul. 06, 2017	Radiation (03CH03-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18GHz~40GHz	Aug. 10, 2016	Apr. 26, 2017~ May 09, 2017	Aug. 09, 2017	Radiation (03CH03-SZ)
Amplifier	Burgeon	BPA-530	102210	0.01Hz ~3000MHz	Oct. 11, 2016	Apr. 26, 2017~ May 09, 2017	Oct. 10, 2017	Radiation (03CH03-SZ)
Amplifier	Agilent Technologies	83017A	MY39501302	500MHz~26.5GHz	Jan. 06, 2017	Apr. 26, 2017~ May 09, 2017	Jan. 05, 2018	Radiation (03CH03-SZ)
HF Amplifier	MITEQ	TTA1840-35 -HG	1871923	18GHz~40GHz	Jul. 16, 2016	Apr. 26, 2017~ May 09, 2017	Jul. 15, 2017	Radiation (03CH03-SZ)
AC Power Source	Chroma	61601	616010001985	N/A	NCR	Apr. 26, 2017~ May 09, 2017	NCR	Radiation (03CH03-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Apr. 26, 2017~ May 09, 2017	NCR	Radiation (03CH03-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Apr. 26, 2017~ May 09, 2017	NCR	Radiation (03CH03-SZ)

NCR: No Calibration Required

6 Uncertainty of Evaluation

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.0dB

Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.6dB

Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.8dB

Appendix A. Test Results of Conducted Test

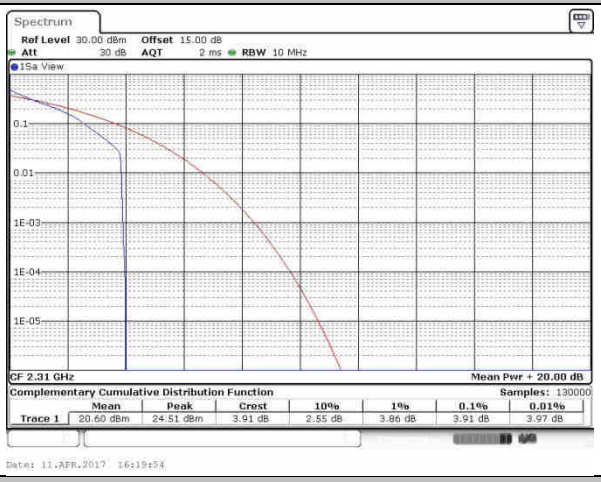
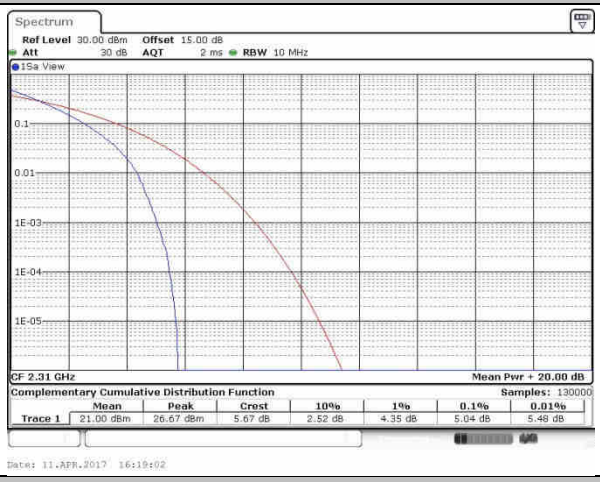
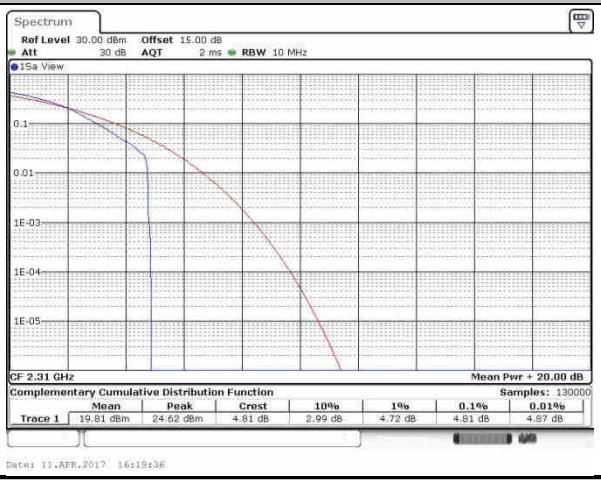
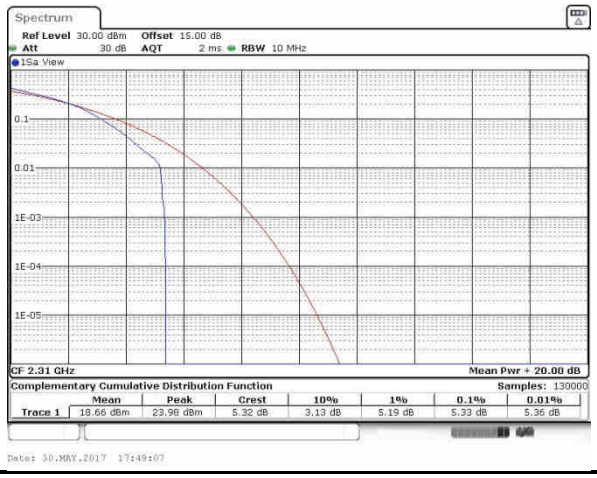
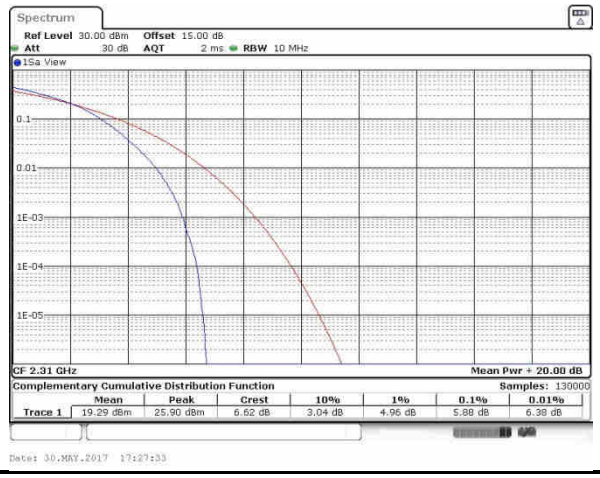
Conducted Output Power(Average power)

LTE Band 30 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	22.59	22.43	22.45
5	1	12		22.39	22.39	22.44
5	1	24		22.43	22.44	22.51
5	12	0		21.56	21.51	21.54
5	12	7		21.54	21.45	21.50
5	12	13		21.53	21.51	21.53
5	25	0		21.47	21.47	21.51
5	1	0	16-QAM	21.73	22.00	22.00
5	1	12		21.59	21.93	21.96
5	1	24		21.62	21.99	21.98
5	12	0		20.62	20.57	20.55
5	12	7		20.52	20.61	20.51
5	12	13		20.51	20.49	20.46
5	25	0		20.42	20.53	20.61
5	1	0	64QAM	20.85	20.74	20.85
5	1	12		20.77	20.67	20.73
5	1	24		20.62	20.68	20.68
5	12	0		19.68	19.56	19.62
5	12	7		19.54	19.57	19.60
5	12	13		19.51	19.51	19.55
5	25	0		19.51	19.54	19.52

10	1	0	QPSK		22.77	
10	1	25			22.54	
10	1	49			22.48	
10	25	0			21.55	
10	25	12			21.49	
10	25	25			21.49	
10	50	0			21.56	
10	1	0	16-QAM		21.77	
10	1	25			21.52	
10	1	49			21.63	
10	25	0			20.56	
10	25	12			20.60	
10	25	25			20.56	
10	50	0			20.56	
10	1	0	64QAM		20.91	
10	1	25			20.69	
10	1	49			20.66	
10	25	0			19.58	
10	25	12			19.57	
10	25	25			19.52	
10	50	0			19.54	

Peak-to-Average Ratio

Mode	LTE Band 30 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Middle CH	3.91	5.04	4.81	5.91	PASS
Mod.	64QAM		Limit: 13dB		
RB Size	1RB	Full RB	Result		
Middle CH	5.33	5.88	PASS		

LTE Band 30 / 10MHz / QPSK	
Middle Channel / 1RB	Middle Channel / Full RB
	
LTE Band 30 / 10MHz / 16QAM	
Middle Channel / 1RB	Middle Channel / Full RB
	
LTE Band 30 / 10MHz / 64QAM	
Middle Channel / 1RB	Middle Channel / Full RB
	

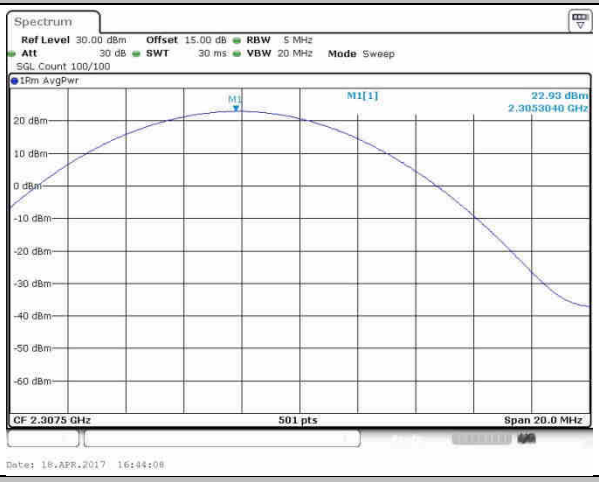
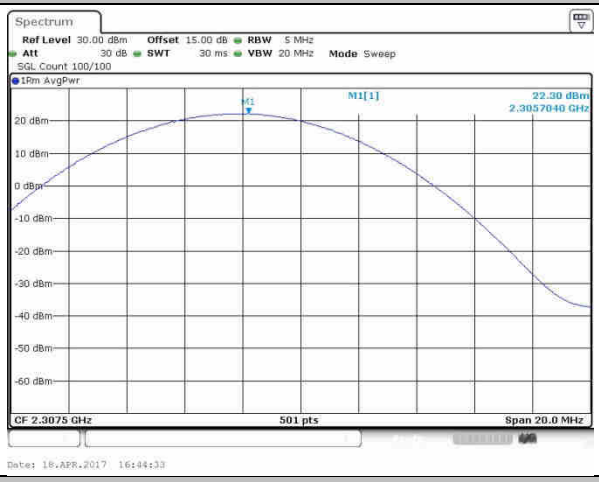
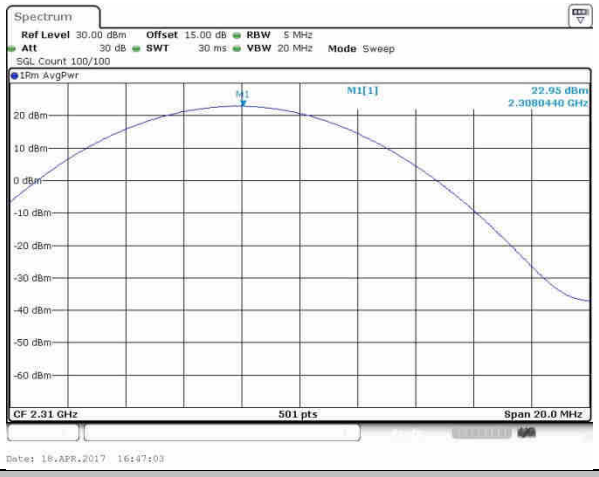
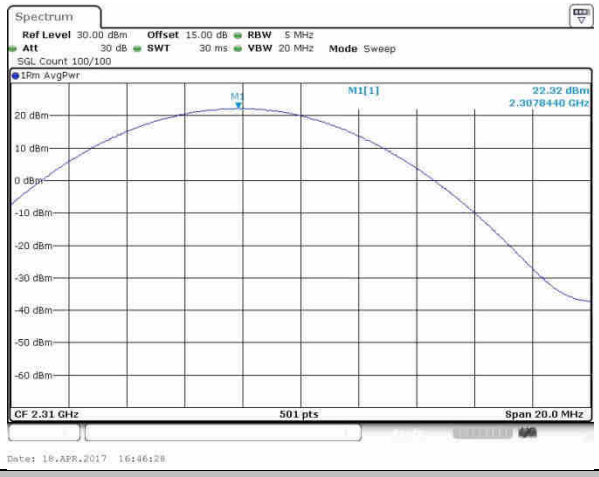
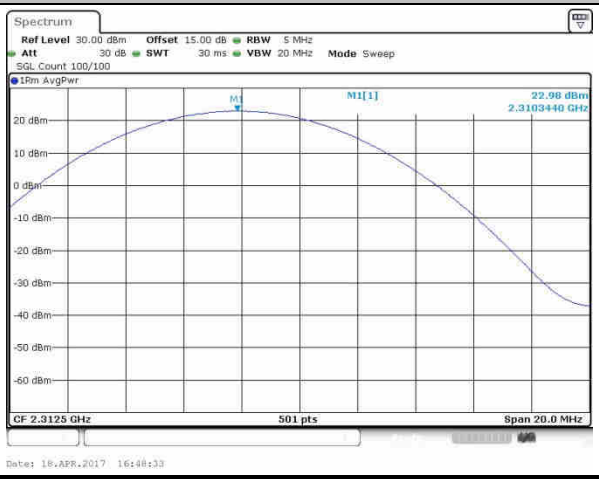
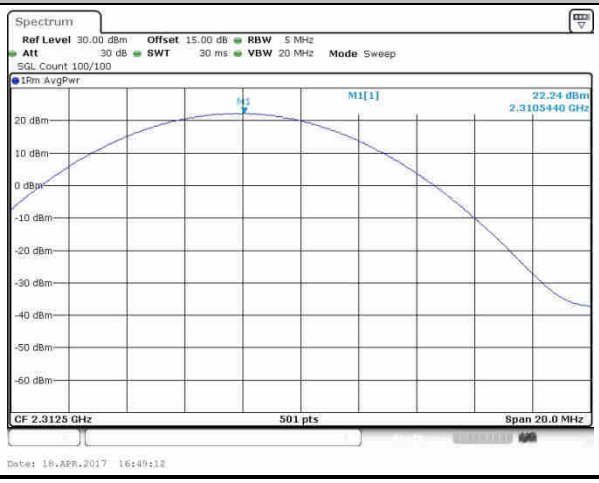
EIRP Power Density

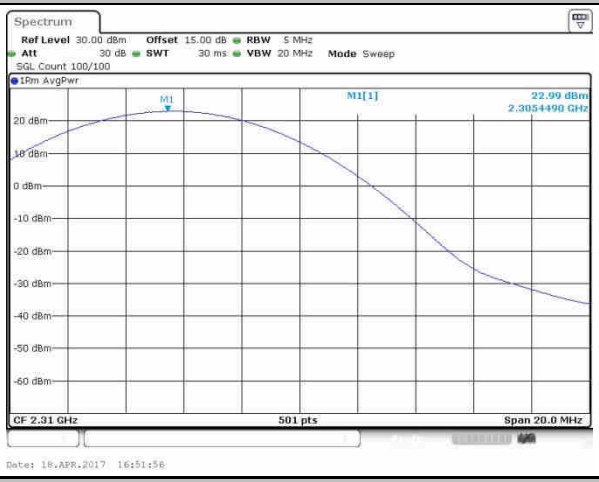
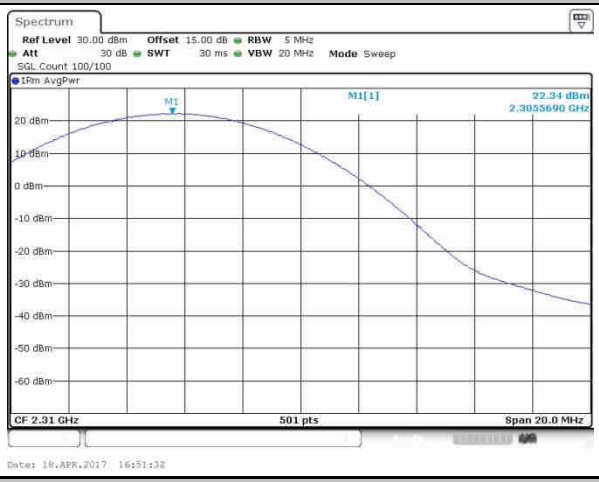
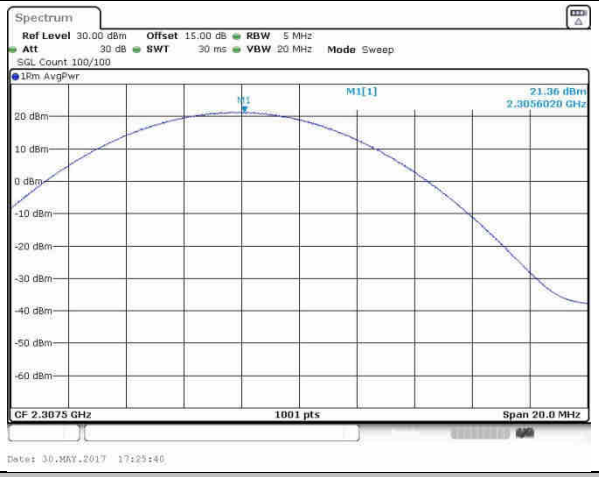
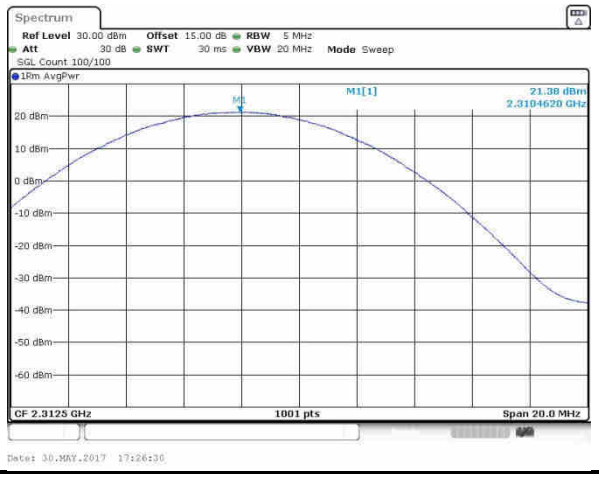
Mode	LTE Band 30 : Conducted Power Density (dBm/5MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH					22.93	22.30						
Middle CH					22.95	22.32	22.99	22.34				
Highest CH					22.98	22.24						

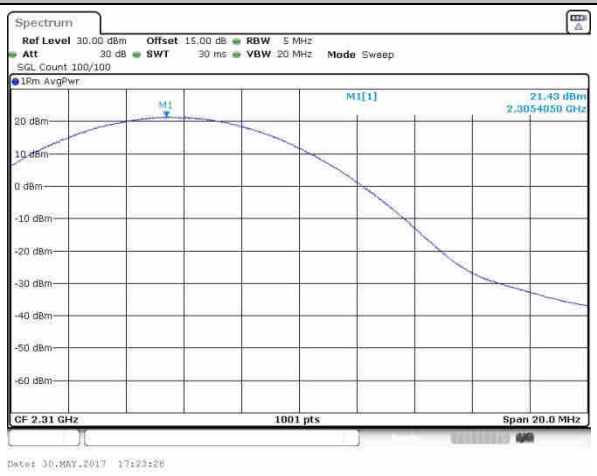
Mode	LTE Band 30 : EIRP Power Density (dBm/5MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH					22.93	22.30						
Middle CH					22.95	22.32	22.99	22.34				
Highest CH					22.98	22.24						
Antenna Gain	0dBi											
Limit	250mW / 5MHz = 24dBm / 5MHz											
Result	Pass											

Mode	LTE Band 30 : Conducted Power Density (dBm/5MHz)	
BW	5MHz	10MHz
Mod.	64QAM	64QAM
Lowest CH	21.36	
Middle CH	21.39	21.43
Highest CH	21.38	

Mode	LTE Band 30 : EIRP Power Density (dBm/5MHz)	
BW	5MHz	10MHz
Mod.	64QAM	64QAM
Lowest CH	21.36	
Middle CH	21.39	21.43
Highest CH	21.38	
Antenna Gain	0dBi	
Limit	250mW / 5MHz = 24dBm / 5MHz	
Result	Pass	

LTE Band 30 / 5MHz	
Lowest Channel / 5MHz / 1RB0 / QPSK	**Lowest Channel / 5MHz / 1RB0 / 16QAM**
	
Middle Channel / 5MHz / 1RB24 / QPSK	**Middle Channel / 5MHz / 1RB0 / 16QAM**
	
Highest Channel / 5MHz / 1RB24 / QPSK	**Highest Channel / 5MHz / 1RB0 / 16QAM**
	

LTE Band 30 / 10MHz	
Lowest Channel / 10MHz / 1RB0 / QPSK	Lowest Channel / 10MHz / 1RB0 / 16QAM
	
LTE Band 30 / 5MHz	
Lowest Channel / 5MHz / 1RB0 / 64QAM	Middle Channel / 5MHz / 1RB0 / 64QAM
	
LTE Band 30 / 5MHz	
Highest Channel / 5MHz / 1RB0 / 64QAM	
	

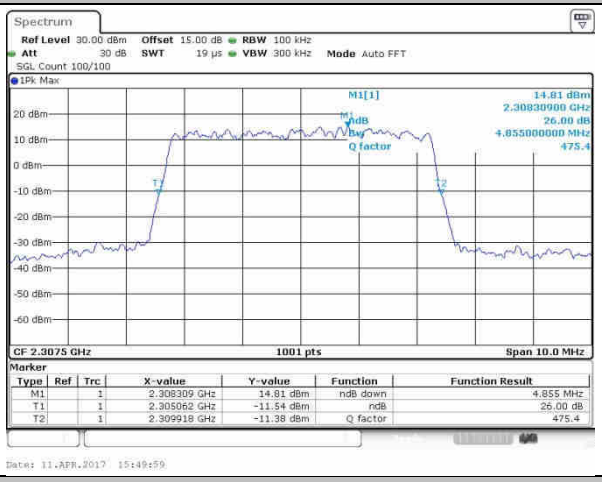
LTE Band 30 / 10MHz	
Middle Channel / 10MHz / 1RB0 / 64QAM	
	

26dB Bandwidth

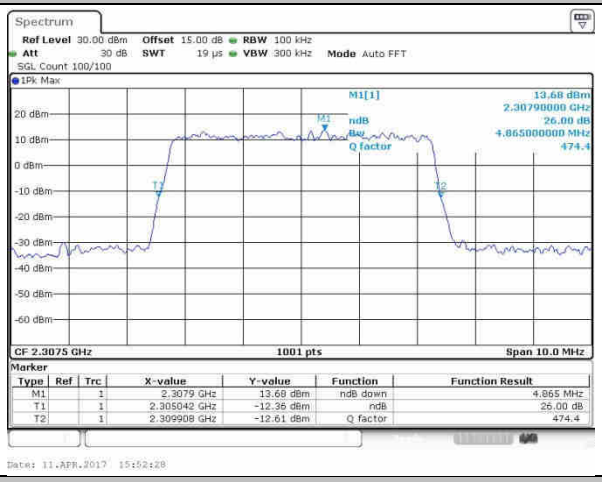
Mode	LTE Band 30 : 26dB BW(MHz)											
BW	5MHz		10MHz		5MHz	10MHz						
Mod.	QPSK	16QAM	QPSK	16QAM	64QAM	64QAM						
Lowest CH	4.855	4.865			4.855							
Middle CH	4.945	4.875	9.73	9.89	4.875	9.83						
Highest CH	4.955	4.935			4.845							

LTE Band 30

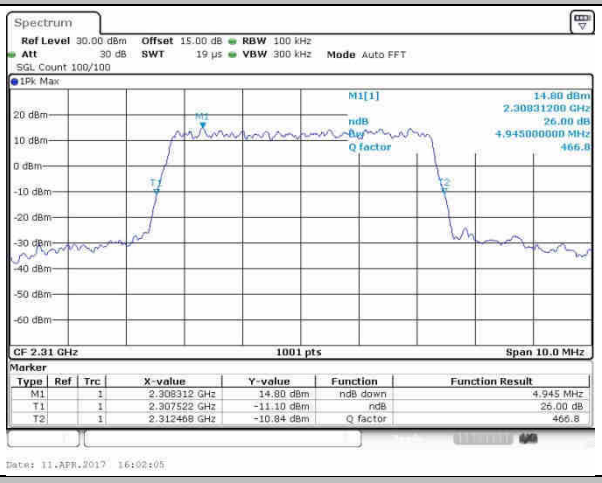
Lowest Channel / 5MHz / QPSK



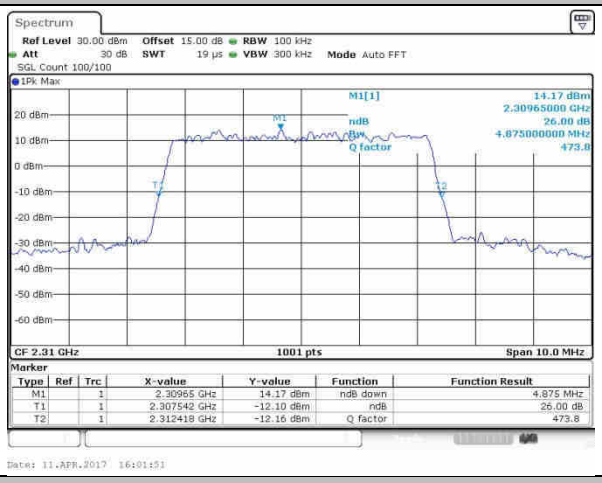
Lowest Channel / 5MHz / 16QAM



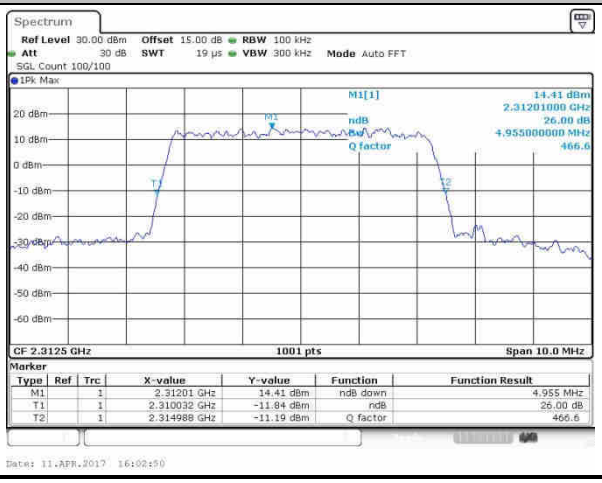
Middle Channel / 5MHz / QPSK



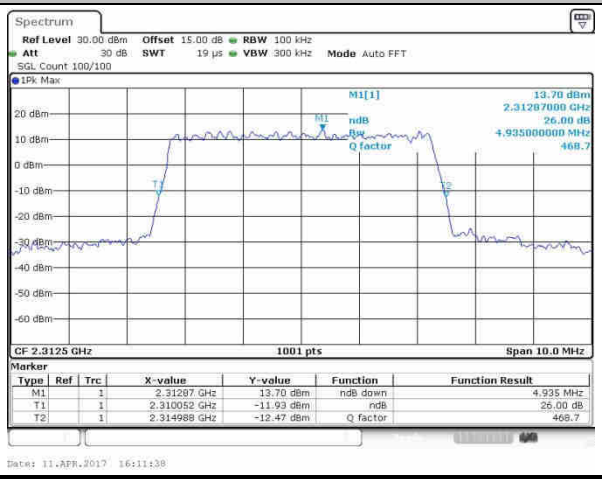
Middle Channel / 5MHz / 16QAM



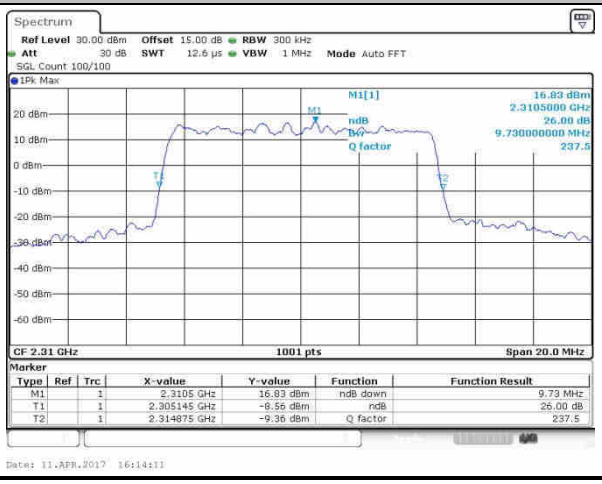
Highest Channel / 5MHz / QPSK

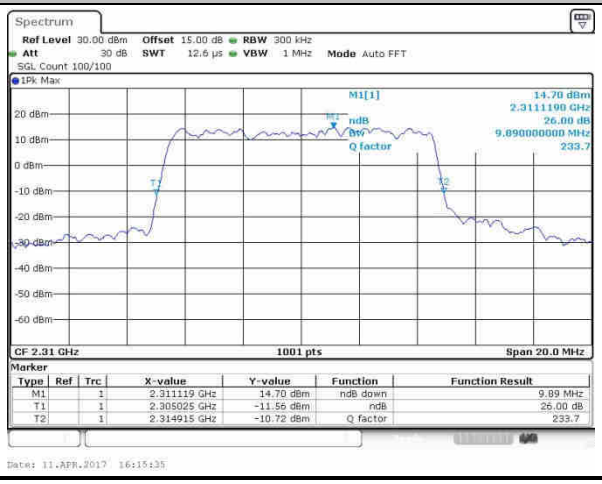


Highest Channel / 5MHz / 16QAM

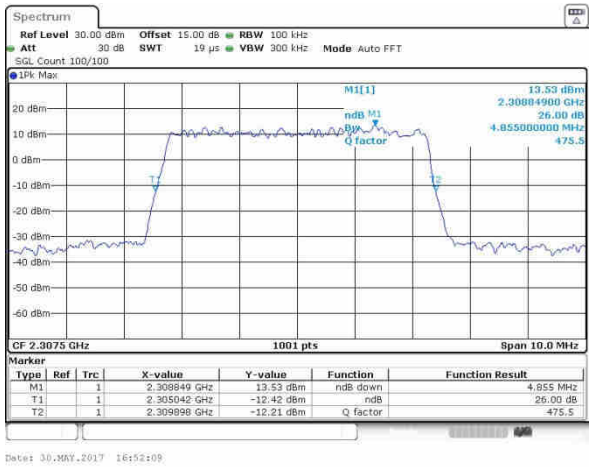


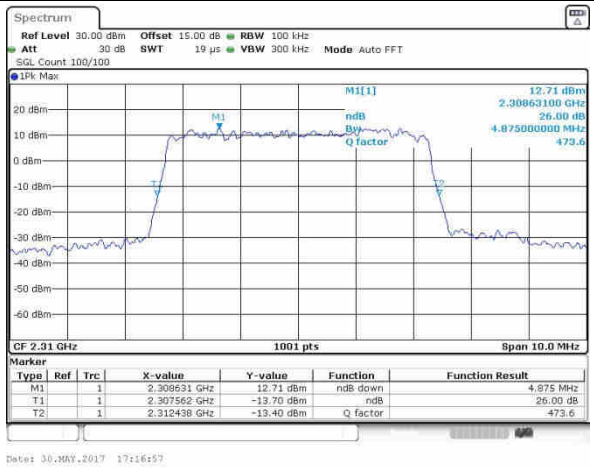
LTE Band 30	
Middle Channel / 10MHz / QPSK	Middle Channel / 10MHz / 16QAM



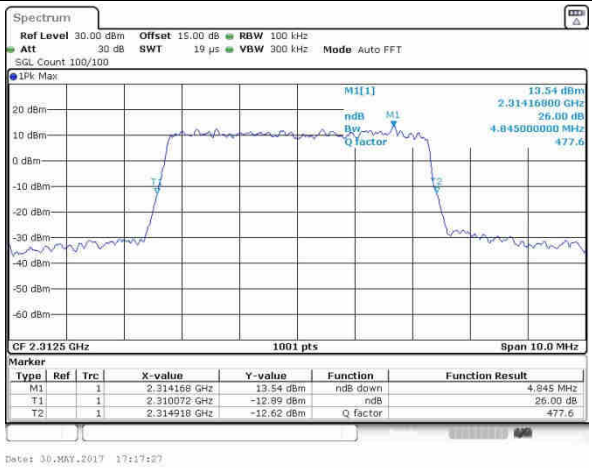


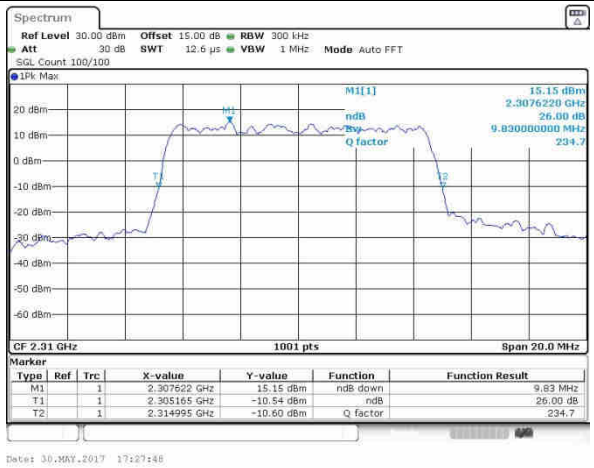
LTE Band 30	
Lowest Channel / 5MHz / 64QAM	Middle Channel / 5MHz / 64QAM





Highest Channel /5MHz / 64QAM	Middle Channel /10MHz / 64QAM



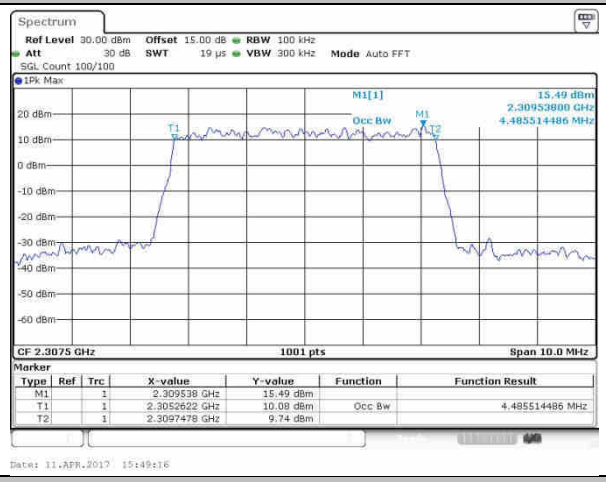


Occupied Bandwidth

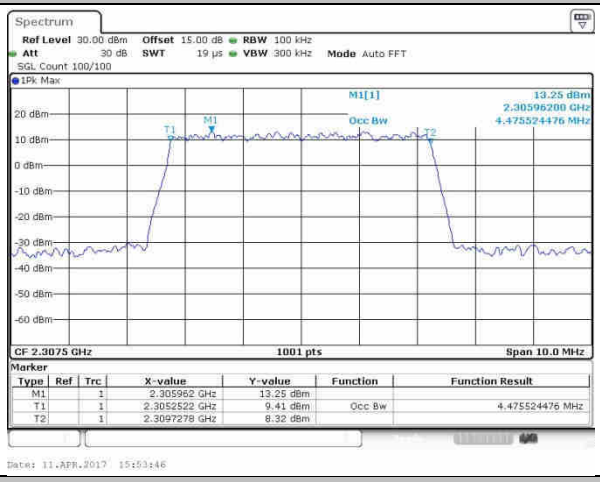
Mode	LTE Band 30 : 99%OBW(MHz)											
BW	5MHz		10MHz		5MHz	10MHz						
Mod.	QPSK	16QAM	QPSK	16QAM	64QAM	64QAM						
Lowest CH	4.49	4.48	-	-	4.476	-						
Middle CH	4.49	4.49	9.03	9.01	4.496	9.011						
Highest CH	4.48	4.48	-	-	4.486	-						

LTE Band 30

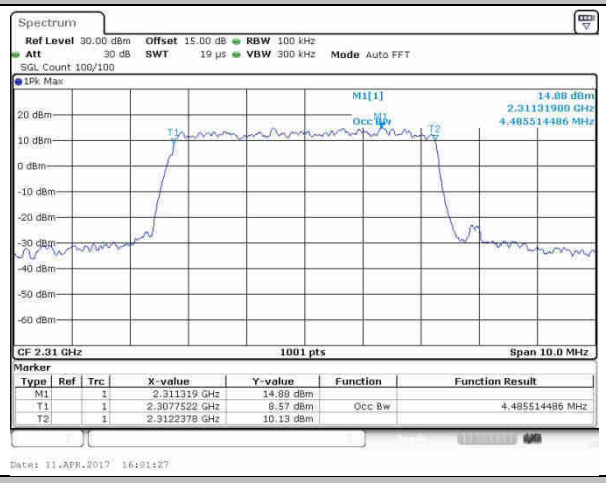
Lowest Channel / 5MHz / QPSK



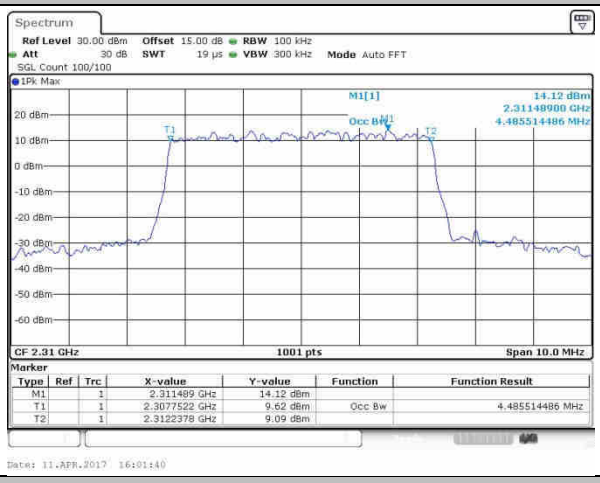
Lowest Channel / 5MHz / 16QAM



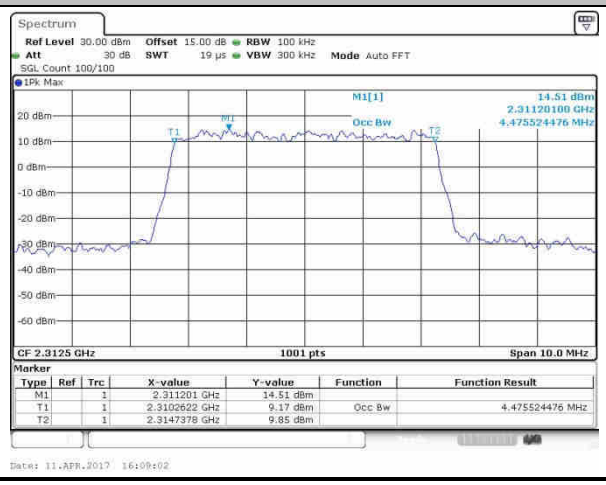
Middle Channel / 5MHz / QPSK



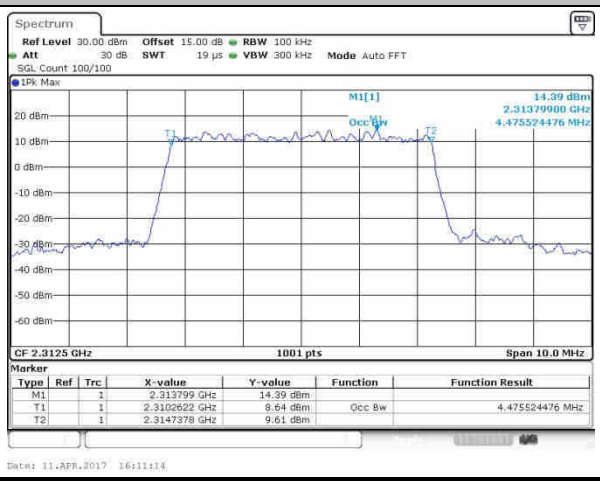
Middle Channel / 5MHz / 16QAM



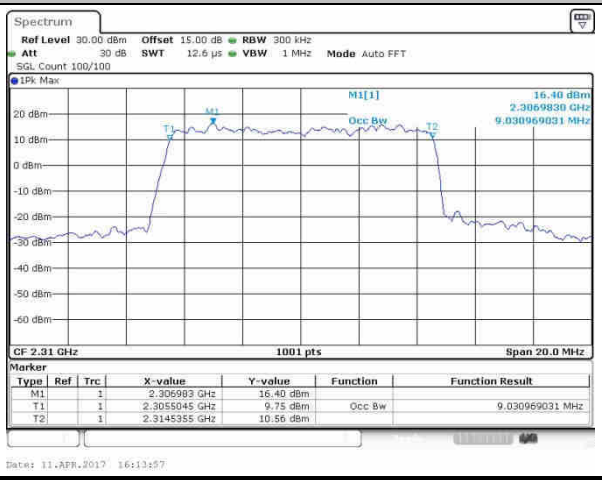
Highest Channel / 5MHz / QPSK

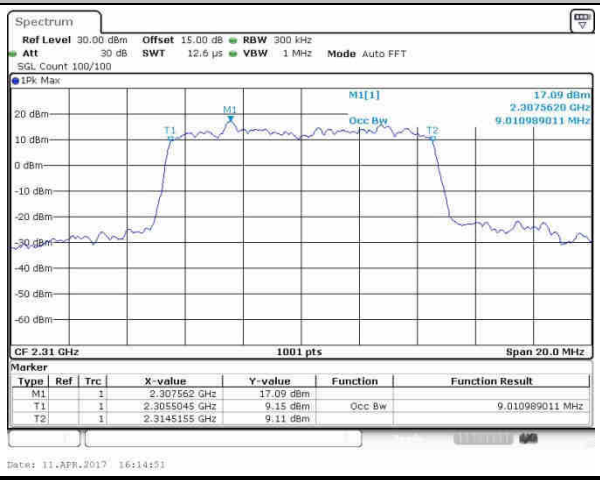


Highest Channel / 5MHz / 16QAM

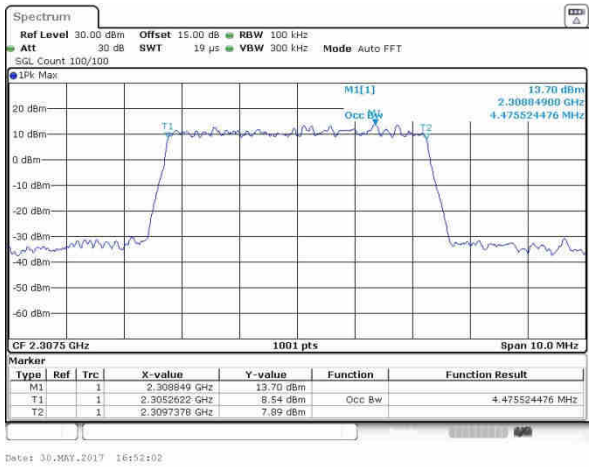


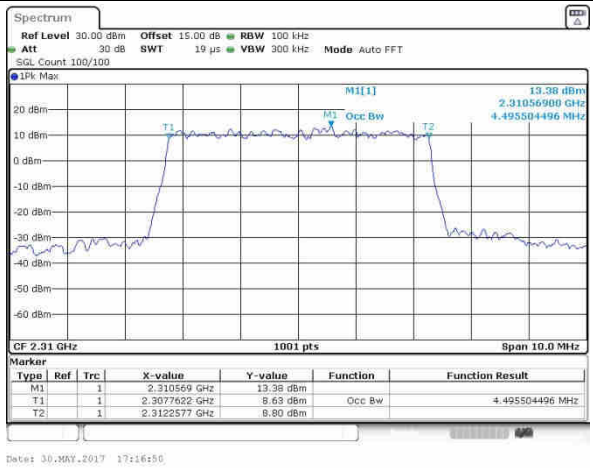
LTE Band 30	
Middle Channel / 10MHz / QPSK	Middle Channel / 10MHz / 16QAM



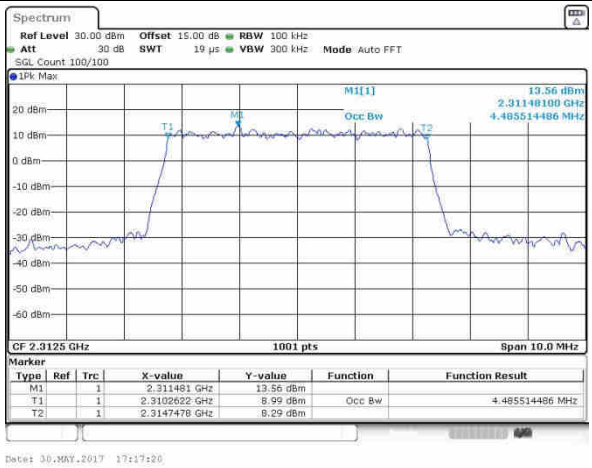


LTE Band 30	
Lowest Channel / 5MHz / 64QAM	Middle Channel / 5MHz / 64QAM





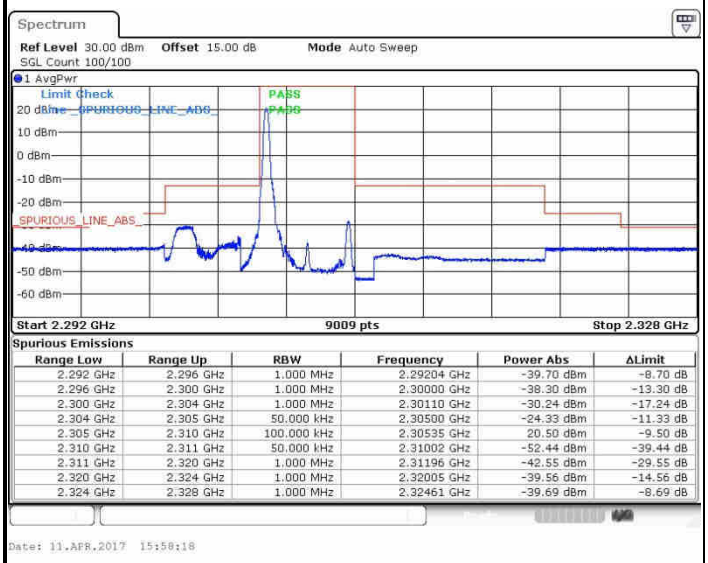
Highest Channel /5MHz / 64QAM	Middle Channel /10MHz / 64QAM



Conducted Band Edge

LTE Band 30 / 5MHz / QPSK

Lowest Band Edge / 1 RB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.292 GHz	2.296 GHz	1.000 MHz	2.29204 GHz	-39.70 dBm	-8.70 dB
2.296 GHz	2.300 GHz	1.000 MHz	2.30000 GHz	-38.30 dBm	-13.30 dB
2.300 GHz	2.304 GHz	1.000 MHz	2.30110 GHz	-30.24 dBm	-17.24 dB
2.304 GHz	2.305 GHz	50.000 kHz	2.30500 GHz	-24.33 dBm	-11.33 dB
2.305 GHz	2.310 GHz	100.000 kHz	2.30535 GHz	20.50 dBm	-9.50 dB
2.310 GHz	2.311 GHz	50.000 kHz	2.31002 GHz	-52.44 dBm	-39.44 dB
2.311 GHz	2.320 GHz	1.000 MHz	2.31196 GHz	-42.55 dBm	-29.55 dB
2.320 GHz	2.324 GHz	1.000 MHz	2.32005 GHz	-39.56 dBm	-14.56 dB
2.324 GHz	2.328 GHz	1.000 MHz	2.32461 GHz	-39.69 dBm	-8.69 dB

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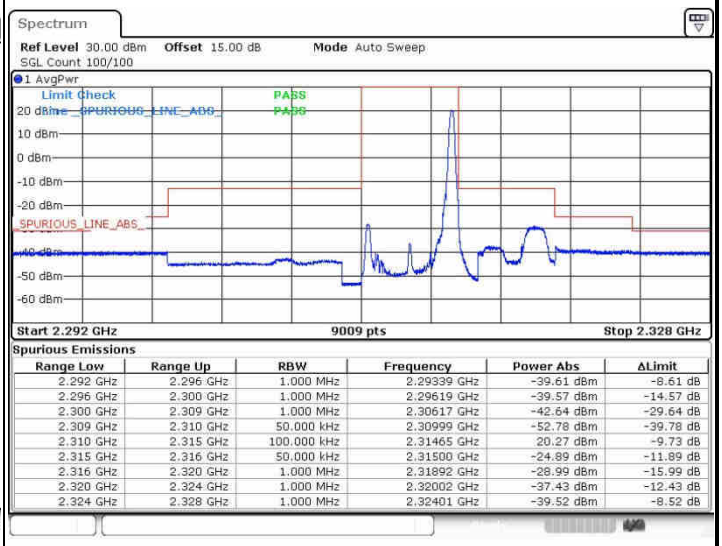
Highest Band Edge / 1 RB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.292 GHz	2.296 GHz	1.000 MHz	2.29339 GHz	-39.61 dBm	-8.61 dB
2.296 GHz	2.300 GHz	1.000 MHz	2.29619 GHz	-39.57 dBm	-14.57 dB
2.300 GHz	2.309 GHz	1.000 MHz	2.30617 GHz	-42.64 dBm	-29.64 dB
2.309 GHz	2.310 GHz	50.000 kHz	2.30999 GHz	-52.78 dBm	-39.78 dB
2.310 GHz	2.315 GHz	100.000 kHz	2.31465 GHz	20.27 dBm	-9.73 dB
2.315 GHz	2.316 GHz	50.000 kHz	2.31500 GHz	-24.89 dBm	-11.89 dB
2.316 GHz	2.320 GHz	1.000 MHz	2.31892 GHz	-28.99 dBm	-15.99 dB
2.320 GHz	2.324 GHz	1.000 MHz	2.32002 GHz	-37.43 dBm	-12.43 dB
2.324 GHz	2.328 GHz	1.000 MHz	2.32401 GHz	-39.52 dBm	-8.52 dB

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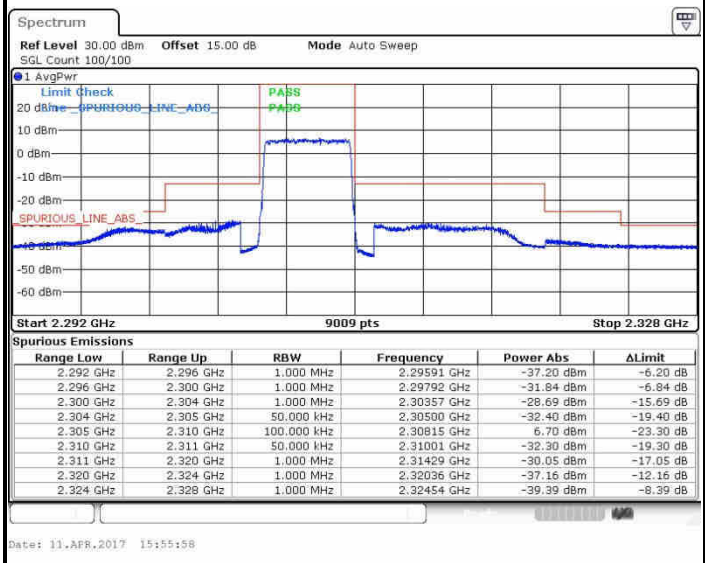
Lowest Band Edge / Full RB

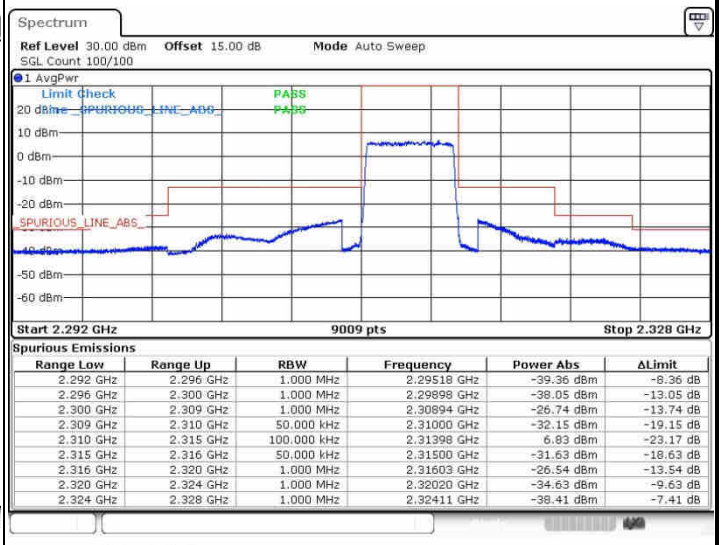


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.292 GHz	2.296 GHz	1.000 MHz	2.29591 GHz	-37.20 dBm	-6.20 dB
2.296 GHz	2.300 GHz	1.000 MHz	2.29792 GHz	-31.84 dBm	-6.84 dB
2.300 GHz	2.304 GHz	1.000 MHz	2.30357 GHz	-28.69 dBm	-15.69 dB
2.304 GHz	2.305 GHz	50.000 kHz	2.30500 GHz	-32.40 dBm	-19.40 dB
2.305 GHz	2.310 GHz	100.000 kHz	2.30815 GHz	6.70 dBm	-23.30 dB
2.310 GHz	2.311 GHz	50.000 kHz	2.31001 GHz	-32.30 dBm	-19.30 dB
2.311 GHz	2.320 GHz	1.000 MHz	2.31429 GHz	-30.05 dBm	-17.05 dB
2.320 GHz	2.324 GHz	1.000 MHz	2.32036 GHz	-37.16 dBm	-12.16 dB
2.324 GHz	2.328 GHz	1.000 MHz	2.32454 GHz	-39.39 dBm	-8.39 dB

Date: 11.APR.2017 15:55:58

Highest Band Edge / Full RB



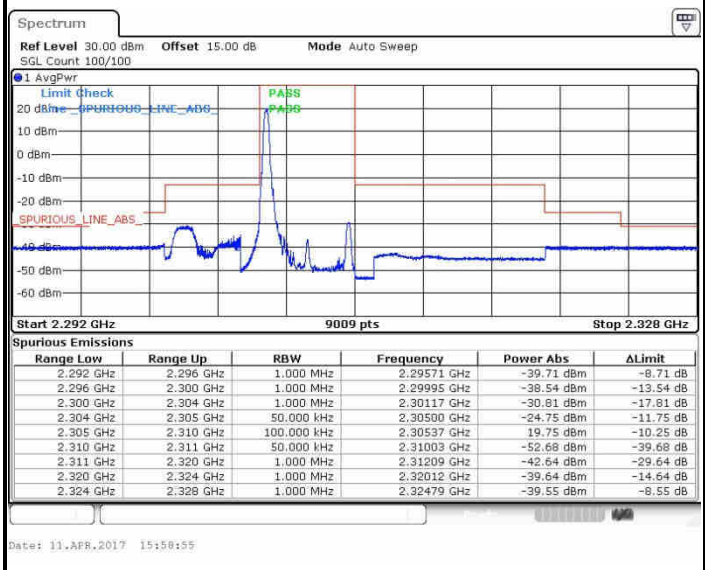
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.292 GHz	2.296 GHz	1.000 MHz	2.29518 GHz	-39.36 dBm	-8.36 dB
2.296 GHz	2.300 GHz	1.000 MHz	2.29898 GHz	-38.05 dBm	-13.05 dB
2.300 GHz	2.309 GHz	1.000 MHz	2.30894 GHz	-26.74 dBm	-13.74 dB
2.309 GHz	2.310 GHz	50.000 kHz	2.31000 GHz	-32.15 dBm	-19.15 dB
2.310 GHz	2.315 GHz	100.000 kHz	2.31398 GHz	6.83 dBm	-23.17 dB
2.315 GHz	2.316 GHz	50.000 kHz	2.31500 GHz	-31.63 dBm	-18.63 dB
2.316 GHz	2.320 GHz	1.000 MHz	2.31603 GHz	-26.54 dBm	-13.54 dB
2.320 GHz	2.324 GHz	1.000 MHz	2.32020 GHz	-34.63 dBm	-9.63 dB
2.324 GHz	2.328 GHz	1.000 MHz	2.32411 GHz	-38.41 dBm	-7.41 dB

Date: 11.APR.2017 16:03:37

LTE Band 30 / 5MHz / 16QAM

Lowest Band Edge / 1RB

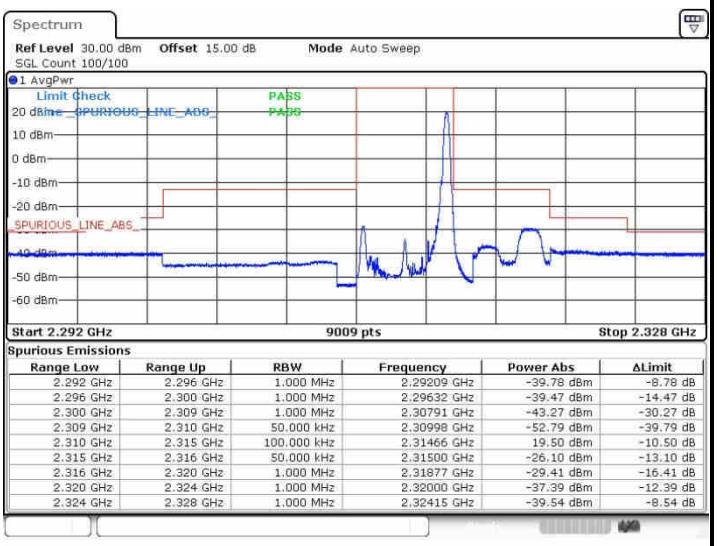


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.292 GHz	2.296 GHz	1.000 MHz	2.29571 GHz	-39.71 dBm	-8.71 dB
2.296 GHz	2.300 GHz	1.000 MHz	2.29995 GHz	-38.54 dBm	-13.54 dB
2.300 GHz	2.304 GHz	1.000 MHz	2.30117 GHz	-30.81 dBm	-17.81 dB
2.304 GHz	2.305 GHz	50.000 kHz	2.30500 GHz	-24.75 dBm	-11.75 dB
2.305 GHz	2.310 GHz	100.000 kHz	2.30537 GHz	19.75 dBm	-10.25 dB
2.310 GHz	2.311 GHz	50.000 kHz	2.31003 GHz	-52.68 dBm	-39.68 dB
2.311 GHz	2.320 GHz	1.000 MHz	2.31209 GHz	-42.64 dBm	-29.64 dB
2.320 GHz	2.324 GHz	1.000 MHz	2.32012 GHz	-39.64 dBm	-14.64 dB
2.324 GHz	2.328 GHz	1.000 MHz	2.32479 GHz	-39.55 dBm	-8.55 dB

Date: 11.APR.2017 15:58:55

Highest Band Edge / 1 RB

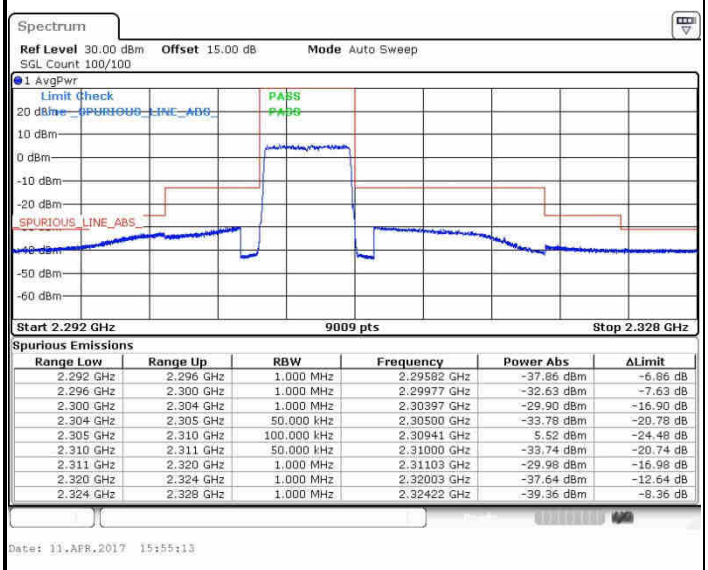


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.292 GHz	2.296 GHz	1.000 MHz	2.29209 GHz	-39.78 dBm	-8.78 dB
2.296 GHz	2.300 GHz	1.000 MHz	2.29632 GHz	-39.47 dBm	-14.47 dB
2.300 GHz	2.309 GHz	1.000 MHz	2.30791 GHz	-43.27 dBm	-30.27 dB
2.309 GHz	2.310 GHz	50.000 kHz	2.30998 GHz	-52.79 dBm	-39.79 dB
2.310 GHz	2.315 GHz	100.000 kHz	2.31466 GHz	19.50 dBm	-10.50 dB
2.315 GHz	2.316 GHz	50.000 kHz	2.31500 GHz	-26.10 dBm	-13.10 dB
2.316 GHz	2.320 GHz	1.000 MHz	2.31877 GHz	-29.41 dBm	-16.41 dB
2.320 GHz	2.324 GHz	1.000 MHz	2.32000 GHz	-37.39 dBm	-12.39 dB
2.324 GHz	2.328 GHz	1.000 MHz	2.32415 GHz	-39.54 dBm	-8.54 dB

Date: 11.APR.2017 16:13:14

Lowest Band Edge / Full RB

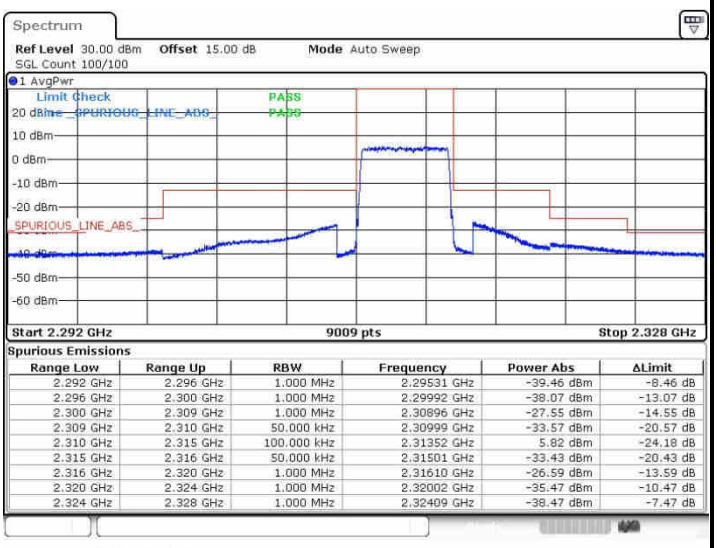


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.292 GHz	2.296 GHz	1.000 MHz	2.29582 GHz	-37.86 dBm	-6.86 dB
2.296 GHz	2.300 GHz	1.000 MHz	2.29977 GHz	-32.63 dBm	-7.63 dB
2.300 GHz	2.304 GHz	1.000 MHz	2.30397 GHz	-29.90 dBm	-16.90 dB
2.304 GHz	2.305 GHz	50.000 kHz	2.30500 GHz	-33.78 dBm	-20.78 dB
2.305 GHz	2.310 GHz	100.000 kHz	2.30941 GHz	5.52 dBm	-24.48 dB
2.310 GHz	2.311 GHz	50.000 kHz	2.31000 GHz	-33.74 dBm	-20.74 dB
2.311 GHz	2.320 GHz	1.000 MHz	2.31103 GHz	-29.98 dBm	-16.98 dB
2.320 GHz	2.324 GHz	1.000 MHz	2.32003 GHz	-37.64 dBm	-12.64 dB
2.324 GHz	2.328 GHz	1.000 MHz	2.32422 GHz	-39.36 dBm	-8.36 dB

Date: 11.APR.2017 15:55:13

Highest Band Edge / Full RB



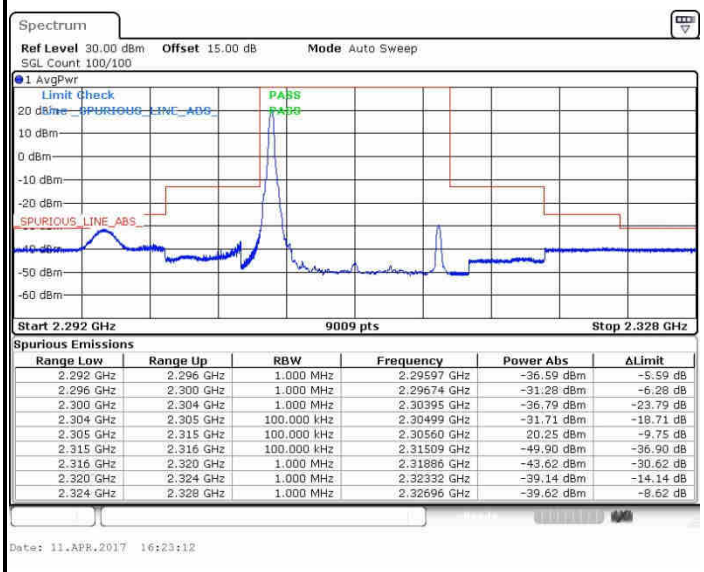
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.292 GHz	2.296 GHz	1.000 MHz	2.29531 GHz	-39.46 dBm	-8.46 dB
2.296 GHz	2.300 GHz	1.000 MHz	2.29992 GHz	-38.07 dBm	-13.07 dB
2.300 GHz	2.309 GHz	1.000 MHz	2.30896 GHz	-27.55 dBm	-14.55 dB
2.309 GHz	2.310 GHz	50.000 kHz	2.30999 GHz	-33.57 dBm	-20.57 dB
2.310 GHz	2.315 GHz	100.000 kHz	2.31352 GHz	5.82 dBm	-24.18 dB
2.315 GHz	2.316 GHz	50.000 kHz	2.31501 GHz	-33.43 dBm	-20.43 dB
2.316 GHz	2.320 GHz	1.000 MHz	2.31610 GHz	-26.59 dBm	-13.59 dB
2.320 GHz	2.324 GHz	1.000 MHz	2.32002 GHz	-35.47 dBm	-10.47 dB
2.324 GHz	2.328 GHz	1.000 MHz	2.32409 GHz	-38.47 dBm	-7.47 dB

Date: 11.APR.2017 16:09:40

LTE Band 30 / 10MHz / QPSK

Lowest Band Edge / 1 RB

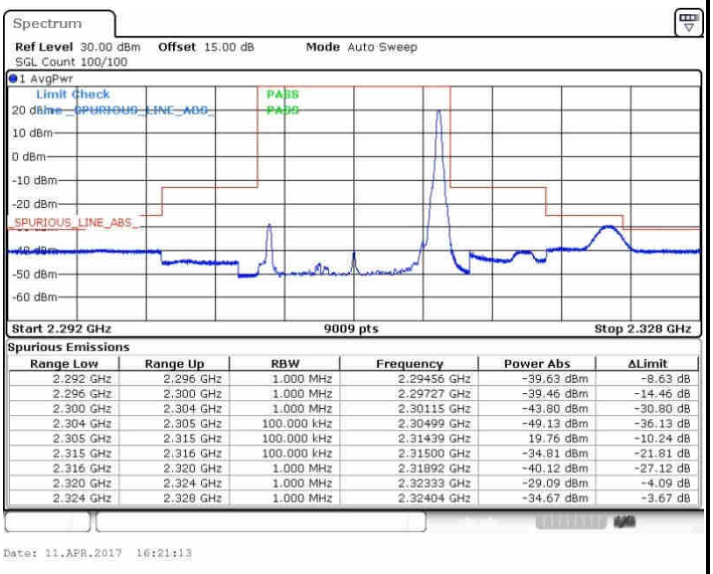


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.292 GHz	2.296 GHz	1.000 MHz	2.29597 GHz	-36.59 dBm	-5.59 dB
2.296 GHz	2.300 GHz	1.000 MHz	2.29674 GHz	-31.28 dBm	-6.28 dB
2.300 GHz	2.304 GHz	1.000 MHz	2.30395 GHz	-36.79 dBm	-23.79 dB
2.304 GHz	2.305 GHz	100.000 kHz	2.30499 GHz	-31.71 dBm	-18.71 dB
2.305 GHz	2.315 GHz	100.000 kHz	2.30560 GHz	20.25 dBm	-9.75 dB
2.315 GHz	2.316 GHz	100.000 kHz	2.31509 GHz	-49.90 dBm	-36.90 dB
2.316 GHz	2.320 GHz	1.000 MHz	2.31886 GHz	-43.62 dBm	-30.62 dB
2.320 GHz	2.324 GHz	1.000 MHz	2.32332 GHz	-39.14 dBm	-14.14 dB
2.324 GHz	2.328 GHz	1.000 MHz	2.32696 GHz	-39.62 dBm	-8.62 dB

Date: 11.APR.2017 16:23:12

Highest Band Edge / 1 RB

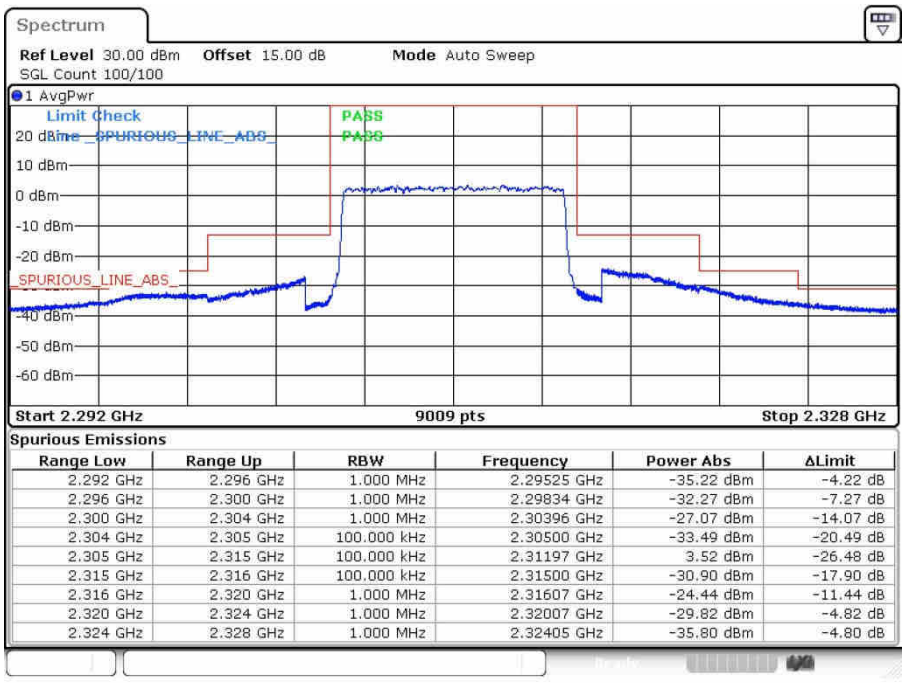


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.292 GHz	2.296 GHz	1.000 MHz	2.29456 GHz	-39.63 dBm	-8.63 dB
2.296 GHz	2.300 GHz	1.000 MHz	2.29727 GHz	-39.46 dBm	-14.46 dB
2.300 GHz	2.304 GHz	1.000 MHz	2.30115 GHz	-43.80 dBm	-30.80 dB
2.304 GHz	2.305 GHz	100.000 kHz	2.30499 GHz	-49.13 dBm	-36.13 dB
2.305 GHz	2.315 GHz	100.000 kHz	2.31439 GHz	19.76 dBm	-10.24 dB
2.315 GHz	2.316 GHz	100.000 kHz	2.31500 GHz	-34.81 dBm	-21.81 dB
2.316 GHz	2.320 GHz	1.000 MHz	2.31892 GHz	-40.12 dBm	-27.12 dB
2.320 GHz	2.324 GHz	1.000 MHz	2.32333 GHz	-29.09 dBm	-4.09 dB
2.324 GHz	2.328 GHz	1.000 MHz	2.32404 GHz	-34.67 dBm	-3.67 dB

Date: 11.APR.2017 16:21:13

Band Edge / Full RB



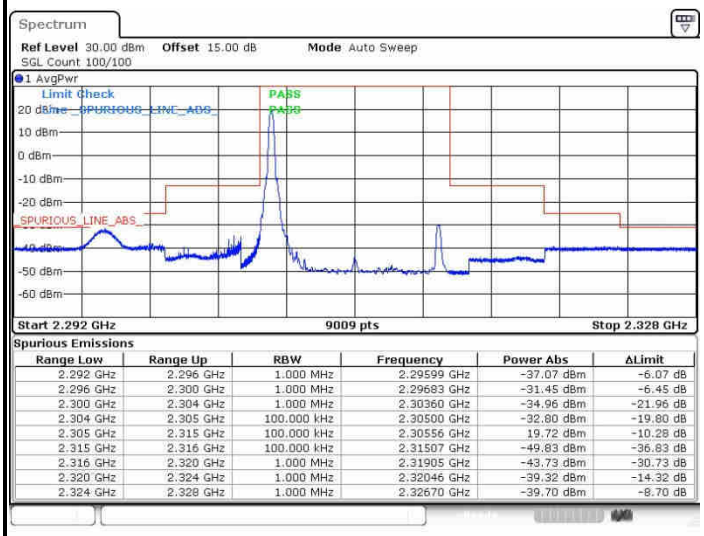
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.292 GHz	2.296 GHz	1.000 MHz	2.29525 GHz	-35.22 dBm	-4.22 dB
2.296 GHz	2.300 GHz	1.000 MHz	2.29834 GHz	-32.27 dBm	-7.27 dB
2.300 GHz	2.304 GHz	1.000 MHz	2.30396 GHz	-27.07 dBm	-14.07 dB
2.304 GHz	2.305 GHz	100.000 kHz	2.30500 GHz	-33.49 dBm	-20.49 dB
2.305 GHz	2.315 GHz	100.000 kHz	2.31197 GHz	3.52 dBm	-26.48 dB
2.315 GHz	2.316 GHz	100.000 kHz	2.31500 GHz	-30.90 dBm	-17.90 dB
2.316 GHz	2.320 GHz	1.000 MHz	2.31607 GHz	-24.44 dBm	-11.44 dB
2.320 GHz	2.324 GHz	1.000 MHz	2.32007 GHz	-29.82 dBm	-4.82 dB
2.324 GHz	2.328 GHz	1.000 MHz	2.32405 GHz	-35.80 dBm	-4.80 dB

Date: 11.APR.2017 16:14:33

LTE Band 30 / 10MHz / 16QAM

Lowest Band Edge / 1 RB

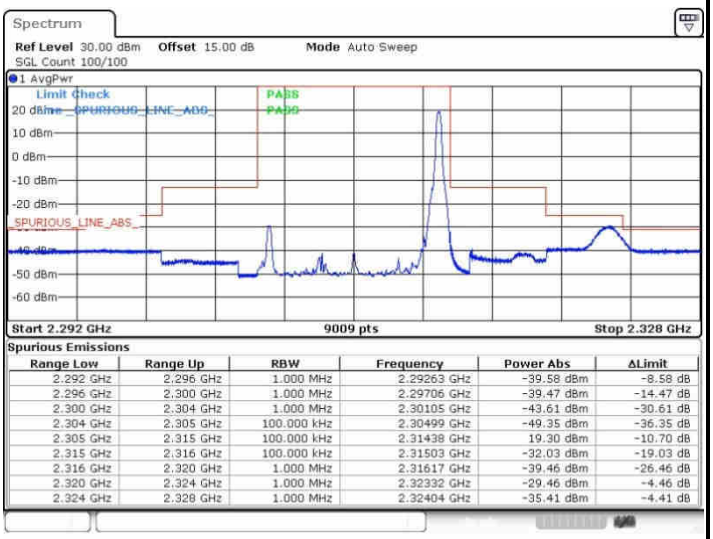


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.292 GHz	2.296 GHz	1.000 MHz	2.29599 GHz	-37.07 dBm	-6.07 dB
2.296 GHz	2.300 GHz	1.000 MHz	2.29683 GHz	-31.45 dBm	-6.45 dB
2.300 GHz	2.304 GHz	1.000 MHz	2.30360 GHz	-34.96 dBm	-21.96 dB
2.304 GHz	2.305 GHz	100.000 kHz	2.30500 GHz	-32.80 dBm	-19.80 dB
2.305 GHz	2.315 GHz	100.000 kHz	2.30556 GHz	19.72 dBm	-10.28 dB
2.315 GHz	2.316 GHz	100.000 kHz	2.31507 GHz	-49.83 dBm	-36.83 dB
2.316 GHz	2.320 GHz	1.000 MHz	2.31905 GHz	-43.73 dBm	-30.73 dB
2.320 GHz	2.324 GHz	1.000 MHz	2.32046 GHz	-39.32 dBm	-14.32 dB
2.324 GHz	2.328 GHz	1.000 MHz	2.32670 GHz	-39.70 dBm	-8.70 dB

Date: 11.APR.2017 16:22:46

Highest Band Edge / 1 RB

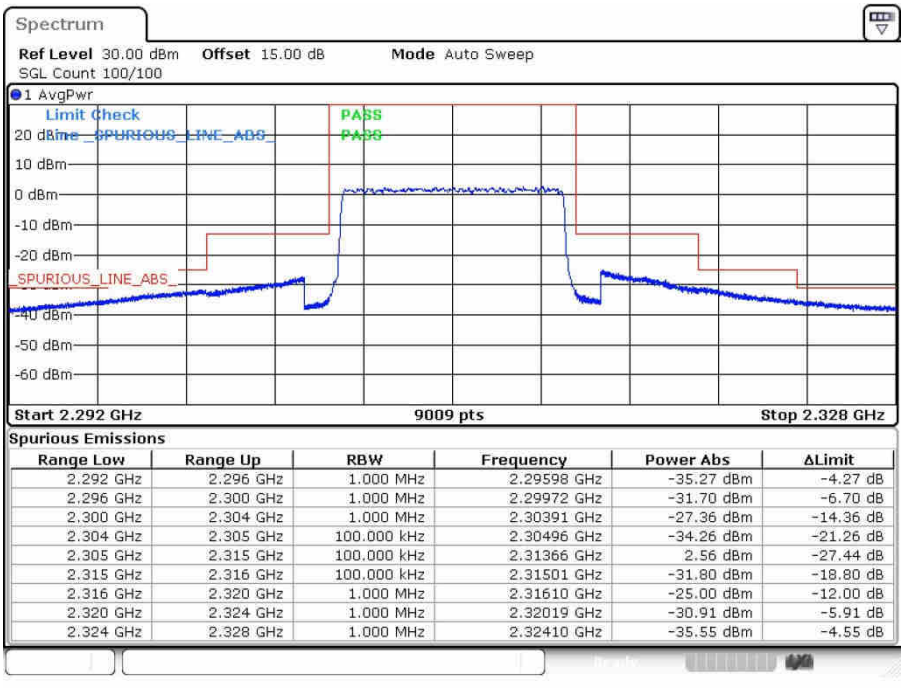


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.292 GHz	2.296 GHz	1.000 MHz	2.29263 GHz	-39.58 dBm	-8.58 dB
2.296 GHz	2.300 GHz	1.000 MHz	2.29706 GHz	-39.47 dBm	-14.47 dB
2.300 GHz	2.304 GHz	1.000 MHz	2.30105 GHz	-43.61 dBm	-30.61 dB
2.304 GHz	2.305 GHz	100.000 kHz	2.30499 GHz	-49.35 dBm	-36.35 dB
2.305 GHz	2.315 GHz	100.000 kHz	2.31438 GHz	19.30 dBm	-10.70 dB
2.315 GHz	2.316 GHz	100.000 kHz	2.31503 GHz	-32.03 dBm	-19.03 dB
2.316 GHz	2.320 GHz	1.000 MHz	2.31617 GHz	-39.46 dBm	-26.46 dB
2.320 GHz	2.324 GHz	1.000 MHz	2.32332 GHz	-29.46 dBm	-4.46 dB
2.324 GHz	2.328 GHz	1.000 MHz	2.32404 GHz	-35.41 dBm	-4.41 dB

Date: 11.APR.2017 16:21:48

Band Edge / Full RB



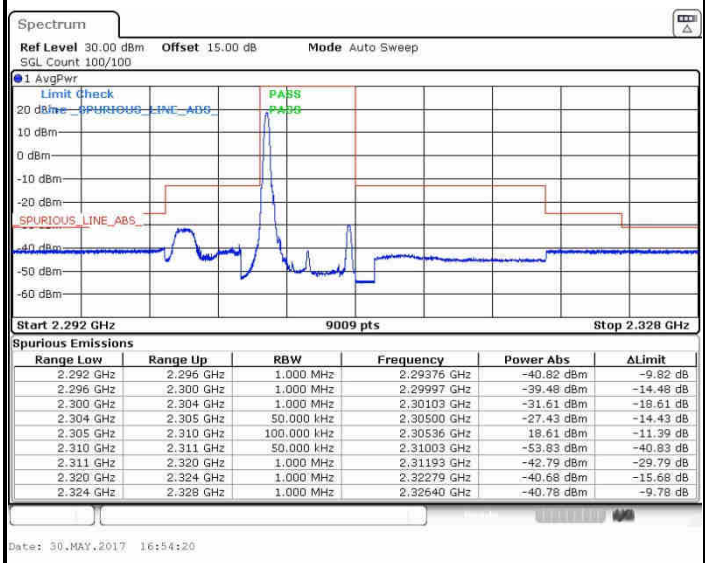
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.292 GHz	2.296 GHz	1.000 MHz	2.29598 GHz	-35.27 dBm	-4.27 dB
2.296 GHz	2.300 GHz	1.000 MHz	2.29972 GHz	-31.70 dBm	-6.70 dB
2.300 GHz	2.304 GHz	1.000 MHz	2.30391 GHz	-27.36 dBm	-14.36 dB
2.304 GHz	2.305 GHz	100.000 kHz	2.30496 GHz	-34.26 dBm	-21.26 dB
2.305 GHz	2.315 GHz	100.000 kHz	2.31366 GHz	2.56 dBm	-27.44 dB
2.315 GHz	2.316 GHz	100.000 kHz	2.31501 GHz	-31.80 dBm	-18.80 dB
2.316 GHz	2.320 GHz	1.000 MHz	2.31610 GHz	-25.00 dBm	-12.00 dB
2.320 GHz	2.324 GHz	1.000 MHz	2.32019 GHz	-30.91 dBm	-5.91 dB
2.324 GHz	2.328 GHz	1.000 MHz	2.32410 GHz	-35.55 dBm	-4.55 dB

Date: 11.APR.2017 16:17:35

LTE Band 30 / 5MHz / 64QAM

Lowest Band Edge / 1 RB

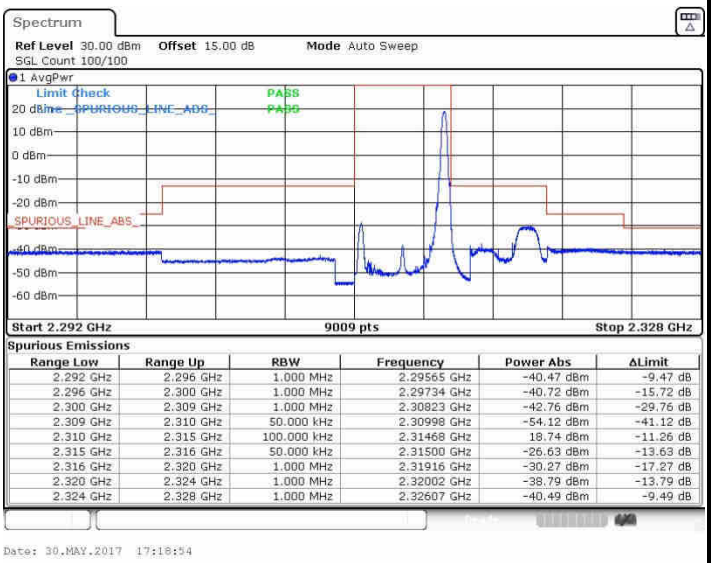


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.292 GHz	2.296 GHz	1.000 MHz	2.29376 GHz	-40.82 dBm	-9.82 dB
2.296 GHz	2.300 GHz	1.000 MHz	2.29997 GHz	-39.48 dBm	-14.48 dB
2.300 GHz	2.304 GHz	1.000 MHz	2.30103 GHz	-31.61 dBm	-18.61 dB
2.304 GHz	2.305 GHz	50.000 kHz	2.30500 GHz	-27.43 dBm	-14.43 dB
2.305 GHz	2.310 GHz	100.000 kHz	2.30536 GHz	18.61 dBm	-11.39 dB
2.310 GHz	2.311 GHz	50.000 kHz	2.31003 GHz	-53.83 dBm	-40.83 dB
2.311 GHz	2.320 GHz	1.000 MHz	2.31193 GHz	-42.79 dBm	-29.79 dB
2.320 GHz	2.324 GHz	1.000 MHz	2.32279 GHz	-40.68 dBm	-15.68 dB
2.324 GHz	2.328 GHz	1.000 MHz	2.32640 GHz	-40.78 dBm	-9.78 dB

Date: 30.MAY.2017 16:54:20

Highest Band Edge / 1 RB

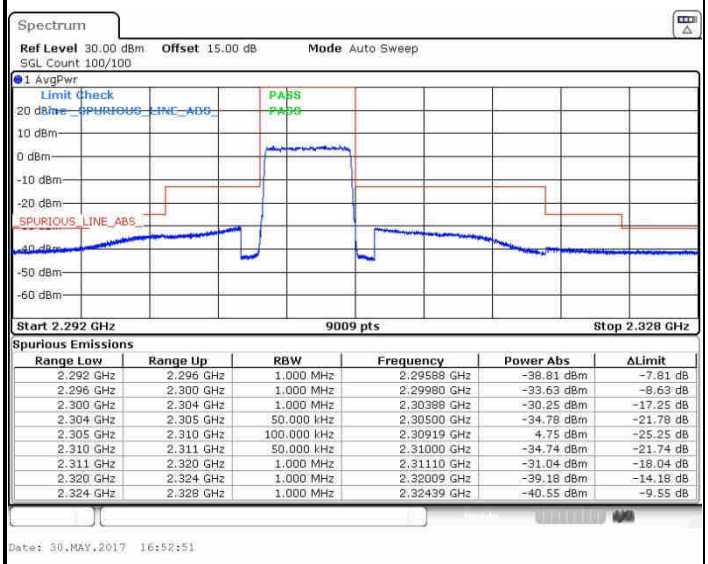


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.292 GHz	2.296 GHz	1.000 MHz	2.29565 GHz	-40.47 dBm	-9.47 dB
2.296 GHz	2.300 GHz	1.000 MHz	2.29734 GHz	-40.72 dBm	-15.72 dB
2.300 GHz	2.309 GHz	1.000 MHz	2.30823 GHz	-42.76 dBm	-29.76 dB
2.309 GHz	2.310 GHz	50.000 kHz	2.30998 GHz	-54.12 dBm	-41.12 dB
2.310 GHz	2.315 GHz	100.000 kHz	2.31468 GHz	18.74 dBm	-11.26 dB
2.315 GHz	2.316 GHz	50.000 kHz	2.31500 GHz	-26.63 dBm	-13.63 dB
2.316 GHz	2.320 GHz	1.000 MHz	2.31916 GHz	-30.27 dBm	-17.27 dB
2.320 GHz	2.324 GHz	1.000 MHz	2.32002 GHz	-38.79 dBm	-13.79 dB
2.324 GHz	2.328 GHz	1.000 MHz	2.32607 GHz	-40.49 dBm	-9.49 dB

Date: 30.MAY.2017 17:18:54

Lowest Band Edge / Full RB

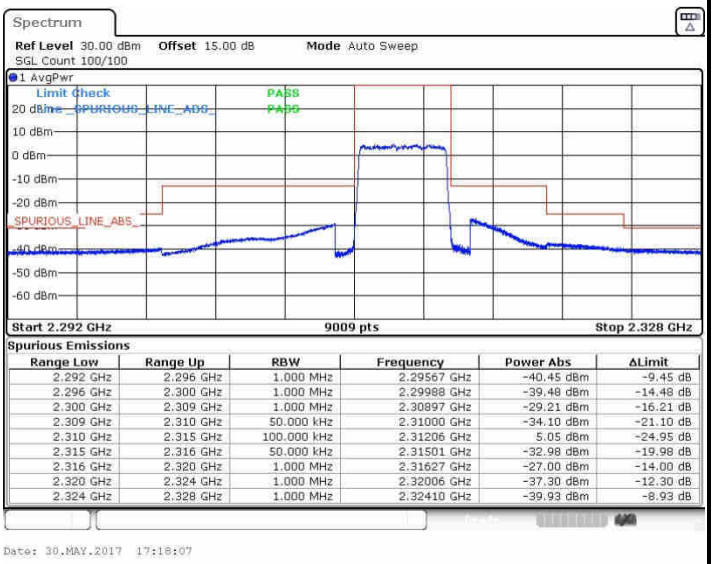


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.292 GHz	2.296 GHz	1.000 MHz	2.29588 GHz	-38.81 dBm	-7.81 dB
2.296 GHz	2.300 GHz	1.000 MHz	2.29980 GHz	-33.63 dBm	-8.63 dB
2.300 GHz	2.304 GHz	1.000 MHz	2.30388 GHz	-30.25 dBm	-17.25 dB
2.304 GHz	2.305 GHz	50.000 kHz	2.30500 GHz	-34.78 dBm	-21.78 dB
2.305 GHz	2.310 GHz	100.000 kHz	2.30919 GHz	4.75 dBm	-25.25 dB
2.310 GHz	2.311 GHz	50.000 kHz	2.31000 GHz	-34.74 dBm	-21.74 dB
2.311 GHz	2.320 GHz	1.000 MHz	2.31110 GHz	-31.04 dBm	-18.04 dB
2.320 GHz	2.324 GHz	1.000 MHz	2.32009 GHz	-39.18 dBm	-14.18 dB
2.324 GHz	2.328 GHz	1.000 MHz	2.32439 GHz	-40.55 dBm	-9.55 dB

Date: 30.MAY.2017 16:52:51

Highest Band Edge / Full RB



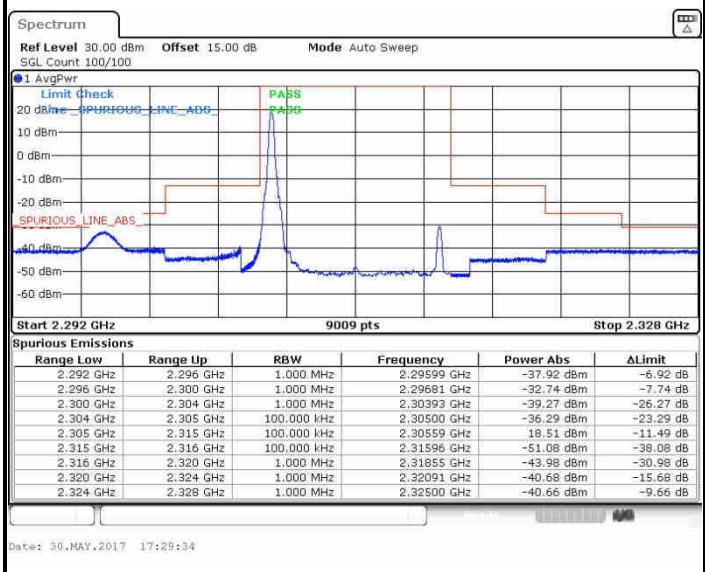
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.292 GHz	2.296 GHz	1.000 MHz	2.29567 GHz	-40.45 dBm	-9.45 dB
2.296 GHz	2.300 GHz	1.000 MHz	2.29988 GHz	-39.48 dBm	-14.48 dB
2.300 GHz	2.309 GHz	1.000 MHz	2.30897 GHz	-29.21 dBm	-16.21 dB
2.309 GHz	2.310 GHz	50.000 kHz	2.31000 GHz	-34.10 dBm	-21.10 dB
2.310 GHz	2.315 GHz	100.000 kHz	2.31206 GHz	5.05 dBm	-24.95 dB
2.315 GHz	2.316 GHz	50.000 kHz	2.31501 GHz	-32.98 dBm	-19.98 dB
2.316 GHz	2.320 GHz	1.000 MHz	2.31627 GHz	-27.00 dBm	-14.00 dB
2.320 GHz	2.324 GHz	1.000 MHz	2.32006 GHz	-37.30 dBm	-12.30 dB
2.324 GHz	2.328 GHz	1.000 MHz	2.32410 GHz	-39.93 dBm	-8.93 dB

Date: 30.MAY.2017 17:18:07

LTE Band 30 / 10MHz / 64QAM

Band Edge / 1 RB

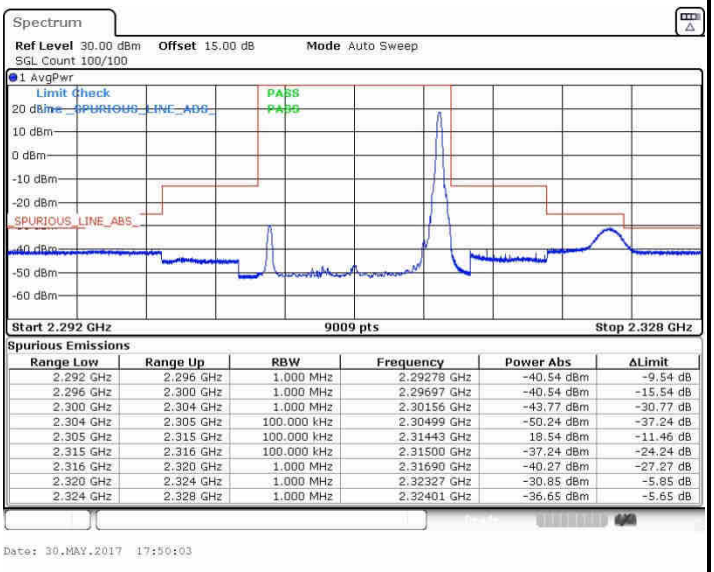


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.292 GHz	2.296 GHz	1.000 MHz	2.29599 GHz	-37.92 dBm	-6.92 dB
2.296 GHz	2.300 GHz	1.000 MHz	2.29681 GHz	-32.74 dBm	-7.74 dB
2.300 GHz	2.304 GHz	1.000 MHz	2.30393 GHz	-39.27 dBm	-26.27 dB
2.304 GHz	2.305 GHz	100.000 kHz	2.30500 GHz	-36.29 dBm	-23.29 dB
2.305 GHz	2.315 GHz	100.000 kHz	2.30559 GHz	18.51 dBm	-11.49 dB
2.315 GHz	2.316 GHz	100.000 kHz	2.31596 GHz	-51.08 dBm	-38.08 dB
2.316 GHz	2.320 GHz	1.000 MHz	2.31855 GHz	-43.98 dBm	-30.98 dB
2.320 GHz	2.324 GHz	1.000 MHz	2.32091 GHz	-40.68 dBm	-15.68 dB
2.324 GHz	2.328 GHz	1.000 MHz	2.32500 GHz	-40.66 dBm	-9.66 dB

Date: 30.MAY.2017 17:29:34

Band Edge / 1 RB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.292 GHz	2.296 GHz	1.000 MHz	2.29278 GHz	-40.54 dBm	-9.54 dB
2.296 GHz	2.300 GHz	1.000 MHz	2.29697 GHz	-40.54 dBm	-15.54 dB
2.300 GHz	2.304 GHz	1.000 MHz	2.30156 GHz	-43.77 dBm	-30.77 dB
2.304 GHz	2.305 GHz	100.000 kHz	2.30499 GHz	-50.24 dBm	-37.24 dB
2.305 GHz	2.315 GHz	100.000 kHz	2.31443 GHz	18.54 dBm	-11.46 dB
2.315 GHz	2.316 GHz	100.000 kHz	2.31500 GHz	-37.24 dBm	-24.24 dB
2.316 GHz	2.320 GHz	1.000 MHz	2.31690 GHz	-40.27 dBm	-27.27 dB
2.320 GHz	2.324 GHz	1.000 MHz	2.32327 GHz	-30.85 dBm	-5.85 dB
2.324 GHz	2.328 GHz	1.000 MHz	2.32401 GHz	-36.65 dBm	-5.65 dB

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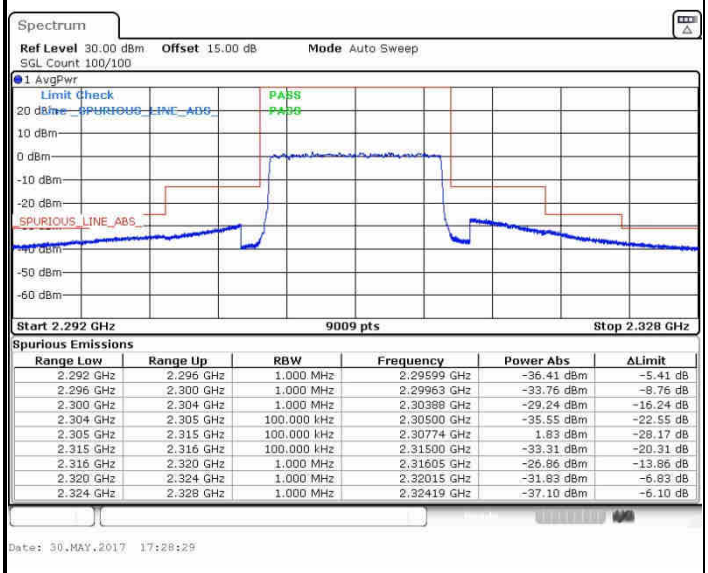
Band Edge / Full RB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.292 GHz	2.296 GHz	1.000 MHz	2.29599 GHz	-36.41 dBm	-5.41 dB
2.296 GHz	2.300 GHz	1.000 MHz	2.29963 GHz	-33.76 dBm	-8.76 dB
2.300 GHz	2.304 GHz	1.000 MHz	2.30388 GHz	-29.24 dBm	-16.24 dB
2.304 GHz	2.305 GHz	100.000 kHz	2.30500 GHz	-35.55 dBm	-22.55 dB
2.305 GHz	2.315 GHz	100.000 kHz	2.30774 GHz	1.83 dBm	-28.17 dB
2.315 GHz	2.316 GHz	100.000 kHz	2.31500 GHz	-33.31 dBm	-20.31 dB
2.316 GHz	2.320 GHz	1.000 MHz	2.31605 GHz	-26.86 dBm	-13.86 dB
2.320 GHz	2.324 GHz	1.000 MHz	2.32015 GHz	-31.83 dBm	-6.83 dB
2.324 GHz	2.328 GHz	1.000 MHz	2.32419 GHz	-37.10 dBm	-6.10 dB

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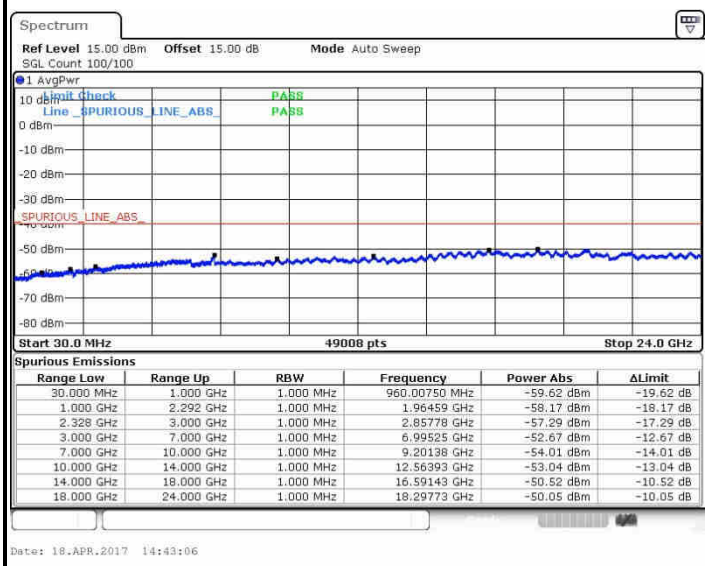
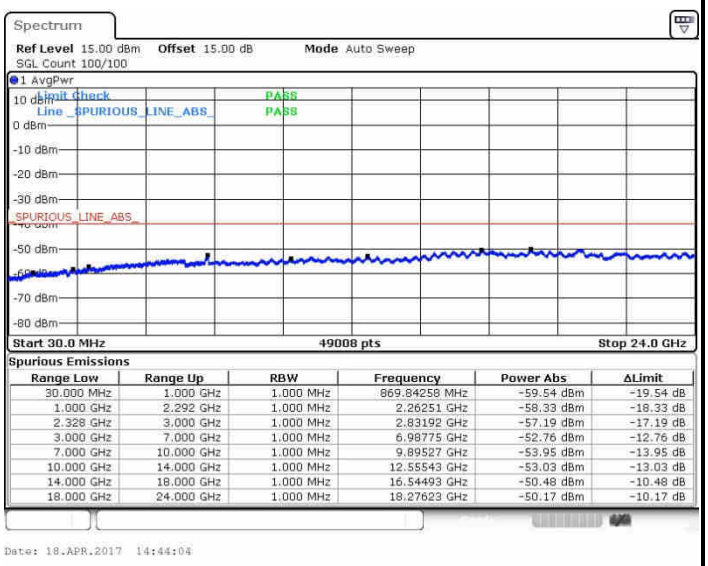
Conducted Spurious Emission

LTE Band 30 / 5MHz

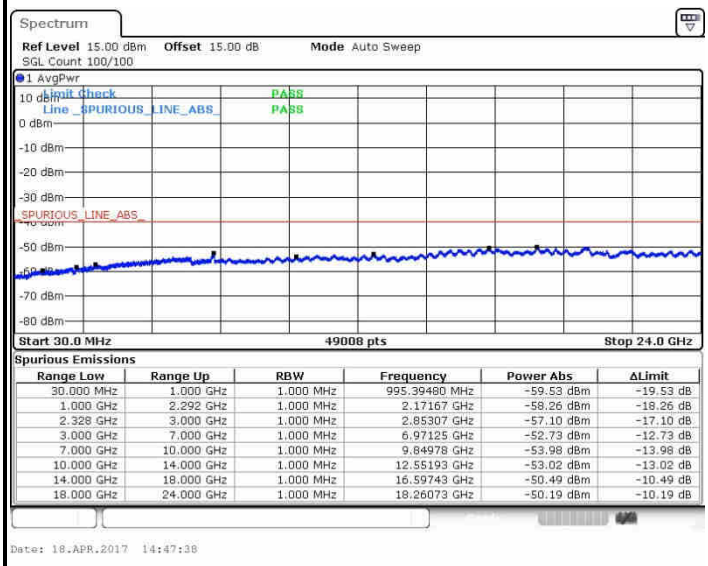
Lowest Channel / QPSK



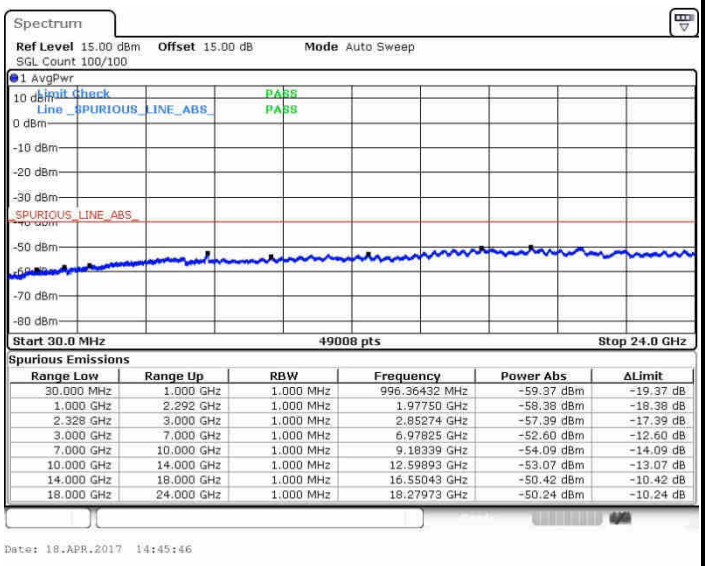
Lowest Channel / 16QAM



Middle Channel / QPSK

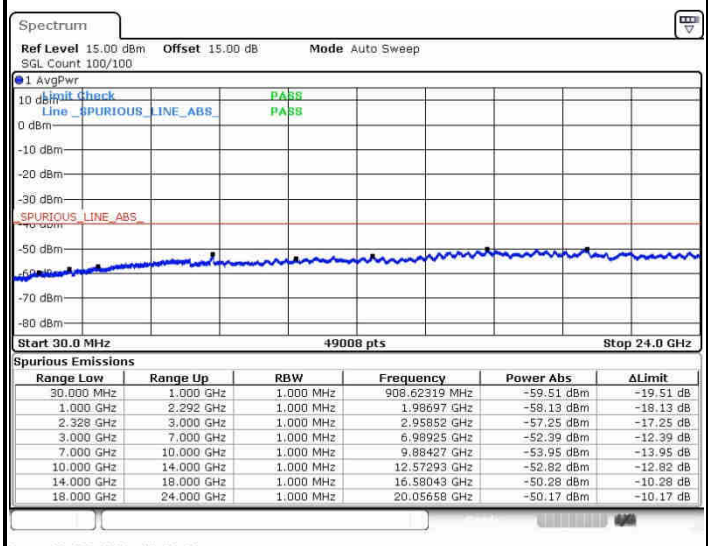


Middle Channel / 16QAM



LTE Band 30 / 5MHz

Highest Channel / QPSK



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	908.62319 MHz	-59.51 dBm	-19.51 dB
1.000 GHz	2.292 GHz	1.000 MHz	1.98697 GHz	-58.13 dBm	-18.13 dB
2.328 GHz	3.000 GHz	1.000 MHz	2.95852 GHz	-57.25 dBm	-17.25 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.98925 GHz	-52.39 dBm	-12.39 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.88427 GHz	-53.95 dBm	-13.95 dB
10.000 GHz	14.000 GHz	1.000 MHz	12.57293 GHz	-52.82 dBm	-12.82 dB
14.000 GHz	18.000 GHz	1.000 MHz	16.58043 GHz	-50.28 dBm	-10.28 dB
18.000 GHz	24.000 GHz	1.000 MHz	20.05658 GHz	-50.17 dBm	-10.17 dB

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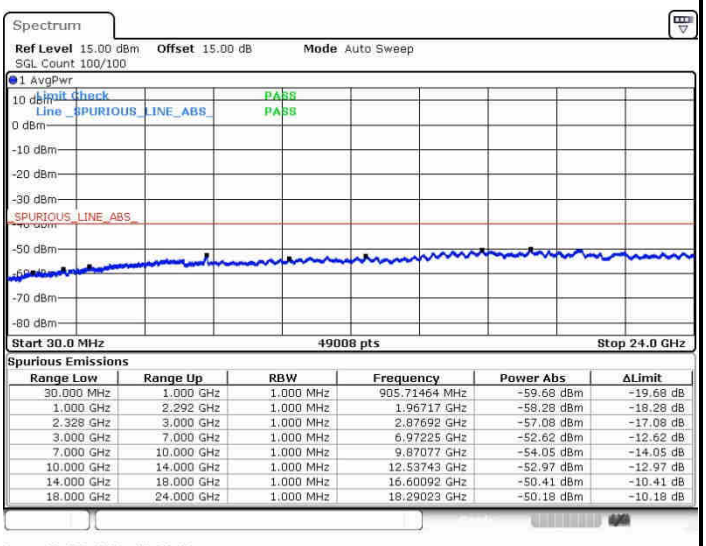
Highest Channel / 16QAM



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	905.71464 MHz	-59.68 dBm	-19.68 dB
1.000 GHz	2.292 GHz	1.000 MHz	1.96717 GHz	-58.28 dBm	-18.28 dB
2.328 GHz	3.000 GHz	1.000 MHz	2.87692 GHz	-57.08 dBm	-17.08 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.97225 GHz	-52.62 dBm	-12.62 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.87077 GHz	-54.05 dBm	-14.05 dB
10.000 GHz	14.000 GHz	1.000 MHz	12.53743 GHz	-52.97 dBm	-12.97 dB
14.000 GHz	18.000 GHz	1.000 MHz	16.60092 GHz	-50.41 dBm	-10.41 dB
18.000 GHz	24.000 GHz	1.000 MHz	18.29023 GHz	-50.18 dBm	-10.18 dB

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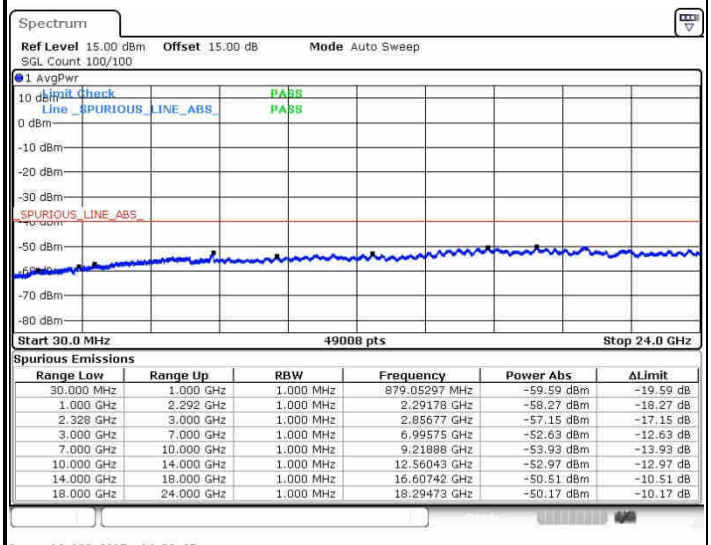
LTE Band 30 / 10MHz

Middle Channel / QPSK



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	879.05297 MHz	-59.59 dBm	-19.59 dB
1.000 GHz	2.292 GHz	1.000 MHz	2.29178 GHz	-58.27 dBm	-18.27 dB
2.328 GHz	3.000 GHz	1.000 MHz	2.85677 GHz	-57.15 dBm	-17.15 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.99575 GHz	-52.63 dBm	-12.63 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.21888 GHz	-53.93 dBm	-13.93 dB
10.000 GHz	14.000 GHz	1.000 MHz	12.56043 GHz	-52.97 dBm	-12.97 dB
14.000 GHz	18.000 GHz	1.000 MHz	16.60742 GHz	-50.51 dBm	-10.51 dB
18.000 GHz	24.000 GHz	1.000 MHz	18.29473 GHz	-50.17 dBm	-10.17 dB

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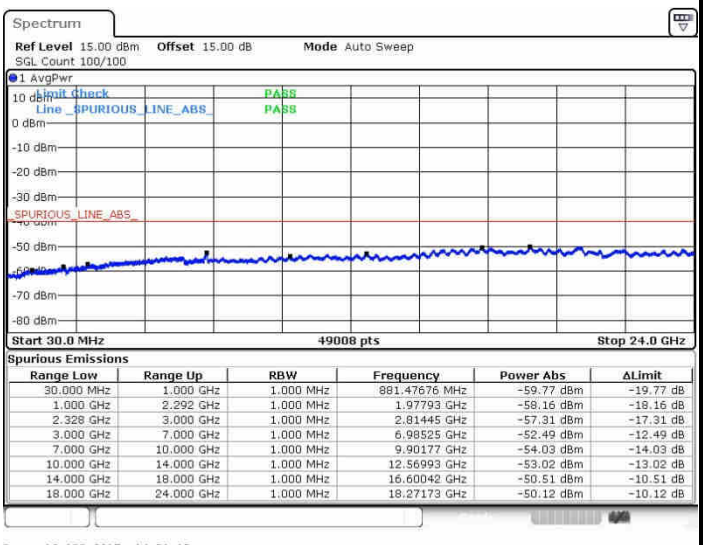
Middle Channel / 16QAM



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	881.47676 MHz	-59.77 dBm	-19.77 dB
1.000 GHz	2.292 GHz	1.000 MHz	1.97793 GHz	-58.16 dBm	-18.16 dB
2.328 GHz	3.000 GHz	1.000 MHz	2.81445 GHz	-57.31 dBm	-17.31 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.98525 GHz	-52.49 dBm	-12.49 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.90177 GHz	-54.03 dBm	-14.03 dB
10.000 GHz	14.000 GHz	1.000 MHz	12.56993 GHz	-53.02 dBm	-13.02 dB
14.000 GHz	18.000 GHz	1.000 MHz	16.60042 GHz	-50.51 dBm	-10.51 dB
18.000 GHz	24.000 GHz	1.000 MHz	18.27173 GHz	-50.12 dBm	-10.12 dB

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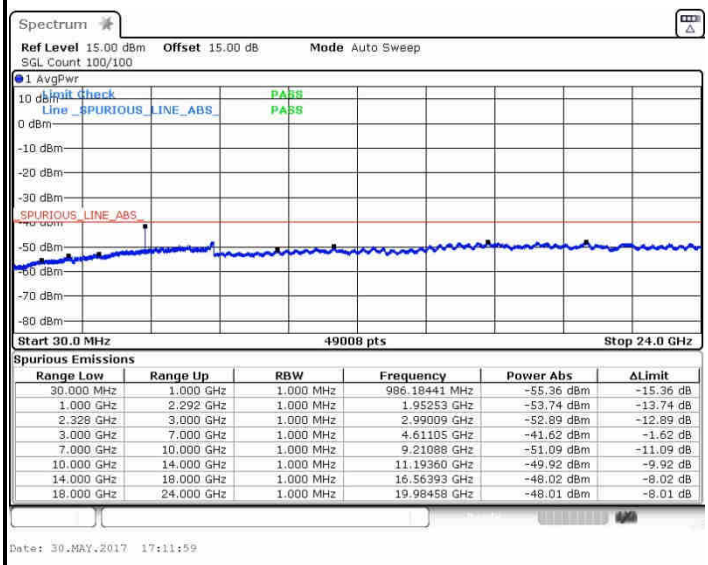
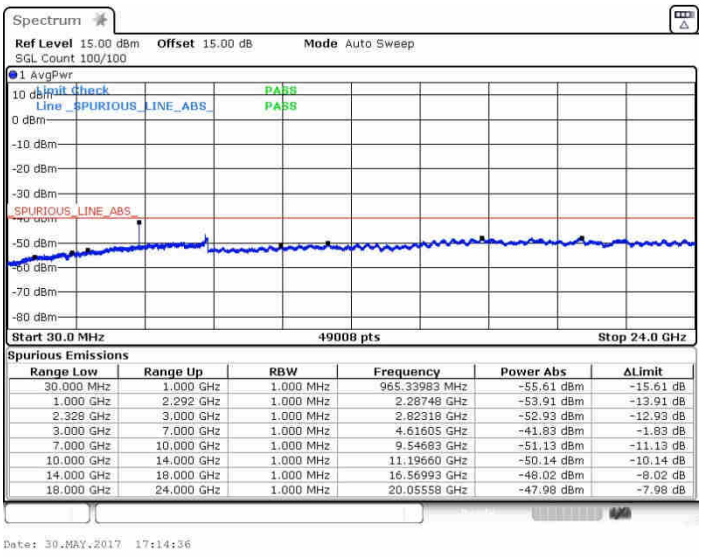
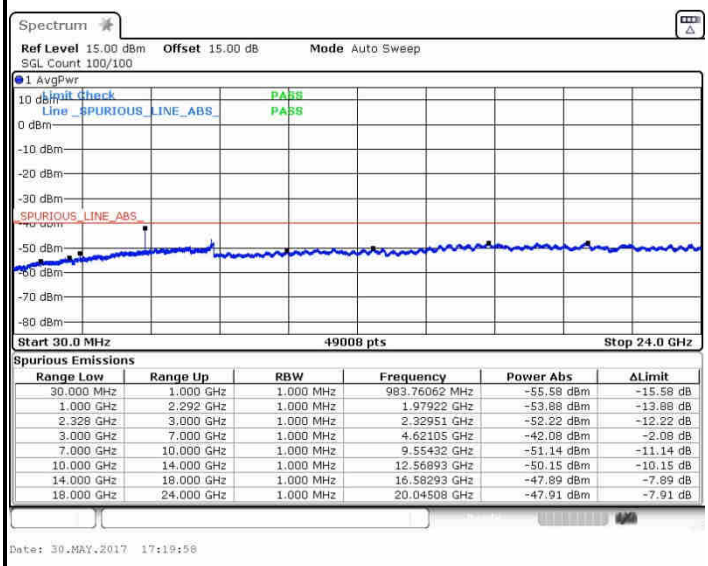
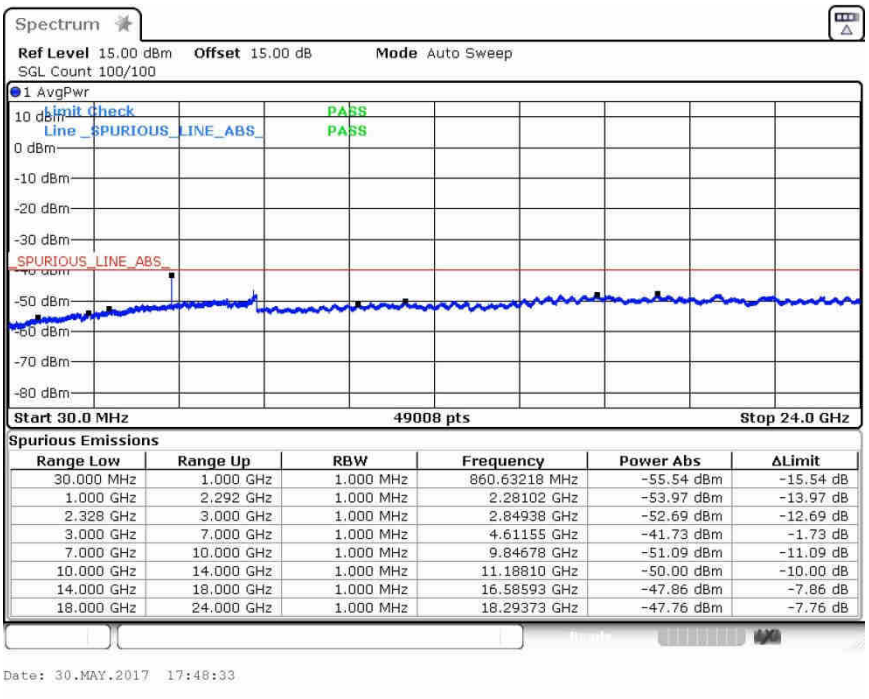
LTE Band 30 / 5MHz	
Lowest Channel / 64QAM	**Middle Channel / 64QAM**
	
Highest Channel / 64QAM	
	

LTE Band 30 / 10MHz
Middle Channel / 64QAM



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	860.63218 MHz	-55.54 dBm	-15.54 dB
1.000 GHz	2.292 GHz	1.000 MHz	2.28102 GHz	-53.97 dBm	-13.97 dB
2.328 GHz	3.000 GHz	1.000 MHz	2.84938 GHz	-52.69 dBm	-12.69 dB
3.000 GHz	7.000 GHz	1.000 MHz	4.61155 GHz	-41.73 dBm	-1.73 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.84678 GHz	-51.09 dBm	-11.09 dB
10.000 GHz	14.000 GHz	1.000 MHz	11.18810 GHz	-50.00 dBm	-10.00 dB
14.000 GHz	18.000 GHz	1.000 MHz	16.58593 GHz	-47.86 dBm	-7.86 dB
18.000 GHz	24.000 GHz	1.000 MHz	18.29373 GHz	-47.76 dBm	-7.76 dB

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Frequency Stability

Test Conditions		LTE Band 30 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0182	PASS
40	Normal Voltage	0.0152	
30	Normal Voltage	0.0052	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0043	
0	Normal Voltage	0.0022	
-10	Normal Voltage	0.0078	
-20	Normal Voltage	0.0143	
-30	Normal Voltage	0.0195	
20	Maximum Voltage	0.0104	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0022	

Note:

1. Normal Voltage =3.9 V.；Battery End Point (BEP) =3.8 V.；Maximum Voltage =4.2 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

<Top Antenna>

LTE Band 30 / 5MHz / QPSK / RB Size 1 Offset 0									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	4610.50	-60.51	-40	-20.51	-79.48	-67.57	5.64	12.70	H
	6915.75	-58.92	-40	-18.92	-80.99	-62.39	8.23	11.70	H
	9221.00	-53.72	-40	-13.72	-80.80	-57.50	8.12	11.90	H
	4610.50	-59.84	-40	-19.84	-79.37	-66.90	5.64	12.70	V
	6915.75	-58.53	-40	-18.53	-81.15	-62.00	8.23	11.70	V
	9221.00	-54.59	-40	-14.59	-80.9	-58.37	8.12	11.90	V
Middle	4615.50	-61.05	-40	-21.05	-79.98	-68.11	5.64	12.70	H
	6923.25	-58.45	-40	-18.45	-80.52	-61.92	8.23	11.70	H
	9231.00	-53.34	-40	-13.34	-80.45	-57.12	8.12	11.90	H
	4615.50	-60.40	-40	-20.40	-79.89	-67.46	5.64	12.70	V
	6923.25	-58.55	-40	-18.55	-81.17	-62.02	8.23	11.70	V
	9231.00	-54.09	-40	-14.09	-80.43	-57.87	8.12	11.90	V
Highest	4620.50	-61.83	-40	-21.83	-80.76	-68.89	5.64	12.70	H
	6930.75	-58.82	-40	-18.82	-81.01	-62.29	8.23	11.70	H
	9241.00	-53.49	-40	-13.49	-80.62	-57.27	8.12	11.90	H
	4620.50	-61.18	-40	-21.18	-80.67	-68.24	5.64	12.70	V
	6930.75	-58.45	-40	-18.45	-81.17	-61.92	8.23	11.70	V
	9241.00	-54.10	-40	-14.10	-80.48	-57.88	8.12	11.90	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

LTE Band 30 / 10MHz / QPSK / RB Size 1 Offset 0									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	4611.18	-60.49	-40	-20.49	-79.46	-67.55	5.64	12.70	H
	6916.77	-58.32	-40	-18.32	-80.39	-61.79	8.23	11.70	H
	9222.00	-53.71	-40	-13.71	-80.79	-57.49	8.12	11.90	H
	4611.18	-59.90	-40	-19.90	-79.43	-66.96	5.64	12.70	V
	6916.77	-57.81	-40	-17.81	-80.43	-61.28	8.23	11.70	V
	9222.00	-54.38	-40	-14.38	-80.69	-58.16	8.12	11.90	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

<Bottom Antenna>

LTE Band 30 / 5MHz / QPSK / RB Size 1 Offset 0									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	4610.68	-58.72	-40	-18.72	-77.69	-65.78	5.64	12.70	H
	6916.02	-56.34	-40	-16.34	-78.41	-59.81	8.23	11.70	H
	9221.36	-51.17	-40	-11.17	-78.25	-54.95	8.12	11.90	H
	4610.68	-58.10	-40	-18.10	-77.63	-65.16	5.64	12.70	V
	6916.02	-55.86	-40	-15.86	-78.48	-59.33	8.23	11.70	V
	9221.36	-52.30	-40	-12.30	-78.61	-56.08	8.12	11.90	V
Middle	4615.68	-57.34	-40	-17.34	-76.27	-64.40	5.64	12.70	H
	6923.52	-54.40	-40	-14.40	-76.47	-57.87	8.23	11.70	H
	9231.36	-51.31	-40	-11.31	-78.42	-55.09	8.12	11.90	H
	4615.68	-56.92	-40	-16.92	-76.41	-63.98	5.64	12.70	V
	6923.52	-55.49	-40	-15.49	-78.11	-58.96	8.23	11.70	V
	9231.36	-51.81	-40	-11.81	-78.15	-55.59	8.12	11.90	V
Highest	4620.68	-58.42	-40	-18.42	-77.35	-65.48	5.64	12.70	H
	6931.02	-55.59	-40	-15.59	-77.78	-59.06	8.23	11.70	H
	9241.36	-51.04	-40	-11.04	-78.17	-54.82	8.12	11.90	H
	4620.68	-57.18	-40	-17.18	-76.67	-64.24	5.64	12.70	V
	6931.02	-55.45	-40	-15.45	-78.17	-58.92	8.23	11.70	V
	9241.36	-51.83	-40	-11.83	-78.21	-55.61	8.12	11.90	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

LTE Band 30 / 10MHz / QPSK / RB Size 1 Offset 0									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	4611.18	-57.68	-40	-17.68	-76.65	-64.74	5.64	12.70	H
	6916.77	-51.46	-40	-11.46	-73.53	-54.93	8.23	11.70	H
	9222.36	-51.17	-40	-11.17	-78.25	-54.95	8.12	11.90	H
	4611.18	-57.79	-40	-17.79	-77.32	-64.85	5.64	12.70	V
	6916.77	-52.47	-40	-12.47	-75.09	-55.94	8.23	11.70	V
	9222.36	-52.10	-40	-12.10	-78.41	-55.88	8.12	11.90	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.