

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

**INTENTIONAL RADIATOR CERTIFICATION TO
FCC PART 22 SUBPART H, PART 24 SUBPART E and PART 27 SUBPART B, C &
SUBPART L AND PART 90S REQUIREMENT**

OF

Applicant: Advantech Co., Ltd
No. 1, Alley 20, Lane 26, Rueiguang Road, Neihu District,
Taipei 11491, Taiwan, R.O.C.

Product Name: Network Platform

Brand Name: Advantech

Model No.: FWA-AAL1010VC, FWA-AAL1010VCXXXXXXXXXXXXXXXXXXXX
(where "X" may be any alphanumeric character, "-" or blank)

Model Difference: Market different

FCC ID: M82-FWA-AAL1010

Report Number: E2/2018/10154

FCC Rule Part: 2, 22H & 24E & 27B, C & L & 90S

Issue Date: Mar. 02, 2018

Date of Test: Jan. 17, 2018 ~ Feb. 21, 2018

Date of EUT Received: Jan. 17, 2018

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Electronics & Communication Laboratory. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.26-2015 and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits.

The test results of this report relate only to the tested sample identified in this report.

Violetta Tang
Prepared By:

Violetta Tang / Clerk

Jim Chang
Approved By:

Jim Chang / Manager



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Revision History

Report Number	Revision	Description	Issue Date
E2/2018/10154	Rev.00	Initial creation of document	Mar. 02, 2018

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台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

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1. GENERAL PRODUCT INFORMATION

1.1. Product Description

General:

Product Name:	Network Platform	
Brand Name:	Advantech	
Model No.:	FWA-AAL1010VC, FWA-AAL1010VCXXXXXXXXXXXXXXXXXX (where "X" may be any alphanumeric character, "-" or blank)	
Model Difference:	Market different	
Product SW/HW version:	N/A / N/A	
Power Supply:	12V from AC/DC Adapter	
	Adapter:	Model No.: FSP060-DIBAN2, Supplier: FSP GROUP INC.
IMEI:	014582007221865	

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1.2. WCDMA / LTE: Cellular Phone Standards Frequency Range

Operating Frequency (MHz)	
WCDMA / HSPA+ Band II	1852.4 - 1907.6
WCDMA/HSPA+ Band IV	1712.4 - 1752.6
WCDMA / HSPA+ Band V	826.4 - 846.6

LTE Band	BW (MHz)	Operation Frequency (MHz)	LTE Band	BW (MHz)	Operation Frequency (MHz)	
2	1.4	1850.7 - 1909.3	25	1.4	1850.7 - 1914.3	
	3	1851.5 - 1908.5		3	1851.5 - 1913.5	
	5	1852.5 - 1907.5		5	1852.5 - 1912.5	
	10	1855.0 - 1905.0		10	1855.0 - 1910.0	
	15	1857.5 - 1902.5		15	1857.5 - 1907.5	
	20	1860.0 - 1900.0		20	1860.0 - 1905.0	
4	1.4	1710.7 - 1754.3	26	1.4	824.7 - 848.3	
	3	1711.5 - 1753.5		3	825.5 - 847.5	
	5	1712.5 - 1752.5		5	826.5 - 846.5	
	10	1715.0 - 1780.0		10	829.0 - 844.0	
	15	1717.5 - 1747.5		15	831.5 - 841.5	
	20	1720.0 - 1745.0				
5	1.4	824.7 - 848.3	26 Part90	1.4	814.7 - 823.3	
	3	825.5 - 847.5		3	815.5 - 822.5	
	5	826.5 - 846.5		5	816.5 - 821.5	
	10	829.0 - 844.0		10	819.0	
7	5	2502.5 - 2567.5	30	5	2307.5 - 2312.5	
	10	2505.0 - 2565.0		10	2310.0	
	12	5	2507.5 - 2562.5	41	5	2498.5 - 2687.5
		10	2510.0 - 2560.0		10	2501.0 - 2685.0
15			15		2503.5 - 2682.5	
13	1.4	699.7 - 715.3	41	20	2506.0 - 2680.0	
	3	700.5 - 714.5				
	5	701.5 - 713.5				
	10	704.0 - 711.0				
13	5	779.5 - 784.5				
	10	782				

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Type of Emission & Max ERP/EIRP Power Measurement Result:

	ERP / EIRP (dBm)		(W)	Type of Emission
WCDMA Band II	22.66	EIRP	0.185	4M15F9W
HSDPA Band II	21.15	EIRP	0.130	4M14F9W
HSUPA Band II	17.71	EIRP	0.059	4M13F9W
WCDMA Band IV	24.67	EIRP	0.293	4M13F9W
HSDPA Band IV	22.72	EIRP	0.187	4M13F9W
HSUPA Band IV	21.74	EIRP	0.149	4M13F9W
WCDMA Band V	21.20	ERP	0.132	4M15F9W
HSDPA Band V	20.78	ERP	0.120	4M14F9W
HSUPA Band V	20.84	ERP	0.121	4M14F9W

LTE Band	BW (MHz)	Modulation	ERP / EIRP (dBm)		(W)	Type of Emission
2	1.4	QPSK	22.79	EIRP	0.190	1M09G7D
	1.4	16QAM	22.69	EIRP	0.186	1M09D7W
	3	QPSK	21.01	EIRP	0.126	2M70G7D
	3	16QAM	20.98	EIRP	0.125	2M70D7W
	5	QPSK	22.30	EIRP	0.170	4M50G7D
	5	16QAM	22.56	EIRP	0.180	4M50D7W
	10	QPSK	22.27	EIRP	0.169	9M00G7D
	10	16QAM	22.09	EIRP	0.162	8M97D7W
	15	QPSK	21.85	EIRP	0.153	13M5G7D
	15	16QAM	21.15	EIRP	0.130	13M5D7W
	20	QPSK	20.69	EIRP	0.117	18M0G7D
	20	16QAM	20.86	EIRP	0.122	18M0D7W

LTE Band	BW (MHz)	Modulation	ERP / EIRP (dBm)		(W)	Type of Emission
4	1.4	QPSK	18.14	EIRP	0.065	1M09G7D
	1.4	16QAM	18.53	EIRP	0.071	1M10D7W
	3	QPSK	19.35	EIRP	0.086	2M70G7D
	3	16QAM	21.00	EIRP	0.126	2M70D7W
	5	QPSK	20.30	EIRP	0.107	4M50G7D
	5	16QAM	21.67	EIRP	0.147	4M50D7W
	10	QPSK	19.29	EIRP	0.085	8M99G7D
	10	16QAM	20.72	EIRP	0.118	8M97D7W
	15	QPSK	19.05	EIRP	0.080	13M5G7D
	15	16QAM	20.08	EIRP	0.102	13M5D7W
	20	QPSK	18.03	EIRP	0.064	18M0G7D
	20	16QAM	18.84	EIRP	0.077	18M0D7W

LTE Band	BW (MHz)	Modulation	ERP / EIRP (dBm)		(W)	Type of Emission
5	1.4	QPSK	23.57	ERP	0.228	1M09G7D
	1.4	16QAM	23.50	ERP	0.224	1M09D7W
	3	QPSK	22.96	ERP	0.198	2M70G7D
	3	16QAM	24.55	ERP	0.285	2M70D7W
	5	QPSK	24.11	ERP	0.258	4M50G7D
	5	16QAM	24.17	ERP	0.261	4M50D7W
	10	QPSK	22.32	ERP	0.171	9M01G7D
	10	16QAM	22.26	ERP	0.168	8M97D7W

LTE Band	BW (MHz)	Modulation	ERP / EIRP (dBm)		(W)	Type of Emission
7	5	QPSK	24.01	ERP	0.252	4M50G7D
	5	16QAM	24.11	ERP	0.258	4M50D7W
	10	QPSK	23.59	ERP	0.229	9M01G7D
	10	16QAM	23.74	ERP	0.237	8M96D7W
	15	QPSK	23.87	ERP	0.244	13M5G7D
	15	16QAM	23.95	ERP	0.248	13M5D7W
	20	QPSK	23.81	ERP	0.240	18M0G7D
	20	16QAM	22.94	ERP	0.197	17M9D7W

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LTE Band	BW (MHz)	Modulation	ERP / EIRP (dBm)		(W)	Type of Emission
12	1.4	QPSK	25.49	ERP	0.354	1M09G7D
	1.4	16QAM	25.48	ERP	0.353	1M09D7W
	3	QPSK	24.56	ERP	0.286	2M70G7D
	3	16QAM	24.53	ERP	0.284	2M70D7W
	5	QPSK	24.59	ERP	0.288	4M50G7D
	5	16QAM	24.60	ERP	0.288	4M51D7W
	10	QPSK	23.40	ERP	0.219	9M01G7D
	10	16QAM	24.32	ERP	0.270	8M98D7W
13	5	QPSK	25.60	ERP	0.363	4M50G7D
	5	16QAM	25.73	ERP	0.374	4M50D7W
	10	QPSK	25.05	ERP	0.320	8M98G7D
	10	16QAM	25.36	ERP	0.344	8M95D7W

LTE Band	BW (MHz)	Modulation	ERP / EIRP (dBm)		(W)	Type of Emission
25	1.4	QPSK	24.50	EIRP	0.282	1M10G7D
	1.4	16QAM	24.22	EIRP	0.264	1M10D7W
	3	QPSK	23.99	EIRP	0.251	2M70G7D
	3	16QAM	24.19	EIRP	0.262	2M70D7W
	5	QPSK	23.70	ERP	0.234	4M50G7D
	5	16QAM	23.80	ERP	0.240	4M50D7W
	10	QPSK	23.82	ERP	0.241	9M02G7D
	10	16QAM	23.87	ERP	0.244	9M00D7W
	15	QPSK	23.61	ERP	0.230	13M5G7D
	15	16QAM	23.94	ERP	0.248	13M5D7W
	20	QPSK	23.10	ERP	0.204	18M0G7D
	20	16QAM	24.04	ERP	0.254	18M0D7W

LTE Band	BW (MHz)	Modulation	ERP / EIRP (dBm)		(W)	Type of Emission
26	1.4	QPSK	25.19	ERP	0.330	1M10G7D
	1.4	16QAM	25.17	ERP	0.329	1M09D7W
	3	QPSK	25.29	ERP	0.338	2M70G7D
	3	16QAM	25.33	ERP	0.341	2M70D7W
	5	QPSK	24.55	ERP	0.285	4M50G7D
	5	16QAM	24.63	ERP	0.290	4M50D7W
	10	QPSK	24.64	ERP	0.291	9M01G7D
	10	16QAM	24.63	ERP	0.290	8M96D7W
	15	QPSK	24.88	ERP	0.308	13M5G7D
	15	16QAM	24.87	ERP	0.307	13M5D7W

LTE Band	BW (MHz)	Modulation	ERP / EIRP (dBm)		(W)	Type of Emission
26 Part90	1.4	QPSK	26.04	ERP	0.402	1M09G7D
	1.4	16QAM	26.01	ERP	0.399	1M09D7W
	3	QPSK	25.25	ERP	0.335	2M70G7D
	3	16QAM	25.12	ERP	0.325	2M70D7W
	5	QPSK	25.30	ERP	0.339	4M50G7D
	5	16QAM	25.19	ERP	0.330	4M50D7W
	10	QPSK	25.30	ERP	0.339	8M99G7D
	10	16QAM	25.29	ERP	0.338	8M96D7W

LTE Band	BW (MHz)	Modulation	ERP / EIRP (dBm)		(W)	Type of Emission
30	5	QPSK	26.48	EIRP	0.445	4M49G7D
	5	16QAM	27.34	EIRP	0.542	4M49D7W
	10	QPSK	26.70	EIRP	0.468	8M95G7D
	10	16QAM	26.36	EIRP	0.433	8M95D7W

LTE Band	BW (MHz)	Modulation	ERP / EIRP (dBm)		(W)	Type of Emission
41	5	QPSK	27.77	EIRP	0.598	4M52G7D
	5	16QAM	27.17	EIRP	0.521	4M50D7W
	10	QPSK	27.19	EIRP	0.524	8M98G7D
	10	16QAM	27.29	EIRP	0.536	8M97D7W
	15	QPSK	27.12	EIRP	0.515	13M5G7D
	15	16QAM	27.19	EIRP	0.524	13M5D7W
	20	QPSK	27.43	EIRP	0.553	18M0G7D
	20	16QAM	27.47	EIRP	0.558	18M0D7W

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1.3. Test Methodology of Applied Standards

CC 47 CFR Part 2, 22, 24, 27, Part 90S.

ANSI C63.26-2015

KDB971168 D01 Power Meas license Digital System v03

KDB941225 D01 SAR test for 3G devices v03r01 (SAR Measurement Procedures for 3G Devices, WCDMA / HSPA) was used for EUT and Base station setting.

TS 151 010-1 is used to set, and measure the output power.

Note: All test items have been performed and record as per the above standards.

1.4. Test Facility

SGS Taiwan Ltd. Electronics & Communication Laboratory No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333 code 0513)

FCC Registration Numbers are: 735305 / TW0002

1.5. Special Accessories

No special accessories were used during testing.

1.6. Equipment Modifications

There were no modifications incorporated into the EUT.

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2. SYSTEM TEST CONFIGURATION

2.1. EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.2. EUT Exercise

The EUT (Transmitter) was operated in the continuous transmission mode employed with the simulator of the Base Station that fixates at test default channels to fix the Tx frequency which was for the purpose of the measurements.

2.3. Test Procedure

2.3.1 Conducted Measurement at Antenna Port

According to measurement procured ANSI C63.26-2015, the EUT is placed on a turn table which is 0.8 m above ground plane. A low loss of RF cable was used to connect the antenna port of EUT to measurement equipment.

2.3.2 Radiated Emissions (ERP/EIRP)

According to measurement procured ANSI C63.26-2015, The EUT is a placed on as turn table, for emission measurements below 1 GHz is 0.8 m above ground plane, for emission measurements above 1 GHz, the table height shall be 1.5 m. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both Horizontal and Vertical. In order to find out the max. emission, the relative positions of this hand-held transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made “while keeping the antenna in the ‘cone of radiation’ from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response.” is still within the 3dB illumination BW of the measurement antenna according to the requirements in Section 8 and 13.

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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 attenuation factor between EUT conducted port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly EUT RF output level.

Note:

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Following shows an offset computation in physical test.

	RF cable loss (dB)	Attenuation factor(dB)	offset(dB)
Low Band (Below 1GHz)	3.6	20	23.6
High Band (Above 1 GHz)	3.9	20	23.9

2.5. Final Amplifier Voltage and Current Information:

Test Mode	DC voltage (V)	DC current (mA)
HSUPA B2	12	0.746
WCDMA B4		0.729
WCDMA B5		0.761
LTE Band 2		1.451
LTE Band 4		1.586
LTE Band 5		1.424
LTE Band 7		1.562
LTE Band 12		1.394
LTE Band 13		1.447
LTE Band 25		1.600
LTE Band 26		1.409
LTE Band 26 (Part 90S)		1.421
LTE Band 30		1.552
LTE Band 41		1.558

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2.6. Configuration of Tested System

Fig. 2-1 Configuration of Tested System (Fixed Channel-Conducted)

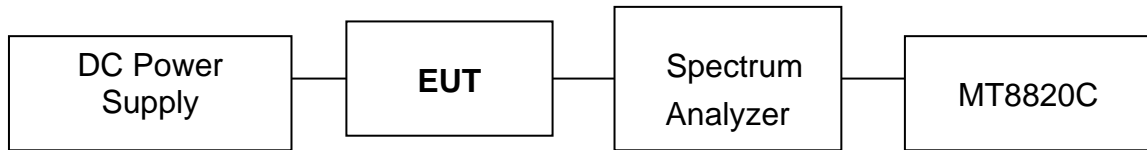
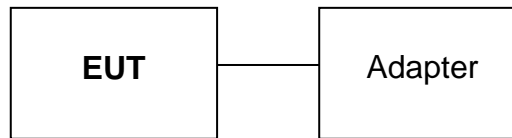


Fig. 2-2 Configuration of Tested System (Fixed Channel-Radiated)



Remote Side

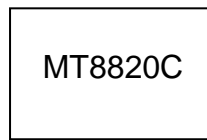


Table 2-1 Equipment Used in

Item	Equipment	Mfr/Brand	Model/ Type No.	Series No.	Data Cable	Power Cord
1.	Universal Radio Communication Tester	Anritsu	MT8820C	6200307563	shielded	Un-shielded

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3. SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§2.1046(a)	RF Power Output	Compliant
§2.1046(a) §22.913(a)(5) §24.232(c) §27.50(c)(10) §27.50(d)(4) §27.50(h)(2) §90.635	ERP/ EIRP measurement	Compliant
§2.1049(h)	99% & 26dB Occupied Bandwidth	Compliant
§2.1051 §22.917(a) §24.238(a) §27.53(g) §27.50(c)(5) §27.53(h) §27.53(m)(4)(6) §90.691	Out of Band Emissions at Antenna Terminals and Band Edge / Emission mask requirements	Compliant
§2.1053 §22.917(a) §24.238(a) §27.53(c)(2),(4) §27.50(c)(5) §27.53(f) §27.53(g) §27.53(h) §27.53(m)(4) §90.691(a)(1)(2)	Field Strength of Spurious Radiation	Compliant
§24.232(d) §27.53(d) (5) §27.50(i) (B)	Peak to Average Ratio	Compliant
§27.53(f)	Spurious emission in 1559 -1610MHz Band	Compliant
§2.1055(a)(1) §22.355 §24.235 §27.54 §90.213	Frequency Stability	Compliant

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4. DESCRIPTION OF TEST MODES

4.1. The Worst Test Modes and Channel Details

1. The EUT has been tested under operating condition.
2. Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, X(E1)Y(E2)Z(H) axis and antenna ports. The worst case was found as listed below. Following channel(s) was (were) selected for the final test as listed below:

BAND	ERP/EIRP	RADIATED EMISSION
WCDMA/HSPA Band II	H-plan	H-plan
WCDMA/HSPA Band IV	H-plan	H-plan
WCDMA/HSPA Band V	H-plan	H-plan
LTE Band 2	H-plan	H-plan
LTE Band 4	H-plan	H-plan
LTE Band 5	H-plan	H-plan
LTE Band 7	H-plan	H-plan
LTE Band 12	H-plan	H-plan
LTE Band 13	H-plan	H-plan
LTE Band 25	H-plan	H-plan
LTE Band 26	H-plan	H-plan
LTE Band 26 (Part 90S)	H-plan	H-plan
LTE Band 30	H-plan	H-plan
LTE Band 41	H-plan	H-plan

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WCDMA/HSPA MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	MODE
ERP	4132 to 4233	4132, 4183, 4233	WCDMA/HSPA Band V
EIRP	9262 to 9538 1312 to 1513	9262, 9400, 9583 1312, 1413, 1513	WCDMA/HSPA Band II WCDMA/HSPA Band IV
FREQUENCY STABILITY	4132 to 4233 1312 to 1513 9262 to 9538	4183 1413 9400	WCDMA Band II WCDMA Band IV WCDMA Band V
OCCUPIED BANDWIDTH	4132 to 4233 1312 to 1513 9262 to 9538	4132, 4183, 4233 1312, 1413, 1513 9262, 9400, 9583	WCDMA/HSPA Band II WCDMA/HSPA Band IV WCDMA/HSPA Band V
PEAK TO AVERAGE RATIO	4132 to 4233 1312 to 1513 9262 to 9538	4132, 4183, 4233 1312, 1413, 1513 9262, 9400, 9583	WCDMA/HSPA Band II WCDMA/HSPA Band IV WCDMA/HSPA Band V
BAND EDGE	4132 to 4233 1312 to 1513 9262 to 9538	4132, 4233 1312, 1513 9262, 9583	WCDMA Band II WCDMA Band IV WCDMA Band V
CONDUCTED EMISSION	4132 to 4233 1312 to 1513 9262 to 9538	4132, 4183, 4233 1312, 1413, 1513 9262, 9400, 9583	WCDMA Band II WCDMA Band IV WCDMA Band V
RADIATED EMISSION	4132 to 4233 1312 to 1513 9262 to 9538	4132, 4183, 4233 1312, 1413, 1513 9262, 9400, 9583	WCDMA Band II WCDMA Band IV WCDMA Band V

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LTE Band 2 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
EIRP	18607 to 19193	18607, 18900, 19193	1.4MHz	QPSK, 16QAM	1 RB/ 0,5 RB Offest
	18615 to 19185	18615, 18900, 19185	3MHz	QPSK, 16QAM	1 RB/ 0,14 RB Offest
	18625 to 19175	18625, 18900, 19175	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offest
	18650 to 19150	18650, 18900, 19150	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offest
	18675 to 19125	18675, 18900, 19125	15MHz	QPSK, 16QAM	1 RB/ 0,74 RB Offest
	18700 to 19100	18700, 18900, 19100	20MHz	QPSK, 16QAM	1 RB/ 0,99 RB Offest
FREQUENCY STABILITY	18650 to 19150	18900	10MHz	QPSK	Full RB
OCCUPIED BAND-WIDTH	18607 to 19193	18607, 18900, 19193	1.4MHz	QPSK, 16QAM	Full RB
	18615 to 19185	18615, 18900, 19185	3MHz	QPSK, 16QAM	Full RB
	18625 to 19175	18625, 18900, 19175	5MHz	QPSK, 16QAM	Full RB
	18650 to 19150	18650, 18900, 19150	10MHz	QPSK, 16QAM	Full RB
	18675 to 19125	18675, 18900, 19125	15MHz	QPSK, 16QAM	Full RB
	18700 to 19100	18700, 18900, 19100	20MHz	QPSK, 16QAM	Full RB
PEAK TO AVERAGE RATIO	18607 to 19193	18607, 18900, 19193	1.4MHz	16QAM	Full RB
	18615 to 19185	18615, 18900, 19185	3MHz	16QAM	Full RB
	18625 to 19175	18625, 18900, 19175	5MHz	16QAM	Full RB
	18650 to 19150	18650, 18900, 19150	10MHz	16QAM	Full RB
	18675 to 19125	18675, 18900, 19125	15MHz	16QAM	Full RB
	18700 to 19100	18700, 18900, 19100	20MHz	16QAM	Full RB
BAND EDGE	18607 to 19193	18607, 19193	1.4MHz	QPSK	1 RB/ 0,5 RB Offes Full RB
	18615 to 19185	18615, 19185	3MHz	QPSK	1 RB/ 0,14 RB Offest Full RB
	18625 to 19175	18625, 19175	5MHz	QPSK	1 RB/ 0,24 RB Offest Full RB
	18650 to 19150	18650, 19150	10MHz	QPSK	1 RB/ 0,49 RB Offest Full RB
	18675 to 19125	18675, 19125	15MHz	QPSK	1 RB/ 0,74 RB Offest Full RB
	18700 to 19100	18700, 19100	20MHz	QPSK	1 RB/ 0,99 RB Offest Full RB
CONDCUDED EMISSION	18607 to 19193	18607, 18900, 19193	1.4MHz	QPSK	1 RB, 0 RB Offest
	18615 to 19185	18615, 18900, 19185	3MHz	QPSK	1 RB, 0 RB Offest
	18625 to 19175	18625, 18900, 19175	5MHz	QPSK	1 RB, 0 RB Offest
	18650 to 19150	18650, 18900, 19150	10MHz	QPSK	1 RB, 0 RB Offest
	18675 to 19125	18675, 18900, 19125	15MHz	QPSK	1 RB, 0 RB Offest
	18700 to 19100	18700, 18900, 19100	20MHz	QPSK	1 RB, 0 RB Offest
RADIATED EMISSION	18607 to 19193	18607, 18900, 19193	1.4MHz	QPSK	1 RB, 0 RB Offest

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LTE Band 4 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
EIRP	19957 to 19393	19957, 20175, 19393	1.4MHz	QPSK, 16QAM	1 RB/ 0,5 RB Offest
	19965 to 22385	19965, 20175, 22385	3MHz	QPSK, 16QAM	1 RB/ 0,14 RB Offest
	19975 to 20375	19975, 20175, 20375	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offest
	20000 to 20350	20000, 20175, 20350	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offest
	20025 to 20325	20025, 20175, 20325	15MHz	QPSK, 16QAM	1 RB/ 0,74 RB Offest
	20050 to 20300	20050, 20175, 20300	20MHz	QPSK, 16QAM	1 RB/ 0,99 RB Offest
FREQUENCY STABILITY	20000 to 20350	20175	10MHz	QPSK	Full RB
OCCUPIED BAND-WIDTH	19957 to 19393	19957, 20175, 19393	1.4MHz	QPSK, 16QAM	Full RB
	19965 to 22385	19965, 20175, 22385	3MHz	QPSK, 16QAM	Full RB
	19975 to 20375	19975, 20175, 20375	5MHz	QPSK, 16QAM	Full RB
	20000 to 20350	20000, 20175, 20350	10MHz	QPSK, 16QAM	Full RB
	20025 to 20325	20025, 20175, 20325	15MHz	QPSK, 16QAM	Full RB
	20050 to 20300	20050, 20175, 20300	20MHz	QPSK, 16QAM	Full RB
PEAK TO AVERAGE RATIO	19957 to 19393	19957, 20175, 19393	1.4MHz	16QAM	Full RB
	19965 to 22385	19965, 20175, 22385	3MHz	16QAM	Full RB
	19975 to 20375	19975, 20175, 20375	5MHz	16QAM	Full RB
	20000 to 20350	20000, 20175, 20350	10MHz	16QAM	Full RB
	20025 to 20325	20025, 20175, 20325	15MHz	16QAM	Full RB
	20050 to 20300	20050, 20175, 20300	20MHz	16QAM	Full RB
BAND EDGE	19957 to 19393	19957, 19393	1.4MHz	QPSK	1 RB/ 0,5 RB Offes Full RB
	19965 to 22385	19965, 22385	3MHz	QPSK	1 RB/ 0,14 RB Offest Full RB
	19975 to 20375	19975, 20375	5MHz	QPSK	1 RB/ 0,24 RB Offest Full RB
	20000 to 20350	20000, 20350	10MHz	QPSK	1 RB/ 0,49 RB Offest Full RB
	20025 to 20325	20025, 20325	15MHz	QPSK	1 RB/ 0,74 RB Offest Full RB
	20050 to 20300	20050, 20300	20MHz	QPSK	1 RB/ 0,99 RB Offest Full RB
CONDCUETED EMISSION	19957 to 19393	19957, 20175, 19393	1.4MHz	QPSK	1 RB, 0 RB Offest
	19965 to 22385	19965, 20175, 22385	3MHz	QPSK	1 RB, 0 RB Offest
	19975 to 20375	19975, 20175, 20375	5MHz	QPSK	1 RB, 0 RB Offest
	20000 to 20350	20000, 20175, 20350	10MHz	QPSK	1 RB, 0 RB Offest
	20025 to 20325	20025, 20175, 20325	15MHz	QPSK	1 RB, 0 RB Offest
	20050 to 20300	20050, 20175, 20300	20MHz	QPSK	1 RB, 0 RB Offest
RADIATED EMISSION	19975 to 20375	19975, 20175, 20375	5MHz	16QAM	1 RB, 0 RB Offest

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f (886-2) 2298-0488

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LTE Band 5 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
ERP	20470 to 20643	20470, 20525, 20643	1.4MHz	QPSK, 16QAM	1 RB/ 0,5 RB Offest
	20415 to 20635	20415, 20525, 20635	3MHz	QPSK, 16QAM	1 RB/ 0,14 RB Offest
	20425 to 20625	20425, 20525, 20625	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offest
	20450 to 20600	20450, 20525, 20600	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offest
FREQUENCY STABILITY	20450 to 20600	20525	10MHz	QPSK	Full RB
OCCUPIED BAND-WIDTH	20470 to 20643	20470, 20525, 20643	1.4MHz	QPSK, 16QAM	Full RB
	20415 to 20635	20415, 20525, 20635	3MHz	QPSK, 16QAM	Full RB
	20425 to 20625	20425, 20525, 20625	5MHz	QPSK, 16QAM	Full RB
	20450 to 20600	20450, 20525, 20600	10MHz	QPSK, 16QAM	Full RB
PEAK TO AVERAGE RATIO	20470 to 20643	20470, 20525, 20643	1.4MHz	16QAM	Full RB
	20415 to 20635	20415, 20525, 20635	3MHz	16QAM	Full RB
	20425 to 20625	20425, 20525, 20625	5MHz	16QAM	Full RB
	20450 to 20600	20450, 20525, 20600	10MHz	16QAM	Full RB
BAND EDGE	20470 to 20643	20470, 20643	1.4MHz	QPSK	1 RB/ 0,5 RB Offes Full RB
	20415 to 20635	20415, 20635	3MHz	QPSK	1 RB/ 0,14 RB Offest Full RB
	20425 to 20625	20425, 20625	5MHz	QPSK	1 RB/ 0,24 RB Offest Full RB
	20450 to 20600	20450, 20600	10MHz	QPSK	1 RB/ 0,49 RB Offest Full RB
CONDCUDED EMISSION	20470 to 20643	20470, 20525, 20643	1.4MHz	QPSK	1 RB, 0 RB Offest
	20415 to 20635	20415, 20525, 20635	3MHz	QPSK	1 RB, 0 RB Offest
	20425 to 20625	20425, 20525, 20625	5MHz	QPSK	1 RB, 0 RB Offest
	20450 to 20600	20450, 20525, 20600	10MHz	QPSK	1 RB, 0 RB Offest
RADIATED EMISSION	20415 to 20635	20415, 20525, 20635	3MHz	16QAM	1 RB, 0 RB Offest

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f (886-2) 2298-0488

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LTE Band 7 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
EIRP	20775 to 21425	20775, 21100, 21425	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offest
	20800 to 21400	20800, 21100, 21400	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offest
	20850 to 21375	20850, 21100, 21375	15MHz	QPSK, 16QAM	1 RB/ 0,74 RB Offest
	20850 to 21350	20850, 21100, 21350	20MHz	QPSK, 16QAM	1 RB/ 0,99 RB Offest
FREQUENCY STABILITY	20800 to 21400	21100	10MHz	QPSK	Full RB
OCCUPIED BAND-WIDTH	20775 to 21425	20775, 21100, 21425	5MHz	QPSK, 16QAM	Full RB
	20800 to 21400	20800, 21100, 21400	10MHz	QPSK, 16QAM	Full RB
	20850 to 21375	20850, 21100, 21375	15MHz	QPSK, 16QAM	Full RB
	20850 to 21350	20850, 21100, 21350	20MHz	QPSK, 16QAM	Full RB
PEAK TO AVERAGE RATIO	20775 to 21425	20775, 21100, 21425	5MHz	16QAM	Full RB
	20800 to 21400	20800, 21100, 21400	10MHz	16QAM	Full RB
	20850 to 21375	20850, 21100, 21375	15MHz	16QAM	Full RB
	20850 to 21350	20850, 21100, 21350	20MHz	16QAM	Full RB
BAND EDGE	20775 to 21425	20775, 21100, 21425	5MHz	QPSK	1 RB/ 0,24 RB Offest Full RB
	20800 to 21400	20800, 21100, 21400	10MHz	QPSK	1 RB/ 0,49 RB Offest Full RB
	20850 to 21375	20850, 21100, 21375	15MHz	QPSK	1 RB/ 0,74 RB Offest Full RB
	20850 to 21350	20850, 21100, 21350	20MHz	QPSK	1 RB/ 0,99 RB Offest Full RB
CONDCUDED EMISSION	20775 to 21425	20775, 21100, 21425	5MHz	QPSK	1 RB, 0 RB Offest
	20800 to 21400	20800, 21100, 21400	10MHz	QPSK	1 RB, 0 RB Offest
	20850 to 21375	20850, 21100, 21375	15MHz	QPSK	1 RB, 0 RB Offest
	20850 to 21350	20850, 21100, 21350	20MHz	QPSK	1 RB, 0 RB Offest
RADIATED EMISSION	20775 to 21425	20775, 21100, 21425	5MHz	16QAM	1 RB, 24 RB Offest
EMISSION MASK	20775 to 21425	20775, 21100, 21425	5MHz	QPSK	1 RB/ 0,24 RB Offest 25 RB/ 0 Offset
	20800 to 21400	20800, 21100, 21400	10MHz	QPSK	1 RB/ 0,49 RB Offest 50 RB/ 0 Offset
	20850 to 21375	20850, 21100, 21375	15MHz	QPSK	1 RB/ 0,74 RB Offest 75 RB/ 0 Offset
	20850 to 21350	20850, 21100, 21350	20MHz	QPSK	1 RB/ 0,99 RB Offest 100 RB/ 0 Offset

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LTE Band 12 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
ERP	23017 to 23173	23017, 23095, 23173	1.4MHz	QPSK, 16QAM	1 RB/ 0,5 RB Offest
	23025 to 23165	23025, 23095, 23165	3MHz	QPSK, 16QAM	1 RB/ 0,14 RB Offest
	23035 to 23155	23035, 23095, 23155	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offest
	23060 to 23130	23060, 23095, 23130	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offest
FREQUENCY STABILITY	23060 to 23130	23095	10MHz	QPSK	Full RB
OCCUPIED BANDWIDTH	23017 to 23173	23017, 23095, 23173	1.4MHz	QPSK, 16QAM	Full RB
	23025 to 23165	23025, 23095, 23165	3MHz	QPSK, 16QAM	Full RB
	23035 to 23155	23035, 23095, 23155	5MHz	QPSK, 16QAM	Full RB
	23060 to 23130	23060, 23095, 23130	10MHz	QPSK, 16QAM	Full RB
PEAK TO AVERAGE RATIO	23017 to 23173	23017, 23095, 23173	1.4MHz	16QAM	Full RB
	23025 to 23165	23025, 23095, 23165	3MHz	16QAM	Full RB
	23035 to 23155	23035, 23095, 23155	5MHz	16QAM	Full RB
	23060 to 23130	23060, 23095, 23130	10MHz	16QAM	Full RB
BAND EDGE	23017 to 23173	23017, 23095, 23173	1.4MHz	QPSK	1 RB/ 0,5 RB Offes Full RB
	23025 to 23165	23025, 23095, 23165	3MHz	QPSK	1 RB/ 0,14 RB Offest Full RB
	23035 to 23155	23035, 23095, 23155	5MHz	QPSK	1 RB/ 0,24 RB Offest Full RB
	23060 to 23130	23060, 23095, 23130	10MHz	QPSK	1 RB/ 0,49 RB Offest Full RB
CONDCUDED EMISSION	23017 to 23173	23017, 23095, 23173	1.4MHz	QPSK	1 RB, 0 RB Offest
	23025 to 23165	23025, 23095, 23165	3MHz	QPSK	1 RB, 0 RB Offest
	23035 to 23155	23035, 23095, 23155	5MHz	QPSK	1 RB, 0 RB Offest
	23060 to 23130	23060, 23095, 23130	10MHz	QPSK	1 RB, 0 RB Offest
RADIATED EMISSION	23017 to 23173	23017, 23095, 23173	1.4MHz	QPSK	1 RB, 5 RB Offest

LTE Band 13 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
ERP	23205 to 23255	23205, 23230, 23255	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offest
	23230	23230	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offest
FREQUENCY STABILITY	23230	23230	10MHz	QPSK	Full RB
OCCUPIED BANDWIDTH	23205 to 23255	23205, 23230, 23255	5MHz	QPSK, 16QAM	Full RB
	23230	23230	10MHz	QPSK, 16QAM	Full RB
PEAK TO AVERAGE RATIO	23205 to 23255	23205, 23230, 23255	5MHz	16QAM	Full RB
	23230	23230	10MHz	16QAM	Full RB
BAND EDGE	23205 to 23255	23205, 23255	5MHz	QPSK	1 RB/ 0,24 RB Offest Full RB
	23230	23230	10MHz	QPSK	1 RB/ 0,49 RB Offest Full RB
CONDCUDED EMISSION	23205 to 23255	23205, 23230, 23255	5MHz	QPSK	1 RB, 0 RB Offest
	23230	23230	10MHz	QPSK	1 RB, 0 RB Offest
RADIATED EMISSION	23205 to 23255	23205, 23230, 23255	5MHz	16QAM	1 RB/ 0 RB Offest

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LTE Band 25 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
EIRP	27047 to 26683	27047, 26365, 26683	1.4MHz	QPSK, 16QAM	1 RB/ 0,5 RB Offset
	26055 to 26675	26055, 26365, 26675	3MHz	QPSK, 16QAM	1 RB/ 0,14 RB Offset
	26065 to 26665	26065, 26365, 26665	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offset
	26096 to 26640	26096, 26365, 26640	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offset
	26115 to 26615	26115, 26365, 26615	15MHz	QPSK, 16QAM	1 RB/ 0,74 RB Offset
	26140 to 26590	26140, 26365, 26590	20MHz	QPSK, 16QAM	1 RB/ 0,99 RB Offset
FREQUENCY STABILITY	26096 to 26640	26365	10MHz	QPSK	Full RB
OCCUPIED BAND-WIDTH	27047 to 26683	27047, 26365, 26683	1.4MHz	QPSK, 16QAM	Full RB
	26055 to 26675	26055, 26365, 26675	3MHz	QPSK, 16QAM	Full RB
	26065 to 26665	26065, 26365, 26665	5MHz	QPSK, 16QAM	Full RB
	26096 to 26640	26096, 26365, 26640	10MHz	QPSK, 16QAM	Full RB
	26115 to 26615	26115, 26365, 26615	15MHz	QPSK, 16QAM	Full RB
	26140 to 26590	26140, 26365, 26590	20MHz	QPSK, 16QAM	Full RB
PEAK TO AVERAGE RATIO	27047 to 26683	27047, 26365, 26683	1.4MHz	16QAM	Full RB
	26055 to 26675	26055, 26365, 26675	3MHz	16QAM	Full RB
	26065 to 26665	26065, 26365, 26665	5MHz	16QAM	Full RB
	26096 to 26640	26096, 26365, 26640	10MHz	16QAM	Full RB
	26115 to 26615	26115, 26365, 26615	15MHz	16QAM	Full RB
	26140 to 26590	26140, 26365, 26590	20MHz	16QAM	Full RB
BAND EDGE	27047 to 26683	27047, 26683	1.4MHz	QPSK	1 RB/ 0,5 RB Offset Full RB
	26055 to 26675	26055, 26675	3MHz	QPSK	1 RB/ 0,14 RB Offset Full RB
	26065 to 26665	26065, 26665	5MHz	QPSK	1 RB/ 0,24 RB Offset Full RB
	26096 to 26640	26096, 26640	10MHz	QPSK	1 RB/ 0,49 RB Offset Full RB
	26115 to 26615	26115, 26615	15MHz	QPSK	1 RB/ 0,74 RB Offset Full RB
	26140 to 26590	26140, 26590	20MHz	QPSK	1 RB/ 0,99 RB Offset Full RB
CONDCUDED EMISSION	27047 to 26683	27047, 26365, 26683	1.4MHz	QPSK	1 RB, 0 RB Offset
	26055 to 26675	26055, 26365, 26675	3MHz	QPSK	1 RB, 0 RB Offset
	26065 to 26665	26065, 26365, 26665	5MHz	QPSK	1 RB, 0 RB Offset
	26096 to 26640	26096, 26365, 26640	10MHz	QPSK	1 RB, 0 RB Offset
	26115 to 26615	26115, 26365, 26615	15MHz	QPSK	1 RB, 0 RB Offset
	26140 to 26590	26140, 26365, 26590	20MHz	QPSK	1 RB, 0 RB Offset
RADIATED EMISSION	27047 to 26683	27047, 26365, 26683	1.4MHz	QPSK	1 RB/ 5 RB Offset

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LTE Band 26 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
ERP	26797 to 27033	26797, 26915, 27033	1.4MHz	QPSK, 16QAM	1 RB/ 0,5 RB Offest
	26805 to 27025	26805, 26915, 27025	3MHz	QPSK, 16QAM	1 RB/ 0,14 RB Offest
	26815 to 27015	26815, 26915, 27015	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offest
	26840 to 26990	26840, 26915, 26990	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offest
	26865 to 26965	26865, 26915, 26965	15MHz	QPSK, 16QAM	1 RB/ 0,74 RB Offest
FREQUENCY STABILITY	26865 to 26965	26915	15MHz	QPSK	Full RB
OCCUPIED BAND-WIDTH	26797 to 27033	26797, 26915, 27033	1.4MHz	QPSK, 16QAM	Full RB
	26805 to 27025	26805, 26915, 27025	3MHz	QPSK, 16QAM	Full RB
	26815 to 27015	26815, 26915, 27015	5MHz	QPSK, 16QAM	Full RB
	26840 to 26990	26840, 26915, 26990	10MHz	QPSK, 16QAM	Full RB
	26865 to 26965	26865, 26915, 26965	15MHz	QPSK, 16QAM	Full RB
PEAK TO AVERAGE RATIO	26797 to 27033	26797, 26915, 27033	1.4MHz	16QAM	Full RB
	26805 to 27025	26805, 26915, 27025	3MHz	16QAM	Full RB
	26815 to 27015	26815, 26915, 27015	5MHz	16QAM	Full RB
	26840 to 26990	26840, 26915, 26990	10MHz	16QAM	Full RB
	26865 to 26965	26865, 26915, 26965	15MHz	16QAM	Full RB
BAND EDGE	26797 to 27033	26797, 26915, 27033	1.4MHz	QPSK	1 RB/ 0,5 RB Offes Full RB
	26805 to 27025	26805, 26915, 27025	3MHz	QPSK	1 RB/ 0,14 RB Offest Full RB
	26815 to 27015	26815, 26915, 27015	5MHz	QPSK	1 RB/ 0,24 RB Offest Full RB
	26840 to 26990	26840, 26915, 26990	10MHz	QPSK	1 RB/ 0,49 RB Offest Full RB
	26865 to 26965	26865, 26915, 26965	15MHz	QPSK	1 RB/ 0,74 RB Offest
CONDCUETED EMISSION	26797 to 27033	26797, 26915, 27033	1.4MHz	QPSK	1 RB, 0 RB Offest
	26805 to 27025	26805, 26915, 27025	3MHz	QPSK	1 RB, 0 RB Offest
	26815 to 27015	26815, 26915, 27015	5MHz	QPSK	1 RB, 0 RB Offest
	26840 to 26990	26840, 26915, 26990	10MHz	QPSK	1 RB, 0 RB Offest
	26865 to 26965	26865, 26915, 26965	15MHz	QPSK	1 RB, 0 RB Offest
RADIATED EMISSION	26805 to 27025	26805, 26915, 27025	3MHz	16QAM	1 RB, 14 RB Offest

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LTE Band 26 for 90S MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
ERP	26697 to 26783	26697, 26740, 26783	1.4MHz	QPSK, 16QAM	1 RB/ 0,5 RB Offest
	26705 to 26775	26705, 26740, 26775	3MHz	QPSK, 16QAM	1 RB/ 0,14 RB Offest
	26715 to 26765	26715, 26740, 26765	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offest
	26740	26740	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offest
FREQUENCY STABILITY	26697 to 26783	26740	1.4MHz	QPSK	Full RB
OCCUPIED BAND-WIDTH	26697 to 26783	26697, 26740, 26783	1.4MHz	QPSK, 16QAM	Full RB
	26705 to 26775	26705, 26740, 26775	3MHz	QPSK, 16QAM	Full RB
	26715 to 26765	26715, 26740, 26765	5MHz	QPSK, 16QAM	Full RB
	26740	26740	10MHz	QPSK, 16QAM	Full RB
PEAK TO AVERAGE RATIO	26697 to 26783	26697, 26740, 26783	1.4MHz	16QAM	Full RB
	26705 to 26775	26705, 26740, 26775	3MHz	16QAM	Full RB
	26715 to 26765	26715, 26740, 26765	5MHz	16QAM	Full RB
	26740	26740	10MHz	16QAM	Full RB
BAND EDGE	26697 to 26783	26697, 26740, 26783	1.4MHz	QPSK	1 RB/ 0,5 RB Offes Full RB
	26705 to 26775	26705, 26740, 26775	3MHz	QPSK	1 RB/ 0,14 RB Offest Full RB
	26715 to 26765	26715, 26740, 26765	5MHz	QPSK	1 RB/ 0,24 RB Offest Full RB
	26740	26740	10MHz	QPSK	1 RB/ 0,49 RB Offest Full RB
CONDCUETED EMISSION	26697 to 26783	26697, 26740, 26783	1.4MHz	QPSK	1 RB, 0 RB Offest
	26705 to 26775	26705, 26740, 26775	3MHz	QPSK	1 RB, 0 RB Offest
	26715 to 26765	26715, 26740, 26765	5MHz	QPSK	1 RB, 0 RB Offest
	26740	26740	10MHz	QPSK	1 RB, 0 RB Offest
RADIATED EMISSION	26697 to 26783	26697, 26740, 26783	1.4MHz	QPSK	1 RB, 5 RB Offest

LTE Band 30 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
ERP	27685 to 27735	27685, 27710, 27735	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offest
	27710	27710	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offest
FREQUENCY STABILITY	27710	27710	10MHz	QPSK	Full RB
OCCUPIED BAND-WIDTH	27685 to 27735	27685, 27710, 27735	5MHz	QPSK, 16QAM	Full RB
	27710	27710	10MHz	QPSK, 16QAM	Full RB
PEAK TO AVERAGE RATIO	27685 to 27735	27685, 27710, 27735	5MHz	16QAM	Full RB
	27710	27710	10MHz	16QAM	Full RB
BAND EDGE	27685 to 27735	27685, 27710, 27735	5MHz	QPSK	1 RB/ 0,24 RB Offest Full RB
	27710	27710	10MHz	QPSK	1 RB/ 0,49 RB Offest Full RB
CONDCUETED EMISSION	27685 to 27735	27685, 27710, 27735	5MHz	QPSK	1 RB, 0 RB Offest
	27710	27710	10MHz	QPSK	1 RB, 0 RB Offest
RADIATED EMISSION	27685 to 27735	27685, 27710, 27735	5MHz	16QAM	1 RB/ 0 RB Offest

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LTE Band 41 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
EIRP	39675 to 41565	39675, 40620, 41565	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offest
	39700 to 41540	39700, 40620, 41540	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offest
	39725 to 41515	39725, 40620, 41515	15MHz	QPSK, 16QAM	1 RB/ 0,74 RB Offest
	39750 to 41490	39750, 40620, 41490	20MHz	QPSK, 16QAM	1 RB/ 0,99 RB Offest
FREQUENCY STABILITY	39700 to 41540	39700, 40620, 41540	10MHz	QPSK	Full RB
OCCUPIED BAND-WIDTH	39675 to 41565	39675, 40620, 41565	5MHz	QPSK, 16QAM	Full RB
	39700 to 41540	39700, 40620, 41540	10MHz	QPSK, 16QAM	Full RB
	39725 to 41515	39725, 40620, 41515	15MHz	QPSK, 16QAM	Full RB
	39750 to 41490	39750, 40620, 41490	20MHz	QPSK, 16QAM	Full RB
PEAK TO AVERAGE RATIO	39675 to 41565	39675, 40620, 41565	5MHz	16QAM	Full RB
	39700 to 41540	39700, 40620, 41540	10MHz	16QAM	Full RB
	39725 to 41515	39725, 40620, 41515	15MHz	16QAM	Full RB
	39750 to 41490	39750, 40620, 41490	20MHz	16QAM	Full RB
BAND EDGE	39675 to 41565	39675, 41565	5MHz	QPSK	1 RB/ 0,24 RB Offest Full RB
	39700 to 41540	39700, 41540	10MHz	QPSK	1 RB/ 0,49 RB Offest Full RB
	39725 to 41515	39725, 41515	15MHz	QPSK	1 RB/ 0,74 RB Offest Full RB
	39750 to 41490	39750, 41490	20MHz	QPSK	1 RB/ 0,99 RB Offest Full RB
CONDCUDED EMIS-SION	39675 to 41565	39675, 40620, 41565	5MHz	QPSK	1 RB, 0 RB Offest
	39700 to 41540	39700, 40620, 41540	10MHz	QPSK	1 RB, 0 RB Offest
	39725 to 41515	39725, 40620, 41515	15MHz	QPSK	1 RB, 0 RB Offest
	39750 to 41490	39750, 40620, 41490	20MHz	QPSK	1 RB, 0 RB Offest
EMISSION MASK	39675 to 41565	39675, 40620, 41565	5MHz	QPSK	1 RB/ 0,24 RB Offest 25 RB/ 0 Offset
	39700 to 41540	39700, 40620, 41540	10MHz	QPSK	1 RB/ 0,49 RB Offest 50 RB/ 0 Offset
	39725 to 41515	39725, 40620, 41515	15MHz	QPSK	1 RB/ 0,74 RB Offest 75 RB/ 0 Offset
	39750 to 41490	39750, 40620, 41490	20MHz	QPSK	1 RB/ 0,99 RB Offest 100 RB/ 0 Offset
RADIATED EMISSION	39675 to 41565	39675, 40620, 41565	5MHz	QPSK	1 RB, 24 RB Offest

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5. MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
RF Power Output	+/- 1.10 dB
ERP/ EIRP measurement	Vertical Polarization = +/- 4.74dB Horizontal Polarization = +/- 4.62dB
99% Occupied Bandwidth	+/- 5.19 Hz
Out of Band Emissions at Antenna Terminals and Band Edge	+/- 0.70 dB
Peak to Average Ratio	+/- 0.70 dB
Frequency Stability vs. Temperature	+/- 5.19 Hz
Frequency Stability vs. Voltage	+/- 5.19 Hz
Temperature	+/- 0.65 °C
Humidity	+/- 4.6 %
DC / AC Power Source	DC= +/- 0.13%, AC= +/- 0.2%

Radiated Spurious Emission:

Measurement uncertainty (Polarization : Vertical)	9kHz – 30MHz: +/- 2.87 dB
	30MHz - 180MHz: +/- 3.37dB
	180MHz -417MHz: +/- 3.19dB
	0.417GHz-1GHz: +/- 3.19dB
	1GHz - 18GHz: +/- 4.04dB
	18GHz - 40GHz: +/- 4.04dB

Measurement uncertainty (Polarization : Horizontal)	9kHz – 30MHz: +/- 2.87 dB
	30MHz - 167MHz: +/- 4.22dB
	167MHz -500MHz: +/- 3.44dB
	0.5GHz-1GHz: +/- 3.39dB
	1GHz - 18GHz: +/- 4.08dB
	18GHz - 40GHz: +/- 4.08dB

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

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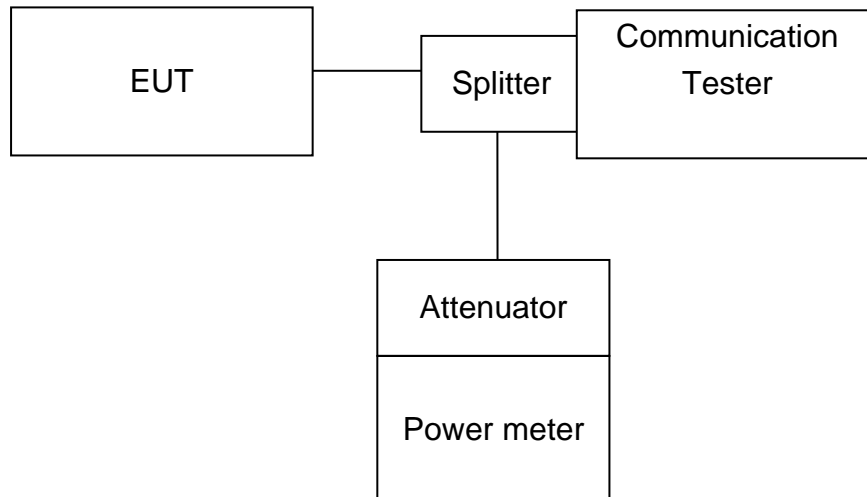
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6. RF CONDUCTED OUTPUT POWER MEASUREMENT

6.1. Standard Applicable

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.

6.2. Test Set-up



Note: Measurement setup for testing on Antenna connector

6.3. Measurement Procedure

The transmitter output was connected to a calibrated attenuator, the other end of which was connected to a power meter. Transmitter output was read off the power meter in dBm. The power output at the transmitter antenna port was determined by adding the value of the attenuator to the power meter reading. TS 151 010-1 is reference to conduct the test measurement of output power.

The Procedure of KDB941225 (SAR Measurement Procedures for 3G devices, (WCDMA/HSPA) was used for EUT and Base station setting. RMC 12.2kps is used for this testing, and KDB 971168 D01 Power Meas License Digital System as the supplemental test methodology to adjust the proper setting obtaining the measurement results

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6.4. Measurement Equipment Used

Conducted Emission (measured at antenna port) Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	KEYSIGHT	N9010A	MY51440113	06/20/2017	06/19/2018
Communication Tester	Anritsu	MT8820C	6201107337	06/11/2017	06/10/2018
Coaxial Cable 30cm	WOKEN	00100A1F1A 195C	RF01	12/24/2017	12/23/2018
Temperature Chamber	TERCHY	MHK-120LK	1020582	06/13/2017	06/12/2018
DC Block	PASTERNAK	PE8210	RF29	12/24/2017	12/23/2018
Splitter	RF-LAMBAD	RFLT2W1G1 8G	RF35	12/24/2017	12/23/2018
Attenuator	WOKEN	218FS-10	RF23	12/24/2017	12/23/2018
DC Power Supply	Agilent	E3640A	MY53140006	05/02/2017	05/01/2018

6.5. Measurement Result

RF Conducted Output Power

WCDMA MODE:

The following tests were completed according to the test requirements outlined in section 5.2 of the 3GPP TS34.121-1 V8.4.0 specification. The EUT supports power Class 3, which has a nominal maximum output power of 24 dBm (+1.7/-3.7). RMC 12.2kps is used for this testing.

Results:

BNAD II	Avg. Power (dBm) Channel			BNAD IV	Avg. Power (dBm) Channel			BNAD V	Avg. Power (dBm) Channel		
	9262	9400	9538		1312	1413	1513		4132	4183	4233
WCDMA	22.65	22.64	22.39	WCDMA	22.68	22.69	22.65	WCDMA	22.43	22.30	22.22
HSDPA	21.75	21.69	21.45	HSDPA	21.71	21.54	21.61	HSDPA	21.46	21.30	21.36
HSUPA	21.72	21.71	21.44	HSUPA	21.73	21.70	21.68	HSUPA	21.43	21.30	20.20

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LTE Result:

LTE Band 2_Uplink frequency band : 1850 to 1910 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low) 18607	CH (Mid) 18900	CH (High) 19193	CH (Low) 18607	CH (Mid) 18900	CH (High) 19193
1.4	1	0	22.63	22.98	22.99	21.88	22.12	22.17
	1	5	22.85	23.23	23.18	21.81	22.10	22.51
	3	2	23.14	23.22	23.19	22.13	22.21	22.20
	6	0	21.98	22.11	22.21	20.93	21.13	21.12

LTE Band 2_Uplink frequency band : 1850 to 1910 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low) 18615	CH (Mid) 18900	CH (High) 19185	CH (Low) 18615	CH (Mid) 18900	CH (High) 19185
3	1	0	23.13	23.26	23.08	22.50	22.36	22.30
	1	14	23.24	22.95	23.05	22.56	22.29	22.37
	8	4	22.29	22.22	22.18	21.14	21.18	21.12
	15	0	22.16	22.11	22.17	21.22	21.17	21.08

LTE Band 2_Uplink frequency band : 1850 to 1910 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low) 18625	CH (Mid) 18900	CH (High) 19175	CH (Low) 18625	CH (Mid) 18900	CH (High) 19175
5	1	0	23.28	23.24	23.32	22.65	22.57	22.43
	1	24	23.13	23.15	23.19	22.74	22.43	22.51
	12	6	22.30	22.16	22.08	21.20	21.15	21.17
	25	0	22.18	22.12	22.07	21.17	21.11	21.18

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LTE Band 2_Uplink frequency band : 1850 to 1910 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low) 18650	CH (Mid) 18900	CH (High) 19150	CH (Low) 18650	CH (Mid) 18900	CH (High) 19150
10	1	0	23.24	23.25	23.22	22.30	22.22	22.60
	1	49	23.05	23.14	23.17	22.15	22.51	22.65
	25	12	22.14	22.23	22.18	21.22	21.22	21.18
	50	0	22.12	22.19	22.27	21.24	21.11	21.19

LTE Band 2_Uplink frequency band : 1850 to 1910 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low) 18675	CH (Mid) 18900	CH (High) 19125	CH (Low) 18675	CH (Mid) 18900	CH (High) 19125
15	1	0	23.37	23.28	23.66	22.92	22.77	23.02
	1	74	23.19	23.18	23.21	22.75	22.84	22.86
	36	19	22.42	22.46	22.49	21.33	21.46	21.38
	75	0	22.27	22.41	22.40	21.40	21.41	21.30

LTE Band 2_Uplink frequency band : 1850 to 1910 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low) 18700	CH (Mid) 18900	CH (High) 19100	CH (Low) 18700	CH (Mid) 18900	CH (High) 19100
20	1	0	23.42	23.56	23.38	23.04	23.15	22.94
	1	99	23.25	23.15	23.30	22.75	22.64	22.89
	50	25	22.37	22.49	22.64	21.38	21.47	21.59
	100	0	22.49	22.52	22.65	21.48	21.48	21.50

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LTE Band 4_Uplink frequency band : 1710 to 1755 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low) 19957	CH (Mid) 20175	CH (High) 20393	CH (Low) 19957	CH (Mid) 20175	CH (High) 20393
1.4	1	0	23.37	23.29	23.15	22.67	22.24	22.44
	1	5	23.23	22.96	23.41	22.41	22.08	21.79
	3	2	23.43	23.07	23.09	22.40	22.04	22.06
	6	0	22.17	21.87	21.94	21.21	21.00	21.00

LTE Band 4_Uplink frequency band : 1710 to 1755 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low) 19965	CH (Mid) 20175	CH (High) 20385	CH (Low) 19965	CH (Mid) 20175	CH (High) 20385
3	1	0	23.32	23.15	23.18	22.78	22.38	22.21
	1	14	23.34	22.90	22.99	22.52	22.24	22.24
	8	4	22.33	22.00	22.08	21.37	20.95	21.02
	15	0	22.30	21.99	22.06	21.22	21.14	21.01

LTE Band 4_Uplink frequency band : 1710 to 1755 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low) 19975	CH (Mid) 20175	CH (High) 20375	CH (Low) 19975	CH (Mid) 20175	CH (High) 20375
5	1	0	23.28	23.02	23.31	22.61	22.16	22.42
	1	24	23.15	22.85	23.10	22.48	22.24	22.18
	12	6	22.31	22.02	22.02	21.24	21.07	21.16
	25	0	22.28	21.87	22.05	21.26	20.94	21.12

LTE Band 4_Uplink frequency band : 1710 to 1755 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low) 20000	CH (Mid) 20175	CH (High) 20350	CH (Low) 20000	CH (Mid) 20175	CH (High) 20350
10	1	0	23.48	23.22	23.12	22.75	22.58	22.79
	1	49	23.40	22.92	23.08	22.70	22.40	22.42
	25	12	22.28	22.02	22.08	21.22	21.06	21.00
	50	0	22.27	22.06	22.03	21.20	21.06	21.01

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LTE Band 4_Uplink frequency band : 1710 to 1755 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low) 20025	CH (Mid) 20175	CH (High) 20325	CH (Low) 20025	CH (Mid) 20175	CH (High) 20325
15	1	0	23.41	23.44	23.04	23.04	22.58	22.37
	1	74	23.27	22.83	22.95	22.81	22.05	22.10
	36	19	22.46	22.23	22.16	21.32	21.10	21.12
	75	0	22.31	22.25	22.04	21.29	21.17	21.16

LTE Band 4_Uplink frequency band : 1710 to 1755 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm) (dBm)					
			QPSK			16QAM		
			CH (Low) 20050	CH (Mid) 20175	CH (High) 20300	CH (Low) 20050	CH (Mid) 20175	CH (High) 20300
20	1	0	23.56	23.41	23.26	22.38	22.39	22.32
	1	99	23.10	22.76	22.98	21.97	22.12	21.89
	50	25	22.41	22.19	22.20	21.34	21.25	21.09
	100	0	22.23	22.14	22.08	21.23	21.15	21.07

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台灣檢驗科技股份有限公司

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f (886-2) 2298-0488

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LTE Band 5_Uplink frequency band : 824 to 849 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low) 20407	CH (Mid) 20525	CH (High) 20643	CH (Low) 20407	CH (Mid) 20525	CH (High) 20643
1.4	1	0	23.16	23.03	23.09	22.54	22.37	22.09
	1	5	23.05	22.53	22.57	22.52	22.35	21.77
	3	2	23.01	22.80	22.82	22.33	21.90	21.97
	6	0	21.88	21.78	21.75	21.19	21.03	21.03

LTE Band 5_Uplink frequency band : 824 to 849 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low) 20415	CH (Mid) 20525	CH (High) 20635	CH (Low) 20415	CH (Mid) 20525	CH (High) 20635
3	1	0	23.20	22.93	22.95	22.17	21.95	22.08
	1	14	23.23	23.03	22.66	22.29	21.98	22.12
	8	4	22.19	22.04	22.07	21.48	21.08	21.16
	15	0	22.24	21.93	21.96	21.30	21.01	20.93

LTE Band 5_Uplink frequency band : 824 to 849 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low) 20425	CH (Mid) 20525	CH (High) 20625	CH (Low) 20425	CH (Mid) 20525	CH (High) 20625
5	1	0	23.31	23.22	22.88	22.31	22.00	21.99
	1	24	23.06	22.83	22.63	22.11	21.99	21.81
	12	6	22.22	21.88	21.95	21.21	20.97	21.10
	25	0	22.14	22.04	22.01	21.17	20.99	21.11

LTE Band 5_Uplink frequency band : 824 to 849 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low) 20450	CH (Mid) 20525	CH (High) 20600	CH (Low) 20450	CH (Mid) 20525	CH (High) 20600
10	1	0	23.07	23.13	23.10	22.24	22.04	22.26
	1	49	22.77	22.93	22.87	21.80	21.96	22.01
	25	12	22.25	21.95	22.02	21.14	21.04	21.04
	50	0	22.03	21.81	22.08	21.06	20.93	21.04

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LTE Band 7_Uplink frequency band : 2500 to 2570 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low) 20775	CH (Mid) 21100	CH (High) 21425	CH (Low) 20775	CH (Mid) 21100	CH (High) 21425
5	1	0	21.75	21.90	21.82	20.69	20.86	20.74
	1	24	21.85	21.91	21.71	20.89	20.86	21.03
	12	6	20.76	21.00	20.81	19.81	20.08	19.87
	25	0	20.72	20.87	20.67	19.84	19.91	19.75

LTE Band 7_Uplink frequency band : 2500 to 2570 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low) 20800	CH (Mid) 21100	CH (High) 21400	CH (Low) 20800	CH (Mid) 21100	CH (High) 21400
10	1	0	21.78	21.81	21.71	20.97	20.97	20.66
	1	49	21.71	21.96	21.86	20.98	21.07	20.90
	25	12	20.88	20.96	20.71	19.85	19.91	19.74
	50	0	20.83	20.80	20.76	19.83	19.81	19.64

LTE Band 7_Uplink frequency band : 2500 to 2570 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low) 20825	CH (Mid) 21100	CH (High) 21375	CH (Low) 20825	CH (Mid) 21100	CH (High) 21375
15	1	0	21.79	22.04	21.78	21.27	21.35	20.99
	1	74	21.89	21.91	21.92	21.36	21.27	20.99
	36	19	21.00	21.13	20.79	20.01	20.14	19.81
	75	0	20.94	21.16	20.79	19.96	20.10	19.74

LTE Band 7_Uplink frequency band : 2500 to 2570 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low) 20850	CH (Mid) 21100	CH (High) 21350	CH (Low) 20850	CH (Mid) 21100	CH (High) 21350
20	1	0	21.90	22.12	21.68	21.12	21.50	20.98
	1	99	21.88	21.73	21.77	21.10	21.27	21.00
	50	25	20.94	21.19	20.83	19.92	20.26	19.86
	100	0	20.88	21.11	20.71	19.91	20.15	19.86

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LTE Band 12_Uplink frequency band : 699 to 716 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low)	CH (Mid)	CH (High)	CH (Low)	CH (Mid)	CH (High)
			23017	23095	23173	23017	23095	23173
1.4	1	0	23.78	23.30	23.43	23.12	22.89	22.74
	1	5	23.73	23.28	23.25	23.25	23.39	22.93
	3	2	23.70	23.49	23.57	22.53	22.44	22.50
	6	0	22.63	22.29	22.29	21.92	21.61	21.44

LTE Band 12_Uplink frequency band : 699 to 716 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low)	CH (Mid)	CH (High)	CH (Low)	CH (Mid)	CH (High)
			23025	23095	23165	23025	23095	23165
3	1	0	23.63	23.30	23.13	22.54	22.61	22.52
	1	14	23.32	23.51	23.14	22.50	22.53	22.74
	8	4	22.34	22.21	22.32	21.50	21.32	21.25
	15	0	22.41	22.16	22.18	21.54	21.18	21.12

LTE Band 12_Uplink frequency band : 699 to 716 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low)	CH (Mid)	CH (High)	CH (Low)	CH (Mid)	CH (High)
			23035	23095	23155	23035	23095	23155
5	1	0	23.43	23.29	23.14	22.66	22.71	22.64
	1	24	23.38	23.18	23.06	22.67	22.64	22.66
	12	6	22.42	22.21	22.20	21.41	21.20	21.14
	25	0	22.41	22.16	22.26	21.38	21.13	21.06

LTE Band 12_Uplink frequency band : 699 to 716 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low)	CH (Mid)	CH (High)	CH (Low)	CH (Mid)	CH (High)
			23060	23095	23130	23060	23095	23130
10	1	0	23.53	23.33	23.22	22.91	22.59	22.61
	1	49	23.34	23.22	23.31	22.53	22.59	22.38
	25	12	22.45	22.17	22.18	21.36	21.17	21.22
	50	0	22.30	22.30	22.14	21.35	21.35	21.19

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LTE Band 13_Uplink frequency band : 777 to 787 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low) 23205	CH (Mid) 23230	CH (High) 23255	CH (Low) 23205	CH (Mid) 23230	CH (High) 23255
5	1	0	22.83	23.03	22.60	22.39	21.96	22.21
	1	24	22.91	22.77	22.80	22.34	21.95	22.01
	12	6	21.84	21.77	21.95	21.02	20.73	20.87
	25	0	21.80	21.82	21.78	20.84	20.71	20.72

LTE Band 13_Uplink frequency band : 777 to 787 MHz				
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)	
			QPSK	16QAM
			CH (Mid) 23230	CH (Mid) 23230
10	1	0	22.89	22.55
	1	49	22.95	22.44
	25	12	21.83	20.92
	50	0	21.82	20.89

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台灣檢驗科技股份有限公司

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LTE Band 25_Uplink frequency band : 1850 to 1915 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low) 26047	CH (Mid) 26365	CH (High) 26683	CH (Low) 26047	CH (Mid) 26365	CH (High) 26683
1.4	1	0	23.32	23.30	22.92	22.33	22.51	22.07
	1	5	23.23	22.81	23.33	22.27	22.09	22.30
	3	2	22.94	23.05	23.06	22.11	22.18	22.15
	6	0	22.06	22.12	21.89	21.04	21.15	20.98

LTE Band 25_Uplink frequency band : 1850 to 1915 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low) 26055	CH (Mid) 26365	CH (High) 26675	CH (Low) 26055	CH (Mid) 26365	CH (High) 26675
3	1	0	23.29	23.44	23.03	22.21	22.21	22.11
	1	14	23.04	23.47	23.07	22.22	22.55	22.06
	8	4	22.21	22.24	22.08	21.16	21.31	21.22
	15	0	22.09	22.20	22.06	21.02	21.15	21.04

LTE Band 25_Uplink frequency band : 1850 to 1915 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low) 26065	CH (Mid) 26365	CH (High) 26665	CH (Low) 26065	CH (Mid) 26365	CH (High) 26665
5	1	0	23.37	23.27	22.99	22.63	22.28	22.44
	1	24	23.06	23.06	23.18	22.33	22.33	22.17
	12	6	22.07	22.41	22.07	21.23	21.33	21.10
	25	0	22.05	22.21	22.19	21.06	21.25	21.25

LTE Band 25_Uplink frequency band : 1850 to 1915 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low) 26090	CH (Mid) 26365	CH (High) 26640	CH (Low) 26090	CH (Mid) 26365	CH (High) 26640
10	1	0	23.08	23.12	23.24	22.48	22.62	22.58
	1	49	22.96	23.22	23.36	22.40	22.51	22.89
	25	12	22.06	22.16	22.14	21.17	21.16	21.21
	50	0	22.10	22.16	22.22	21.14	21.03	21.17

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LTE Band 25_Uplink frequency band : 1850 to 1915 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low) 26115	CH (Mid) 26365	CH (High) 26615	CH (Low) 26115	CH (Mid) 26365	CH (High) 26615
15	1	0	23.15	23.24	23.36	22.61	22.69	22.80
	1	74	22.94	22.91	23.17	22.61	22.57	22.47
	36	19	22.31	22.18	22.32	21.34	21.11	21.27
	75	0	22.15	22.18	22.26	21.18	21.20	21.24

LTE Band 25_Uplink frequency band : 1850 to 1915 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm) (dBm)					
			QPSK			16QAM		
			CH (Low) 26140	CH (Mid) 26365	CH (High) 26590	CH (Low) 26140	CH (Mid) 26365	CH (High) 26590
20	1	0	23.11	23.02	23.19	22.34	22.41	22.57
	1	99	22.90	22.86	22.95	22.30	22.16	22.14
	50	25	22.19	22.32	22.34	21.31	21.33	21.36
	100	0	22.16	22.12	22.34	21.25	21.22	21.34

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LTE Band 26_Uplink frequency band : 824 to 849 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low)	CH (Mid)	CH (High)	CH (Low)	CH (Mid)	CH (High)
1.4	1	0	23.33	22.59	23.18	22.17	21.78	22.28
	1	5	23.63	22.71	22.76	22.32	21.92	22.07
	3	2	23.11	22.72	22.87	22.36	21.92	21.86
	6	0	22.28	21.61	21.83	21.37	20.73	20.81

LTE Band 26_Uplink frequency band : 824 to 849 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low)	CH (Mid)	CH (High)	CH (Low)	CH (Mid)	CH (High)
3	1	0	23.38	22.83	23.02	22.78	22.34	22.29
	1	14	23.30	22.90	22.94	22.66	22.11	22.19
	8	4	22.30	21.92	21.92	21.39	20.88	20.92
	15	0	22.35	21.84	21.91	21.18	20.87	20.71

LTE Band 26_Uplink frequency band : 824 to 849 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low)	CH (Mid)	CH (High)	CH (Low)	CH (Mid)	CH (High)
5	1	0	23.37	22.90	22.99	22.77	22.36	22.34
	1	24	23.39	22.92	23.04	22.83	22.31	22.27
	12	6	22.29	21.99	21.88	21.30	20.93	20.88
	25	0	22.15	21.81	21.91	21.33	20.80	20.81

LTE Band 26_Uplink frequency band : 824 to 849 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low)	CH (Mid)	CH (High)	CH (Low)	CH (Mid)	CH (High)
10	1	0	23.42	23.02	23.09	22.82	22.41	22.35
	1	49	22.93	22.90	23.05	22.27	22.10	22.30
	25	12	21.93	21.93	21.95	20.85	20.80	20.91
	50	0	21.80	21.96	21.93	20.84	20.84	20.92

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LTE Band 26_Uplink frequency band : 824 to 849 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low)	CH (Mid)	CH (High)	CH (Low)	CH (Mid)	CH (High)
			26775	26865	26965	26775	26865	26965
15	1	0	23.22	23.23	22.97	22.35	22.33	22.53
	1	74	22.85	23.09	23.18	22.05	22.22	22.50
	36	19	21.99	21.93	22.08	21.08	21.02	21.15
	75	0	21.95	21.97	22.03	20.97	21.00	21.19

Part 90S_LTE Band 26_Uplink frequency band : 814 to 824 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low)	CH (Mid)	CH (High)	CH (Low)	CH (Mid)	CH (High)
			26697	26740	26783	26697	26740	26783
1.4	1	0	23.51	22.82	23.23	22.47	22.40	22.67
	1	5	23.59	23.08	23.02	22.81	22.57	22.58
	3	2	23.60	22.80	22.87	22.33	21.84	22.01
	6	0	22.34	21.64	21.75	21.46	20.71	20.81

Part 90S_LTE Band 26_Uplink frequency band : 814 to 824 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low)	CH (Mid)	CH (High)	CH (Low)	CH (Mid)	CH (High)
			26705	26740	26775	26705	26740	26775
3	1	0	23.41	23.17	22.91	22.63	22.33	21.97
	1	14	23.23	22.80	22.85	22.52	22.10	22.32
	8	4	22.32	21.91	21.95	21.38	20.97	20.83
	15	0	22.26	21.93	21.84	21.20	20.81	20.82

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No.134,WuKungRoad,NewTaipeiIndustrialPark,WukuDistrict,NewTaipeiCity,Taiwan24803/新北市五股區新北產業園區五工路 134 號

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

www.tw.sgs.com

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Part 90S_LTE Band 26_Uplink frequency band : 814 to 824 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low)	CH (Mid)	CH (High)	CH (Low)	CH (Mid)	CH (High)
			26715	26740	26765	26715	26740	26765
5	1	0	23.37	22.92	22.89	22.42	22.56	22.55
	1	24	23.28	23.09	22.93	22.34	22.31	22.39
	12	6	22.39	21.99	21.88	21.34	20.97	21.03
	25	0	22.16	21.81	21.99	21.32	20.79	20.80

Part 90S_LTE Band 26_Uplink frequency band : 814 to 824 MHz				
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)	
			QPSK	16QAM
			CH (Mid)	CH (Mid)
			26740	26740
10	1	0	23.03	22.72
	1	49	22.75	22.23
	25	12	21.82	20.8
	50	0	21.96	20.96

LTE Band 30_Uplink frequency band : 2305 to 2315 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low)	CH (Mid)	CH (High)	CH (Low)	CH (Mid)	CH (High)
			27685	27710	27735	27685	27710	27735
5	1	0	22.16	22.10	22.32	21.62	21.39	21.47
	1	24	22.01	21.98	21.93	21.66	21.43	21.14
	12	6	21.38	21.10	21.26	20.42	20.26	20.22
	25	0	21.22	21.19	21.22	20.20	20.21	20.21

LTE Band 30_Uplink frequency band : 2305 to 2315 MHz				
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)	
			QPSK	16QAM
			CH (Mid)	CH (Mid)
			27710	27710
10	1	0	22.30	21.59
	1	49	22.30	21.36
	25	12	21.20	20.25
	50	0	21.18	20.12

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LTE Band 41_Uplink frequency band : 2496 to 2690 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low) 39675	CH (Mid) 40620	CH (High) 41565	CH (Low) 39675	CH (Mid) 40620	CH (High) 41565
5	1	0	23.34	23.11	23.22	22.41	22.45	22.24
	1	24	23.26	22.98	22.98	22.43	22.23	22.15
	12	6	22.32	22.12	21.93	21.44	21.19	21.12
	25	0	22.32	22.17	21.96	21.36	21.25	21.08

LTE Band 41_Uplink frequency band : 2496 to 2690 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low) 39700	CH (Mid) 40620	CH (High) 41540	CH (Low) 39700	CH (Mid) 40620	CH (High) 41540
10	1	0	23.13	23.21	23.32	22.37	22.22	22.48
	1	49	22.9	22.69	23.04	22.15	22.04	22.29
	25	12	22.07	21.92	21.78	21.18	20.88	20.83
	50	0	22.12	21.86	21.89	21.04	20.86	20.93

LTE Band 41_Uplink frequency band : 2496 to 2690 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low) 39725	CH (Mid) 40620	CH (High) 41515	CH (Low) 39725	CH (Mid) 40620	CH (High) 41515
15	1	0	23.33	23.06	23.03	22.1	22.49	21.86
	1	74	23.04	22.88	22.69	21.83	21.6	21.39
	36	19	22.13	21.95	21.91	21.12	21.01	20.84
	75	0	22.2	21.92	21.95	21.18	21.02	20.97

LTE Band 41_Uplink frequency band : 2496 to 2690 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low) 39750	CH (Mid) 40620	CH (High) 41490	CH (Low) 39750	CH (Mid) 40620	CH (High) 41490
20	1	0	23.47	23.35	22.78	22.47	22.35	21.78
	1	99	23.17	23.1	21.89	22.17	22.1	20.89
	50	25	22.4	22.24	22.08	21.4	21.24	21.08
	100	0	22.38	22.18	22.18	21.38	21.18	21.18

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HSDPA Release 6 MODE:

The following 4 Sub-Tests were completed according to the test requirements outlined in section 5.2A of the 3GPP TS34.121-1 V8.4.0 specification. All TX RMS power requirements for Power Class 3 were met according to table 5.2AA.5 and 5.2B.5 All UE channels and power ratio's are set according to table C10.1.4 & C11.1.3 in the 3GPP TS34.121-1 V8.4.0. RMC 12.2kps is used for this testing.

HSDPA SUB-TEST Setting

Table C.10.1.4: β values for transmitter characteristics tests with HS-DPCCH(FOR HSDPA)

Sub-test	β_c	β_d	β_d (SF)	β_c/β_d	β_{HS} (Note 1, Note 2)	CM (dB) (Note 3)	MPR (dB) (Note 3)	RMC (Kbps)
1	2/15	15/15	64	2/15	4/15	0.0	0.0	12.2
2	12/15 (Note 4)	15/15 (Note 4)	64	12/15 (Note 4)	24/15	1.0	0.0	12.2
3	15/15	8/15	64	15/8	30/15	1.5	0.5	12.2
4	15/15	4/15	64	15/4	30/15	1.5	0.5	12.2

Note: The recommended HSDPA MPRs are implemented as per following sub-tests.

Mode	Sub test	Avg. Power (dBm) Channel			Power Class 3 Limitation (dBm)	Comments
		9262	9400	9538		
HSDPA II	1	21.67	21.73	21.46	20.3dBm – 25.7dBm	Pass
	2	21.75	21.81	21.49	20.3dBm – 25.7dBm	Pass
	3	21.2	21.23	21	19.8dBm – 25.7dBm	Pass
	4	21.18	21.22	20.98	19.8dBm – 25.7dBm	Pass

Mode	Sub test	Avg. Power (dBm) Channel			Power Class 3 Limitation (dBm)	Comments
		1312	1413	1513		
HSDPA IV	1	21.7	21.64	21.6	20.3dBm – 25.7dBm	Pass
	2	21.72	21.64	21.62	20.3dBm – 25.7dBm	Pass
	3	21.14	21.07	21.1	19.8dBm – 25.7dBm	Pass
	4	21.19	21.06	21.13	19.8dBm – 25.7dBm	Pass

Mode	Sub test	Avg. Power (dBm) Channel			Power Class 3 Limitation (dBm)	Comments
		4132	4183	4233		
HSDPA V	1	21.45	21.23	21.28	20.3dBm – 25.7dBm	Pass
	2	21.46	21.32	21.36	20.3dBm – 25.7dBm	Pass
	3	20.92	20.81	20.84	19.8dBm – 25.7dBm	Pass
	4	20.89	20.78	20.85	19.8dBm – 25.7dBm	Pass

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HSPA (HSDPA & HSUPA) Release 6 MODE

The following 5 Sub-Tests were completed according to the test requirements outlined in section 5.2A of the 3GPP TS34.121-1 V8.4.0 specification. All TX RMS power requirements for Power Class 3 were met according to table 5.2AA.5 and 5.2B.5 All UE channels and power ratio's are set according to table C11.1.3 in the 3GPP TS34.121-1 V8.4.0. RMC 12.2kps is used for this testing

HSPA SUB-TEST Setting

Table C.11.1.3: β values for transmitter characteristics tests with HS-DPCCH and E-DCH(FOR HSUPA)

Sub-test	β_c	β_d	β_d (SF)	β_c/β_d	β_{HS}	β_{ec}	β_{ed}	β_{ed} (SF)	β_{ed} (Code s)	CM (dB)	MPR (dB)	AG Index	E-TFCI	RMC (Kbps)
1	11/15 (Note 3)	15/15 (Note 3)	64	11/15 (Note 3)	22/15	209/225	1309/225	4	1	1.0	0.0	20	75	12.2
2	6/15	15/15	64	6/15	12/15	12/15	94/75	4	1	3.0	2.0	12	67	12.2
3	15/15	9/15	64	15/9	30/15	30/15	$\beta_{ed1}: 47/15$ $\beta_{ed2}: 47/15$	4 4	2	2.0	1.0	15	92	12.2
4	2/15	15/15	64	2/15	4/15	2/15	56/75	4	1	3.0	2.0	17	71	12.2
5	15/15 (Note 4)	15/15 (Note 4)	64	15/15 (Note 4)	30/15	24/15	134/15	4	1	1.0	0.0	21	81	12.2

Note: The recommended HSUPA MPRs are implemented as per following sub-tests.

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台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

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Results:

Mode	Sub test	Avg. Power (dBm) Channel			Power Class 3 Limitation (dBm)	Comments
		9262	9400	9538		
HSUPA II	1	21.75	21.7	21.48	18.8dBm – 25.7dBm	Pass
	2	21.18	21.16	20.9	16.8dBm – 25.7dBm	Pass
	3	21.77	21.71	21.52	17.8dBm – 25.7dBm	Pass
	4	21.71	21.7	21.48	16.8dBm – 25.7dBm	Pass
	5	21.78	21.72	21.49	18.8dBm – 25.7dBm	Pass
Mode	Sub test	Avg. Power (dBm) Channel			Power Class 3 Limitation (dBm)	Comments
		1312	1413	1513		
HSDPA IV	1	21.69	21.61	21.65	20.3dBm – 25.7dBm	Pass
	2	21.15	21.12	21.06	20.3dBm – 25.7dBm	Pass
	3	21.71	21.65	21.65	19.8dBm – 25.7dBm	Pass
	4	21.65	21.61	21.58	19.8dBm – 25.7dBm	Pass
	5	21.66	21.66	21.64	19.8dBm – 25.7dBm	Pass
Mode	Sub test	Avg. Power (dBm) Channel			Power Class 3 Limitation (dBm)	Comments
		4132	4183	4233		
HSUPA V	1	21.44	21.27	21.28	18.8dBm – 25.7dBm	Pass
	2	20.94	20.72	20.74	16.8dBm – 25.7dBm	Pass
	3	21.49	21.31	21.3	17.8dBm – 25.7dBm	Pass
	4	21.47	21.25	21.2	16.8dBm – 25.7dBm	Pass
	5	21.46	21.27	21.32	18.8dBm – 25.7dBm	Pass

WCDMA/HSDPA/HSUPA band II, IV, V

The EUT output power was controlled by simulator. Set Communication Tester MT8820C function key “UE Power Control” and enter max rated power 24dBm. The EUT is going to be set to max output power to 24dBm. Then record the read (see page 15 for measurement data). The min. power was measures by a function key “minimum power” then record the read. It is -52.3dBm. The power variation can be 0.1dB step by setting.

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7. EFFECTIVE RADIATED POWER AND EQUIVALENT ISOTROPIC RADIATED POWER MEASUREMENT

7.1. Standard Applicable

According to FCC §2.1046

FCC 22.913(a) Mobile station is limited to 7W ERP.

FCC 24.232(b) Mobile and portable stations are limited to 2 W EIRP.

FCC 27.50(a)(3) Mobile and portable stations (hand-held devices) are limited to 250 mW/ 5MHz EIRP.

FCC 27.50(c)(10) Portable stations (hand-held devices) are limited to 3 watts ERP.

FCC 27.50(d)(4) Fixed, mobile, and portable (hand-held) stations are limited to 1W EIRP.

FCC 27, 50(h)(2) Mobile and other user stations. Mobile stations are limited to 2 W EIRP

FCC 90.635(b) Mobile station is limited to 100W ERP

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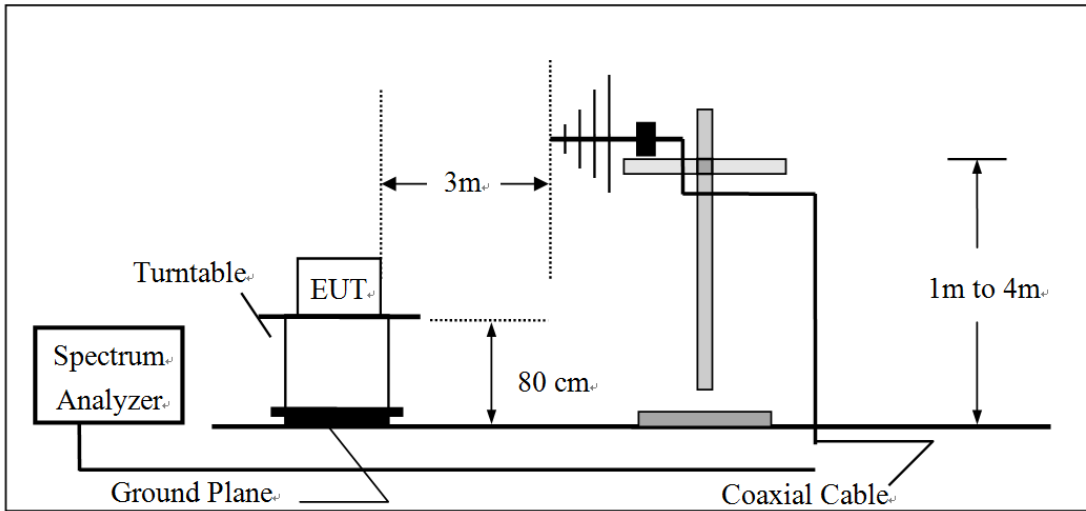
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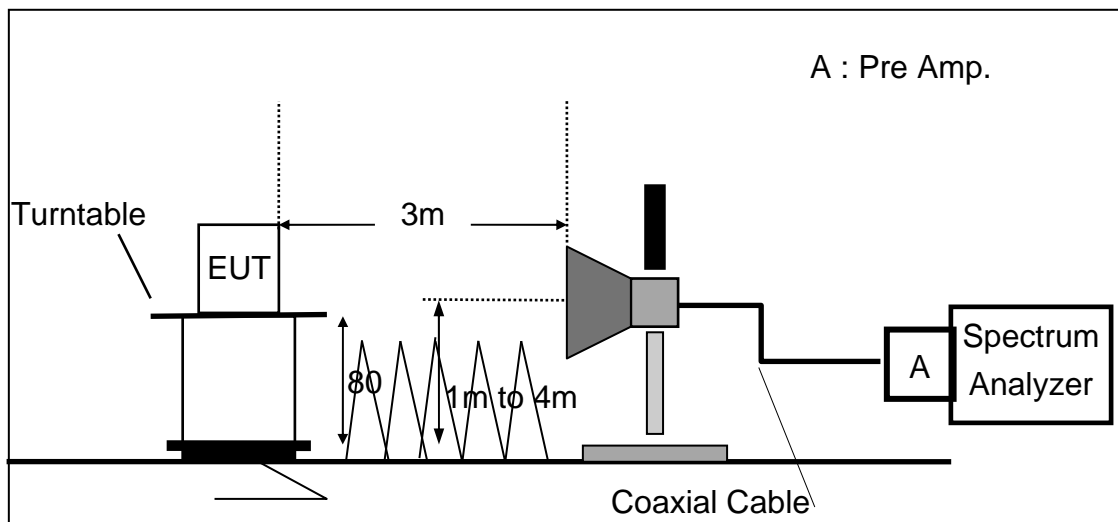
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7.2. Test SET-UP

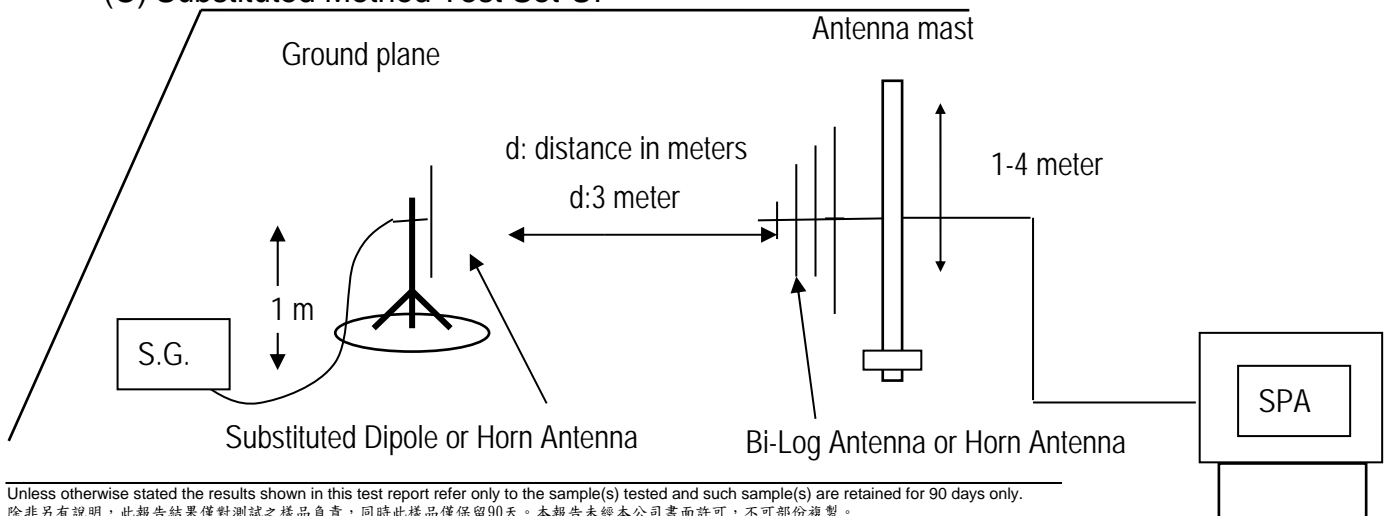
(A) Radiated Power Test Set-Up, Frequency Below 1000MHz



(B) Radiated Power Test Set-UP Frequency Over 1 GHz



(C) Substituted Method Test Set-UP



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7.3. Measurement Procedure

1. The testing follows the Measurement Procedure of FCC KDB 971168 D01
2. The EUT was placed on a non-conductive turntable using a non-conductive support. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and EMI spectrum analyzer.
3. During the measurement, the EUT was communication with the station. The highest emission was recorded with the rotation of the turntable and the lowering of the test antenna from 4m to 1m. The reading was recorded and the field strength (E in dBuV/m) was calculated
4. The testing follows the Measurement Procedure of FCC KDB 971168 D01
5. The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a tx cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to "Read Value" of step b. Record the power level of S.G.
6. $ERP = S.G. \text{ output (dBm)} + \text{Antenna Gain (dBd)} - \text{Cable Loss (dB)}$
7. $EIRP = S.G. \text{ output (dBm)} + \text{Antenna Gain (dBi)} - \text{Cable Loss (dB)}$
8. Spectrum setting:
 - (1) Detector = Peak, marker the highest value of the detector by maximum hold, set RBW wide enough to capture the entire signal of emission, and $VBW \geq 3 \times RBW$.
 - (2) KDB 971168 D01 is adopted, and the procedure as lists under item 4, Measurement of the Average Power over the Fundamental Signal Bandwidth, is followed to set correspondingly for the acquisition of proper measurement data.
Set frequency = nominal signal center frequency;
Set span = 2 X occupied BW;
Set RBW \approx 1~5% of the span, not to exceed 1 MHz
Set VBW = 3 x RBW;
Select average power (RMS) detector
Set sweep time and number of measurement points to achieve a minimum of 1 millisecond/pt integration time (ex. Point = 601points, then sweep time = $601 \times 10^{-3} = 6s$.)

Activate trace averaging routine over a minimum of 10 sweeps;

Activate marker/span pair and set span = signal or channel bandwidth;

Activate the band/interval power marker function;

Record the band power level;

Record adjusted value as the average signal power level. Then activate the occupied bandwidth measurement function.

The proper adjustment due to limitation of spectrum capability is given compensated to spectrum with conversion factor of $10 \times \log(TBW/RBW)$, where TBW is the transmission of UE exceeding the maximum BW UE can extends, and RBW is the resolution BW in UE.

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7.4. Measurement Equipment Used

ERP, EIRP MEASUREMENT EQUIPMENT List 966 Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Test Receiver	R&S	ESU 40	100363	04/18/2017	04/17/2018
Broadband Antenna	TESEQ	CBL 6112D	35240	11/03/2017	11/02/2018
Broadband Antenna	TESEQ	CBL 6112D	35243	11/09/2017	11/08/2018
Horn Antenna	ETS-Lindgren	3117	00143272	12/15/2017	12/16/2018
Horn Antenna	ETS-Lindgren	3117	143279	11/14/2017	11/13/2018
Horn Antenna	Schwarzbeck	BBHA9170	184	12/11/2017	12/10/2018
Horn Antenna	Schwarzbeck	BBHA9170	185	08/01/2017	07/31/2018
Pre Amplifier	EMC Instruments	EMC330	980096	12/24/2017	12/23/2018
Pre Amplifier	EMC Instruments	EMC0011830	980199	12/24/2017	12/23/2018
Pre Amplifier	R&S	SCU-18	10204	12/24/2017	12/23/2018
Pre Amplifier	R&S	SCU-26	100780	12/24/2017	12/23/2018
Pre Amplifier	EMC Instruments	EMC184045B	980135	12/24/2017	12/23/2018
Coaxial Cable	Huber+Suhner	RG 214/U	966Rx 9K-30M	12/24/2017	12/23/2018
Coaxial Cable	Huber+Suhner	RG 214/U SUCOFLEX 104	966Rx 30M-3G	12/24/2017	12/23/2018
Coaxial Cable	Huber+Suhner	SUCOFLEX 104	966Rx 1G-18G	12/24/2017	12/23/2018
Coaxial Cable	Huber+Suhner	mini 141-12 SUCOFLEX 104	966Rx 18G-40G	12/24/2017	12/23/2018
Coaxial Cable	Huber+Suhner	SUCOFLEX 104	966Tx 30M-18G	12/24/2017	12/23/2018
Coaxial Cable	Huber+Suhner	SUCOFLEX 102	966Tx 18G-40G	12/24/2017	12/23/2018
Attenuator	WOKEN	218FS-10	RF27	12/24/2017	12/23/2018
Communication Tester	Anritsu	MT8820C	6201107337	06/11/2017	06/10/2018
Site NSA	SGS	966 Chamber C	SAC-C	03/02/2017	03/01/2018
Site VSWR	SGS	966 Chamber C	SAC-C	03/02/2017	03/01/2018
DC Power Supply	HOLA	DP-3003	D7070035	05/04/2017	05/03/2018
Controller	MF	MF-7802	N/A	N.C.R.	N.C.R.
Antenna Master	MF	N/A	N/A	N.C.R.	N.C.R.
Turn Table	MF	N/A	N/A	N.C.R.	N.C.R.
Test Software	World-Pallas	Dr. E	V 3.0 Lite	N.C.R.	N.C.R.

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7.5. Measurement Result: (Peak) –using option of peak measurement
FCC EIRP Measurement

Part24								
EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
WCDMA Band II	1852.4	9262	V	19.94	9.58	-6.86	22.66	33.01
			H	9.42	9.58	-6.86	12.14	33.01
	1880.0	9400	V	19.42	9.69	-6.91	22.2	33.01
			H	5.36	9.69	-6.91	8.14	33.01
	1907.6	9538	V	19.33	9.81	-6.96	22.18	33.01
			H	3.54	9.81	-6.96	6.39	33.01
Remark : (1) The RBW,VBW of SPA for frequency RBW= 5MHz , VBW= 8MHz								
Part24								
EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
HSDPA Band II	1852.4	9262	V	17.74	9.58	-6.86	20.46	33.01
			H	7.68	9.58	-6.86	10.4	33.01
	1880.0	9400	V	17.56	9.69	-6.91	20.34	33.01
			H	6.53	9.69	-6.91	9.31	33.01
	1907.6	9538	V	18.3	9.81	-6.96	21.15	33.01
			H	3.67	9.82	-6.97	6.52	33.01
Remark : (1) The RBW,VBW of SPA for frequency RBW= 5MHz , VBW= 8MHz								
Part24								
EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
HSUPA Band II	1852.4	9262	V	14.99	9.58	-6.86	17.71	33.01
			H	7.62	9.58	-6.86	10.34	33.01
	1880.0	9400	V	13.68	9.69	-6.91	16.46	33.01
			H	6.58	9.69	-6.91	9.36	33.01
	1907.6	9538	V	11.1	9.81	-6.96	13.95	33.01
			H	3.66	9.81	-6.96	6.51	33.01
Remark : (1) The RBW,VBW of SPA for frequency RBW= 5MHz , VBW= 8MHz								

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Part27								
EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
WCDMA Band IV	1712.4	1312	V	22.26	8.99	-6.58	24.67	30.00
			H	13.66	8.99	-6.59	16.06	30.00
	1732.6	1413	V	20.73	9.07	-6.62	23.18	30.00
			H	12.29	9.07	-6.62	14.74	30.00
	1752.6	1513	V	20.75	9.16	-6.67	23.24	30.00
			H	10.49	9.16	-6.67	12.98	30.00

Remark :

(1) The RBW,VBW of SPA for frequency RBW= 5MHz , VBW= 8MHz

Part27								
EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
HSDPA Band IV	1712.4	1312	V	19.8	8.99	-6.58	22.21	30.00
			H	11.45	8.99	-6.59	13.85	30.00
	1732.6	1413	V	19.77	9.07	-6.62	22.22	30.00
			H	10.93	9.07	-6.62	13.38	30.00
	1752.6	1513	V	20.22	9.16	-6.66	22.72	30.00
			H	10.68	9.16	-6.66	13.18	30.00

Remark :

(1) The RBW,VBW of SPA for frequency RBW= 5MHz , VBW= 8MHz

Part27								
EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
HSUPA Band IV	1712.4	1312	V	19.33	8.99	-6.58	21.74	30.00
			H	12.95	8.99	-6.58	15.36	30.00
	1732.6	1413	V	18.32	9.07	-6.62	20.77	30.00
			H	10.63	9.07	-6.62	13.08	30.00
	1752.6	1513	V	19.09	9.16	-6.66	21.59	30.00
			H	8.84	9.16	-6.66	11.34	30.00

Remark :

(1) The RBW,VBW of SPA for frequency RBW= 5MHz , VBW= 8MHz

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Part22								
EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
WCDMA Band V	826.4	4132	V	20.26	5.13	-4.19	21.20	38.45
			H	18.63	5.13	-4.19	19.57	38.45
	836.6	4183	V	19.35	5.1	-4.22	20.23	38.45
			H	17.76	5.1	-4.23	18.63	38.45
	846.6	4233	V	19.14	5.06	-4.26	19.94	38.45
			H	18.48	5.06	-4.26	19.28	38.45

Remark :

(1) The RBW,VBW of SPA for frequency RBW=300 KHz, VBW=1MHz

Part22								
EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
HSDPA Band V	826.4	4132	V	19.84	5.13	-4.19	20.78	38.45
			H	18.04	5.13	-4.19	18.98	38.45
	836.6	4183	V	19.35	5.1	-4.22	20.23	38.45
			H	17.76	5.1	-4.22	18.64	38.45
	846.6	4233	V	19.43	5.07	-4.26	20.24	38.45
			H	18.5	5.06	-4.26	19.30	38.45

Remark :

(1) The RBW,VBW of SPA for frequency RBW=300 KHz, VBW=1MHz

Part22								
EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
HSUPA Band V	826.4	4132	V	19.9	5.13	-4.19	20.84	38.45
			H	18	5.13	-4.19	18.94	38.45
	836.6	4183	V	19.32	5.1	-4.22	20.20	38.45
			H	17.81	5.1	-4.22	18.69	38.45
	846.6	4233	V	19.45	5.07	-4.26	20.26	38.45
			H	18.5	5.07	-4.26	19.31	38.45

Remark :

(1) The RBW,VBW of SPA for frequency RBW=300 KHz, VBW=1MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE BAND 2 BW: 1.4M QPSK RB: 1,0	1850.7	18607	V	17.78	9.57	-6.86	20.49	33.01
			H	9.96	9.57	-6.86	12.67	33.01
	1880.0	18900	V	20.01	9.69	-6.91	22.79	33.01
			H	11.02	9.69	-6.91	13.80	33.01
	1909.3	19193	V	17.13	9.82	-6.97	19.98	33.01
			H	9.08	9.82	-6.97	11.93	33.01
LTE BAND 2 BW: 1.4M QPSK RB: 1,5	1850.7	18607	V	17.13	9.58	-6.86	19.85	33.01
			H	9.32	9.58	-6.86	12.04	33.01
	1880.0	18900	V	19.65	9.70	-6.91	22.44	33.01
			H	10.70	9.70	-6.91	13.49	33.01
	1909.3	19193	V	17.24	9.82	-6.97	20.09	33.01
			H	9.09	9.82	-6.97	11.94	33.01
LTE BAND 2 BW: 1.4M 16QAM RB: 1,0	1850.7	18607	V	18.56	9.57	-6.85	21.28	33.01
			H	10.72	9.58	-6.86	13.44	33.01
	1880.0	18900	V	19.91	9.69	-6.91	22.69	33.01
			H	11.04	9.70	-6.91	13.83	33.01
	1909.3	19193	V	17.25	9.82	-6.97	20.10	33.01
			H	9.05	9.82	-6.97	11.90	33.01
LTE BAND 2 BW: 1.4M 16QAM RB: 1,5	1850.7	18607	V	18.66	9.58	-6.86	21.38	33.01
			H	10.94	9.58	-6.86	13.66	33.01
	1880.0	18900	V	19.79	9.70	-6.91	22.58	33.01
			H	10.80	9.70	-6.91	13.59	33.01
	1909.3	19193	V	17.28	9.82	-6.97	20.13	33.01
			H	9.26	9.83	-6.97	12.12	33.01

Remark : (1)The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE BAND 2 BW: 3M QPSK RB: 1,0	1851.5	18615	V	16.23	9.57	-6.86	18.94	33.01
			H	9.58	9.57	-6.86	12.29	33.01
	1880.0	18900	V	18.23	9.69	-6.91	21.01	33.01
			H	10.77	9.69	-6.91	13.55	33.01
	1908.5	19185	V	17.17	9.81	-6.96	20.02	33.01
			H	9.38	9.81	-6.96	12.23	33.01
LTE BAND 2 BW: 3M QPSK RB: 1,14	1851.5	18615	V	15.70	9.58	-6.86	18.42	33.01
			H	8.82	9.58	-6.86	11.54	33.01
	1880.0	18900	V	18.01	9.70	-6.92	20.79	33.01
			H	10.41	9.70	-6.92	13.19	33.01
	1908.5	19185	V	17.09	9.82	-6.97	19.94	33.01
			H	9.26	9.82	-6.97	12.11	33.01
LTE BAND 2 BW: 3M 16QAM RB: 1,0	1851.5	18615	V	16.18	9.57	-6.86	18.89	33.01
			H	9.66	9.57	-6.86	12.37	33.01
	1880.0	18900	V	18.10	9.69	-6.91	20.88	33.01
			H	10.56	9.69	-6.91	13.34	33.01
	1908.5	19185	V	16.99	9.81	-6.96	19.84	33.01
			H	9.37	9.81	-6.96	12.22	33.01
LTE BAND 2 BW: 3M 16QAM RB: 1,14	1851.5	18615	V	17.28	9.58	-6.86	20.00	33.01
			H	10.15	9.58	-6.86	12.87	33.01
	1880.0	18900	V	18.19	9.70	-6.91	20.98	33.01
			H	10.47	9.71	-6.92	13.26	33.01
	1908.5	19185	V	17.14	9.82	-6.97	19.99	33.01
			H	9.35	9.83	-6.97	12.21	33.01

Remark : (1)The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE BAND 2 BW: 5M QPSK RB: 1,0	1852.5	18625	V	16.15	9.57	-6.86	18.86	33.01
			H	9.93	9.57	-6.86	12.64	33.01
	1880.0	18900	V	19.52	9.69	-6.91	22.30	33.01
			H	10.81	9.69	-6.91	13.59	33.01
	1907.5	19175	V	17.37	9.80	-6.96	20.21	33.01
			H	9.50	9.81	-6.96	12.35	33.01
LTE BAND 2 BW: 5M QPSK RB: 1,24	1852.5	18625	V	17.13	9.59	-6.86	19.86	33.01
			H	8.19	9.59	-6.86	10.92	33.01
	1880.0	18900	V	19.38	9.71	-6.92	22.17	33.01
			H	10.44	9.71	-6.92	13.23	33.01
	1907.5	19175	V	17.06	9.82	-6.97	19.91	33.01
			H	9.13	9.82	-6.97	11.98	33.01
LTE BAND 2 BW: 5M 16QAM RB: 1,0	1852.5	18625	V	17.55	9.57	-6.86	20.26	33.01
			H	9.61	9.57	-6.86	12.32	33.01
	1880.0	18900	V	19.78	9.69	-6.91	22.56	33.01
			H	10.96	9.69	-6.91	13.74	33.01
	1907.5	19175	V	17.40	9.81	-6.96	20.25	33.01
			H	9.49	9.80	-6.96	12.33	33.01
LTE BAND 2 BW: 5M 16QAM RB: 1,24	1852.5	18625	V	17.61	9.59	-6.86	20.34	33.01
			H	9.94	9.59	-6.86	12.67	33.01
	1880.0	18900	V	19.40	9.71	-6.92	22.19	33.01
			H	10.50	9.71	-6.92	13.29	33.01
	1907.5	19175	V	17.13	9.82	-6.97	19.98	33.01
			H	9.21	9.82	-6.97	12.06	33.01

Remark : (1)The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE BAND 2 BW: 10M QPSK RB: 1,0	1855.0	18650	V	16.16	9.57	-6.86	18.87	33.01
			H	9.53	9.57	-6.86	12.24	33.01
	1880.0	18900	V	19.49	9.68	-6.90	22.27	33.01
			H	10.44	9.68	-6.90	13.22	33.01
	1905.0	19150	V	17.78	9.78	-6.95	20.61	33.01
			H	9.29	9.78	-6.95	12.12	33.01
LTE BAND 2 BW: 10M QPSK RB: 1,49	1855.0	18650	V	17.08	9.61	-6.87	19.82	33.01
			H	8.62	9.61	-6.87	11.36	33.01
	1880.0	18900	V	18.80	9.72	-6.92	21.60	33.01
			H	9.93	9.71	-6.92	12.72	33.01
	1905.0	19150	V	16.74	9.82	-6.97	19.59	33.01
			H	9.42	9.82	-6.97	12.27	33.01
LTE BAND 2 BW: 10M 16QAM RB: 1,0	1855.0	18650	V	16.15	9.57	-6.86	18.86	33.01
			H	9.61	9.57	-6.86	12.32	33.01
	1880.0	18900	V	19.31	9.68	-6.90	22.09	33.01
			H	10.26	9.68	-6.90	13.04	33.01
	1905.0	19150	V	17.86	9.79	-6.95	20.70	33.01
			H	9.31	9.79	-6.95	12.15	33.01
LTE BAND 2 BW: 10M 16QAM RB: 1,49	1855.0	18650	V	17.90	9.61	-6.87	20.64	33.01
			H	9.35	9.61	-6.87	12.09	33.01
	1880.0	18900	V	18.80	9.72	-6.92	21.60	33.01
			H	10.01	9.72	-6.92	12.81	33.01
	1905.0	19150	V	16.77	9.82	-6.97	19.62	33.01
			H	9.43	9.82	-6.97	12.28	33.01

Remark : (1) The RBW, VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE BAND 2 BW: 15M QPSK RB: 1,0	1857.5	18675	V	16.32	9.58	-6.86	19.04	33.01
			H	9.81	9.58	-6.86	12.53	33.01
	1880.0	18900	V	19.08	9.67	-6.90	21.85	33.01
			H	9.16	9.67	-6.90	11.93	33.01
	1902.5	19125	V	18.04	9.77	-6.94	20.87	33.01
			H	9.30	9.76	-6.94	12.12	33.01
LTE BAND 2 BW: 15M QPSK RB: 1,74	1857.5	18675	V	16.81	9.63	-6.88	19.56	33.01
			H	7.68	9.63	-6.88	10.43	33.01
	1880.0	18900	V	18.38	9.73	-6.93	21.18	33.01
			H	9.81	9.73	-6.93	12.61	33.01
	1902.5	19125	V	16.81	9.82	-6.97	19.66	33.01
			H	9.43	9.82	-6.97	12.28	33.01
LTE BAND 2 BW: 15M 16QAM RB: 1,0	1857.5	18675	V	16.41	9.58	-6.86	19.13	33.01
			H	9.71	9.58	-6.86	12.43	33.01
	1880.0	18900	V	17.92	9.67	-6.90	20.69	33.01
			H	9.19	9.67	-6.90	11.96	33.01
	1902.5	19125	V	17.89	9.77	-6.94	20.72	33.01
			H	8.94	9.76	-6.94	11.76	33.01
LTE BAND 2 BW: 15M 16QAM RB: 1,74	1857.5	18675	V	18.07	9.63	-6.88	20.82	33.01
			H	8.98	9.64	-6.88	11.74	33.01
	1880.0	18900	V	18.35	9.73	-6.93	21.15	33.01
			H	9.79	9.73	-6.93	12.59	33.01
	1902.5	19125	V	16.80	9.82	-6.97	19.65	33.01
			H	9.50	9.82	-6.97	12.35	33.01

Remark : (1) The RBW, VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE BAND 2 BW: 20M QPSK RB: 1,0	1860.0	18700	V	16.17	9.58	-6.86	18.89	33.01
			H	9.58	9.58	-6.86	12.30	33.01
	1880.0	18900	V	17.93	9.66	-6.90	20.69	33.01
			H	9.15	9.66	-6.89	11.92	33.01
	1900.0	19100	V	17.79	9.74	-6.93	20.60	33.01
			H	9.41	9.75	-6.93	12.23	33.01
LTE BAND 2 BW: 20M QPSK RB: 1,99	1860.0	18700	V	17.61	9.65	-6.89	20.37	33.01
			H	8.52	9.65	-6.89	11.28	33.01
	1880.0	18900	V	17.76	9.73	-6.93	20.56	33.01
			H	9.42	9.73	-6.93	12.22	33.01
	1900.0	19100	V	16.66	9.82	-6.97	19.51	33.01
			H	9.51	9.82	-6.97	12.36	33.01
LTE BAND 2 BW: 20M 16QAM RB: 1,0	1860.0	18700	V	17.64	9.58	-6.86	20.36	33.01
			H	11.00	9.58	-6.86	13.72	33.01
	1880.0	18900	V	17.97	9.66	-6.90	20.73	33.01
			H	8.77	9.66	-6.90	11.53	33.01
	1900.0	19100	V	17.92	9.74	-6.93	20.73	33.01
			H	9.48	9.74	-6.93	12.29	33.01
LTE BAND 2 BW: 15M 16QAM RB: 1,99	1860.0	18700	V	17.68	9.65	-6.89	20.44	33.01
			H	8.58	9.65	-6.89	11.34	33.01
	1880.0	18900	V	18.05	9.74	-6.93	20.86	33.01
			H	9.49	9.74	-6.93	12.30	33.01
	1900.0	19100	V	16.72	9.82	-6.97	19.57	33.01
			H	9.55	9.82	-6.97	12.40	33.01

Remark : (1)The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE BAND 4 BW: 1.4M QPSK RB: 1,0	1710.7	19957	V	15.68	8.98	-6.58	18.08	30.00
			H	9.55	8.98	-6.58	11.95	30.00
	1732.5	20175	V	14.69	9.08	-6.62	17.15	30.00
			H	9.66	9.08	-6.63	12.11	30.00
	1754.3	20393	V	15.45	9.17	-6.67	17.95	30.00
			H	10.79	9.17	-6.67	13.29	30.00
LTE BAND 4 BW: 1.4M QPSK RB: 1,5	1710.7	19957	V	15.73	8.99	-6.58	18.14	30.00
			H	9.70	8.99	-6.58	12.11	30.00
	1732.5	20175	V	14.81	9.08	-6.63	17.26	30.00
			H	9.67	9.08	-6.63	12.12	30.00
	1754.3	20393	V	15.31	9.17	-6.67	17.81	30.00
			H	10.56	9.17	-6.67	13.06	30.00
LTE BAND 4 BW: 1.4M 16QAM RB: 1,0	1710.7	19957	V	16.13	8.98	-6.58	18.53	30.00
			H	11.15	8.99	-6.58	13.56	30.00
	1732.5	20175	V	15.03	9.08	-6.62	17.49	30.00
			H	9.93	9.08	-6.63	12.38	30.00
	1754.3	20393	V	15.93	9.17	-6.67	18.43	30.00
			H	10.85	9.17	-6.67	13.35	30.00
LTE BAND 4 BW: 1.4M 16QAM RB: 1,5	1710.7	19957	V	14.66	8.98	-6.58	17.06	30.00
			H	11.18	8.99	-6.58	13.59	30.00
	1732.5	20175	V	14.88	9.08	-6.63	17.33	30.00
			H	9.72	9.08	-6.63	12.17	30.00
	1754.3	20393	V	15.54	9.17	-6.67	18.04	30.00
			H	10.59	9.17	-6.67	13.09	30.00

Remark : (1)The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE BAND 4 BW: 3M QPSK RB: 1,0	1711.5	19965	V	15.01	8.98	-6.58	17.41	30.00
			H	9.45	8.98	-6.58	11.85	30.00
	1732.5	20175	V	16.09	9.07	-6.62	18.54	30.00
			H	10.37	9.07	-6.62	12.82	30.00
	1753.5	20385	V	16.86	9.16	-6.67	19.35	30.00
			H	10.69	9.16	-6.66	13.19	30.00
LTE BAND 4 BW: 3M QPSK RB: 1,14	1711.5	19965	V	15.20	9.00	-6.59	17.61	30.00
			H	9.98	9.00	-6.59	12.39	30.00
	1732.5	20175	V	15.83	9.08	-6.63	18.28	30.00
			H	9.85	9.08	-6.63	12.30	30.00
	1753.5	20385	V	16.42	9.17	-6.67	18.92	30.00
			H	10.39	9.17	-6.67	12.89	30.00
LTE BAND 4 BW: 3M 16QAM RB: 1,0	1711.5	19965	V	18.60	8.98	-6.58	21.00	30.00
			H	9.47	8.98	-6.58	11.87	30.00
	1732.5	20175	V	16.10	9.07	-6.62	18.55	30.00
			H	11.58	9.08	-6.62	14.04	30.00
	1753.5	20385	V	16.91	9.16	-6.67	19.40	30.00
			H	10.70	9.16	-6.66	13.20	30.00
LTE BAND 4 BW: 3M 16QAM RB: 1,14	1711.5	19965	V	17.43	8.99	-6.59	19.83	30.00
			H	9.92	8.99	-6.58	12.33	30.00
	1732.5	20175	V	15.87	9.08	-6.63	18.32	30.00
			H	11.25	9.08	-6.63	13.70	30.00
	1753.5	20385	V	16.49	9.17	-6.67	18.99	30.00
			H	10.44	9.17	-6.67	12.94	30.00
Remark : (1)The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz								

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f (886-2) 2298-0488

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE BAND 4 BW: 5M QPSK RB: 1,0	1712.5	19975	V	14.97	8.98	-6.58	17.37	30.00
			H	9.03	8.98	-6.58	11.43	30.00
	1732.5	20175	V	16.32	9.07	-6.62	18.77	30.00
			H	12.51	9.07	-6.62	14.96	30.00
	1752.5	20375	V	17.81	9.15	-6.66	20.30	30.00
			H	10.25	9.15	-6.66	12.74	30.00
LTE BAND 4 BW: 5M QPSK RB: 1,24	1712.5	19975	V	16.23	9.00	-6.59	18.64	30.00
			H	10.53	8.99	-6.59	12.93	30.00
	1732.5	20175	V	15.94	9.09	-6.63	18.40	30.00
			H	12.29	9.09	-6.63	14.75	30.00
	1752.5	20375	V	17.69	9.17	-6.67	20.19	30.00
			H	10.30	9.17	-6.67	12.80	30.00
LTE BAND 4 BW: 5M 16QAM RB: 1,0	1712.5	19975	V	17.36	8.98	-6.58	19.76	30.00
			H	11.43	8.98	-6.58	13.83	30.00
	1732.5	20175	V	16.39	9.07	-6.62	18.84	30.00
			H	12.87	9.07	-6.62	15.32	30.00
	1752.5	20375	V	19.18	9.15	-6.66	21.67	30.00
			H	10.34	9.15	-6.66	12.83	30.00
LTE BAND 4 BW: 5M 16QAM RB: 1,24	1712.5	19975	V	17.16	9.00	-6.59	19.57	30.00
			H	11.75	9.00	-6.59	14.16	30.00
	1732.5	20175	V	18.38	9.09	-6.63	20.84	30.00
			H	12.30	9.09	-6.63	14.76	30.00
	1752.5	20375	V	17.63	9.17	-6.67	20.13	30.00
			H	10.26	9.17	-6.67	12.76	30.00
Remark : (1)The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz								

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE BAND 4 BW: 10M QPSK RB: 1,0	1715.0	20000	V	14.66	8.99	-6.58	17.07	30.00
			H	8.99	8.99	-6.58	11.40	30.00
	1732.0	20175	V	16.00	9.06	-6.62	18.44	30.00
			H	10.73	9.06	-6.62	13.17	30.00
	1750.0	20350	V	16.81	9.13	-6.65	19.29	30.00
			H	10.54	9.13	-6.65	13.02	30.00
LTE BAND 4 BW: 10M QPSK RB: 1,49	1715.0	20000	V	14.39	9.04	-6.61	16.82	30.00
			H	9.22	9.02	-6.60	11.64	30.00
	1732.0	20175	V	16.02	9.10	-6.63	18.49	30.00
			H	10.33	9.10	-6.63	12.80	30.00
	1750.0	20350	V	16.63	9.17	-6.67	19.13	30.00
			H	10.25	9.17	-6.67	12.75	30.00
LTE BAND 4 BW: 10M 16QAM RB: 1,0	1715.0	20000	V	16.12	8.99	-6.58	18.53	30.00
			H	10.31	8.99	-6.58	12.72	30.00
	1732.0	20175	V	16.40	9.06	-6.62	18.84	30.00
			H	10.80	9.06	-6.62	13.24	30.00
	1750.0	20350	V	18.24	9.13	-6.65	20.72	30.00
			H	11.99	9.13	-6.65	14.47	30.00
LTE BAND 4 BW: 10M 16QAM RB: 1,49	1715.0	20000	V	16.00	9.02	-6.60	18.42	30.00
			H	11.12	9.02	-6.60	13.54	30.00
	1732.0	20175	V	17.85	9.10	-6.63	20.32	30.00
			H	12.01	9.10	-6.64	14.47	30.00
	1750.0	20350	V	16.65	9.17	-6.67	19.15	30.00
			H	10.33	9.17	-6.67	12.83	30.00

Remark : (1)The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE BAND 4 BW: 15M QPSK RB: 1,0	1717.5	20025	V	14.81	8.99	-6.58	17.22	30.00
			H	9.25	8.99	-6.58	11.66	30.00
	1732.5	20175	V	13.81	9.05	-6.61	16.25	30.00
			H	8.58	9.05	-6.61	11.02	30.00
	1747.5	20325	V	16.14	9.11	-6.64	18.61	30.00
			H	10.16	9.11	-6.64	12.63	30.00
LTE BAND 4 BW: 15M QPSK RB: 1,74	1717.5	20025	V	13.94	9.04	-6.61	16.37	30.00
			H	8.96	9.04	-6.61	11.39	30.00
	1732.5	20175	V	16.35	9.11	-6.64	18.82	30.00
			H	10.47	9.10	-6.64	12.93	30.00
	1747.5	20325	V	16.56	9.16	-6.67	19.05	30.00
			H	10.31	9.17	-6.67	12.81	30.00
LTE BAND 4 BW: 15M 16QAM RB: 1,0	1717.5	20025	V	16.49	8.99	-6.58	18.90	30.00
			H	9.33	8.99	-6.58	11.74	30.00
	1732.5	20175	V	15.69	9.05	-6.61	18.13	30.00
			H	10.71	9.05	-6.61	13.15	30.00
	1747.5	20325	V	17.41	9.11	-6.64	19.88	30.00
			H	11.53	9.11	-6.64	14.00	30.00
LTE BAND 4 BW: 15M 16QAM RB: 1,74	1717.5	20025	V	15.45	9.04	-6.61	17.88	30.00
			H	10.29	9.04	-6.61	12.72	30.00
	1732.5	20175	V	17.62	9.10	-6.64	20.08	30.00
			H	11.89	9.10	-6.64	14.35	30.00
	1747.5	20325	V	16.83	9.17	-6.67	19.33	30.00
			H	10.62	9.17	-6.67	13.12	30.00
Remark : (1)The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz								

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE BAND 4 BW: 20M QPSK RB: 1,0	1720.0	20050	V	14.67	8.99	-6.58	17.08	30.00
			H	9.34	8.99	-6.58	11.75	30.00
	1732.5	20175	V	13.63	9.04	-6.61	16.06	30.00
			H	10.36	9.04	-6.61	12.79	30.00
	1745.0	20300	V	15.30	9.09	-6.63	17.76	30.00
			H	10.57	9.09	-6.63	13.03	30.00
LTE BAND 4 BW: 20M QPSK RB: 1,99	1720.0	20050	V	13.40	9.06	-6.62	15.84	30.00
			H	10.83	9.06	-6.62	13.27	30.00
	1732.5	20175	V	15.55	9.12	-6.64	18.03	30.00
			H	10.15	9.11	-6.64	12.62	30.00
	1745.0	20300	V	15.45	9.16	-6.67	17.94	30.00
			H	10.39	9.17	-6.67	12.89	30.00
LTE BAND 4 BW: 20M 16QAM RB: 1,0	1720.0	20050	V	14.81	8.99	-6.58	17.22	30.00
			H	9.61	8.99	-6.58	12.02	30.00
	1732.5	20175	V	15.17	9.04	-6.61	17.60	30.00
			H	10.79	9.04	-6.61	13.22	30.00
	1745.0	20300	V	16.39	9.08	-6.63	18.84	30.00
			H	10.64	9.09	-6.63	13.10	30.00
LTE BAND 4 BW: 20M 16QAM RB: 1,99	1720.0	20050	V	15.29	9.06	-6.62	17.73	30.00
			H	10.86	9.06	-6.62	13.30	30.00
	1732.5	20175	V	15.61	9.11	-6.64	18.08	30.00
			H	10.20	9.11	-6.64	12.67	30.00
	1745.0	20300	V	15.93	9.16	-6.67	18.42	30.00
			H	10.92	9.17	-6.67	13.42	30.00

Remark : (1)The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
LTE BAND 5 BW: 1.4M QPSK RB: 1,0	824.7	20407	V	22.01	5.14	-4.18	22.97	38.45
			H	18.88	5.14	-4.18	19.84	38.45
	836.5	20525	V	21.58	5.10	-4.22	22.46	38.45
			H	17.72	5.10	-4.22	18.60	38.45
	848.3	20643	V	20.27	5.06	-4.26	21.07	38.45
			H	15.43	5.06	-4.26	16.23	38.45
LTE BAND 5 BW: 1.4M QPSK RB: 1,5	824.7	20407	V	22.62	5.13	-4.18	23.57	38.45
			H	19.47	5.13	-4.18	20.42	38.45
	836.5	20525	V	21.32	5.09	-4.23	22.18	38.45
			H	17.45	5.10	-4.23	18.32	38.45
	848.3	20643	V	20.51	5.06	-4.26	21.31	38.45
			H	15.57	5.06	-4.27	16.36	38.45
LTE BAND 5 BW: 1.4M 16QAM RB: 1,0	824.7	20407	V	22.00	5.14	-4.18	22.96	38.45
			H	18.89	5.14	-4.18	19.85	38.45
	836.5	20525	V	21.56	5.10	-4.22	22.44	38.45
			H	17.77	5.10	-4.22	18.65	38.45
	848.3	20643	V	20.33	5.06	-4.26	21.13	38.45
			H	15.50	5.06	-4.26	16.30	38.45
LTE BAND 5 BW: 1.4M 16QAM RB: 1,5	824.7	20407	V	22.55	5.13	-4.18	23.50	38.45
			H	19.42	5.13	-4.18	20.37	38.45
	836.5	20525	V	21.35	5.10	-4.23	22.22	38.45
			H	17.50	5.09	-4.23	18.36	38.45
	848.3	20643	V	20.43	5.06	-4.26	21.23	38.45
			H	15.54	5.06	-4.26	16.34	38.45
Remark : (1)The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz								

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Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit	
	MHz		V/H	dBm	dBd	dB	dBm	dBm	
LTE BAND 5 BW: 3M QPSK RB: 1,0	825.5	20415	V	22.00	5.14	-4.18	22.96	38.45	
			H	18.89	5.14	-4.18	19.85	38.45	
	836.5	20525	V	21.81	5.10	-4.22	22.69	38.45	
			H	18.10	5.10	-4.22	18.98	38.45	
	847.5	20635	V	21.52	5.06	-4.26	22.32	38.45	
			H	16.83	5.06	-4.26	17.63	38.45	
LTE BAND 5 BW: 3M QPSK RB: 1,14	825.5	20415	V	21.97	5.14	-4.18	22.93	38.45	
			H	20.41	5.13	-4.19	21.35	38.45	
	836.5	20525	V	21.80	5.10	-4.22	22.68	38.45	
			H	17.39	5.09	-4.23	18.25	38.45	
	847.5	20635	V	21.52	5.07	-4.26	22.33	38.45	
			H	15.70	5.06	-4.27	16.49	38.45	
	LTE BAND 5 BW: 3M 16QAM RB: 1,0	825.5	20415	V	23.61	5.13	-4.19	24.55	38.45
				H	18.92	5.14	-4.18	19.88	38.45
836.5		20525	V	21.83	5.10	-4.22	22.71	38.45	
			H	18.14	5.10	-4.22	19.02	38.45	
847.5		20635	V	21.63	5.07	-4.26	22.44	38.45	
			H	16.89	5.07	-4.26	17.70	38.45	
LTE BAND 5 BW: 3M 16QAM RB: 1,14		825.5	20415	V	23.56	5.13	-4.19	24.50	38.45
				H	20.38	5.13	-4.19	21.32	38.45
	836.5	20525	V	21.32	5.09	-4.23	22.18	38.45	
			H	17.41	5.09	-4.23	18.27	38.45	
	847.5	20635	V	20.46	5.06	-4.26	21.26	38.45	
			H	15.59	5.05	-4.27	16.37	38.45	
Remark : (1)The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz									

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f (886-2) 2298-0488

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
LTE BAND 5 BW: 5M QPSK RB: 1,0	826.5	20425	V	22.08	5.14	-4.18	23.04	38.45
			H	20.82	5.14	-4.18	21.78	38.45
	836.5	20525	V	22.21	5.10	-4.22	23.09	38.45
			H	19.88	5.10	-4.22	20.76	38.45
	846.5	20625	V	22.29	5.07	-4.25	23.11	38.45
			H	18.94	5.07	-4.25	19.76	38.45
LTE BAND 5 BW: 5M QPSK RB: 1,24	826.5	20425	V	23.18	5.12	-4.19	24.11	38.45
			H	21.28	5.12	-4.19	22.21	38.45
	836.5	20525	V	21.55	5.09	-4.23	22.41	38.45
			H	21.28	5.12	-4.19	22.21	38.45
	846.5	20625	V	20.44	5.06	-4.26	21.24	38.45
			H	17.13	5.06	-4.26	17.93	38.45
LTE BAND 5 BW: 5M 16QAM RB: 1,0	826.5	20425	V	22.03	5.14	-4.18	22.99	38.45
			H	20.56	5.14	-4.18	21.52	38.45
	836.5	20525	V	22.29	5.10	-4.22	23.17	38.45
			H	19.94	5.10	-4.22	20.82	38.45
	846.5	20625	V	22.39	5.07	-4.25	23.21	38.45
			H	19.04	5.07	-4.25	19.86	38.45
LTE BAND 5 BW: 5M 16QAM RB: 1,24	826.5	20425	V	23.25	5.12	-4.20	24.17	38.45
			H	21.36	5.12	-4.19	22.29	38.45
	836.5	20525	V	21.53	5.09	-4.23	22.39	38.45
			H	18.62	5.09	-4.23	19.48	38.45
	846.5	20625	V	20.40	5.06	-4.26	21.20	38.45
			H	17.10	5.05	-4.27	17.88	38.45
Remark : (1)The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz								

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
LTE BAND 5 BW: 10M QPSK RB: 1,0	829.0	20450	V	19.34	5.13	-4.18	20.29	38.45
			H	20.64	5.14	-4.18	21.60	38.45
	836.5	20525	V	20.37	5.11	-4.21	21.27	38.45
			H	21.42	5.11	-4.21	22.32	38.45
	844.0	20600	V	18.46	5.09	-4.24	19.31	38.45
			H	19.06	5.09	-4.24	19.91	38.45
LTE BAND 5 BW: 10M QPSK RB: 1,49	829.0	20450	V	19.51	5.11	-4.21	20.41	38.45
			H	20.37	5.11	-4.21	21.27	38.45
	836.5	20525	V	19.02	5.08	-4.24	19.86	38.45
			H	19.60	5.08	-4.24	20.44	38.45
	844.0	20600	V	16.72	5.06	-4.26	17.52	38.45
			H	17.02	5.06	-4.26	17.82	38.45
LTE BAND 5 BW: 10M 16QAM RB: 1,0	829.0	20450	V	19.32	5.13	-4.18	20.27	38.45
			H	20.68	5.13	-4.18	21.63	38.45
	836.5	20525	V	19.11	5.11	-4.21	20.01	38.45
			H	21.36	5.11	-4.21	22.26	38.45
	844.0	20600	V	18.34	5.08	-4.24	19.18	38.45
			H	18.96	5.09	-4.24	19.81	38.45
LTE BAND 5 BW: 10M 16QAM RB: 1,49	829.0	20450	V	19.60	5.11	-4.21	20.50	38.45
			H	20.42	5.11	-4.21	21.32	38.45
	836.5	20525	V	18.98	5.08	-4.24	19.82	38.45
			H	19.57	5.08	-4.24	20.41	38.45
	844.0	20600	V	16.68	5.06	-4.26	17.48	38.45
			H	16.95	5.06	-4.26	17.75	38.45

Remark : (1)The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE BAND 7 BW: 5M QPSK RB: 1,0	2502.5	20775	V	19.94	10.70	-7.83	22.81	33.01
			H	10.73	10.70	-7.83	13.60	33.01
	2535.0	21100	V	19.95	10.74	-7.87	22.82	33.01
			H	11.87	10.74	-7.87	14.74	33.01
	2567.5	21425	V	20.60	10.78	-7.90	23.48	33.01
			H	11.81	10.78	-7.90	14.69	33.01
LTE BAND 7 BW: 5M QPSK RB: 1,24	2502.5	20775	V	20.52	10.71	-7.83	23.40	33.01
			H	11.31	10.71	-7.84	14.18	33.01
	2535.0	21100	V	20.70	10.74	-7.87	23.57	33.01
			H	12.40	10.74	-7.87	15.27	33.01
	2567.5	21425	V	21.14	10.78	-7.91	24.01	33.01
			H	12.09	10.78	-7.91	14.96	33.01
LTE BAND 7 BW: 5M 16QAM RB: 1,0	2502.5	20775	V	19.79	10.70	-7.83	22.66	33.01
			H	10.80	10.70	-7.83	13.67	33.01
	2535.0	21100	V	20.03	10.74	-7.87	22.90	33.01
			H	12.26	10.74	-7.87	15.13	33.01
	2567.5	21425	V	20.65	10.78	-7.90	23.53	33.01
			H	12.18	10.78	-7.90	15.06	33.01
LTE BAND 7 BW: 5M 16QAM RB: 1,24	2502.5	20775	V	20.58	10.71	-7.83	23.46	33.01
			H	11.35	10.71	-7.84	14.22	33.01
	2535.0	21100	V	20.76	10.74	-7.87	23.63	33.01
			H	12.39	10.75	-7.87	15.27	33.01
	2567.5	21425	V	21.24	10.78	-7.91	24.11	33.01
			H	12.15	10.78	-7.91	15.02	33.01
Remark : (1)The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz								

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE BAND 7 BW: 10M QPSK RB: 1,0	2505.0	20800	V	20.64	10.70	-7.83	23.51	33.01
			H	10.74	10.70	-7.83	13.61	33.01
	2535.0	21100	V	19.14	10.74	-7.86	22.02	33.01
			H	12.18	10.74	-7.86	15.06	33.01
	2565.0	21400	V	19.70	10.77	-7.90	22.57	33.01
			H	12.23	10.77	-7.90	15.10	33.01
LTE BAND 7 BW: 10M QPSK RB: 1,49	2505.0	20800	V	20.69	10.71	-7.84	23.56	33.01
			H	10.87	10.70	-7.83	13.74	33.01
	2535.0	21100	V	20.60	10.75	-7.87	23.48	33.01
			H	12.66	10.75	-7.87	15.54	33.01
	2565.0	21400	V	20.72	10.78	-7.91	23.59	33.01
			H	12.16	10.78	-7.91	15.03	33.01
LTE BAND 7 BW: 10M 16QAM RB: 1,0	2505.0	20800	V	20.86	10.70	-7.83	23.73	33.01
			H	11.73	10.70	-7.83	14.60	33.01
	2535.0	21100	V	19.29	10.74	-7.86	22.17	33.01
			H	12.31	10.74	-7.86	15.19	33.01
	2565.0	21400	V	19.87	10.77	-7.90	22.74	33.01
			H	12.23	10.77	-7.90	15.10	33.01
LTE BAND 7 BW: 10M 16QAM RB: 1,49	2505.0	20800	V	20.73	10.71	-7.84	23.60	33.01
			H	12.02	10.71	-7.84	14.89	33.01
	2535.0	21100	V	20.66	10.75	-7.87	23.54	33.01
			H	12.76	10.75	-7.87	15.64	33.01
	2565.0	21400	V	20.87	10.78	-7.91	23.74	33.01
			H	12.24	10.78	-7.91	15.11	33.01

Remark : (1)The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE BAND 7 BW: 15M QPSK RB: 1,0	2507.5	20825	V	19.68	10.70	-7.83	22.55	33.01
			H	10.77	10.70	-7.83	13.64	33.01
	2535.0	21100	V	19.73	10.74	-7.87	22.60	33.01
			H	12.19	10.74	-7.87	15.06	33.01
	2562.5	21375	V	20.50	10.78	-7.90	23.38	33.01
			H	12.11	10.78	-7.90	14.99	33.01
LTE BAND 7 BW: 15M QPSK RB: 1,74	2507.5	20825	V	20.50	10.71	-7.84	23.37	33.01
			H	11.36	10.71	-7.84	14.23	33.01
	2535.0	21100	V	20.59	10.74	-7.87	23.46	33.01
			H	12.44	10.74	-7.87	15.31	33.01
	2562.5	21375	V	21.00	10.78	-7.91	23.87	33.01
			H	12.08	10.78	-7.91	14.95	33.01
LTE BAND 7 BW: 15M 16QAM RB: 1,0	2507.5	20825	V	19.80	10.70	-7.83	22.67	33.01
			H	10.79	10.70	-7.83	13.66	33.01
	2535.0	21100	V	19.91	10.74	-7.87	22.78	33.01
			H	12.37	10.74	-7.87	15.24	33.01
	2562.5	21375	V	20.53	10.78	-7.90	23.41	33.01
			H	12.19	10.78	-7.90	15.07	33.01
LTE BAND 7 BW: 15M 16QAM RB: 1,74	2507.5	20825	V	20.53	10.71	-7.84	23.40	33.01
			H	11.47	10.71	-7.84	14.34	33.01
	2535.0	21100	V	20.64	10.74	-7.87	23.51	33.01
			H	12.51	10.74	-7.87	15.38	33.01
	2562.5	21375	V	21.08	10.78	-7.91	23.95	33.01
			H	12.19	10.78	-7.91	15.06	33.01

Remark : (1) The RBW, VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE BAND 7 BW: 20M QPSK RB: 1,0	2510.0	20850	V	19.78	10.70	-7.83	22.65	33.01
			H	11.36	10.70	-7.83	14.23	33.01
	2535.0	21100	V	19.48	10.73	-7.86	22.35	33.01
			H	13.04	10.73	-7.86	15.91	33.01
	2560.0	21350	V	19.93	10.76	-7.89	22.80	33.01
			H	12.03	10.76	-7.89	14.90	33.01
LTE BAND 7 BW: 20M QPSK RB: 1,99	2510.0	20850	V	19.66	10.72	-7.85	22.53	33.01
			H	12.17	10.72	-7.85	15.04	33.01
	2535.0	21100	V	20.01	10.75	-7.88	22.88	33.01
			H	12.06	10.75	-7.88	14.93	33.01
	2560.0	21350	V	20.94	10.78	-7.91	23.81	33.01
			H	12.46	10.78	-7.91	15.33	33.01
LTE BAND 7 BW: 20M 16QAM RB: 1,0	2510.0	20850	V	19.89	10.70	-7.83	22.76	33.01
			H	11.37	10.70	-7.83	14.24	33.01
	2535.0	21100	V	19.59	10.73	-7.86	22.46	33.01
			H	13.07	10.73	-7.86	15.94	33.01
	2560.0	21350	V	19.99	10.76	-7.89	22.86	33.01
			H	12.04	10.76	-7.89	14.91	33.01
LTE BAND 7 BW: 20M 16QAM RB: 1,99	2510.0	20850	V	19.70	10.72	-7.85	22.57	33.01
			H	12.19	10.72	-7.85	15.06	33.01
	2535.0	21100	V	20.07	10.75	-7.88	22.94	33.01
			H	12.08	10.75	-7.88	14.95	33.01
	2560.0	21350	V	19.54	10.78	-7.91	22.41	33.01
			H	11.04	10.78	-7.91	13.91	33.01

Remark : (1)The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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f (886-2) 2298-0488

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EUT			Measurement						
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit	
	MHz		V/H	dBm	dBd	dB	dBm	dBm	
LTE BAND 12 BW: 1.4M QPSK RB: 1,0	699.7	23017	V	23.79	5.05	-3.82	25.02	24.77	
			H	16.61	5.05	-3.82	17.84	24.77	
	707.5	23095	V	22.57	5.07	-3.84	23.80	24.77	
			H	16.14	5.07	-3.84	17.37	24.77	
	715.3	23173	V	22.55	5.09	-3.86	23.78	24.77	
			H	15.08	5.09	-3.87	16.30	24.77	
LTE BAND 12 BW: 1.4M QPSK RB: 1,5	699.7	23017	V	24.25	5.06	-3.82	25.49	24.77	
			H	17.27	5.06	-3.82	18.51	24.77	
	707.5	23095	V	22.66	5.08	-3.84	23.90	24.77	
			H	16.20	5.08	-3.84	17.44	24.77	
	715.3	23173	V	21.76	5.09	-3.87	22.98	24.77	
			H	14.34	5.09	-3.87	15.56	24.77	
	LTE BAND 12 BW: 1.4M 16QAM RB: 1,0	699.7	23017	V	23.62	5.05	-3.82	24.85	24.77
				H	16.63	5.05	-3.82	17.86	24.77
707.5		23095	V	22.48	5.07	-3.84	23.71	24.77	
			H	16.14	5.07	-3.84	17.37	24.77	
715.3		23173	V	22.63	5.09	-3.86	23.86	24.77	
			H	15.19	5.09	-3.87	16.41	24.77	
LTE BAND 12 BW: 1.4M 16QAM RB: 1,5		699.7	23017	V	24.24	5.06	-3.82	25.48	24.77
				H	17.30	5.06	-3.82	18.54	24.77
	707.5	23095	V	22.54	5.08	-3.84	23.78	24.77	
			H	16.17	5.08	-3.84	17.41	24.77	
	715.3	23173	V	21.87	5.09	-3.87	23.09	24.77	
			H	14.54	5.09	-3.87	15.76	24.77	

Remark : (1)The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
LTE BAND 12 BW: 3M QPSK RB: 1,0	700.5	23025	V	23.33	5.05	-3.82	24.56	24.77
			H	16.64	5.05	-3.82	17.87	24.77
	707.5	23095	V	21.81	5.07	-3.84	23.04	24.77
			H	16.29	5.07	-3.84	17.52	24.77
	714.5	23165	V	22.48	5.09	-3.86	23.71	24.77
			H	16.58	5.09	-3.86	17.81	24.77
LTE BAND 12 BW: 3M QPSK RB: 1,14	700.5	23025	V	23.23	5.06	-3.82	24.47	24.77
			H	16.94	5.06	-3.82	18.18	24.77
	707.5	23095	V	21.78	5.08	-3.85	23.01	24.77
			H	16.29	5.08	-3.85	17.52	24.77
	714.5	23165	V	20.17	5.09	-3.87	21.39	24.77
			H	14.13	5.09	-3.87	15.35	24.77
LTE BAND 12 BW: 3M 16QAM RB: 1,0	700.5	23025	V	23.30	5.05	-3.82	24.53	24.77
			H	16.58	5.05	-3.82	17.81	24.77
	707.5	23095	V	21.79	5.07	-3.84	23.02	24.77
			H	16.24	5.07	-3.84	17.47	24.77
	714.5	23165	V	22.47	5.09	-3.86	23.70	24.77
			H	16.36	5.09	-3.86	17.59	24.77
LTE BAND 12 BW: 3M 16QAM RB: 1,14	700.5	23025	V	23.22	5.06	-3.82	24.46	24.77
			H	16.85	5.06	-3.83	18.08	24.77
	707.5	23095	V	21.74	5.08	-3.85	22.97	24.77
			H	16.30	5.08	-3.85	17.53	24.77
	714.5	23165	V	20.41	5.09	-3.87	21.63	24.77
			H	14.46	5.09	-3.87	15.68	24.77
Remark : (1)The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz								

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
LTE BAND 12 BW: 5M QPSK RB: 1,0	701.5	23035	V	23.36	5.05	-3.82	24.59	24.77
			H	16.68	5.05	-3.82	17.91	24.77
	707.5	23095	V	21.95	5.07	-3.84	23.18	24.77
			H	16.32	5.07	-3.84	17.55	24.77
	713.5	23155	V	22.59	5.08	-3.86	23.81	24.77
			H	16.93	5.08	-3.85	18.16	24.77
LTE BAND 12 BW: 5M QPSK RB: 1,24	701.5	23035	V	22.30	5.07	-3.83	23.54	24.77
			H	16.45	5.07	-3.83	17.69	24.77
	707.5	23095	V	22.07	5.08	-3.85	23.30	24.77
			H	16.55	5.08	-3.85	17.78	24.77
	713.5	23155	V	20.30	5.09	-3.87	21.52	24.77
			H	14.43	5.09	-3.87	15.65	24.77
LTE BAND 12 BW: 5M 16QAM RB: 1,0	701.5	23035	V	23.36	5.06	-3.82	24.60	24.77
			H	16.62	5.05	-3.82	17.85	24.77
	707.5	23095	V	21.98	5.07	-3.84	23.21	24.77
			H	16.40	5.07	-3.84	17.63	24.77
	713.5	23155	V	22.61	5.08	-3.85	23.84	24.77
			H	16.80	5.08	-3.86	18.02	24.77
LTE BAND 12 BW: 5M 16QAM RB: 1,24	701.5	23035	V	22.33	5.07	-3.83	23.57	24.77
			H	16.63	5.06	-3.82	17.87	24.77
	707.5	23095	V	22.02	5.08	-3.85	23.25	24.77
			H	16.40	5.07	-3.84	17.63	24.77
	713.5	23155	V	20.48	5.09	-3.87	21.70	24.77
			H	16.82	5.08	-3.86	18.04	24.77
Remark : (1)The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz								

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
LTE BAND 12 BW: 10M QPSK RB: 1,0	704.0	23060	V	17.98	5.05	-3.82	19.21	24.77
			H	16.74	5.06	-3.82	17.98	24.77
	707.5	23095	V	22.16	5.07	-3.83	23.40	24.77
			H	16.42	5.07	-3.83	17.66	24.77
	711.0	23130	V	21.35	5.07	-3.84	22.58	24.77
			H	16.12	5.07	-3.84	17.35	24.77
LTE BAND 12 BW: 10M QPSK RB: 1,49	704.0	23060	V	21.34	5.08	-3.84	22.58	24.77
			H	16.17	5.08	-3.84	17.41	24.77
	707.5	23095	V	22.14	5.08	-3.86	23.36	24.77
			H	16.68	5.08	-3.86	17.90	24.77
	711.0	23130	V	20.39	5.09	-3.87	21.61	24.77
			H	14.58	5.09	-3.87	15.80	24.77
LTE BAND 12 BW: 10M 16QAM RB: 1,0	704.0	23060	V	23.09	5.05	-3.82	24.32	24.77
			H	16.75	5.06	-3.82	17.99	24.77
	707.5	23095	V	22.32	5.07	-3.83	23.56	24.77
			H	16.57	5.07	-3.83	17.81	24.77
	711.0	23130	V	21.40	5.07	-3.84	22.63	24.77
			H	16.18	5.07	-3.84	17.41	24.77
LTE BAND 12 BW: 10M 16QAM RB: 1,49	704.0	23060	V	21.37	5.08	-3.85	22.60	24.77
			H	16.17	5.08	-3.85	17.40	24.77
	707.5	23095	V	22.12	5.09	-3.86	23.35	24.77
			H	16.68	5.08	-3.85	17.91	24.77
	711.0	23130	V	20.44	5.09	-3.87	21.66	24.77
			H	14.78	5.09	-3.87	16.00	24.77

Remark : (1)The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
LTE BAND 13 BW: 5M QPSK RB: 1,0	779.5	23205	V	24.03	5.19	-4.04	25.18	34.77
			H	21.23	5.19	-4.04	22.38	34.77
	782.0	23230	V	24.46	5.19	-4.05	25.60	34.77
			H	21.87	5.20	-4.05	23.02	34.77
	784.5	23255	V	23.91	5.20	-4.05	25.06	34.77
			H	21.35	5.20	-4.06	22.49	34.77
LTE BAND 13 BW: 5M QPSK RB: 1,24	779.5	23205	V	24.12	5.20	-4.05	25.27	34.77
			H	21.47	5.20	-4.06	22.61	34.77
	782.0	23230	V	23.87	5.20	-4.06	25.01	34.77
			H	20.16	5.20	-4.06	21.30	34.77
	784.5	23255	V	23.38	5.20	-4.07	24.51	34.77
			H	21.29	5.20	-4.08	22.41	34.77
LTE BAND 13 BW: 5M 16QAM RB: 1,0	779.5	23205	V	23.95	5.19	-4.04	25.10	34.77
			H	21.17	5.19	-4.04	22.32	34.77
	782.0	23230	V	24.58	5.20	-4.05	25.73	34.77
			H	22.02	5.20	-4.05	23.17	34.77
	784.5	23255	V	24.10	5.20	-4.06	25.24	34.77
			H	21.59	5.20	-4.06	22.73	34.77
LTE BAND 13 BW: 5M 16QAM RB: 1,24	779.5	23205	V	24.35	5.20	-4.06	25.49	34.77
			H	21.68	5.20	-4.06	22.82	34.77
	782.0	23230	V	24.09	5.20	-4.06	25.23	34.77
			H	21.75	5.20	-4.06	22.89	34.77
	784.5	23255	V	23.46	5.20	-4.07	24.59	34.77
			H	21.34	5.20	-4.07	22.47	34.77
Remark : (1)The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz								

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
LTE BAND 13 BW: 10M QPSK RB: 1,0	782.0	23230	V	23.90	5.19	-4.04	25.05	34.77
			H	21.38	5.19	-4.04	22.53	34.77
LTE BAND 13 BW: 10M QPSK RB: 1,49	782.0	23230	V	23.48	5.20	-4.07	24.61	34.77
			H	21.22	5.20	-4.07	22.35	34.77
LTE BAND 13 BW: 10M 16QAM RB: 1,0	782.0	23230	V	24.21	5.19	-4.04	25.36	34.77
			H	21.44	5.19	-4.04	22.59	34.77
LTE BAND 13 BW: 10M 16QAM RB: 1,49	782.0	23230	V	23.36	5.20	-4.07	24.49	34.77
			H	21.11	5.20	-4.07	22.24	34.77

Remark : (1) The RBW, VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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f (886-2) 2298-0488

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE BAND 25 BW: 1.4M QPSK RB: 1,0	1850.7	26047	V	20.15	9.57	-6.86	22.86	33.01
			H	13.45	9.57	-6.86	16.16	33.01
	1882.5	26365	V	21.40	9.71	-6.92	24.19	33.01
			H	9.42	9.71	-6.92	12.21	33.01
	1914.3	26683	V	20.62	9.84	-6.98	23.48	33.01
			H	10.09	9.84	-6.98	12.95	33.01
LTE BAND 25 BW: 1.4M QPSK RB: 1,5	1850.7	26047	V	21.78	9.58	-6.86	24.50	33.01
			H	13.50	9.57	-6.86	16.21	33.01
	1882.5	26365	V	21.28	9.71	-6.92	24.07	33.01
			H	9.18	9.71	-6.92	11.97	33.01
	1914.3	26683	V	19.71	9.84	-6.98	22.57	33.01
			H	9.13	9.84	-6.98	11.99	33.01
LTE BAND 25 BW: 1.4M 16QAM RB: 1,0	1850.7	26047	V	20.20	9.57	-6.86	22.91	33.01
			H	11.78	9.57	-6.86	14.49	33.01
	1882.5	26365	V	21.44	9.70	-6.92	24.22	33.01
			H	9.45	9.71	-6.92	12.24	33.01
	1914.3	26683	V	20.64	9.84	-6.98	23.50	33.01
			H	10.04	9.84	-6.98	12.90	33.01
LTE BAND 25 BW: 1.4M 16QAM RB: 1,5	1850.7	26047	V	20.00	9.58	-6.86	22.72	33.01
			H	13.28	9.58	-6.86	16.00	33.01
	1882.5	26365	V	21.34	9.71	-6.92	24.13	33.01
			H	9.21	9.71	-6.92	12.00	33.01
	1914.3	26683	V	20.00	9.84	-6.98	22.86	33.01
			H	9.52	9.84	-6.98	12.38	33.01
Remark : (1)The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz								

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f (886-2) 2298-0488

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE BAND 25 BW: 3M QPSK RB: 1,0	1851.5	26055	V	20.01	9.57	-6.86	22.72	33.01
			H	12.28	9.57	-6.86	14.99	33.01
	1882.5	26365	V	20.18	9.70	-6.91	22.97	33.01
			H	10.20	9.70	-6.91	12.99	33.01
	1913.5	26675	V	20.81	9.83	-6.97	23.67	33.01
			H	10.20	9.83	-6.97	13.06	33.01
LTE BAND 25 BW: 3M QPSK RB: 1,14	1851.5	26055	V	21.27	9.58	-6.86	23.99	33.01
			H	13.06	9.58	-6.86	15.78	33.01
	1882.5	26365	V	19.82	9.71	-6.92	22.61	33.01
			H	9.63	9.71	-6.92	12.42	33.01
	1913.5	26675	V	19.40	9.84	-6.98	22.26	33.01
			H	9.46	9.84	-6.98	12.32	33.01
LTE BAND 25 BW: 3M 16QAM RB: 1,0	1851.5	26055	V	20.09	9.57	-6.86	22.80	33.01
			H	13.81	9.57	-6.86	16.52	33.01
	1882.5	26365	V	20.24	9.70	-6.91	23.03	33.01
			H	10.23	9.70	-6.92	13.01	33.01
	1913.5	26675	V	20.68	9.83	-6.97	23.54	33.01
			H	10.08	9.83	-6.97	12.94	33.01
LTE BAND 25 BW: 3M 16QAM RB: 1,14	1851.5	26055	V	21.48	9.57	-6.86	24.19	33.01
			H	13.11	9.58	-6.86	15.83	33.01
	1882.5	26365	V	19.87	9.71	-6.92	22.66	33.01
			H	9.65	9.71	-6.92	12.44	33.01
	1913.5	26675	V	19.70	9.84	-6.98	22.56	33.01
			H	9.62	9.84	-6.98	12.48	33.01

Remark : (1) The RBW, VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE BAND 25 BW: 5M QPSK RB: 1,0	1852.5	26065	V	19.30	9.57	-6.86	22.01	33.01
			H	12.48	9.57	-6.86	15.19	33.01
	1882.5	26365	V	20.91	9.70	-6.91	23.70	33.01
			H	10.33	9.70	-6.91	13.12	33.01
	1912.5	26665	V	20.21	9.82	-6.97	23.06	33.01
			H	9.06	9.82	-6.97	11.91	33.01
LTE BAND 25 BW: 5M QPSK RB: 1,24	1852.5	26065	V	19.38	9.59	-6.86	22.11	33.01
			H	12.91	9.59	-6.86	15.64	33.01
	1882.5	26365	V	20.53	9.72	-6.92	23.33	33.01
			H	9.31	9.72	-6.92	12.11	33.01
	1912.5	26665	V	19.64	9.84	-6.98	22.50	33.01
			H	9.04	9.84	-6.98	11.90	33.01
LTE BAND 25 BW: 5M 16QAM RB: 1,0	1852.5	26065	V	18.03	9.57	-6.86	20.74	33.01
			H	12.53	9.57	-6.86	15.24	33.01
	1882.5	26365	V	21.01	9.70	-6.91	23.80	33.01
			H	10.37	9.70	-6.91	13.16	33.01
	1912.5	26665	V	20.24	9.82	-6.97	23.09	33.01
			H	9.05	9.82	-6.97	11.90	33.01
LTE BAND 25 BW: 5M 16QAM RB: 1,24	1852.5	26065	V	19.53	9.59	-6.86	22.26	33.01
			H	12.92	9.59	-6.86	15.65	33.01
	1882.5	26365	V	20.60	9.72	-6.92	23.40	33.01
			H	9.38	9.72	-6.92	12.18	33.01
	1912.5	26665	V	19.87	9.84	-6.98	22.73	33.01
			H	9.07	9.84	-6.98	11.93	33.01

Remark : (1) The RBW, VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE BAND 25 BW: 10M QPSK RB: 1,0	1855.0	26090	V	19.04	9.57	-6.86	21.75	33.01
			H	13.65	9.57	-6.86	16.36	33.01
	1882.5	26365	V	21.04	9.69	-6.91	23.82	33.01
			H	10.84	9.69	-6.91	13.62	33.01
	1910.0	26640	V	17.51	9.80	-6.96	20.35	33.01
			H	8.76	9.80	-6.96	11.60	33.01
LTE BAND 25 BW: 10M QPSK RB: 1,49	1855.0	26090	V	19.74	9.61	-6.87	22.48	33.01
			H	11.96	9.61	-6.87	14.70	33.01
	1882.5	26365	V	20.00	9.72	-6.92	22.80	33.01
			H	9.14	9.72	-6.93	11.93	33.01
	1910.0	26640	V	20.11	9.84	-6.98	22.97	33.01
			H	8.84	9.84	-6.98	11.70	33.01
LTE BAND 25 BW: 10M 16QAM RB: 1,0	1855.0	26090	V	17.75	9.57	-6.86	20.46	33.01
			H	12.41	9.57	-6.86	15.12	33.01
	1882.5	26365	V	21.09	9.69	-6.91	23.87	33.01
			H	11.00	9.69	-6.91	13.78	33.01
	1910.0	26640	V	20.05	9.81	-6.96	22.90	33.01
			H	8.43	9.80	-6.96	11.27	33.01
LTE BAND 25 BW: 10M 16QAM RB: 1,49	1855.0	26090	V	19.66	9.61	-6.88	22.39	33.01
			H	12.03	9.61	-6.87	14.77	33.01
	1882.5	26365	V	20.44	9.72	-6.92	23.24	33.01
			H	9.16	9.73	-6.93	11.96	33.01
	1910.0	26640	V	20.09	9.84	-6.98	22.95	33.01
			H	9.01	9.84	-6.98	11.87	33.01
Remark : (1)The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz								

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE BAND 25 BW: 15M QPSK RB: 1,0	1857.5	26115	V	17.61	9.57	-6.86	20.32	33.01
			H	13.57	9.57	-6.86	16.28	33.01
	1882.5	26365	V	16.47	9.68	-6.90	19.25	33.01
			H	11.02	9.68	-6.90	13.80	33.01
	1907.5	26615	V	20.11	9.78	-6.95	22.94	33.01
			H	5.71	9.78	-6.95	8.54	33.01
LTE BAND 25 BW: 15M QPSK RB: 1,74	1857.5	26115	V	19.60	9.63	-6.88	22.35	33.01
			H	11.38	9.63	-6.88	14.13	33.01
	1882.5	26365	V	20.80	9.74	-6.93	23.61	33.01
			H	9.24	9.74	-6.93	12.05	33.01
	1907.5	26615	V	20.04	9.84	-6.98	22.90	33.01
			H	9.04	9.84	-6.98	11.90	33.01
LTE BAND 25 BW: 15M 16QAM RB: 1,0	1857.5	26115	V	17.70	9.57	-6.86	20.41	33.01
			H	12.34	9.57	-6.86	15.05	33.01
	1882.5	26365	V	21.16	9.68	-6.90	23.94	33.01
			H	11.15	9.68	-6.90	13.93	33.01
	1907.5	26615	V	20.15	9.78	-6.95	22.98	33.01
			H	8.34	9.78	-6.95	11.17	33.01
LTE BAND 25 BW: 15M 16QAM RB: 1,74	1857.5	26115	V	19.63	9.63	-6.88	22.38	33.01
			H	11.37	9.63	-6.88	14.12	33.01
	1882.5	26365	V	20.92	9.74	-6.93	23.73	33.01
			H	9.26	9.73	-6.93	12.06	33.01
	1907.5	26615	V	20.17	9.84	-6.98	23.03	33.01
			H	9.10	9.84	-6.98	11.96	33.01

Remark : (1)The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE BAND 25 BW: 20M QPSK RB: 1,0	1860.0	26140	V	17.80	9.58	-6.86	20.52	33.01
			H	12.12	9.58	-6.86	14.84	33.01
	1882.5	26365	V	20.33	9.67	-6.90	23.10	33.01
			H	7.71	9.67	-6.90	10.48	33.01
	1905.0	26590	V	18.79	9.77	-6.94	21.62	33.01
			H	9.66	9.76	-6.94	12.48	33.01
LTE BAND 25 BW: 20M QPSK RB: 1,99	1860.0	26140	V	20.31	9.65	-6.89	23.07	33.01
			H	11.08	9.65	-6.89	13.84	33.01
	1882.5	26365	V	19.79	9.75	-6.93	22.61	33.01
			H	7.94	9.74	-6.93	10.75	33.01
	1905.0	26590	V	19.96	9.84	-6.98	22.82	33.01
			H	8.91	9.84	-6.98	11.77	33.01
LTE BAND 25 BW: 20M 16QAM RB: 1,0	1860.0	26140	V	17.89	9.58	-6.86	20.61	33.01
			H	12.16	9.57	-6.86	14.87	33.01
	1882.5	26365	V	20.41	9.67	-6.90	23.18	33.01
			H	10.71	9.67	-6.90	13.48	33.01
	1905.0	26590	V	21.07	9.76	-6.94	23.89	33.01
			H	9.35	9.76	-6.94	12.17	33.01
LTE BAND 25 BW: 20M 16QAM RB: 1,99	1860.0	26140	V	20.30	9.65	-6.89	23.06	33.01
			H	11.18	9.65	-6.89	13.94	33.01
	1882.5	26365	V	21.22	9.75	-6.93	24.04	33.01
			H	9.31	9.74	-6.93	12.12	33.01
	1905.0	26590	V	19.95	9.84	-6.98	22.81	33.01
			H	8.84	9.84	-6.97	11.71	33.01

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t (886-2) 2299-3279

f (886-2) 2298-0488

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
LTE BAND 26 BW: 1.4M QPSK RB: 1,0	824.7	26797	V	23.70	5.14	-4.18	24.66	38.45
			H	22.42	5.14	-4.18	23.38	38.45
	836.5	26915	V	22.82	5.10	-4.22	23.70	38.45
			H	21.18	5.10	-4.22	22.06	38.45
	848.3	27033	V	20.92	5.06	-4.26	21.72	38.45
			H	19.21	5.06	-4.26	20.01	38.45
LTE BAND 26 BW: 1.4M QPSK RB: 1,5	824.7	26797	V	24.24	5.13	-4.18	25.19	38.45
			H	22.92	5.13	-4.18	23.87	38.45
	836.5	26915	V	22.52	5.10	-4.23	23.39	38.45
			H	20.89	5.10	-4.23	21.76	38.45
	848.3	27033	V	21.20	5.06	-4.27	21.99	38.45
			H	19.18	5.06	-4.26	19.98	38.45
LTE BAND 26 BW: 1.4M 16QAM RB: 1,0	824.7	26797	V	23.65	5.14	-4.18	24.61	38.45
			H	22.40	5.14	-4.18	23.36	38.45
	836.5	26915	V	22.85	5.10	-4.22	23.73	38.45
			H	21.25	5.10	-4.22	22.13	38.45
	848.3	27033	V	20.93	5.06	-4.26	21.73	38.45
			H	19.19	5.06	-4.26	19.99	38.45
LTE BAND 26 BW: 1.4M 16QAM RB: 1,5	824.7	26797	V	24.22	5.13	-4.18	25.17	38.45
			H	22.87	5.13	-4.18	23.82	38.45
	836.5	26915	V	22.56	5.10	-4.23	23.43	38.45
			H	20.93	5.10	-4.23	21.80	38.45
	848.3	27033	V	21.14	5.05	-4.27	21.92	38.45
			H	19.50	5.06	-4.26	20.30	38.45
Remark : (1)The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz								

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EUT			Measurement						
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit	
	MHz		V/H	dBm	dBd	dB	dBm	dBm	
LTE BAND 26 BW: 3M QPSK RB: 1,0	825.5	26805	V	23.54	5.14	-4.18	24.50	38.45	
			H	22.42	5.14	-4.18	23.38	38.45	
	836.5	26915	V	23.20	5.10	-4.22	24.08	38.45	
			H	21.62	5.10	-4.22	22.50	38.45	
	847.5	27025	V	22.34	5.06	-4.26	23.14	38.45	
			H	20.56	5.06	-4.26	21.36	38.45	
LTE BAND 26 BW: 3M QPSK RB: 1,14	825.5	26805	V	24.35	5.13	-4.19	25.29	38.45	
			H	22.98	5.13	-4.19	23.92	38.45	
	836.5	26915	V	22.46	5.09	-4.23	23.32	38.45	
			H	20.83	5.09	-4.23	21.69	38.45	
	847.5	27025	V	21.21	5.06	-4.26	22.01	38.45	
			H	19.47	5.05	-4.27	20.25	38.45	
	LTE BAND 26 BW: 3M 16QAM RB: 1,0	825.5	26805	V	23.55	5.14	-4.18	24.51	38.45
				H	22.44	5.14	-4.18	23.40	38.45
836.5		26915	V	23.28	5.10	-4.22	24.16	38.45	
			H	21.63	5.10	-4.22	22.51	38.45	
847.5		27025	V	22.45	5.06	-4.26	23.25	38.45	
			H	20.62	5.06	-4.26	21.42	38.45	
LTE BAND 26 BW: 3M 16QAM RB: 1,14		825.5	26805	V	24.39	5.13	-4.19	25.33	38.45
				H	22.92	5.13	-4.19	23.86	38.45
	836.5	26915	V	22.50	5.09	-4.23	23.36	38.45	
			H	20.84	5.09	-4.23	21.70	38.45	
	847.5	27025	V	21.18	5.06	-4.26	21.98	38.45	
			H	19.40	5.06	-4.26	20.20	38.45	

Remark : (1)The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
LTE BAND 26 BW: 5M QPSK RB: 1,0	826.5	26815	V	23.59	5.14	-4.18	24.55	38.45
			H	22.49	5.14	-4.18	23.45	38.45
	836.5	26915	V	23.53	5.10	-4.22	24.41	38.45
			H	21.93	5.11	-4.21	22.83	38.45
	846.5	27015	V	22.07	5.07	-4.25	22.89	38.45
			H	20.28	5.07	-4.25	21.10	38.45
LTE BAND 26 BW: 5M QPSK RB: 1,24	826.5	26815	V	23.52	5.12	-4.20	24.44	38.45
			H	22.02	5.12	-4.20	22.94	38.45
	836.5	26915	V	22.57	5.09	-4.23	23.43	38.45
			H	20.89	5.09	-4.23	21.75	38.45
	846.5	27015	V	21.22	5.06	-4.26	22.02	38.45
			H	19.35	5.06	-4.27	20.14	38.45
LTE BAND 26 BW: 5M 16QAM RB: 1,0	826.5	26815	V	23.60	5.14	-4.18	24.56	38.45
			H	22.46	5.14	-4.18	23.42	38.45
	836.5	26915	V	23.75	5.10	-4.22	24.63	38.45
			H	22.03	5.11	-4.22	22.92	38.45
	846.5	27015	V	22.17	5.07	-4.25	22.99	38.45
			H	20.37	5.07	-4.25	21.19	38.45
LTE BAND 26 BW: 5M 16QAM RB: 1,24	826.5	26815	V	23.54	5.12	-4.20	24.46	38.45
			H	22.11	5.12	-4.19	23.04	38.45
	836.5	26915	V	22.59	5.09	-4.23	23.45	38.45
			H	20.91	5.09	-4.23	21.77	38.45
	846.5	27015	V	21.13	5.06	-4.26	21.93	38.45
			H	19.28	5.06	-4.26	20.08	38.45

Remark : (1) The RBW, VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement						
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit	
	MHz		V/H	dBm	dBd	dB	dBm	dBm	
LTE BAND 26 BW: 10M QPSK RB: 1,0	829.0	26840	V	23.68	5.14	-4.18	24.64	38.45	
			H	16.51	5.14	-4.18	17.47	38.45	
	836.5	26915	V	17.82	5.11	-4.20	18.73	38.45	
			H	17.91	5.11	-4.21	18.81	38.45	
	844.0	26990	V	16.87	5.08	-4.24	17.71	38.45	
			H	15.27	5.09	-4.24	16.12	38.45	
LTE BAND 26 BW: 10M QPSK RB: 1,49	829.0	26840	V	23.51	5.11	-4.21	24.41	38.45	
			H	22.07	5.11	-4.21	22.97	38.45	
	836.5	26915	V	19.30	5.08	-4.24	20.14	38.45	
			H	15.14	5.08	-4.24	15.98	38.45	
	844.0	26990	V	21.08	5.06	-4.26	21.88	38.45	
			H	16.61	5.06	-4.26	17.41	38.45	
	LTE BAND 26 BW: 10M 16QAM RB: 1,0	829.0	26840	V	23.67	5.14	-4.18	24.63	38.45
				H	22.55	5.14	-4.18	23.51	38.45
836.5		26915	V	18.90	5.11	-4.21	19.80	38.45	
			H	17.26	5.11	-4.21	18.16	38.45	
844.0		26990	V	18.64	5.08	-4.24	19.48	38.45	
			H	15.24	5.09	-4.24	16.09	38.45	
LTE BAND 26 BW: 10M 16QAM RB: 1,49	829.0	26840	V	23.65	5.11	-4.21	24.55	38.45	
			H	22.15	5.11	-4.21	23.05	38.45	
	836.5	26915	V	16.85	5.08	-4.24	17.69	38.45	
			H	17.39	5.08	-4.24	18.23	38.45	
	844.0	26990	V	16.77	5.06	-4.26	17.57	38.45	
			H	15.06	5.06	-4.26	15.86	38.45	
Remark : (1)The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz									

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EUT			Measurement						
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit	
	MHz		V/H	dBm	dBd	dB	dBm	dBm	
LTE BAND 26 BW: 15M QPSK RB: 1,0	831.5	26865	V	19.76	5.13	-4.18	20.71	38.45	
			H	22.81	5.13	-4.18	23.76	38.45	
	836.5	26915	V	20.40	5.12	-4.20	21.32	38.45	
			H	18.90	5.12	-4.20	19.82	38.45	
	841.5	26965	V	20.25	5.10	-4.22	21.13	38.45	
			H	18.67	5.10	-4.22	19.55	38.45	
LTE BAND 26 BW: 15M QPSK RB: 1,74	831.5	26865	V	23.93	5.13	-4.18	24.88	38.45	
			H	20.88	5.09	-4.23	21.74	38.45	
	836.5	26915	V	20.35	5.12	-4.20	21.27	38.45	
			H	17.28	5.08	-4.25	18.11	38.45	
	841.5	26965	V	17.77	5.10	-4.22	18.65	38.45	
			H	14.99	5.06	-4.26	15.79	38.45	
	LTE BAND 26 BW: 15M 16QAM RB: 1,0	831.5	26865	V	23.92	5.13	-4.18	24.87	38.45
				H	22.79	5.13	-4.18	23.74	38.45
836.5		26915	V	20.22	5.12	-4.20	21.14	38.45	
			H	18.75	5.12	-4.20	19.67	38.45	
841.5		26965	V	20.30	5.10	-4.22	21.18	38.45	
			H	15.38	5.10	-4.22	16.26	38.45	
LTE BAND 26 BW: 15M 16QAM RB: 1,74	831.5	26865	V	19.98	5.09	-4.23	20.84	38.45	
			H	20.89	5.09	-4.23	21.75	38.45	
	836.5	26915	V	21.22	5.08	-4.25	22.05	38.45	
			H	17.30	5.07	-4.25	18.12	38.45	
	841.5	26965	V	16.83	5.06	-4.26	17.63	38.45	
			H	14.97	5.06	-4.26	15.77	38.45	

Remark : (1)The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
LTE BAND 26 BW: 1.4M QPSK RB: 1,0	814.7	26697	V	24.21	5.17	-4.14	25.24	50.00
			H	23.42	5.17	-4.14	24.45	50.00
	819.0	26740	V	24.26	5.16	-4.16	25.26	50.00
			H	23.33	5.16	-4.16	24.33	50.00
	823.3	26783	V	23.02	5.14	-4.17	23.99	50.00
			H	22.07	5.14	-4.17	23.04	50.00
LTE BAND 26 BW: 1.4M QPSK RB: 1,5	814.7	26697	V	25.02	5.17	-4.15	26.04	50.00
			H	24.17	5.17	-4.14	25.20	50.00
	819.0	26740	V	23.72	5.15	-4.16	24.71	50.00
			H	22.81	5.16	-4.16	23.81	50.00
	823.3	26783	V	23.28	5.14	-4.17	24.25	50.00
			H	22.24	5.14	-4.18	23.20	50.00
LTE BAND 26 BW: 1.4M 16QAM RB: 1,0	814.7	26697	V	24.11	5.17	-4.14	25.14	50.00
			H	23.26	5.17	-4.14	24.29	50.00
	819.0	26740	V	24.31	5.16	-4.16	25.31	50.00
			H	23.43	5.16	-4.16	24.43	50.00
	823.3	26783	V	23.04	5.14	-4.17	24.01	50.00
			H	22.04	5.14	-4.17	23.01	50.00
LTE BAND 26 BW: 1.4M 16QAM RB: 1,5	814.7	26697	V	24.99	5.17	-4.15	26.01	50.00
			H	24.14	5.17	-4.15	25.16	50.00
	819.0	26740	V	23.83	5.15	-4.16	24.82	50.00
			H	22.94	5.15	-4.16	23.93	50.00
	823.3	26783	V	23.25	5.14	-4.18	24.21	50.00
			H	22.20	5.14	-4.17	23.17	50.00

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f (886-2) 2298-0488

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
LTE BAND 26 BW: 3M QPSK RB: 1,0	815.5	26705	V	24.22	5.17	-4.14	25.25	50.00
			H	23.41	5.17	-4.14	24.44	50.00
	819.0	26740	V	23.98	5.16	-4.15	24.99	50.00
			H	23.22	5.16	-4.15	24.23	50.00
	822.5	26775	V	23.16	5.15	-4.17	24.14	50.00
			H	22.24	5.15	-4.17	23.22	50.00
LTE BAND 26 BW: 3M QPSK RB: 1,14	815.5	26705	V	22.89	5.16	-4.15	23.90	50.00
			H	23.29	5.16	-4.15	24.30	50.00
	819.0	26740	V	23.41	5.15	-4.16	24.40	50.00
			H	22.50	5.15	-4.16	23.49	50.00
	822.5	26775	V	23.29	5.14	-4.18	24.25	50.00
			H	22.25	5.14	-4.18	23.21	50.00
LTE BAND 26 BW: 3M 16QAM RB: 1,0	815.5	26705	V	24.09	5.17	-4.14	25.12	50.00
			H	23.27	5.17	-4.14	24.30	50.00
	819.0	26740	V	24.01	5.16	-4.15	25.02	50.00
			H	23.08	5.16	-4.15	24.09	50.00
	822.5	26775	V	23.19	5.15	-4.17	24.17	50.00
			H	22.25	5.15	-4.17	23.23	50.00
LTE BAND 26 BW: 3M 16QAM RB: 1,14	815.5	26705	V	23.71	5.17	-4.14	24.74	50.00
			H	23.48	5.16	-4.15	24.49	50.00
	819.0	26740	V	23.47	5.15	-4.16	24.46	50.00
			H	23.45	5.16	-4.15	24.46	50.00
	822.5	26775	V	23.26	5.14	-4.18	24.22	50.00
			H	22.53	5.15	-4.16	23.52	50.00

Remark : (1)The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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f (886-2) 2298-0488

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
LTE BAND 26 BW: 5M QPSK RB: 1,0	816.5	26715	V	24.27	5.17	-4.14	25.30	50.00
			H	23.42	5.17	-4.14	24.45	50.00
	819.0	26740	V	24.23	5.16	-4.15	25.24	50.00
			H	23.39	5.16	-4.15	24.40	50.00
	821.5	26765	V	23.80	5.15	-4.16	24.79	50.00
			H	22.90	5.15	-4.16	23.89	50.00
LTE BAND 26 BW: 5M QPSK RB: 1,24	816.5	26715	V	23.94	5.16	-4.16	24.94	50.00
			H	23.07	5.15	-4.16	24.06	50.00
	819.0	26740	V	23.93	5.16	-4.16	24.93	50.00
			H	22.25	5.15	-4.17	23.23	50.00
	821.5	26765	V	23.26	5.14	-4.18	24.22	50.00
			H	22.20	5.14	-4.17	23.17	50.00
LTE BAND 26 BW: 5M 16QAM RB: 1,0	816.5	26715	V	24.16	5.17	-4.14	25.19	50.00
			H	23.32	5.17	-4.14	24.35	50.00
	819.0	26740	V	22.89	5.16	-4.15	23.90	50.00
			H	22.03	5.16	-4.15	23.04	50.00
	821.5	26765	V	23.82	5.15	-4.16	24.81	50.00
			H	22.91	5.15	-4.16	23.90	50.00
LTE BAND 26 BW: 5M 16QAM RB: 1,24	816.5	26715	V	24.00	5.16	-4.16	25.00	50.00
			H	23.20	5.16	-4.16	24.20	50.00
	819.0	26740	V	23.22	5.15	-4.17	24.20	50.00
			H	22.29	5.15	-4.17	23.27	50.00
	821.5	26765	V	23.23	5.14	-4.18	24.19	50.00
			H	22.21	5.14	-4.18	23.17	50.00

Remark : (1)The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
LTE BAND 26 BW: 10M QPSK RB: 1,0	819.0	26740	V	24.27	5.17	-4.14	25.30	50.00
			H	23.45	5.17	-4.14	24.48	50.00
LTE BAND 26 BW: 10M QPSK RB: 1,49	819.0	26740	V	23.15	5.14	-4.17	24.12	50.00
			H	22.10	5.14	-4.17	23.07	50.00
LTE BAND 26 BW: 10M 16QAM RB: 1,0	819.0	26740	V	24.26	5.17	-4.14	25.29	50.00
			H	23.42	5.17	-4.14	24.45	50.00
LTE BAND 26 BW: 10M 16QAM RB: 1,49	819.0	26740	V	23.14	5.14	-4.17	24.11	50.00
			H	22.08	5.14	-4.17	23.05	50.00

Remark : (1)The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit	
	MHz		V/H	dBm	dBd	dB	dBm	dBm	
LTE BAND 30 BW: 5M QPSK RB: 1,0	2307.5	27685	V	23.30	10.51	-7.59	26.22	34.77	
			H	12.72	10.51	-7.59	15.64	34.77	
	2310.0	27710	V	23.56	10.51	-7.59	26.48	34.77	
			H	13.23	10.51	-7.59	16.15	34.77	
	2312.5	27735	V	22.82	10.51	-7.59	25.74	34.77	
			H	12.68	10.51	-7.59	15.60	34.77	
LTE BAND 30 BW: 5M QPSK RB: 1,24	2307.5	27685	V	22.85	10.51	-7.59	25.77	34.77	
			H	12.66	10.51	-7.59	15.58	34.77	
	2310.0	27710	V	23.24	10.51	-7.60	26.15	34.77	
			H	12.03	10.51	-7.60	14.94	34.77	
	2312.5	27735	V	22.83	10.51	-7.60	25.74	34.77	
			H	12.65	10.51	-7.60	15.56	34.77	
	LTE BAND 30 BW: 5M 16QAM RB: 1,0	2307.5	27685	V	23.69	10.51	-7.59	26.61	34.77
				H	13.00	10.51	-7.59	15.92	34.77
2310.0		27710	V	24.42	10.51	-7.59	27.34	34.77	
			H	13.62	10.51	-7.59	16.54	34.77	
2312.5		27735	V	23.20	10.51	-7.59	26.12	34.77	
			H	13.19	10.51	-7.59	16.11	34.77	
LTE BAND 30 BW: 5M 16QAM RB: 1,24	2307.5	27685	V	23.74	10.51	-7.59	26.66	34.77	
			H	13.87	10.51	-7.59	16.79	34.77	
	2310.0	27710	V	23.96	10.51	-7.60	26.87	34.77	
			H	13.00	10.51	-7.60	15.91	34.77	
	2312.5	27735	V	23.28	10.51	-7.60	26.19	34.77	
			H	12.66	10.51	-7.60	15.57	34.77	

Remark : (1)The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
LTE BAND 30 BW: 10M QPSK RB: 1,0	2310.0	27710	V	23.39	10.51	-7.59	26.31	34.77
			H	13.41	10.51	-7.59	16.33	34.77
LTE BAND 30 BW: 10M QPSK RB: 1,49	2310.0	27710	V	23.79	10.51	-7.60	26.70	34.77
			H	13.33	10.52	-7.60	16.25	34.77
LTE BAND 30 BW: 10M 16QAM RB: 1,0	2310.0	27710	V	23.44	10.51	-7.59	26.36	34.77
			H	13.39	10.51	-7.59	16.31	34.77
LTE BAND 30 BW: 10M 16QAM RB: 1,49	2310.0	27710	V	22.75	10.51	-7.60	25.66	34.77
			H	12.66	10.51	-7.60	15.57	34.77

Remark : (1)The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE BAND 41 BW: 5M QPSK RB: 1,0	2498.5	39675	V	24.04	10.70	-7.82	26.92	33.00
			H	15.43	10.70	-7.83	18.30	33.00
	2593.0	40620	V	23.82	10.81	-7.93	26.70	33.00
			H	11.59	10.81	-7.93	14.47	33.00
	2687.5	41565	V	23.08	10.92	-8.03	25.97	33.00
			H	12.60	10.92	-8.03	15.49	33.00
LTE BAND 41 BW: 5M QPSK RB: 1,24	2498.5	39675	V	24.47	10.70	-7.83	27.34	33.00
			H	15.34	10.70	-7.83	18.21	33.00
	2593.0	40620	V	24.89	10.81	-7.93	27.77	33.00
			H	12.21	10.82	-7.94	15.09	33.00
	2687.5	41565	V	22.95	10.93	-8.03	25.85	33.00
			H	12.23	10.93	-8.03	15.13	33.00
LTE BAND 41 BW: 5M 16QAM RB: 1,0	2498.5	39675	V	23.96	10.70	-7.83	26.83	33.00
			H	15.02	10.70	-7.83	17.89	33.00
	2593.0	40620	V	23.56	10.81	-7.93	26.44	33.00
			H	11.68	10.81	-7.93	14.56	33.00
	2687.5	41565	V	22.90	10.92	-8.03	25.79	33.00
			H	12.56	10.92	-8.03	15.45	33.00
LTE BAND 41 BW: 5M 16QAM RB: 1,24	2498.5	39675	V	24.30	10.70	-7.83	27.17	33.00
			H	15.24	10.70	-7.83	18.11	33.00
	2593.0	40620	V	23.74	10.81	-7.93	26.62	33.00
			H	11.47	10.81	-7.94	14.34	33.00
	2687.5	41565	V	22.70	10.93	-8.03	25.60	33.00
			H	11.90	10.93	-8.03	14.80	33.00

Remark : (1)The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE BAND 41 BW: 10M QPSK RB: 1,0	2501.0	39700	V	23.79	10.70	-7.83	26.66	33.00
			H	14.75	10.70	-7.83	17.62	33.00
	2593.0	40620	V	23.27	10.80	-7.92	26.15	33.00
			H	11.38	10.80	-7.93	14.25	33.00
	2685.0	41540	V	22.99	10.92	-8.02	25.89	33.00
			H	12.42	10.92	-8.02	15.32	33.00
LTE BAND 41 BW: 10M QPSK RB: 1,49	2501.0	39700	V	24.18	10.71	-7.84	27.05	33.00
			H	14.75	10.71	-7.84	17.62	33.00
	2593.0	40620	V	24.31	10.81	-7.93	27.19	33.00
			H	11.37	10.81	-7.93	14.25	33.00
	2685.0	41540	V	22.86	10.93	-8.03	25.76	33.00
			H	11.91	10.93	-8.03	14.81	33.00
LTE BAND 41 BW: 10M 16QAM RB: 1,0	2501.0	39700	V	23.68	10.70	-7.83	26.55	33.00
			H	14.60	10.70	-7.83	17.47	33.00
	2593.0	40620	V	23.23	10.80	-7.93	26.10	33.00
			H	11.57	10.80	-7.93	14.44	33.00
	2685.0	41540	V	22.82	10.92	-8.02	25.72	33.00
			H	12.22	10.92	-8.02	15.12	33.00
LTE BAND 41 BW: 10M 16QAM RB: 1,49	2501.0	39700	V	24.05	10.71	-7.83	26.93	33.00
			H	14.65	10.71	-7.84	17.52	33.00
	2593.0	40620	V	24.42	10.81	-7.94	27.29	33.00
			H	11.93	10.82	-7.94	14.81	33.00
	2685.0	41540	V	22.57	10.93	-8.03	25.47	33.00
			H	11.74	10.93	-8.03	14.64	33.00

Remark : (1) The RBW, VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE BAND 41 BW: 15M QPSK RB: 1,0	2503.5	39725	V	23.82	10.70	-7.83	26.69	33.00
			H	14.91	10.70	-7.83	17.78	33.00
	2593.0	40620	V	22.97	10.80	-7.93	25.84	33.00
			H	12.10	10.81	-7.93	14.98	33.00
	2682.5	41515	V	23.04	10.91	-8.02	25.93	33.00
			H	14.70	10.91	-8.02	17.59	33.00
LTE BAND 41 BW: 15M QPSK RB: 1,74	2503.5	39725	V	24.25	10.71	-7.84	27.12	33.00
			H	14.60	10.71	-7.84	17.47	33.00
	2593.0	40620	V	24.09	10.82	-7.94	26.97	33.00
			H	13.41	10.82	-7.94	16.29	33.00
	2682.5	41515	V	22.74	10.93	-8.03	25.64	33.00
			H	14.55	10.93	-8.03	17.45	33.00
LTE BAND 41 BW: 15M 16QAM RB: 1,0	2503.5	39725	V	23.79	10.70	-7.83	26.66	33.00
			H	14.81	10.70	-7.83	17.68	33.00
	2593.0	40620	V	23.23	10.80	-7.92	26.11	33.00
			H	12.62	10.80	-7.93	15.49	33.00
	2682.5	41515	V	23.01	10.91	-8.02	25.90	33.00
			H	14.52	10.91	-8.02	17.41	33.00
LTE BAND 41 BW: 15M 16QAM RB: 1,74	2503.5	39725	V	23.34	10.71	-7.84	26.21	33.00
			H	13.74	10.71	-7.84	16.61	33.00
	2593.0	40620	V	24.31	10.82	-7.94	27.19	33.00
			H	13.61	10.82	-7.94	16.49	33.00
	2682.5	41515	V	22.52	10.93	-8.03	25.42	33.00
			H	14.18	10.93	-8.03	17.08	33.00

Remark : (1) The RBW, VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE BAND 41 BW: 20M QPSK RB: 1,0	2506.0	39750	V	24.56	10.70	-7.83	27.43	33.00
			H	14.93	10.70	-7.83	17.80	33.00
	2593.0	40620	V	22.50	10.80	-7.92	25.38	33.00
			H	10.69	10.80	-7.92	13.57	33.00
	2680.0	41490	V	24.32	10.91	-8.01	27.22	33.00
			H	15.63	10.91	-8.01	18.53	33.00
LTE BAND 41 BW: 20M QPSK RB: 1,99	2506.0	39750	V	23.63	10.72	-7.85	26.50	33.00
			H	13.03	10.72	-7.85	15.90	33.00
	2593.0	40620	V	24.24	10.82	-7.94	27.12	33.00
			H	10.29	10.82	-7.94	13.17	33.00
	2680.0	41490	V	22.98	10.93	-8.03	25.88	33.00
			H	14.07	10.93	-8.03	16.97	33.00
LTE BAND 41 BW: 20M 16QAM RB: 1,0	2506.0	39750	V	24.60	10.70	-7.83	27.47	33.00
			H	14.76	10.70	-7.83	17.63	33.00
	2593.0	40620	V	22.75	10.80	-7.92	25.63	33.00
			H	10.91	10.80	-7.92	13.79	33.00
	2680.0	41490	V	23.99	10.91	-8.01	26.89	33.00
			H	15.50	10.91	-8.01	18.40	33.00
LTE BAND 41 BW: 20M 16QAM RB: 1,99	2506.0	39750	V	23.58	10.72	-7.85	26.45	33.00
			H	13.17	10.72	-7.85	16.04	33.00
	2593.0	40620	V	24.52	10.82	-7.94	27.40	33.00
			H	10.48	10.82	-7.94	13.36	33.00
	2680.0	41490	V	22.88	10.93	-8.03	25.78	33.00
			H	14.32	10.93	-8.03	17.22	33.00

Remark : (1) The RBW, VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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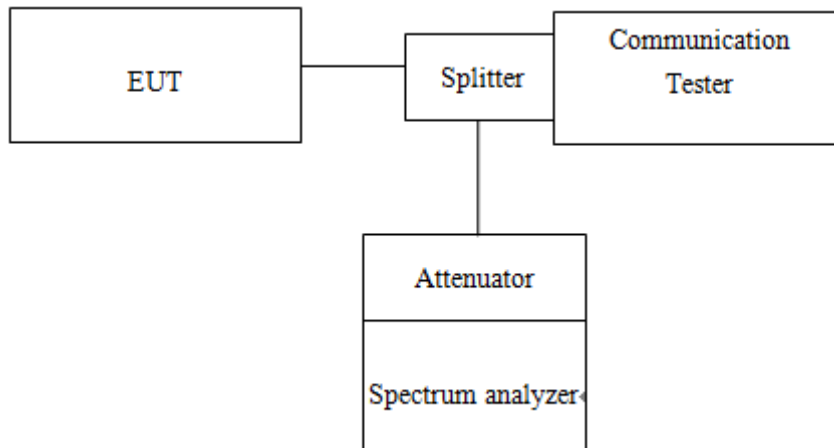
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8. OCCUPIED BANDWIDTH MEASUREMENT

8.1. Standard Applicable

The occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power.

8.2. Test Set-up



8.3. Measurement Procedure

99% &26dB Bandwidth with detector peak

The EUT's output RF connector was connected with a short cable to the spectrum analyzer, RBW was set to about 1% of emission BW, VBW= 3 times RBW, -26dBc display line was placed on the screen (or 26dB bandwidth), the occupied bandwidth is the delta frequency between the two points where the display line intersects the signal trace. Then set RBW to 99% bandwidth, RBW= 1%, VBW= 3 RBW, with span > 2 * Signal BW, set % Power = 99%.

99% Bandwidth with detector sample

The EUT's output RF connector was connected with a short cable to the spectrum analyzer, RBW was set to about 1% ~ 5% of emission BW, VBW= 3 times RBW, -20dBc display line was placed on the screen (or 20dB bandwidth). Set RBW to 99% bandwidth, RBW= 1% ~ 5%, VBW= 3 RBW, with span > 2 * Signal BW, set % Power = 99%.

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8.4. Measurement Equipment Used

Conducted Emission (measured at antenna port) Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	KEYSIGHT	N9010A	MY51440113	06/20/2017	06/19/2018
Communication Tester	Anritsu	MT8820C	6201107337	06/11/2017	06/10/2018
Coaxial Cable 30cm	WOKEN	00100A1F1A19 5C	RF01	12/24/2017	12/23/2018
Temperature Chamber	TERCHY	MHK-120LK	1020582	06/13/2017	06/12/2018
DC Block	PASTERNAK	PE8210	RF29	12/24/2017	12/23/2018
Splitter	RF-LAMBAD	RFLT2W1G18 G	RF35	12/24/2017	12/23/2018
Attenuator	WOKEN	218FS-10	RF23	12/24/2017	12/23/2018
DC Power Supply	Agilent	E3640A	MY53140006	05/02/2017	05/01/2018

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8.5. Measurement Result

Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		WCDMA II	HSDPA II	HSUPA II	WCDMA II	HSDPA II	HSUPA II
1852.40	9262	4.1360	4.1432	4.1290	4.6940	4.6950	4.7160
1880.00	9400	4.1275	4.1388	4.1319	4.6900	4.6970	4.6910
1907.60	9538	4.1492	4.1408	4.1276	4.6980	4.7140	4.6620

Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		WCDMA IV	HSDPA IV	HSUPA IV	WCDMA IV	HSDPA IV	HSUPA IV
1712.40	1312	4.1306	4.1295	4.1230	4.6760	4.6720	4.6770
1732.60	1413	4.1348	4.1259	4.1316	4.6900	4.6560	4.6760
1752.60	1513	4.1312	4.1183	4.1202	4.6870	4.6720	4.6810

Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		WCDMA V	HSDPA V	HSUPA V	WCDMA V	HSDPA V	HSUPA V
826.40	4132	4.1463	4.1418	4.1448	4.6900	4.6710	4.6790
836.60	4183	4.1511	4.1392	4.1384	4.6820	4.6860	4.6740
846.60	4233	4.1220	4.1339	4.1162	4.6840	4.6890	4.6830

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LTE BAND 2 Channel bandwidth: 1.4MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1850.7	18607	1.0935	1.0942	1.2427	1.2422
1880.0	18900	1.0928	1.0917	1.2407	1.2456
1909.3	19193	1.0928	1.0930	1.2434	1.2359

LTE BAND 2 Channel bandwidth: 3MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1851.5	18615	2.6971	2.6979	2.9942	2.9951
1880.0	18900	2.6993	2.6985	2.9950	3.0204
1908.5	19185	2.6927	2.6962	2.9810	2.9975

LTE BAND 2 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1852.5	18625	4.4962	4.4999	5.0193	4.9760
1880.0	18900	4.4971	4.4931	4.9814	4.9755
1907.5	19175	4.4895	4.4838	4.9946	4.9790

LTE BAND 2 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1855.0	18650	8.9896	8.9572	9.794	9.782
1880.0	18900	8.9977	8.9677	9.831	9.733
1905.0	19150	8.9919	8.9481	9.785	9.720

LTE BAND 2 Channel bandwidth: 15MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1857.5	18675	13.474	13.454	14.649	14.721
1880.0	18900	13.485	13.472	14.704	14.616
1902.5	19125	13.453	13.444	14.541	14.625

LTE BAND 2 Channel bandwidth: 20MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1860.0	18700	17.940	17.976	19.472	19.437
1880.0	18900	17.960	17.946	19.457	19.460
1900.0	19100	17.928	17.950	19.541	19.484

LTE BAND 4 Channel bandwidth: 1.4MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1710.7	19957	1.0939	1.0909	1.2473	1.2337
1732.5	20175	1.0954	1.0936	1.2397	1.2347
1754.3	20393	1.0939	1.0957	1.2394	1.2379

LTE BAND 4 Channel bandwidth: 3MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1711.5	19965	2.6997	2.6965	2.9930	3.0106
1732.5	20175	2.6999	2.6946	2.9662	3.0022
1753.5	20385	2.6977	2.7000	2.9781	3.0057

LTE BAND 4 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1712.5	19957	4.4945	4.4920	4.9877	4.9754
1732.5	20175	4.4945	4.4962	5.0001	4.9574
1752.5	20375	4.4982	4.4956	4.9555	4.9358

LTE BAND 4 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1715.0	20000	8.9892	8.9681	9.834	9.750
1732.5	20175	8.9780	8.9504	9.800	9.787
1750.0	20350	8.9837	8.9654	9.827	9.745

LTE BAND 4 Channel bandwidth: 15MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1717.5	20025	13.498	13.490	14.744	14.685
1732.5	20175	13.449	13.459	14.740	14.674
1747.5	20325	13.488	13.478	14.694	14.770

LTE BAND 4 Channel bandwidth: 20MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1720.0	20050	17.943	17.925	19.525	19.520
1732.5	20175	17.957	17.936	19.481	19.353
1745.0	20300	17.949	17.979	19.514	19.520

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LTE BAND 5 Channel bandwidth: 1.4MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
824.7	20407	1.0904	1.0938	1.2380	1.2333
836.5	20525	1.0908	1.0930	1.2357	1.2368
848.3	20643	1.0918	1.0921	1.2332	1.2388

LTE BAND 5 Channel bandwidth: 3MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
825.5	20415	2.6961	2.6979	2.9805	2.9898
836.5	20525	2.6969	2.6974	2.9731	3.0116
847.5	20635	2.6946	2.6992	2.9831	3.0002

LTE BAND 5 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
826.5	20425	4.4919	4.4900	4.9681	4.9438
836.5	20525	4.4958	4.4912	4.9614	4.9519
846.5	20625	4.4950	4.4982	5.0071	4.9377

LTE BAND 5 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
829.0	20450	9.0144	8.9658	9.834	9.785
836.5	20525	8.9666	8.9601	9.831	9.739
844.0	20600	8.9687	8.9596	9.814	9.765

LTE BAND 7 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
2502.5	20775	4.4952	4.5008	5.0110	4.9595
2535.0	21100	4.4947	4.4961	4.9748	4.9296
2567.5	21425	4.4875	4.4925	4.9922	4.9749

LTE BAND 7 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
2505.0	20800	9.0128	8.9598	9.857	9.810
2535.0	21100	8.9713	8.9599	9.810	9.790
2565.0	21400	8.9918	8.9522	9.815	9.728

LTE BAND 7 Channel bandwidth: 15MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
2507.5	20825	13.484	13.492	14.666	14.769
2535.0	21100	13.482	13.473	14.672	14.823
2562.5	21375	13.492	13.476	14.696	14.681

LTE BAND 7 Channel bandwidth: 20MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
2510.0	20850	17.931	17.942	19.642	19.506
2535.0	21100	17.954	17.930	19.501	19.575
2560.0	21350	17.944	17.949	19.417	19.401

LTE BAND 12 Channel bandwidth: 1.4MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
699.7	23017	1.0934	1.0949	1.2453	1.2355
707.5	23095	1.0918	1.0945	1.2426	1.2254
715.3	23173	1.0920	1.0932	1.2419	1.2331

LTE BAND 12 Channel bandwidth: 3MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
700.5	23025	2.6963	2.6979	2.9890	3.0119
707.5	23095	2.6995	2.6977	3.0035	3.0042
714.5	23165	2.7000	2.6962	3.0141	3.0141

LTE BAND 12 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
701.5	23035	4.4948	4.5007	4.9786	4.9970
707.5	23095	4.5007	4.5098	4.9512	4.9221
713.5	23155	4.4945	4.4963	4.9548	4.9199

LTE BAND 12 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
704.0	23060	9.0072	8.9643	9.792	9.752
707.5	23095	8.9957	8.9835	9.850	9.745
711.0	23130	9.0044	8.9758	9.878	9.721

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f (886-2) 2298-0488

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LTE BAND 13 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
779.5	23205	4.4877	4.4876	4.9159	4.9220
782.0	23230	4.4972	4.5005	4.9919	4.9895
784.5	23255	4.4913	4.4996	4.9966	4.9946

LTE BAND 13 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
782.0	23230	8.979	8.949	9.739	9.696

LTE BAND 25 Channel bandwidth: 1.4MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1850.7	26047	1.0954	1.0951	1.248	1.249
1882.5	26365	1.0953	1.0963	1.255	1.251
1914.3	26683	1.0918	1.0941	1.247	1.233

LTE BAND 25 Channel bandwidth: 3MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1851.5	26055	2.6983	2.7001	3.010	3.018
1882.5	26365	2.7013	2.7000	3.002	3.006
1913.5	26675	2.6956	2.6970	2.987	3.018

LTE BAND 25 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1852.5	26065	4.4990	4.5043	5.025	4.991
1882.5	26365	4.5037	4.4965	4.996	4.989
1912.5	26665	4.4967	4.4956	5.002	4.956

LTE BAND 25 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1855.0	26090	9.0038	9.0004	9.857	9.818
1882.5	26365	9.0217	8.9627	9.884	9.720
1910.0	26640	8.9935	8.9622	9.799	9.727

LTE BAND 25 Channel bandwidth: 15MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1857.5	26115	13.4710	13.4820	14.780	14.850
1882.5	26365	13.4880	13.4810	14.750	14.890
1907.5	26615	13.4980	13.4650	14.690	14.790

LTE BAND 25 Channel bandwidth: 20MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1860.0	26140	17.9550	17.9800	19.710	19.550
1882.5	26365	17.9700	17.9720	19.520	19.480
1905.0	26590	17.9130	17.8980	19.380	19.380

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LTE BAND 26 Channel bandwidth: 1.4MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
814.7	26697	1.0960	1.0932	1.2400	1.2390
831.5	26865	1.0930	1.0938	1.2400	1.2370
848.3	27033	1.0921	1.0944	1.2377	1.2271

LTE BAND 26 Channel bandwidth: 3MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
815.5	26705	2.6974	2.6978	2.9910	3.0160
831.5	26865	2.6962	2.6968	3.0060	2.9970
847.5	27025	2.6999	2.6986	2.9987	2.9959

LTE BAND 26 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
816.5	26715	4.4985	4.4983	4.9950	4.9920
831.5	26865	4.4990	4.5022	5.0130	4.9650
846.5	27015	4.4947	4.4967	5.0104	5.0071

LTE BAND 26 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
820.0	26750	9.0123	8.9587	9.820	9.771
831.5	26865	9.0090	8.9515	9.833	9.794
844.0	26990	8.9757	8.9615	9.767	9.771

LTE BAND 26 Channel bandwidth: 15MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
822.5	26775	13.491	13.474	14.760	14.720
831.5	26865	13.481	13.472	14.750	14.790
841.5	26965	13.498	13.455	14.679	14.634

LTE BAND 26 for part 90S Channel bandwidth: 1.4MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
814.7	26697	1.0935	1.0900	1.2380	1.2250
819.0	26740	1.0932	1.0940	1.2400	1.2380
823.3	26783	1.0924	1.0908	1.2310	1.2330

LTE BAND 26 for part 90S Channel bandwidth: 3MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
815.5	26705	2.6982	2.6929	3.0010	2.9920
819.0	26740	2.6945	2.6975	2.9820	3.0080
822.5	26775	2.6974	2.6954	2.9950	3.0060

LTE BAND 26 for part 90S Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
816.5	26715	4.4990	4.4964	4.9840	4.9570
819.0	26740	4.4986	4.4924	4.9870	4.9590
821.5	26765	4.4920	4.4958	4.9550	5.0000

LTE BAND 26 for part 90S Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
819.0	26740	8.9934	8.9554	9.819	9.714

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LTE BAND 30 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
2307.5	27685	4.4924	4.4898	4.9800	4.4898
2310.0	27710	4.4836	4.4902	4.9420	4.9760
2312.5	27735	4.4913	4.4915	4.9860	4.9700

LTE BAND 30 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
2310.0	27710	8.9468	8.9468	9.696	9.767

LTE BAND 41 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
2498.5	39675	4.5024	4.5000	5.1140	4.9570
2593.0	40620	4.5007	4.4984	4.9930	5.0360
2687.5	41565	4.5160	4.5031	5.4450	5.1330

LTE BAND 41 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
2501.0	39700	8.9598	8.9670	9.859	10.090
2593.0	40620	8.9737	8.9701	9.883	10.250
2685.0	41540	8.9807	8.9491	10.120	10.040

LTE BAND 41 Channel bandwidth: 15MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
2503.5	39725	13.465	13.480	14.620	14.830
2593.0	40620	13.484	13.471	14.700	14.810
2682.5	41515	13.478	13.511	14.800	14.840

LTE BAND 41 Channel bandwidth: 20MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
2506.0	39750	17.927	17.918	19.760	19.970
2593.0	40620	17.947	17.967	19.700	19.300
2680.0	41490	17.981	17.960	20.480	19.390

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HSDPA_B2_LowCH9262-1852.4



WCDMA_B2_MidCH9400-1880



HSDPA_B2_MidCH9400-1880



WCDMA_B2_HighCH9538-1907.6



HSDPA_B2_HighCH9538-1907.6



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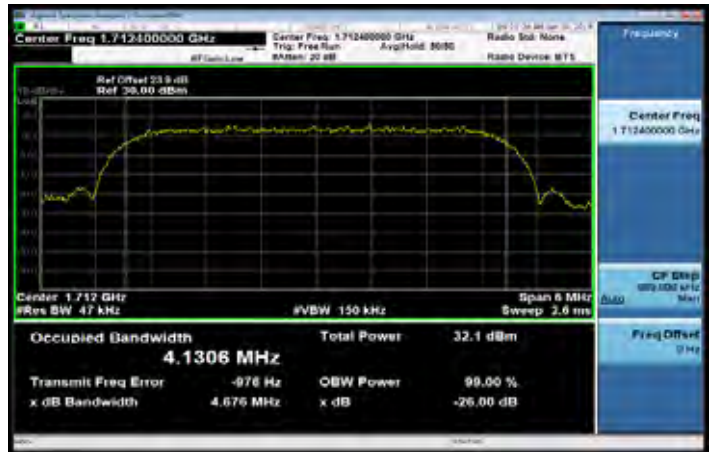
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WCDMA_B4_LowCH1312-1712.4



HSUPA_B2_MidCH9400-1880



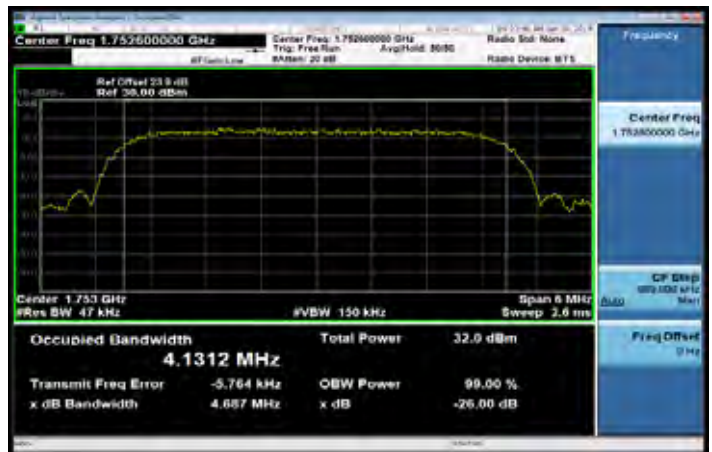
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WCDMA_B4_HighCH1513-1752.6



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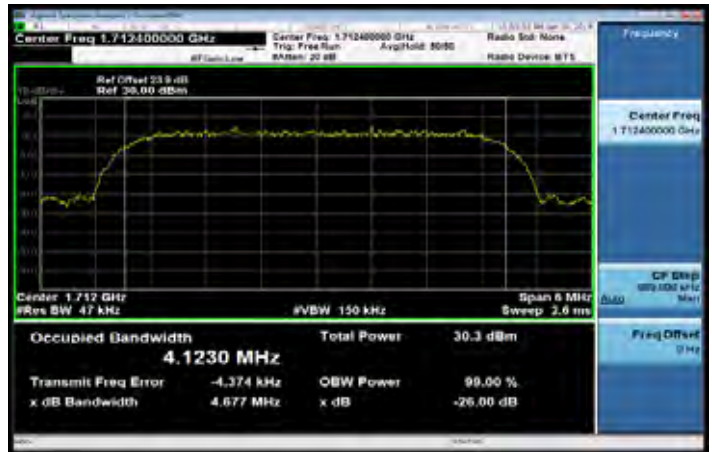
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HSUPA_B4_LowCH1312-1712.4



HSDPA_B4_MidCH1413-1732.6



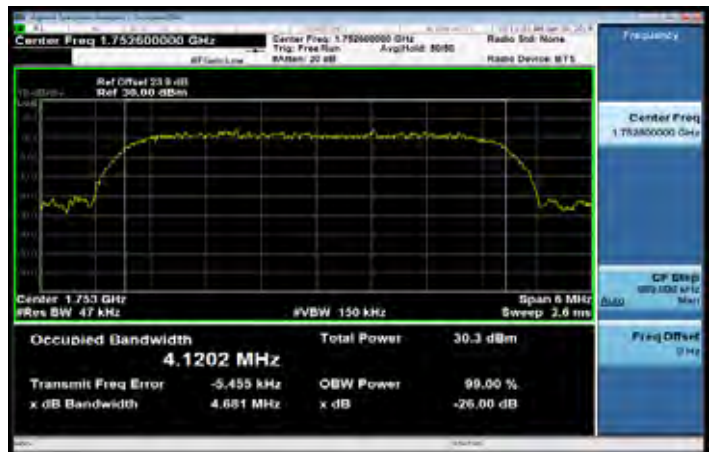
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HSDPA_B4_HighCH1513-1752.6



HSUPA_B4_HighCH1513-1752.6



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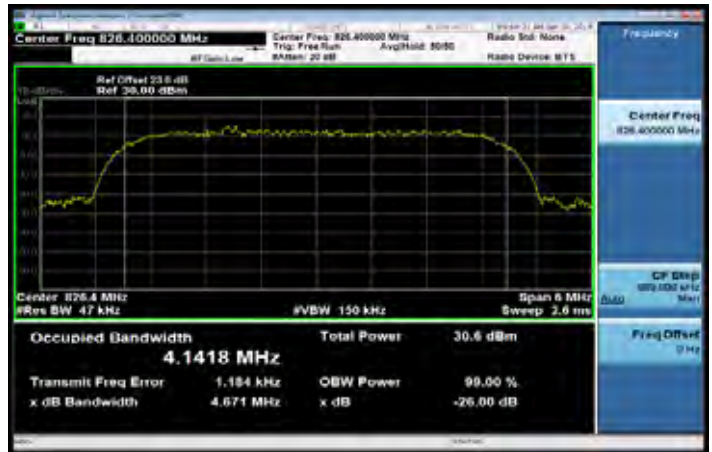
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WCDMA_B5_LowCH4132-826.4



HSDPA_B5_LowCH4132-826.4



WCDMA_B5_MidCH4183-836.6



HSDPA_B5_MidCH4183-836.6



WCDMA_B5_HighCH4233-846.6



HSDPA_B5_HighCH4233-846.6



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HSUPA_B5_MidCH4183-836.6



HSUPA_B5_HighCH4233-846.6



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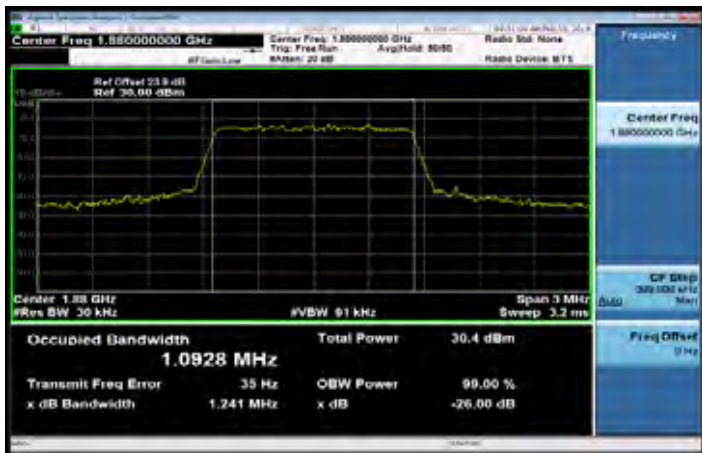
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Band2_1_4MHz_16QAM_6_0_LowCH18607-1850.7



Band2_1_4MHz_QPSK_6_0_MidCH18900-1880



Band2_1_4MHz_16QAM_6_0_MidCH18900-1880



Band2_1_4MHz_QPSK_6_0_HighCH19193-1909.3



Band2_1_4MHz_16QAM_6_0_HighCH19193-1909.3



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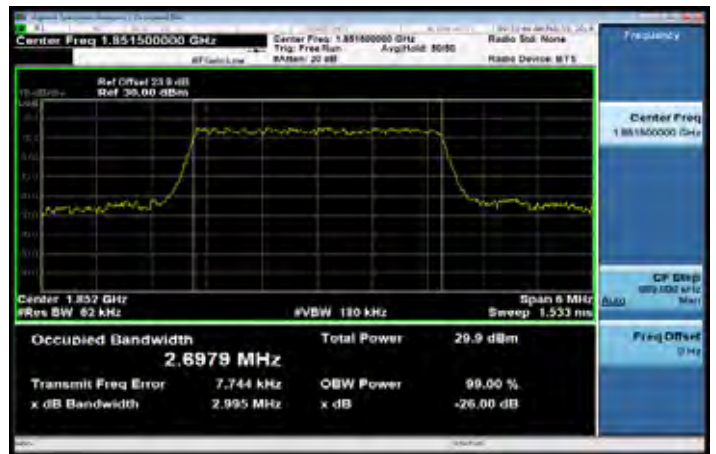
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Band2_3MHz_QPSK_15_0_LowCH18615-1851.5



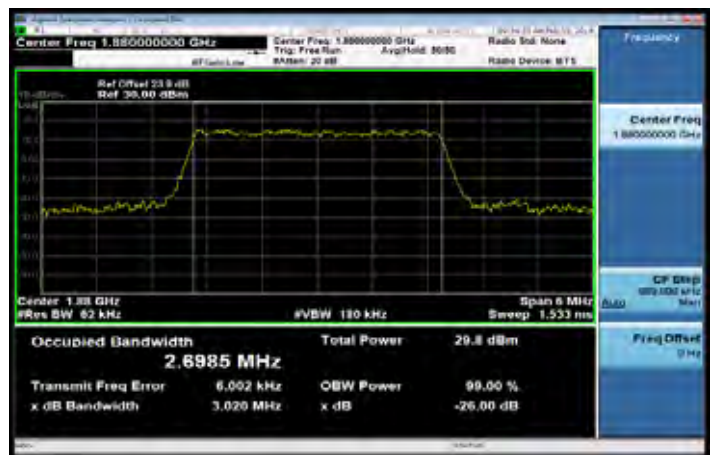
Band2_3MHz_16QAM_15_0_LowCH18615-1851.5



Band2_3MHz_QPSK_15_0_MidCH18900-1880



Band2_3MHz_16QAM_15_0_MidCH18900-1880



Band2_3MHz_QPSK_15_0_HighCH19185-1908.5



Band2_3MHz_16QAM_15_0_HighCH19185-1908.5



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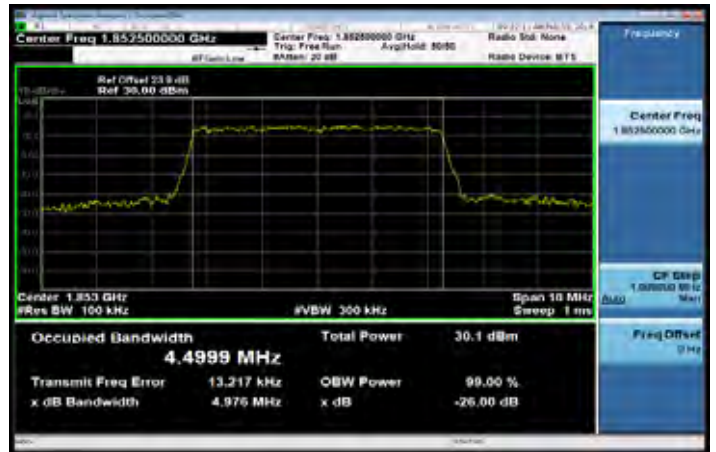
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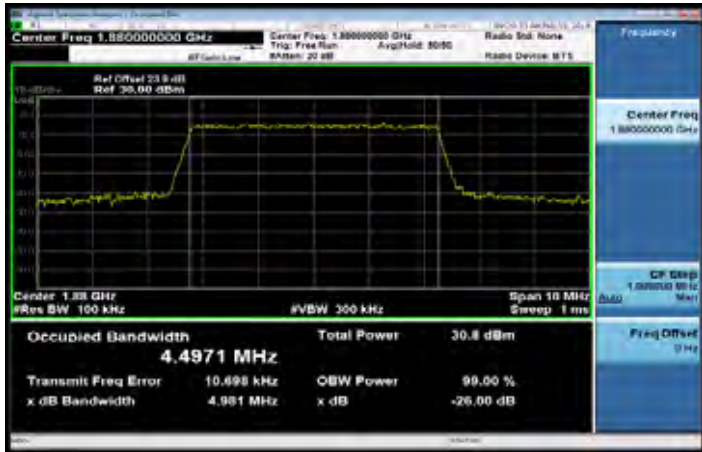
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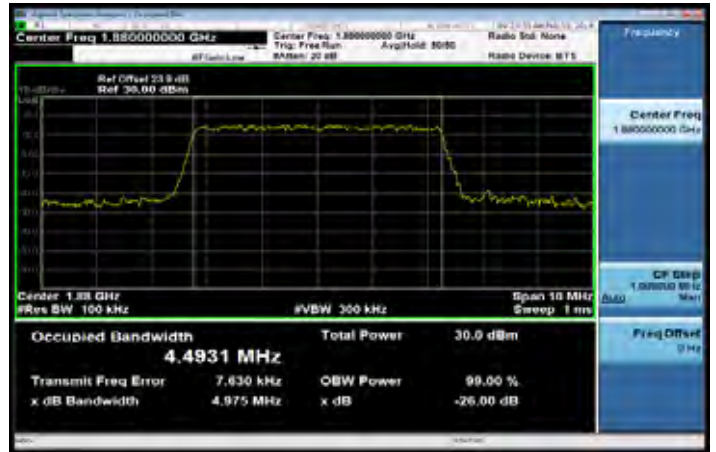
Band2_5MHz_16QAM_25_0_LowCH18625-1852.5



Band2_5MHz_QPSK_25_0_MidCH18900-1880



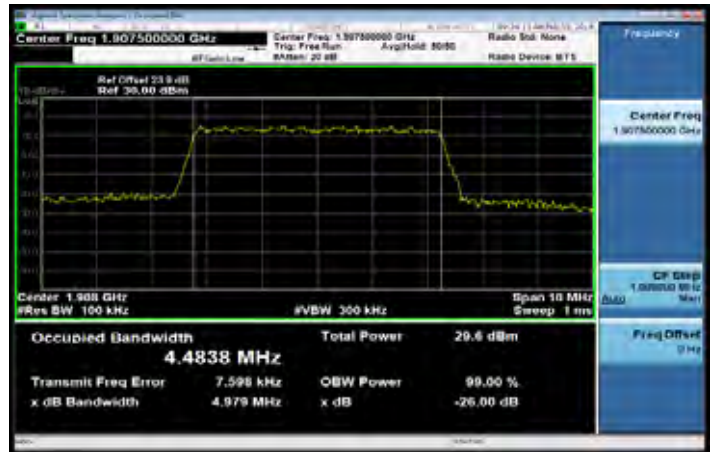
Band2_5MHz_16QAM_25_0_MidCH18900-1880



Band2_5MHz_QPSK_25_0_HighCH19175-1907.5



Band2_5MHz_16QAM_25_0_HighCH19175-1907.5



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Band2_10MHz_QPSK_50_0_LowCH18650-1855



Band2_10MHz_16QAM_50_0_LowCH18650-1855



Band2_10MHz_QPSK_50_0_MidCH18900-1880



Band2_10MHz_16QAM_50_0_MidCH18900-1880



Band2_10MHz_QPSK_50_0_HighCH19150-1905



Band2_10MHz_16QAM_50_0_HighCH19150-1905



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Band2_15MHz_QPSK_75_0_LowCH18675-1857.5



Band2_15MHz_16QAM_75_0_LowCH18675-1857.5



Band2_15MHz_QPSK_75_0_MidCH18900-1880



Band2_15MHz_16QAM_75_0_MidCH18900-1880



Band2_15MHz_QPSK_75_0_HighCH19125-1902.5



Band2_15MHz_16QAM_75_0_HighCH19125-1902.5



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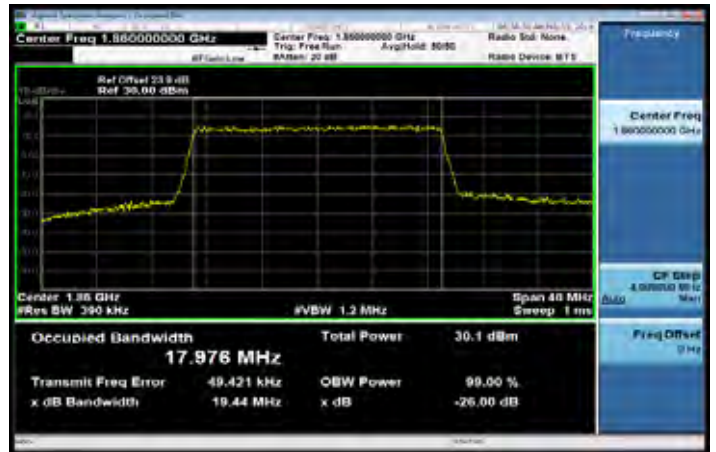
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Band2_20MHz_QPSK_100_0_LowCH18700-1860



Band2_20MHz_16QAM_100_0_LowCH18700-1860



Band2_20MHz_QPSK_100_0_MidCH18900-1880



Band2_20MHz_16QAM_100_0_MidCH18900-1880



Band2_20MHz_QPSK_100_0_HighCH19100-1900



Band2_20MHz_16QAM_100_0_HighCH19100-1900



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Band4_1_4MHz_QPSK_6_0_LowCH19957-1710.7



Band4_1_4MHz_16QAM_6_0_LowCH19957-1710.7



Band4_1_4MHz_QPSK_6_0_MidCH20175-1732.5



Band4_1_4MHz_16QAM_6_0_MidCH20175-1732.5



Band4_1_4MHz_QPSK_6_0_HighCH20393-1754.3



Band4_1_4MHz_16QAM_6_0_HighCH20393-1754.3



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Band4_3MHz_QPSK_15_0_LowCH19965-1711.5



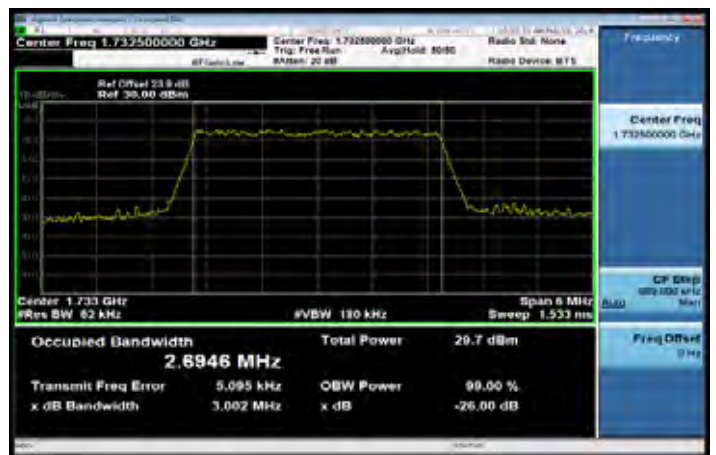
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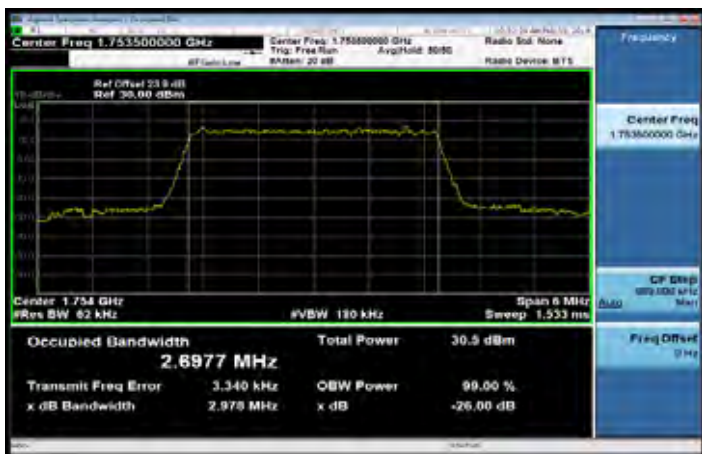
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Band4_3MHz_16QAM_15_0_MidCH20175-1732.5



Band4_3MHz_QPSK_15_0_HighCH20385-1753.5



Band4_3MHz_16QAM_15_0_HighCH20385-1753.5



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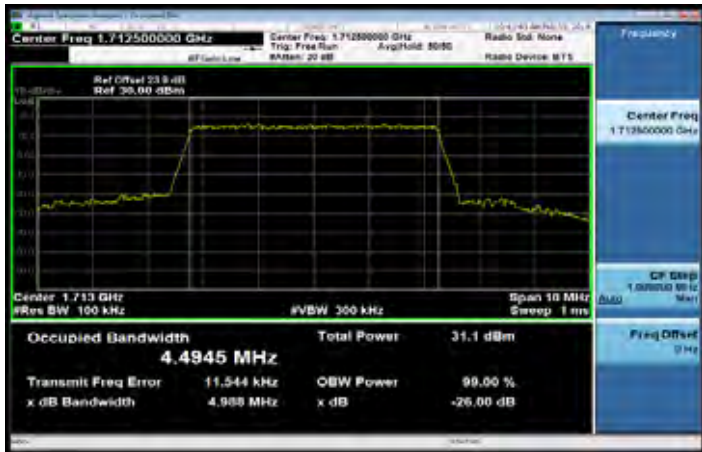
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Band4_5MHz_QPSK_25_0_LowCH19975-1712.5



Band4_5MHz_16QAM_25_0_LowCH19975-1712.5



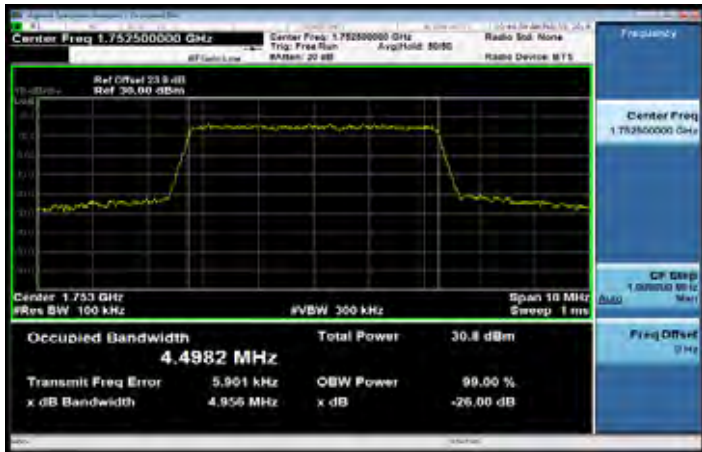
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Band4_5MHz_16QAM_25_0_MidCH20175-1732.5



Band4_5MHz_QPSK_25_0_HighCH20375-1752.5



Band4_5MHz_16QAM_25_0_HighCH20375-1752.5



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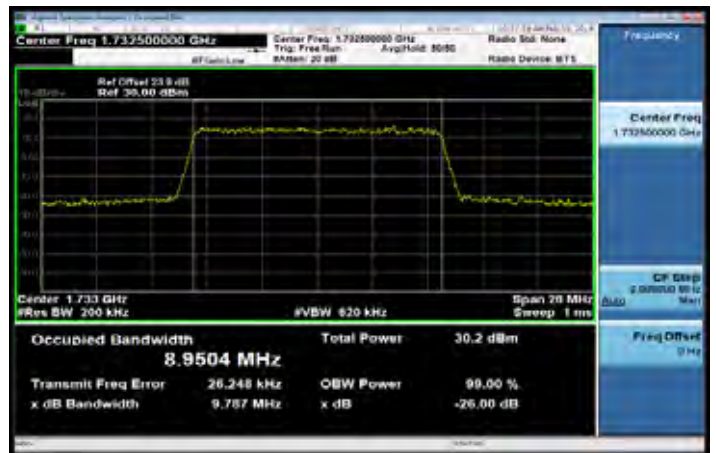
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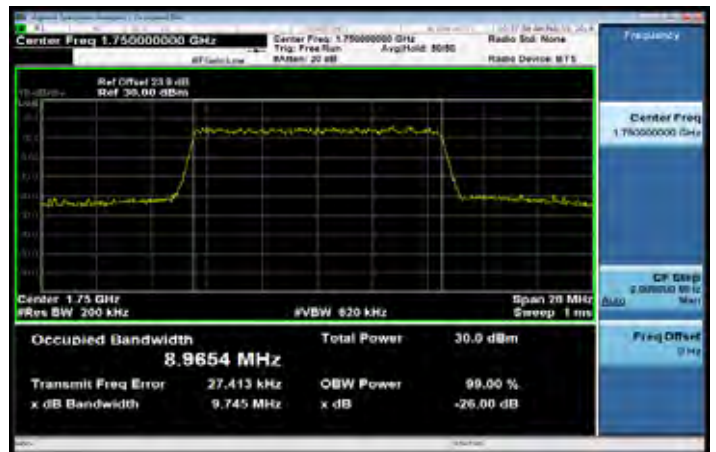
Band4_10MHz_16QAM_50_0_MidCH20175-1732.5



Band4_10MHz_QPSK_50_0_HighCH20350-1750



Band4_10MHz_16QAM_50_0_HighCH20350-1750



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Band4_15MHz_QPSK_75_0_LowCH20025-1717.5



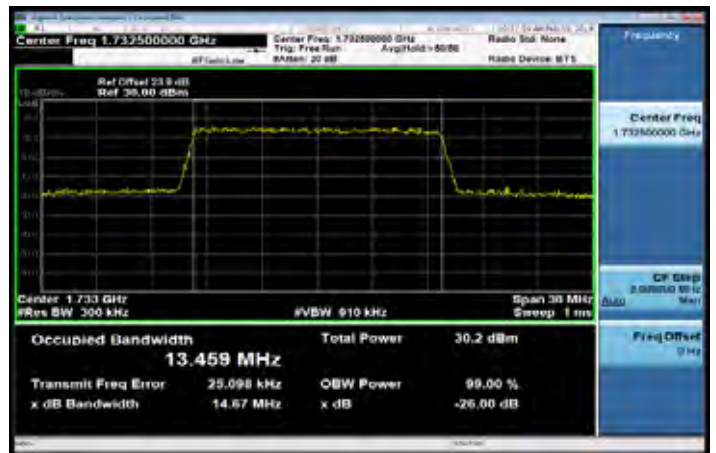
Band4_15MHz_16QAM_75_0_LowCH20025-1717.5



Band4_15MHz_QPSK_75_0_MidCH20175-1732.5



Band4_15MHz_16QAM_75_0_MidCH20175-1732.5



Band4_15MHz_QPSK_75_0_HighCH20325-1747.5



Band4_15MHz_16QAM_75_0_HighCH20325-1747.5



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Band4_20MHz_QPSK_100_0_LowCH20050-1720



Band4_20MHz_16QAM_100_0_LowCH20050-1720



Band4_20MHz_QPSK_100_0_MidCH20175-1732.5



Band4_20MHz_16QAM_100_0_MidCH20175-1732.5



Band4_20MHz_QPSK_100_0_HighCH20300-1745



Band4_20MHz_16QAM_100_0_HighCH20300-1745



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Band5_1_4MHz_QPSK_6_0_LowCH20407-824.7



Band5_1_4MHz_16QAM_6_0_LowCH20407-824.7



Band5_1_4MHz_QPSK_6_0_MidCH20525-836.5



Band5_1_4MHz_16QAM_6_0_MidCH20525-836.5



Band5_1_4MHz_QPSK_6_0_HighCH20643-848.3



Band5_1_4MHz_16QAM_6_0_HighCH20643-848.3



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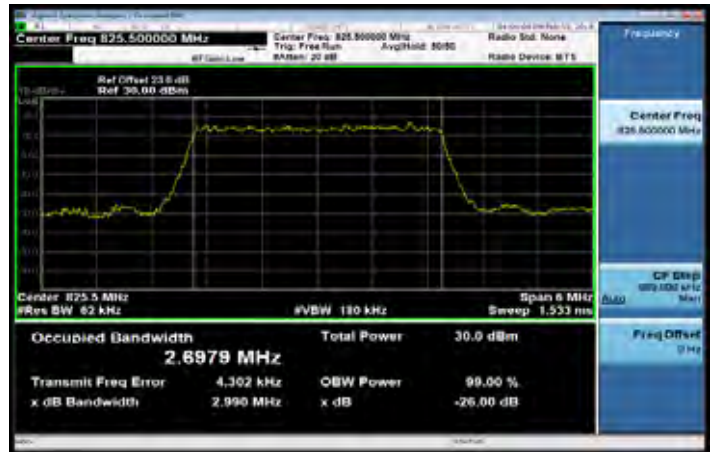
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Band5_3MHz_QPSK_15_0_LowCH20415-825.5



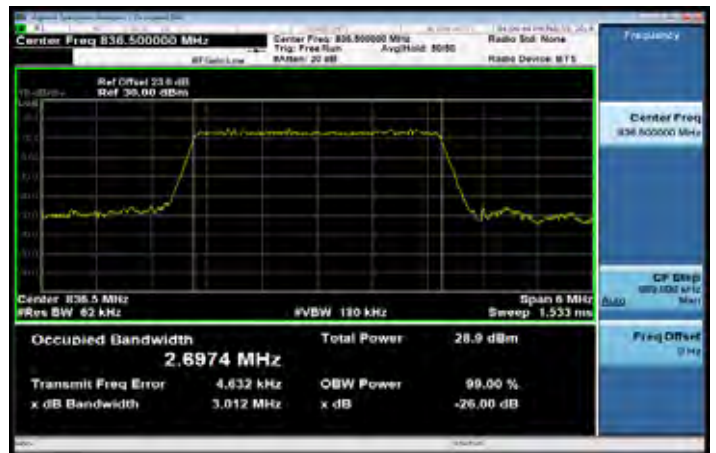
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Band5_3MHz_QPSK_15_0_MidCH20525-836.5



Band5_3MHz_16QAM_15_0_MidCH20525-836.5



Band5_3MHz_QPSK_15_0_HighCH20635-847.5



Band5_3MHz_16QAM_15_0_HighCH20635-847.5



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Band5_5MHz_QPSK_25_0_LowCH20425-826.5



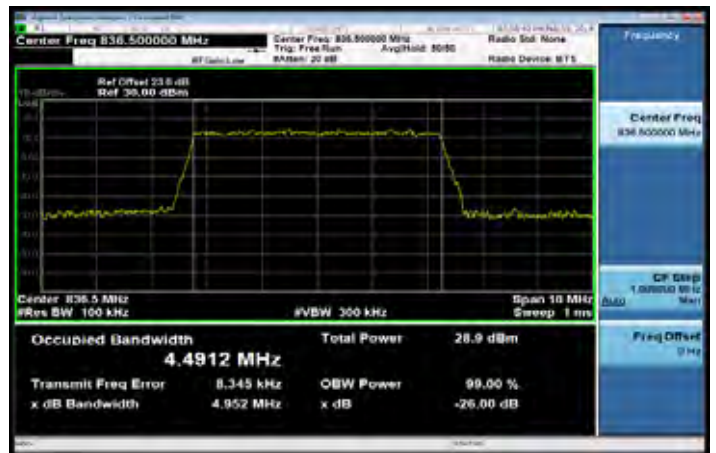
Band5_5MHz_16QAM_25_0_LowCH20425-826.5



Band5_5MHz_QPSK_25_0_MidCH20525-836.5



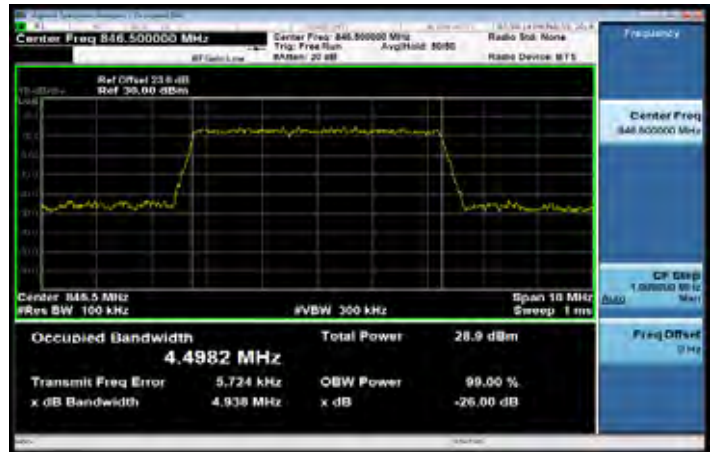
Band5_5MHz_16QAM_25_0_MidCH20525-836.5



Band5_5MHz_QPSK_25_0_HighCH20625-846.5



Band5_5MHz_16QAM_25_0_HighCH20625-846.5



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Band5_10MHz_QPSK_50_0_LowCH20450-829



Band5_10MHz_16QAM_50_0_LowCH20450-829



Band5_10MHz_QPSK_50_0_MidCH20525-836.5



Band5_10MHz_16QAM_50_0_MidCH20525-836.5



Band5_10MHz_QPSK_50_0_HighCH20600-844



Band5_10MHz_16QAM_50_0_HighCH20600-844



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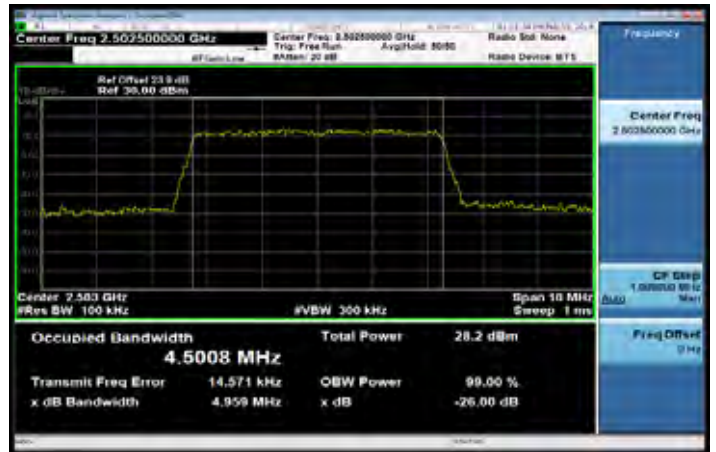
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Band7_5MHz_QPSK_25_0_LowCH20775-2502.5



Band7_5MHz_16QAM_25_0_LowCH20775-2502.5



Band7_5MHz_QPSK_25_0_MidCH21100-2535



Band7_5MHz_16QAM_25_0_MidCH21100-2535



Band7_5MHz_QPSK_25_0_HighCH21425-2567.5



Band7_5MHz_16QAM_25_0_HighCH21425-2567.5



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Band7_10MHz_QPSK_50_0_LowCH20800-2505



Band7_10MHz_16QAM_50_0_LowCH20800-2505



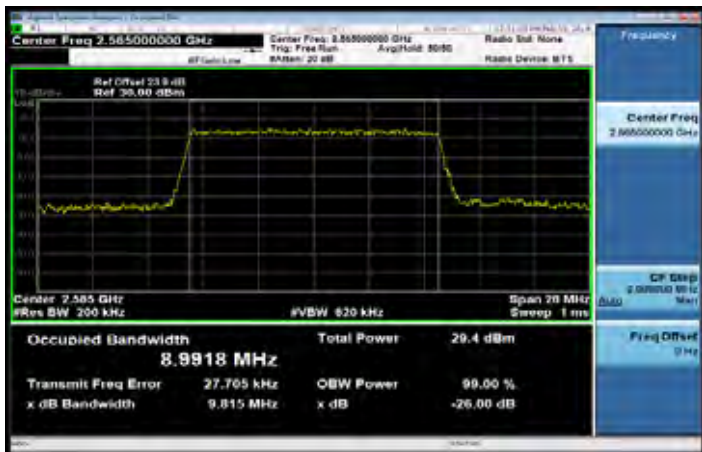
Band7_10MHz_QPSK_50_0_MidCH21100-2535



Band7_10MHz_16QAM_50_0_MidCH21100-2535



Band7_10MHz_QPSK_50_0_HighCH21400-2565



Band7_10MHz_16QAM_50_0_HighCH21400-2565



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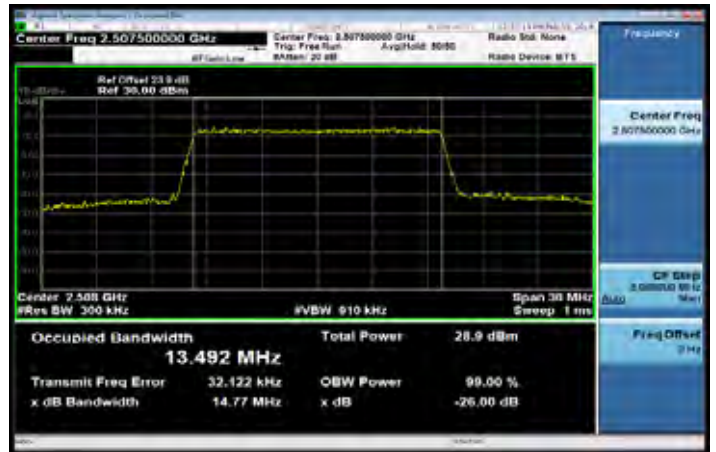
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Band7_15MHz_QPSK_75_0_LowCH20825-2507.5



Band7_15MHz_16QAM_75_0_LowCH20825-2507.5



Band7_15MHz_QPSK_75_0_MidCH21100-2535



Band7_15MHz_16QAM_75_0_MidCH21100-2535



Band7_15MHz_QPSK_75_0_HighCH21375-2562.5



Band7_15MHz_16QAM_75_0_HighCH21375-2562.5

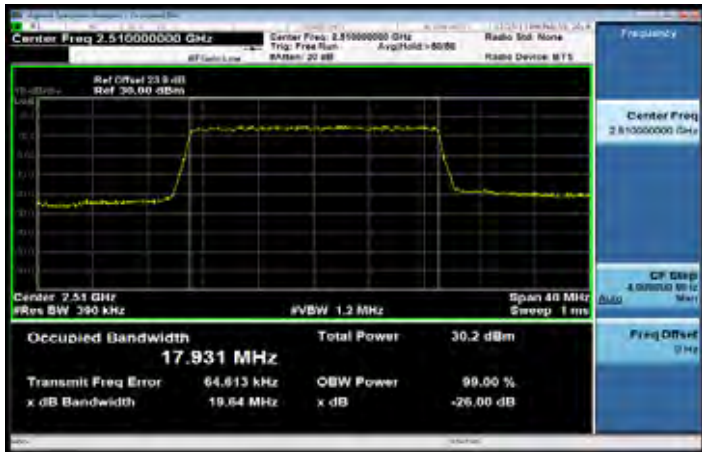


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Band7_20MHz_QPSK_100_0_LowCH20850-2510



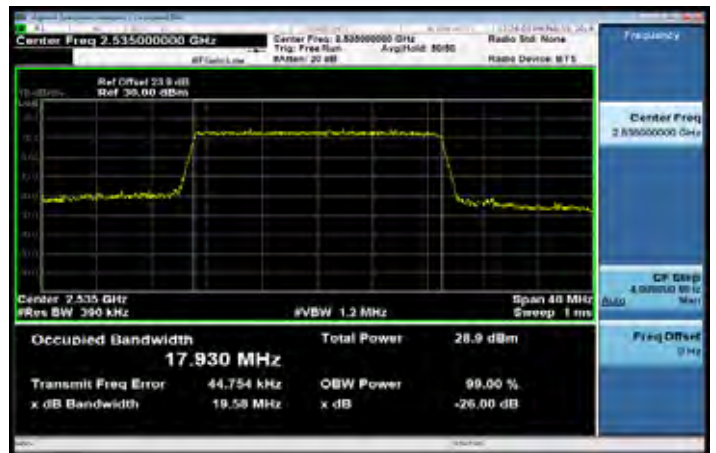
Band7_20MHz_16QAM_100_0_LowCH20850-2510



Band7_20MHz_QPSK_100_0_MidCH21100-2535



Band7_20MHz_16QAM_100_0_MidCH21100-2535



Band7_20MHz_QPSK_100_0_HighCH21350-2560



Band7_20MHz_16QAM_100_0_HighCH21350-2560



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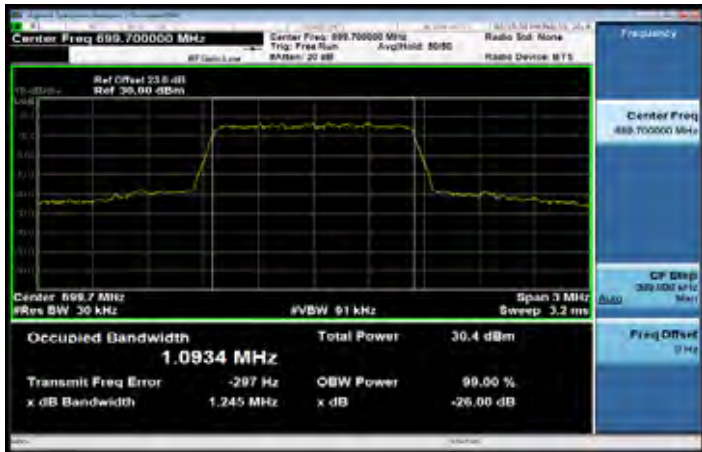
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Band12_1_4MHz_16QAM_6_0_LowCH23017-699.7



Band12_1_4MHz_QPSK_6_0_MidCH23095-707.5



Band12_1_4MHz_16QAM_6_0_MidCH23095-707.5



Band12_1_4MHz_QPSK_6_0_HighCH23173-715.3



Band12_1_4MHz_16QAM_6_0_HighCH23173-715.3



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Band12_3MHz_16QAM_15_0_LowCH23025-700.5



Band12_3MHz_QPSK_15_0_MidCH23095-707.5



Band12_3MHz_16QAM_15_0_MidCH23095-707.5



Band12_3MHz_QPSK_15_0_HighCH23165-714.5



Band12_3MHz_16QAM_15_0_HighCH23165-714.5



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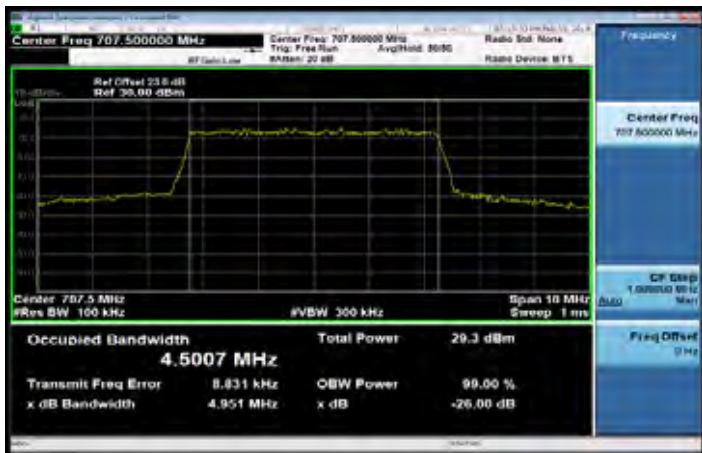
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Band12_5MHz_16QAM_25_0_LowCH23035-701.5



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Band12_5MHz_16QAM_25_0_MidCH23095-707.5



Band12_5MHz_QPSK_25_0_HighCH23155-713.5



Band12_5MHz_16QAM_25_0_HighCH23155-713.5



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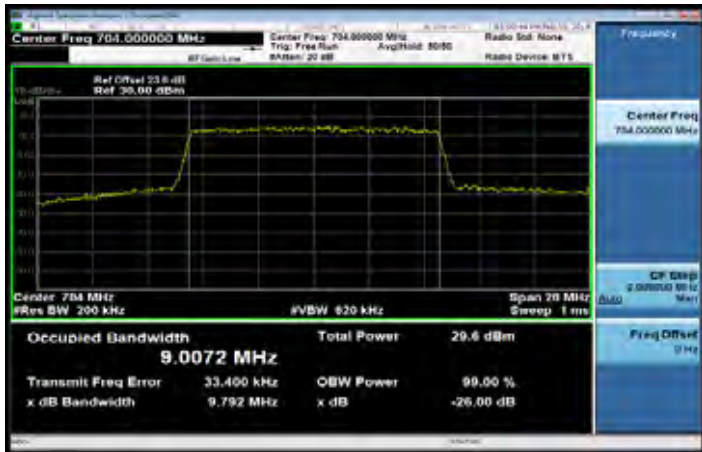
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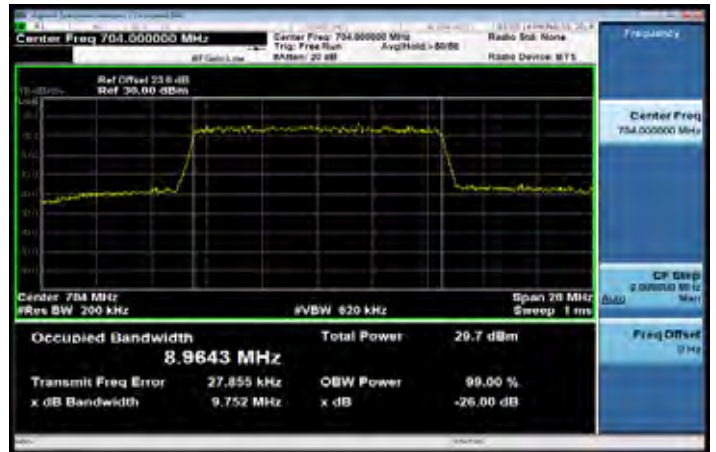
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Band12_10MHz_QPSK_50_0_LowCH23060-704



Band12_10MHz_16QAM_50_0_LowCH23060-704



Band12_10MHz_QPSK_50_0_MidCH23095-707.5



Band12_10MHz_16QAM_50_0_MidCH23095-707.5



Band12_10MHz_QPSK_50_0_HighCH23130-711



Band12_10MHz_16QAM_50_0_HighCH23130-711



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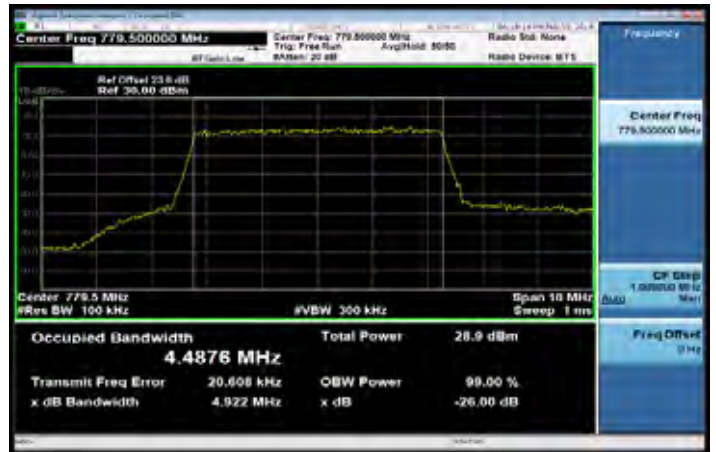
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Band13_5MHz_QPSK_25_0_LowCH23205-779.5



Band13_5MHz_16QAM_25_0_LowCH23205-779.5



Band13_5MHz_QPSK_25_0_MidCH23230-782



Band13_5MHz_16QAM_25_0_MidCH23230-782



Band13_5MHz_QPSK_25_0_HighCH23255-784.5



Band13_5MHz_16QAM_25_0_HighCH23255-784.5



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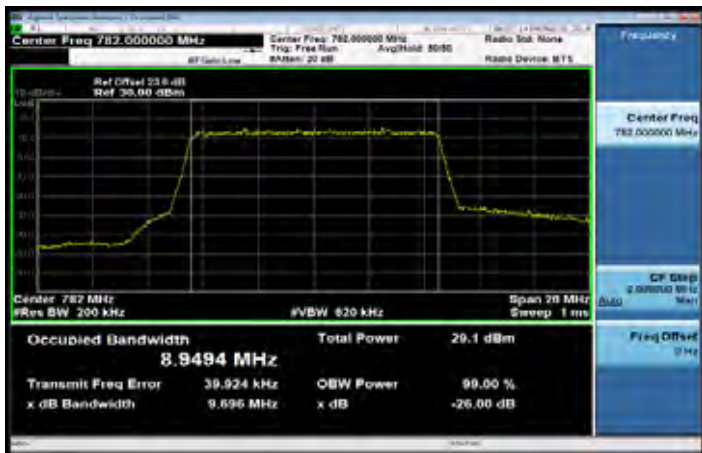
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Band25_1_4MHz_QPSK_6_0_MidCH26365-1882.5



Band13_10MHz_16QAM_50_0_MidCH23230-782



Band25_1_4MHz_QPSK_6_0_HighCH26683-1914.3



Band25_1_4MHz_QPSK_6_0_LowCH26047-1850.7



Band25_1_4MHz_16QAM_6_0_LowCH26047-1850.7



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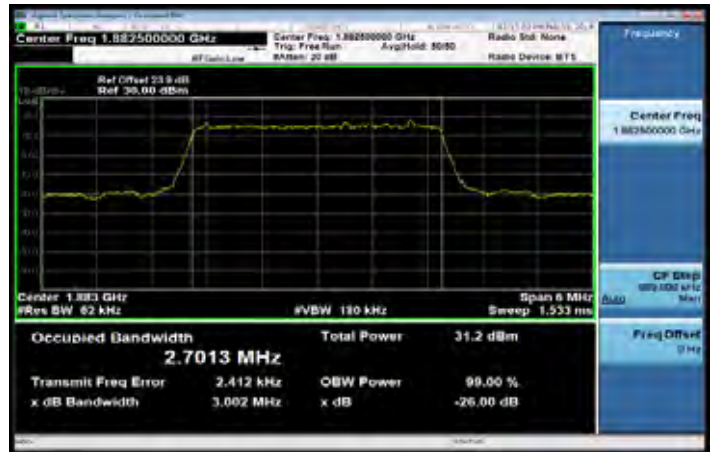
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Band25_1_4MHz_16QAM_6_0_MidCH26365-1882.5



Band25_3MHz_OPSK_15_0_MidCH26365-1882.5



Band25_1_4MHz_16QAM_6_0_HighCH26683-1914.3



Band25_3MHz_OPSK_15_0_HighCH26675-1913.5



Band25_3MHz_OPSK_15_0_LowCH26055-1851.5



Band25_3MHz_16QAM_15_0_LowCH26055-1851.5



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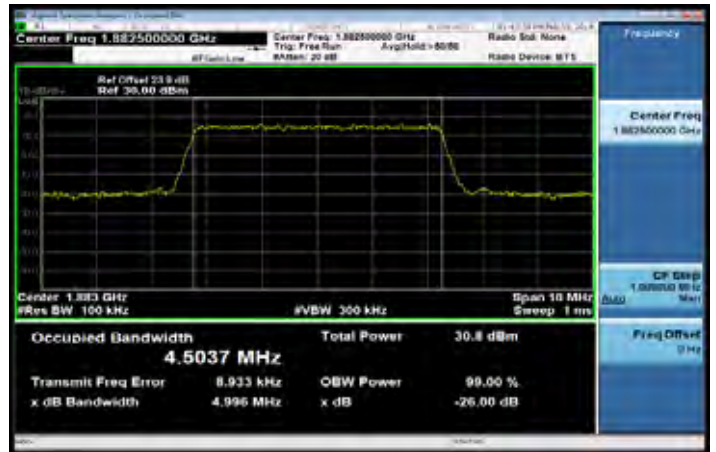
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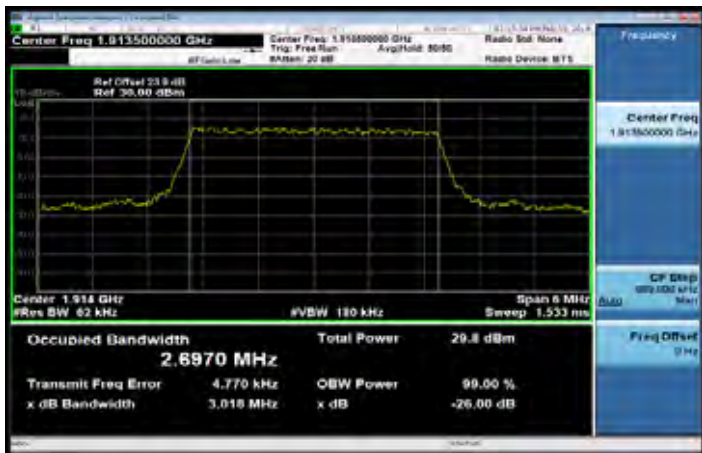
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Band25_5MHz_OPSK_25_0_MidCH26365-1882.5



Band25_3MHz_16QAM_15_0_HighCH26675-1913.5



Band25_5MHz_OPSK_25_0_HighCH26665-1912.5



Band25_5MHz_OPSK_25_0_LowCH26065-1852.5



Band25_5MHz_16QAM_25_0_LowCH26065-1852.5



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Band25_5MHz_16QAM_25_0_MidCH26365-1882.5



Band25_10MHz_QPSK_50_0_MidCH26365-1882.5



Band25_5MHz_16QAM_25_0_HighCH26665-1912.5



Band25_10MHz_QPSK_50_0_HighCH26640-1910



Band25_10MHz_QPSK_50_0_LowCH26090-1855



Band25_10MHz_16QAM_50_0_LowCH26090-1855



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Band25_10MHz_16QAM_50_0_MidCH26365-1882.5



Band25_15MHz_QPSK_75_0_MidCH26365-1882.5



Band25_10MHz_16QAM_50_0_HighCH26640-1910



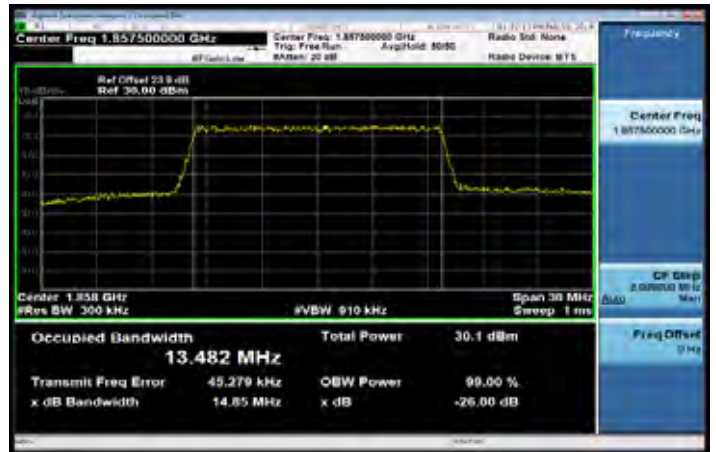
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Band25_15MHz_QPSK_75_0_LowCH26115-1857.5



Band25_15MHz_16QAM_75_0_LowCH26115-1857.5



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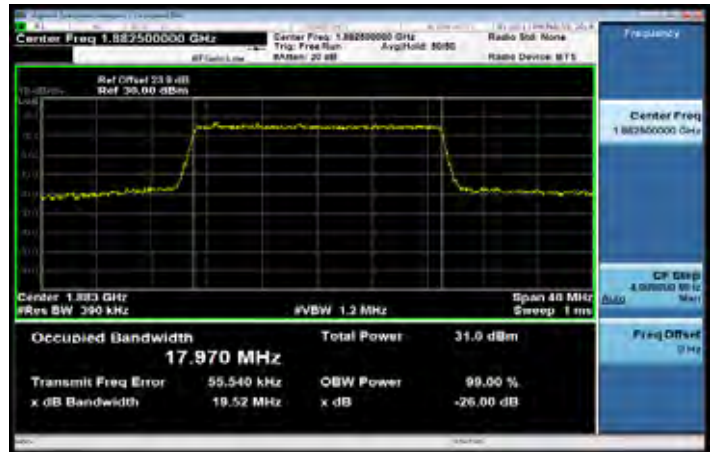
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Band25_15MHz_16QAM_75_0_MidCH26365-1882.5



Band25_20MHz_QPSK_100_0_MidCH26365-1882.5



Band25_15MHz_16QAM_75_0_HighCH26615-1907.5



Band25_20MHz_QPSK_100_0_HighCH26590-1905



Band25_20MHz_QPSK_100_0_LowCH26140-1860



Band25_20MHz_16QAM_100_0_LowCH26140-1860



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Band25_20MHz_16QAM_100_0_MidCH26365-1882.5



Band26_1_4MHz_QPSK_6_0_MidCH26865-831.5



Band25_20MHz_16QAM_100_0_HighCH26590-1905



Band26_1_4MHz_QPSK_6_0_HighCH27033-848.3



Band26_1_4MHz_QPSK_6_0_LowCH26697-814.7



Band26_1_4MHz_16QAM_6_0_LowCH26697-814.7



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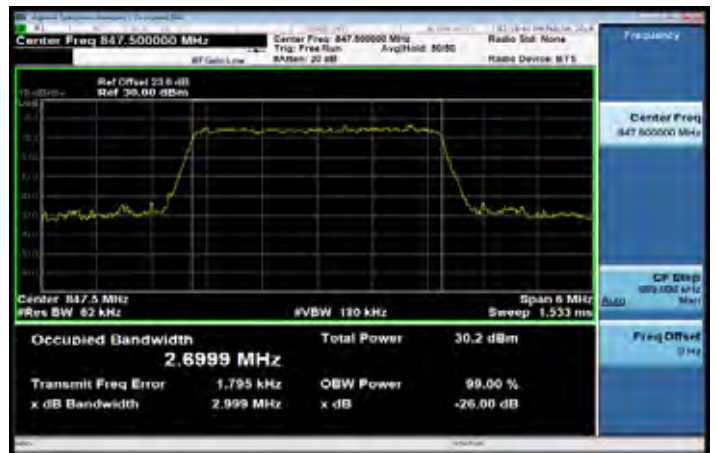
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Band26_1_4MHz_16QAM_6_0_HighCH27033-848.3



Band26_3MHz_QPSK_15_0_HighCH27025-847.5



Band26_3MHz_QPSK_15_0_LowCH26705-815.5



Band26_3MHz_16QAM_15_0_LowCH26705-815.5



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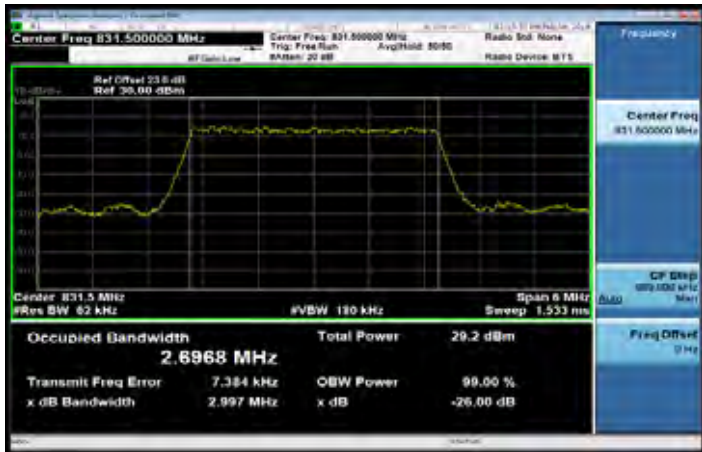
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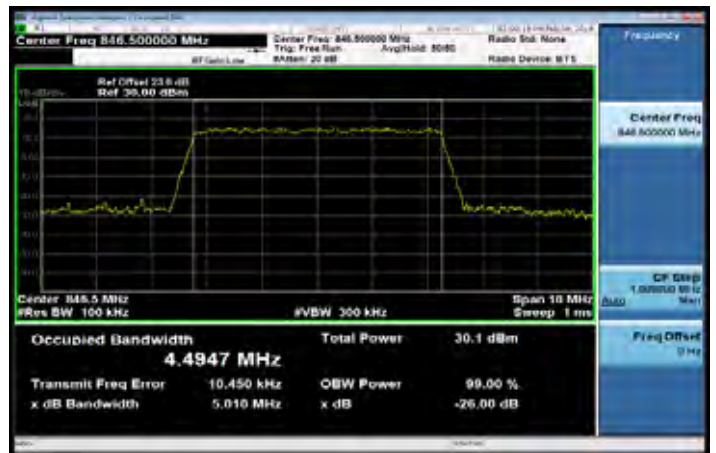
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Band26_3MHz_16QAM_15_0_HighCH27025-847.5



Band26_5MHz_QPSK_25_0_HighCH27015-846.5



Band26_5MHz_QPSK_25_0_LowCH26715-816.5



Band26_5MHz_16QAM_25_0_LowCH26715-816.5



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Band26_5MHz_16QAM_25_0_HighCH27015-846.5



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Band26_10MHz_QPSK_50_0_LowCH26750-820



Band26_10MHz_16QAM_50_0_LowCH26750-820



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Band26_15MHz_QPSK_75_0_MidCH26865-831.5



Band26_10MHz_16QAM_50_0_HighCH26990-844



Band26_15MHz_QPSK_75_0_HighCH26965-841.5



Band26_15MHz_QPSK_75_0_LowCH26775



Band26_15MHz_16QAM_75_0_LowCH26775



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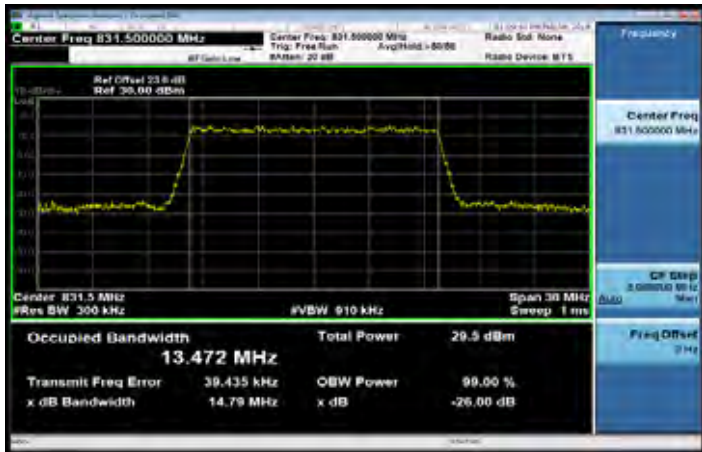
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Part 90_Band26_1_4MHz_QPSK_6_0_MidCH26740



Band26_15MHz_16QAM_75_0_HighCH26965-841.5



Part 90_Band26_1_4MHz_QPSK_6_0_HighCH26783



Part 90_Band26_1_4MHz_QPSK_6_0_LowCH26697



Part 90_Band26_1_4MHz_16QAM_6_0_LowCH26697



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Part 90_Band26_3MHz_QPSK_15_0_MidCH26740



Part 90_Band26_1_4MHz_16QAM_6_0_HighCH26783



Part 90_Band26_3MHz_QPSK_15_0_HighCH26775



Part 90_Band26_3MHz_QPSK_15_0_LowCH26705



Part 90_Band26_3MHz_16QAM_15_0_LowCH26705



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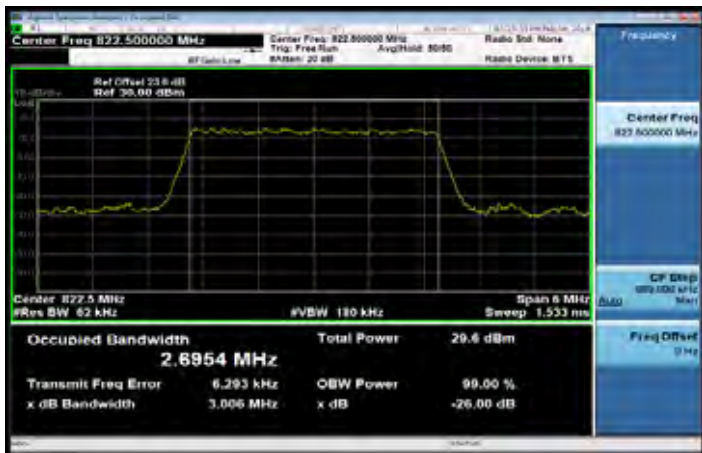
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Part 90_Band26_5MHz_QPSK_25_0_MidCH26740



Part 90_Band26_3MHz_16QAM_15_0_HighCH26775



Part 90_Band26_5MHz_QPSK_25_0_HighCH26765



Part 90_Band26_5MHz_QPSK_25_0_LowCH26715-816.5



Part 90_Band26_5MHz_16QAM_25_0_LowCH26715-816.5



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Part 90_Band26_10MHz_16QAM_50_0_MidCH26740



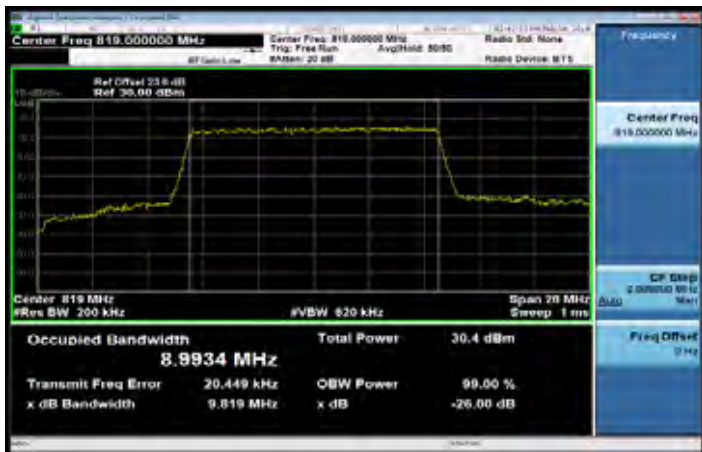
Part 90_Band26_5MHz_16QAM_25_0_HighCH26765



Band30_5MHz_QPSK_25_0_LowCH27685



Part 90_Band26_10MHz_QPSK_50_0_MidCH26740



Band30_5MHz_QPSK_25_0_MidCH27710



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Band30_5MHz_16QAM_25_0_LowCH27685



Band30_10MHz_QPSK_50_0_Mid27710



Band30_5MHz_16QAM_25_0_MidCH27710



Band30_10MHz_16QAM_50_0_Mid27710



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Band41_5MHz_QPSK_25_0_MidCH40620



Band41_5MHz_16QAM_25_0_MidCH40620



Band41_5MHz_QPSK_25_0_HighCH41565



Band41_5MHz_16QAM_25_0_HighCH41565



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Band41_10MHz_QPSK_50_0_MidCH40620



Band41_10MHz_16QAM_50_0_MidCH40620



Band41_10MHz_QPSK_50_0_HighCH41540



Band41_10MHz_16QAM_50_0_HighCH41540



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Band41_15MHz_16QAM_75_0_MidCH40620



Band41_15MHz_QPSK_75_0_HighCH41515



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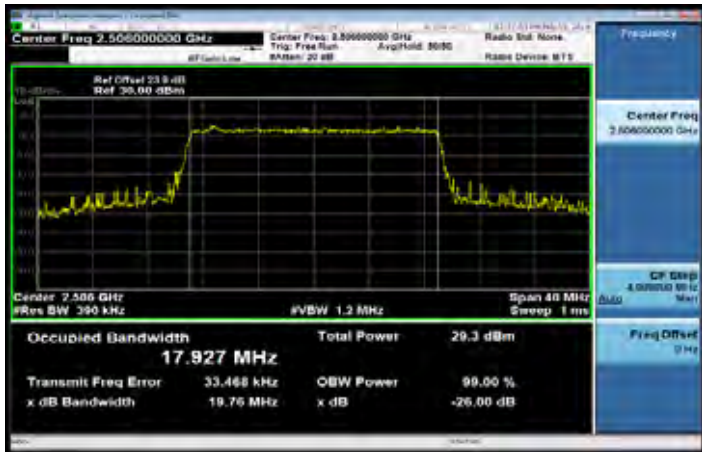
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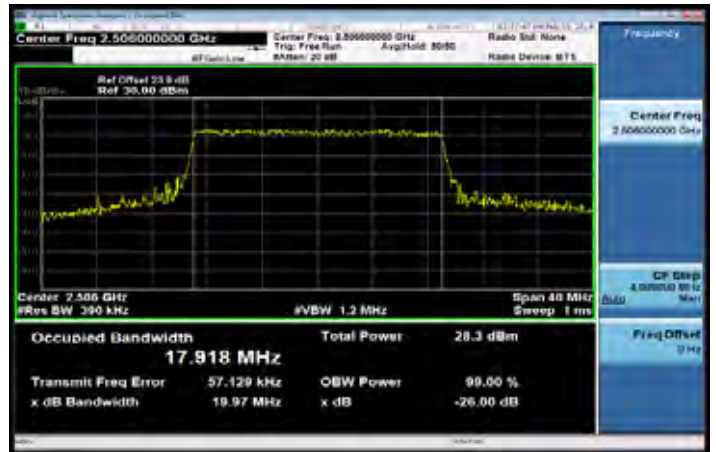
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Band41_20MHz_16QAM_100_0_MidCH40620



Band41_20MHz_QPSK_100_0_HighCH41490



Band41_20MHz_16QAM_100_0_HighCH41490



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9. OUT OF BAND EMISSION AT ANTENNA TERMINALS

9.1. Standard Applicable

FCC §22.917(a), §24.238(a), §27.53(h), Out of band emissions. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

FCC §27.53(c)

(c) For operations in the 746–758 MHz band and the 776–788 MHz band, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following:

(2) On any frequency outside the 776–788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log(P)$ dB (-13dBm)

(4) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than $65 + 10 \log(P)$ dB in a 6.25 kHz band segment, for mobile and portable stations;

§27.53 (f) For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions in the band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.

FCC §27.53(c) (5) & FCC §27.53(g)

Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

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FCC §27.53(h) (3)

Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

FCC §27.53(m) (4) (6)

For mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log (P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log (P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log (P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less than $43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log (P)$ dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

Measurement procedure. Compliance with these rules is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed; for mobile digital stations, in the 1 megahertz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least two percent may be employed, except when the 1 megahertz band is 2495-2496 MHz, in which case a resolution bandwidth of at least one percent may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e. 1 megahertz or 1 percent of emission bandwidth, as specified; or 1 megahertz or 2 percent for mobile digital stations, except in the band 2495-2496 MHz). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power. With respect to television operations, measurements must be made of the separate visual and aural operating powers at sufficiently frequent intervals to ensure compliance with the rules.

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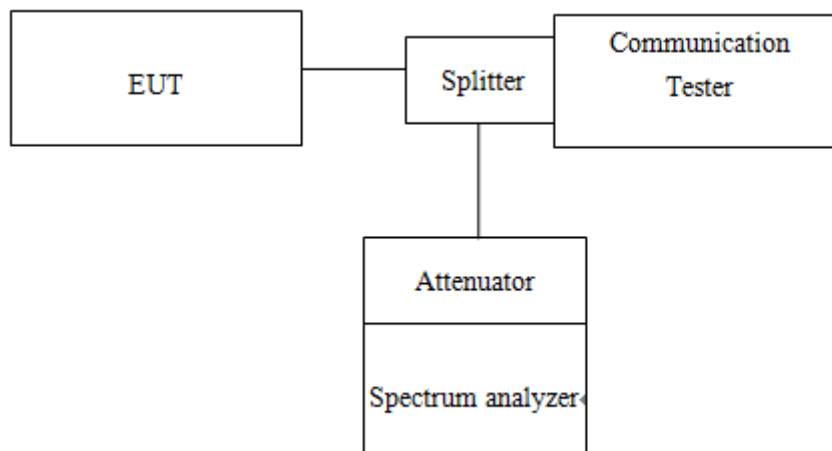
§90.691 Emission mask requirements for EA-based systems.

(a) 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:

(1) 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 $116 \text{ Log}_{10}(f/6.1)$ decibels or $50 + 10 \text{ Log}_{10}(P)$ 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.

(2) 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 $43 + 10 \text{ Log}_{10}(P)$ 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.

9.2. Test SET-UP



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9.3. Measurement Procedure Conducted Emission

The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation. The resolution bandwidth of the spectrum analyzer was set at 1MHz, sufficient scans were taken to show the out of band Emissions if any up to 10th harmonic.

1. To connect Antenna Port of EUT to Spectrum.
2. Set RBW = 1MHz & VBW = 1MHz on Spectrum.
3. Allow trace to fully stabilize
4. Repeat above procedures until all default test channel measured were complete.

Band Edge

1. To connect Antenna Port of EUT to Spectrum.
2. The band edge of low and high channels for the highest RF powers was measured. Setting RBW \geq 1% EBW.
3. Allow trace to fully stabilize
4. Repeat above procedures until all default test channel measured were complete.

9.4. Measurement Equipment Used

Conducted Emission (measured at antenna port) Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	KEYSIGHT	N9010A	MY51440113	06/20/2017	06/19/2018
Communication Tester	Anritsu	MT8820C	6201107337	06/11/2017	06/10/2018
Coaxial Cable 30cm	WOKEN	00100A1F1A 195C	RF01	12/24/2017	12/23/2018
Temperature Chamber	TERCHY	MHK-120LK	1020582	06/13/2017	06/12/2018
DC Block	PASTERNAK	PE8210	RF29	12/24/2017	12/23/2018
Splitter	RF-LAMBAD	RFLT2W1G1 8G	RF35	12/24/2017	12/23/2018
Attenuator	WOKEN	218FS-10	RF23	12/24/2017	12/23/2018
DC Power Supply	Agilent	E3640A	MY53140006	05/02/2017	05/01/2018

9.5. Measurement Result:

Refer to next pages.

NOTE: The occurrence of the spike on the conducted emission is the signal of the fundamental emission.

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Band Edge
WCDMA_B2_LowCH9262-1852.4



HSDPA_B2_HighCH9538-1907.6



WCDMA_B2_HighCH9538-1907.6



HSUPA_B2_LowCH9262-1852.4



HSDPA_B2_LowCH9262-1852.4



HSUPA_B2_HighCH9538-1907.6



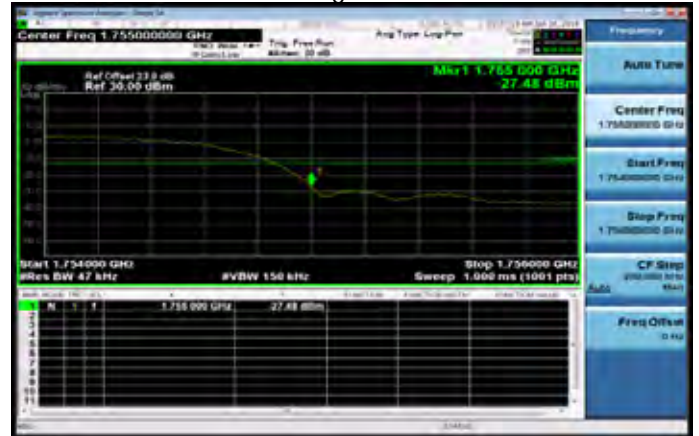
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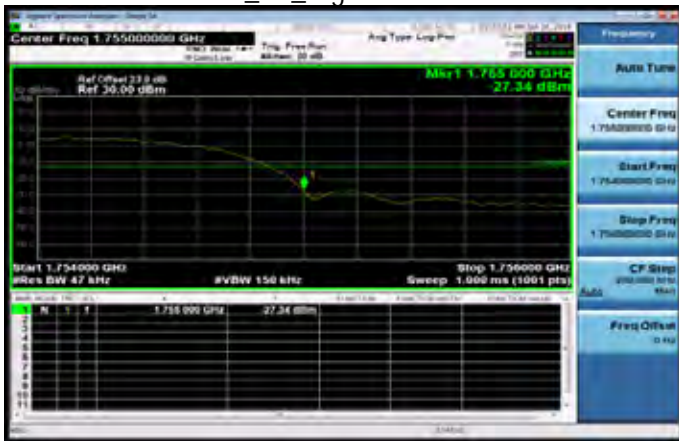
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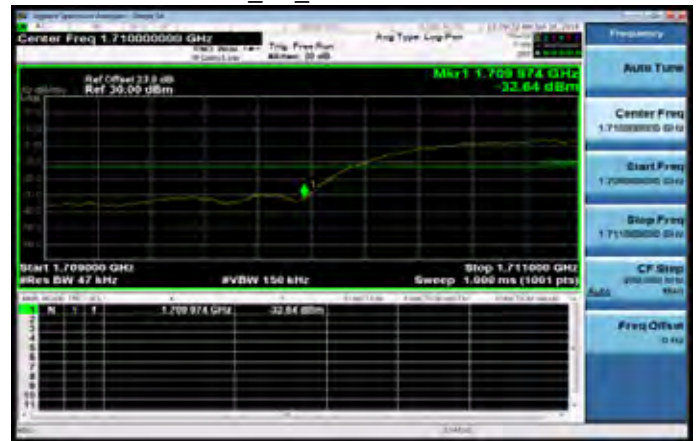
HSDPA_B4_HighCH1513-1752.6



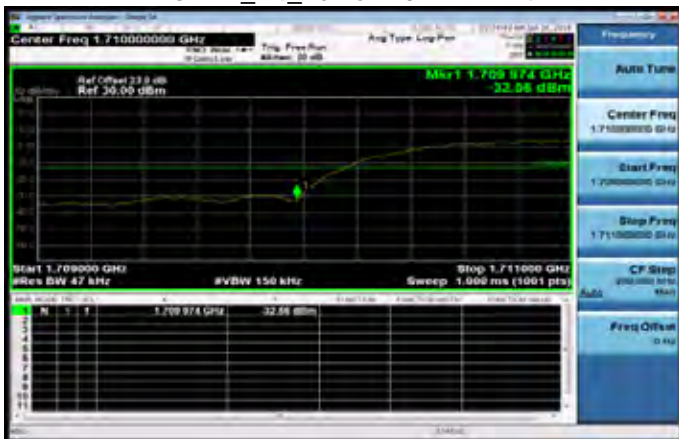
WCDMA_B4_HighCH1513-1752.6



HSUPA_B4_LowCH1312-1712.4



HSDPA_B4_LowCH1312-1712.4



HSUPA_B4_HighCH1513-1752.6



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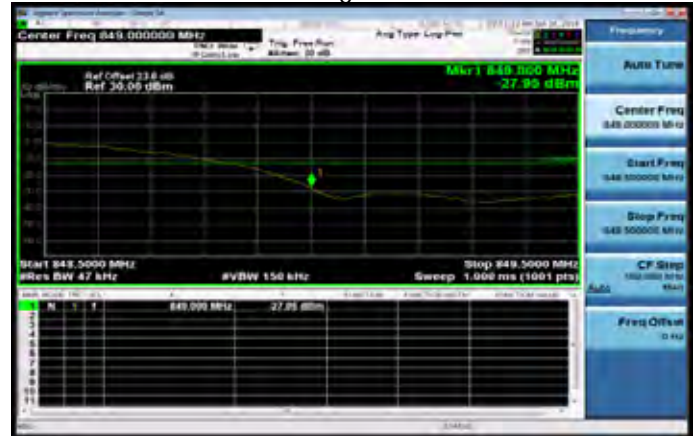
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WCDMA_B5_LowCH4132-826.4



HSDPA_B5_HighCH4233-846.6



WCDMA_B5_HighCH4233-846.6



HSUPA_B5_LowCH4132-826.4



HSDPA_B5_LowCH4132-826.4



HSUPA_B5_HighCH4233-846.6



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Band2_1_4MHz_QPSK_6_0_HighCH19193-1909.3



Band2_1_4MHz_QPSK_1_5_HighCH19193-1909.3



Band2_3MHz_QPSK_1_0_LowCH18615-1851.5



Band2_1_4MHz_QPSK_6_0_LowCH18607-1850.7



Band2_3MHz_QPSK_1_14_HighCH19185-1908.5



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Band2_5MHz_QPSK_1_24_HighCH19175-1907.5



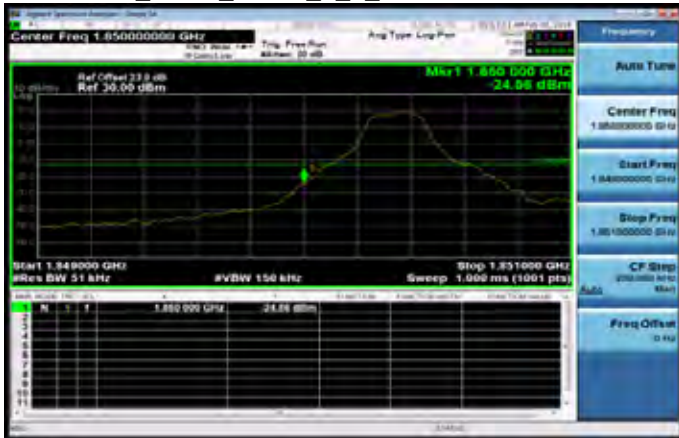
Band2_3MHz_QPSK_15_0_HighCH19185-1908.5



Band2_5MHz_QPSK_25_0_LowCH18625-1852.5



Band2_5MHz_QPSK_1_0_LowCH18625-1852.5



Band2_5MHz_QPSK_25_0_HighCH19175-1907.5



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Band2_10MHz_QPSK_1_49_HighCH19150-1905



Band2_15MHz_QPSK_1_0_LowCH18675-1857.5



Band2_10MHz_QPSK_50_0_LowCH18650-1855



Band2_15MHz_QPSK_1_74_HighCH19125-1902.5



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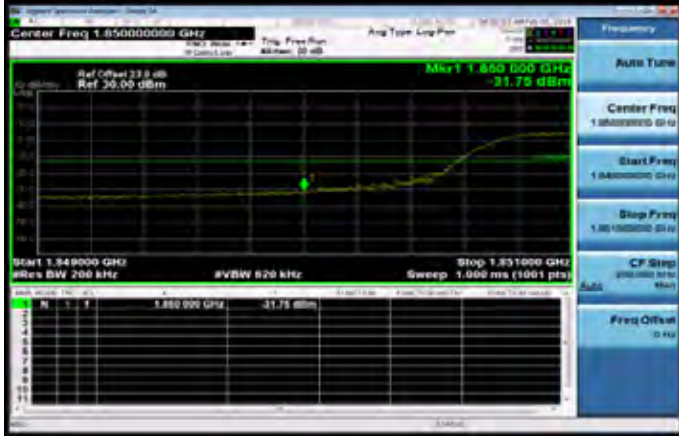
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Band2_20MHz_QPSK_1_99_HighCH19100-1900



Band2_15MHz_QPSK_75_0_HighCH19125-1902.5



Band2_20MHz_QPSK_100_0_LowCH18700-1860



Band2_20MHz_QPSK_1_0_LowCH18700-1860



Band2_20MHz_QPSK_100_0_HighCH19100-1900



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Band4_1_4MHz_QPSK_1_5_HighCH20393-1754.3



Band4_3MHz_QPSK_1_0_LowCH19965-1711.5



Band4_1_4MHz_QPSK_6_0_LowCH19957-1710.7



Band4_3MHz_QPSK_1_14_HighCH20385-1753.5



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Band4_5MHz_QPSK_1_24_HighCH20375-1752.5



Band4_3MHz_QPSK_15_0_HighCH20385-1753.5



Band4_5MHz_QPSK_25_0_LowCH19975-1712.5



Band4_5MHz_QPSK_1_0_LowCH19975-1712.5



Band4_5MHz_QPSK_25_0_HighCH20375-1752.5



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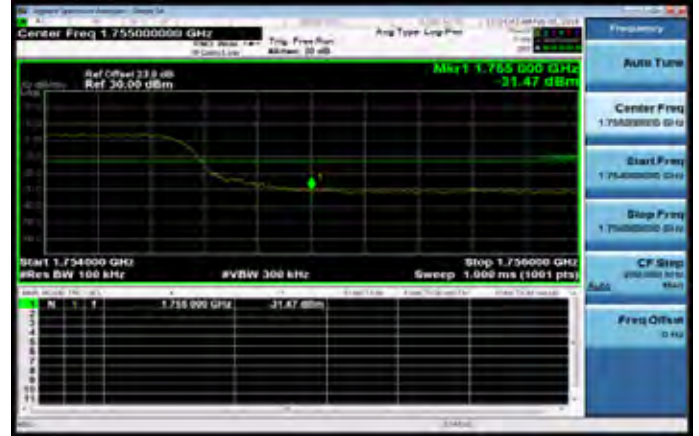
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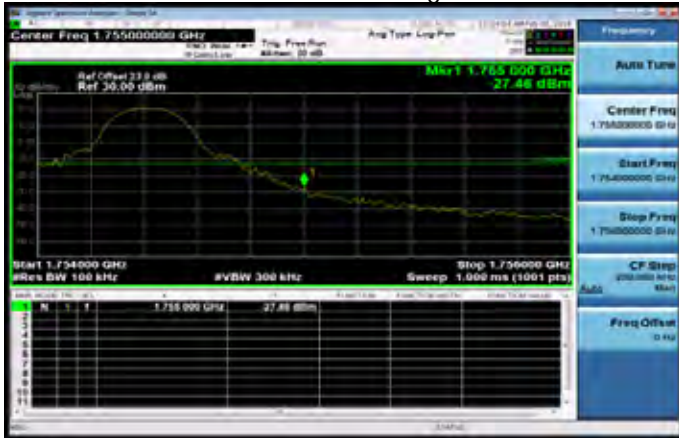
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Band4_10MHz_QPSK_50_0_HighCH20350-1750



Band4_10MHz_QPSK_1_49_HighCH20350-1750



Band4_15MHz_QPSK_1_0_LowCH20025-1717.5



Band4_10MHz_QPSK_50_0_LowCH20000-1715



Band4_15MHz_QPSK_1_74_HighCH20325-1747.5



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Band4_15MHz_QPSK_75_0_LowCH20025-1717.5



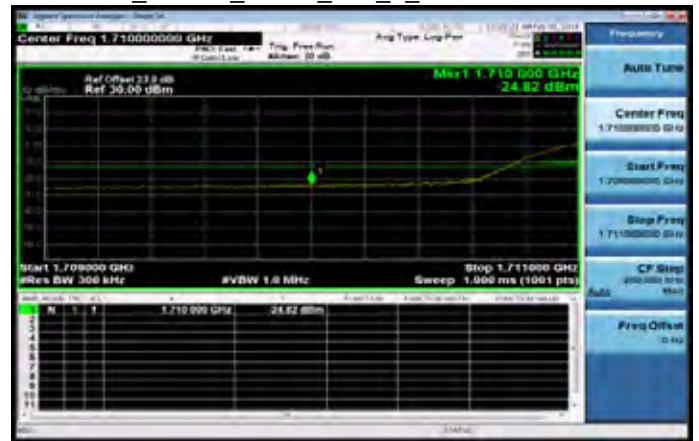
Band4_20MHz_QPSK_1_99_HighCH20300-1745



Band4_15MHz_QPSK_75_0_HighCH20325-1747.5



Band4_20MHz_QPSK_100_0_LowCH20050-1720



Band4_20MHz_QPSK_1_0_LowCH20050-1720



Band4_20MHz_QPSK_100_0_HighCH20300-1745



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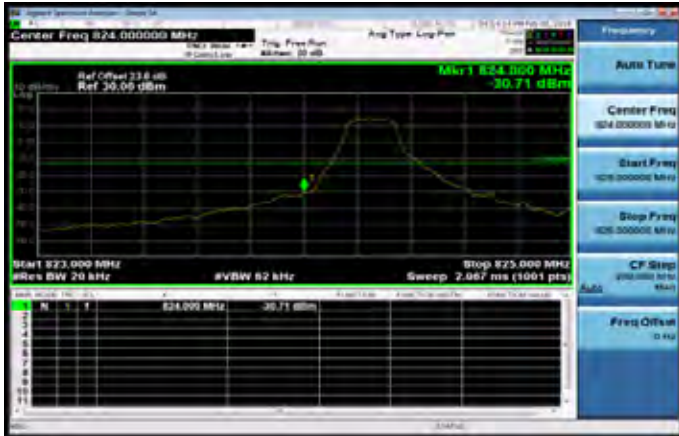
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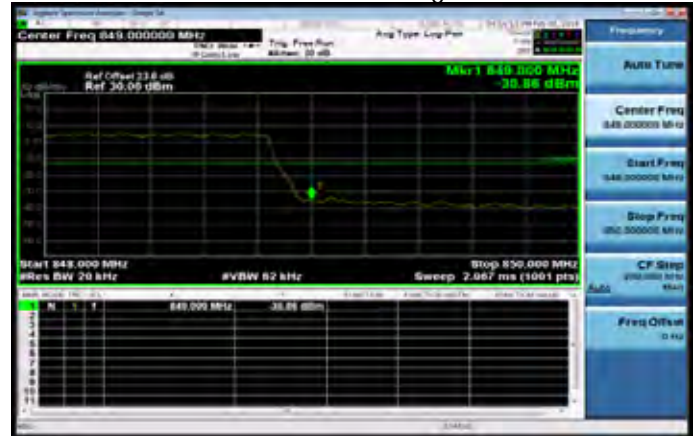
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Band5_1_4MHz_QPSK_1_0_LowCH20407-824.7



Band5_1_4MHz_QPSK_6_0_HighCH20643-848.3



Band5_1_4MHz_QPSK_1_5_HighCH20643-848.3



Band5_3MHz_QPSK_1_0_LowCH20415-825.5



Band5_1_4MHz_QPSK_6_0_LowCH20407-824.7



Band5_3MHz_QPSK_1_14_HighCH20635-847.5



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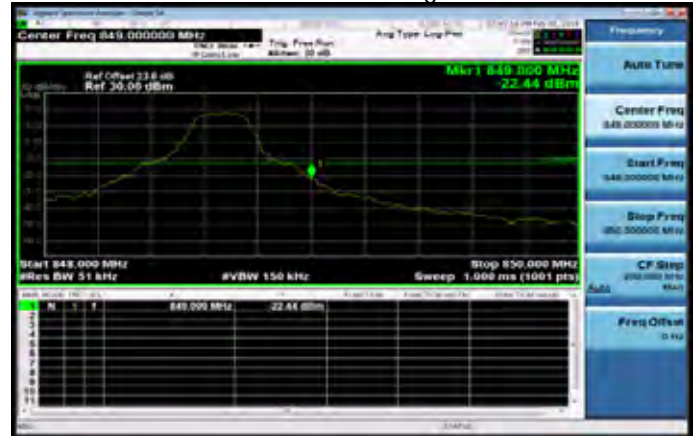
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Band5_3MHz_QPSK_15_0_LowCH20415-825.5



Band5_5MHz_QPSK_1_24_HighCH20625-846.5



Band5_3MHz_QPSK_15_0_HighCH20635-847.5



Band5_5MHz_QPSK_25_0_LowCH20425-826.5



Band5_5MHz_QPSK_1_0_LowCH20425-826.5



Band5_5MHz_QPSK_25_0_HighCH20625-846.5



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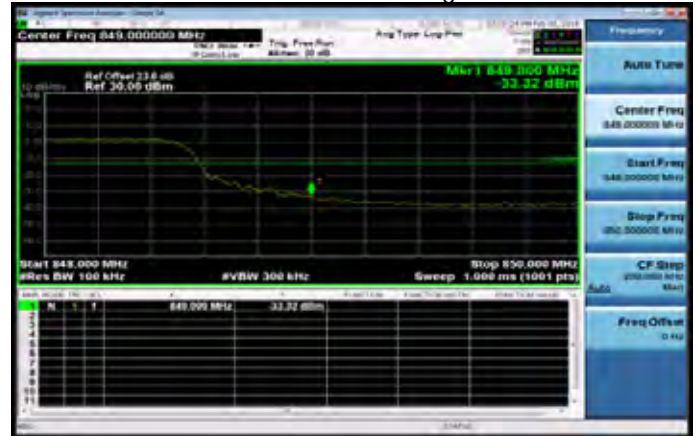
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Band5_10MHz_QPSK_1_0_LowCH20450-829



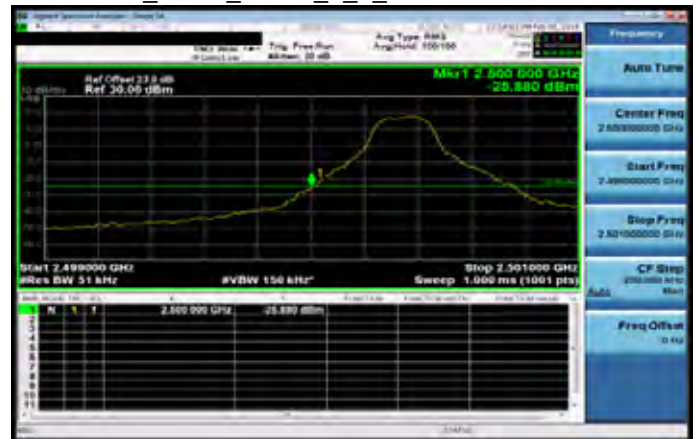
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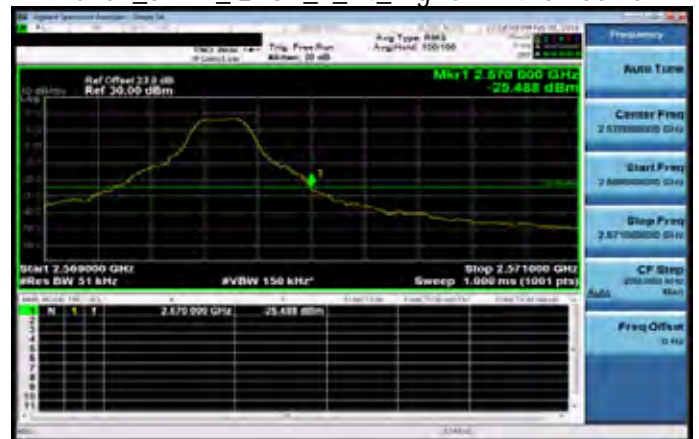
Band7_5MHz_QPSK_1_0_LowCH20775-2502.5



Band5_10MHz_QPSK_50_0_LowCH20450-829



Band7_5MHz_QPSK_1_24_HighCH21425-2567.5



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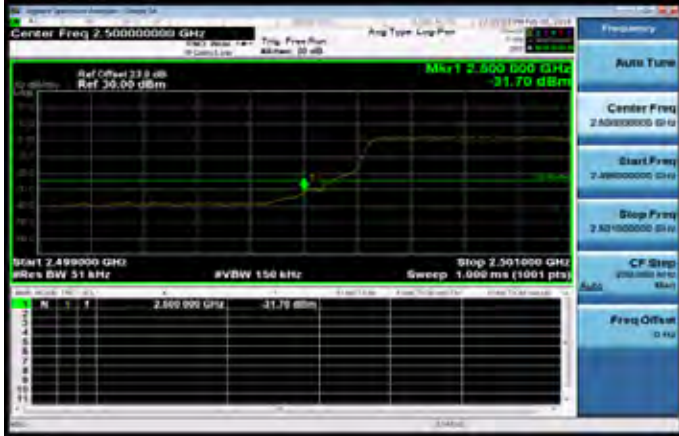
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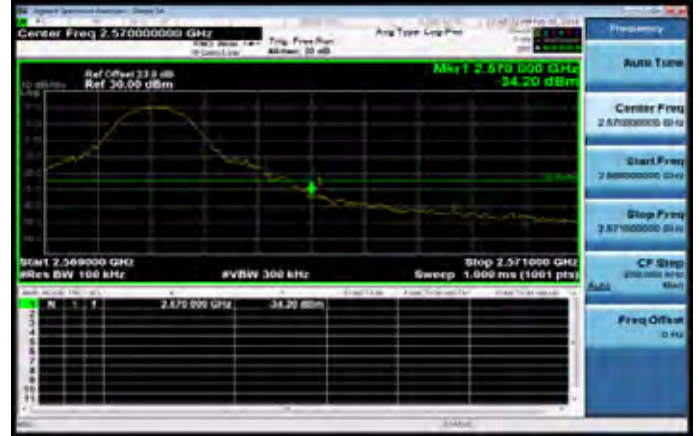
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Band7_10MHz_QPSK_1_49_HighCH21400-2565



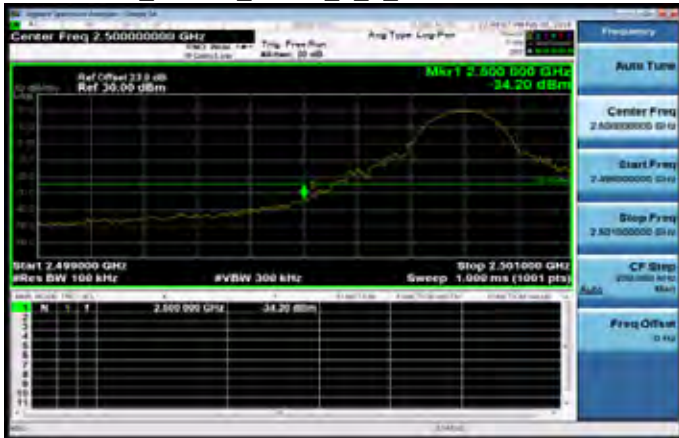
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Band7_10MHz_QPSK_50_0_LowCH20800-2505



Band7_10MHz_QPSK_1_0_LowCH20800-2505



Band7_10MHz_QPSK_50_0_HighCH21400-2565



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Band7_15MHz_QPSK_1_0_LowCH20825-2507.5



Band7_15MHz_QPSK_75_0_HighCH21375-2562.5



Band7_15MHz_QPSK_1_74_HighCH21375-2562.5



Band7_20MHz_QPSK_1_0_LowCH20850-2510



Band7_15MHz_QPSK_75_0_LowCH20825-2507.5



Band7_20MHz_QPSK_1_99_HighCH21350-2560



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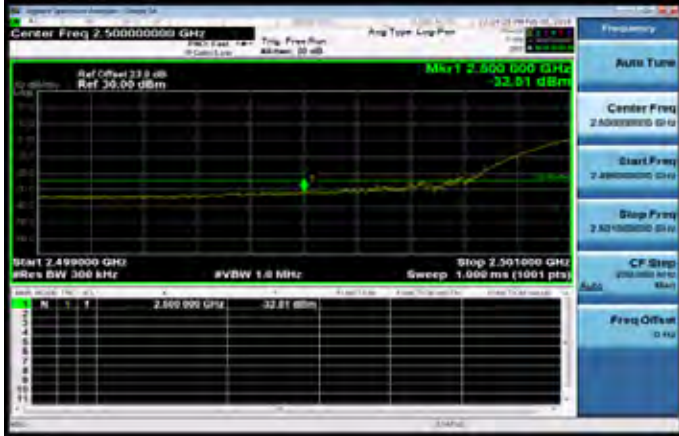
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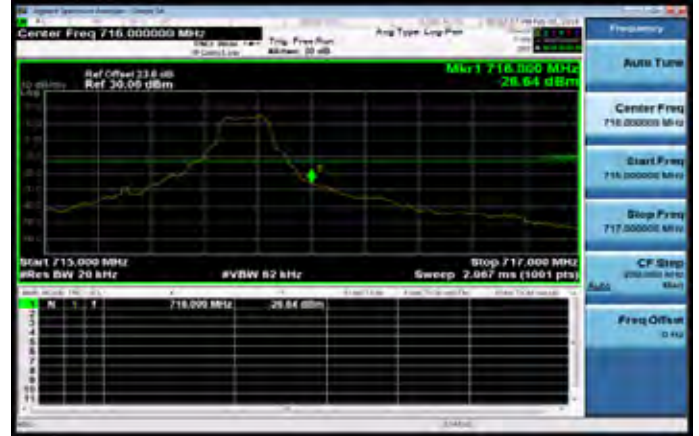
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Band12_1_4MHz_QPSK_1_5_HighCH23173-715.3



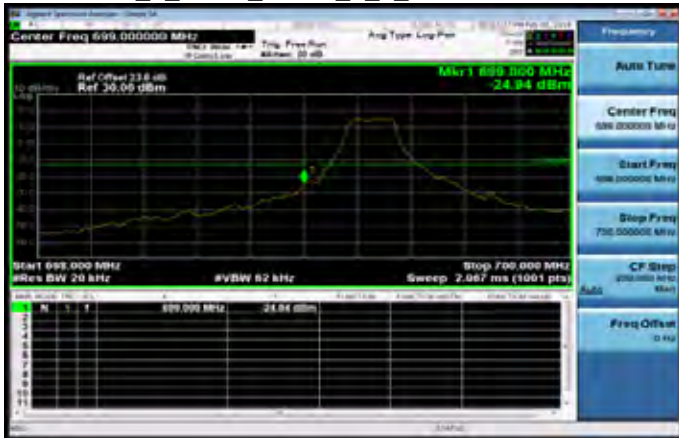
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Band12_1_4MHz_QPSK_6_0_LowCH23017-699.7



Band12_1_4MHz_QPSK_1_0_LowCH23017-699.7



Band12_1_4MHz_QPSK_6_0_HighCH23173-715.3



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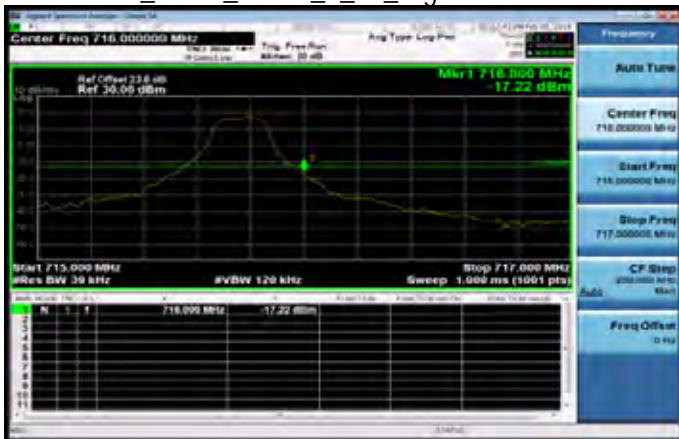
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Band12_3MHz_QPSK_1_14_HighCH23165-714.5



Band12_5MHz_QPSK_1_0_LowCH23035-701.5



Band12_3MHz_QPSK_15_0_LowCH23025-700.5



Band12_5MHz_QPSK_1_24_HighCH23155-713.5



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Band12_10MHz_QPSK_1_49_HighCH23130-711



Band12_5MHz_QPSK_25_0_HighCH23155-713.5



Band12_10MHz_QPSK_50_0_LowCH23060-704



Band12_10MHz_QPSK_1_0_LowCH23060-704



Band12_10MHz_QPSK_50_0_HighCH23130-711



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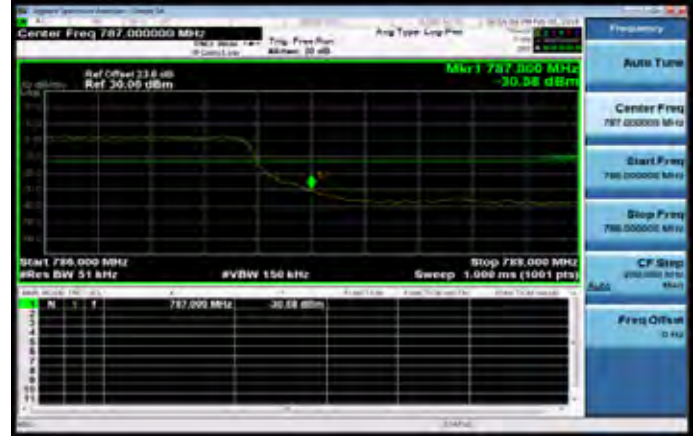
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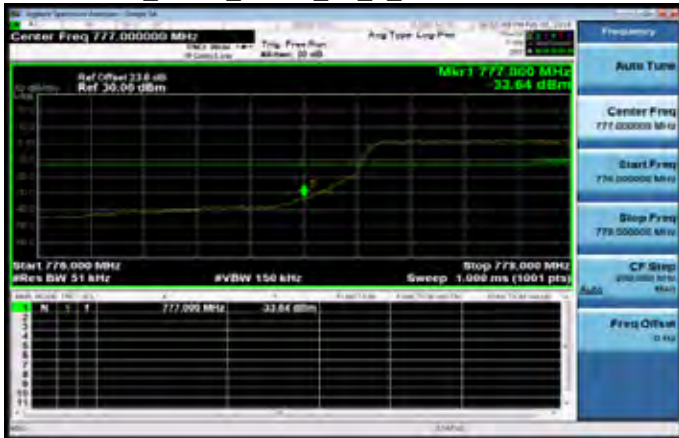
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Band13_10MHz_QPSK_1_0_LowCH23230-782



Band13_5MHz_QPSK_25_0_LowCH23205-779.5



Band13_10MHz_QPSK_1_49_HighCH23230-782



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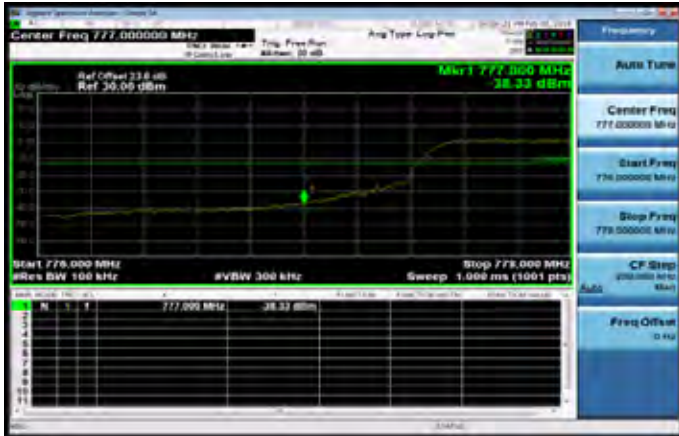
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Band13_10MHz_QPSK_50_0_LowCH23230-782



Band25_1_4MHz_QPSK_1_5_HighCH26683-1914.3



Band13_10MHz_QPSK_50_0_HighCH23230-782



Band25_1_4MHz_QPSK_6_0_LowCH26047-1850.7



Band25_1_4MHz_QPSK_1_0_LowCH26047-1850.7



Band25_1_4MHz_QPSK_6_0_HighCH26683-1914.3



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Band25_3MHz_QPSK_1_0_LowCH26055-1851.5



Band25_3MHz_QPSK_15_0_HighCH26675-1913.5



Band25_3MHz_QPSK_1_14_HighCH26675-1913.5



Band25_5MHz_QPSK_1_0_LowCH26065-1852.5



Band25_3MHz_QPSK_15_0_LowCH26055-1851.5



Band25_5MHz_QPSK_1_24_HighCH26665-1912.5



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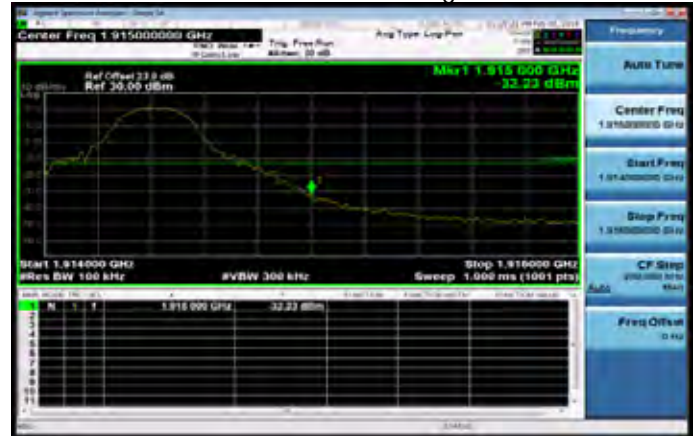
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Band25_5MHz_QPSK_25_0_LowCH26065-1852.5



Band25_10MHz_QPSK_1_49_HighCH26640-1910



Band25_5MHz_QPSK_25_0_HighCH26665-1912.5



Band25_10MHz_QPSK_50_0_LowCH26090-1855



Band25_10MHz_QPSK_1_0_LowCH26090-1855



Band25_10MHz_QPSK_50_0_HighCH26640-1910



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