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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, PART 90S REQUIREMENT**

OF

HP Inc. **Applicant:**

3390 East Harmony Road, Fort Collins Colorado, USA 80528

Product Name: Notebook PC

HP **Brand Name:**

Model No.: HSN-Q09C

Model Difference: N/A

FCC ID: B94HNQ09CWPZV

Report Number: E2/2018/10056

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

Issue Date: Feb. 27, 2018

Date of Test: Jan. 15, 2018 ~ Feb. 14, 2018

Date of EUT Received: Jan. 15, 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.

Prepared By:

Tiffany Kao / Clerk

Approved By:

Jim Chang / Manager





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Revision History

Report Number	Revision	Description	Issue Date
E2/2018/10056	Rev.00	Initial creation of document	Feb. 27, 2018



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1. GENERAL PRODUCT INFORMATION

1.1. Product Description

General:

Product Name:	Notebook	Notebook PC			
Brand Name:	HP				
Model No.:	HSN-Q09	OC .			
Model Difference:	N/A				
Product SW/HW version:	N/A / N/A				
	7.7Vdc from Rechargeable Li-polymer Battery Pack or 5V / 9V / 10V / 12V /15V /20V by AC/DC Power Adapter				
	Battery:	Model No.: HSTNN-IB8D, Supplier: SIMPLO			
Power Supply:	Adapter:	1.Model No.: TPN-CA06, Supplier: Chicony 2.Model No.: TPN-AA03, Supplier: AcBel 3.Model No.: TPN-CA10, Supplier: Chicony 4.Model No.: TPN-LA12, Supplier: LITE-ON 5.Model No.: TPN-TA02, Supplier: ASTEC			
IMEI:	359195080006260				

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Antenna Designation

Vendor	Туре	Main / Aux	Antenna Part No.	Modulation		Peak Antenna Gain (dBi)		
				WCDMA / HSPA Band II	1852.4 ~ 190	'.6 -1.77		
				WCDMA / HSPA Band IV	1712.4 ~ 175	.6 -0.82		
				WCDMA / HSPA Band V	826.4 ~ 846	6 -6.16		
				LTE Band 2	1850 ~ 19 ⁻	0 -1.77		
				LTE Band 4	1710 ~ 175	5 -0.28		
				LTE Band 5	824 ~ 84	-6.01		
				LTE Band 7	2502.5 ~ 256	7.5 2.35		
		Counte I Main I		LTE Band 12	699 ~ 71	-2.96		
INPAQ	0		DQ680200100	LTE Band 13	777 ~ 78	-4.63		
Corporation	Couple		(MDA-LTE8-02-001)	LTE Band 17	704 ~ 71	-2.96		
			,	LTE Band 25	1850 ~ 19 ⁻	5 -1.77		
						LTE Band 26	824 ~ 84	-6.01
				LTE Band 26 (Part 90S)	814 ~ 82	-6.45		
				LTE Band 30	2305 ~ 23	5 1.19		
				LTE Band 38	2572 ~ 261	7.5 1.08		
				LTE Band 41	2496 ~ 269	0 2.65		
				LTE Band 66	1710 ~ 178	0 -0.28		



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1.2. WCDMA / LTE: Cellular Phone Standards Frequency Range

Operating Frequency (MHz	<u>'</u>)	•	
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)	•	n Fi MHz	requency	
	1.4	1850.7	-	1909.3		5	706.5	-	713.5
	3	1851.5	-	1908.5	17	10	709.0	-	711.0
0	5	1852.5	-	1907.5		1.4	1850.7	-	1914.3
2	10	1855.0	-	1905.0	1	3	1851.5	-	1913.5
	15	1857.5	-	1902.5	05	5	1852.5	-	1912.5
	20	1860.0	-	1900.0	25	10	1855.0	-	1910.0
	1.4	1710.7	-	1754.3		15	1857.5	-	1907.5
	3	1711.5	-	1753.5		20	1860.0		1905.0
4	5 1712.5 - 1752.5	1.4	824.7	-	848.3				
4	10	1715.0	-	1780.0	<u>'.5</u> 26	3	825.5	-	847.5
	15	1717.5	-	1747.5		5	826.5	-	846.5
	20	1720.0	-	1745.0		10	829.0	-	844.0
	1.4	824.7	-	848.3		15	831.5	-	841.5
5	3	825.5	-	847.5		1.4	814.7	-	823.3
3	5	826.5	-	846.5	26 Part90	3	815.5	-	822.5
	10	829.0	-	844.0	20 Fait90	5	816.5	-	821.5
	5	2502.5	-	2567.5		10	8	319.	0
7	10	2505.0	-	2565.0	30	5	2307.5	-	2312.5
,	15	2507.5	-	2562.5	30	10	2	310	.0
	20	2510.0	-	2560.0		5	2572	•	2617.5
	1.4	699.7	-	715.3	38	10	2575.0	-	2615.0
12	3	700.5	-	714.5	30	15	2577.5	-	2612.5
12	5	701.5	-	713.5		20	2580.0	-	2610.0
	10	704.0	-	711.0					
13	5	779.5	-	784.5					
13	10		782						

LTE Band	BW (MHz)	Operation Frequency (MHz)		LTE Band	BW (MHz)		Operation Frequency (MHz)		
	5 2498.5 - 2687.5	1.4	1710.7	-	1779.3				
41	10	2501.0	-	2685.0		3	1711.5	-	1778.5
41	15	2503.5	-	2682.5	66	5	1712.5	-	1777.5
	20	2506.0	-	2680.0	00	10	1715.0	-	1775.0
						15	1717.5	-	1772.5
						20	1720.0	-	1770.0

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

	ERP / EIRP (dBm)		(W)	Type of Emission
WCDMA Band II	24.24	EIRP	0.265	4M16F9W
HSDPA Band II	24.18	EIRP	0.262	4M15F9W
HSUPA Band II	24.02	EIRP	0.252	4M15F9W
WCDMA Band IV	24.64	EIRP	0.291	4M13F9W
HSDPA Band IV	24.59	EIRP	0.288	4M13F9W
HSUPA Band IV	24.57	EIRP	0.286	4M15F9W
WCDMA Band V	20.40	ERP	0.110	4M13F9W
HSDPA Band V	20.38	ERP	0.109	4M13F9W
HSUPA Band V	19.84	ERP	0.096	4M13F9W

LTE	BW		ERP /	CIDD		Type of
Band	(MHz)	Modulation	chr/ (dB		(W)	Type of Emission
	1.4	QPSK	26.82	EIRP	0.481	1M09G7D
	1.4	16QAM	27.84	EIRP	0.608	1M10D7W
	3	QPSK	26.58	EIRP	0.455	2M70G7D
	3	16QAM	27.55	EIRP	0.569	2M70D7W
	5	QPSK	27.46	EIRP	0.557	4M50G7D
2	5	16QAM	27.90	EIRP	0.617	4M50D7W
2	10	QPSK	27.72	EIRP	0.592	9M00G7D
	10	16QAM	28.48	EIRP	0.705	8M96D7W
	15	QPSK	27.70	EIRP	0.589	13M5G7D
	15	16QAM	28.62	EIRP	0.728	13M5D7W
	20	QPSK	27.50	EIRP	0.562	18M0G7D
	20	16QAM	28.01	EIRP	0.632	18M0D7W

LTE Band	BW (MHz)	Modulation		ERP / EIRP (dBm)		Type of Emission
	1.4	QPSK	26.29	EIRP	0.426	1M09G7D
	1.4	16QAM	26.28	EIRP	0.425	1M10D7W
	3	QPSK	26.55	EIRP	0.452	2M70G7D
	3	16QAM	26.74	EIRP	0.472	2M70D7W
	5	QPSK	26.74	EIRP	0.472	4M51G7D
4	5	16QAM	27.14	EIRP	0.518	4M50D7W
4	10	QPSK	26.03	EIRP	0.401	9M00G7D
	10	16QAM	26.68	EIRP	0.466	8M96D7W
	15	QPSK	26.14	EIRP	0.411	13M5G7D
	15	16QAM	26.18	EIRP	0.415	13M5D7W
	20	QPSK	25.75	EIRP	0.376	18M1G7D
	20	16QAM	25.88	EIRP	0.387	18M2D7W

LTE Band	BW (MHz)	Modulation	ERP / EIRP (dBm)		(W)	Type of Emission
	1.4	QPSK	23.53	ERP	0.225	1M10G7D
	1.4	16QAM	22.88	ERP	0.194	1M10D7W
	3	QPSK	22.90	ERP	0.195	2M70G7D
5	3	16QAM	22.62	ERP	0.183	2M70D7W
5	5	QPSK	22.95	ERP	0.197	4M50G7D
	5	16QAM	22.72	ERP	0.187	4M50D7W
	10	QPSK	23.19	ERP	0.208	9M01G7D
	10	16QAM	22.49	ERP	0.177	8M97D7W

LTE Band	BW (MHz)	Modulation	ERP / EIRP (dBm)		(W)	Type of Emission
	5	QPSK	19.14	EIRP	0.082	4M50G7D
	5	16QAM	20.44	EIRP	0.111	4M50D7W
	10	QPSK	18.68	EIRP	0.074	9M00G7D
7	10	16QAM	20.12	EIRP	0.103	8M97D7W
/	15	QPSK	19.28	EIRP	0.085	13M5G7D
	15	16QAM	20.11	EIRP	0.103	13M5D7W
	20	QPSK	18.64	EIRP	0.073	18M0G7D
	20	16QAM	20.22	EIRP	0.105	18M0D7W

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LTE Band	BW (MHz)	Modulation		ERP / EIRP (dBm)		Type of Emission
	1.4	QPSK	25.06	ERP	0.321	1M09G7D
	1.4	16QAM	25.00	ERP	0.316	1M10D7W
	3	QPSK	24.32	ERP	0.270	2M70G7D
10	3	16QAM	24.64	ERP	0.291	2M70D7W
12	5	QPSK	24.40	ERP	0.275	4M50G7D
	5	16QAM	24.76	ERP	0.299	4M50D7W
	10	QPSK	24.39	ERP	0.275	9M03G7D
	10	16QAM	24.70	ERP	0.295	8M98D7W
	1.4	QPSK	25.92	EIRP	0.391	1M09G7D
	1.4	16QAM	25.90	EIRP	0.389	1M10D7W
	3	QPSK	25.96	EIRP	0.394	2M70G7D
	3	16QAM	26.28	EIRP	0.425	2M70D7W
	5	QPSK	25.57	ERP	0.361	4M50G7D
25	5	16QAM	26.04	ERP	0.402	4M50D7W
25	10	QPSK	25.90	ERP	0.389	9M00G7D
	10	16QAM	25.95	ERP	0.394	9M97D7W
	15	QPSK	25.89	ERP	0.388	13M5G7D
	15	16QAM	26.71	ERP	0.469	13M5D7W
	20	QPSK	26.23	ERP	0.420	18M0G7D
	20	16QAM	26.95	ERP	0.495	18M0D7W
	1.4	QPSK	24.84	ERP	0.305	1M09G7D
	1.4	16QAM	24.89	ERP	0.308	1M10D7W
	3	QPSK	24.65	ERP	0.292	2M70G7D
	3	16QAM	24.78	ERP	0.301	2M70D7W
26	5	QPSK	24.65	ERP	0.292	4M50G7D
20	5	16QAM	24.71	ERP	0.296	4M50D7W
	10	QPSK	24.45	ERP	0.279	9M02G7D
	10	16QAM	24.70	ERP	0.295	8M98D7W
	15	QPSK	24.46	ERP	0.279	13M5G7D
	15	16QAM	24.41	ERP	0.276	13M5D7W

LTE	BW	Modula-	ERF	ERP / EIRP		Type of
Band	(MHz)	tion	(0	dBm)	(W)	Emission
	5	QPSK	25.27	ERP	0.337	4M51G7D
13	5	16QAM	25.44	ERP	0.350	4M50D7W
13	10	QPSK	25.12	ERP	0.325	8M96G7D
	10	16QAM	18.14	ERP	0.065	8M94D7W
	5	QPSK	24.40	ERP	0.275	4M50G7D
17	5	16QAM	24.61	ERP	0.289	4M50D7W
17	10	QPSK	23.89	ERP	0.245	9M02G7D
	10	16QAM	23.96	ERP	0.249	9M01D7W
	1.4	QPSK	25.41	ERP	0.348	1M09G7D
	1.4	16QAM	25.55	ERP	0.359	1M09D7W
	3	QPSK	25.28	ERP	0.337	2M70G7D
26	3	16QAM	25.39	ERP	0.346	2M70D7W
Part90	5	QPSK	25.32	ERP	0.340	4M50G7D
	5	16QAM	25.50	ERP	0.355	4M50D7W
	10	QPSK	24.59	ERP	0.288	9M01G7D
	10	16QAM	24.60	ERP	0.288	9M83D7W

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LTE Band	BW (MHz)	Modulation	ERP / EIRP (dBm)		(W)	Type of Emission
	5	QPSK	23.35	EIRP	0.216	4M50G7D
30	5	16QAM	23.35	EIRP	0.216	4M50D7W
	10	QPSK	22.76	EIRP	0.189	8M98G7D
	10	16QAM	22.91	EIRP	0.195	8M96D7W

LTE Band	BW (MHz)	Modulation	ERP / EIRP (dBm)		(W)	Type of Emission
	5	QPSK	18.79	EIRP	0.076	4M51G7D
	5	16QAM	18.22	EIRP	0.066	4M50D7W
	10	QPSK	19.04	EIRP	0.080	8M99G7D
38	10	16QAM	18.50	EIRP	0.071	8M97D7W
30	15	QPSK	18.26	EIRP	0.067	13M5G7D
	15	16QAM	17.86	EIRP	0.061	13M5D7W
	20	QPSK	18.66	EIRP	0.073	18M0G7D
	20	16QAM	18.20	EIRP	0.066	18M0D7W

LTE Band	BW (MHz)	Modulation		/ EIRP 3m)	(W)	Type of Emission
	5	QPSK	18.44	EIRP	0.070	4M93G7D
	5	16QAM	18.58	EIRP	0.072	5M28D7W
	10	QPSK	21.75	EIRP	0.150	8M97G7D
41	10	16QAM	18.41	EIRP	0.069	8M96D7W
41	15	QPSK	17.90	EIRP	0.062	13M5G7D
	15	16QAM	18.24	EIRP	0.067	13M5D7W
	20	QPSK	18.31	EIRP	0.068	18M0G7D
	20	16QAM	18.25	EIRP	0.067	18M0D7W

LTE Band	BW (MHz)	Modulation	ERP / EIRP (dBm)		(W)	Type of Emission
	1.4	QPSK	26.42	EIRP	0.439	1M09G7D
	1.4	16QAM	26.43	EIRP	0.440	1M10D7W
	3	QPSK	25.99	EIRP	0.397	2M70G7D
	3	16QAM	26.07	EIRP	0.405	2M71D7W
	5	QPSK	25.88	EIRP	0.387	4M50G7D
66	5	16QAM	25.94	EIRP	0.393	4M50D7W
00	10	QPSK	25.95	EIRP	0.394	9M01G7D
	10	16QAM	26.10	EIRP	0.407	8M97D7W
	15	QPSK	25.51	EIRP	0.356	13M5G7D
	15	16QAM	25.68	EIRP	0.370	13M5D7W
	20	QPSK	25.68	EIRP	0.370	18M0G7D
	20	16QAM	25.78	EIRP	0.378	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)	13.6	10	23.6
High Band (Above 1 GHz)	13.9	10	23.9

2.5. Final Amplifier Voltage and Current Information:

Test Mode	DC voltage (V)	DC current (mA)
WCDMA B2		0.746
WCDMA B4		0.735
WCDMA B5		0.706
LTE Band 2		0.755
LTE Band 4		0.886
LTE Band 5		0.734
LTE Band 7		0.862
LTE Band 12		0.704
LTE Band 13	7.7	0.749
LTE Band 17		0.700
LTE Band 25		0.902
LTE Band 26		0.715
LTE Band 26 (Part 90S)		0.723
LTE Band 30		0.852
LTE Band 38		0.867
LTE Band 41		0.872
LTE Band 66		0.896

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2.6. Configuration of Tested System

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

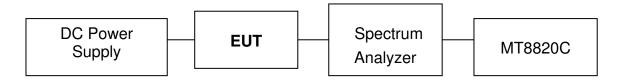


Fig. 2-2 Configuration of Tested System (Fixed Channel-Radiated)

EUT

Remote Side

MT8820C

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(a) (3) \$27.50(b)(10) \$27.50(c)(10) \$27.50(d)(4) \$27.50(h)(2) \$90.635	ERP/ EIRP measurement	Compliant
§2.1049(h)	99% & 26dB Occuupied Bandwidth	Compliant
\$2.1051 \$22.917(a) \$24.238(a) \$27.53(g) \$27.53(c)(2) \$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	E2-plan	E2-plan
LTE Band 7	H-plan	H-plan
LTE Band 12	E2-plan	E2-plan
LTE Band 13	E2-plan	E2-plan
LTE Band 17	E2-plan	E2-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 Bnad 38	H-plan	H-plan
LTE Band 41	H-plan	H-plan
LTE Band 66	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
CONDCUDETED 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
	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
FIDD	18625 to 19175	18625, 18900, 19175	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offest
EIRP	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
	18607 to 19193	18607, 18900, 19193	1.4MHz	QPSK, 16QAM	Full RB
	18615 to 19185	18615, 18900, 19185	3MHz	QPSK, 16QAM	Full RB
OCCUPIED BAND-	18625 to 19175	18625, 18900, 19175	5MHz	QPSK, 16QAM	Full RB
WIDTH	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
	18607 to 19193	18607, 18900, 19193	1.4MHz	16QAM	Full RB
	18615 to 19185	18615, 18900, 19185	3MHz	16QAM	Full RB
PEAK TO AVERAGE RATIO	18625 to 19175	18625, 18900, 19175	5MHz	16QAM	Full RB
RATIO	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
	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
BAND EDGE	18625 to 19175	18625, 19175	5MHz	QPSK	1 RB/ 0,24 RB Offest Full RB
5, 11.15 2.5 3.2	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
	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
CONDCUDETED	18625 to 19175	18625, 18900, 19175	5MHz	QPSK	1 RB, 0 RB Offest
EMISSION	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	18675 to 19125	18675, 18900, 19125	15MHz	16QAM	1 RB, 74 RB Offest

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LTE Band 4 MODE

	AVAILABLE	TESTED	CHANNEL		
TEST ITEM	CHANNEL	CHANNEL	BANDWIDTH	MODULATION	MODE
	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
EIRP FREQUENCY STABILITY OCCUPIED BAND- WIDTH PEAK TO AVERAGE RATIO BAND EDGE CONDCUDETED EMISSION RADIATED EMISSION	19975 to 20375	19975, 20175, 20375	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offest
LINF	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
	20000 to 20350	20175	10MHz	QPSK	Full RB
	19957 to 19393	19957, 20175, 19393	1.4MHz	QPSK, 16QAM	Full RB
	19965 to 22385	19965, 20175, 22385	3MHz	QPSK, 16QAM	Full RB
OCCUPIED BAND-	19975 to 20375	19975, 20175, 20375	5MHz	QPSK, 16QAM	Full RB
WIDTH	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
	19957 to 19393	19957, 20175, 19393	1.4MHz	16QAM	Full RB
	19965 to 22385	19965, 20175, 22385	3MHz	16QAM	Full RB
PEAK TO AVERAGE	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
	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
BAND EDGE	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
	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
EMISSION	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
	19975 to 20375	19975, 20175, 20375	5MHz	16QAM	1 RB, 24 RB Offest

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LTE Band 5 MODE

LIE Band 3 WODE						
TEST ITEM	AVAILABLE Channel	TESTED Channel	CHANNEL BANDWIDTH	MODULATION	MODE	
	20470 to 20643	20470, 20525, 20643	1.4MHz	QPSK, 16QAM	1 RB/ 0,5 RB Offest	
ERP	20415 to 20635	20415, 20525, 20635	3MHz	QPSK, 16QAM	1 RB/ 0,14 RB Offest	
ERP	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	
	20470 to 20643	20470, 20525, 20643	1.4MHz	QPSK, 16QAM	Full RB	
OCCUPIED BAND-	20415 to 20635	20415, 20525, 20635	3MHz	QPSK, 16QAM	Full RB	
WIDTH	20425 to 20625	20425, 20525, 20625	5MHz	QPSK, 16QAM	Full RB	
	20450 to 20600	20450, 20525, 20600	10MHz	QPSK, 16QAM	Full RB	
	20470 to 20643	20470, 20525, 20643	1.4MHz	16QAM	Full RB	
PEAK TO AVERAGE	20415 to 20635	20415, 20525, 20635	3MHz	16QAM	Full RB	
RATIO	20425 to 20625	20425, 20525, 20625	5MHz	16QAM	Full RB	
	20450 to 20600	20450, 20525, 20600	10MHz	16QAM	Full RB	
	20470 to 20643	20470, 20643	1.4MHz	QPSK	1 RB/ 0,5 RB Offes Full RB	
DANID EDGE	20415 to 20635	20415, 20635	3MHz	QPSK	1 RB/ 0,14 RB Offest Full RB	
BAND EDGE	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	
	20470 to 20643	20470, 20525, 20643	1.4MHz	QPSK	1 RB, 0 RB Offest	
CONDCUDETED	20415 to 20635	20415, 20525, 20635	3MHz	QPSK	1 RB, 0 RB Offest	
EMISSION	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	20470 to 20643	20470, 20525, 20643	1.4MHz	16QAM	1 RB, 0 RB Offest	



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LTE Band 7 MODE

TEST ITEM	AVAILABLE	TESTED	CHANNEL	MODULATION	MODE
1201112	CHANNEL	CHANNEL	BANDWIDTH	IIIODOZ/(IIO)(111052
	20775 to 21425	20775, 21100, 21425	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offest
EIRP	20800 to 21400	20800, 21100, 21400	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offest
EINF	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
	20775 to 21425	20775, 21100, 21425	5MHz	QPSK, 16QAM	Full RB
OCCUPIED BAND-	20800 to 21400	20800, 21100, 21400	10MHz	QPSK, 16QAM	Full RB
WIDTH	20850 to 21375	20850, 21100, 21375	15MHz	QPSK, 16QAM	Full RB
	20850 to 21350	20850, 21100, 21350	20MHz	QPSK, 16QAM	Full RB
	20775 to 21425	20775, 21100, 21425	5MHz	16QAM	Full RB
PEAK TO AVERAGE	20800 to 21400	20800, 21100, 21400	10MHz		Full RB
RATIO	20850 to 21375	20850, 21100, 21375	15MHz		Full RB
	20850 to 21350	20850, 21100, 21350	20MHz	16QAM	Full RB
	20775 to 21425	20775, 21100, 21425	5MHz	QPSK	1 RB/ 0,24 RB Offest Full RB
DAND FDOE	20800 to 21400	20800, 21100, 21400	10MHz	QPSK	1 RB/ 0,49 RB Offest Full RB
BAND EDGE	20850 to 21375	20850, 21100, 21375	15MHz	QPSK	1 RB/ 0,74 RB Offest Full RB
	20850 to 21350	20850, 21100, 21350	20MHz	QPSK, 16QAM QPSK, 16QAM QPSK, 16QAM QPSK QPSK, 16QAM QPSK, 16QAM QPSK, 16QAM QPSK, 16QAM 16QAM 16QAM 16QAM 16QAM QPSK	1 RB/ 0,99 RB Offest Full RB
	20775 to 21425	20775, 21100, 21425	5MHz	QPSK	1 RB, 0 RB Offest
CONDCUDETED	20800 to 21400	20800, 21100, 21400	10MHz	QPSK	1 RB, 0 RB Offest
EMISSION	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, 0 RB Offest
	20775 to 21425	20775, 21100, 21425	5MHz	QPSK	1 RB/ 0,24 RB Offest 25 RB/ 0 Offset
=1.00000111101/	20800 to 21400	20800, 21100, 21400	10MHz	QPSK	1 RB/ 0,49 RB Offest 50 RB/ 0 Offset
EMISSION MASK	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
	23017 to 23173	23017, 23095, 23173	1.4MHz	QPSK, 16QAM	1 RB/ 0,5 RB Offest
ERP	23025 to 23165	23025, 23095, 23165	3MHz	QPSK, 16QAM	1 RB/ 0,14 RB Offest
ERP	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
	23017 to 23173	23017, 23095, 23173	1.4MHz	QPSK, 16QAM	Full RB
OCCUPIED	23025 to 23165	23025, 23095, 23165	3MHz	QPSK, 16QAM	Full RB
BANDWIDTH	23035 to 23155	23035, 23095, 23155	5MHz	QPSK, 16QAM	Full RB
	23060 to 23130	23060, 23095, 23130	10MHz	QPSK, 16QAM	Full RB
	23017 to 23173	23017, 23095, 23173	1.4MHz	16QAM	Full RB
PEAK TO AVER-	23025 to 23165	23025, 23095, 23165	3MHz	16QAM	Full RB
AGE RATIO	23035 to 23155	23035, 23095, 23155	5MHz	16QAM	Full RB
	23060 to 23130	23060, 23095, 23130	10MHz	16QAM	Full RB
	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
BAND EDGE	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
	23017 to 23173	23017, 23095, 23173	1.4MHz	QPSK	1 RB, 0 RB Offest
CONDCUDETED	23025 to 23165	23025, 23095, 23165	3MHz	QPSK	1 RB, 0 RB Offest
EMISSION	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	23035 to 23155	23035, 23095, 23155	5MHz	16QAM	1 RB, 24 RB Offest



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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	
ENF	23230	23230	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offest	
FREQUENCY STABILITY	23230	23230	10MHz	QPSK	Full RB	
OCCUPIED BAND-	23205 to 23255	23205, 23230, 23255	5MHz	QPSK, 16QAM	Full RB	
WIDTH	23230	23230	10MHz	QPSK, 16QAM	Full RB	
PEAK TO AVERAGE	23205 to 23255	23205, 23230, 23255	5MHz	16QAM	Full RB	
RATIO	23230	23230	10MHz	16QAM	Full RB	
DAND FDCF	23205 to 23255	23205, 23255	5MHz	QPSK	1 RB/ 0,24 RB Offest Full RB	
BAND EDGE	23230	23230	10MHz	QPSK	1 RB/ 0,49 RB Offest Full RB	
CONDCUDETED	23205 to 23255	23205, 23230, 23255	5MHz	QPSK	1 RB, 0 RB Offest	
EMISSION	23230	23230	10MHz	QPSK	1 RB, 0 RB Offest	
RADIATED EMISSION	23205 to 23255	23205, 23230, 23255	5MHz	16QAM	1 RB/ 24 RB Offest	

LTF Band 17 MODE

LIE Band 17 MODE						
TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE	
ERP	23755 to 23825	23755, 23790, 23825	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offest	
ENF	23780 to 23800	23780, 23790, 23800	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offest	
FREQUENCY STABILITY	23780 to 23800	23790	10MHz	QPSK	Full RB	
OCCUPIED BAND-	23755 to 23825	23755, 23790, 23825	5MHz	QPSK, 16QAM	Full RB	
WIDTH	23780 to 23800	23780, 23790, 23800	10MHz	QPSK, 16QAM	Full RB	
PEAK TO AVERAGE	23755 to 23825	23755, 23790, 23825	5MHz	16QAM	Full RB	
RATIO	23780 to 23800	23780, 23790, 23800	10MHz	16QAM	Full RB	
BAND EDGE	23755 to 23825	23755, 23825	5MHz	QPSK	1 RB/ 0,24 RB Offest Full RB	
DANU EUGE	23780 to 23800	23780, 23800	10MHz	QPSK	1 RB/ 0,49 RB Offest Full RB	
CONDCUDETED	23755 to 23825	23755, 23790, 23825	5MHz	QPSK	1 RB, 0 RB Offest	
EMISSION	23780 to 23800	23780, 23790, 23800	10MHz	QPSK	1 RB, 0 RB Offest	
RADIATED EMISSION	23755 to 23825	23755, 23790, 23825	5MHz	16QAM	1 RB/ 0 RB Offest	

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LTF Band 25 MODE

LTE Band 25 MODE							
TEST ITEM	AVAILABLE CHAN- NEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE		
	27047 to 26683	27047, 26365, 26683	1.4MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,5 RB Offset		
	26055 to 26675	26055, 26365, 26675	3MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,14 RB Offset		
EIRP	26065 to 26665	26065, 26365, 26665	5MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,24 RB Offset		
CINF	26096 to 26640	26096, 26365, 26640	10MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,49 RB Offset		
	26115 to 26615	26115, 26365, 26615	15MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,74 RB Offset		
	26140 to 26590	26140, 26365, 26590	20MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,99 RB Offset		
FREQUENCY STABIL- ITY	26096 to 26640	26365	10MHz	QPSK,	Full RB		
	27047 to 26683	27047, 26365, 26683	1.4MHz	QPSK, 16QAM, 64QAM	Full RB		
	26055 to 26675	26055, 26365, 26675	3MHz	QPSK, 16QAM, 64QAM	Full RB		
OCCUPIED BAND-	26065 to 26665	26065, 26365, 26665	5MHz	QPSK, 16QAM, 64QAM	Full RB		
WIDTH	26096 to 26640	26096, 26365, 26640	10MHz	QPSK, 16QAM, 64QAM	Full RB		
	26115 to 26615	26115, 26365, 26615	15MHz	QPSK, 16QAM, 64QAM	Full RB		
	26140 to 26590	26140, 26365, 26590	20MHz	QPSK, 16QAM, 64QAM	Full RB		
	27047 to 26683	27047, 26365, 26683	1.4MHz	64QAM	Full RB		
	26055 to 26675	26055, 26365, 26675	3MHz	64QAM	Full RB		
PEAK TO AVERAGE	26065 to 26665	26065, 26365, 26665	5MHz	64QAM	Full RB		
RATIO	26096 to 26640	26096, 26365, 26640	10MHz	64QAM	Full RB		
	26115 to 26615	26115, 26365, 26615	15MHz	64QAM	Full RB		
	26140 to 26590	26140, 26365, 26590	20MHz	64QAM	Full RB		
	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		
BAND EDGE	26065 to 26665	26065, 26665	5MHz	QPSK,	1 RB/ 0,24 RB Offset Full RB		
DAND EDGE	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		
	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		
CONDCUDETED EMIS-	26065 to 26665	26065, 26365, 26665	5MHz	QPSK,	1 RB, 0 RB Offset		
SION	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	26140 to 26590	26140, 26590	20MHz	16QAM,	1 RB/ 0 RB Offest		

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LTE Band 26 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED Channel	CHANNEL BANDWIDTH	MODULATION	MODE
	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
ERP	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
	26797 to 27033	26797, 26915, 27033	1.4MHz	QPSK, 16QAM	Full RB
OCCUPIED BAND-	26805 to 27025	26805, 26915, 27025	3MHz	QPSK, 16QAM	Full RB
WIDTH	26815 to 27015	26815, 26915, 27015	5MHz	QPSK, 16QAM	Full RB
חוטוא	26840 to 26990	26840, 26915, 26990	10MHz	QPSK, 16QAM	Full RB
	26865 to 26965	26865, 26915, 26965	15MHz	QPSK, 16QAM	Full RB
	26797 to 27033	26797, 26915, 27033	1.4MHz	16QAM	Full RB
	26805 to 27025	26805, 26915, 27025	3MHz	16QAM	Full RB
PEAK TO AVERAGE RATIO	26815 to 27015	26815, 26915, 27015	5MHz	16QAM	Full RB
HATIO	26840 to 26990	26840, 26915, 26990	10MHz	16QAM	Full RB
	26865 to 26965	26865, 26915, 26965	15MHz	16QAM	Full RB
	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
BAND EDGE	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
	26797 to 27033	26797, 26915, 27033	1.4MHz	QPSK	1 RB, 0 RB Offest
CONDCHERED	26805 to 27025	26805, 26915, 27025	3MHz	QPSK	1 RB, 0 RB Offest
CONDCUDETED	26815 to 27015	26815, 26915, 27015	5MHz	QPSK	1 RB, 0 RB Offest
EMISSION	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	26697 to 26783	26697, 26740, 26783	1.4MHz	16QAM	1 RB, 0 RB Offest

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LTE Band 26 for 90S MODE

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

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LTE Band 30 MODE

LIE Baild 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	
ENF	27710	27710	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offest	
FREQUENCY STABILITY	27710	27710	10MHz	QPSK	Full RB	
OCCUPIED BAND-	27685 to 27735	27685, 27710, 27735	5MHz	QPSK, 16QAM	Full RB	
WIDTH	27710	27710	10MHz	QPSK, 16QAM	Full RB	
PEAK TO AVERAGE	27685 to 27735	27685, 27710, 27735	5MHz	16QAM	Full RB	
RATIO	27710	27710	10MHz	16QAM	Full RB	
BAND EDGE	27685 to 27735	27685, 27710, 27735	5MHz	QPSK	1 RB/ 0,24 RB Offest Full RB	
DANU EUGE	27710	27710	10MHz	QPSK	1 RB/ 0,49 RB Offest Full RB	
CONDCUDETED	27685 to 27735	27685, 27710, 27735	5MHz	QPSK	1 RB, 0 RB Offest	
EMISSION	27710	27710	10MHz	QPSK	1 RB, 0 RB Offest	
RADIATED EMISSION	27685 to 27735	27685, 27710, 27735	5MHz	16QAM	1 RB/ 24 RB Offest	



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LTE Band 38 MODE

TEST ITEM	AVAILABLE	TESTED	CHANNEL	MODULATION	MODE
TEOT ITEM	CHANNEL	CHANNEL	BANDWIDTH	MODOLATION	MODE
	37775 to 38225	37775, 38000, 38225	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offest
	37800 to 38200	37800 , 38000, 38200	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offest
EIRP	37825 to 38175	37825 , 38000, 38175	15MHz	QPSK, 16QAM	1 RB/ 0,74 RB Offest
	37850 to 38150	37850 , 38000, 38150	20MHz	QPSK, 16QAM	1 RB/ 0,99 RB Offest
FREQUENCY STABILITY	37800 to 38200	37800 , 38000, 38200	10MHz	QPSK	Full RB
	37775 to 38225	37775, 38000, 38225	5MHz	QPSK, 16QAM	Full RB
OCCUPIED BAND-	37800 to 38200	37800 , 38000, 38200	10MHz	QPSK, 16QAM	Full RB
WIDTH	37825 to 38175	37825 , 38000, 38175	15MHz	QPSK, 16QAM	Full RB
	37850 to 38150	37850 , 38000, 38150	20MHz	QPSK, 16QAM	Full RB
	37775 to 38225	37775, 38000, 38225	5MHz	16QAM	Full RB
PEAK TO AVERAGE	37800 to 38200	37800 , 38000, 38200	10MHz	16QAM	Full RB
RATIO	37825 to 38175	37825 , 38000, 38175	15MHz	16QAM	Full RB
	37850 to 38150	37850 , 38000, 38150	20MHz	16QAM	Full RB
	37775 to 38225	37775, 38000, 38225	5MHz	QPSK	1 RB/ 0,24 RB Offest Full RB
DAND FDOE	37800 to 38200	37800 , 38000, 38200	10MHz	QPSK	1 RB/ 0,49 RB Offest Full RB
BAND EDGE	37825 to 38175	37825 , 38000, 38175	15MHz	QPSK	1 RB/ 0,74 RB Offest Full RB
	37850 to 38150	37850 , 38000, 38150	20MHz	QPSK	1 RB/ 0,99 RB Offest Full RB
	37775 to 38225	37775, 38000, 38225	5MHz	QPSK	1 RB, 0 RB Offest
CONDCUDETED	37800 to 38200	37800 , 38000, 38200	10MHz	QPSK	1 RB, 0 RB Offest
EMISSION	37825 to 38175	37825 , 38000, 38175	15MHz	QPSK	1 RB, 0 RB Offest
	37850 to 38150	37850 , 38000, 38150	20MHz	QPSK	1 RB, 0 RB Offest
RADIATED EMISSION	37800 to 38200	37800 , 38000, 38200	10MHz	QPSK	1 RB, 0 RB Offest
	37775 to 38225	37775, 38000, 38225	5MHz	QPSK	1 RB/ 0,24 RB Offest 25 RB/ 0 Offset
	37800 to 38200	37800 , 38000, 38200	10MHz	QPSK	1 RB/ 0,49 RB Offest 50 RB/ 0 Offset
EMISSION MASK	37825 to 38175	37825 , 38000, 38175	15MHz	QPSK	1 RB/ 0,74 RB Offest 75 RB/ 0 Offset
	37850 to 38150	37850 , 38000, 38150	20MHz	QPSK	1 RB/ 0,99 RB Offest 100 RB/ 0 Offset

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LTE Band 41 MODE

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



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LTE Band 66 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED Channel	CHANNEL BANDWIDTH	MODULATION	MODE
	131979 to 132665	131979, 132322, 132665	1.4MHz	QPSK, 16QAM	1 RB/ 0,5 RB Offest
	131987 to 132657	131987, 132322, 132657	3MHz	QPSK, 16QAM	1 RB/ 0,14 RB Offest
EIRP	131997 to 132647	131997, 132322, 132647	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offest
EIRP	132022 to 132622	132022, 132322, 132622	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offest
	132047 to 132597	132047, 132322, 132597	15MHz	QPSK, 16QAM	1 RB/ 0,74 RB Offest
	132072 to 132572	132072, 132322, 132572	20MHz	QPSK, 16QAM	1 RB/ 0,99 RB Offest
FREQUENCY STABILITY	18650 to 19150	18900	10MHz	QPSK	Full RB
	131979 to 132665	131979, 132322, 132665	1.4MHz	QPSK, 16QAM	Full RB
	131987 to 132657	131987, 132322, 132657	3MHz	QPSK, 16QAM	Full RB
OCCUPIED BAND-	131997 to 132647	131997, 132322, 132647	5MHz	QPSK, 16QAM	Full RB
WIDTH	132022 to 132622	132022, 132322, 132622	10MHz	QPSK, 16QAM	Full RB
	132047 to 132597	132047, 132322, 132597	15MHz	QPSK, 16QAM	Full RB
	132072 to 132572	132072, 132322, 132572	20MHz	QPSK, 16QAM	Full RB
	131979 to 132665	131979, 132322, 132665	1.4MHz	16QAM	Full RB
	131987 to 132657	131987, 132322, 132657	3MHz	16QAM	Full RB
PEAK TO AVERAGE	131997 to 132647	131997, 132322, 132647	5MHz	16QAM	Full RB
RATIO	132022 to 132622	132022, 132322, 132622	10MHz	16QAM	Full RB
	132047 to 132597	132047, 132322, 132597	15MHz	16QAM	Full RB
	132072 to 132572	132072, 132322, 132572	20MHz	16QAM	Full RB
	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
BAND EDGE	18625 to 19175	18625, 19175	5MHz	QPSK	1 RB/ 0,24 RB Offest Full RB
DAND EDGE	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
	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
CONDCUDETED	18625 to 19175	18625, 18900, 19175	5MHz	QPSK	1 RB, 0 RB Offest
EMISSION	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	16QAM	1 RB, 0 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			

	9kHz – 30MHz: +/- 2.87 dB
Measurement uncertainty (Polarization : Horizontal)	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.



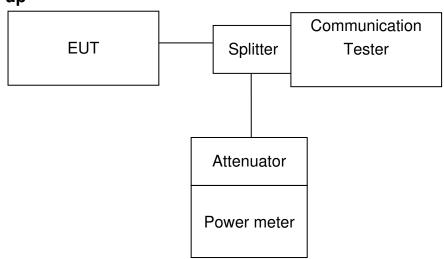
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6. RF CONDUCTED OUTPUT POWER MEASUREMENT

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, (WCD-MA/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	00100A1F1A19 5C	RF01	12/24/2017	12/23/2018				
Temperature Chamber	TERCHY	MHK-120LK	1020582	06/13/2017	06/12/2018				
DC Block	PASTERNACK	PE8210	RF29	12/24/2017	12/23/2018				
Splitter	RF-LAMBAD	RFLT2W1G18G	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					
	9262	9400	9538			
WCDMA	23.54	23.80	23.28			
HSDPA	20.90	21.26	20.95			
HSUPA	21.05	21.55	20.91			

BNAD IV	Avg. Power (dBm) Channel				
	1312	1413	1513		
WCDMA	23.98	23.69	23.75		
HSDPA	20.66	20.53	20.67		
HSUPA	20.71 20.83 20.98				

BNAD V	Avg. Power (dBm) Channel				
	4132	4183	4233		
WCDMA	23.72	23.82	23.28		
HSDPA	22.98	22.73	22.42		
HSUPA	22.67 22.84 22.3				

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LTE Result:

LTE Band 2_Uplink frequency band : 1850 to 1910 MHz										
				Conducted power (dBm)						
BW	RB	RB		QPSK		16QAM				
(MHz)	Size	Offset	CH	CH	CH	CH	CH	CH		
(1411 12)	OIZC	Oliset	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)		
			18607	18900	19193	18607	18900	19193		
	1	0	23.69	23.95	23.21	23.04	23.21	22.83		
1.4	1	5	23.66	23.97	23.06	23.14	23.23	22.45		
1.4	3	2	23.66	23.91	23.09	22.92	23.12	22.45		
	6	0	22.87	22.97	22.36	22.05	22.12	21.62		

LTE Band 2_Uplink frequency band : 1850 to 1910 MHz									
				Conducted power (dBm)					
BW	RB	RB		QPSK			16QAM		
(MHz)	Size	Offset	CH	CH	CH	CH	CH	CH	
(1011 12)	SIZE	Oliset	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	
			18615	18900	19185	18615	18900	19185	
	1	0	23.66	24.07	23.42	23.11	23.34	23.09	
3	1	14	23.63	24.00	23.02	23.16	23.26	22.65	
J	8	4	23.00	23.07	22.62	22.15	22.13	21.79	
	15	0	22.98	23.07	22.66	22.04	22.02	21.79	

LTE Band 2_Uplink frequency band : 1850 to 1910 MHz									
				Conducted power (dBm)					
BW	RB	RB		QPSK			16QAM		
(MHz)	Size	Offset	CH	CH	CH	CH	CH	CH	
(IVII IZ)	(IVIIIZ) SIZE	Oliset	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	
			18625	18900	19175	18625	18900	19175	
	1	0	23.72	24.17	23.67	22.99	23.52	23.03	
5	1	24	23.73	24.10	23.01	23.00	23.27	22.31	
	12	6	22.89	23.18	22.70	21.99	22.24	21.75	
	25	0	22.82	23.14	22.63	21.90	22.15	21.70	

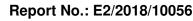


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LTE Band 2_Uplink frequency band : 1850 to 1910 MHz									
		RB RB Size Offset	Conducted power (dBm)						
BW (MHz)			QPSK			16QAM			
			CH	CH	CH	CH	CH	CH	
			(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	
			18650	18900	19150	18650	18900	19150	
	1	0	23.69	24.15	23.83	23.04	23.45	23.11	
10	1	49	23.43	24.09	23.03	22.78	23.37	22.06	
10	25	12	22.86	23.18	22.75	21.87	22.19	21.76	
	50	0	22.79	23.15	22.58	21.87	22.23	21.70	

LTE Band 2_Uplink frequency band : 1850 to 1910 MHz										
BW (MHz)		RB RB Size Offset	Conducted power (dBm)							
	RB Size		QPSK			16QAM				
			CH	CH	CH	CH	CH	CH		
			(Low)	(Mid)	(High)	(Low)	(Mid)	(High)		
			18675	18900	19125	18675	18900	19125		
	1	0	23.77	24.05	23.89	23.12	23.35	23.16		
15	1	74	23.65	24.22	23.07	23.01	23.35	22.33		
	36	19	22.95	23.28	22.81	22.03	22.30	21.94		
	75	0	22.81	23.15	22.68	21.99	22.29	21.81		

LTE Band 2_Uplink frequency band : 1850 to 1910 MHz									
			Conducted power (dBm)						
			(dBm)						
BW	RB	RB		QPSK			16QAM		
(MHz)	Size	Offset	CH	CH	CH	CH	CH	CH	
			(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	
			18700	18900	19100	18700	18900	19100	
	1	0	23.90	23.94	24.20	23.17	23.09	23.11	
20	1	99	23.78	24.11	23.18	23.13	23.38	22.56	
20	50	25	23.12	23.32	22.95	22.15	22.38	21.99	
	100	0	22.44	22.68	22.35	21.89	22.08	21.69	





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L	TE Ba	nd 4_U	olink fre	quency	band : 1	710 to 1	755 MH	Z
	Bm)							
BW	DR	RB RB	QPSK				16QAM	
(MHz)	Size	Offset	CH	CH	CH	CH	CH	CH
(1411 12)	OiZO	Onoot	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
			19957	20175	20393	19957	20175	20393
	1	0	23.45	23.28	23.39	23.00	22.61	22.96
1.4	1	5	23.26	23.27	23.41	22.73	22.75	22.70
	3	2	23.80	23.36	23.50	22.82	22.90	22.96
	6	0	22.34	22.69	22.79	21.51	21.54	21.56
L	TE Ba	nd 4_U	olink fre					Z
					iducted p	ower (d		
BW	RB	RB	_	QPSK		_	16QAM	_
(MHz)	Size	Offset	CH	CH	CH	CH	CH	CH
,			(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
	,		19965	20175	20385	19965	20175	20385
	1	0	23.34	23.36	23.23	23.00	22.79	22.85
3	1	14	23.47	23.28	23.57	22.73	22.49	22.63
	8	4	22.77	22.74	22.76	21.63	21.90	21.84
	15	0	22.25	22.49	22.83	21.51	21.66	21.76
L	TE Ba		olink fre	quency	band : 1	710 to 1	755 MH	
L	TE Ba			quency Cor		710 to 1	755 MH Bm)	
L BW	TE Ba		olink fre	quency Cor QPSK	band : 1 iducted բ	710 to 1 cower (d	755 MH Bm) 16QAM	Z
		nd 4_U	CH	quency Cor QPSK CH	band : 1 nducted ր CH	710 to 1 cower (d	755 MH Bm) 16QAM CH	Z
BW	RB	nd 4_U _I RB	CH (Low)	QPSK CH (Mid)	band : 1 nducted p CH (High)	710 to 1 cower (d CH (Low)	755 MH Bm) 16QAM CH (Mid)	CH (High)
BW	RB Size	RB Offset	CH (Low) 19975	QPSK CH (Mid) 20175	band : 1 ducted p CH (High) 20375	710 to 1 cower (d CH (Low) 19975	755 MH Bm) 16QAM CH (Mid) 20175	CH (High) 20375
BW	RB Size	RB Offset	CH (Low) 19975 23.40	Cor QPSK CH (Mid) 20175 23.29	cH (High) 20375 23.37	710 to 1 cower (d CH (Low) 19975 22.87	755 MH Bm) 16QAM CH (Mid) 20175 22.73	CH (High) 20375 22.97
BW	RB Size	RB Offset	CH (Low) 19975 23.40 23.28	QPSK CH (Mid) 20175 23.29 23.23	CH (High) 20375 23.47	710 to 1 cower (d CH (Low) 19975 22.87 22.89	755 MH Bm) 16QAM CH (Mid) 20175 22.73 22.53	CH (High) 20375 22.97 22.58
BW (MHz)	RB Size	RB Offset 0 24 6	CH (Low) 19975 23.40 23.28 22.72	QPSK CH (Mid) 20175 23.29 23.23 22.65	CH (High) 20375 23.47 22.81	710 to 1 cower (d CH (Low) 19975 22.87 22.89 21.75	755 MH Bm) 16QAM CH (Mid) 20175 22.73 22.53 21.74	CH (High) 20375 22.97 22.58 21.74
BW (MHz)	RB Size 1 1 1 25	RB Offset 0 24 6 0	CH (Low) 19975 23.40 23.28 22.72 22.09	QPSK CH (Mid) 20175 23.29 23.23 22.65 22.59	CH (High) 20375 23.47 22.81 22.79	710 to 1 cower (d CH (Low) 19975 22.87 22.89 21.75 21.39	755 MH Bm) 16QAM CH (Mid) 20175 22.73 22.53 21.74 21.47	CH (High) 20375 22.97 22.58 21.74 21.73
BW (MHz)	RB Size 1 1 1 25	RB Offset 0 24 6 0	CH (Low) 19975 23.40 23.28 22.72	QPSK CH (Mid) 20175 23.29 23.23 22.65 22.59	CH (High) 20375 23.47 22.81 22.79 band : 1	710 to 1 cower (d CH (Low) 19975 22.87 22.89 21.75 21.39	755 MH Bm) 16QAM CH (Mid) 20175 22.73 22.53 21.74 21.47	CH (High) 20375 22.97 22.58 21.74 21.73
BW (MHz)	RB Size 1 1 12 25	RB Offset 0 24 6 0	CH (Low) 19975 23.40 23.28 22.72 22.09	QPSK CH (Mid) 20175 23.29 23.23 22.65 22.59	CH (High) 20375 23.47 22.81 22.79	710 to 1 cower (d CH (Low) 19975 22.87 22.89 21.75 21.39	755 MH Bm) 16QAM CH (Mid) 20175 22.73 22.53 21.74 21.47	CH (High) 20375 22.97 22.58 21.74 21.73
BW (MHz) 5	RB Size 1 1 12 25 TE Ba	RB Offset 0 24 6 0 nd 4_Up	CH (Low) 19975 23.40 23.28 22.72 22.09	QPSK CH (Mid) 20175 23.29 23.23 22.65 22.59 quency Cor	CH (High) 20375 23.47 22.81 22.79 band : 1	710 to 1 cower (d CH (Low) 19975 22.87 22.89 21.75 21.39	755 MH Bm) 16QAM CH (Mid) 20175 22.73 22.53 21.74 21.47 755 MH Bm)	CH (High) 20375 22.97 22.58 21.74 21.73
BW (MHz)	RB Size 1 1 12 25	RB Offset 0 24 6 0	CH (Low) 19975 23.40 23.28 22.72 22.09	quency Cor QPSK CH (Mid) 20175 23.29 23.23 22.65 22.59 quency Cor QPSK	CH (High) 20375 23.47 22.81 22.79 band : 1	710 to 1 cower (d CH (Low) 19975 22.87 22.89 21.75 21.39 710 to 1	755 MH Bm) 16QAM CH (Mid) 20175 22.73 22.53 21.74 21.47 755 MH Bm) 16QAM	CH (High) 20375 22.97 22.58 21.74 21.73
BW (MHz) 5	RB Size 1 1 12 25 TE Ba	RB Offset 0 24 6 0 nd 4_Up	CH (Low) 19975 23.40 23.28 22.72 22.09 Clink free	quency Cor QPSK CH (Mid) 20175 23.29 23.23 22.65 22.59 quency Cor QPSK CH	CH (High) 20375 23.47 22.81 22.79 band : 1	710 to 1 cower (d	755 MH Bm) 16QAM CH (Mid) 20175 22.73 22.53 21.74 21.47 755 MH Bm) 16QAM CH	CH (High) 20375 22.97 22.58 21.74 21.73 CH
BW (MHz) 5	RB Size 1 1 12 25 TE Ba	RB Offset 0 24 6 0 Ind 4_Up RB Offset	CH (Low) 19975 23.40 23.28 22.72 22.09 Clink free CH (Low) 20000 23.43	QPSK CH (Mid) 20175 23.29 23.23 22.65 22.59 QPSK CH (Mid) 20175 23.33	CH (High) 20375 23.47 22.81 22.79 band: 1 ducted; CH (High) 20350 23.38	710 to 1 CH (Low) 19975 22.87 22.89 21.75 21.39 710 to 1 cower (d	755 MH Bm) 16QAM CH (Mid) 20175 22.73 22.53 21.74 21.47 755 MH Bm) 16QAM CH (Mid) 20175 22.66	CH (High) 20375 22.97 22.58 21.74 21.73 z CH (High) 20350 22.89
BW (MHz) 5 BW (MHz)	RB Size 1 1 12 25 .TE Ba RB Size	RB Offset 0 24 6 0 Ind 4_Up	CH (Low) 19975 23.40 23.28 22.72 22.09 Clink free CH (Low) 20000 23.43 23.28	quency	CH (High) 20375 23.47 22.81 22.79 band : 1 CH (High) 20350	710 to 1 cower (d	755 MH Bm) 16QAM CH (Mid) 20175 22.73 22.53 21.74 21.47 755 MH Bm) 16QAM CH (Mid) 20175	CH (High) 20375 22.97 22.58 21.74 21.73 CH (High) 20350 22.89 22.73
BW (MHz) 5	RB Size 1 1 12 25 TE Ba RB Size	RB Offset 0 24 6 0 Ind 4_Up RB Offset	CH (Low) 19975 23.40 23.28 22.72 22.09 Clink free CH (Low) 20000 23.43	QPSK CH (Mid) 20175 23.29 23.23 22.65 22.59 QPSK CH (Mid) 20175 23.33	CH (High) 20375 23.47 22.81 22.79 band: 1 ducted; CH (High) 20350 23.38	710 to 1 CH (Low) 19975 22.87 22.89 21.75 21.39 710 to 1 cower (d	755 MH Bm) 16QAM CH (Mid) 20175 22.73 22.53 21.74 21.47 755 MH Bm) 16QAM CH (Mid) 20175 22.66	CH (High) 20375 22.97 22.58 21.74 21.73 z CH (High) 20350 22.89



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LTE Band 4_Uplink frequency band : 1710 to 1755 MHz										
BW (MHz)		RB RB Size Offset	Conducted power (dBm)							
			QPSK			16QAM				
			CH	CH	CH	CH	CH	CH		
(1411 12)			(Low)	(Mid)	(High)	(Low)	(Mid)	(High)		
			20025	20175	20325	20025	20175	20325		
	1	0	23.41	23.39	23.40	22.94	22.61	22.99		
15	1	74	23.27	23.34	23.49	22.76	22.71	22.79		
15	36	19	22.65	22.76	22.75	21.76	21.81	21.68		
	75	0	22.19	22.53	22.81	21.40	21.60	21.71		

LTE Band 4_Uplink frequency band : 1710 to 1755 MHz									
			Conducted power (dBm)						
					(dE	3m)			
BW	RB	RB		QPSK			16QAM	AM	
(MHz)	Size	Offset	CH	CH	CH	CH	CH	CH	
			(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	
			20050	20175	20300	20050	20175	20300	
	1	0	23.56	23.54	23.44	23.04	22.84	23.00	
20	1	99	23.54	23.44	23.60	22.97	22.78	22.84	
20	50	25	22.92	22.89	22.92	21.92	21.92	21.88	
	100	0	22.37	22.71	22.86	21.65	21.71	21.82	

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	LTE	Band 5_	Uplink fr	equency	band: 8	324 to 84	9 MHz	
				Со	nducted p	oower (dE	3m)	
BW	RB	RB		QPSK			16QAM	
(MHz)	Size	Offset	CH	CH	CH	CH	CH	CH
(1411 12)	0120	Onoct	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
			20407	20525	20643	20407	20525	20643
	1	0	22.92	23.20	23.04	21.96	22.09	22.16
1.4	1	5	22.78	22.79	22.79	21.97	22.33	22.06
17	3	2	23.17	23.15	23.13	22.04	21.79	22.14
	6	0	22.01	22.11	22.12	21.18	20.99	21.31
	LTE	Band 5_	Uplink fr	equency	band:8	324 to 84	9 MHz	
				Co	nducted p	ower (dE	3m)	
BW	RB	RB		QPSK			16QAM	
(MHz)	Size	Offset	CH	CH	CH	CH	CH	CH
()	0.20	Cilicot	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
			20415	20525	20635	20415	20525	20635
	1	0	22.79	22.98	22.90	22.27	22.58	22.12
3	1	14	23.13	23.04	23.00	22.40	21.71	22.42
0	8	4	22.18	21.98	22.00	21.07	21.41	21.12
	15	0	22.07	22.13	22.20	21.12	21.05	20.91
LTE Band 5_Uplink frequency band : 824 to 849 MHz								
								20.01
				equency		324 to 84	9 MHz	20.01
BW	LTE	Band 5_		equency Co QPSK	band : 8	324 to 84	9 MHz	20.01
BW (MHz)	RB	Band 5_ RB		equency Co	band : 8	324 to 84	9 MHz 3m)	CH
BW (MHz)	LTE	Band 5_	Uplink fr CH (Low)	Co QPSK CH (Mid)	r band : 8 nducted p CH (High)	oower (dE CH (Low)	9 MHz Bm) 16QAM CH (Mid)	CH (High)
	RB	Band 5_ RB	CH (Low) 20425	Co QPSK CH	r band : 8 nducted p CH (High) 20625	324 to 84 Dower (dE	9 MHz 3m) 16QAM CH (Mid) 20525	CH (High) 20625
	RB	Band 5_ RB	CH (Low) 20425 23.15	Co QPSK CH (Mid) 20525 23.03	chand: 8 nducted producted	CH (Low) 20425 22.36	9 MHz 3m) 16QAM CH (Mid) 20525 22.42	CH (High) 20625 22.92
(MHz)	RB Size	RB Offset	CH (Low) 20425	Co QPSK CH (Mid) 20525	r band : 8 nducted p CH (High) 20625	CH (Low) 20425	9 MHz 3m) 16QAM CH (Mid) 20525	CH (High) 20625
	RB Size	RB Offset	CH (Low) 20425 23.15	Co QPSK CH (Mid) 20525 23.03	chand: 8 nducted producted	CH (Low) 20425 22.36	9 MHz 3m) 16QAM CH (Mid) 20525 22.42	CH (High) 20625 22.92
(MHz)	RB Size	RB Offset	CH (Low) 20425 23.15 23.02	Co QPSK CH (Mid) 20525 23.03 23.08	CH (High) 20625 23.22 22.89	CH (Low) 20425 22.36 22.07	9 MHz Bm) 16QAM CH (Mid) 20525 22.42 22.39	CH (High) 20625 22.92 22.26
(MHz)	RB Size 1 1 12 25	RB Offset 0 24 6 0	CH (Low) 20425 23.15 23.02 22.06 22.13	Co QPSK CH (Mid) 20525 23.03 23.08 22.15 21.74	CH (High) 20625 23.22 22.89 22.28	CH (Low) 20425 22.36 22.07 21.03 21.01	9 MHz 3m) 16QAM CH (Mid) 20525 22.42 22.39 21.15 21.09	CH (High) 20625 22.92 22.26 20.98
(MHz)	RB Size 1 1 12 25	RB Offset 0 24 6 0	CH (Low) 20425 23.15 23.02 22.06 22.13	Co QPSK CH (Mid) 20525 23.03 23.08 22.15 21.74	CH (High) 20625 23.22 22.89 22.28 22.02	CH (Low) 20425 22.36 22.07 21.03 21.01	9 MHz 3m) 16QAM CH (Mid) 20525 22.42 22.39 21.15 21.09	CH (High) 20625 22.92 22.26 20.98
(MHz) 5	RB Size 1 1 12 25 LTE	RB Offset 0 24 6 0 Band 5_	CH (Low) 20425 23.15 23.02 22.06 22.13 Uplink fr	Co QPSK CH (Mid) 20525 23.03 23.08 22.15 21.74 Co QPSK	CH (High) 20625 23.22 22.89 22.28 22.02 band : 8	CH (Low) 20425 22.36 22.07 21.03 21.01 324 to 84	9 MHz Bm) 16QAM CH (Mid) 20525 22.42 22.39 21.15 21.09 9 MHz Bm) 16QAM	CH (High) 20625 22.92 22.26 20.98 21.60
(MHz) 5	RB Size 1 1 12 25 LTE	RB Offset 0 24 6 0 Band 5_	CH (Low) 20425 23.15 23.02 22.06 22.13	Co QPSK CH (Mid) 20525 23.03 23.08 22.15 21.74 requency	CH (High) 20625 23.22 22.89 22.28 22.02 band : 8 nducted p	CH (Low) 20425 22.36 22.07 21.03 21.01	9 MHz 3m) 16QAM CH (Mid) 20525 22.42 22.39 21.15 21.09 9 MHz 3m)	CH (High) 20625 22.92 22.26 20.98
(MHz) 5	RB Size 1 1 12 25 LTE	RB Offset 0 24 6 0 Band 5_	CH (Low) 20425 23.15 23.02 22.06 22.13 Uplink fr	Co QPSK CH (Mid) 20525 23.03 23.08 22.15 21.74 Co QPSK CH (Mid)	CH (High) 20625 23.22 22.89 22.28 22.02 band:8 nducted p	CH (Low) 20425 22.07 21.03 21.01 CH (Low) CH (Low)	9 MHz Bm) 16QAM CH (Mid) 20525 22.42 22.39 21.15 21.09 9 MHz Bm) 16QAM CH (Mid)	CH (High) 20625 22.92 22.26 20.98 21.60 CH (High)
(MHz) 5	RB Size 1 1 12 25 LTE RB Size	RB Offset 0 24 6 0 Band 5_ RB Offset	CH (Low) 20425 23.15 23.02 22.06 22.13 Uplink from CH (Low) 20450	Co QPSK CH (Mid) 20525 23.03 23.08 22.15 21.74 equency Co QPSK CH (Mid) 20525	CH (High) 20625 23.22 22.89 22.28 22.02 band : 8 CH (High) 20600	CH (Low) 20425 22.36 22.07 21.03 21.01 324 to 84 cower (dE	9 MHz 3m) 16QAM CH (Mid) 20525 22.42 22.39 21.15 21.09 9 MHz 3m) 16QAM CH (Mid) 20525	CH (High) 20625 22.92 22.26 20.98 21.60 CH (High) 20600
(MHz) 5	RB Size 1 1 12 25 LTE	RB Offset 0 24 6 0 Band 5 RB Offset 0	CH (Low) 20425 23.02 22.06 22.13 Uplink from (Low) 20450 23.05	Co QPSK CH (Mid) 20525 23.03 23.08 22.15 21.74 Co QPSK CH (Mid)	CH (High) 20625 23.22 22.89 22.28 22.02 band:8 nducted p	CH (Low) 20425 22.36 22.07 21.03 21.01 CH (Low) 20450 22.36	9 MHz Bm) 16QAM CH (Mid) 20525 22.42 22.39 21.15 21.09 9 MHz Bm) 16QAM CH (Mid) 20525 22.54	CH (High) 20625 22.92 22.26 20.98 21.60 CH (High) 20600 22.88
(MHz) 5 BW (MHz)	RB Size 1 1 12 25 LTE RB Size	RB Offset 0 24 6 0 Band 5_ RB Offset 0 49	CH (Low) 20425 23.02 22.06 22.13 Uplink fr (Low) 20450 23.05 22.59	Co QPSK CH (Mid) 20525 23.03 23.08 22.15 21.74 cequency Co QPSK CH (Mid) 20525 22.94 22.74	CH (High) 20625 23.22 22.89 22.28 22.02 band: 8 nducted p CH (High) 20600 23.35 22.78	CH (Low) 20425 22.36 22.07 21.03 21.01 CH (Low) 20450 22.36 22.23	9 MHz 3m) 16QAM CH (Mid) 20525 22.42 22.39 21.15 21.09 9 MHz 3m) 16QAM CH (Mid) 20525 22.54 22.33	CH (High) 20625 22.92 22.26 20.98 21.60 CH (High) 20600 22.88 22.49
(MHz) 5	RB Size 1 1 12 25 LTE RB Size	RB Offset 0 24 6 0 Band 5 RB Offset 0	CH (Low) 20425 23.02 22.06 22.13 Uplink from (Low) 20450 23.05	Co QPSK CH (Mid) 20525 23.03 23.08 22.15 21.74 Cequency Co QPSK CH (Mid) 20525 22.94	CH (High) 20625 23.22 22.89 22.28 22.02 band : 8 nducted p	CH (Low) 20425 22.36 22.07 21.03 21.01 CH (Low) 20450 22.36	9 MHz Bm) 16QAM CH (Mid) 20525 22.42 22.39 21.15 21.09 9 MHz Bm) 16QAM CH (Mid) 20525 22.54	CH (High) 20625 22.92 22.26 20.98 21.60 CH (High) 20600 22.88

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L	TE Ba	LTE Band 7_Uplink frequency band : 2500 to 2570 MHz								
				Cor	nducted p	oower (d	Bm)			
BW	RB	RB		QPSK			16QAM			
(MHz)	Size	Offset	CH	CH	CH	CH	CH	CH		
(1411 12)	OIZC	Onoct	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)		
			20775	21100	21425	20775	21100	21425		
	1	0	24.07	23.79	23.49	23.32	23.07	22.64		
5	1	24	23.93	23.74	23.26	23.17	23.09	22.70		
Ŭ	12	6	23.02	22.70	22.47	22.06	21.80	21.39		
	25	0	22.99	22.71	22.42	22.02	21.77	21.39		
L	LTE Band 7_Uplink frequency band : 2500 to 2570 MHz									
					nducted p	ower (d				
BW	RB	RB		QPSK			16QAM			
(MHz)	Size	Offset	CH	CH	CH	CH	CH	CH		
,			(Low)	(Mid)	(High)	(Low)	(Mid)	(High)		
			20800	21100	21400	20800	21100	21400		
	1	0	24.11	24.06	23.84	23.67	23.27	23.21		
10	1	49	24.17	23.88	23.59	23.49	23.19	22.89		
	25	12	23.04	22.77	22.46	22.03	21.78	21.53		
	50	0	23.10	22.84	22.57	22.13	21.90	21.55		
L	TE Ba	nd 7_U	olink fre	quency				Z		
					nducted p	ower (d				
BW	RB	RB		QPSK			16QAM			
(MHz)	Size	Offset	CH	CH	CH	CH	CH	CH		
			(Low)	(Mid)	(High)	(Low)	(Mid)	(High)		
	4		20825	21100	21375	20825	21100	21375		
	1	0	23.98	23.76	23.60	23.31	23.02	22.78		
15	1	74	23.85	23.73	23.39	23.16	23.05	22.74		
		40	00000	00.70			01.00			
1	36	19	22.99	22.79	22.57	22.00	21.80	21.53		
	75	0	23.02	22.81	22.57 22.58	22.00 21.98	21.80	21.53 21.54		
L	75	0	23.02	22.81 quency	22.57 22.58 band : 2	22.00 21.98 500 to 2	21.80 570 MH	21.53 21.54		
L	75	0	23.02	22.81 quency Cor	22.57 22.58	22.00 21.98 500 to 2	21.80 570 MH Bm)	21.53 21.54		
L BW	75	0	23.02 Dlink fre	22.81 quency Cor QPSK	22.57 22.58 band : 2 nducted p	22.00 21.98 2500 to 2 2500 to 2	21.80 570 MH Bm) 16QAM	21.53 21.54 z		
	75 . TE Ba	0 i nd 7_U լ	23.02 Dlink fre	22.81 quency Cor QPSK CH	22.57 22.58 band : 2 ducted p	22.00 21.98 500 to 2 cower (d	21.80 570 MH Bm) 16QAM CH	21.53 21.54 z		
BW	75 TE Ba RB	0 nd 7_U RB	23.02 Dlink fre CH (Low)	22.81 quency Cor QPSK CH (Mid)	22.57 22.58 band : 2 ducted p CH (High)	22.00 21.98 500 to 2 cower (d CH (Low)	21.80 570 MH Bm) 16QAM CH (Mid)	21.53 21.54 Z CH (High)		
BW	75 TE Ba RB Size	0 I nd 7_Up RB Offset	CH (Low) 20850	22.81 quency Cor QPSK CH (Mid) 21100	22.57 22.58 band : 2 ducted p CH (High) 21350	22.00 21.98 500 to 2 cower (d CH (Low) 20850	21.80 570 MH Bm) 16QAM CH (Mid) 21100	21.53 21.54 z CH (High) 21350		
BW (MHz)	75 TE Ba RB Size	0 nd 7_Up RB Offset	23.02 Dlink fre CH (Low) 20850 24.18	22.81 quency Cor QPSK CH (Mid) 21100 23.61	22.57 22.58 band : 2 ducted p CH (High) 21350 23.78	22.00 21.98 2500 to 2 cower (d CH (Low) 20850 23.50	21.80 570 MH Bm) 16QAM CH (Mid) 21100 22.90	21.53 21.54 z CH (High) 21350 22.94		
BW	75 TE Ba RB Size 1	0 nd 7_Up RB Offset 0 99	23.02 clink fre CH (Low) 20850 24.18 23.91	22.81 quency Cor QPSK CH (Mid) 21100 23.61 23.77	22.57 22.58 band : 2 nducted p CH (High) 21350 23.78 23.41	22.00 21.98 500 to 2 cower (d CH (Low) 20850 23.50 23.24	21.80 570 MH Bm) 16QAM CH (Mid) 21100 22.90 23.08	21.53 21.54 Z CH (High) 21350 22.94 22.69		
BW (MHz)	75 TE Ba RB Size	0 nd 7_Up RB Offset	23.02 Dlink fre CH (Low) 20850 24.18	22.81 quency Cor QPSK CH (Mid) 21100 23.61	22.57 22.58 band : 2 ducted p CH (High) 21350 23.78	22.00 21.98 2500 to 2 cower (d CH (Low) 20850 23.50	21.80 570 MH Bm) 16QAM CH (Mid) 21100 22.90	21.53 21.54 z CH (High) 21350 22.94		

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	LTE Ba	and 12_	Uplink fr	equenc	y band :	699 to	716 MHz	
				Cor	ducted p	ower (d	Bm)	
BW	RB	DD		QPSK		Ì	16QAM	
	Size	RB Offset	CH	CH	CH	CH	CH	CH
(MHz)	Size	Oliset	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
			23017	23095	23173	23017	23095	23173
	1	0	22.89	23.05	22.94	22.20	22.06	22.00
1.4	1	5	23.05	22.87	22.89	22.17	21.91	22.25
1.4	3	2	22.97	22.96	22.95	21.91	21.97	21.89
	6	0	22.02	22.02 22.02 21.77			21.12	20.89
	LTE Ba	and 12_l	_Uplink frequency band : 699 to 716 MHz					
				Cor	iducted p	ower (d	Bm)	
BW	RB	RB		QPSK			16QAM	
(MHz)	Size	Offset	CH	CH	CH	CH	CH	CH
(1411 12)	OIZO	Onoct	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
			23025	23095	23165	23025	23095	23165
	1	0	23.15	23.05	23.16	22.40	22.08	22.32
3	1	14	23.05	22.84	22.98	22.13	22.42	22.03
	8	4	22.05	22.00	22.13	21.10	20.87	21.20
	15	0	22.14	21.96	22.00	21.12	21.06	20.91
	LTE Band 12_Uplink frequency band : 699 to 716 MHz							
				equenc		699 to	716 MHz	
	LTE Ba	and 12_		equenc	y band :	699 to	716 MHz	
BW	RB	and 12_l RB		cequenc Cor QPSK CH	y band : ducted p	699 to	716 MHz Bm)	СН
	LTE Ba	and 12_	Uplink fr CH (Low)	Cor QPSK CH (Mid)	y band : ducted p CH (High)	699 to 2 cower (d CH (Low)	716 MHz Bm) 16QAM CH (Mid)	CH (High)
BW	RB Size	and 12_l RB	CH (Low) 23035	Cor QPSK CH (Mid) 23095	y band : ducted p CH (High) 23155	699 to 3 cower (d CH (Low) 23035	716 MHz Bm) 16QAM CH (Mid) 23095	CH (High) 23155
BW	RB	RB Offset	CH (Low) 23035 23.16	Cor QPSK CH (Mid) 23095 23.18	y band : ducted p CH (High) 23155 23.03	699 to 7 cower (d CH (Low) 23035 22.51	716 MHz Bm) 16QAM CH (Mid) 23095 22.35	CH (High) 23155 22.41
BW (MHz)	RB Size	RB Offset	CH (Low) 23035	Cor QPSK CH (Mid) 23095	y band : ducted p CH (High) 23155	699 to 3 cower (d CH (Low) 23035	716 MHz Bm) 16QAM CH (Mid) 23095	CH (High) 23155
BW	RB Size	RB Offset	CH (Low) 23035 23.16	Cor QPSK CH (Mid) 23095 23.18	y band : ducted p CH (High) 23155 23.03	699 to 7 cower (d CH (Low) 23035 22.51	716 MHz Bm) 16QAM CH (Mid) 23095 22.35	CH (High) 23155 22.41
BW (MHz)	RB Size	RB Offset	CH (Low) 23035 23.16 23.18	Cor QPSK CH (Mid) 23095 23.18	y band : ducted p CH (High) 23155 23.03 23.17	CH (Low) 23035 22.51 22.16	716 MHz Bm) 16QAM CH (Mid) 23095 22.35 22.08	CH (High) 23155 22.41 22.09
BW (MHz)	RB Size	RB Offset 0 24 6 0	CH (Low) 23035 23.16 22.09 22.04	Cor QPSK CH (Mid) 23095 23.18 23.02 22.05 22.05	y band : ducted p CH (High) 23155 23.03 23.17 21.96	CH (Low) 23035 22.51 22.16 21.12 20.85	716 MHz Bm) 16QAM CH (Mid) 23095 22.35 22.08 21.12 20.89	CH (High) 23155 22.41 22.09 21.02 21.11
BW (MHz)	RB Size	RB Offset 0 24 6 0	CH (Low) 23035 23.16 22.09 22.04	Cor QPSK CH (Mid) 23095 23.18 23.02 22.05 22.05 requence	CH (High) 23155 23.03 23.17 21.96 22.00	CH (Low) 23035 22.51 22.16 21.12 20.85	716 MHz Bm) 16QAM CH (Mid) 23095 22.35 22.08 21.12 20.89	CH (High) 23155 22.41 22.09 21.02 21.11
BW (MHz)	RB Size 1 1 12 25	RB Offset 0 24 6 0	CH (Low) 23035 23.16 23.18 22.09 22.04 Uplink fr	Cor QPSK CH (Mid) 23095 23.18 23.02 22.05 22.05 requenc QPSK	CH (High) 23155 23.03 23.17 21.96 22.00 y band :	CH (Low) 23035 22.51 22.16 21.12 20.85 699 to 7	716 MHz Bm) 16QAM CH (Mid) 23095 22.35 22.08 21.12 20.89 716 MHz Bm) 16QAM	CH (High) 23155 22.41 22.09 21.02 21.11
BW (MHz)	RB Size 1 1 12 25 LTE Ba	RB Offset 0 24 6 0 and 12_I	CH (Low) 23035 23.16 22.09 22.04 Uplink fr	Cor QPSK CH (Mid) 23095 23.18 23.02 22.05 22.05 requenc Cor QPSK CH	y band : ducted p CH (High) 23155 23.03 23.17 21.96 22.00 y band : ducted p	CH (Low) 23035 22.51 22.16 21.12 20.85 Cower (d	716 MHz Bm) 16QAM CH (Mid) 23095 22.35 22.08 21.12 20.89 716 MHz Bm) 16QAM CH	CH (High) 23155 22.41 22.09 21.02 21.11
BW (MHz)	RB Size 1 1 12 25	RB Offset 0 24 6 0	CH (Low) 23035 23.16 23.18 22.09 22.04 Uplink fr	Cor QPSK CH (Mid) 23095 23.18 23.02 22.05 22.05 requenc Cor QPSK CH (Mid)	y band : ducted p CH (High) 23155 23.03 23.17 21.96 22.00 y band : ducted p	CH (Low) 23035 22.51 22.16 21.12 20.85 699 to 7 cower (d	716 MHz Bm) 16QAM CH (Mid) 23095 22.35 22.08 21.12 20.89 716 MHz Bm) 16QAM CH (Mid)	CH (High) 23155 22.41 22.09 21.02 21.11
BW (MHz)	RB Size 1 1 12 25 LTE Ba	RB Offset 0 24 6 0 and 12_I RB Offset	CH (Low) 23035 23.16 22.09 22.04 Uplink from CH (Low) 23060	Cor QPSK CH (Mid) 23095 23.18 23.02 22.05 22.05 Cor QPSK CH (Mid) 23095	y band : ducted p CH (High) 23155 23.03 23.17 21.96 22.00 y band : ducted p CH (High) 23130	CH (Low) 23035 22.51 22.16 21.12 20.85 699 to 7 CH (Low) 23060	716 MHz Bm) 16QAM CH (Mid) 23095 22.35 22.08 21.12 20.89 716 MHz Bm) 16QAM CH (Mid) 23095	CH (High) 23155 22.41 22.09 21.02 21.11 CH (High) 23130
BW (MHz)	RB Size 1 1 12 25 LTE Ba RB Size	RB Offset 0 24 6 0 and 12_L RB Offset	CH (Low) 23035 23.16 22.09 22.04 Uplink from CH (Low) 23060 23.28	Cor QPSK CH (Mid) 23095 23.18 23.02 22.05 22.05 Cor QPSK CH (Mid) 23095 23.08	y band : ducted p CH (High) 23155 23.03 23.17 21.96 22.00 y band : ducted p CH (High) 23130 23.22	CH (Low) 23035 22.51 22.16 21.12 20.85 699 to 7 cower (d	716 MHz Bm) 16QAM CH (Mid) 23095 22.35 22.08 21.12 20.89 716 MHz Bm) 16QAM CH (Mid) 23095 22.23	CH (High) 23155 22.41 22.09 21.02 21.11 CH (High) 23130 22.27
BW (MHz)	RB Size 1 1 12 25 LTE Ba RB Size 1 1 1	RB Offset 0 24 6 0 and 12_t RB Offset 0 49	CH (Low) 23035 23.16 23.18 22.09 22.04 Uplink from CH (Low) 23060 23.28 23.17	Cor QPSK CH (Mid) 23095 23.18 23.02 22.05 22.05 Cor QPSK CH (Mid) 23095 23.08 23.21	y band : ducted p CH (High) 23155 23.03 23.17 21.96 22.00 y band : ducted p CH (High) 23130 23.22 23.09	CH (Low) 23035 22.51 22.16 21.12 20.85 699 to 7 00wer (d	716 MHz Bm) 16QAM CH (Mid) 23095 22.35 22.08 21.12 20.89 716 MHz Bm) 16QAM CH (Mid) 23095 22.23 22.63	CH (High) 23155 22.41 22.09 21.02 21.11 CH (High) 23130 22.27 22.32
BW (MHz)	RB Size 1 1 12 25 LTE Ba RB Size	RB Offset 0 24 6 0 and 12_L RB Offset	CH (Low) 23035 23.16 22.09 22.04 Uplink from CH (Low) 23060 23.28	Cor QPSK CH (Mid) 23095 23.18 23.02 22.05 22.05 Cor QPSK CH (Mid) 23095 23.08	y band : ducted p CH (High) 23155 23.03 23.17 21.96 22.00 y band : ducted p CH (High) 23130 23.22	CH (Low) 23035 22.51 22.16 21.12 20.85 699 to 7 cower (d	716 MHz Bm) 16QAM CH (Mid) 23095 22.35 22.08 21.12 20.89 716 MHz Bm) 16QAM CH (Mid) 23095 22.23	CH (High) 23155 22.41 22.09 21.02 21.11 CH (High) 23130 22.27

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	LTE Band 13_Uplink frequency band : 777 to 787 MHz										
				Conducted power (dBm)							
BW RB	DR	RB		QPSK			16QAM				
(MHz)	Size	Offset	CH	CH	CH	CH	CH	CH			
(1411 12)	OIZE	Oliset	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)			
			23205	23230	23255	23205	23230	23255			
	1	0	23.36	23.41	23.27	22.27	22.29	22.46			
5	1	24	23.22	23.11	23.15	22.25	22.03	22.36			
3	12	6	22.13	22.11	22.29	21.12	21.17	21.38			
	25	0	22.10	22.06	22.29	21.16	21.14	21.21			

	LTE Band 13_Uplink frequency band : 777 to 787 MHz								
			Conducted power (dBm)						
BW	RB	RB	QPSK	16QAM					
(MHz)	Size	Offset	CH	CH					
(1011 12)	Size	Oliset	(Mid)	(Mid)					
			23230	23230					
	1	0	23.27	22.26					
10	1	49	23.12	22.64					
10	25	12	22.19	21.26					
	50	0	22.38	21.27					

	LTE Band 17_Uplink frequency band : 704 to 716 MHz										
				Conducted power (dBm)							
BW RB	RB	RB		QPSK			16QAM				
(MHz)	Size	Offset	CH	CH	CH	CH	CH	CH			
(1011 12)	OIZE	Oliset	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)			
			23755	23790	23825	23755	23790	23825			
	1	0	23.14	23.35	23.14	22.09	22.06	21.97			
5	1	24	23.21	22.99	22.96	22.34	22.40	22.12			
5	12	6	21.97	21.93	22.01	20.97	20.92	21.01			
	25	0	22.00	21.84	21.86	20.94	21.00	20.98			

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LTE Band 17_Uplink frequency band : 704 to 716 MHz										
			Conducted power (dBm)							
BW R	RB	RB		QPSK			16QAM			
(MHz)	Size	Offset	CH	CH	CH	CH	CH	CH		
(1411 12)	OIZE	Oliset	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)		
			23780	23790	23800	23780	23790	23800		
	1	0	23.05	23.02	22.94	22.19	21.92	22.36		
10	1	49	22.88	22.88	22.77	22.35	22.10	22.06		
10	25	12	22.01	21.97	22.13	21.08	20.80	20.88		
	50	0	22.00	22.03	22.08	20.92	21.03	21.06		

L	LTE Band 25_Uplink frequency band : 1850 to 1915 MHz										
			Conducted power (dBm)								
BW	RB	RB		QPSK			16QAM				
(MHz)	Size	Offset	CH	CH	CH	CH	CH	CH			
(1711 12)	SIZE	Oliset	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)			
			26047	26365	26683	26047	26365	26683			
	1	0	24.12	24.20	23.15	23.48	23.47	22.06			
1.4	1	5	24.05	24.22	23.10	23.33	23.62	22.07			
1.4	3	2	24.19	24.27	23.05	23.39	23.28	22.05			
	6	0	23.21	23.22	22.13	22.39	22.27	21.03			

Ľ	LTE Band 25_Uplink frequency band : 1850 to 1915 MHz										
				Conducted power (dBm)							
BW RB	DR	RB		QPSK			16QAM				
(MHz)	Size	Offset	CH	CH	CH	CH	CH	CH			
(1711 12)	OIZE	Oliset	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)			
			26055	26365	26675	26055	26365	26675			
	1	0	24.14	24.20	23.14	23.58	23.53	22.29			
3	1	14	24.19	24.07	23.09	23.46	23.52	22.04			
3	8	4	23.31	23.27	22.03	22.38	22.32	21.15			
	15	0	23.28	23.26	22.02	22.29	22.30	21.06			

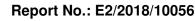
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LTE Band 25_Uplink frequency band : 1850 to 1915 MHz									
			Conducted power (dBm)						
BW	RB	RB		QPSK			16QAM		
(MHz)	Size	Offset	CH	CH	CH	CH	CH	CH	
(1411 12)	OIZC	Oliset	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	
			26065	26365	26665	26065	26365	26665	
	1	0	24.21	24.29	23.14	23.59	23.58	22.40	
5	1	24	24.20	24.25	23.07	23.56	23.48	22.08	
3	12	6	23.32	23.29	22.26	22.34	22.30	21.27	
	25	0	23.29	23.24	22.01	22.31	22.27	21.04	

Ľ	LTE Band 25_Uplink frequency band : 1850 to 1915 MHz										
				Conducted power (dBm)							
BW	RB	RB		QPSK			16QAM				
(MHz)	Size	Offset	CH	CH	CH	CH	CH	CH			
(1011 12)	SIZE	Oliset	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)			
			26090	26365	26640	26090	26365	26640			
	1	0	24.12	24.19	23.12	23.62	23.55	22.27			
10	1	49	24.40	24.24	23.09	23.76	23.54	22.04			
10	25	12	23.35	23.37	22.20	22.35	22.36	21.26			
	50	0	23.39	23.39	22.03	22.42	22.28	21.02			

Ľ	LTE Band 25_Uplink frequency band : 1850 to 1915 MHz										
				Conducted power (dBm)							
BW	RB	RB		QPSK			16QAM				
(MHz)	Size	Offset	CH	CH	CH	CH	CH	CH			
(IVII IZ)	SIZE	oize Oliset	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)			
			26115	26365	26615	26115	26365	26615			
	1	0	24.16	24.18	23.64	23.57	23.54	22.95			
15	1	74	24.35	24.29	23.07	23.61	23.60	22.04			
13	36	19	23.27	23.36	22.15	22.28	22.36	21.20			
	75	0	23.31	23.36	22.12	22.30	22.29	21.17			

L	LTE Band 25_Uplink frequency band : 1850 to 1915 MHz									
			Conducted power (dBm)							
					(dE	Bm)				
BW	RB	RB		QPSK 16QAM						
(MHz)	Size	Offset	CH	CH	CH	CH	CH	CH		
			(Low)	(Mid)	(High)	(Low)	(Mid)	(High)		
			26140	26365	26590	26140	26365	26590		
	1	0	24.36	24.34	24.30	23.64	23.66	23.62		
20	1	99	24.49	24.34	23.01	23.79	23.61	22.08		
20	50	25	23.42	23.40	22.42	22.42	22.38	21.37		
	100	0	23.42	23.45	22.02	22.41	22.39	21.23		

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	LTE Band 26_Uplink frequency band : 824 to 849 MHz									
				Conducted power (dBm)						
BW	RB	RB		QPSK			16QAM			
(MHz)	Size	Offset	CH	CH	CH	CH	CH	CH		
(1411 12)	OIZE	Oliset	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)		
			26697	26865	27033	26697	26865	27033		
	1	0	23.22	23.44	23.23	22.43	22.63	22.53		
1.4	1	5	23.13	23.63	23.05	22.29	22.80	22.33		
1.4	3	2	23.22	23.69	23.19	22.15	22.68	22.19		
	6	0	22.18	22.63	22.13	21.42	21.70	21.35		

	LTE Band 26_Uplink frequency band : 824 to 849 MHz									
				Cor	nducted p	ower (d	Bm)			
BW	RB	RB		QPSK			16QAM			
(MHz)	Size	Offset	CH	CH	CH	CH	CH	CH		
(1011 12)	Size	Oliset	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)		
			26705	26865	27025	26705	26865	27025		
	1	0	23.46	23.55	23.56	22.55	22.83	22.75		
3	1	14	23.07	23.62	23.24	22.28	22.95	22.34		
3	8	4	22.15	22.67	22.26	21.37	21.83	21.49		
	15	0	22.19	22.65	22.30	21.35	21.74	21.48		

	LTE Band 26_Uplink frequency band : 824 to 849 MHz									
		Conducted power (dBm)								
BW	RB	RB		QPSK			16QAM			
(MHz)	Size	Offset	CH	CH	CH	CH	CH	CH		
(1711 12)	OIZE	Oliset	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)		
			26715	26865	27015	26715	26865	27015		
	1	0	23.19	23.55	23.68	22.43	22.81	22.98		
5	1	24	22.54	23.65	23.13	21.92	22.91	22.51		
3	12	6	22.16	22.72	22.73	21.26	21.81	21.75		
	25	0	22.09	22.57	22.49	21.17	21.67	21.63		

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	LTE Band 26_Uplink frequency band : 824 to 849 MHz									
				Conducted power (dBm)						
BW	RB	RB		QPSK			16QAM			
(MHz)	Size	Offset	CH	CH	CH	CH	CH	CH		
(1011 12)	SIZE	Oliset	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)		
			26750	26865	26990	26750	26865	26990		
	1	0	22.90	23.38	23.68	22.23	22.65	22.99		
10	1	49	23.00	23.57	23.24	22.27	22.89	22.49		
10	25	12	22.37	22.68	22.92	21.34	21.66	21.92		
	50	0	22.25	22.52	22.60	21.29	21.55	21.75		

	LTE Band 26_Uplink frequency band : 824 to 849 MHz									
				Conducted power (dBm)						
BW	RB	RB		QPSK			16QAM			
(MHz)	Size	Offset	CH	CH	CH	CH	CH	CH		
(1011 12)	SIZE	Oliset	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)		
			26775	26865	26965	26775	26865	26965		
	1	0	23.05	23.52	23.39	22.35	22.85	22.78		
15	1	74	23.33	23.62	23.18	22.63	22.90	22.59		
13	36	19	22.54	22.64	22.88	21.56	21.75	21.95		
	75	0	22.48	22.58	22.67	21.52	21.64	21.75		

Ľ	LTE Band 30_Uplink frequency band : 2305 to 2315 MHz									
				Conducted power (dBm)						
BW	RB	RB		QPSK			16QAM			
(MHz)	Size	Offset	CH	СН	CH	CH	CH	CH		
(1711 12)	OIZE	Oliset	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)		
			27685	27710	27735	27685	27710	27735		
	1	0	24.28	24.21	24.26	23.70	23.57	23.64		
5	1	24	24.31	24.25	23.63	23.54	23.53	22.81		
)	12	6	23.30	23.35	23.30	22.37	22.40	22.26		
	25	0	23.25	23.30	23.26	22.30	22.39	22.35		

L	LTE Band 30_Uplink frequency band : 2305 to 2315 MHz								
			Conducted power (dBm)						
BW	RB	RB	QPSK	16QAM					
(MHz)	Size	Offset	CH	CH					
(1411 12)	Oize	Oliset	(Mid)	(Mid)					
			27710	27710					
	1	0	24.37	23.82					
10	1	49	23.63	22.84					
10	25	12	23.39	22.36					
	50	0	23.42	22.38					

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Part 9	Part 90S_LTE Band 26_Uplink frequency band : 814 to 824 MHz											
				Conducted power (dBm)								
BW	RB	RB		QPSK			16QAM					
(MHz)	Size	Offset	CH	CH	CH	CH	CH	CH				
(1011 12)	OIZE	Oliset	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)				
			26697	26740	26783	26697	26740	26783				
	1	0	23.11	23.34	23.18	22.35	22.57	22.42				
1.4	1	5	23.17	23.57	23.00	22.24	22.67	22.31				
1.4	3	2	23.15	23.61	23.16	22.08	22.53	22.11				
	6	0	22.08	22.60	22.14	21.34	21.64	21.19				

Part 9	Part 90S_LTE Band 26_Uplink frequency band : 814 to 824 MHz									
			Conducted power (dBm)							
BW	RB	RB		QPSK			16QAM			
(MHz)	Size	Offset	CH	CH	CH	CH	CH	CH		
(1711 12)	SIZE	Oliset	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)		
			26705	26740	26775	26705	26740	26775		
	1	0	23.37	23.42	23.51	22.65	22.68	22.64		
3	1	14	22.95	23.57	23.21	22.16	22.87	22.27		
3	8	4	22.11	22.61	22.24	21.27	21.76	21.39		
	15	0	22.13	22.60	22.24	21.26	21.65	21.41		

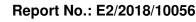
Part 9	Part 90S_LTE Band 26_Uplink frequency band : 814 to 824 MHz									
				Conducted power (dBm)						
BW	RB	RB		QPSK		16QAM				
(MHz)	Size	Offset	CH	CH	CH	CH	CH	CH		
(1411 12)	OIZC	Oliset	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)		
			26715	26740	26765	26715	26740	26765		
	1	0	23.15	23.49	23.59	22.37	22.77	22.85		
5	1	24	22.49	23.61	23.08	21.89	22.86	22.49		
]	12	6	22.11	22.64	22.67	21.21	21.75	21.67		
	25	0	22.04	22.67	22.37	21.09	21.59	21.55		

Part 9	Part 90S_LTE Band 26_Uplink frequency band : 814 to 824 MHz								
			Conducted power (dBm)						
BW	RB	RB	QPSK	16QAM					
(MHz)	Size	Offset	CH	CH					
(1011 12)	Size	Oliset	(Mid)	(Mid)					
			26740	26740					
	1	0	23.31	22.61					
10	1	49	23.49	22.76					
10	25	12	22.61	21.59					
	50	0	22.48	21.46					

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LTE Band 38_Uplink frequency band : 2570 to 2620 MHz										
				Conducted power (dBm)						
BW (MHz)	RB	RB		QPSK			16QAM	CH (High) 38225 23.60 23.67 22.51		
	Size	Offset	CH	CH	CH	CH	CH	CH		
(1411 12)	Size	Oliset	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)		
			37775	38000	38225	37775	38000	38225		
	1	0	23.60	23.70	24.41	22.80	22.82	23.60		
5	1	24	23.40	23.71	24.41	22.65	22.94	23.67		
3	12	6	22.54	22.75	23.51	21.56	21.76	22.51		
	25	0	22.54	22.73	23.45	21.58	21.78	22.52		

L	LTE Band 38_Uplink frequency band : 2570 to 2620 MHz											
				Cor	nducted p	oower (d	Bm)	CH (High) 38200 23.70 23.69				
BW	RB	RB		QPSK			16QAM	CH (High) 38200 23.70 23.69 22.44				
(MHz)	Size	Offset	CH	CH	CH	CH	CH	CH				
(IVIITZ)	Size	Oliset	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)				
			37800	38000	38200	37800	38000	38200				
	1	0	23.69	23.81	24.36	22.95	23.09	23.70				
10	1	49	23.44	23.81	24.41	22.71	23.06	23.69				
10	25	12	22.51	22.79	23.41	21.54	21.81	22.44				
	50	0	22.56	22.79	23.46	21.58	21.83	22.48				

Ľ	LTE Band 38_Uplink frequency band : 2570 to 2620 MHz										
			Conducted power (dBm)								
BW	RB	RB		QPSK			16QAM	CH (High) 38175 23.53			
(MHz)	Size	Offset	CH	CH	CH	CH	CH	CH			
(1711 12)	SIZE	Oliset	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)			
			37825	38000	38175	37825	38000	38175			
	1	0	24.03	24.12	24.50	23.04	23.27	23.53			
15	1	74	23.65	24.13	24.11	22.84	23.32	23.41			
13	36	19	22.53	22.86	23.20	21.50	21.79	22.19			
	75	0	22.63	22.94	23.33	21.58	21.89	22.23			

Ľ	LTE Band 38_Uplink frequency band : 2570 to 2620 MHz										
				Cor	iducted p	oower (d	Bm)				
BW	RB	RB		QPSK			16QAM				
(MHz)	Size	Offset	CH	CH	CH	CH	CH	CH			
(1411 12)	OIZE	oize Oliset	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)			
			37850	38000	38150	37850	38000	38150			
	1	0	24.21	24.30	24.57	23.35	23.49	23.83			
20	1	99	23.64	24.23	24.54	22.88	23.42	23.76			
20	50	25	22.54	22.87	23.29	21.57	21.87	22.25			
	100	0	22.61	22.99	23.39	21.72	21.92	22.38			

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L	LTE Band 41_Uplink frequency band : 2496 to 2690 MHz										
				Cor	iducted p	ower (d	Bm)				
BW (MHz)	RB	RB		QPSK			16QAM	CH (High) 41565 23.32 23.22 22.18			
	Size	Offset	CH	CH	CH	CH	CH	CH			
	Size	Oliset	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)			
			39675	40620	41565	39675	40620	41565			
	1	0	24.16	23.79	24.15	23.34	23.03	23.32			
5	1	24	23.98	23.64	23.98	23.31	22.98	23.22			
3	12	6	23.10	22.76	23.09	22.14	21.83	22.18			
	25	0	23.05	22.75	23.11	22.15	21.81	22.19			

L	LTE Band 41_Uplink frequency band : 2496 to 2690 MHz											
			Conducted power (dBm)									
BW	RB	RB		QPSK			16QAM	CH (High) 41540 23.48 23.26 22.15				
(MHz)	Size	Offset	CH	CH	CH	CH	CH	CH				
	SIZE	Oliset	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)				
			39700	40620	41540	39700	40620	41540				
	1	0	24.10	23.76	24.23	23.37	23.10	23.48				
10	1	49	24.06	23.73	24.07	23.24	23.05	23.26				
10	25	12	23.17	22.77	23.10	22.22	21.81	22.15				
	50	0	23.08	22.80	23.12	22.14	21.85	22.19				

Ľ	LTE Band 41_Uplink frequency band : 2496 to 2690 MHz										
				Conducted power (dBm)							
BW (MHz)	RB	RB		QPSK			16QAM	CH (High) 41515 23.28 23.05 22.10			
	Size	Offset	CH	CH	CH	CH	CH	CH			
(1411 12)	SIZE	DIZE OIISEL	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)			
			39725	40620	41515	39725	40620	41515			
	1	0	24.04	23.74	24.11	23.14	23.01	23.28			
15	1	74	23.84	23.71	23.91	23.02	22.90	23.05			
13	36	19	22.96	22.74	23.10	21.98	21.74	22.10			
	75	0	22.96	22.74	23.13	22.00	21.70	22.07			

Ľ	LTE Band 41_Uplink frequency band : 2496 to 2690 MHz											
			Conducted power (dBm)									
BW	RB	RB		QPSK			16QAM					
(MHz)	Size	Offset	CH	CH	CH	CH	CH	CH				
	Size	Oliset	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)				
			39750	40620	41490	39750	40620	41490				
	1	0	24.00	23.72	24.21	23.27	23.02	23.45				
20	1	99	24.03	23.78	23.80	23.15	22.97	23.06				
20	50	25	23.07	22.81	23.12	22.04	21.76	22.17				
	100	0	23.04	22.73	23.08	21.94	21.74	22.14				

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Ľ	LTE Band 66_Uplink frequency band : 1709 to 1780 MHz										
				Cor	iducted p	ower (d	Bm)				
BW	RB	RB		QPSK			16QAM				
(MHz)	Size	Offset	CH	CH	CH	CH	CH	CH			
(1411 12)	OIZE	OIZE OIISEL	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)			
			1E+05	1E+05	1E+05	1E+05	1E+05	1E+05			
	1	0	23.58	23.75	23.10	22.72	23.10	22.52			
1.4	1	5	23.66	23.83	23.08	22.99	23.16	22.40			
1.4	3	2	23.68	23.82	23.16	22.75	23.05	22.38			
	6	0	22.75	23.00	22.28	21.86	22.08	21.37			

L	LTE Band 66_Uplink frequency band : 1709 to 1780 MHz										
				Cor	iducted p	ower (d	Bm)	CH (High) 1E+05 22.53 22.52 21.47 21.45			
BW	RB	RB		QPSK			16QAM	CH (High) 1E+05 22.53 22.52 21.47			
(MHz)	Size	Offset	CH	CH	CH	CH	CH	CH			
(1711 12)	Size	Oliset	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)			
			1E+05	1E+05	1E+05	1E+05	1E+05	1E+05			
	1	0	23.47	23.76	23.26	22.79	23.15	22.53			
3	1	14	23.70	23.90	23.21	23.02	23.29	22.52			
3	8	4	22.84	23.08	22.37	21.92	22.11	21.47			
	15	0	22.74	23.04	22.29	21.89	21.98	21.45			

Ľ	LTE Band 66_Uplink frequency band : 1709 to 1780 MHz											
				Cor	nducted p	ower (d	Bm)					
BW	RB	RB		QPSK			16QAM					
(MHz)	Size	Offset	CH	CH	CH	CH	CH	CH				
(1011 12)	Size	Oliset	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)				
			1E+05	1E+05	1E+05	1E+05	1E+05	1E+05				
	1	0	23.40	23.64	23.20	22.64	22.95	22.39				
5	1	24	23.79	23.94	23.26	23.16	23.32	22.61				
3	12	6	22.81	23.03	22.42	21.83	22.10	21.43				
	25	0	22.71	22.99	22.33	21.82	22.07	21.38				

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Ľ	LTE Band 66_Uplink frequency band : 1709 to 1780 MHz										
				Cor	iducted p	ower (d	Bm)				
BW	RB	RB		QPSK			16QAM	CH (High) 1E+05 22.67 22.67 21.82			
(MHz)	Size	Offset	CH	CH	CH	CH	CH	_			
(1411 12)	OIZE	Size Oliset	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)			
			1E+05	1E+05	1E+05	1E+05	1E+05	1E+05			
	1	0	23.39	23.48	23.35	22.68	22.79	22.67			
10	1	49	23.70	24.03	23.31	23.04	23.37	22.67			
10	25	12	22.77	23.02	22.64	21.86	22.07	21.82			
	50	0	22.54	22.96	22.59	21.77	22.02	21.77			

Ľ	LTE Band 66_Uplink frequency band : 1709 to 1780 MHz											
				Conducted power (dBm)								
BW	RB	RB		QPSK		16QAM						
(MHz)	Size	Offset	CH	CH	CH	CH	CH	CH				
(1711 12)	SIZE	Oliset	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)				
			1E+05	1E+05	1E+05	1E+05	1E+05	1E+05				
	1	0	23.45	23.42	23.64	22.68	22.83	22.87				
15	1	74	23.41	23.72	23.30	22.76	22.96	22.67				
13	36	19	22.73	23.02	22.53	21.78	22.07	21.59				
	75	0	22.57	22.98	22.47	21.62	22.03	21.51				

Ľ	LTE Band 66_Uplink frequency band : 1709 to 1780 MHz											
				Conducted power (dBm)								
BW RB	RB	RB		QPSK			16QAM					
(MHz)	Size	Offset	CH	CH	CH	CH	CH	CH				
(IVITIZ) SIZE OIIS		Oliset	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)				
			1E+05	1E+05	1E+05	1E+05	1E+05	1E+05				
	1	0	23.60	23.48	23.55	23.05	22.83	23.06				
20	1	99	23.58	23.73	23.21	22.89	22.99	22.56				
20	50	25	23.10	22.99	22.69	22.08	21.99	21.74				
	100	0	23.06	23.01	22.42	22.05	22.00	21.50				

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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	βς	β_d	β _d (SF)	β_c/β_d	β _{HS} (<i>Note1,</i> <i>Note 2</i>)	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

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

Mode	Sub	Avg	. Power (di Channel	Bm)	Power Class 3 Limitation (dBm)	Comments	
	test 9262 9400		9400	9538	Lillitation (ubili)		
	1	20.9	21.26	20.95	20.3dBm – 25.7dBm	Pass	
HSDPA II	2	21.41	21.74	21.09	20.3dBm – 25.7dBm	Pass	
3 2		20.7	21.22	20.44	19.8dBm – 25.7dBm	Pass	
	4	20.68	21.19	20.41	19.8dBm – 25.7dBm	Pass	

Mode	Sub test	Avg	ı. Power (di Channel	Bm)	Power Class 3 Limitation (dBm)	Comments
	เธรเ	1312	1413	1513	Lillitation (ubili)	
	1	20.66	20.53	20.67	20.3dBm – 25.7dBm	Pass
HSDPA IV	2	21.17	21.01	20.72	20.3dBm – 25.7dBm	Pass
IIODFAIV	3	20.3	20.31	20.13	19.8dBm – 25.7dBm	Pass
	4	20.27	20.29	20.11	19.8dBm – 25.7dBm	Pass

Mode	Sub test	Avg	. Power (d Channel	Bm)	Power Class 3 Limitation (dBm)	Comments
tes		4132	4183	4233	Ellilitation (abili)	
	1 22.98		22.73	22.42	20.3dBm – 25.7dBm	Pass
HSDPA V	2	22.85	22.91	22.35	20.3dBm – 25.7dBm	Pass
113DPA V 3		22.4	22.29	21.9	19.8dBm – 25.7dBm	Pass
	4	22.45	22.26	21.92	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	βο	βa	β _d (SF)	βс/βd	βнѕ	βес	βed	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	209/22 5	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	β_{ed} 1: 47/15 β_{ed} 2: 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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Results:

Mode	Sub test	Avg	. Power (d Channel	Bm)	Power Class 3 Limitation (dBm)	Comments
	lesi	9262	9400	9538	Lillitation (ubili)	
1		21.05	21.55	20.91	18.8dBm – 25.7dBm	Pass
	2	20.11	20.35	20.26	16.8dBm – 25.7dBm	Pass
HSUPA II	3	21.02	21.54	20.9	17.8dBm – 25.7dBm	Pass
	4	20.56	20.87	20.68	16.8dBm – 25.7dBm	Pass
	5	21.04	21.6	20.8	18.8dBm – 25.7dBm	Pass

Mode	Sub test	Avg	. Power (di Channel	Bm)	Power Class 3 Limitation (dBm)	Comments
	lest	1312	1413	1513	Lillitation (ubili)	
	1	20.71	20.83	20.98	20.3dBm – 25.7dBm	Pass
	2	19.93	19.81	20.03	20.3dBm – 25.7dBm	Pass
HSDPA IV	3	20.58	20.73	20.72	19.8dBm – 25.7dBm	Pass
	4	20.47	20.27	20.48	19.8dBm – 25.7dBm	Pass
	5	20.97	20.68	20.75	19.8dBm – 25.7dBm	Pass

Mode	Sub test	Avg. Power (dBm) Channel			Power Class 3 Limitation (dBm)	Comments
	lest	4132	4183	4233		
	1	22.67	22.84	22.32	18.8dBm – 25.7dBm	Pass
	2	22.3	22.16	21.96	16.8dBm – 25.7dBm	Pass
HSUPA V	3	22.69	22.77	22.27	17.8dBm – 25.7dBm	Pass
	4	22.89	22.74	22.44	16.8dBm – 25.7dBm	Pass
	5	22.78	22.89	22.34	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(c) 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.

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

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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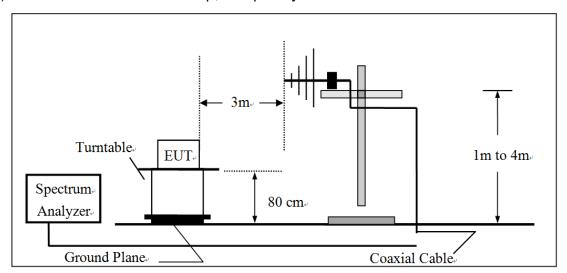
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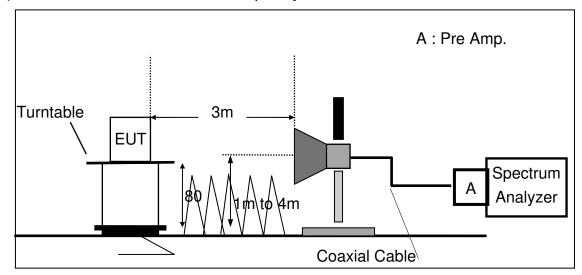
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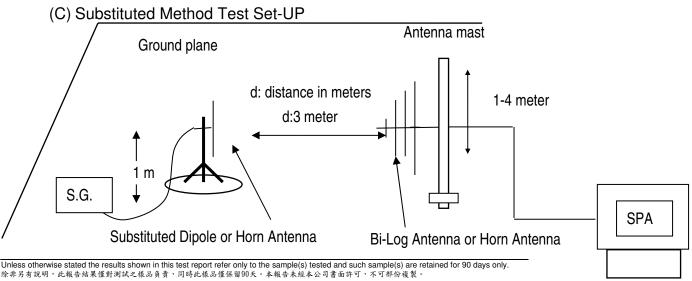
7.2. Test SET-UP

(A) Radiated Power Test Set-Up, Frequency Below1000MHz



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





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7.3. Measurement Procedure

- 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 calcu-
- 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
- 6. ERP = S.G. output (dBm) + Antenna Gain (dBd) Cable Loss (dB)
- 7. EIRP = S.G. output (dBm) + Antenna Gain (dBi) 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 > =3xRBW.
 - (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 ≈ 1~5% of the span, not to exceed 1 MHz

Set $VBW = 3 \times RBW$;

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 sweet time = $601*10^{-3}$ = 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*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

.4. Measurement Ed	EIRP MEASUREM	IENT EQUIPME	NT List 966 Ch	namber	
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

Part24									
	EUT			N	/leasurem	ent			
Operation	Fundamental	СН	Antenna	S.G.	Antenna	Cable	EIRP	Limit	
Band	Frequency	СП	Pol.	Output	Gain	Loss	EINF	LIIIII	
	MHz		V/H	dBm	dBi	dB	dBm	dBm	
	1852.4	9262	V	19.47	9.58	-6.86	22.19	33.01	
	1002.4	3202	Н	21.52	9.58	-6.86	24.24	33.01	
WCDMA	1880.0	9400	V	21.27	9.70	-6.91	24.06	33.01	
Band II	1000.0	0 100	Н	21.12	9.69	-6.91	23.90	33.01	
	1907.6	9538	V	18.07	9.81	-6.96	20.92	33.01	
			Н	19.37	9.81	-6.96	22.22	33.01	
Remark:	The RBW,VE	BW of			RBW= 5N	lHz , V	BW= 81	ИHz	
			Part24						
EUT Measurement									
Operation	Fundamental	СН	Antenna	S.G.	Antenna	Cable	EIRP	Limit	
Band	Frequency	011	Pol.	Output	Gain	Loss			
	MHz		V/H	dBm	dBi	dB	dBm	dBm	
	1852.4	9262	V	19.49	9.58	-6.86	22.21	33.01	
	1002.4	3202	Н	21.46	9.58	-6.86	24.18	33.01	
HSDPA	1880.0	9400	V	21.28	9.69	-6.91	24.06	33.01	
Band II	1000.0	0 100	Н	21.03	9.70	-6.91	23.82	33.01	
	1907.6	9538	V	17.91	9.81	-6.96	20.76	33.01	
			Н	19.31	9.81	-6.96	22.16	33.01	
Remark :	The RBW,VE	BW of			RBW= 5N	lHz , V	BW= 81	ИHz	
			Part24						
	EUT	ı		<u> </u>	<i>l</i> leasurem	ent			
Operation	Fundamental	СН	Antenna	S.G.	Antenna	Cable	EIRP	Limit	
Band	Frequency	0	Pol.	Output	Gain	Loss			
	MHz		V/H	dBm	dBi	dB	dBm	dBm	
	1852.4	9262	V	20.36	9.58	-6.86	23.08	33.01	
	1032.4	3202	Н	21.30	9.58	-6.86	24.02	33.01	
HSUPA	1880.0	9400	V	21.10	9.70	-6.91	23.89	33.01	
Band II	1000.0	3 -1 00	Н	20.98	9.70	-6.91	23.77	33.01	
	1907.6	9538	V	17.77	9.81	-6.96	20.62	33.01	
			Н	19.17	9.81	-6.96	22.02	33.01	
Remark:	The RBW,VE	BW of	SPA for fre	quency	RBW= 5N	IHz , V	BW= 81	ИHz	

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			Part	27							
	EUT				Measurem	nent					
Operation	Fundamental		Antenna	S.G.	Antenna	Cable					
Band	Frequency	СН	Pol.	Output	Gain	Loss	EIRP	Limit			
	MHz		V/H	dBm	dBi	dB	dBm	dBm			
	1710.4	1010	V	20.69	8.99	-6.58	23.10	30.00			
	1712.4	1312	Н	22.23	8.99	-6.58	24.64	30.00			
WCDMA	1700.6	1410	V	19.46	9.08	-6.63	21.91	30.00			
Band IV	1732.6	1413	Н	21.64	9.08	-6.63	24.09	30.00			
	1752.6	1513	V	20.14	9.16	-6.66	22.64	30.00			
	1752.0	1513	Н	21.53	9.16	-6.66	24.03	30.00			
Remark:	The RBV	V,VBW	of SPA for f	requency	RBW= 5M	Hz , VBV	V= 8MH	Z			
			Part	27							
	EUT				Measuren	nent					
Operation	Fundamental	СН	Antenna	S.G.	Antenna	Cable	EIRP	Limit			
Band	Frequency		Pol.	Output	Gain	Loss					
	MHz		V/H	dBm	dBi	dB	dBm	dBm			
	1712.4	1312	V	20.65	8.99	-6.58	23.06	30.00			
	17 12.1	1012	Н	22.18	8.99	-6.58	24.59	30.00			
HSDPA	1732.6	1413	V	19.51	9.08	-6.63	21.96	30.00			
Band IV			Н	21.82	9.08	-6.63	24.27	30.00			
	1752.6	1513	V	20.12	9.16	-6.66	22.62	30.00			
			Н	21.73	9.16	-6.67	24.22	30.00			
Remark:	The RBV	V,VBW	of SPA for f		RBW= 5M	Hz , VBV	V= 8MH:	Z			
			Part								
	EUT	1			Measuren						
Operation	Fundamental	СН	Antenna	S.G.	Antenna	Cable	EIRP	Limit			
Band	Frequency		Pol.	Output	Gain	Loss					
	MHz		V/H	dBm	dBi	dB	dBm	dBm			
	1712.4	1312	V	20.79	8.99	-6.58	23.20	30.00			
LIOLIDA			Н	22.16	8.99	-6.58	24.57	30.00			
HSUPA	1732.6	1413	V	19.39	9.08	-6.63	21.84	30.00			
Band IV			Н	21.82	9.08	-6.63	24.27	30.00			
	1752.6	1513	V	20.15	9.16	-6.66	22.65	30.00			
			H	21.63	9.16	-6.66	24.13	30.00			
Remark:	The RBV	v,vBW	Remark: The RBW,VBW of SPA for frequency RBW= 5MHz, VBW= 8MHz								

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			Part22					
	EUT			N	/leasurem	ent		
Operation	Fundamental	СН	Antenna	S.G.	Antenna	Cable	ERP	Limit
Band	Frequency	U	Pol.	Output	Gain	Loss		
	MHz		V/H	dBm	dBd	dB	dBm	dBm
	826.4	4132	V	19.45	5.13	-4.18	20.40	38.45
			Н	15.76	5.13	-4.18	16.71	38.45
WCDMA	836.6	4183	V	19.16	5.10	-4.23	20.03	38.45
Band V	000.0	1100	Н	15.04	5.10	-4.22	15.92	38.45
	846.6	4233	V	17.50	5.06	-4.26	18.30	38.45
			Н	13.12	5.06	-4.26	13.92	38.45
Remark: The RBW, VBW of SPA for frequency RBW=300 KHz, VBW=1MHz								
			Part22					
	EUT			N	<i>l</i> leasurem	ent		
Operation	Fundamental	СН	Antenna	S.G.	Antenna	Cable	ERP	Limit
Band	Frequency	CII	Pol.	Output	Gain	Loss	Enr	Lillin
	MHz		V/H	dBm	dBd	dB	dBm	dBm
	826.4	4132	V	19.43	5.13	-4.18	20.38	38.45
			Н	15.81	5.13	-4.18	16.76	38.45
HSDPA	836.6	4183	٧	19.08	5.10	-4.23	19.95	38.45
Band V	000.0	7100	H	15.02	5.10	-4.23	15.89	38.45
	846.6	4233	V	17.59	5.06	-4.26	18.39	38.45
			Н	13.19	5.06	-4.26	13.99	38.45
Remark:	The RBW,VBW of	SPA fo			KHz, VBW	=1MHz		
			Part22					
	EUT			N	<i>l</i> leasurem	ent		
Operation	Fundamental	СН	Antenna	S.G.	Antenna	Cable	ERP	Limit
Band	Frequency	011	Pol.	Output	Gain	Loss		Lillin
	MHz		V/H	dBm	dBd	dB	dBm	dBm
	826.4	4132	V	17.18	5.13	-4.18	18.13	38.45
			Н	15.70	5.13	-4.18	16.65	38.45
HSUPA	836.6	4183	V	18.97	5.10	-4.23	19.84	38.45
Band V	000.0	7100	Н	15.00	5.10	-4.22	15.88	38.45
	846.6	4233	V	17.49	5.06	-4.26	18.29	38.45
			Н	13.17	5.06	-4.26	13.97	38.45
Remark:								

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	EUT				Measurem	ont		
Operation	Fundamental		Antenna	S.G.	Antenna	Cable	l	
Operation		СН					EIRP	Limit
Band	Frequency		Pol.	Output	Gain	Loss	d Day	d D m
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE	1850.7	18607	V	9.79	9.57	-6.86	12.50	33.01
BAND 2			Н	24.11	9.57	-6.86	26.82	33.01
BW: 1.4M	1880.0	18900	V	8.65	9.69	-6.91	11.43	33.01
QPSK			Н	9.79	9.57	-6.86	12.50	33.01
RB: 1,0	1909.3	19193	V	1.06	9.82	-6.97	3.91	33.01
110. 1,0	1000.0	10100	Н	22.97	9.82	-6.97	25.82	33.01
LTE	1850.7	18607	V	10.93	9.57	-6.86	13.64	33.01
BAND 2	1000.7	10007	Н	24.03	9.58	-6.86	26.75	33.01
BW: 1.4M QPSK	1880.0	18900	V	7.95	9.70	-6.91	10.74	33.01
	1000.0	10900	Н	23.88	9.70	-6.91	26.67	33.01
RB: 1,5	1909.3	19193	V	1.23	9.82	-6.97	4.08	33.01
no. 1,5	1909.5	19193	Н	22.48	9.82	-6.97	25.33	33.01
LTE	1050.7	10607	V	11.08	9.58	-6.86	13.80	33.01
	1850.7	18607	Н	24.25	9.57	-6.86	26.96	33.01
BAND 2 BW: 1.4M	1000 0	10000	V	8.22	9.70	-6.91	11.01	33.01
	1880.0	18900	Н	24.97	9.69	-6.91	27.75	33.01
16QAM	1000.0	10102	V	1.71	9.82	-6.97	4.56	33.01
RB: 1,0	1909.3	19193	Н	22.89	9.82	-6.97	25.74	33.01
LTE	1050.7	10007	V	10.97	9.57	-6.86	13.68	33.01
LTE	1850.7	18607	Н	24.15	9.58	-6.86	26.87	33.01
BAND 2 BW: 1.4M 16QAM RB: 1,5	1000 0	10000	V	9.54	9.69	-6.91	12.32	33.01
	1880.0	18900	Н	25.05	9.70	-6.91	27.84	33.01
	10000	10100	V	1.75	9.82	-6.97	4.60	33.01
	1909.3	19193	Н	22.59	9.82	-6.97	25.44	33.01
Remark:	(1)The R	BW,VBV	V of SPA for	frequenc	y RBW= 8N	ИHz , VE	3W= 8MI	Hz

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	EUT				Measurem				
Operation	Fundamental	СН	Antenna	S.G.	Antenna	Cable	EIRP	Limit	
Band	Frequency	011	Pol.	Output	Gain	Loss	- 11111		
	MHz		V/H	dBm	dBi	dB	dBm	dBm	
LTE	1851.5	18615	V	9.32	9.57	-6.86	12.03	33.01	
BAND 2	1031.3	10013	Н	22.66	9.57	-6.86	25.37	33.01	
BW: 3M	1880.0	18900	V	8.42	9.69	-6.91	11.20	33.01	
QPSK	1000.0	10900	Н	23.80	9.69	-6.91	26.58	33.01	
RB: 1,0	1908.5	19185	V	1.06	9.81	-6.96	3.91	33.01	
nd. 1,0	1906.5	19165	Н	22.87	9.81	-6.96	25.72	33.01	
LTE	1851.5	10615	V	10.07	9.58	-6.86	12.79	33.01	
BAND 2	1001.0	18615	Н	23.63	9.58	-6.86	26.35	33.01	
BW: 3M QPSK	1000 0	10000	V	7.77	9.70	-6.91	10.56	33.01	
	1880.0	18900	Н	23.59	9.70	-6.91	26.38	33.01	
	1908.5	19185	V	1.13	9.82	-6.97	3.98	33.01	
RB: 1,14	1900.5	19105	Н	22.11	9.82	-6.97	24.96	33.01	
LTE	1851.5	18615	V	10.83	9.57	-6.86	13.54	33.01	
BAND 2	1001.0	10013	Н	23.72	9.58	-6.86	26.44	33.01	
BW: 3M	1880.0	18900	V	9.35	9.69	-6.91	12.13	33.01	
16QAM	1000.0	10900	Н	23.75	9.70	-6.91	26.54	33.01	
RB: 1,0	1908.5	10105	V	0.33	9.81	-6.96	3.18	33.01	
nd. 1,0	1906.5	19185	Н	22.18	9.82	-6.97	25.03	33.01	
ITE	1051 5	10615	V	11.23	9.58	-6.86	13.95	33.01	
LTE BAND 2	1851.5	18615	Н	23.95	9.57	-6.85	26.67	33.01	
	1000 0	10000	V	8.92	9.70	-6.92	11.70	33.01	
BW: 3M 16QAM -	1880.0	18900	Н	24.77	9.69	-6.91	27.55	33.01	
	1000 5	10105	V	1.20	9.82	-6.97	4.05	33.01	
RB: 1,14	1908.5	19185	Н	23.36	9.81	-6.96	26.21	33.01	
Remark: (1)The RBW,VBW of SPA for frequency RBW= 8MHz, VBW= 8MHz									

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	EUT			I	Measurem				
Operation	Fundamental	СН	Antenna	S.G.	Antenna	Cable	EIRP	Limit	
Band	Frequency	O	Pol.	Output	Gain	Loss			
	MHz		V/H	dBm	dBi	dB	dBm	dBm	
LTE	1852.5	18625	V	21.13	9.57	-6.86	23.84	33.01	
BAND 2	1032.3	10023	Н	24.75	9.57	-6.86	27.46	33.01	
BW: 5M	1880.0	18900	V	21.44	9.69	-6.91	24.22	33.01	
QPSK	1000.0	10900	Н	24.07	9.69	-6.91	26.85	33.01	
	1007.5	10175	V	21.14	9.80	-6.96	23.98	33.01	
RB: 1,0	1907.5	19175	Н	23.74	9.80	-6.96	26.58	33.01	
LTE	1050 5	10605	V	21.25	9.59	-6.86	23.98	33.01	
	1852.5	18625	Н	24.09	9.59	-6.86	26.82	33.01	
BAND 2	1000.0	10000	V	21.13	9.71	-6.92	23.92	33.01	
BW: 5M	1880.0	18900	Н	23.80	9.71	-6.92	26.59	33.01	
QPSK	1007.5	10175	V	20.29	9.82	-6.97	23.14	33.01	
RB: 1,24	1907.5	19175	Н	23.10	9.82	-6.97	25.95	33.01	
LTE	1050 F	10005	V	21.55	9.57	-6.86	24.26	33.01	
LTE	1852.5	18625	Н	25.14	9.57	-6.86	27.85	33.01	
BAND 2	1000.0	10000	V	22.52	9.69	-6.91	25.30	33.01	
BW: 5M	1880.0	18900	Н	25.06	9.69	-6.91	27.84	33.01	
16QAM	1007.5	10175	V	21.43	9.80	-6.96	24.27	33.01	
RB: 1,0	1907.5	19175	Н	24.06	9.80	-6.96	26.90	33.01	
LTE	1050.5	10005	V	22.41	9.59	-6.86	25.14	33.01	
LTE	1852.5	18625	Н	25.12	9.59	-6.86	27.85	33.01	
BAND 2	1000.0	10000	V	22.24	9.70	-6.92	25.02	33.01	
BW: 5M	1880.0	18900	Н	25.12	9.70	-6.92	27.90	33.01	
16QAM	100= -	10175	V	20.29	9.82	-6.97	23.14	33.01	
RB: 1,24	1907.5	19175	Н	23.16	9.82	-6.97	26.01	33.01	
Remark: (1)The RBW,VBW of SPA for frequency RBW= 8MHz, VBW= 8MHz									

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	EUT		<u> </u>		Measurem	ont				
Operation	Fundamental		Antenna	S.G.	Antenna	Cable				
Band	Frequency	СН	Pol.	Output	Gain	Loss	EIRP	Limit		
Dana	MHz		V/H	dBm	dBi	dB	dBm	dBm		
	IVITIZ		V	11.86	9.57	-6.86	14.57	33.01		
LTE	1855.0	18650	H	25.01	9.57	-6.86	27.72	33.01		
BAND 2			V	21.79	9.68	-6.90	24.57	33.01		
BW: 10M	1880.0	18900	H	24.66	9.68	-6.90	27.44	33.01		
QPSK			V	20.95	9.78	-6.95	23.78	33.01		
RB: 1,0	1905.0	19150	H	24.07	9.78	-6.95	26.90	33.01		
			V	21.23	9.61	-6.87	23.97	33.01		
LTE	1855.0	18650	H	24.63	9.61	-6.87	27.37	33.01		
BAND 2			V	21.06	9.71	-6.92	23.85	33.01		
BW: 10M QPSK	1880.0	18900	H	24.13	9.71	-6.92	26.93	33.01		
			V	20.07	9.82	-6.97	22.92	33.01		
RB: 1,49	1905.0	19150	H	23.09	9.82	-6.97	25.94	33.01		
			V	21.41	9.57	-6.86	24.12	33.01		
LTE	1855.0	18650	H	25.39	9.57	-6.86	28.10	33.01		
BAND 2			V	22.26	9.68	-6.90	25.04	33.01		
BW: 10M	1880.0	18900	H	25.05	9.68	-6.90	27.83	33.01		
16QAM			V	21.12	9.78	-6.95	23.95	33.01		
RB: 1,0	1905.0	19150	H	24.22	9.78	-6.95	27.05	33.01		
			V	22.42	9.78	-6.87	25.16	33.01		
LTE	1855.0	18650	-							
BAND 2			H V	25.74 22.27	9.61	-6.87	28.48	33.01		
BW: 10M 16QAM - RB: 1,49	1880.0	18900	H		9.72	-6.92	25.07			
			V	25.33	9.71 9.82	-6.92	28.12	33.01		
	1905.0	19150	-	20.16		-6.97	23.01	33.01		
Domosili	H 23.42 9.82 -6.97 26.27 33.01									
Remark: (1)The RBW,VBW of SPA for frequency RBW= 8MHz, VBW= 8MHz										

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			1					
	EUT				Measurem			
Operation	Fundamental	СН	Antenna	S.G.	Antenna	Cable	EIRP	Limit
Band	Frequency	011	Pol.	Output	Gain	Loss	- 11111	
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE	1857.5	18675	V	21.26	9.58	-6.86	23.98	33.01
BAND 2	1037.3	10073	Н	24.99	9.57	-6.86	27.70	33.01
BW: 15M	1880.0	18900	V	22.33	9.67	-6.90	25.10	33.01
QPSK	1000.0	10900	Н	24.74	9.67	-6.90	27.51	33.01
	1002.5	19125	V	19.85	9.76	-6.94	22.67	33.01
RB: 1,0	1902.5	19123	Н	23.34	9.76	-6.94	26.16	33.01
LTE	1057.5	10675	V	21.45	9.57	-6.86	24.16	33.01
BAND 2	1857.5	18675	Н	24.66	9.63	-6.88	27.41	33.01
	1000 0	10000	V	21.48	9.72	-6.92	24.28	33.01
BW: 15M QPSK	1880.0	18900	Н	24.02	9.72	-6.92	26.82	33.01
	1902.5	19125	V	20.35	9.82	-6.97	23.20	33.01
RB: 1,74	1902.5	19123	Н	23.38	9.82	-6.97	26.23	33.01
LTE	1057.5	10675	V	21.71	9.57	-6.86	24.42	33.01
BAND 2	1857.5	18675	Н	25.35	9.57	-6.86	28.06	33.01
	1000 0	19000	V	22.47	9.67	-6.90	25.24	33.01
BW: 15M	1880.0	18900	Н	24.79	9.67	-6.90	27.56	33.01
16QAM	1000 5	10105	V	19.96	9.76	-6.94	22.78	33.01
RB: 1,0	1902.5	19125	Н	23.40	9.76	-6.94	26.22	33.01
LTE	1057.5	10075	V	22.53	9.63	-6.88	25.28	33.01
LTE	1857.5	18675	Н	25.87	9.63	-6.88	28.62	33.01
BAND 2	1000 0	10000	V	22.44	9.73	-6.93	25.24	33.01
BW: 15M 16QAM -	1880.0	18900	Н	25.08	9.73	-6.93	27.88	33.01
	1000 5	10105	V	20.49	9.82	-6.97	23.34	33.01
RB: 1,74	1902.5	19125	Н	23.42	9.82	-6.97	26.27	33.01
Remark:	(1)The R	BW,VBV	V of SPA for	frequenc	y RBW= 8N	ЛHz , VE	BW= 8MI	Hz

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	EUT				Measurem	ent		
Operation	Fundamental	СН	Antenna	S.G.	Antenna	Cable	EIRP	Limit
Band	Frequency	011	Pol.	Output	Gain	Loss	- 11111	
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE	1860.0	18700	V	21.55	9.58	-6.86	24.27	33.01
BAND 2	1000.0	10700	Н	24.79	9.57	-6.86	27.50	33.01
BW: 20M	1880.0	18900	V	22.09	9.66	-6.89	24.86	33.01
QPSK	1000.0	10900	Н	24.56	9.66	-6.90	27.32	33.01
RB: 1,0	1900.0	19100	V	20.84	9.74	-6.93	23.65	33.01
110. 1,0	1900.0	19100	Н	23.98	9.74	-6.93	26.79	33.01
LTE	1860.0	18700	V	22.22	9.65	-6.89	24.98	33.01
BAND 2	1000.0	10700	Н	24.67	9.65	-6.89	27.43	33.01
BW: 20M	1880.0	18900	V	20.86	9.73	-6.93	23.66	33.01
QPSK	1000.0	10900	Н	23.74	9.73	-6.93	26.54	33.01
RB: 1,99	1900.0	19100	V	20.48	9.82	-6.97	23.33	33.01
וט. ו,פפ	1900.0	19100	Н	23.43	9.82	-6.97	26.28	33.01
LTE	1860.0	18700	V	21.57	9.58	-6.86	24.29	33.01
BAND 2	1000.0	10700	Н	25.27	9.58	-6.86	27.99	33.01
BW: 20M	1880.0	18900	V	22.25	9.66	-6.89	25.02	33.01
16QAM	1000.0	10900	Н	24.83	9.66	-6.89	27.60	33.01
RB: 1,0	1900.0	19100	V	21.39	9.74	-6.93	24.20	33.01
110. 1,0	1900.0	19100	Н	24.62	9.74	-6.93	27.43	33.01
LTE	1860.0	18700	V	22.42	9.65	-6.89	25.18	33.01
BAND 2	1000.0	10700	Н	25.25	9.65	-6.89	28.01	33.01
	1880.0	18900	V	21.87	9.73	-6.93	24.67	33.01
BW: 15M 16QAM - RB: 1,99	1000.0	10300	Н	24.78	9.74	-6.93	27.59	33.01
	1900.0	19100	V	20.45	9.82	-6.97	23.30	33.01
	1300.0	13100	Н	23.47	9.82	-6.97	26.32	33.01
Remark:	(1)The R	BW,VBV	V of SPA for	frequenc	y RBW= 8N	ЛHz , VE	3W= 8MI	-lz

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	EUT				Measurem	nent					
Operation	Fundamental		Antenna	S.G.	Antenna	Cable	FIDD	,			
Band	Frequency	СН	Pol.	Output	Gain	Loss	EIRP	Limit			
	MHz		V/H	dBm	dBi	dB	dBm	dBm			
LTE	1710.7	10057	V	21.32	8.98	-6.58	23.72	30.00			
BAND 4	1710.7	19957	Н	23.56	8.98	-6.58	25.96	30.00			
BW: 1.4M	1732.5	20175	V	18.29	9.07	-6.62	20.74	30.00			
QPSK	1732.3	20175	Н	21.50	9.07	-6.62	23.95	30.00			
RB: 1,0	1754.3	20393	V	21.89	9.16	-6.67	24.38	30.00			
110. 1,0	1754.5	20090	Н	23.17	9.17	-6.67	25.67	30.00			
LTE	1710.7	19957	V	21.69	8.99	-6.58	24.10	30.00			
BAND 4	1710.7	19931	Н	23.88	8.99	-6.58	26.29	30.00			
BW: 1.4M	1732.5	20175	V	18.10	9.08	-6.63	20.55	30.00			
QPSK - RB: 1,5	1702.0	20173	Н	21.24	9.08	-6.63	23.69	30.00			
	1754.3	20393	V	22.02	9.17	-6.67	24.52	30.00			
110. 1,0	1754.5	20090	Н	23.03	9.17	-6.67	25.53	30.00			
LTE	1710.7	19957	V	21.34	8.98	-6.58	23.74	30.00			
BAND 4	1710.7	19931	Н	23.58	8.98	-6.58	25.98	30.00			
BW: 1.4M	1732.5	20175	V	18.54	9.08	-6.62	21.00	30.00			
16QAM	1732.3	20175	Н	21.84	9.07	-6.62	24.29	30.00			
RB: 1,0	1754.3	20393	V	22.11	9.17	-6.67	24.61	30.00			
110. 1,0	1734.3	20090	Н	23.27	9.17	-6.67	25.77	30.00			
LTE	1710.7	19957	V	21.71	8.99	-6.58	24.12	30.00			
BAND 4	1710.7	19931	Н	23.87	8.99	-6.58	26.28	30.00			
	1722 5	20175	V	18.39	9.08	-6.63	20.84	30.00			
BW: 1.4M 1732.5 16QAM 1754.3	1702.0	20173	Н	21.64	9.08	-6.63	24.09	30.00			
	175/13	20393	V	21.97	9.17	-6.67	24.47	30.00			
	20030	Н	23.08	9.17	-6.67	25.58	30.00				
Remark:	(1)The RE										

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	EUT		l		Measuren	ant			
Operation	Fundamental		Antenna	S.G.	Antenna	Cable			
Band	Frequency	CH	Pol.	Output	Gain	Loss	EIRP	Limit	
Dania	MHz		V/H	dBm	dBi	dB	dBm	dBm	
			V	21.15	8.98	-6.58	23.55	30.00	
LTE	1711.5	19965	H	23.26	8.98	-6.58	25.66	30.00	
BAND 4	1700 5	00475	V	19.42	9.07	-6.62	21.87	30.00	
BW: 3M	1732.5	20175	Н	21.63	9.07	-6.62	24.08	30.00	
QPSK -	1750 F	00005	V	20.98	9.16	-6.66	23.48	30.00	
RB: 1,0	1753.5	20385	Н	23.09	9.16	-6.66	25.59	30.00	
ıtc	1711 5	10065	V	21.53	8.99	-6.59	23.93	30.00	
LTE	1711.5	19965	Н	24.14	9.00	-6.59	26.55	30.00	
BAND 4	1732.5	20175	V	18.48	9.08	-6.63	20.93	30.00	
BW: 3M QPSK RB: 1,14	1732.3	20175	Н	21.44	9.08	-6.63	23.89	30.00	
	1753.5	20175	V	20.96	9.16	-6.67	23.45	30.00	
nd. 1,14	1755.5		Н	22.90	9.17	-6.67	25.40	30.00	
LTE	1711.5	19965	V	21.07	8.98	-6.58	23.47	30.00	
BAND 4	1711.5	19903	Н	23.46	8.98	-6.58	25.86	30.00	
BW: 3M	1732.5	20175	V	18.95	9.07	-6.62	21.40	30.00	
16QAM	1732.3	20175	Н	21.90	9.07	-6.62	24.35	30.00	
RB: 1,0	1753.5	20385	V	21.60	9.16	-6.66	24.10	30.00	
110. 1,0	1730.3	20303	Н	23.72	9.16	-6.66	26.22	30.00	
LTE	1711.5	19965	V	21.88	8.99	-6.59	24.28	30.00	
	1711.5	19903	Н	24.34	8.99	-6.59	26.74	30.00	
16QAM RB: 1,14 1753.5 20	1739 5	20175	V	18.93	9.08	-6.63	21.38	30.00	
	1702.0	20173	Н	21.86	9.08	-6.63	24.31	30.00	
	1753 5	20385	V	21.18	9.17	-6.67	23.68	30.00	
	20000	Н	23.23	9.17	-6.67	25.73	30.00		
Remark: (1)The RBW,VBW of SPA for frequency RBW= 8MHz, VBW= 8MHz									

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	FUT		ı		Massuran			
a I	EUT	ı			Measurem	1	I	
Operation	Fundamental _	СН	Antenna	S.G.	Antenna	Cable	EIRP	Limit
Band	Frequency		Pol.	Output	Gain	Loss		
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE	1712.5	19975	V	22.18	8.98	-6.58	24.58	30.00
BAND 4	17 12.0	10070	Н	24.34	8.98	-6.58	26.74	30.00
BW: 5M	1732.5	20175	V	18.16	9.07	-6.62	20.61	30.00
QPSK -	1702.0	20173	Н	21.30	9.07	-6.62	23.75	30.00
RB: 1,0	1752.5	20375	V	21.31	9.15	-6.66	23.80	30.00
110. 1,0	1732.3	20073	Н	23.24	9.15	-6.66	25.73	30.00
LTE	1712.5	19975	V	22.27	9.00	-6.59	24.68	30.00
BAND 4	1712.5	19975	Н	24.15	9.00	-6.59	26.56	30.00
BW: 5M	1732.5	20175	V	18.29	9.08	-6.63	20.74	30.00
QPSK - RB: 1,24	1732.3	20175	Н	21.30	9.08	-6.63	23.75	30.00
	1752.5	20175 -	V	21.54	9.17	-6.67	24.04	30.00
nd. 1,24	1752.5		Н	22.84	9.17	-6.67	25.34	30.00
LTE	1710 5	19975	V	22.39	8.98	-6.58	24.79	30.00
BAND 4	1712.5	19975	Н	24.57	8.98	-6.58	26.97	30.00
	1720 5	20175	V	18.32	9.07	-6.62	20.77	30.00
BW: 5M	1732.5	20175	Н	21.61	9.07	-6.62	24.06	30.00
16QAM	1750 5	20275	V	22.25	9.15	-6.66	24.74	30.00
RB: 1,0	1752.5	20375	Н	24.10	9.15	-6.66	26.59	30.00
I TE	1710 5	10075	V	22.63	9.00	-6.59	25.04	30.00
LTE	1712.5	19975	Н	24.73	9.00	-6.59	27.14	30.00
BAND 4	1700 F	00175	V	18.63	9.09	-6.63	21.09	30.00
BW: 5M 16QAM – RB: 1,24	1732.5	20175	Н	21.71	9.09	-6.63	24.17	30.00
	1750 5	00075	V	22.02	9.17	-6.67	24.52	30.00
	1752.5	20375	Н	23.35	9.17	-6.67	25.85	30.00
Remark:	(1)The RE	BW,VBW	of SPA for fr	equency	RBW= 8MF	lz , VBW	/= 8MHz	

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	EUT				Measurem	ent			
Operation	Fundamental	OII	Antenna	S.G.	Antenna	Cable	FIDD	1 !!1	
Band	Frequency	СН	Pol.	Output	Gain	Loss	EIRP	Limit	
	MHz		V/H	dBm	dBi	dB	dBm	dBm	
LTE	1715.0	20000	V	20.92	8.99	-6.58	23.33	30.00	
BAND 4	1715.0	20000	Н	23.12	8.98	-6.58	25.52	30.00	
BW: 10M	1722.0	20175	V	19.27	9.06	-6.62	21.71	30.00	
QPSK	1732.0	20175	Н	21.72	9.06	-6.62	24.16	30.00	
RB: 1,0	1750.0	20350	V	21.22	9.13	-6.65	23.70	30.00	
nb. 1,0	1750.0	20330	Н	23.36	9.13	-6.65	25.84	30.00	
LTE	1715.0	20000	V	21.10	9.02	-6.60	23.52	30.00	
BAND 4	1715.0	20000	Н	23.61	9.02	-6.60	26.03	30.00	
BW: 10M	1732.0	20175	V	18.78	9.09	-6.63	21.24	30.00	
QPSK -	1732.0	20175	Н	21.58	9.09	-6.63	24.04	30.00	
RB: 1,49	1750.0	20250	V	21.49	9.17	-6.67	23.99	30.00	
nd. 1,49	1750.0	20350	Н	22.78	9.17	-6.67	25.28	30.00	
LTE	1715.0	20000	V	21.35	8.99	-6.58	23.76	30.00	
BAND 4	1715.0	20000	Н	23.45	8.98	-6.58	25.85	30.00	
BW: 10M	1732.0	20175	V	18.36	9.06	-6.62	20.80	30.00	
16QAM	1732.0	20175	Н	21.83	9.06	-6.62	24.27	30.00	
RB: 1,0	1750.0	20350	V	21.91	9.13	-6.65	24.39	30.00	
110. 1,0	1730.0	20000	Н	24.20	9.13	-6.65	26.68	30.00	
LTE	1715.0	20000	V	21.12	9.02	-6.60	23.54	30.00	
	17 15.0	20000	Н	23.61	9.02	-6.60	26.03	30.00	
BAND 4 BW: 10M 16QAM RB: 1,49	1732.0	20175	V	19.15	9.09	-6.63	21.61	30.00	
	1702.0	20173	Н	22.00	9.10	-6.63	24.47	30.00	
	1750.0	20350	V	21.63	9.17	-6.67	24.13	30.00	
	1730.0	20000	Н	23.05	9.17	-6.67	25.55	30.00	
Remark: (1)The RBW,VBW of SPA for frequency RBW= 8MHz, VBW= 8MHz									

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	Magazzamani									
EUT			Measurement							
Operation Band	Fundamental	СН	Antenna	S.G.	Antenna	Cable	EIRP	Limit		
	Frequency		Pol.	Output	Gain	Loss				
	MHz		V/H	dBm	dBi	dB	dBm	dBm		
LTE BAND 4 BW: 15M QPSK RB: 1,0	1717.5	20025	V	21.48	8.99	-6.58	23.89	30.00		
			Н	23.73	8.99	-6.58	26.14	30.00		
	1732.5	20175	V	19.16	9.05	-6.61	21.60	30.00		
			Н	22.20	9.05	-6.61	24.64	30.00		
	1747.5	20325	V	20.89	9.11	-6.64	23.36	30.00		
			Н	22.77	9.11	-6.64	25.24	30.00		
LTE BAND 4 BW: 15M QPSK RB: 1,74	1717.5	20025	V	19.77	9.04	-6.61	22.20	30.00		
			Н	23.09	9.04	-6.61	25.52	30.00		
	1732.5	20175	V	20.02	9.10	-6.64	22.48	30.00		
			Н	22.52	9.10	-6.64	24.98	30.00		
	1747.5	20325	V	21.12	9.17	-6.67	23.62	30.00		
			Н	22.46	9.17	-6.67	24.96	30.00		
LTE	1717.5	20025	V	21.59	8.99	-6.58	24.00	30.00		
BAND 4 BW: 15M 16QAM RB: 1,0			Н	23.77	8.99	-6.58	26.18	30.00		
	1732.5	20175	V	19.27	9.05	-6.61	21.71	30.00		
			Н	22.54	9.05	-6.61	24.98	30.00		
	1747.5	20325	V	20.68	9.11	-6.64	23.15	30.00		
			Н	23.23	9.11	-6.64	25.70	30.00		
LTE BAND 4 BW: 15M 16QAM RB: 1,74	1717.5	20025	V	19.86	9.04	-6.61	22.29	30.00		
			Н	23.04	9.04	-6.61	25.47	30.00		
	1732.5	20175	V	20.16	9.10	-6.64	22.62	30.00		
			Н	22.64	9.10	-6.64	25.10	30.00		
	1747.5	20325	V	21.81	9.17	-6.67	24.31	30.00		
			Н	23.16	9.17	-6.67	25.66	30.00		
Remark: (1)The RBW,VBW of SPA for frequency RBW= 8MHz, VBW= 8MHz										

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	Measurement									
Operation	peration Fundamental Band Frequency	СН	Antenna Pol.	S.G. Antenna		Cable	FIRE			
Band				Output	Gain	Loss	EIRP	Limit		
	MHz		V/H	dBm	dBi	dB	dBm	dBm		
LTE BAND 4 BW: 20M QPSK RB: 1,0	1720.0	20050	V	18.45	9.09	-6.63	20.91	30.00		
			Н	21.07	9.09	-6.63	23.53	30.00		
	1732.5	20175	V	21.37	9.04	-6.61	23.80	30.00		
			Н	23.12	9.04	-6.61	25.55	30.00		
	1745.0	20300	V	18.70	9.09	-6.63	21.16	30.00		
			Н	21.60	9.09	-6.63	24.06	30.00		
LTE BAND 4 BW: 20M QPSK RB: 1,99	1720.0	20050	V	21.22	9.17	-6.67	23.72	30.00		
			Н	22.54	9.17	-6.67	25.04	30.00		
	1732.5	20175	V	20.78	9.11	-6.64	23.25	30.00		
			Н	23.28	9.11	-6.64	25.75	30.00		
	1745.0	20300	V	21.22	9.17	-6.67	23.72	30.00		
			Н	22.39	9.17	-6.67	24.89	30.00		
LTE BAND 4 BW: 20M 16QAM RB: 1,0	1720.0	20050	V	19.11	9.09	-6.63	21.57	30.00		
			Н	21.92	9.09	-6.63	24.38	30.00		
	1732.5	20175	V	19.99	9.04	-6.61	22.42	30.00		
			Н	23.15	9.04	-6.61	25.58	30.00		
	1745.0	20300	V	19.37	9.09	-6.63	21.83	30.00		
			Н	22.17	9.09	-6.63	24.63	30.00		
LTE BAND 4 BW: 20M 16QAM RB: 1,99	1720.0	20050	V	21.79	9.17	-6.67	24.29	30.00		
			Н	22.97	9.17	-6.67	25.47	30.00		
	1732.5	20175	V	20.89	9.11	-6.64	23.36	30.00		
			Н	23.41	9.11	-6.64	25.88	30.00		
	1745.0	20300	V	21.91	9.17	-6.67	24.41	30.00		
			Н	23.05	9.17	-6.67	25.55	30.00		
Remark: (1)The RBW,VBW of SPA for frequency RBW= 8MHz, VBW= 8MHz										

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0	F do dol	ı	A I	0.0	A I	Oalala	l		
Operation	Fundamental	СН	Antenna	S.G.	Antenna	Cable	ERP	Limit	
Band	Frequency		Pol.	Output	Gain	Loss			
	MHz		V/H	dBm	dBd	dB	dBm	dBm	
LTE	824.7	20407	V	16.89	5.14	-4.18	17.85	38.45	
BAND 5	<i>02</i> 1.7	20107	Н	22.58	5.13	-4.18	23.53	38.45	
BW: 1.4M	836.5	20525	V	17.34	5.10	-4.23	18.21	38.45	
QPSK	000.5	20020	Н	21.96	5.10	-4.22	22.84	38.45	
RB: 1,0	848.3	20643	V	16.04	5.06	-4.26	16.84	38.45	
110. 1,0	040.0	20043	Н	20.81	5.06	-4.26	21.61	38.45	
LTE	824.7	20407	V	16.48	5.14	-4.18	17.44	38.45	
BAND 5	024.7	20407	Н	21.68	5.13	-4.18	22.63	38.45	
BW: 1.4M	926 F	20525	V	17.22	5.10	-4.23	18.09	38.45	
QPSK	836.5	20525	Н	21.93	5.09	-4.23	22.79	38.45	
	040.0	20643	V	15.26	5.05	-4.27	16.04	38.45	
RB: 1,5	848.3		Н	20.57	5.06	-4.26	21.37	38.45	
LTE	004.7	20407	V	16.47	5.14	-4.18	17.43	38.45	
BAND 5	824.7	20407	Н	21.92	5.14	-4.18	22.88	38.45	
BW: 1.4M	836.5	20525	V	17.20	5.10	-4.22	18.08	38.45	
16QAM	030.3	20323	Н	21.95	5.10	-4.22	22.83	38.45	
RB: 1,0	848.3	20643	V	15.74	5.06	-4.26	16.54	38.45	
nb. 1,0	040.3	20043	Н	20.87	5.06	-4.26	21.67	38.45	
ITE	9947	20407	V	16.32	5.13	-4.18	17.27	38.45	
LTE	824.7	20407	Н	21.68	5.13	-4.18	22.63	38.45	
BAND 5	926 E	20525	V	17.32	5.09	-4.23	18.18	38.45	
BW: 1.4M 16QAM	836.5	20525	Н	22.00	5.09	-4.23	22.86	38.45	
	040.0	20642	V	15.31	5.05	-4.27	16.09	38.45	
RB: 1,5	848.3 200	20643	Н	20.68	5.05	-4.27	21.46	38.45	
Remark: (1)The RBW,VBW of SPA for frequency RBW= 8MHz, VBW= 8MHz									

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	EUT				Measurem	ent		
Operation	Fundamental	СН	Antenna	S.G.	Antenna	Cable	ERP	Limit
Band	Frequency		Pol.	Output	Gain	Loss		
	MHz		V/H	dBm	dBd	dB	dBm	dBm
LTE	825.5	20415	V	16.31	5.14	-4.18	17.27	38.45
BAND 5	023.5	20413	Н	21.47	5.14	-4.18	22.43	38.45
BW: 3M	836.5	20525	V	17.27	5.10	-4.22	18.15	38.45
QPSK	030.5	20323	Н	22.02	5.10	-4.22	22.90	38.45
RB: 1,0	847.5	20635	V	16.64	5.06	-4.26	17.44	38.45
יי טוו. ו	047.5	20033	Н	21.33	5.06	-4.26	22.13	38.45
LTE	825.5	20415	V	16.09	5.13	-4.19	17.03	38.45
BAND 5	023.3	20413	Н	21.20	5.13	-4.19	22.14	38.45
	836.5	20525 -	V	16.99	5.09	-4.23	17.85	38.45
BW: 3M QPSK RB: 1,14	030.5		Н	21.56	5.09	-4.23	22.42	38.45
	847.5	20635	V	15.31	5.06	-4.27	16.10	38.45
ND. 1,14	047.5	20033	Н	20.59	5.06	-4.26	21.39	38.45
LTE	825.5	20415	V	16.30	5.14	-4.18	17.26	38.45
BAND 5	023.3	20413	Н	21.52	5.14	-4.18	22.48	38.45
BW: 3M	836.5	20525	V	17.03	5.10	-4.22	17.91	38.45
16QAM	030.5	20323	Н	21.74	5.10	-4.22	22.62	38.45
RB: 1,0	847.5	20635	V	16.08	5.06	-4.26	16.88	38.45
יי טוו. ו	047.5	20033	Н	21.12	5.07	-4.26	21.93	38.45
LTE	825.5	20415	V	16.09	5.13	-4.19	17.03	38.45
BAND 5	023.3	20413	Н	21.22	5.13	-4.19	22.16	38.45
	836.5	20525	V	17.07	5.09	-4.23	17.93	38.45
BW: 3M 16QAM	000.0	20020	Н	21.68	5.09	-4.23	22.54	38.45
RB: 1,14	847.5	20635	V	15.36	5.06	-4.27	16.15	38.45
Πυ. 1,14	047.0	20000	Н	20.73	5.06	-4.27	21.52	38.45
Remark:	(1)The R	BW,VBW	of SPA for	frequency	y RBW= 8M	IHz , VB	W= 8MF	z

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	EUT				Measurem	ent		
Operation	Fundamental	СН	Antenna	S.G.	Antenna	Cable	ERP	Limit
Band	Frequency		Pol.	Output	Gain	Loss		
	MHz		V/H	dBm	dBd	dB	dBm	dBm
LTE	826.5	20425	V	16.26	5.14	-4.18	17.22	38.45
BAND 5	020.5	20423	Н	21.49	5.14	-4.18	22.45	38.45
BW: 5M	836.5	20525	V	17.30	5.11	-4.22	18.19	38.45
QPSK	030.5	20323	Н	22.07	5.10	-4.22	22.95	38.45
RB: 1,0	846.5	20625	V	16.61	5.07	-4.25	17.43	38.45
יי טוו. ו	040.5	20023	Н	21.31	5.07	-4.25	22.13	38.45
LTE	826.5	20425	V	16.11	5.12	-4.19	17.04	38.45
BAND 5	020.5	20423	Н	21.18	5.13	-4.19	22.12	38.45
BW: 5M	836.5	20525	V	16.98	5.09	-4.23	17.84	38.45
QPSK RB: 1,24	030.5		Н	21.46	5.09	-4.23	22.32	38.45
	846.5	20625	V	15.46	5.06	-4.26	16.26	38.45
110. 1,24	040.5	20023	Н	20.73	5.05	-4.27	21.51	38.45
LTE	826.5	20425	V	16.32	5.14	-4.18	17.28	38.45
BAND 5	020.5	20423	Н	21.49	5.14	-4.18	22.45	38.45
BW: 5M	836.5	20525	V	17.33	5.11	-4.22	18.22	38.45
16QAM	030.5	20323	Н	21.82	5.11	-4.21	22.72	38.45
RB: 1,0	846.5	20625	V	16.47	5.08	-4.25	17.30	38.45
110. 1,0	040.5	20023	Н	21.39	5.07	-4.25	22.21	38.45
LTE	826.5	20425	V	16.09	5.12	-4.20	17.01	38.45
BAND 5	020.5	20423	Н	21.16	5.12	-4.19	22.09	38.45
	836.5	20525	V	17.11	5.09	-4.23	17.97	38.45
BW: 5M 16QAM - RB: 1,24		20020	Н	21.54	5.09	-4.23	22.40	38.45
	846.5	20625	V	16.31	5.07	-4.25	17.13	38.45
110. 1,24	U 1 U.J	20023	Н	20.75	5.06	-4.26	21.55	38.45
Remark:	(1)The R	BW,VBW	of SPA for	frequency	y RBW= 8M	IHz , VB	W= 8MF	lz

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	EUT				Measurem	ent		
Operation	Fundamental	СН	Antenna	S.G.	Antenna	Cable	ERP	Limit
Band	Frequency		Pol.	Output	Gain	Loss		
	MHz		V/H	dBm	dBd	dB	dBm	dBm
LTE	829.0	20450	V	16.18	5.14	-4.18	17.14	38.45
BAND 5	029.0	20430	Н	21.29	5.14	-4.18	22.25	38.45
BW: 10M	836.5	20525	V	16.75	5.11	-4.21	17.65	38.45
QPSK	030.5	20323	Н	22.29	5.11	-4.21	23.19	38.45
RB: 1,0	844.0	20600	V	16.79	5.09	-4.24	17.64	38.45
110. 1,0	044.0	20000	Н	20.66	5.09	-4.24	21.51	38.45
LTE	829.0	20450	V	17.70	5.11	-4.21	18.60	38.45
BAND 5	029.0	20430	Н	21.86	5.11	-4.21	22.76	38.45
BW: 10M	836.5	20525	V	16.65	5.08	-4.24	17.49	38.45
QPSK RB: 1,49	030.5	20323	Н	21.02	5.08	-4.24	21.86	38.45
	844.0	20600	V	15.35	5.06	-4.26	16.15	38.45
110. 1,43	044.0	20000	Н	20.56	5.06	-4.27	21.35	38.45
LTE	829.0	20450	V	16.16	5.14	-4.18	17.12	38.45
BAND 5	029.0	20430	Н	21.21	5.14	-4.18	22.17	38.45
BW: 10M	836.5	20525	V	16.73	5.11	-4.21	17.63	38.45
16QAM	030.5	20323	Н	21.59	5.11	-4.21	22.49	38.45
RB: 1,0	844.0	20600	V	16.59	5.09	-4.24	17.44	38.45
110. 1,0	044.0	20000	Н	21.06	5.09	-4.24	21.91	38.45
LTE	829.0	20450	V	17.12	5.11	-4.21	18.02	38.45
BAND 5	029.0	20430	Н	21.59	5.11	-4.21	22.49	38.45
	836.5	20525	V	16.52	5.08	-4.24	17.36	38.45
BW: 10M 16QAM RB: 1,49		20020	Н	20.96	5.08	-4.24	21.80	38.45
	844.0	20600	V	15.45	5.06	-4.26	16.25	38.45
11D. 1,43	UTT.U	20000	Н	20.59	5.06	-4.26	21.39	38.45
Remark:	(1)The R	$BW,VB\overline{W}$	of SPA for	frequency	y RBW= 8M	IHz , VB	W= 8MF	lz

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	EUT				Measurem	nent		
Operation	Fundamental	СН	Antenna	S.G.	Antenna	Cable	EIRP	Limit
Band	Frequency		Pol.	Output	Gain	Loss		Lillit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE	2502.5	20775	V	16.12	10.70	-7.83	18.99	33.01
BAND 7	2502.5	20775	Н	12.40	10.70	-7.83	15.27	33.01
	0505.0	21100	V	16.11	10.74	-7.87	18.98	33.01
BW: 5M	2535.0	21100	Н	13.18	10.74	-7.87	16.05	33.01
QPSK	0567.5	01405	V	14.26	10.78	-7.90	17.14	33.01
RB: 1,0	2567.5	21425	Н	11.53	10.78	-7.90	14.41	33.01
LTE	0500 F	00775	V	16.26	10.71	-7.83	19.14	33.01
LTE	2502.5	20775	Н	12.59	10.71	-7.83	15.47	33.01
BAND 7 BW: 5M QPSK	0505.0	21100	V	14.79	10.74	-7.87	17.66	33.01
	2535.0	21100	Н	11.71	10.74	-7.87	14.58	33.01
	0567.5	01405	V	14.68	10.78	-7.91	17.55	33.01
RB: 1,24	2567.5	21425	Н	11.39	10.78	-7.91	14.26	33.01
LTE	0500 F	00775	V	17.57	10.70	-7.83	20.44	33.01
LTE	2502.5	20775	Н	13.82	10.70	-7.83	16.69	33.01
BAND 7	0505.0	01100	V	15.74	10.74	-7.87	18.61	33.01
BW: 5M	2535.0	21100	Н	13.30	10.74	-7.87	16.17	33.01
16QAM	0567.5	01405	V	14.32	10.78	-7.90	17.20	33.01
RB: 1,0	2567.5	21425	Н	11.53	10.78	-7.90	14.41	33.01
LTE	0500.5	00775	V	16.37	10.71	-7.84	19.24	33.01
LTE	2502.5	20775	Н	12.90	10.71	-7.84	15.77	33.01
BAND 7	0505.0	01100	V	16.37	10.74	-7.87	19.24	33.01
BW: 5M 16QAM - RB: 1,24	2535.0	21100	Н	13.34	10.74	-7.87	16.21	33.01
	0507.5	01.405	V	14.78	10.78	-7.91	17.65	33.01
	2567.5	21425	Н	11.54	10.78	-7.91	14.41	33.01
Remark :	(1)The R	BW,VBW	of SPA for	frequency	RBW= 8M	Hz , VB	W= 8MF	lz

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	EUT				Measurem	ent		
Operation	Fundamental	СН	Antenna	S.G.	Antenna	Cable	EIRP	Limit
Band	Frequency	011	Pol.	Output	Gain	Loss		
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE	2505.0	20800	V	15.81	10.70	-7.83	18.68	33.01
BAND 7	2303.0	20000	Н	12.38	10.70	-7.83	15.25	33.01
BW: 10M	2535.0	21100	V	15.42	10.74	-7.86	18.30	33.01
QPSK	2555.0	21100	Н	12.57	10.74	-7.86	15.45	33.01
	2565.0	21400	V	14.73	10.77	-7.90	17.60	33.01
RB: 1,0	2303.0	21400	Н	12.07	10.77	-7.90	14.94	33.01
LTE	2505.0	20800	V	15.72	10.71	-7.84	18.59	33.01
BAND 7	2303.0	20000	Н	12.63	10.71	-7.84	15.50	33.01
BW: 10M QPSK RB: 1,49	2535.0	21100	V	14.94	10.75	-7.87	17.82	33.01
	2555.0	21100	Н	11.23	10.75	-7.87	14.11	33.01
	2565.0	21400	V	14.49	10.78	-7.91	17.36	33.01
ND. 1,48	2303.0	21400	Н	11.69	10.78	-7.91	14.56	33.01
LTE	2505.0	20800	V	17.17	10.70	-7.83	20.04	33.01
BAND 7	2303.0	20000	Н	14.00	10.70	-7.83	16.87	33.01
BW: 10M	2535.0	21100	V	15.49	10.74	-7.86	18.37	33.01
16QAM	2555.0	21100	Н	12.70	10.74	-7.86	15.58	33.01
RB: 1,0	2565.0	21400	V	14.76	10.77	-7.90	17.63	33.01
nb. 1,0	2303.0	21400	Н	12.07	10.77	-7.90	14.94	33.01
LTE	2505.0	20800	V	17.25	10.71	-7.84	20.12	33.01
BAND 7	2303.0	20000	Н	14.15	10.71	-7.84	17.02	33.01
	2535.0	21100	V	16.59	10.75	-7.87	19.47	33.01
BW: 10M 16QAM	2000.0	21100	Н	12.97	10.75	-7.87	15.85	33.01
	2565.0 21400	V	14.64	10.78	-7.91	17.51	33.01	
RB: 1,49	2565.0	21400	Н	11.95	10.78	-7.91	14.82	33.01
Remark:	(1)The Ri	BW,VBW	of SPA for	frequency	RBW= 8M	Hz , VB	W= 8MF	z

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	•							
	EUT				Measurem	ent		
Operation	Fundamental	СН	Antenna	S.G.	Antenna	Cable	EIRP	Limit
Band	Frequency		Pol.	Output	Gain	Loss	LIIII	Lillit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE	2507.5	20825	V	15.90	10.70	-7.83	18.77	33.01
BAND 7	2307.3	20023	Н	12.01	10.70	-7.83	14.88	33.01
BW: 15M	2525.0	21100	V	15.14	10.73	-7.86	18.01	33.01
QPSK	2535.0	21100	Н	11.39	10.73	-7.86	14.26	33.01
	0560.5	01075	V	15.44	10.77	-7.89	18.32	33.01
RB: 1,0	2562.5	21375	Н	11.23	10.77	-7.89	14.11	33.01
LTE	0507.5	00005	V	16.41	10.72	-7.85	19.28	33.01
LTE	2507.5	20825	Н	12.05	10.72	-7.85	14.92	33.01
BAND 7	0505.0	01100	V	15.08	10.75	-7.88	17.95	33.01
BW: 15M QPSK	2535.0	21100	Н	11.94	10.75	-7.88	14.81	33.01
	0500.5	21375	V	14.78	10.78	-7.91	17.65	33.01
RB: 1,74	2562.5	213/5	Н	11.53	10.78	-7.91	14.40	33.01
LTE	0507.5	00005	V	16.15	10.70	-7.83	19.02	33.01
LTE	2507.5	20825	Н	12.26	10.70	-7.83	15.13	33.01
BAND 7	0505.0	01100	V	16.62	10.73	-7.86	19.49	33.01
BW: 15M	2535.0	21100	Н	12.87	10.73	-7.86	15.74	33.01
16QAM	0560.5	01075	V	16.78	10.77	-7.89	19.66	33.01
RB: 1,0	2562.5	21375	Н	12.75	10.77	-7.89	15.63	33.01
LTE	2507.5	20025	V	17.24	10.72	-7.85	20.11	33.01
LTE	2507.5	20825	Н	13.09	10.72	-7.85	15.96	33.01
BAND 7	2525.0	21100	V	15.36	10.75	-7.88	18.23	33.01
BW: 15M 16QAM - RB: 1,74	2535.0	21100	Н	12.18	10.75	-7.88	15.05	33.01
	0560.5	01075	V	14.93	10.78	-7.91	17.80	33.01
	2562.5	21375	Н	11.74	10.78	-7.91	14.61	33.01
Remark:	(1)The R	BW,VBW	of SPA for	frequency	RBW= 8M	Hz , VB	W= 8MF	lz

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			1					
	EUT				Measurem	ent		
Operation	Fundamental	СН	Antenna	S.G.	Antenna	Cable	EIRP	Limit
Band	Frequency		Pol.	Output	Gain	Loss		
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE	2510.0	20850	V	15.77	10.70	-7.83	18.64	33.01
BAND 7	2310.0	20030	Н	12.10	10.70	-7.83	14.97	33.01
BW: 20M	2535.0	21100	V	14.49	10.73	-7.86	17.36	33.01
QPSK	2555.0	21100	Н	11.25	10.73	-7.86	14.12	33.01
RB: 1,0	2560.0	21350	V	14.82	10.76	-7.89	17.69	33.01
nb. 1,0	2300.0	21330	Н	10.88	10.76	-7.89	13.75	33.01
LTE	2510.0	20850	V	15.02	10.72	-7.85	17.89	33.01
BAND 7	2310.0	20030	Н	11.66	10.72	-7.85	14.53	33.01
BW: 20M QPSK	2535.0	21100 -	V	15.29	10.75	-7.88	18.16	33.01
	2555.0	21100	Н	10.63	10.75	-7.88	13.50	33.01
	2560.0	21250	V	14.52	10.78	-7.91	17.39	33.01
RB: 1,99	2300.0	21350	Н	11.79	10.78	-7.91	14.66	33.01
LTE	2510.0	20850	V	17.35	10.70	-7.83	20.22	33.01
BAND 7	2310.0	20030	Н	13.47	10.70	-7.83	16.34	33.01
BW: 20M	2535.0	21100	V	15.92	10.73	-7.86	18.79	33.01
16QAM	2555.0	21100	Н	12.68	10.73	-7.86	15.55	33.01
	2560.0	21350	V	16.34	10.76	-7.89	19.21	33.01
RB: 1,0	2500.0	21330	Н	12.33	10.76	-7.89	15.20	33.01
LTE	2510.0	20850	V	15.73	10.72	-7.85	18.60	33.01
BAND 7	2310.0	20030	Н	12.33	10.72	-7.85	15.20	33.01
	2535.0	21100	V	16.98	10.75	-7.88	19.85	33.01
BW: 20M 16QAM RB: 1,99	2000.0	21100	Н	12.38	10.75	-7.88	15.25	33.01
	0560.0	V	14.57	10.78	-7.91	17.44	33.01	
	2560.0	21350	Н	11.92	10.78	-7.91	14.79	33.01
Remark:	(1)The R	BW,VBW	of SPA for	frequency	y RBW= 8M	lHz , VB	W= 8MF	lz

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	EUT				Measurem	nent		
Operation Band	Fundamental Frequency	СН	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
LTE	699.7	23017	٧	17.07	5.05	-3.82	18.30	34.77
BAND 12	099.7	23017	Н	22.78	5.06	-3.82	24.02	34.77
BW: 1.4M	707.5	23095	٧	17.33	5.07	-3.84	18.56	34.77
QPSK	707.5	23093	Н	23.41	5.07	-3.84	24.64	34.77
RB: 1,0	715.3	23173	٧	16.74	5.09	-3.86	17.97	34.77
110. 1,0	715.5	23173	Н	22.89	5.09	-3.87	24.11	34.77
LTE	699.7	23017	٧	16.92	5.06	-3.82	18.16	34.77
	099.7	23017	Н	22.48	5.06	-3.82	23.72	34.77
BAND 12 BW: 1.4M QPSK	707.5	23005	٧	17.55	5.07	-3.84	18.78	34.77
	707.5	23095	Η	23.83	5.08	-3.85	25.06	34.77
RB: 1,5	715.3	23173	V	16.47	5.09	-3.87	17.69	34.77
110. 1,0	715.5	20170	Н	22.68	5.09	-3.87	23.90	34.77
LTE	699.7	23017	V	17.34	5.06	-3.82	18.58	34.77
BAND 12	099.7	20017	Н	22.97	5.05	-3.82	24.20	34.77
BW: 1.4M	707.5	23095	V	17.43	5.07	-3.84	18.66	34.77
16QAM	707.5	23093	Н	23.57	5.07	-3.84	24.80	34.77
RB: 1,0	715.3	23173	V	16.77	5.09	-3.86	18.00	34.77
110. 1,0	715.5	20170	Н	22.94	5.09	-3.87	24.16	34.77
LTE	699.7	23017	V	17.11	5.06	-3.82	18.35	34.77
	099.7	20017	Н	22.77	5.06	-3.82	24.01	34.77
BAND 12 - BW: 1.4M 16QAM - RB: 1,5	707.5	23095	V	17.83	5.08	-3.84	19.07	34.77
	707.5	20090	Н	23.77	5.08	-3.85	25.00	34.77
	715.3	23173	V	16.55	5.09	-3.87	17.77	34.77
110.1,0	7 10.0	20170	Н	22.72	5.09	-3.87	23.94	34.77

Remark:

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

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	EUT				Measure	ment		
Operation Band	Fundamental Frequency	СН	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
LTE	700.5	23025	V	16.24	5.05	-3.82	17.47	34.77
BAND 12	700.5	20020	Н	22.16	5.05	-3.82	23.39	34.77
BW: 3M	707.5	23095	V	16.77	5.07	-3.84	18.00	34.77
QPSK	707.5	20030	Н	22.98	5.07	-3.84	24.21	34.77
RB: 1,0	714.5	23165	V	16.63	5.09	-3.86	17.86	34.77
110.1,0	714.5	23103	Н	22.56	5.09	-3.86	23.79	34.77
LTE	700.5	23025	V	16.18	5.06	-3.82	17.42	34.77
BAND 12	700.5	20020	Н	22.40	5.06	-3.83	23.63	34.77
BW: 3M QPSK	707.5	23095	V	17.04	5.08	-3.85	18.27	34.77
	707.5	20030	Н	23.09	5.08	-3.85	24.32	34.77
RB: 1,14	714.5	23165	V	16.58	5.09	-3.87	17.80	34.77
110. 1,14	714.5	20100	Н	22.51	5.09	-3.86	23.74	34.77
LTE	700.5	23025	V	16.27	5.05	-3.82	17.50	34.77
BAND 12	700.5	20020	Н	22.24	5.06	-3.82	23.48	34.77
BW: 3M	707.5	23095	V	16.92	5.07	-3.84	18.15	34.77
16QAM	707.5	20030	Н	23.16	5.07	-3.84	24.39	34.77
RB: 1,0	714.5	23165	V	16.59	5.09	-3.86	17.82	34.77
110.1,0	714.5	20100	Н	22.75	5.09	-3.86	23.98	34.77
LTE	700.5	23025	V	16.10	5.06	-3.82	17.34	34.77
	700.5	20023	Н	22.19	5.06	-3.83	23.42	34.77
BAND 12 - BW: 3M 16QAM - RB: 1,14	707.5	23095	V	17.07	5.08	-3.84	18.31	34.77
	707.5	20090	Н	23.40	5.08	-3.84	24.64	dBm 7 34.77 9 34.77 1 34.77 1 34.77 9 34.77 9 34.77 1 34.77
	714.5	23165	V	16.62	5.09	-3.87	17.84	34.77
ו וט. ו,וד	714.5	20100	Н	22.53	5.09	-3.86	23.76	34.77

Remark:

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

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	EUT				Measurem	ent		
Operation Band	Fundamental Frequency	СН	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
LTE	701.5	22025	V	16.24	5.05	-3.82	17.47	34.77
LTE BAND 12	701.5	23035	Η	22.15	5.05	-3.82	23.38	34.77
BW: 5M	707.5	23095	V	16.62	5.07	-3.83	17.86	34.77
QPSK	707.5	23093	Н	22.69	5.07	-3.84	23.92	34.77
RB: 1,0	713.5	23155	V	16.69	5.08	-3.85	17.92	34.77
110. 1,0	710.0	23133	Н	22.88	5.08	-3.85	24.11	34.77
LTE	701.5	23035	V	16.26	5.07	-3.83	17.50	34.77
BAND 12 BW: 5M	701.5	23033	Н	22.40	5.07	-3.83	23.64	34.77
	707.5	23095	V	16.90	5.08	-3.85	18.13	34.77 34.77 34.77 34.77 34.77
QPSK	707.5	23093	Н	23.17	5.08	-3.85	24.40	34.77
RB: 1,24	713.5	23155	V	16.60	5.09	-3.87	17.82	34.77
110. 1,24	710.5	20100	Н	22.73	5.09	-3.87	23.95	34.77
LTE	701.5	23035	V	16.30	5.05	-3.82	17.53	34.77
BAND 12	701.5	23033	Н	22.20	5.05	-3.82	23.43	34.77
BW: 5M	707.5	23095	V	16.82	5.07	-3.84	18.05	34.77
16QAM	707.5	23093	Н	22.83	5.07	-3.83	24.07	34.77
RB: 1,0	713.5	23155	V	17.06	5.08	-3.85	18.29	34.77
110. 1,0	710.5	20100	Н	23.18	5.08	-3.85	24.41	34.77
LTE	701.5	23035	V	16.47	5.07	-3.83	17.71	34.77
	701.5	20000	Н	22.62	5.07	-3.83	23.86	34.77
BAND 12 - BW: 5M 16QAM - RB: 1,24	707.5	23095	V	17.33	5.08	-3.85	18.56	34.77
	101.5	20093	Н	23.53	5.08	-3.85	24.76	34.77
	712.5	23155	V	16.64	5.09	-3.87	17.86	34.77
110.1,44	713.5	20100	Η	22.78	5.09	-3.87	24.00	34.77

Remark:

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

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	EUT				Measure	ment		
Operation Band	Fundamental Frequency	СН	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
LTE	704.0	23060	V	16.25	5.05	-3.82	17.48	34.77
BAND 12	704.0	23000	Н	22.27	5.06	-3.82	23.51	34.77
BW: 10M	707.5	23095	V	16.24	5.07	-3.83	17.48	34.77
QPSK	707.5	23093	Н	22.39	5.07	-3.83	23.63	34.77
RB: 1,0	711.0	23130	V	16.87	5.07	-3.84	18.10	34.77
110.1,0	711.0	23130	Н	23.01	5.07	-3.84	24.24	34.77
LTE	704.0	23060	V	16.98	5.08	-3.84	18.22	34.77
	704.0	23000	Н	23.16	5.08	-3.85	24.39	34.77
BAND 12 BW: 10M QPSK	707.5	22005	V	16.54	5.08	-3.86	17.76	34.77
	707.5	23095	Н	21.70	5.08	-3.86	22.92	34.77
RB: 1,49	711.0	23130	V	15.70	5.09	-3.86	16.93	34.77
11D. 1,43	711.0	23130	Н	22.90	5.09	-3.87	24.12	34.77
LTE	704.0	23060	V	15.38	5.06	-3.82	16.62	34.77
BAND 12	704.0	23000	Н	22.35	5.06	-3.82	23.59	34.77
BW: 10M	707.5	23095	V	16.31	5.07	-3.83	17.55	34.77
16QAM	707.5	23093	Н	22.35	5.07	-3.83	23.59	34.77
RB: 1,0	711.0	23130	V	16.00	5.07	-3.84	17.23	34.77
110. 1,0	711.0	23130	Н	23.33	5.07	-3.84	24.56	34.77
LTE	704.0	23060	V	17.32	5.08	-3.85	18.55	34.77
	704.0	23000	Н	23.46	5.08	-3.84	24.70	34.77
BAND 12 - BW: 10M 16QAM - RB: 1,49	707.5	23095	V	16.62	5.08	-3.86	17.84	34.77
	707.5	23093	Н	21.76	5.08	-3.86	22.98	34.77
	711.0	23130	V	16.82	5.09	-3.87	18.04	34.77
110.1,43	/ 11.0	20100	Н	23.07	5.09	-3.87	24.29	34.77

Remark:

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

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	EUT	_			Measurem	ent			
Operation	Fundamental	СН	Antenna	S.G.	Antenna	Cable	ERP	Limit	
Band	Frequency		Pol.	Output	Gain	Loss			
	MHz		V/H	dBm	dBd	dB	dBm	dBm	
LTE	779.5	23205	V	16.19	5.19	-4.04	17.34	34.77	
BAND 13	779.5	23203	Н	22.37	5.19	-4.04	23.52	34.77	
BW: 5M	782.0	23230	V	17.28	5.20	-4.05	18.43	34.77	
QPSK	702.0	23230	Н	23.52	5.19	-4.05	24.66	34.77	
	784.5	23255	V	17.38	5.20	-4.05	18.53	34.77	
RB: 1,0	704.5	23233	Н	23.66	5.20	-4.06	24.80	34.77	
LTE	779.5	22205	V	17.82	5.20	-4.06	18.96	34.77	
BAND 13	779.5	23205	Н	24.12	5.20	-4.05	25.27	34.77	
	700.0	22220	V	15.90	5.20	-4.06	17.04	34.77	
BW: 5M QPSK	782.0	23230	Н	22.21	5.20	-4.06	23.35	34.77	
	784.5	23255	V	17.31	5.20	-4.07	18.44	34.77	
RB: 1,24	704.5	23233	Н	23.59	5.20	-4.07	24.72	34.77	
LTE	779.5	23205	V	16.12	5.19	-4.04	17.27	34.77	
BAND 13	779.5	23205	Н	22.37	5.19	-4.04	23.52	34.77	
BW: 5M	782.0	23230	V	17.26	5.20	-4.05	18.41	34.77	
16QAM	702.0	23230	Н	23.51	5.20	-4.05	24.66	34.77	
RB: 1,0	701 E	22255	V	17.53	5.20	-4.06	18.67	34.77	
nb. 1,0	784.5	23255	Н	23.76	5.20	-4.06	24.90	34.77	
LTE	770.5	22205	V	21.32	5.20	-4.05	22.47	34.77	
LTE	779.5	23205	Н	24.30	5.20	-4.06	25.44	34.77	
BAND 13	702.0	22220	V	15.95	5.20	-4.06	17.09	34.77	
BW: 5M	782.0	23230	Н	22.26	5.20	-4.06	23.40	34.77	
16QAM	70 <i>1</i> E	00055	V	17.56	5.20	-4.07	18.69	34.77	
RB: 1,24	784.5	23255	Н	23.89	5.20	-4.08	25.01	34.77	
Remark: (1)The RBW,VBW of SPA for frequency RBW= 8MHz, VBW= 8MHz									

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	EUT				Measuren	ent		
Operation	Fundamental	СН	Antenna	S.G.	Antenna	Cable	ERP	Limit
Band	Frequency		Pol.	Output	Gain	Loss	LIII	Liiiit
LTE								
BAND 13	MHz		V/H	dBm	dBd	dB	dBm	dBm
BW: 10 M								
QPSK	782.0	23230	V	22.43	5.19	-4.04	23.58	34.77
RB: 1,0	702.0	23230	Н	23.83	5.20	-4.07	24.96	34.77
QPSK	782.0	23230	V	22.46	5.19	-4.04	23.61	34.77
RB: 1,49	702.0	20200	Н	23.99	5.20	-4.07	25.12	34.77
16QAM	782.0	23230	V	16.19	5.19	-4.04	17.34	34.77
RB: 1,0	702.0	20200	Н	16.87	5.20	-4.07	18.00	34.77
16QAM	782.0	23230	V	16.20	5.19	-4.04	17.35	34.77
RB: 1,49	702.0	20200	Н	17.01	5.20	-4.07	18.14	34.77
Remark: (1)The RBW,VBW of SPA for frequency RBW= 8MHz, VBW= 8MHz								

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	EUT				Measuren	nent		
Operation Band	Fundamental Frequency	СН	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
LTE	706.5	23755	V	16.05	5.07	-3.83	17.29	34.77
BAND 17	700.5	23733	Н	22.31	5.07	-3.83	23.55	34.77
BW: 5M	710.0	23790	V	16.72	5.08	-3.84	17.96	34.77
QPSK	710.0	23790	Н	23.16	5.08	-3.84	24.40	34.77
RB: 1,0	713.5	23825	V	16.26	5.08	-3.86	17.48	34.77
110. 1,0	7 10.5	20020	Н	22.90	5.08	-3.86	24.12	34.77
LTE	706.5	23755	V	16.42	5.08	-3.85	17.65	34.77
BAND 17	700.5	20733	Н	22.93	5.08	-3.85	24.16	34.77
BW: 5M QPSK	710.0	23700	V	15.95	5.08	-3.86	17.17	34.77
	710.0	23755 23790 23825	Н	22.68	5.08	-3.86	23.90	34.77
RB: 1,24	713.5	23825	V	16.14	5.09	-3.87	17.36	34.77
110. 1,27	7 10.0	20020	Н	22.86	5.09	-3.87	24.08	34.77
LTE	706.5	23755	V	16.18	5.07	-3.83	17.42	34.77
BAND 17	700.5	20733	Н	22.10	5.07	-3.83	23.34	34.77
BW: 5M	710.0	23790	V	16.91	5.08	-3.84	18.15	34.77
16QAM	7 10.0	20130	Н	23.37	5.08	-3.84	24.61	34.77
RB: 1,0	713.5	23825	V	16.37	5.08	-3.86	17.59	34.77
110. 1,0	7 10.0	20020	Н	23.01	5.08	-3.85	24.24	34.77
LTE	706.5	23755	V	16.58	5.08	-3.85	17.81	34.77
	700.5	20733	Н	23.12	5.08	-3.85	24.35	34.77
BAND 17 - BW: 5M 16QAM - RB: 1,24	710.0	23790	V	16.04	5.09	-3.86	17.27	34.77
	710.0	20130	Н	22.82	5.09	-3.86	24.05	34.77
	713.5	23825	V	16.33	5.09	-3.87	17.55	34.77
110.1,44	110.0	20023	Н	23.13	5.09	-3.87	24.35	34.77

Remark:

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

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	EUT				Measure	ment		
Operation Band	Fundamental Frequency	СН	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
LTE	709.0	23780	V	15.98	5.07	-3.83	17.22	34.77
BAND 17	709.0	23700	Н	22.06	5.07	-3.83	23.30	34.77
BW: 10M	710.0	23790	V	16.03	5.07	-3.84	17.26	34.77
QPSK	710.0	23790	Н	22.20	5.07	-3.84	23.43	34.77
RB: 1,0	711.0	23800	V	16.16	5.07	-3.84	17.39	34.77
110.1,0	711.0	23000	Н	22.41	5.07	-3.84	23.64	34.77
LTE	709.0	23780	V	15.73	5.09	-3.86	16.96	34.77
	709.0	23700	Н	22.44	5.09	-3.86	23.67	34.77
BAND 17 BW: 10M QPSK	710.0	23790	٧	15.75	5.09	-3.86	16.98	34.77
	710.0	23/90	Н	22.48	5.09	-3.86	23.71	34.77
RB: 1,49	711.0	23800	V	14.76	5.09	-3.87	15.98	34.77
110. 1,43	711.0	23000	Н	22.67	5.09	-3.87	23.89	34.77
LTE	709.0	23780	V	16.06	5.07	-3.84	17.29	34.77
BAND 17	709.0	25760	Η	22.15	5.07	-3.83	23.39	34.77
BW: 10M	710.0	23790	V	16.06	5.07	-3.84	17.29	34.77
16QAM	710.0	23790	Н	22.32	5.07	-3.84	23.55	34.77
RB: 1,0	711.0	23800	V	16.30	5.07	-3.84	17.53	34.77
110.1,0	711.0	25000	Н	22.55	5.07	-3.84	23.78	34.77
LTE	709.0	23780	V	15.70	5.09	-3.86	16.93	34.77
	703.0	20700	Н	22.44	5.09	-3.86	23.67	34.77
BAND 17 - BW: 10M 16QAM - RB: 1,49	710.0	23790	V	15.71	5.09	-3.86	16.94	34.77
	7 10.0	20180	Н	22.45	5.09	-3.86	23.68	34.77
	711.0	23800	V	15.92	5.09	-3.87	17.14	34.77
1 10. 1, 4 3	711.0	20000	Н	22.74	5.09	-3.87	23.96	34.77

Remark:

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

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	EUT		<u> </u>		Measurem	ant		
Operation	Fundamental		Antenna	S.G.	Antenna	Cable		
Band	Frequency	СН	Pol.	Output	Gain	Loss	EIRP	Limit
Dana	MHz		V/H	dBm	dBi	dB	dBm	dBm
	141112		V	20.75	9.57	-6.86	23.46	33.01
LTE	1850.7	26047	H	23.08	9.57	-6.86	25.79	33.01
BAND 25			V	20.29	9.70	-6.92	23.07	33.01
BW: 1.4M	1882.5	26365	H	22.20	9.71	-6.92	24.99	33.01
QPSK			V	19.10	9.84	-6.98	21.96	33.01
RB: 1,0	1914.3	26683	H	20.41	9.84	-6.98	23.27	33.01
			V	20.24	9.58	-6.86	22.96	33.01
LTE	1850.7	26047	H	23.20	9.58	-6.86	25.92	33.01
BAND 25			V	20.33	9.71	-6.92	23.12	33.01
BW: 1.4M QPSK	1882.5	26365	Н	22.47	9.71	-6.92	25.26	33.01
			V	18.29	9.84	-6.98	21.15	33.01
RB: 1,5	1914.3	26683	Н	19.33	9.84	-6.98	22.19	33.01
	40=0=	0004=	V	20.63	9.57	-6.86	23.34	33.01
LTE	1850.7	26047	Н	23.19	9.57	-6.86	25.90	33.01
BAND 25	1000 5	00005	V	20.70	9.71	-6.92	23.49	33.01
BW: 1.4M	1882.5	26365	Н	22.52	9.71	-6.92	25.31	33.01
16QAM	1014.0	00000	V	18.88	9.84	-6.98	21.74	33.01
RB: 1,0	1914.3	26683	Н	20.41	9.84	-6.98	23.27	33.01
LTE	1050.7	06047	V	20.50	9.58	-6.86	23.22	33.01
LTE	1850.7	26047	Н	23.06	9.58	-6.86	25.78	33.01
BAND 25	1000 5	26265	V	20.53	9.71	-6.92	23.32	33.01
BW: 1.4M 16QAM - RB: 1,5	1882.5	26365	Н	22.54	9.71	-6.92	25.33	33.01
	101// 2	26683	V	18.17	9.84	-6.98	21.03	33.01
	1914.3	20000	Н	19.41	9.85	-6.98	22.28	33.01
Remark:	(1)The R	BW,VBW	of SPA for	frequency	RBW= 8M	lHz , VB	W= 8MF	lz

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			1						
	EUT				Measurem	ent			
Operation	Fundamental	СН	Antenna	S.G.	Antenna	Cable	EIRP	Limit	
Band	Frequency	011	Pol.	Output	Gain	Loss			
	MHz		V/H	dBm	dBi	dB	dBm	dBm	
LTE	1851.5	26055	V	20.04	9.57	-6.86	22.75	33.01	
BAND 25	1001.0	20055	Н	23.25	9.57	-6.86	25.96	33.01	
BW: 3M	1882.5	26365	V	20.07	9.70	-6.92	22.85	33.01	
QPSK	1002.5	20303	Н	22.49	9.70	-6.91	25.28	33.01	
	1913.5	26675	V	19.78	9.83	-6.97	22.64	33.01	
RB: 1,0	1913.5	20075	Н	21.13	9.83	-6.97	23.99	33.01	
LTE	1051 5	26055	V	20.27	9.58	-6.86	22.99	33.01	
BAND 25	1851.5	26055	Н	22.90	9.58	-6.86	25.62	33.01	
BW: 3M	1000 5	26265	V	20.24	9.71	-6.92	23.03	33.01	
QPSK	1882.5	26365	Н	22.30	9.71	-6.92	25.09	33.01	
	1012 5	26675	V	18.37	9.84	-6.98	21.23	33.01	
RB: 1,14	1913.5	26675	Н	19.35	9.84	-6.98	22.21	33.01	
LTE	1851.5	26055	V	20.55	9.57	-6.86	23.26	33.01	
BAND 25	1001.0	20055	Н	23.57	9.57	-6.86	26.28	33.01	
BW: 3M	1882.5	26365	V	20.56	9.70	-6.92	23.34	33.01	
	1002.5	20303	Н	22.80	9.70	-6.91	25.59	33.01	
16QAM RB: 1,0	1913.5	26675	V	19.85	9.83	-6.97	22.71	33.01	
nd. 1,0	1913.5	20075	Н	21.08	9.83	-6.97	23.94	33.01	
ITE	1051 5	26055	V	20.60	9.58	-6.86	23.32	33.01	
LTE BAND 25	1851.5	26055	Н	23.35	9.58	-6.86	26.07	33.01	
BAND 25	1000 5	26265	V	20.45	9.71	-6.92	23.24	33.01	
BW: 3M 16QAM RB: 1,14	1882.5	26365	Н	22.39	9.71	-6.92	25.18	33.01	
	1012 5	06675	V	18.66	9.84	-6.98	21.52	33.01	
	1913.5	26675	Н	19.56	9.84	-6.98	22.42	33.01	
Remark: (1)The RBW,VBW of SPA for frequency RBW= 8MHz, VBW= 8MHz									

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	EUT				Measurem	ont		
Operation	Fundamental	I	Antenna	S.G.	Antenna	Cable	I	
Band		СН	Pol.	Output	Gain	Loss	EIRP	Limit
Dallu	Frequency MHz		V/H	dBm	dBi	dB	dBm	dBm
	IVI ITZ							
LTE	1852.5	26065	V	20.32	9.57	-6.86	23.03	33.01
BAND 25			Н	22.86	9.57	-6.86	25.57	33.01
BW: 5M	1882.5	26365	V	20.33	9.70	-6.91	23.12	33.01
QPSK			Н	22.55	9.70	-6.91	25.34	33.01
RB: 1,0	1912.5	26665	V	19.37	9.82	-6.97	22.22	33.01
			Н	20.34	9.82	-6.97	23.19	33.01
LTE	1852.5	26065	V	20.29	9.59	-6.86	23.02	33.01
BAND 25	1002.0	20003	Н	22.56	9.59	-6.86	25.29	33.01
BW: 5M	1882.5	26365	V	20.32	9.72	-6.92	23.12	33.01
QPSK RB: 1,24	1002.5	20303	Н	22.17	9.72	-6.92	24.97	33.01
	1912.5	26665	V	18.80	9.84	-6.98	21.66	33.01
ΠD. 1,24	1912.5	20003	Н	19.25	9.84	-6.98	22.11	33.01
LTE	1050 5	26065	V	20.63	9.57	-6.86	23.34	33.01
BAND 25	1852.5	26065	Н	23.33	9.57	-6.86	26.04	33.01
BW: 5M	1000 5	26265	V	20.65	9.70	-6.91	23.44	33.01
	1882.5	26365	Н	22.95	9.70	-6.91	25.74	33.01
16QAM RB: 1,0	1912.5	26665	V	19.40	9.83	-6.97	22.26	33.01
ים. ו,ט	1912.5	20003	Н	20.43	9.82	-6.97	23.28	33.01
LTE	1852.5	26065	V	20.78	9.59	-6.86	23.51	33.01
	1002.0	20003	Н	23.27	9.59	-6.87	25.99	33.01
BAND 25	1000 5	26265	V	20.45	9.72	-6.92	23.25	33.01
BW: 5M 16QAM - RB: 1,24	1882.5	26365	Н	22.52	9.72	-6.92	25.32	33.01
	1012.5	26665	V	18.84	9.84	-6.98	21.70	33.01
	1912.5	26665	Н	19.61	9.84	-6.98	22.47	33.01
Remark:	(1)The Ri	BW,VBW	of SPA for	frequency	RBW= 8M	lHz , VB	W= 8M F	lz

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	EUT				Measurem	ont		
Operation	Fundamental	I	Antenna	S.G.	Antenna	Cable	I	
Band		СН	Pol.	Output	Gain	Loss	EIRP	Limit
Dallu	Frequency MHz		V/H	dBm	dBi	dB	dBm	dBm
	IVI ITZ							
LTE	1855.0	26090	V	20.04	9.57	-6.86	22.75	33.01
BAND 25			Н	23.19	9.57	-6.86	25.90	33.01
BW: 10M	1882.5	26365	V	20.36	9.69	-6.91	23.14	33.01
QPSK			Н	22.96	9.69	-6.91	25.74	33.01
RB: 1,0	1910.0	26640	V	19.76	9.80	-6.96	22.60	33.01
			Н	21.29	9.81	-6.96	24.14	33.01
LTE	1855.0	26090	V	20.97	9.61	-6.87	23.71	33.01
BAND 25	1000.0	20000	Н	23.01	9.61	-6.87	25.75	33.01
BW: 10M	1882.5	26365	V	20.45	9.73	-6.93	23.25	33.01
QPSK	1002.5	20303	Н	22.27	9.73	-6.93	25.07	33.01
	1910.0	26640	V	18.67	9.84	-6.98	21.53	33.01
RB: 1,49	1910.0	20040	Н	19.66	9.84	-6.98	22.52	33.01
LTE	1055.0	26000	V	20.46	9.57	-6.86	23.17	33.01
BAND 25	1855.0	26090	Н	23.24	9.57	-6.86	25.95	33.01
BW: 10M	1000 5	26265	V	20.93	9.69	-6.91	23.71	33.01
	1882.5	26365	Н	22.99	9.69	-6.91	25.77	33.01
16QAM	1010.0	06640	V	19.82	9.80	-6.96	22.66	33.01
RB: 1,0	1910.0	26640	Н	21.29	9.80	-6.96	24.13	33.01
LTE	1055.0	26000	V	21.33	9.61	-6.87	24.07	33.01
LTE	1855.0	26090	Н	23.00	9.61	-6.87	25.74	33.01
BAND 25	1000 5	OGOGE	V	20.71	9.73	-6.93	23.51	33.01
BW: 10M 16QAM - RB: 1,49	1882.5	26365	Н	22.56	9.73	-6.93	25.36	33.01
	1010.0	00040	V	18.87	9.84	-6.98	21.73	33.01
	1910.0	26640	Н	19.68	9.84	-6.98	22.54	33.01
Remark:	(1)The R	BW,VBW	of SPA for	frequency	RBW= 8M	Hz , VB	W= 8MF	lz

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	EUT				Measurem	ent			
Operation	Fundamental	СН	Antenna	S.G.	Antenna	Cable	EIRP	Limit	
Band	Frequency	011	Pol.	Output	Gain	Loss			
	MHz		V/H	dBm	dBi	dB	dBm	dBm	
LTE	1857.5	26115	V	20.45	9.57	-6.86	23.16	33.01	
BAND 25	1037.3	20113	Н	23.10	9.58	-6.86	25.82	33.01	
BW: 15M	1882.5	26365	V	20.98	9.68	-6.90	23.76	33.01	
QPSK	1002.5	20303	Н	23.11	9.68	-6.90	25.89	33.01	
RB: 1,0	1907.5	26615	V	21.73	9.78	-6.95	24.56	33.01	
ND. 1,0	1907.5	20013	Н	22.24	9.78	-6.95	25.07	33.01	
LTE	1857.5	26115	V	21.63	9.63	-6.88	24.38	33.01	
BAND 25	1007.5	20113	Н	22.89	9.63	-6.88	25.64	33.01	
BW: 15M QPSK RB: 1,74	1882.5	26265	V	20.96	9.74	-6.93	23.77	33.01	
	1002.5	20303	Н	22.23	9.74	-6.93	25.04	33.01	
	1907.5	26615	V	18.84	9.84	-6.98	21.70	33.01	
110. 1,74	1907.5	26365 26615 26115	Н	19.51	9.84	-6.98	22.37	33.01	
LTE	1857.5	26115	V	20.35	9.58	-6.86	23.07	33.01	
BAND 25	1037.3	20113	Н	23.41	9.57	-6.86	26.12	33.01	
BW: 15M	1882.5	26365	V	21.76	9.68	-6.90	24.54	33.01	
16QAM	1002.5	20303	Н	23.93	9.68	-6.90	26.71	33.01	
RB: 1,0	1907.5	26615	V	22.01	9.79	-6.95	24.85	33.01	
ים. ו,ט	1907.5	20013	Н	22.35	9.78	-6.95	25.18	33.01	
LTE	1957 5	26115	V	22.30	9.63	-6.88	25.05	33.01	
	1857.5	20113	Н	23.62	9.63	-6.88	26.37	33.01	
BAND 25 BW: 15M 16QAM RB: 1,74	1992 5	26365	V	21.39	9.73	-6.93	24.19	33.01	
	1882.5	20303	Н	22.60	9.74	-6.93	25.41	33.01	
	1007.5	26615	V	19.23	9.84	-6.98	22.09	33.01	
	1907.5	26615	Н	19.93	9.84	-6.98	22.79	33.01	
Remark: (1)The RBW,VBW of SPA for frequency RBW= 8MHz, VBW= 8MHz									

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	EUT				Measurem	ent		
Operation	Fundamental	СН	Antenna	S.G.	Antenna	Cable	EIRP	Limit
Band	Frequency		Pol.	Output	Gain	Loss		
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE	1860.0	26140	V	19.98	9.58	-6.86	22.70	33.01
BAND 25	1000.0	20140	Н	23.30	9.58	-6.86	26.02	33.01
BW: 20M	1882.5	26365	V	21.27	9.67	-6.90	24.04	33.01
QPSK	1002.5	20303	Н	23.46	9.67	-6.90	26.23	33.01
RB: 1,0	1905.0	26590	V	21.76	9.76	-6.94	24.58	33.01
nd. 1,0	1905.0	20390	Н	22.80	9.77	-6.94	25.63	33.01
LTE	1960.0	26140	V	20.07	9.65	-6.89	22.83	33.01
BAND 25	1860.0	26140	Н	23.55	9.65	-6.89	26.31	33.01
BW: 20M QPSK	1882.5	26365	V	20.84	9.75	-6.93	23.66	33.01
	1002.5	20303	Н	22.45	9.74	-6.93	25.26	33.01
	1905.0	26500	V	19.47	9.84	-6.98	22.33	33.01
RB: 1,99	1905.0	26590	Н	19.89	9.84	-6.98	22.75	33.01
LTE	1860.0	26140	V	20.58	9.57	-6.86	23.29	33.01
BAND 25	1000.0	20140	Н	23.56	9.58	-6.86	26.28	33.01
BW: 20M	1882.5	26365	V	21.86	9.67	-6.90	24.63	33.01
	1002.5	20303	Н	24.18	9.67	-6.90	26.95	33.01
16QAM RB: 1,0	1905.0	26590	V	21.79	9.77	-6.94	24.62	33.01
nd. 1,0	1905.0	20390	Н	23.55	9.76	-6.94	26.37	33.01
LTE	1960.0	26140	V	22.10	9.65	-6.89	24.86	33.01
LTE BAND 25	1860.0	26140	Н	24.02	9.65	-6.89	26.78	33.01
BAND 25	1000 5	26265	V	21.52	9.75	-6.93	24.34	33.01
BW: 20M 16QAM RB: 1,99	1882.5	26365	Н	22.97	9.74	-6.93	25.78	33.01
	1005.0	OCEOO	V	19.38	9.84	-6.98	22.24	33.01
	1905.0	26590	Н	20.29	9.84	-6.98	23.15	33.01
Remark:	(1)The RI	BW,VBW	of SPA for	frequency	RBW= 8M	lHz , VB	W= 8MF	lz

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	<u> </u>								
	EUT	1		T	Measurem				
Operation	Fundamental	СН	Antenna	S.G.	Antenna	Cable	ERP	Limit	
Band	Frequency	U	Pol.	Output	Gain	Loss			
	MHz		V/H	dBm	dBd	dB	dBm	dBm	
LTE	824.7	26797	V	17.73	5.14	-4.18	18.69	38.45	
BAND 26	024.1	20707	Н	23.88	5.14	-4.18	24.84	38.45	
BW: 1.4M	836.5	26915	V	18.68	5.10	-4.22	19.56	38.45	
QPSK	000.0	20313	Н	23.81	5.10	-4.22	24.69	38.45	
RB: 1,0	848.3	27033	V	16.76	5.06	-4.26	17.56	38.45	
110. 1,0	040.5	27000	Н	22.69	5.06	-4.26	23.49	38.45	
LTE	824.7	26797	V	17.31	5.13	-4.18	18.26	38.45	
BAND 26	024.7	20191	Н	23.38	5.13	-4.18	24.33	38.45	
BW: 1.4M	836.5	26915	V	18.45	5.10	-4.23	19.32	38.45	
QPSK - RB: 1,5	030.3	20913	Н	23.69	5.10	-4.23	24.56	38.45	
	848.3	27033	V	16.27	5.06	-4.26	17.07	38.45	
הט. ו,ט	040.3	27033	Н	22.28	5.06	-4.26	23.08	38.45	
LTE	824.7	26797	V	17.72	5.14	-4.18	18.68	38.45	
BAND 26	024.7	20191	Н	23.89	5.14	-4.18	24.85	38.45	
BW: 1.4M	836.5	26915	V	18.77	5.10	-4.22	19.65	38.45	
16QAM	000.0	20913	Н	24.01	5.10	-4.22	24.89	38.45	
RB: 1,0	848.3	27033	V	16.83	5.06	-4.26	17.63	38.45	
η υ. 1,0	040.3	27033	Н	22.79	5.06	-4.26	23.59	38.45	
LTE	824.7	26797	V	17.35	5.13	-4.18	18.30	38.45	
	024.7	20/9/	Н	23.41	5.13	-4.18	24.36	38.45	
BAND 26 BW: 1.4M 16QAM RB: 1,5	836.5	26915	V	18.46	5.09	-4.23	19.32	38.45	
	000.0	20313	Н	23.64	5.10	-4.22	24.52	38.45	
	848.3 27033 -	V	16.30	5.06	-4.26	17.10	38.45		
	U 1 0.3	21000	Н	22.35	5.06	-4.27	23.14	38.45	
Remark: A for frequency RBW= 8MHz, VBW= 8MHz									

· ioi irequericy RBW= : BIVI HZ , VBVV

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	EUT				Моссиком	nont.		
Operation		l	Antonno	S.G.	Measurem	ī		
Operation	Fundamental	СН	Antenna		Antenna	Cable	ERP	Limit
Band	Frequency		Pol.	Output	Gain	Loss	dD:	dD:ss
	MHz		V/H	dBm	dBd	dB	dBm	dBm
LTE	825.5	26805	V	17.59	5.14	-4.18	18.55	38.45
BAND 26			Н	23.68	5.14	-4.18	24.64	38.45
BW: 3M	836.5	26915	V	18.48	5.10	-4.22	19.36	38.45
QPSK			Н	23.77	5.10	-4.22	24.65	38.45
RB: 1,0	847.5	27025	V	17.34	5.06	-4.26	18.14	38.45
110. 1,0	047.0	27025	Н	23.18	5.06	-4.26	23.98	38.45
LTE	825.5	26805	V	16.79	5.13	-4.19	17.73	38.45
BAND 26	023.3	20003	Н	22.67	5.13	-4.19	23.61	38.45
BW: 3M	926 5	26015	V	17.99	5.09	-4.23	18.85	38.45
QPSK	836.5	26915	Н	23.24	5.09	-4.23	24.10	38.45
	047.5	07005	V	16.21	5.06	-4.27	17.00	38.45
RB: 1,14	847.5	27025	Н	22.34	5.06	-4.26	23.14	38.45
LTE	005.5	00005	V	17.55	5.14	-4.18	18.51	38.45
LTE	825.5	26805	Н	23.65	5.14	-4.18	24.61	38.45
BAND 26	000 5	00015	V	18.66	5.10	-4.22	19.54	38.45
BW: 3M	836.5	26915	Н	23.90	5.10	-4.22	24.78	38.45
16QAM	0.47.5	07005	V	17.25	5.07	-4.25	18.07	38.45
RB: 1,0	847.5	27025	Н	23.20	5.06	-4.26	24.00	38.45
	005.5	00005	V	16.83	5.13	-4.19	17.77	38.45
LTE	825.5	26805	Н	22.67	5.13	-4.19	23.61	38.45
BAND 26	000 5	00045	V	18.03	5.09	-4.23	18.89	38.45
BW: 3M 16QAM RB: 1,14	836.5	26915	Н	23.10	5.09	-4.23	23.96	38.45
	0.47-7	07005	V	16.34	5.06	-4.26	17.14	38.45
	847.5	27025	Н	22.48	5.06	-4.26	23.28	38.45
Remark :	(1)The RI	BW,VBW	of SPA for	frequency	/ RBW= 8M	Hz , VB	W= 8MF	lz

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			1					
	EUT	ī			Measurem		ı	
Operation	Fundamental	СН	Antenna	S.G.	Antenna	Cable	ERP	Limit
Band	Frequency		Pol.	Output	Gain	Loss		
	MHz		V/H	dBm	dBd	dB	dBm	dBm
LTE	826.5	26815	V	17.63	5.14	-4.18	18.59	38.45
BAND 26	020.5	20013	Н	23.69	5.14	-4.18	24.65	38.45
BW: 5M	836.5	26915	V	14.92	5.11	-4.21	15.82	38.45
QPSK	030.5	20913	Н	23.71	5.10	-4.22	24.59	38.45
RB: 1,0	846.5	27015	V	14.08	5.07	-4.25	14.90	38.45
חט. ו,ט	040.5	27013	Н	23.00	5.07	-4.25	23.82	38.45
LTE	826.5	26815	V	16.82	5.13	-4.19	17.76	38.45
BAND 26	020.5	20013	Н	22.41	5.12	-4.20	23.33	38.45
	926 5	26015	V	14.50	5.09	-4.23	15.36	38.45
BW: 5M QPSK	836.5	26915	Н	23.14	5.09	-4.23	24.00	38.45
	946 E	27015	V	12.94	5.06	-4.26	13.74	38.45
RB: 1,24	846.5	27015	Н	22.30	5.06	-4.26	23.10	38.45
LTE	906 F	06015	V	17.67	5.14	-4.18	18.63	38.45
BAND 26	826.5	26815	Н	23.75	5.14	-4.18	24.71	38.45
BW: 5M	926 5	26015	V	15.21	5.10	-4.22	16.09	38.45
	836.5	26915	Н	23.82	5.10	-4.22	24.70	38.45
16QAM RB: 1,0	946 E	27015	V	14.11	5.07	-4.25	14.93	38.45
nd. 1,0	846.5	27015	Н	23.01	5.07	-4.25	23.83	38.45
ITE	906 5	26015	V	16.82	5.12	-4.20	17.74	38.45
LTE	826.5	26815	Н	22.49	5.12	-4.19	23.42	38.45
BAND 26 BW: 5M 16QAM RB: 1,24	926 E	26015	V	14.45	5.09	-4.23	15.31	38.45
	836.5	26915	Н	23.10	5.09	-4.23	23.96	38.45
	946 5	07045	V	13.15	5.06	-4.26	13.95	38.45
	846.5	27015	Н	22.54	5.06	-4.26	23.34	38.45
Remark:	(1)The RI	BW,VBW	of SPA for	frequency	RBW= 8M	Hz , VB	W= 8MF	lz

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	EUT				Measurem	ont		
Operation	Fundamental	l	Antenna	S.G.	Antenna	Cable		
Band		СН	Pol.	Output	Gain	Loss	ERP	Limit
Dailu	Frequency MHz		V/H	dBm	dBd	dB	dBm	dBm
	IVITIZ		V/Π \/					
LTE	829.0	26840	·	17.47	5.13	-4.18	18.42	38.45
BAND 26			Н	23.49	5.14	-4.18	24.45	38.45
BW: 10M	836.5	26915	V	17.95	5.11	-4.21	18.85	38.45
QPSK			Н	23.40	5.11	-4.21	24.30	38.45
RB: 1,0	844.0	26990	V	17.67	5.09	-4.24	18.52	38.45
			Н	22.94	5.08	-4.24	23.78	38.45
LTE	829.0	26840	V	18.21	5.11	-4.21	19.11	38.45
BAND 26	020.0	20040	Н	23.55	5.11	-4.21	24.45	38.45
BW: 10M	836.5	26915	V	17.43	5.08	-4.24	18.27	38.45
QPSK RB: 1,49	030.5	20915	Н	22.71	5.08	-4.24	23.55	38.45
	944.0	26000	V	16.27	5.06	-4.26	17.07	38.45
	844.0	26990	Н	22.34	5.06	-4.26	23.14	38.45
175	000.0	00040	V	15.82	5.14	-4.18	16.78	38.45
LTE	829.0	26840	Н	23.47	5.14	-4.18	24.43	38.45
BAND 26	996 F	00015	V	18.01	5.11	-4.21	18.91	38.45
BW: 10M	836.5	26915	Н	23.44	5.11	-4.21	24.34	38.45
16QAM	044.0	00000	V	17.64	5.09	-4.24	18.49	38.45
RB: 1,0	844.0	26990	Н	22.92	5.09	-4.24	23.77	38.45
1.75	000.0	00040	V	18.33	5.11	-4.21	19.23	38.45
LTE	829.0	26840	Н	23.80	5.11	-4.21	24.70	38.45
BAND 26	000 5	00045	V	17.51	5.08	-4.24	18.35	38.45
BW: 10M 16QAM RB: 1,49	836.5	26915	Н	22.76	5.08	-4.24	23.60	38.45
	044.0	00000	V	16.49	5.06	-4.26	17.29	38.45
	844.0	26990	Н	22.59	5.06	-4.26	23.39	38.45
Remark :	(1)The RI	BW,VBW	of SPA for	frequency	RBW= 8M	Hz , VB	W= 8MF	lz

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	EUT				Measurem	ent		
Operation	Fundamental	СН	Antenna	S.G.	Antenna	Cable	ERP	Limit
Band	Frequency		Pol.	Output	Gain	Loss		
	MHz		V/H	dBm	dBd	dB	dBm	dBm
LTE	831.5	26865	V	17.32	5.13	-4.18	18.27	38.45
BAND 26	031.3	20003	Н	23.31	5.14	-4.18	24.27	38.45
BW: 15M	836.5	26915	V	17.10	5.12	-4.20	18.02	38.45
QPSK	030.3	20913	Н	22.67	5.12	-4.20	23.59	38.45
RB: 1,0	841.5	26965	V	18.21	5.10	-4.22	19.09	38.45
חט. ו,ט	041.5	20905	Н	23.58	5.10	-4.22	24.46	38.45
LTE	831.5	26865	V	17.67	5.09	-4.23	18.53	38.45
BAND 26	031.3	20003	Н	22.92	5.09	-4.23	23.78	38.45
BW: 15M	836.5	26915	V	17.06	5.07	-4.25	17.88	38.45
QPSK RB: 1,74	030.5	20913	Н	22.48	5.08	-4.25	23.31	38.45
	841.5	26065	V	16.25	5.06	-4.26	17.05	38.45
	041.5	26965	Н	22.35	5.06	-4.26	23.15	38.45
LTE	831.5	26865	V	17.35	5.13	-4.18	18.30	38.45
BAND 26	001.0	20003	Н	23.34	5.14	-4.18	24.30	38.45
BW: 15M	836.5	26915	V	17.09	5.12	-4.20	18.01	38.45
16QAM	030.3	20913	Н	22.73	5.12	-4.20	23.65	38.45
RB: 1,0	841.5	26965	V	18.21	5.10	-4.22	19.09	38.45
nd. 1,0	041.5	20905	Н	23.53	5.10	-4.22	24.41	38.45
LTE	831.5	26865	V	17.65	5.09	-4.23	18.51	38.45
BAND 26	031.3	20003	Н	22.84	5.09	-4.23	23.70	38.45
	836.5	26915	V	17.29	5.07	-4.25	18.11	38.45
BW: 15M 16QAM - RB: 1,74	000.0	20313	Н	22.72	5.08	-4.25	23.55	38.45
	841.5	26965	V	16.45	5.06	-4.26	17.25	38.45
	041.0	20303	Н	22.45	5.06	-4.26	23.25	38.45
Remark:	(1)The RI	BW,VBW	of SPA for	frequency	RBW= 8M	lHz , VB	W=8MF	lz

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	EUT				Measurem	ent		
Operation	Fundamental		Antenna	S.G.	Antenna	Cable		
Band	Frequency	СН	Pol.	Output	Gain	Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
		00007	V	16.04	5.17	-4.14	17.07	50.00
LTE	814.7	26697	Н	23.39	5.17	-4.14	24.42	50.00
BAND 26	040.0	00740	V	17.58	5.16	-4.16	18.58	50.00
BW: 1.4M	819.0	26740	Н	24.25	5.16	-4.16	25.25	50.00
QPSK	000.0	00700	V	17.91	5.14	-4.17	18.88	50.00
RB: 1,0	823.3	26783	Н	24.18	5.14	-4.17	25.15	50.00
LTE	0147	26607	V	16.19	5.17	-4.15	17.21	50.00
	814.7	26697	Н	23.36	5.17	-4.14	24.39	50.00
BAND 26 BW: 1.4M	819.0	26740	V	17.93	5.15	-4.16	18.92	50.00
QPSK RB: 1,5	019.0	20740	Н	24.42	5.15	-4.16	25.41	50.00
	823.3	26792	V	17.87	5.14	-4.18	18.83	50.00
	023.3	26783	Н	23.98	5.14	-4.18	24.94	50.00
LTE	814.7	26697	V	16.15	5.17	-4.14	17.18	50.00
BAND 26	014.7	20097	Н	23.45	5.17	-4.14	24.48	50.00
BW: 1.4M	819.0	26740	V	17.59	5.16	-4.16	18.59	50.00
16QAM	019.0	20740	Н	24.30	5.16	-4.15	25.31	50.00
RB: 1,0	823.3	26783	V	17.91	5.14	-4.17	18.88	50.00
110. 1,0	020.0	20703	Н	24.17	5.14	-4.18	25.13	50.00
LTE	814.7	26697	V	16.23	5.17	-4.15	17.25	50.00
BAND 26	014.7	20031	Н	23.35	5.17	-4.15	24.37	50.00
	819.0	26740	V	18.05	5.15	-4.16	19.04	50.00
BW: 1.4M 16QAM - RB: 1,5	013.0	20170	Н	24.56	5.15	-4.16	25.55	50.00
	823.3	26783	V	17.91	5.14	-4.18	18.87	50.00
	020.0	20700	Н	24.02	5.14	-4.18	24.98	50.00
Remark:	(1)The R	BW,VBW	of SPA for	frequency	RBW= 8M	Hz , VB	W= 8MF	z

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	EUT				Measur	ement		
Operatio n Band	Fundamenta I Frequency	СН	Antenn a Pol.	S.G. Output	Anten na Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
ıte	045.5	00705	V	16.06	5.17	-4.14	17.09	50.00
LTE	815.5	26705	Н	20.56	5.17	-4.14	21.59	50.00
BAND 26 BW: 3M	910.0	26740	V	17.44	5.16	-4.15	18.45	50.00
QPSK	819.0	26740	Н	15.75	5.16	-4.15	16.76	50.00
RB: 1,0	822.5	26775	V	17.84	5.15	-4.16	18.83	50.00
110. 1,0	022.5	20773	Н	24.25	5.15	-4.16	25.24	50.00
LTE	815.5	26705	V	16.68	5.16	-4.15	17.69	50.00
BAND 26	013.3	20703	Н	23.54	5.16	-4.15	24.55	50.00
BW: 3M QPSK	819.0	26740	V	17.78	5.15	-4.16	18.77	50.00
	019.0		Н	24.29	5.15	-4.16	25.28	50.00
RB: 1,14	822.5	26775	V	17.70	5.14	-4.18	18.66	50.00
110. 1,14	OZZ.O	20113	Н	23.76	5.14	-4.18	24.72	50.00
LTE	815.5	26705	V	16.16	5.17	-4.14	17.19	50.00
BAND 26	010.0	20703	Н	23.49	5.17	-4.14	24.52	50.00
BW: 3M	819.0	26740	V	17.44	5.16	-4.15	18.45	50.00
16QAM	010.0	20740	Н	24.22	5.16	-4.15	25.23	50.00
RB: 1,0	822.5	26775	V	17.99	5.14	-4.17	18.96	50.00
110. 1,0	022.0	20110	Н	24.22	5.15	-4.16	25.21	50.00
LTE	815.5	26705	V	16.60	5.16	-4.15	17.61	50.00
BAND 26	010.0	20700	Н	23.63	5.16	-4.15	24.64	50.00
	819.0	26740	V	17.87	5.15	-4.16	18.86	50.00
BW: 3M 16QAM	010.0	20770	Н	24.40	5.15	-4.16	25.39	50.00
RB: 1,14	822.5	26775	V	17.64	5.14	-4.18	18.60	50.00
Remark	022.0		Н	23.75	5.14	-4.18	24.71	50.00

Remark

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

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	CUT				Мосолись			
Onevetien	EUT	1	Antonno	1	Measurem		Γ	
Operation	Fundamental	СН	Antenna	S.G.	Antenna	Cable	ERP	Limit
Band	Frequency		Pol.	Output	Gain	Loss		
	MHz		V/H	dBm	dBd	dB	dBm	dBm
LTE	816.5	26715	V	9.27	5.17	-4.14	10.30	50.00
BAND 26			Н	23.39	5.17	-4.14	24.42	50.00
BW: 5M	819.0	26740	V	16.95	5.16	-4.15	17.96	50.00
QPSK	0.0.0	207.10	Н	23.83	5.16	-4.15	24.84	50.00
RB: 1,0	821.5	26765	V	17.77	5.15	-4.16	18.76	50.00
110. 1,0	021.0	20703	Н	24.32	5.16	-4.16	25.32	50.00
LTE	816.5	26715	V	17.53	5.16	-4.16	18.53	50.00
BAND 26	010.5	20713	Н	24.06	5.16	-4.16	25.06	50.00
BW: 5M	819.0	26740	V	17.79	5.15	-4.17	18.77	50.00
QPSK	019.0	20740	Н	24.18	5.15	-4.17	25.16	50.00
	821.5	26765	V	17.65	5.14	-4.18	18.61	50.00
RB: 1,24	021.3	20703	Н	23.76	5.14	-4.17	24.73	50.00
LTE	016 5	06715	V	16.19	5.17	-4.14	17.22	50.00
LTE	816.5	26715	Н	23.46	5.17	-4.14	24.49	50.00
BAND 26	010.0	06740	V	16.94	5.16	-4.15	17.95	50.00
BW: 5M	819.0	26740	Н	23.86	5.16	-4.15	24.87	50.00
16QAM	001.5	00705	V	18.24	5.16	-4.15	19.25	50.00
RB: 1,0	821.5	26765	Н	24.51	5.15	-4.16	25.50	50.00
1.75	010 5	00745	V	17.58	5.16	-4.16	18.58	50.00
LTE	816.5	26715	Н	24.21	5.16	-4.15	25.22	50.00
BAND 26	040.0	00740	V	17.86	5.15	-4.16	18.85	50.00
BW: 5M	819.0	26740	Н	24.37	5.15	-4.17	25.35	50.00
16QAM - RB: 1,24	004.5	00705	V	17.65	5.14	-4.17	18.62	50.00
	821.5	26765	Н	23.80	5.14	-4.17	24.77	50.00
Remark :	(1)The RI	BW,VBW	of SPA for	frequency	/ RBW= 8M	Hz , VB	W= 8MF	lz

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	EUT				Measurem	nent		
Operation	Fundamental	СН	Antenna	S.G.	Antenna	Cable	ERP	Limit
Band	Frequency		Pol.	Output	Gain	Loss		Lillic
LTE								
BAND 26	MHz		V/H	dBm	dBd	dB	dBm	dBm
BW: 10M								
QPSK	819.0	26740	V	15.75	5.17	-4.14	16.78	50.00
RB: 1,0	019.0	20740	Н	22.94	5.17	-4.14	23.97	50.00
QPSK	819.0	26740	V	17.56	5.14	-4.17	18.53	50.00
RB: 1,49	013.0	20740	Н	23.62	5.14	-4.17	24.59	50.00
16QAM	819.0	26740	V	15.73	5.17	-4.14	16.76	50.00
RB: 1,0	013.0	20740	Н	22.91	5.17	-4.14	23.94	50.00
16QAM	819.0	26740	V	17.49	5.14	-4.17	18.46	50.00
RB: 1,49	018.0	20740	Н	23.63	5.14	-4.17	24.60	50.00
Remark:	Remark: (1)The RBW,VBW of SPA for frequency RBW= 8MHz, VBW= 8MHz							

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	EUT				Measurem	ent		
Operation Band	Fundamental Frequency	СН	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
LTE	0007.5	07605	V	20.14	10.51	-7.59	23.06	24.00
LTE	2307.5	27685	Н	12.01	10.51	-7.59	14.93	24.00
BAND 30 BW: 5M	2310.0	27710	V	20.30	10.51	-7.59	23.22	24.00
QPSK	2310.0	27710	Н	12.39	10.51	-7.59	15.31	24.00
RB: 1,0	2312.5	27735	V	20.05	10.51	-7.59	22.97	24.00
110. 1,0	2012.3	21100	Н	11.78	10.51	-7.59	14.70	24.00
LTE	2307.5	27685	V	20.43	10.51	-7.59	23.35	24.00
BAND 30	2007.5	27005	Н	12.05	10.51	-7.59	14.97	24.00
BW: 5M	2310.0	27710	V	19.66	10.51	-7.60	22.57	24.00
QPSK	2010.0	27710	Н	11.40	10.51	-7.60	14.31	24.00
RB: 1,24	2312.5	27735	V	19.13	10.51	-7.60	22.04	24.00
110. 1,24	2012.0	21100	Н	10.68	10.51	-7.60	13.59	24.00
LTE	2307.5	27685	V	20.13	10.51	-7.59	23.05	24.00
BAND 30	2007.5	27000	Н	12.13	10.51	-7.59	15.05	24.00
BW: 5M	2310.0	27710	V	20.38	10.51	-7.59	23.30	24.00
16QAM	2010.0	27710	Н	12.58	10.51	-7.59	15.50	24.00
RB: 1,0	2312.5	27735	V	20.14	10.51	-7.59	23.06	24.00
110. 1,0	2012.0	21100	Н	11.90	10.51	-7.59	14.82	24.00
ITE	2307.5	27685	V	20.43	10.51	-7.59	23.35	24.00
LTE BAND 30 - BW: 5M 16QAM - RB: 1,24	2007.0	27000	Н	12.05	10.51	-7.59	14.97	24.00
	2310.0	27710	V	19.76	10.51	-7.60	22.67	24.00
	2010.0	27710	Н	11.48	10.51	-7.60	14.39	24.00
	2312.5 2773	27735	V	19.21	10.51	-7.60	22.12	24.00
110.1,27	2012.0	21100	Н	10.77	10.51	-7.60	13.68	24.00

Remark:

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

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	EUT				Measurem	ent		
Operation Band	Fundamental Frequency	СН	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
LTE BAND 30	2310.0	27710	V	19.84	10.51	-7.59	22.76	24.00
BW: 10M QPSK	2310.0	27710	Н	12.34	10.51	-7.59	15.26	24.00
LTE BAND 30	2310.0	27710	V	19.12	10.51	-7.6	22.03	24.00
BW: 10M QPSK	2310.0	27710	Н	10.87	10.51	-7.6	13.78	24.00
LTE BAND 30	2310.0	27710	V	19.99	10.51	-7.59	22.91	24.00
BW: 10M 16QAM	2310.0	27710	Н	12.34	10.51	-7.59	15.26	24.00
LTE BAND 30	2310.0 27710	27710	V	19.16	10.51	-7.6	22.07	24.00
BW: 10M 16QAM		21110	Н	10.77	10.51	-7.6	13.68	24.00

Remark:

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

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	CUT				Maggiran	nont.		
Oneveller	EUT	1	Antono		Measurem		Γ	
Operation	Fundamental	СН	Antenna	S.G.	Antenna	Cable	EIRP	Limit
Band	Frequency		Pol.	Output	Gain	Loss		
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE	2572.5	37775	V	13.20	10.78	-7.91	16.07	33.00
BAND 38			Н	12.91	10.78	-7.91	15.78	33.00
BW: 5M	2595.0	38000	V	14.15	10.81	-7.93	17.03	33.00
QPSK	2000.0	00000	Н	15.75	10.81	-7.93	18.63	33.00
RB: 1,0	2617.5	38225	V	12.60	10.84	-7.95	15.49	33.00
110. 1,0	2017.0	00220	Н	15.67	10.84	-7.95	18.56	33.00
LTE	2572.5	37775	V	13.52	10.79	-7.91	16.40	33.00
BAND 38	2372.3	07773	Н	13.89	10.79	-7.91	16.77	33.00
BW: 5M	2595.0	38000	V	13.49	10.82	-7.94	16.37	33.00
QPSK	2595.0		Н	15.48	10.81	-7.93	18.36	33.00
	2617.5	20225	V	12.08	10.84	-7.96	14.96	33.00
RB: 1,24	2017.5	38225	Н	15.91	10.84	-7.96	18.79	33.00
LTE	2572.5	27775	V	12.71	10.78	-7.91	15.58	33.00
BAND 38	2572.5	37775	Н	12.36	10.78	-7.91	15.23	33.00
	2505.0	38000	V	13.73	10.81	-7.93	16.61	33.00
BW: 5M	2595.0	30000	Н	15.26	10.81	-7.93	18.14	33.00
16QAM	2617.5	20225	V	12.11	10.84	-7.96	14.99	33.00
RB: 1,0	2017.5	38225	Н	15.23	10.84	-7.96	18.11	33.00
LTE	0570 5	27775	V	12.90	10.79	-7.91	15.78	33.00
LTE	2572.5	37775	Н	13.22	10.79	-7.91	16.10	33.00
BAND 38	2505.0	20000	V	12.83	10.82	-7.94	15.71	33.00
BW: 5M 16QAM RB: 1,24	2595.0	38000	Н	14.19	10.82	-7.94	17.07	33.00
	0017.5	20005	V	11.75	10.84	-7.96	14.63	33.00
	2617.5	38225	Н	15.34	10.84	-7.96	18.22	33.00
Remark :	(1)The R	BW,VBW	of SPA for	frequency	RBW= 8M	Hz , VB	W= 8MF	łz

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			1					
	EUT				Measurem	ent		
Operation	Fundamental	СН	Antenna	S.G.	Antenna	Cable	EIRP	Limit
Band	Frequency		Pol.	Output	Gain	Loss		
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE	2575.0	37800	V	13.23	10.78	-7.91	16.10	33.00
BAND 38	2575.0	37000	Н	13.13	10.78	-7.91	16.00	33.00
BW: 10M	2595.0	38000	V	14.58	10.81	-7.93	17.46	33.00
QPSK	2393.0	30000	Н	14.75	10.81	-7.93	17.63	33.00
RB: 1,0	2615.0	38200	V	13.46	10.83	-7.95	16.34	33.00
ND. 1,0	2015.0	30200	Н	16.16	10.83	-7.95	19.04	33.00
LTE	2575.0	37800	V	13.48	10.80	-7.92	16.36	33.00
BAND 38	2575.0	37600	Н	14.96	10.79	-7.92	17.83	33.00
	2505.0	38000	V	14.81	10.82	-7.94	17.69	33.00
BW: 10M QPSK	2595.0	30000	Н	15.11	10.82	-7.94	17.99	33.00
	2615.0	38200	V	11.81	10.84	-7.96	14.69	33.00
RB: 1,49	2015.0	30200	Н	15.71	10.84	-7.96	18.59	33.00
LTE	2575.0	37800	V	13.43	10.78	-7.91	16.30	33.00
BAND 38	2373.0	37000	Н	13.08	10.78	-7.91	15.95	33.00
BW: 10M	2595.0	38000	V	13.94	10.81	-7.93	16.82	33.00
16QAM	2393.0	30000	Н	14.75	10.81	-7.93	17.63	33.00
RB: 1,0	2615.0	38200	V	13.04	10.83	-7.95	15.92	33.00
ηυ. 1,0	2013.0	30200	Н	15.62	10.83	-7.95	18.50	33.00
LTE	2575.0	37800	V	13.49	10.79	-7.92	16.36	33.00
BAND 38	2373.0	37800	Н	14.39	10.80	-7.92	17.27	33.00
	2595.0	38000	V	15.03	10.82	-7.94	17.91	33.00
BW: 10M 16QAM RB: 1,49	2090.0	30000	Н	15.17	10.82	-7.94	18.05	33.00
	0615.0	38300	V	11.41	10.84	-7.96	14.29	33.00
	2615.0	38200	Н	15.14	10.84	-7.96	18.02	33.00
Remark:	(1)The R	BW,VBW	of SPA for	frequency	RBW= 8M	IHz , VB	W= 8MF	lz

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	EUT				Measurem	ent		
Operation	Fundamental	СН	Antenna	S.G.	Antenna	Cable	EIRP	Limit
Band	Frequency		Pol.	Output	Gain	Loss		
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE	2577.5	37825	V	13.23	10.78	-7.91	16.10	33.00
BAND 38	2311.3	37023	Н	12.48	10.78	-7.91	15.35	33.00
BW: 15M	2595.0	38000	V	14.09	10.81	-7.93	16.97	33.00
QPSK	2393.0	30000	Н	14.59	10.81	-7.93	17.47	33.00
RB: 1,0	2612.5	38175	V	14.50	10.83	-7.95	17.38	33.00
ND. 1,0	2012.5	30173	Н	15.35	10.83	-7.95	18.23	33.00
LTE	2577.5	37825	V	13.30	10.80	-7.92	16.18	33.00
BAND 38	2511.5	3/023	Н	14.23	10.80	-7.92	17.11	33.00
	2505.0	38000	V	14.36	10.82	-7.94	17.24	33.00
BW: 15M QPSK RB: 1,74	2595.0	30000	Н	14.77	10.82	-7.94	17.65	33.00
	2612.5	38175	V	11.86	10.84	-7.96	14.74	33.00
ND. 1,14	2012.5	30173	Н	15.38	10.84	-7.96	18.26	33.00
LTE	2577.5	27925	V	12.67	10.79	-7.91	15.55	33.00
BAND 38	2511.5	37825	Н	11.55	10.79	-7.91	14.43	33.00
BW: 15M	2595.0	38000	V	13.12	10.81	-7.93	16.00	33.00
16QAM	2393.0	30000	Н	13.98	10.81	-7.93	16.86	33.00
RB: 1,0	2612.5	38175	V	14.77	10.83	-7.95	17.65	33.00
no. 1,0	2012.5	30173	Н	14.98	10.83	-7.95	17.86	33.00
LTE	2577.5	37825	V	12.81	10.80	-7.92	15.69	33.00
BAND 38	2011.0	01020	Н	13.82	10.80	-7.92	16.70	33.00
	2595.0	38000	V	13.86	10.82	-7.94	16.74	33.00
BW: 15M	2090.0	30000	Н	14.23	10.82	-7.94	17.11	33.00
16QAM	0610.5	20175	V	12.05	10.84	-7.96	14.93	33.00
RB: 1,74	2612.5	38175	Н					33.00
Remark:	(1)The R	BW,VBW	of SPA for	frequency	y RBW= 8M	IHz , VB	W= 8MF	lz

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	CUT				Magaire	nont.		
On aval!an	EUT	ı	Antono	_	Measurem		Γ	ı
Operation	Fundamental	СН	Antenna	S.G.	Antenna	Cable	EIRP	Limit
Band	Frequency		Pol.	Output	Gain	Loss		
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE	2580.0	37850	V	13.86	10.80	-7.92	16.74	33.00
BAND 38			Н	14.77	10.80	-7.93	17.64	33.00
BW: 20M	2595.0	38000	V	13.66	10.80	-7.92	16.54	33.00
QPSK	2000.0	3333	Н	15.22	10.80	-7.92	18.10	33.00
RB: 1,0	2610.0	38150	V	14.84	10.82	-7.94	17.72	33.00
110. 1,0	2010.0	00100	Н	15.32	10.82	-7.94	18.20	33.00
LTE	2580.0	37850	V	14.54	10.82	-7.94	17.42	33.00
BAND 38	2300.0	07030	Н	15.04	10.82	-7.94	17.92	33.00
BW: 20M	2595.0	38000	V	14.15	10.82	-7.94	17.03	33.00
	2595.0	36000	Н	15.21	10.82	-7.94	18.09	33.00
QPSK	0610.0	20150	V	12.56	10.84	-7.96	15.44	33.00
RB: 1,99	2610.0	38150	Н	15.78	10.84	-7.96	18.66	33.00
LTE	0500.0	07050	V	13.41	10.80	-7.92	16.29	33.00
LTE	2580.0	37850	Н	14.46	10.80	-7.92	17.34	33.00
BAND 38	0505.0	20000	V	13.19	10.80	-7.92	16.07	33.00
BW: 20M	2595.0	38000	Н	14.65	10.80	-7.92	17.53	33.00
16QAM	0010.0	00150	V	14.39	10.82	-7.94	17.27	33.00
RB: 1,0	2610.0	38150	Н	14.91	10.82	-7.94	17.79	33.00
	0500.0	07050	V	14.17	10.82	-7.94	17.05	33.00
LTE	2580.0	37850	Н	14.65	10.83	-7.94	17.54	33.00
BAND 38	0505.0	00000	V	13.74	10.83	-7.94	16.63	33.00
BW: 20M 16QAM RB: 1,99	2595.0	38000	Н	14.75	10.83	-7.94	17.64	33.00
	2610.0 38	00450	V	12.14	10.84	-7.96	15.02	33.00
		38150	Н	15.32	10.84	-7.96	18.20	33.00
Remark :	(1)The R	BW,VBW	of SPA for		y RBW= 8M	Hz , VB		lz

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			ı					
	EUT				Measurem	ent		
Operation	Fundamental	СН	Antenna	S.G.	Antenna	Cable	EIRP	Limit
Band	Frequency		Pol.	Output	Gain	Loss	— 11111	
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE	2498.5	39675	V	12.42	10.70	-7.83	15.29	33.00
BAND 41	2490.5	39073	Н	8.72	10.70	-7.83	11.59	33.00
BW: 5M	2593.0	40620	V	14.59	10.81	-7.93	17.47	33.00
QPSK	2393.0	40020	Н	15.27	10.81	-7.93	18.15	33.00
RB: 1,0	2687.5	41565	V	6.11	10.92	-8.03	9.00	33.00
ים. ו,ט	2007.3	41303	Н	13.84	10.92	-8.03	16.73	33.00
LTE	2498.5	39675	V	11.40	10.70	-7.83	14.27	33.00
	2490.5	39073	Н	7.81	10.70	-7.83	10.68	33.00
BAND 41 BW: 5M 25	2593.0	40620	V	14.66	10.81	-7.93	17.54	33.00
QPSK	2393.0	40020	Н	15.57	10.81	-7.94	18.44	33.00
RB: 1,24	2687.5	41565	V	6.81	10.93	-8.03	9.71	33.00
110. 1,24	2007.3	41303	Н	13.13	10.93	-8.03	16.03	33.00
LTE	2498.5	39675	V	12.07	10.70	-7.83	14.94	33.00
BAND 41	2490.5	39073	Н	8.42	10.70	-7.83	11.29	33.00
BW: 5M	2593.0	40620	V	14.54	10.81	-7.93	17.42	33.00
16QAM	2393.0	40020	Н	15.44	10.81	-7.93	18.32	33.00
RB: 1,0	2687.5	41565	V	6.09	10.92	-8.03	8.98	33.00
ים. ו,ט	2007.3	41303	Н	13.84	10.92	-8.03	16.73	33.00
LTE	2498.5	39675	V	12.17	10.70	-7.83	15.04	33.00
BAND 41	2490.5	03073	Н	8.68	10.70	-7.83	11.55	33.00
	2593.0	40620	V	14.65	10.81	-7.93	17.53	33.00
BW: 5M 16QAM - RB: 1,24	2330.0	40020	Н	15.70	10.81	-7.93	18.58	33.00
	2687.5	41565	V	6.33	10.93	-8.03	9.23	33.00
110. 1,44	2007.5	41303	Н	10.03	10.93	-8.03	12.93	33.00
Remark:	(1)The R	BW,VBW	of SPA for	frequency	y RBW= 8M	IHz , VB	W= 8MF	łz

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	EUT	_			Measurem	ent		
Operation	Fundamental	СН	Antenna	S.G.	Antenna	Cable	EIRP	Limit
Band	Frequency		Pol.	Output	Gain	Loss		
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE	2501.0	39700	V	18.46	10.70	-7.83	21.33	33.00
BAND 41	2301.0	39700	Н	12.02	10.70	-7.83	14.89	33.00
BW: 10M	2593.0	40620	V	14.67	10.81	-7.93	17.55	33.00
QPSK	2595.0	40020	Н	14.78	10.81	-7.93	17.66	33.00
	2685.0	41540	V	9.29	10.92	-8.02	12.19	33.00
RB: 1,0	2005.0	41340	Н	8.42	10.92	-8.02	11.32	33.00
LTE	2501.0	39700	V	18.88	10.71	-7.84	21.75	33.00
	2501.0	39700	Н	12.33	10.71	-7.84	15.20	33.00
BAND 41 BW: 10M	0500.0	40620	V	13.81	10.82	-7.94	16.69	33.00
QPSK	2593.0	40620	Н	13.96	10.82	-7.94	16.84	33.00
RB: 1,49	2685.0	41540	V	10.40	10.93	-8.03	13.30	33.00
ND. 1,49	2005.0	41340	Н	6.89	10.93	-8.03	9.79	33.00
LTE	2501.0	39700	V	15.26	10.70	-7.83	18.13	33.00
BAND 41	2501.0	39700	Н	12.01	10.70	-7.83	14.88	33.00
BW: 10M	2593.0	40620	V	14.60	10.81	-7.93	17.48	33.00
16QAM	2595.0	40020	Н	14.89	10.81	-7.93	17.77	33.00
RB: 1,0	2685.0	41540	V	9.56	10.92	-8.02	12.46	33.00
110. 1,0	2003.0	41340	Н	8.56	10.92	-8.02	11.46	33.00
LTE	2501.0	39700	V	15.54	10.71	-7.84	18.41	33.00
BAND 41	2501.0	39700	Н	12.46	10.71	-7.84	15.33	33.00
	2593.0	40620	V	13.89	10.82	-7.94	16.77	33.00
BW: 10M 16QAM RB: 1,49	2030.0	40020	Н	14.11	10.82	-7.94	16.99	33.00
	2605.0	41540	V	8.78	10.93	-8.03	11.68	33.00
11D. 1,43	2685.0	41340	Н	6.58	10.93	-8.03	9.48	33.00
Remark:	(1)The R	BW,VBW	of SPA for	frequency	y RBW= 8M	IHz , VB	W= 8MF	lz

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	EUT				Measur	ement		
Operatio n Band	Fundamenta I Frequency	СН	Antenn a Pol.	S.G. Output	Anten na Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
	0500.5	00705	V	15.03	10.70	-7.83	17.90	33.00
LTE	2503.5	39725	Н	12.13	10.70	-7.83	15.00	33.00
BAND 41	0500.0	40600	V	14.68	10.80	-7.93	17.55	33.00
BW: 15M	2593.0	40620	Н	14.62	10.80	-7.93	17.49	33.00
QPSK	2692.5	11515	V	4.94	10.91	-8.02	7.83	33.00
RB: 1,0	2682.5	41515	Н	9.31	10.91	-8.02	12.20	33.00
LTE	2502.5	20725	V	14.39	10.71	-7.84	17.26	33.00
BAND 41	2503.5	39725	Н	11.73	10.71	-7.84	14.60	33.00
BW: 15M	2593.0	40620	V	13.79	10.82	-7.94	16.67	33.00
QPSK	2595.0	40020	Н	13.68	10.82	-7.94	16.56	33.00
RB: 1,74	2682.5	41515	V	7.89	10.93	-8.03	10.79	33.00
110. 1,74	2002.3	41515	Н	6.98	10.93	-8.03	9.88	33.00
LTE	2503.5	39725	V	14.95	10.70	-7.83	17.82	33.00
BAND 41	2000.0	03120	Н	11.98	10.70	-7.83	14.85	33.00
BW: 15M	2593.0	40620	V	14.88	10.80	-7.92	17.76	33.00
16QAM	2393.0	40020	Н	14.87	10.80	-7.93	17.74	33.00
RB: 1,0	2682.5	41515	V	5.24	10.91	-8.02	8.13	33.00
110. 1,0	2002.3	41515	Н	9.46	10.91	-8.02	12.35	33.00
LTE	2503.5	39725	V	15.37	10.71	-7.84	18.24	33.00
BAND 41	2000.0	09123	Н	12.60	10.71	-7.84	15.47	33.00
BW: 15M	2593.0	40620	V	13.79	10.82	-7.94	16.67	33.00
	2030.0	+0020	Н	13.88	10.82	-7.94	16.76	33.00
16QAM - RB: 1,74	2682.5	11515	V	7.71	10.93	-8.03	10.61	33.00
110. 1,74	2002.5	41515	Н	6.75	10.93	-8.03	9.65	33.00

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

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			T					
	EUT				Measurem	ent		
Operation	Fundamental	СН	Antenna	S.G.	Antenna	Cable	EIRP	Limit
Band	Frequency		Pol.	Output	Gain	Loss		
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE	2506.0	39750	V	15.44	10.70	-7.83	18.31	33.00
BAND 41	2300.0	39730	Н	11.80	10.70	-7.83	14.67	33.00
BW: 20M	2593.0	40620	V	15.01	10.80	-7.92	17.89	33.00
QPSK	2393.0	40020	Н	14.66	10.80	-7.92	17.54	33.00
RB: 1,0	2680.0	41490	V	4.55	10.91	-8.01	7.45	33.00
110. 1,0	2000.0	41430	Н	13.86	10.91	-8.01	16.76	33.00
LTE	2506.0	39750	V	15.41	10.72	-7.85	18.28	33.00
	2300.0	39730	Н	11.72	10.72	-7.85	14.59	33.00
BAND 41 – BW: 20M	2593.0	40620	V	13.75	10.82	-7.94	16.63	33.00
QPSK	2393.0	40020	Н	14.26	10.82	-7.94	17.14	33.00
RB: 1,99	2680.0	41490	V	8.34	10.93	-8.03	11.24	33.00
110. 1,99	2000.0	41430	Н	12.17	10.93	-8.03	15.07	33.00
LTE	2506.0	39750	V	15.38	10.70	-7.83	18.25	33.00
BAND 41	2300.0	39730	Н	11.84	10.70	-7.83	14.71	33.00
BW: 20M	2593.0	40620	V	14.80	10.80	-7.92	17.68	33.00
16QAM	2393.0	40020	Н	14.86	10.80	-7.92	17.74	33.00
RB: 1,0	2680.0	41490	V	4.86	10.91	-8.01	7.76	33.00
110. 1,0	2000.0	41430	Н	13.96	10.91	-8.01	16.86	33.00
LTE	2506.0	39750	V	15.13	10.72	-7.85	18.00	33.00
BAND 41	2300.0	03100	Н	11.71	10.72	-7.85	14.58	33.00
	2593.0	40620	V	13.81	10.82	-7.94	16.69	33.00
BW: 20M 16QAM RB: 1,99	2030.0	70020	Н	14.32	10.82	-7.94	17.20	33.00
	2680.0	41490	V	8.13	10.93	-8.03	11.03	33.00
ווט. ו,שט	2000.0	T 1 + 3 U	Н	11.94	10.93	-8.03	14.84	33.00
Remark:	(1)The R	BW,VBW	of SPA for	frequency	y RBW= 8M	IHz , VB	W= 8MF	lz

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	EUT				Measurem			
Operation	Fundamental	СН	Antenna	S.G.	Antenna	Cable	EIRP	Limit
Band	Frequency	011	Pol.	Output	Gain	Loss	- 11111	
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE	1710.7	131979	V	21.41	9.00	-6.59	23.82	30.00
BAND 66	1710.7	101979	Н	23.85	9.00	-6.59	26.26	30.00
BW: 1.4M	1745.0	132322	V	22.12	9.13	-6.65	24.60	30.00
QPSK	1745.0	102022	Н	23.94	9.13	-6.65	26.42	30.00
RB: 1,0	1779.3	132665	V	21.20	9.25	-6.71	23.74	30.00
nd. 1,0	1779.3	132003	Н	22.65	9.25	-6.71	25.19	30.00
LTE	1710.7	121070	V	21.34	9.00	-6.59	23.75	30.00
	1710.7	131979	Н	23.16	9.00	-6.59	25.57	30.00
BAND 66	1745 0	100000	V	21.54	9.13	-6.65	24.02	30.00
BW: 1.4M	1745.0	132322	Н	23.91	9.13	-6.65	26.39	30.00
QPSK	1770.0	100665	V	21.27	9.26	-6.71	23.82	30.00
RB: 1,5	1779.3	132665	Н	22.62	9.26	-6.71	25.17	30.00
LTE	1710.7	101070	V	21.41	9.00	-6.59	23.82	30.00
LTE	1710.7	131979	Н	23.15	9.00	-6.59	25.56	30.00
BAND 66	1745.0	100000	V	21.50	9.13	-6.65	23.98	30.00
BW: 1.4M	1745.0	132322	Н	23.95	9.13	-6.65	26.43	30.00
16QAM	1770.0	100665	V	21.23	9.25	-6.71	23.77	30.00
RB: 1,0	1779.3	132665	Н	22.68	9.25	-6.71	25.22	30.00
ıte	1710.7	101070	V	21.36	9.00	-6.59	23.77	30.00
LTE	1710.7	131979	Н	23.13	9.00	-6.59	25.54	30.00
BAND 66	4745.0	100000	V	21.53	9.13	-6.65	24.01	30.00
BW: 1.4M 16QAM RB: 1,5	1745.0	132322	Н	23.86	9.13	-6.65	26.34	30.00
	1779.3 132665	400005	V	21.29	9.25	-6.71	23.83	30.00
		132665	Н	22.71	9.25	-6.71	25.25	30.00
Remark:	(1)The F	BW,VBW	of SPA for	frequency	RBW= 8M	Hz , VBV	V= 8MH	Z

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	EUT				Measurem			•
Operation	Fundamental	СН	Antenna	S.G.	Antenna	Cable	EIRP	Limit
Band	Frequency	0	Pol.	Output	Gain	Loss		
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE	1711.5	131987	V	21.63	8.98	-6.58	24.03	30.00
BAND 66	1711.5	101901	Н	22.58	8.98	-6.58	24.98	30.00
BW: 3M	1745.0	132322	V	21.21	9.12	-6.65	23.68	30.00
QPSK	1745.0	102022	Н	23.52	9.12	-6.65	25.99	30.00
RB: 1,0	1778.5	132657	V	21.24	9.27	-6.72	23.79	30.00
חט. ו,ט	1770.5	132037	Н	22.60	9.26	-6.71	25.15	30.00
LTE	1711.5	131987	V	21.39	8.99	-6.59	23.79	30.00
	1711.5	131907	Н	22.77	8.99	-6.59	25.17	30.00
BAND 66 BW: 3M	1745.0	132322	V	21.42	9.13	-6.65	23.90	30.00
	1745.0	132322	Н	23.47	9.13	-6.65	25.95	30.00
QPSK	1770 5	122657	V	21.01	9.27	-6.72	23.56	30.00
RB: 1,14	1778.5	132657	Н	22.35	9.27	-6.72	24.90	30.00
LTE	1711 5	101007	V	21.19	8.98	-6.58	23.59	30.00
BAND 66	1711.5	131987	Н	22.72	8.98	-6.58	25.12	30.00
	1745 0	132322	V	21.21	9.12	-6.65	23.68	30.00
BW: 3M	1745.0	132322	Н	23.60	9.12	-6.65	26.07	30.00
16QAM	1770 F	122657	V	21.21	9.26	-6.71	23.76	30.00
RB: 1,0	1778.5	132657	Н	22.61	9.27	-6.71	25.17	30.00
LTE	1711 5	101007	V	21.46	8.99	-6.59	23.86	30.00
LTE	1711.5	131987	Н	22.82	8.99	-6.59	25.22	30.00
BAND 66 BW: 3M 16QAM RB: 1,14	1745 0	12222	V	21.47	9.13	-6.65	23.95	30.00
	1745.0	132322	Н	23.49	9.13	-6.65	25.97	30.00
	1778.5 132657	100057	V	21.09	9.28	-6.72	23.65	30.00
		Н	22.43	9.28	-6.72	24.99	30.00	
Remark:	(1)The F	BW,VBW	of SPA for	frequency	RBW= 8M	Hz , VBV	N= 8MH	Z

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	EUT				Measurem	ent		
Operation Band	Fundamental Frequency	СН	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE	1712.5	131997	V	21.56	8.98	-6.58	23.96	30.00
BAND 66	1712.5	131331	Н	23.40	8.98	-6.58	25.80	30.00
BW: 5M	1745.0	132322	V	21.67	9.12	-6.65	24.14	30.00
QPSK	1745.0	102022	Н	23.41	9.12	-6.65	25.88	30.00
RB: 1,0	1777.5	132647	V	21.20	9.26	-6.71	23.75	30.00
110. 1,0	1777.5	132047	Н	22.62	9.26	-6.71	25.17	30.00
LTE	1712.5	131997	V	21.46	9.00	-6.59	23.87	30.00
BAND 66	1712.5	101991	Н	22.96	9.00	-6.59	25.37	30.00
BW: 5M	1745.0	132322	V	21.37	9.14	-6.65	23.86	30.00
QPSK	1745.0	102022	Н	23.34	9.14	-6.65	25.83	30.00
RB: 1,24	1777.5	132647	V	20.94	9.27	-6.72	23.49	30.00
110. 1,27	1777.5	102071	Н	22.17	9.27	-6.72	24.72	30.00
LTE	1712.5	131997	V	21.62	8.98	-6.58	24.02	30.00
BAND 66	1712.5	101991	Н	23.26	8.98	-6.58	25.66	30.00
BW: 5M	1745.0	132322	V	20.93	9.12	-6.65	23.40	30.00
16QAM	1745.0	102022	Н	23.47	9.12	-6.65	25.94	30.00
RB: 1,0	1777.5	132647	V	21.18	9.26	-6.71	23.73	30.00
110. 1,0	1777.5	102047	Н	22.52	9.26	-6.71	25.07	30.00
LTE	1712.5	131997	V	21.50	9.00	-6.59	23.91	30.00
	1712.0	ופפוטו	Н	23.02	9.00	-6.59	25.43	30.00
BAND 66 BW: 5M 16QAM	1745.0	132322	V	21.54	9.14	-6.65	24.03	30.00
	1770.0	102022	Н	23.34	9.14	-6.65	25.83	30.00
RB: 1,24	1777.5	132647	V	21.12	9.27	-6.72	23.67	30.00
110.1,24	1777.5	132041	Н	22.25	9.27	-6.72	24.80	30.00

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

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	EUT				Measurem			•
Operation	Fundamental	СН	Antenna	S.G.	Antenna	Cable	EIRP	Limit
Band	Frequency	O.I.	Pol.	Output	Gain	Loss		
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE	1715.0	132022	V	21.37	8.98	-6.58	23.77	30.00
BAND 66	1713.0	102022	Н	22.98	8.98	-6.58	25.38	30.00
BW: 10M	1745.0	132322	V	20.12	9.11	-6.64	22.59	30.00
QPSK	1745.0	102022	Н	23.01	9.11	-6.64	25.48	30.00
RB: 1,0	1775.0	132622	V	20.43	9.24	-6.70	22.97	30.00
nd. 1,0	1775.0	132022	Н	22.76	9.24	-6.70	25.30	30.00
LTE	1715.0	122022	V	20.39	9.02	-6.60	22.81	30.00
	1715.0	132022	Н	22.77	9.02	-6.60	25.19	30.00
BAND 66 BW: 10M	1745.0	122222	V	21.63	9.15	-6.66	24.12	30.00
	1745.0	132322	Н	23.46	9.15	-6.66	25.95	30.00
QPSK	1775 0	100000	V	20.94	9.28	-6.72	23.50	30.00
RB: 1,49	1775.0	132622	Н	22.55	9.27	-6.72	25.10	30.00
LTE	1715.0	100000	V	21.21	8.98	-6.58	23.61	30.00
LTE	1715.0	132022	Н	23.20	8.98	-6.58	25.60	30.00
BAND 66	1745.0	100000	V	20.31	9.11	-6.64	22.78	30.00
BW: 10M	1745.0	132322	Н	23.23	9.11	-6.64	25.70	30.00
16QAM	1775.0	100000	V	20.48	9.24	-6.70	23.02	30.00
RB: 1,0	1775.0	132622	Н	22.97	9.24	-6.70	25.51	30.00
LTE	1715.0	100000	V	20.53	9.02	-6.60	22.95	30.00
LTE	1715.0	132022	Н	22.96	9.02	-6.60	25.38	30.00
BAND 66	1745 0	12222	V	21.70	9.15	-6.66	24.19	30.00
BW: 10M 16QAM	1745.0	132322	Н	23.61	9.15	-6.66	26.10	30.00
	1775.0 132622	100000	V	21.12	9.27	-6.72	23.67	30.00
RB: 1,49		Н	22.72	9.27	-6.72	25.27	30.00	
Remark:	(1)The R	BW,VBW	of SPA for	frequency	RBW= 8M	Hz , VBV	V= 8MH	Z

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	EUT				Measur	ement		
Operatio n Band	Fundamenta I Frequency	СН	Antenn a Pol.	S.G. Output	Anten na Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
ıte	4747 5	100047	V	21.66	8.99	-6.58	24.07	30.00
LTE	1717.5	132047	Н	23.10	8.99	-6.58	25.51	30.00
BAND 66	1745.0	120200	V	19.85	9.10	-6.64	22.31	30.00
BW: 15M QPSK	1745.0	132322	Н	22.47	9.10	-6.64	24.93	30.00
RB: 1,0	1772.5	132597	V	20.13	9.22	-6.69	22.66	30.00
110. 1,0	1772.5	102091	Η	21.97	9.22	-6.69	24.50	30.00
LTE	E 1717.5	132047	V	20.02	9.04	-6.61	22.45	30.00
BAND 66	1717.5	102041	Η	22.28	9.04	-6.61	24.71	30.00
BW: 15M	1745.0	132322	V	19.77	9.16	-6.66	22.27	30.00
QPSK	1743.0	102022	Н	21.44	9.16	-6.66	23.94	30.00
RB: 1,74	1772.5	132597	V	21.27	9.27	-6.72	23.82	30.00
110. 1,74	1772.5	102001	Н	22.71	9.27	-6.72	25.26	30.00
LTE	1717.5	132047	V	21.42	8.99	-6.58	23.83	30.00
BAND 66	1717.5	102047	Н	23.26	8.98	-6.58	25.66	30.00
BW: 15M	1745.0	132322	V	19.94	9.10	-6.64	22.40	30.00
16QAM	17 40.0	102022	Н	22.83	9.10	-6.64	25.29	30.00
RB: 1,0	1772.5	132597	V	20.22	9.22	-6.69	22.75	30.00
110. 1,0	1772.0	102007	Н	22.30	9.22	-6.69	24.83	30.00
LTE	1717.5	132047	V	20.07	9.04	-6.61	22.50	30.00
	1717.5	102047	Н	22.41	9.04	-6.61	24.84	30.00
BAND 66 - BW: 15M - 16QAM - RB: 1,74 -	1745.0	132322	V	21.55	9.16	-6.66	24.05	30.00
	17 70.0	102022	Н	23.18	9.16	-6.66	25.68	30.00
	1772.5	132597	V	21.27	9.27	-6.72	23.82	30.00
Remark	1772.0	102007	Н	22.65	9.27	-6.72	25.20	30.00

Remark

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

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	EUT				Measurem	ent	•	
Operation	Fundamental	СН	Antenna	S.G.	Antenna	Cable	EIRP	Limit
Band	Frequency	U	Pol.	Output	Gain	Loss		
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE	1720.0	132072	V	21.86	8.99	-6.58	24.27	30.00
BAND 66			Н	23.26	8.99	-6.58	25.67	30.00
BW: 20M	1745.0	132322	V	18.88	9.09	-6.63	21.34	30.00
QPSK	1745.0	102022	Н	21.93	9.09	-6.63	24.39	30.00
RB: 1,0	1770.0	132572	V	20.46	9.20	-6.68	22.98	30.00
, -	1770.0	102372	Н	22.17	9.20	-6.68	24.69	30.00
LTE	1720.0	132072	V	19.17	9.06	-6.62	21.61	30.00
BAND 66			Н	21.76	9.06	-6.62	24.20	30.00
BW: 20M	1745.0	132322	V	21.28	9.17	-6.67	23.78	30.00
QPSK	1743.0	102022	Н	23.18	9.17	-6.67	25.68	30.00
RB: 1,99	1770.0	132572	V	21.19	9.27	-6.72	23.74	30.00
11211,00	1770.0	102372	Н	22.71	9.27	-6.72	25.26	30.00
LTE	1720.0	132072	V	21.49	8.99	-6.58	23.90	30.00
BAND 66	1720.0	132072	Н	23.37	8.99	-6.58	25.78	30.00
BW: 20M	1745.0	132322	V	19.01	9.09	-6.63	21.47	30.00
16QAM	1745.0	132322	Н	22.21	9.09	-6.63	24.67	30.00
	1770.0	132572	V	20.74	9.20	-6.68	23.26	30.00
RB: 1,0	1770.0	132372	Н	22.43	9.20	-6.68	24.95	30.00
LTE	1700.0	122072	V	19.34	9.06	-6.62	21.78	30.00
LTE	1720.0	132072	Н	21.88	9.06	-6.62	24.32	30.00
BAND 66 BW: 20M 16QAM RB: 1,99	1745.0	12222	V	21.36	9.17	-6.67	23.86	30.00
	1745.0	132322	Н	23.21	9.17	-6.67	25.71	30.00
	1770.0 1325	100570	V	21.19	9.27	-6.72	23.74	30.00
		132572	Н	22.71	9.27	-6.72	25.26	30.00
Remark:	(1)The R	BW,VBW	of SPA for	frequency	RBW= 8M	Hz , VBV	V= 8MH	Z

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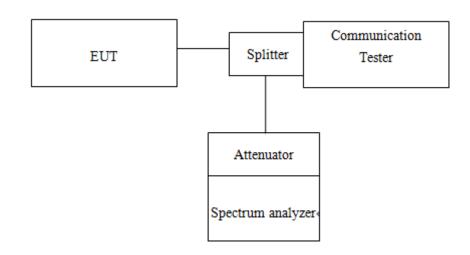
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8. OCCUPIED BANDWIDTH MEASUREMENT

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 $1\% \sim 5\%$ of emission BW, VBW= 3 times RBW, -20dBc display line was placed on the screen (or 20dB bandwidth). Set RBW to 99% bandwidth, RBW= $1\% \sim 5\%$, VBW= 3 RBW, with span > 2 * Signal BW, set % Power = 99%.

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8.4. Measurement Equipment Used

Conduc	cted Emission	(measured at a	ntenna port)	Test Site	
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.
TYPE		NUMBER	NUMBER	CAL.	
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	PASTERNACK	PE8210	RF29	12/24/2017	12/23/2018
Splitter	RF-LAMBAD	RFLT2W1G18G	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

Eroa	99% BW (MHz)			26 dB BW (MHz)			
Freq. (MHz)	СН	WCDMA II	HSDPA II	HSUPA II	WCDMA II	HSDPA II	HSUPA II
1852.40	9262	4.1486	4.1501	4.1387	4.7110	4.6780	4.6750
1880.00	9400	4.1313	4.1397	4.1198	4.6720	4.6600	4.6960
1907.60	9538	4.1594	4.1333	4.1496	4.6950	4.6860	4.6740

Freq.		999	% BW (MH	6 BW (MHz)		26 dB BW (MHz)		
(MHz)	CH	WCDMA	HSDPA	HSUPA	WCDMA	HSDPA	HSUPA	
(IVII IZ)		IV	IV	IV	IV	IV	IV	
1712.40	1312	4.1242	4.1160	4.1450	4.6950	4.6860	4.7110	
1732.60	1413	4.1309	4.1281	4.1320	4.6760	4.6770	4.6750	
1752.60	1513	4.1248	4.1327	4.1303	4.6830	4.6800	4.6560	

Freq.		99% BW (MHz)			26 dB BW (MHz)		
(MHz)	CH	WCDMA	HSDPA	HSUPA	WCDMA	HSDPA	HSUPA
(IVII IZ)		V	V	V	V	V	V
826.40	4132	4.1317	4.1306	4.1344	4.6880	4.6830	4.7010
836.60	4183	4.1235	4.1268	4.1178	4.6790	4.7190	4.6910
846.60	4233	4.1273	4.1214	4.1242	4.6690	4.6790	4.6620

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LTE BAND 2 Channel bandwidth: 1.4MHz						
Freq.	СН	99% B\	N (MHz)	26 dB B	W (MHz)	
(MHz)	011	QPSK	16QAM	QPSK	16QAM	
1850.7	18607	1.0934	1.0932	1.2421	1.2413	
1880.0	18900	1.0930	1.0946	1.2427	1.2382	
1909.3	19193	1.0942	1.0963	1.2409	1.2410	

LTE BAND 2 Channel bandwidth: 3MHz						
Freq.	СН	99% B\	N (MHz)	26 dB B	W (MHz)	
(MHz)		QPSK	16QAM	QPSK	16QAM	
1851.5	18615	2.6971	2.6961	2.9987	2.9943	
1880.0	18900	2.6975	2.6935	2.9871	3.0119	
1908.5	19185	2.6976	2.6955	2.9862	3.0091	

	LTE BAND 2 Channel bandwidth: 5MHz						
Freq.	СН	99% B\	N (MHz)	26 dB B	W (MHz)		
(MHz)	CIT	QPSK	16QAM	QPSK	16QAM		
1852.5	18625	4.4926	4.4980	4.9570	4.9614		
1880.0	18900	4.4918	4.4959	4.9941	4.9527		
1907.5	19175	4.5028	4.4959	4.9792	4.9496		

LTE BAND 2 Channel bandwidth: 10MHz						
Freq.	СН	99% B\	N (MHz)	26 dB B	W (MHz)	
(MHz)	GII	QPSK	16QAM	QPSK	16QAM	
1855.0	18650	8.9951	8.9523	9.781	9.754	
1880.0	18900	8.9870	8.9584	9.836	9.765	
1905.0	19150	8.9650	8.9381	9.791	9.765	

L	LTE BAND 2 Channel bandwidth: 15MHz						
Freq.	СН	99% B\	N (MHz)	26 dB B	W (MHz)		
(MHz)		QPSK	16QAM	QPSK	16QAM		
1857.5	18675	13.493	13.494	14.687	14.757		
1880.0	18900	13.477	13.450	14.751	14.669		
1902.5	19125	13.472	13.450	14.700	14.639		

LTE BAND 2 Channel bandwidth: 20MHz						
Freq.	СН	99% B\	N (MHz)	26 dB B	W (MHz)	
(MHz)	G	QPSK	16QAM	QPSK	16QAM	
1860.0	18700	17.982	18.014	19.453	19.386	
1880.0	18900	17.937	17.977	19.627	19.472	
1900.0	19100	17.945	17.948	19.418	19.508	

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LTE BAND 4 Channel bandwidth: 1.4MHz						
Freq.	СН	99% B\	W (MHz)	26 dB B	W (MHz)	
(MHz)	СП	QPSK	16QAM	QPSK	16QAM	
1710.7	19957	1.0930	1.0928	1.2361	1.2421	
1732.5	20175	1.0942	1.0982	1.2314	1.2400	
1754.3	20393	1.0915	1.0949	1.2358	1.2380	

LTE BAND 4 Channel bandwidth: 3MHz						
Freq.	СН	99% B\	V (MHz)	26 dB B	W (MHz)	
(MHz)		QPSK	16QAM	QPSK	16QAM	
1711.5	19965	2.6958	2.6987	2.9938	3.0044	
1732.5	20175	2.7000	2.7000	3.0172	3.0148	
1753.5	20385	2.6921	2.6968	2.9895	2.9992	

LTE BAND 4 Channel bandwidth: 5MHz						
Freq.	СН	99% B\	W (MHz)	26 dB B	W (MHz)	
(MHz)	OH	QPSK	16QAM	QPSK	16QAM	
1712.5	19957	4.4933	4.4889	4.9747	4.9662	
1732.5	20175	4.5072	4.5001	4.9673	4.9920	
1752.5	20375	4.5003	4.4964	4.9754	4.9586	

LTE BAND 4 Channel bandwidth: 10MHz								
Freq.	Freq. (MHz) CH	99% BW (MHz)		26 dB BW (MHz)				
(MHz)		QPSK	16QAM	QPSK	16QAM			
1715.0	20000	8.9740	8.9564	9.890	9.738			
1732.5	20175	8.9909	8.9591	9.802	9.790			
1750.0	20350	8.9887	8.9612	9.768	9.740			

LTE BAND 4 Channel bandwidth: 15MHz									
Freq.	СН	99% BW (MHz)		26 dB BW (MHz)					
(MHz)	G	QPSK	16QAM	QPSK	16QAM				
1717.5	20025	13.479	13.467	14.776	14.603				
1732.5	20175	13.527	13.502	14.801	14.869				
1747.5	20325	13.477	13.465	14.746	14.653				

LTE BAND 4 Channel bandwidth: 20MHz									
Freq.	Freq. (MHz) CH	99% BW (MHz)		26 dB BW (MHz)					
(MHz)		QPSK	16QAM	QPSK	16QAM				
1720.0	20050	17.893	17.928	19.354	19.984				
1732.5	20175	18.086	18.165	26.603	39.192				
1745.0	20300	17.952	18.008	19.516	19.518				

	LTE BAND 5 Channel bandwidth: 1.4MHz									
Γ	Freq. (MHz)	СН	99% B\	W (MHz)	26 dB B	W (MHz)				
	(MHz)	GII	QPSK	16QAM	QPSK	16QAM				
	824.7	20407	1.0940	1.0946	1.2390	1.2449				
	836.5	20525	1.0950	1.0958	1.2407	1.2517				
	848.3	20643	1.0964	1.0949	1.2493	1.2448				

LTE BAND 5 Channel bandwidth: 3MHz								
Freq.	Freq. (MHz) CH	99% BW (MHz)		26 dB BW (MHz)				
(MHz)		QPSK	16QAM	QPSK	16QAM			
825.5	20415	2.6996	2.6971	2.9991	3.0120			
836.5	20525	2.6954	2.7007	3.0398	2.9992			
847.5	20635	2.6995	2.6945	3.0346	3.0000			

	LTE BAND 5 Channel bandwidth: 5MHz									
Freq.	СН	99% B\	W (MHz)	26 dB B	W (MHz)					
(MHz)	CIT	QPSK	16QAM	QPSK	16QAM					
826.5	20425	4.4983	4.5025	4.9770	5.0029					
836.5	20525	4.5016	4.5044	5.0067	4.9556					
846.5	20625	4.5019	4.4916	4.9827	4.9087					

LTE BAND 5 Channel bandwidth: 10MHz								
Freq.	СН			N (MHz)	26 dB B	W (MHz)		
(MHz)		QPSK	16QAM	QPSK	16QAM			
829.0	20450	8.9877	8.9731	9.878	9.755			
836.5	20525	9.0108	8.9564	9.860	9.743			
844.0	20600	8.9763	8.9653	9.858	9.782			

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LTE BAND 7 Channel bandwidth: 5MHz									
Freq.	· • (.H	99% B\	W (MHz)	26 dB B	W (MHz)				
(MHz)		QPSK	16QAM	QPSK	16QAM				
2502.5	20775	4.4996	4.4982	4.9655	5.0028				
2535.0	21100	4.4887	4.4842	4.9794	4.9410				
2567.5	21425	4.4921	4.4962	4.9669	4.9656				

LTE BAND 7 Channel bandwidth: 10MHz									
Freq.	(.H	Freq. 99		N (MHz)	26 dB B	W (MHz)			
(MHz)		QPSK	16QAM	QPSK	16QAM				
2505.0	20800	9.0082	8.9540	9.819	9.753				
2535.0	21100	8.9872	8.9725	9.824	9.801				
2565.0	21400	8.9607	8.9571	9.793	9.758				

	LTE BAND 7 Channel bandwidth: 15MHz									
Freq.	СН	99% B\	W (MHz)	26 dB B	W (MHz)					
(MHz)	СП	QPSK	16QAM	QPSK	16QAM					
2507.5	20825	13.483	13.463	14.642	14.731					
2535.0	21100	13.481	13.501	14.659	14.690					
2562.5	21375	13.507	13.459	14.628	14.592					

LTE BAND 7 Channel bandwidth: 20MHz									
Freq.	СН	99% B\	N (MHz)	26 dB B	W (MHz)				
(MHz)		QPSK	16QAM	QPSK	16QAM				
2510.0	20850	17.928	17.952	19.554	19.551				
2535.0	21100	17.975	17.989	19.586	19.574				
2560.0	21350	17.933	17.932	19.460	19.455				

LTE BAND 12 Channel bandwidth: 1.4MHz									
Freq.	СН	99% B\	W (MHz)	26 dB B	W (MHz)				
(MHz)		QPSK	16QAM	QPSK	16QAM				
699.7	23017	1.0900	1.0950	1.2394	1.2357				
707.5	23095	1.0943	1.0933	1.2403	1.2300				
715.3	23173	1.0922	1.0953	1.2369	1.2285				

LTE BAND 12 Channel bandwidth: 3MHz						
Freq.	СН	99% BW (MHz)		26 dB BW (MHz)		
(MHz)	G	QPSK	16QAM	QPSK	16QAM	
700.5	23025	2.6939	2.6999	2.9927	3.0134	
707.5	23095	2.6983	2.6945	2.9678	3.0213	
714.5	23165	2.6946	2.6981	2.9623	2.9903	

LTE BAND 12 Channel bandwidth: 5MHz							
Freq.	Freq. CH	99% BW (MHz)		26 dB BW (MHz)			
(MHz)	ОП	QPSK	16QAM	QPSK	16QAM		
701.5	23035	4.5045	4.4916	5.1738	4.9328		
707.5	23095	4.4979	4.4964	4.9743	4.9401		
713.5	23155	4.4940	4.4963	4.9690	5.0009		

LTE BAND 12 Channel bandwidth: 10MHz							
Freq.	Freq. (MHz) CH	99% BW (MHz)		26 dB BW (MHz)			
(MHz)		QPSK	16QAM	QPSK	16QAM		
704.0	23060	8.9864	8.9554	9.856	9.756		
707.5	23095	8.9746	8.9621	9.777	9.809		
711.0	23130	9.0280	8.9849	9.836	9.773		

I	LTE BAND 13 Channel bandwidth: 5MHz							
Freq.	СН	99% BW (MHz)		26 dB BW (MHz)				
L	(MHz)	Сп	QPSK	16QAM	QPSK	16QAM		
I	779.5	23205	4.4941	4.4951	4.9983	4.9723		
I	782.0	23230	4.4908	4.4867	4.9793	4.9183		
I	784.5	23255	4.5070	4.4930	4.9747	4.9478		

LTE BAND 13 Channel bandwidth: 10MHz							
Freq.	СН	99% BW (MHz)		26 dB BW (MHz)			
(MHz)	(MHz)	QPSK	16QAM	QPSK	16QAM		
782.0	23230	8.961	8.938	9.781	9.751		

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LTE BAND 17 Channel bandwidth: 5MHz							
Freq. CH	99% BW (MHz)		26 dB BW (MHz)				
(MHz)	СП	QPSK	16QAM	QPSK	16QAM		
706.5	23755	4.4998	4.4982	4.9944	4.9904		
710.0	23790	4.4992	4.5035	5.0078	4.9650		
713.5	23825	4.5018	4.5009	4.9829	4.9084		

LTE BAND 17 Channel bandwidth: 10MHz							
Freq. CH	99% B\	99% BW (MHz)		26 dB BW (MHz)			
(MHz)	CH	QPSK	16QAM	QPSK	16QAM		
709.0	23780	8.9996	8.9972	9.841	9.824		
710.0	23790	9.0072	9.0128	9.816	9.841		
711.0	23780	9.0164	8.9986	9.906	9.839		

LTE BAND 25 Channel bandwidth: 1.4MHz							
Freq.	СН	99% B\	N (MHz)	26 dB B	W (MHz)		
(MHz)	Ö	QPSK	16QAM	QPSK	16QAM		
1850.7	26047	1.0939	1.0949	1.236	1.243		
1882.5	26365	1.0913	1.0943	1.241	1.233		
1914.3	26683	1.0943	1.0919	1.235	1.237		

LTE BAND 25 Channel bandwidth: 3MHz						
Freq. CH	99% BW (MHz)		26 dB BW (MHz)			
(MHz)	OH	QPSK	16QAM	QPSK	16QAM	
1851.5	26055	2.6931	2.6980	2.983	2.991	
1882.5	26365	2.6983	2.6983	3.005	2.998	
1913.5	26675	2.6969	2.6930	2.997	2.990	

LTE BAND 25 Channel bandwidth: 5MHz							
Freq.	СН	99% BW (MHz)		26 dB BW (MHz)			
(MHz)	(MHz)	QPSK	16QAM	QPSK	16QAM		
1852.5	26065	4.4953	4.4969	5.019	4.931		
1882.5	26365	4.4961	4.4968	5.009	4.991		
1912.5	26665	4.4956	4.4992	4.963	4.899		

LTE BAND 25 Channel bandwidth: 10MHz							
Freq.	СН	99% BW (MHz)		26 dB BW (MHz)			
(MHz)	СП	QPSK	16QAM	QPSK	16QAM		
1855.0	26090	8.9967	8.9586	9.826	9.736		
1882.5	26365	8.9684	8.9663	9.771	9.775		
1910.0	26640	8.9761	8.9602	9.730	9.719		

LTE BAND 25 Channel bandwidth: 15MHz							
Freq.		99% BW (MHz)		26 dB BW (MHz)			
(MHz)	Ö	QPSK	16QAM	QPSK	16QAM		
1857.5	26115	13.495	13.485	14.69	14.56		
1882.5	26365	13.484	13.468	14.64	14.63		
1907.5	26615	13.461	13.467	14.69	14.67		

LTE BAND 25 Channel bandwidth: 20MHz								
Freq. CH	99% B\	99% BW (MHz) 26 dB BW (MH						
(MHz)	(MHz)	QPSK	16QAM	QPSK	16QAM			
1860.0	26140	17.9460	17.9570	19.600	19.340			
1882.5	26365	17.9590	17.9410	19.640	19.540			
1905.0	26590	17.9250	17.9070	19.320	19.450			

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L7	LTE BAND 26 Channel bandwidth: 1.4MHz									
Freq.	Freq. CH	99% BW (MHz)		26 dB BW (MHz)						
(MHz)	ОП	QPSK	16QAM	QPSK	16QAM					
814.7	26697	1.0929	1.0956	1.2430	1.2340					
831.5	26865	1.0928	1.0931	1.2400	1.2420					
848.3	27033	1.0896	1.0956	1.2360	1.2320					

L	LTE BAND 26 Channel bandwidth: 3MHz									
Freq.	СН	99% B\	W (MHz)	26 dB B	W (MHz)					
(MHz)	CH	QPSK	16QAM	QPSK	16QAM					
815.5	26705	2.6964	2.6945	2.9840	2.9730					
831.5	26865	2.6944	2.6986	2.9780	2.9850					
847.5	27025	2.6956	2.6977	3.0050	2.9940					

LTE BAND 26 Channel bandwidth: 5MHz									
Freq.	СН	99% B\	N (MHz)	26 dB B	W (MHz)				
(MHz)	Ö	QPSK	16QAM	QPSK	16QAM				
816.5	26715	4.4881	4.4871	4.9850	4.9850				
831.5	26865	4.4915	4.4969	4.9670	4.9770				
846.5	27015	4.4988	4.4925	4.9550	4.9330				

L'	LTE BAND 26 Channel bandwidth: 10MHz									
Freq.	СН	99% B\	N (MHz)	26 dB B	W (MHz)					
(MHz)	CH	QPSK	16QAM	QPSK	16QAM					
820.0	26750	9.0234	8.9761	9.751	9.754					
831.5	26865	8.9842	8.9512	9.743	9.822					
844.0	26990	8.9843	8.9433	9.839	9.724					

L.	LTE BAND 26 Channel bandwidth: 15MHz									
Freq. CH	99% B\	99% BW (MHz)		26 dB BW (MHz)						
(MHz)	(MHz)	QPSK	16QAM	QPSK	16QAM					
822.5	26775	13.508	13.488	14.790	14.610					
831.5	26865	13.473	13.455	14.660	14.580					
841.5	26965	13.483	13.450	14.750	14.760					

LTE BAND 26 for part 90S Channel bandwidth: 1.4MHz									
Freq.	СН	99% B\	W (MHz)	26 dB B	W (MHz)				
(MHz)	Ö	QPSK	16QAM	QPSK	16QAM				
814.7	26697	1.0937	1.0937	1.2390	1.2250				
819.0	26740	1.0939	1.0909	1.2390	1.2340				
823.3	26783	1.0932	1.0902	1.2360	1.2310				

LTE BAND 26 for part 90S Channel bandwidth: 3MHz								
Freq.	СН	99% B\	N (MHz)	26 dB B	W (MHz)			
(MHz)		QPSK	16QAM	QPSK	16QAM			
815.5	26705	2.6957	2.6968	2.9660	2.9990			
819.0	26740	2.6947	2.6968	2.9880	3.0060			
822.5	26775	2.6966	2.7003	2.9690	3.0040			

LTE BAND 26 for part 90S Channel bandwidth: 5MHz									
Freq.	СН	99% B\	W (MHz)	26 dB B	W (MHz)				
(MHz)	Oi i	QPSK	16QAM	QPSK	16QAM				
816.5	26715	4.4917	4.4834	4.9880	4.9690				
819.0	26740	4.4953	4.4988	4.9750	4.9890				
821.5	26765	4.4984	4.4965	4.9620	4.9810				

LTE BA	LTE BAND 26 for part 90S Channel bandwidth: 10MHz								
Freq.	СН	99% BW (MHz)		26 dB BW (MHz)					
(MHz)	CII	QPSK	16QAM	QPSK	16QAM				
819.0	26740	9.0099	8.9583	9.831	9.756				

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LTE BAND 30 Channel bandwidth: 5MHz									
Freq.	СН	99% B\	W (MHz)	26 dB B	W (MHz)				
(MHz)	СП	QPSK	16QAM	QPSK	16QAM				
2307.5	27685	4.5002	4.4953	4.9960	5.0090				
2310.0	27710	4.4913	4.4964	4.9790	4.9900				
2312.5	27735	4.4981	4.5022	4.9610	4.9280				

LTE BAND 30 Channel bandwidth: 10MHz								
Freq. (MHz) CH	CJ	99% BW (MHz)		26 dB BW (MHz)				
	CH	QPSK	16QAM	16QAM	QPSK			
2310.0	27710	8.9815	8.9557	9.823	9.785			

LTE BAND 38 Channel bandwidth: 5MHz								
Freq.	СН	99% B\	N (MHz)	26 dB B	W (MHz)			
(MHz)	OH	QPSK	16QAM	QPSK	16QAM			
2572.5	37775	4.5008	4.4982	5.1530	4.9416			
2595.0	38000	4.5033	4.4948	5.1708	5.0799			
2617.5	38225	4.5114	4.5002	5.2825	4.9314			

	LTE BAND 38 Channel bandwidth: 10MHz								
Freq		СН	99% B\	N (MHz)	26 dB B	W (MHz)			
(MHz	<u>'</u>)		QPSK	16QAM	QPSK	16QAM			
2575.	0	37800	8.9791	8.9694	9.787	9.695			
2595.	0	38000	8.9816	8.9674	9.706	9.850			
2615.	0	38200	8.9867	8.9583	9.715	9.893			

	LTE BAND 38 Channel bandwidth: 15MHz									
Ī	Freq. (MHz)	СН	99% B\	W (MHz)	26 dB B	W (MHz)				
l	(MHz)	Ö	QPSK	16QAM	QPSK	16QAM				
I	2577.5	37825	13.457	13.480	14.590	14.834				
I	2595.0	38000	13.468	13.476	14.663	14.633				
ľ	2612.5	38175	13.466	13.463	14.744	14.538				

LTE BAND 38 Channel bandwidth: 20MHz								
Freq.	СН	99% B\	N (MHz)	26 dB B	W (MHz)			
(MHz)	CII	QPSK	16QAM	QPSK	16QAM			
2580.0	37850	17.967	17.919	20.415	19.354			
2595.0	38000	17.959	17.987	19.472	19.561			
2610.0	38150	17.924	17.893	19.733	19.579			

LTE BAND 41 Channel bandwidth: 5MHz									
Freq.	СН	99% B\	W (MHz)	26 dB B	W (MHz)				
(MHz)	CH	QPSK	16QAM	QPSK	16QAM				
2498.5	39675	4.4995	4.4869	5.0930	4.9660				
2593.0	40620	4.5037	4.4965	5.1090	4.9520				
2687.5	41565	4.9311	5.2780	10.0000	10.0000				

LTE BAND 41 Channel bandwidth: 10MHz								
Freq.	СН	99% B\	N (MHz)	26 dB B	W (MHz)			
(MHz)	CH	QPSK	16QAM	QPSK	16QAM			
2501.0	39700	8.9700	8.9593	9.698	9.993			
2593.0	40620	8.9592	8.9649	9.839	9.828			
2685.0	41540	8.9537	8.9504	9.815	9.922			

LTE BAND 41 Channel bandwidth: 15MHz								
Freq. (MHz)	СН	99% B\	N (MHz)	26 dB B	W (MHz)			
(MHz)	511	QPSK	16QAM	QPSK	16QAM			
2503.5	39725	13.484	13.467	14.850	14.530			
2593.0	40620	13.499	13.488	14.610	14.700			
2682.5	41515	13.493	13.490	14.800	14.750			

LTE BAND 41 Channel bandwidth: 20MHz								
Freq.	СН	99% B\	V (MHz)	26 dB B	W (MHz)			
(MHz)		QPSK	16QAM	QPSK	16QAM			
2506.0	39750	17.938	17.901	20.450	19.520			
2593.0	40620	17.928	17.944	19.900	19.360			
2680.0	41490	17.967	17.967	20.210	19.510			

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LTE BAND 66 Channel bandwidth: 1.4MHz									
Freq.	СН	99% B\	W (MHz)	26 dB B	W (MHz)				
(MHz)	CIT	QPSK	16QAM	QPSK	16QAM				
1710.7	131979	1.0919	1.0930	1.2340	1.2300				
					1.2320				
1779.3	132665	1.0948	1.0949	1.2400	1.2380				

LTE BAND 66 Channel bandwidth: 3MHz									
Freq.	СН	99% B\	N (MHz)	26 dB B	W (MHz)				
(MHz)	CH	QPSK	16QAM	QPSK	16QAM				
1711.5	131987	2.6937	2.6992	2.9930	3.0050				
1745.0	132322	2.6923	2.6994	2.9930	2.9840				
1778.5	132657	2.7018	2.7008	2.9890	3.0140				

L	LTE BAND 66 Channel bandwidth: 5MHz									
Freq.	СН	99% B\	W (MHz)	26 dB B	W (MHz)					
(MHz)	OH	QPSK	16QAM	QPSK	16QAM					
1712.5	131997	4.4933	4.4982	4.9790	4.9660					
1745.0	132322	4.4938	4.4944	4.9820	4.9800					
1777.5	132647	4.5022	4.4960	4.9830	4.9670					

LTE BAND 66 Channel bandwidth: 10MHz								
Freq.	СН			26 dB BW (MHz)				
(MHz)		QPSK	16QAM	QPSK	16QAM			
1715.0	132022	8.9757	8.9674	9.7520	9.7710			
1745.0	132322	9.0038	8.9625	9.8560	9.7400			
1775.0	132622	9.0055	8.9675	9.8120	9.8330			

LTE BAND 66 Channel bandwidth: 15MHz								
Freq.	СН	\ /		26 dB BW (MHz)				
(MHz)		QPSK	16QAM	QPSK	16QAM			
1717.5	132047	13.5080	13.4670	14.6600	14.6300			
1745.0	132322	13.4940	13.4790	14.7500	14.6900			
1772.5	132597	13.4960	13.4750	14.8400	14.7200			

LTE BAND 66 Channel bandwidth: 20MHz								
Freq.	СН	99% BW (MHz)		26 dB BW (MHz)				
(MHz)		QPSK	16QAM	QPSK	16QAM			
1720.0	132072	17.9430	17.9430	19.5500	19.4700			
1745.0	132322	17.9630	17.9540	19.6500	19.4400			
1770.0	132572	18.0010	18.0310	19.6700	19.7600			

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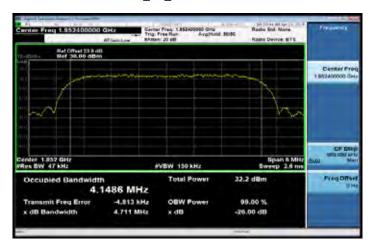
No.134, WuKungRoad, New TaipeilndustrialPark, WukuDistrict, New TaipeiCity, Taiwan 24803/新北市五股區新北產業園區五工路 134 號

100.134, WuKungRoad, New TaipeilndustrialPark, WukuDistrict, New TaipeiCity, Taiwan 24803/新北市五股區新北產業園區五工路 134 號



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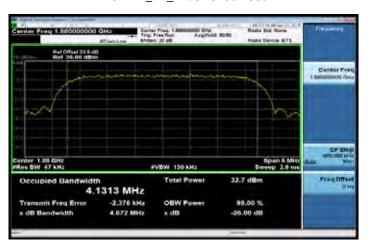
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HSDPA B2 LowCH9262-1852.4



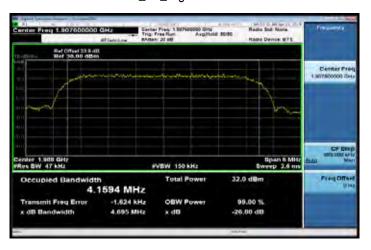
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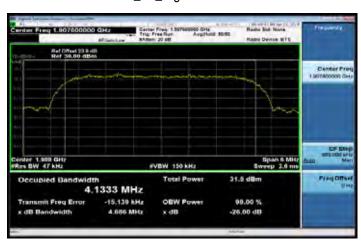
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WCDMA B2 HighCH9538-1907.6



HSDPA B2 HighCH9538-1907.6



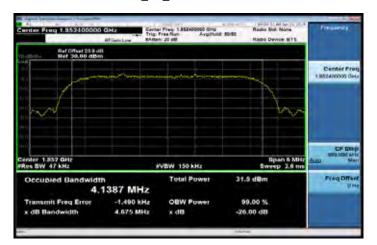
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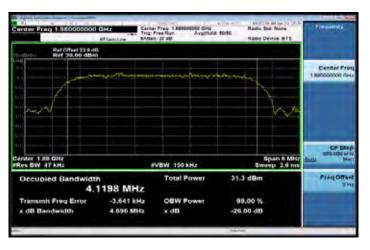
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WCDMA B4 LowCH1312-1712.4



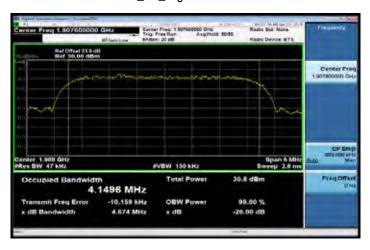
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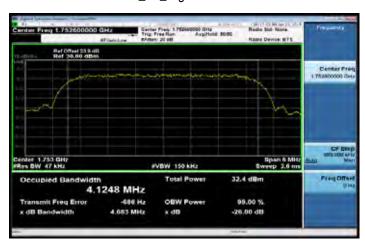
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WCDMA_B4_HighCH1513-1752.6



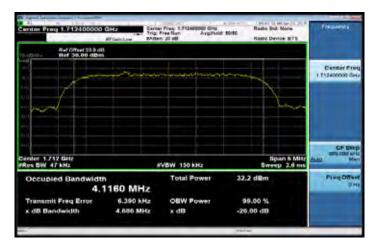
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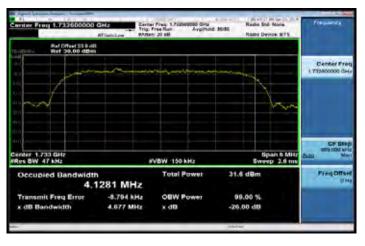
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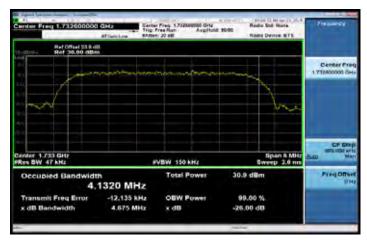
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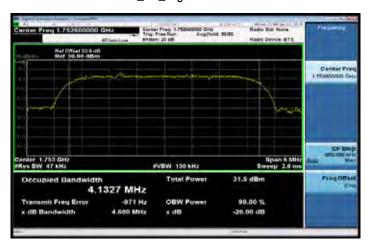
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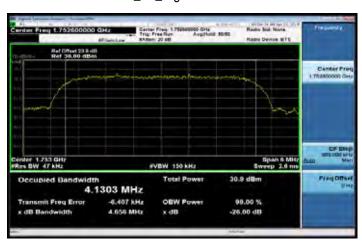
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HSUPA_B4_HighCH1513-1752.6



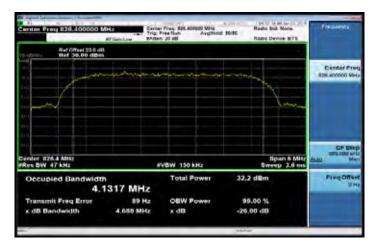
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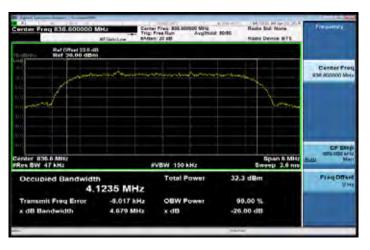
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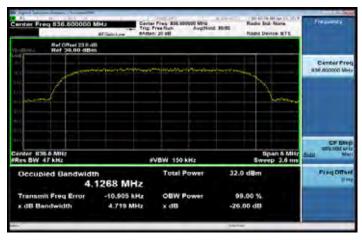
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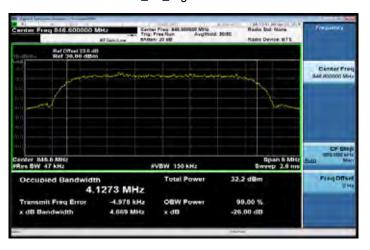
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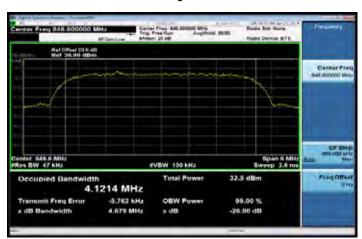
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WCDMA B5 HighCH4233-846.6



HSDPA_B5_HighCH4233-846.6

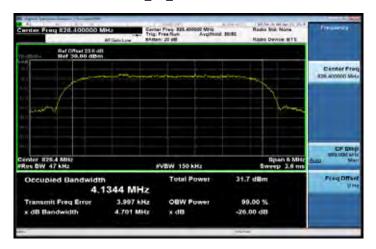


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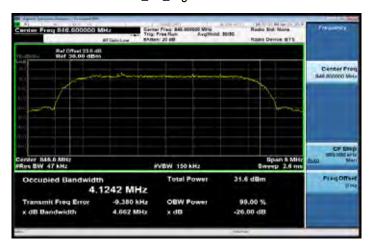
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HSUPA B5 MidCH4183-836.6



HSUPA_B5_HighCH4233-846.6



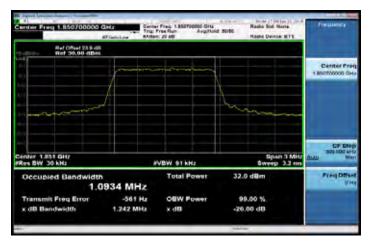
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Band2_1_4MHz_QPSK_6_0_LowCH18607-1850.7



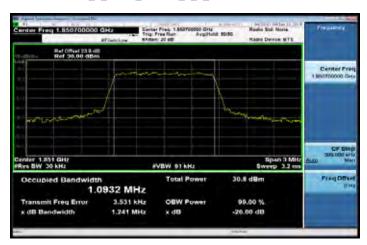
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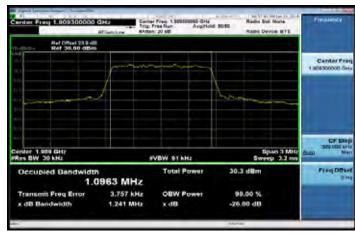
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Band2_1_4MHz_16QAM_6_0_HighCH19193-1909.3



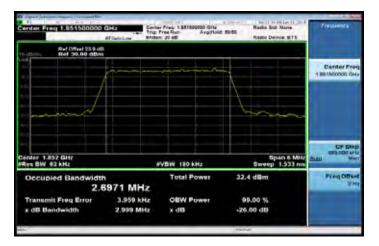
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Band2_3MHz_QPSK_15_0_LowCH18615-1851.5



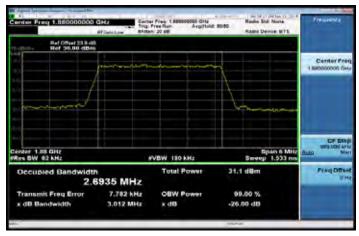
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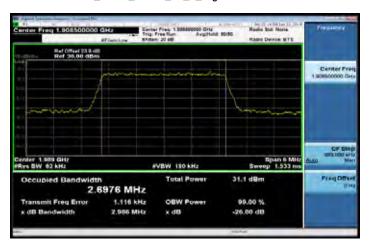
Band2_3MHz_QPSK_15_0_MidCH18900-1880



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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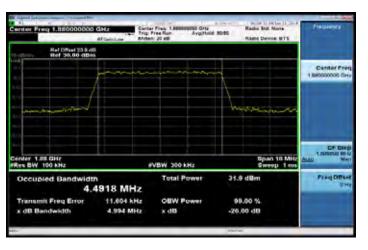
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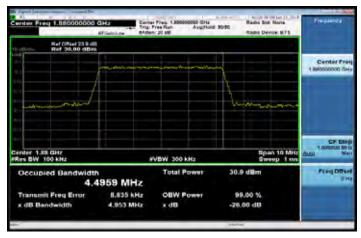
Band2_5MHz_16QAM_25_0_LowCH18625-1852.5



Band2_5MHz_QPSK_25_0_MidCH18900-1880



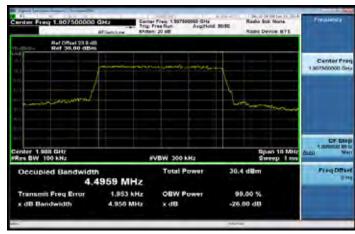
Band2 5MHz 16QAM 25 0 MidCH18900-1880



Band2_5MHz_QPSK_25_0_HighCH19175-1907.5



Band2_5MHz_16QAM_25_0_HighCH19175-1907.5



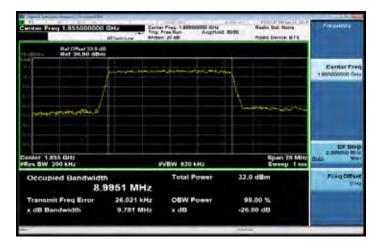
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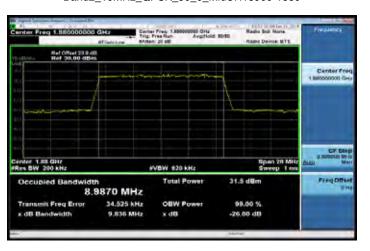
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Band2_10MHz_16QAM_50_0_LowCH18650-1855



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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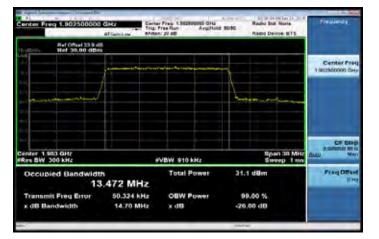
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Band2_15MHz_QPSK_75_0_HighCH19125-1902.5



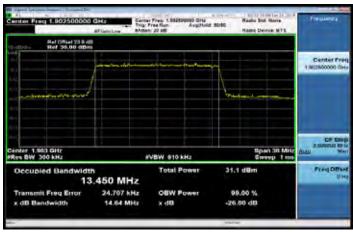
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Band2_15MHz_16QAM_75_0_MidCH18900-1880



Band2_15MHz_16QAM_75_0_HighCH19125-1902.5



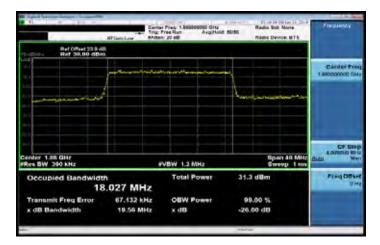
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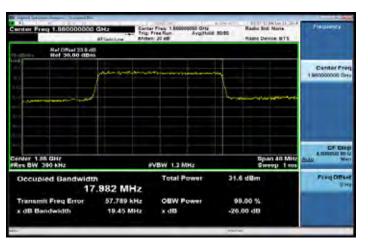
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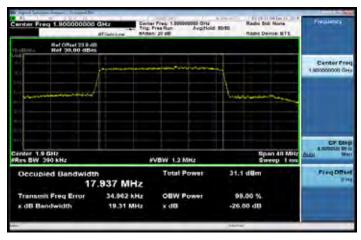
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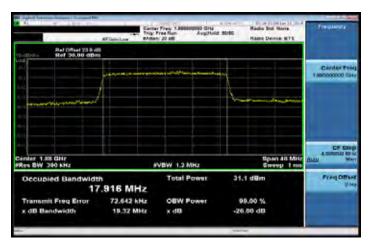
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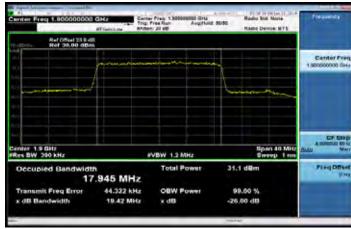
Band2_20MHz_QPSK_100_0_HighCH19100



Band2_20MHz_QPSK_100_0_MidCH18900



Band2_20MHz_QPSK_100_0_HighCH19100-1900



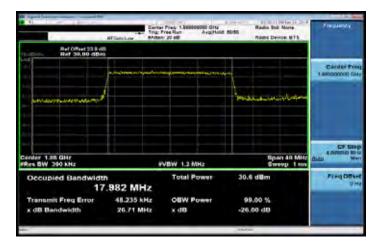
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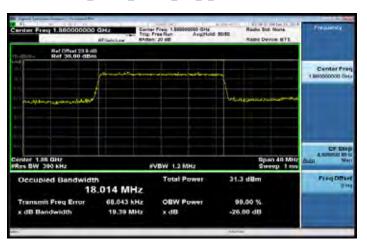
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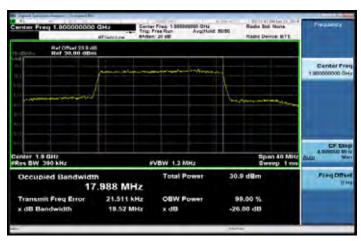
Band2_20MHz_16QAM_100_0_MidCH18900-1880



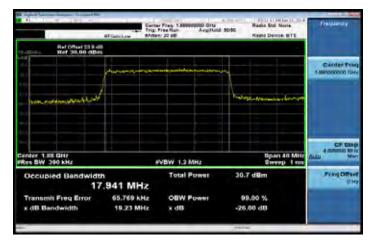
Band2_20MHz_16QAM_100_0_LowCH18700-1860



Band2_20MHz_16QAM_100_0_HighCH19100



Band2_20MHz_16QAM_100_0_MidCH18900



Band2_20MHz_16QAM_100_0_HighCH19100-1900



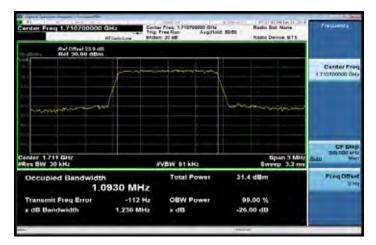
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Band4_1_4MHz_QPSK_6_0_LowCH19957-1710.7



Band4_1_4MHz_QPSK_6_0_MidCH20175-1732.5



Band4_1_4MHz_QPSK_6_0_HighCH20393-1754.3



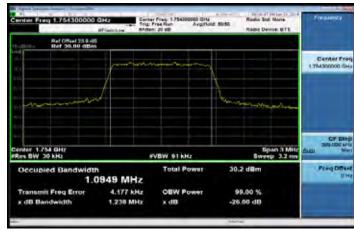
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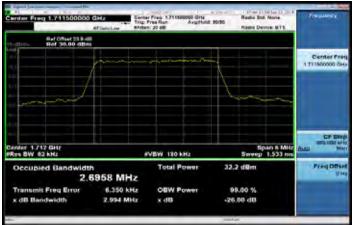
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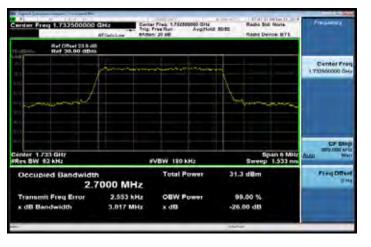


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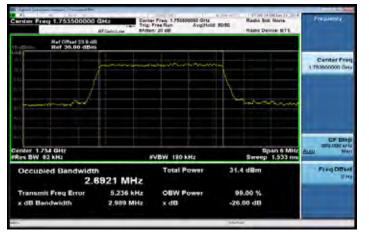
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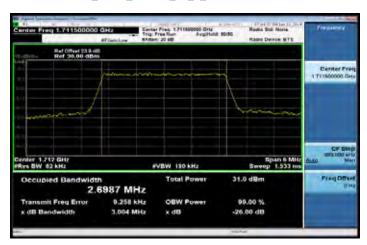
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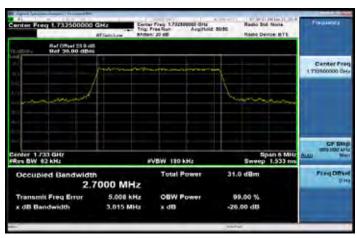
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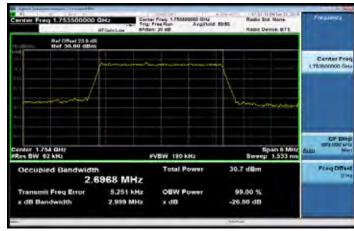
Band4_3MHz_16QAM_15_0_LowCH19965-1711.5



Band4 3MHz 16QAM 15 0 MidCH20175-1732.5



Band4_3MHz_16QAM_15_0_HighCH20385-1753.5



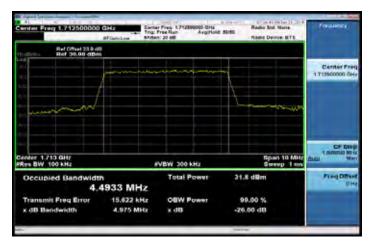
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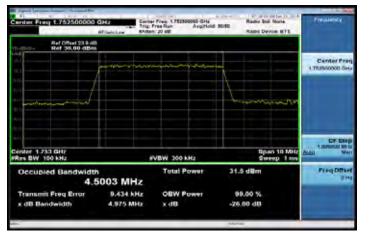
Band4_5MHz_QPSK_25_0_LowCH19975-1712.5



Band4_5MHz_QPSK_25_0_MidCH20175-1732.5



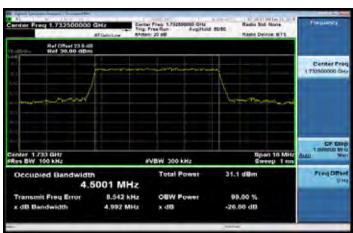
Band4_5MHz_QPSK_25_0_HighCH20375-1752.5



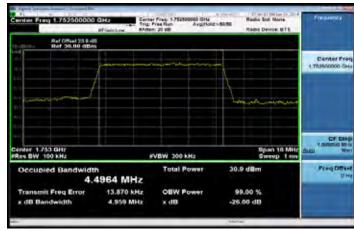
Band4_5MHz_16QAM_25_0_LowCH19975-1712.5



Band4_5MHz_16QAM_25_0_MidCH20175-1732.5



Band4_5MHz_16QAM_25_0_HighCH20375-1752.5



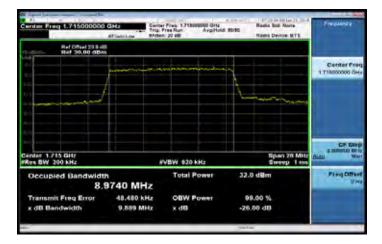
Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

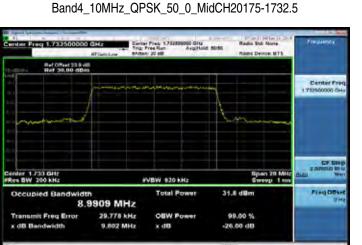
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Band4_10MHz_QPSK_50_0_LowCH20000-1715





Band4_10MHz_QPSK_50_0_HighCH20350-1750



Band4_10MHz_16QAM_50_0_LowCH20000-1715



Band4 10MHz 16QAM 50 0 MidCH20175-1732.5



Band4_10MHz_16QAM_50_0_HighCH20350-1750



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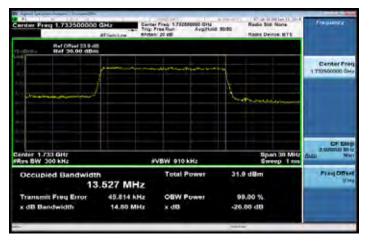


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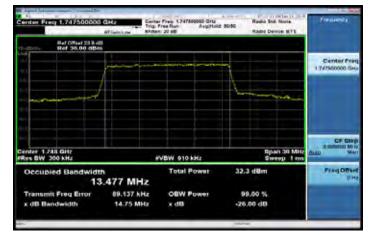
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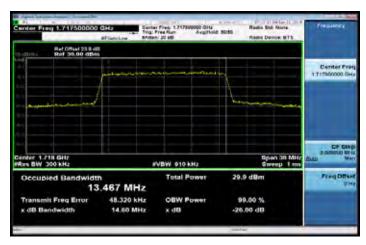
Band4_15MHz_QPSK_75_0_MidCH20175-1732.5



Band4_15MHz_QPSK_75_0_HighCH20325-1747.5



Band4_15MHz_16QAM_75_0_LowCH20025-1717.5



Band4_15MHz_16QAM_75_0_MidCH20175-1732.5



Band4_15MHz_16QAM_75_0_HighCH20325-1747.5



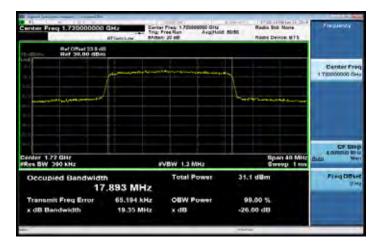
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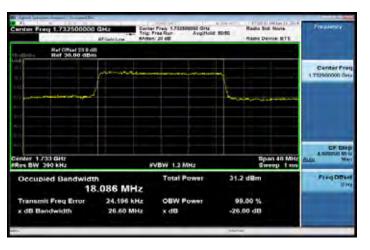
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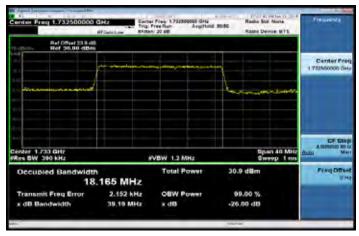
Band4_20MHz_16QAM_100_0_LowCH20050-1720



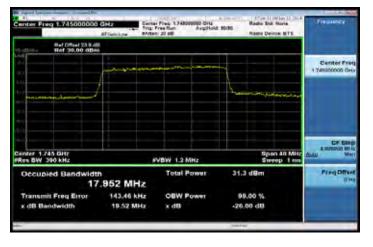
Band4_20MHz_QPSK_100_0_MidCH20175-1732.5



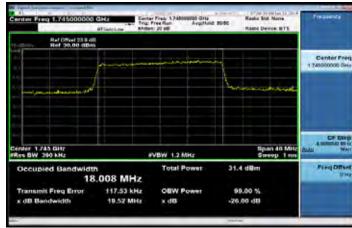
Band4 20MHz 16QAM 100 0 MidCH20175-1732.5



Band4_20MHz_QPSK_100_0_HighCH20300-1745



Band4_20MHz_16QAM_100_0_HighCH20300-1745



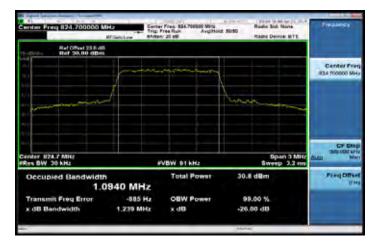
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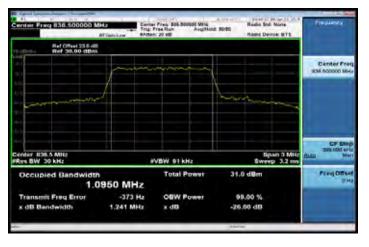


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Band5_1_4MHz_QPSK_6_0_LowCH20407-824.7



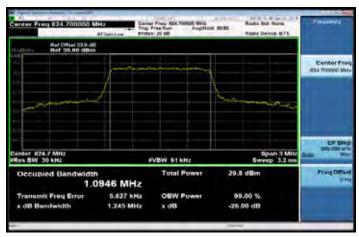
Band5_1_4MHz_QPSK_6_0_MidCH20525-836.5



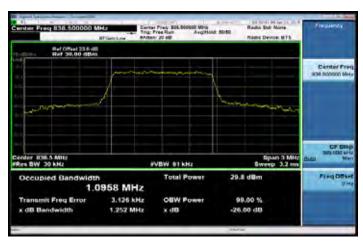
Band5_1_4MHz_QPSK_6_0_HighCH20643-848.3



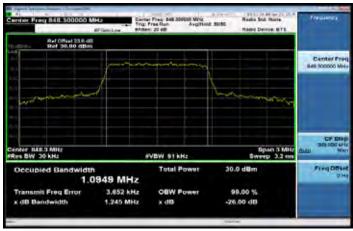
Band5_1_4MHz_16QAM_6_0_LowCH20407-824.7



Band5_1_4MHz_16QAM_6_0_MidCH20525-836.5



Band5_1_4MHz_16QAM_6_0_HighCH20643-848.3



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Band5_3MHz_QPSK_15_0_LowCH20415-825.5



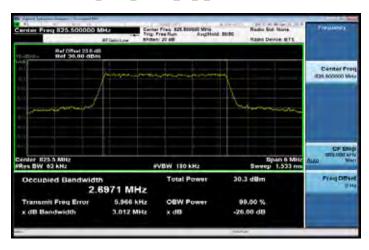
Band5_3MHz_QPSK_15_0_MidCH20525-836.5



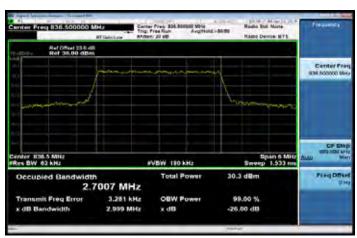
Band5_3MHz_QPSK_15_0_HighCH20635-847.5



Band5_3MHz_16QAM_15_0_LowCH20415-825.5



Band5 3MHz 16QAM 15 0 MidCH20525-836.5



Band5_3MHz_16QAM_15_0_HighCH20635-847.5



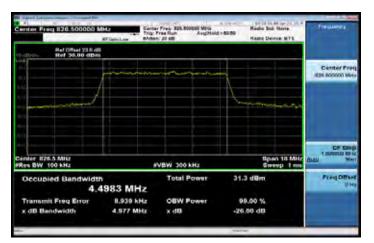
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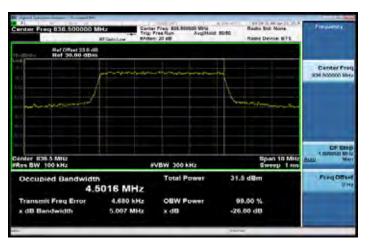
Band5_5MHz_QPSK_25_0_LowCH20425-826.5



Band5_5MHz_16QAM_25_0_LowCH20425-826.5



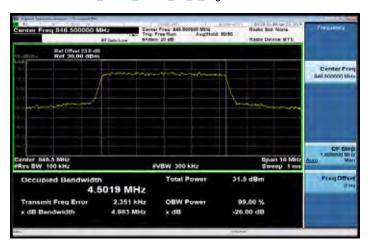
Band5_5MHz_QPSK_25_0_MidCH20525-836.5



Band5_5MHz_16QAM_25_0_MidCH20525-836.5



Band5_5MHz_QPSK_25_0_HighCH20625-846.5



Band5_5MHz_16QAM_25_0_HighCH20625-846.5



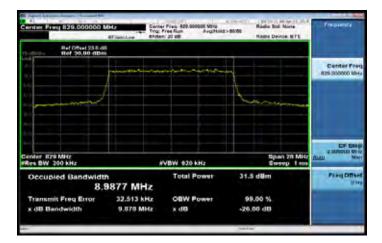
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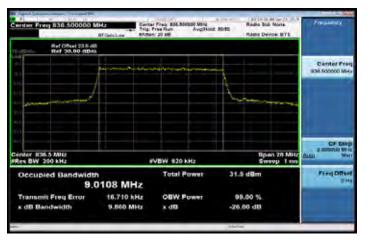


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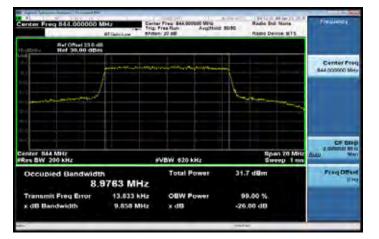
Band5_10MHz_QPSK_50_0_LowCH20450-829



Band5_10MHz_QPSK_50_0_MidCH20525-836.5



Band5_10MHz_QPSK_50_0_HighCH20600-844



Band5_10MHz_16QAM_50_0_LowCH20450-829



Band5 10MHz 16QAM 50 0 MidCH20525-836.5



Band5_10MHz_16QAM_50_0_HighCH20600-844



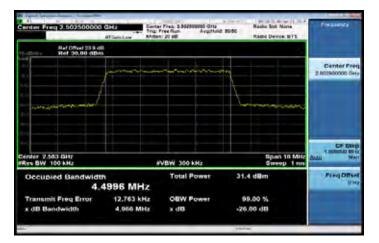
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Band7_5MHz_QPSK_25_0_LowCH20775-2502.5



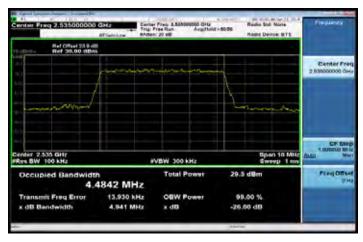
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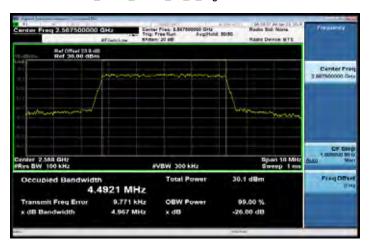
Band7_5MHz_QPSK_25_0_MidCH21100-2535



Band7_5MHz_16QAM_25_0_MidCH21100-2535



Band7_5MHz_QPSK_25_0_HighCH21425-2567.5



Band7_5MHz_16QAM_25_0_HighCH21425-2567.5



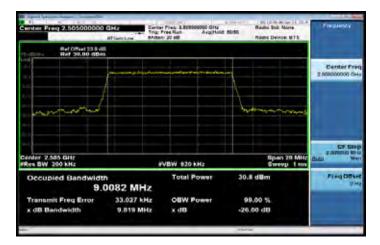
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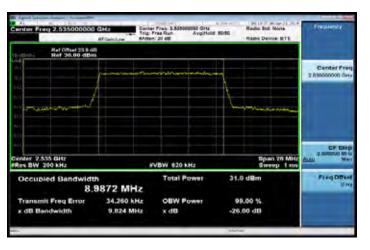
Band7_10MHz_QPSK_50_0_LowCH20800-2505



Band7_10MHz_16QAM_50_0_LowCH20800-2505



Band7 10MHz QPSK 50 0 MidCH21100-2535



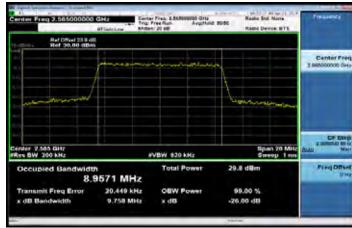
Band7_10MHz_16QAM_50_0_MidCH21100-2535



Band7_10MHz_QPSK_50_0_HighCH21400-2565



Band7_10MHz_16QAM_50_0_HighCH21400-2565



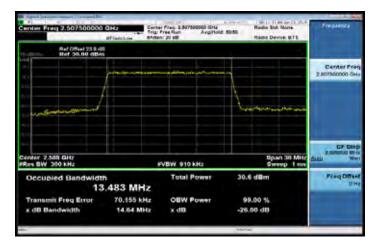
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Band7_15MHz_QPSK_75_0_LowCH20825-2507.5



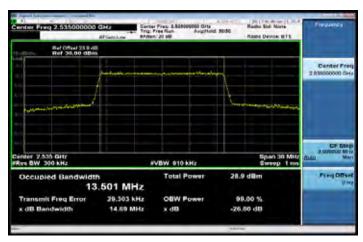
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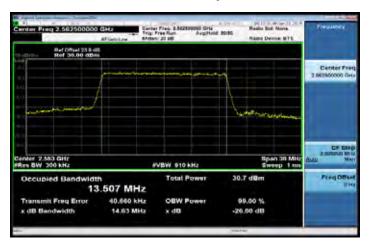
Band7_15MHz_QPSK_75_0_MidCH21100-2535



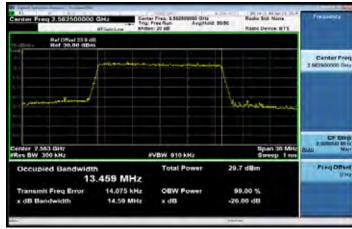
Band7_15MHz_16QAM_75_0_MidCH21100-2535



Band7_15MHz_QPSK_75_0_HighCH21375-2562.5



Band7_15MHz_16QAM_75_0_HighCH21375-2562.5



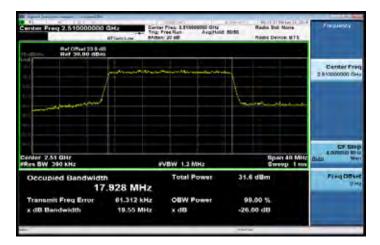
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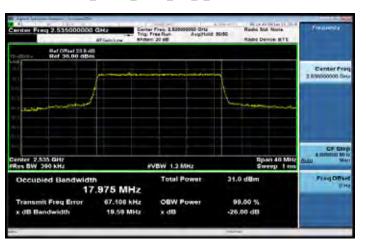
Band7_20MHz_QPSK_100_0_LowCH20850-2510



Band7_20MHz_16QAM_100_0_LowCH20850-2510



Band7_20MHz_QPSK_100_0_MidCH21100-2535



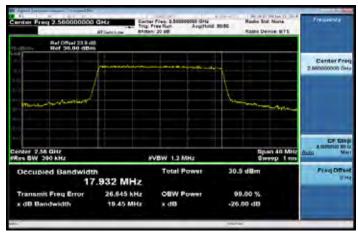
Band7 20MHz 16QAM 100 0 MidCH21100-2535



Band7_20MHz_QPSK_100_0_HighCH21350-2560



Band7_20MHz_16QAM_100_0_HighCH21350-2560



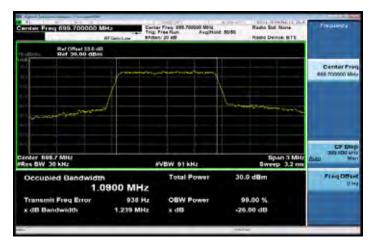
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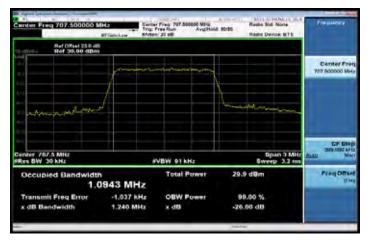


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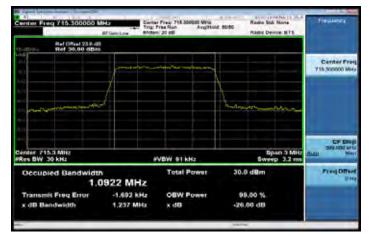
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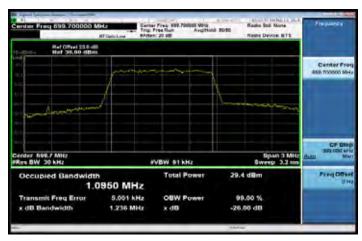
Band12_1_4MHz_QPSK_6_0_MidCH23095-707.5



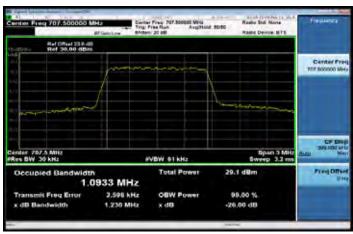
Band12_1_4MHz_QPSK_6_0_HighCH23173-715.3



Band12_1_4MHz_16QAM_6_0_LowCH23017-699.7



Band12_1_4MHz_16QAM_6_0_MidCH23095-707.5



Band12_1_4MHz_16QAM_6_0_HighCH23173-715.3



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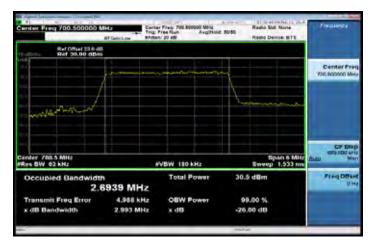
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Band12_3MHz_QPSK_15_0_LowCH23025-700.5



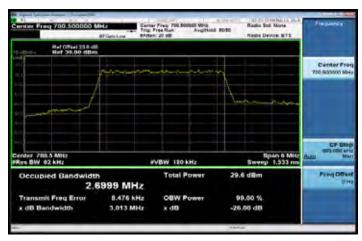
Band12_3MHz_QPSK_15_0_MidCH23095-707.5



Band12_3MHz_QPSK_15_0_HighCH23165-714.5



Band12_3MHz_16QAM_15_0_LowCH23025-700.5



Band12 3MHz 16QAM 15 0 MidCH23095-707.5



Band12_3MHz_16QAM_15_0_HighCH23165-714.5



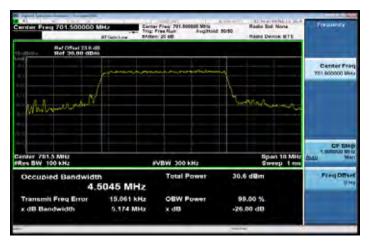
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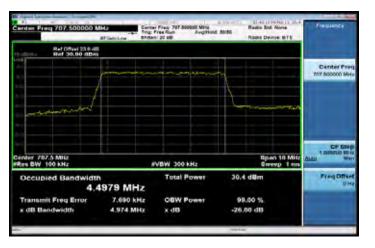


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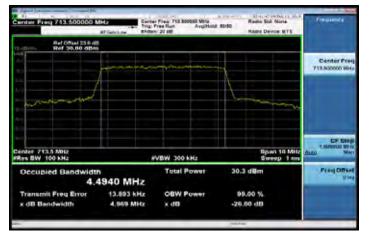
Band12_5MHz_QPSK_25_0_LowCH23035-701.5



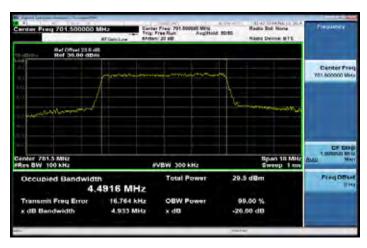
Band12 5MHz QPSK 25 0 MidCH23095-707.5



Band12_5MHz_QPSK_25_0_HighCH23155-713.5



Band12_5MHz_16QAM_25_0_LowCH23035-701.5



Band12 5MHz 16QAM 25 0 MidCH23095-707.5



Band12_5MHz_16QAM_25_0_HighCH23155-713.5



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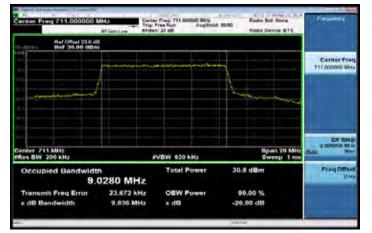
Band12_10MHz_QPSK_50_0_LowCH23060-704



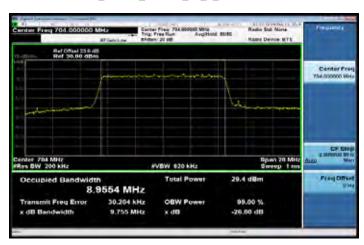
Band12_10MHz_QPSK_50_0_MidCH23095-707.5



Band12_10MHz_QPSK_50_0_HighCH23130-711



Band12_10MHz_16QAM_50_0_LowCH23060-704



Band12_10MHz_16QAM_50_0_MidCH23095-707.5



Band12_10MHz_16QAM_50_0_HighCH23130-711



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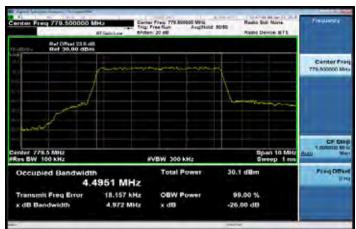


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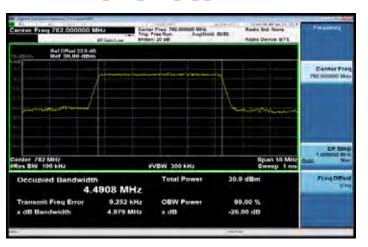
Band13_5MHz_QPSK_25_0_LowCH23205-779.5



Band13_5MHz_16QAM_25_0_LowCH23205-779.5



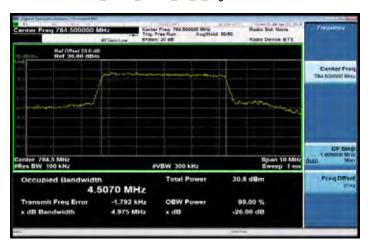
Band13 5MHz QPSK 25 0 MidCH23230-782



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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Band13_10MHz_QPSK_50_0_MidCH23230-782



Band13_10MHz_16QAM_50_0_MidCH23230-782



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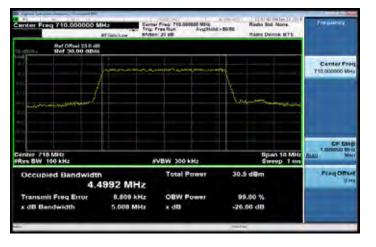


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Band17_5MHz_QPSK_25_0_LowCH23755-706.5



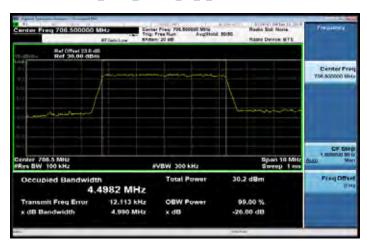
Band17 5MHz QPSK 25 0 MidCH23790-710



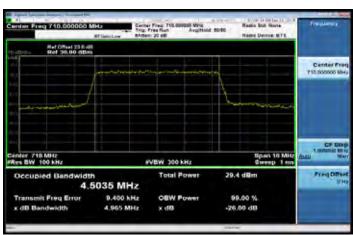
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Band17_5MHz_16QAM_25_0_LowCH23755-706.5



Band17_5MHz_16QAM_25_0_MidCH23790-710



Band17_5MHz_16QAM_25_0_HighCH23825-713.5



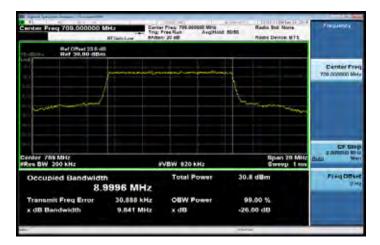
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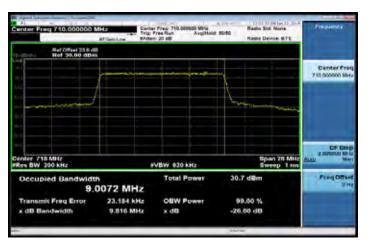
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Band17_10MHz_16QAM_50_0_LowCH23780-709



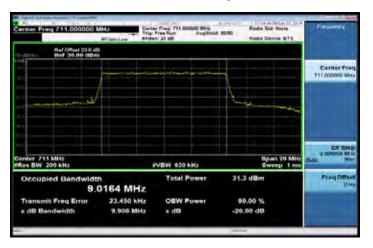
Band17 10MHz QPSK 50 0 MidCH23790-710



Band17_10MHz_16QAM_50_0_MidCH23790-710



Band17_10MHz_QPSK_50_0_HighCH23800-711



Band17_10MHz_16QAM_50_0_HighCH23800-711



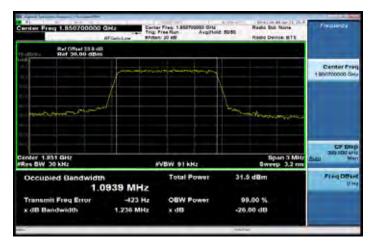
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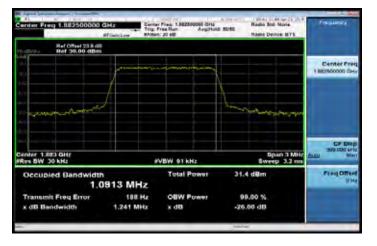


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Band25_1_4MHz_QPSK_6_0_LowCH26047-1850.7



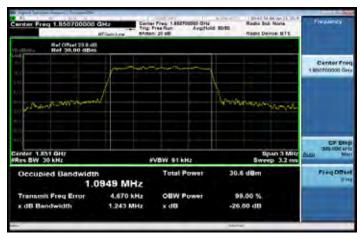
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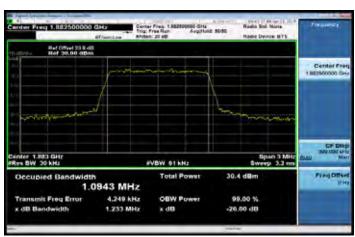
Band25_1_4MHz_QPSK_6_0_HighCH26683-1914.3



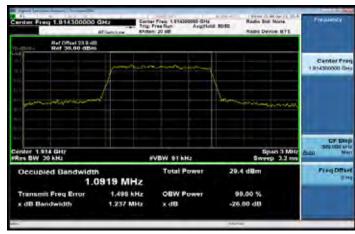
Band25_1_4MHz_16QAM_6_0_LowCH26047-1850.7



Band25_1_4MHz_16QAM_6_0_MidCH26365-1882.5



Band25_1_4MHz_16QAM_6_0_HighCH26683-1914.3



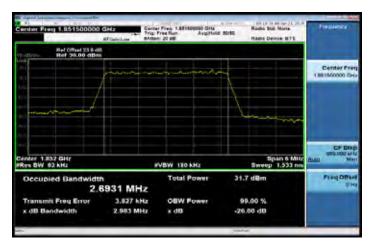
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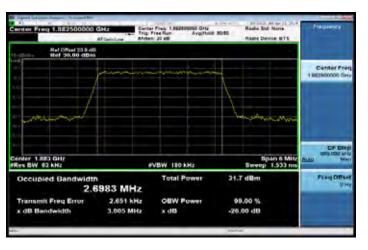
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Band25_3MHz_16QAM_15_0_LowCH26055-1851.5



Band25_3MHz_QPSK_15_0_MidCH26365-1882.5



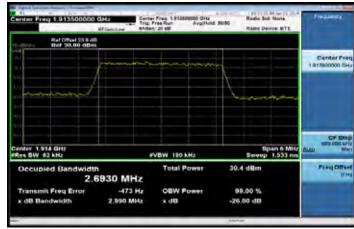
Band25 3MHz 16QAM 15 0 MidCH26365-1882.5



Band25_3MHz_QPSK_15_0_HighCH26675-1913.5



Band25_3MHz_16QAM_15_0_HighCH26675-1913.5



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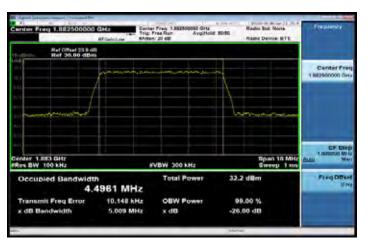
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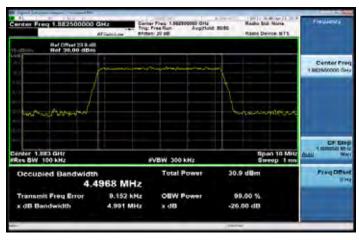
Band25_5MHz_16QAM_25_0_LowCH26065-1852.5



Band25_5MHz_QPSK_25_0_MidCH26365-1882.5



Band25 5MHz 16QAM 25 0 MidCH26365-1882.5



Band25_5MHz_QPSK_25_0_HighCH26665-1912.5



Band25_5MHz_16QAM_25_0_HighCH26665-1912.5



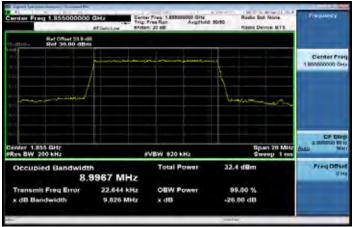
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Band25_10MHz_QPSK_50_0_LowCH26090-1855



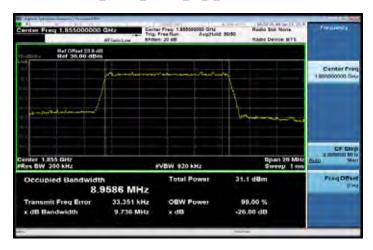
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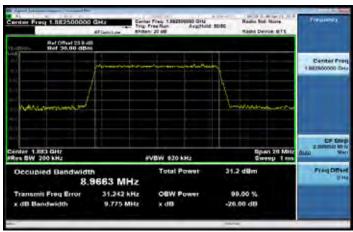
Band25_10MHz_QPSK_50_0_HighCH26640-1910



Band25_10MHz_16QAM_50_0_LowCH26090-1855



Band25 10MHz 16QAM 50 0 MidCH26365-1882.5



Band25_10MHz_16QAM_50_0_HighCH26640-1910



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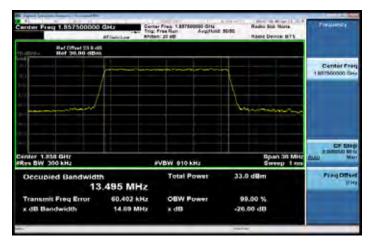
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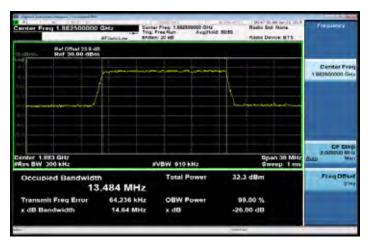


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Band25_15MHz_QPSK_75_0_LowCH26115-1857.5



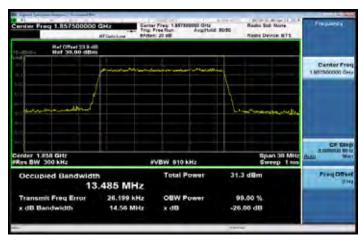
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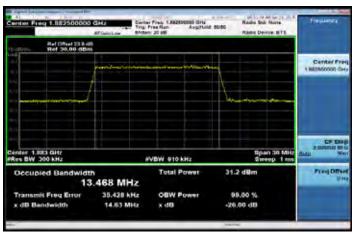
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Band25_15MHz_16QAM_75_0_LowCH26115-1857.5



Band25_15MHz_16QAM_75_0_MidCH26365-1882.5



Band25_15MHz_16QAM_75_0_HighCH26615-1907.5



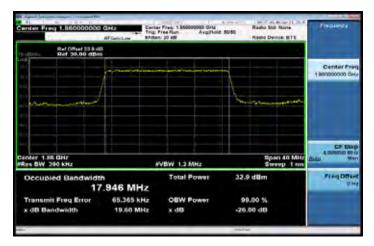
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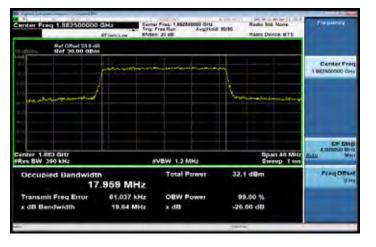


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Band25_20MHz_QPSK_100_0_LowCH26140-1860



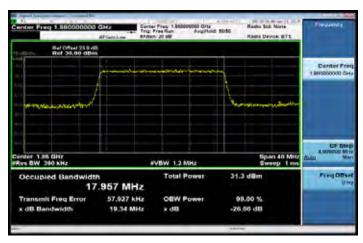
Band25_20MHz_QPSK_100_0_MidCH26365-1882.5



Band25_20MHz_QPSK_100_0_HighCH26590-1905



Band25_20MHz_16QAM_100_0_LowCH26140-1860



Band25 20MHz 16QAM 100 0 MidCH26365-1882.5



Band25_20MHz_16QAM_100_0_HighCH26590-1905



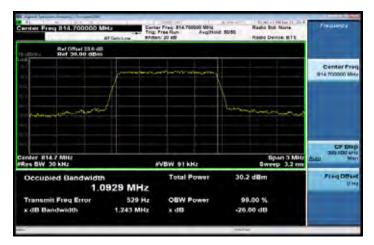
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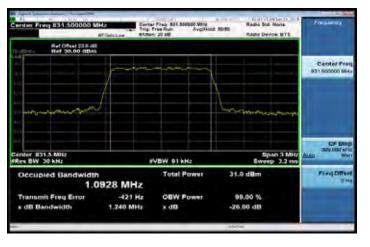


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Band26_1_4MHz_QPSK_6_0_LowCH26697



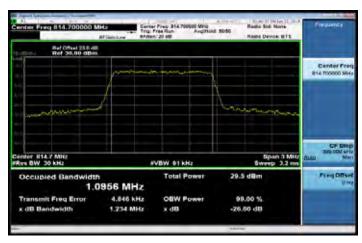
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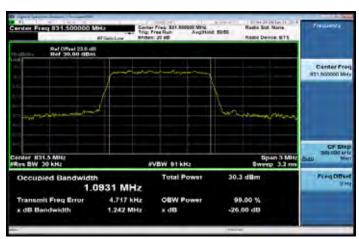
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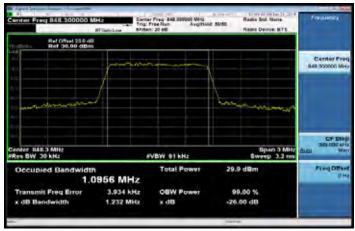
Band26_1_4MHz_16QAM_6_0_LowCH26697



Band26_1_4MHz_16QAM_6_0_MidCH26865



Band26_1_4MHz_16QAM_6_0_HighCH27033



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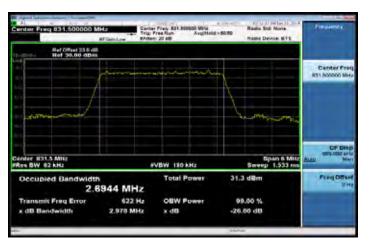
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Band26_3MHz_16QAM_15_0_LowCH26705



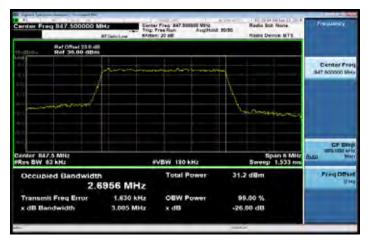
Band26 3MHz QPSK 15 0 MidCH26865



Band26_3MHz_16QAM_15_0_MidCH26865



Band26_3MHz_QPSK_15_0_HighCH27025



Band26_3MHz_16QAM_15_0_HighCH27025



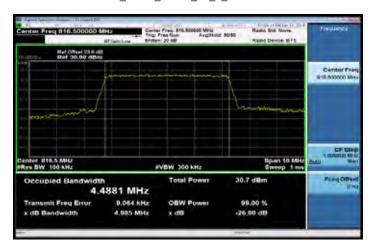
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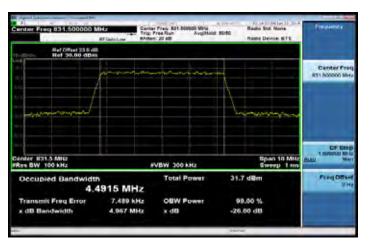
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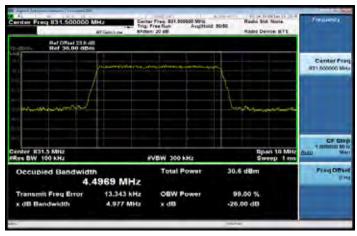
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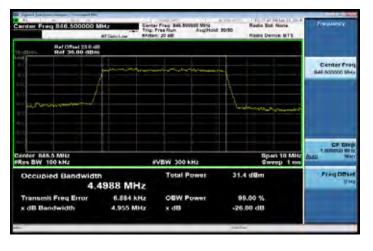
Band26 5MHz QPSK 25 0 MidCH26865



Band26_5MHz_16QAM_25_0_MidCH26865



Band26_5MHz_QPSK_25_0_HighCH27015



Band26_5MHz_16QAM_25_0_HighCH27015



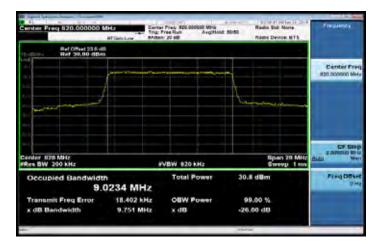
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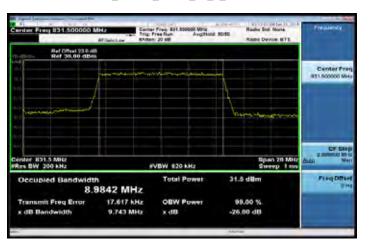
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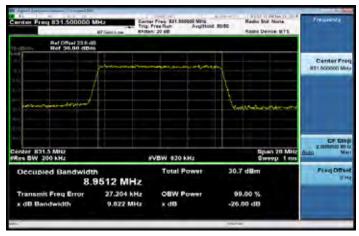
Band26_10MHz_16QAM_50_0_LowCH26750



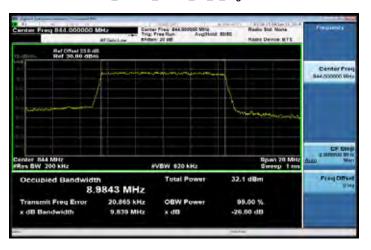
Band26_10MHz_QPSK_50_0_MidCH26865



Band26_10MHz_16QAM_50_0_MidCH26865



Band26_10MHz_QPSK_50_0_HighCH26990



Band26_10MHz_16QAM_50_0_HighCH26990



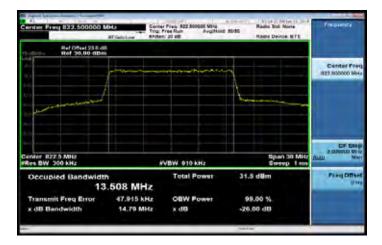
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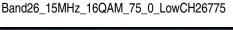


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Band26_15MHz_QPSK_75_0_LowCH26775

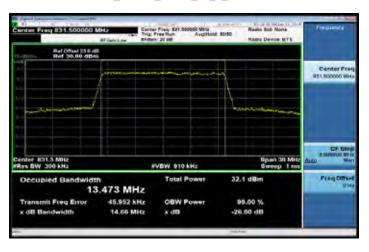


Band26_15MHz_QPSK_75_0_MidCH26865

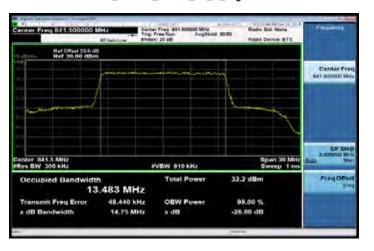




Band26_15MHz_16QAM_75_0_MidCH26865



Band26_15MHz_QPSK_75_0_HighCH26965



Ref Offset 23 ft -Ref 30,00 dB Center Fre F 831.5 MHz IVBW 910 KHZ 31.1 dBe 13,455 MHz 24.013 kHz 14.58 MHz 99.00 % -26.00 dB x dB Bandwidth x dB

Band26_15MHz_16QAM_75_0_HighCH26965



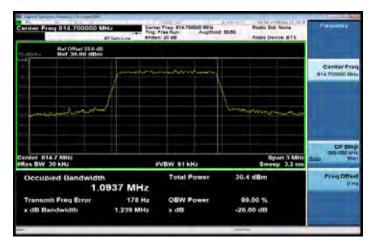
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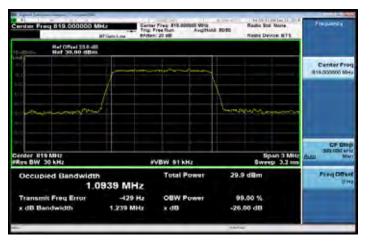


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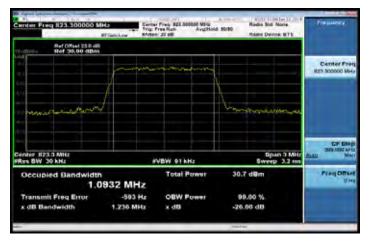
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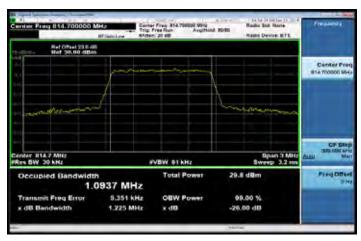
Part 90_Band26_1_4MHz_QPSK_6_0_MidCH26740



Part 90_Band26_1_4MHz_QPSK_6_0_HighCH26783



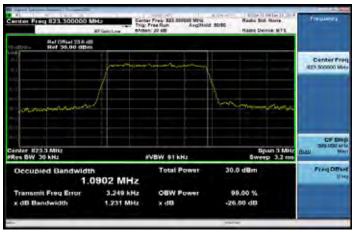
Part 90_Band26_1_4MHz_16QAM_6_0_LowCH26697



Part 90_Band26_1_4MHz_16QAM_6_0_MidCH26740



Part 90_Band26_1_4MHz_16QAM_6_0_HighCH26783



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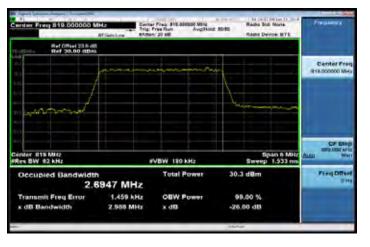


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Part 90_Band26_3MHz_QPSK_15_0_LowCH26705



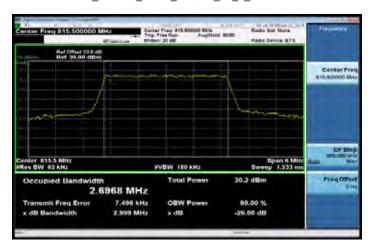
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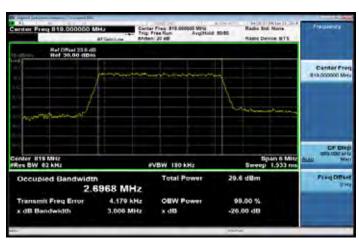
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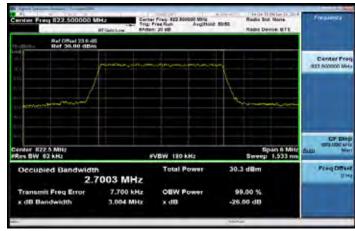
Part 90_Band26_3MHz_16QAM_15_0_LowCH26705



Part 90_Band26_3MHz_16QAM_15_0_MidCH26740



Part 90_Band26_3MHz_16QAM_15_0_HighCH26775



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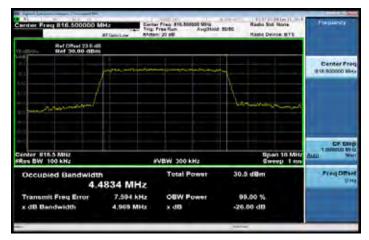


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Part 90_Band26_5MHz_QPSK_25_0_LowCH26715



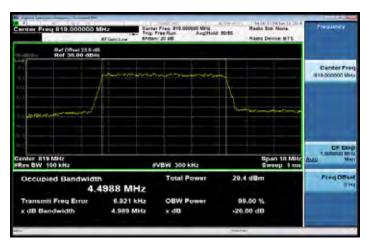
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Part 90_Band26_5MHz_QPSK_25_0_MidCH26740



Part 90_Band26_5MHz_16QAM_25_0_MidCH26740



Part 90_Band26_5MHz_QPSK_25_0_HighCH26765



Part 90_Band26_5MHz_16QAM_25_0_HighCH26765



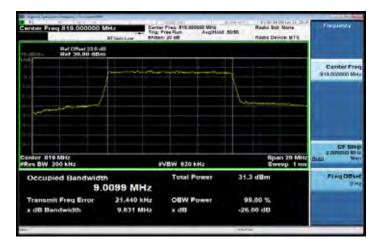
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Part 90_Band26_10MHz_QPSK_50_0_MidCH26740



Band30_5MHz_QPSK_25_0_MidCH27710



Part 90_Band26_10MHz_16QAM_50_0_MidCH26740



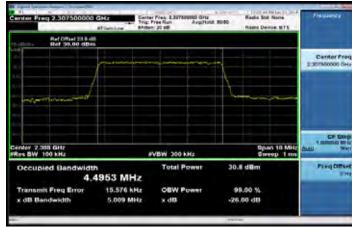
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Band30_5MHz_QPSK_25_0_LowCH27685



Band30_5MHz_16QAM_25_0_LowCH27685



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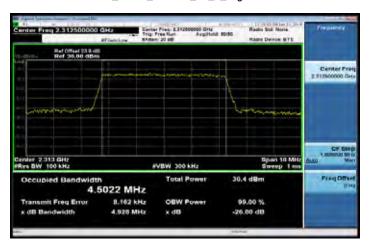
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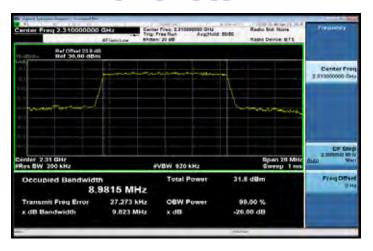
Band30_10MHz_16QAM_50_0_MidCH27710



Band30_5MHz_16QAM_25_0_HighCH27735



Band30_10MHz_QPSK_50_0_MidCH27710



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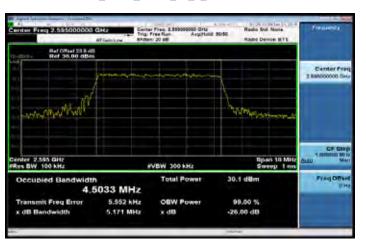
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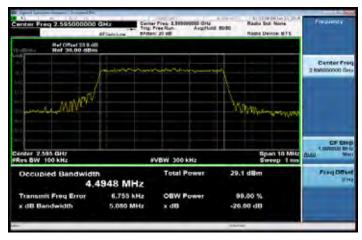
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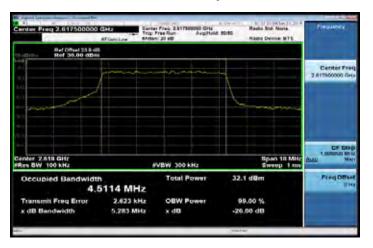
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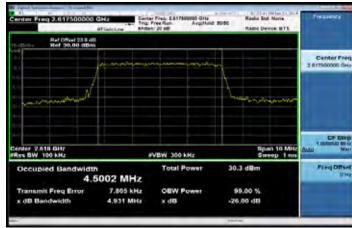
Band38_5MHz_16QAM_25_0_MidCH38000-2595



Band38_5MHz_QPSK_25_0_HighCH38225-2617.5



Band38_5MHz_16QAM_25_0_HighCH38225-2617.5



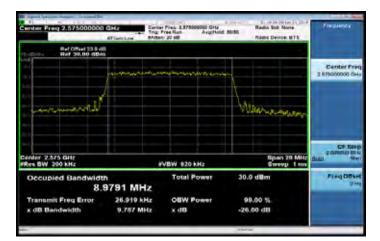
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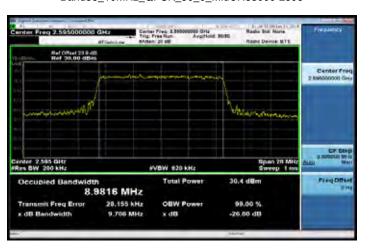
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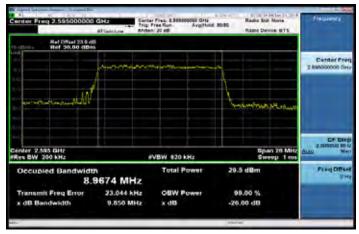
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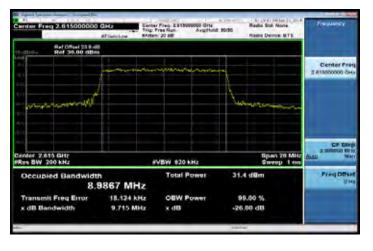
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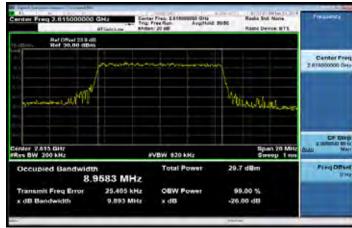
Band38 10MHz 16QAM 50 0 MidCH38000-2595



Band38_10MHz_QPSK_50_0_HighCH38200-2615



Band38_10MHz_16QAM_50_0_HighCH38200-2615



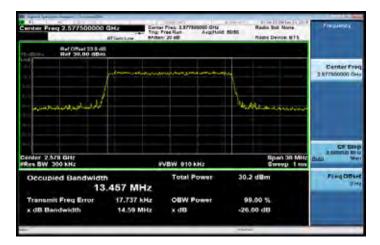
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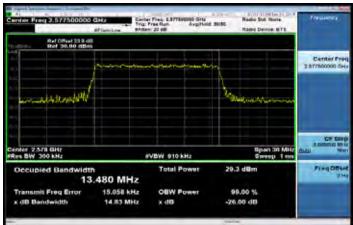


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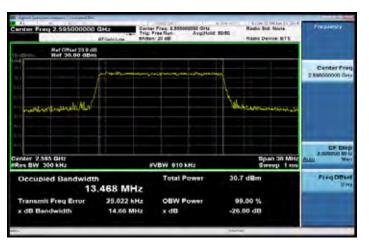
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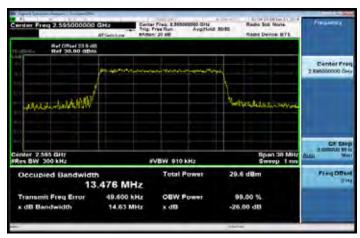
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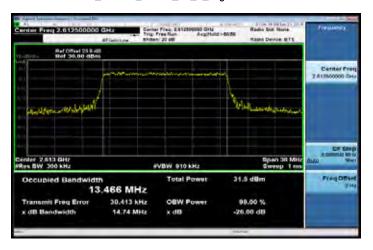
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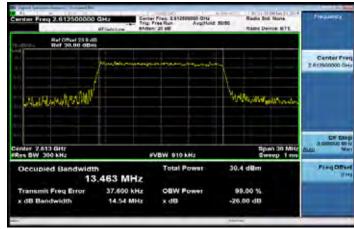
Band38_15MHz_16QAM_75_0_MidCH38000-2595



Band38_15MHz_QPSK_75_0_HighCH38175-2612.5



Band38_15MHz_16QAM_75_0_HighCH38175-2612.5



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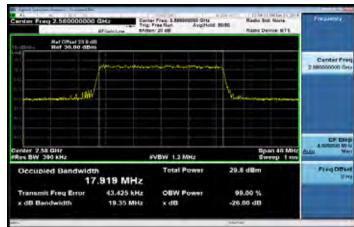


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Band38_20MHz_QPSK_100_0_LowCH37850-2580



Band38_20MHz_16QAM_100_0_LowCH37850-2580



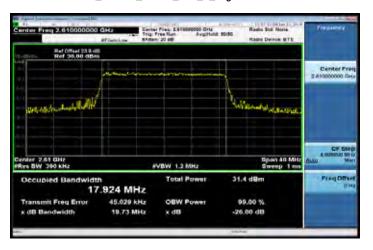
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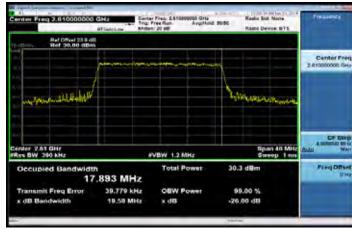
Band38 20MHz 16QAM 100 0 MidCH38000-2595



Band38_20MHz_QPSK_100_0_HighCH38150-2610



Band38_20MHz_16QAM_100_0_HighCH38150-2610



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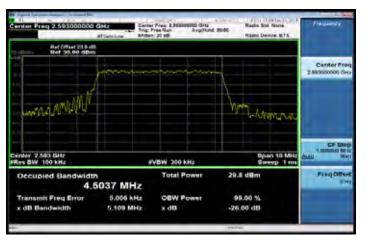
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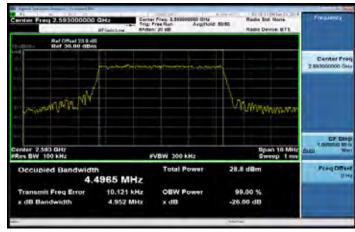
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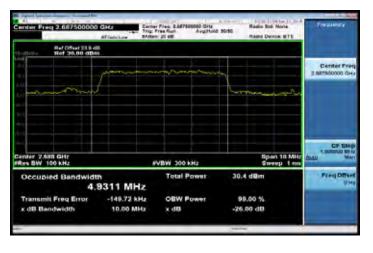
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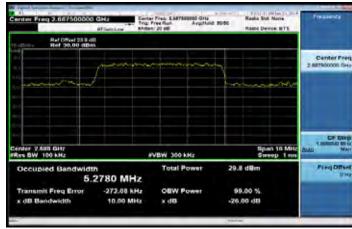
Band41 5MHz 16QAM 25 0 MidCH40620



Band41_5MHz_QPSK_25_0_HighCH41565



Band41_5MHz_16QAM_25_0_HighCH41565



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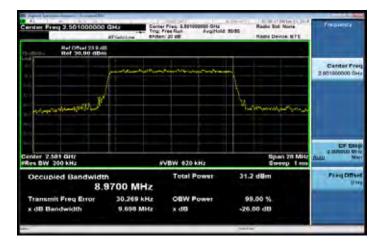
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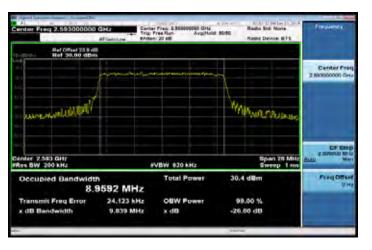
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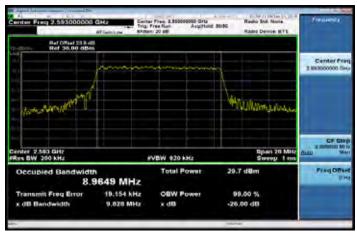
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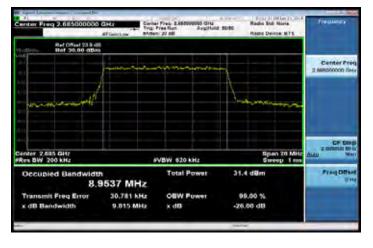
Band41 10MHz QPSK 50 0 MidCH40620



Band41 10MHz 16QAM 50 0 MidCH40620



Band41_10MHz_QPSK_50_0_HighCH41540



Band41_10MHz_16QAM_50_0_HighCH41540



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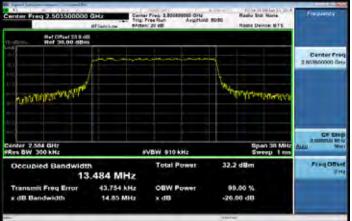
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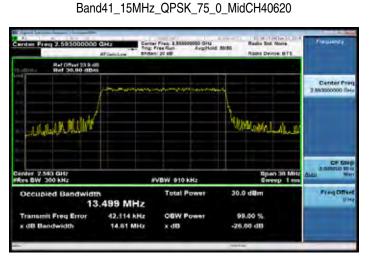
t (886-2) 2299-3279



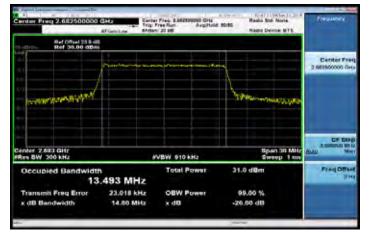
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Band41_15MHz_QPSK_75_0_LowCH39725

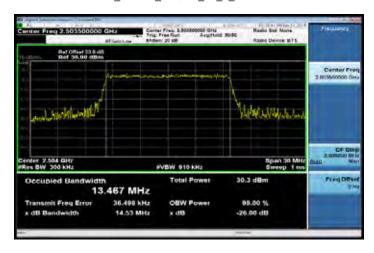




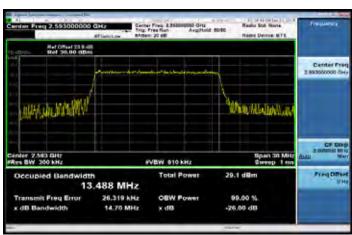
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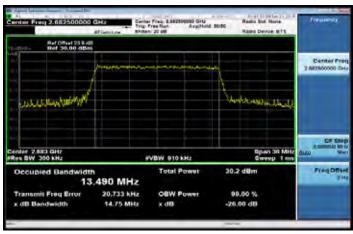
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Band41_15MHz_16QAM_75_0_MidCH40620



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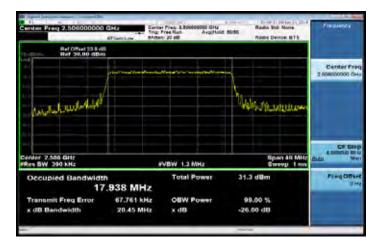
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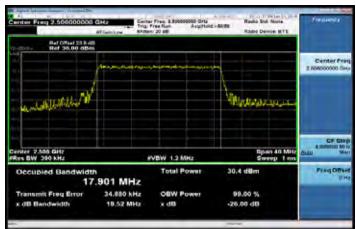


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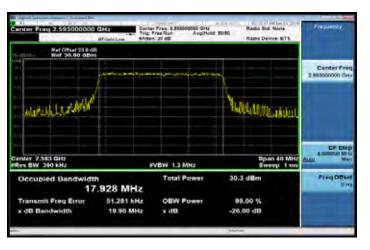
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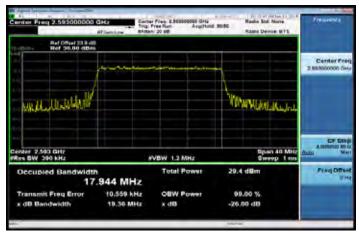
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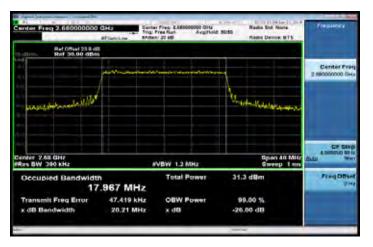
Band41 20MHz QPSK 100 0 MidCH40620



Band41 20MHz 16QAM 100 0 MidCH40620



Band41_20MHz_QPSK_100_0_HighCH41490



Band41_20MHz_16QAM_100_0_HighCH41490



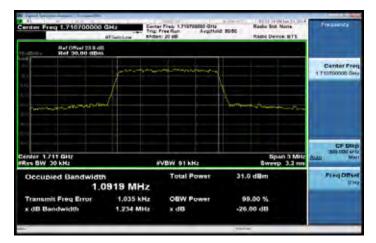
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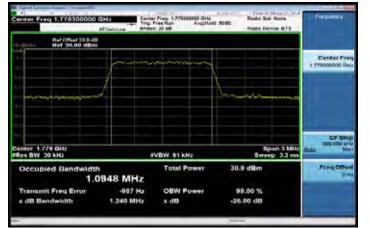
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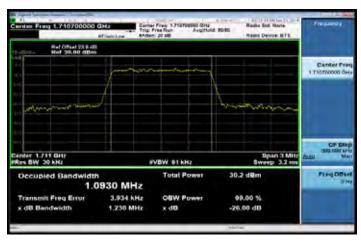
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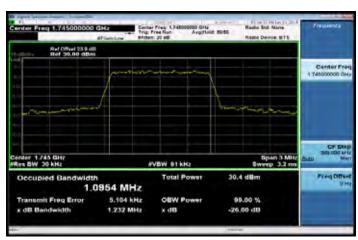
Band66_1_4MHz_QPSK_6_0_HighCH132665



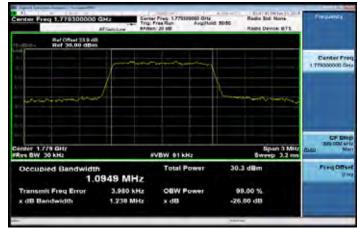
Band66_1_4MHz_16QAM_6_0_LowCH131979



Band66_1_4MHz_16QAM_6_0_MidCH132322



Band66_1_4MHz_16QAM_6_0_HighCH132665



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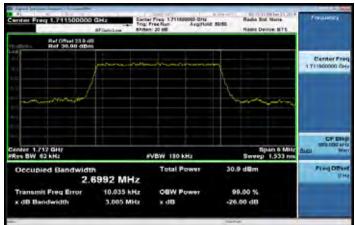


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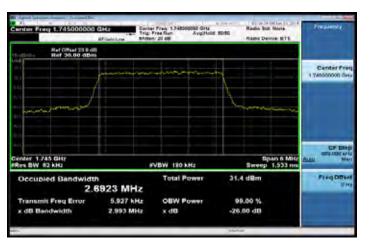
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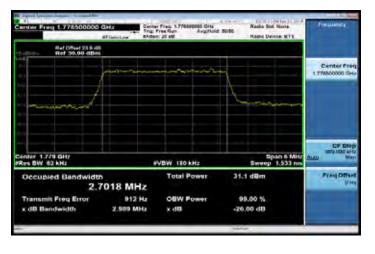
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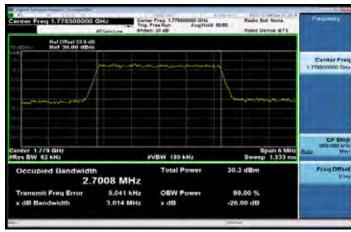
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Band66_3MHz_QPSK_15_0_HighCH132657



Band66_3MHz_16QAM_15_0_HighCH132657



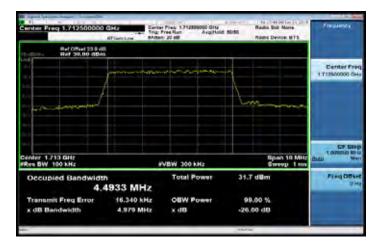
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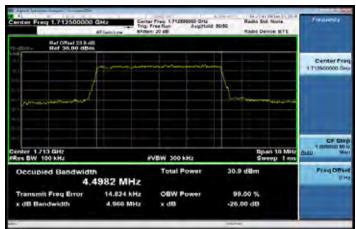


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Band66_5MHz_QPSK_25_0_LowCH131997



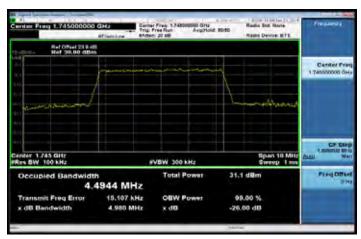
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Band66 5MHz QPSK 25 0 MidCH132322



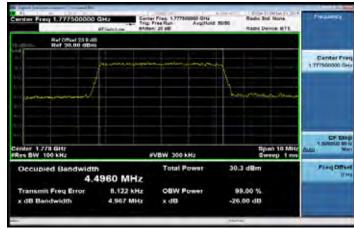
Band66_5MHz_16QAM_25_0_MidCH132322



Band66_5MHz_QPSK_25_0_HighCH132647



Band66_5MHz_16QAM_25_0_HighCH132647



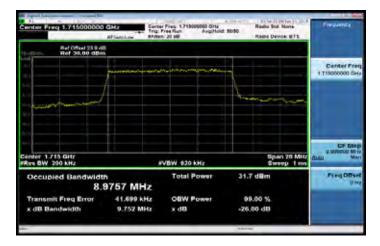
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Band66_10MHz_QPSK_50_0_LowCH132022



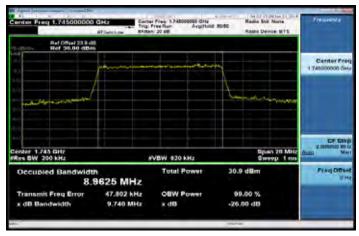


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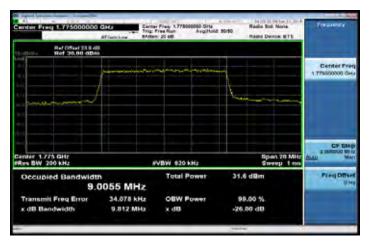
Band66 10MHz QPSK 50 0 MidCH132322



Band66_10MHz_16QAM_50_0_MidCH132322



Band66_10MHz_QPSK_50_0_HighCH132622



Band66_10MHz_16QAM_50_0_HighCH132622



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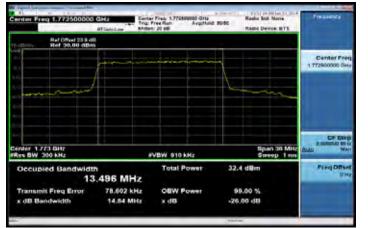
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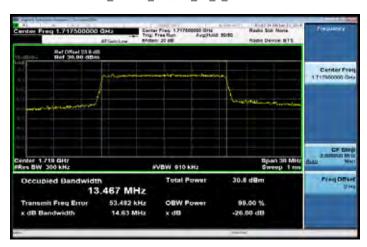
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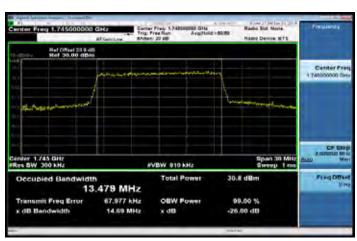
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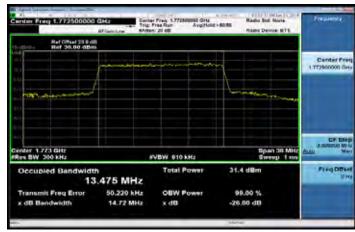
Band66_15MHz_16QAM_75_0_LowCH132047



Band66_15MHz_16QAM_75_0_MidCH132322



Band66_15MHz_16QAM_75_0_HighCH132597



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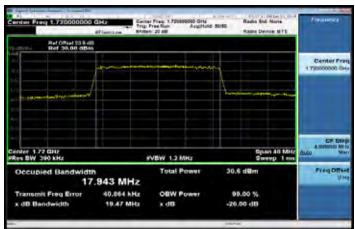


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Band66_20MHz_QPSK_100_0_LowCH132072



Band66_20MHz_16QAM_100_0_LowCH132072



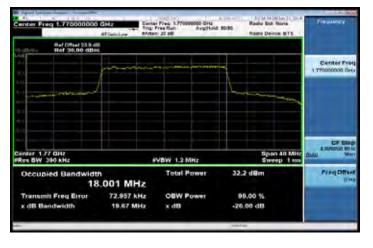
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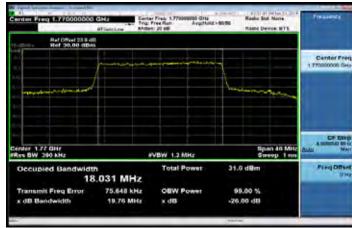
Band66_20MHz_16QAM_100_0_MidCH132322



Band66_20MHz_QPSK_100_0_HighCH132572



Band66_20MHz_16QAM_100_0_HighCH132572



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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 that 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 nstrumentation 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 Log10(f/6.1) decibels or 50 + 10 Log10(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 + 10Log10(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.

Table 2 — Unwanted Emissions for Mobile, Portable and Low-Power Fixed Subscriber **Equipment**

Frequency (MHz)	Attenuation (dB)
<2200	$43 + 10 \log_{10}(p)$
2200 - 2288	$70 + 10 \log_{10}(p)$
2288 - 2292	$67 + 10 \log_{10}(p)$
2292 - 2296	$61 + 10 \log_{10}(p)$
2296 - 2300	$55 + 10 \log_{10}(p)$
2300 - 2305	$43 + 10 \log_{10}(p)$
2305 - 2320	$43 + 10 \log_{10}(p)^{\text{Note}}$
2320 - 2324	$55 + 10 \log_{10}(p)$
2324 - 2328	$61 + 10 \log_{10}(p)$
2328 - 2337	$67 + 10 \log_{10}(p)$
2337 - 2341	$61 + 10 \log_{10}(p)$
2341 - 2345	$55 + 10 \log_{10}(p)$
2345 - 2360	$43 + 10 \log_{10}(p)^{\text{Note}}$
2360 - 2365	$43 + 10 \log_{10}(p)$
2365 - 2395	$70 + 10 \log_{10}(p)$
>2395	$43 + 10 \log_{10}(p)$

Note: Measured at the edges of the highest and lowest frequency range(s) in which the equipment is designed to operate. See Section 5.2 for the permitted frequency ranges for various equipment types.

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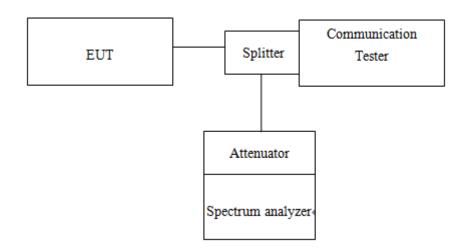
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9.2. Test SET-UP



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 ≥ 1% EBW.
- 3. Allow trace to fully stabilize
- 4. Repeat above procedures until all default test channel measured were complete.

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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	00100A1F1A19 5C	RF01	12/24/2017	12/23/2018	
Temperature Chamber	TERCHY	MHK-120LK	1020582	06/13/2017	06/12/2018	
DC Block	PASTERNACK	PE8210	RF29	12/24/2017	12/23/2018	
Splitter	RF-LAMBAD	RFLT2W1G18G	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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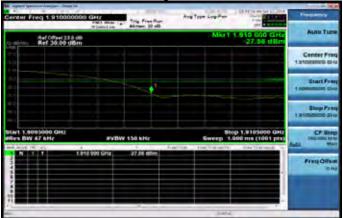


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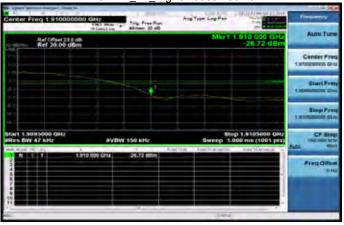
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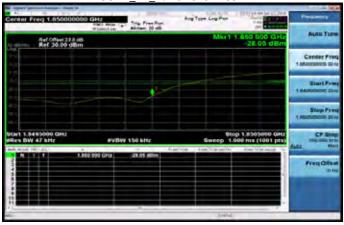
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WCDMA B2 HighCH9538-1907.6



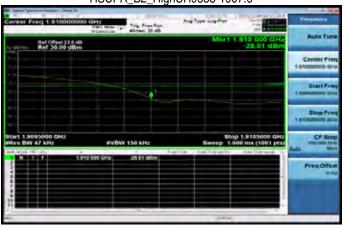
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HSDPA B2 LowCH9262-1852.4



HSUPA_B2_HighCH9538-1907.6



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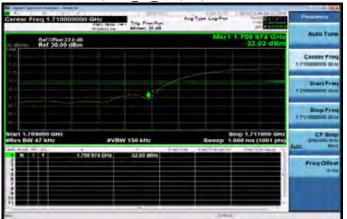
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WCDMA B4 LowCH1312-1712.4



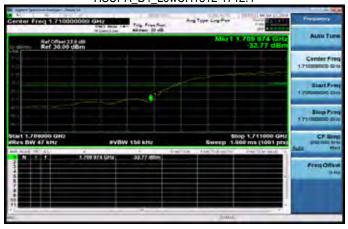
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WCDMA B4 HighCH1513-1752.6



HSUPA B4 LowCH1312-1712.4



HSDPA B4 LowCH1312-1712.4



HSUPA_B4_HighCH1513-1752.6



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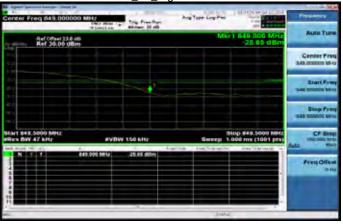
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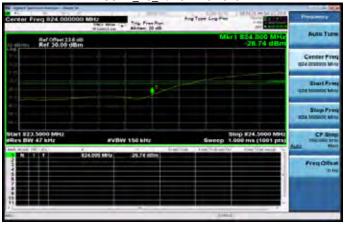
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WCDMA B5 HighCH4233-846.6



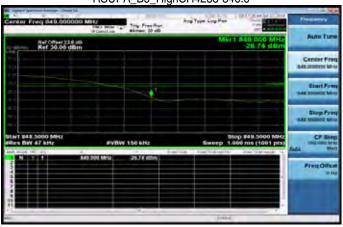
HSUPA B5 LowCH4132-826.4



HSDPA B5 LowCH4132-826.4



HSUPA_B5_HighCH4233-846.6



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Band2_1_4MHz_QPSK_1_0_LowCH18607-1850.7



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_3MHz_QPSK_15_0_LowCH18615-1851.5



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_0_LowCH18650-1855



Band2_10MHz_QPSK_50_0_HighCH19150-1905



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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Band2_15MHz_QPSK_75_0_LowCH18675-1857.5



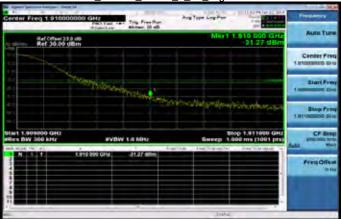
Band2_20MHz_QPSK_1_0_LowCH18700-1860



Band2_15MHz_QPSK_75_0_HighCH19125-1902.5



Band2_20MHz_QPSK_1_99_HighCH19100



Band2 20MHz QPSK 1 0 LowCH18700



Band2_20MHz_QPSK_1_99_HighCH19100-1900



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